ARCHITECTURAL
RAILING SYSTEMS

An ISO9001:2008 Certified Company

C.R. LAURENCE COMPANY
Worldwide Manufacturer and Supplier
Glazing, Architectural, Railing, Construction, Industrial, and Automotive Supplies

crlaurence.com   usalum.com   crl-arch.com

CRL ®
US ALUMINUM

TAPER-LOC X
DRY GLAZE RAILING SYSTEM

What's **NEW!** in This Catalog

Many of our customers have been using high quality C.R. Laurence products for years now, and may believe they know all we have to offer. Actually our product line is continually evolving with the addition of **NEW** products. It is our intention to make sure you are happy with the products you have used for years, and at the same time find added opportunities for your business through the use of our newest offerings.

Shown on this page and the next, are just *some* of the **NEW** products featured in this HR18 Catalog. Please take a few minutes to review these products. We note page number references for each item so that you may view them in greater detail. And as always, this entire product line can be viewed at **crlaurence.com/railings**.

CRL Adjustable TAPER-LOC® Dry Glaze Railing System

NEW!

PAGES 116B to 117B

- Up to 3/4" (19 mm) Vertical Adjustment of Glass Panels at 42" (1067 mm) Height
- Dry Glazing Means Installation Time is Reduced by 50 Percent Because There's No Mixing or Clean-Up of Messy Cement
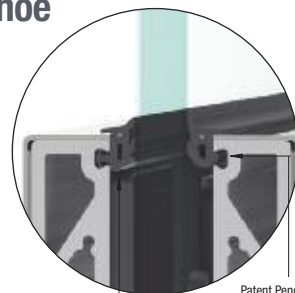
TAPER-LOC XAC
DRY GLAZE RAILING SYSTEM

CRL TAPER-LOC® Safety Seal for Monolithic and Laminated Tempered Glass Base Shoe

NEW!

PAGE 118B

- Helps Prevent Unsafe Leaning Over Railing During Installs
- "Drop-Side" Seal Installs in Base Shoe Prior to Glass

SAFETY FIRST! SAFETY SEAL PREVENTS INSTALLER FROM HAVING TO LEAN OVER THE GLASS RAILING TO ROLL IN THE GASKET

Safety Seal Greatly Improves Safety for the Glazier and Installation Speed. Installed on "Drop-Side" Before the Glass is Installed.

Patent Pending Base Shoe Detail Enables use of the Safety Seal Feature

CRL Monolithic and Laminated Tempered "Rail Glass"

NEW!

PAGES 137B, 289B, 400B, 462B, and 548B

- Clear Tempered and Low Iron (Starphire®) Glass Types Available
- All Glass Panels Ship Cut and Tempered, Ready to Install
- Custom Sizes, Fabrication, Drilling, and Edge Work Available
- Proudly Produced in the U.S.A.

USE MONOLITHIC TEMPERED GLASS or **USE LAMINATED TEMPERED GLASS**
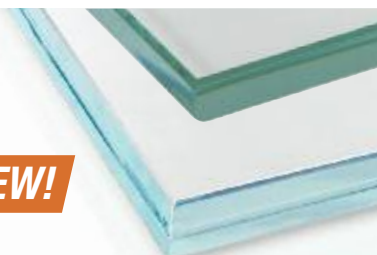
CRL GRS Glass Railing Base Shoe

NEW!

PAGES 143B, 154B, 158B, 162B, 166B, and 170B

- New Environmentally Friendly (Green Product) Models for Both Monolithic and Laminated Tempered Glass
- Approximately 30% Lighter Than CRL's Traditional Base Shoe
- New Square and Heavy-Duty Base Shoes Available

CRL GREEN PRODUCT

CRL Roll Formed Cap Rails for Monolithic and Laminated Tempered Glass

NEW!

PAGES 200B to 205B

- For 1/2" to 27/32" (12 to 21.52 mm) Tempered Glass
- 316 Grade Stainless Steel
- 19'-8" (6 m) Stock Lengths Available in Two Architectural Finishes
- Designed for Interior or Exterior Applications

CRL Juliet Balcony Railing System

NEW!

PAGE 276B

- Ideal for Guard Rail Applications When No Space for an Exterior Balcony is Available, and an Inward-Swinging French Door is Installed
- New Construction or Retrofit; Commercial and Residential
- Round and Square Profiles Available in 316 Grade Brushed Stainless Steel

go to crlaurence.com to search for
railings   Search
or enter the Catalog Number for complete product information

TOLL Phone: (800) 421-6144
FREE Fax: (800) 262-3299
From Anywhere in the U.S. or Canada

CRL US ALUMINUM

CRL Stainless Steel P-Series Railing Post Kits and Railing Posts

NEW!

QUICK PICK
RED-E Ship

PAGES 277B-304B

- Railing Posts Designed for Interior or Exterior Hand Rail and Guard Rail Applications
- Complete "Off-The-Shelf" Stock Kits Including Your Choice of Glass Fittings (P7 Series Posts Only)
- Customize Your Own Post System From a Choice of Glass Fittings and Components (All P-Series Posts)
- Standard 42" (1067 mm) Height, With Custom Heights and Styles Available on Special Order

CRL Glass Mounted, Wall Mounted, and Post Mounted Hand Rail Brackets

NEW!

PAGES 360B-370B

- Ready-To-Install for 1-1/2" to 2" (38 to 51 mm) Diameter Hand Rail Tubing
- Two Attractive Architectural Finishes Available
- 316 Grade Stainless Steel
- Suitable for 1/2" to 1-1/16" (12 to 25.52 mm) Glass Thickness
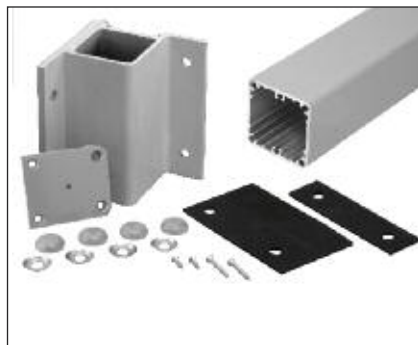- Several Styles to Choose From

CRL Fascia Mount Post Kits and Mounting Brackets

NEW!

PAGES 407B-411B, 432B-436B

- Aluminum Railing Systems in 6005 Alloy Pre-Treated Aluminum/T5 Temper
- Convenient Standard Kits Designed to Mount to Most Any Substrate
- Fascia Mount Brackets Also Available for Angled Installations
- Seven Attractive Colors, Plus Mill Aluminum

CRL Point Supported Mini Posts

NEW!

PAGE 463B

- Provides Frameless 'All-Glass' Look
- Excellent for Windscreens, Pool Fencing, and Sound Walls
- 316 Grade Stainless Steel
- For Use With 1/2" (12 mm) Monolithic Tempered Glass and 9/16" (13.52 mm) Laminated Tempered Glass
- Two Standard Stainless Steel Finishes, With Custom Powder Paint Finishes Upon Request

CRL Polaris Series Gate Hinges

NEW!

PAGE 528B

- "Soft-Close" Feature Engages Near End of Opening and Closing of the Gate
- Glass-to-Wall, Glass-to-Square Post, and 180 Degree Glass-to-Glass Models Available
- Constructed of Strong and Durable 2205 Grade Stainless Steel
- Adjustable Spring Tension Allows Flexibility in Closing Speed
- Available in Beautiful Polished Stainless Steel and Brushed Stainless Steel Finishes

CRL Custom Premium Formed Stainless Steel Gate Systems

NEW!

PAGE 534B

- Great for High End Pool Fencing or Barrier Applications
- Custom Made to Your Specifications
- Two Standard Architectural Finishes
- For Interior and Exterior Applications
- Available in 304 and 316 Grade Stainless Steel
- Gate Hinge and Lock Options Also Available

go to crlaurence.com to search for

railings | Search

101B

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CRL US ALUMINUM

Making Quality Products for Decades

In an era of offshore manufacturing and increased foreign competition, C.R. Laurence commits itself to producing top quality, American-made products. As a vertically integrated company with process control over everything from engineering to extrusions, fabrication to finishing, we have the experience and capability to produce high quality products on time at a competitive price. Thousands of best-in-class products are made in the United States in our ISO 9001:2008 certified manufacturing facilities, where fine craftsmanship meets state of the art technology. Our innovative systems are the product of an ongoing commitment to supporting American jobs and providing the finest architectural glazing systems on the market. To complement our robust U.S. capabilities and to better serve industries across the globe, we've expanded our manufacturing presence to an international capacity with plants located in Canada and Australia.

CRL U.S. ALUMINUM®
MANUFACTURED IN THE USA

- Advanced R&D, Rapid Customization, and Prototyping
- In-house Testing Laboratories
- User of Progressive ISO9001:2008 Manufacturing Processes

Top Metal Company

For five years in a row, CRL-U.S. Aluminum has been recognized as the leading manufacturer and supplier of metal glazing products in the United States and Canada. We attribute our leadership position to an unwavering commitment to designing, engineering, and manufacturing quality products while delivering exceptional customer service and project support.

C.R. Laurence Manufacturing Headquarters - Los Angeles, California

go to crlaurence.com to search for

manufacturing   Search

or enter the Catalog Number for complete product information

102B

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CRL U.S. ALUMINUM

CRL U.S. ALUMINUM®
MANUFACTURED IN THE USA

Rapid Customization Program for Short Lead Times

The goal of CRL's Rapid Customization Program is to achieve the shortest possible lead time on all CRL Manufactured Products, from sketch to quote to fabrication to delivery. This is done several ways, and an important factor is keeping the entire process "in-house". Allowing CRL Manufacturing to control such processes as drafting, modeling, raw material procurement, cutting optimization, high-speed fabrication, finishing, powder coating, batch painting, packaging, and shipping makes for efficient and speedy delivery of products to you.

CRL is ISO9001:2008 Certified

It all starts with ISO9001:2008 certification. We produce thousands of the items we supply in our ISO9001:2008 Certified manufacturing facilities. Our adherence to the strictest of standards reflects the commitment of our employees to provide the highest quality products.

State-of-the-Art Processes and Equipment

Industry requirements and customer needs are evolving. We recognize the need to remain current and have made substantial investments in our manufacturing capacity to keep pace. Our manufacturing facilities house the latest equipment and processes to deliver quality products with precision and efficiency every time. Our advanced capabilities include: precision waterjet and laser cutting systems, robotic arc welding automation, CNC routing, roll forming, and an automated powder coat line.

Innovative Technologies

CRL's highly trained staff uses the latest programs including Auto CAD and ANSYS Workbench to provide the best designs to send to our manufacturing plant. CRL is capable of rendering advanced 3D modeling using Autodesk's Inventor® program, along with the expanded Revit® capabilities that are now in production. Additionally, our manufacturing headquarters now supports modern 3D printing capabilities to produce ABS or PLA models to design and precision-engineer product solutions for various project applications.

Drafting and Engineering Services

C.R. Laurence's Drafting Division can produce material takeoffs and complete shop drawings that are submittal-ready. They can also produce fabrication drawings for applications for custom products and modified applications of standard systems. From napkin sketches to fully realized concepts, C.R. Laurence can build it. CRL's dedicated Engineering Department works with you to review designs and job plans to address feasibility, safety concerns, and possible alternate solutions.

Award Winning, Certified Designs and Products

Just because we say our products are all top quality doesn't make it so. However, when those recognized as setting the standards for quality say we make the best, then that really means something. We've got the credentials to back that claim.

ARCHITECTURAL RECORD
PRODUCT REPORTS 2011

Inventor and Revit are registered trademarks of Autodesk, Inc.

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103B

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CRL U.S. ALUMINUM®

CRL WORLD WIDE DISTRIBUTION NETWORK

MORE *CHOICES*
crlaurence.com/locations

Localized Product Availability and Streamlined Distribution To Meet Your Schedule

Over 40 Locations in Six Countries Across Three Continents

A Workforce of Over 1,700 Strong, and Continually Growing

With Service Centers in key markets around the world, C.R. Laurence's centralized distribution network provides customers worldwide the quality products and services they need. Over the past few decades, CRL has grown from a single Los Angeles location to include Service Centers in the United States, Canada, Australia, the United Kingdom, Germany, and Denmark.

CRL's Canadian Headquarters in the Toronto, Ontario area

CRL-U.S. Aluminum New York Metropolitan Area Super Center and Showroom

CRL's Global Headquarters in the Los Angeles, California area

U.S. Aluminum Headquarters in the Waxahachie, Texas area

Local Stock Inventories, Short Lead Times, and Prompt Deliveries

Meeting customers' needs and providing shorter lead times has been a priority since day one. Architects and installers never have to compromise their design vision due to product lead times or inventory availability. CRL has done this by investing in its employees and streamlining operations and production methods through an ever-expanding network of Service Centers.

This innovative and effective network has made it easier for customers to access CRL products wherever they are. CRL and CRL-U.S. Aluminum Service Centers are strategically located in or near major metropolitan areas to serve customers in person. This allows for local product manufacturing and specialized technical support to regional customers.

As C.R. Laurence Company's world wide presence and influence continues to grow, so will the number of strategically positioned Service Centers, ultimately giving CRL customers everything they need faster and easier.

To find contact information, driving directions, and hours of operation for the nearest CRL Service Center, visit **crlaurence.com/locations**.

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CRL US ALUMINUM

Localized Product Availability and Streamlined Distribution To Meet Your Schedule

CRL's European Headquarters
in the Manchester, England area

CRL's Service Center in the
Copenhagen, Denmark area

CRL's Service Center in the
Dusseldorf, Germany area

CRL's European Stone Division
in the Manchester, England area

Building a Network

Each of our Service Centers is connected to Corporate Headquarters through our computer system, which monitors and updates inventory levels with the arrival of each new delivery truck and the shipment of each customer order. Service Centers receive fresh inventory through our World Wide Transfer System so stock levels can remain high. This improves the percentage of your orders we can ship complete, and usually on the same day we receive them.

CRL Brings the Best to You

Operating on three continents allows us to bring brands to you that you may not otherwise have local access to. Our purchasing agents select quality products from vendors around the world, and because we have a world wide distribution network these products can be made available through any of our Service Centers.

CRL's Australian Headquarters
in the Sydney, New South Wales area

CRL's Service Center in the
Perth, Western Australia area

CRL's Australian Manufacturing and Service Center
in the Melbourne, Victoria area

To find contact information, driving directions, and hours of operation for the nearest CRL Service Center, visit **crlaurence.com/locations**.

go to crlaurence.com to search for

locations   Search

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105B

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CRL
US ALUMINUM

For Expert Technical Assistance With Your Architectural Railings Projects, Ask for Extension 7730

The CRL Railing Technical Sales Department is a full time staff trained in the proper design and installation of our Architectural Railing products. We work with architects and designers to create "solutions" specifically built to meet their needs. The latest computer assisted design technology is used to join quality materials and our experience in manufacturing with your ideas to give you what you want.

If our wide variety of standard size products won't fit your needs exactly, CRL can custom build to your specifications. Our manufacturing facility has a staff of engineers who will design a product that you can install with full confidence that it will meet your customer's needs in terms of performance and aesthetics.

Call **(800) 421-6144** from Anywhere in the U.S.
Call **(877) 421-6144** from Anywhere in Canada
Call **(323) 588-1281** from Outside the U.S. and Canada
Ask for Extension **7730**
Direct Fax **(866) 921-0532**
Direct e-mail **railings@crlaurence.com**

Let CRL Design and Engineer Your Next Railing Project

- Design and Development of Custom Products
- Product Management Service
- Auto Cad Drawings
- Shop Drawings
- Engineering
- Technical Support

Let CRL's Railing Technical Sales Team help you with your next railing project. Everyone at C.R. Laurence is dedicated to providing superior customer service, along with products and resources to keep our customers on the cutting edge of technology. We have added a dedicated Computer Aided Drafting (CAD) Department to our arsenal of Technical Sales and Engineering groups to assist you with drawing submittals and custom design work to land that special project.

A Key to the Icons Used Throughout This Catalog:

MORE CHOICES crlaurence.com = Links to the entire Product Line to which the original product belongs.

NEW! = Designates a new product introduced since our last Railing Hardware Catalog.

USE MONOLITHIC TEMPERED GLASS = Product is recommended to be used with monolithic tempered safety glass only.

USE LAMINATED TEMPERED GLASS = Product is recommended to be used with laminated tempered safety glass only.

CRL US ALUMINUM MANUFACTURED IN THE USA = Designed, Engineered, and Manufactured in the USA by C.R. Laurence Company.

CRL GREEN PRODUCT = Environmentally Friendly Product.

VIDEO = Instructional and informative video available online at **crlaurence.com**.

NO AIR FREIGHT = Product cannot ship via any type of air transport.

SPEC. DATA ONLINE = Spec. Data is available from Product Offer Page at **crlaurence.com**.

SDS ONLINE = Safety Data Sheets are available from the Product Offer Page at **crlaurence.com**.

ONLINE INSTALLATION RESOURCES = Installation instructions and/or fabrication details are available online at **crlaurence.com**.

ONLINE ARCHITECTURAL RESOURCES = More information is available from the Product Offer Page at **crlaurence.com**, such as SDS, Technical Drawings, Spec. Data, and 3-Part Specs.

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contact-us   Search
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106B

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CRL US ALUMINUM

Welcome to the C.R. Laurence Online Catalog

- Thousands of Pages of Quality Products and Helpful Information are Just Clicks Away, Any Time at Your Convenience
- It's the Best Way to Shop at CRL

What's the best way to shop at C.R. Laurence? Visit the Online Catalog at **crlaurence.com**. Our Online Catalog brings you thousands of pages from our many printed catalogs, all of them in full color, and linked to our ordering module so you can browse and shop at any time it's convenient. You can check prices, review stock levels, and get the most complete and up-to-date details on the products we offer. And you can do it all from any PC or online device.

Our "self-service" web site and Online Catalog are the most comprehensive and convenient up-to-date information sources we can offer. Explore some of our most popular product lines or review individual products. CRL has tens of thousands organized by specific product categories.

The convenience of having all CRL catalogs combined into one Online Catalog is the quick and easy way to find just what you need, available at your convenience, whenever you're ready.

Please review this page for tips on how to do business at **crlaurence.com**. And if you ever need assistance, just contact us over the Internet or by toll free phone. We'll be glad to help.

Find Exactly What You Want, Faster Than Ever. crlaurence.com Has the Information You Need:

- Complete Online Catalog Library
- Product Information and Pricing
- Additional Sizes, Finishes, Models, and Configurations
- Spec Sheets, Safety, and Technical Documents
- Shipping and Freight Limitations
- Installation Instructions
- Drawings, Details, and Specifications
- Related Products and Hardware

Three Easy Ways to Find Products Online

1 Product Number

Throughout the book you'll find product numbers next to products and in product charts (appears as "**CAT. NO.**"). Enter this number into the **crlaurence.com** search box and click "Search" for instant access to complete product info, pricing, availability, additional finishes/sizes, details, and related items.

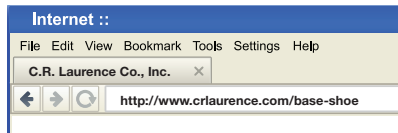| 12" (305 MM) C.T.C. CAT. NO.	STOCK LENGTH*
8B10D**	120' (3.05 m)
8B20D**	240' (6.10 m)
8B10F**	120' (3.05 m)
8B20F**	240' (6.10 m)
8B10	120' (3.05 m)

go to crlaurence.com to search for

base-shoe | Search

or enter the Catalog Number for complete product information

2 Shortcuts

The top right of each catalog page has a shortcut URL (web address) that relates to the products on the catalog page you're looking at. Simply type the string of text into your web browser's address bar and you'll jump to that specific expanded product offering on **crlaurence.com**.

Internet ::
File Edit View Bookmark Tools Settings Help
C.R. Laurence Co., Inc.
http://www.crlaurence.com/base-shoe

Every shortcut URL featured in this book is available in an easy-to-navigate alphabetical online directory. Visit **crlaurence.com/shortcuts**.

3 Keyword Search

The bottom left of each page lists unique search keywords to provide quick navigation once you're already at **crlaurence.com**. Type the keyword(s) into the **crlaurence.com** search box and click "Search" to be presented with a complete selection of products related to the catalog page you're on.

Sign Off | Your Account | View Cart | Help | Home
base-shoe | Search

TIP: Be sure to enter the text exactly as it appears on the page (including any hyphens).

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shortcuts | Search

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107B

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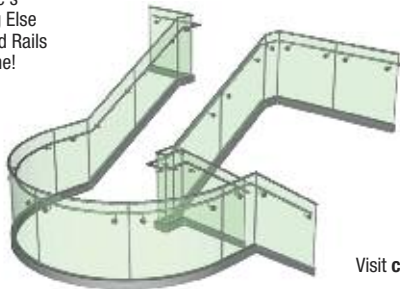From Anywhere in the U.S. or Canada

CRL US ALUMINUM

CRL Hand Rails Online

Web-Based Railing and Windscreen Design Program

- Design and Layout Software Program
- Tailored to Professionals Doing Hand Rails, Guard Rails, Glass Balustrades, and Windscreens
- Innovative Web-Based Program That Generates Glass Sizes, Material Cut Sizes, Layouts With a Complete Hardware List
- Supports Fabricated and Stock Length Ordering Methods
- Six Easy Steps to Design a Railing System, See Them Online at **crlaurence.com/online-apps**
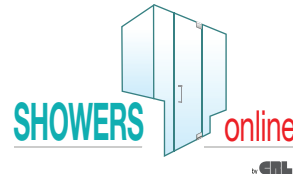- Generates Accurate Quotes in Minutes

HAND RAILS online
by CRL

There's Nothing Else Like Hand Rails Online!

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SHOWERS online by CRL

STOREFRONTS online by CRL

U.S. ALUMINUM

STOREFRONTS online by CRL

OFFICE PARTITIONS online by CRL

Hand Rails Online is part of our family of online services, including 'All-Glass' Storefronts Online®, U.S. Aluminum Storefronts Online, Showers Online, and Office Partitions Online. For information about all of our online programs, please visit **crlaurence.com/online-apps** .

Hand Rails Online is a web-based design program that allows you to enter your railing layout dimensions for a particular job, then calculates the stock lengths of material and all hardware required to complete your project. It also displays and prints detailed information such as post spacing, railing heights, and bottom rail clearances.

Hand Rails Online allows you to design and layout almost any configuration in minutes. Default settings and standard clearances can be customized within the program to suit the user's own needs. A quote sheet and layout drawings can be generated for a professional and personal presentation to a prospective customer.

Code Requirements

Codes and safety requirements are subject to local regulations, and can often change without prior notice. Therefore, we ask our customers to contact their local authorities to ensure that they are in compliance with all rules and regulations before starting any project.

Hand Rails Online is available only to CRL Authorized Dealers. You must have Internet access to use it. We offer live technical support to help you learn the process. For additional information, go to **crlaurence.com/online-apps** or contact CRL Technical Sales at (800) 421-6144 in the U.S., (877) 421-6144 from Canada, or (323) 588-1281 International, and ask for Ext. 7730. You can also e-mail us at **railings@crlaurence.com**.
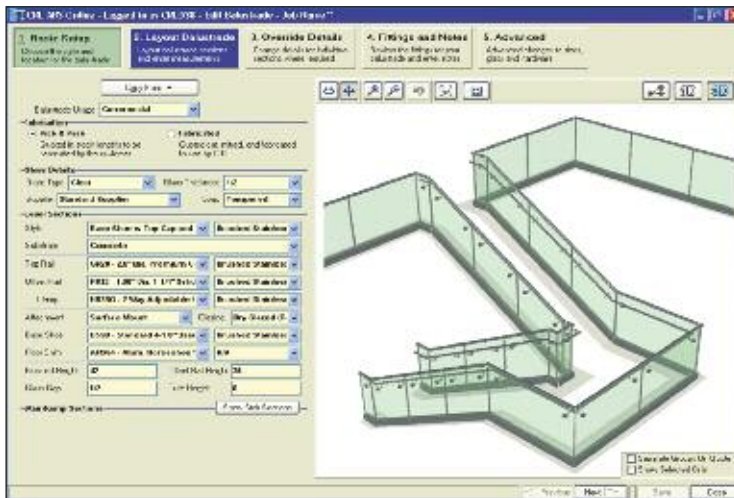
Creating your railing project has never been easier

Step-by-step from start to finish, we can help you through your railing project

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online-apps   Search

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108B

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CRL U.S. ALUMINUM

Architectural Frameless Glass Railing Systems

PAGES
109B - 276B

1

Aluminum Base Shoe MODEL **NEW!**

Blumcraft® Base Shoe Systems

Cap Rails MODEL **NEW!**

Cladding

Dry Glaze Railing Systems

Elevated Glass Railing System

Frameless Glass Railing Systems

Guard Rails

Heavy-Duty Square Base Shoe MODEL **NEW!**

Juliet Balcony Glass Railing System **NEW!**

LED Lighted Cap Rail System

Low Profile Base Shoe

"Rail Glass" **NEW!**

Roll Formed Cap Railing

Safety Seal Technology **NEW!**

Smoke Baffle System

Square Base Shoe MODEL **NEW!**

Standoff Railing System MODEL **NEW!**

Tapered Base Shoe

TAPER-LOC® Dry Glaze Railing System MODEL **NEW!**

Wet Glaze Railing System

Wood Cap Rails

These products and more can be found in this catalog section. On the top and bottom of each page are direct search instructions for viewing them on our web site. You can also enter the catalog number into the Search Box for a direct link to the product and **More Choices** in that category. To view **More Choices**, simply click on the red and white icon to be taken to a larger selection.

MORE *CHOICES* crlaurence.com
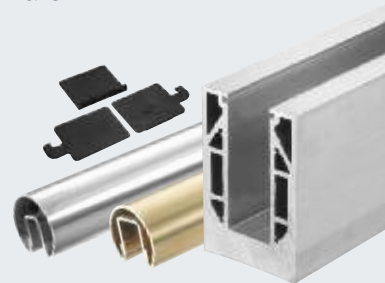
CRL GRS Glass Railing Systems

PAGES 109B-190B

- New Safety Seal Technology
- Tempered Glass Railing Panels
- Base Shoe and Cladding

An important addition to our TAPER-LOC® Dry Glaze System is the NEW Safety Seal technology, which prevents the installer from having to lean over the glass railing to roll in the gasket. Our Wet Glaze System is still the choice of many by pouring Expanding Cement to mount heavy glass into the Base Shoe. Look for CRL's selection of NEW Monolithic and Laminated Tempered Glass Panels on page 137B for use with our GRS Glass Railing Systems. Finally, pages 138B and 139B will be useful in selecting the proper Base Shoe for your project.

CRL Smoke Baffles

PAGES 191B-198B

- Specialty Base Shoe for 1/2" and 3/4" (12 and 19 mm) Glass
- Cladding and Cap Rail Vinyl
- Blumcraft® Two-Piece Smoke Baffle Base Shoe

For the required Life and Safety Code necessary in some buildings, CRL offers products for the construction of Smoke Baffle Partitions, thus limiting the spread of smoke and providing adequate egress during evacuation. Base Shoe, Cladding, Vinyl, End Caps and more can be used to provide almost invisible smoke curtains when combined with tempered glass. The Blumcraft® Two-Piece Smoke Baffle Base Shoe is another choice to help retain smoke in a specific area.

CRL CRS Cap Railing Systems

PAGES 199B-265B

- Expanded Selection of Cap Rails
- Corners, End Caps, and Other Accessories
- LED Lighting and Components

CRL's wide range of Cap Rails include a variety of architectural finishes, as well as wood types. The choice of Roll Formed, Premium, Extruded Aluminum, Wood, and the well known Blumcraft® Cap Rails assures a system certain to satisfy your application. A full line of accessories include Corners and End Caps to complete your project. LED Lighting and associated components allow the finishing touch.

CRL EGR Elevated Glass Railing System

PAGES 266B-267B

- Glass Railing Base Shoe
- Stanchion Assemblies
- Stanchion Covers
- Splice Plates

Ideal for balconies that require clearance under the bottom rail for drainage, the EGR Elevated Glass Railing Base Shoe System may be the answer to critical high-rise and other commercial applications. This Wet Glaze System allows water and debris to escape beneath the Base Shoe and not dam up over time. Seven stock color options, along with custom finishes, make matching most any surrounding area easy.

CRL SRS Standoff Railing Systems

PAGES 268B-275B

- Point Supported Bases in Choice of Square and Round Shapes
- Compact Design for Minimal Obstruction
- An Assortment of Attachments, Accessories, and Fasteners

Custom railing systems that address project-specific criteria are easier than ever utilizing the SRS Standoff Railing System. Round and square design options are offered for either interior or exterior use. The compact design of the SRS System means minimal obstruction, thus letting the beauty of the glass and surrounding area take over. The Point Supported Bases and Fittings come in two architectural finishes, with powder coated finishes available upon special order.

CRL Juliet Balcony Railing System

PAGE 276B

- Ideal for Guard Rails With Space Limitations for an Exterior Balcony, When Inward Swinging French Doors are Installed
- Choice of Round and Square Profile Cap Rails
- Sold in Complete Kits, With Replacement Parts in Stock

Our Juliet Balcony Glass Railing System is a simple solution for the need for fall protection. When there is space limitation for an exterior balcony, and inward swinging French doors are installed, the Juliet System provides the guard rail needed. Constructed of durable 316 grade brushed stainless steel, Juliet Kits come in a choice of round and square cap rails. No welding is required for this "quick-fit" design, and the glass requires no holes or notches.

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TOLL Phone: (800) 421-6144
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From Anywhere in the U.S. or Canada

CRL US ALUMINUM

CRL Offers a Choice of GRS Glass Rail Systems to Meet Your Needs

C.R. Laurence's offering to the Glass Railing Market is typical of the approach used in our other heavy glass product lines, such as our popular DRS Door Rail System for commercial hardware, or our vast line of Frameless Shower Door Hardware and Supplies. The lesson learned is that our customers (and their customers) enjoy options.

The CRL GRS Glass Rail System does just that. The TAPER-LOC® Dry Glaze System for mounting heavy glass into Base Shoe has been one of our most well received innovations. Shown below are a few of the key advantages to the Dry Glaze System.

And for those who prefer to use, or are familiar with, the Wet Glaze System of pouring expanding cement to mount heavy glass into Base Shoe, we offer that as well, with some new and improved features.

TAPER-LOC® Dry Glaze System

TAPER-LOC X
DRY GLAZE RAILING SYSTEM
For Monolithic Glass

TAPER-LOC XA
DRY GLAZE RAILING SYSTEM
For Monolithic Glass
(Vertical Glass Angle Adjustment)

TAPER-LOC XI
DRY GLAZE RAILING SYSTEM
For Laminated Glass

TAPER-LOC XAL
DRY GLAZE RAILING SYSTEM
For Laminated Glass
(Vertical Glass Angle Adjustment)

- Fast, Affordable, Flexible, and Removable, This System Offers All This and More!
- Taper Designs to Meet All Commercial and Residential Applications Using Monolithic Tempered Glass and Laminated Glass for Interior and Exterior Applications
- Dry Glazing Means Installation Time is Reduced by 50 Percent Because There's No Mixing or Clean-Up of Messy Cement
- The First and Only ICC-Approved Glass Railing System
- TAPER-LOC® Meets and Exceeds Code Standards, and is Miami-Dade County Certified and IBC Compliant
- Engineering and Testing Reports Available at **crlaurence.com/test-reports**

- New TAPER-LOC® '*XA*' and '*XAL*' Taper Sets Let You Compensate for Uneven Surfaces so Glass Panels Can be Perfectly Plumb (See Pages 113B, 116B-117B)

U.S. Patents 8,122,654 and 8,201,366.
Commonwealth of Australia
Patents 2008207524 and 2012202256

Tapers for Monolithic Tempered Glass

Tapers for Laminated Tempered Glass

New TAPER-LOC® '*XA*' Tapers for Monolithic Tempered Glass are Adjustable for Out of Plumb Conditions
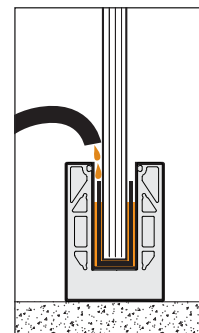
MODEL *NEW!*

New TAPER-LOC® '*XAL*' Tapers for Laminated Glass are Adjustable for Out of Plumb Conditions

Wet Glaze System

- A Tried and True Method to Secure Lites of Glass Into Base Shoe
- Utilizes the CRL Wet Glaze Pump Kit to Deliver Expanding Cement for Bonding Strength
- CRL Offers a Full Set of Tools and Accessories for You to Complete the Job (See Pages 128B-133B)

USE MONOLITHIC TEMPERED GLASS

USE LAMINATED TEMPERED GLASS

VIDEO ▶

go to crlaurence.com to search for
taper-loc | Search

109B

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TOLL Phone: (800) 421-6144
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CRL US ALUMINUM

The CRL TAPER-LOC® Dry Glaze System With Safety Seal Technology

- Now Featuring TAPER-LOC® for Both Monolithic Tempered and Laminated Tempered Glass

TAPER-LOC X
DRY GLAZE RAILING SYSTEM

U.S. Patents 8,122,654 and 8,201,366.
Commonwealth of Australia
Patents 2008207524 and 2012202256

TAPER-LOC® is Suitable for Both Interior and Exterior Installation

Prior to the introduction of the CRL TAPER-LOC® Dry Glaze System, installing glass railings had been a messy, labor intensive ordeal. After attaching the heavy Base Shoe to the structure, workers would have to go back and seal every joint and fastener in an effort to make the Base Shoe watertight. Blocking would then be placed into the Base Shoe to ensure there was no contact between the glass and the heads of the fasteners that permeated the bottom of the Base Shoe. The glass would then have to be carefully set on top of those blocks. Numerous wedges would have to be inserted into the bottom base at both sides of the glass in an effort to plumb the glass vertically, as well as to align one glass panel with another.

At this point, many installers would do a "pre-pour" of only about a third of the required quick-setting cement to secure the glass and allow them to remove the temporary wedges.

Now You Have an Alternative

Introducing the CRL TAPER-LOC® Dry Glaze System. No longer do you have to deal with messy cement. Our CRL TAPER-LOC® Dry Glaze System not only self-centers the glass, but plumbs it as well, and is all done from the floor side of the railing. The key to the system is plumbing the Base Shoe during installation. When installed properly, the glass panels will self-center and plumb themselves to match the Base Shoe.

This is done by adhering the required number of our L-Setting Blocks onto the bottom edge of the glass panel, positioning the glass into the Base Shoe, inserting the TAPER-LOC® Tapers opposite the L-Setting Blocks, and then squeezing the Tapers together finger tight. Place the Installation/Removal Tool into position onto the Tapers and push them down into the Base Shoe. Next, crank the Torque Wrench until it clicks and breaks for a few degrees, letting you know the Tapers are locked to the precise measured torque. Once the Tapers are in the locked position, your glass is not only secure but plumb, centered, and ready for a cap bead of caulking or roll-in vinyl. Glass panels are just as easy to remove. Simply reverse the torque setting on the Installation/Removal Tool and apply force to open the Tapers.
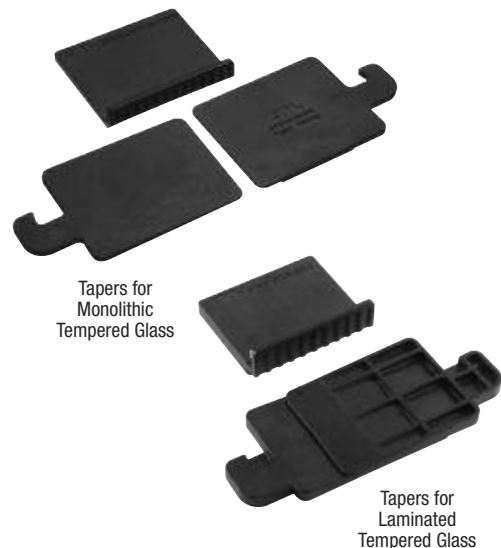
Once again, more wedges would be carefully inserted to maintain the glass in it's vertical position, but this time they would be smaller so that when they were removed there would be less 'spot' touch-up work to be done after the final pour was completed.

The process of pouring the cement in itself was very time consuming and quite messy. Even seasoned installers had a hard time keeping the Base Shoe and surrounding surfaces free from splatter and spillage. Also, if the Base Shoe was not properly sealed, leaking cement would damage the floors and walls. Finally, after time consuming clean up of the cement, a cap bead of caulking would have to be applied to both sides of the glass to hide the cement and protect it from the elements in an exterior application.

Tapers for Monolithic Tempered Glass

Tapers for Laminated Tempered Glass

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110B

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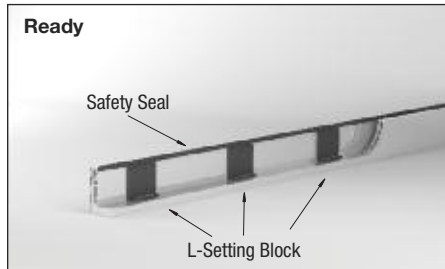
CRL US ALUMINUM

The CRL TAPER-LOC® Dry Glaze System

Using the CRL TAPER-LOC® Dry Glaze System will easily cut your installation labor time by 50%, and by an even greater percentage on ramp or stair applications where gravity interferes when trying to pour cement. The CRL TAPER-LOC® Dry Glaze System has been designed to accommodate variations in glass thickness and Base Shoe pocket width, making glass railing installations as easy as Ready, Set, Done.

TAPER-LOC.X
DRY GLAZE RAILING SYSTEM

U.S. Patents 8,122,654 and 8,201,366.
Commonwealth of Australia
Patents 2008207524 and 2012202256

Ready

Safety Seal

L-Setting Block

Install the Safety Seal on the "drop-side" and adhere TAPER-LOC® L-Setting Blocks to the "drop-side" wall inside the Base Shoe.

Set
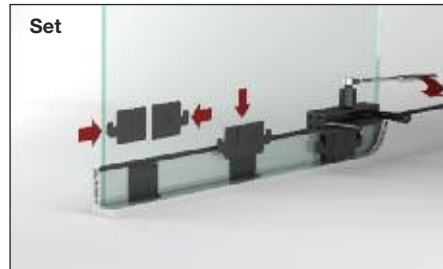
Lower the glass into position and install TAPER-LOC® Tapers with the TLK12 Tool to lock the glass securely in place.

Done

Roll in the Glazing Gasket and you're done! The TAPER-LOC® System makes it quick, clean, and simple.

- Fast, Affordable, Flexible, and Removable
- Winner of Glass Magazine's Crystal Achievement Award for "Most Innovative Commercial Hardware Product"

Crystal Achievement Award Winner glass

- Now Featuring TAPER-LOC® *'XAL'* for Vertical Adjustment of Laminated Tempered Glass (See Pages 116B-117B)

ICC ES

CRL has designed a complete line of tools, fasteners, and accessories to make installation even easier. These items can be found on pages 121B to 126B. Installation instructions and the use of each tool and accessory are completely described in our TAPER-LOC® Dry Glaze System Installation Instructions. Below is a selection of TAPER-LOC® Dry Glaze System components which can be ordered separately. You can also view these, along with all our other products, at **crlaurence.com/taper-loc**.

MODEL | *NEW!*

MODEL | *NEW!*

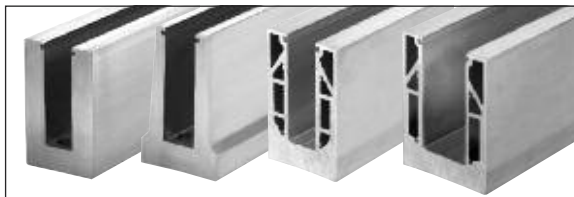TAPER-LOC® *'X'* Tapers
for Monolithic Glass
(see page 112B)

TAPER-LOC® *'XA'* Tapers for Glass
Angle Adjustment for Monolithic Glass
(see page 113B)

TAPER-LOC® *'X1'* Tapers
for Laminated Glass
(see page 114B)

TAPER-LOC® *'XAL'* Tapers for Vertical Glass
Angle Adjustment for Laminated Glass
(see pages 116B-117B)

A Variety of Base Shoe Styles to Meet Your Needs
(see pages 144B to 176B)

PAL Plumb/Angle/Level Locator Kit
(see page 121B)

TAPER-LOC®
Installation/Removal Tool with
Integrated Torque Wrench
(see page 122B)

INSTALLER NOTICE: Base Shoe must be plumb. When using the TAPER-LOC® Dry Glaze System, the plumb installation of the Base Shoe is very important. Care must be taken to ensure that it is plumb to ±1/8" (3 mm) at an extended height of 42" (1066 mm).

The glass panels will only be as plumb as the Base Shoe, and this is magnified at the 42" (1066 mm) height. CRL offers a variety of tools and accessories to make the plumbing process as easy as possible (see pages 121B, 126B, and 186B).

go to crlaurence.com to search for

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111B

TOLL Phone: (800) 421-6144
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CRL US ALUMINUM

CRL TAPER-LOC® *'X'* Taper Sets for 1/2", 5/8", and 3/4" (12, 15, and 19 mm) Monolithic Tempered Glass

TAPER-LOC.X
DRY GLAZE RAILING SYSTEM

U.S. Patents 8,122,654 and 8,201,366.
Commonwealth of Australia
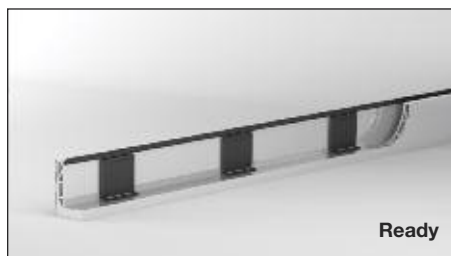Patents 2008207524 and 2012202256

- Reinforced Polymer for Interior and Exterior Use With CRL's 8B, B5S, B5A, B5T, 8B58, B6N, B6S, 8B34, and B7S Glass Railing Base Shoe
- Precision Measured Control Gives You High Quality Installs Every Time
- Supports All Mounting Methods With One Compact Installation/Removal Tool
- Eliminates the Use of Messy Cement

ONLINE ARCHITECTURAL RESOURCES

ICC **ES**
ESR-3269

USE MONOLITHIC TEMPERED GLASS

CAT. NO.	APPLICATION
TL5X10	TAPER-LOC® *'X'* for Interior and Exterior Use

Minimum order: 10 sets. Must be ordered in increments of 10. All Taper Sets can be combined for quantity pricing.

PANEL WIDTH	SUGGESTED TAPER-LOC® SETS PER PANEL
6" to 14" (152 to 356 mm)	1 Set
14" to 28" (356 to 711 mm)	2 Sets
28" to 42" (711 to 1067 mm)	3 Sets
42" to 56" (1067 to 1422 mm)	4 Sets
56" to 70" (1422 to 1778 mm)	5 Sets
70" to 84" (1778 to 2134 mm)	6 Sets

CRL's TAPER-LOC® *'X'* Taper Set for 1/2" to 3/4" (12 to 19 mm) Monolithic Tempered glass is made up of two Tapers and one L-Setting Block. Tapers are made of high strength reinforced engineering grade polymer, and expand in thickness when compressed together with the Cat. No. TLK12 Installation/Removal Tool, mechanically locking the glass panel into the base shoe.
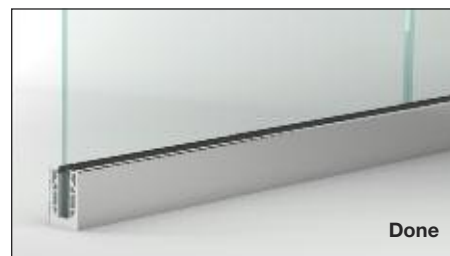
The TAPER-LOC® L-Setting Block spaces the glass away from the base shoe's vertical wall on one side and at the bottom edge, and is attached to either the inside of the Base Shoe's "drop-side" wall or to the glass panel prior to installing into the base shoe with an adhesive tape strip that is pre-installed. It also serves to insulate the glass panels from damage during insertion into the base shoe, and at the same time centers the glass in the pocket.

CAT. NO. TLK12

TAPER-LOC® Installation/Removal Tool With Integrated Torque Wrench provides correct lock-up force to secure Tapers against the glass. Minimum order is one each. (see page 122B for additional information).

VIDEO ▶

Ready

Install the Safety Seal on the "drop-side" and adhere TAPER-LOC® L-Setting Blocks to the "drop-side" wall inside the Base Shoe.

Set
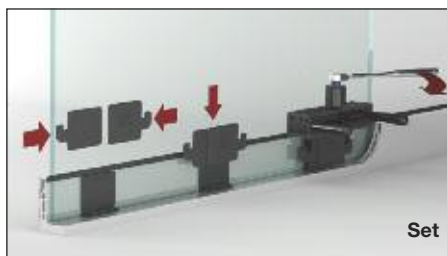
Lower the glass into position and insert, then tighten the TAPER-LOC® *'X'* Tapers with the TLK12 Tool to lock the glass securely in place.

Done

Roll-in the Inside Safety Seal and you're done! The TAPER-LOC® System makes it quick, clean, and simple.

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112B

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CRL US ALUMINUM

CRL GRS DRY GLAZE SYSTEM

CRL Adjustable TAPER-LOC® *'XA'* Installation Components for 1/2" to 3/4" (12 to 19 mm) Monolithic Tempered Glass

- TAPER-LOC® *'XA'* Lets You Compensate for Uneven Surfaces So Glass Panels Can Be Perfectly Plumb
- Next Generation Taper Sets Install Easily Using Our TLK12 Installation/Removal Tool and New TLXAAT Angle Adjustment Tool
- Taper Sets for 1/2" to 3/4" (12 to 19 mm) Monolithic Glass Work With Our Most Commonly Used Aluminum Base Shoe
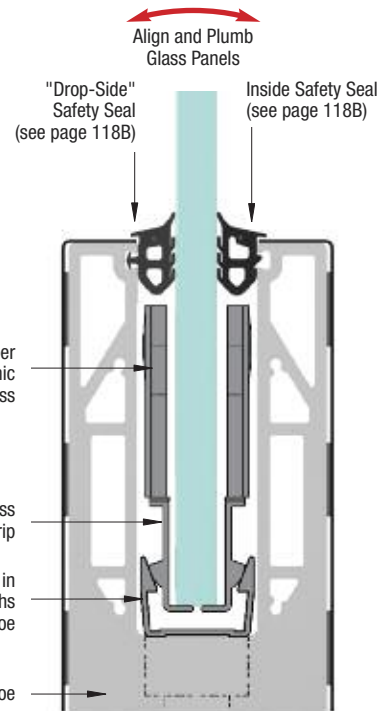
TAPER-LOC XA
DRY GLAZE RAILING SYSTEM

U.S. Patents 8,122,654 and 8,201,366.
Commonwealth of Australia Patents 2008207524 and 2012202256

ICC ES
ESR-3269

USE MONOLITHIC TEMPERED GLASS

VIDEO ▶

TAPER-LOC® *'XA'* is especially designed to allow vertical adjustment of the glass panels to perfect plumb, no matter how uneven the floor beneath the Base Shoe. Glass Setting Strips with pre-positioned adhesive tape get adhered to the lower edge of the glass panel. They rest on a Setting Base that allows you to adjust the glass panel to plumb, even if the Base Shoe segments do not align perfectly.

Unlike the original TAPER-LOC® System, the **'XA'** Taper Sets are placed on both sides of the glass panel. That gives you the flexibility to perfectly align and plumb the glass panels in every segment. The addition of our "Drop-Side" Safety Seal (see page 118B) and TLXAAT Angle Adjustment Tool (see page 124B) lets you make adjustments to panels that are already installed on balconies or elevated concourses without the need for scaffolding or dangerously leaning over the railing. To finish off the installation use our Inside Safety Seal. This black colored vinyl rolls into the cavity between the glass and the Base Shoe to keep out water and debris (see page 118B).

For more information, contact CRL Railing Technical Sales at (800) 421-6144 in the U.S., (877) 421-6144 from Canada, or (323) 588-1281 from outside the U.S. and Canada. Ask for Ext. 7730. Send email to us at **railings@crlaurence.com**.

Section View

Align and Plumb Glass Panels
"Drop-Side" Safety Seal (see page 118B)
Inside Safety Seal (see page 118B)
Adjustable Taper Set for Monolithic Glass
Glass Setting Strip
Setting Base in Three Widths for Base Shoe
Base Shoe

- Specially Designed to Allow Up to 3/4" (19 mm) Vertical Adjustment of Glass Panels at 42" (1067 mm) Height
- Reinforced Polymer for Interior or Exterior Use

1-3/8" (35 mm)

ADJUSTABLE TAPER SETS

CAT. NO.	GLAZING TYPE
TLXATSM	1/2" to 3/4" (12 to 19 mm) Monolithic

Minimum order: 20 sets. Must be ordered in increments of 20.
All Taper Sets can be combined for quantity pricing.

GLASS SETTING STRIPS IN 57" (1.45 M) LENGTHS

CAT. NO.	GLAZING TYPE
TLXAM0N0	1/2" to 3/4" (12 to 19 mm) Monolithic

Minimum order: 10 each. Must be ordered in increments of 10.
Sizes can be combined for quantity pricing.

SETTING BASE IN 10" (254 MM) PIECES

CAT. NO.	GLAZING	BASE SHOE TYPES
TLXA12SB	Monolithic	8B, B5A, B5S, B5T
TLXA15SB	Monolithic	8B58, B6N, B6S
TLXA19SB	Monolithic	8B34, B7S

Minimum order: 10 each. Must be ordered in increments of 10.
Sizes can be combined for quantity pricing.

PANEL WIDTH	SUGGESTED TAPER-LOC® *XA* SETS PER PANEL
6" to 14" (152 to 356 mm)	1 Set
14" to 28" (356 to 711 mm)	2 Sets
28" to 42" (711 to 1067 mm)	3 Sets
42" to 56" (1067 to 1422 mm)	4 Sets
56" to 70" (1422 to 1778 mm)	5 Sets
70" to 84" (1778 to 2134 mm)	6 Sets

CAT. NO. TLK12
Installation/Removal Tool
(see page 122B)

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113B

TOLL Phone: (800) 421-6144
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CRL US ALUMINUM

CRL TAPER-LOC® *'X1'* Taper Sets for 9/16" (13.52 mm) and 11/16" (17.52 mm) Laminated Tempered Glass

NEW!

TAPER-LOC. X1
DRY GLAZE RAILING SYSTEM

U.S. Patents 8,122,654 and 8,201,366.
Commonwealth of Australia
Patents 2008207524 and 2012202256

- New Two-Piece Taper Design Allows for Easy Installation
- Great for Stadiums, Condos, or Areas Trying to Avoid the Hazard of Broken Glass Falling to Lower Levels
- Designed to Fit CRL's 9BL56, L56S, 9BL68, and L68S Laminated Glass Base Shoe Only
- Use With 9/16" (13.52 mm) and 11/16" (17.52 mm) Laminated Tempered Glass (6 x 1.52 x 6 mm and 8 x 1.52 x 8 mm)
- Reinforced Polymer Suitable for Interior and Exterior Use

CAT. NO.	APPLICATION
LTL96X1	TAPER-LOC® *'X1'* for Interior and Exterior Use

Minimum order: 10 Taper Sets. Must be ordered in increments of 10.
All Taper Sets can be combined for quantity pricing.

CRL's TAPER-LOC® *'X1'* Laminated Glass Taper Set is great for balustrades in stadiums, malls, condos, or any areas trying to avoid the hazard of broken glass falling to lower levels. The set is composed of two Tapers and one L-Setting Block, all made of a high strength reinforced polymer. They expand in thickness when compressed together with the Cat. No. TLK12 Installation/Removal Tool, mechanically locking the glass panel into the heavy aluminum base shoe.

NOMINAL TAPER-LOC® SPACING REQUIREMENTS WHEN USING 9/16" (13.52 MM) TEMPERED LAMINATED GLASS WITH (SGP)

PANEL WIDTH	SUGGESTED TAPER-LOC® X1 SETS PER PANEL
6" to 10" (152 to 254 mm)	1 Set
10" to 16" (254 to 406 mm)	2 Sets
16" to 24" (406 to 610 mm)	3 Sets
24" to 32" (610 to 813 mm)	4 Sets
32" to 40" (813 to 1016 mm)	5 Sets
40" to 48" (1016 to 1219 mm)	6 Sets
48" to 56" (1219 to 1422 mm)	7 Sets
56" to 64" (1422 to 1626 mm)	8 Sets
64" to 72" (1626 to 1829 mm)	9 Sets
72" to 80" (1829 to 2032 mm)	10 Sets
80" to 84" (2032 to 2134 mm)	11 Sets

NOMINAL TAPER-LOC® SPACING REQUIREMENTS WHEN USING 11/16" (17.52 MM) TEMPERED LAMINATED GLASS WITH (SGP)

PANEL WIDTH	SUGGESTED TAPER-LOC® X1 SETS PER PANEL
6" to 14" (152 to 356 mm)	1 Set
14" to 28" (356 to 711 mm)	2 Sets
28" to 42" (711 to 1067 mm)	3 Sets
42" to 56" (1067 to 1422 mm)	4 Sets
56" to 70" (1422 to 1778 mm)	5 Sets
70" to 84" (1778 to 2134 mm)	6 Sets

ICC ES ESR-3842

USE LAMINATED TEMPERED GLASS

CRL TAPER-LOC® *'X1'* Taper Sets for 27/32" (21.52 mm) Laminated Tempered Glass

NEW!

TAPER-LOC. X1
DRY GLAZE RAILING SYSTEM

U.S. Patents 8,122,654 and 8,201,366.
Commonwealth of Australia
Patents 2008207524 and 2012202256

- New Two-Piece Taper Design Allows for Easy Installation
- The Best Choice for Stadiums, Condos, or Areas Trying to Avoid the Hazard of Broken Glass Falling to Lower Levels
- Designed to Fit CRL's 9BL21 and L21S Laminated Glass Base Shoe Only
- Use With 27/32" (21.52 mm) Laminated Tempered Glass (10 x 1.52 x 10 mm)
- Reinforced Polymer Suitable for Interior and Exterior Use

ICC ES ESR-3842

USE LAMINATED TEMPERED GLASS

CRL's TAPER-LOC® *'X1'* Laminated Glass Taper Set is great for balustrades in stadiums, malls, condos, or any areas trying to avoid the hazard of broken glass falling to lower levels. The set is composed of two Tapers and one L-Setting Block, all made of a high strength reinforced polymer. They expand in thickness when compressed together with the Cat. No. TLK12 Installation/Removal Tool, mechanically locking the glass panel into the heavy aluminum base shoe.

CAT. NO.	APPLICATION
LTL10X1	TAPER-LOC® *'X1'* for Interior and Exterior Use

Minimum order: 10 Taper Sets. Must be ordered in increments of 10.
All Taper Sets can be combined for quantity pricing.

PANEL WIDTH	SUGGESTED TAPER-LOC® X1 SETS PER PANEL
6" to 14" (152 to 356 mm)	1 Set
14" to 28" (356 to 711 mm)	2 Sets
28" to 42" (711 to 1067 mm)	3 Sets
42" to 56" (1067 to 1422 mm)	4 Sets
56" to 70" (1422 to 1778 mm)	5 Sets
70" to 84" (1778 to 2134 mm)	6 Sets

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CRL US ALUMINUM

CRL TAPER-LOC® 'X' Taper Sets for 1-1/16" (25.52 mm) Laminated Tempered Glass

TAPER-LOC X
DRY GLAZE RAILING SYSTEM

U.S. Patents 8,122,654 and 8,201,366.
Commonwealth of Australia
Patents 2008207524 and 2012202256

- The Best Choice for Stadiums, Condos, or Areas Trying to Avoid the Hazard of Broken Glass Falling to Lower Levels
- Designed to Fit CRL's L25S Laminated Glass Base Shoe Only
- For Use With 1-1/16" (25.52 mm) Laminated Tempered Glass
- Reinforced Polymer Suitable for Interior and Exterior Use

- Four-Piece Taper Design

ICC **ES**
ESR-3842

USE LAMINATED TEMPERED GLASS

CRL's TAPER-LOC® *'X'* Taper Sets for 1-1/16" (25.52 mm) laminated tempered glass are made up of four Tapers and one L-Setting Block. Engineering grade polymer tapers expand in thickness when compressed together with the Cat. No. TLK12 Installation/Removal Tool (see page 122B), mechanically locking the glass panel into the base shoe.

The TAPER-LOC® L-Setting Block spaces the glass away from the base shoe's vertical wall on one side and at the bottom edge, and is attached to either the inside of the base shoe's "drop-side" wall, or to the glass panel prior to installing into the base shoe with an adhesive tape strip that is pre-installed. It also serves to insulate the glass panels from damage during insertion into the base shoe and, at the same time, center the glass in the pocket.

CAT. NO.	APPLICATION
LTL10X	TAPER-LOC® *'X'* for Interior and Exterior Use

Minimum order: 10 Taper Sets. Must be ordered in increments of 10.
All Taper Sets can be combined for quantity pricing.

PANEL WIDTH	SUGGESTED TAPER-LOC® X SETS PER PANEL
6" to 14" (152 to 356 mm)	1 Set
14" to 28" (356 to 711 mm)	2 Sets
28" to 42" (711 to 1067 mm)	3 Sets
42" to 56" (1067 to 1422 mm)	4 Sets
56" to 70" (1422 to 1778 mm)	5 Sets
70" to 84" (1778 to 2134 mm)	6 Sets

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CRL GRS DRY GLAZE SYSTEM

CRL Adjustable TAPER-LOC® *'XAL'* Sets for 11/16" and 27/32" (17.52 and 21.52 mm) Laminated Tempered Glass

NEW!

ESR-3842

TAPER-LOC XAL
DRY GLAZE RAILING SYSTEM

U.S. Patents 8,122,654 and 8,201,366.
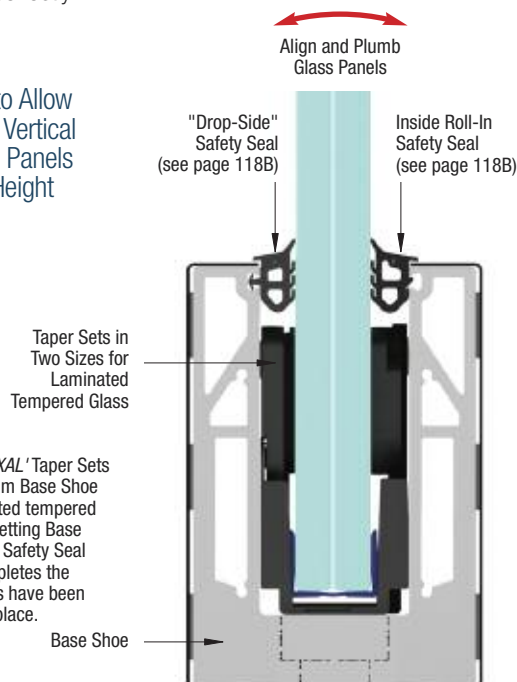Commonwealth of Australia
Patents 2208207524 and 2012202256

All the Benefits of TAPER-LOC® and More!

- Taper Sets for 11/16" and 27/32" (17.52 and 21.52 mm) Laminated Tempered Glass Work With Our 9BL68, L68S, 9BL21, and L21S Aluminum Base Shoe
- TAPER-LOC® *'XAL'* Lets You Compensate for Uneven Surfaces So Glass Panels Can Be Perfectly Plumb
- Next Generation Taper Sets Install Easily Using Our TLK12 Installation/Removal Tool

USE LAMINATED TEMPERED GLASS

When job site conditions aren't perfect it's good to know you can rely on a product that will help you achieve results that are. That's what you get with TAPER-LOC® *'XAL'*. TAPER-LOC® *'XAL'* is especially designed to allow vertical adjustment of the glass panels to perfect plumb, no matter how uneven the floor beneath the Base Shoe. Integrated setting blocks with "drop-side" adjustable tapers has a self-centering device. The "drop-side" tapers are manipulated from the pedestrian side using our TLK12 Installation/Removal Tool, and does not require reaching over the glass. No need for scaffolding or dangerously leaning over the railing. It is easy to adjust the glass panel to plumb, even if the Base Shoe segments do not align perfectly.

The new TAPER-LOC® *'XAL'* is for use with 11/16" and 27/32" (17.52 and 21.52 mm) laminated tempered glass with Ionoplast™ interlayer. The system meets and exceeds building code pull out force requirements and includes all the advantages associated with our TAPER-LOC® System.

For more information, contact CRL Railing Technical Sales at (800) 421-6144 in the U.S., (877) 421-6144 from Canada, or (323) 588-1281 from outside the U.S. and Canada. Ask for extension 7730. You may also send email to **railings@crlaurence.com**.

- Specially Designed to Allow Up to 3/4" (19 mm) Vertical Adjustment of Glass Panels at 42" (1067 mm) Height

Align and Plumb Glass Panels

"Drop-Side" Safety Seal (see page 118B)

Inside Roll-In Safety Seal (see page 118B)

Taper Sets in Two Sizes for Laminated Tempered Glass

End view of glass panel with *'XAL'* Taper Sets installed in our 9BL68 Aluminum Base Shoe for 11/16" (17.52 mm) laminated tempered glass. The glass rests on the Setting Base installed within the base shoe. Safety Seal and/or Roll-in Top Gasket completes the installation after the Taper Sets have been tightened to lock the panel in place.

Base Shoe

CAT. NO. XL17LT
Adjustable Taper Set for 11/16" (17.52 mm) Laminated Glass
Minimum order: 10 each.
Must be ordered in increments of 10.

CAT. NO. XL21LT
Adjustable Taper Set for 27/32" (21.52 mm) Laminated Glass
Minimum order: 10 each.
Must be ordered in increments of 10.

Pusher Plate Not Required for *'XAL'* Installs.

CAT. NO. TLK12
Installation/Removal Tool
(see page 122B)
Minimum order: 1 each.

go to crlaurence.com to search for
taper-loc Search
or enter the Catalog Number for complete product information

116B

TOLL Phone: (800) 421-6144
FREE Fax: (800) 262-3299
From Anywhere in the U.S. or Canada

CRL US ALUMINUM

CRL Adjustable TAPER-LOC® *'XAL'* Sets for 11/16" and 27/32" (17.52 and 21.52 mm) Laminated Tempered Glass

NEW!

- Easy Vertical Glass Angle Adjustment Up to 3/4" (19 mm)
- Compatible With Our Base Shoes and Safety Seals
- Meets and Exceeds Building Code Pull Out Force Requirements
- For Use With 11/16" and 27/32" (17.52 and 21.52 mm) Laminated Tempered Glass

CRL
US ALUMINUM®
MANUFACTURED IN THE USA

USE LAMINATED TEMPERED GLASS

TAPER-LOC XAL
DRY GLAZE RAILING SYSTEM

U.S. Patents 8,122,654 and 8,201,366.
Commonwealth of Australia Patents 2008207524 and 2012202256

CRL's TAPER-LOC® *'XAL'* Taper Sets for 11/16" and 27/32" (17.52 and 21.52 mm) laminated tempered glass are made up of one Setting Base/Drop-Side Taper, and one Front Side Taper. Tapers are made of high strength reinforced engineering grade polymer, and expand in thickness when compressed together with Cat. No. TLK12 Installation/Removal Tool, mechanically locking the glass panel into the Base Shoe.

The New TAPER-LOC® *'XAL'* Setting Base spaces the glass away from the Base Shoe's vertical walls and at the bottom edge, allowing for glass angle adjustment. It also serves to insulate the glass panels from damage during insertion into the Base Shoe and, at the same time, center the glass in the pocket.

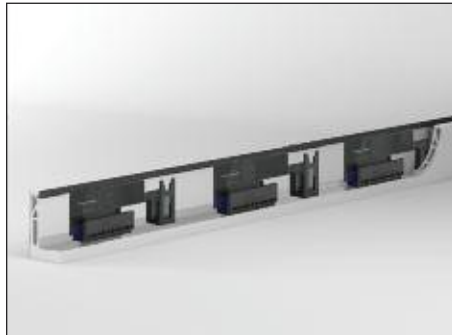• Reinforced Polymer for Interior and Exterior Use

TAPER SETS FOR 11/16" AND 27/32" (17.52 AND 21.52 MM) LAMINATED TEMPERED GLASS

CAT. NO.	GLAZING TYPE
XL17LT	11/16" (17.52 mm) Laminated Tempered
XL21LT	27/32" (21.52 mm) Laminated Tempered

Minimum order: 10 Taper Sets. Must be ordered in increments of 10.
All Taper Sets can be combined for quantity pricing.

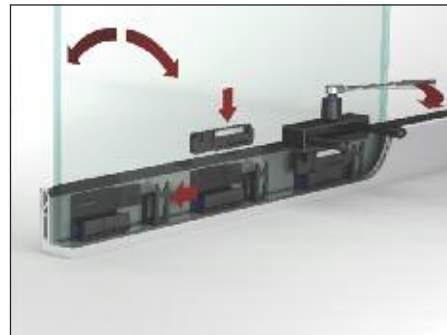| PANEL WIDTH	SUGGESTED TAPER-LOC® *XAL* SETS PER PANEL
6" to 14" (152 to 356 mm)	1 Set
14" to 28" (356 to 711 mm)	2 Sets
28" to 42" (711 to 1067 mm)	3 Sets
42" to 56" (1067 to 1422 mm)	4 Sets
56" to 70" (1422 to 1778 mm)	5 Sets
70" to 84" (1778 to 2134 mm)	6 Sets

ICC ES
ESR-3842

Step 1:
Install the Safety Seal on the "drop-side" and place TAPER-LOC® *'XAL'* units inside the Base Shoe.

Step 2:
Set the glass and vertically adjust the angle up to 3/4" (19 mm) into alignment with the adjacent glass panel, simply by moving the top edge of the glass.

Step 3:
Place Cat. No. LTLST3 Glass Railing Setting Tool into the receiving pocket of the actuating arm that is located between the glass and Base Shoe on the pedestrian side, then slide it to the left until the drop-side Tapers are in contact with the glass and Base Shoe.

Step 4:
Install the pedestrian side Tapers and lock them in place with the TLK12 Installation/Removal Tool.

Step 5:
Roll-In the Inside Safety Seal and you're done. The TAPER-LOC® System makes it quick, clean, and simple.

Quick, Clean, Simple, and Safe!

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taper-loc | Search | **117B**
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TOLL Phone: (800) 421-6144
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From Anywhere in the U.S. or Canada

CRL
US ALUMINUM

CRL TAPER-LOC® Safety Seals for Monolithic and Laminated Tempered Glass Base Shoe

- Helps Prevent Unsafe Leaning Over Railing During Installs
- "Drop-Side" Seal Installs in Base Shoe Prior to Glass

CRL's NEW Safety Seal gets put in place into the Base Shoe prior to installing the glass, preventing unsafe leaning over the railing to install the "drop-side" seal. Setting blocks are now universal for use with the Safety Seal, with the new backside surface tape for installation into the Base Shoe (required for the Safety Seal System). Optionally, the traditional installation method with push-in seals can be used at both sides (see page 119B).

NEW!

Safety Seal Greatly Improves Safety for the Glazier and Installation Speed. Installed on "Drop-Side" Before the Glass is Installed.

- Patent Pending

Patent Pending Base Shoe Detail Enables use of the Safety Seal Feature

Anchor Base Shoe and Install the (Outside Edge) Drop Side Safety Seal Gasket

Install the TAPER-LOC® L-Setting Blocks Into the Base Shoe Pocket

Install the Glass Panel and insert, then tighten the TAPER-LOC® Tapers with the TLK12 Tool to lock the glass securely in place. Roll-in the Inside Safety Seal and you're done.

SAFETY FIRST!
SAFETY SEAL PREVENTS INSTALLER FROM HAVING TO LEAN OVER THE GLASS RAILING TO ROLL IN THE GASKET

Safety Seal helps eliminate the danger of leaning over the railing and the need for costly scaffolding

SMBSG Series
"Drop-Side" Safety Seal

MBSG Series
Inside Safety Seal

FOR 1/2" TO 3/4" (12 TO 19 MM) MONOLITHIC TEMPERED GLASS

CAT. NO.	DESCRIPTION	ROLL LENGTH
SMBSG1	"Drop-Side" Safety Seal for Monolithic Glass	100' (30.5 m)
SMBSG5	"Drop-Side" Safety Seal for Monolithic Glass	500' (152.4 m)
MBSG1	Inside Safety Seal for Monolithic Glass	100' (30.5 m)
MBSG5	Inside Safety Seal for Monolithic Glass	500' (152.4 m)

Minimum order: 1 roll.

SLBSG Series
"Drop-Side" Safety Seal

LBSG Series
Inside Safety Seal

FOR 9/16", 11/16", 27/32", OR 1-1/16" (13.52, 17.52, 21.52, OR 25.52 MM) LAMINATED TEMPERED GLASS

CAT. NO.	DESCRIPTION	ROLL LENGTH
SLBSG1	"Drop-Side" Safety Seal for Laminated Glass	100' (30.5 m)
SLBSG2	"Drop-Side" Safety Seal for Laminated Glass	200' (61 m)
LBSG100	Inside Safety Seal for Laminated Glass	100' (30.5 m)
LBSG200	Inside Safety Seal for Laminated Glass	200' (61 m)

Minimum order: 1 roll.

go to crlaurence.com to search for
base-shoe-gaskets   Search   **118B**
or enter the Catalog Number for complete product information

TOLL Phone: (800) 421-6144
FREE Fax: (800) 262-3299
From Anywhere in the U.S. or Canada

CRL US ALUMINUM

CRL Push-In Top Rubber Gasket for Monolithic Tempered Glass Base Shoe

• Quick and Easy Black Rubber Gasket Locks in Place When Used With CRL's Monolithic Glass Railing Base Shoe

Glass Side
Shoe Side

CRL Top Rubber Gasket finishes off the top of the Base Shoe pocket after glass has been set. Made of black EPDM rubber, it easily rolls in with the CRL Vinyl Roller Tool (see below). An alternate method of finishing off the top pocket is to use CRL Open Cell Backer Rod and 95CBL Black Silicone (see page 125B).

CAT. NO.	GLASS THICKNESS	ROLL LENGTH
BSG100	1/2" to 3/4" (12 to 19 mm)	100' (30.5 m)
BSG500	1/2" to 3/4" (12 to 19 mm)	500' (152.4 m)

Minimum order: 1 roll.

CRL Push-In Top Rubber Gasket for Laminated Tempered Glass Base Shoe

• Quick and Easy Black Rubber Gasket Locks in Place When Used With CRL's Laminated Glass Railing Base Shoe

Glass Side
Shoe Side

CRL Top Rubber Gasket finishes off the top of the Base Shoe pocket after glass has been set. Made of black EPDM rubber, it easily rolls in with the CRL Vinyl Roller Tool (see below). An alternate method of finishing off the top pocket is to use CRL Open Cell Backer Rod and 95CBL Black Silicone (see page 125B).

CAT. NO.	GLASS THICKNESS	ROLL LENGTH
LBSG100	9/16", 11/16", 27/32", or 1-1/16" (13.52, 17.52, 21.52, or 25.52 mm)	100' (30.5 m)
LBSG200	9/16", 11/16", 27/32", or 1-1/16" (13.52, 17.52, 21.52, or 25.52 mm)	200' (61 m)

Minimum order: 1 roll.

CRL Vinyl Roller Tools for Top Rubber Gasket

• Comfortable Tapered Grip and a Ball Bearing Wheel

VR17 Extra Long Vinyl Roller Tool
VR04 Standard Vinyl Roller Tool
VR10 Blue Handle Vinyl Roller Tool

CRL Vinyl Roller Tools aid in the insertion of Glazing Gaskets in aluminum Base Shoe.

CAT. NO.	DESCRIPTION	REPLACEMENT WHEEL CAT. NO.
VR17	Extra Long 17" (432 mm) Vinyl Roller	RVW112
VR04	Standard 11" (279 mm) Vinyl Roller	RVW112
VR10	Blue Handle 11" (279 mm) Vinyl Roller	VR10RW

Minimum order: 1 each.

CRL Rigid Rubber Spacing Blocks With Adhesive

• Adhesive Back Holds Spacing Block in Place
• Maintains Even Spacing of Glass Panels

SDS ONLINE

CRL Rigid Rubber Spacing Blocks With Adhesive provide even spacing between glass panels. They are always necessary on slant stair installations to prevent the glass panels from sliding down. They are easily installed and perfectly aligned every time using the CRL Rubber Spacing Block Installation Tool (see page 124B). Adhesive back holds the Spacing Blocks in position. **NOTE:** You must cut 5/8" (16 mm) off the length of the Spacing Block when used with B5L Series Low Profile Base Shoe.

CAT. NO.	FITS BASE SHOE SERIES	WIDTH	THICKNESS	LENGTH	QTY/PKG
GR5ASB	8B, B5A, B5S, B5T, B5L, 8B58, B6N, B6S, 9BL56, L56S	1/2" (12 mm)	1/4" (6 mm)	3-5/16" (84 mm)	100
GR7ASB	8B34, B7S, 9BL68, L68S	3/4" (19 mm)	1/4" (6 mm)	3-5/16" (84 mm)	100
LGR21SB	9BL21, L21S	13/16" (21 mm)	1/4" (6 mm)	3-5/16" (84 mm)	100
LGR25SB	L25S	1-1/16" (27 mm)	1/4" (6 mm)	3-5/16" (84 mm)	100

Minimum order: 100 each. Must be ordered in increments of 100.

go to crlaurence.com to search for
base-shoe-gaskets Search
or enter the Catalog Number for complete product information

119B

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From Anywhere in the U.S. or Canada

CRL US ALUMINUM

The CRL 'All-Glass' Railing System
Installed Using the TAPER-LOC® Dry Glaze Method

TAPER-LOC X
DRY GLAZE RAILING SYSTEM

U.S. Patents 8,122,654 and 8,201,366.
Commonwealth of Australia
Patents 2008207524 and 2012202256

① Code Considerations

Model Code Regulations usually require 50 lb./ft. uniform loading or a 200 lbs. concentrated load to the hand rail at the distance of 42" (1066 mm) above the floor. In our test, concentrated loads of 400 to 800 lbs. (181 to 363 kg) were applied at approximately 42" (1066 mm) above the floor surface. Test results and engineering calculations show that the strength of our Base Shoe Extrusion and selected fasteners that were tested would exceed the above mentioned Model Code loading criteria by a factor of four.

All Base Shoe attachment substrates should be tested for compliance by a structural engineer because steel, concrete, or other attachment substrates can change from job to job. Even previously approved attachment designs should have the job site substrates tested for compliance. Codes, ordinances, and project specifications should also be checked by your local regulatory authorities for compliance before starting the job. It is the responsibility of the building owner, architect, and installation sub-contractor to comply with applicable building codes and regulations.

CRL's testing was performed to assure the user that our Base Shoe and fasteners were tested and passed the code regulations. The attachment steel plates, welds, concrete make-up, and strength are the responsibility of the user as these conditions are beyond our control.

② Typical Dry Glaze Base Shoe Attachments

Base Shoe attachment is extremely critical to the structural integrity of a successful installation. The mounting methods listed below, then shown in detail on pages 140B and 141B, are methods of attachment previously tested. Alternative methods of attachment may be possible, but should be determined after consultation with an engineer.

1. Base Shoe Attachment to Concrete (see page 140B).
2. Base Shoe Attachment to Weld Blocks/Welded to a Steel Substrate (see page 140B).
3. Base Shoe Attachment to Steel Substrate/Fascia Mount or Angle Mount (see page 141B).
4. Base Shoe Attachment when Embedded in Concrete (see page 141B).
5. Base Shoe Attachment to Embedded Steel Strip (see page 141B).

③ Securing the Glass in the Base Shoe

After securing the Base Shoe and checking for plumb, place required quantity of L-Setting Blocks on to either the inside of the Base Shoe's "drop-side" wall or to the bottom edge of the glass panel with the pre-installed adhesive tape and insert into Base Shoe. Install the Safety Seal on the "drop-side." Squeeze Tapers together and push the set half way down into the Base Shoe. Place the Installation/Removal Tool into position onto the Tapers and push them down into the Base Shoe. Crank the Torque Wrench until the wrench clicks and breaks for a few degrees, letting you know the Tapers are locked to the precise measured torque value requirement.

④ Cladding and Finishing Off the Base Shoe

Metal Cladding is available in a variety of architectural finishes and styles. It is attached to the Base Shoe using Very Hi-Bond Tape and Silicone Sealant (see page 177B). Rubber Gasket material dresses off the space between the glass and Base Shoe, giving a clean, uniform appearance.

⑤ Attaching the Top Cap Rail

Secure the Rigid Vinyl Protective Insert in Cap Rail using our 95CBL Silicone (see page 125B). Apply a bead of 95CBL Silicone on the top edge of the glass and shims if necessary, and then slip the Cap Rail with Insert down over the glass. Apply even pressure until Cap Rail is firmly seated. Shim as required and caulk on both sides of glass at pocket bottom for a clean, finished look.

⑥ Attaching the Hand Rail

The Railing can be attached to the glass by using Hand Rail Brackets designed for glass attachment. These Brackets require the glass having a 3/4" (19 mm) hole drilled in it before tempering.

Complete Installation, Cleaning, and Refinishing Instructions are available on our web site at **crlaurence.com**

go to crlaurence.com to search for

taper-loc | Search

or enter the Catalog Number for complete product information

120B

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FREE Fax: (800) 262-3299
From Anywhere in the U.S. or Canada

CRL US ALUMINUM

CRL TAPER-LOC® Dry Glaze Base Shoe Alignment System

Seven Easy Steps to Accurate Alignment

- Accurately Aligns Base Shoe to Ensure Glass Panels Will Be Within 1/32" (.8 mm) of Plumb When Installed

The CRL TAPER-LOC® Dry Glaze Base Shoe Alignment System gives the installer the ability to accurately shim and install the Base Shoe easily and quickly. Proper Base Shoe alignment is a key element to the TAPER-LOC® System.

TAPER-LOC X
DRY GLAZE RAILING SYSTEM

U.S. Patents 8,122,654 and 8,201,366. Commonwealth of Australia Patents 2008207524 and 2012202256

Step 1:
Align the "PAL" Tool with Base Shoe and point toward the Laser Target set at other end of Base Shoe to follow the grade.

Step 2:
Use the "PAL" Tool to ensure the Base Shoe is vertically plumb at all points.

Step 3:
Slide Shim Strips under Base Shoe to fill gaps before fastening.

Step 4:
Adhere the L-Setting Blocks to the "drop-side" wall inside the Base Shoe, and install the Safety-Seal on the "drop-side".

Step 5:
Install glass and insert the Taper set half way down into the Base Shoe as shown, opposite the L-Setting Block, and then squeeze the Tapers together finger tight.

Step 6:
Place the Installation/ Removal Tool into position onto the Tapers and push them down into the Base Shoe.

Step 7:
Crank the Torque Wrench until the wrench clicks and breaks for a few degrees, letting you know the Tapers are locked to the correct measured torque.

CRL PAL Plumb/Angle/Level Locator Kit

- Plumb and Level All Your TAPER-LOC® Dry Glaze Railing Installs
- Works With All CRL Railing and Windscreen Base Shoes
- Electronic Angle Finder for Custom Corners and Stairway Applications

ONLINE *ARCHITECTURAL*
R E S O U R C E S

This CRL PAL Plumb/Angle/Level Locator Kit was designed to assist you with level and plumb installations of all CRL railing Base Shoes. This innovative tool levels the shoe in both the vertical and horizontal orientations.

Each Kit includes: a Laser Tool with Case, a Base Shoe Alignment Adapter, a Laser Target, a Chalk Line, an 8 ounce bottle of Blue Chalk Refill, a Black Listo® Marking Pencil, a Blue Sharpie® Pen, and instructions, all in a Molded Carrying Case.

VIDEO ▶

Listo is a registered trademark of Listo Pencil Corporation.
Sharpie is a registered trademark of Sanford L.P.

CAT. NO. PAL1K
Minimum order is one each.

CRL PAL Plumb/Angle/Level Locator Laser Tool

- Use for Setting Glass Base Shoe Prior to Installing TAPER-LOC® Dry Glaze System
- Angle Measurements in Degrees
- Displays Angle and Inclination Simultaneously

This CRL PAL Plumb/Angle/Level Locator Laser Tool displays angle measurements in degrees. Both the angle and inclination measurements are displayed simultaneously. Includes: Laser Tool, three "AA" Batteries, and Carrying Case.

CAT. NO. 406065
Minimum order is one each.

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CRL U.S. ALUMINUM

CRL GRS DRY GLAZE SYSTEM

CRL TAPER-LOC® Installation/Removal Tool Kit for Glass Railing and Windscreen Systems

- Works With All of CRL's TAPER-LOC® Systems and Components
- Features Integrated Torque Wrench Designed for Precise Lock-Up Force
- Supports All Mounting Methods
- Reduces Installation Time by 50%
- Easily Allows You to Remove, Adjust or Replace Glass Panels
- Can Be Used With Monolithic Tempered and Laminated Tempered Glass

TAPER-LOC X
DRY GLAZE RAILING SYSTEM

U.S. Patents 8,122,654 and 8,201,366.
Commonwealth of Australia
Patents 2008207524 and 2012202256

* Additional Tool Replacement Blades are available go to **crlaurence.com/taper-loc-tools**

VIDEO ▶

CAT. NO. TLK12
Installation/Removal Tool Kit

The Installation/Removal Tool is used for tightening TAPER-LOC® Tapers in the channel of the Base Shoe. It has an Integrated Torque Wrench that applies the precise lock-up force necessary to set the glass panels. Simply set in place and turn the wrench until a clicking sound is heard. This assures the Tapers have been locked together. It can also remove all models of TAPER-LOC® Tapers when glass panels need to be reset or replaced. You can also use the Tool for Base Shoe that has

been recessed into the floor by switching the standard Compression Blades (blue) with the longer Recessed Blades (red), both included. The Tool Kit comes with the Integrated Torque Wrench, a Glass Railing Setting Tool for Monolithic Glass, a Laminated Glass Setting Tool, a pair of Glass Setting Roller Blocks, three sets of color-coded Blades (yellow, red, and blue), matching Pusher Plates, and Instructions, all in a Molded Carrying Case.

1

Place the TAPER-LOC® Tapers into Base Shoe finger tight at designated spacing.

2

Place the TAPER-LOC® Installation/Removal Tool into position directly over the Taper Set.

3

Tighten the TAPER-LOC® components using our measured Torque Wrench and you are done.

How to Remove TAPER-LOC® Tapers

To adjust or remove a glass panel that is already installed with TAPER-LOC® Tapers, use the standard TLK12 Installation/Removal Tool Kit and follow these steps.

Step 1
For adjustment or removal of the glass panel, the Cat. No. TLK12 Installation/Removal Tool and Cat. No. BL992 2" (51 mm) Blue Masking Tape will be required.

Step 2
Apply the 2" (51 mm) masking tape to the finished cladded surface to protect it during this removal/adjustment process.

Step 3
Insert the TLK12 Installation/Removal Tool into position, reverse the torque setting, and apply force to open the Tapers.

Step 4
Complete the process by removing the Tapers from the Base Shoe, then adjust or replace the panel using normal installation procedures.

NOTE: For removing stuck TAPER-LOC® Tapers use Cat. No. TLEX1 Extraction Tool (See Page 124B).

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122B

TOLL Phone: (800) 421-6144
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From Anywhere in the U.S. or Canada

CRL US ALUMINUM

CRL TAPER-LOC®
Installation/Removal Tool
Replacement Standard Blades

• For Our TAPER-LOC® *'X'* Tapers

These CRL Standard Base Shoe Blades are designed for surface mounting of Guard Rails and Railings when using either of the TLK5, TLK9, or TLK12 TAPER-LOC® Installation/Removal Tools. Blades install easily using the supplied screws. Includes two Blades, one Pusher Plate, six Screws, and one Allen Wrench per pack. Minimum order is one pack.
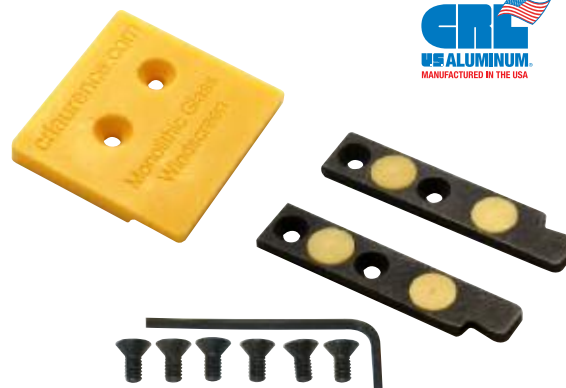
For Use With TLK5, TLK9 and TLK12 TAPER-LOC® Installation/Removal Tools for Surface Mount and Railing Installs

CAT. NO. TLB5

CRL TAPER-LOC®
Installation/Removal Tool
Replacement Extended Blades

• For Our TAPER-LOC® *'X'* Tapers

These CRL Extended Blades work with both the TLK5, TLK9, and TLK12 TAPER-LOC® Installation/Removal Tools for fascia mount or recessed base shoe conditions. The Blades install easily using the supplied screws. Includes two Blades, one Pusher Plate, six Screws, and one Allen Wrench per pack. Minimum order is one pack.

For Use With TLK5, TLK9 and TLK12 TAPER-LOC® Installation/Removal Tools for Installs When Base Shoe is Recessed Into the Floor or in Fascia Mount Conditions

CAT. NO. TLB6R

CRL TAPER-LOC®
Installation/Removal Tool
Replacement Windscreen Blades

• For Windscreen Installs and Our New *'XA'* Adjustable TAPER-LOC® System

These CRL Windscreen Base Shoe Blades are designed to work with the TLK5, TLK9, and TLK12 TAPER-LOC® Installation/Removal Tools. Blades install easily using the supplied screws. Includes two Blades, one Pusher Plate, six Screws, and one Allen Wrench per pack. Minimum order is one pack.

For Use With TLK5, TLK9 and TLK12 TAPER-LOC® Installation/Removal Tools for Windscreen Installs and *'XA'* Adjustable Tapers

CAT. NO. TLB3

CRL Replacement Blade Kit

• Works With All Monolithic Tempered and Laminated Tempered Glass Installs

This Replacement Blade Kit enables one tool to work with all different base shoes and glass thicknesses. The Kit consists of: one pair of Yellow Blades and Pusher Plate for monolithic windscreen and *'XA'* Adjustable Taper installs; one pair of Blue Blades and Pusher Plate for monolithic surface mount guard rail and railing installs; one pair of Red Blades and Pusher Plate for monolithic recessed mount guard rail and railing mounts; one black Pusher Plate for all laminated glass installs, and a Laminated Glass Setting Tool. Minimum order is one each.

CAT. NO. TLK7

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123B

TOLL Phone: (800) 421-6144
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From Anywhere in the U.S. or Canada

CRL Glass Railing Setting Tools

- For Use With CRL's Dry Glaze TAPER-LOC® System
- Stabilizes and Centers the Glass Panel in the Base Shoe Pocket During Installation of Tapers

MODEL **NEW!**

CAT. NO. GWST2
For Monolithic Glass

CAT. NO. LTLST3
For Laminated Glass

These CRL Glass Railing Setting Tools are designed to stabilize and center glass panels in aluminum base shoe during installation of CRL's Dry Glazed TAPER-LOC® Tapers. The temporary Setting Tools also secure the glass panels in place, giving the installer time to adjust or align as required. Minimum order is one each.

CRL TAPER-LOC® Angle Adjustment Tool

- Safely Adjusts *'XA'* Series Tapers on Drop-Side

The TAPER-LOC® 'XA' System provides angular adjustment of the glass panel to correct for misalignment and glass curvature. This specialized Tool will adjust the outside (drop-side) Tapers without the need for scaffolding or inconvenient leaning over the railing. Simply engage the tool with pre-installed Tapers and squeeze together with light pressure. Both ends of the Tool are functional, and holes are provided for attachment of a safety lanyard (not included). Minimum order is one each.
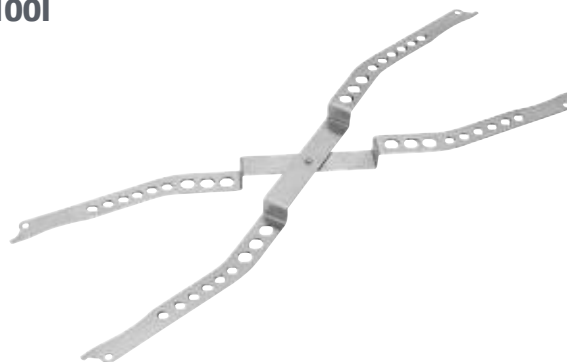
CAT. NO. TLXAAT

CRL TAPER-LOC® Extraction Tool

- For Extraction of Stuck TAPER-LOC® Tapers
- Provides Extra Reach and Leverage
- Works With All TAPER-LOC® Taper Sets

Use this Extraction Tool to remove TAPER-LOC® Tapers that have become stuck in the aluminum base shoe and cannot be removed by normal methods with the TLK12 Installation/Removal Tool. Minimum order is one each.

CAT. NO. TLEX1

CRL Rubber Spacing Block and Sealing Pad Installation Tool

- Makes Positioning of Spacing Blocks or Sealing Pads Fast and Easy

Simply push the CRL Rubber Spacing Block, with the adhesive side out, into the notch at the end of the Installation Tool, and then remove the release paper. Slip the Tool into Base Shoe pocket and slide it toward the edge of the glass panel. When contact is made push firmly, and then slide the Tool back. The Spacing Block is now in the proper location. To install Sealing Pads, place them in the Base Shoe pocket, and then push into place with the Tool. Minimum order is one each.

CAT. NO. RSB1T

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taper-loc-tools   Search

124B

or enter the Catalog Number for complete product information

TOLL Phone: (800) 421-6144
FREE Fax: (800) 262-3299
From Anywhere in the U.S. or Canada

CRL US ALUMINUM

CRL 95C Silicone Building Sealant

SPEC. DATA ONLINE

SDS ONLINE

- Excellent Primerless Adhesion to Most Common Construction Substrates
- Excellent Adhesive for Attaching Top Cap Rail
- Long Tooling Time, All Temperature Gunning, Perfect for Finishing Off Top Pocket of Glass Railing Base Shoes

10.3 Fl. Oz. (305 ml) Cartridges;
30 Cartridge Per Case;
1440 Cartridges Per Pallet

CRL 95C Silicone is a one part, medium modulus, neutral cure formulation that cures to a durable and flexible silicone rubber building joint seal. It can accommodate ±50 percent joint movement in properly designed joints. It is designed for sealing expansion and control joints precast concrete panels and metal curtain walls; non-structural glazing of glass, metal and plastic, as well as waterproofing applications, including perimeter sealing of doors and windows.

CRL 95C forms a durable, flexible, watertight bond with most building materials in any combination of glass, ceramics, plastics, stone, masonry, wood, steel, anodized and mill-finished aluminum, and painted surfaces. CRL 95C can be applied at outdoor temperatures as low as -20°F (-29°C), provided that surfaces are clean, dry, and frost-free, or on surfaces as high as 100°F (38°C). Cured sealant will perform at cold temperatures down to -40°F (-40°C), or at high temperatures up to 350°F (177°C).

20 Fl. Oz. (591 ml) Sausages;
15 Sausages Per Case;
990 Sausages Per Pallet
(Available in Black Only)

- ±50 Percent Joint Movement

CARTRIDGE CAT. NO.	SAUSAGE CAT. NO.	COLOR
95CBL	95CSBL	Black
95CDBRZ	---	Dark Bronze
95CGRY	---	Gray
95CL	---	Limestone
95CW	---	Precast White
95CWHT	---	White

Minimum order: 1 each cartridge, 15 each sausages.

CRL Open Cell Backer Rod

- Open Cell, No Skin, Non-Gassing Rod is Compatible With All Cold-Applied Sealants
- Controls Depth of Sealant and Acts as a Bond Breaker
- Soft, Black Color Rod Compresses Easily

CAT. NO. B0CBR58C
5/8" x 100' (16 mm x 30.5 m)
Per Roll

CAT. NO. B0CBR58
5/8" x 1400' (16 mm x 426.7 m)
Per Carton

CRL Open Cell Backer Rod is soft, round, and easily compressible open cell polyurethane foam. Open Cell Backer Rod is not adversely affected by dynamic joint movement, and its inherent flexibility applies itself to joint variations very easily. It is ideal for use in situations where joint damage has occurred. It eliminates potential sealant failures due to out gassing that occurs when the "skin" of closed cell backer rod is punctured. The black color helps to disguise the backer rod in certain joint applications. CRL Open Cell Backer Rod can be used in temperatures from -65° to 400°F (-54° to 204°C). It is highly recommended for use with high performance sealants such as silicones and urethanes. CRL Open Cell Backer Rod should be used only in vertical and horizontal wall joints. It is not suitable for horizontal traffic joint surfaces like pavement joints. Please visit **crlaurence.com** for additional Backer Rod sizes.

CRL Backer Rod Roller

- Installs Backer Rod in Base Shoe

The unique roller design allows fast and easy installation of backer rod with no more changing of wheels and making adjustments to get the proper depth. The pointed backside of the tool is used to insert the first few inches of the rod. Lightweight aluminum handle. Overall length is 11-1/2" (292 mm). Minimum order is one each.

CAT. NO. SBRR

CRL TAPER-LOC® Demo Kit

- Great for Sales Presentations and Showrooms
- Includes Carrying Case

One each Taper Set for monolithic tempered and laminated tempered glass included in Kit. Cat. No. TLK12 Installation Tool used for demonstration is not included, and must be ordered separately (see page 122B).

CAT. NO.	LANGUAGE	FOR USE IN
TLDK1US	English	U.S. and Canada
TLDK1AU	English	Australia
TLDK1UK	English	Europe
TLDK1DE	German	Europe

Minimum order: 1 each.

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TOLL Phone: (800) 421-6144
FREE Fax: (800) 262-3299
From Anywhere in the U.S. or Canada

CRL US ALUMINUM

CRL Base Shoe Alignment Adapter

- Use With 406065 Laser (See Page 121B) to Adapt to Railing Base Shoe
- Plumb and Level All Your TAPER-LOC® Dry Glaze Railing Installs
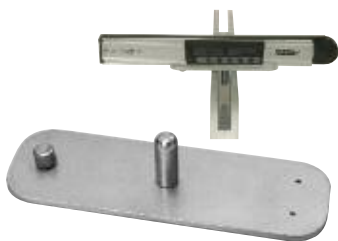
The CRL Base Shoe Alignment Adapter was designed to attach to Cat. No. 406065 Laser (see page 121B) to assist you with level and plumb installations of Railing Base Shoes. Minimum order is one each.

CAT. NO. AMA1

CRL Laser Target for PAL1K Level Locator Kit

- Use With 406065 Laser (See Page 121B) to Level Railing Base Shoes During Install

The CRL Laser Target was designed to work with Cat. No. 406065 Laser (see page 121B) to assist you with level and plumb installations of Railing Base Shoes. Minimum order is one each.

CAT. NO. LT1

CRL Stanley® Professional Chalk Line

- 100 Foot Chalk Line Can Also Be Used as a Plumb Bob

This quality CRL Stanley Chalk Line is made of impact resistant plastic. Felt gasket hugs line, distributes uniform chalk coating. Universal hook attaches to any projection or slot. Can also be used as a plumb bob. When you need to refill the chalk order Cat. No. P8R or P8B (at right). Minimum order is one each.

CAT. NO. ST47099

CRL Chalk Refills

- Available in Blue or Red
- 8 Ounce Bottles

CRL Chalk Refills contain a micro-fine chalk for a perfect line every time. It is available in two colors (blue and red) and is packaged in a non-breakable, 8 Oz. (237 ml) polyethylene bottle with spout that makes it easy to pour.

CAT. NO.	CONTENTS	COLOR
P8R	8 Oz. (237 ml)	Red
P8B	8 Oz. (237 ml)	Blue

Minimum order: 1 each.

CRL Marking Tools

- Work Well on Smooth Surfaces

CAT. NO. MP1
Black Listo® Marking Pen

CAT. NO. 2113338
Sharpie® Blue Fine Point Pen

If you want to write on glossy surfaces, the CRL Listo® Marking Pen is a great choice. Used to mark glass, metal or plastic, its smooth plastic point won't scratch. A heavy-duty pocket clip holds it securely in your pocket, tool belt, cutter pouch, etc. Packed 12 per box, minimum order is one each; black refill leads (Cat. No. MPL11) come 72 per box.

CRL Sharpie® Fine Point Pens are American-made markers that write on anything - plastic, glass, ceramic, metal, enamel, wax paper, rubber, leather, film, cellophane, wood, and much more. Minimum order is one each.

CRL GripPro Impact Performance Gloves

- Shock Absorbing Impact-X Padding
- Available in Five Sizes

CRL GripPro Impact Performance Gloves provide superior protection against injury-causing shock and impact. Made with the finest materials available, they are designed to endure demanding environments while providing wearer comfort.

CAT. NO.	SIZE
GR1PS	Small
GR1PM	Medium
GR1PL	Large
GR1PXL	X-Large
GR1P2X	XX-Large

Minimum order: 1 pair. Sold only by the pair. Sizes can be combined for quantity pricing.

CRL Power Tape Rules

- Ultra Rigid Steel Blades With Two Color Markings

This CRL Power Tape Rule has a nylon coated steel blade with two color markings. Features include double rivet hook connection and easy to read numbers. An active bumper protects both the blade and rivets from retraction shock, ensuring long blade life.

Stanley is a registered trademark of Stanley Logistics, LLC.

- Three Lengths and Two Blade Widths Available
- Positive Lock Button

CAT. NO.	BLADE WIDTH	BLADE LENGTH
54112	5/8" (15.9 mm)	12' (3.6 m)
54125	1" (25.4 mm)	25' (7.6 m)
54133	1" (25.4 mm)	33' (10.1 m)

Minimum order: 1 each. All Tape Rules can be combined for quantity pricing.

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TOLL Phone: (800) 421-6144
FREE Fax: (800) 262-3299
From Anywhere in the U.S. or Canada

CRL US ALUMINUM

System: TAPER-LOC® Glass Railing With 2" (51 mm) Hand Rail

System: TAPER-LOC® Glass Railing With U-Channel Top Cap and 2" (51 mm) Hand Rail

System: TAPER-LOC® Glass Railing With 2" (51 mm) Top Cap and 1-1/2" (38 mm) Hand Rail

System: TAPER-LOC® Glass Railing With 3" (76 mm) Top Cap

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TOLL Phone: (800) 421-6144
FREE   Fax: (800) 262-3299
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CRL US ALUMINUM

The CRL 'All-Glass' Railing System
Installed Using the Wet Glaze Method

① Code Considerations

Model Code Regulations usually require 50 lb./ft. uniform loading or a 200 pound (90 kg) concentrated load to the hand rail at the distance of 42" (1066 mm) above the floor. In our test, concentrated loads of 400 to 800 pounds (181 to 363 kg) were applied at approximately 42" (1066 mm) above the floor surface. Test results and engineering calculations show that the strength of our Base Shoe Extrusion and selected fasteners that were tested would exceed the above-mentioned Model Code loading criteria by a factor of four.

All Base Shoe attachment substrates should be tested for compliance by a structural engineer because steel, concrete, or other attachment substrates can change from job to job. Even previously approved attachment designs should have the job site substrates tested for compliance. Codes, ordinances, and project specifications should also be checked by your local regulatory authorities for compliance before starting the job. It is the responsibility of the building owner, architect, and installation sub-contractor to comply with applicable building codes and regulations.

CRL's testing was performed to assure the user that our Base Shoe and fasteners were tested and passed the code regulations. The attachment steel plates, welds, concrete make-up, and strength are the responsibility of the user as these conditions are beyond our control.

② Typical Wet Glaze Base Shoe Attachments

Base Shoe attachment is extremely critical to the structural integrity of a successful installation. The mounting methods listed below, then shown in detail on pages 140B and 141B, are methods of attachment previously tested. Alternative methods of attachment may be possible, but should be determined after consultation with an engineer.

1. Base Shoe Attachment to Concrete (see page 140B).
2. Base Shoe Attachment to Weld Blocks/Welded to a Steel Substrate (see page 140B).
3. Base Shoe Attachment to Steel Substrate/Fascia Mount or Angle Mount (see page 141B).
4. Base Shoe Attachment when Embedded in Concrete (see page 141B).
5. Base Shoe Attachment to Embedded Steel Strip (see page 141B).

③ Securing the Glass in the Base Shoe

Place Setting and Centering Blocks at quarter points on the bottom edge of glass panel and insert into Base Shoe. Shim for height as required. Shim to plumb glass as required or use the CRL Clamp and Alignment Fixture (see page 130B). Mix Expanding Cement and apply to area between the glass and Base Shoe using CRL Pouring Ramp, Pump, or Dispenser Bottle (see page 131B).

④ Cladding and Finishing Off the Base Shoe

Metal Cladding is available in a variety of architectural finishes and styles. It is attached to the Base Shoe using Very Hi-Bond Tape and Silicone Sealant (see page 177B). Rubber Gasket material dresses off the space between the glass and Base Shoe, giving a clean, uniform appearance.

⑤ Attaching the Top Cap Rail
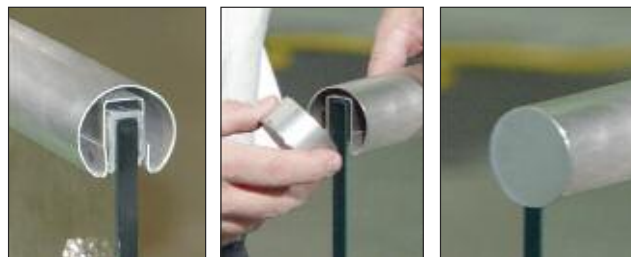
Secure the Rigid Vinyl or Rubber Protective Insert in Cap Rail using our 95CBL Silicone (see page 125B). Apply a bead of 95CBL Silicone on the top edge of the glass and shims if necessary, and then slip the Cap Rail with Insert down over the glass. Apply even pressure until Cap Rail is firmly seated. Shim as required and caulk on both sides of glass at pocket bottom for a clean, finished look.

⑥ Attaching the Hand Rail

The Railing can be attached to the glass by using Hand Rail Brackets designed for glass attachment. These Brackets require the glass having a 3/4" (19 mm) hole drilled in it before tempering.

NOTE: CRL Recommends Consulting with the Glass Fabricator Prior to Wet Setting Laminated Tempered Glass.

COMPLETE INSTALLATION, CLEANING, AND REFINISHING INSTRUCTIONS ARE AVAILABLE UPON REQUEST
You may also view them on our web site at **crlaurence.com**

go to crlaurence.com to search for
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128B

TOLL Phone: (800) 421-6144
FREE Fax: (800) 262-3299
From Anywhere in the U.S. or Canada

CRL US ALUMINUM

The CRL GRS Wet Glaze System

• All You Need When the "Wet Pour"
  Method is Required or Preferred

Wet Glaze installations basically secure lites of 1/2" (12 mm), 15 mm, and 3/4" (19 mm) tempered glass in engineered and approved Base Shoes with expanding cement. Our goal was to take an industry approved installation system and make it better.

For example, using a level and shims between the glass and Base Shoe will still help make the glass plumb. However, using our Cat. No. GRAT1 Clamp and Alignment Fixture in conjunction with a laser will reduce your installation time. The Clamp and Alignment Fixture is ideal for mezzanine installations where reaching over the rail to place shims between the glass and Base Shoe is unsafe.

With our Clamp and Alignment Fixture, all attachments, alignment of the glass, and clamping in place can be achieved from the floor

side (safe side) of the installation. The Fixture secures to the Base Shoe and glass with adjustable clamps. Alignment is achieved by turning the adjustment bolt in or out until plumb is achieved. After that, the Fixture holds the glass in place until the expanding cement cures. The Fixture can then be easily removed by sliding it up the gap between the glass panels.

The use of each new tool or accessory is completely described in our Wet Glaze Installation Instructions. Below is a selection of GRS Wet Glaze System components which can be ordered separately. You can also view these at **crlaurence.com/base-shoe-tools**.

CRL Wet Glaze Installation Tools.
See page 130B.
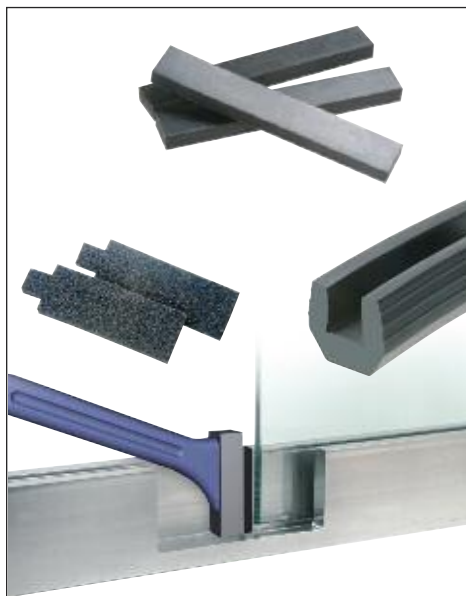
Glass Spacing and Centering Accessories.
See pages 119B, 130B, 133B.

Expanding Cement Delivery and
Mixing Accessories. See pages 131B-132B.

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129B

TOLL Phone: (800) 421-6144
FREE Fax: (800) 262-3299
From Anywhere in the U.S. or Canada

CRL US ALUMINUM

CRL Wet Glaze Alignment and Securing System

Use CRL Wet Glaze Alignment and Securing System tools to align the glass panels, and hold them in position while the expanding cement sets. Additional Clamp and Alignment Fixtures allow you to do multiple panel pours.

CRL Clamp and Alignment Fixture

- Secures and Aligns the Glass
- Plumb Within 1/32" (.8 mm) When Used With a Laser
- Retains Position Until Cement Sets

CAT. NO. GRAT1
Minimum order is one each.

The CRL Clamp and Alignment Fixture is a dual purpose tool. It not only aligns the glass, but can also be used to secure the cladding and hold it in place. A simple turn of the knob moves the glass in or out to achieve a plumb position.

CRL PAL Plumb/Angle/Level Locator Kit

- Plumb and Level All Your TAPER-LOC® Railing Installs
- Works With All CRL Guard Rail and Windscreen Base Shoes
- Electronic Angle Finder for Custom Corners and Stairway Applications

ONLINE *INSTALLATION RESOURCES*

The CRL PAL Plumb/Angle/Level Locator Kit is designed to assist you with level and plumb installations of base shoe for railing and windscreen installations. This innovative tool levels the base shoe in both the vertical and horizontal orientations. Perfect for use with all TAPER-LOC® installs. Each kit includes: a Laser Tool with Case, a Base Shoe Alignment Adapter, a Laser Target, a Chalk Line, an 8 oz. bottle of Blue Chalk Refill, a Black Listo® Marking Pencil, a Blue Sharpie® Pen, and instructions, all in a molded carrying case.

VIDEO ▶

CAT. NO. PAL1K
Minimum order is one each.

Five Easy Steps to Accurate Alignment

STEP 1: Install Base Shoe with CRL's PAL Plumb/Angle/Level Locator Kit

STEP 2: Install glass panels with Setting/Centering Blocks and Sealing Pads between them to control the pour.

STEP 3: Attach the Clamp and Alignment Fixture.

STEP 4: Turn adjustment knob on the Clamp and Alignment Fixture until the glass is plumb.

STEP 5: Pour in Expanding Cement to 3/8" (10 mm) below the top. Allow adequate time for it to set.

CRL Glass Railing Setting and Centering Blocks

- Easily Center Glass Panels in Hand Rail Base Shoe
- Support Glass Panels for Expanding Cement Installations

CRL Setting and Centering Blocks are pre-cut 4" (102 mm) pieces made of black EPDM rubber for durability and longevity. CRL recommends two 4" (102 mm) pieces located at quarter points along the bottom edge of each glass panel.

NOTE: Three sizes are also available in 25' (7.6 m) rolls that can be cut to any length.

Listo is a registered trademark of Listo Pencil Corporation.
Sharpie is a registered trademark of Sanford, L. P.

3/8" (10 mm) • 7/8" (22 mm) • W

CAT. NO.	GLASS THICKNESS	BASE SHOE SERIES	"W" WIDTH	PACKAGING
GR4UB4	15 mm ●	B6S, B6N, 8B58	1-1/4" (32 mm)	20 each 4" (102 mm) per Pack*
GR5UB4	1/2" (12 mm) ●	B5S, B5T, B5L, B5A, 8B	1" (25 mm)	20 each 4" (102 mm) per Pack*
GR6UB4	5/8" (16 mm) ●	B6N, B6S, 8B58	1-1/8" (30 mm)	20 each 4" (102 mm) per Pack*
GR7UB4	3/4" (19 mm) ●	B7S, 8B34	1-1/4" (32 mm)	20 each 4" (102 mm) per Pack*
LGR56UB4	9/16" (13.52 mm)**	L56S, 9BL56	1-1/4" (32 mm)	20 each 4" (102 mm) per Pack*
LGR8UB4	27/32" (21.52 mm)**	L21S, 9BL21	1-5/8" (41 mm)	20 each 4" (102 mm) per Pack*
LGR10UB4	1-1/16" (25.52 mm)**	L25S	1-3/4" (44 mm)	20 each 4" (102 mm) per Pack*
GR5UB25	1/2" (12 mm) ●	B5S, B5T, B5L, B5A, 8B	1" (25 mm)	25' (7.6 m) per Roll▲
GR6UB25	5/8" (16 mm) ●	B7S, 8B34	1-1/4" (32 mm)	25' (7.6 m) per Roll▲
GR7UB25	3/4" (19 mm) ●	B7S, 8B34	1-1/4" (32 mm)	25' (7.6 m) per Roll▲

*Minimum order for 4" (102 mm) pieces is 20 each. Must be ordered in increments of 20. ▲ Minimum order: 1 roll. ● Monolithic Glass. ** Laminated Glass.

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TOLL Phone: (800) 421-6144
FREE Fax: (800) 262-3299
From Anywhere in the U.S. or Canada

CRL US ALUMINUM

or enter the Catalog Number for complete product information

CRL Wet Glaze Pump and Accessories

- Portable, Lightweight, Compact Delivery System for Expanding Cements
- Dramatically Increases Speed of Application
- On/Off Control at Point of Delivery
- Quick and Easy Hose Replacement

When CRL decided to enter the Glass Railing market, we went at it in typical CRL fashion and asked the question "How can we improve on the antiquated processes and equipment currently being used to benefit our customers?" So when it came time to look at the way that the expanding cement was being delivered to the Base Shoe, we knew we had to find a better way. We did just that by developing our Wet Glaze Pump and Accessories.

The Wet Glaze Pump has been designed to reduce the labor associated with the application of expanding cement to Hand Rail Base Shoe, and to improve the quality, efficiency, and effectiveness of the final assembly of the Base Shoe and glass. The Wet Glaze Pump not only increases speed of application dramatically, it also offers superior control over the flow rate and delivery location than that of manual applicators.

This unique delivery system utilizes a pair of rollers fixed to a rotating disk that squeezes the cement through flexible tubing. Since the tubing is the only thing to come in contact with the cement, there are no seals to leak, giving you a virtually maintenance free pump.

Simply mix your cement in the mixing bucket, insert the end of the Inlet Hose into the mixture, and depress the handy ON/OFF Switch located on the Delivery Nozzle. The Pump will immediately start to move the cement through the hose. Purge any excess water from the hose and release the ON/OFF Switch. You are now ready to start pumping cement into the Base Shoe at a rate of 11 feet (3.3 m) per minute.

CAT. NO. GRP1
Pump Kit Includes: One Pump with Hoses, One Nozzle, One Momentary ON/OFF Switch, Two 5 Gallon Buckets, Two Measuring Pitchers, One Plastic Scoop, One Mixing Spoon, One GFC1 15A Ground Fault Interrupt Device, and One GRP2 Replacement Hose Kit.
NOTE: Clamp and Alignment Fixture not included. See page 130B for information. Minimum order is one each.

CAT. NO. GRP2
Replacement Hose Kit Includes: Hoses, One Nozzle, and Clamps (No ON/OFF Switch). Minimum order is one each.

Details on Kit components are available from CRL Railing Technical Sales or the CRL web site at **crlaurence.com**.

CRL Pouring Ramp for Base Shoe Applications Using Expanding Cements

- Neat and Effective Manual Delivery of Expanding Cements
- Shields Gasket Retention Groove in Base Shoe
- Wide Delivery Area

The CRL Pouring Ramp provides a wide delivery area for mess-free pouring of expanding cement into Base Shoe. It shields the gasket retention groove area in the Base Shoe, thereby eliminating further clean up. You will find the Pouring Ramp to be a neat and effective method to manually deliver the expansion cement used in our Wet Glaze System.

CRL Dispensing Bottle for Expanding Cements

- Ideal for Small, Hard to Pour Areas
- 32 Ounce Capacity

This is a durable plastic squeeze bottle that ideally applies the expanding cement to small, hard to pour areas. This clean and neat Dispensing Bottle saves you clean up time on the job, and makes spot pours easy. Bottle capacity is 32 fluid ounces (946 ml).
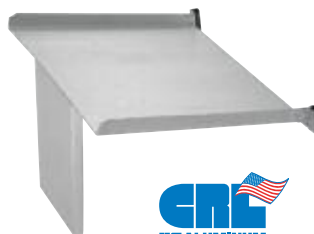
CAT. NO.	DESCRIPTION
GRP35	Cement Pouring Ramp
Minimum order: 1 each.	

CAT. NO.	DESCRIPTION
GRP36	Cement Dispensing Bottle
Minimum order: 1 each.	

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TOLL Phone: (800) 421-6144
FREE Fax: (800) 262-3299
From Anywhere in the U.S. or Canada

CRL GRS WET GLAZE SYSTEM

CRL Kwixset™ and Rockite™ Expanding Cements

SPEC. DATA ONLINE

SDS ONLINE

- Recommended on All Wet Glaze GRS Installations
- Great for Setting Glass in Heavy Aluminum Base Shoe
- Fast Setting, They Will Not Shrink or Crack When Used as Directed

CRL Kwixset™ and Rockite™ are gray, hydraulic type cements that expand as they set, and are specially formulated to produce unexcelled strength and bonding qualities. When mixed with water they pour into place smoothly. Both set within 15 to 20 minutes, and when fully cured develop compression strengths in excess of 8000 pounds per square inch.

Kwixset™ is not affected by standing water, making it the right cement for exterior use, while the more economical Rockite™ is great for any interior application. Use either product to set railings, posts, and other fixtures because they will not shrink, crack or dry out. **NOTE:** Consult with your local temperer for use with laminated glass.

For EXTERIOR and INTERIOR Applications

For INTERIOR Applications Only

KWIXSET™ CEMENT

CAT. NO.	WEIGHT
KWX25	25 Pounds (11.3 kg)
KWX50	50 Pounds (22.7 kg)

Minimum order: 1 each. NOTE: Kwixset™ can be used in temperatures as low as 40°F (4°C).

ROCKITE™ CEMENT

CAT. NO.	WEIGHT
ROCK01	1 Pound (.453 kg)
ROCK05	5 Pounds (2.27 kg)
ROCK10	10 Pounds (4.54 kg)
ROCK50	50 Pounds (22.7 kg)

Minimum order: 1 each. NOTE: Rockite™ can be used in temperatures as low as 25°F (-4°C).

CRL Kwixset™ and Rockite™ Expanding Cements

BASE SHOE RUNNING FEET	CEMENT POUNDS	VOLUME OZ.	MILLILITERS	WATER PINTS	FLUID OZ.	MILLILITERS
4 (1.2 m)	5 (2.27 kg)	67.6	2000	1-1/4	20	591.5
8 (2.4 m)	10 (4.54 kg)	135.2	4000	2-1/2	40	1183
12 (3.6 m)	15 (6.80 kg)	202.8	6000	3-3/4	60	1774.5

These mixing proportions are guidelines based on what we feel is the best way to mix and apply cement, and we make no guarantee or warranty to its performance. We suggest you make a sample batch for testing purposes to determine the exact formula that is right for your application before beginning any job.

EXAMPLE #1: For 8 feet (2.4 m) of Base Shoe you need 10 pounds of expanding cement and 40 ounces of water for the correct mix.

EXAMPLE #2: For 12 feet (3.6 m) of Base Shoe you need 6000 milliliters of expanding cement and 1774.5 milliliters of water for the correct mix.

CRL Cement Mixing Kit and Mixing Accessories

- Everything Needed to Accurately Measure and Mix Expanding Cement
- Buy the Kit or Order Items Individually

We have developed a kit with a combination of accessories that makes it easier to get the proper mixture of water and expanding cement. The handy 3.5 gallon (13.25 liter) Pouring Pail has a spout and handle for easy delivery of the mixture. The Plastic Scoop and Mixing Spoon complete the kit. Use our Cat. No. GRP35 Cement Pouring Ramp (see page 131B) for a neat and effective method of directing the mixture just where you want it.

CAT. NO.	DESCRIPTION
GRP30	Cement Mixing Kit with one of each: 1000cc Pitcher (Water); 3000cc Pitcher (Dry Cement), 3.5 Gallon Pouring Pail, Plastic Scoop, Mixing Spoon
GRP31	Set of Mixing Pitchers: 1000cc (Water), 3000cc (Dry Cement)
GRP32	3.5 Gallon Pouring Pail
GRP33	Plastic Scoop
GRP34	Mixing Spoon
MX91	Paddle Mixer

Minimum order: 1 each.

CAT. NO. MX91

Paddle Mixer (sold separately)

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132B

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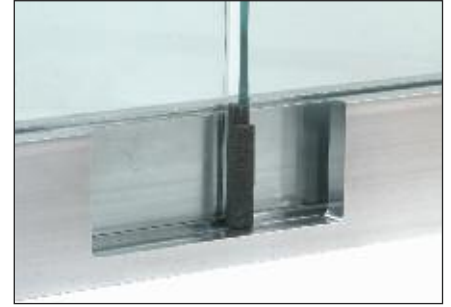
CRL US ALUMINUM

CRL High Density Foam Spacing and Sealing Pads

SDS ONLINE

- Die Cut Foam Pad With Adhesive on One Side
- Fast and Accurate Spacing and Sealing of Glass Panels
- Can Be Adhered Together to Increase the Gap Between the Glass Panels in 1/4" (6 mm) Increments
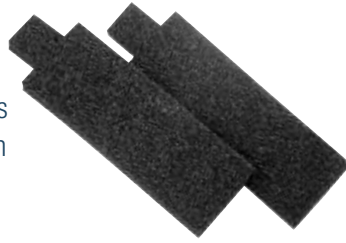
These High Density Foam Pads not only act as spacers between panels of glass, they also create a seal at the end of selected panels, acting as a dam for your desired pour area. They are easily installed and perfectly aligned every time using the CRL Rubber Spacing Block and Sealing Pad Installation Tool (see below). The adhesive on one side allows the pads to be adhered together so spacing can be increased in 1/4" (6 mm) increments to meet your needs. Use with Rigid Rubber Spacing Blocks on slant pours to prevent glass movement during installation. **NOTE:** You must cut 5/8" (16 mm) off of the length of the Spacing and Sealing Pad when used with B5L Series Low Profile Base Shoe.

CAT. NO.	FITS BASE SHOE SERIES	GLASS THICKNESS	PAD WIDTH	PAD THICKNESS	PAD LENGTH	QTY/PKG
GR5NSB	8B, B5A, B5L, B5S, B5T, B6N, B6S, 9BL56, L56S	1/2" (12 mm)	1-1/16" (27 mm)	1/4" (6 mm)	3-7/16" (87 mm)	20
GR7NSB	8B34, B7S, 9BL68, L68S, 9BL21, L21S	3/4" (19 mm)	1-5/16" (33 mm)	1/4" (6 mm)	3-7/16" (87 mm)	20

Minimum order: 20 each. Pads must be ordered in increments of 20.

CRL Rigid Rubber Spacing Blocks With Adhesive

SDS ONLINE

- Adhesive Back Holds Spacing Block in Place
- Maintains Even Spacing of Glass Panels

CRL Rigid Rubber Spacing Blocks with Adhesive provide even spacing between glass panels. They are always necessary on slant stair installations to prevent the glass panels from sliding down. They are easily installed and perfectly aligned every time using the CRL Rubber Spacing Block and Sealing Pad Installation Tool (see below). Adhesive back holds the Spacing Blocks in position. **NOTE:** You must cut 5/8" (16 mm) off the length of the Spacing Block when used with B5L Series Low Profile Base Shoe.

CAT. NO.	FITS BASE SHOE SERIES	WIDTH	THICKNESS	LENGTH	QTY/PKG
GR5ASB	8B, B5A, B5S, B5T, B5L, 8B58, B6N, B6S, 9BL56, L56S	1/2" (12 mm)	1/4" (6 mm)	3-5/16" (84 mm)	100
GR7ASB	8B34, B7S, 9BL68, L68S	3/4" (19 mm)	1/4" (6 mm)	3-5/16" (84 mm)	100
LGR21SB	9BL21, L21S	13/16" (21 mm)	1/4" (6 mm)	3-5/16" (84 mm)	100
LGR25SB	L25S	1-1/16" (27 mm)	1/4" (6 mm)	3-5/16" (84 mm)	100

Minimum order: 100 each. Must be ordered in increments of 100.

CRL Rubber Spacing Block and Sealing Pad Installation Tool

CRL US ALUMINUM. MANUFACTURED IN THE USA

- Makes Positioning of Spacing Blocks or Sealing Pads Fast and Easy

Simply push the CRL Rubber Spacing Block, with the adhesive side out, into the notch at the end of the Installation Tool, and then remove the release paper. Slip the Tool into Base Shoe pocket and slide it toward the edge of the glass panel. When contact is made push firmly, and then slide the Tool back. The Spacing Block is now in the proper location. To install Sealing Pads, place them in the Base Shoe pocket, and then push into place with the Tool.

CAT. NO.	DESCRIPTION
RSB1T	Rubber Spacing Block and Sealing Pad Installation Tool

Minimum order: 1 each.

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US ALUMINUM

CRL Balustrades, Guard Rails, and Hand Rails

Not all CRL Glass Rail Systems and materials are suitable for each project specification and safety requirement. Since most building codes make clear the difference between Hand Rails and Guard Rails, you should consult the local code. Normally Hand Rails are noted as used for guidance and support, while Guard Rails are intended to prevent accidental falls.

Typically, Hand Rail heights range between 34" (863 mm) and 38" (965 mm), while Guard Rails are typically 42" (1066 mm) in height. It is sometimes noted in the code that the Guard Rail must include a Hand Rail as well. Again, check your local codes before beginning any Hand Rail or Guard Rail project.

Hand Rail Balustrade
(Residential Stairs)

The Hand Grip portion of the Hand Rails shall not be less than 1-1/4" (32 mm) and no more than 2" (51 mm) in cross sectional dimension.

Top of Hand Rail shall not be placed less than 34" (863 mm) and no more than 38" (965 mm) above the toe of step.

Glass Baluster
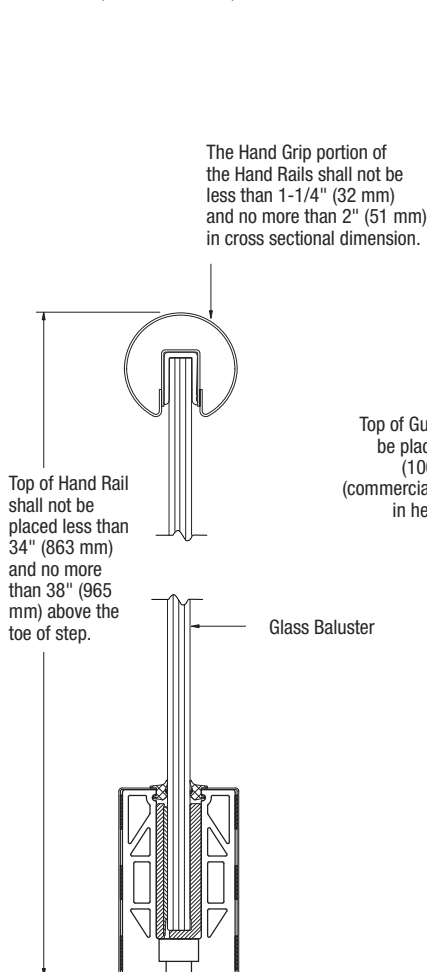
Guard Rail Balustrade
(Residential and Commercial)

1-1/2" (38 mm) to 4" (102 mm) Guard Rail Cap

Top of Guard Rail shall not be placed less than 42" (1066 mm) in height (commercial); 36" (914 mm) in height (residential).

Glass Baluster

Top of Guard Rail shall not be placed less than 42" (1066 mm) in height (commercial); 36" (914 mm) in height (residential).
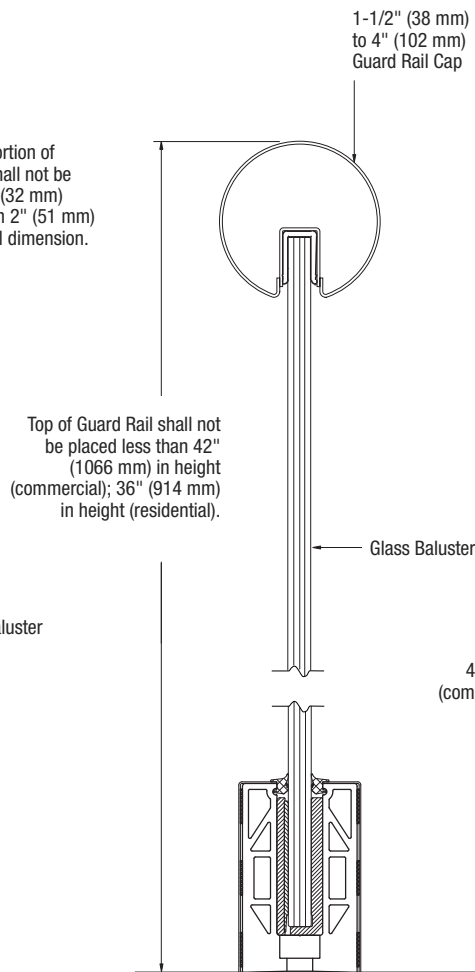
Hand Rail/Guard Rail
(Residential and Commercial)

1-1/2" (38 mm) to 4" (102 mm) Guard Rail Cap

The Hand Grip portion of the Hand Rails shall not be less than 1-1/4" (32 mm) and no more than 2" (51 mm) in cross sectional dimension.

1-1/2" (38 mm) or 2" (51 mm)

1-1/2" (38 mm) Minimum

Top of Hand Rail shall not be placed less than 34" (863 mm) and no more than 38" (965 mm) above landings, ramps or the toe of step.

Glass Baluster
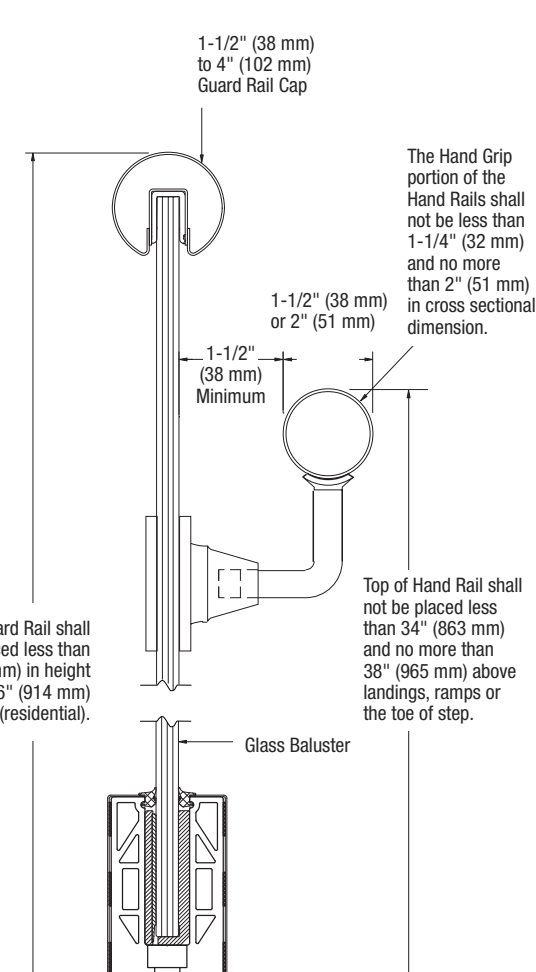
Drawings and Specifications - How to Get Them
Let CRL Be a Team Player on All Your Railing Hardware Projects!

05 7310 CRL GRS TAPER-LOC® Dry Glaze Glass Railing System
For 1/2" to 3/4" (12 to 19 mm) Monolithic Tempered Glass, Supports All Mounting Methods

1 of 10

CRL-ARCH.com

CRL-ARCH.com is your portal to C.R. Laurence Company Architectural Products and Services. CRL-ARCH.com is a valuable reference tool designed with the architect, engineer, and specifier in mind. Here you will find easy access to CAD drawings, CSI format specifications, engineering reports, LEED® statements, project galleries, architectural case studies, and our extensive library of catalogs.

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Basic Installation Instructions

USE MONOLITHIC TEMPERED GLASS or USE LAMINATED TEMPERED GLASS

1. Glass Railing Base Shoe Installation

Lay out the Base Shoe stock lengths or pre-fabricated shoe sections. Attach the Base Shoe to the substrate using the approved fasteners. Be sure to use the correct mounting hardware and ensure that the Base Shoe is plumb and level.
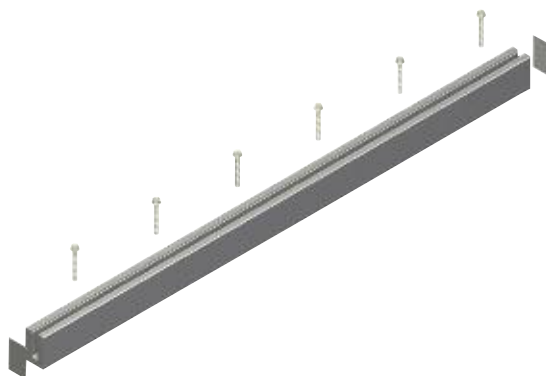
2. Glass Panel Installation

There are two ways of installing the glass panels into the Base Shoe, CRL's Dry Glazed Method and CRL's Wet Glazed Method. For Dry Glazed applications the TAPER-LOC® Tapers will self center the glass panels. The TLK12 Installation/Removal tool mechanically slides the tapers horizontally in the Base Shoe and compresses them together. During installation for Wet Glazed applications remember to plumb and level the glass panels in the Shoe before pouring the expanding cement.
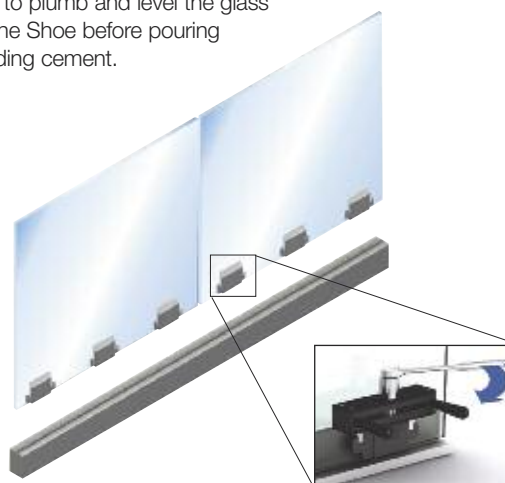
TLK12 Installation/Removal Tool

3. Top Cap and Hand Rail Installation

Position the Top Cap and Hand Rail stock lengths or pre-fabricated sections. Install the Top Cap with the supplied vinyl insert and structural silicone. This will help align the glass panels during installation. After the Top Cap has been completed, install the optional glass mounted Hand Rail Brackets along with the optional Hand Rail, align and position the Hand Rail as required before mechanically attaching in place.

4. Complete

With proper care and maintenance the appearance of your GRS Glass Railing System will last for years. Go to **crlaurence.com** for Care and Cleaning Instructions.

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TOLL Phone: (800) 421-6144 **FREE** Fax: (800) 262-3299 From Anywhere in the U.S. or Canada CRL US ALUMINUM

System: TAPER-LOC® GRS Glass Railing With 2" (51 mm) Top Cap

System: TAPER-LOC® GRS Glass Railing With Glass
Mounted Hand Rail and U-Channel Top Cap

System: TAPER-LOC® GRS Glass Railing With Standoffs,
Glass Mounted Hand Rail, and U-Channel Top Cap

System: TAPER-LOC® GRS Glass Rail With 2-1/2" (63 mm) Top Cap

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CRL
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CRL GRS Monolithic Tempered "Rail Glass"

NEW!

- For Use With CRL's GRS Glass Railing Systems
- All Glass Panels Ship Cut and Tempered, Ready to Install
- Clear Tempered and Low Iron (Starphire) Glass Types Available
- Custom Sizes, Fabrication, Drilling, and Edge Work Available

Designed for interior and exterior glass railing applications, CRL's "Rail Glass" is fabricated and tempered in accordance with Federal Specifications: ANSI Z97.1, CPSC 16, and CFR 1201 standards. Wood crating charges apply (maximum 1500 pounds [680 kg] per crate). Contact CRL's Railing Technical Sales for more information at (800) 421-6144 (U.S.), (877) 421-6144 (Canada), or (323) 588-1281 (International). Ask for Ext. 7730. You can also send email to **railings@crlaurence.com**. **NOTE:** Check your local building codes for glass type required.

Clear Monolithic Tempered

Low Iron Starphire® Monolithic Tempered

ICC ES™
ESR-3269

USE MONOLITHIC TEMPERED GLASS

- Proudly Produced in the U.S.A.

Standard Edge Work

1/2" (12 MM) THICK CLEAR AND LOW IRON STARPHIRE® TEMPERED GLASS

CAT. NO.	SIZE	DESCRIPTION
MG12CC	Custom Size (Specify)	Clear Tempered
MG12LC	Custom Size (Specify)	Low Iron Starphire® Tempered

Minimum order: 1 each. Boxing and crating charges will apply for all orders.

5/8" (15 MM) THICK CLEAR AND LOW IRON STARPHIRE® TEMPERED GLASS

CAT. NO.	SIZE	DESCRIPTION
MG15CC	Custom Size (Specify)	Clear Tempered
MG15LC	Custom Size (Specify)	Low Iron Starphire® Tempered

Minimum order: 1 each. Boxing and crating charges will apply for all orders.

3/4" (19 MM) THICK CLEAR AND LOW IRON STARPHIRE® TEMPERED GLASS

CAT. NO.	SIZE	DESCRIPTION
MG19CC	Custom Size (Specify)	Clear Tempered
MG19LC	Custom Size (Specify)	Low Iron Starphire® Tempered

Minimum order: 1 each. Boxing and crating charges will apply for all orders.

CRL GRS Laminated Tempered "Rail Glass"

NEW!

- Laminated Clear Tempered and Low Iron Starphire® Glass Types Available
- Flat Polished Edges With CRL's "Precise Edge" Technology
- Custom Sizes, Fabrication, and Edge Work Available

CRL's Laminated "Rail Glass" Panels for glass balustrade applications meet the test criteria of ASTM C1172, ANSI Z97.1, CPSC 16, and CFR1201 standards, and are produced with a rigid Ionoplast™ interlayer. Our "Precise Edge" Technology dramatically improves the edge quality of laminated glass and gives each flat polished edge a consistent clean look and feel. Custom sizes, fabrication, and edge work is available. Wood crating charges apply (maximum 1500 pounds [680 kg] per crate). Contact CRL's Railing Technical Sales for more information. **NOTE:** Check your local building codes for glass type required.

Clear Laminated Tempered

Low Iron Starphire® Laminated Tempered

ICC ES™
ESR-3842

USE LAMINATED TEMPERED GLASS

- Proudly Produced in the U.S.A.

Precise Edge Technology

9/16" (13.52 MM) THICK CLEAR AND LOW IRON STARPHIRE® LAMINATED TEMPERED GLASS

CAT. NO.	SIZE	DESCRIPTION
LG13CC	Custom Size (Specify)	Laminated Clear Tempered
LG13LC	Custom Size (Specify)	Laminated Low Iron Starphire® Tempered

Minimum order: 1 each. Boxing and crating charges will apply for all orders.

27/32" (21.52 MM) THICK CLEAR AND LOW IRON STARPHIRE® LAMINATED TEMPERED GLASS

CAT. NO.	SIZE	DESCRIPTION
LG21CC	Custom Size (Specify)	Laminated Clear Tempered
LG21LC	Custom Size (Specify)	Laminated Low Iron Starphire® Tempered

Minimum order: 1 each. Boxing and crating charges will apply for all orders.

11/16" (17.52 MM) THICK CLEAR AND LOW IRON STARPHIRE® LAMINATED TEMPERED GLASS

CAT. NO.	SIZE	DESCRIPTION
LG17CC	Custom Size (Specify)	Laminated Clear Tempered
LG17LC	Custom Size (Specify)	Laminated Low Iron Starphire® Tempered

Minimum order: 1 each. Boxing and crating charges will apply for all orders.
Starphire® is a registered trademark of PPG Industries Ohio, Inc.

1-1/16" (25.52 MM) THICK CLEAR AND LOW IRON STARPHIRE® LAMINATED TEMPERED GLASS

CAT. NO.	SIZE	DESCRIPTION
LG25CC	Custom Size (Specify)	Laminated Clear Tempered
LG25LC	Custom Size (Specify)	Laminated Low Iron Starphire® Tempered

Minimum order: 1 each. Boxing and crating charges will apply for all orders.

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CRL US ALUMINUM

CRL Base Shoe for Monolithic Tempered Glass

- For 1/2", 5/8", and 3/4" (12, 15, and 19 mm) Thick Glass

USE MONOLITHIC TEMPERED GLASS

ICC ES™

ESR-3269

U.S. Patents 8,122,654 and 8,201,366.
Commonwealth of Australia
Patents 2008207524 and 2012202256

TAPER-LOC X
DRY GLAZE RAILING SYSTEM

TAPER-LOC XA
DRY GLAZE RAILING SYSTEM

BASE SHOE	SPECIFICATIONS	CONDITIONS OF USE AND APPROVALS
See Pages 143B-146B **B5S** **8B**	**CRL B5S and 8B Series Standard Square Profile Base Shoes** • For Use with 1/2" (12 mm) Monolithic Tempered Glass • Pre-Drilled 12" (305 mm) on Center • Works with CRL TL5X10 TAPER-LOC® Taper Sets • Concrete Attachment: Use WBA38X4 Hilti® KWIK HUS EZ Anchors • Steel Attachment: Use CRL SHCS12X34 Socket Head Cap Screws	• Low Occupancy Commercial Applications • All Residential Applications • 2006, 2009, 2012 IBC, and IRC 2407.1 Compliant • IBC 2015 2407.1 Compliant When **NO** Walking Surface Below • ICC ESR-3269 Approved System
See Pages 154B-157B **B6N/B6S** **8B5B**	**CRL B6N/B6S and 8B58 Series Standard Square Profile Base Shoes** • For Use with 5/8" (16 mm) Monolithic Tempered Glass • Pre-Drilled 12" (305 mm) on Center • Works with CRL TL5X10 TAPER-LOC® Taper Sets • Concrete Attachment: Use WBA38X4 Hilti® KWIK HUS EZ Anchors • Steel Attachment: Use CRL SHCS12X34 Socket Head Cap Screws	• Commercial Applications • All Residential Applications • 2006, 2009, 2012 IBC, and IRC 2407.1 Compliant • IBC 2015 2407.1 Compliant When **NO** Walking Surface Below • ICC ESR-3269 Approved System
See Pages 159B-161B **B7S** **8B34**	**CRL B7S and 8B34 Series Standard Square Profile Base Shoes** • For Use with 3/4" (19 mm) Monolithic Tempered Glass • Pre-Drilled 12" (305 mm) on Center • Works with CRL TL5X10 TAPER-LOC® Taper Sets • Concrete Attachment: Use WBA38X4 Hilti® KWIK HUS EZ Anchors • Steel Attachment: Use CRL SHCS12X34 Socket Head Cap Screws	• High Occupancy Commercial Mass Exiting Applications • All Residential Applications • 2006, 2009, 2012 IBC, and IRC 2407.1 Compliant • IBC 2015 2407.1 Compliant When **NO** Walking Surface Below • ICC ESR-3269 Approved System
See Pages 150B-151B **B5T**	**CRL B5T Series Tapered Profile Base Shoe** • For Use with 1/2" (12 mm) Monolithic Tempered Glass • Pre-Drilled 12" (305 mm) on Center • Works with CRL TL5X10 TAPER-LOC® Taper Sets • For Surface Mount and Embed Mount Applications • Concrete Attachment: Use WBA38X4 Hilti® KWIK HUS EZ Anchors • Steel Attachment: Use CRL SHCS12X34 Socket Head Cap Screws	• Low Occupancy Commercial Applications • All Residential Applications • 2006, 2009, 2012 IBC, and IRC 2407.1 Compliant • IBC 2015 2407.1 Compliant When **NO** Walking Surface Below • ICC ESR-3269 Approved System
See Pages 152B-153B **B5L**	**CRL B5L Series Low Profile Base Shoe** • For Use with 1/2" (12 mm) Monolithic Tempered Glass • Pre-Drilled 12" (305 mm) on Center • Wet Glazed Only, Use CRL KWX50 Expanding Cement • Concrete Attachment: Use WBA38X4 Hilti® KWIK HUS EZ Anchors • Steel Attachment: Use CRL SHCS12X34 Socket Head Cap Screws	• Not Recommended for Commercial Use • All Residential Applications • 2006, 2009, 2012 IBC, and IRC 2407.1 Compliant • IBC 2015 2407.1 Compliant When **NO** Walking Surface Below • ICC ESR-3269 Approved System

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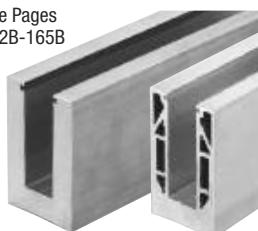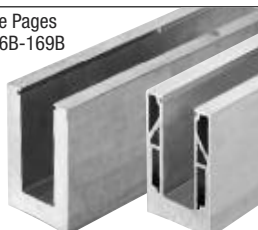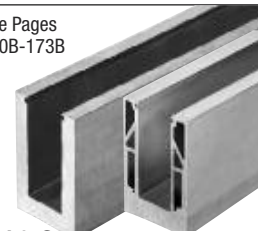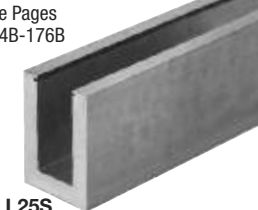
CRL US ALUMINUM®

CRL Base Shoe for Laminated Tempered Glass

- For 9/16", 11/16", 27/32", and 1-1/16"
  (13.52, 17.52, 21.52, and 25.52 mm) Thick Glass

USE LAMINATED TEMPERED GLASS

ICC ES

ESR-3842
U.S. Patents 8,122,654 and 8,201,366.
Commonwealth of Australia
Patents 2008207524 and 2012202256

TAPER-LOC XAC
DRY GLAZE RAILING SYSTEM

TAPER-LOC X1
DRY GLAZE RAILING SYSTEM

BASE SHOE	SPECIFICATIONS	CONDITIONS OF USE AND APPROVALS

See Pages 162B-165B
 	
L56S   **9BL56**
	CRL L56S and 9BL56 Series Standard Square Profile Base Shoes
	
	• For Use with 9/16" (13.52 mm) Laminated Tempered Glass
	• Pre-Drilled 12" (305 mm) on Center
	• Works with CRL LTL96X1 TAPER-LOC® Taper Sets
	• Concrete Attachment:
	  Use WBA38X4 Hilti® KWIK HUS-EZ Anchors
	• Steel Attachment:
	  Use CRL SHCS12X34 Socket Head Cap Screws
		• Low Occupancy Commercial Applications
		• All Residential Applications
		• 2006, 2009, 2012 IBC, and IRC 2407.1 Compliant
		• IBC 2015 2407.1 Compliant When Walking Surface Below
		• ICC ESR-3842 Approved System

See Pages 166B-169B
 	
L68S   **9BL68**
	CRL L68S and 9BL68 Series Standard Square Profile Base Shoes
	
	• For Use with 11/16" (17.52 mm) Laminated Tempered Glass
	• Pre-Drilled 11-13/16" (300 mm) on Center
	• Works with CRL LTL96X1 TAPER-LOC® Taper Sets
	• Concrete Attachment:
	  Use WBA12X4 Hilti® KWIK HUS-EZ Anchors
	• Steel Attachment:
	  Use CRL HHCS14X34 M14 Hex Head Screws
		• Standard Commercial Applications
		• All Residential Applications
		• 2006, 2009, 2012 IBC, and IRC 2407.1 Compliant
		• IBC 2015 2407.1 Compliant When Walking Surface Below
		• ICC ESR-3842 Approved System

See Pages 170B-173B
 	
L21S   **9BL21**
	CRL L21S and 9BL21 Series Standard Square Profile Base Shoes
	
	• For Use with 27/32" (21.52 mm) Laminated Tempered Glass
	• Pre-Drilled 11-13/16" (300 mm) on Center
	• Works with CRL LTL10X1 TAPER-LOC® Taper Sets
	• Concrete Attachment:
	  Use WBA12X4 Hilti® KWIK HUS-EZ Anchors
	• Steel Attachment:
	  Use CRL HHCS14X34 M14 Hex Head Screws
		• High Occupancy Commercial Mass Exiting Applications
		• All Residential Applications
		• 2006, 2009, 2012 IBC, and IRC 2407.1 Compliant
		• IBC 2015 2407.1 Compliant When Walking Surface Below
		• ICC ESR-3842 Approved System

See Pages 174B-176B
 	
L25S
	CRL L25S Series Standard Square Profile Base Shoe
	
	• For Use with 1-1/16" (25.52 mm) Laminated Tempered Glass
	• Pre-Drilled 11-13/16" (300 mm) on Center
	• Works with CRL LTL10X1 TAPER-LOC® Taper Sets
	• Concrete Attachment:
	  Use WBA12X4 Hilti® KWIK HUS-EZ Anchors
	• Steel Attachment:
	  Use CRL HHCS14X34 M14 Hex Head Screws
		• High Occupancy Commercial Mass Exiting Applications
		• All Residential Applications
		• 2006, 2009, 2012 IBC, and IRC 2407.1 Compliant
		• IBC 2015 2407.1 Compliant When Walking Surface Below
		• ICC ESR-3842 Approved System

CRL Blumcraft Base Shoes for Monolithic Tempered Glass

- For 1/2" and 3/4"
  (12 and 19 mm) Thick Glass

USE MONOLITHIC TEMPERED GLASS

BLUMCRAFT®
A DIVISION OF C.R. LAURENCE CO., INC.

RG200 Series
for 1/2" (12 mm) Glass
See Pages 178B-179B

RG450 Series
for 1/2" (12 mm) Glass
See Pages 180B-181B

RG500 Series
for 3/4" (19 mm) Glass
See Pages 182B-183B

RG650 Series
for 3/4" (19 mm) Glass
See Pages 184B-185B

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Typical Base Shoe Attachments

Attachment Concerns and Information

Our Glass Railing Base Shoe and Fasteners are tested to meet model code regulations. This testing only covers the structural integrity of the Base Shoe and the attachment strength of the Fasteners. The structural integrity of the attachment substrate, concrete or steel, is the responsibility of the architect, structural engineer, and contractor.

It is important to note that every project should be considered unique, and individual testing and engineering should be performed. Therefore, tight specifications, and a set of structurally engineered plans approved by the local building department, along with job site testing, are a must to cover the life and safety issues involved in hand rail projects.

Illustrated here are five typically approved types of installation attachments commonly used in the industry today. Your project may vary. PDF drawing files are available for each of the five different attachment scenarios, along with model code regulations and testing. Data can be viewed on our web site at **crlaurence.com/test-reports**.

(1) Base Shoe Attachment to Concrete

Works With All 8B, B5, B6, and B7 Monolithic Series Base Shoe. Also Works With 9BL21, 9BL56, 9BL68, L21S, L25S, L56S, and L68S Laminated Series Base Shoe.

A common installation is to attach the Base Shoe directly to the concrete. We searched for a fastener that would meet the model code regulations. We selected the Cat. No. EBA335 Hilti® HSL-3 M12 Expansion Anchor and Cat. No. EBA334 Hilti® HSL3 M8 Expansion Anchor. When the concrete is drilled with ANSI Specification Drill Bits, and the anchor is secured in minimum 3000 psi concrete, sufficient strength was achieved to pass testing.

Base Shoe

4000 PSI Concrete*
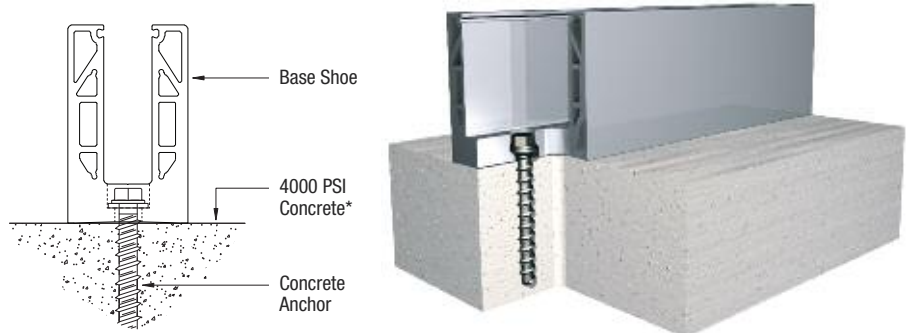
Concrete Anchor

*NOTE: Depending on your Local Building Code requirements when attaching to concrete, the Base Shoe might need to be drilled and anchored 6" or 12" (152 or 305 mm) on center.

(2) Base Shoe Attachment to Weld Blocks/Welded to a Steel Substrate

Works With All 8B, B5, B6, and B7 Monolithic Series Base Shoe. Also Works With 9BL21, 9BL56, 9BL68, L21S, L25S, L56S, and L68S Laminated Series Base Shoe.

In many instances, installing Base Shoe with Weld Blocks attached and ready for welding is easier than trying to match Base Shoe holes to substrate holes. If the Base Shoe is being attached to a structurally secure steel substrate, all that is required is welding the two together, with no drilling or tapping of holes. Another advantage is that the Base Shoe can be positioned and aligned to job site conditions, and then welded.
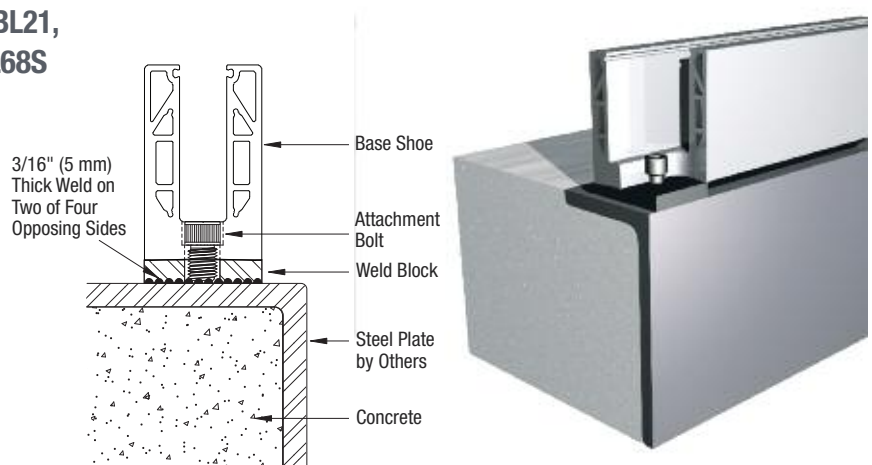
3/16" (5 mm) Thick Weld on Two of Four Opposing Sides

Base Shoe

Attachment Bolt

Weld Block

Steel Plate by Others

Concrete

Hilti is a registered trademark of Hilti Aktiengesellschaft Corporation.

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140B

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CRL US ALUMINUM

Typical Base Shoe Attachments

③ Base Shoe Attachment to Steel Substrate/Fascia Mount or Angle Mount

Works With All 8B, B5A, B5L, B5S, All B6 and B7 Monolithic Series Base Shoe.   Also Works With 9BL21, 9BL56, 9BL68, L21S, L25S, L56S, and L68S Laminated Series Base Shoe.

If you are attaching a Base Shoe to a channel or angle from the side, this is called a Fascia Mount. Base Shoe should be attached to steel substrate prior to concrete being poured. Otherwise, drilling and tapping of steel may be difficult, if not impossible. Use of Weld Blocks may be a possible solution. CRL can fabricate the Base Shoe with side mount attachment holes per your engineer's instructions. An alternative is to fasten an angle to the Fascia and mount the Base Shoe using the regular bottom mount method. Steel should be drilled to match hole locations in Base Shoe. Allowable fabrication tolerances may affect 12" (305 mm) centers.

Base Shoe

Steel Plate by Others

Concrete

Alternative Methods
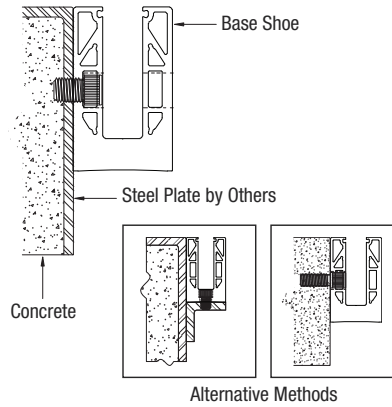
④ Base Shoe Attachment When Embedded in Concrete

Works With B5T Series Base Shoe

If planning and time permit, a poured in place Base Shoe is often preferred when an 'all-glass' look is desired. This eliminates any Base Shoe showing, and gives the impression that the glass comes directly out of the floor. A Tapered Base Shoe was developed for this application. When poured in place it is locked in by concrete. Mechanically fastening the shoe to the substrate is still recommended during installation. There are many different ways to set the Base Shoe prior to pouring concrete. For more information or questions regarding the different mounting options contact CRL Railing Technical Sales.

Base Shoe

Concrete

Steel Plate by Others

Alternative Method
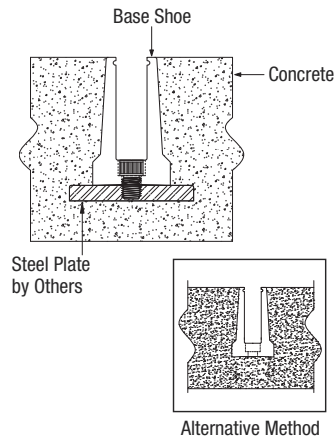
⑤ Base Shoe Attachment to Embedded Steel Strip

Works With All 8B, B5, B6, and B7 Monolithic Series Base Shoe. Also Works With 9BL21, 9BL56, 9BL68, L21S, L25S, L56S, and L68S Laminated Series Base Shoe.

This attachment is often used in multi-story buildings with concrete floors. A 4" (102 mm) wide x 1/2" (13 mm) thick steel strip, drilled and tapped for screws with 12" (305 mm) centers (plugged or taped to prevent concrete penetration), is installed flush with the top of the concrete floor. To meet code requirements 3/8" x 2-1/2" (10 x 64 mm) Nelson® Studs are welded to the underside of the steel strip on 18" (457 mm) centers. For installation, remove the tape or plug from tapped holes and secure the Base Shoe with approved fasteners. Steel should be drilled to match hole locations in Base Shoe. Allowable fabrication tolerances may affect 12" (305 mm) centers.
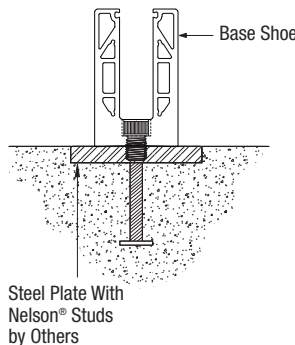
Nelson is a registered trademark of Nelson Stud Welding, Inc.

Base Shoe

Steel Plate With Nelson® Studs by Others

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141B

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CRL US ALUMINUM

Planning and Pre-Installation Visits to Job Site Can Cut Costs

CRL has made every effort to improve the installation process and make it easier. We directed our efforts at existing products and processes, and incorporated innovative ideas and requests from our customers. We offer the most services in the industry: cutting, mitering, hole fabrication, two systems for securing the glass (The TAPER-LOC® Dry Glaze System or the Standard Wet Glaze System).

In addition, we have developed laser-assisted systems to assure your glass is plumb, clamp and alignment fixtures to secure the glass in place while the cement dries, pumping equipment for the cement, and more.

The one area that is out of our control is the Substrate Attachment Area at the job site. Below we give you advice on how to plan or correct this area so you will have a smooth installation. First we will address potential problems, and then we will give you the best solutions to correct these problems.

Base Shoe Attachments to Concrete: Because of the advancements in today's anchoring systems, securing the Base Shoe to concrete is now a simple matter of aligning the Base Shoe, drilling holes and inserting anchors. The holes in the Base Shoe act as an alignment fix for proper hole position. If re-bar obstruction occurs, additional drilling of Base Shoe may be required. After drilling, all that is necessary is to vacuum out the holes and install the Wedge-Bolt Anchors and Washers (see page 188B).

Base Shoe Attachments to Steel Angles, Channels, or Embedments: This is an area where problems can occur. They can be addressed either as pre-installation solutions, or as after-installation corrective solutions.

A major problem is that if the steel angles, channels or embedments are set in place, and concrete is poured without Base Shoe attachment holes being drilled and tapped, doing it afterwards is nearly impossible.

First of all, a magnetic base drill press is required to apply enough pressure to the drill bit for it to drill properly. Then after drilling through the steel, the drill bit comes in contact with the concrete and is dulled after only one use. Next you must drill a clearance hole in the concrete with a masonry drill. Finally, the hole needs to be tapped, and after three or four holes, that tap is ruined by the concrete.

Pre-Installation Solution: The easiest way to correct this situation is to drill and tap the steel attachments before they are installed. Care must be taken to ensure drilled and tapped holes match holes in Base Shoe, fabrication tolerances can affect 12" (305 mm) centers. Then, to provide clearance behind the steel and protect the threads from concrete, install CRL Nylon Thread Protecting Allen Screws (see below). These screws are tightened until they are flush with the outside surface, which usually makes them project beyond the back surface, and allows back clearance for the final attaching Socket Head Cap Screw (see page 189B). As a precaution against concrete getting into the Allen Screw socket, making it difficult to remove, we suggest applying a piece of duct tape over each Allen Screw.

After Installation Corrective Solution: If the steel attachments are installed in the concrete without the holes being drilled and tapped, the only simple corrective action that can be done is to use CRL Weld Blocks. This is really an easy solution and is often the preferred way to install the Base Shoe. By attaching the CRL Weld Blocks (see page 186B) to the Base Shoe with Socket Head Cap Screws (see page 189B), you can simply position the Base Shoe in the proper location, clamp it in place, and weld the Weld Blocks to the steel attachment surface. One advantage of using CRL Weld Blocks is you never have to worry about hole alignment. The Weld Blocks can be attached at your shop.

CRL Thread Protecting Nylon Allen Screws

• Protect Threaded Holes From Concrete Contamination

Thread Protecting Nylon Allen Screws are used to protect the threaded holes in steel attachments from concrete contamination, and provide a clearance area behind the attachment. Simply insert the Nylon Allen Screws until the top is flush with the steel attachment. Cover with duct tape to protect the wrench opening. After the steel attachment is set in concrete, remove the tape and Nylon Allen Screws so the Base Shoe can be attached.
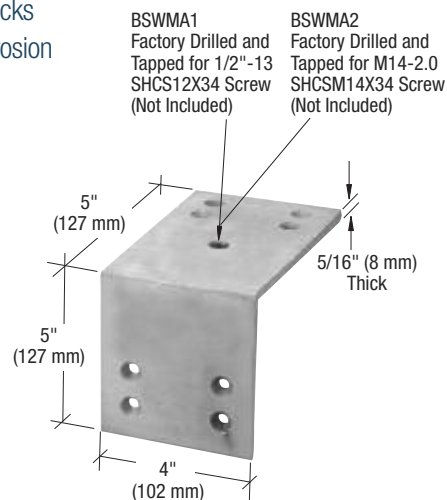
CAT. NO.	DESCRIPTION	QTY/CARTON
NAS12X1	1/2"-13 x 1" (25 mm) Nylon Allen Screws	100

Minimum order is 100 each. Must be ordered in increments of 100.

CRL Wood Mount L-Angle Kits

• Great for Balconies and Decks
• Zinc Plated to Prevent Corrosion
• 10 L-Angles per Pack

CRL Wood Mount L-Angle Kits are for use with CRL Heavy Aluminum Base Shoes. When screwed to structurally sound wood beams, they provide an attachment point using our pre-drilled Base Shoes and our Stainless Steel Socket Head Cap Screws (see page 189B).
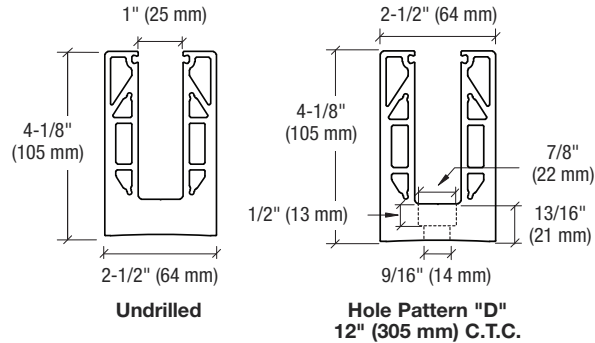
BSWMA1
Factory Drilled and Tapped for 1/2"-13 SHCS12X34 Screw (Not Included)

BSWMA2
Factory Drilled and Tapped for M14-2.0 SHCSM14X34 Screw (Not Included)

5" (127 mm)
5/16" (8 mm) Thick
5" (127 mm)
4" (102 mm)

Includes Eight Wood Screws Per L-Angle

CAT. NO.	WORKS WITH BASE SHOE
BSWMA1	All 8B, B5, B6, B7, and 9BL56, L56S
BSWMA2	9BL68, L68S, 9BL21, L21S, L25S

Minimum order is 1 pack.

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142B

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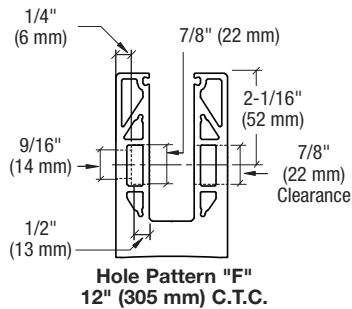**CRL** US ALUMINUM

CRL GRS GLASS RAILING BASE SHOE

CRL 8B Series Square Base Shoe

- **For 1/2" (12 mm) Monolithic Tempered Glass**
- Environmentally Friendly (Green Product)
- 30% Lighter than CRL's Traditional B5S Series Base Shoe
- Typically Used as the Base Channel for Glass Railing Systems or Windscreens
- Drilled and Counter Bored, or We Will Custom Drill to Your Specifications
- Custom Cutting and Mitering Service Available
- 6063 Alloy, T52 Temper

NEW!

ARCHITECTURAL RECORD
Record Products
WINNER

CRL GREEN PRODUCT®

Undrilled
1" (25 mm)
4-1/8" (105 mm)
2-1/2" (64 mm)

Hole Pattern "D"
12" (305 mm) C.T.C.
2-1/2" (64 mm)
4-1/8" (105 mm)
7/8" (22 mm)
1/2" (13 mm)
13/16" (21 mm)
9/16" (14 mm)

Hole Pattern "F"
12" (305 mm) C.T.C.
1/4" (6 mm)
7/8" (22 mm)
2-1/16" (52 mm)
9/16" (14 mm)
7/8" (22 mm) Clearance
1/2" (13 mm)

Safety Seal Gasket Retention Groove (Patent Pending)

Engineered extrusion reduces the weight of the Base Shoe by 30%. This reduces the cost of the Base Shoe, and helps you save on shipping costs.

Integrated Screw Race for End Caps

New Safety Seal for Safer and Faster Installations (see page 118B).

ICC ES®
ESR-3269

ONLINE ARCHITECTURAL RESOURCES

Works With:

USE MONOLITHIC TEMPERED GLASS

TAPER-LOC X®
DRY GLAZE RAILING SYSTEM
U.S. Patents 8,122,654 and 8,201,366.
Commonwealth of Australia
Patents 2008207524 and 2012202256

TL5X10 TAPER-LOC® Standard Taper Sets (see page 112B)

TLXATSM TAPER-LOC® Adjustable Taper Sets (see page 113B)

CRL 8B Series Square Base Shoe is used as the base channel for glass railing systems. It can be clad in six choices of architectural finishes (see pages 145B-146B). The most critical component in a railing system is the proper attachment of the Base Shoe to the substrate. CRL has engineered and tested a variety of attachment methods, and has developed an acceptable combination of drilling patterns and fasteners. The five tested methods of attachment can be found on pages 140B-141B, and associated fasteners are shown on pages 188B-189B.

GLASS SPECIFICATIONS:
For use with 1/2" (12 mm) Thick Monolithic Tempered Glass when using TAPER-LOC® Dry Glaze System and Wet Glaze System.

TAPER-LOC® DRY GLAZE SYSTEM
For Use with TL5X10 and TLXATSM TAPER-LOC® Taper Sets for 1/2" (12 mm) Monolithic Tempered Glass
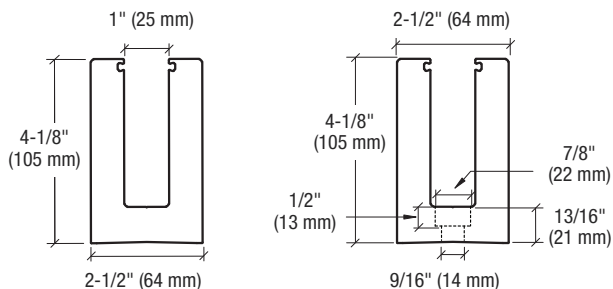
WET GLAZE SYSTEM
For Use with 1/2" (12 mm) Monolithic Tempered Glass

For Test Results and Drilling Recommendations, Visit **crlaurence.com/test-reports**.

8B SERIES SQUARE BASE SHOE

12" (305 MM) C.T.C. CAT. NO.	STOCK LENGTH*	HOLE SIZE	COUNTER BORE X DEPTH	WEIGHT
8B10D**	120" (3.05 m)	9/16" (14 mm)	7/8" (22 mm) x 1/2" (13 mm)	60 pounds (27 kg)
8B20D**	240" (6.10 m)	9/16" (14 mm)	7/8" (22 mm) x 1/2" (13 mm)	120 pounds (54 kg)
8B10F**	120" (3.05 m)	9/16" (14 mm)	7/8" (22 mm) x 1/2" (13 mm)	60 pounds (27 kg)
8B20F**	240" (6.10 m)	9/16" (14 mm)	7/8" (22 mm) x 1/2" (13 mm)	120 pounds (54 kg)
8B10	120" (3.05 m)	---	∆ Extrusion Only (Without Holes)	60 pounds (27 kg)
8B20	240" (6.10 m)	---	∆ Extrusion Only (Without Holes)	120 pounds (54 kg)

** Our Best Sellers are pre-drilled at CRL's Manufacturing Facility. * Stock lengths have a tolerance of plus or minus 3/4" (19 mm). Minimum order: 1 each. All Base Shoe can be combined for quantity pricing. Must ship common carrier.

∆ **NOTE:** 120" (3.05 m) and 240" (6.10 m) Extrusion Only (without holes) cannot be used for the TAPER-LOC® Dry Glaze System unless the Base Shoe is fabricated to the above tested and approved hole and counter bore pattern. The TAPER-LOC® Dry Glaze System requires that the attachment holes be counter bored so that no part of the fastener protrudes above the base of the channel opening.

SHIPPING NOTE: Due to the difficulty in packaging and handling 240" (6.10 m) stock lengths, it is suggested that you take delivery of these at any of our service centers. If requiring shipment, all packaging and handling concerns must be agreed to by CRL and the customer prior to shipping. All shipping arrangements will be documented on your quotation for your signed approval.

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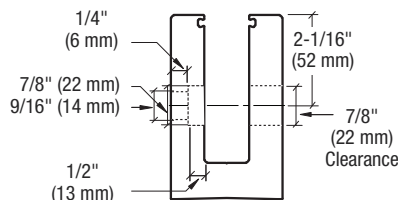From Anywhere in the U.S. or Canada

CRL® US ALUMINUM

CRL B5S Series Standard Square Base Shoe

- For 1/2" (12 mm) Monolithic Tempered Glass
- Typically Used as the Base Channel for Glass Railing Systems or Windscreens
- Drilled and Counter Bored, or We Will Custom Drill to Your Specifications
- Custom Cutting and Mitering Service Available
- 6063 Alloy, T52 Temper

Safety Seal
Gasket Retention
Groove
(Patent Pending)

ICC ES
ESR-3269

1" (25 mm)
4-1/8" (105 mm)
2-1/2" (64 mm)
Undrilled

2-1/2" (64 mm)
4-1/8" (105 mm)
7/8" (22 mm)
1/2" (13 mm)
13/16" (21 mm)
9/16" (14 mm)
Hole Pattern "D"
6" or 12" (152 or 305 mm) C.T.C.

New Safety Seal for Safer
and Faster Installations
(see page 118B).

1/4" (6 mm)
2-1/16" (52 mm)
7/8" (22 mm)
9/16" (14 mm)
7/8" (22 mm) Clearance
1/2" (13 mm)
Hole Pattern "F"
6" or 12" (152 or 305 mm) C.T.C.

Works With:

TL5X10 TAPER-LOC®
Standard Taper Sets
(see page 112B)

TLXATSM TAPER-LOC®
Adjustable Taper Sets
(see page 113B)

USE MONOLITHIC TEMPERED GLASS

TAPER-LOC X
DRY GLAZE RAILING SYSTEM

U.S. Patents 8,122,654 and 8,201,366.
Commonwealth of Australia
Patents 2008207524 and 2012202256

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CRL B5S Series Standard Square Base Shoe is used as the base channel for glass railing systems. It can be clad in six choices of architectural finishes (see pages 145B-146B). The most critical component in a railing system is the proper attachment of the Base Shoe to the substrate. CRL has engineered and tested a variety of attachment methods, and has developed an acceptable combination of drilling patterns and fasteners. The five tested methods of attachment can be found on pages 140B-141B, and associated fasteners are shown on pages 188B-189B.

GLASS SPECIFICATIONS:
For use with 1/2" (12 mm) Thick Monolithic Tempered Glass when using TAPER-LOC® Dry Glaze System and Wet Glaze System.

TAPER-LOC®
DRY GLAZE SYSTEM
For Use with TL5X10 and TLXATSM TAPER-LOC® Taper Sets for 1/2" (12 mm) Monolithic Tempered Glass

WET GLAZE SYSTEM
For Use with 1/2" (12 mm) Monolithic Tempered Glass

For Test Results and
Drilling Recommendations,
Visit crlaurence.com/test-reports.

B5S SERIES STANDARD SQUARE BASE SHOE

12" (305 MM) C.T.C. CAT. NO.	6" (152 MM) C.T.C. CAT. NO.	STOCK LENGTH*	HOLE SIZE	COUNTER BORE X DEPTH	WEIGHT
B5S10D**	B5S10D6**	120" (3.05 m)	9/16" (14 mm)	7/8" (22 mm) x 1/2" (13 mm)	84 pounds (38 kg)
B5S20D**	B5S20D6**	240" (6.10 m)	9/16" (14 mm)	7/8" (22 mm) x 1/2" (13 mm)	167 pounds (76 kg)
B5S10F**	B5S10F6**	120" (3.05 m)	9/16" (14 mm)	7/8" (22 mm) x 1/2" (13 mm)	84 pounds (38 kg)
B5S20F**	B5S20F6**	240" (6.10 m)	9/16" (14 mm)	7/8" (22 mm) x 1/2" (13 mm)	167 pounds (76 kg)
B5S10	---	120" (3.05 m)	---	Δ Extrusion Only (Without Holes)	84 pounds (38 kg)
B5S20	---	240" (6.10 m)	---	Δ Extrusion Only (Without Holes)	167 pounds (76 kg)

** Our Best Sellers are pre-drilled at CRL's Manufacturing Facility. * Stock lengths have a tolerance of plus or minus 3/4" (19 mm). Minimum order: 1 each. All Base Shoe can be combined for quantity pricing. Must ship common carrier.

Δ **NOTE:** 120" (3.05 m) and 240" (6.10 m) Extrusion Only (without holes) cannot be used for the TAPER-LOC® Dry Glaze System unless the Base Shoe is fabricated to the above tested and approved hole and counter bore pattern. The TAPER-LOC® Dry Glaze System requires that the attachment holes be counter bored so that no part of the fastener protrudes above the base of the channel opening.
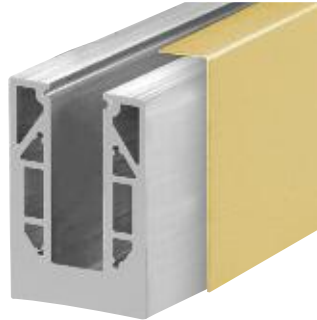
SHIPPING NOTE: Due to the difficulty in packaging and handling 240" (6.10 m) stock lengths, it is suggested that you take delivery of these at any of our service centers. If requiring shipment, all packaging and handling concerns must be agreed to by CRL and the customer prior to shipping. All shipping arrangements will be documented on your quotation for your signed approval.

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CRL US ALUMINUM

CRL Cladding for 8B and B5S Series Standard Square Base Shoe

Straight Cladding for 8B and B5S Series Standard Square Base Shoe

CRL Cladding allows the user to match any of six architectural finishes offered in Cap Railing. It can be secured to the Base Shoe using CRL AT234 Cladding Tape and 95CBL Silicone Sealant (see page 177B). **NOTE:** Sold by individual pieces. Base Shoe requires two pieces for coverage on both sides.

- Available in Six Architectural Finishes
- Adhere With Cladding Tape and Silicone Sealant
- Custom Cutting and Mitering Service Available

CAT. NO.	GRADE	GA./THK.	LENGTH	FINISH
BSCBS10	304	20/.035"	120" (3.05 m)	Brushed Stainless
BSCPS10	304	20/.035"	120" (3.05 m)	Polished Stainless
BSCBS106	316	20/.035"	120" (3.05 m)	Brushed Stainless
BSCPS106	316	20/.035"	120" (3.05 m)	Polished Stainless
BSC236BS	316	20/.035"	236" (6 m)*	Brushed Stainless
BSC236PS	316	20/.035"	236" (6 m)*	Polished Stainless
BSCPB10	C260	.045"	120" (3.05 m)	Polished Brass
BSCSB10	C260	.045"	120" (3.05 m)	Satin Brass
BSCSA10	5052	.050"	120" (3.05 m)	Satin Anodized
BSCDU10	5052	.050"	120" (3.05 m)	Dark Bronze Anodized

Minimum order: 1 each. *Minimum order: 1 pack (6 pieces per pack). All finishes can be combined for quantity pricing. Custom lengths up to 168" (4.26 m) are available on special order. Must ship common carrier.

Fascia Cladding for 8B and B5S Series Standard Square Base Shoe

CRL Fascia Cladding is offered for applications where the Base Shoe is installed to the side of the substrate. We offer Outside Fascia Cladding that will conceal the three exposed outside edges of the Base Shoe. We also offer the Inside Fascia Cladding Strip that will cover the top inside edge of the Base Shoe. Secure with CRL AT234 Cladding Tape and 95CBL Silicone Sealant (see page 177B).

- Available in Six Architectural Finishes
- Adhere With Cladding Tape and Silicone Sealant
- Custom Cutting and Mitering Services Available
- Outside and Inside Fascia Cladding Are Sold Separately

CRL Inside Fascia Cladding Strip 3/4" (19 mm) Wide

CRL Outside Fascia Cladding

OUTSIDE FASCIA CLADDING

CAT. NO.	GRADE	GA./THK.	LENGTH	FINISH
B5C0FBS	304	20/.035"	120" (3.05 m)	Brushed Stainless
B5C0FPS	304	20/.035"	120" (3.05 m)	Polished Stainless
B5C0FPB	C260	.045"	120" (3.05 m)	Polished Brass
B5C0FSB	C260	.045"	120" (3.05 m)	Satin Brass
B5C0FSA	5052	.050"	120" (3.05 m)	Satin Anodized
B5C0FDU	5052	.050"	120" (3.05 m)	Dark Bronze Anodized

Minimum order: 1 each. All finishes can be combined for quantity pricing. Custom lengths up to 168" (4.26 m) are available on special order. Must ship common carrier.

INSIDE FASCIA CLADDING STRIP

CAT. NO.	GRADE	GA./THK.	LENGTH	FINISH
B5C1FBS	304	20/.035"	120" (3.05 m)	Brushed Stainless
B5C1FPS	304	20/.035"	120" (3.05 m)	Polished Stainless
B5C1FPB	C260	.045"	120" (3.05 m)	Polished Brass
B5C1FSB	C260	.045"	120" (3.05 m)	Satin Brass
B5C1FSA	5052	.050"	120" (3.05 m)	Satin Anodized
B5C1FDU	5052	.050"	120" (3.05 m)	Dark Bronze Anodized

Minimum order: 1 each. All finishes can be combined for quantity pricing. Custom lengths up to 168" (4.26 m) are available on special order. Must ship common carrier.
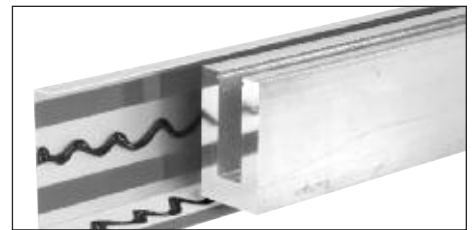
Application Suggestions for CRL Cladding

There are various methods of attaching the Cladding to the Base Shoe. All three types shown below will work, but a combination of AT234 Cladding Tape and 95CBL Neutral Cure Silicone (Type C) offers the best of two worlds; the instant bond of the tape along with the speed of application of the silicone and its flexible, durable adhesion. See page 177B for additional information.

Type A: Apply three rows of Tape to the inside face and two rows to the inside bottom leg of the Cladding. Carefully align the Cladding to the Base Shoe and press in place.

Type B: Apply Silicone to the inside face and bottom leg of the Cladding. Carefully align Cladding to the Base Shoe and press in place. Use clamps to hold the Cladding in place until the Silicone cures.

Type C: Apply two rows of Tape to the inside face of the Cladding, one toward the top and one toward the bottom. Apply the Silicone between the rows of Tape. Apply one row of Tape to the bottom leg, closest to the outer edge. Apply Silicone between Tape and corner bend in Cladding. Carefully align the Cladding to the Base Shoe and press in place.

go to crlaurence.com to search for

base-shoe | Search

or enter the Catalog Number for complete product information

145B

TOLL Phone: (800) 421-6144
FREE Fax: (800) 262-3299
From Anywhere in the U.S. or Canada

## CRL Cladding for 8B and B5S Series Standard Square Base Shoe

CAT. NO. SCCS5
Cladding Color Chip Chain
Minimum order is one each.

12" Mitered Corner Cladding for 8B and B5S Series Standard Square Base Shoe

ONLINE ARCHITECTURAL RESOURCES

CRL Mitered Corner Cladding allows the user to match any of six architectural finishes offered in Cap Railing. Each leg is 12" (305 mm) in length, and can be secured to the Base Shoe using CRL AT234 Cladding Tape and 95CBL Silicone Sealant (see page 177B). Four pieces per set.
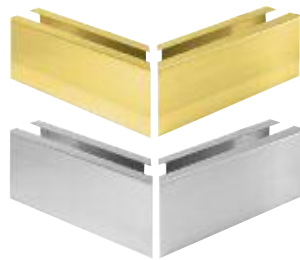
- 90 Degree and 135 Degree Corner Set
- Available in Six Architectural Finishes
- Adhere With Cladding Tape and Silicone Sealant

90 DEGREE CORNER CAT. NO.	135 DEGREE CORNER CAT. NO.	GRADE	GA./THK.	FINISH
B5S90BS	B5S135BS	304	20/.035"	Brushed Stainless
B5S90PS	B5S135PS	304	20/.035"	Polished Stainless
B5S90BS6	B5S135BS6	316	20/.035"	Brushed Stainless
B5S90PS6	B5S135PS6	316	20/.035"	Polished Stainless
B5S90PB	B5S135PB	C260	.045"	Polished Brass
B5S90SB	B5S135SB	C260	.045"	Satin Brass
B5S90SA	B5S135SA	5052	.050"	Satin Anodized
B5S90DU	B5S135DU	5052	.050"	Dark Bronze Anodized

Minimum order: 1 set. All finishes can be combined for quantity pricing.

End Caps for 8B and B5S Series Standard Square Base Shoe

CRL End Caps allow the user to match any of six architectural finishes offered in Cap Railing. B5SEC End Caps are secured to the Base Shoe using CRL AT234 Cladding Tape and 95CBL Silicone Sealant (see page 177B). 8BC End Caps are secured by four screws (included). One per package.

For 8B Series   For B5S Series

- Available in Six Architectural Finishes

FOR 8B CAT. NO.	FOR B5S CAT. NO.	GRADE	GA./THK.	FINISH
8BCBS	B5SECBS	304	20/.035"	Brushed Stainless
8BCPS	B5SECPS	304	20/.035"	Polished Stainless
8BCBS6	B5SECBS6	316	20/.035"	Brushed Stainless
8BCPS6	B5SECPS6	316	20/.035"	Polished Stainless
8BCPB	B5SECPB	C260	.045"	Polished Brass
8BCSB	B5SECSB	C260	.045"	Satin Brass
8BCSA	B5SECSA	5052	.050"	Satin Anodized
8BCDU	B5SECDU	5052	.050"	Dark Bronze Anodized

Minimum order: 1 each. All finishes can be combined for quantity pricing.

12" Welded End Cladding for 8B and B5S Series Standard Square Base Shoe

CRL Welded End Cladding allows the user to match any of the architectural finishes offered in Cap Railing. It is 12" (305 mm) in length, and can be secured to the Base Shoe using CRL 95CBL Silicone Sealant (see page 177B). One per package.
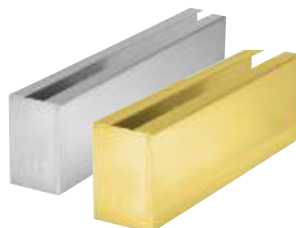
- Available in Three Architectural Finishes
- Adhere With Silicone Sealant

CAT. NO.	GRADE	GA./THK.	FINISH
B5SWCBS	304	20/.035"	Brushed Stainless
B5SWCPS	304	20/.035"	Polished Stainless
B5SWCBS6	316	20/.035"	Brushed Stainless
B5SWCPS6	316	20/.035"	Polished Stainless
B5SWCPB	C260	.045"	Polished Brass

Minimum order: 1 each. All finishes can be combined for quantity pricing.

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base-shoe   Search

146B

or enter the Catalog Number for complete product information

TOLL Phone: (800) 421-6144
FREE Fax: (800) 262-3299
From Anywhere in the U.S. or Canada

CRL B5A Series SurfaceMate® Square Base Shoe

- Adjustable Angle Base Shoe and Shimming System for Dry Glazing 1/2" (12 mm) Monolithic Tempered Glass

- Drilled and Counter Bored, or We Will Custom Drill to Your Specifications

- Works With TL5X10 and TLXATSM TAPER-LOC® Taper Sets

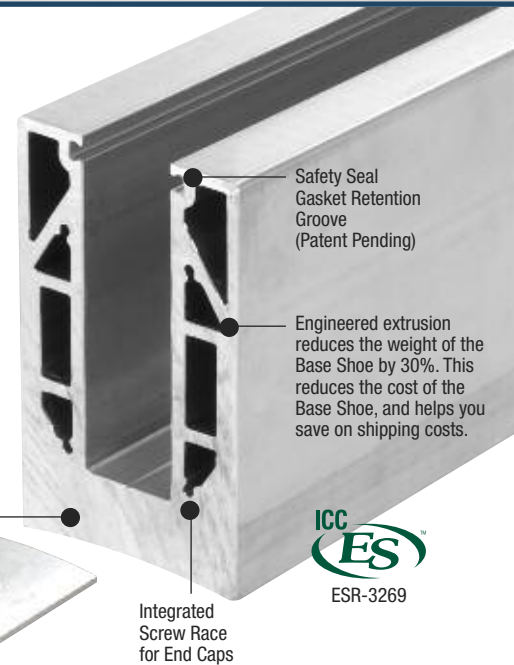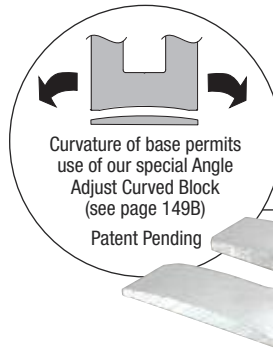- Custom Cutting and Mitering Service Available

- 6063 Alloy, T52 Temper

Safety Seal Gasket Retention Groove (Patent Pending)

Engineered extrusion reduces the weight of the Base Shoe by 30%. This reduces the cost of the Base Shoe, and helps you save on shipping costs.

Undrilled
1" (25 mm)
4-3/16" (106 mm)
2-1/2" (64 mm)

Hole Pattern "D"
12" (305 mm) C.T.C.
2-1/2" (64 mm)
4-3/16" (106 mm)
7/8" (22 mm)
1/2" (13 mm)
3/4" (19 mm)
9/16" (14 mm)

Hole Pattern "F"
12" (305 mm) C.T.C.
1/4" (6 mm)
2-1/16" (52 mm)
7/8" (22 mm)
7/8" (22 mm) Clearance
9/16" (14 mm)
1/2" (13 mm)

Curvature of base permits use of our special Angle Adjust Curved Block (see page 149B)
Patent Pending

Integrated Screw Race for End Caps

ICC ES
ESR-3269

New Safety Seal for Safer and Faster Installations (see page 118B).

CRL GREEN PRODUCT

USE MONOLITHIC TEMPERED GLASS

Works With:

ONLINE ARCHITECTURAL RESOURCES

TAPER-LOC X
DRY GLAZE RAILING SYSTEM

U.S. Patents 8,122,654 and 8,201,366.
Commonwealth of Australia Patents 2008207524 and 2012202256

CRL B5A Series SurfaceMate® Adjustable Angle Square Base Shoe and Shimming System is unlike any other base shoe you've ever used. This special aluminum extrusion features a curved base that sits atop a curved aluminum block at each bolt location, providing a margin of adjustment to accommodate uneven surfaces. Just install the mounting bolts loosely, then pivot the base shoe until your laser level tool indicates level. Additional matched size aluminum horseshoe shims are available in three thicknesses for adjusting the height when an abrupt dip is encountered (see page 186B).

No more tedious shimming to achieve vertical plumb, this new method will adjust within a 3 degree range, well in excess of the maximum allowable floor drainage slopes. The engineered cavities in the channel help to reduce the weight of the base shoe by about 30%, which reduces the weight on the mounting substrate, and also helps you save on shipping costs.

TL5X10 TAPER-LOC®
Standard Taper Sets
(see page 112B)

TLXATSM TAPER-LOC®
Adjustable Taper Sets
(see page 113B)

TAPER-LOC®
DRY GLAZE SYSTEM

For Use with TL5X10 and TLXATSM TAPER-LOC® Taper Sets for 1/2" (12 mm) Monolithic Tempered Glass

For Test Results and Drilling Recommendations, Visit **crlaurence.com/test-reports**.

GLASS SPECIFICATIONS:

For use with 1/2" (12 mm) Thick Monolithic Tempered Glass when using TAPER-LOC® Dry Glaze System

B5A SERIES SURFACEMATE® SQUARE BASE SHOE

12" (305 MM) C.T.C. CAT. NO.	STOCK LENGTH*	HOLE SIZE	COUNTER BORE X DEPTH	WEIGHT
B5A10D**	120" (3.05 m)	9/16" (14 mm)	7/8" (22 mm) x 1/2" (13 mm)	60 pounds (27 kg)
B5A10F**	120" (3.05 m)	9/16" (14 mm)	7/8" (22 mm) x 1/2" (13 mm)	60 pounds (27 kg)
B5A10	120" (3.05 m)	---	△ Extrusion Only (Without Holes)	60 pounds (27 kg)

** Our Best Sellers are pre-drilled at CRL's Manufacturing Facility. * Stock lengths have a tolerance of plus or minus 3/4" (19 mm). Minimum order: 1 each. All Base Shoe can be combined for quantity pricing. Must ship common carrier.

△ **NOTE:** 120" (3.05 m) Extrusion Only (without holes) cannot be used for the TAPER-LOC® Dry Glaze System unless the Base Shoe is fabricated to the above tested and approved hole and counter bore pattern. The TAPER-LOC® Dry Glaze System requires that the attachment holes be counter bored so that no part of the fastener protrudes above the base of the channel opening.

The most critical component in a railing system is the proper attachment of the Base Shoe to the substrate. CRL has engineered and tested a variety of attachment methods, and has developed an acceptable combination of drilling patterns and fasteners. The five tested methods of attachment can be found on pages 140B-141B, and associated fasteners are shown on pages 188B-189B.

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base-shoe [Search]
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147B

TOLL Phone: (800) 421-6144
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From Anywhere in the U.S. or Canada

CRL US ALUMINUM

CRL Cladding for B5A Series SurfaceMate® Base Shoe

Straight Cladding for B5A Series SurfaceMate® Base Shoe

CRL Cladding allows the user to match any of six architectural finishes offered in Cap Railing. It can be secured to the Base Shoe using CRL AT234 Cladding Tape and 95CBL Silicone Sealant (see page 177B). **NOTE:** Sold by individual pieces. Base Shoe requires two pieces for coverage on both sides.

- Available in Six Architectural Finishes
- Adhere With Cladding Tape and Silicone Sealant
- Custom Cutting and Mitering Service Available

CAT. NO.	GRADE	GA./THK.	LENGTH	FINISH
BACBS10	304	20/.035"	120" (3.05 m)	Brushed Stainless
BACPS10	304	20/.035"	120" (3.05 m)	Polished Stainless
BACPB10	C260	.045"	120" (3.05 m)	Polished Brass
BACSB10	C260	.045"	120" (3.05 m)	Satin Brass
BACSA10	5052	.050"	120" (3.05 m)	Satin Anodized
BACDU10	5052	.050"	120" (3.05 m)	Dark Bronze Anodized

Minimum order: 1 each. All finishes can be combined for quantity pricing. Custom lengths up to 168" (4.26 m) are available on special order. Must ship common carrier.

Fascia Cladding for B5A Series SurfaceMate® Base Shoe

CRL Fascia Cladding is offered for applications where the Base Shoe is installed to the side of the substrate. We offer Outside Fascia Cladding that will conceal the three exposed outside edges of the Base Shoe. We also offer the Inside Fascia Cladding Strip that will cover the top inside edge of the Base Shoe. Secure with CRL AT234 Cladding Tape and 95CBL Silicone Sealant (see page 177B).

- Available in Six Architectural Finishes
- Adhere With Cladding Tape and Silicone Sealant
- Custom Cutting and Mitering Services Available
- Outside and Inside Fascia Cladding Are Sold Separately

CRL Inside Fascia Cladding Strip 3/4" (19 mm) Wide

CRL Outside Fascia Cladding
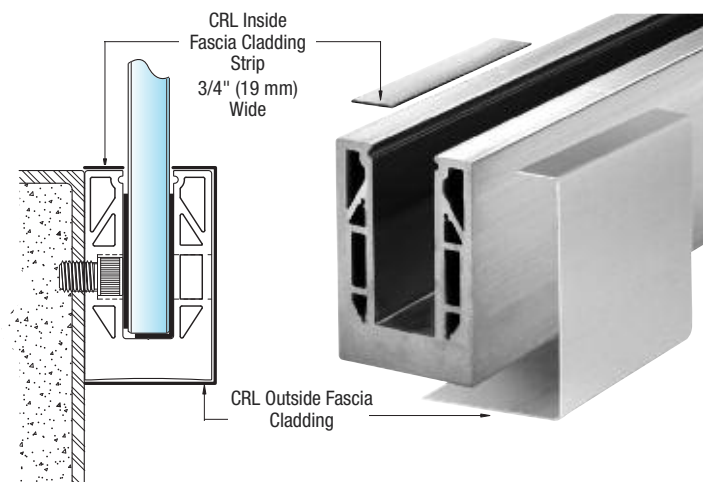
OUTSIDE FASCIA CLADDING

CAT. NO.	GRADE	GA./THK.	LENGTH	FINISH
B5AC0FBS	304	20/.035"	120" (3.05 m)	Brushed Stainless
B5AC0FPS	304	20/.035"	120" (3.05 m)	Polished Stainless
B5AC0FPB	C260	.045"	120" (3.05 m)	Polished Brass
B5AC0FSB	C260	.045"	120" (3.05 m)	Satin Brass
B5AC0FSA	5052	.050"	120" (3.05 m)	Satin Anodized
B5AC0FDU	5052	.050"	120" (3.05 m)	Dark Bronze Anodized

Minimum order: 1 each. All finishes can be combined for quantity pricing. Custom lengths up to 168" (4.26 m) are available on special order. Must ship common carrier.

INSIDE FASCIA CLADDING STRIP

CAT. NO.	GRADE	GA./THK.	LENGTH	FINISH
B5C1FBS	304	20/.035"	120" (3.05 m)	Brushed Stainless
B5C1FPS	304	20/.035"	120" (3.05 m)	Polished Stainless
B5C1FPB	C260	.045"	120" (3.05 m)	Polished Brass
B5C1FSB	C260	.045"	120" (3.05 m)	Satin Brass
B5C1FSA	5052	.050"	120" (3.05 m)	Satin Anodized
B5C1FDU	5052	.050"	120" (3.05 m)	Dark Bronze Anodized

Minimum order: 1 each. All finishes can be combined for quantity pricing. Custom lengths up to 168" (4.26 m) are available on special order. Must ship common carrier.

Application Suggestions for CRL Cladding

There are various methods of attaching the Cladding to the Base Shoe. All three types shown below will work, but a combination of AT234 Cladding Tape and 95CBL Neutral Cure Silicone (Type C) offers the best of two worlds; the instant bond of the tape along with the speed of application of the silicone and its flexible, durable adhesion. See page 177B for additional information.

Type A: Apply three rows of Tape to the inside face and two rows to the inside bottom leg of the Cladding. Carefully align the Cladding to the Base Shoe and press in place.

Type B: Apply Silicone to the inside face and bottom leg of the Cladding. Carefully align Cladding to the Base Shoe and press in place. Use clamps to hold the Cladding in place until the Silicone cures.

Type C: Apply two rows of Tape to the inside face of the Cladding, one toward the top and one toward the bottom. Apply the Silicone between the rows of Tape. Apply one row of Tape to the bottom leg, closest to the outer edge. Apply Silicone between Tape and corner bend in Cladding. Carefully align the Cladding to the Base Shoe and press in place.

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base-shoe   Search

148B

TOLL Phone: (800) 421-6144
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or enter the Catalog Number for complete product information

## CRL Cladding for B5A Series and SurfaceMate® Base Shoe

CAT. NO. SCCS5
Cladding Color Chip Chain
Minimum order is one each.

12" Mitered Corner Cladding for B5A Series SurfaceMate® Base Shoe

CRL Mitered Corner Cladding allows the user to match any of six architectural finishes offered in Cap Railing. Each leg is 12" (305 mm) in length, and can be secured to the Base Shoe using CRL AT234 Cladding Tape and 95CBL Silicone Sealant (see page 177B). Four pieces per set.

CRL 12" (305 mm) Welded End Cladding for B5A Series SurfaceMate® Base Shoe is also available. Go to **crlaurence.com/base-shoe** for details.
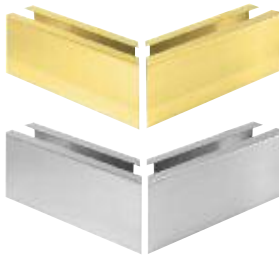
- 90 Degree and 135 Degree Corner Sets
- Available in Six Architectural Finishes
- Adhere With Cladding Tape and Silicone Sealant

90 DEGREE CORNER CAT. NO.	135 DEGREE CORNER CAT. NO.	GRADE	GA./THK.	FINISH
B5A90BS	B5A135BS	304	20/.035"	Brushed Stainless
B5A90PS	B5A135PS	304	20/.035"	Polished Stainless
B5A90PB	B5A135PB	C260	.045"	Polished Brass
B5A90SB	B5A135SB	C260	.045"	Satin Brass
B5A90SA	B5A135SA	5052	.050"	Satin Anodized
B5A90DU	B5A135DU	5052	.050"	Dark Bronze Anodized

Minimum order: 1 set. All finishes can be combined for quantity pricing.

End Caps for B5A Series SurfaceMate® Base Shoe

CRL End Caps allow the user to match any of six architectural finishes offered in Cap Railing. They can be secured to the Base Shoe using CRL AT234 Cladding Tape and 95CBL Silicone Sealant (see page 177B). One per package.

- Available in Six Architectural Finishes
- Adhere With Cladding Tape and Silicone Sealant

CAT. NO.	GRADE	GA./THK.	FINISH
B5AECBS	304	20/.035"	Brushed Stainless
B5AECPS	304	20/.035"	Polished Stainless
B5AECPB	C260	.045"	Polished Brass
B5AECSB	C260	.045"	Satin Brass
B5AECSA	5052	.050"	Satin Anodized
B5AECDU	5052	.050"	Dark Bronze Anodized

Minimum order: 1 each. All finishes can be combined for quantity pricing. CRL 12" (305 mm) Welded End Cladding for B5A Series SurfaceMate® Base Shoe is also available. Go to **crlaurence.com/base-shoe-cladding** for details.

CRL SurfaceMate® Angle Adjust Curved Blocks

AACS1

AACS2

SurfaceMate® Angle Adjust Curved Blocks (Cat. No. AACS1) are slotted to allow for minor adjustments to the placement of the block so that the base shoe can be adjusted to perfect plumb. The Angle Adjust Curved Block Set (Cat. No. AACS2) can be used in fascia mount application of SurfaceMate® and other flat side Base Shoe.

CAT. NO.	DESCRIPTION
AACS1	One-Piece Curved Block for Bottom Mount Installations
AACS2	Two-Piece Curved Block for Fascia Mount Installations

Minimum order AACS1: 10 each. Must be ordered in increments of 10. Minimum order AACS2: 5 Sets. Must be ordered in increments of 5 sets.

CRL SurfaceMate® Horseshoe Shims

Aluminum Horseshoe Shims are available in three thicknesses for use with SurfaceMate® Base Shoe. Shims are slotted to allow for minor adjustment, and can be stacked in various sizes to accommodate irregular surfaces below the base shoe and curved block. They can also be used in fascia mount applications of SurfaceMate® Base Shoe.

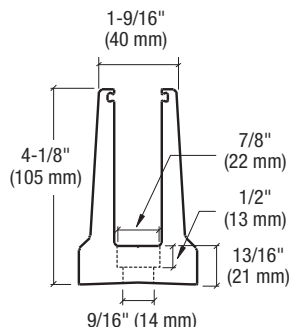| CAT. NO.	THICKNESS	SIZE
ALSS32	1/32" (.8 mm)	2-1/8" x 2-1/4" (54 x 57 mm)
ALSS16	1/16" (1.6 mm)	2-1/8" x 2-1/4" (54 x 57 mm)
ALSS08	1/8" (3.2 mm)	2-1/8" x 2-1/4" (54 x 57 mm)

Minimum order: 100 each. Must be ordered in increments of 100. Sizes can be combined for quantity pricing.

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149B

TOLL Phone: (800) 421-6144
FREE Fax: (800) 262-3299
From Anywhere in the U.S. or Canada

CRL B5T Series Tapered Base Shoe

- For 1/2" (12 mm) Monolithic Tempered Glass
- Typically Used as the Base Channel for Glass Railing Systems Requiring a Flush Installation Embedded in Concrete
- Works With TL5X10 and TLXATSM TAPER-LOC® Taper Sets
- Drilled and Counter Bored, or We Will Custom Drill to Your Specifications
- 6063 Alloy, T52 Temper

Safety Seal
Gasket Retention
Groove
(Patent Pending)

1" (25 mm)
4-1/8" (105 mm)
2-1/2" (64 mm)
Undrilled

1-9/16" (40 mm)
4-1/8" (105 mm)
7/8" (22 mm)
1/2" (13 mm)
13/16" (21 mm)
9/16" (14 mm)
Hole Pattern "D"
6" or 12" (152 or 305 mm) C.T.C.

New Safety Seal for
Safer and Faster
Installations.
(see page 118B)

ICC ES
ESR-3269

ONLINE **ARCHITECTURAL RESOURCES**

CRL B5T Tapered Base Shoe is typically used as the base channel for glass railing systems. It can be clad in six choices of architectural finishes (see next page). The most critical component in a railing system is the proper attachment of the Base Shoe to the substrate. CRL has engineered and tested a variety of attachment methods, and has developed an acceptable combination of drilling patterns and fasteners. The five tested methods of attachment can be found on pages 140B-141B, and associated fasteners are shown on pages 188B-189B.

Works With:

TL5X10 TAPER-LOC®
Standard Taper Sets
(see page 112B)

USE MONOLITHIC TEMPERED GLASS

TAPER-LOC X
DRY GLAZE RAILING SYSTEM

U.S. Patents 8,122,654 and 8,201,366.
Commonwealth of Australia
Patents 2008207524 and 2012202256

TAPER-LOC® DRY GLAZE SYSTEM

WET GLAZE SYSTEM

For Use with TL5X10 and
TLXATSM TAPER-LOC®
Taper Sets for 1/2"
(12 mm) Monolithic
Tempered Glass

For Use with 1/2" (12 mm)
Monolithic Tempered Glass

For Test Results and
Drilling Recommendations,
Visit **crlaurence.com/test-reports**.

TLXATSM TAPER-LOC®
Adjustable Taper Sets
(see page 113B)

GLASS SPECIFICATIONS:
For use with 1/2" (12 mm) Thick Monolithic Tempered Glass when using TAPER-LOC® Dry Glaze System and Wet Glaze System.

B5T SERIES TAPERED BASE SHOE

12" (305 MM) C.T.C. CAT. NO.	6" (152 MM) C.T.C. CAT. NO.	STOCK LENGTH*	HOLE SIZE	COUNTER BORE X DEPTH	WEIGHT
B5T10D**	B5T10D6**	120" (3.05 m)	9/16" (14 mm)	7/8" x 1/2" (22 x 13 mm)	57 pounds (26 kg)
B5T20D**	B5T20D6**	240" (6.10 m)	9/16" (14 mm)	7/8" x 1/2" (22 x 13 mm)	114 pounds (52 kg)
B5T10	---	120" (3.05 m)	---	ΔExtrusion Only (Without Holes)	57 pounds (26 kg)
B5T20	---	240" (6.10 m)	---	ΔExtrusion Only (Without Holes)	114 pounds (52 kg)

** Our Best Sellers are pre-drilled at CRL's Manufacturing Facility. Stock lengths have a tolerance of plus or minus 3/4" (19 mm). Minimum order: 1 each. All Base Shoe can be combined for quantity pricing. Must ship common carrier.

Δ **NOTE:** 120" (3.05 m) and 240" (6.10 m) Extrusion Only (without holes) cannot be used for the TAPER-LOC® Dry Glaze System unless the Base Shoe is fabricated to the above tested and approved hole and counter bore pattern. The TAPER-LOC® Dry Glaze System requires that the attachment holes be counter bored so that no part of the fastener protrudes above the base of the channel opening.

SHIPPING NOTE: Due to the difficulty in packaging and handling 240" (6.10 m) stock lengths, it is suggested that you take delivery of these at any of our service centers. If requiring shipment, all packaging and handling concerns must be agreed to by CRL and the customer prior to shipping. All shipping arrangements will be documented on your quotation for your signed approval.

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150B

TOLL Phone: (800) 421-6144
FREE Fax: (800) 262-3299
From Anywhere in the U.S. or Canada

CRL US ALUMINUM

CRL Cladding for B5T Series Tapered Base Shoe

Straight Cladding for B5T Series Tapered Base Shoe

CRL Cladding allows the user to match any of six architectural finishes offered in Cap Railing. It can be secured to the Base Shoe using CRL AT234 Cladding Tape and 95CBL Silicone Sealant (see page 177B). **NOTE:** Sold by individual pieces. Base Shoe requires two pieces for coverage on both sides.

- Available in Six Architectural Finishes
- Adhere With Cladding Tape and Silicone Sealant
- Custom Cutting and Mitering Service Available

CAT. NO.	GRADE	GA./THK.	LENGTH	FINISH
BTCBS10	304	20/.035"	120" (3.05 m)	Brushed Stainless
BTCPS10	304	20/.035"	120" (3.05 m)	Polished Stainless
BTCPB10	C260	.045"	120" (3.05 m)	Polished Brass
BTCSB10	C260	.045"	120" (3.05 m)	Satin Brass
BTCSA10	5052	.050"	120" (3.05 m)	Satin Anodized
BTCDU10	5052	.050"	120" (3.05 m)	Dark Bronze Anodized

Minimum order: 1 each. All finishes can be combined for quantity pricing.
Custom lengths up to 168" (4.26 m) are available on special order. Must ship common carrier.

12" Mitered Corner Cladding for B5T Series Tapered Base Shoe

CRL Mitered Corner Cladding allows the user to match any of six architectural finishes offered in Cap Railing. Each leg is 12" (305 mm) in length, and can be secured to the Base Shoe using CRL AT234 Cladding Tape and 95CBL Silicone Sealant (see page 177B). Four pieces per set.
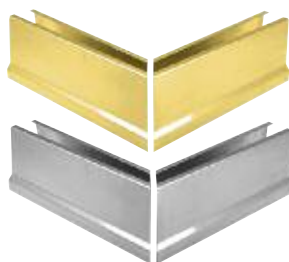
- 90 Degree and 135 Degree Corner Set
- Available in Six Architectural Finishes
- Adhere With Cladding Tape and Silicone Sealant

90 DEGREE CORNER CAT. NO.	135 DEGREE CORNER CAT. NO.	GRADE	GA./THK.	FINISH
B5T90BS	B5T135BS	304	20/.035"	Brushed Stainless
B5T90PS	B5T135PS	304	20/.035"	Polished Stainless
B5T90PB	B5T135PB	C260	.045"	Polished Brass
B5T90SB	B5T135SB	C260	.045"	Satin Brass
B5T90SA	B5T135SA	5052	.050"	Satin Anodized
B5T90DU	B5T135DU	5052	.050"	Dark Bronze Anodized

Minimum order: 1 set. All finishes can be combined for quantity pricing.

End Caps for B5T Series Tapered Base Shoe

CRL End Caps allow the user to match any of six architectural finishes offered in Cap Railing. They can be secured to the Base Shoe using CRL AT234 Cladding Tape and 95CBL Silicone Sealant (see page 177B). One per package.
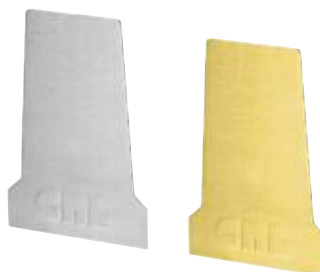
- Available in Six Architectural Finishes
- Adhere With Cladding Tape and Silicone Sealant

CAT. NO.	GRADE	GA./THK.	FINISH
B5TECBS	304	20/.035"	Brushed Stainless
B5TECPS	304	20/.035"	Polished Stainless
B5TECPB	C260	.045"	Polished Brass
B5TECSB	C260	.045"	Satin Brass
B5TECSA	5052	.050"	Satin Anodized
B5TECDU	5052	.050"	Dark Bronze Anodized

Minimum order: 1 each. All finishes can be combined for quantity pricing.

Alternate Method for Finishing Base Shoe Top

- Preferred for Exterior Installations Where a More Positive Seal is Required

An alternate method to finish off the Base Shoe's top opening is to roll in 5/8" (16 mm) Foam Backer Rod and run a cap bead of our Cat. No. 95CBL Neutral Cure Silicone (see page 125B) over it. This method is preferred in exterior installations where a more positive seal is required.

Roll in Backer Rod

Gun Cap Bead of Silicone

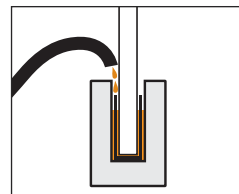| CAT. NO.	DESCRIPTION
SBRR	Roller Tool for Foam Backer Rod
B0CBR58C	100' (30.5 m) Roll 5/8" (16 mm) Foam Backer Rod
B0CBR58	1400' (426 m) Roll 5/8" (16 mm) Foam Backer Rod

Minimum order: Cat. No. SBRR is one each; Cat. No. B0CBR58C is one roll; Cat. No. B0CBR58 is one case.

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151B

TOLL Phone: (800) 421-6144
FREE Fax: (800) 262-3299
From Anywhere in the U.S. or Canada

CRL B5L Series Low Profile Square Base Shoe

- For 1/2" (12 mm) Monolithic Tempered Glass Wet Glazed Only
- Lower Profile Desired in Residential and Marine Applications
- Typically Used as the Base Channel for Glass Railing Systems or Windscreens
- Drilled and Counter Bored, or We Will Custom Drill to Your Specifications
- Custom Cutting and Mitering Service Available
- 6063 Alloy, T52 Temper

WET GLAZE ONLY

Safety Seal
Gasket Retention
Groove
(Patent Pending)

ICC ES
ESR-3269

1" (25 mm)
3-1/2" (89 mm)
2-1/4" (57 mm)

Undrilled

2-1/4" (57 mm)
3-1/2" (89 mm)
7/8" (22 mm)
1/2" (13 mm)
13/16" (21 mm)
9/16" (14 mm)

Hole Pattern "D"
6" or 12" (152 or 305 mm) C.T.C.

ONLINE ARCHITECTURAL RESOURCES

USE MONOLITHIC TEMPERED GLASS

WET GLAZE SYSTEM

For Use with 1/2" (12 mm)
Monolithic Tempered Glass

New Safety Seal for Safer
and Faster Installations
(see page 118B).

CRL B5L Series Low Profile Square Base Shoe is used as the base channel for glass railing systems. It can be clad in six choices of architectural finishes (see next page). The Low Profile Square Base Shoe is for use with the Wet Glaze System only. The most critical component in a railing system is the proper attachment of the Base Shoe to the substrate. CRL has engineered and tested a variety of attachment methods, and has developed an acceptable combination of drilling patterns. The five tested methods of attachment can be found on pages 140B-141B, and associated fasteners are shown on pages 188B-189B.

CAT. NO. SCCS5
Cladding Color Chip Chain
Minimum order is one each

GLASS SPECIFICATIONS:

For use with 1/2" (12 mm) Thick Monolithic Tempered Glass when using the Wet Glaze System. Low Profile Square Base Shoe cannot be used for the TAPER-LOC® Dry Glaze System.

For Test Results and
Drilling Recommendations,
Visit **crlaurence.com/test-reports**.

B5L SERIES LOW PROFILE SQUARE BASE SHOE

12" (305 MM) C.T.C. CAT. NO.	6" (152 MM) C.T.C. CAT. NO.	STOCK LENGTH*	HOLE SIZE	COUNTER BORE X DEPTH	WEIGHT
B5L10D**	B5L10D6**	120" (3.05 m)	9/16" (14 mm)	7/8" x 1/2" (22 x 13 mm)	61 pounds (28 kg)
B5L20D**	B5L20D6**	240" (6.10 m)	9/16" (14 mm)	7/8" x 1/2" (22 x 13 mm)	121 pounds (55 kg)
B5L10	---	120" (3.05 m)	---	Extrusion Only (Without Holes)	61 pounds (28 kg)
B5L20	---	240" (6.10 m)	---	Extrusion Only (Without Holes)	121 pounds (55 kg)

** Our Best Sellers are pre-drilled at CRL's Manufacturing Facility. *Stock lengths have a tolerance of plus or minus 3/4" (19 mm). Minimum order: 1 each. All Base Shoe can be combined for quantity pricing. Must ship common carrier.

SHIPPING NOTE: Due to the difficulty in packaging and handling 240" (6.10 m) stock lengths, it is suggested that you take delivery of these at any of our service centers. If requiring shipment, all packaging and handling concerns must be agreed to by CRL and the customer prior to shipping. All shipping arrangements will be documented on your quotation for your signed approval.

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152B

TOLL Phone: (800) 421-6144
FREE Fax: (800) 262-3299
From Anywhere in the U.S. or Canada

CRL US ALUMINUM

CRL Cladding for B5L Series Low Profile Base Shoe

Straight Cladding for B5L Series Low Profile Base Shoe

CRL Cladding allows the user to match any of six architectural finishes offered in Cap Railing. It can be secured to the Base Shoe using CRL AT234 Cladding Tape and 95CBL Silicone Sealant (see page 177B). **NOTE:** Sold by individual pieces. Base Shoe requires two pieces for coverage on both sides.

- Available in Six Architectural Finishes
- Adhere With Cladding Tape and Silicone Sealant
- Custom Cutting and Mitering Service Available

CAT. NO.	GRADE	GA./THK.	LENGTH	FINISH
BLCBS10	304	20/.035"	120" (3.05 m)	Brushed Stainless
BLCPS10	304	20/.035"	120" (3.05 m)	Polished Stainless
BLCPB10	C260	.045"	120" (3.05 m)	Polished Brass
BLCSB10	C260	.045"	120" (3.05 m)	Satin Brass
BLCSA10	5052	.050"	120" (3.05 m)	Satin Anodized
BLCDU10	5052	.050"	120" (3.05 m)	Dark Bronze Anodized

Minimum order: 1 each. All finishes can be combined for quantity pricing.
Custom lengths up to 168" (4.26 m) are available on special order. Must ship common carrier.

12" Mitered Corner Cladding for B5L Series Low Profile Base Shoe

CRL Mitered Corner Cladding allows the user to match any of six architectural finishes offered in Cap Railing. Each leg is 12" (305 mm) in length, and can be secured to the Base Shoe using CRL AT234 Cladding Tape and 95CBL Silicone Sealant (see page 177B). Four pieces per set.
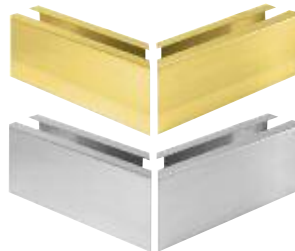
- 90 Degree and 135 Degree Corner Sets
- Available in Six Architectural Finishes
- Adhere With Cladding Tape and Silicone Sealant

90 DEGREE CORNER CAT. NO.	135 DEGREE CORNER CAT. NO.	GRADE	GA./THK.	FINISH
B5L90BS	B5L135BS	304	20/.035"	Brushed Stainless
B5L90PS	B5L135PS	304	20/.035"	Polished Stainless
B5L90PB	B5L135PB	C260	.045"	Polished Brass
B5L90SB	B5L135SB	C260	.045"	Satin Brass
B5L90SA	B5L135SA	5052	.050"	Satin Anodized
B5L90DU	B5L135DU	5052	.050"	Dark Bronze Anodized

Minimum order: 1 set. All finishes can be combined for quantity pricing.

End Caps for B5L Series Low Profile Base Shoe

CRL End Caps allow the user to match any of six architectural finishes offered in Cap Railing. They can be secured to the Base Shoe using CRL AT234 Cladding Tape and 95CBL Silicone Sealant (see page 177B). One per package.

- Available in Six Architectural Finishes
- Adhere With Cladding Tape and Silicone Sealant

CAT. NO.	GRADE	GA./THK.	FINISH
B5LECBS	304	20/.035"	Brushed Stainless
B5LECPS	304	20/.035"	Polished Stainless
B5LECPB	C260	.045"	Polished Brass
B5LECSB	C260	.045"	Satin Brass
B5LECSA	5052	.050"	Satin Anodized
B5LECDU	5052	.050"	Dark Bronze Anodized

Minimum order: 1 each. All finishes can be combined for quantity pricing.

12" Welded End Cladding for B5L Series Low Profile Base Shoe

CRL Welded End Cladding allows the user to match any of four architectural finishes offered in Cap Railing. It is 12" (305 mm) in length, and can be secured to the Base Shoe using 95CBL Silicone Sealant (see page 177B). One per package.

- Available in Four Architectural Finishes
- Adhere With Silicone Sealant

CAT. NO.	GRADE	GA./THK.	FINISH
B5LWCBS	304	20/.035"	Brushed Stainless
B5LWCPS	304	20/.035"	Polished Stainless
B5LWCPB	C260	.045"	Polished Brass
B5LWCSB	C260	.045"	Satin Brass

Minimum order: 1 each. All finishes can be combined for quantity pricing.

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or enter the Catalog Number for complete product information

TOLL Phone: (800) 421-6144
FREE Fax: (800) 262-3299
From Anywhere in the U.S. or Canada

CRL 8B58 Series Square Base Shoe

NEW!

- For 5/8" (15.09 to 16.66 mm) Monolithic Tempered Glass
- Environmentally Friendly (Green Product)
- 30% Lighter than CRL's Traditional B6N Series Base Shoe
- Drilled and Counter Bored, or We Will Custom Drill to Your Specifications
- Custom Cutting and Mitering Service Available
- 6063 Alloy, T52 Temper

ARCHITECTURAL RECORD
Record Products
WINNER

Safety Seal
Gasket Retention
Groove
(Patent Pending)

Engineered extrusion reduces the weight of the Base Shoe by 30%. This reduces the cost of the Base Shoe, and helps you save on shipping costs.

Undrilled
1-1/8" (29 mm)
4-1/8" (105 mm)
2-5/8" (67 mm)

Hole Pattern "D"
12" (305 mm) C.T.C.
2-5/8" (67 mm)
4-1/8" (105 mm)
7/8" (22 mm)
1/2" (13 mm)
13/16" (21 mm)
9/16" (14 mm)

New Safety Seal for Safer and Faster Installations (see page 118B).

Integrated Screw Race for End Caps

ICC ES
ESR-3269

Hole Pattern "F"
12" (305 mm) C.T.C.
1/4" (6 mm)
7/8" (22 mm)
2-1/16" (52 mm)
9/16" (14 mm)
7/8" (22 mm) Clearance
1/2" (13 mm)

GREEN PRODUCT

Works With:

TL5X10 TAPER-LOC® Standard Taper Sets (see page 112B)

TLXATSM TAPER-LOC® Adjustable Taper Sets (see page 113B)

ONLINE **ARCHITECTURAL RESOURCES**

USE MONOLITHIC TEMPERED GLASS

TAPER-LOC X
DRY GLAZE RAILING SYSTEM

U.S. Patents 8,122,654 and 8,201,366.
Commonwealth of Australia
Patents 2008207524 and 2012202256

CRL 8B58 Series Square Base Shoe is used as the base channel for glass railing systems. It can be clad in six choices of architectural finishes (see pages 156B-157B). The most critical component in a railing system is the proper attachment of the Base Shoe to the substrate. CRL has engineered and tested a variety of attachment methods, and has developed an acceptable combination of drilling patterns and fasteners. The five tested methods of attachment can be found on pages 140B-141B, and associated fasteners are shown on pages 188B-189B.

TAPER-LOC®
DRY GLAZE SYSTEM

For Use with TL5X10 and TLXATSM TAPER-LOC® Taper Sets for 5/8" (15.09 to 16.66 mm) Monolithic Tempered Glass

WET GLAZE SYSTEM
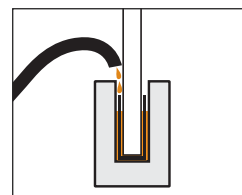
For Use with 5/8" (15.09 to 16.66 mm) Monolithic Tempered Glass

For Test Results and Drilling Recommendations, Visit **crlaurence.com/test-reports**.

GLASS SPECIFICATIONS:

For use with 5/8" (15 mm) Thick North American Monolithic Tempered Glass Meets ASTM, BSI, and DIN Tolerance Standards
Thickness Range: 15.09 mm (0.594") to 16.66 mm (0.656")

8B58 SERIES SQUARE BASE SHOE

12" (305 MM) C.T.C. CAT. NO.	STOCK LENGTH*	HOLE SIZE	COUNTER BORE X DEPTH	WEIGHT
8B58D**	120" (3.05 m)	9/16" (14 mm)	7/8" (22 mm) x 1/2" (13 mm)	60 pounds (27 kg)
8B58F**	120" (3.05 m)	9/16" (14 mm)	7/8" (22 mm) x 1/2" (13 mm)	60 pounds (27 kg)
8B58	120" (3.05 m)	---	Δ Extrusion Only (Without Holes)	60 pounds (27 kg)

** Our Best Sellers are pre-drilled at CRL's Manufacturing Facility. * Stock lengths have a tolerance of plus or minus 3/4" (19 mm). Minimum order: 1 each. All Base Shoe can be combined for quantity pricing. Must ship common carrier.

Δ **NOTE:** 120" (3.05 m) Extrusion Only (without holes) cannot be used for the TAPER-LOC® Dry Glaze System unless the Base Shoe is fabricated to the above tested and approved hole and counter bore pattern. The TAPER-LOC® Dry Glaze System requires that the attachment holes be counter bored so that no part of the fastener protrudes above the base of the channel opening.

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154B

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or enter the Catalog Number for complete product information

CRL US ALUMINUM

CRL B6N and B6S Series Square Base Shoe

- Two Models: One for North American Monolithic Tempered Glass 5/8" (15.09 to 16.66 mm) Thick, and One for European Monolithic Tempered Glass 14.50 to 15.50 mm Thick
- Drilled and Counter Bored, or We Will Custom Drill to Your Specifications
- Custom Cutting and Mitering Service Available
- 6063 Alloy, T52 Temper

Safety Seal
Gasket Retention
Groove
(Patent Pending)

New Safety Seal for Safer
and Faster Installations
(see page 118B).

1-1/8" (29 mm) **B6N Series**
1-3/32" (28 mm) **B6S Series**

2-5/8" (67 mm) **B6N Series**
2-19/32" (66 mm) **B6S Series**

4-1/8" (105 mm)

7/8" (22 mm)

1/2" (13 mm)

4-1/8" (105 mm)

13/16" (21 mm)

2-5/8" (67 mm)

9/16" (14 mm)

Undrilled

Hole Pattern "D"
12" (305 mm) B6N Series
5-7/8" or 11-13/16"
(150 or 300 mm) B6S Series

1/4" (6 mm)

7/8" (22 mm)

9/16" (14 mm)

1/2" (13 mm)

2-1/16" (52 mm)

7/8" (22 mm) Clearance

Hole Pattern "F"
12" (305 mm) B6N Series
5-7/8" or 11-13/16"
(150 or 300 mm) B6S Series

ICC ES
ESR-3269
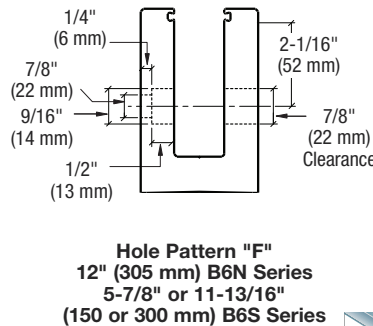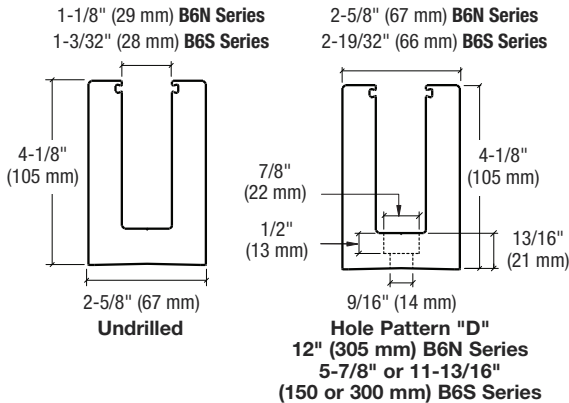
CRL B6N and B6S Series Square Base Shoe are used as the base channel for glass railing systems. They can be clad in six choices of architectural finishes (see pages 156B-157B). The most critical component in a railing system is the proper attachment of the Base Shoe to the substrate. CRL has engineered a variety of attachment methods, and has developed an acceptable combination of drilling patterns and fasteners. The five engineered methods of attachment can be found on pages 140B-141B. Associated fasteners are shown on pages 188B-189B.

Works With:

ONLINE *ARCHITECTURAL RESOURCES*

USE MONOLITHIC TEMPERED GLASS

TAPER-LOC X
DRY GLAZE RAILING SYSTEM

U.S. Patents 8,122,654 and 8,201,366.
Commonwealth of Australia
Patents 2008207524 and 2012202256

B6N GLASS SPECIFICATIONS:
For use with 5/8" (15 mm) Thick North American Monolithic Tempered Glass Meets ASTM, BSI, and DIN Tolerance Standards
Thickness Range: 15.09 mm (0.594") to 16.66 mm (0.656")

B6S GLASS SPECIFICATIONS:
For use with 15 mm Thick European Monolithic Tempered Glass Meets ASTM, BSI, and DIN Tolerance Standards
Thickness Range: 14.50 mm (0.570") to 15.50 mm (0.610")

TL5X10 TAPER-LOC®
Standard Taper Sets
(see page 112B)

TLXATSM TAPER-LOC®
Adjustable Taper Sets
(see page 113B)

TAPER-LOC® DRY GLAZE SYSTEM

For Use with TL5X10 and TLXATSM TAPER-LOC® Taper Sets for Monolithic Tempered Glass

WET GLAZE SYSTEM
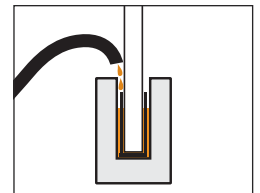
For Use with 5/8" (15 mm) Monolithic Tempered Glass

For Test Results and Drilling Recommendations, Visit **crlaurence.com/test-reports**.

B6N SERIES NORTH AMERICAN SQUARE BASE SHOE

12" (305 MM) C.T.C. CAT. NO.	STOCK LENGTH*	HOLE SIZE	COUNTER BORE X DEPTH	WEIGHT
B6N10D**	120" (3.05 m)	9/16" (14 mm)	7/8" x 1/2" (22 x 13 mm)	86 pounds (39 kg)
B6N10F**	120" (3.05 m)	9/16" (14 mm)	7/8" x 1/2" (22 x 13 mm)	86 pounds (39 kg)
B6N10	120" (3.05 m)	---	△ Extrusion Only (Without Holes)	86 pounds (39 kg)

**Our Best Sellers are pre-drilled at CRL's Manufacturing Facility. *Stock lengths have a tolerance of plus or minus 3/4" (19 mm). Minimum order: 1 each. All Base Shoe can be combined for quantity pricing. Must ship common carrier.

B6S SERIES EUROPEAN SQUARE BASE SHOE

11-13/16" (300 MM) C.T.C. CAT. NO.	5-7/8" (150 MM) C.T.C. CAT. NO.	STOCK LENGTH*	HOLE SIZE	COUNTER BORE X DEPTH	WEIGHT
B6S10D**	B6S10D6**	118-1/8" (3 m)	9/16" (14 mm)	7/8" x 1/2" (22 x 13 mm)	86 pounds (39 kg)
B6S10F**	B6S10F6**	118-1/8" (3 m)	9/16" (14 mm)	7/8" x 1/2" (22 x 13 mm)	86 pounds (39 kg)
B6S10	---	118-1/8" (3 m)	---	△ Extrusion Only (Without Holes)	86 pounds (39 kg)

**Our Best Sellers are pre-drilled at CRL's Manufacturing Facility. *Stock lengths have a tolerance of plus or minus 3/4" (19 mm). Minimum order: 1 each. All Base Shoe can be combined for quantity pricing. Must ship common carrier.

△ **NOTE:** 120" (3.05 m) and 118-1/8" (3 m) Extrusion Only (without holes) cannot be used for the TAPER-LOC® Dry Glaze System unless the Base Shoe is fabricated to the above tested and approved hole and counter bore pattern. The TAPER-LOC® Dry Glaze System requires that the attachment holes be counter bored so that no part of the fastener protrudes above the base of the channel opening.

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CRL US ALUMINUM

CRL Cladding for 8B58, B6N, and B6S Series Square Base Shoe

Straight Cladding for 8B58, B6N, and B6S Series Square Base Shoe

CRL Cladding allows the user to match any of six architectural finishes offered in Cap Railing. It can be secured to the Base Shoe using CRL AT234 Cladding Tape and 95CBL Silicone Sealant (see page 177B). **NOTE:** Sold by individual pieces. Base Shoe requires two pieces for coverage on both sides.

- Available in Six Architectural Finishes
- Adhere With Cladding Tape and Silicone Sealant
- Custom Cutting and Mitering Service Available

MANUFACTURED IN THE USA

CAT. NO.	GRADE	GA./THK.	LENGTH	FINISH
BSCBS10	304	20/.035"	120" (3.05 m)	Brushed Stainless
BSCPS10	304	20/.035"	120" (3.05 m)	Polished Stainless
BSCBS106	316	20/.035"	120" (3.05 m)	Brushed Stainless
BSCPS106	316	20/.035"	120" (3.05 m)	Polished Stainless
BSC236BS	316	20/.035"	236" (6 m)*	Brushed Stainless
BSC236PS	316	20/.035"	236" (6 m)*	Polished Stainless
BSCPB10	C260	.045"	120" (3.05 m)	Polished Brass
BSCSB10	C260	.045"	120" (3.05 m)	Satin Brass
BSCSA10	5052	.050"	120" (3.05 m)	Satin Anodized
BSCDU10	5052	.050"	120" (3.05 m)	Dark Bronze Anodized

Minimum order: 1 each. *Minimum order: 1 pack (6 pieces per pack). All finishes can be combined for quantity pricing. Custom lengths up to 168" (4.26 m) are available on special order. Must ship common carrier.

Fascia Cladding for 8B58, B6N, and B6S Series Square Base Shoe

CRL Fascia Cladding is offered for applications where the Base Shoe is installed to the side of the substrate. We offer Outside Fascia Cladding that will conceal the three exposed outside edges of the Base Shoe. We also offer the Inside Fascia Cladding Strip that will cover the top inside edge of the Base Shoe. Secure with CRL AT234 Cladding Tape and CRL 95CBL Silicone Sealant (see page 177B).

- Available in Six Architectural Finishes
- Adhere With Cladding Tape and Silicone Sealant
- Custom Cutting and Mitering Services Available
- Outside and Inside Fascia Cladding Are Sold Separately

MANUFACTURED IN THE USA

CRL Inside Fascia Cladding Strip 3/4" (19 mm) Wide

CRL Outside Fascia Cladding
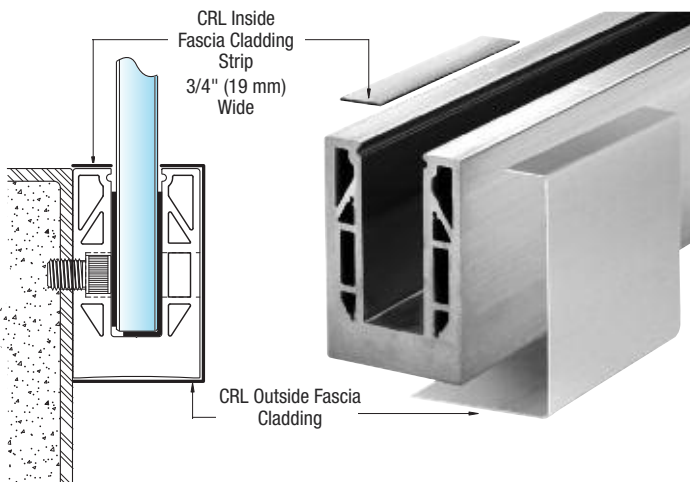
OUTSIDE FASCIA CLADDING

CAT. NO.	GRADE	GA./THK.	LENGTH	FINISH
B6C0FBS	304	20/.035"	120" (3.05 m)	Brushed Stainless
B6C0FPS	304	20/.035"	120" (3.05 m)	Polished Stainless
B6C0FPB	C260	.045"	120" (3.05 m)	Polished Brass
B6C0FSB	C260	.045"	120" (3.05 m)	Satin Brass
B6C0FSA	5052	.050"	120" (3.05 m)	Satin Anodized
B6C0FDU	5052	.050"	120" (3.05 m)	Dark Bronze Anodized

Minimum order: 1 each. All finishes can be combined for quantity pricing. Custom lengths up to 168" (4.26 m) are available on special order. Must ship common carrier.

INSIDE FASCIA CLADDING STRIP

CAT. NO.	GRADE	GA./THK.	LENGTH	FINISH
B5C1FBS	304	20/.035"	120" (3.05 m)	Brushed Stainless
B5C1FPS	304	20/.035"	120" (3.05 m)	Polished Stainless
B5C1FPB	C260	.045"	120" (3.05 m)	Polished Brass
B5C1FSB	C260	.045"	120" (3.05 m)	Satin Brass
B5C1FSA	5052	.050"	120" (3.05 m)	Satin Anodized
B5C1FDU	5052	.050"	120" (3.05 m)	Dark Bronze Anodized

Minimum order: 1 each. All finishes can be combined for quantity pricing. Custom lengths up to 168" (4.26 m) are available on special order. Must ship common carrier.

Application Suggestions for CRL Cladding

There are various methods of attaching the Cladding to the Base Shoe. All three types shown below will work, but a combination of CRL AT234 Cladding Tape and 95CBL Neutral Cure Silicone (Type C) offers the best of two worlds; the instant bond of the tape along with the speed of application of the silicone and its flexible, durable adhesion. See page 177B for additional information.

Type A: Apply three rows of Tape to the inside face and two rows to the inside bottom leg of the Cladding. Carefully align the Cladding to the Base Shoe and press in place.

Type B: Apply Silicone to the inside face and bottom leg of the Cladding. Carefully align Cladding to the Base Shoe and press in place. Use clamps to hold the Cladding in place until the Silicone cures.

Type C: Apply two rows of Tape to the inside face of the Cladding, one toward the top and one toward the bottom. Apply the Silicone between the rows of Tape. Apply one row of Tape to the bottom leg, closest to the outer edge. Apply Silicone between Tape and corner bend in Cladding. Carefully align the Cladding to the Base Shoe and press in place.

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or enter the Catalog Number for complete product information

TOLL Phone: (800) 421-6144
FREE Fax: (800) 262-3299
From Anywhere in the U.S. or Canada

CRL US ALUMINUM

CRL Cladding for 8B58, B6N, and B6S Series Square Base Shoe

CAT. NO. SCCS5
Cladding Color Chip Chain
Minimum order is one each.

12" Mitered Corner Cladding for 8B58, B6N, and B6S Series Square Base Shoe

CRL Mitered Corner Cladding allows the user to match any of six architectural finishes offered in Cap Railing. Each leg is 12" (305 mm) in length, and can be secured to the Base Shoe using CRL AT234 Cladding Tape and 95CBL Silicone Sealant (see page 177B). Four pieces per set.

ONLINE *ARCHITECTURAL* RESOURCES

- 90 Degree and 135 Degree Corner Sets
- Available in Six Architectural Finishes
- Adhere With Cladding Tape and Silicone Sealant

90 DEGREE CORNER CAT. NO.	135 DEGREE CORNER CAT. NO.	GRADE	GA./THK.	FINISH
B6S90BS	B6S135BS	304	20/.035"	Brushed Stainless
B6S90PS	B6S135PS	304	20/.035"	Polished Stainless
B6S90BS6	B6S135BS6	316	20/.035"	Brushed Stainless
B6S90PS6	B6S135PS6	316	20/.035"	Polished Stainless
B6S90PB	B6S135PB	C260	.045"	Polished Brass
B6S90SB	B6S135SB	C260	.045"	Satin Brass
B6S90SA	B6S135SA	5052	.050"	Satin Anodized
B6S90DU	B6S135DU	5052	.050"	Dark Bronze Anodized

Minimum order: 1 set. All finishes can be combined for quantity pricing.

End Caps for 8B58, B6N, and B6S Series Square Base Shoe

CRL End Caps allow the user to match any of six architectural finishes offered in Cap Railing. B6 End Caps are secured to the Base Shoe using CRL AT234 Cladding Tape and 95CBL Silicone Sealant (see page 177B). 8B58 End Caps are secured by four screws (included). One per package.

For 8B58 Series   For B6N/B6S Series

- Available in Six Architectural Finishes

FOR 8B58 CAT. NO.	FOR B6N/B6S CAT. NO.	GRADE	GA./THK.	FINISH
8B58CBS	B6SECBS	304	20/.035"	Brushed Stainless
8B58CPS	B6SECPS	304	20/.035"	Polished Stainless
8B58CBS6	B6SECBS6	316	20/.035"	Brushed Stainless
8B58CPS6	B6SECPS6	316	20/.035"	Polished Stainless
8B58CPB	B6SECPB	C260	.045"	Polished Brass
8B58CSB	B6SECSB	C260	.045"	Satin Brass
8B58CSA	B6SECSA	5052	.050"	Satin Anodized
8B58CDU	B6SECDU	5052	.050"	Dark Bronze Anodized

Minimum order: 1 each. All finishes can be combined for quantity pricing.

12" Welded End Cladding for 8B58, B6N, and B6S Series Square Base Shoe

CRL Welded End Cladding allows the user to match any of four architectural finishes offered in Cap Railing. It is 12" (305 mm) in length, and can be secured to the Base Shoe using 95CBL Silicone Sealant (see page 177B). One per package.
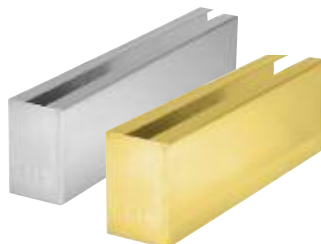
- Available in Four Architectural Finishes
- Adhere With Silicone Sealant

CAT. NO.	GRADE	GA./THK.	FINISH
B6WECBS	304	20/.035"	Brushed Stainless
B6WECPS	304	20/.035"	Polished Stainless
B6WECBS6	316	20/.035"	Brushed Stainless
B6WECPS6	316	20/.035"	Polished Stainless
B6WECPB	C260	.045"	Polished Brass
B6WECSB	C260	.045"	Satin Brass

Minimum order: 1 each. All finishes can be combined for quantity pricing.

go to crlaurence.com to search for
base-shoe   Search
or enter the Catalog Number for complete product information

157B

TOLL Phone: (800) 421-6144
FREE Fax: (800) 262-3299
From Anywhere in the U.S. or Canada

CRL 8B34 Series Heavy-Duty Square Base Shoe

- **For 3/4" (19 mm) Monolithic Tempered Glass**
- Environmentally Friendly (Green Product)
- 30% Lighter than CRL's Traditional B7S Series Base Shoe
- Typically Used as the Base Channel for Glass Railing Systems in Arenas
- Drilled and Counter Bored, or We Will Custom Drill to Your Specifications
- Custom Cutting and Mitering Service Available
- 6063 Alloy, T52 Temper

NEW!

Safety Seal
Gasket Retention
Groove
(Patent Pending)

Engineered extrusion
reduces the weight of
the Base Shoe by 30%.
This reduces the cost
of the Base Shoe, and
helps you save on
shipping costs.

Integrated
Screw Race
for End Caps

1-1/4" (32 mm)
4-1/8" (105 mm)
2-3/4" (70 mm)
Undrilled

2-3/4" (70 mm)
4-1/8" (105 mm)
1/2" (13 mm)
7/8" (22 mm)
13/16" (21 mm)
9/16" (14 mm)
Hole Pattern "D"
12" (305 mm) C.T.C.

New Safety Seal for Safer
and Faster Installations
(see page 118B).

ICC ES
ESR-3269

1/4" (6 mm)
9/16" (14 mm)
2-1/16" (52 mm)
7/8" (22 mm)
7/8" (22 mm) Clearance
1/2" (13 mm)
Hole Pattern "F"
12" (305 mm) C.T.C.

ONLINE **ARCHITECTURAL RESOURCES**

CRL 8B34 Series Heavy-Duty Square Base Shoe
is used as the base channel for glass railing systems.
It can be clad in six choices of architectural finishes
(see pages 160B-161B). The most critical component
in a railing system is the proper attachment of the Base
Shoe to the substrate. CRL has engineered and tested
a variety of attachment methods, and has developed an
acceptable combination of drilling patterns and fasteners.
The five tested methods of attachment can be found on
pages 140B-141B. Associated fasteners are shown on
pages 188B-189B.

GREEN PRODUCT

USE MONOLITHIC TEMPERED GLASS

TAPER-LOC X
DRY GLAZE RAILING SYSTEM

U.S. Patents 8,122,654 and 8,201,366.
Commonwealth of Australia
Patents 2008207524 and 2012202256

Works With:

TL5X10 TAPER-LOC®
Standard Taper Sets
(see page 112B)

TAPER-LOC®
DRY GLAZE SYSTEM

For Use with TL5X10 and
TLXATSM TAPER-LOC®
Taper Sets for 3/4" (19 mm)
Monolithic Tempered Glass

WET GLAZE SYSTEM

For Use with 3/4" (19 mm)
Monolithic Tempered Glass

GLASS SPECIFICATIONS:

For use with 3/4" (19 mm) Thick Monolithic Tempered Glass when
using TAPER-LOC® Dry Glaze System or Wet Glaze System.

TLXATSM TAPER-LOC®
Adjustable Taper Sets
(see page 113B)

For Test Results and
Drilling Recommendations,
Visit crlaurence.com/test-reports.

8B34 SERIES HEAVY-DUTY SQUARE BASE SHOE

12" (305 MM) C.T.C. CAT. NO.	STOCK LENGTH*	HOLE SIZE	COUNTER BORE X DEPTH	WEIGHT
8B34D**	120" (3.05 m)	9/16" (14 mm)	7/8" (22 mm) x 1/2" (13 mm)	60 pounds (27 kg)
8B34F**	120" (3.05 m)	9/16" (14 mm)	7/8" (22 mm) x 1/2" (13 mm)	60 pounds (27 kg)
8B34	120" (3.05 m)	---	Δ Extrusion Only (Without Holes)	60 pounds (27 kg)

** Our Best Sellers are pre-drilled at CRL's Manufacturing Facility. *Stock lengths have a tolerance of plus or minus 3/4" (19 mm). Minimum order: 1 each. All Base Shoe can be combined for quantity pricing. Must ship common carrier.

Δ **NOTE:** 120" (3.05 m) Extrusion Only (without holes) cannot be used for the TAPER-LOC® Dry Glaze System unless the Base Shoe is fabricated to the above tested and approved hole and counter bore pattern. The TAPER-LOC® Dry Glaze System requires that the attachment holes be counter bored so that no part of the fastener protrudes above the base of the channel opening.

go to crlaurence.com to search for
base-shoe Search
or enter the Catalog Number for complete product information

158B

TOLL Phone: (800) 421-6144
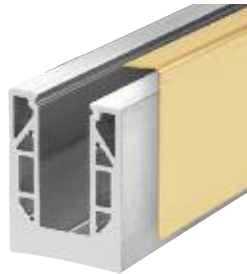**FREE** Fax: (800) 262-3299
From Anywhere in the U.S. or Canada

CRL US ALUMINUM

CRL B7S Series Heavy-Duty Square Base Shoe

- For 3/4" (19 mm) Monolithic Tempered Glass
- Typically Used as the Base Channel for Glass Railing Systems in Arenas
- Drilled and Counter Bored, or We Will Custom Drill to Your Specifications
- Custom Cutting and Mitering Service Available
- 6063 Alloy, T52 Temper

Safety Seal
Gasket Retention
Groove
(Patent Pending)

1-1/4" (32 mm)
4-1/8" (105 mm)
2-3/4" (70 mm)

Undrilled

2-3/4" (70 mm)
4-1/8" (105 mm)
7/8" (22 mm)
1/2" (13 mm)
13/16" (21 mm)
9/16" (14 mm)

Hole Pattern "D"
6" or 12" (152 or 305 mm) C.T.C.

New Safety Seal for Safer
and Faster Installations
(see page 118B).

ICC ES
ES
ESR-3269

1/4" (6 mm)
7/8" (22 mm)
9/16" (14 mm)
1/2" (13 mm)
2-1/16" (52 mm)
7/8" (22 mm) Clearance

Hole Pattern "F"
6" or 12" (152 or 305 mm) C.T.C.

CRL B7S Series Heavy-Duty Square Base Shoe is used as the base channel for glass railing systems. It can be clad in six choices of architectural finishes (see pages 160B-161B). The most critical component in a railing system is the proper attachment of the Base Shoe to the substrate. CRL has engineered and tested a variety of attachment methods, and has developed an acceptable combination of drilling patterns and fasteners. The five tested methods of attachment can be found on pages 140B-141B. Associated fasteners are shown on pages 188B-189B.

Works With:

TL5X10 TAPER-LOC®
Standard Taper Sets
(see page 112B)

TLXATSM TAPER-LOC®
Adjustable Taper Sets
(see page 113B)

GLASS SPECIFICATIONS:
For use with 3/4" (19 mm) Thick Monolithic Tempered Glass when using TAPER-LOC® Dry Glaze System or Wet Glaze System.

ONLINE *ARCHITECTURAL RESOURCES*

USE MONOLITHIC TEMPERED GLASS

TAPER-LOC X
DRY GLAZE RAILING SYSTEM

U.S. Patents 8,122,654 and 8,201,366.
Commonwealth of Australia
Patents 2008207524 and 2012202256

TAPER-LOC®
DRY GLAZE SYSTEM

WET GLAZE SYSTEM

For Use with TL5X10 and
TLXATSM TAPER-LOC® Taper
Sets for 3/4" (19 mm)
Monolithic Tempered Glass

For Use with 3/4" (19 mm)
Monolithic Tempered Glass

For Test Results and
Drilling Recommendations,
Visit **crlaurence.com/test-reports**.

B7S SERIES HEAVY-DUTY SQUARE BASE SHOE

12" (305 MM) C.T.C. CAT. NO.	6" (152 MM) C.T.C. CAT. NO.	STOCK LENGTH*	HOLE SIZE	COUNTER BORE X DEPTH	WEIGHT
B7S10D**	B7S10D6**	120" (3.05 m)	9/16" (14 mm)	7/8" x 1/2" (22 x 13 mm)	86 pounds (39 kg)
B7S20D**	B7S20D6**	240" (6.10 m)	9/16" (14 mm)	7/8" x 1/2" (22 x 13 mm)	172 pounds (78 kg)
B7S10F**	B7S10F6**	120" (3.05 m)	9/16" (14 mm)	7/8" x 1/2" (22 x 13 mm)	86 pounds (39 kg)
B7S20F**	B7S20F6**	240" (6.10 m)	9/16" (14 mm)	7/8" x 1/2" (22 x 13 mm)	172 pounds (78 kg)
B7S10	---	120" (3.05 m)	---	Δ Extrusion Only (Without Holes)	86 pounds (39 kg)
B7S20	---	240" (6.10 m)	---	Δ Extrusion Only (Without Holes)	172 pounds (78 kg)

** Our Best Sellers are pre-drilled at CRL's Manufacturing Facility. *Stock lengths have a tolerance of plus or minus 3/4" (19 mm). Minimum order: 1 each. All Base Shoe can be combined for quantity pricing. Must ship common carrier.

Δ **NOTE:** 120" (3.05 m) and 240" (6.10 m) Extrusion Only (without holes) cannot be used for the TAPER-LOC® Dry Glaze System unless the Base Shoe is fabricated to the above tested and approved hole and counter bore pattern. The TAPER-LOC® Dry Glaze System requires that the attachment holes be counter bored so that no part of the fastener protrudes above the base of the channel opening.

SHIPPING NOTE: Due to the difficulty in packaging and handling 240" (6.10 m) stock lengths, it is suggested that you take delivery of these at any of our service centers. If requiring shipment, all packaging and handling concerns must be agreed to by CRL and the customer prior to shipping. All shipping arrangements will be documented on your quotation for your signed approval.

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base-shoe | Search

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159B

TOLL Phone: (800) 421-6144
FREE Fax: (800) 262-3299
From Anywhere in the U.S. or Canada

CRL
US ALUMINUM

CRL Cladding for 8B34 and B7S Series Heavy-Duty Square Base Shoe

Straight Cladding for 8B34 and B7S Series Heavy-Duty Square Base Shoe

CRL Cladding allows the user to match any of six architectural finishes offered in Cap Railing. It can be secured to the Base Shoe using CRL AT234 Cladding Tape and 95CBL Silicone Sealant (see page 177B). **NOTE:** Sold by individual pieces. Base Shoe requires two pieces for coverage on both sides.

- Available in Six Architectural Finishes
- Adhere With Cladding Tape and Silicone Sealant
- Custom Cutting and Mitering Service Available

CAT. NO.	GRADE	GA./THK.	LENGTH	FINISH
BSCBS10	304	20/.035"	120" (3.05 m)	Brushed Stainless
BSCPS10	304	20/.035"	120" (3.05 m)	Polished Stainless
BSCBS106	316	20/.035"	120" (3.05 m)	Brushed Stainless
BSCPS106	316	20/.035"	120" (3.05 m)	Polished Stainless
BSC236BS	316	20/.035"	236" (6 m)*	Brushed Stainless
BSC236PS	316	20/.035"	236" (6 m)*	Polished Stainless
BSCPB10	C260	.045"	120" (3.05 m)	Polished Brass
BSCSB10	C260	.045"	120" (3.05 m)	Satin Brass
BSCSA10	5052	.050"	120" (3.05 m)	Satin Anodized
BSCDU10	5052	.050"	120" (3.05 m)	Dark Bronze Anodized

Minimum order: 1 each. *Minimum order: 1 pack (6 pieces per pack). All finishes can be combined for quantity pricing. Custom lengths up to 168" (4.26 m) are available on special order. Must ship common carrier.

Fascia Cladding for 8B34 and B7S Series Heavy-Duty Square Base Shoe

CRL Fascia Cladding is offered for applications where the Base Shoe is installed to the side of the substrate. We offer Outside Fascia Cladding that will conceal the three exposed outside edges of the Base Shoe. We also offer the Inside Fascia Cladding Strip that will cover the top inside edge of the Base Shoe. Secure with CRL AT234 Cladding Tape and 95CBL Silicone Sealant (see page 177B).

- Available in Six Architectural Finishes
- Adhere With Cladding Tape and Silicone Sealant
- Custom Cutting and Mitering Services Available
- Outside and Inside Fascia Cladding Are Sold Separately

CRL Inside Fascia Cladding Strip 3/4" (19 mm) Wide

CRL Outside Fascia Cladding

OUTSIDE FASCIA CLADDING

CAT. NO.	GRADE	GA./THK.	LENGTH	FINISH
B7C0FBS	304	20/.035"	120" (3.05 m)	Brushed Stainless
B7C0FPS	304	20/.035"	120" (3.05 m)	Polished Stainless
B7C0FPB	C260	.045"	120" (3.05 m)	Polished Brass
B7C0FSB	C260	.045"	120" (3.05 m)	Satin Brass
B7C0FSA	5052	.050"	120" (3.05 m)	Satin Anodized
B7C0FDU	5052	.050"	120" (3.05 m)	Dark Bronze Anodized

Minimum order: 1 each. All finishes can be combined for quantity pricing. Custom lengths up to 168" (4.26 m) are available on special order. Must ship common carrier.

INSIDE FASCIA CLADDING STRIP

CAT. NO.	GRADE	GA./THK.	LENGTH	FINISH
B5C1FBS	304	20/.035"	120" (3.05 m)	Brushed Stainless
B5C1FPS	304	20/.035"	120" (3.05 m)	Polished Stainless
B5C1FPB	C260	.045"	120" (3.05 m)	Polished Brass
B5C1FSB	C260	.045"	120" (3.05 m)	Satin Brass
B5C1FSA	5052	.050"	120" (3.05 m)	Satin Anodized
B5C1FDU	5052	.050"	120" (3.05 m)	Dark Bronze Anodized

Minimum order: 1 each. All finishes can be combined for quantity pricing. Custom lengths up to 168" (4.26 m) are available on special order. Must ship common carrier.

Application Suggestions for CRL Cladding

There are various methods of attaching the Cladding to the Base Shoe. All three types shown below will work, but a combination of AT234 Cladding Tape and 95CBL Neutral Cure Silicone (Type C) offers the best of two worlds; the instant bond of the tape along with the speed of application of the silicone and its flexible, durable adhesion. See page 177B for additional information.

Type A: Apply three rows of Tape to the inside face and two rows to the inside bottom leg of the Cladding. Carefully align the Cladding to the Base Shoe and press in place.

Type B: Apply Silicone to the inside face and bottom leg of the Cladding. Carefully align Cladding to the Base Shoe and press in place. Use clamps to hold the Cladding in place until the Silicone cures.

Type C: Apply two rows of Tape to the inside face of the Cladding, one toward the top and one toward the bottom. Apply the Silicone between the rows of Tape. Apply one row of Tape to the bottom leg, closest to the outer edge. Apply Silicone between Tape and corner bend in Cladding. Carefully align the Cladding to the Base Shoe and press in place.

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base-shoe   Search

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160B

TOLL Phone: (800) 421-6144
FREE Fax: (800) 262-3299
From Anywhere in the U.S. or Canada

CRL US ALUMINUM

CRL Cladding for 8B34 and B7S Series Heavy-Duty Square Base Shoe

CAT. NO. SCCS5
Cladding Color Chip Chain
Minimum order is one each.

12" Mitered Corner Cladding for 8B34 and B7S Series Heavy-Duty Square Base Shoe

CRL Mitered Corner Cladding allows the user to match any of six architectural finishes offered in Cap Railing. Each leg is 12" (305 mm) in length, and can be secured to the Base Shoe using CRL AT234 Cladding Tape and 95CBL Silicone Sealant (see page 177B). Four pieces per set.

- 90 Degree and 135 Degree Corner Sets
- Available in Six Architectural Finishes
- Adhere With Cladding Tape and Silicone Sealant

90 DEGREE CORNER CAT. NO.	135 DEGREE CORNER CAT. NO.	GRADE	GA./THK.	FINISH
B7S90BS	B7S135BS	304	20/.035"	Brushed Stainless
B7S90PS	B7S135PS	304	20/.035"	Polished Stainless
B7S90BS6	B7S135BS6	316	20/.035"	Brushed Stainless
B7S90PS6	B7S135PS6	316	20/.035"	Polished Stainless
B7S90PB	B7S135PB	C260	.045"	Polished Brass
B7S90SB	B7S135SB	C260	.045"	Satin Brass
B7S90SA	B7S135SA	5052	.050"	Satin Anodized
B7S90DU	B7S135DU	5052	.050"	Dark Bronze Anodized

Minimum order: 1 set. All finishes can be combined for quantity pricing.

End Caps for 8B34 and B7S Series Heavy-Duty Square Base Shoe

CRL End Caps allow the user to match any of six architectural finishes offered in Cap Railing. B7S End Caps are secured to the Base Shoe using CRL AT234 Cladding Tape and 95CBL Silicone Sealant (see page 177B). 8B34 End Caps are secured by four screws (included). One per package.

For 8B34 Series   For B7S Series

- Available in Six Architectural Finishes

FOR 8B34 CAT. NO.	FOR B7S CAT. NO.	GRADE	GA./THK.	FINISH
8B34CBS	B7SECBS	304	20/.035"	Brushed Stainless
8B34CPS	B7SECPS	304	20/.035"	Polished Stainless
8B34CBS6	B7SECBS6	316	20/.035"	Brushed Stainless
8B34CPS6	B7SECPS6	316	20/.035"	Polished Stainless
8B34CPB	B7SECPB	C260	.045"	Polished Brass
8B34CSB	B7SECSB	C260	.045"	Satin Brass
8B34CSA	B7SECSA	5052	.050"	Satin Anodized
8B34CDU	B7SECDU	5052	.050"	Dark Bronze Anodized

Minimum order: 1 each. All finishes can be combined for quantity pricing.

12" Welded End Cladding for 8B34 and B7S Series Heavy-Duty Square Base Shoe

CRL Welded End Cladding allows the user to match any of four architectural finishes offered in Cap Railing. It is 12" (305 mm) in length, and can be secured to the Base Shoe using CRL AT234 Cladding Tape and 95CBL Silicone Sealant (see page 177B). One per package.
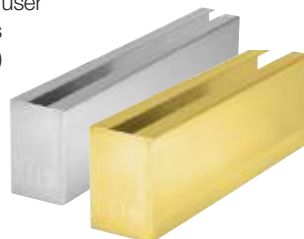
- Available in Four Architectural Finishes
- Adhere With Silicone Sealant

CAT. NO.	GRADE	GA./THK.	FINISH
B7SWCBS	304	20/.035"	Brushed Stainless
B7SWCPS	304	20/.035"	Polished Stainless
B7SWCBS6	316	20/.035"	Brushed Stainless
B7SWCPS6	316	20/.035"	Polished Stainless
B7SWCPB	C260	.045"	Polished Brass
B7SWCSB	C260	.045"	Satin Brass

Minimum order: 1 each. All finishes can be combined for quantity pricing.

ONLINE *ARCHITECTURAL* R E S O U R C E S

go to crlaurence.com to search for

base-shoe   Search

161B

or enter the Catalog Number for complete product information

TOLL Phone: (800) 421-6144
FREE Fax: (800) 262-3299
From Anywhere in the U.S. or Canada

CRL 9BL56 Series Laminated Square Base Shoe

- For 9/16" (13.52 mm) Laminated Tempered Glass
- Environmentally Friendly (Green Product)
- 30% Lighter than CRL's Traditional L56S Series Base Shoe
- Typically Used as the Base Channel for Glass Railing Systems or Windscreens
- Works With LTL96X1 TAPER-LOC® Standard Taper Sets
- Custom Cutting and Mitering Service Available
- Engineering Reports Available
- Not Recommended for Use With Wet Set Expanding Cement
- 6063 Alloy, T52 Temper

NEW!

GREEN PRODUCT

Safety Seal Gasket Retention Groove (Patent Pending)

Engineered extrusion reduces the weight of the Base Shoe by 30%. This reduces the cost of the Base Shoe, and helps you save on shipping costs.

1-3/8" (35 mm)

4-3/4" (121 mm)

2-7/8" (73 mm)

Undrilled

2-7/8" (73 mm)

4-3/4" (121 mm)

7/8" (22 mm)

1/2" (13 mm)

13/16" (21 mm)

9/16" (14 mm)

Hole Pattern "D"
12" (305 mm) C.T.C.

New Safety Seal for Safer and Faster Installations (see page 118B).

Integrated Screw Race for End Caps

ICC ES
ESR-3842

1/4" (6 mm)

2-1/16" (52 mm)

7/8" (22 mm)

7/8" (22 mm) Clearance

9/16" (14 mm)

1/2" (13 mm)

Hole Pattern "F"
12" (305 mm) C.T.C.

ARCHITECTURAL RECORD
BEST IN CATEGORY

USE LAMINATED TEMPERED GLASS

ONLINE ARCHITECTURAL RESOURCES

TAPER-LOC X-1 DRY GLAZE RAILING SYSTEM

U.S. Patents 8,122,654 and 8,201,366. Commonwealth of Australia Patents 2008207524 and 2012202256

Works With:

LTL96X1 TAPER-LOC® Standard Taper Sets (see page 114B)

TAPER-LOC® DRY GLAZE SYSTEM

For Use with LTL96X1 TAPER-LOC® Taper Sets for 9/16" (13.52 mm) Laminated Tempered Glass

CRL 9BL56 Series Laminated Square Base Shoe is used as the base channel for glass railing systems. It can be clad in four choices of architectural finishes (see pages 164B-165B). The most critical component in a railing system is the proper attachment of the Base Shoe to the substrate. CRL has engineered a variety of attachment methods, and has developed an acceptable combination of drilling patterns and fasteners. The five engineered methods of attachment can be found on pages 140B-141B. Associated fasteners are shown on pages 188B-189B.

For Test Results and Drilling Recommendations, Visit crlaurence.com/test-reports.

GLASS SPECIFICATIONS:
For use with 9/16" (13.52 mm) Laminated Tempered Glass (6 mm x 1.52 mm x 6 mm)
Thickness Range: 0.497" (12.62 mm) to 0.549" (13.94 mm)

9BL56 SERIES LAMINATED SQUARE BASE SHOE

12" (305 MM) C.T.C. CAT. NO.	STOCK LENGTH*	HOLE SIZE	COUNTER BORE X DEPTH	WEIGHT
9BL56D**	120" (3.05 m)	9/16" (14 mm)	7/8" x 1/2" (22 x 13 mm)	60 pounds (27 kg)
9BL56F**	120" (3.05 m)	9/16" (14 mm)	7/8" x 1/2" (22 x 13 mm)	60 pounds (27 kg)
9BL56	120" (3.05 m)	- - -	Δ Extrusion Only (Without Holes)	60 pounds (27 kg)

** Our Best Sellers are pre-drilled at CRL's Manufacturing Facility. *Stock lengths have a tolerance of plus or minus 3/4" (19 mm). Minimum order: 1 each. All Base Shoe can be combined for quantity pricing. Must ship common carrier.

Δ **NOTE:** The 120" (3.05 m) Extrusion Only (without holes) cannot be used for the TAPER-LOC® Dry Glaze System unless the Base Shoe is fabricated to the above tested and approved hole and counter bore pattern. The TAPER-LOC® Dry Glaze System requires that the attachment holes be counter bored so that no part of the fastener protrudes above the base of the channel opening.

go to crlaurence.com to search for
base-shoe Search
162B
or enter the Catalog Number for complete product information

TOLL Phone: (800) 421-6144
FREE Fax: (800) 262-3299
From Anywhere in the U.S. or Canada

CRL US ALUMINUM

CRL GRS GLASS RAILING BASE SHOE

CRL L56S Series Laminated Square Base Shoe

- **For 9/16" (13.52 mm) Laminated Tempered Glass**
- Typically Used as the Base Channel for Glass Railing Systems or Windscreens
- Works With LTL96X1 TAPER-LOC® Standard Taper Sets
- Custom Cutting and Mitering Service Available
- Engineering Reports Available
- Not Recommended for Use With Wet Set Expanding Cement
- 6063 Alloy, T52 Temper

Safety Seal
Gasket Retention
Groove
(Patent Pending)

New Safety Seal for Safer
and Faster Installations
(see page 118B).

Undrilled
1-3/8" (35 mm)
4-3/4" (121 mm)
2-7/8" (73 mm)

Hole Pattern "D"
6" or 12" (152 or 305 mm) C.T.C.
2-7/8" (73 mm)
7/8" (22 mm)
1/2" (13 mm)
4-3/4" (121 mm)
7/8" (22 mm) Clearance
9/16" (14 mm)

Hole Pattern "F"
6" or 12" (152 or 305 mm) C.T.C.
1/4" (6 mm)
7/8" (22 mm)
9/16" (14 mm)
1/2" (13 mm)
2-1/16" (52 mm)
7/8" (22 mm) Clearance

ICC ES
ESR-3842

ONLINE ARCHITECTURAL RESOURCES

USE LAMINATED TEMPERED GLASS

TAPER-LOC X-1
DRY GLAZE RAILING SYSTEM

U.S. Patents 8,122,654 and 8,201,366.
Commonwealth of Australia
Patents 2008207524 and 2012202256

CRL L56S Series Laminated Square Base Shoe is used as the base channel for glass railing systems. It can be clad in four choices of architectural finishes (see pages 164B-165B). The most critical component in a railing system is the proper attachment of the Base Shoe to the substrate. CRL has engineered a variety of attachment methods, and has developed an acceptable combination of drilling patterns and fasteners. The five engineered methods of attachment can be found on pages 140B-141B. Associated fasteners are shown on pages 188B-189B.

Works With:

LTL96X1 TAPER-LOC®
Standard Taper Sets
(see page 114B)

TAPER-LOC®
DRY GLAZE SYSTEM

For Use with LTL96X1 TAPER-LOC®
Taper Sets for 9/16" (13.52 mm)
Laminated Tempered Glass

For Test Results and
Drilling Recommendations,
Visit **crlaurence.com/test-reports**.

GLASS SPECIFICATIONS:
For use with 9/16" (13.52 mm) Laminated Tempered Glass (6 mm x 1.52 mm x 6 mm)
Thickness Range: 0.497" (12.62 mm) to 0.549" (13.94 mm

L56S SERIES LAMINATED SQUARE BASE SHOE

12" (305 MM) C.T.C. CAT. NO.	6" (152 MM) C.T.C. CAT. NO.	STOCK LENGTH*	HOLE SIZE	COUNTER BORE X DEPTH	WEIGHT
L56S10D**	L56S10D6**	120" (3.05 m)	9/16" (14 mm)	7/8" x 1/2" (22 x 13 mm)	86 pounds (39 kg)
L56S10F**	L56S10F6**	120" (3.05 m)	9/16" (14 mm)	7/8" x 1/2" (22 x 13 mm)	86 pounds (39 kg)
L56S10	- - -	120" (3.05 m)	- - -	Δ Extrusion Only (Without Holes)	86 pounds (39 kg)

**Our Best Sellers are pre-drilled at CRL's Manufacturing Facility. *Stock lengths have a tolerance of plus or minus 3/4" (19 mm). Minimum order: 1 each. All Base Shoe can be combined for quantity pricing. Must ship common carrier.

Δ **NOTE:** The 120" (3.05 m) Extrusion Only (without holes) cannot be used for the TAPER-LOC® Dry Glaze System unless the Base Shoe is fabricated to the above tested and approved hole and counter bore pattern. The TAPER-LOC® Dry Glaze System requires that the attachment holes be counter bored so that no part of the fastener protrudes above the base of the channel opening.

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163B

TOLL Phone: (800) 421-6144
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CRL US ALUMINUM

CRL Cladding for 9BL56 and L56S Series Laminated Square Base Shoe

Straight Cladding for 9BL56 and L56S Series Laminated Square Base Shoe

CRL Cladding for 9BL56 and L56S Series Base Shoe is available in five architectural finishes. It can be secured to the Base Shoe using CRL AT234 Cladding Tape and 95CBL Silicone Sealant (see page 177B). **NOTE:** Sold by individual pieces. Base Shoe requires two pieces for coverage on both sides.

- Available in Five Architectural Finishes
- Adhere With Cladding Tape and Silicone Sealant
- Custom Cutting and Mitering Service Available

CAT. NO.	GRADE	GA./THK.	LENGTH	FINISH
LBSCBS10	316	20/.035"	118-1/8" (3 m)	Brushed Stainless
LBSCPS10	316	20/.035"	118-1/8" (3 m)	Polished Stainless
LBSC236BS	316	20/.035"	236" (6 m)*	Brushed Stainless
LBSC236PS	316	20/.035"	236" (6 m)*	Polished Stainless
LBSCPB10	C260	.045"	118-1/8" (3 m)	Polished Brass
LBSCSB10	C260	.045"	118-1/8" (3 m)	Satin Brass
LBSCSA10	5052	.050"	118-1/8" (3 m)	Satin Anodized

Minimum order: 1 each. *Minimum order: 1 pack (6 pieces per pack). All finishes can be combined for quantity pricing. Custom lengths are available on special order. Must ship common carrier.

Fascia Cladding for 9BL56 and L56S Series Laminated Square Base Shoe

CRL Fascia Cladding is offered for applications where the Base Shoe is installed to the side of the substrate. We offer Outside Fascia Cladding that will conceal the three exposed outside edges of the Base Shoe. We also offer the Inside Fascia Cladding Strip that will cover the top inside edge of the Base Shoe. Secure with CRL AT234 Cladding Tape and 95CBL Silicone Sealant (see page 177B).

- Available in Four Architectural Finishes
- Adhere With Cladding Tape and Silicone Sealant
- Custom Cutting and Mitering Services Available
- Outside and Inside Fascia Cladding Are Sold Separately

CRL Inside Fascia Cladding Strip 3/4" (19 mm) Wide

CRL Outside Fascia Cladding

OUTSIDE FASCIA CLADDING

CAT. NO.	GRADE	GA./THK.	LENGTH	FINISH
L56C0FBS	316	20/.035"	120" (3.05 m)	Brushed Stainless
L56C0FPS	316	20/.035"	120" (3.05 m)	Polished Stainless
L56C0FPB	C260	.045"	120" (3.05 m)	Polished Brass
L56C0FSB	C260	.045"	120" (3.05 m)	Satin Brass

Minimum order: 1 each. All finishes can be combined for quantity pricing. Must ship common carrier
Custom lengths up to 168" (4.26 m) are available on special order.

INSIDE FASCIA CLADDING STRIP

CAT. NO.	GRADE	GA./THK.	LENGTH	FINISH
L56C1FBS	316	20/.035"	120" (3.05 m)	Brushed Stainless
L56C1FPS	316	20/.035"	120" (3.05 m)	Polished Stainless
L56C1FPB	C260	.045"	120" (3.05 m)	Polished Brass
L56C1FSB	C260	.045"	120" (3.05 m)	Satin Brass

Minimum order: 1 each. All finishes can be combined for quantity pricing. Must ship common carrier
Custom lengths up to 168" (4.26 m) are available on special order.

Application Suggestions for CRL Cladding

There are various methods of attaching the Cladding to the Base Shoe. All three types shown below will work, but a combination of AT234 Cladding Tape and 95CBL Neutral Cure Silicone (Type C) offers the best of two worlds; the instant bond of the tape along with the speed of application of the silicone and its flexible, durable adhesion. See page 177B for additional information.

Type A: Apply three rows of Tape to the inside face and two rows to the inside bottom leg of the Cladding. Carefully align the Cladding to the Base Shoe and press in place.

Type B: Apply Silicone to the inside face and bottom leg of the Cladding. Carefully align Cladding to the Base Shoe and press in place. Use clamps to hold the Cladding in place until the Silicone cures.

Type C: Apply two rows of Tape to the inside face of the Cladding, one toward the top and one toward the bottom. Apply the Silicone between the rows of Tape. Apply one row of Tape to the bottom leg, closest to the outer edge. Apply Silicone between Tape and corner bend in Cladding. Carefully align the Cladding to the Base Shoe and press in place.

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164B

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CRL Cladding for 9BL56 and L56S Series Laminated Square Base Shoe

CAT. NO. SCCS5
Cladding Color Chip Chain
Minimum order is one each.

12" Mitered Corner Cladding for 9BL56 and L56S Series Laminated Square Base Shoe

CRL Mitered Corner Cladding is available in four architectural finishes. Each leg is 12" (305 mm) in length, and can be secured to the Base Shoe using CRL AT234 Cladding Tape and 95CBL Silicone Sealant (see page 177B). Four pieces per set.

- 90 Degree and 135 Degree Corner Sets
- Available in Four Architectural Finishes
- Adhere With Cladding Tape and Silicone Sealant

90 DEGREE CORNER CAT. NO.	135 DEGREE CORNER CAT. NO.	GRADE	GA./THK.	FINISH
L5690BS	L56135BS	316	20/.035"	Brushed Stainless
L5690PS	L56135PS	316	20/.035"	Polished Stainless
L5690PB	L56135PB	C260	.045"	Polished Brass
L5690SB	L56135SB	C260	.045"	Satin Brass

Minimum order: 1 set. All finishes can be combined for quantity pricing.

End Caps for 9BL56 and L56S Series Laminated Square Base Shoe

CRL End Caps are available in six architectural finishes. L56S End Caps are secured to the Base Shoe using CRL AT234 Cladding Tape and 95CBL Silicone Sealant (see page 177B). 9BL56 End Caps are secured by four screws (included). One per package.

ONLINE ARCHITECTURAL RESOURCES

For 9BL56 Series   For L56S Series

FOR 9BL56 CAT. NO.	FOR L56S CAT. NO.	GRADE	GA./THK.	FINISH
9BL56CBS	L56SECBS	316	20/.035"	Brushed Stainless
9BL56CPS	L56SECPS	316	20/.035"	Polished Stainless
9BL56CPB	L56SECPB	C260	.045"	Polished Brass
9BL56CSB	L56SECSB	C260	.045"	Satin Brass
9BL56CSA	L56SECSA	5052	.050"	Satin Anodized
9BL56CDU	L56SECDU	5052	.050"	Dark Bronze Anodized

Minimum order: 1 each. All finishes can be combined for quantity pricing.

12" Welded End Cladding for 9BL56 and L56S Series Laminated Square Base Shoe

CRL Welded End Cladding allows the user to match any of four architectural finishes offered in Cap Railing. It is 12" (305 mm) in length, and can be secured to the Base Shoe using 95CBL Silicone Sealant (see page 177B). One per package.
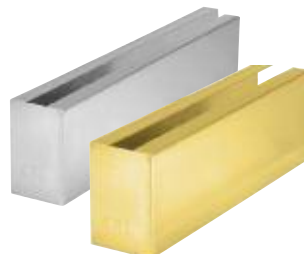
- Available in Four Architectural Finishes
- Adhere With Silicone Sealant

CAT. NO.	GRADE	GA./THK.	FINISH
L56WECBS	316	20/.035"	Brushed Stainless
L56WECPS	316	20/.035"	Polished Stainless
L56WECPB	C260	.045"	Polished Brass
L56WECSB	C260	.045"	Satin Brass

Minimum order: 1 each. All finishes can be combined for quantity pricing.

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165B

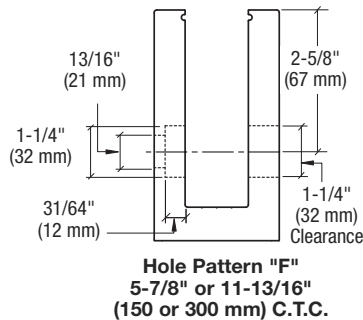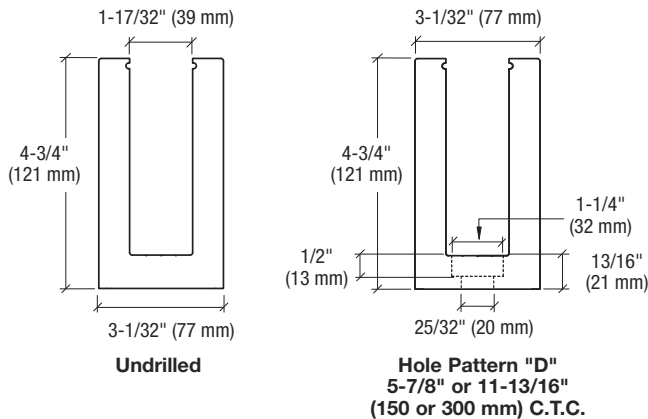**TOLL** Phone: (800) 421-6144
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From Anywhere in the U.S. or Canada

CRL US ALUMINUM

CRL 9BL68 Series Laminated Square Base Shoe

NEW!

- For 11/16" (17.52 mm) Laminated Tempered Glass
- Environmentally Friendly (Green Product)
- 30% Lighter than CRL's Traditional L68S Series Base Shoe
- Typically Used as the Base Channel for Glass Railing Systems or Windscreens
- Works With LTL96X1 and XL17LT TAPER-LOC® Taper Sets
- Custom Cutting and Mitering Service Available
- Engineering Reports Available
- Not Recommended for Use With Wet Set Expanding Cement
- 6063 Alloy, T52 Temper

Safety Seal Gasket Retention Groove (Patent Pending)

Engineered extrusion reduces the weight of the Base Shoe by 30%. This reduces the cost of the Base Shoe, and helps you save on shipping costs.

Undrilled
1-17/32" (39 mm)
4-3/4" (121 mm)
3-1/32" (77 mm)

Hole Pattern "D" 11-13/16" (300 mm) C.T.C.
3-1/32" (77 mm)
4-3/4" (121 mm)
1-1/4" (32 mm)
1/2" (13 mm)
13/16" (21 mm)
25/32" (20 mm)

Hole Pattern "F" 11-13/16" (300 mm) C.T.C.
Top of Shoe
13/16" (21 mm)
2-5/8" (67 mm)
1-1/4" (32 mm)
℄ of Hole
1-1/4" (32 mm)
31/64" (12 mm)

Integrated Screw Race for End Caps

CRL GREEN PRODUCT

New Safety Seal for Safer and Faster Installations (see page 118B).

ICC ES ESR-3842

ONLINE ARCHITECTURAL RESOURCES

ARCHITECTURAL RECORD
BEST IN CATEGORY

USE LAMINATED TEMPERED GLASS

TAPER-LOC X1 DRY GLAZE RAILING SYSTEM

U.S. Patents 8,122,654 and 8,201,366. Commonwealth of Australia Patents 2008207524 and 2012202256

CRL 9BL68 Series Laminated Square Base Shoe is used as the base channel for glass railing systems. It can be clad in four choices of architectural finishes (see pages 168B-169B). The most critical component in a railing system is the proper attachment of the Base Shoe to the substrate. CRL has engineered a variety of attachment methods, and has developed an acceptable combination of drilling patterns and fasteners. The five engineered methods of attachment can be found on pages 140B-141B. Associated fasteners are shown on pages 188B-189B.

Works With:

LTL96X1 TAPER-LOC® Standard Taper Sets (see page 114B)

XL17LT TAPER-LOC® Adjustable Taper Sets (see pages 116B-117B)

TAPER-LOC® DRY GLAZE SYSTEM

For Use with LTL96X1 and XL17LT TAPER-LOC® Taper Sets for 11/16" (17.52 mm) Laminated Tempered Glass

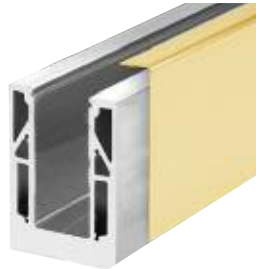For Test Results and Drilling Recommendations, Visit **crlaurence.com/test-reports**.

GLASS SPECIFICATIONS:
For use with 11/16" (17.52 mm) Laminated Tempered Glass (8 mm x 1.52 mm x 8 mm) Thickness Range: 0.666" (16.92 mm) to 0.713" (18.12 mm)

9BL68 SERIES LAMINATED SQUARE BASE SHOE

11-13/16" (300 MM) C.T.C.				
CAT. NO.	STOCK LENGTH*	HOLE SIZE	COUNTER BORE X DEPTH	WEIGHT
9BL68D**	118-1/8" (3 m)	13/16" (21 mm)	1-1/4" x 1/2" (32 x 13 mm)	60 pounds (27 kg)
9BL68F**	118-1/8" (3 m)	13/16" (21 mm)	1-1/4" x 1/2" (32 x 13 mm)	60 pounds (27 kg)
9BL68	118-1/8" (3 m)	---	Δ Extrusion Only (Without Holes)	60 pounds (27 kg)

**Our Best Sellers are pre-drilled at CRL's Manufacturing Facility. *Stock lengths have a tolerance of plus or minus 3/4" (19 mm). Minimum order: 1 each. All Base Shoe can be combined for quantity pricing. Must ship common carrier.

Δ **NOTE:** The 118-1/8" (3 m) Extrusion Only (without holes) cannot be used for the TAPER-LOC® Dry Glaze System unless the Base Shoe is fabricated to the above tested and approved hole and counter bore pattern. The TAPER-LOC® Dry Glaze System requires that the attachment holes be counter bored so that no part of the fastener protrudes above the base of the channel opening.

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CRL US ALUMINUM

CRL L68S Series Laminated Square Base Shoe

- For 11/16" (17.52 mm) Laminated Tempered Glass
- Typically Used as the Base Channel for Glass Railing Systems or Windscreens
- Works With LTL96X1 and XL17LT TAPER-LOC® Taper Sets
- Custom Cutting and Mitering Service Available
- Engineering Reports Available
- Not Recommended for Use With Wet Set Expanding Cement
- 6063 Alloy, T52 Temper

Safety Seal Gasket Retention Groove (Patent Pending)

New Safety Seal for Safer and Faster Installations (see page 118B).

Undrilled
1-17/32" (39 mm)
4-3/4" (121 mm)
3-1/32" (77 mm)

**Hole Pattern "D"
5-7/8" or 11-13/16"
(150 or 300 mm) C.T.C.**
3-1/32" (77 mm)
4-3/4" (121 mm)
1-1/4" (32 mm)
1/2" (13 mm)
13/16" (21 mm)
25/32" (20 mm)

**Hole Pattern "F"
5-7/8" or 11-13/16"
(150 or 300 mm) C.T.C.**
13/16" (21 mm)
2-5/8" (67 mm)
1-1/4" (32 mm)
31/64" (12 mm)
1-1/4" (32 mm) Clearance

ICC ES
ESR-3842

ONLINE ARCHITECTURAL RESOURCES

USE LAMINATED TEMPERED GLASS

TAPER-LOC X1
DRY GLAZE RAILING SYSTEM

U.S. Patents 8,122,654 and 8,201,366.
Commonwealth of Australia
Patents 2008207524 and 2012202256

CRL L68S Series Laminated Square Base Shoe is used as the base channel for glass railing systems. It can be clad in four choices of architectural finishes (see pages 168B-169B). The most critical component in a railing system is the proper attachment of the Base Shoe to the substrate. CRL has engineered a variety of attachment methods, and has developed an acceptable combination of drilling patterns and fasteners. The five engineered methods of attachment can be found on pages 140B-141B. Associated fasteners are shown on pages 188B-189B.

Works With:

LTL96X1 TAPER-LOC®
Standard Taper Sets
(see page 114B)

XL17LT TAPER-LOC®
Adjustable Taper Sets
(see pages 116B-117B)

**TAPER-LOC®
DRY GLAZE SYSTEM**

For Use with LTL96X1 and XL17LT TAPER-LOC® Taper Sets for 11/16" (17.52 mm) Laminated Tempered Glass

For Test Results and Drilling Recommendations, Visit **crlaurence.com/test-reports**.

GLASS SPECIFICATIONS:
For use with 11/16" (17.52 mm) Laminated Tempered Glass (8 mm x 1.52 mm x 8 mm)
Thickness Range: 0.666" (16.92 mm) to 0.713" (18.12 mm)

L68S SERIES LAMINATED SQUARE BASE SHOE

11-13/16" (300 MM) C.T.C. CAT. NO.	5-7/8" (150 MM) C.T.C. CAT. NO.	STOCK LENGTH*	HOLE SIZE	COUNTER BORE X DEPTH	WEIGHT
L68S10D**	L68S10D6**	118-1/8" (3 m)	13/16" (21 mm)	1-1/4" x 1/2" (32 x 13 mm)	86 pounds (39 kg)
L68S10F**	---	118-1/8" (3 m)	13/16" (21 mm)	1-1/4" x 1/2" (32 x 13 mm)	86 pounds (39 kg)
L68S10	---	118-1/8" (3 m)	---	△ Extrusion Only (Without Holes)	86 pounds (39 kg)

**Our Best Sellers are pre-drilled at CRL's Manufacturing Facility. *Stock lengths have a tolerance of plus or minus 3/4" (19 mm). Minimum order: 1 each. All Base Shoe can be combined for quantity pricing. Must ship common carrier.

△ **NOTE:** The 118-1/8" (3 m) Extrusion Only (without holes) cannot be used for the TAPER-LOC® Dry Glaze System unless the Base Shoe is fabricated to the above tested and approved hole and counter bore pattern. The TAPER-LOC® Dry Glaze System requires that the attachment holes be counter bored so that no part of the fastener protrudes above the base of the channel opening.

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CRL US ALUMINUM

CRL Cladding for 9BL68 and L68S Series Laminated Square Base Shoe

Straight Cladding for 9BL68 and L68S Series Laminated Square Base Shoe

CRL Cladding for 9BL68 and L68S Series Base Shoe is available in five architectural finishes. It can be secured to the Base Shoe using CRL AT234 Cladding Tape and 95CBL Silicone Sealant (see page 177B). **NOTE:** Sold by individual pieces. Base Shoe requires two pieces for coverage on both sides.

- Available in Five Architectural Finishes
- Adhere With Cladding Tape and Silicone Sealant
- Custom Cutting and Mitering Service Available

CAT. NO.	GRADE	GA./THK.	LENGTH	FINISH
LBSCBS10	316	20/.035"	118-1/8" (3 m)	Brushed Stainless
LBSCPS10	316	20/.035"	118-1/8" (3 m)	Polished Stainless
LBSC236BS	316	20/.035"	236" (6 m)*	Brushed Stainless
LBSC236PS	316	20/.035"	236" (6 m)*	Polished Stainless
LBSCPB10	C260	.045"	118-1/8" (3 m)	Polished Brass
LBSCSB10	C260	.045"	118-1/8" (3 m)	Satin Brass
LBSCSA10	5052	.050"	118-1/8" (3 m)	Satin Anodized

Minimum order: 1 each. *Minimum order: 1 pack (6 pieces per pack). All finishes can be combined for quantity pricing. Custom lengths are available on special order. Must ship common carrier.

Fascia Cladding for 9BL68 and L68S Series Laminated Square Base Shoe

CRL Fascia Cladding is offered for applications where the Base Shoe is installed to the side of the substrate. We offer Outside Fascia Cladding that will conceal the three exposed outside edges of the Base Shoe. We also offer the Inside Fascia Cladding Strip that will cover the top inside edge of the Base Shoe. Secure with CRL AT234 Cladding Tape and 95CBL Silicone Sealant (see page 177B).

- Available in Four Architectural Finishes
- Adhere With Cladding Tape and Silicone Sealant
- Custom Cutting and Mitering Services Available
- Outside and Inside Fascia Cladding Are Sold Separately

CRL Inside Fascia Cladding Strip 3/4" (19 mm) Wide

CRL Outside Fascia Cladding

OUTSIDE FASCIA CLADDING

CAT. NO.	GRADE	GA./THK.	LENGTH	FINISH
L68C0FBS	316	20/.035"	118-1/8" (3 m)	Brushed Stainless
L68C0FPS	316	20/.035"	118-1/8" (3 m)	Polished Stainless
L68C0FPB	C260	.045"	118-1/8" (3 m)	Polished Brass
L68C0FSB	C260	.045"	118-1/8" (3 m)	Satin Brass

Minimum order: 1 each. All finishes can be combined for quantity pricing. Must ship common carrier
Custom lengths up to 168" (4.26 m) are available on special order.

INSIDE FASCIA CLADDING STRIP

CAT. NO.	GRADE	GA./THK.	LENGTH	FINISH
L56C1FBS	316	20/.035"	120" (3.05 m)	Brushed Stainless
L56C1FPS	316	20/.035"	120" (3.05 m)	Polished Stainless
L56C1FPB	C260	.045"	120" (3.05 m)	Polished Brass
L56C1FSB	C260	.045"	120" (3.05 m)	Satin Brass

Minimum order: 1 each. All finishes can be combined for quantity pricing. Must ship common carrier
Custom lengths up to 168" (4.26 m) are available on special order.

Application Suggestions for CRL Cladding

There are various methods of attaching the Cladding to the Base Shoe. All three types shown below will work, but a combination of CRL AT234 Cladding Tape and 95CBL Neutral Cure Silicone (Type C) offers the best of two worlds; the instant bond of the tape along with the speed of application of the silicone and its flexible, durable adhesion. See page 177B for additional information.

Type A: Apply three rows of Tape to the inside face and two rows to the inside bottom leg of the Cladding. Carefully align the Cladding to the Base Shoe and press in place.

Type B: Apply Silicone to the inside face and bottom leg of the Cladding. Carefully align Cladding to the Base Shoe and press in place. Use clamps to hold the Cladding in place until the Silicone cures.

Type C: Apply two rows of Tape to the inside face of the Cladding, one toward the top and one toward the bottom. Apply the Silicone between the rows of Tape. Apply one row of Tape to the bottom leg, closest to the outer edge. Apply Silicone between Tape and corner bend in Cladding. Carefully align the Cladding to the Base Shoe and press in place.

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FREE Fax: (800) 262-3299
From Anywhere in the U.S. or Canada

CRL Cladding for 9BL68 and L68S Series Laminated Square Base Shoe

CAT. NO. SCCS5
Cladding Color Chip Chain
Minimum order is one each.

12" Mitered Corner Cladding for 9BL68 and L68S Series Laminated Square Base Shoe

CRL Mitered Corner Cladding for L68S Series Base Shoe is available in four architectural finishes. Each leg is 12" (305 mm) in length, and can be secured to the Base Shoe using CRL AT234 Cladding Tape and 95CBL Silicone Sealant (see page 177B). Four pieces per set.
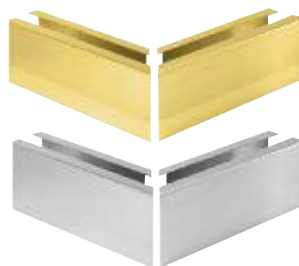
- 90 Degree and 135 Degree Corner Sets
- Available in Four Architectural Finishes
- Adhere With Cladding Tape and Silicone Sealant

90 DEGREE CORNER CAT. NO.	135 DEGREE CORNER CAT. NO.	GRADE	GA./THK.	FINISH
L6890BS	L68135BS	316	20/.035"	Brushed Stainless
L6890PS	L68135PS	316	20/.035"	Polished Stainless
L6890PB	L68135PB	C260	.045"	Polished Brass
L6890SB	L68135SB	C260	.045"	Satin Brass

Minimum order: 1 set. All finishes can be combined for quantity pricing.

End Caps for 9BL68 and L68S Series Laminated Square Base Shoe

CRL End Caps are available in six architectural finishes. L68S End Caps are secured to the Base Shoe using CRL AT234 Cladding Tape and 95CBL Silicone Sealant (see page 177B). 9BL68 End Caps are secured by four screws (included). One per package.

For 9BL68 Series   For L68S Series

ONLINE ARCHITECTURAL RESOURCES

FOR 9BL68 CAT. NO.	FOR L68S CAT. NO.	GRADE	GA./THK.	FINISH
9BL68CBS	L68SECBS	316	20/.035"	Brushed Stainless
9BL68CPS	L68SECPS	316	20/.035"	Polished Stainless
9BL68CPB	L68SECPB	C260	.045"	Polished Brass
9BL68CSB	L68SECSB	C260	.045"	Satin Brass
9BL68CSA	L68SECSA	5052	.050"	Satin Anodized
9BL68CDU	L68SECDU	5052	.050"	Dark Bronze Anodized

Minimum order: 1 each. All finishes can be combined for quantity pricing.

12" Welded End Cladding for 9BL68 and L68S Series Laminated Square Base Shoe

CRL Welded End Cladding allows the user to match any of four architectural finishes offered in Cap Railing. It is 12" (305 mm) in length, and can be secured to the Base Shoe using 95CBL Silicone Sealant (see page 177B). One per package.
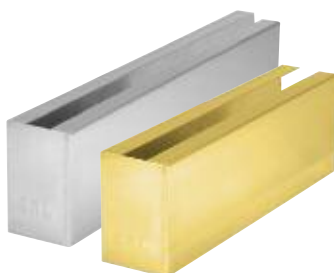
- Available in Four Architectural Finishes
- Adhere With Silicone Sealant

CAT. NO.	GRADE	GA./THK.	FINISH
L68WECBS	316	20/.035"	Brushed Stainless
L68WECPS	316	20/.035"	Polished Stainless
L68WECPB	C260	.045"	Polished Brass
L68WECSB	C260	.045"	Satin Brass

Minimum order: 1 each. All finishes can be combined for quantity pricing.

go to crlaurence.com to search for
base-shoe   Search
or enter the Catalog Number for complete product information

169B

TOLL Phone: (800) 421-6144
FREE Fax: (800) 262-3299
From Anywhere in the U.S. or Canada

CRL US ALUMINUM

CRL 9BL21 Series Laminated Square Base Shoe

NEW!

CRL GREEN PRODUCT

- For 27/32" (21.52 mm) Laminated Tempered Glass
- Environmentally Friendly (Green Product)
- 30% Lighter than CRL's Traditional L21S Series Base Shoe
- Works With LTL10X1 and XL21LT TAPER-LOC® Taper Sets
- Custom Cutting and Mitering Service Available
- Typically Used as the Base Channel for Laminated Glass Railing Systems
- Drilled and Counter Bored, or We Will Custom Drill to Your Specifications
- Not Recommended for Use With Wet Set Expanding Cement
- 6063 Alloy, T52 Temper

Gasket Retention Groove Secures the New Safety Seal

Engineered extrusion reduces the weight of the Base Shoe by 30%. This reduces the cost of the Base Shoe, and helps you save on shipping costs.

New Safety Seal for Safer and Faster Installations (see page 118B).

Integrated Screw Race for End Caps

ICC ES
ESR-3842

1-11/16" (43 mm)
4-3/4" (121 mm)
3-3/16" (81 mm)
Undrilled

3-3/16" (81 mm)
4-3/4" (121 mm)
1-1/4" (32 mm)
1/2" (13 mm)
13/16" (21 mm)
13/16" (21 mm)
Hole Pattern "D"
11-13/16" (300 mm) C.T.C.

1/4" (6 mm)
13/16" (21 mm)
1/2" (13 mm)
2-5/8" (67 mm)
1-1/4" (32 mm) Clearance
Hole Pattern "F"
11-13/16" (300 mm) C.T.C.

ARCHITECTURAL RECORD
BEST IN CATEGORY

USE LAMINATED TEMPERED GLASS

ONLINE ARCHITECTURAL RESOURCES

TAPER-LOC X-1
DRY GLAZE RAILING SYSTEM

U.S. Patents 8,122,654 and 8,201,366.
Commonwealth of Australia
Patents 2008207524 and 2012202256

CRL 9BL21 Series Laminated Square Base Shoe is used as the base channel for glass railing systems. It can be clad in four choices of architectural finishes (see pages 172B-173B). The most critical component in a railing system is the proper attachment of the Base Shoe to the substrate. CRL has engineered a variety of attachment methods, and has developed an acceptable combination of drilling patterns and fasteners. The five engineered methods of attachment can be found on pages 140B-141B. Associated fasteners are shown on pages 188B-189B.

Works With:

LTL10X1 TAPER-LOC®
Standard Taper Sets
(see page 114B)

XL21LT TAPER-LOC®
Adjustable Taper Sets
(see pages 116B-117B)

**TAPER-LOC®
DRY GLAZE SYSTEM**

For Use with LTL10X1 and XL21LT TAPER-LOC® Taper Sets for 27/32" (21.52 mm) Laminated Tempered Glass

For Test Results and Drilling Recommendations, Visit **crlaurence.com/test-reports**.

GLASS SPECIFICATIONS:
For use with 27/32" (21.52 mm) Laminated Tempered Glass (10 mm x 1.52 mm x 10 mm)
Thickness Range: 0.803" to 0.903" (20.40 to 22.94 mm)
Will work with ASTM 7/8" Monolithic Tempered Glass
Will not accommodate the full ASTM thickness range for 27/32" (21.52 mm) glass.

9BL21 SERIES LAMINATED SQUARE BASE SHOE

11-13/16" (300 MM) C.T.C. CAT. NO.	STOCK LENGTH*	HOLE SIZE	COUNTER BORE X DEPTH	WEIGHT
9BL21D**	118-1/8" (3 m)	13/16" (21 mm)	1-1/4" x 1/2" (32 x 13 mm)	60 pounds (27 kg)
9BL21F**	118-1/8" (3 m)	13/16" (21 mm)	1-1/4" x 1/2" (32 x 13 mm)	60 pounds (27 kg)
9BL21	118-1/8" (3 m)	---	Δ Extrusion Only (Without Holes)	60 pounds (27 kg)

**Our Best Sellers are pre-drilled at CRL's Manufacturing Facility. *Stock lengths have a tolerance of plus or minus 3/4" (19 mm). Minimum order: 1 each. All Base Shoe can be combined for quantity pricing. Must ship common carrier.

Δ **NOTE:** The 118-1/8" (3 m) Extrusion Only (without holes) cannot be used for the TAPER-LOC® Dry Glaze System unless the Base Shoe is fabricated to the above tested and approved hole and counter bore pattern. The TAPER-LOC® Dry Glaze System requires that the attachment holes be counter bored so that no part of the fastener protrudes above the base of the channel opening.

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170B

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or enter the Catalog Number for complete product information

CRL US ALUMINUM

CRL L21S Series Laminated Square Base Shoe

- For 27/32" (21.52 mm) Laminated Tempered Glass
- Typically Used as the Base Channel for Laminated Glass Railing Systems
- Works With LTL10X1 and XL21LT TAPER-LOC® Taper Sets
- Drilled and Counter Bored, or We Will Custom Drill to Your Specifications
- Custom Cutting and Mitering Service Available
- Not Recommended for Use With Wet Set Expanding Cement
- 6063 Alloy, T52 Temper

Safety Seal
Gasket Retention
Groove
(Patent Pending)

1-11/16" (43 mm)
4-3/4" (121 mm)
3-3/16" (81 mm)
Undrilled

3-3/16" (81 mm)
4-3/4" (121 mm)
1-1/4" (32 mm)
1/2" (13 mm)
13/16" (21 mm)
25/32" (20 mm)
Hole Pattern "D"
5-7/8" or 11-13/16"
(150 or 300 mm) C.T.C.

New Safety Seal for Safer
and Faster Installations
(see page 118B).

ICC ES
ESR-3842

1/4" (6 mm)
2-5/8" (67 mm)
13/16" (21 mm)
1-1/4" (32 mm) Clearance
1/2" (13 mm)
Hole Pattern "F"
5-7/8" or 11-13/16"
(150 or 300 mm) C.T.C.

ONLINE ARCHITECTURAL RESOURCES

USE LAMINATED TEMPERED GLASS

TAPER-LOC X1
DRY GLAZE RAILING SYSTEM

U.S. Patents 8,122,654 and 8,201,366.
Commonwealth of Australia
Patents 2008207524 and 2012202256

CRL L21S Series Laminated Square Base Shoe is used as the base channel for glass railing systems. It can be clad in four choices of architectural finishes (see pages 172B-173B). The most critical component in a railing system is the proper attachment of the Base Shoe to the substrate. CRL has engineered a variety of attachment methods, and has developed an acceptable combination of drilling patterns and fasteners. The five engineered methods of attachment can be found on pages 140B-141B. Associated fasteners are shown on pages 188B-189B.

Works With:

LTL10X1 TAPER-LOC®
Standard Taper Sets
(see page 114B)

XL21LT TAPER-LOC®
Adjustable Taper Sets
(see pages 116B-117B)

TAPER-LOC®
DRY GLAZE SYSTEM

For Use with LTL10X1 and
XL21LT TAPER-LOC® Taper
Sets for 27/32" (21.52 mm)
Laminated Tempered Glass

GLASS SPECIFICATIONS:
For use with 27/32" (21.52 mm) Laminated Tempered Glass (10 mm x 1.52 mm x 10 mm)
Thickness Range: 0.803" to 0.903" (20.40 to 22.94 mm)
Will work with ASTM 7/8" Monolithic Tempered Glass
Will not accommodate the full ASTM thickness range for 27/32" (21.52 mm) glass.

For Test Results and
Drilling Recommendations,
Visit crlaurence.com/test-reports.

LS21S SERIES LAMINATED SQUARE BASE SHOE

11-13/16" (300 MM) C.T.C. CAT. NO.	5-7/8" (150 MM) C.T.C. CAT. NO.	STOCK LENGTH*	HOLE SIZE	COUNTER BORE X DEPTH	WEIGHT
L21S10D**	L21S10D6**	118-1/8" (3 m)	13/16" (21 mm)	1-1/4" x 1/2" (32 x 13 mm)	86 pounds (39 kg)
L21S10F**	L21S10F6**	118-1/8" (3 m)	13/16" (21 mm)	1-1/4" x 1/2" (32 x 13 mm)	86 pounds (39 kg)
L21S10	---	118-1/8" (3 m)	---	△ Extrusion Only (Without Holes)	86 pounds (39 kg)

**Our Best Sellers are pre-drilled at CRL's Manufacturing Facility. *Stock lengths have a tolerance of plus or minus 3/4" (19 mm). Minimum order: 1 each. All Base Shoe can be combined for quantity pricing. Must ship common carrier.

△ **NOTE:** The 118-1/8" (3 m) Extrusion Only (without holes) cannot be used for the TAPER-LOC® Dry Glaze System unless the Base Shoe is fabricated to the above tested and approved hole and counter bore pattern. The TAPER-LOC® Dry Glaze System requires that the attachment holes be counter bored so that no part of the fastener protrudes above the base of the channel opening.

go to crlaurence.com to search for

base-shoe   Search

171B

or enter the Catalog Number for complete product information

TOLL Phone: (800) 421-6144
FREE Fax: (800) 262-3299
From Anywhere in the U.S. or Canada

CRL US ALUMINUM

CRL Cladding for 9BL21 and L21S Series Laminated Square Base Shoe

Straight Cladding for 9BL21 and L21S Series Laminated Square Base Shoe

CRL Cladding for 9BL21 and L21S Series Base Shoe is available in six architectural finishes. It can be secured to the Base Shoe using CRL AT234 Cladding Tape and 95CBL Silicone Sealant (see page 177B). **NOTE:** Sold by individual pieces. Base Shoe requires two pieces for coverage on both sides.

- Available in Six Architectural Finishes
- Adhere With Cladding Tape and Silicone Sealant
- Custom Cutting and Mitering Service Available

CAT. NO.	GRADE	GA./THK.	LENGTH	FINISH
LBSCBS10	316	20/.035"	118-1/8" (3 m)	Brushed Stainless
LBSCPS10	316	20/.035"	118-1/8" (3 m)	Polished Stainless
LBSC236BS	316	20/.035"	236" (6 m)*	Brushed Stainless
LBSC236PS	316	20/.035"	236" (6 m)*	Polished Stainless
LBSCPB10	C260	.045"	118-1/8" (3 m)	Polished Brass
LBSCSB10	C260	.045"	118-1/8" (3 m)	Satin Brass
LBSCSA10	5052	.050"	118-1/8" (3 m)	Satin Anodized
LBSCDU10	5052	.050"	118-1/8" (3 m)	Dark Bronze Anodized

Minimum order: 1 each. *Minimum order: 1 pack (6 pieces per pack). All finishes can be combined for quantity pricing. Custom lengths are available on special order. Must ship common carrier.

Fascia Cladding for 9BL21 and L21S Series Laminated Square Base Shoe

CRL Fascia Cladding is offered for applications where the Base Shoe is installed to the side of the substrate. We offer Outside Fascia Cladding that will conceal the three exposed outside edges of the Base Shoe. We also offer the Inside Fascia Cladding Strip that will cover the top inside edge of the Base Shoe. Secure with CRL AT234 Cladding Tape and 95CBL Silicone Sealant (see page 177B).

- Available in Four Architectural Finishes
- Adhere With Cladding Tape and Silicone Sealant
- Custom Cutting and Mitering Services Available
- Outside and Inside Fascia Cladding Are Sold Separately

CRL Inside Fascia Cladding Strip 3/4" (19 mm) Wide

CRL Outside Fascia Cladding

OUTSIDE FASCIA CLADDING

CAT. NO.	GRADE	GA./THK.	LENGTH	FINISH
L21C0FBS	316	20/.035"	118-1/8" (3 m)	Brushed Stainless
L21C0FPS	316	20/.035"	118-1/8" (3 m)	Polished Stainless
L21C0FPB	C260	.045"	118-1/8" (3 m)	Polished Brass
L21C0FSB	C260	.045"	118-1/8" (3 m)	Satin Brass

Minimum order: 1 each. All finishes can be combined for quantity pricing. Must ship common carrier. Custom lengths up to 168" (4.26 m) are available on special order.

INSIDE FASCIA CLADDING STRIP

CAT. NO.	GRADE	GA./THK.	LENGTH	FINISH
L56C1FBS	316	20/.035"	120" (3.05 m)	Brushed Stainless
L56C1FPS	316	20/.035"	120" (3.05 m)	Polished Stainless
L56C1FPB	C260	.045"	120" (3.05 m)	Polished Brass
L56C1FSB	C260	.045"	120" (3.05 m)	Satin Brass

Minimum order: 1 each. All finishes can be combined for quantity pricing. Must ship common carrier. Custom lengths up to 168" (4.26 m) are available on special order.

Application Suggestions for CRL Cladding

There are various methods of attaching the Cladding to the Base Shoe. All three types shown below will work, but a combination of CRL AT234 Cladding Tape and 95CBL Neutral Cure Silicone (Type C) offers the best of two worlds; the instant bond of the tape along with the speed of application of the silicone and its flexible, durable adhesion. See page 177B for additional information.

Type A: Apply three rows of Tape to the inside face and two rows to the inside bottom leg of the Cladding. Carefully align the Cladding to the Base Shoe and press in place.

Type B: Apply Silicone to the inside face and bottom leg of the Cladding. Carefully align Cladding to the Base Shoe and press in place. Use clamps to hold the Cladding in place until the Silicone cures.

Type C: Apply two rows of Tape to the inside face of the Cladding, one toward the top and one toward the bottom. Apply the Silicone between the rows of Tape. Apply one row of Tape to the bottom leg, closest to the outer edge. Apply Silicone between Tape and corner bend in Cladding. Carefully align the Cladding to the Base Shoe and press in place.

go to crlaurence.com to search for
base-shoe   Search   **172B**
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TOLL Phone: (800) 421-6144   **FREE** Fax: (800) 262-3299
From Anywhere in the U.S. or Canada

CRL Cladding for 9BL21 and L21S Series Laminated Square Base Shoe

CAT. NO. SCCS5
Cladding Color Chip Chain
Minimum order is one each.

12" Mitered Corner Cladding for 9BL21 and L21S Series Laminated Square Base Shoe

CRL Mitered Corner Cladding for 9BL21 and L21S Series Base Shoe is available in four architectural finishes. Each leg is 12" (305 mm) in length, and can be secured to the Base Shoe using CRL AT234 Cladding Tape and 95CBL Silicone Sealant (see page 177B). Four pieces per set.

- 90 Degree and 135 Degree Corner Sets
- Available in Four Architectural Finishes
- Adhere With Cladding Tape and Silicone Sealant

90 DEGREE CORNER CAT. NO.	135 DEGREE CORNER CAT. NO.	GRADE	GA./THK.	FINISH
L2190BS	L21135BS	316	20/.035"	Brushed Stainless
L2190PS	L21135PS	316	20/.035"	Polished Stainless
L2190PB	L21135PB	C260	.045"	Polished Brass
L2190SB	L21135SB	C260	.045"	Satin Brass

Minimum order: 1 set. All finishes can be combined for quantity pricing.

End Caps for 9BL21 and L21S Series Laminated Square Base Shoe

For 9BL21 Series   For L21S Series

CRL End Caps are available in six architectural finishes. L21S End Caps are secured to the Base Shoe using CRL AT234 Cladding Tape and 95CBL Silicone Sealant (see page 177B). 9BL21 End Caps are secured by four screws (included). One per package.

ONLINE ARCHITECTURAL *RESOURCES*

FOR 9BL21 CAT. NO.	FOR L21S CAT. NO.	GRADE	GA./THK.	FINISH
9BL21CBS	L21SECBS	316	20/.035"	Brushed Stainless
9BL21CPS	L21SECPS	316	20/.035"	Polished Stainless
9BL21CPB	L21SECPB	C260	.045"	Polished Brass
9BL21CSB	L21SECSB	C260	.045"	Satin Brass
9BL21CSA	L21SECSA	5052	.050"	Satin Anodized
9BL21CDU	L21SECDU	5052	.050"	Dark Bronze Anodized

Minimum order: 1 each. All finishes can be combined for quantity pricing.

12" Welded End Cladding for 9BL21 and L21S Series Laminated Square Base Shoe

CRL Welded End Cladding allows the user to match any of four architectural finishes offered in Cap Railing. It is 12" (305 mm) in length, and can be secured to the Base Shoe using 95CBL Silicone Sealant (see page 177B). One per package.
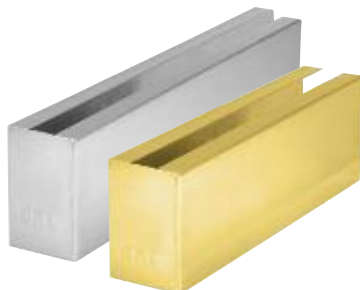
- Available in Four Architectural Finishes
- Adhere With Silicone Sealant

CAT. NO.	GRADE	GA./THK.	FINISH
L21WECBS	316	20/.035"	Brushed Stainless
L21WECPS	316	20/.035"	Polished Stainless
L21WECPB	C260	.045"	Polished Brass
L21WECSB	C260	.045"	Satin Brass

Minimum order: 1 each. All finishes can be combined for quantity pricing.

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base-shoe   Search
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173B

TOLL Phone: (800) 421-6144
FREE Fax: (800) 262-3299
From Anywhere in the U.S. or Canada

CRL GRS GLASS RAILING BASE SHOE

CRL L25S Series Heavy-Duty Laminated Square Base Shoe

- For 1-1/16" (25.52 mm) Laminated Tempered Glass
- Typically Used as the Base Channel for Glass Railing Systems or Windscreens
- Works With LTL10X TAPER-LOC® Standard Taper Sets
- Custom Cutting and Mitering Service Available
- Engineering Reports Available
- Not Recommended for Use With Wet Set Expanding Cement
- 6063 Alloy, T52 Temper

Safety Seal Gasket Retention Groove (Patent Pending)

New Safety Seal for Safer and Faster Installations (see page 118B).

Undrilled
1-7/8" (48 mm)
4-3/4" (121 mm)
3-3/8" (86 mm)

Hole Pattern "D"
5-7/8" or 11-13/16"
(150 or 300 mm) C.T.C.
3-3/8" (86 mm)
4-3/4" (121 mm)
1-1/4" (32 mm)
1/2" (13 mm)
13/16" (21 mm)
13/16 (21 mm)

Hole Pattern "F"
5-7/8" or 11-13/16"
(150 or 300 mm) C.T.C.
1/4" (6 mm)
2-5/8" (67 mm)
13/16" (21 mm)
1-1/4" (32 mm) Clearance
1/2" (13 mm)

ICC ES
ESR-3842

ONLINE ARCHITECTURAL RESOURCES

TAPER-LOC X
DRY GLAZE RAILING SYSTEM

U.S. Patents 8,122,654 and 8,201,366.
Commonwealth of Australia
Patents 2008207524 and 2012202256

USE LAMINATED TEMPERED GLASS

Works With:

LTL10X TAPER-LOC®
Standard Taper Sets
(see page 115B)

**TAPER-LOC®
DRY GLAZE SYSTEM**

For Use with LTL10X
TAPER-LOC® Taper Sets for
1-1/16" (25.52 mm) Laminated
Tempered Glass
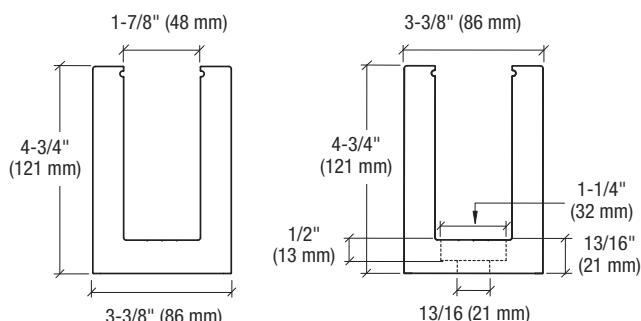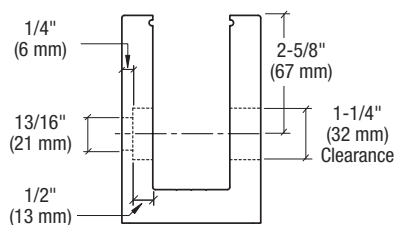
CRL L25S Series Laminated Square Base Shoe is used as the base channel for glass railing systems. It can be clad in four choices of architectural finishes (see pages 175B-176B). The most critical component in a railing system is the proper attachment of the Base Shoe to the substrate. CRL has engineered a variety of attachment methods, and has developed an acceptable combination of drilling patterns and fasteners. The five engineered methods of attachment can be found on pages 140B-141B. Associated fasteners are shown on pages 188B-189B.

GLASS SPECIFICATIONS:
For use with 1-1/16" (25.52 mm) Laminated Tempered Glass
1/2" x .060 x 1/2" (12 mm x 1.52 mm x 12 mm)
Thickness Range: 0.960" to 1.060" (24.40 to 26.92 mm)
Will work with ASTM 1" (25.4 mm) Monolithic Tempered Glass
Will not accommodate the full ASTM thickness range for 1-1/16" (27 mm) glass

For Test Results and
Drilling Recommendations,
Visit **crlaurence.com/test-reports**.

L25S SERIES HEAVY-DUTY LAMINATED SQUARE BASE SHOE

11-13/16" (300 MM) C.T.C. CAT. NO.	5-7/8" (150 MM) C.T.C. CAT. NO.	STOCK LENGTH*	HOLE SIZE	COUNTER BORE X DEPTH	WEIGHT
L25S10D**	L25S10D6**	118-1/8" (3 m)	13/16" (21 mm)	1-1/4" x 1/2" (32 x 13 mm)	86 pounds (39 kg)
L25S10F**	L25S10F6**	118-1/8" (3 m)	13/16" (21 mm)	1-1/4" x 1/2" (32 x 13 mm)	86 pounds (39 kg)
L25S10	---	118-1/8" (3 m)	---	△ Extrusion Only (Without Holes)	86 pounds (39 kg)

**Our Best Sellers are pre-drilled at CRL's Manufacturing Facility. *Stock lengths have a tolerance of plus or minus 3/4" (19 mm). Minimum order: 1 each. All Base Shoe can be combined for quantity pricing. Must ship common carrier.

△ **NOTE:** The 118-1/8" (3 m) Extrusion Only (without holes) cannot be used for the TAPER-LOC® Dry Glaze System unless the Base Shoe is fabricated to the above tested and approved hole and counter bore pattern. The TAPER-LOC® Dry Glaze System requires that the attachment holes be counter bored so that no part of the fastener protrudes above the base of the channel opening.

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base-shoe   Search
or enter the Catalog Number for complete product information

174B

TOLL Phone: (800) 421-6144
FREE Fax: (800) 262-3299
From Anywhere in the U.S. or Canada

CRL
US ALUMINUM

CRL Cladding for L25S Series Laminated Square Base Shoe

Straight Cladding for L25S Series Laminated Square Base Shoe

CRL Cladding for L25S Series Base Shoe is available in six architectural finishes. It can be secured to the Base Shoe using CRL AT234 Cladding Tape and 95CBL Silicone Sealant (see page 177B). **NOTE:** Sold by individual pieces. Base Shoe requires two pieces for coverage on both sides.

- Available in Six Architectural Finishes
- Adhere With Cladding Tape and Silicone Sealant
- Custom Cutting and Mitering Service Available

CAT. NO.	GRADE	GA./THK.	LENGTH	FINISH
LBSCBS10	316	20/.035"	118-1/8" (3 m)	Brushed Stainless
LBSCPS10	316	20/.035"	118-1/8" (3 m)	Polished Stainless
LBSC236BS	316	20/.035"	236" (6 m)*	Brushed Stainless
LBSC236PS	316	20/.035"	236" (6 m)*	Polished Stainless
LBSCPB10	C260	.045"	118-1/8" (3 m)	Polished Brass
LBSCSB10	C260	.045"	118-1/8" (3 m)	Satin Brass
LBSCSA10	5052	.050"	118-1/3" (3 m)	Satin Anodized
LBSCDU10	5052	.050"	118-1/3" (3 m)	Dark Bronze Anodized

Minimum order: 1 each. *Minimum order: 1 pack (6 pieces per pack). All finishes can be combined for quantity pricing. Custom lengths are available on special order. Must ship common carrier.

Fascia Cladding for L25S Series Laminated Square Base Shoe

CRL Fascia Cladding is offered for applications where the Base Shoe is installed to the side of the substrate. We offer Outside Fascia Cladding that will conceal the three exposed outside edges of the Base Shoe. We also offer the Inside Fascia Cladding Strip that will cover the top inside edge of the Base Shoe. Secure with CRL AT234 Cladding Tape and 95CBL Silicone Sealant (see page 177B).

- Available in Four Architectural Finishes
- Adhere With Cladding Tape and Silicone Sealant
- Custom Cutting and Mitering Services Available
- Outside and Inside Fascia Cladding Are Sold Separately

CRL Inside Fascia Cladding Strip 3/4" (19 mm) Wide

CRL Outside Fascia Cladding

OUTSIDE FASCIA CLADDING

CAT. NO.	GRADE	GA./THK.	LENGTH	FINISH
L25C0FBS	316	20/.035"	118-1/8" (3 m)	Brushed Stainless
L25C0FPS	316	20/.035"	118-1/8" (3 m)	Polished Stainless
L25C0FPB	C260	.045"	118-1/8" (3 m)	Polished Brass
L25C0FSB	C260	.045"	118-1/8" (3 m)	Satin Brass

Minimum order: 1 each. All finishes can be combined for quantity pricing. Must ship common carrier
Custom lengths up to 168" (4.26 m) are available on special order.

INSIDE FASCIA CLADDING STRIP

CAT. NO.	GRADE	GA./THK.	LENGTH	FINISH
L56C1FBS	316	20/.035"	120" (3.05 m)	Brushed Stainless
L56C1FPS	316	20/.035"	120" (3.05 m)	Polished Stainless
L56C1FPB	C260	.045"	120" (3.05 m)	Polished Brass
L56C1FSB	C260	.045"	120" (3.05 m)	Satin Brass

Minimum order: 1 each. All finishes can be combined for quantity pricing. Must ship common carrier
Custom lengths up to 168" (4.26 m) are available on special order.

Application Suggestions for CRL Cladding

There are various methods of attaching the Cladding to the Base Shoe. All three types shown below will work, but a combination of CRL AT234 Cladding Tape and 95CBL Neutral Cure Silicone (Type C) offers the best of two worlds; the instant bond of the tape along with the speed of application of the silicone and its flexible, durable adhesion. See page 177B for additional information.

Type A: Apply three rows of Tape to the inside face and two rows to the inside bottom leg of the Cladding. Carefully align the Cladding to the Base Shoe and press in place.

Type B: Apply Silicone to the inside face and bottom leg of the Cladding. Carefully align Cladding to the Base Shoe and press in place. Use clamps to hold the Cladding in place until the Silicone cures.

Type C: Apply two rows of Tape to the inside face of the Cladding, one toward the top and one toward the bottom. Apply the Silicone between the rows of Tape. Apply one row of Tape to the bottom leg, closest to the outer edge. Apply Silicone between Tape and corner bend in Cladding. Carefully align the Cladding to the Base Shoe and press in place.

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base-shoe | Search

or enter the Catalog Number for complete product information

175B

TOLL Phone: (800) 421-6144
FREE Fax: (800) 262-3299
From Anywhere in the U.S. or Canada

CRL Cladding for L25S Series Laminated Square Base Shoe

CAT. NO. SCCS5
Cladding Color Chip Chain
Minimum order is one each.

12" Mitered Corner Cladding for L25S Series Laminated Square Base Shoe

CRL Mitered Corner Cladding for L25S Series Base Shoe is available in four architectural finishes. Each leg is 12" (305 mm) in length, and can be secured to the Base Shoe using CRL AT234 Cladding Tape and 95CBL Silicone Sealant (see page 177B). Four pieces per set.

- 90 Degree and 135 Degree Corner Sets
- Available in Four Architectural Finishes
- Adhere With Cladding Tape and Silicone Sealant

90 DEGREE CORNER CAT. NO.	135 DEGREE CORNER CAT. NO.	GRADE	GA./THK.	FINISH
L2590BS	L25135BS	316	20/.035"	Brushed Stainless
L2590PS	L25135PS	316	20/.035"	Polished Stainless
L2590PB	L25135PB	C260	.045"	Polished Brass
L2590SB	L25135SB	C260	.045"	Satin Brass

Minimum order: 1 set. All finishes can be combined for quantity pricing.

End Caps for L25S Series Laminated Square Base Shoe

CRL End Caps are available in six architectural finishes. They can be secured to the Base Shoe using CRL AT234 Cladding Tape and 95CBL Silicone Sealant (see page 177B). One per package.

- Available in Six Architectural Finishes
- Adhere With Cladding Tape and Silicone Sealant

CAT. NO.	GRADE	GA./THK.	FINISH
L25SECBS	316	20/.035"	Brushed Stainless
L25SECPS	316	20/.035"	Polished Stainless
L25SECPB	C260	.045"	Polished Brass
L25SECSB	C260	.045"	Satin Brass
L25SECSA	5052	.050"	Satin Anodized
L25SECDU	5052	.050"	Dark Bronze Anodized

Minimum order: 1 each. All finishes can be combined for quantity pricing.

12" Welded End Cladding for L25S Series Laminated Square Base Shoe

CRL Welded End Cladding allows the user to match any of four architectural finishes offered in Cap Railing. It is 12" (305 mm) in length, and can be secured to the Base Shoe using 95CBL Silicone Sealant (see page 177B). One per package.
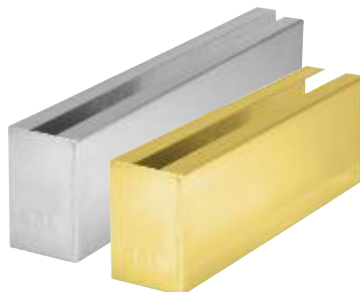
- Available in Four Architectural Finishes
- Adhere With Silicone Sealant

CAT. NO.	GRADE	GA./THK.	FINISH
L25WECBS	316	20/.035"	Brushed Stainless
L25WECPS	316	20/.035"	Polished Stainless
L25WECPB	C260	.045"	Polished Brass
L25WECSB	C260	.045"	Satin Brass

Minimum order: 1 each. All finishes can be combined for quantity pricing.

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TOLL Phone: (800) 421-6144
FREE Fax: (800) 262-3299
From Anywhere in the U.S. or Canada

CRL US ALUMINUM

CRL Cladding and Fabrication Services

- Metal Fabricated to Your Specifications
- Available in Many Architectural Finishes

CRL offers Cladding and Fabrication Services for Headers, Tubing, Channels, and other shapes needed for architectural projects. For additional information, contact CRL Technical Sales at (800) 421-6144 in the U.S., (877) 421-6144 from Canada, or (323) 588-1281 International, and ask for Ext. 7730. You can also e-mail us through our web site at **railings@crlaurence.com**.

CRL Cladding Tape

- Pressure Sensitive High-Strength Adhesive With Tenacious Holding Power
- Used for Adhering Cladding to Base Shoe

SDS ONLINE

SPEC. DATA ONLINE
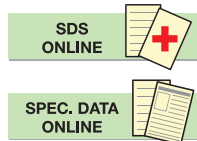
Our AT234 Cladding Tape is used to adhere cladding to Base Shoe. Made of a high strength gray acrylic foam with a high tack adhesive, it is used in conjunction with our 95CBL Silicone for a permanent, secure bond. See below for suggested application details.

CAT. NO.	THICKNESS	WIDTH	ROLL LENGTH
AT234	.045" (1.1 mm)	3/4" (19 mm)	108' (33 m)

Minimum order: 1 roll.

CRL Neutral Cure Silicone

- Used to Adhere Cladding to Base Shoe and Cap Rail to Glass
- Neutral Cure, Waterproof Formula
- Excellent Primerless Adhesion to Most Common Construction Substrates
- Can Be Applied in All Temperatures

SDS ONLINE

SPEC. DATA ONLINE
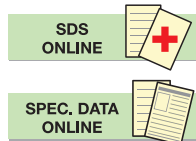
Use our 95CBL Silicone to adhere Cladding to Base Shoe and Cap Rail to glass. Neutral cure formula is best for use with brass material to avoid adverse reactions. Best results for cladding when used in conjunction with our AT234 Tape for a permanent, secure bond. See below for suggested application details. 95CBL can also be used for finishing off the top of the Base Shoe pocket (see page 151B).

For our complete selection of CRL Silicones visit our web site at **crlaurence.com/sealants**.

CAT. NO.	COLOR	CONTENTS	CTGS/CASE
95CBL	Black	10.3 Fl. Oz. (304 ml)	30

Minimum order: 1 each.

Application Suggestions for CRL Cladding

There are various methods of attaching the Cladding to the Base Shoe. All three types shown below will work, but a combination of Cladding Tape and Neutral Cure Silicone (Type C) offers the best of two worlds; the instant bond of the tape along with the speed of application of the silicone and its flexible, durable adhesion. We invite you to contact CRL Technical Sales to discuss your individual application.
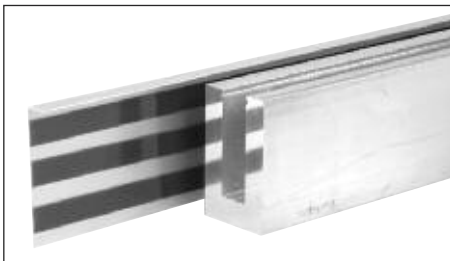
Type A: Apply three rows of Tape to the inside face of the Cladding. Carefully align the Cladding to the Base Shoe and press in place.
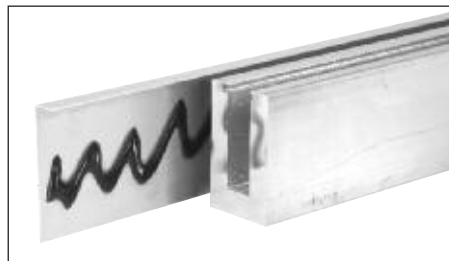
Type B: Apply Silicone to the inside face of the Cladding. Carefully align Cladding to the Base Shoe and press in place. Use clamps to hold the Cladding in place until the Silicone cures.
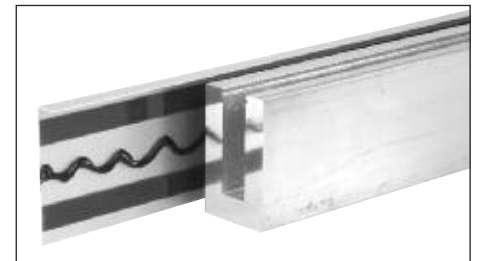
Type C: Apply two rows of Tape to the inside face of the Cladding, one toward the top and one toward the bottom. Apply the Silicone between the rows of Tape. Carefully align the Cladding to the Base Shoe and press in place.

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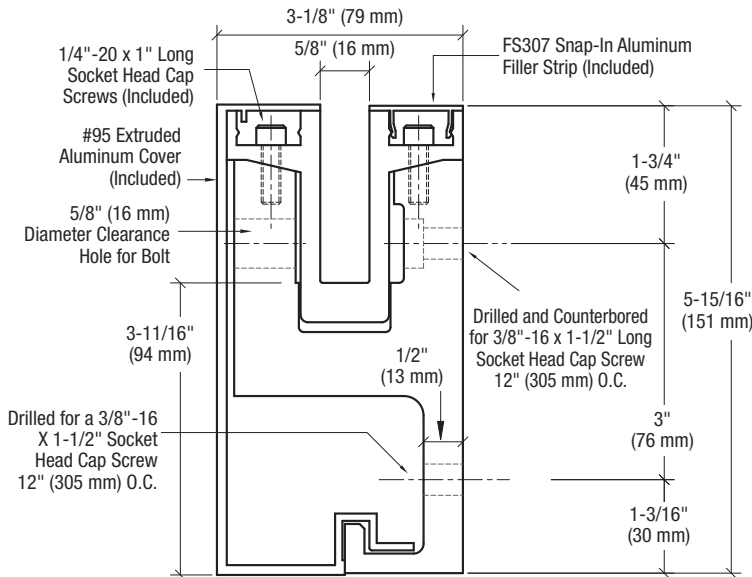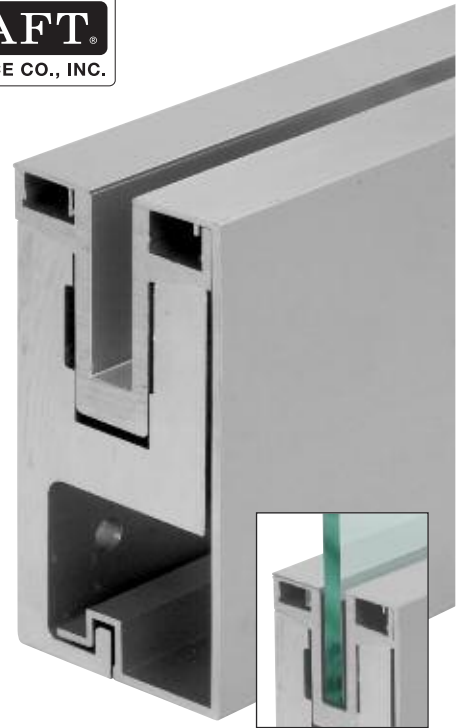CRL US ALUMINUM

CRL Blumcraft® RG200 Series Two Piece Base Shoe System

BLUMCRAFT®
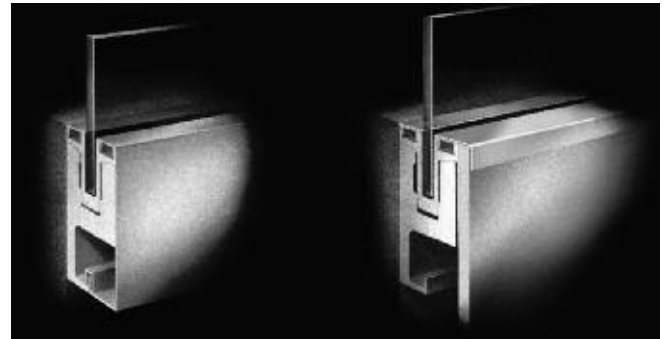A DIVISION OF C.R. LAURENCE CO., INC.

- For 1/2" (12 mm) Monolithic Tempered Glass
- Two Piece Mounting Base Isolates Glass Panels Against Shock of Building Movement
- Permits Easy Glass Panel Replacement By Means of Bolts
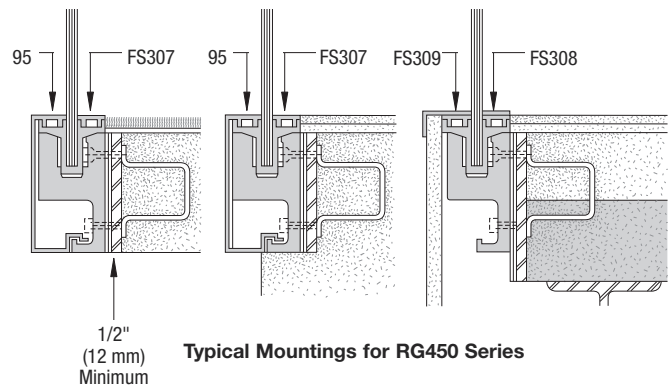- Railglass™ Factory Controlled Bonding of Glass is Also Available

USE MONOLITHIC TEMPERED GLASS

CRL Blumcraft's RG200 Series Two Piece Base Shoe System is offered in stock lengths or custom fabricated to size with or without factory installed 1/2" (12 mm) glass panels. The system permits easy glass panel installation and replacement by means of bolts. CRL Blumcraft's Glass Railing Systems are designed to meet and exceed typical code requirements for guard rail applications.

- Wet Glazed System Only
- 6063 Alloy, T52 Temper in Three Finishes

FS309   FS309   FS309   FS308   FS309   FS309

1/2" (12 mm) Minimum

FS309   FS307   FS307   FS311
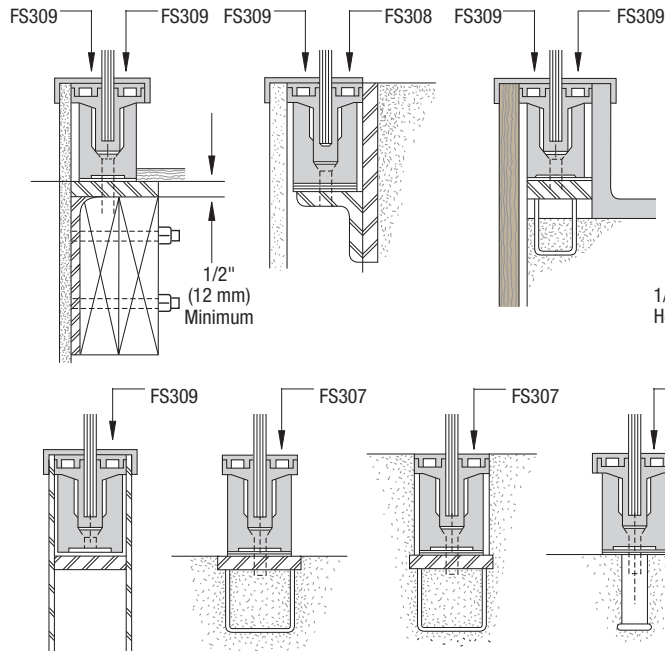
1/4"-20 x 3/4" Long Socket Head Cap Screws (Included)

3" (76 mm)
5/8" (16 mm)

FS307 Snap-In Aluminum Filler Strips (Included)

11/16" (17 mm)

2-7/8" (73 mm)

3-9/16" (90 mm)

RG200 Two Piece Aluminum Base Shoe

1-5/16" (33 mm)

Drilled for 1/2"-13 Flat Socket Head Cap Screws (Sold Separately). 12" (305 mm) O.C. Spacing.

ONLINE ARCHITECTURAL RESOURCES
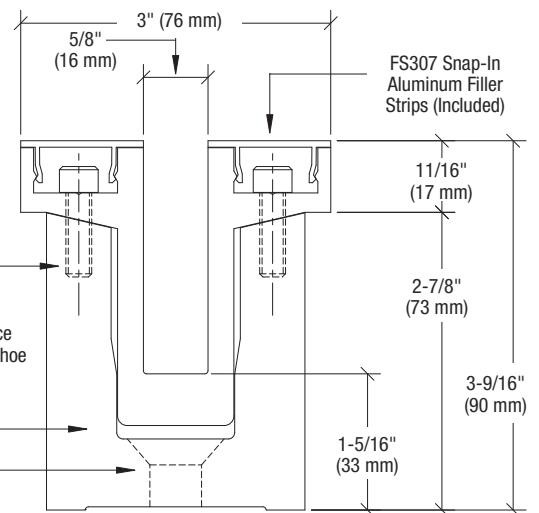
Typical Mountings for 1/2" (12 mm) Glass; Steel Sub-Structures by Others

GLASS SPECIFICATIONS:

Tempered Glass: Shall be 1/2" (12 mm) thick safety glass meeting the requirements of ANSI Standard 297.1 for Safety Glazing Materials and Consumer Product Safety Commission Standard 16 CFR 1201 Categories 1 and 2.

INSTALLATION NOTE:

The RG200 Base Shoe is furnished with pre-drilled through holes 12" (305 mm) O.C. spacing for 1/2"-13 Flat Socket Head Cap Screws. Customer to drill and tap through 1/2" (12 mm) thick (minimum) continuous steel plate using RG200 Base Shoe as a template for hole location.

RG200 SERIES TWO PIECE BASE SHOE

CAT. NO.	FINISH	STOCK LENGTH*	HOLE SIZE	HOLE TYPE	CENTER-TO-CENTER	WEIGHT
RG200SA	Satin Anodized	144" (3.65 m)	5/8" (16 mm)	Flat Head	12" (305 mm)	99 pounds (45 kg)
RG200DU	Dark Bronze Anodized	144" (3.65 m)	5/8" (16 mm)	Flat Head	12" (305 mm)	99 pounds (45 kg)
RG200MCA	Mill Clear Anodized	144" (3.65 m)	5/8" (16 mm)	Flat Head	12" (305 mm)	99 pounds (45 kg)

Minimum order: 1 each. All Base Shoe can be combined for quantity pricing. Must ship common carrier. *Stock lengths have a tolerance of plus or minus 3/4" (19 mm).

Shipping Note: Due to the difficulty in packaging and handling 144" (3.65 m) stock lengths, it is suggested that you take delivery of these at any of our service centers. If requiring shipment, all packaging and handling concerns must be agreed to by CRL and the customer prior to shipping. All shipping arrangements will be documented on your quotation for your signed approval.

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CRL US ALUMINUM

CRL Blumcraft® Cladding for RG200 Series Base Shoe

- Adhere With Cladding Tape and Silicone Sealant (See Page 177B)
- Custom Cutting and Mitering Service Available

BLUMCRAFT®
A DIVISION OF C.R. LAURENCE CO., INC.

Standard Installation Method

Alternate Installation Method
(Contact Technical Sales for more Information)

Blocking By Others

NOTE: Sold by individual pieces. Base Shoe requires two pieces for coverage on both sides. Base Shoe is sold separately.

CAT. NO.	GRADE	GA./THK.	LENGTH	FINISH
RG2CBS10	316	20/.035"	120" (3.05 m)	Brushed Stainless
RG2CPS10	316	20/.035"	120" (3.05 m)	Polished Stainless
RG2CPB10	C260	.045"	120" (3.05 m)	Polished Brass
RG2CSB10	C260	.045"	120" (3.05 m)	Satin Brass

Minimum order: 1 each. All finishes can be combined for quantity pricing. Custom lengths up to 168" (4.26 m) are available on special order. Must ship common carrier.

CRL Blumcraft® 12" Mitered Corner Cladding for RG200 Series Base Shoe

90 Degree

135 Degree

- 90 Degree and 135 Degree Corner Sets
- Adhere With Cladding Tape and Silicone Sealant (See Page 177B)
- Available in Four Architectural Finishes

CRL US ALUMINUM® MANUFACTURED IN THE USA

CRL Blumcraft Mitered Corner Cladding for RG200 Series Base Shoe is available in four architectural finishes. Each leg is 12" (305 mm) in length, and can be secured to the Base Shoe using Cladding Tape and Silicone Sealant. See page 177B for CRL AT234 Cladding Tape, 95CBL Silicone Sealant, and attachment instructions. Four pieces per set.

90 DEGREE CORNER CAT. NO.	135 DEGREE CORNER CAT. NO.	GRADE	GA./THK.	FINISH
RG290BS	RG2135BS	316	20/.035"	Brushed Stainless
RG290PS	RG2135PS	316	20/.035"	Polished Stainless
RG290PB	RG2135PB	C260	.045"	Polished Brass
RG290SB	RG2135SB	C260	.045"	Satin Brass

Minimum order: 1 set. All finishes can be combined for quantity pricing.

CRL Blumcraft® End Caps for RG200 Series Base Shoe

CRL US ALUMINUM® MANUFACTURED IN THE USA

△

CRL Blumcraft End Caps are available in six architectural finishes, plus mill aluminum. End Caps are secured to the Base Shoe using two socket head cap screws (included). One per package.

- Formed and Shaped to Fit
- Available in Six Architectural Finishes, Plus Mill Aluminum

| CAT. NO.	GRADE	GA./THK.	FINISH
RG2ECBS	316	20/.035"	Brushed Stainless△
RG2ECPS	316	20/.035"	Polished Stainless△
RG2ECPB	C260	.045"	Polished Brass△
RG2ECSB	C260	.045"	Satin Brass△
RG2ECSA	6063	.500"	Satin Anodized
RG2ECDU	6063	.500"	Dark Bronze Anodized
RG2ECM	6063	.500"	Mill Aluminum

Minimum order: 1 each. All finishes can be combined for quantity pricing.
△ Cladded Plate only included with stainless or brass finishes.

CRL Blumcraft® Replacement Snap-In Insert for RG200 Series Base Shoe

- Conceals Bolt Heads in RG200 Two Piece Base Shoe
- Easy Snap-In Installation

CAT. NO.	GRADE	LENGTH	FINISH
FS307SA	6063	144" (3.65 m)	Satin Anodized
FS307DU	6063	144" (3.65 m)	Dark Bronze Anodized
FS307M	6063	144" (3.65 m)	Mill Aluminum

Minimum order: 1 each. All finishes can be combined for quantity pricing. Stock lengths longer than 98" (2.49 m) must ship common carrier, unless you specify we cut them for U.P.S. A cutting charge will apply.

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CRL US ALUMINUM®

CRL Blumcraft® RG450 Series Two Piece Fascia Mount Base Shoe System

BLUMCRAFT®
A DIVISION OF C.R. LAURENCE CO., INC.

- For 1/2" (12 mm) Monolithic Tempered Glass
- Two Piece Mounting Base Isolates Glass Panels Against Shock of Building Movement
- Permits Easy Glass Panel Replacement By Means of Bolts
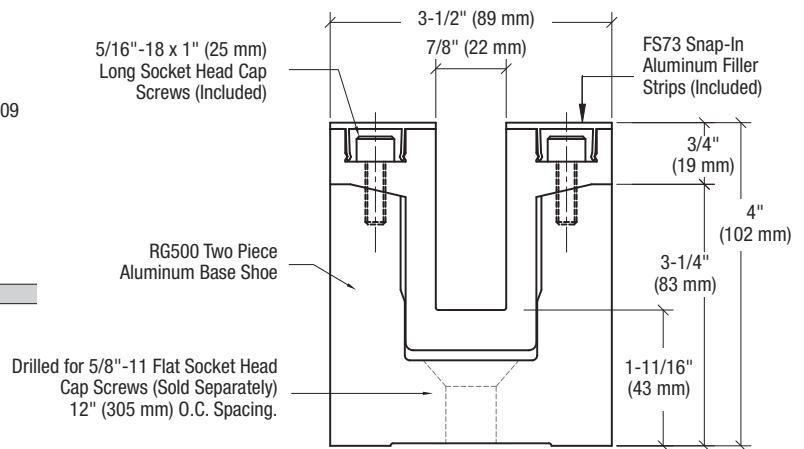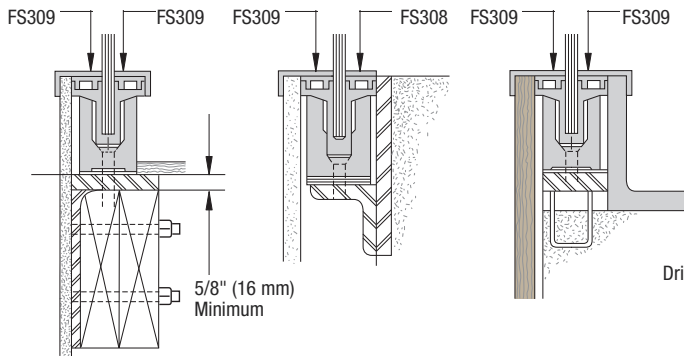- Railglass™ Factory Controlled Bonding of Glass is Also Available

USE MONOLITHIC TEMPERED GLASS

ONLINE **ARCHITECTURAL** **RESOURCES**

- Wet Glazed System Only
- 6063 Alloy, T52 Temper in Three Finishes

Diagram labels:
- 3-1/8" (79 mm)
- 5/8" (16 mm)
- 1/4"-20 x 1" Long Socket Head Cap Screws (Included)
- FS307 Snap-In Aluminum Filler Strip (Included)
- #95 Extruded Aluminum Cover (Included)
- 5/8" (16 mm) Diameter Clearance Hole for Bolt
- 3-11/16" (94 mm)
- 1/2" (13 mm)
- Drilled and Counterbored for 3/8"-16 x 1-1/2" Long Socket Head Cap Screw 12" (305 mm) O.C.
- 1-3/4" (45 mm)
- 5-15/16" (151 mm)
- 3" (76 mm)
- Drilled for a 3/8"-16 X 1-1/2" Socket Head Cap Screw 12" (305 mm) O.C.
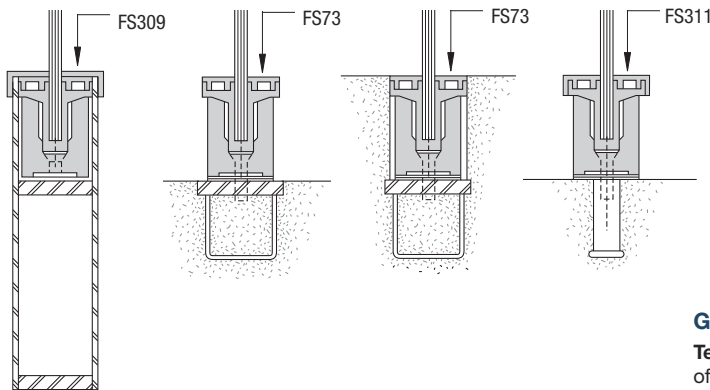- 1-3/16" (30 mm)

CRL Blumcraft's RG450 Series Two Piece Fascia Mount Base Shoe System is offered in stock lengths or custom fabricated to size with or without factory installed 1/2" (12 mm) glass panels. The system permits easy glass panel installation and replacement by means of bolts. CRL Blumcraft's Glass Railing Systems are designed to meet and exceed typical code requirements for guard rail applications.

Typical Mountings diagram labels: 95, FS307, 95, FS307, FS309, FS308, 1/2" (12 mm) Minimum

Typical Mountings for RG450 Series

GLASS SPECIFICATIONS:

Tempered Glass: Shall be 1/2" (12 mm) thick safety glass meeting the requirements of ANSI Standard 297.1 for Safety Glazing Materials and Consumer Product Safety Commission Standard 16 CFR 1201 Categories 1 and 2.

RG450 SERIES TWO PIECE BASE SHOE

CAT. NO.	FINISH	STOCK LENGTH*	HOLE SIZE	COUNTERBORE X DEPTH	CENTER-TO-CENTER	WEIGHT
RG450SA	Satin Anodized	144" (3.65 m)	13/32" (10 mm)	5/8" x 1/4" (16 x 6 mm)	12" (305 mm)	135 pounds (61 kg)
RG450DU	Dark Bronze Anodized	144" (3.65 m)	13/32" (10 mm)	5/8" x 1/4" (16 x 6 mm)	12" (305 mm)	135 pounds (61 kg)
RG450MCA	Mill Clear Anodized	144" (3.65 m)	13/32" (10 mm)	5/8" x 1/4" (16 x 6 mm)	12" (305 mm)	135 pounds (61 kg)

Minimum order: 1 each. All Base Shoe can be combined for quantity pricing. Must ship common carrier. *Stock lengths have a tolerance of plus or minus 3/4" (19 mm).

Shipping Note: Due to the difficulty in packaging and handling 144" (3.65 m) stock lengths, it is suggested that you take delivery of these at any of our service centers. If requiring shipment, all packaging and handling concerns must be agreed to by CRL and the customer prior to shipping. All shipping arrangements will be documented on your quotation for your signed approval.

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CRL US ALUMINUM

CRL Blumcraft® Cladding for RG450 Series Base Shoe

Inside Fascia Cladding Strip

Outside Fascia Cladding
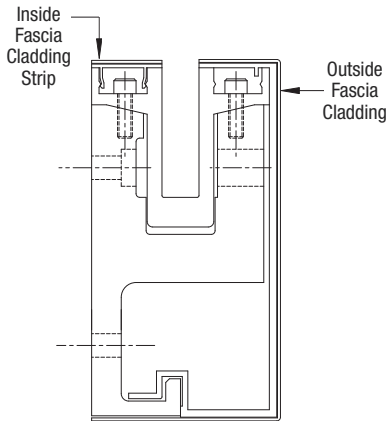
• Adhere With Cladding Tape and Silicone Sealant (See Page 177B)

Base Shoe Sold Separately

BLUMCRAFT®
A DIVISION OF C.R. LAURENCE CO., INC.

INSIDE FASCIA CLADDING STRIP

CAT. NO.	GRADE	GA./THK.	LENGTH	FINISH
RG41FBS10	316	20/.035"	120" (3.05 m)	Brushed Stainless
RG41FPS10	316	20/.035"	120" (3.05 m)	Polished Stainless
RG41FPB10	C260	.045"	120" (3.05 m)	Polished Brass
RG41FSB10	C260	.045"	120" (3.05 m)	Satin Brass

Minimum order: 1 each. All finishes can be combined for quantity pricing. Custom lengths up to 168" (4.26 m) are available on special order. Must ship common carrier.

OUTSIDE FASCIA CLADDING

CAT. NO.	GRADE	GA./THK.	LENGTH	FINISH
RG40FBS10	316	20/.035"	120" (3.05 m)	Brushed Stainless
RG40FPS10	316	20/.035"	120" (3.05 m)	Polished Stainless
RG40FPB10	C260	.045"	120" (3.05 m)	Polished Brass
RG40FSB10	C260	.045"	120" (3.05 m)	Satin Brass

Minimum order: 1 each. All finishes can be combined for quantity pricing. Custom lengths up to 168" (4.26 m) are available on special order. Must ship common carrier.

CRL Blumcraft® 12" Mitered Corner Cladding for RG450 Series Base Shoe

CRL Blumcraft® Mitered Corner Cladding for RG450 Series Base Shoe is available in four architectural finishes. Each leg is 12" (305 mm) in length, and can be secured to the Base Shoe using Cladding Tape and Silicone Sealant. See page 177B for CRL AT234 Cladding Tape, 95CBL Silicone Sealant, and attachment instructions. Four pieces per set.

• 90 Degree and 135 Degree Corner Sets
• Adhere With Cladding Tape and Silicone Sealant (See Page 177B)
• Available in Four Architectural Finishes

90 DEGREE CORNER CAT. NO.	135 DEGREE CORNER CAT. NO.	GRADE	GA./THK.	FINISH
RG490BS	RG4135BS	316	20/.035"	Brushed Stainless
RG490PS	RG4135PS	316	20/.035"	Polished Stainless
RG490PB	RG4135PB	C260	.045"	Polished Brass
RG490SB	RG4135SB	C260	.045"	Satin Brass

Minimum order: 1 set. All finishes can be combined for quantity pricing.

CRL Blumcraft® End Caps for RG450 Series Base Shoe

CRL Blumcraft® End Caps are available in six architectural finishes, plus mill aluminum. End Caps are secured to the Base Shoe using included screws and bracket. One per package.

• Attach With Screws, Cladding Tape and Silicone Sealant (See Page 177B)
• Available in Six Architectural Finishes, Plus Mill Aluminum

| CAT. NO.	GRADE	GA./THK.	FINISH
RG4ECBS	316	20/.035"	Brushed Stainless△
RG4ECPS	316	20/.035"	Polished Stainless△
RG4ECPB	C260	.045"	Polished Brass△
RG4ECSB	C260	.045"	Satin Brass△
RG4ECSA	6063	.500"	Satin Anodized
RG4ECDU	6063	.500"	Dark Bronze Anodized
RG4ECM	6063	.500"	Mill Aluminum

Minimum order: 1 each. All finishes can be combined for quantity pricing.
△Cladded Plate only included with stainless or brass finishes.

CRL Blumcraft® Cover Trim and Replacement Snap-In Insert for RG450 Series Base Shoe

• Two Architectural Finishes, Plus Mill Aluminum
• Custom Cutting and Mitering Service Available
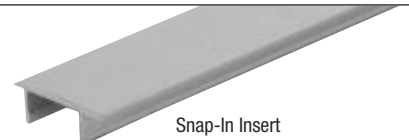
Snap-In Insert

Cover Trim

COVER TRIM CAT. NO.	SNAP-IN INSERT CAT. NO.	GRADE	LENGTH	FINISH
95SA	FS307SA	6063	144" (3.65 m)	Satin Anodized
95DU	FS307DU	6063	144" (3.65 m)	Dark Bronze Anodized
95M	FS307M	6063	144" (3.65 m)	Mill Aluminum

Minimum order: 1 each. All finishes can be combined for quantity pricing. Stock lengths longer than 98" (2.49 m) must ship common carrier, unless you specify we cut them for U.P.S. A cutting charge will apply.
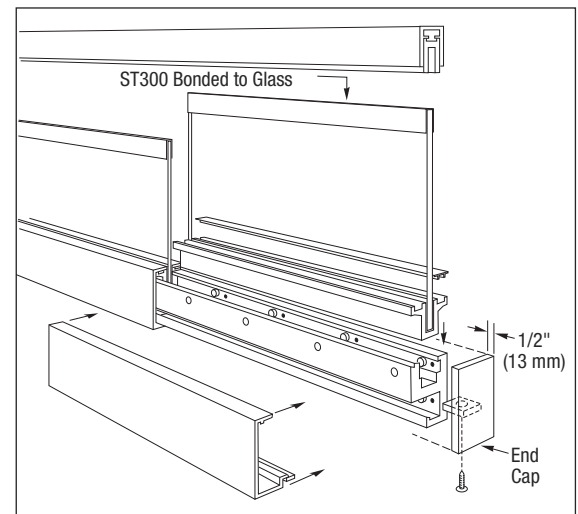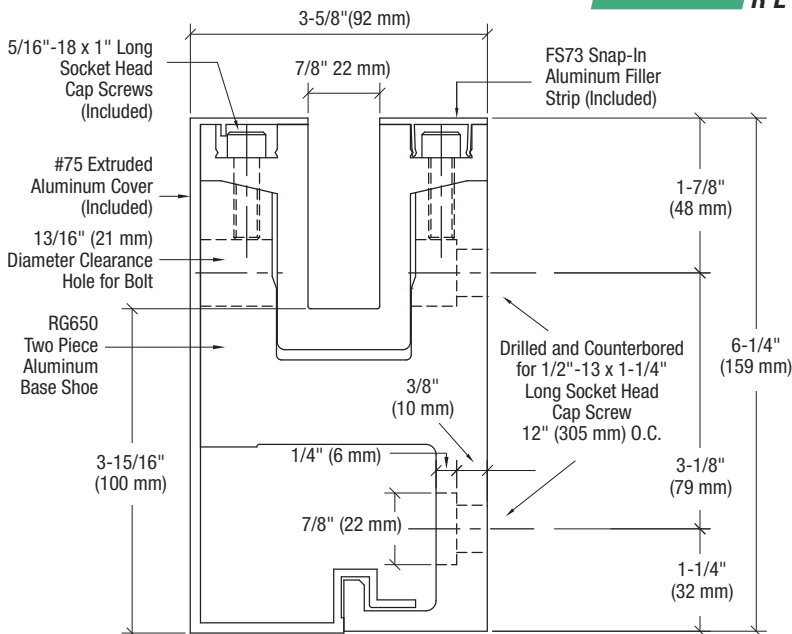
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FREE Fax: (800) 262-3299
From Anywhere in the U.S. or Canada

CRL US ALUMINUM

CRL Blumcraft® RG500 Series Two Piece Base Shoe System

BLUMCRAFT®
A DIVISION OF C.R. LAURENCE CO., INC.

- For 3/4" (19 mm) Monolithic Tempered Glass
- Two Piece Mounting Base Isolates Glass Panels Against Shock of Building Movement
- Permits Easy Glass Panel Replacement By Means of Bolts
- Railglass™ Factory Controlled Bonding of Glass is Also Available

ONLINE ARCHITECTURAL RESOURCES

USE MONOLITHIC TEMPERED GLASS
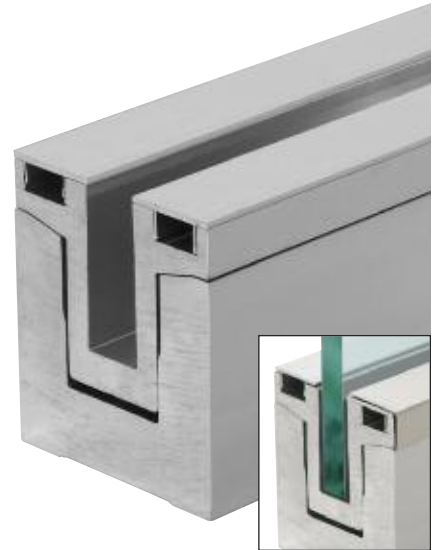
CRL Blumcraft's RG500 Series Two Piece Base Shoe System is offered in stock lengths or custom fabricated to size with or without factory installed 3/4" (19 mm) glass panels. The system permits easy glass panel installation and replacement by means of bolts. CRL Blumcraft's Glass Railing Systems are designed to meet and exceed typical code requirements for guard rail applications.

- Wet Glazed System Only
- 6063 Alloy, T52 Temper in Three Finishes

5/16"-18 x 1" (25 mm) Long Socket Head Cap Screws (Included)

3-1/2" (89 mm)
7/8" (22 mm)

FS73 Snap-In Aluminum Filler Strips (Included)

3/4" (19 mm)

4" (102 mm)

RG500 Two Piece Aluminum Base Shoe

3-1/4" (83 mm)

Drilled for 5/8"-11 Flat Socket Head Cap Screws (Sold Separately) 12" (305 mm) O.C. Spacing.

1-11/16" (43 mm)

FS309   FS309   FS309   FS308   FS309   FS309

5/8" (16 mm) Minimum

Typical Mountings for 3/4" (19 mm) Glass; Steel Sub-Structures By Others

FS309   FS73   FS73   FS311

INSTALLATION NOTE:

The RG500 Base Shoe is furnished with pre-drilled through holes 12" (305 mm) O.C. spacing for 5/8"-11 Flat Socket Head Cap Screws. Customer to drill and tap through 5/8" (16 mm) thick (minimum) continuous steel plate using RG500 Base Shoe as a template for hole location.
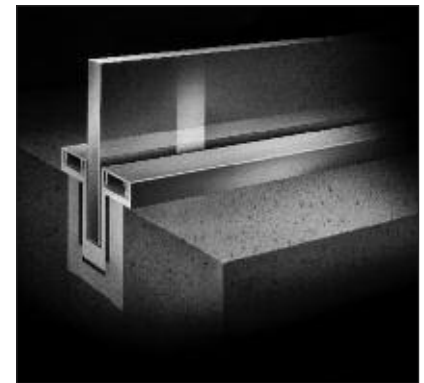
GLASS SPECIFICATIONS:

Tempered Glass: Shall be 3/4" (19 mm) thick safety glass meeting the requirements of ANSI Standard 297.1 for Safety Glazing Materials and Consumer Product Safety Commission Standard 16 CFR 1201 Categories 1 and 2.
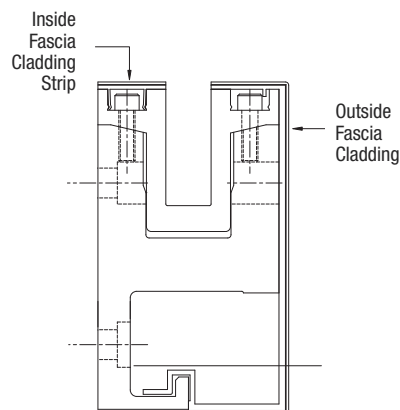
RG500 SERIES TWO PIECE BASE SHOE

CAT. NO.	FINISH	STOCK LENGTH*	HOLE SIZE	HOLE TYPE	CENTER-TO-CENTER	WEIGHT
RG500SA	Satin Anodized	144" (3.65 m)	5/8" (16 mm)	Flat Head	12" (305 mm)	155 pounds (70 kg)
RG500DU	Dark Bronze Anodized	144" (3.65 m)	5/8" (16 mm)	Flat Head	12" (305 mm)	155 pounds (70 kg)
RG500MCA	Mill Clear Anodized	144" (3.65 m)	5/8" (16 mm)	Flat Head	12" (305 mm)	155 pounds (70 kg)

Minimum order: 1 each. All Base Shoe can be combined for quantity pricing. Must ship common carrier. *Stock lengths have a tolerance of plus or minus 3/4" (19 mm).

Shipping Note: Due to the difficulty in packaging and handling 144" (3.65 m) stock lengths, it is suggested that you take delivery of these at any of our service centers. If requiring shipment, all packaging and handling concerns must be agreed to by CRL and the customer prior to shipping. All shipping arrangements will be documented on your quotation for your signed approval.

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From Anywhere in the U.S. or Canada

CRL
US ALUMINUM

CRL Blumcraft® Cladding for RG500 Series Base Shoe

- Adhere With Cladding Tape and Silicone Sealant (See Page 177B)
- Custom Cutting and Mitering Service Available

BLUMCRAFT®
A DIVISION OF C.R. LAURENCE CO., INC.

NOTE: Sold by individual pieces. Base Shoe requires two pieces for coverage on both sides. Base Shoe is sold separately.

Standard Installation Method
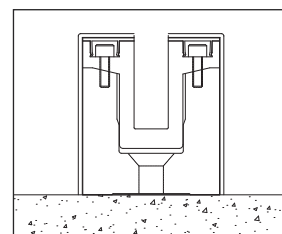
Alternate Installation Method (Contact Technical Sales for more Information)

CAT. NO.	GRADE	GA./THK.	LENGTH	FINISH
RG50CBS10	316	20/.035"	120" (3.05 m)	Brushed Stainless
RG50CPS10	316	20/.035"	120" (3.05 m)	Polished Stainless
RG50CPB10	C260	.045"	120" (3.05 m)	Polished Brass
RG50CSB10	C260	.045"	120" (3.05 m)	Satin Brass

Minimum order: 1 each. All finishes can be combined for quantity pricing. Standard stock lengths are 120" (3.05 m). Custom lengths up to 168" (4.26 m) are available on special order. Must ship common carrier.

CRL Blumcraft® 12" Mitered Corner Cladding for RG500 Series Base Shoe

90 Degree

135 Degree

- 90 Degree and 135 Degree Corner Sets
- Adhere With Cladding Tape and Silicone Sealant (See Page 177B)
- Available in Four Architectural Finishes

CRL Blumcraft® Mitered Corner Cladding for RG500 Series Base Shoe is available in four architectural finishes. Each leg is 12" (305 mm) in length, and can be secured to the Base Shoe using Cladding Tape and Silicone Sealant. See page 177B for CRL AT234 Cladding Tape, 95CBL Silicone Sealant, and attachment instructions. Four pieces per set.

90 DEGREE CORNER CAT. NO.	135 DEGREE CORNER CAT. NO.	GRADE	GA./THK.	FINISH
RG590BS	RG5135BS	316	20/.035"	Brushed Stainless
RG590PS	RG5135PS	316	20/.035"	Polished Stainless
RG590PB	RG5135PB	C260	.045"	Polished Brass
RG590SB	RG5135SB	C260	.045"	Satin Brass

Minimum order: 1 set. All finishes can be combined for quantity pricing.

CRL Blumcraft® End Caps for RG500 Series Base Shoe

CRL Blumcraft® End Caps are available in six architectural finishes, plus mill aluminum. End Caps are secured to the Base Shoe using two socket head cap screws (included). One per package.

- Formed and Shaped to Fit
- Available in Six Architectural Finishes, Plus Mill Aluminum

| CAT. NO.	GRADE	GA./THK.	FINISH
RG5ECBS	316	20/.035"	Brushed Stainless △
RG5ECPS	316	20/.035"	Polished Stainless △
RG5ECPB	C260	.045"	Polished Brass △
RG5ECSB	C260	.045"	Satin Brass △
RG5ECSA	6063	.500"	Satin Anodized
RG5ECDU	6063	.500"	Dark Bronze Anodized
RG5ECM	6063	.500"	Mill Aluminum

Minimum order: 1 each. All finishes can be combined for quantity pricing.
△ Cladded Plate only included with stainless or brass finishes.

CRL Blumcraft® Replacement Snap-In Insert for RG500 Series Base Shoe

- Conceals Bolt Heads in RG500 Two-Piece Base Shoe
- Easy Snap-In Installation

CAT. NO.	GRADE	LENGTH	FINISH
FS73SA	6063	144" (3.65 m)	Satin Anodized
FS73DU	6063	144" (3.65 m)	Dark Bronze Anodized
FS73M	6063	144" (3.65 m)	Mill Aluminum

Minimum order: 1 each. All finishes can be combined for quantity pricing. Stock lengths longer than 98" (2.49 m) must ship common carrier, unless you specify we cut them for U.P.S. A cutting charge will apply.

MORE **CHOICES** crlaurence.com/base-shoe
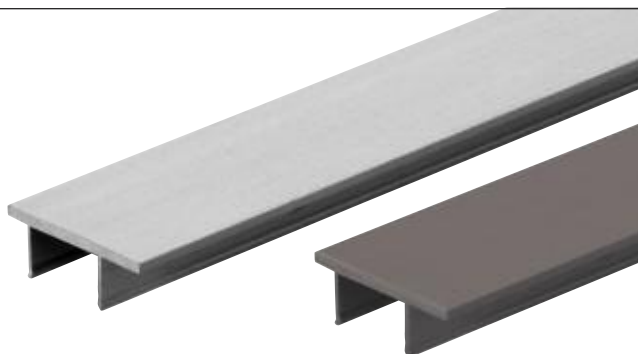
CRL Blumcraft® RG650 Series Two Piece Fascia Mount Base Shoe System

BLUMCRAFT
A DIVISION OF C.R. LAURENCE CO., INC.

- For 3/4" (19 mm) Monolithic Tempered Glass
- Two Piece Mounting Base Isolates Glass Panels Against Shock of Building Movement
- Permits Easy Glass Panel Replacement By Means of Bolts
- Railglass™ Factory Controlled Bonding of Glass is Also Available

USE MONOLITHIC TEMPERED GLASS

- Wet Glazed System Only
- 6063 Grade, T52 Temper in Three Finishes

ONLINE ARCHITECTURAL RESOURCES

Diagram labels (cross-section)

- 5/16"-18 x 1" Long Socket Head Cap Screws (Included)
- #75 Extruded Aluminum Cover (Included)
- 13/16" (21 mm) Diameter Clearance Hole for Bolt
- RG650 Two Piece Aluminum Base Shoe
- 3-5/8" (92 mm)
- 7/8" 22 mm
- FS73 Snap-In Aluminum Filler Strip (Included)
- 1-7/8" (48 mm)
- 3/8" (10 mm)
- 3-15/16" (100 mm)
- 1/4" (6 mm)
- 7/8" (22 mm)
- 6-1/4" (159 mm)
- Drilled and Counterbored for 1/2"-13 x 1-1/4" Long Socket Head Cap Screw 12" (305 mm) O.C.
- 3-1/8" (79 mm)
- 1-1/4" (32 mm)
- ST300 Bonded to Glass
- 1/2" (13 mm)
- End Cap

CRL Blumcraft's RG650 Series Two Piece Fascia Mount Base Shoe System is offered in stock lengths or custom fabricated to size with or without factory installed 3/4" (19 mm) glass panels. The system permits easy glass panel installation and replacement by means of bolts. CRL Blumcraft's Glass Railing Systems are designed to meet and exceed typical code requirements for guard rail applications.

Typical Mountings for RG650 Series

- 3/4" (19 mm)
- FS74
- FS78
- 75
- FS73
- 5/8" (16 mm) Minimum

GLASS SPECIFICATIONS:

Tempered Glass: Shall be 3/4" (19 mm) thick safety glass meeting the requirements of ANSI Standard 297.1 for Safety Glazing Materials and Consumer Product Safety Commission Standard 16 CFR 1201 Categories 1 and 2.

RG650 SERIES TWO PIECE BASE SHOE

CAT. NO.	FINISH	STOCK LENGTH*	HOLE SIZE	COUNTERBORE X DEPTH	CENTER-TO-CENTER	WEIGHT
RG650SA	Satin Anodized	144" (3.65 m)	9/16" (14 mm)	7/8" x 1/4" (22 x 6 mm)	12" (305 mm)	181 pounds (82 kg)
RG650DU	Dark Bronze Anodized	144" (3.65 m)	9/16" (14 mm)	7/8" x 1/4" (22 x 6 mm)	12" (305 mm)	181 pounds (82 kg)
RG650MCA	Mill Clear Anodized	144" (3.65 m)	9/16" (14 mm)	7/8" x 1/4" (22 x 6 mm)	12" (305 mm)	181 pounds (82 kg)

Minimum order: 1 each. All Base Shoe can be combined for quantity pricing. Must ship common carrier. * Stock lengths have a tolerance of plus or minus 3/4" (19 mm).

Shipping Note: Due to the difficulty in packaging and handling 144" (3.65 m) stock lengths, it is suggested that you take delivery of these at any of our service centers. If requiring shipment, all packaging and handling concerns must be agreed to by CRL and the customer prior to shipping. All shipping arrangements will be documented on your quotation for your signed approval.

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CRL Blumcraft® Cladding for RG650 Series Base Shoe

- Adhere With Cladding Tape and Silicone Sealant (See Page 177B)

BLUMCRAFT®
A DIVISION OF C.R. LAURENCE CO., INC.

Inside Fascia Cladding Strip

Outside Fascia Cladding

Base Shoe Sold Separately

INSIDE FASCIA CLADDING STRIP

CAT. NO.	GRADE	GA./THK.	LENGTH	FINISH
RG61FBS10	316	20/.035"	120" (3.05 m)	Brushed Stainless
RG61FPS10	316	20/.035"	120" (3.05 m)	Polished Stainless
RG61FPB10	C260	.045"	120" (3.05 m)	Polished Brass
RG61FSB10	C260	.045"	120" (3.05 m)	Satin Brass

Minimum order: 1 each. All finishes can be combined for quantity pricing. Custom lengths up to 168" (4.26 m) are available on special order. Must ship common carrier.

OUTSIDE FASCIA CLADDING

CAT. NO.	GRADE	GA./THK.	LENGTH	FINISH
RG60FBS10	316	20/.035"	120" (3.05 m)	Brushed Stainless
RG60FPS10	316	20/.035"	120" (3.05 m)	Polished Stainless
RG60FPB10	C260	.045"	120" (3.05 m)	Polished Brass
RG60FSB10	C260	.045"	120" (3.05 m)	Satin Brass

Minimum order: 1 each. All finishes can be combined for quantity pricing. Custom lengths up to 168" (4.26 m) are available on special order. Must ship common carrier.

CRL Blumcraft® 12" Mitered Corner Cladding for RG650 Series Base Shoe

CRL Blumcraft® Mitered Corner Cladding for RG650 Series Base Shoe is available in four architectural finishes. Each leg is 12" (305 mm) in length, and can be secured to the Base Shoe using Cladding Tape and Silicone Sealant. See page 177B for CRL AT234 Cladding Tape, 95CBL Silicone Sealant, and attachment instructions. Four pieces per set.

- 90 Degree and 135 Degree Corner Sets
- Adhere With Cladding Tape and Silicone Sealant (See Page 177B)
- Available in Four Architectural Finishes

CRL US ALUMINUM® MANUFACTURED IN THE USA

90 DEGREE CORNER CAT. NO.	135 DEGREE CORNER CAT. NO.	GRADE	GA./THK.	FINISH
RG690BS	RG6135BS	316	20/.035"	Brushed Stainless
RG690PS	RG6135PS	316	20/.035"	Polished Stainless
RG690PB	RG6135PB	C260	.045"	Polished Brass
RG690SB	RG6135SB	C260	.045"	Satin Brass

Minimum order: 1 set. All finishes can be combined for quantity pricing.

CRL Blumcraft® End Caps for RG650 Series Base Shoe

CRL US ALUMINUM® MANUFACTURED IN THE USA

CRL Blumcraft® End Caps are available in six architectural finishes, plus mill aluminum. End Caps are non-handed, and secured to the Base Shoe using included screws and bracket. One per package.

- Formed and Shaped to Fit
- Available in Six Architectural Finishes, Plus Mill Aluminum

CAT. NO.	GRADE	GA./THK.	FINISH
RG6ECBS	316	20/.035"	Brushed Stainless △
RG6ECPS	316	20/.035"	Polished Stainless △
RG6ECPB	C260	.045"	Polished Brass △
RG6ECSB	C260	.045"	Satin Brass △
RG6ECSA	6063	.500"	Satin Anodized
RG6ECDU	6063	.500"	Dark Bronze Anodized
RG6ECM	6063	.500"	Mill Aluminum

Minimum order: 1 each. All finishes can be combined for quantity pricing.
△ Cladded Plate only included with stainless or brass finishes.

△

CRL Blumcraft® Cover Trim and Replacement Snap-In Insert for RG650 Series Base Shoe

- Two Architectural Finishes, Plus Mill Aluminum
- Custom Cutting and Mitering Service Available

Cover Trim
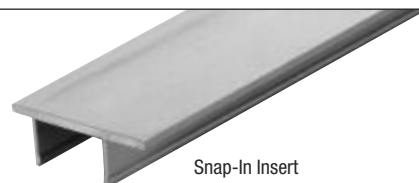
Snap-In Insert

COVER TRIM CAT. NO.	SNAP-IN INSERT CAT. NO.	GRADE	LENGTH	FINISH
75SA	FS73SA	6063	144" (3.65 m)	Satin Anodized
75DU	FS73DU	6063	144" (3.65 m)	Dark Bronze Anodized
75M	FS73M	6063	144" (3.65 m)	Mill Aluminum

Minimum order: 1 each. All finishes can be combined for quantity pricing. Stock lengths longer than 98" (2.49 m) must ship common carrier, unless you specify we cut them for U.P.S. A cutting charge will apply.

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CRL US ALUMINUM®

CRL Weld Blocks

- Fabricated and Ready to Weld
- Eliminates the Need for Drilling and Tapping on Job Site
- 10 Per Pack

Tapped Hole

1/2" (13 mm) Thick

Length
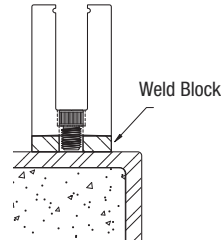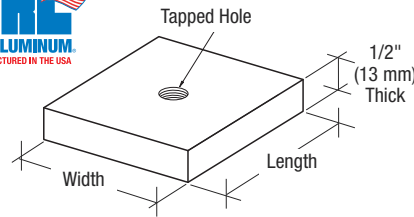
Width

Weld Block

Installation Guideline:
During the installation process make sure a certified welder applies a 3/16" (5 mm) continuous fillet weld on two opposite sides of the Weld Block for proper connection.

CAT. NO.	WIDTH	LENGTH	TAPPED HOLE	WORKS WITH BASE SHOE
BSWB12	2-1/2" (64 mm)	2-1/4" (57 mm)	1/2"-13	8B, B5A, B5S, B5T, B5L, 8B58, B6N, B6S
BSWB712	2-3/4" (70 mm)	2-1/2" (64 mm)	1/2"-13	8B34, B7S, 9BL56, L56S
LSWB21	3" (76 mm)	3-1/4" (83 mm)	M14-2.0	9BL21, L21S, L25S, 9BL68, L68S

Minimum order: 1 package.

CRL Drain Blocks

- Placed Under Base Shoe to Provide Drainage Space
- Great for Balconies and Decks
- 10 Per Pack

3/8" (10 mm) Thick
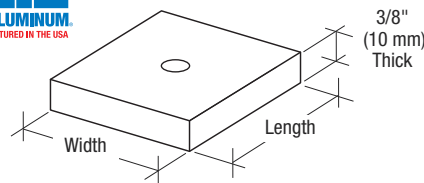
Length

Width

CAT. NO.	WIDTH	LENGTH	WORKS WITH BASE SHOE
BSDB38	2-1/2" (64 mm)	2-1/4" (57 mm)	8B, B5A, B5S, B5T, B5L, 8B58, B6N, B6S
BSDB34	2-3/4" (70 mm)	2-1/2" (64 mm)	8B34, B7S, 9BL56, L56S
LSDB21	3" (76 mm)	3-1/4" (83 mm)	9BL21, L21S, L25S, 9BL68, L68S

Minimum order: 1 package.

CRL Aluminum Shim Strips

- Available in Three Thicknesses: 1/64", 1/32", and 1/16" (.4, .8, and 1.6 mm) to Adjust Base Shoe to Plumb Position

CRL Aluminum Shim Strips are used under one side of the Base Shoe to adjust it into a plumb position before securing it with the fasteners. Length can be trimmed as required for an exact fit.

- 10 Per Pack

CAT. NO.	THICKNESS	WIDTH	LENGTH
BSS164	1/64" (0.4 mm)	3/4" (19 mm)	24" (610 mm)
BSS132	1/32" (0.8 mm)	3/4" (19 mm)	24" (610 mm)
BSS116	1/16" (1.6 mm)	3/4" (19 mm)	24" (610 mm)

Minimum order: 1 package. Sizes can be combined for quantity pricing.

CRL Aluminum Horseshoe Shims

- Available in Three Thicknesses: 1/16", 1/8", and 1/4" (1.6, 3.2, and 6.3 mm)
- Won't Compress Under Base Shoe

CRL Aluminum Horseshoe Shims are ideal for Base Shoe installations. They will not compress or project beyond the Base Shoe. They are also the same base metal as the Base Shoe, so corrosion is minimized. Different thicknesses can be stacked to fill odd size gaps. 6061-T6 Aluminum Alloy.

L

W

CAT. NO.	THICKNESS	"W" WIDTH	"L" LENGTH
AHS66	1/16" (1.6 mm)	2" (51 mm)	3" (76 mm)
AHS68	1/8" (3.2 mm)	2" (51 mm)	3" (76 mm)
AHS64	1/4" (6.3 mm)	2" (51 mm)	3" (76 mm)

Minimum order: 100 each. Must be ordered in increments of 100. Sizes can be combined for quantity pricing.

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CRL US ALUMINUM
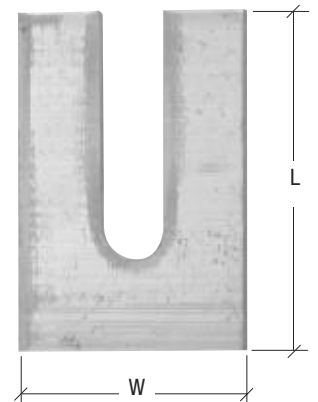
Hilti® TE 2-S Deluxe Rotary Hammer Drill

- 110 Volt Tool Delivers 0 to 4,600 Blows Per Minute

- Fast and Efficient Drilling of 3/16" to 3/4" (5 to 19 mm) Diameter Holes Into Concrete and Masonry
- Sturdy Motor With High Load Rating

This Hilti® TE 2-S Deluxe Rotary Hammer Drill is mainly for drilling into concrete and masonry, however, its precision hammering feature allows for drilling into brittle materials like tile and stone as well. Includes: Tool with 13' (4 m) Power Cord, Side Handle, and Depth-Gauge, all in a molded Carrying Case. Minimum order is one each.

CAT. NO. HRHD1

CRL Makita® 1" D-Handle Rotary Hammer Drill

Includes: Depth Gauge, Side Handle, and Carrying Case

- Variable Speed 0 to 1,100 RPM
- 110 Volt, 7 AMP Motor
- 0 to 4,500 Blows Per Minute
- Uses S.D.S. Drills

This Heavy-Duty Rotary Hammer with a variable speed and reversing motor is ideal for wedge-bolt drilling. It accepts SDS Plus® bits while operating in 3-mode operation: "rotation only", "hammering with rotation" and "hammering only" for multiple applications. The ergonomic D-shaped handle with rubberized soft grip gives the user increased comfort and control. Minimum order is one each.

CAT. NO. HR2475

Hilti® TE-CX Masonry Drill Bits

- For Drilling Into Concrete and Masonry

CAT. NO. EBAD38
3/8" Masonry Drill Bit

CAT. NO. EBAD1
12 mm Masonry Drill Bit

CAT. NO. EBAD2
12 mm Masonry Drill Bit

CAT. NO. EBAD3
18 mm Masonry Drill Bit

Hilti® TE-CX are the world's first Hammer Drill Bits with gradient technology, superior heat resistance and ruggedness – even when drilling into rebar. For use with EBA334, EBA335, and CA384334/SS Hilti® Expansion Anchors (see page 188B).

CAT. NO.	DIAMETER	WORKS WITH	LENGTH
EBAD38	3/8"	CA38X334/SS Expansion Anchor	6-3/4" (171 mm)
EBAD1	12 mm	EBA334 Expansion Anchor	6-11/16" (170 mm)
EBAD2	12 mm	EBA334 Expansion Anchor	10-5/8" (270 mm)
EBAD3	18 mm	EBA335 Expansion Anchor	18-1/2" (470 mm)

Minimum order: 1 each.
Hilti is a registered trademark of Hilti Aktiengesellschaft Corporation.
Makita is a registered trademark of Makita Corporation.
SDS Plus is a registered trademark of Robert Bosch Gmblt.

CRL SDS Plus® Shank Masonry Drills

- Work in Both Regular and Impact Drills with SDS Plus® Drive
- ANSI Spec for Concrete Anchors
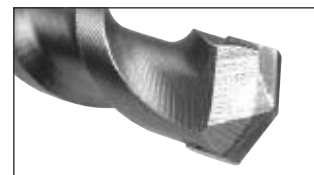
CAT. NO. SDSW12
Drill for 1/2" Anchors

CAT. NO. SDSW38
Drill for 3/8" Anchors

CAT. NO. SDSW14
Drill for 1/4" Anchors

SDS Plus® Shank Masonry Drills are made to the ANSI Specifications required for the proper performance of concrete anchors. Life expectancy: 100-500 holes, depending on substrate and drill used. They work in both regular and impact drills, and can be used in a number of masonry materials.

CAT. NO.	DIAMETER	WORKS WITH	LENGTH
SDSW12	.495"	WBA12X4 Concrete Anchor	12" (305 mm)
SDSW38	.389"	WBA38X4 Concrete Anchor	12" (305 mm)
SDSW14	.259"	WBA14X3 Concrete Anchor	8" (203 mm)

Minimum order: 1 each. Sizes can be combined for quantity pricing.

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base-shoe-tools   Search

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TOLL Phone: (800) 421-6144
FREE Fax: (800) 262-3299
From Anywhere in the U.S. or Canada

CRL U.S. ALUMINUM

Base Shoe Fasteners and Accessories

Hilti® KWIK HUS-EZ Screw Anchors

- Heat Treated Carbon Steel
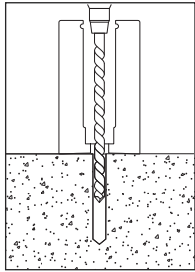
Using the proper diameter ANSI Grade drill bit, drill a hole into the concrete to a depth of at least 1/2" (13 mm), or one anchor diameter deeper than the embedment required. Blow the hole clean of dust and other material.
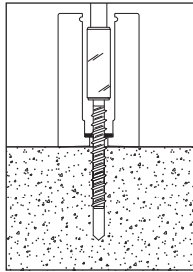
Insert the Screw Anchor through the Washer and Base Shoe into the hole. Begin tightening the Screw Anchor by rotating clockwise and applying downward pressure. This will engage the first few threads as the Anchor begins to advance.
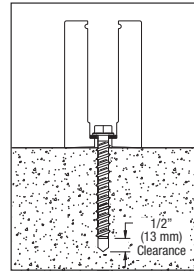
Continue tightening the Anchor until it is firmly seated against the Base Shoe while achieving the required embedment depth. In extremely dense materials, use of an impact wrench is recommended.

1/2" (13 mm) Clearance

Hilti® KWIK HUS-EZ Anchors achieve their load capacity by the thread undercutting the base material. They can be applied in 3000 to 8500 psi concrete to achieve maximum clamping torque to the Base Shoe. Anchors are 2009, 2012, and 2015 IBC Compliant.

CAT. NO.	DESCRIPTION	QTY/BOX
WBA14X3	1/4" x 3" (6 x 76 mm) Screw Anchor	50
WBAW14	*Washer for WBA14X3	50
WBA38X4	3/8" x 4" (10 x 102 mm) Screw Anchor	50
WBAW38	*Washer for WBA38X4	50
WBA12X4	1/2" x 4" (13 x 102 mm) Screw Anchor	50

Minimum order: 50 each. Must be ordered in increments of 50. *Must be used with Wedge-Bolt Anchors to achieve the required attachment strength of the Base Shoe to the concrete.

Hilti® KWIK Bolt TZ

- 304 Grade Stainless Steel for Exterior Applications
- Carbon Steel for Interior Applications
- Suited for Seismic and Cracked Concrete Tension Zone Applications
- 2009, 2012, and 2015 IBC Compliant

For Exterior Applications

CAT. NO. CA38X334SS
3/8" x 3-3/4" (95 mm) Long 304 Grade Stainless Steel
Minimum order is 50 each.
Must be ordered in increments of 50.

For Interior Applications

CAT. NO. CA38X334
3/8" x 3-3/4" (95 mm) Long Carbon Steel
Minimum order is 50 each.
Must be ordered in increments of 50.

Hilti® HSL-3 Expansion Anchors

- Approved for Use With CRL's Railing Systems
- Optimized Design Provides Reliable Performance in a Wide Range of Applications
- Delivers Optimum Performance in Cracked Concrete in the Tension Zone, Resulting in Excellent Load Value

CAT. NO. EBA334
M8 3-7/8" (98 mm) Long

CAT. NO. EBA335
M12 6-1/8" (156 mm) Long

The Hilti® HSL-3 is a 2009, 2012, and 2015 IBC compliant, torque controlled, heavy-duty expansion bolt designed for high performance in static and dynamic load applications.

CAT. NO.	DESCRIPTION
EBA334	Hilti® M8 3-7/8" (98 mm) Long HSL-3 Expansion Anchor
EBA335	Hilti® M12 6-1/8" (156 mm) Long HSL-3 Expansion Anchor

Minimum order: 10 each. Must be ordered in increments of 10.

Hilti® Hole Blow Out Pump

- For Cleaning Freshly Drilled Holes in Concrete and Masonry
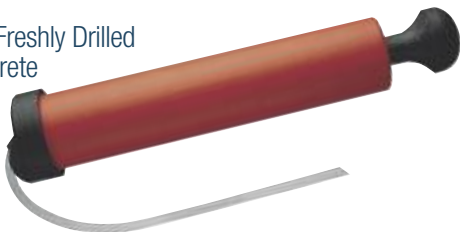
The Hilti® Hole Blow Out Pump is an accessory used for cleaning out freshly drilled anchoring holes in concrete and masonry. Minimum order is one each.

CAT. NO. EBADP1

CRL 9/16" Drill Bit 7/8" C-Bore

- For Drilling Holes in 8B, B5T, B5S, B5A, B6S, B6N, 8B58, 9BL56, L56S, 8B34, and B7S Base Shoes
- For Use in Drill Press Only

3/8" Shank

CAT. NO. 91678CB
Minimum order is one each.

Hilti is a registered trademark of Hilti Aktiengesellschaft Corporation.

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CRL US ALUMINUM

CRL Hex Head Screws and Washers

- Use With CRL 9BL21, L21S, and L25S Series Base Shoes
- 304 Grade Stainless Steel

CRL Hex Head Screws and Washers are used to secure CRL's 9BL21, L21S, and L25S Series Base Shoes to approved 1/2" (13 mm) steel embedment plates with a minimum 1/2" (13 mm) of thread engagement. Also works with CRL Weld Blocks.

CAT. NO. SHCSW14X34
Washers Only

CAT. NO. SHCSM14X34
Hex Head Screw Only

CAT. NO. HHCS14X34
Hex Head Screw With Washer

CAT. NO.	DESCRIPTION
SHCSW14X34	28 mm O.D. Stainless Steel Washer
SHCSM14X34	M14-2.0 x 20 mm Long, Din Rated Hex Head Screw
HHCS14X34	M14-2.0 x 20 mm Long, Din Rated Hex Head Screw with 28 mm Diameter Washer

Minimum order: 10 each. Must be ordered in increments of 10.

CRL Socket Head Cap Screws

- 304 Grade Stainless Steel

CRL Socket Head Cap Screws are used to secure glass railing Base Shoe to approved 1/2" (13 mm) steel embedment plates with a minimum 1/2" (13 mm) of thread engagement. Also works with CRL Weld Blocks (see page 186B).

CAT. NO.	SIZE
SHCS10X34	10-24 x 3/4" (19 mm)
SHCS12X34	1/2"-13 x 3/4" (19 mm)
SHCS12X1	1/2"-13 x 1" (25 mm)
SHCS12X114	1/2"-13 x 1-1/4" (32 mm)
SHCS12X112	1/2"-13 x 1-1/2" (38 mm)
SHCS14X1	1/4"-20 x 1" (25 mm)

Minimum order: 10 each. Must be ordered in increments of 10.

CRL Impact Sockets and Accessories

CAT. NO. 7175P
3/8" Drive Extension

CAT. NO. 7714H
7/16" 6-Pt. Socket

CAT. NO. 7716H
1/2" 6-Pt. Socket

CAT. NO. 7718H
9/16" 6-Pt. Socket

CAT. NO. 7719H
19 mm 6-Pt. Socket

CAT. NO. 7290
3/8" Hex Bit

CAT. NO.	DESCRIPTION	WORKS WITH
7175P	3/8" Drive – 3" (76.2 mm) Drive Extension	All 3/8" Drives and Hex Bits
7714H	3/8" Drive – 7/16" Deep Socket 6 pt.	WBA14X3 Anchors
7716H	3/8" Drive – 1/2" Deep Socket 6-pt.	EBA334 Anchors
7718H	3/8" Drive – 9/16" Deep Socket 6 pt.	WBA38X4 Anchors
7719H	3/8" Drive – 19 mm Impact Socket 6 pt.	EBA335 Anchors
7290	3/8" Drive – 3/8" (9.5 mm) Hex Bit	All SHCS12 Cap Screws

Minimum order: 1 each.

CRL Bituminous Paint

- Creates a Barrier Between Railing Hardware and Concrete
- Prevents Electrolysis From Dissimilar Metals and Corrosion From Concrete

SDS ONLINE

CRL Bituminous Black Paint is used as a barrier to protect CRL Base Shoe, Posts, Railings, and Stanchions from electrolysis and corrosion when embedded in concrete. Simply spray or brush on a clean and dry surface and allow to dry before embedding in concrete. Minimum order is one each.
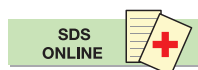
CAT. NO. BC17A
15 Ounces (425 Grams)
Note: Cannot Ship By Air

CAT. NO. BC5GL
5 Gallon Pail
(Net 4.7 Gallons/17.8 Liters)
Note: Ships Common Carrier Only

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TOLL Phone: (800) 421-6144
FREE Fax: (800) 262-3299
From Anywhere in the U.S. or Canada

CRL US ALUMINUM

CRL Blumcraft® Drop-in Concrete Anchors

- Deliver Optimum Performance

Use CRL Blumcraft® Drop-in Concrete Anchors for all concrete substrate mounting conditions. Anchors must be securely grouted in concrete floor structure using Kwixset™ or Rockite™ expansion cement (see page 132B).

BLUMCRAFT®
A DIVISION OF C.R. LAURENCE CO., INC.
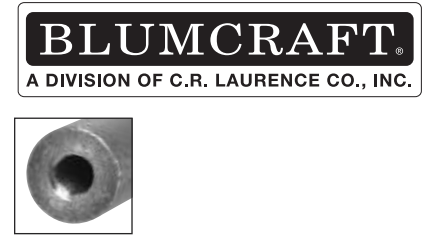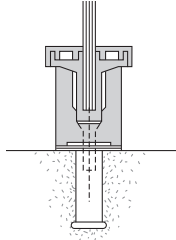
CAT. NO.	DESCRIPTION	USE WITH	QTY/PACK
RGSA1	1/2"-13 Drop-in Concrete Anchor	RG200 Base Shoe	10
RGSA2	5/8"-11 Drop-in Concrete Anchor	RG500 Base Shoe	10

Minimum order: 10 each. Must order in increments of 10.

CRL Blumcraft® Replacement Insert Screws

- Two Sizes Designed for Use With the RG200, RG450, and RG500, RG650 Base Shoe Systems
- 304 Grade Stainless Steel

CRL Blumcraft® Replacement Insert Screws are designed to hold the two piece mounting base together during the installation process.

Replacement Insert Screw
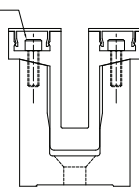
CAT. NO.	DESCRIPTION	USE WITH	QTY/PACK
SHCS14X34	1/4"-20 X 3/4" (19 mm) Socket Head Cap Screw	RG200, RG450 Base Shoe	10
SHCS51618X1	5/16"-18 X 1" (25 mm) Socket Head Cap Screw	RG500, RG650 Base Shoe	10

Minimum order: 10 each. Must order in increments of 10.

CRL Blumcraft® Fasteners for RG200, RG450, RG500, and RG650 Base Shoe

These 304 grade stainless steel fasteners are designed to secure the RG Series Base Shoes to approved steel embed plates or weld blocks.

- For Use With RG200 Base Shoe
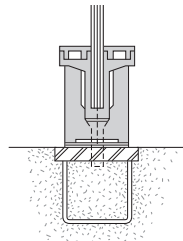
RG200 SERIES FASTENERS

CAT. NO.	DESCRIPTION	QTY/PACK
1213X112FHS	1/2"-13 X 1-1/2" (38 mm) Flat Head Socket Screw	10

Minimum order: 10 each. Must order in increments of 10.

- For Use With RG450 Base Shoe
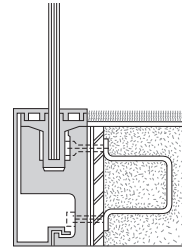
RG450 SERIES FASTENERS

CAT. NO.	DESCRIPTION	QTY/PACK
SHCS38X112	3/8"-16 X 1-1/2" (38 mm) Socket Head Cap Screw	10

Minimum order: 10 each. Must order in increments of 10.

- For Use With RG500 Base Shoe
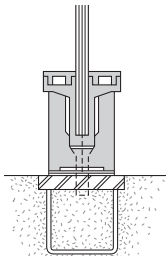
RG500 SERIES FASTENERS

CAT. NO.	DESCRIPTION	QTY/PACK
5811X2FHS	5/8"-11 X 2" (51 mm) Flat Head Socket Screw	10

Minimum order: 10 each. Must order in increments of 10.

- For Use With RG650 Base Shoe
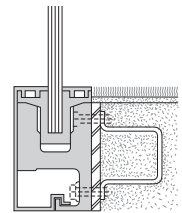
RG650 SERIES FASTENERS

CAT. NO.	DESCRIPTION	QTY/PACK
1213X114FHS	1/2"-13 X 1-1/4" (32 mm) Socket Head Cap Screw	10

Minimum order: 10 each. Must order in increments of 10.

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TOLL Phone: (800) 421-6144
FREE Fax: (800) 262-3299
From Anywhere in the U.S. or Canada

CRL US ALUMINUM

CRL SMOKE BAFFLE SYSTEMS

CRL Smoke Baffle "Partitions"

- For Limiting the Spread of Smoke and Providing for Adequate Egress During Evacuations
- Required Life and Safety Code in Some Buildings

CRL US ALUMINUM®
MANUFACTURED IN THE USA

USE MONOLITHIC TEMPERED GLASS
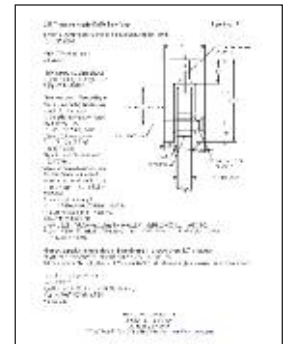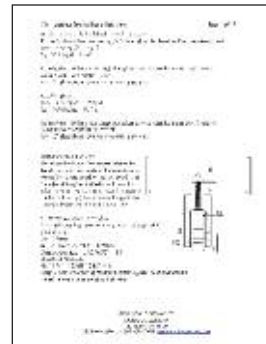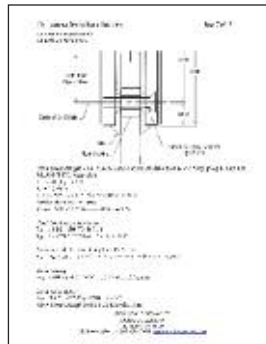
On the following pages you can see how our Smoke Baffle Systems work and which system will best complete your project. For drawing files, code regulations and engineering reports, please visit our web site at **crlaurence.com/test-reports**.

By definition a Smoke Partition shall extend from the floor to the underside of the floor or roof deck above, or to the underside of the ceiling above where the ceiling membrane is constructed to limit the transfer of smoke.

Design professionals frequently use the phrases "smoke barrier" and "smoke partition" interchangeably. According to the Life Safety Code, however, the purpose, application, and construction of smoke barriers and partitions are substantially different. Construction requirements for smoke partitions aren't as rigorous as those for smoke barriers because partitions aren't intended to provide the same level of protection. Instead of protecting people who have been evacuated to another area of a building, a smoke partition need only limit the spread of smoke so that people can get past the room of fire origin. A smoke partition is not required to be fire rated. It's purpose is to contain enough smoke in an area to activate a sprinkler in the building.

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TOLL Phone: (800) 421-6144
FREE Fax: (800) 262-3299
From Anywhere in the U.S. or Canada

CRL US ALUMINUM®

CRL Standard Smoke Baffle Base Shoe for 1/2" (12 mm) Glass

- For Fabricating Almost Invisible Smoke Curtains With 1/2" (12 mm) Tempered Glass
- Glass is Mechanically Secured With Fasteners and Grommets
- Custom Drilling, Mitering, and Cutting Services Available

USE MONOLITHIC TEMPERED GLASS

Replacement Fasteners and Grommets
CAT. NO. B5BSP1
(10 Each Per Pack)
Minimum order: 1 pack.

Drilled and Countersunk for 1/4" (6 mm) Flat Head Fasteners @ 12" (305 mm) CTC (Fasteners not Included)

1-9/16" (40 mm)

Cladding

13/16" (21 mm)

1-1/4" (32 mm) from Edge of Glass

2-3/16" (56 mm)

2-13/16" (71 mm)

Center of 3/4" (19 mm) Diameter Hole In Glass

5/8" (16 mm)

Seal (Included)

1/4"-20 FMS x 1-1/4" (32 mm) S/S @ 12" (305 mm) CTC (Included)

Nylon Grommet (Included)

1/2" (12 mm) Tempered Glass (By Others)

CRL Standard Smoke Baffle Base Shoe With Cladding
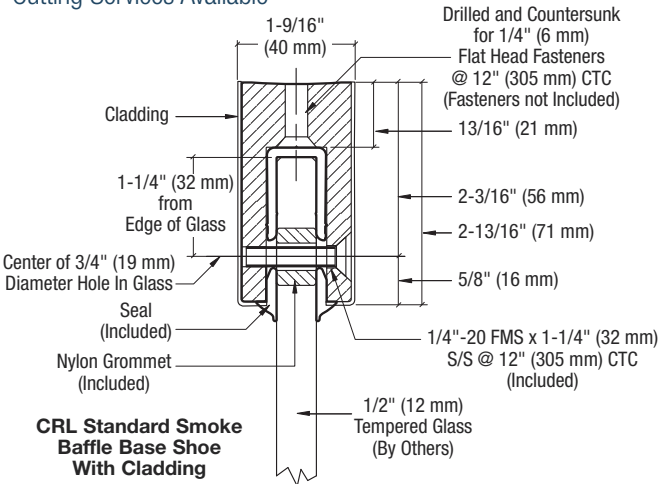
CRL Standard Smoke Baffle Base Shoe is designed to provide an almost invisible 1/2" (12 mm) tempered glass smoke curtain. Many of today's fire codes require large offices or retail areas to be broken down into smaller, more manageable areas that can be monitored by smoke detectors. This is the specific application for smoke baffles or curtains. Smoke curtains work to retain smoke in a specific area of a specified square footage. Some sprinkler systems are activated by a smoke alarm, so sectioning off areas through the use of smoke curtains can prevent unnecessary sprinkler activation.
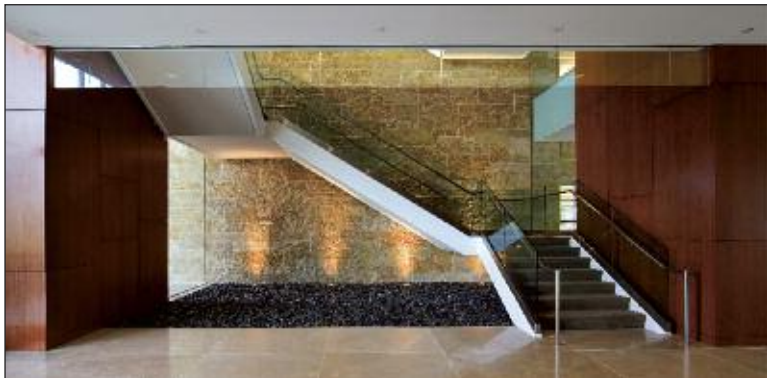
Extruded aluminum Standard Smoke Baffle Base Shoe simply attaches to the ceiling structure so the glass can hang straight down. The glass is secured with screws going through nylon grommets (both included), that fit into 3/4" (19 mm) holes drilled in the glass on 12" (305 mm) centers. A glass fabrication template is included. Cladding in six architectural finishes is available (see opposite page). For additional Base Shoe specifications visit our web site at **crlaurence.com/smoke-baffles**.

NOTE: Check your local building codes for regulations pertaining to ceiling area square footage and required depth specifications for smoke baffles or glass curtains.

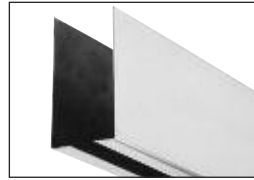| CAT. NO.	STOCK LENGTH	CEILING ATTACHMENT	GLASS ATTACHMENT	WEIGHT
B5B10	120" (3.05 m) ▲	Requires (10) 1/4" (6 mm) Flat Head Fasteners	Requires 3/4" (19 mm) Holes	38 lbs. (17 kg)
B5B20	240" (6.10 m) ▲	Requires (20) 1/4" (6 mm) Flat Head Fasteners	Requires 3/4" (19 mm) Holes	75 lbs. (34 kg)

Minimum order: 1 each. All Base Shoe can be combined for quantity pricing. ▲ Comes with GR5PV Cap Rail Vinyl, glass mounting grommets, fasteners, and RG12100 Roll-In Vinyl. Must ship common carrier.

Shipping Notice: Due to the difficulty in packaging and handling 240" (6.10 m) stock lengths, it is suggested that you Will Call these at any of our regional service centers. If requiring shipment, all packaging and handling concerns must be agreed to by CRL and the customer prior to shipping. All shipping arrangements will be documented on your quotation for your signed approval.

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TOLL Phone: (800) 421-6144
FREE Fax: (800) 262-3299
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CRL US ALUMINUM

CRL Cladding for Standard Smoke Baffle Base Shoe

- Adhere With Cladding Tape and Silicone Sealant
- Six Architectural Finishes
- Custom Cutting and Mitering Service

CRL Cladding is available in six architectural finishes. It can be secured to the Base Shoe using Cladding Tape and Silicone Sealant. See page 177B for CRL AT234 Cladding Tape, 95CBL Silicone Sealant, and attachment instructions. **NOTE:** Sold only by individual pieces. Base Shoe requires two pieces for coverage on both sides.

CAT. NO.	GRADE	GA./THK.	STOCK LENGTH	FINISH
BWCBS10	304	20/.035"	120" (3.05 m)	Brushed Stainless
BWCPS10	304	20/.035"	120" (3.05 m)	Polished Stainless
BWCPB10	C260	.045"	120" (3.05 m)	Polished Brass
BWCSB10	C260	.045"	120" (3.05 m)	Satin Brass
BWCSA10	5052	.050"	120" (3.05 m)	Satin Anodized
BWCDU10	5052	.050"	120" (3.05 m)	Dark Bronze Anodized

Minimum order: 1 each. Finishes can be combined for quantity pricing. Must ship common carrier.
NOTE: Cladding in lengths up to 168" (4.27 m) can be fabricated on special order.

CRL End Caps for Standard Smoke Baffle Base Shoe

- Adhere With Cladding Tape and Silicone Sealant
- Six Architectural Finishes

CRL End Caps are available in six architectural finishes. They can be secured to the Base Shoe using Cladding Tape and Silicone Sealant. See page 177B for CRL AT234 Cladding Tape, 95CBL Silicone Sealant, and attachment instructions.

CAT. NO.	GRADE	GA./THK.	FINISH
B5WECBS	304	20/.035"	Brushed Stainless
B5WECPS	304	20/.035"	Polished Stainless
B5WECPB	C260	.045"	Polished Brass
B5WECSB	C260	.045"	Satin Brass
B5WECSA	5052	.050"	Satin Anodized
B5WECDU	5052	.050"	Dark Bronze Anodized

Minimum order: 1 each. All finishes can be combined for quantity pricing.

CRL 12" Mitered Corner Cladding for Standard Smoke Baffle Base Shoe

- 90 Degree and 135 Degree Corner Sets in Six Architectural Finishes
- Adhere With Cladding Tape and Silicone Sealant

CRL Mitered Corner Cladding is available in six architectural finishes. Outside legs are 12" (305 mm) in length, and can be secured to the Base Shoe using Cladding Tape and Silicone Sealant. See page 177B for CRL AT234 Cladding Tape, 95CBL Silicone Sealant, and attachment instructions. Sold only in sets of four pieces.

90 DEGREE CORNER CAT. NO.	135 DEGREE CORNER CAT. NO.	GRADE	GA./THK.	FINISH
B5W90BS	B5W135BS	304	20/.035"	Brushed Stainless
B5W90PS	B5W135PS	304	20/.035"	Polished Stainless
B5W90PB	B5W135PB	C260	.045"	Polished Brass
B5W90SB	B5W135SB	C260	.045"	Satin Brass
B5W90SA	B5W135SA	5052	.050"	Satin Anodized
B5W90DU	B5W135DU	5052	.050"	Dark Bronze Anodized

Minimum order: 1 set. All finishes can be combined for quantity pricing.

CRL Roll-In Vinyl

- Black Vinyl Dresses Up Top Opening

CRL Roll-In Vinyl finishes off the installation of the glass panels in wet glaze installations, and also helps secure the glass in Smoke Baffle Base Shoe applications.

CAT. NO.	FOR GLASS SIZE	ROLL LENGTH
RG12100	1/2" (12 mm)	100' (30.5 m)
RG12500	1/2" (12 mm)	500' (152.4 m)

Minimum order: 1 roll.

CRL Cap Rail Vinyl

- Centers the Top of the Glass in B5B Series Standard Smoke Baffle Base Shoe
- Black Color Vinyl Protects Glass Edge

CRL Cap Rail Vinyl is applied to the edge of the glass before inserting it into the Smoke Baffle Base Shoe. This centers the glass and protects the edge while holding mounting grommets in place.

1-3/16" (30 mm)

1/2" (13 mm)

CAT. NO.	DESCRIPTION	STOCK LENGTH
GR5PV	Cap Rail Vinyl for 1/2" (12 mm) Glass	120" (3.05 m)

Minimum order: 1 stock length. Stock lengths longer than 98" (2.49 m) must ship common carrier, unless you specify we cut them for U.P.S. A cutting charge will apply. Packing charge added to orders of fewer than five stock lengths.

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TOLL Phone: (800) 421-6144
FREE Fax: (800) 262-3299
From Anywhere in the U.S. or Canada

CRL Heavy-Duty Smoke Baffle Base Shoe for 3/4" (19 mm) Glass

- For Fabricating Almost Invisible Smoke Curtains With 3/4" (19 mm) Tempered Glass
- Glass is Mechanically Secured With Fasteners and Grommets
- Custom Drilling, Mitering, and Cutting Services Available

USE MONOLITHIC TEMPERED GLASS

Replacement Fasteners and Grommets

CAT. NO. B7BSP1
(10 Each Per Pack)
Minimum order: 1 pack.

Drilled and Countersunk for 1/4" (6 mm) Flat Head Fasteners @ 12" (305 mm) CTC (Fasteners not Included)

1-15/16" (49 mm)

Cladding

13/16" (21 mm)

2" (51 mm) from Edge of Glass

2-15/16" (75 mm)

3-9/16" (90 mm)

Center of 7/8" (22 mm) Diameter Hole in Glass

5/8" (16 mm)

Seal (Included)

1/4"-20 FMS x 1-3/4" (45 mm) S/S @ 12" (305 mm) CTC (Included)

Nylon Grommet (Included)

3/4" (19 mm) Tempered Glass (By Others)

CRL Heavy-Duty Smoke Baffle Base Shoe With Cladding
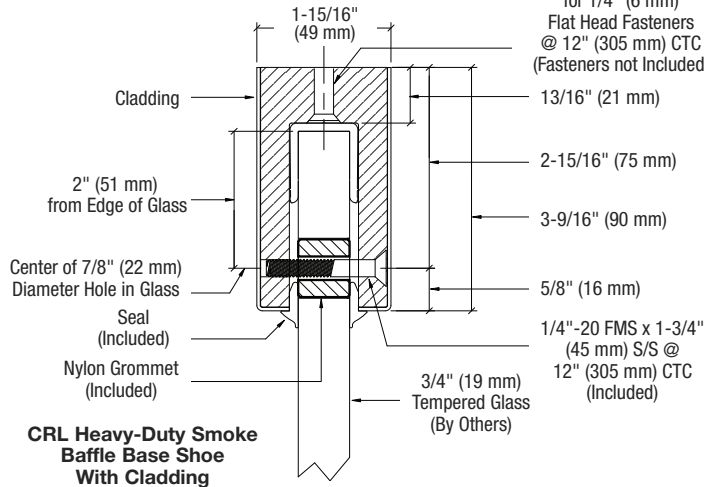
CRL Heavy-Duty Smoke Baffle Base Shoe is designed to provide an almost invisible 3/4" (19 mm) tempered glass smoke curtain. Many of today's fire codes require large offices or retail areas to be broken down into smaller, more manageable areas that can be monitored by smoke detectors. This is the specific application for smoke baffles or curtains. Smoke curtains work to retain smoke in an area of a specified square footage. Some sprinkler systems are activated by a smoke alarm, so sectioning off areas through the use of smoke curtains can prevent unnecessary sprinkler activation.

Extruded aluminum Heavy-Duty Smoke Baffle Base Shoe simply attaches to the ceiling structure so the glass can hang straight down. The glass is secured with screws going through nylon grommets (both included), that fit into 3/4" (19 mm) holes drilled in the glass on 12" (305 mm) centers. A glass fabrication template is included. Cladding in six architectural finishes is available (see opposite page). For additional Base Shoe specifications visit our web site at **crlaurence.com/smoke-baffles**.

NOTE: Check your local building codes for regulations pertaining to ceiling area square footage and required depth specifications for smoke baffles or glass curtains.

CAT. NO.	STOCK LENGTH	CEILING ATTACHMENT	GLASS ATTACHMENT	WEIGHT
B7B10	120" (3.05 m)▲	Requires (10) 1/4" (6 mm) Flat Head Fasteners	Requires 3/4" (19 mm) Holes	43 lbs. (19 kg)
B7B20	240" (6.10 m)▲	Requires (20) 1/4" (6 mm) Flat Head Fasteners	Requires 3/4" (19 mm) Holes	86 lbs. (39 kg)

Minimum order: 1 each. All Base Shoe can be combined for quantity pricing. ▲Comes with GR7PV Cap Rail Vinyl, glass mounting grommets, fasteners, and RG12100 Roll-In Vinyl. Must ship common carrier.

Shipping Notice: Due to the difficulty in packaging and handling 240" (6.10 m) stock lengths, it is suggested that you Will Call these at any of our regional service centers. If requiring shipment, all packaging and handling concerns must be agreed to by CRL and the customer prior to shipping. All shipping arrangements will be documented on your quotation for your signed approval.

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smoke-baffles   Search

194B

or enter the Catalog Number for complete product information

TOLL Phone: (800) 421-6144
FREE Fax: (800) 262-3299
From Anywhere in the U.S. or Canada

CRL US ALUMINUM

CRL Cladding for Heavy-Duty Smoke Baffle Base Shoe

- Adhere With Cladding Tape and Silicone Sealant
- Six Architectural Finishes
- Custom Cutting and Mitering Service

CRL Cladding is available in six architectural finishes. It can be secured to the Base Shoe using Cladding Tape and Silicone Sealant. See page 177B for CRL AT234 Cladding Tape, 95CBL Silicone Sealant, and attachment instructions. **NOTE:** Sold only by individual pieces. Base Shoe requires two pieces for coverage on both sides.

CAT. NO.	GRADE	GA./THK.	STOCK LENGTH	FINISH
B7WCBS10	304	20/.035"	120" (3.05 m)	Brushed Stainless
B7WCPS10	304	20/.035"	120" (3.05 m)	Polished Stainless
B7WCPB10	C260	.045"	120" (3.05 m)	Polished Brass
B7WCSB10	C260	.045"	120" (3.05 m)	Satin Brass
B7WCSA10	5052	.050"	120" (3.05 m)	Satin Anodized
B7WCDU10	5052	.050"	120" (3.05 m)	Dark Bronze Anodized

Minimum order: 1 each. Finishes can be combined for quantity pricing. Must ship common carrier.
NOTE: Cladding in lengths up to 168" (4.27 m) can be fabricated on special order.

CRL End Caps for Heavy-Duty Smoke Baffle Base Shoe

- Adhere With Cladding Tape and Silicone Sealant
- Six Architectural Finishes

CRL End Caps are available in six architectural finishes. They can be secured to the Base Shoe using Cladding Tape and Silicone Sealant. See page 177B for CRL AT234 Cladding Tape, 95CBL Silicone Sealant, and attachment instructions.

CAT. NO.	GRADE	GA./THK.	FINISH
B7WECBS	304	20/.035"	Brushed Stainless
B7WECPS	304	20/.035"	Polished Stainless
B7WECPB	C260	.045"	Polished Brass
B7WECSB	C260	.045"	Satin Brass
B7WECSA	5052	.050"	Satin Anodized
B7WECDU	5052	.050"	Dark Bronze Anodized

Minimum order: 1 each. All finishes can be combined for quantity pricing.

CRL 12" Mitered Corner Cladding for Heavy-Duty Smoke Baffle Base Shoe

- 90 Degree and 135 Degree Corner Sets in Six Architectural Finishes
- Adhere With Cladding Tape and Silicone Sealant

CRL Mitered Corner Cladding is available in six architectural finishes. Outside legs are 12" (305 mm) in length, and can be secured to the Base Shoe using Cladding Tape and Silicone Sealant. See page 177B for CRL AT234 Cladding Tape, 95CBL Silicone Sealant, and attachment instructions. Sold only in sets of four pieces.

90 DEGREE CORNER CAT. NO.	135 DEGREE CORNER CAT. NO.	GRADE	GA./THK.	FINISH
B7W90BS	B7W135BS	304	20/.035"	Brushed Stainless
B7W90PS	B7W135PS	304	20/.035"	Polished Stainless
B7W90PB	B7W135PB	C260	.045"	Polished Brass
B7W90SB	B7W135SB	C260	.045"	Satin Brass
B7W90SA	B7W135SA	5052	.050"	Satin Anodized
B7W90DU	B7W135DU	5052	.050"	Dark Bronze Anodized

Minimum order: 1 set. All finishes can be combined for quantity pricing.

CRL Roll-In Vinyl

- Black Vinyl Dresses Up Top Opening

CRL Roll-In Vinyl finishes off the installation of the glass panels in wet glaze installations, and also helps secure the glass in Smoke Baffle Base Shoe applications.

CAT. NO.	FOR GLASS SIZE	ROLL LENGTH
RG12100	3/4" (19 mm)	100' (30.5 m)
RG12500	3/4" (19 mm)	500' (152.4 m)

Minimum order: 1 roll.

CRL Cap Rail Vinyl

- Centers the Top of the Glass in B7B Series Heavy-Duty Smoke Baffle Base Shoe
- Black Color Vinyl Protects Glass Edge

CRL Cap Rail Vinyl is applied to the edge of the glass before inserting it into the Smoke Baffle Base Shoe. This centers the glass and protects the edge while holding mounting grommets in place.

1-3/16" (30 mm)

3/4" (19 mm)

CAT. NO.	DESCRIPTION	STOCK LENGTH
GR7PV	Cap Rail Vinyl for 3/4" (19 mm) Glass	120" (3.05 m)

Minimum order: 1 stock length. Stock lengths longer than 98" (2.49 m) must ship common carrier, unless you specify we cut them for U.P.S. A cutting charge will apply. Packing charge added to orders of fewer than five stock lengths.

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smoke-baffles | Search

195B

or enter the Catalog Number for complete product information

TOLL Phone: (800) 421-6144
FREE Fax: (800) 262-3299
From Anywhere in the U.S. or Canada

CRL Blumcraft® SB200 Two Piece Smoke Baffle Base Shoe for 1/2" (12 mm) Glass

Replacement Pins and Grommets
CAT. NO. SB200SP1
(10 Each Per Pack)
Minimum order: 1 pack

BLUMCRAFT®
A DIVISION OF C.R. LAURENCE CO., INC.

USE MONOLITHIC TEMPERED GLASS

- For Use With 1/2" (12 mm) Tempered Glass
- Two Piece Mounting Bracket Permits Easy Glass Panel Replacement by Using Readily Accessible Bolts
- Wet Glazed System Only
- Factory Controlled Bonding of Glass is Also Available

Drilled and Countersunk for 1/2" (12 mm) Flat Head Fasteners @ 12" (305 mm) CTC (Fasteners not Included)

1-7/16" (37 mm)
2-7/8" (73 mm)
Center of 7/8" (22 mm) Diameter Hole in Glass
1-1/8" (29 mm)
3-9/16" (90 mm)
11/16" (17 mm)
Varies

Grommet (Included)
Pin Located 12" (305 mm) on Center (Typ.) (Included)

FS307 Insert (Included)

SHCS14X34 1/4-20 Socket Head Cap Screw at 8" O.C. (see page 190B for replacements)

Expansion Cement (Sold Separately)

3" (76 mm)

The CRL Blumcraft® SB200 Two Piece Smoke Baffle System is not only the newest to our family of smoke screen products, but it is also the most versatile. Designed to provide an invisible glass wall that meets today's fire codes, This product is used to retain smoke in a specific area of a specified square footage.

NOTE: Check your local building codes for regulations pertaining to ceiling area square footage and required depth and height specifications for smoke baffles, partitions or glass curtains.

Step 1
Use Cat. No. 1213X112FHS Flat Head Screws (Sold Separately) for Installation

Step 2

Step 3
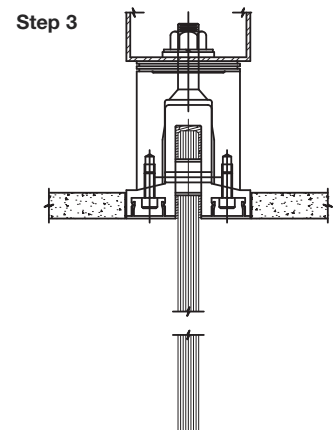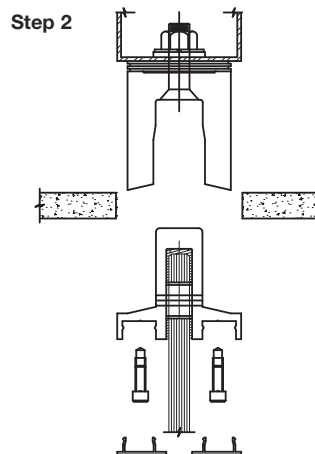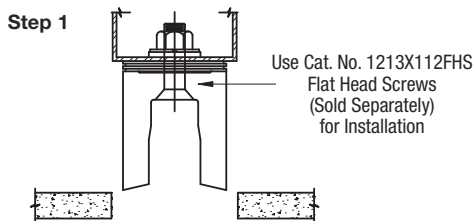
- Two Piece Mounting Bracket Isolates Glass Panels Against the Shock of Building Movement

CAT. NO.	FINISH	STOCK LENGTH	GLASS ATTACHMENT	WEIGHT
SB200SA	Satin Anodized (Class 2)	144" (3.66 m)	Requires 7/8" (22 mm) Holes	99 lbs. (45 kg)
SB200DU	Dark Bronze Anodized (Class 2)	144" (3.66 m)	Requires 7/8" (22 mm) Holes	99 lbs. (45 kg)
SB200MCA	Mill Clear Anodized	144" (3.66 m)	Requires 7/8" (22 mm) Holes	99 lbs. (45 kg)

Minimum order: 1 each. All Base Shoe can be combined for quantity pricing. Must ship common carrier.

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TOLL Phone: (800) 421-6144
FREE Fax: (800) 262-3299
From Anywhere in the U.S. or Canada
CRL US ALUMINUM

CRL Blumcraft® Cladding for SB200 Smoke Baffle Base Shoe

- Adhere With Cladding Tape and Silicone Sealant (See Page 177B)
- Four Architectural Finishes

Base Shoe is sold separately

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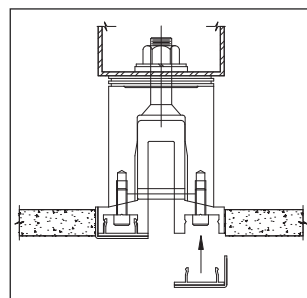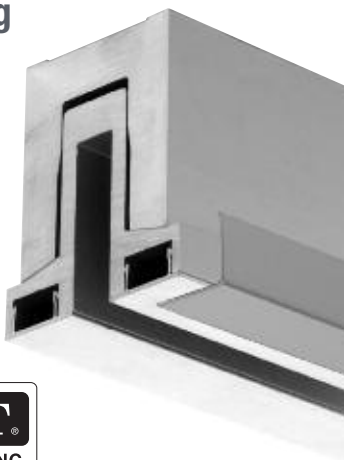
11/16" (17 mm)
1-1/4" (32 mm)

CAT. NO.	GRADE	GA./THK.	LENGTH	FINISH
RG2CBS10	316	20/.035"	120" (3.05 m)	Brushed Stainless
RG2CPS10	316	20/.035"	120" (3.05 m)	Polished Stainless
RG2CPB10	C260	.045"	120" (3.05 m)	Polished Brass
RG2CSB10	C260	.045"	120" (3.05 m)	Satin Brass

Minimum order: 1 each. All finishes can be combined for quantity pricing. Standard stock lengths are 120" (3.05 m). Custom lengths up to 168" (4.26 m) are available on special order. Must ship common carrier.

CRL Blumcraft® 12" Mitered Corner Cladding for SB200 Smoke Baffle Base Shoe

135 Degree
90 Degree

- 90 Degree and 135 Degree Corner Sets
- Adhere With Cladding Tape and Silicone Sealant
- Four Architectural Finishes

CRL Blumcraft® Mitered Corner Cladding for SB200 Series Base Shoe is available in four architectural finishes. Each leg is 12" (305 mm) in length, and can be secured to the Base Shoe using CRL AT234 Cladding Tape and 95CBL Silicone Sealant. See page 177B for CRL Cladding Tape, 95CBL Silicone Sealant, and attachment instructions. Comes four pieces per set.

90 DEGREE CORNER CAT. NO.	135 DEGREE CORNER CAT. NO.	GRADE	GA./THK.	FINISH
RG290BS	RG2135BS	316	20/.035"	Brushed Stainless
RG290PS	RG2135PS	316	20/.035"	Polished Stainless
RG290PB	RG2135PB	C260	.045"	Polished Brass
RG290SB	RG2135SB	C260	.045"	Satin Brass

Minimum order: 1 set. All finishes can be combined for quantity pricing.

CRL Blumcraft® End Caps for SB200 Smoke Baffle Base Shoe

CRL Blumcraft® End Caps are available in six architectural finishes, plus mill aluminum. End Caps are secured to the Base Shoe using two screws (included). One End Cap per package.

- Formed and Shaped to Fit
- Six Architectural Finishes, Plus Mill Aluminum

CAT. NO.	GRADE	GA./THK.	FINISH
RG2ECBS	316	20/.035"	Brushed Stainless △
RG2ECPS	316	20/.035"	Polished Stainless △
RG2ECPB	C260	.045"	Polished Brass △
RG2ECSB	C260	.045"	Satin Brass △
RG2ECSA	6063	.500"	Satin Anodized
RG2ECDU	6063	.500"	Dark Bronze Anodized
RG2ECM	6063	.500"	Mill Aluminum

Minimum order: 1 each. All finishes can be combined for quantity pricing.
△ Cladded Plate only included with stainless or brass finishes.

CRL Blumcraft® FS307 Replacement Snap-In Insert for SB200 Smoke Baffle Base Shoe

- Conceals Bolt Heads in SB200 Two Piece Mounting Shoe
- Easy Snap-In Installation

FS307 Insert

CAT. NO.	GRADE	LENGTH	FINISH
FS307SA	6063	144" (3.65 m)	Satin Anodized
FS307DU	6063	144" (3.65 m)	Dark Bronze Anodized
FS307M	6063	144" (3.65 m)	Mill Aluminum

Minimum order: 1 each. Stock lengths longer than 98" (2.49 m) must ship common carrier, unless you specify we cut them for U.P.S. A cutting charge will apply.

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TOLL Phone: (800) 421-6144
FREE Fax: (800) 262-3299
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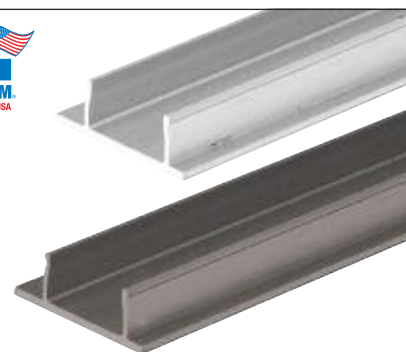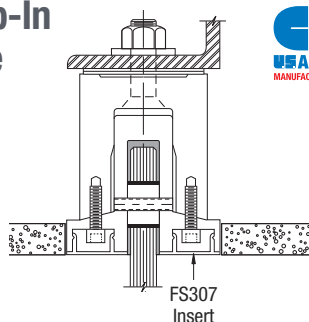
Certifications of Engineer Testing

- Test Results Available for TAPER-LOC® Dry Glaze System, Wet Glaze System, and Smoke Baffle Systems
- Complete Information May Be Downloaded From PDF Files at **crlaurence.com/test-reports**
- Hard Copy Results Also Available With Consulting Engineer's Seal and Signature for a Modest Fee

The Engineering Reports contained on our Engineering and Test Report webpage are based on International Building Code and California Building Code loads specific to the dates on the first page of the report. These generic system reports can be used as a tool by the Professional Engineer or Structural Engineer along with Project Specific Shop Drawings to provide a complete engineering package which typically consist of a Calculations Report based on local codes/project specifications and stamped Shop Drawings.

Calculations in these reports must be verified by the Professional Engineer/Structural Engineer providing the site specific calculations and stamped drawings. IBC Loads in these reports may differ from specifications or jurisdictional codes and need to be verified by the Professional Engineer/Structural Engineer of Record of the Project.

The reports are generic system calculations and not meant to be used as site specific calculations. They have been prepared by a third party Engineer in good faith and generated based on a specific point of time noted by the date on the top right corner of the front page of every report. Running changes occurring in fabrication procedures or the product after this date may not be incorporated into the reports.

CRL-U.S. Aluminum does provide the service of Project Specific Shop Drawings, as well as Project Specific Calculations. For additional information, contact CRL Railing Technical Sales at (800) 421-6144 in the U.S., (877) 421-6144 from Canada, or (323) 588-1281 International, and ask for Ext. 7730.

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TOLL Phone: (800) 421-6144
FREE Fax: (800) 262-3299
From Anywhere in the U.S. or Canada

CRL US ALUMINUM

CRL Cap Rails

- Our Ever Expanding Selection Assures the Right Cap Rail for Any Interior or Exterior Decor

- A Variety of Sizes and Finishes Available to Accommodate 1/2", 5/8", and 3/4" (12, 16, and 19 mm) Thick Monolithic Tempered Glass

- Sizes Also for 9/16", 11/16", 27/32", and 1-1/16" (13.52, 17.52, 21.52, and 25.52 mm) Laminated Tempered Glass

- A Full Line of Accessory Parts and Supplies to Complete the Installation

CRL Cap Rails set the standard for quality. We offer a wide range of profiles and sizes for almost any glass railing application. CRL Cap Rails are available in a variety of architectural finishes, and wood types, as well as accessories to complete the installation. See the complete selection at **crlaurence.com/cap-railing**.

USE MONOLITHIC TEMPERED GLASS or **USE LAMINATED TEMPERED GLASS**

System: 2" (51 mm) Cap Railing

System: 2" (51 mm) Cap Railing

System: 2" (51 mm) Wood Cap Railing

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TOLL Phone: (800) 421-6144
FREE   Fax: (800) 262-3299
From Anywhere in the U.S. or Canada

MORE CHOICES
crlaurence.com/cap-railing

CRL Roll Formed Cap Rails for Monolithic Tempered and Laminated Tempered Glass

- For 1/2" to 27/32" (12 to 21.52 mm) Glass
- 316 Grade Stainless Steel
- 19'-8" (6 m) Stock Lengths Available in Two Architectural Finishes
- Designed for Interior or Exterior Applications
- Connects to Fabricated Corners and End Caps
- Cut to Size, Custom Fabricated Lengths, and Custom Finishes Available on Special Order

Square Profile Also Available - See page 203B

CRL Roll Formed Cap Rails offer a less expensive alternative over our Premium Cap Rails, but still maintain the look and performance required in a glass railing system. Both Cap Rails support a wide range of glass thicknesses by using different Cap Rail Protective Rubber Inserts (see page 201B).

All CRL Roll Formed Cap Rails are made using precision tooling to maintain uniform diameters, allowing for smooth hairline transitions at splices, corners, and end caps. Use only our specified Roll Formed Cap Railing Connector Sleeves, along with Cat. No. 7649 Primer, and Cat. No. 32629 Metal Contact Cement (see page 239B) to achieve a secure and permanent bond at all connections.

NEW!

Linear Hairline Finish

GRRF15 Series
1-1/2" (38 mm) Cap Rail
for 1/2", 9/16", and 5/8"
(12, 13.52, and 16 mm) Glass

GRRF20 Series
1-7/8" (48 mm) Cap Rail
for 1/2", 9/16", 5/8", 11/16",
and 27/32" (12, 13.52, 16,
17.52, and 21.52 mm) Glass

*This dimension is used to calculate the glass size. Add the clearance for Protective Rubber Insert (see page 201B) or visit crlaurence.com for glass deduction templates.

USE MONOLITHIC TEMPERED GLASS   or   USE LAMINATED TEMPERED GLASS

1-1/2" (38 MM) DIAMETER ROLL FORMED CAP RAIL IN 19' 8" (6 M) LENGTHS FOR 1/2" (12 MM) AND 5/8" (16 MM) TEMPERED MONOLITHIC GLASS AND 9/16" (13.52 MM) LAMINATED TEMPERED GLASS

CAT. NO.	GRADE	FINISH	"W" WIDTH	"D" DEPTH	THICKNESS	USE SLEEVE NO.
GRRF15BS	316	Brushed Stainless	7/8" (22 mm)	9/16" (14 mm)	.050" (1 mm)	GRRF15CSS
GRRF15PS	316	Polished Stainless	7/8" (22 mm)	9/16" (14 mm)	.050" (1 mm)	GRRF15CSS

Minimum order: 1 each. Sizes and finishes can be combined for quantity pricing. Must ship common carrier.

1-7/8" (48 MM) DIAMETER ROLL FORMED CAP RAIL IN 19' 8" (6 M) LENGTHS FOR 1/2" (12 MM) AND 5/8" (16 MM) TEMPERED MONOLITHIC GLASS AND 9/16" (13.52 MM), 11/16" (17.52 MM), 27/32" (21.52 MM) LAMINATED TEMPERED GLASS

CAT. NO.	GRADE	FINISH	"W" WIDTH	"D" DEPTH	THICKNESS	USE SLEEVE NO.
GRRF20BS	316	Brushed Stainless	1-1/16" (27 mm)	1/2" (13 mm)	.050" (1 mm)	GRRF20CSS
GRRF20PS	316	Polished Stainless	1-1/16" (27 mm)	1/2" (13 mm)	.050" (1 mm)	GRRF20CSS

Minimum order: 1 each. Sizes and finishes can be combined for quantity pricing. Must ship common carrier.

D*
5/8" (16 mm)
W

D*
1-3/16" (30 mm)
W

NOTE: CRL Roll Formed Cap Rails, End Caps, Corners, Connecting Sleeves and Rubber Inserts are style specific and cannot be used with any other CRL Cap Railing System.
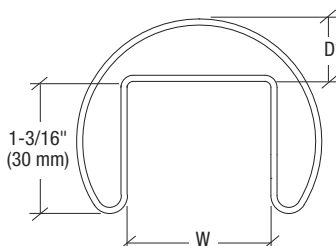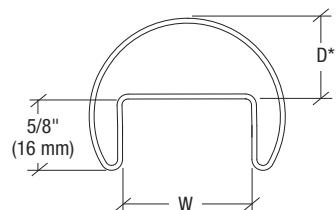
CRL Roll Formed Cap Rail Accessories

Corners	Connector Sleeves	End Caps	Rubber Inserts
See Page 202B	See Page 202B	See Page 201B	See Page 201B

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200B

TOLL Phone: (800) 421-6144
FREE Fax: (800) 262-3299
From Anywhere in the U.S. or Canada

CRL US ALUMINUM

CRL End Caps for Roll Formed Cap Rails

- Formed and Shaped to Fit Roll Formed Cap Rails
- 316 Grade Stainless Steel

NEW!

CRL End Caps easily slip into the Roll Formed Cap Rails. Use of our Cat. No. 7649 Primer and Cat. No. 32629 Metal Contact Cement (see page 239B) is required to achieve a secure and permanent bond. Standard stainless alloy is 316. Fits CRL Roll Formed Cap Rails Only.

FOR 1-1/2" (38 MM) DIAMETER GRRF15 SERIES CAP RAILING

CAT. NO.	GRADE	FINISH
GRRF15ECBS	316	Brushed Stainless
GRRF15ECPS	316	Polished Stainless

Minimum order: 1 each. All End Caps can be combined for quantity pricing

FOR 1-7/8" (48 MM) DIAMETER GRRF20 SERIES CAP RAILING

CAT. NO.	GRADE	FINISH
GRRF20ECBS	316	Brushed Stainless
GRRF20ECPS	316	Polished Stainless

Minimum order: 1 each. All End Caps can be combined for quantity pricing

CRL Stabilizing End Caps for Roll Formed Cap Rails

- Formed and Shaped to Fit Roll Formed Cap Rails
- 316 Grade Stainless Steel

NEW!

CRL Stabilizing End Caps easily slip into our Roll Formed Cap Rails. Use of our Cat. No. 7649 Primer and Cat. No. 32629 Metal Contact Cement (see page 239B) is required to achieve a secure and permanent bond. Standard stainless alloy is 316. Includes: 1/4" x 2" (6 x 51 mm) Lag Screw with 1/4" (6 mm) nylon spacer. Fits CRL Roll Formed Cap Rails Only.

1/8" (3 mm) Clearance at Wall
1/2" (13 mm) to Edge of Glass
1/8" (3 mm)

CAT. NO. SECB1 Lag Screw with Spacer (Included)
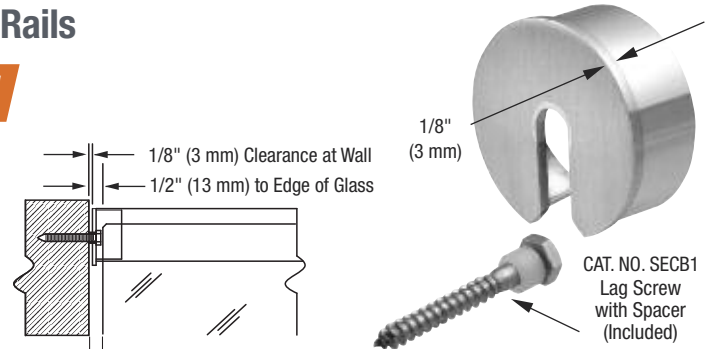
FOR 1-1/2" (38 MM) DIAMETER GRRF15 SERIES CAP RAILING

CAT. NO.	GRADE	FINISH
GRRF15SECBS	316	Brushed Stainless
GRRF15SECPS	316	Polished Stainless

Minimum order: 1 each. All End Caps can be combined for quantity pricing

FOR 1-7/8" (48 MM) DIAMETER GRRF20 SERIES CAP RAILING

CAT. NO.	GRADE	FINISH
GRRF20SECBS	316	Brushed Stainless
GRRF20SECPS	316	Polished Stainless

Minimum order: 1 each. All End Caps can be combined for quantity pricing

CRL Roll Formed Cap Rail Protective Rubber Inserts

NEW!

- Provide a Secure Fit Between Glass and Cap Rail

CRL Cap Rail Protective Rubber Inserts are made of a flexible black rubber designed for our Roll Formed Cap Rails when using 1/2", 5/8", and 3/4" (12, 16, and 19 mm) monolithic tempered and 9/16", 11/16", or 27/32" (13.52, 17.52, or 21.52 mm) laminated tempered glass.

Visit **crlaurence.com** For Glass Deductions Templates
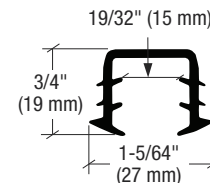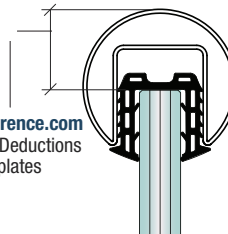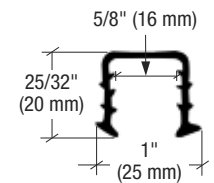
19/32" (15 mm)
3/4" (19 mm)
1-5/64" (27 mm)
CAT. NO. GRRF1515PV

5/8" (16 mm)
25/32" (20 mm)
1" (25 mm)
D*
CAT. NO. GRRF1519PV

7/16" (11 mm)
1-3/32" (28 mm)
1-15/64" (31 mm)
CAT. NO. GRRF2013PV

19/32" (15 mm)
1-3/16" (30 mm)
1-1/8" (29 mm)
CAT. NO. GRRF2017PV

45/64" (18 mm)
1" (25 mm)
1-5/64" (27 mm)
CAT. NO. GRRF2019PV
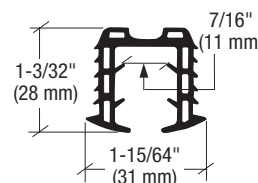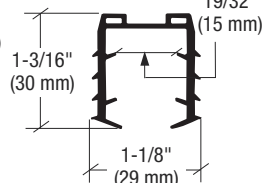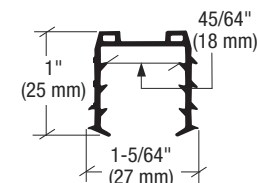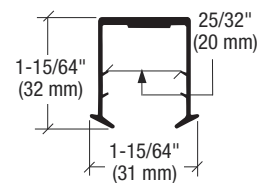
25/32" (20 mm)
1-15/64" (32 mm)
1-15/64" (31 mm)
CAT. NO. GRRF2021PV

FOR 1-1/2" (38 MM) DIAMETER GRRF15 SERIES CAP RAILING

CAT. NO.	USE WITH	ROLL LENGTH
GRRF1515PV	1/2", 5/8" (12 mm, 16 mm) Monolithic and 9/16" (13.52 mm) Laminated Glass	20' (6.1 m)
GRRF1519PV	3/4" (19 mm) Monolithic and 11/16" (17.52 mm) Laminated Glass	20' (6.1 m)

Minimum order: 1 roll. **NOTE:** For glass deductions go to **crlaurence.com/cap-railing**.

FOR 1-7/8" (48 MM) DIAMETER GRRF20 SERIES CAP RAILING

CAT. NO.	USE WITH	ROLL LENGTH
GRRF2013PV	1/2" (12 mm) Monolithic and 9/16" (13.52 mm) Laminated Glass	20' (6.1 m)
GRRF2017PV	5/8" (16 mm) Monolithic and 11/16" (17.52 mm) Laminated Glass	20' (6.1 m)
GRRF2019PV	3/4" (19 mm) Monolithic Glass	20' (6.1 m)
GRRF2021PV	27/32" (21.52 mm) Laminated Glass	20' (6.1 m)

Minimum order: 1 roll. **NOTE:** For glass deductions go to **crlaurence.com/cap-railing**.

go to crlaurence.com to search for
cap-railing   Search
or enter the Catalog Number for complete product information

201B

TOLL Phone: (800) 421-6144
FREE Fax: (800) 262-3299
From Anywhere in the U.S. or Canada

CRL US ALUMINUM

CRL 90 Degree Horizontal Roll Formed Cap Rail Corners

NEW!

- Designed for Interior or Exterior Applications
- 316 Grade Stainless Steel
- Welded, Finished, and Ready to Install
- Two Sizes and Architectural Finishes
- Requires Two Connector Sleeves (Not Included)

CRL Roll Formed Cap Rail Interior slip-fit Horizontal Corners allow for hairline joint assemblies with straight lengths of CRL Roll Formed Cap Rails only. Use of our Cat. No. 7649 Primer and Cat. No. 32629 Metal Contact Cement is required to achieve a secure and permanent bond (see page 239B). Two Roll Form Connector Sleeves are required for use with each corner (see below). Not compatible with any other CRL GRS Cap Rail System.

USE MONOLITHIC TEMPERED GLASS or USE LAMINATED TEMPERED GLASS

- For 1/2" to 27/32" (12 to 21.52 mm) Glass

For Glazing Vinyls and Inserts, See Page 201B.
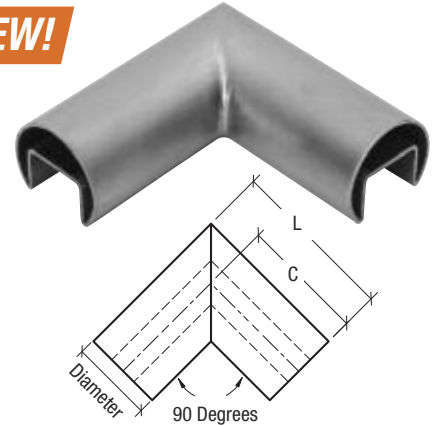
FOR 1-1/2" (38 MM) DIAMETER GRRF15 SERIES CAP RAILING

CAT. NO.	GRADE	FINISH	DIMENSIONS
GRRF15HBS	316	Brushed Stainless	L= 3-11/16" (94 mm)
GRRF15HPS	316	Polished Stainless	C= 2-7/8" (73 mm)

Minimum order: 1 each. All Railing Corners can be combined for quantity pricing.

FOR 1-7/8" (48 MM) DIAMETER GRRF20 SERIES CAP RAILING

CAT. NO.	GRADE	FINISH	DIMENSIONS
GRRF20HBS	316	Brushed Stainless	L= 3-7/8" (98 mm)
GRRF20HPS	316	Polished Stainless	C= 2-7/8" (73 mm)

Minimum order: 1 each. All Railing Corners can be combined for quantity pricing.

CRL 135 Degree Horizontal Roll Formed Cap Rail Corners

- 316 Grade Stainless Steel
- Welded, Finished, and Ready to Install
- Two Sizes and Architectural Finishes
- Requires Two Connector Sleeves (Not Included)

NEW!

- For 1/2" to 27/32" (12 to 21.52 mm) Glass

CRL Roll Formed Cap Rail Interior slip-fit Horizontal Corners allow for hairline joint assemblies with straight lengths of CRL Roll Formed Cap Rails only. Use of our Cat. No. 7649 Primer and Cat. No. 32629 Metal Contact Cement is required to achieve a secure and permanent bond (see page 239B). Two Roll Form Connector Sleeves are required for use with each corner (see below). Not compatible with any other CRL GRS Cap Rail System.
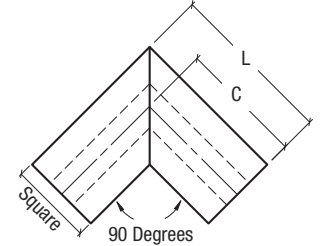
For Glazing Vinyls and Inserts, See Page 201B.

FOR 1-1/2" (38 MM) DIAMETER GRRF15 SERIES CAP RAILING

CAT. NO.	GRADE	FINISH	DIMENSIONS
GRRF15H3BS	316	Brushed Stainless	L= 2-1/2" (64 mm)
GRRF15H3PS	316	Polished Stainless	C= 2-1/8" (54 mm)

Minimum order: 1 each. All Railing Corners can be combined for quantity pricing.

FOR 1-7/8" (48 MM) DIAMETER GRRF20 SERIES CAP RAILING

CAT. NO.	GRADE	FINISH	DIMENSIONS
GRRF20H3BS	316	Brushed Stainless	L= 2-5/8" (67 mm)
GRRF20H3PS	316	Polished Stainless	C= 2-1/8" (54 mm)

Minimum order: 1 each. All Railing Corners can be combined for quantity pricing.

CRL Connector Sleeves for Roll Formed Cap Railings, Cap Rail Corners, and Hand Railings

- Formed, Shaped to Fit, and Ready to Install
- Provides Proper Alignment at Splices

NEW!

ONLINE *ARCHITECTURAL RESOURCES*

CRL Connector Sleeves are used to connect and provide proper alignment between railing splices and railing-to-corner splices. Connector Sleeves are 5" (127 mm) long, and must be compressed to fit inside the Cap Railing. Use of our Cat. No. 7649 Primer and Cat. No. 32629 Metal Contact Cement (see page 239B) is required to achieve a secure and permanent bond.

CAT. NO.	GRADE	FOR USE WITH
GRRF15CSS	316	GRFF15 Series Cap Rails and Corners
GRRF20CSS	316	GRFF20 Series Cap Rails and Corners

Minimum order: 1 each. All Connector Sleeves can be combined for quantity pricing.

IMPORTANT INSTALLATION NOTE:
Always use Connector Sleeves made of the same metal as the Cap Rail, Cap Rail Corner, or Hand Rail metal to be joined.

go to crlaurence.com to search for

cap-railing [Search]

or enter the Catalog Number for complete product information

202B

TOLL Phone: (800) 421-6144
FREE Fax: (800) 262-3299
From Anywhere in the U.S. or Canada

CRL US ALUMINUM

CRL Roll Formed Square Cap Rails for Monolithic Tempered and Laminated Tempered Glass

NEW!

- For 1/2" to 27/32" (12 to 21.52 mm) Glass
- 316 Grade Stainless Steel
- 19'-8" (6 m) Stock Lengths Available in Two Architectural Finishes
- Designed for Interior or Exterior Applications
- Connects to Fabricated Corners and End Caps
- Cut to Size, Custom Fabricated Lengths, and Custom Finishes Available on Special Order

Linear Hairline Finish

SRF15 Series
1-1/2" (38 mm) Square Cap Rail
for 1/2", 9/16", and 5/8"
(12, 13.52, and 16 mm) Glass

CRL Roll Formed Square Cap Rails offer a less expensive alternative over our Premium Cap Rails, but still maintain the look and performance required in a glass railing system. Cap Rails support a wide range of glass thicknesses by using different Cap Rail Protective Rubber Inserts (see page 204B).

All CRL Roll Formed Square Cap Rails are made using precision tooling to maintain uniform squareness, allowing for smooth hairline transitions at splices, corners, and end caps. Use only our specified Roll Formed Square Cap Railing Connector Sleeves, along with Cat. No. 7649 Primer, and Cat. No. 32629 Metal Contact Cement (see page 239B) to achieve a secure and permanent bond at all connections.

SRF20 Series
2" (51 mm) Square Cap Rail
for 1/2", 9/16", 5/8", 11/16",
and 27/32" (12, 13.52, 16,
17.52, and 21.52 mm) Glass

USE MONOLITHIC TEMPERED GLASS or **USE LAMINATED TEMPERED GLASS**

*This dimension is used to calculate the glass size. Add the clearance for Protective Rubber Insert (see page 204B) or visit crlaurence.com for glass deduction templates.

1-1/2" (38 mm)
11/16" (18 mm)
15/16" (24 mm)
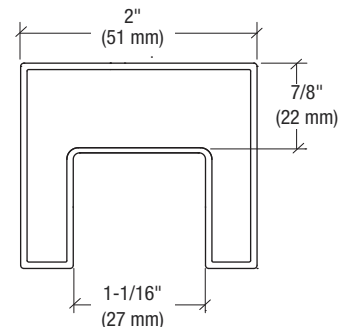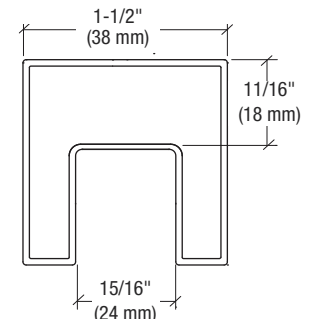
1-1/2" (38 MM) SQUARE ROLL FORMED CAP RAIL IN 19' 8" (6 M) LENGTHS FOR 1/2" (12 MM) AND 5/8" (16 MM) TEMPERED MONOLITHIC GLASS AND 9/16" (13.52 MM) LAMINATED TEMPERED GLASS

CAT. NO.	GRADE	FINISH	THICKNESS	USE SLEEVE NO.
SRF15BS	316	Brushed Stainless	.050" (1.3 mm)	GRRF15CSS
SRF15PS	316	Polished Stainless	.050" (1.3 mm)	GRRF15CSS

Minimum order: 1 each. Sizes and finishes can be combined for quantity pricing. Must ship common carrier.

2" (51 MM) SQUARE ROLL FORMED CAP RAIL IN 19' 8" (6 M) LENGTHS FOR 1/2" (12 MM) AND 5/8" (16 MM) TEMPERED MONOLITHIC GLASS AND 9/16" (13.52 MM), 11/16" (17.52 MM), 27/32" (21.52 MM) LAMINATED TEMPERED GLASS

CAT. NO.	GRADE	FINISH	THICKNESS	USE SLEEVE NO.
SRF20BS	316	Brushed Stainless	.050" (1.3 mm)	GRRF20CSS
SRF20PS	316	Polished Stainless	.050" (1.3 mm)	GRRF20CSS

Minimum order: 1 each. Sizes and finishes can be combined for quantity pricing. Must ship common carrier.

2" (51 mm)
7/8" (22 mm)
1-1/16" (27 mm)

NOTE: CRL Roll Formed Cap Rails, End Caps, Corners, Connecting Sleeves and Rubber Inserts are style specific and cannot be used with any other CRL Cap Railing System.

CRL Roll Formed Square Cap Rail Accessories

Corners

See Page 205B
and online at crlaurence.com/cap-railing

Connector Sleeves

See Page 205B

End Caps
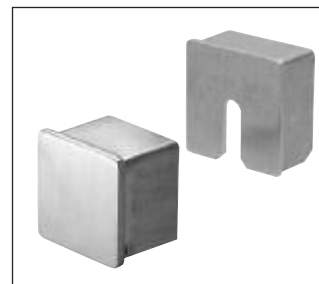
See Page 204B

Rubber Inserts

See Page 204B

go to crlaurence.com to search for
cap-railing   Search
or enter the Catalog Number for complete product information

203B

TOLL Phone: (800) 421-6144
FREE Fax: (800) 262-3299
From Anywhere in the U.S. or Canada

CRL US ALUMINUM

CRL End Caps for Roll Formed Square Cap Rails

NEW!

- Formed and Shaped to Fit Roll Formed Square Cap Rails
- 316 Grade Stainless Steel
- Two Architectural Finishes

CRL Square End Caps easily slip into the Roll Formed Square Cap Rails. Use of our Cat. No. 7649 Primer and Cat. No. 32629 Metal Contact Cement (see page 239B) is required to achieve a secure and permanent bond. Standard stainless is 316 grade. Fits CRL Roll Formed Square Cap Rails Only.

FOR 1-1/2" (38 MM) SRF15 SERIES SQUARE CAP RAILING

CAT. NO.	GRADE	FINISH
SRF15ECBS	316	Brushed Stainless
SRF15ECPS	316	Polished Stainless

Minimum order: 1 each. All End Caps can be combined for quantity pricing

FOR 2" (51 MM) SRF20 SERIES SQUARE CAP RAILING

CAT. NO.	GRADE	FINISH
SRF20ECBS	316	Brushed Stainless
SRF20ECPS	316	Polished Stainless

Minimum order: 1 each. All End Caps can be combined for quantity pricing

CRL Stabilizing End Caps for Roll Formed Square Cap Rails

NEW!

- Formed and Shaped to Fit Roll Formed Square Cap Rails
- 316 Grade Stainless Steel
- Two Architectural Finishes

CRL Square Stabilizing End Caps easily slip into our Roll Formed Square Cap Rails. Use of our Cat. No. 7649 Primer and Cat. No. 32629 Metal Contact Cement (see page 239B) is required to achieve a secure and permanent bond. Standard stainless is 316 grade. Includes: 1/4" (6 mm) x 2" (51 mm) Lag Screw with 1/4" (6 mm) nylon spacer. Fits CRL Roll Formed Square Cap Rails Only.

3/16" (4 mm)

1/8" (3 mm) Clearance at Wall
1/2" (13 mm) to Edge of Glass

CAT. NO. SECB1
Lag Screw with Spacer
(Included)
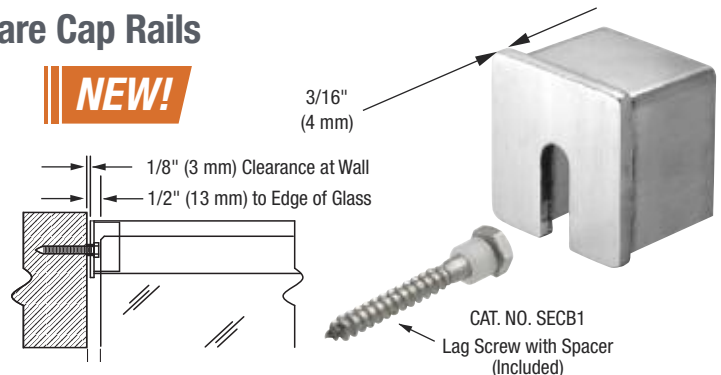
FOR 1-1/2" (38 MM) SRF15 SERIES SQUARE CAP RAILING

CAT. NO.	GRADE	FINISH
SRF15SECBS	316	Brushed Stainless
SRF15SECPS	316	Polished Stainless

Minimum order: 1 each. All End Caps can be combined for quantity pricing

FOR 2" (51 MM) SRF20 SERIES SQUARE CAP RAILING

CAT. NO.	GRADE	FINISH
SRF20SECBS	316	Brushed Stainless
SRF20SECPS	316	Polished Stainless

Minimum order: 1 each. All End Caps can be combined for quantity pricing

CRL Roll Formed Square Cap Rail Protective Rubber Inserts

NEW!

- Provides a Secure Fit Between Glass and Cap Rail

CRL Square Cap Rail Protective Rubber Inserts are made of a flexible black rubber designed for our Roll Formed Square Cap Rails when using 1/2", 5/8", and 3/4" (12, 16, and 19 mm) monolithic tempered and 9/16", 11/16", or 27/32" (13.52, 17.52, or 21.52 mm) laminated tempered glass.

Visit **crlaurence.com**
For Glass Deduction
and Templates

1/2" (13 mm)
1-1/8" (29 mm)
1-1/8" (29 mm)
CAT. NO. SRF1513PV

7/16" (11 mm)
1-3/32" (28 mm)
1-15/64" (31 mm)
CAT. NO. GRRF2013PV

19/32" (15 mm)
1-3/16" (30 mm)
1-1/8" (29 mm)
CAT. NO. GRRF2017PV

45/64" (18 mm)
1" (25 mm)
1-5/64" (27 mm)
CAT. NO. GRRF2019PV

25/32" (20 mm)
1-15/64" (32 mm)
1-7/32" (31 mm)
CAT. NO. GRRF2021PV
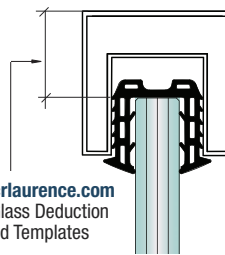
FOR 1-1/2" (38 MM) SRF15 SERIES SQUARE CAP RAILING

CAT. NO.	USE WITH	ROLL LENGTH
SRF1513PV	1/2", 5/8" (12 mm, 16 mm) Monolithic and 9/16" (13.52 mm) Laminated Glass	20' (6.1 m)

Minimum order: 1 roll. **NOTE:** For glass deductions go to **crlaurence.com/cap-railing**.

FOR 2" (51 MM) SRF20 SERIES SQUARE CAP RAILING

CAT. NO.	USE WITH	ROLL LENGTH
GRRF2013PV	1/2" (12 mm) Monolithic and 9/16" (13.52 mm) Laminated Glass	20' (6.1 m)
GRRF2017PV	5/8" (16 mm) Monolithic and 11/16" (17.52 mm) Laminated Glass	20' (6.1 m)
GRRF2019PV	3/4" (19 mm) Monolithic Glass	20' (6.1 m)
GRRF2021PV	27/32" (21.52 mm) Laminated Glass	20' (6.1 m)

Minimum order: 1 roll. **NOTE:** For glass deductions go to **crlaurence.com/cap-railing**.

go to crlaurence.com to search for
cap-railing   Search
or enter the Catalog Number for complete product information

204B

TOLL Phone: (800) 421-6144
FREE Fax: (800) 262-3299
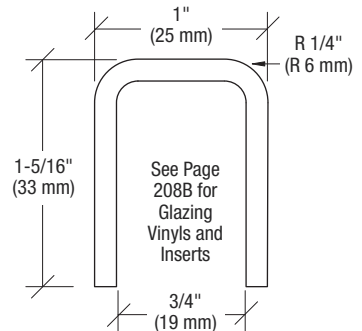From Anywhere in the U.S. or Canada

CRL US ALUMINUM

CRL 90 Degree Horizontal Roll Formed Square Cap Rail Corners

- Designed for Interior or Exterior Applications
- 316 Grade Stainless Steel
- Welded, Finished, and Ready to Install
- Two Sizes and Architectural Finishes
- Requires Two Connector Sleeves (Not Included)

USE MONOLITHIC TEMPERED GLASS or **USE LAMINATED TEMPERED GLASS**

CRL Square Roll Formed Cap Rail Interior slip-fit Horizontal Corners allow for hairline joint assemblies with straight lengths of CRL Square Roll Formed Cap Rails only. Use of our Cat. No. 7649 Primer and Cat. No. 32629 Metal Contact Cement is required to achieve a secure and permanent bond (see page 239B). Two Square Roll Form Connector Sleeves are required for use with each corner (see below). Not compatible with any other CRL GRS Cap Rail System.

- For 1/2" to 27/32" (12 to 21.52 mm) Glass

NEW!

See page 204B for Glazing Vinyls and Inserts

FOR 1-1/2" (38 MM) SQUARES SRF15 SERIES CAP RAILING

CAT. NO.	GRADE	FINISH	DIMENSIONS
SRF15HBS	316	Brushed Stainless	L= 4-1/8" (104 mm)
SRF15HPS	316	Polished Stainless	C= 3-3/16" (82 mm)

Minimum order: 1 each. All Railing Corners can be combined for quantity pricing.

FOR 2" (51 MM) SQUARE SRF20 SERIES CAP RAILING

CAT. NO.	GRADE	FINISH	DIMENSIONS
SRF20HBS	316	Brushed Stainless	L= 4-3/16" (107 mm)
SRF20HPS	316	Polished Stainless	C= 3-3/16" (82 mm)

Minimum order: 1 each. All Railing Corners can be combined for quantity pricing.

CRL 135 Degree Horizontal Roll Formed Square Cap Rail Corners

- 316 Grade Stainless Steel
- Welded, Finished, and Ready to Install
- Two Sizes and Architectural Finishes
- Requires Two Connector Sleeves (Not Included)

NEW!

CRL Square Roll Formed Cap Rail Interior slip-fit Horizontal Corners allow for hairline joint assemblies with straight lengths of CRL Square Roll Formed Cap Rails only. Use of our Cat. No. 7649 Primer and Cat. No. 32629 Metal Contact Cement is required to achieve a secure and permanent bond (see page 239B). Two Square Roll Form Connector Sleeves are required for use with each corner (see below). Not compatible with any other CRL GRS Cap Rail System.

- For 1/2" to 27/32" (12 to 21.52 mm) Glass

See page 204B for Glazing Vinyls and Inserts
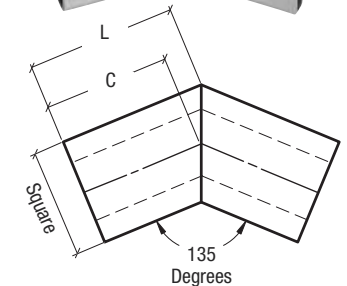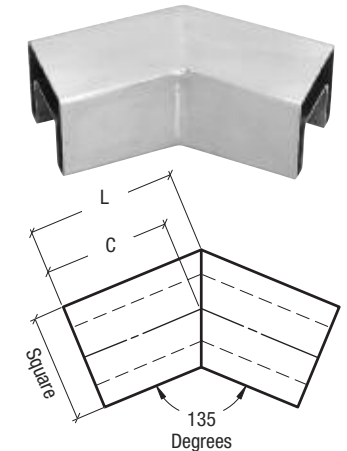
FOR 1-1/2" (38 MM) SQUARE SRF15 SERIES CAP RAILING

CAT. NO.	GRADE	FINISH	DIMENSIONS
SRF15H3BS	316	Brushed Stainless	L= 2-11/16" (69 mm)
SRF15H3PS	316	Polished Stainless	C= 2-7/16" (62 mm)

Minimum order: 1 each. All Railing Corners can be combined for quantity pricing.

FOR 2" (51 MM) SQUARE SRF20 SERIES CAP RAILING

CAT. NO.	GRADE	FINISH	DIMENSIONS
SRF20H3BS	316	Brushed Stainless	L= 2-7/8" (72 mm)
SRF20H3PS	316	Polished Stainless	C= 2-7/16" (62 mm)

Minimum order: 1 each. All Railing Corners can be combined for quantity pricing.

CRL Connector Sleeves for Roll Formed Square Cap Railings, Cap Rail Corners, and Hand Railings

- Formed, Shaped to Fit, and Ready to Install
- Provides Proper Alignment at Splices

NEW!

CRL Square Connector Sleeves are used to connect and provide proper alignment between railing splices and railing-to-corner splices. Connector Sleeves are 5" (127 mm) long, and must be compressed to fit inside the Cap Railing. Use of our Cat. No. 7649 Primer and Cat. No. 32629 Metal Contact Cement (see page 239B) is required to achieve a secure and permanent bond.

CAT. NO.	GRADE	FOR USE WITH
SRF15CSS	316	SRF15 Series Cap Rails and Corners
SRF20CSS	316	SRF20 Series Cap Rails and Corners

Minimum order: 1 each. All Connector Sleeves can be combined for quantity pricing.

IMPORTANT INSTALLATION NOTE:
Always use Connector Sleeves made of the same metal as the Cap Rail, Cap Rail Corner, or Hand Rail metal to be joined.

go to crlaurence.com to search for

cap-railing Search

205B

TOLL Phone: (800) 421-6144
FREE Fax: (800) 262-3299
From Anywhere in the U.S. or Canada

or enter the Catalog Number for complete product information

CRL US ALUMINUM

CRL Crisp Corner Low Profile 11 Gauge Cap Railing for 1/2", 9/16" or 5/8" (12, 13.52 or 16 mm) Glass

- Designed for Use as a Top Rail for Guard Rail Applications
- Secures Glass Panels Together
- Connects to Fabricated Corners and End Caps

USE MONOLITHIC TEMPERED GLASS
or
USE LAMINATED TEMPERED GLASS

CRL Crisp Corner Low Profile Cap Rail is made from 11 gauge stainless steel, and is designed to protect the edge of the glass and secure glass panels together.

Linear Hairline Finish

R 1/8" (R 3 mm)
1" (25 mm)
1-5/16" (33 mm)
See Page 208B for Glazing Vinyls and Inserts
3/4" (19 mm)

CAT. NO.	GRADE	FINISH	"W" WIDTH	"H" HEIGHT	THICKNESS	LENGTH
GRLC10BS	304	Brushed Stainless	1" (25 mm)	1-5/16" (33 mm)	11 Gauge 1/8" (3 mm)	120" (3.05 m)
GRLC10BS12	304	Brushed Stainless	1" (25 mm)	1-5/16" (33 mm)	11 Gauge 1/8" (3 mm)	144" (3.65 m)
GRLC10BS6	316	Brushed Stainless	1" (25 mm)	1-5/16" (33 mm)	11 Gauge 1/8" (3 mm)	120" (3.05 m)
GRLC10PS	304	Polished Stainless	1" (25 mm)	1-5/16" (33 mm)	11 Gauge 1/8" (3 mm)	120" (3.05 m)
GRLC10PS12	304	Polished Stainless	1" (25 mm)	1-5/16" (33 mm)	11 Gauge 1/8" (3 mm)	144" (3.65 m)
GRLC10PS6	316	Polished Stainless	1" (25 mm)	1-5/16" (33 mm)	11 Gauge 1/8" (3 mm)	120" (3.05 m)

Minimum order: 1 each. Finishes can be combined for quantity pricing. Must ship common carrier.

CRL Crisp Corner 90 Degree Horizontal Low Profile 11 Gauge Cap Railing Corners for 1/2", 9/16" or 5/8" (12, 13.52 or 16 mm) Glass

- Two Finishes Available
- Ready to Install
- Welded and Finished

Slip-fit 90 Degree Horizontal Corners for 1/2", 9/16" or 5/8" (12, 13.52 or 16 mm) thick glass allow for hairline joint assemblies with straight lengths of CRL 11 Gauge Cap Railing. Use of our Cat. No. 7649 Primer and Cat. No. 32629 Metal Contact Cement (see page 239B) is required to achieve a secure and permanent bond. Two Connector Sleeves are required for use with each Corner (see page 208B).

L
C
90 Degrees

R 1/8" (R 3 mm)
1" (25 mm)
1-5/16" (33 mm)
See Page 208B for Glazing Vinyls and Inserts
3/4" (19 mm)

CAT. NO.	GRADE	FINISH	FITS CAP RAIL NO.	DIMENSIONS
GRLC10HBS	304	Brushed Stainless	GRLC10BS	L = 6" (152 mm)
GRLC10HPS	304	Polished Stainless	GRLC10PS	C = 5-1/2" (140 mm)
GRLC10HBS6	316	Brushed Stainless	GRLC10BS6	
GRLC10HPS6	316	Polished Stainless	GRLC10PS6	

Minimum order: 1 each. All Railing Corners can be combined for quantity pricing.

CRL Crisp Corner 135 Degree Horizontal Low Profile 11 Gauge Cap Railing Corners for 1/2", 9/16" or 5/8" (12, 13.52 or 16 mm) Glass

- Two Finishes Available
- Ready to Install
- Welded and Finished

Slip-fit 135 Degree Horizontal Corners for 1/2", 9/16" or 5/8" (12, 13.52 or 16 mm) thick glass allow for hairline joint assemblies with straight lengths of CRL 11 Gauge Cap Railing. Use of our Cat. No. 7649 Primer and Cat. No. 32629 Metal Contact Cement (see page 239B) is required to achieve a secure and permanent bond. Two Connector Sleeves are required for use with each Corner (see page 208B).

L
C
135 Degrees

R 1/8" (R 3 mm)
1" (25 mm)
1-5/16" (33 mm)
See Page 208B for Glazing Vinyls and Inserts
3/4" (19 mm)

CAT. NO.	GRADE	FINISH	FITS CAP RAIL NO.	DIMENSIONS
GRLC10H3BS	304	Brushed Stainless	GRLC10BS	L = 6" (152 mm)
GRLC10H3PS	304	Polished Stainless	GRLC10PS	C = 5-1/2" (140 mm)
GRLC10H3BS6	316	Brushed Stainless	GRLC10BS6	
GRLC10H3PS6	316	Polished Stainless	GRLC10PS6	

Minimum order: 1 each. All Railing Corners can be combined for quantity pricing.
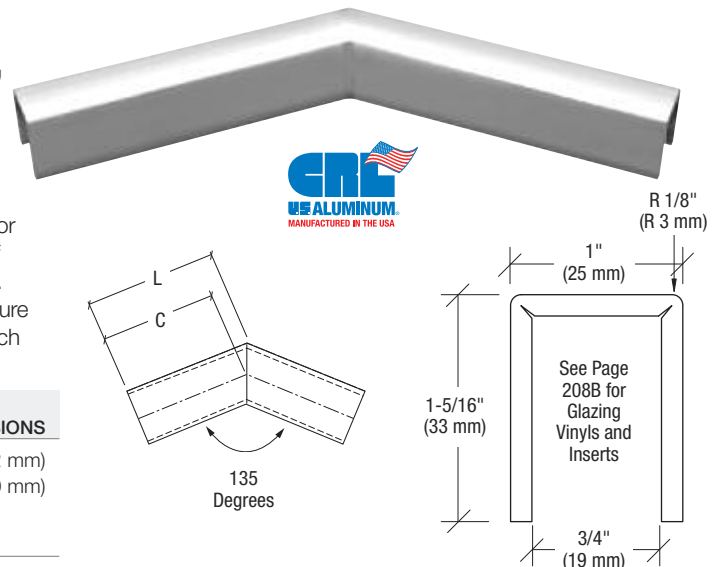
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206B

TOLL Phone: (800) 421-6144
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From Anywhere in the U.S. or Canada

CRL US ALUMINUM

CRL Low Profile 11 Gauge Cap Railing for 1/2", 9/16", or 5/8" (12, 13.52, or 16 mm) Glass

- Designed for Use as a Top Rail for Guard Rail Applications
- Secures Glass Panels Together
- Connects to Fabricated Corners and End Caps

USE MONOLITHIC TEMPERED GLASS

or

USE LAMINATED TEMPERED GLASS

CRL Low Profile Cap Rail is made from 11 gauge stainless steel, and is designed to protect the edge of the glass and secure glass panels together.
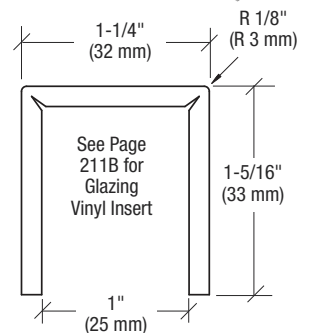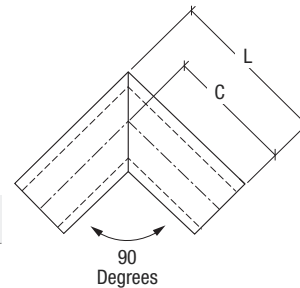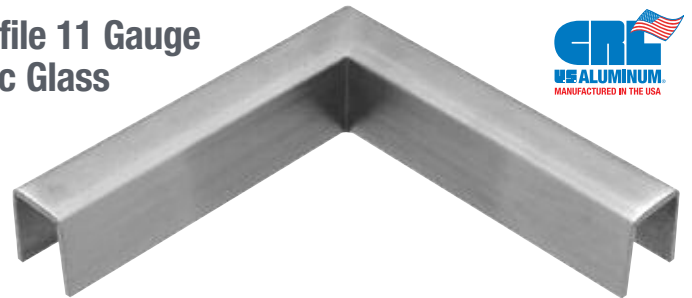
Linear Hairline Finish

1" (25 mm)
R 1/4" (R 6 mm)
1-5/16" (33 mm)
See Page 208B for Glazing Vinyls and Inserts
3/4" (19 mm)

CAT. NO.	GRADE	FINISH	WIDTH	HEIGHT	THICKNESS	LENGTH
GRL10BS	304	Brushed Stainless	1" (25 mm)	1-5/16" (33 mm)	11 Gauge 1/8" (3 mm)	120" (3.05 m)
GRL10BS14	304	Brushed Stainless	1" (25 mm)	1-5/16" (33 mm)	11 Gauge 1/8" (3 mm)	168" (4.26 m)
GRL10BS6	316	Brushed Stainless	1" (25 mm)	1-5/16" (33 mm)	11 Gauge 1/8" (3 mm)	120" (3.05 m)
GRL10PS	304	Polished Stainless	1" (25 mm)	1-5/16" (33 mm)	11 Gauge 1/8" (3 mm)	120" (3.05 m)
GRL10PS14	304	Polished Stainless	1" (25 mm)	1-5/16" (33 mm)	11 Gauge 1/8" (3 mm)	168" (4.26 m)
GRL10PS6	316	Polished Stainless	1" (25 mm)	1-5/16" (33 mm)	11 Gauge 1/8" (3 mm)	120" (3.05 m)

Minimum order: 1 each. Finishes can be combined for quantity pricing. Must ship common carrier.

CRL 90 Degree Horizontal Low Profile 11 Gauge Cap Railing Corners for 1/2", 9/16", or 5/8" (12, 13.52, or 16 mm) Glass

- Two Finishes Available
- Ready to Install
- Welded and Finished

Slip-fit 90 Degree Horizontal Corners for 1/2", 9/16", or 5/8" (12, 13.52, or 16 mm) thick glass allow for hairline joint assemblies with straight lengths of CRL 11 Gauge Cap Railing. Use our Cat. No. 7649 Primer and Cat. No. 32629 Metal Contact Cement (see page 239B) to achieve a secure and permanent bond. Two Connector Sleeves are required for use with each Corner (see page 208B).

L
C
90 Degrees

1" (25 mm)
R 1/4" (R 6 mm)
1-5/16" (33 mm)
See Page 208B for Glazing Vinyls and Inserts
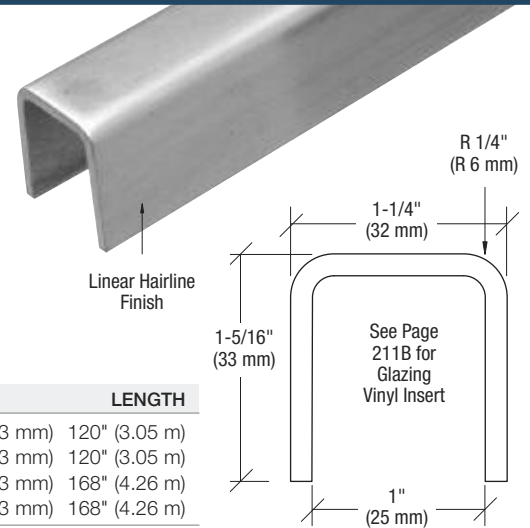3/4" (19 mm)

CAT. NO.	GRADE	FINISH	FITS CAP RAIL NO.	DIMENSIONS
GRL10HBS	304	Brushed Stainless	GRL10BS	L = 6" (152 mm)
GRL10HPS	304	Polished Stainless	GRL10PS	C = 5-1/2" (140 mm)
GRL10HBS6	316	Brushed Stainless	GRL10BS6	
GRL10HPS6	316	Polished Stainless	GRL10PS6	

Minimum order: 1 each. All Railing Corners can be combined for quantity pricing.

CRL 135 Degree Horizontal Low Profile 11 Gauge Cap Railing Corners for 1/2", 9/16", or 5/8" (12, 13.52, or 16 mm) Glass

- Two Finishes Available
- Ready to Install
- Welded and Finished

Slip-fit 135 Degree Horizontal Corners for 1/2", 9/16", or 5/8" (12, 13.52, or 16 mm) thick glass allow for hairline joint assemblies with straight lengths of CRL 11 Gauge Cap Railing. Use our Cat. No. 7649 Primer and Cat. No. 32629 Metal Contact Cement (see page 239B) to achieve a secure and permanent bond. Two Connector Sleeves are required for use with each Corner (see page 208B).

L
C
135 Degrees

1" (25 mm)
R 1/4" (R 6 mm)
1-5/16" (33 mm)
See Page 208B for Glazing Vinyls and Inserts
3/4" (19 mm)

CAT. NO.	GRADE	FINISH	FITS CAP RAIL NO.	DIMENSIONS
GRL10H3BS	304	Brushed Stainless	GRL10BS	L = 6" (152 mm)
GRL10H3PS	304	Polished Stainless	GRL10PS	C = 5-1/2" (140 mm)
GRL10H3BS6	316	Brushed Stainless	GRL10BS6	
GRL10H3PS6	316	Polished Stainless	GRL10PS6	

Minimum order: 1 each. All Railing Corners can be combined for quantity pricing.

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TOLL Phone: (800) 421-6144
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CRL US ALUMINUM

CRL End Caps for Low Profile 11 Gauge Cap Railing
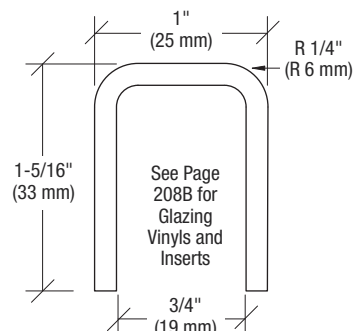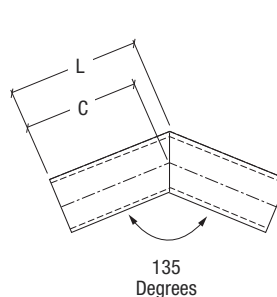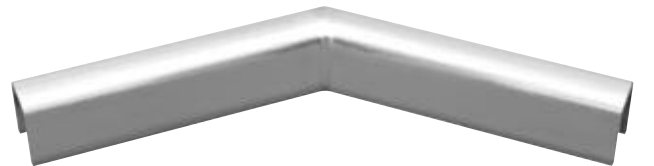
- Formed and Shaped to Fit Both of Our 11 Gauge Cap Railings
- Available in Brushed and Polished Stainless Finishes
- 316 Grade Stainless

USE MONOLITHIC TEMPERED GLASS

Low Profile

Crisp Corner

This CRL End Cap easily slips into our Low Profile 11 Gauge Cap Railing. Use our Cat. No. 7649 Primer and Cat. No. 32629 Metal Contact Cement (see page 239B) to achieve a secure and permanent bond. 316 grade stainless steel.

CAT. NO.	CAP RAIL TYPE	GRADE	FINISH	FITS CAP RAIL NO.
GRL10ECBS	Low Profile	316	Brushed Stainless	GRL10BS
GRL10ECPS	Low Profile	316	Polished Stainless	GRL10PS
GRLC10ECBS	Crisp Corner	316	Brushed Stainless	GRLC10BS
GRLC10ECPS	Crisp Corner	316	Polished Stainless	GRLC10PS

Minimum order: 1 each. All End Caps can be combined for quantity pricing. Must ship common carrier.

CRL Stabilizing End Caps for Low Profile 11 Gauge Cap Railing

- Formed and Shaped to Fit Both of Our 11 Gauge Cap Railings
- Available in Brushed and Polished Stainless Finishes
- 316 Grade Stainless

USE MONOLITHIC TEMPERED GLASS

CRL Stabilizing End Caps easily slip into our Low Profile 11 Gauge Cap Railing. Use our Cat. No. 7649 Primer and Cat. No. 32629 Metal Contact Cement (see page 239B) to achieve a secure and permanent bond. Stainless alloy is 316. Includes: 1/4" x 2" (6 x 51 mm) Lag Screw with 1/4" (6 mm) Nylon Spacer.

CAT. NO. SECB1 Lag Screw with Spacer (Included)

1/8" (3 mm) Clearance at Wall

1/2" (13 mm) to Edge of Glass
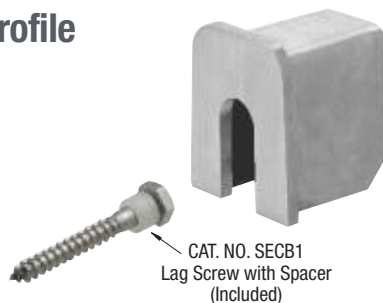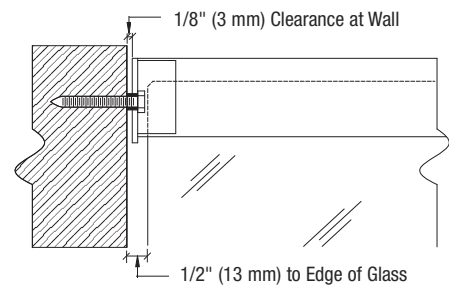
CAT. NO.	CAP RAIL TYPE	GRADE	FINISH	FITS CAP RAIL NO.
GRL10SECBS	Low Profile	316	Brushed Stainless	GRL10BS
GRL10SECPS	Low Profile	316	Polished Stainless	GRL10PS
GRLC10SECBS	Crisp Corner	316	Brushed Stainless	GRLC10BS
GRLC10SECPS	Crisp Corner	316	Polished Stainless	GRLC10PS

Minimum order: 1 each. All End Caps can be combined for quantity pricing. Must ship common carrier.

CRL Connector Sleeves for Low Profile 11 Gauge and Crisp Corner Cap Railing

- Provide Proper Alignment Between Railing Splices
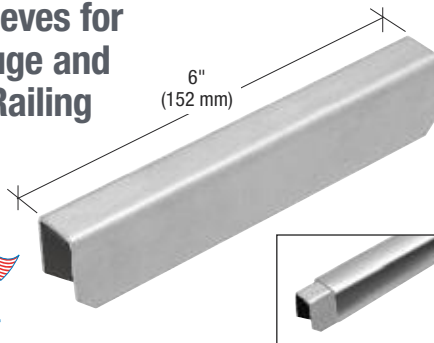
USE MONOLITHIC TEMPERED GLASS

6" (152 mm)

These CRL Connector Sleeves are used to connect and provide proper alignment between Cap Rail splices and corner splices. Connector Sleeves easily slip into the Cap Railing without compression. Use our Cat. No. 7649 Primer and Cat. No. 32629 Metal Contact Cement (see page 239B) to bond the splice joint.

3/4" (19 mm)

1-3/16" (30 mm)
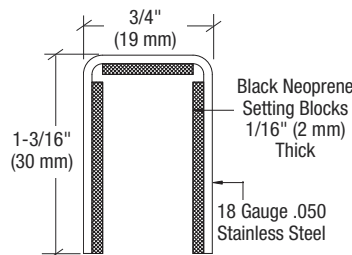
Black Neoprene Setting Blocks 1/16" (2 mm) Thick

18 Gauge .050 Stainless Steel

CAT. NO.	MATERIAL	FOR USE WITH
GRL10CSS	Stainless Steel	GRL10BS/GRL10PS Cap Rails GRLC10BS/GRLC10PS Cap Rails and all GRL10H/GRLC10H Cap Rail Corners

Minimum order: 1 each.

CRL Cap Rail Vinyl and Rubber Inserts

GR5PV — 1-3/16" (30 mm), 1/2" (13 mm)

LR56PV — 13/32" (10 mm), 1-1/8" (29 mm), 3/4" (19 mm)

GR6PV — 1-1/8" (29 mm), 3/4" (19 mm)
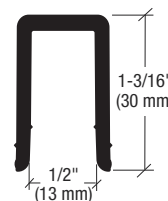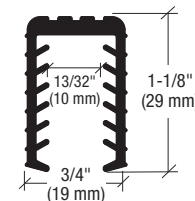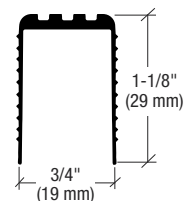
- Provides Protective Barrier Between Metal Cap and Glass
- For 1/2", 9/16", and 5/8" (12, 13.52, and 16 mm) Glass

CRL Cap Rail Vinyl and Rubber Inserts for 1/2", 9/16", and 5/8" (12, 13.52, and 16 mm) glass are used with our Low Profile and Crisp Corner 11 Gauge Cap Rails to securely attach the glass to metal. All are flat black in color, and are designed to center the glass and protect the edge of the glass when inserted into the metal cap rail.

USE MONOLITHIC TEMPERED GLASS

CAT. NO.	USE WITH	SOLD IN
GR5PV	1/2" (12 mm) Glass	120" (3.05 m) Lengths
LR56PV	9/16" (13.52 mm) Glass	100' (30.5 m) Rolls*
GR6PV	5/8" (16 mm) Glass	100' (30.5 m) Rolls*

Minimum order: 1 stock length. 120" (3.05 m) lengths must ship common carrier. A Packing Charge will be added to orders of fewer than five lengths. *Minimum order: 1 roll (100 ft).

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TOLL Phone: (800) 421-6144
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CRL Crisp Corner Low Profile 11 Gauge Cap Railing for 3/4" (19 mm) Monolithic Glass

- Designed for Use as a Top Rail for Guard Rail Applications
- Secures Glass Panels Together
- Connects to Fabricated Corners and End Caps

CRL Crisp Corner Low Profile Cap Rail is made from 11 gauge stainless steel, and is designed to protect the edge of the glass and secure glass panels together.

USE MONOLITHIC TEMPERED GLASS

Linear Hairline Finish

- 304 Grade Stainless

1-1/4" (32 mm)
R 1/8" (R 3 mm)
See Page 211B for Glazing Vinyl Insert
1-5/16" (33 mm)
1" (25 mm)
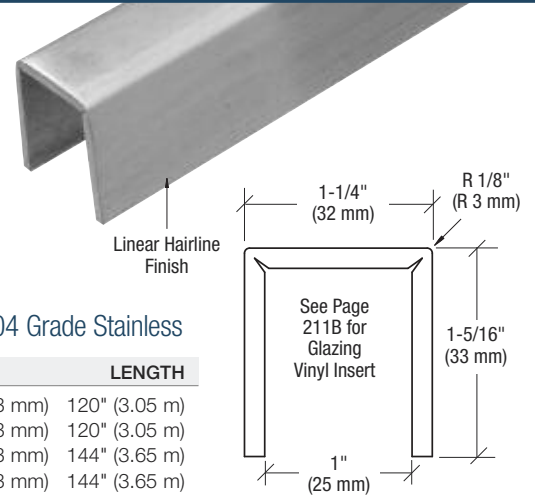
CAT. NO.	GRADE	FINISH	WIDTH	HEIGHT	THICKNESS	LENGTH
GRLC107BS	304	Brushed Stainless	1-1/4" (32 mm)	1-5/16" (33 mm)	11 Gauge 1/8" (3 mm)	120" (3.05 m)
GRLC107PS	304	Polished Stainless	1-1/4" (32 mm)	1-5/16" (33 mm)	11 Gauge 1/8" (3 mm)	120" (3.05 m)
GRLC107BS12	304	Brushed Stainless	1-1/4" (32 mm)	1-5/16" (33 mm)	11 Gauge 1/8" (3 mm)	144" (3.65 m)
GRLC107PS12	304	Polished Stainless	1-1/4" (32 mm)	1-5/16" (33 mm)	11 Gauge 1/8" (3 mm)	144" (3.65 m)

Minimum order: 1 each. Finishes can be combined for quantity pricing. Must ship common carrier.

CRL Crisp Corner 90 Degree Horizontal Low Profile 11 Gauge Cap Railing Corners for 3/4" (19 mm) Monolithic Glass

- Two Finishes Available
- Ready to Install
- Welded and Finished
- 304 Grade Stainless

Slip-fit 90 Degree Horizontal Corners for 3/4" (19 mm) thick glass allow for hairline joint assemblies with straight lengths of CRL 11 Gauge Cap Railing. Use our Cat. No. 7649 Primer and Cat. No. 32629 Metal Contact Cement (see page 239B) to achieve a secure and permanent bond. Two Connector Sleeves are required for use with each Corner (see page 211B). Standard stainless is 304 grade. Stainless 316 grade is available on special order.

L
C
90 Degrees

1-1/4" (32 mm)
R 1/8" (R 3 mm)
See Page 211B for Glazing Vinyl Insert
1-5/16" (33 mm)
1" (25 mm)

CAT. NO.	GRADE	FINISH	FITS CAP RAIL NO.	DIMENSIONS
GRLC107HBS	304	Brushed Stainless	GRLC107BS	L = 6" (152 mm)
GRLC107HPS	304	Polished Stainless	GRLC107PS	C = 5-1/2" (140 mm)

Minimum order: 1 each. All Railing Corners can be combined for quantity pricing.

CRL Crisp Corner 135 Degree Horizontal Low Profile 11 Gauge Cap Railing Corners for 3/4" (19 mm) Monolithic Glass

- Two Finishes Available
- Ready to Install
- Welded and Finished
- 304 Grade Stainless

Slip-fit 135 Degree Horizontal Corners for 3/4" (19 mm) thick glass allow for hairline joint assemblies with straight lengths of CRL 11 Gauge Cap Railing. Use our Cat. No. 7649 Primer and Cat. No. 32629 Metal Contact Cement (see page 239B) to achieve a secure and permanent bond. Two Connector Sleeves are required for use with each Corner (see page 211B).

L
C
135 Degrees

1-1/4" (32 mm)
R 1/8" (R 3 mm)
See Page 211B for Glazing Vinyl Insert
1-5/16" (33 mm)
1" (25 mm)

CAT. NO.	GRADE	FINISH	FITS CAP RAIL NO.	DIMENSIONS
GRLC107H3BS	304	Brushed Stainless	GRLC107BS	L = 6" (152 mm)
GRLC107H3PS	304	Polished Stainless	GRLC107PS	C = 5-1/2" (140 mm)

Minimum order: 1 each. All Railing Corners can be combined for quantity pricing.

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CRL US ALUMINUM

CRL Low Profile 11 Gauge Cap Railing for 3/4" (19 mm) Monolithic Glass

- Designed for Use as a Top Rail for Guard Rail Applications
- Secures Glass Panels Together
- Connects to Fabricated Corners and End Caps

USE MONOLITHIC TEMPERED GLASS

- 304 Grade Stainless

CRL Low Profile Cap Rail is made from 11 gauge stainless steel, and is designed to protect the edge of the glass and secure glass panels together.

Linear Hairline Finish

R 1/4" (R 6 mm)
1-1/4" (32 mm)
1-5/16" (33 mm)
See Page 211B for Glazing Vinyl Insert
1" (25 mm)

CAT. NO.	GRADE	FINISH	WIDTH	HEIGHT	THICKNESS	LENGTH
GRL107BS	304	Brushed Stainless	1-1/4" (32 mm)	1-5/16" (33 mm)	11 Gauge 1/8" (3 mm)	120" (3.05 m)
GRL107PS	304	Polished Stainless	1-1/4" (32 mm)	1-5/16" (33 mm)	11 Gauge 1/8" (3 mm)	120" (3.05 m)
GRL107BS14	304	Brushed Stainless	1-1/4" (32 mm)	1-5/16" (33 mm)	11 Gauge 1/8" (3 mm)	168" (4.26 m)
GRL107PS14	304	Polished Stainless	1-1/4" (32 mm)	1-5/16" (33 mm)	11 Gauge 1/8" (3 mm)	168" (4.26 m)

Minimum order: 1 each. Finishes can be combined for quantity pricing. Must ship common carrier.

CRL 90 Degree Horizontal Low Profile 11 Gauge Cap Railing Corners for 3/4" (19 mm) Monolithic Glass
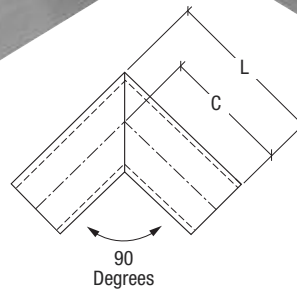
- Two Finishes Available
- Welded and Finished
- Ready to Install
- 304 Grade Stainless

Slip-fit 90 Degree Horizontal Corners for 3/4" (19 mm) thick glass allow for hairline joint assemblies with straight lengths of CRL 11 Gauge Cap Railing. Use our Cat. No. 7649 and Cat. No. 32629 Metal Contact Cement (see page 239B) to achieve a secure and permanent bond. Two Connector Sleeves are required for use with each Corner (see page 211B). Standard stainless is 304 grade. Stainless 316 grade is available on special order.

L
C
90 Degrees

R 1/4" (R 6 mm)
1-1/4" (32 mm)
1-5/16" (33 mm)
See Page 211B for Glazing Vinyl Insert
1" (25 mm)

CAT. NO.	GRADE	FINISH	FITS CAP RAIL NO.	DIMENSIONS
GRL107HBS	304	Brushed Stainless	GRL107BS	L = 6" (152 mm)
GRL107HPS	304	Polished Stainless	GRL107PS	C = 5-1/2" (140 mm)

Minimum order: 1 each. All Railing Corners can be combined for quantity pricing.

CRL 135 Degree Horizontal Low Profile 11 Gauge Cap Railing Corners for 3/4" (19 mm) Monolithic Glass

- Two Finishes Available
- Welded and Finished
- Ready to Install
- 304 Grade Stainless

Slip-fit 135 Degree Horizontal Corners for 3/4" (19 mm) thick glass allow for hairline joint assemblies with straight lengths of CRL 11 Gauge Cap Railing. Use our Cat. No. 7649 and Cat. No. 32629 Metal Contact Cement (see page 239B) to achieve a secure and permanent bond. Two Connector Sleeves are required for use with each Corner (see page 211B). Standard stainless is 304 grade. Stainless 316 grade is available on special order.

L
C
135 Degrees

R 1/4" (R 6 mm)
1-1/4" (32 mm)
1-5/16" (33 mm)
See Page 211B for Glazing Vinyl Insert
1" (25 mm)

CAT. NO.	GRADE	FINISH	FITS CAP RAIL NO.	DIMENSIONS
GRL107H3BS	304	Brushed Stainless	GRL107BS	L = 6" (152 mm)
GRL107H3PS	304	Polished Stainless	GRL107PS	C = 5-1/2" (140 mm)

Minimum order: 1 each. All Railing Corners can be combined for quantity pricing.
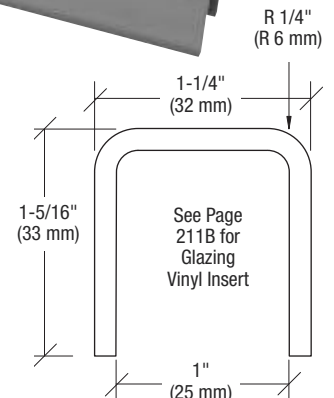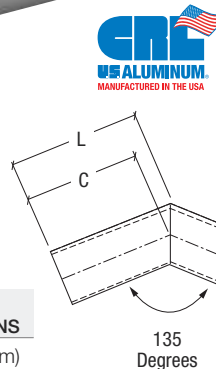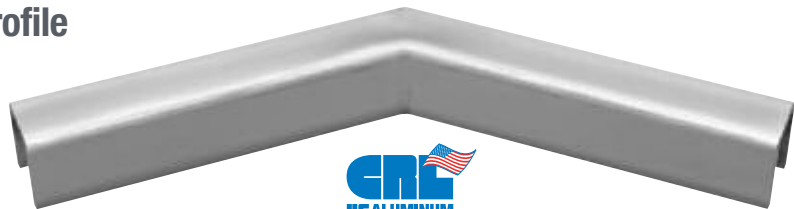
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TOLL Phone: (800) 421-6144
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From Anywhere in the U.S. or Canada

CRL Low Profile 11 Gauge Cap Railing End Caps for 3/4" (19 mm) Glass

- Formed and Shaped
- Available in Brushed and Polished Stainless Finishes

USE MONOLITHIC TEMPERED GLASS
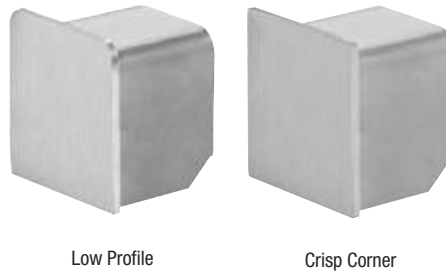
This CRL End Cap easily slips into our Low Profile 11 Gauge Cap Railing for 3/4" (19 mm) glazing. Use our Cat. No. 7649 Primer and Cat. No. 32629 Metal Contact Cement (see page 239B) to achieve a secure and permanent bond. Stainless is 304 grade.

Low Profile

Crisp Corner

CAT. NO.	CAP RAIL TYPE	GRADE	FINISH	FITS CAP RAIL NO.
GRL107ECBS	Low Profile	304	Brushed Stainless	GRL107BS
GRL107ECPS	Low Profile	304	Polished Stainless	GRL107PS
GRLC107ECBS	Crisp Corner	304	Brushed Stainless	GRLC107BS
GRLC107ECPS	Crisp Corner	304	Polished Stainless	GRLC107PS

Minimum order: 1 each. All End Caps can be combined for quantity pricing. Must ship common carrier.

CRL Low Profile 11 Gauge Cap Railing Stabilizing End Caps for 3/4" (19 mm) Glass

- Formed and Shaped
- Available in Brushed and Polished Stainless Finishes

USE MONOLITHIC TEMPERED GLASS
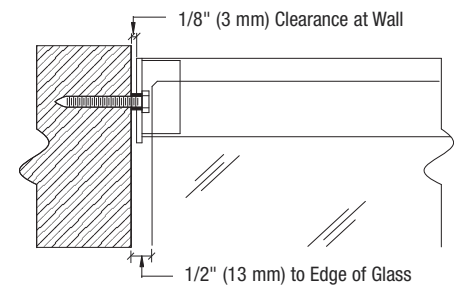
CRL Stabilizing End Caps easily slip into our Low Profile 11 Gauge Cap Railing. Use our Cat. No. 7649 Primer and Cat. No. 32629 Metal Contact Cement (see page 239B) to achieve a secure and permanent bond. Stainless alloy is 304. Includes: 1/4" x 2" (6 x 51 mm) Lag Screw with 1/4" (6 mm) Nylon Spacer.

CAT. NO. SECB1
Lag Screw with Spacer
(Included)

1/8" (3 mm) Clearance at Wall

1/2" (13 mm) to Edge of Glass

CAT. NO.	CAP RAIL TYPE	GRADE	FINISH	FITS CAP RAIL NO.
GRL107SECBS	Low Profile	304	Brushed Stainless	GRL107BS
GRL107SECPS	Low Profile	304	Polished Stainless	GRL107PS
GRLC107SECBS	Crisp Corner	304	Brushed Stainless	GRLC107BS
GRLC107SECPS	Crisp Corner	304	Polished Stainless	GRLC107PS

Minimum order: 1 each. All End Caps can be combined for quantity pricing. Must ship common carrier.

CRL Low Profile 11 Gauge and Crisp Corner Cap Railing Connector Sleeves for 3/4" (19 mm) Glass

- Provide Proper Alignment Between Railing Splices

USE MONOLITHIC TEMPERED GLASS

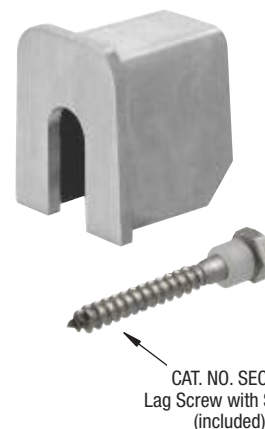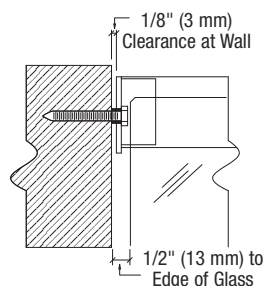These CRL Connector Sleeves are used to connect and provide proper alignment between Cap Rail splices and corner splices. Connector Sleeves easily slip into the Cap Railing without compression. Use our Cat. No. 7649 Primer and Cat. No. 32629 Metal Contact Cement (see page 239B) to greatly improve the joint strength.

1" (25 mm)

Black Neoprene Setting Blocks 1/16" (2 mm) Thick

1-3/16" (30 mm)

18 Gauge .050 Stainless Steel
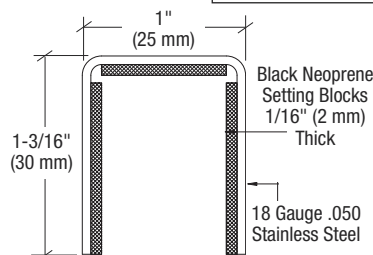
CAT. NO.	MATERIAL	FOR USE WITH
GRL107CSS	Stainless Steel	GRL107BS/GRL107PS Cap Rails GRLC107BS/GRLC107PS Cap Rails and all GRL107H/GRLC107H Cap Rail Corners

Minimum order: 1 each.

CRL Cap Rail Rigid Vinyl Insert

- For Use With 3/4" (19 mm) Glass
- Rigid Black Vinyl Provides Protective Barrier Between Metal Cap and Glass
- Helps to Align Glass Panels During Installation

USE MONOLITHIC TEMPERED GLASS

1-3/16" (30 mm)

3/4" (19 mm)

CRL Cap Rail Rigid Vinyl Inserts should be used with all CRL Cap Rails and U-Channel Caps to provide a protective barrier between metal and glass. The Rigid Vinyl Insert is useful in temporarily aligning the glass panels until the final installation of Cap Rail or U-Channel. Use 95CBL Silicone (see page 125B) to secure the Rigid Vinyl inside the pocket of the Cap Rail and also to the glass.

CAT. NO.	LENGTH	USE WITH
GR7PV	120" (3.05 m)	3/4" (19 mm) Glass

Minimum order: 1 stock length. Sizes can be combined for quantity pricing. A Packing Charge will be added to orders of fewer than five combined lengths. Stock lengths longer than 108" (2.14 m) must ship common carrier, unless you specify we cut them for U.P.S. A Cutting Charge will apply.

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211B

TOLL Phone: (800) 421-6144
FREE Fax: (800) 262-3299
From Anywhere in the U.S. or Canada

CRL Low Profile 11 Gauge Cap Railing for 27/32" (21.52 mm) Laminated Glass

- Low Profile Cap Railing That Meets Guard Rail Load Requirements
- Designed for 27/32" (21.52 mm) Laminated Glass [10 x 1.52 x 10 mm Glass Make Up]
- Connects to Fabricated Corners and End Caps
- Custom Fabricated Lengths Available
- 316 Grade Stainless

USE LAMINATED TEMPERED GLASS
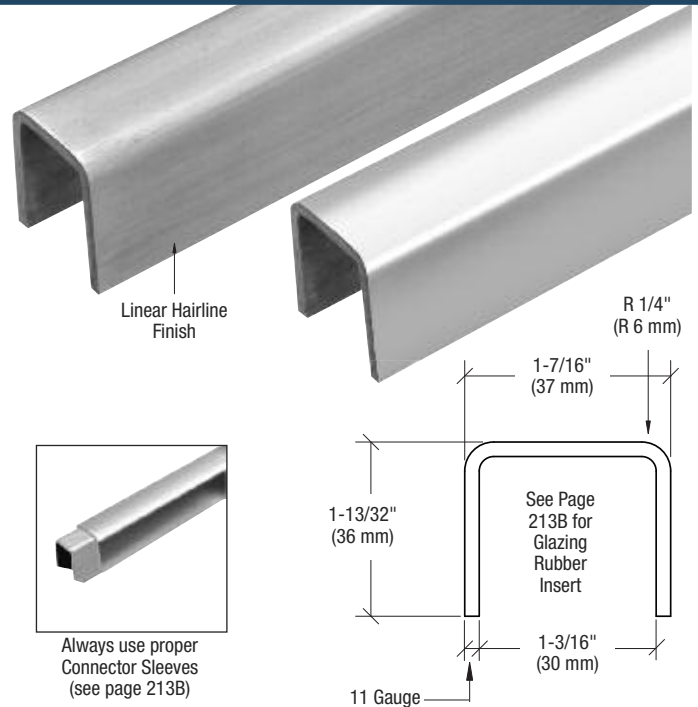
CRL Low Profile 11 Gauge Cap Railing is designed for guard rail applications and is offered in two architectural finishes. The low profile design allows for a virtually unobstructed view. Use of our Cat. No. 7649 Primer and Cat. No. 32629 Metal Contact Cement (see page 239B) is required to achieve a secure and permanent bond at all connections.

Linear Hairline Finish

Always use proper Connector Sleeves (see page 213B)

R 1/4" (R 6 mm)
1-7/16" (37 mm)
1-13/32" (36 mm)
See Page 213B for Glazing Rubber Insert
1-3/16" (30 mm)
11 Gauge

LOW PROFILE 11 GAUGE CAP RAIL IN 118-1/8" (3 M) LENGTHS

CAT. NO.	GRADE	FINISH	USE SLEEVE NO.
L10BS	316	Brushed Stainless	L10CSS
L10PS	316	Polished Stainless	L10CSS

Minimum order: 1 each. Finishes can be combined for quantity pricing. Must ship common carrier.

CRL 90 Degree Horizontal Low Profile 11 Gauge Cap Railing Corners for 27/32" (21.52 mm) Laminated Glass

- Welded and Finished
- 316 Grade Stainless

USE LAMINATED TEMPERED GLASS

This CRL 90 Degree Horizontal Corner for 27/32" (21.52 mm) thick laminated glass allows for hairline joint assemblies with straight lengths of CRL Low Profile Cap Rail.

Always use proper Connector Sleeves (see page 213B)

L
C
90 Degrees

NOTE: When used with 27/32" (21.52 mm) laminated glass, our LR21PV Cap Railing Rubber Insert (see page 213B) and 95CBL Silicone (see page 125B) should be used to secure the glass.
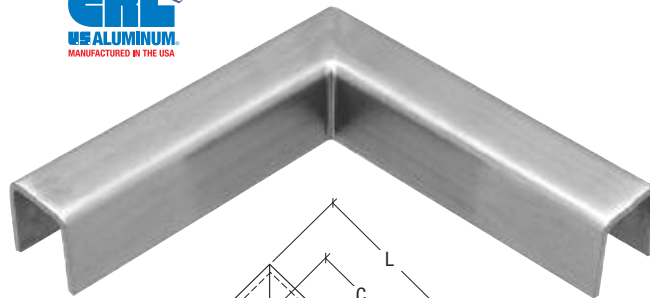
CAT. NO.	GRADE	FINISH	DIMENSIONS
L10HBS	316	Brushed Stainless	L = 6" (152 mm)
L10HPS	316	Polished Stainless	C = 5-1/4" (134 mm)

Minimum order: 1 each. All Railing Corners can be combined for quantity pricing.

CRL 135 Degree Horizontal Low Profile 11 Gauge Cap Railing Corners for 27/32" (21.52 mm) Laminated Glass

- Welded and Finished
- 316 Grade Stainless

USE LAMINATED TEMPERED GLASS

This CRL 135 Degree Horizontal Corner for 27/32" (21.52 mm) thick laminated glass allows for hairline joint assemblies with straight lengths of CRL Low Profile Cap Rail.

Always use proper Connector Sleeves (see page 213B)

L
C
135 Degrees

NOTE: When used with 27/32" (21.52 mm) laminated glass, our LR21PV Cap Railing Rubber Insert (see page 213B) and 95CBL Silicone (see page 125B) should be used to secure the glass.
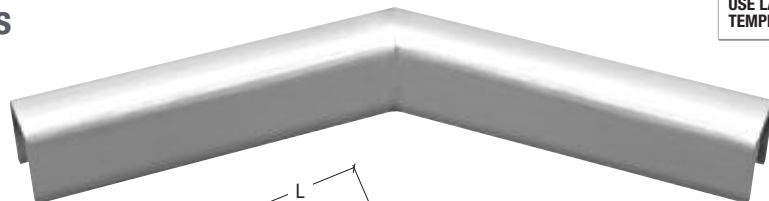
CAT. NO.	GRADE	FINISH	DIMENSIONS
L10H3BS	316	Brushed Stainless	L = 6" (152 mm)
L10H3PS	316	Polished Stainless	C = 5-1/4" (134 mm)

Minimum order: 1 each. All Railing Corners can be combined for quantity pricing.

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TOLL Phone: (800) 421-6144
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From Anywhere in the U.S. or Canada

CRL US ALUMINUM
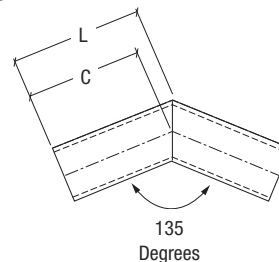
CRL Low Profile Cap Railing Connector Sleeves for 27/32" (21.52 mm) Laminated Glass

- Formed and Shaped to Fit L10 Series Cap Railing
- Provides Proper Alignment Between Railing Splices
- Ready to Install

This CRL Connector Sleeve is used to connect and provide proper alignment between railing splices and railing-to-corner splices. Connector Sleeves are designed to easily fit inside the Low Profile Cap Railing. Use of our Cat. No. 7649 Primer and Cat. No. 32629 Metal Contact Cement (see page 239B) greatly improves the joint strength. Minimum order is one each.

1-3/16" (30 mm)
13/16" (21 mm)
16 Gauge Stainless Steel
6" (152 mm)
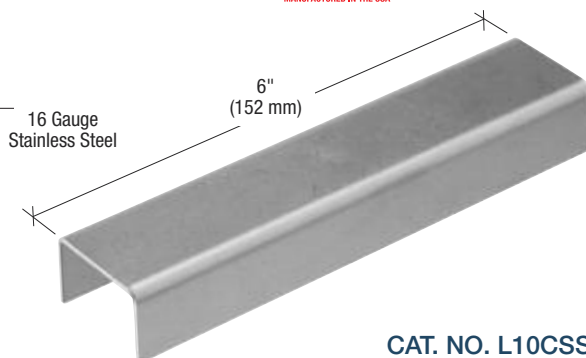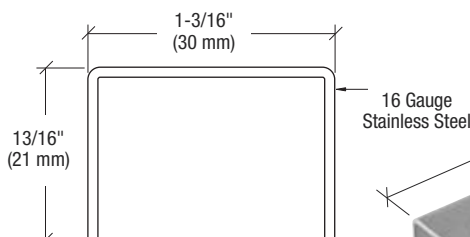
CAT. NO. L10CSS

CRL Low Profile Cap Railing End Caps for Laminated Glass

- Formed and Shaped to Fit L10 Series Cap Railing
- Ready to Install
- Available in Two Finishes
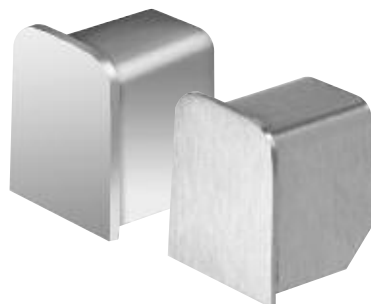
This CRL End Cap easily slips into the U-Channel Cap Railing. Use of our Cat. No. 7649 Primer and Cat. No. 32629 Metal Contact Cement (see page 239B) is required to achieve a secure and permanent bond. Standard stainless is 316 grade.

CAT. NO.	GRADE	FINISH	FITS CAP RAIL NO.
LR10ECBS	316	Brushed Stainless	L10BS
LR10ECPS	316	Polished Stainless	L10PS

Minimum order: 1 each. All End Caps can be combined for quantity pricing.

CRL Low Profile Cap Railing Stabilizing End Caps for Laminated Glass

- Formed and Shaped to Fit L10 Series Cap Railing
- Ready to Install

1/8" (3 mm) Clearance at Wall
1/2" (13 mm) to Edge of Glass

CAT. NO. SECB1
Lag Screw with Spacer (included)

CRL Stabilizing End Caps easily slip into our U-Channel Cap Railing. Use of our Cat. No. 7649 Primer and Cat. No. 32629 Metal Contact Cement (see page 239B) is required to achieve a secure and permanent bond. Standard 316 grade stainless is 11 Gauge.

CAT. NO.	GRADE	FINISH	FITS CAP RAIL NO.
LR10SECBS	316	Brushed Stainless	L10BS
LR10SECPS	316	Polished Stainless	L10PS

Minimum order: 1 each. All End Caps can be combined for quantity pricing.

CRL Low Profile Cap Railing Rubber Insert

- For 27/32" (21.52 mm) Laminated Glass
- Flexible Black Rubber Provides Protective Barrier Between Metal Cap and Glass
- Helps Align Glass Panels During Installation

USE LAMINATED TEMPERED GLASS

This CRL Rubber Insert is designed for use with our L10 Series Low Profile Cap Railing. The flexible black rubber insert provides a barrier between metal and glass. CRL's Cap Railing Rubber is also useful in temporarily aligning the glass panels until the final installation. Use 95CBL Silicone (see page 125B) to secure the Vinyl inside the pocket of the Cap Railing and also to the glass. Minimum order is one roll.

7/8" (22 mm)
23/32" (18 mm)
1-7/32" (31 mm)

SDS ONLINE
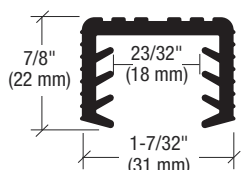
CAT. NO. LR21PV
100' (30.2 m) Roll

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213B

TOLL Phone: (800) 421-6144
FREE Fax: (800) 262-3299
From Anywhere in the U.S. or Canada

CRL US ALUMINUM

CRL U-Channel Cap Railing

- For 1/2", 9/16", 5/8", and 3/4" (12, 13.52, 16, and 19 mm) Glass
- 18 Gauge 304 Grade Stainless in 120" (3.05 m) Stock Lengths
- Protects Glass Edge

90 and 135 degree corners are also available. For information, go to **crlaurence.com/cap-railing**.
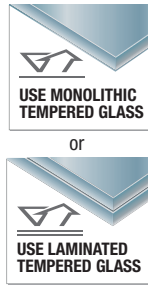
USE MONOLITHIC TEMPERED GLASS

or

USE LAMINATED TEMPERED GLASS

For Glazing Vinyls and Inserts see below.

NOTE: These U-Channels are not designed to be used as a top rail for guard rail applications.

GRUC5 Series

GRUC7 Series

CAT. NO.	GRADE	FINISH	USE WITH
GRUC5BS10	304	Brushed Stainless	1/2", 9/16", 5/8" (12, 13.52, 16 mm) Glass
GRUC5PS10	304	Polished Stainless	1/2", 9/16", 5/8" (12, 13.52, 16 mm) Glass
GRUC7BS10	304	Brushed Stainless	3/4" (19 mm) Glass
GRUC7PS10	304	Polished Stainless	3/4" (19 mm) Glass

Minimum order: 1 each. Sizes can be combined for quantity pricing. A Packing Charge will be added to orders of fewer than five combined lengths. Must ship common carrier.
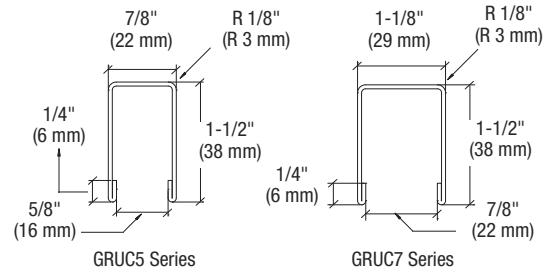
CRL Crisp Corner U-Channel Cap Railing

- For 1/2", 9/16, and 5/8" (12, 13.52, and 16 mm) Glass
- 18 Gauge 304 Grade Stainless in 120" (3.05 m) Stock Lengths
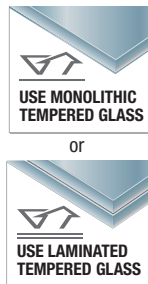
USE MONOLITHIC TEMPERED GLASS

or

USE LAMINATED TEMPERED GLASS

For Glazing Vinyls and Inserts see below.

NOTE: These U-Channels are not designed to be used as a top rail for guard rail applications.

GRCF5 Series
Crisp Corner with Flat Top

GRCR5 Series
Crisp Corner with Radius Top

FLAT TOP CAT. NO.	RADIUS TOP CAT. NO.	GRADE	FINISH
GRCF5BS	GRCR5BS	304	Brushed Stainless
GRCF5PS	GRCR5PS	304	Polished Stainless

Minimum order: 1 each. Sizes can be combined for quantity pricing. A Packing Charge will be added to orders of fewer than five combined lengths. Must ship common carrier.
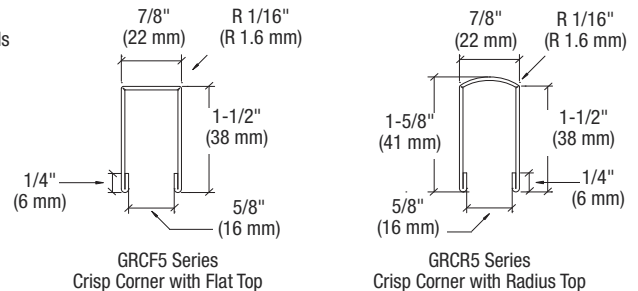
CRL End Caps for U-Channel Cap Railing

- Formed and Shaped to Fit Our 18 Gauge U-Channel Cap
- Finishes Off Exposed Ends
- 316 Grade Stainless

CAT. NO.	FINISH	USE WITH
GRUC5ECBS	Brushed Stainless	GRUC5BS10 U-Channel Cap
GRUC5ECPS	Polished Stainless	GRUC5PS10 U-Channel Cap
GRUC7ECBS	Brushed Stainless	GRUC7BS10 U-Channel Cap
GRUC7ECPS	Polished Stainless	GRUC7PS10 U-Channel Cap

Minimum order: 1 each. All End Caps can be combined for quantity pricing.

CRL Cap Rail Vinyl and Rubber Inserts

- Provide Protective Barrier Between Metal Cap and Glass
- For 1/2", 9/16", 5/8", and 3/4" (12, 13.52, 16, and 19 mm)

Use 95CBL Silicone (see page 125B) to secure the Vinyl inside the pocket of the Cap Rail and also to the glass.

GR5PV
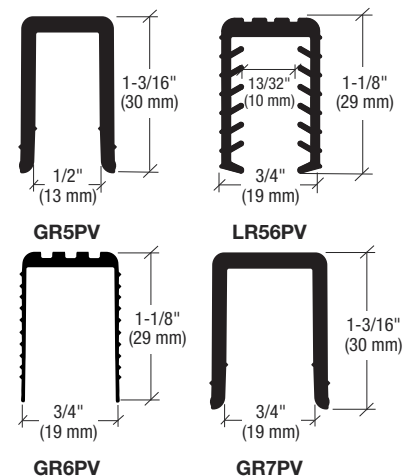
LR56PV

GR6PV

GR7PV

CAT. NO.	USE WITH	SOLD BY
GR5PV	1/2" (12 mm) Glass	120' (3.05 m) Length
LR56PV	9/16" (13.52 mm) Glass	100' (30.5 m) Roll*
GR6PV	5/8" (16 mm) Glass	100' (30.5 m) Roll*
GR7PV	3/4" (19 mm) Glass	120' (3.05 m) Length

Minimum order: 1 each. *Minimum order: 1 roll (100 ft). Sizes can be combined for quantity pricing.

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TOLL Phone: (800) 421-6144
FREE Fax: (800) 262-3299
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or enter the Catalog Number for complete product information

CRL US ALUMINUM

CRL Premium Cap Rails for 1/2", 9/16" or 5/8" (12, 13.52 or 16 mm) Glass

- Bump-Formed and Welded 120" (3.05 m) and 168" (4.27 m) Stock Lengths are Available in Seven Diameters From 1-1/2" to 4" (38 to 102 mm)
- Cut to Size or Custom Fabricated Lengths Also Available
- Four Architectural Finishes
- Connects to a Variety of Fabricated Corners and End Caps
- Spot Welded 6" (152 mm) on Center is Standard
- For Stainless, 304 Grade is Standard; 316 Grade is Available in Five Sizes
- For Brass, C260 Grade is Standard

CRL US ALUMINUM
MANUFACTURED IN THE USA

USE MONOLITHIC TEMPERED GLASS

or

USE LAMINATED TEMPERED GLASS

1-1/2" (38 mm)

1.66" (42 mm)

2" (51 mm)

2-1/2" (64 mm)

3" (76 mm)

3-1/2" (89 mm)

4" (102 mm)

CRL's Premium Cap Rails are manufactured using a unique process known as Bump-Forming that ensures accuracy, consistency, and high quality. Unlike roll-formed cap rails, CRL's Bump-Formed Premium Cap Rails do not contain the stress and spring back associated with the roll-formed product. Spot welds are every 6" (152 mm) on center both sides of the channel to add strength and stability to the Cap Rail. This results in a Cap Rail with tighter tolerances, consistent radii, and the ability to fit into welded corners without twist or discoloration. Put simply, it means this is the best product in the market place.

All CRL Premium Cap Rails are formed using precision tooling to maintain uniform diameters, allowing for smooth hairline transitions at splices, corners, and end caps. The internal channel is welded in place to increase strength and stability for fabrication. Use of our Cat. No. 7649 Primer and Cat. No. 32629 Metal Contact Cement (see page 239B) is required to achieve a secure and permanent bond at all connections. Use Connector Sleeves shown on page 225B to connect Cap Rails.

NOTE: When used with 1/2" (12 mm) glass, Cat. No. GR5PV Cap Rail Vinyl (see page 218B) and 95CBL Silicone (see page 125B) should be used to secure the glass. When used with 9/16" (13.52 mm) laminated glass, Cat. No. LR56PV Glass Rubber Insert (see page 218B) and 95CBL Silicone (see page 125B) should be used to secure the glass. When used with 5/8" (16 mm) glass, Cat. No. GR6PV Glass Rubber Insert (see page 218B) and 95CBL Silicone Sealant (see page 125B) should be used to secure the glass. Please contact CRL Technical Sales for more information or for a quote.

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215B

TOLL Phone: (800) 421-6144
FREE Fax: (800) 262-3299
From Anywhere in the U.S. or Canada

CRL US ALUMINUM

CRL Premium Cap Rails for 1/2", 9/16" or 5/8" (12, 13.52 or 16 mm) Glass

USE MONOLITHIC TEMPERED GLASS

or

USE LAMINATED TEMPERED GLASS

1-1/2" (38 MM) DIAMETER PREMIUM CAP RAIL IN 120" (3.05 M) AND 168" (4.27 M) LENGTHS

CAT. NO.△ 120" (3.05 M)	CAT. NO.△ 168" (4.27 M)	GRADE	FINISH	THICKNESS	USE SLEEVE NO.
GR15BS	GR15BS14	304	Brushed Stainless	.050" (1.3 mm)	GR15CSS
GR15BS6	GR15BS146	316	Brushed Stainless	.050" (1.3 mm)	GR15CSS
GR15PS	GR15PS14	304	Polished Stainless	.050" (1.3 mm)	GR15CSS
GR15PS6	---	316	Polished Stainless	.050" (1.3 mm)	GR15CSS
GR15PB	GR15PB14	C260	Polished Brass	.050" (1.3 mm)	GR15CSB
GR15SB	GR15SB14	C260	Satin Brass	.050" (1.3 mm)	GR15CSB

Minimum order: 1 each. All sizes and finishes can be combined for quantity pricing.
△ GR15 Series Cap Rail will not accept Cap Rail Vinyl and must be secured using 95CBL silicone and shims.

△ GR15 Series Cap Rail will not accept Cap Rail Vinyl and must be secured using 95CBL silicone and shims.

5/16"* (8 mm)
5/8" (16 mm)

1.66" (42 MM) DIAMETER PREMIUM CAP RAIL IN 120" (3.05 M) AND 168" (4.27 M) LENGTHS.

CAT. NO.△ 120" (3.05 M)	CAT. NO.△ 168" (4.27 M)	GRADE	FINISH	THICKNESS	USE SLEEVE NO.
GR16BS	GR16BS14	304	Brushed Stainless	.0625" (1.6 mm)	GR16CSS
GR16BS6	---	316	Brushed Stainless	.0625" (1.6 mm)	GR16CSS
GR16PS	GR16PS14	304	Polished Stainless	.0625" (1.6 mm)	GR16CSS
GR16PS6	---	316	Polished Stainless	.0625" (1.6 mm)	GR16CSS

Minimum order: 1 each. All sizes and finishes can be combined for quantity pricing.
△ GR16 Series Cap Rail will not accept Cap Rail Vinyl and must be secured using 95CBL silicone and shims.

△ GR16 Series Cap Rail will not accept Cap Rail Vinyl and must be secured using 95CBL silicone and shims.

1/4"* (6 mm)
3/4" (19 mm)

2" (51 MM) DIAMETER PREMIUM CAP RAIL IN 120" (3.05 M) AND 168" (4.27 M) LENGTHS

CAT. NO. 120" (3.05 M)	CAT. NO. 168" (4.27 M)	GRADE	FINISH	THICKNESS	USE SLEEVE NO.
GR20BS	GR20BS14	304	Brushed Stainless	.050" (1.3 mm)	GR20CSS
GR20BS6	GR20BS146	316	Brushed Stainless	.050" (1.3 mm)	GR20CSS
GR20PS	GR20PS14	304	Polished Stainless	.050" (1.3 mm)	GR20CSS
GR20PS6	---	316	Polished Stainless	.050" (1.3 mm)	GR20CSS
GR20PB	GR20PB14	C260	Polished Brass	.050" (1.3 mm)	GR20CSB
GR20SB	GR20SB14	C260	Satin Brass	.050" (1.3 mm)	GR20CSB

Minimum order: 1 each. All sizes and finishes can be combined for quantity pricing.

See page 218B for Glazing Vinyls and Inserts

3/8"* (10 mm)
3/4" (19 mm)

2-1/2" (64 MM) DIAMETER PREMIUM CAP RAIL IN 120" (3.05 M) AND 168" (4.27 M) LENGTHS

CAT. NO. 120" (3.05 M)	CAT. NO.△ 168" (4.27 M)	GRADE	FINISH	THICKNESS	USE SLEEVE NO.
GR25BS	GR25BS14	304	Brushed Stainless	.0625" (1.6 mm)	GR25CSS
GR25BS6	GR25BS146	316	Brushed Stainless	.0625" (1.6 mm)	GR25CSS
GR25PS	GR25PS14	304	Polished Stainless	.0625" (1.6 mm)	GR25CSS
GR25PS6	GR25PS146	316	Polished Stainless	.0625" (1.6 mm)	GR25CSS
GR25PB	GR25PB14	C260	Polished Brass	.0625" (1.6 mm)	GR25CSB
GR25SB	GR25SB14	C260	Satin Brass	.0625" (1.6 mm)	GR25CSB

Minimum order: 1 each. All sizes and finishes can be combined for quantity pricing.

See page 218B for Glazing Vinyls and Inserts

7/8"* (22 mm)
3/4" (19 mm)

*This dimension is used to calculate the glass size. Add the clearance you desire or allow an additional 1/8" (3 mm) if using Cap Rail Vinyl (see page 218B).

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From Anywhere in the U.S. or Canada

CRL US ALUMINUM

CRL Premium Cap Rails
for 1/2", 9/16" or 5/8"
(12, 13.52 or 16 mm) Glass

USE MONOLITHIC TEMPERED GLASS or USE LAMINATED TEMPERED GLASS

3" (76 MM) DIAMETER PREMIUM CAP RAIL IN 120" (3.05 M) AND 168" (4.27 M) LENGTHS

CAT. NO. 120" (3.05 M)	CAT. NO. 168" (4.27 M)	GRADE	FINISH	THICKNESS	USE SLEEVE NO.
GR30BS	GR30BS14	304	Brushed Stainless	.0625" (1.6 mm)	GR30CSS
GR30PS	GR30PS14	304	Polished Stainless	.0625" (1.6 mm)	GR30CSS
GR30PB	GR30PB14	C260	Polished Brass	.0625" (1.6 mm)	GR30CSB
GR30SB	GR30SB14	C260	Satin Brass	.0625" (1.6 mm)	GR30CSB
GR30BS6	-----	316	Brushed Stainless	.0625" (1.6 mm)	GR30CSS

Minimum order: 1 each. All sizes and finishes can be combined for quantity pricing.

See page 218B for Glazing Vinyls and Inserts

1-3/8"* (35 mm)
3/4" (19 mm)

3-1/2" (89 MM) DIAMETER PREMIUM CAP RAIL IN 120" (3.05 M) AND 168" (4.27 M) LENGTHS

CAT. NO. 120" (3.05 M)	CAT. NO. 168" (4.27 M)	GRADE	FINISH	THICKNESS	USE SLEEVE NO.
GR35BS	GR35BS14	304	Brushed Stainless	.0625" (1.6 mm)	GR35CSS
GR35PS	GR35PS14	304	Polished Stainless	.0625" (1.6 mm)	GR35CSS
GR35PB	GR35PB14	C260	Polished Brass	.0625" (1.6 mm)	GR35CSB
GR35SB	GR35SB14	C260	Satin Brass	.0625" (1.6 mm)	GR35CSB

Minimum order: 1 each. All sizes and finishes can be combined for quantity pricing.

See page 218B for Glazing Vinyls and Inserts

1-7/8"* (48 mm)
3/4" (19 mm)

4" (102 MM) DIAMETER PREMIUM CAP RAIL IN 120" (3.05 M) AND 168" (4.27 M) LENGTHS

CAT. NO. 120" (3.05 M)	CAT. NO. 168" (4.27 M)	GRADE	FINISH	THICKNESS	USE SLEEVE NO.
GR40BS	GR40BS14	304	Brushed Stainless	.0625" (1.6 mm)	GR40CSS
GR40PS	GR40PS14	304	Polished Stainless	.0625" (1.6 mm)	GR40CSS
GR40PB	GR40PB14	C260	Polished Brass	.0625" (1.6 mm)	GR40CSB
GR40SB	GR40SB14	C260	Satin Brass	.0625" (1.6 mm)	GR40CSB

Minimum order: 1 each. All sizes and finishes can be combined for quantity pricing.

See page 218B for Glazing Vinyls and Inserts

2-3/8"* (60 mm)
3/4" (19 mm)
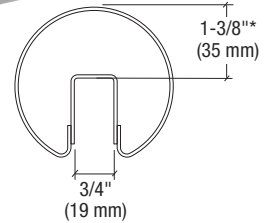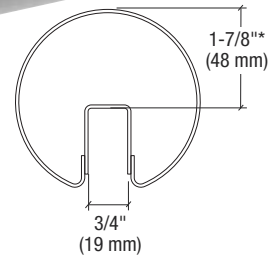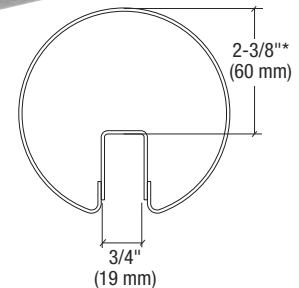
*This dimension is used to calculate the glass size. Add the clearance you desire or allow an additional 1/8" (3 mm) if using Cap Rail Vinyl (see page 218B).

go to crlaurence.com to search for
cap-railing   Search
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217B

TOLL Phone: (800) 421-6144
FREE Fax: (800) 262-3299
From Anywhere in the U.S. or Canada

CRL US ALUMINUM

CRL Premium Cap Railing End Caps for 1/2", 9/16", or 5/8" (12, 13.52, or 16 mm) Glass

- Four Architectural Finishes
- Formed and Shaped to Fit
- Ready to Install

CRL End Caps easily slip into the Cap Railing. Use of our Cat. No. 7649 Primer and Cat. No. 32629 Metal Contact Cement (see page 239B) is required to achieve a secure and permanent bond. Standard stainless is 316 grade. For brass, C260 grade is standard. Contact CRL Technical Sales for more information or a quote.

FOR 1-1/2" (38 MM) DIAMETER PREMIUM CAP RAILING

CAT. NO.	GRADE	GA./THK.	FINISH	FITS CAP RAIL NO.
GR15ECBS	316	16/.0625"	Brushed Stainless	GR15BS
GR15ECPS	316	16/.0625"	Polished Stainless	GR15PS
GR15ECPB	C260	.045"	Polished Brass	GR15PB
GR15ECSB	C260	.045"	Satin Brass	GR15SB

Minimum order: 1 each. All End Caps can be combined for quantity pricing.

FOR 1.66" (42 MM) DIAMETER PREMIUM CAP RAILING

CAT. NO.	GRADE	GA./THK.	FINISH	FITS CAP RAIL NO.
GR16ECBS	316	16/.0625"	Brushed Stainless	GR16BS
GR16ECPS	316	16/.0625"	Polished Stainless	GR16PS

Minimum order: 1 each. All End Caps can be combined for quantity pricing.

FOR 2" (51 MM) DIAMETER PREMIUM CAP RAILING

CAT. NO.	GRADE	GA./THK.	FINISH	FITS CAP RAIL NO.
GR20ECBS	316	16/.0625"	Brushed Stainless	GR20BS
GR20ECPS	316	16/.0625"	Polished Stainless	GR20PS
GR20ECPB	C260	.045"	Polished Brass	GR20PB
GR20ECSB	C260	.045"	Satin Brass	GR20SB

Minimum order: 1 each. All End Caps can be combined for quantity pricing.

FOR 2-1/2" (64 MM) DIAMETER PREMIUM CAP RAILING

CAT. NO.	GRADE	GA./THK.	FINISH	FITS CAP RAIL NO.
GR25ECBS	316	16/.0625"	Brushed Stainless	GR25BS
GR25ECPS	316	16/.0625"	Polished Stainless	GR25PS
GR25ECPB	C260	.045"	Polished Brass	GR25PB
GR25ECSB	C260	.045"	Satin Brass	GR25SB

Minimum order: 1 each. All End Caps can be combined for quantity pricing.

FOR 3" (76 MM) DIAMETER PREMIUM CAP RAILING

CAT. NO.	GRADE	GA./THK.	FINISH	FITS CAP RAIL NO.
GR30ECBS	316	16/.0625"	Brushed Stainless	GR30BS
GR30ECPS	316	16/.0625"	Polished Stainless	GR30PS
GR30ECPB	C260	.045"	Polished Brass	GR30PB
GR30ECSB	C260	.045"	Satin Brass	GR30SB

Minimum order: 1 each. All End Caps can be combined for quantity pricing.

FOR 3-1/2" (89 MM) DIAMETER PREMIUM CAP RAILING

CAT. NO.	GRADE	GA./THK.	FINISH	FITS CAP RAIL NO.
GR35ECBS	316	16/.0625"	Brushed Stainless	GR35BS
GR35ECPS	316	16/.0625"	Polished Stainless	GR35PS
GR35ECPB	C260	.045"	Polished Brass	GR35PB
GR35ECSB	C260	.045"	Satin Brass	GR35SB

Minimum order: 1 each. All End Caps can be combined for quantity pricing.

FOR 4" (102 MM) DIAMETER PREMIUM CAP RAILING

CAT. NO.	GRADE	GA./THK.	FINISH	FITS CAP RAIL NO.
GR40ECBS	316	16/.0625"	Brushed Stainless	GR40BS
GR40ECPS	316	16/.0625"	Polished Stainless	GR40PS
GR40ECPB	C260	.045"	Polished Brass	GR40PB
GR40ECSB	C260	.045"	Satin Brass	GR40SB

Minimum order: 1 each. All End Caps can be combined for quantity pricing.

CRL Cap Rail Vinyl and Rubber Inserts

- For Use With 1/2", 9/16", or 5/8" (12, 13.52, or 16 mm) Glass
- Provide Protective Barrier Between Metal Cap and Glass
- Helps to Align Glass Panels During Installation

USE MONOLITHIC TEMPERED GLASS

CRL Cap Rail Vinyl and Rubber Inserts should be used with all CRL Cap Rails and U-Channel Caps to provide a protective barrier between metal and glass. Use 95CBL Silicone (see page 125B) to secure the Rail Vinyl or Rubber Inserts inside the pocket of the Cap Rail and also to the glass.
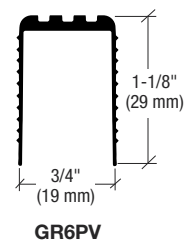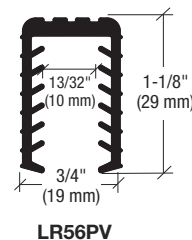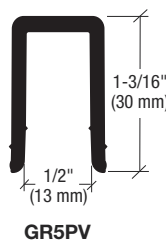
GR5PV — 1-3/16" (30 mm), 1/2" (13 mm)

LR56PV — 13/32" (10 mm), 1-1/8" (29 mm), 3/4" (19 mm)

GR6PV — 1-1/8" (29 mm), 3/4" (19 mm)

CAT. NO.	USE WITH	SOLD BY
GR5PV	1/2" (12 mm) Glass	120" (3.05 m) Length
LR56PV	9/16" (13.52 mm) Glass	100' (30.5 m) Roll*
GR6PV	5/8" (16 mm) Glass	100' (30.5 m) Roll*

Minimum order: 1 stock length. Sizes can be combined for quantity pricing. A Packing Charge will be added to orders of fewer than five combined lengths. Stock lengths longer than 108" (2.14 m) must ship common carrier, unless you specify we cut them for U.P.S. A Cutting Charge will apply. *Minimum order: 1 roll (100 ft.)

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or enter the Catalog Number for complete product information

218B

TOLL Phone: (800) 421-6144
FREE Fax: (800) 262-3299
From Anywhere in the U.S. or Canada

CRL US ALUMINUM

CRL Premium Cap Railing Stabilizing End Caps for 1/2", 9/16", or 5/8" (12, 13.52, or 16 mm) Glass

- Formed and Shaped to Fit
- Ready to Install With Lag Screw
- Four Architectural Finishes

CRL Stabilizing End Caps easily slip into our Cap Railing. Use of our Cat. No. 7649 Primer and Cat. No. 32629 Metal Contact Cement (see page 239B) is required to achieve a secure and permanent bond. Standard stainless is 316 grade. For brass, C260 grade is standard. Includes: 1/4" (6 mm) x 2" (51 mm) Lag Screw with 1/4" (6 mm) Nylon Spacer.

1/8" (3 mm) Clearance at Wall

1/8" (3 mm)

1/2" (13 mm) to Edge of Glass

CAT. NO. SECB1 Lag Screw with Spacer (Included)
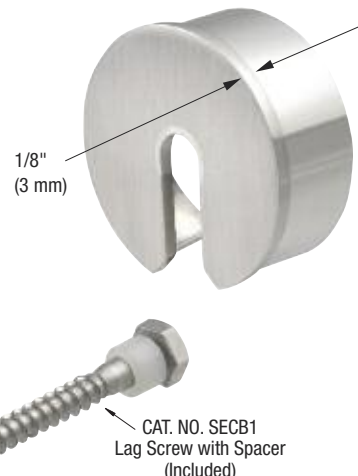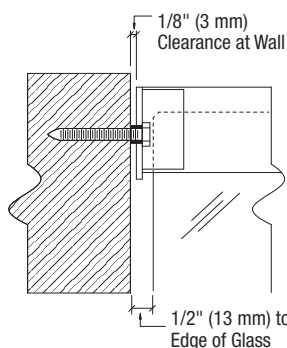
FOR 1-1/2" (38 MM) DIAMETER PREMIUM CAP RAILING

CAT. NO.	GRADE	FINISH	FITS CAP RAIL NO.
GR15SECBS	316	Brushed Stainless	GR15BS
GR15SECPS	316	Polished Stainless	GR15PS
GR15SECPB	C260	Polished Brass	GR15PB
GR15SECSB	C260	Satin Brass	GR15SB

Minimum order: 1 each. All End Caps can be combined for quantity pricing.

FOR 1.66" (42 MM) DIAMETER PREMIUM CAP RAILING

CAT. NO.	GRADE	FINISH	FITS CAP RAIL NO.
GR16SECBS	316	Brushed Stainless	GR16BS
GR16SECPS	316	Polished Stainless	GR16PS

Minimum order: 1 each. All End Caps can be combined for quantity pricing.

FOR 2" (51 MM) DIAMETER PREMIUM CAP RAILING

CAT. NO.	GRADE	FINISH	FITS CAP RAIL NO.
GR20SECBS	316	Brushed Stainless	GR20BS
GR20SECPS	316	Polished Stainless	GR20PS
GR20SECPB	C260	Polished Brass	GR20PB
GR20SECSB	C260	Satin Brass	GR20SB

Minimum order: 1 each. All End Caps can be combined for quantity pricing.

FOR 2-1/2" (64 MM) DIAMETER PREMIUM CAP RAILING

CAT. NO.	GRADE	FINISH	FITS CAP RAIL NO.
GR25SECBS	316	Brushed Stainless	GR25BS
GR25SECPS	316	Polished Stainless	GR25PS
GR25SECPB	C260	Polished Brass	GR25PB
GR25SECSB	C260	Satin Brass	GR25SB

Minimum order: 1 each. All End Caps can be combined for quantity pricing.

FOR 3" (76 MM) DIAMETER PREMIUM CAP RAILING

CAT. NO.	GRADE	FINISH	FITS CAP RAIL NO.
GR30SECBS	316	Brushed Stainless	GR30BS
GR30SECPS	316	Polished Stainless	GR30PS
GR30SECPB	C260	Polished Brass	GR30PB
GR30SECSB	C260	Satin Brass	GR30SB

Minimum order: 1 each. All End Caps can be combined for quantity pricing.

FOR 3-1/2" (89 MM) DIAMETER PREMIUM CAP RAILING

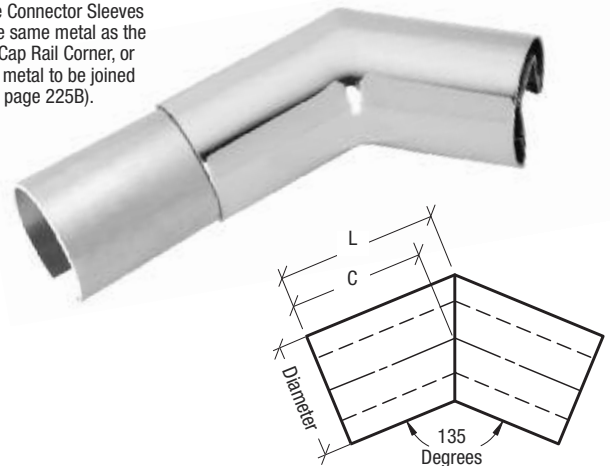| CAT. NO.	GRADE	FINISH	FITS CAP RAIL NO.
GR35SECBS	316	Brushed Stainless	GR35BS
GR35SECPS	316	Polished Stainless	GR35PS
GR35SECPB	C260	Polished Brass	GR35PB
GR35SECSB	C260	Satin Brass	GR35SB

Minimum order: 1 each. All End Caps can be combined for quantity pricing.

FOR 4" (102 MM) DIAMETER PREMIUM CAP RAILING

CAT. NO.	GRADE	FINISH	FITS CAP RAIL NO.
GR40SECBS	316	Brushed Stainless	GR40BS
GR40SECPS	316	Polished Stainless	GR40PS
GR40SECPB	C260	Polished Brass	GR40PB
GR40SECSB	C260	Satin Brass	GR40SB

Minimum order: 1 each. All End Caps can be combined for quantity pricing.

How Stabilizing End Caps Are Installed:

Each Stabilizing End Cap is supplied with a complete set of installation instructions. Also available online at **crlaurence.com/cap-railing**.

1. Insert Stabilizing End Cap into Cap Rail and secure with Metal Contact Cement.

2. Install Lag Screw with Nylon Spacer at required location on the substrate.

3. Press Cap Rail Assembly over Anchor Bolt and prepared glass, and then apply downward force to secure in place.

4. Secure Cap Rail to glass using 95CBL Silicone and Shims.

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cap-railing | Search

or enter the Catalog Number for complete product information

219B

TOLL Phone: (800) 421-6144
FREE Fax: (800) 262-3299
From Anywhere in the U.S. or Canada

CRL US ALUMINUM

CRL Premium Cap Railing 90 Degree Horizontal Corners for 1/2", 9/16", or 5/8" (12, 13.52, or 16 mm) Glass

CRL US ALUMINUM®
MANUFACTURED IN THE USA

- Welded, Finished, and Ready to Install
- Four Architectural Finishes
- Requires Two Connector Sleeves (Not Included)

Interior slip-fit Horizontal Corners for 1/2", 9/16", or 5/8" (12, 13.52, or 16 mm) thick glass allow for hairline joint assemblies with straight lengths of Premium Cap Rail. Use of our Cat. No. 7649 Primer and Cat. No. 32629 Metal Contact Cement (see page 239B) is required to achieve a secure and permanent bond. Two Connector Sleeves are required for use with each corner (see page 225B).

Each Horizontal Corner is fabricated, finished, and individually packed. All of our stainless and brass corners are fabricated from CRL Premium Cap Rail, and are welded and finished to match. Standard stainless is 304 grade. Stainless 316 grade is available on special order. For brass, C260 grade is standard. Please contact CRL Technical Sales for more information or a quote.

See page 218B
for Vinyl and
Rubber Inserts

FOR 1-1/2" (38 MM) DIAMETER PREMIUM CAP RAILING

CAT. NO.	GRADE	FINISH	DIMENSIONS
GR15HBS	304	Brushed Stainless	L=3-3/4" (95 mm)
GR15HPS	304	Polished Stainless	C=3" (76 mm)
GR15HPB	C260	Polished Brass	
GR15HSB	C260	Satin Brass	

Minimum order: 1 each. All Railing Corners can be combined for quantity pricing.

FOR 1.66" (42 MM) DIAMETER PREMIUM CAP RAILING

CAT. NO.	GRADE	FINISH	DIMENSIONS
GR16HBS	304	Brushed Stainless	L=4" (102 mm)
GR16HPS	304	Polished Stainless	C=3-3/16" (81 mm)

Minimum order: 1 each. All Railing Corners can be combined for quantity pricing.

FOR 2" (51 MM) DIAMETER PREMIUM CAP RAILING

CAT. NO.	GRADE	FINISH	DIMENSIONS
GR20HBS	304	Brushed Stainless	L=4" (102 mm)
GR20HPS	304	Polished Stainless	C=3" (76 mm)
GR20HPB	C260	Polished Brass	
GR20HSB	C260	Satin Brass	

Minimum order: 1 each. All Railing Corners can be combined for quantity pricing.

FOR 2-1/2" (64 MM) DIAMETER PREMIUM CAP RAILING

CAT. NO.	GRADE	FINISH	DIMENSIONS
GR25HBS	304	Brushed Stainless	L=4-1/2" (114 mm)
GR25HPS	304	Polished Stainless	C=3-1/4" (83 mm)
GR25HPB	C260	Polished Brass	
GR25HSB	C260	Satin Brass	

Minimum order: 1 each. All Railing Corners can be combined for quantity pricing.

FOR 3" (76 MM) DIAMETER PREMIUM CAP RAILING

CAT. NO.	GRADE	FINISH	DIMENSIONS
GR30HBS	304	Brushed Stainless	L=5" (127 mm)
GR30HPS	304	Polished Stainless	C=3-1/2" (89 mm)
GR30HPB	C260	Polished Brass	
GR30HSB	C260	Satin Brass	

Minimum order: 1 each. All Railing Corners can be combined for quantity pricing.

FOR 3-1/2" (89 MM) DIAMETER PREMIUM CAP RAILING

CAT. NO.	GRADE	FINISH	DIMENSIONS
GR35HBS	304	Brushed Stainless	L=5-1/2" (140 mm)
GR35HPS	304	Polished Stainless	C=3-3/4" (95 mm)
GR35HPB	C260	Polished Brass	
GR35HSB	C260	Satin Brass	

Minimum order: 1 each. All Railing Corners can be combined for quantity pricing.

FOR 4" (102 MM) DIAMETER PREMIUM CAP RAILING

CAT. NO.	GRADE	FINISH	DIMENSIONS
GR40HBS	304	Brushed Stainless	L=6" (152 mm)
GR40HPS	304	Polished Stainless	C=4" (102 mm)
GR40HPB	C260	Polished Brass	
GR40HSB	C260	Satin Brass	

Minimum order: 1 each. All Railing Corners can be combined for quantity pricing.

IMPORTANT INSTALLATION NOTE:
Always use Connector Sleeves made of the same metal as the Cap Rail, Cap Rail Corner, or Hand Rail metal to be joined (see page 225B).

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220B

TOLL Phone: (800) 421-6144
FREE Fax: (800) 262-3299
From Anywhere in the U.S. or Canada

CRL US ALUMINUM®

or enter the Catalog Number for complete product information

CRL Premium Cap Railing 135 Degree Horizontal Corners for 1/2", 9/16", or 5/8" (12, 13.52, or 16 mm) Glass

- Welded and Finished
- Ready to Install
- Up to Four Architectural Finishes
- Requires Two Connector Sleeves (Not Included)

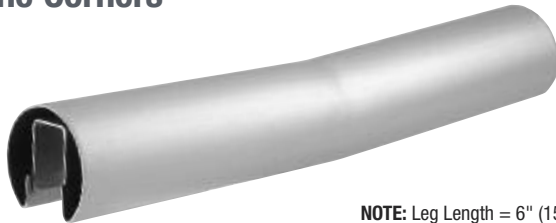USE MONOLITHIC TEMPERED GLASS or USE LAMINATED TEMPERED GLASS

Interior slip-fit Horizontal Corners for 1/2", 9/16", or 5/8" (12, 13.52, or 16 mm) thick glass allow for hairline joint assemblies with straight lengths of CRL Cap Rail. Use of our Cat. No. 32629 Metal Contact Cement (see page 239B) is required to achieve a secure and permanent bond. Two Connector Sleeves are required for use with each corner (see page 225B).

Each Horizontal Corner is fabricated, finished, and individually packed. All of our stainless and brass corners are fabricated from CRL Premium Cap Rail, and are welded and finished to match. Standard stainless is 304 grade. Stainless 316 grade is available on special order. For brass C260 grade is standard.

See page 218B for Vinyl and Rubber Inserts

FOR 1-1/2" (38 MM) DIAMETER PREMIUM CAP RAILING

CAT. NO.	GRADE	FINISH	DIMENSIONS
GR15H3BS	304	Brushed Stainless	L=2-1/2" (64 mm)
GR15H3PS	304	Polished Stainless	C=2-3/16" (56 mm)
GR15H3SB	C260	Satin Brass	

Minimum order: 1 each. All Railing Corners can be combined for quantity pricing.

FOR 1.66" (42 MM) DIAMETER PREMIUM CAP RAILING

CAT. NO.	GRADE	FINISH	DIMENSIONS
GR16H3BS	304	Brushed Stainless	L=2-3/4" (70 mm)
GR16H3PS	304	Polished Brass	C=2-3/8" (60 mm)

Minimum order: 1 each. All Railing Corners can be combined for quantity pricing.

FOR 2" (51 MM) DIAMETER PREMIUM CAP RAILING

CAT. NO.	GRADE	FINISH	DIMENSIONS
GR20H3BS	304	Brushed Stainless	L=2-3/4" (70 mm)
GR20H3PS	304	Polished Stainless	C=2-5/16" (59 mm)
GR20H3PB	C260	Polished Brass	
GR20H3SB	C260	Satin Brass	

Minimum order: 1 each. All Railing Corners can be combined for quantity pricing.

FOR 2-1/2" (64 MM) DIAMETER PREMIUM CAP RAILING

CAT. NO.	GRADE	FINISH	DIMENSIONS
GR25H3BS	304	Brushed Stainless	L=3" (76 mm)
GR25H3PS	304	Polished Stainless	C=2-1/2" (64 mm)
GR25H3PB	C260	Polished Brass	
GR25H3SB	C260	Satin Brass	

Minimum order: 1 each. All Railing Corners can be combined for quantity pricing.

FOR 3" (76 MM) DIAMETER PREMIUM CAP RAILING

CAT. NO.	GRADE	FINISH	DIMENSIONS
GR30H3BS	304	Brushed Stainless	L=5" (127 mm)
GR30H3PB	C260	Polished Brass	C=4-3/8" (89 mm)
GR30H3SB	C260	Satin Brass	

Minimum order: 1 each. All Railing Corners can be combined for quantity pricing.

FOR 3-1/2" (90 MM) DIAMETER PREMIUM CAP RAILING

CAT. NO.	GRADE	FINISH	DIMENSIONS
GR35H3BS	304	Brushed Stainless	L=5-1/2" (140 mm)
GR35H3PS	304	Polished Stainless	C=4-3/4" (95 mm)
GR35H3PB	C260	Polished Brass	
GR35H3SB	C260	Satin Brass	

Minimum order: 1 each. All Railing Corners can be combined for quantity pricing.

FOR 4" (102 MM) DIAMETER PREMIUM CAP RAILING

CAT. NO.	GRADE	FINISH	DIMENSIONS
GR40H3PS	304	Polished Stainless	L=6" (152 mm)
GR40H3PB	C260	Polished Brass	C=5-3/16" (132 mm)
GR40H3SB	C260	Satin Brass	

Minimum order: 1 each. All Railing Corners can be combined for quantity pricing.

IMPORTANT INSTALLATION NOTE:
Always use Connector Sleeves made of the same metal as the Cap Rail, Cap Rail Corner, or Hand Rail metal to be joined (see page 225B).

L
C
Diameter
135 Degrees

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cap-railing   Search
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221B

TOLL Phone: (800) 421-6144
FREE Fax: (800) 262-3299
From Anywhere in the U.S. or Canada

CRL US ALUMINUM

CRL Premium Cap Railing Upper Incline Corners for 1/2", 9/16", or 5/8" (12, 13.52, or 16 mm) Glass

- Four Standard Angles for the Top of a Stair or Ramp Railing Incline
- Brushed or Polished Stainless Finishes in Up to Six Diameters
- 304 Grade Stainless is Standard; 316 Grade Available on Special Order
- Ready to Install
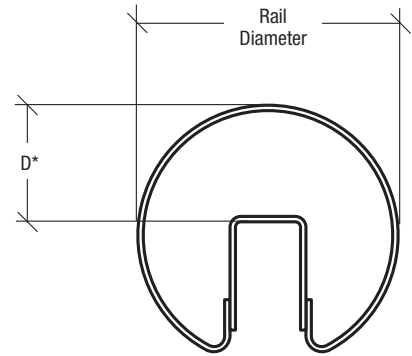
Interior slip-fit Upper Incline Corners for 1/2", 9/16", or 5/8" (12, 13.52, or 16 mm) thick glass allow for hairline joint assemblies with straight lengths of CRL Cap Rail. Use of our Cat. No. 7649 Primer and Cat. No. 32629 Metal Contact Cement (see page 239B) is required to achieve a secure and permanent bond. Two Connector Sleeves are required for the use of each corner (see page 225B).

Each Incline Corner is fabricated, finished, and individually packed. All of our corners are fabricated from CRL Premium Cap Rail, and are welded and finished to match. Standard stainless is 304 grade. Stainless 316 grade is available on special order. Please contact CRL Technical Sales for more information or a quote.

Rail Diameter

D*

* This dimension is used to calculate the glass size. Add the clearance you desire or add an additional 1/8" (3 mm) if using Cap Rail Vinyl or Rubber Inserts (see page 218B).

4 Degree Upper Incline Corners

NOTE: Leg Length = 6" (152 mm)

BRUSHED CAT. NO.	POLISHED CAT. NO.	"D" *	RAIL DIAMETER
GR15U4BS	GR15U4PS	5/16" (8 mm)	1-1/2" (38 mm)
GR20U4BS	GR20U4PS	3/8" (10 mm)	2" (51 mm)
GR25U4BS	GR25U4PS	7/8" (22 mm)	2-1/2" (64 mm)
GR30U4BS	GR30U4PS	1-3/8" (35 mm	3" (76 mm)
GR35U4BS	GR35U4PS	1-7/8" (48 mm)	3-1/2" (89 mm)
GR40U4BS	GR40U4PS	2-3/8" (60 mm)	4" (102 mm)

Minimum order: 1 each. All Railing Corners can be combined for quantity pricing.

29 Degree Upper Incline Corners

NOTE: Leg Length = 6" (152 mm)

BRUSHED CAT. NO.	POLISHED CAT. NO.	"D" *	RAIL DIAMETER
GR15U29BS	GR15U29PS	5/16" (8 mm)	1-1/2" (38 mm)
GR20U29BS	GR20U29PS	3/8" (10 mm)	2" (51 mm)
GR25U29BS	GR25U29PS	7/8" (22 mm)	2-1/2" (64 mm)
GR30U29BS	GR30U29PS	1-3/8" (35 mm)	3" (76 mm)
GR35U29BS	GR35U29PS	1-7/8" (48 mm)	3-1/2" (89 mm)
GR40U29BS	GR40U29PS	2-3/8" (60 mm)	4" (102 mm)

Minimum order: 1 each. All Railing Corners can be combined for quantity pricing.

32 Degree Upper Incline Corners

NOTE: Leg Length = 6" (152 mm)

BRUSHED CAT. NO.	POLISHED CAT. NO.	"D" *	RAIL DIAMETER
GR15U32BS	GR15U32PS	5/16" (8 mm)	1-1/2" (38 mm)
GR20U32BS	GR20U32PS	3/8" (10 mm)	2" (51 mm)
GR25U32BS	GR25U32PS	7/8" (22 mm)	2-1/2" (64 mm)
GR30U32BS	GR30U32PS	1-3/8" (35 mm)	3" (76 mm)
GR35U32BS	GR35U32PS	1-7/8" (48 mm)	3-1/2" (89 mm)
GR40U32BS	GR40U32PS	2-3/8" (60 mm)	4" (102 mm)

Minimum order: 1 each. All Railing Corners can be combined for quantity pricing.

35 Degree Upper Incline Corners
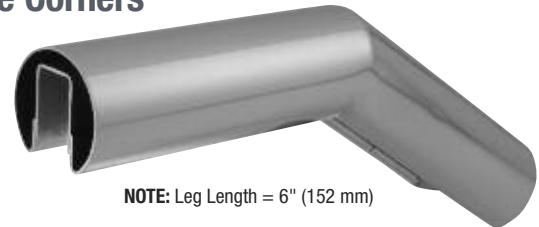
NOTE: Leg Length = 6" (152 mm)

BRUSHED CAT. NO.	POLISHED CAT. NO.	"D" *	RAIL DIAMETER
GR15U35BS	GR15U35PS	5/16" (8 mm)	1-1/2" (38 mm)
GR20U35BS	GR20U35PS	3/8" (10 mm)	2" (51 mm)
GR25U35BS	GR25U35PS	7/8" (22 mm)	2-1/2" (64 mm)
GR30U35BS	GR30U35PS	1-3/8" (35 mm)	3" (76 mm)
GR35U35BS	GR35U35PS	1-7/8" (48 mm)	3-1/2" (89 mm)
GR40U35BS	GR40U35PS	2-3/8" (60 mm)	4" (102 mm)

Minimum order: 1 each. All Railing Corners can be combined for quantity pricing.

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or enter the Catalog Number for complete product information

222B

TOLL Phone: (800) 421-6144
FREE Fax: (800) 262-3299
From Anywhere in the U.S. or Canada

CRL US ALUMINUM

CRL Premium Cap Railing Lower Incline Corners for 1/2", 9/16", or 5/8" (12, 13.52, or 16 mm) Glass

Rail Diameter

D*

* This dimension is used to calculate the glass size. Add the clearance you desire or add an additional 1/8" (3 mm) if using Cap Rail Vinyl or Rubber Inserts (see page 218B).

- Four Standard Angles for the Bottom of a Stair or Ramp Railing Incline
- Brushed or Polished Stainless Finishes in Up To Six Diameters
- 304 Grade Stainless is Standard; 316 Grade Available on Special Order
- Ready to Install

CRL US ALUMINUM. MANUFACTURED IN THE USA

   Interior slip-fit Lower Incline Corners for 1/2", 9/16", or 5/8" (12, 13.52, or 16 mm) thick glass allow for hairline joint assemblies with straight lengths of CRL Cap Rail. Use of our Cat. No. 7649 Primer and Cat. No. 32629 Metal Contact Cement (see page 239B) is required to achieve a secure and permanent bond. Two Connector Sleeves are required for the use of each corner (see page 225B).

   Each Incline Corner is fabricated, finished, and individually packed. All of our corners are fabricated from CRL Premium Cap Rail, and are welded and finished to match. Standard stainless is 304 grade. Stainless 316 grade is available on special order. Please contact CRL Technical Sales for more information or a quote.

4 Degree Lower Incline Corners

NOTE: Leg Length = 6" (152 mm)

BRUSHED CAT. NO.	POLISHED CAT. NO.	"D" *	RAIL DIAMETER
GR15L4BS	GR15L4PS	5/16" (8 mm)	1-1/2" (38 mm)
GR20L4BS	GR20L4PS	3/8" (10 mm)	2" (51 mm)
GR25L4BS	GR25L4PS	7/8" (22 mm)	2-1/2" (64 mm)
GR30L4BS	GR30L4PS	1-3/8" (35 mm)	3" (76 mm)
GR35L4BS	GR35L4PS	1-7/8" (48 mm)	3-1/2" (89 mm)
GR40L4BS	GR40L4PS	2-3/8" (60 mm)	4" (102 mm)

Minimum order: 1 each. All Railing Corners can be combined for quantity pricing.

29 Degree Lower Incline Corners
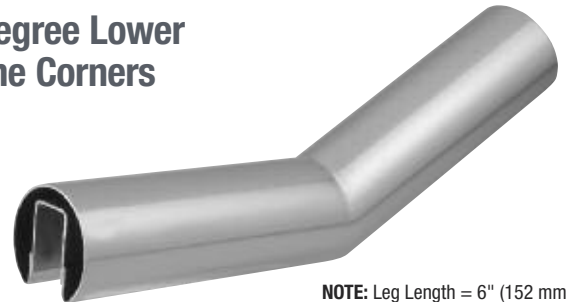
NOTE: Leg Length = 6" (152 mm)

BRUSHED CAT. NO.	POLISHED CAT. NO.	"D" *	RAIL DIAMETER
GR15L29BS	GR15L29PS	5/16" (8 mm)	1-1/2" (38 mm)
GR20L29BS	GR20L29PS	3/8" (10 mm)	2" (51 mm)
GR25L29BS	GR25L29PS	7/8" (22 mm)	2-1/2" (64 mm)
GR30L29BS	GR30L29PS	1-3/8" (35 mm)	3" (76 mm)
GR35L29BS	GR35L29PS	1-7/8" (48 mm)	3-1/2" (89 mm)
GR40L29BS	GR40L29PS	2-3/8" (60 mm)	4" (102 mm)

Minimum order: 1 each. All Railing Corners can be combined for quantity pricing.

32 Degree Lower Incline Corners
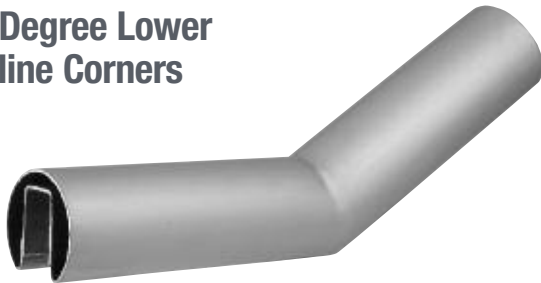
NOTE: Leg Length = 6" (152 mm)

BRUSHED CAT. NO.	POLISHED CAT. NO.	"D" *	RAIL DIAMETER
GR15L32BS	GR15L32PS	5/16" (8 mm)	1-1/2" (38 mm)
GR20L32BS	GR20L32PS	3/8" (10 mm)	2" (51 mm)
GR25L32BS	GR25L32PS	7/8" (22 mm)	2-1/2" (64 mm)
GR30L32BS	GR30L32PS	1-3/8" (35 mm)	3" (76 mm)
GR35L32BS	GR35L32PS	1-7/8" (48 mm)	3-1/2" (89 mm)
GR40L32BS	GR40L32PS	2-3/8" (60 mm)	4" (102 mm)

Minimum order: 1 each. All Railing Corners can be combined for quantity pricing.

35 Degree Lower Incline Corners
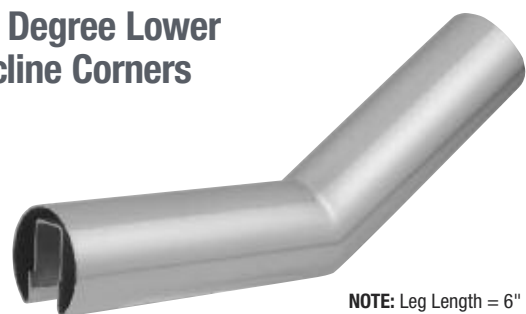
NOTE: Leg Length = 6" (152 mm)

BRUSHED CAT. NO.	POLISHED CAT. NO.	"D" *	RAIL DIAMETER
GR15L35BS	GR15L35PS	5/16" (8 mm)	1-1/2" (38 mm)
GR20L35BS	GR20L35PS	3/8" (10 mm)	2" (51 mm)
GR25L35BS	GR25L29PS	7/8" (22 mm)	2-1/2" (64 mm)
GR30L35BS	GR30L35PS	1-3/8" (35 mm)	3" (76 mm)
GR35L35BS	GR35L35PS	1-7/8" (48 mm)	3-1/2" (89 mm)
GR40L35BS	GR40L35PS	2-3/8" (60 mm)	4" (102 mm)

Minimum order: 1 each. All Railing Corners can be combined for quantity pricing.

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or enter the Catalog Number for complete product information

223B

TOLL Phone: (800) 421-6144
FREE Fax: (800) 262-3299
From Anywhere in the U.S. or Canada

CRL US ALUMINUM

CRL Premium Cap Railing 90 Degree Vertical Corners for 1/2", 9/16", or 5/8" (12, 13.52, or 16 mm) Glass

- Up to Four Architectural Finishes
- New Oval Corner in Mill Aluminum
- Requires Two Connector Sleeves (Not Included)

USE MONOLITHIC TEMPERED GLASS **or** USE LAMINATED TEMPERED GLASS

Interior slip-fit Vertical Corners for 1/2", 9/16", or 5/8" (12, 13.52, or 16 mm) thick glass allow for hairline joint assemblies with straight lengths of CRL Cap Rail. Use of our Cat. No. 7649 Primer and Cat. No. 32629 Metal Contact Cement (see page 239B) is required to achieve a secure and permanent bond. Two Connector Sleeves are required for use with each corner (see page 225B).

Each Vertical Corner is fabricated, finished, and individually packed. All of our stainless and brass corners are fabricated from CRL Premium Cap Rail, and are welded and finished to match. Stainless 316 grade is available on special order. For brass, C260 grade is standard.

- Ready to Install

See page 218B for Vinyl and Rubber Inserts

1-1/2" (38 MM) DIAMETER CORNERS

CAT. NO.	GRADE	FINISH	DIMENSIONS
GR15VBS	304	Brushed Stainless	L=3-3/4" (95 mm)
GR15VPS	304	Polished Stainless	D=5/16" (8 mm)*
GR15VPB	C260	Polished Brass	
GR15VSB	C260	Satin Brass	

Minimum order: 1 each. All Railing Corners can be combined for quantity pricing.

2" (51 MM) DIAMETER CORNERS

CAT. NO.	GRADE	FINISH	DIMENSIONS
GR20VBS	304	Brushed Stainless	L=4" (102 mm)
GR20VPS	304	Polished Stainless	D=3/8" (10 mm)*
GR20VPB	C260	Polished Brass	
GR20VSB	C260	Satin Brass	

Minimum order: 1 each. All Railing Corners can be combined for quantity pricing.

2-1/2" (64 MM) DIAMETER CORNERS

CAT. NO.	GRADE	FINISH	DIMENSIONS
GR25VBS	304	Brushed Stainless	L=4-1/2" (114 mm)
GR25VPS	304	Polished Stainless	D=7/8" (22 mm)*
GR25VPB	C260	Polished Brass	
GR25VSB	C260	Satin Brass	

Minimum order: 1 each. All Railing Corners can be combined for quantity pricing.

3" (76 MM) DIAMETER CORNERS

CAT. NO.	GRADE	FINISH	DIMENSIONS
GR30VBS	304	Brushed Stainless	L=5" (127 mm)
GR30VPS	304	Polished Stainless	D=1-3/8" (35 mm)*
GR30VPB	C260	Polished Brass	
GR30VSB	C260	Satin Brass	

Minimum order: 1 each. All Railing Corners can be combined for quantity pricing.

3-1/2" (89 MM) DIAMETER CORNERS

CAT. NO.	GRADE	FINISH	DIMENSIONS
GR35VBS	304	Brushed Stainless	L=5-1/2" (140 mm)
GR35VPS	304	Polished Stainless	D=1-7/8" (48 mm)*
GR35VPB	C260	Polished Brass	
GR35VSB	C260	Satin Brass	

Minimum order: 1 each. All Railing Corners can be combined for quantity pricing.

4" (102 MM) DIAMETER CORNERS

CAT. NO.	GRADE	FINISH	DIMENSIONS
GR40VBS	304	Brushed Stainless	L=6" (152 mm)
GR40VPS	304	Polished Stainless	D=2-3/8" (60 mm)*
GR40VPB	C260	Polished Brass	
GR40VSB	C260	Satin Brass	

Minimum order: 1 each. All Railing Corners can be combined for quantity pricing.

Diameter / D*

D / L
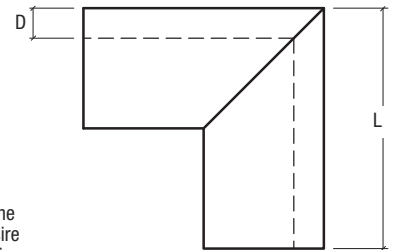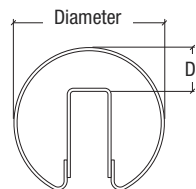
*This dimension is used to calculate the glass size. Add the clearance you desire or add an additional 1/8" (3 mm) if using Cap Rail Vinyl (see page 218B).

Always use proper Connector Sleeves (see page 225B).

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cap-railing Search

224B

or enter the Catalog Number for complete product information

TOLL Phone: (800) 421-6144
FREE Fax: (800) 262-3299
From Anywhere in the U.S. or Canada

CRL US ALUMINUM

CRL Connector Sleeves for Premium Cap Railings, Cap Rail Corners, and Hand Railings

- For 1/2", 9/16", or 5/8" (12, 13.52, or 16 mm) Glass Cap Railings
- Formed, Shaped to Fit, and Ready to Install
- Provides Proper Alignment at Splices

CRL Connector Sleeves are used to connect and provide proper alignment between railing splices and railing-to-corner splices. Connector Sleeves are 5" (127 mm) long, and must be compressed to fit inside the Cap Railing. Use of our Cat. No. 7649 Primer and Cat. No. 32629 Metal Contact Cement (see page 239B) is required to achieve a secure and permanent bond.

IMPORTANT INSTALLATION NOTE:
Always use Connector Sleeves made of the same metal as the Cap Rail, Cap Rail Corner, or Hand Rail metal to be joined.

FOR 1-1/2" (38 MM) DIAMETER ROUND RAILING

CAT. NO.	MATERIAL	1-1/2" (38 MM) FOR USE WITH
GR15CSS	Stainless Steel	GR15BS/GR15PS Cap Rails and all 1-1/2" (38 mm) Stainless Steel Cap Rail Corners. HR15BS/HR15PS 1-1/2" (38 mm) Stainless Steel Hand Rails.
GR15CSB	Brass	GR15PB/GR15SB Cap Rails and all 1-1/2" (38 mm) Brass Cap Rail Corners. HR15PB/HR15SB 1-1/2" (38 mm) Brass Hand Rails.

Minimum order: 1 each. All Connector Sleeves can be combined for quantity pricing.

FOR 1.66" (42 MM) DIAMETER ROUND RAILING

CAT. NO.	MATERIAL	1.66" (42 MM) FOR USE WITH
GR16CSS	Stainless Steel	GR16BS/GR16PS Cap Rails and all 1.66" (42 mm) Stainless Steel Cap Rail Corners.

Minimum order: 1 each. All Connector Sleeves can be combined for quantity pricing.

FOR 2" (51 MM) DIAMETER ROUND RAILING

CAT. NO.	MATERIAL	2" (51 MM) FOR USE WITH
GR20CSS	Stainless Steel	GR20BS/GR20PS/Cap Rails and all 2" (51 mm) Stainless Steel Cap Rail Corners. HR20BS/HR20PS 2" (51 mm) Stainless Steel Hand Rails.
GR20CSB	Brass	GR20PB/GR20SB Cap Rails and all 2" (51 mm) Brass Cap Rail Corners. HR20PB/HR20SB 2" (51 mm) Brass Hand Rails.

Minimum order: 1 each. All Connector Sleeves can be combined for quantity pricing.

FOR 2-1/2" (64 MM) DIAMETER ROUND RAILING

CAT. NO.	MATERIAL	2-1/2" (64 MM) FOR USE WITH
GR25CSS	Stainless Steel	GR25BS/GR25PS/Cap Rails and all 2-1/2" (64 mm) Stainless Steel Cap Rail Corners.
GR25CSB	Brass	GR25PB/GR25SB/Cap Rails and all 2-1/2" (64 mm) Brass Cap Rail Corners.

Minimum order: 1 each. All Connector Sleeves can be combined for quantity pricing.

FOR 3" (76 MM) DIAMETER ROUND RAILING

CAT. NO.	MATERIAL	3" (76 MM) FOR USE WITH
GR30CSS	Stainless Steel	GR30BS/GR30PS/Cap Rails and all 3" (76 mm) Stainless Steel Cap Rail Corners.
GR30CSB	Brass	GR30PB/GR30SB/Cap Rails and all 3" (76 mm) Brass Cap Rail Corners.

Minimum order: 1 each. All Connector Sleeves can be combined for quantity pricing.
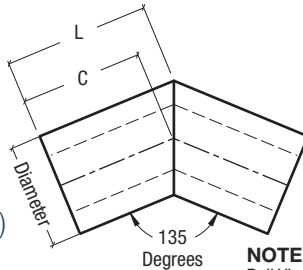
FOR 3-1/2" (89 MM) DIAMETER ROUND RAILING

CAT. NO.	MATERIAL	3-1/2" (89 MM) FOR USE WITH
GR35CSS	Stainless Steel	GR35BS/GR35PS Cap Rails and all 3-1/2" (89 mm) Stainless Steel Cap Rail Corners.
GR35CSB	Brass	GR35PB/GR35SB Cap Rails and all 3-1/2" (89 mm) Brass Cap Rail Corners.

Minimum order: 1 each. All Connector Sleeves can be combined for quantity pricing.

FOR 4" (102 MM) DIAMETER ROUND RAILING

CAT. NO.	MATERIAL	4" (102 MM) FOR USE WITH
GR40CSS	Stainless Steel	GR40BS/GR40PS Cap Rails and all 4" (102 mm) Stainless Steel Cap Rail Corners.
GR40CSB	Brass	GR40PB/GR40SB Cap Rails and all 4" (102 mm) Brass Cap Rail Corners.

Minimum order: 1 each. All Connector Sleeves can be combined for quantity pricing.

Stainless Steel

Brass

Premium Cap Railing
for Thicker Laminated Glass
is Shown on Page 230B

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225B

TOLL Phone: (800) 421-6144
FREE Fax: (800) 262-3299
From Anywhere in the U.S. or Canada

CRL
US ALUMINUM

CRL Premium Cap Rails for 3/4" (19 mm) Glass

- Bumped-Formed and Welded 120" (3.05 m) and 168" (4.27 m) Stock Lengths are Available in Three Diameters and Four Architectural Finishes
- Connect to Fabricated Corners and End Caps
- For Stainless, 304 Grade is Standard; 316 Grade Available on Special Order
- For Brass, C260 Grade is Standard

US ALUMINUM® MANUFACTURED IN THE USA

2" (51 mm)

2-1/2" (64 mm)

3" (76 mm)

Linear Hairline Finish

All CRL Premium Cap Railings are formed using precision tooling to maintain uniform diameters, allowing for smooth hairline transitions at splices, corners, and end caps. The internal channel is spot welded in place every 6" (152 mm) on both sides to increase strength and stability. Use of our Cat. No. 7649 Primer and Cat. No. 32629 Metal Contact Cement (see page 239B) is required to achieve a secure and permanent bond.

Use Connector Sleeves shown on page 229B to connect Cap Rails. Stainless 304 grade is standard; Stainless 316 grade is available on special order. For Brass, C260 grade is standard. Please contact CRL Railing Technical Sales for more information or for a quote.

USE MONOLITHIC TEMPERED GLASS

NOTE: When using GR207, GR257, and GR307 Series Cap Rails, Cat. No. GR7PV Cap Rail Vinyl (see page 229B) and 95CBL Silicone (see page 125B) should be used to secure the glass.

2" (51 MM) DIAMETER PREMIUM CAP RAIL IN 120" (3.05 M) AND 168" (4.27 M) LENGTHS

CAT. NO. 120" (3.05 M)	CAT. NO. 168" (4.27 M)	GRADE	FINISH	THICKNESS	USE SLEEVE NO.
GR207BS	GR207BS14	304	Brushed Stainless	.050" (1.3 mm)	GR20CSS
GR207PS	GR207PS14	304	Polished Stainless	.050" (1.3 mm)	GR20CSS
GR207PB	GR207PB14	C260	Polished Brass	.050" (1.3 mm)	GR20CSB
GR207SB	GR207SB14	C260	Satin Brass	.050" (1.3 mm)	GR20CSB

Minimum order: 1 each. Sizes and finishes can be combined for quantity pricing.

3/8"* (10 mm)

1" (25 mm)

2-1/2" (64 MM) DIAMETER PREMIUM CAP RAIL IN 120" (3.05 M) AND 168" (4.27 M) LENGTHS

CAT. NO. 120" (3.05 M)	CAT. NO. 168" (4.27 M)	GRADE	FINISH	THICKNESS	USE SLEEVE NO.
GR257BS	GR257BS14	304	Brushed Stainless	.0625" (1.6 mm)	GR25CSS
GR257PS	GR257PS14	304	Polished Stainless	.0625" (1.6 mm)	GR25CSS
GR257PB	GR257PB14	C260	Polished Brass	.0625" (1.6 mm)	GR25CSB
GR257SB	GR257SB14	C260	Satin Brass	.0625" (1.6 mm)	GR25CSB

Minimum order: 1 each. Sizes and finishes can be combined for quantity pricing.

7/8"* (22 mm)

See page 229B for Cap Rail Vinyl

1" (25 mm)

3" (76 MM) DIAMETER PREMIUM CAP RAIL IN 120" (3.05 M) AND 168" (4.27 M) LENGTHS

CAT. NO. 120" (3.05 M)	CAT. NO. 168" (4.27 M)	GRADE	FINISH	THICKNESS	USE SLEEVE NO.
GR307BS	GR307BS14	304	Brushed Stainless	.0625" (1.6 mm)	GR30CSS
GR307PS	GR307PS14	304	Polished Stainless	.0625" (1.6 mm)	GR30CSS
GR307PB	GR307PB14	C260	Polished Brass	.0625" (1.6 mm)	GR30CSB
GR307SB	GR307SB14	C260	Satin Brass	.0625" (1.6 mm)	GR30CSB

Minimum order: 1 each. Sizes and finishes can be combined for quantity pricing. Must ship common carrier.

1-3/8"* (35 mm)

1" (25 mm)

*This dimension is used to calculate the glass size. Add the clearance you desire or allow an additional 1/8" (3 mm) if using Cap Rail Vinyl (see page 229B).
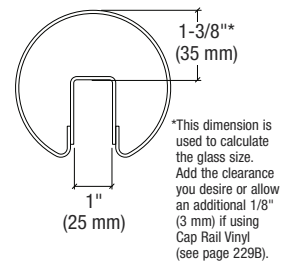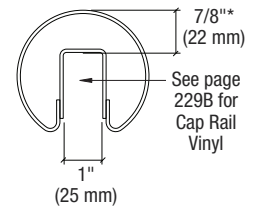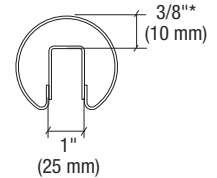
CRL Premium Cap Rail Accessories for 3/4" (19 mm) Glass

Corners

See Page 228B

Connector Sleeves

See Page 229B

End Caps

See Page 227B

Cap Rail Vinyl

See page 229B

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cap-railing Search

226B

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TOLL Phone: (800) 421-6144
FREE Fax: (800) 262-3299
From Anywhere in the U.S. or Canada

CRL US ALUMINUM®

CRL Premium Cap Railing End Caps for 3/4" (19 mm) Glass

CRL US ALUMINUM — MANUFACTURED IN THE USA

- Four Architectural Finishes
- Formed and Shaped to Fit
- Ready to Install

CRL End Caps easily slip into the Cap Railing. Use of our Cat. No. 7649 Primer and Cat. No. 32629 Metal Contact Cement (see page 239B) is required to achieve a secure and permanent bond. Standard stainless is 316 grade. For brass, C260 grade is standard. Contact CRL Technical Sales for more information or a quote.

FOR 2-1/2" (64 MM) DIAMETER PREMIUM CAP RAILING

CAT. NO.	GRADE	GA./THK.	FINISH	FITS CAP RAIL NO.
GR25ECBS	316	20/.035"	Brushed Stainless	GR257BS
GR25ECPS	316	20/.035"	Polished Stainless	GR257PS
GR25ECPB	C260	.045"	Polished Brass	GR257PB
GR25ECSB	C260	.045"	Satin Brass	GR257SB

Minimum order: 1 each. All End Caps can be combined for quantity pricing.

FOR 2" (51 MM) DIAMETER PREMIUM CAP RAILING

CAT. NO.	GRADE	GA./THK.	FINISH	FITS CAP RAIL NO.
GR20ECBS	316	20/.035"	Brushed Stainless	GR207BS
GR20ECPS	316	20/.035"	Polished Stainless	GR207PS
GR20ECPB	C260	.045"	Polished Brass	GR207PB
GR20ECSB	C260	.045"	Satin Brass	GR207SB

Minimum order: 1 each. All End Caps can be combined for quantity pricing.

FOR 3" (76 MM) DIAMETER PREMIUM CAP RAILING

CAT. NO.	GRADE	GA./THK.	FINISH	FITS CAP RAIL NO.
GR30ECBS	316	20/.035"	Brushed Stainless	GR307BS
GR30ECPS	316	20/.035"	Polished Stainless	GR307PS
GR30ECPB	C260	.045"	Polished Brass	GR307PB
GR30ECSB	C260	.045"	Satin Brass	GR307SB

Minimum order: 1 each. All End Caps can be combined for quantity pricing.

CRL Premium Cap Railing Stabilizing End Caps for 3/4" (19 mm) Glass

CRL US ALUMINUM — MANUFACTURED IN THE USA

- Formed and Shaped to Fit
- Ready to Install With Lag Screw
- Four Architectural Finishes

CRL Stabilizing End Caps easily slip into our Cap Railing. Use of our Cat. No. 7649 Primer and Cat. No. 32629 Metal Contact Cement (see page 239B) is required to achieve a secure and permanent bond. Standard stainless is 316 grade. For brass, C260 grade is standard. Includes: 1/4" x 2" (6 x 51 mm) Lag Screw with 1/4" (6 mm) Nylon Spacer.

1/8" (3 mm) Clearance at Wall

1/2" (13 mm) to Edge of Glass

1/8" (3 mm)

CAT. NO. SECB1 Lag Screw with Spacer (Included)

FOR 2-1/2" (64 MM) DIAMETER PREMIUM CAP RAILING

CAT. NO.	GRADE	FINISH	FITS CAP RAIL NO.
GR25SECBS	316	Brushed Stainless	GR257BS
GR25SECPS	316	Polished Stainless	GR257PS
GR25SECPB	C260	Polished Brass	GR257PB
GR25SECSB	C260	Satin Brass	GR257SB

Minimum order: 1 each. All End Caps can be combined for quantity pricing.

FOR 2" (51 MM) DIAMETER PREMIUM CAP RAILING
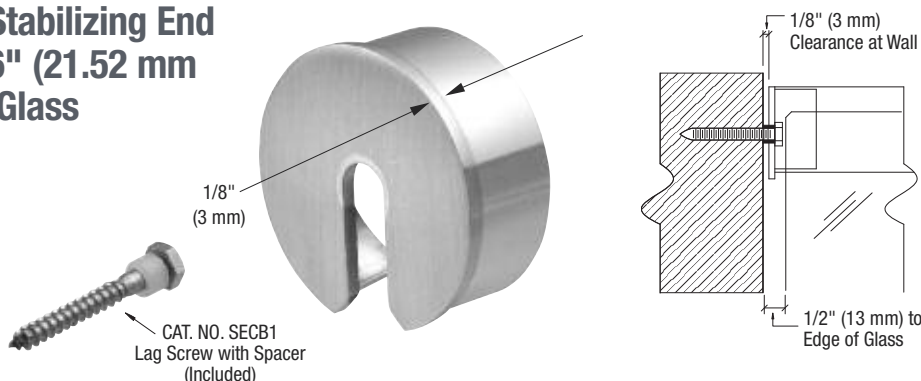
CAT. NO.	GRADE	FINISH	FITS CAP RAIL NO.
GR20SECBS	316	Brushed Stainless	GR207BS
GR20SECPS	316	Polished Stainless	GR207PS
GR20SECPB	C260	Polished Brass	GR207PB
GR20SECSB	C260	Satin Brass	GR207SB

Minimum order: 1 each. All End Caps can be combined for quantity pricing.

FOR 3" (76 MM) DIAMETER PREMIUM CAP RAILING

CAT. NO.	GRADE	FINISH	FITS CAP RAIL NO.
GR30SECBS	316	Brushed Stainless	GR307BS
GR30SECPS	316	Polished Stainless	GR307PS
GR30SECPB	C260	Polished Brass	GR307PB
GR30SECSB	C260	Satin Brass	GR307SB

Minimum order: 1 each. All End Caps can be combined for quantity pricing.

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227B

TOLL Phone: (800) 421-6144
FREE Fax: (800) 262-3299
From Anywhere in the U.S. or Canada

CRL US ALUMINUM

CRL GRS CAP RAILING SYSTEMS

CRL Premium Cap Railing 90 Degree Horizontal Corners for 3/4" (19 mm) Glass

- Ready to Install
- Variety of Architectural Finishes
- Requires Two Connector Sleeves (Not Included)
- Custom Corners Available Upon Request
- Vertical Corners Also Available Go to crlaurence.com

Interior slip-fit Horizontal Corners for 3/4" (19 mm) thick glass allow for hairline joint assemblies with straight lengths of Premium Cap Rail. Use of our Cat. No. 7649 Primer and Cat. No. 32629 Metal Contact Cement (see page 239B) is required to achieve a secure and permanent bond. Two Connector Sleeves are required for use with each corner (see page 229B).

Each Horizontal Corner is fabricated, finished, and individually packed. All of our stainless and brass corners are fabricated from CRL Premium Cap Rail, and are welded and finished to match. Standard stainless is 304 grade. Stainless 316 grade is available on special order. For brass, C260 grade is standard. Please contact CRL Technical Sales for more information or a quote.

NOTE: Our GR7PV Cap Rail Vinyl (see page 229B) and 95CBL Silicone (see page 125B) should be used to secure the glass.

IMPORTANT INSTALLATION NOTE: Always use Connector Sleeves made of the same metal as the Cap Rail, Cap Rail Corner, or Hand Rail metal to be joined (see page 229B).

FOR 2" (51 MM) DIAMETER PREMIUM CAP RAILING

CAT. NO.	GRADE	FINISH	DIMENSIONS
GR207HBS	304	Brushed Stainless	L=4" (102 mm)
GR207HPS	304	Polished Stainless	C=3" (76 mm)
GR207HPB	C260	Polished Brass	
GR207HSB	C260	Satin Brass	

Minimum order: 1 each. All Railing Corners can be combined for quantity pricing.

FOR 2-1/2" (64 MM) DIAMETER PREMIUM CAP RAILING

CAT. NO.	GRADE	FINISH	DIMENSIONS
GR257HBS	304	Brushed Stainless	L=4-1/2" (114 mm)
GR257HPS	304	Polished Stainless	C=3-1/4" (83 mm)
GR257HPB	C260	Polished Brass	
GR257HSB	C260	Satin Brass	

Minimum order: 1 each. All Railing Corners can be combined for quantity pricing.
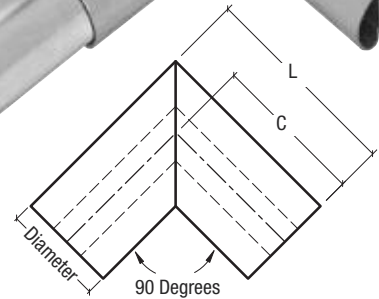
FOR 3" (76 MM) DIAMETER PREMIUM CAP RAILING

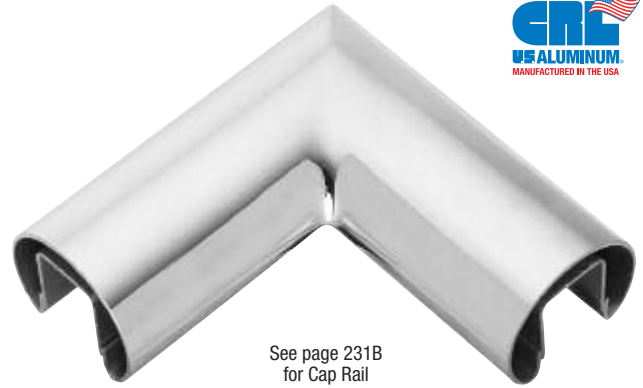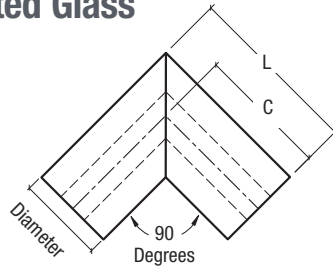| CAT. NO.	GRADE	FINISH	DIMENSIONS
GR307HBS	304	Brushed Stainless	L=5" (127 mm)
GR307HPS	304	Polished Stainless	C=3-1/2" (89 mm)
GR307HPB	C260	Polished Brass	
GR307HSB	C260	Satin Brass	

Minimum order: 1 each. All Railing Corners can be combined for quantity pricing.

CRL Premium Cap Railing 135 Degree Horizontal Corners for 3/4" (19 mm) Glass

- Ready to Install
- Requires Two Connector Sleeves (Not Included)
- Custom Corners Available Upon Request

NOTE: Our GR7PV Cap Rail Vinyl (see page 229B) and 95CBL Silicone (see page 125B) should be used to secure the glass.

IMPORTANT INSTALLATION NOTE: Always use Connector Sleeves made of the same metal as the Cap Rail, Cap Rail Corner, or Hand Rail metal to be joined (see page 229B).

FOR 2" (51 MM) DIAMETER PREMIUM CAP RAILING

CAT. NO.	GRADE	FINISH	DIMENSIONS
GR207H3BS	304	Brushed Stainless	L=2-3/4" (70 mm)
GR207H3PS	304	Polished Stainless	C=2-5/16" (59 mm)
GR207H3PB	C260	Polished Brass	
GR207H3SB	C260	Satin Brass	

Minimum order: 1 each. All Railing Corners can be combined for quantity pricing.

FOR 2-1/2" (64 MM) DIAMETER PREMIUM CAP RAILING

CAT. NO.	GRADE	FINISH	DIMENSIONS
GR257H3BS	304	Brushed Stainless	L=3" (76 mm)
GR257H3PS	304	Polished Stainless	C=2-1/2" (64 mm)
GR257H3PB	C260	Polished Brass	
GR257H3SB	C260	Satin Brass	

Minimum order: 1 each. All Railing Corners can be combined for quantity pricing.

FOR 3" (76 MM) DIAMETER PREMIUM CAP RAILING

CAT. NO.	GRADE	FINISH	DIMENSIONS
GR307H3BS	304	Brushed Stainless	L=5" (127 mm)
GR307H3PS	304	Polished Stainless	C=4-3/8" (111 mm)
GR307H3PB	C260	Polished Brass	
GR307H3SB	C260	Satin Brass	

Minimum order: 1 each. All Railing Corners can be combined for quantity pricing.

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TOLL Phone: (800) 421-6144
FREE Fax: (800) 262-3299
From Anywhere in the U.S. or Canada

CRL Connector Sleeves for Premium Cap Railings, Cap Rail Corners, and Hand Railings

- For 3/4" (19 mm) Glass Cap Railings
- Formed, Shaped to Fit, and Ready to Install
- Provides Proper Alignment at Splices

CRL Connector Sleeves are used to connect and provide proper alignment between railing splices and railing-to-corner splices. Connector Sleeves are 5" (127 mm) long, and must be compressed to fit inside the Cap Railing. Use of our Cat. No. 7649 Primer and Cat. No. 32629 Metal Contact Cement (see page 239B) is required to achieve a secure and permanent bond.

IMPORTANT INSTALLATION NOTE: Always use Connector Sleeves made of the same metal as the Cap Rail, Cap Rail Corner, or Hand Rail metal to be joined.

FOR 2" (51 MM) DIAMETER ROUND RAILING

CAT. NO.	MATERIAL	2" (51 MM) FOR USE WITH
GR20CSS	Stainless Steel	GR207BS/GR207PS Cap Rails and all 2" (51 mm) Stainless Steel Cap Rail Corners. HR20BS/HR20PS 2" (51 mm) Stainless Steel Hand Rails.
GR20CSB	Brass	GR207PB/GR207SB Cap Rails and all 2" (51 mm) Brass Cap Rail Corners. HR20PB/HR20SB 2" (51 mm) Brass Hand Rails.

Minimum order: 1 each. All Connector Sleeves can be combined for quantity pricing.

FOR 2-1/2" (64 MM) DIAMETER ROUND RAILING

CAT. NO.	MATERIAL	2-1/2" (64 MM) FOR USE WITH
GR25CSS	Stainless Steel	GR257BS/GR257PS Cap Rails and all 2-1/2" (64 mm) Stainless Steel Cap Rail Corners.
GR25CSB	Brass	GR257PB/GR257SB Cap Rails and all 2-1/2" (64 mm) Brass Cap Rail Corners.

Minimum order: 1 each. All Connector Sleeves can be combined for quantity pricing.

Stainless Steel

FOR 3" (76 MM) DIAMETER ROUND RAILING

CAT. NO.	MATERIAL	3" (76 MM) FOR USE WITH
GR30CSS	Stainless Steel	GR307BS/GR307PS Cap Rails and all 3" (76 mm) Stainless Steel Cap Rail Corners.
GR30CSB	Brass	GR307PB/GR307SB Cap Rails and all 3" (76 mm) Brass Cap Rail Corners.

Minimum order: 1 each. All Connector Sleeves can be combined for quantity pricing.

Brass

CRL Cap Rail Rigid Vinyl Insert

- For Use With 3/4" (19 mm) Glass
- Rigid Black Vinyl Provides Protective Barrier Between Metal Cap and Glass
- Helps to Align Glass Panels During Installation

USE MONOLITHIC TEMPERED GLASS

CRL Cap Rail Rigid Vinyl Inserts should be used with all CRL Cap Rails and U-Channel Caps to provide a protective barrier between metal and glass. The Rigid Vinyl Insert is useful in temporarily aligning the glass panels until the final installation of Cap Rail or U-Channel. Use 95CBL Silicone (see page 125B) to secure the Rigid Vinyl inside the pocket of the Cap Rail and also to the glass.

CAT. NO.	USE WITH	"W" WIDTH	"H" HEIGHT	LENGTH
GR7PV	3/4" (19 mm) Glass	3/4" (19 mm)	1-3/16" (30 mm)	120" (3.05 m)

Minimum order: 1 stock length. Sizes can be combined for quantity pricing. A Packing Charge will be added to orders of fewer than five combined lengths. Stock lengths longer than 108" (2.14 m) must ship common carrier, unless you specify we cut them for U.P.S. A Cutting Charge will apply.

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TOLL Phone: (800) 421-6144
FREE Fax: (800) 262-3299
From Anywhere in the U.S. or Canada

CRL US ALUMINUM

CRL Premium Cap Rails for 27/32" (21.52 mm) and 1-1/16" (25.52 mm) Laminated Glass

US ALUMINUM®
MANUFACTURED IN THE USA

USE LAMINATED TEMPERED GLASS

- Bump-Formed and Welded 118-1/8" (3 m) Stock Lengths are Available in Two Diameters and Four Architectural Finishes
- Connect to Fabricated Corners and End Caps
- Cut to Size or Custom Fabricated Lengths
- 316 Grade is Standard for Stainless

All CRL Premium Cap Rails for Laminated Glass are formed using precision tooling to maintain uniform profiles, allowing for smooth hairline transitions at splices, corners, and end caps. The internal channel is spot welded in place every 6" (152 mm) on both sides to increase strength and stability. Both Cap Rails support 27/32" (21.52 mm) and 1-1/16" (25.52 mm) laminated glass thicknesses by using CRL Protective Rubber Inserts (see page 231B). Use of our Cat. No. 7649 Primer and Cat. No. 32629 Metal Contact Cement (see page 239B) is required to achieve a secure and permanent bond.

2" (51 mm)

2-1/2" (64 mm)

Linear Hairline Finish

1/2" (13 mm)*

1-1/4" (32 mm)

5/8" (16 mm)*

1-1/4" (32 mm)

See page 231B for Cap Rail Rubber Inserts

2" (51 MM) DIAMETER PREMIUM CAP RAIL IN 118-1/8" (3 M) LENGTHS

CAT. NO.	GRADE	FINISH	THICKNESS	USE SLEEVE NO.
LR20BS	316	Brushed Stainless	.050" (1.3 mm)	L20CSS
LR20PS	316	Polished Stainless	.050" (1.3 mm)	L20CSS
LR20PB	C260	Polished Brass	.050" (1.3 mm)	L20CSB
LR20SB	C260	Satin Brass	.050" (1.3 mm)	L20CSB

Minimum order: 1 each. Sizes and finishes can be combined for quantity pricing.
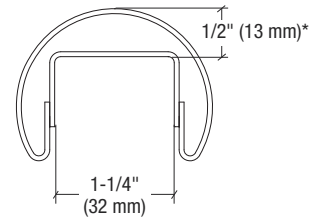
2-1/2" (64 MM) DIAMETER PREMIUM CAP RAIL IN 118-1/8" (3 M) LENGTHS

CAT. NO.	GRADE	FINISH	THICKNESS	USE SLEEVE NO.
LR25BS	316	Brushed Stainless	.050" (1.3 mm)	L25CSS
LR25PS	316	Polished Stainless	.050" (1.3 mm)	L25CSS
LR25PB	C260	Polished Brass	.050" (1.3 mm)	L25CSB
LR25SB	C260	Satin Brass	.050" (1.3 mm)	L25CSB

Minimum order: 1 each. Sizes and finishes can be combined for quantity pricing.
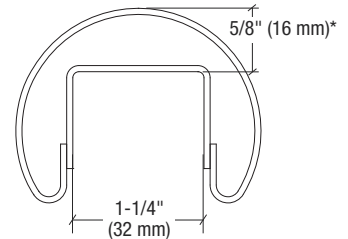
* This dimension is used to calculate the glass size. Add the clearance you desire or add an additional 1/8" (3 mm) if using Cap Rail Rubber Insert (see page 231B).

CRL Premium Cap Rail Accessories for Laminated Glass

Corners

See Pages 232B-233B

Connector Sleeves

See Page 232B

End Caps

See Page 231B

Contact Cement

See Page 239B

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TOLL Phone: (800) 421-6144
FREE Fax: (800) 262-3299
From Anywhere in the U.S. or Canada

CRL US ALUMINUM®

CRL GRS CAP RAILING SYSTEMS

CRL Premium Cap Railing End Caps for 27/32" and 1-1/16" (21.52 mm and 25.52 mm) Laminated Glass

- Formed and Shaped to Fit
- Ready to Install

This CRL End Cap easily slips into the Cap Railing. Use of our Cat. No. 7649 Primer and Cat. No. 32629 Metal Contact Cement (see page 239B) is required to achieve a secure and permanent bond. Standard stainless is 316 grade. C260 grade is standard for brass.

CAT. NO. FOR 2" (51 MM)	CAT. NO. FOR 2-1/2" (64 MM)	GRADE	FINISH
LR20ECBS	LR25ECBS	316	Brushed Stainless
LR20ECPS	LR25ECPS	316	Polished Stainless
LR20ECPB	LR25ECPB	C260	Polished Brass
LR20ECSB	LR25ECSB	C260	Satin Brass

Minimum order: 1 each. All End Caps can be combined for quantity pricing.

CRL Premium Cap Railing Stabilizing End Caps for 27/32" and 1-1/16" (21.52 mm and 25.52 mm) Laminated Glass

- Formed and Shaped to Fit Cap Railing
- Ready to Install With Lag Screw

1/8" (3 mm)

CAT. NO. SECB1 Lag Screw with Spacer (Included)

1/8" (3 mm) Clearance at Wall

1/2" (13 mm) to Edge of Glass

CRL Stabilizing End Caps easily slip into our Cap Railing. Use of our Cat. No. 7649 Primer and Cat. No. 32629 Metal Contact Cement (see page 239B) is required to achieve a secure and permanent bond. Standard stainless is 316 grade. For brass, C260 grade is standard. Includes 1/4" x 2" (6 x 51 mm) Lag Screw with 1/4" (6 mm) Nylon Spacer.

CAT. NO. FOR 2" (51 MM)	CAT. NO. FOR 2-1/2" (64 MM)	GRADE	FINISH
LR20SECBS	LR25SECBS	316	Brushed Stainless
LR20SECPS	LR25SECPS	316	Polished Stainless
LR20SECPB	LR25SECPB	C260	Polished Brass
LR20SECSB	LR25SECSB	C260	Satin Brass

Minimum order: 1 each. All End Caps can be combined for quantity pricing.

CRL Cap Rail Rubber Inserts

- Provides Secure Fit Between Glass and Cap Rail

1-1/8" (29 mm)
13/32" (10 mm)
3/4" (19 mm)
CAT. NO. LR56PV

7/8" (22 mm)
23/32" (18 mm)
1-7/32" (31 mm)
CAT. NO. LR21PV

7/8" (22 mm)
7/8" (22 mm)
1-7/32" (31 mm)
CAT. NO. LR22PV

CRL Cap Rail Rubber Inserts are made of a flexible black rubber designed for our Cap Rails when using 9/16", 27/32", or 1-1/16" (13.52, 21.52, or 25.52 mm) laminated glass. **NOTE:** For glass deductions go to **crlaurence.com/cap-railing**.
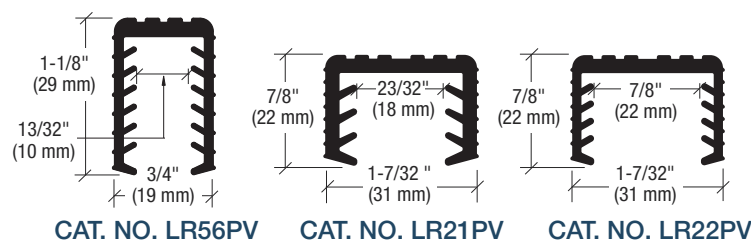
CAT. NO.	FITS CAP RAILS	USE WITH LAMINATED	ROLL LENGTH
LR56PV	GR19, GR20, GR25, GR30, GR35, GR40, GR0V4 Series	9/16" (13.52 mm) Glass	100' (30.5 m)
LR21PV	LR20 Series	27/32" (21.52 mm) Glass	100' (30.5 m)
LR22PV	LR20 Series	1-1/16" (25.52 mm) Glass	100' (30.5 m)
LR251PV	LR25 Series	27/32" (21.52 mm) Glass	100' (30.5 m)
LR252PV	LR25 Series	1-1/16" (25.52 mm) Glass	100' (30.5 m)

Minimum order: 1 roll.

1-1/8" (29 mm)
23/32" (18 mm)
1-5/16" (34 mm)
CAT. NO. LR251PV
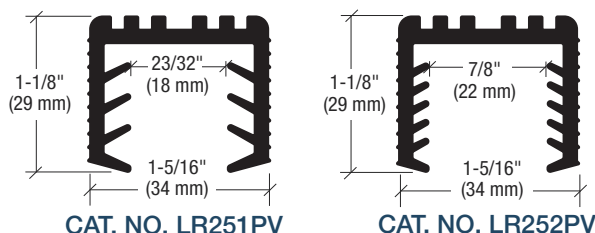
1-1/8" (29 mm)
7/8" (22 mm)
1-5/16" (34 mm)
CAT. NO. LR252PV

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231B

TOLL Phone: (800) 421-6144
FREE Fax: (800) 262-3299
From Anywhere in the U.S. or Canada

CRL US ALUMINUM

CRL Premium Cap Railing
90 Degree Horizontal Corners for
27/32" and 1-1/16" (21.52 mm
and 25.52 mm) Laminated Glass

- Welded and Finished
- Four Architectural Finishes
- Ready to Install
- Requires Two Connector Sleeves (Not Included)

See page 231B
for Cap Rail
Rubber Inserts

This CRL slip-fit Horizontal Corner for 27/32" or 1-1/16" (21.52 mm and 25.52 mm) thick laminated glass allows for hairline joint assemblies with straight lengths of Premium Cap Railing. Use of our Cat. No. 7649 Primer and Cat. No. 32629 Metal Contact Cement (see page 239B) is required to achieve a secure and permanent bond. Two Connector Sleeves are required for use with each Corner.

FOR 2" (51 MM) DIAMETER PREMIUM CAP RAILING

CAT. NO.	GRADE	FINISH	DIMENSIONS
L20HBS	316	Brushed Stainless	L = 4" (102 mm)
L20HPS	316	Polished Stainless	C = 3" (76 mm)
L20HPB	C260	Polished Brass	
L20HSB	C260	Satin Brass	

Minimum order: 1 each. All Railing Corners can be combined for quantity pricing.

FOR 2-1/2" (64 MM) DIAMETER PREMIUM CAP RAILING

CAT. NO.	GRADE	FINISH	DIMENSIONS
L25HBS	316	Brushed Stainless	L = 4-1/2" (114 mm)
L25HPS	316	Polished Stainless	C = 3-1/4" (83 mm)
L25HPB	C260	Polished Brass	
L25HSB	C260	Satin Brass	

Minimum order: 1 each. All Railing Corners can be combined for quantity pricing.

USE LAMINATED TEMPERED GLASS

IMPORTANT INSTALLATION NOTE:
Always use Connector Sleeves made of the same metal as the Cap Rail, Cap Rail Corner, or Hand Rail metal to be joined.

CRL Connector Sleeves for Premium Cap Railings
and Cap Rail Corners for Laminated Glass

- Formed and Shaped to Fit
- Ready to Install
- Provide Proper Alignment at Splices

Stainless Steel
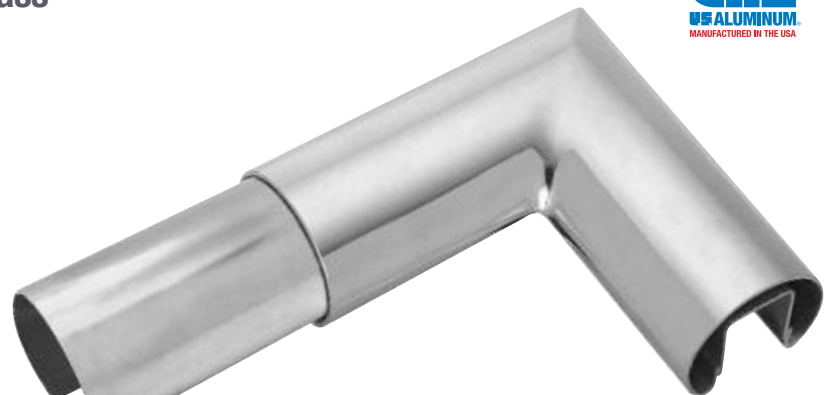
Brass

IMPORTANT INSTALLATION NOTE:
Always use Connector Sleeves made of the same metal as the Cap Rail, Cap Rail Corner, or Hand Rail metal to be joined.

CRL Cap Railing Connector Sleeves are used to connect and provide proper alignment between railing splices and rail-to-center splices. Connector Sleeves are 5" (127 mm) long, and must be compressed to fit inside the Cap Railing. Use of our Cat. No. 7649 Primer and Cat. No. 32629 Metal Contact Cement (see page 239B) is required to achieve a secure and permanent bond.

CAT. NO.	MATERIAL	FOR USE WITH
L20CSS	Stainless Steel	2" (51 mm) LR20 Cap Railing and Corners
L25CSS	Stainless Steel	2-1/2" (64 mm) LR25 Cap Railing and Corners
L20CSB	Brass	2" (51 mm) LR20 Cap Railing and Corners
L25CSB	Brass	2-1/2" (64 mm) LR25 Cap Railing and Corners

Minimum order: 1 each. All Connector Sleeves can be combined for quantity pricing.

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or enter the Catalog Number for complete product information

TOLL Phone: (800) 421-6144
FREE Fax: (800) 262-3299
From Anywhere in the U.S. or Canada

CRL GRS CAP RAILING SYSTEMS

CRL Premium Cap Railing 90 Degree Vertical Corners for 27/32" and 1-1/16" (21.52 mm and 25.52 mm) Laminated Glass

- Ready to Install
- Variety of Architectural Finishes
- Requires Two Connector Sleeves (Not Included)
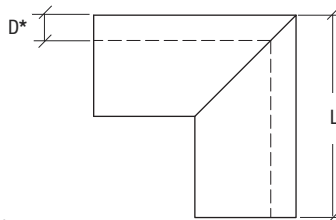
USE LAMINATED TEMPERED GLASS

CRL's 90 Degree Vertical Corners for 27/32" and 1-1/16" (21.52 mm and 25.52 mm) thickness laminated glass allow hairline joint assemblies with straight lengths of CRL Laminated Glass Premium Cap Railing. Use of our Cat. No. 7649 Primer and Cat. No. 32629 Metal Contact Cement (see page 239B) is required to achieve a secure and permanent bond. Each Vertical Corner is fabricated, finished, and individually packed. Please Contact CRL's Railing Technical Sales for more information or a quote.

See page 231B for Cap Rail Rubber Inserts

2" (51 MM) DIAMETER VERTICAL CORNERS

CAT. NO.	GRADE	FINISH	DIMENSIONS
LR20VBS	316	Brushed Stainless	L = 4" (102 mm)
LR20VPS	316	Polished Stainless	D = 3/8" (10 mm)
LR20VPB	C260	Polished Brass	
LR20VSB	C260	Satin Brass	

Minimum order: 1 each. All Railing Corners can be combined for quantity pricing.

*This dimension is used to calculate the glass size. Add the clearance you desire or add an additional 1/8" (3 mm) if using Cap Rail Rubber Insert (see page 231B).

CRL Premium Cap Railing 135 Degree Horizontal Corners for 27/32" and 1-1/16" (21.52 mm and 25.52 mm) Laminated Glass

- Welded and Finished
- Four Architectural Finishes
- Ready to Install
- Requires Two Connector Sleeves (Not Included)

See page 231B for Cap Rail Rubber Inserts

This CRL slip-fit Horizontal Corner for 27/32" or 1-1/16" (21.52 mm and 25.52 mm) thick laminated glass allows for hairline joint assemblies with straight lengths of CRL Cap Railing. Use of our Cat. No. 7649 Primer and Cat. No. 32629 Metal Contact Cement (see page 239B) is required to achieve a secure and permanent bond. Two Connector Sleeves are required for use with each Corner.

FOR 2" (51 MM) DIAMETER PREMIUM CAP RAILING

CAT. NO.	GRADE	FINISH	DIMENSIONS
L20H3BS	316	Brushed Stainless	L = 2-3/4" (70 mm)
L20H3PS	316	Polished Stainless	C = 2-5/16" (59 mm)
L20H3PB	C260	Polished Brass	
L20H3SB	C260	Satin Brass	

Minimum order: 1 each. All Railing Corners can be combined for quantity pricing.

FOR 2-1/2" (64 MM) DIAMETER PREMIUM CAP RAILING

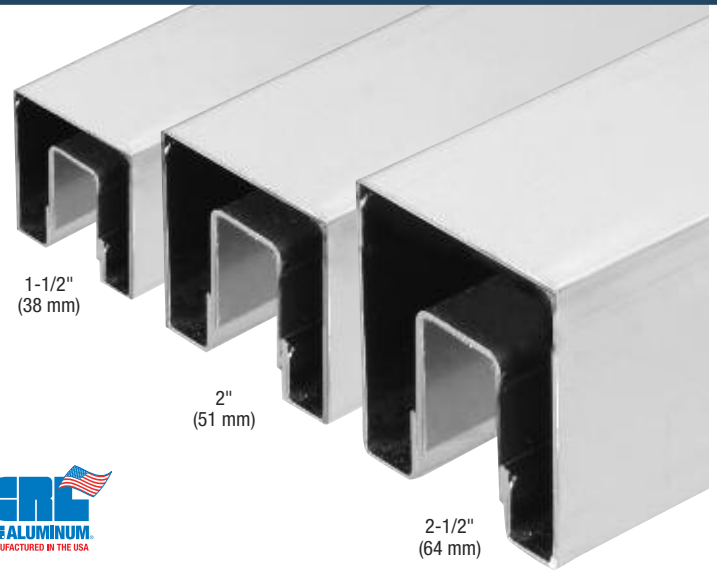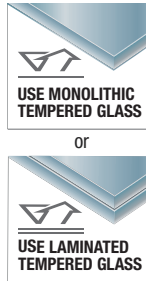| CAT. NO.	GRADE	FINISH	DIMENSIONS
L25H3BS	316	Brushed Stainless	L = 3" (76 mm)
L25H3PS	316	Polished Stainless	C = 2-1/2" (64 mm)
L25H3PB	C260	Polished Brass	
L25H3SB	C260	Satin Brass	

Minimum order: 1 each. All Railing Corners can be combined for quantity pricing.

IMPORTANT INSTALLATION NOTE:
Always use Connector Sleeves made of the same metal as the Cap Rail, Cap Rail Corner, or Hand Rail metal to be joined (see page 232B).

135 Degrees

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TOLL Phone: (800) 421-6144
FREE Fax: (800) 262-3299
From Anywhere in the U.S. or Canada

CRL
US ALUMINUM
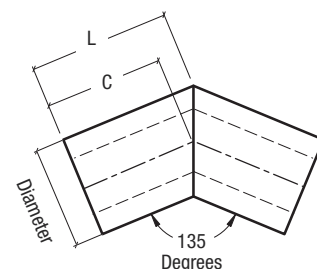
CRL Premium Square Cap Rails for 1/2", 9/16", and 5/8" (12, 13.52, and 16 mm) Glass

- 120" (3.05 m) Stock Lengths Available in Three Sizes and Two Architectural Finishes
- Compatible With Premium Corners
- Profiles Ranging From 1-1/2" (38 mm) to 2-1/2" (64 mm) in Size
- 304 Grade Stainless is Standard; 316 Grade Available on Special Order

USE MONOLITHIC TEMPERED GLASS

or

USE LAMINATED TEMPERED GLASS

All CRL Premium Square Cap Rails are formed using precision tooling to maintain uniform profiles, allowing for smooth hairline transitions at splices, corners, and end caps. The internal channel is spot welded every 6" (152 mm) on both sides to increase strength and stability. Use of our Cat. No. 7649 Primer and Cat. No. 32629 Metal Contact Cement (see page 239B) is required to achieve a secure and permanent bond at all connections.

1-1/2" (38 mm)

2" (51 mm)

2-1/2" (64 mm)

CRL US ALUMINUM
MANUFACTURED IN THE USA

*This dimension is used to calculate the glass size. Add the clearance you desire or add an additional 1/8" (3 mm) if using Cap Rail Rubber Insert (see page 239B).

1/2"* (13 mm)
5/8" (16 mm)
* For Glazing Vinyls and Inserts, See Page 239B.

1/2"* (13 mm)
3/4" (19 mm)
* For Glazing Vinyls and Inserts, See Page 239B.
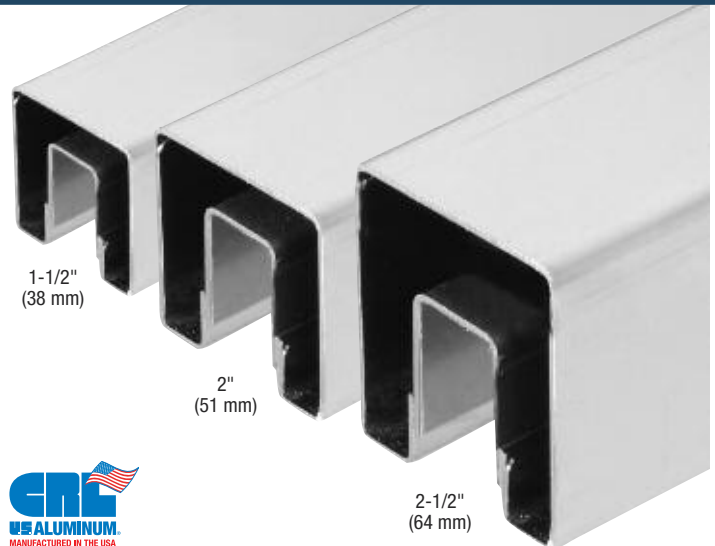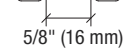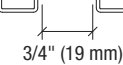
1"* (25 mm)
3/4" (19 mm)
* For Glazing Vinyls and Inserts, See Page 239B.
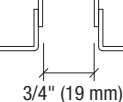
1-1/2" (38 MM) PREMIUM SQUARE CAP RAIL IN 120" (3.05 M) LENGTHS

CAT. NO.	GRADE	FINISH	THICKNESS	USE SLEEVE NO.
GRS15BS	304	Brushed Stainless	.050" (1.3 mm)	GRS15CSS
GRS15PS	304	Polished Stainless	.050" (1.3 mm)	GRS15CSS

Minimum order: 1 each. Sizes and finishes can be combined for quantity pricing. Must ship common carrier.
NOTE: 1-1/2" (38 mm) Square Premium Cap Rail works only with 1/2" (12 mm) glass, secured with 95CBL Silicone and Shims.

2" (51 MM) PREMIUM SQUARE CAP RAIL IN 120" (3.05 M) LENGTHS

CAT. NO.	GRADE	FINISH	THICKNESS	USE SLEEVE NO.
GRS20BS	304	Brushed Stainless	.050" (1.3 mm)	GRS20CSS
GRS20PS	304	Polished Stainless	.050" (1.3 mm)	GRS20CSS

Minimum order: 1 each. Sizes and finishes can be combined for quantity pricing. Must ship common carrier.

2-1/2" (64 MM) PREMIUM SQUARE CAP RAIL IN 120" (3.05 M) LENGTHS

CAT. NO.	GRADE	FINISH	THICKNESS	USE SLEEVE NO.
GRS25BS	304	Brushed Stainless	.0625" (1.6 mm)	GRS25CSS
GRS25PS	304	Polished Stainless	.0625" (1.6 mm)	GRS25CSS

Minimum order: 1 each. Sizes and finishes can be combined for quantity pricing. Must ship common carrier.

CRL Premium Square 90 Degree Horizontal Corners for 1/2", 9/16", and 5/8" (12, 13.52, and 16 mm) Glass

FOR 1-1/2" (38 MM) SQUARE CAP RAILING

CAT. NO.	GRADE	FINISH	DIMENSIONS
GRS15HBS	304	Brushed Stainless	L= 3-3/4" (95 mm)
GRS15HPS	304	Polished Stainless	C= 3" (76 mm)

Minimum order: 1 each. All Railing Corners can be combined for quantity pricing.
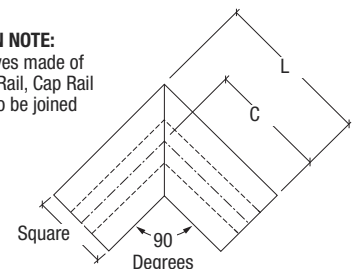
FOR 2" (51 MM) SQUARE CAP RAILING

CAT. NO.	GRADE	FINISH	DIMENSIONS
GRS20HBS	304	Brushed Stainless	L= 4" (102 mm)
GRS20HPS	304	Polished Stainless	C= 3" (76 mm)

Minimum order: 1 each. All Railing Corners can be combined for quantity pricing.

FOR 2-1/2" (64 MM) SQUARE CAP RAILING

CAT. NO.	GRADE	FINISH	DIMENSIONS
GRS25HBS	304	Brushed Stainless	L= 4-1/2" (114 mm)
GRS25HPS	304	Polished Stainless	C= 3-1/4" (83 mm)

Minimum order: 1 each. All Railing Corners can be combined for quantity pricing.

IMPORTANT INSTALLATION NOTE:
Always use Connector Sleeves made of the same metal as the Cap Rail, Cap Rail Corner, or Hand Rail metal to be joined (see page 236B).

CRL US ALUMINUM
MANUFACTURED IN THE USA

See page 239B for Vinyl and Rubber Inserts

L
C
Square
90 Degrees

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234B

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FREE Fax: (800) 262-3299
From Anywhere in the U.S. or Canada

CRL US ALUMINUM
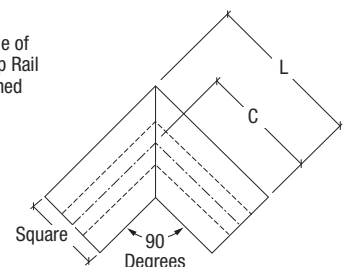
CRL End Caps for Premium Square Cap Railings

- 316 Grade Stainless Steel
- Formed and Shaped to Fit, Ready to Install

CRL Premium Square End Caps easily slip into the Premium Square Cap Railing. Use of our Cat. No. 7649 Primer and Cat. No. 32629 Metal Contact Cement (see page 239B) is required to achieve a secure and permanent bond. Standard stainless is 316 grade.
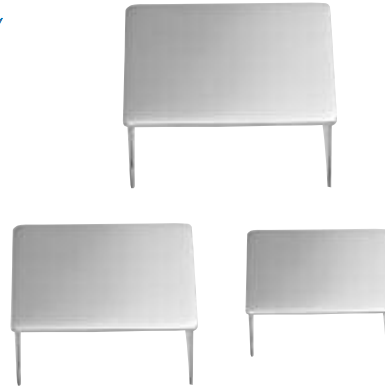
FOR 1-1/2" (38 MM) SQUARE CAP RAILING

CAT. NO.	GRADE	FINISH	FITS CAP RAIL NO.
GRS15ECBS	316	Brushed Stainless	GRS15BS
GRS15ECPS	316	Polished Stainless	GRS15PS

Minimum order: 1 each. All End Caps can be combined for quantity pricing.

FOR 2" (51 MM) SQUARE CAP RAILING

CAT. NO.	GRADE	FINISH	FITS CAP RAIL NO.
GRS20ECBS	316	Brushed Stainless	GRS20BS
GRS20ECPS	316	Polished Stainless	GRS20PS

Minimum order: 1 each. All End Caps can be combined for quantity pricing.
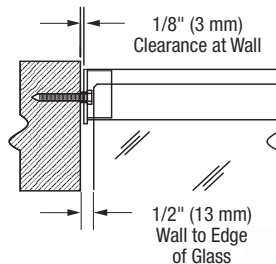
FOR 2-1/2" (64 MM) PREMIUM SQUARE CAP RAILING

CAT. NO.	GRADE	FINISH	FITS CAP RAIL NO.
GRS25ECBS	316	Brushed Stainless	GRS25BS
GRS25ECPS	316	Polished Stainless	GRS25PS

Minimum order: 1 each. All End Caps can be combined for quantity pricing.

CRL Stabilizing End Caps for Premium Square Cap Railings

- 316 Grade Stainless Steel
- Formed and Shaped to Fit

CRL Premium Square Stabilizing End Caps easily slip into our Premium Square Cap Railing. Use of our Cat. No. 7649 Primer and Cat. No. 32629 Metal Contact Cement (see page 239B) is required to achieve a secure and permanent bond. Standard stainless is 316 grade. Includes: 1/4" x 2" (6 x 51 mm) Lag Screw with 1/4" (6 mm) Nylon Spacer.

1/8" (3 mm) Clearance at Wall
1/2" (13 mm) Wall to Edge of Glass
1/8" (3 mm)
CAT. NO. SECB1 Lag Screw with Spacer (Included)
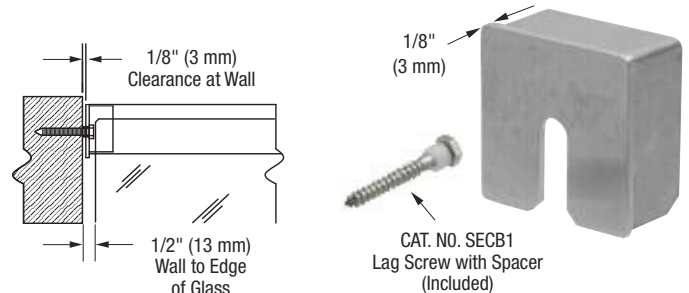
FOR 2" (51 MM) SQUARE CAP RAILING

CAT. NO.	GRADE	FINISH	FITS CAP RAIL NO.
GRS20SECBS	316	Brushed Stainless	GRS20BS
GRS20SECPS	316	Polished Stainless	GRS20PS

Minimum order: 1 each. All End Caps can be combined for quantity pricing.

FOR 1-1/2" (38 MM) SQUARE CAP RAILING

CAT. NO.	GRADE	FINISH	FITS CAP RAIL NO.
GRS15SECBS	316	Brushed Stainless	GRS15BS
GRS15SECPS	316	Polished Stainless	GRS15PS

Minimum order: 1 each. All End Caps can be combined for quantity pricing.

FOR 2-1/2" (64 MM) SQUARE CAP RAILING

CAT. NO.	GRADE	FINISH	FITS CAP RAIL NO.
GRS25SECBS	316	Brushed Stainless	GRS25BS
GRS25SECPS	316	Polished Stainless	GRS25PS

Minimum order: 1 each. All End Caps can be combined for quantity pricing.

CRL Custom Profile Crisp Corner Cap Rails

- New Crisp Corner Design Custom Formed in Brushed and Polished Stainless Steel
- 304 Grade 16 Gauge is Standard; 316 Grade on Special Order
- For 1/2", 9/16", and 5/8" (12, 13.52, and 16 mm) Glass

Our V-Groove machine gives us the capability to create Cap Rails in custom rectangular and square profiles. At right are two of our newest offerings, but we can also make profiles to meet your exact needs. Contact CRL Railing Technical Sales for more information or a quote.

2" (51 mm)
1-1/2" (38 mm)
3" (76 mm)
3/4" (19 mm)
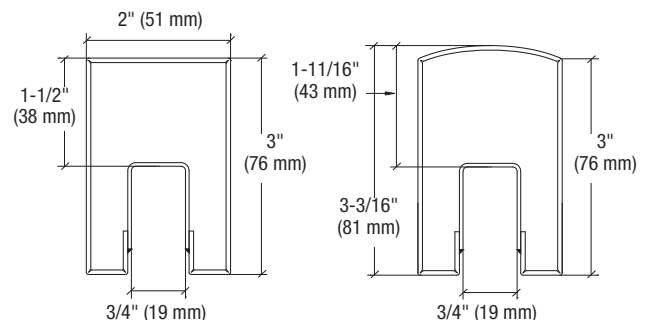
GRSC3 Series
Crisp Corners with Flat Top

1-11/16" (43 mm)
3" (76 mm)
3-3/16" (81 mm)
3/4" (19 mm)

GRSCR3 Series
Crisp Corners with Radius Top

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235B

TOLL Phone: (800) 421-6144
FREE Fax: (800) 262-3299
From Anywhere in the U.S. or Canada

CRL U.S. ALUMINUM

CRL Premium Square 135 Degree Horizontal Corners for 1/2", 9/16", and 5/8" (12, 13.52, and 16 mm) Glass

USE MONOLITHIC TEMPERED GLASS

or

USE LAMINATED TEMPERED GLASS

See page 239B for Vinyl and Rubber Inserts

FOR 1-1/2" (38 MM) SQUARE CAP RAILING

CAT. NO.	GRADE	FINISH	DIMENSIONS
GRS15H3BS	304	Brushed Stainless	L= 2-1/2" (64 mm)
GRS15H3PS	304	Polished Stainless	C= 2-3/16" (56 mm)

Minimum order: 1 each. All Railing Corners can be combined for quantity pricing.

FOR 2" (51 MM) SQUARE CAP RAILING

CAT. NO.	GRADE	FINISH	DIMENSIONS
GRS20H3BS	304	Brushed Stainless	L= 2-3/4" (70 mm)
GRS20H3PS	304	Polished Stainless	C= 2-5/16" (59 mm)

Minimum order: 1 each. All Railing Corners can be combined for quantity pricing.

FOR 2-1/2" (64 MM) SQUARE CAP RAILING

CAT. NO.	GRADE	FINISH	DIMENSIONS
GRS25H3BS	304	Brushed Stainless	L= 3" (76 mm)
GRS25H3PS	304	Polished Stainless	C= 2-1/2" (64 mm)

Minimum order: 1 each. All Railing Corners can be combined for quantity pricing.

Always use proper Connector Sleeves (see page below).

L
C
Square
135 Degrees
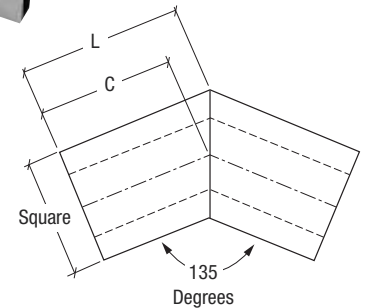
CRL Connector Sleeves for Premium Square and Crisp Corner Cap Rails

- Formed and Shaped to Fit, Ready to Install in Both Premium and Crisp Corner Square Cap Rails
- Provide Proper Alignment at Splices

CRL Square Connector Sleeves are used to connect and provide proper alignment between square railing splices and square railing-to-corner splices. Square Connector Sleeves are 5" (127 mm) long, and must be compressed to fit inside the Cap Railing. Use of our Cat. No. 7649 Primer and Cat. No. 32629 Metal Contact Cement (see page 239B) is required to achieve a secure and permanent bond.

FOR 1-1/2" (38 MM) SQUARE CAP RAILING

CAT. NO.	MATERIAL	1-1/2" (38 MM) FOR USE WITH
GRS15CSS	Stainless Steel	GRS15BS/GRS15PS/GRSC15BS/GRSC15PS Cap Rails and all 1-1/2" (38 mm) Square Stainless Steel Cap Rail Corners

FOR 2" (51 MM) SQUARE CAP RAILING

CAT. NO.	MATERIAL	2" (51 MM) FOR USE WITH
GRS20CSS	Stainless Steel	GRS20BS/GRS20PS/GRSC20BS/GRSC20PS Cap Rails and all 2" (51 mm) Square Stainless Steel Cap Rail Corners

FOR 2-1/2" (64 MM) SQUARE CAP RAILING

CAT. NO.	MATERIAL	2-1/2" (64 MM) FOR USE WITH
GRS25CSS	Stainless Steel	GRS25BS/GRS25PS/GRSC25BS/GRSC25PS Cap Rails and all 2-1/2" (64 mm) Square Stainless Steel Cap Rail Corners

Minimum order: 1 each. All Connector Sleeves can be combined for quantity pricing.

IMPORTANT INSTALLATION NOTE:
Always use Connector Sleeves made of the same metal as the Cap Rail, Cap Rail Corner, or Hand Rail metal to be joined.

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cap-railing | Search | **236B**

or enter the Catalog Number for complete product information

TOLL Phone: (800) 421-6144
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From Anywhere in the U.S. or Canada

CRL US ALUMINUM

CRL Crisp Corner Square Cap Rails for 1/2", 9/16", and 5/8" (12, 13.52, and 16 mm) Glass

- Crisp Corner Design
- 120" (3.05 m) Stock Lengths Available in Three Sizes and Two Architectural Finishes
- Profiles Ranging From 1-1/2" (38 mm) to 2-1/2" (64 mm) in Size
- 304 Grade Stainless is Standard; 316 Grade Available on Special Order

USE MONOLITHIC TEMPERED GLASS

or

USE LAMINATED TEMPERED GLASS

CRL Crisp Corner Square Cap Rails are formed using precision tooling to maintain uniform profiles, allowing for smooth hairline transitions at splices, corners, and end caps. The internal channel is spot welded every 6" (152 mm) on both sides to increase strength and stability. Use of our Cat. No. 7649 Primer and Cat. No. 32629 Metal Contact Cement (see page 239B) is required to achieve a secure and permanent bond at all connections.

CRL US ALUMINUM MANUFACTURED IN THE USA

1-1/2" (38 mm)

2" (51 mm)

2-1/2" (64 mm)

*This dimension is used to calculate the glass size. Add the clearance you desire or add an additional 1/8" (3 mm) if using Cap Rail Rubber Insert (see page 239B).

1/2"* (13 mm)
5/8" (16 mm)

1/2"* (13 mm)
3/4" (19 mm)

1"* (25 mm)
3/4" (19 mm)

1-1/2" (38 MM) CRISP CORNER SQUARE CAP RAIL IN 120" (3.05 M) LENGTHS

CAT. NO.	GRADE	FINISH	THICKNESS	USE SLEEVE NO.
GRSC15BS	304	Brushed Stainless	.078" (2 mm)	GRS15CSS
GRSC15PS	304	Polished Stainless	.078" (2 mm)	GRS15CSS

Minimum order: 1 each. Sizes and finishes can be combined for quantity pricing. Must ship common carrier.
NOTE: 1-1/2" (38 mm) Square Crisp Corner Cap Rail works only with 1/2", 9/16", and 5/8" (12, 13.52, and 16 mm) glass, secured with 95CBL Silicone and Shims.

2" (51 MM) CRISP CORNER SQUARE CAP RAIL IN 120" (3.05 M) LENGTHS

CAT. NO.	GRADE	FINISH	THICKNESS	USE SLEEVE NO.
GRSC20BS	304	Brushed Stainless	.078" (2 mm)	GRS20CSS
GRSC20PS	304	Polished Stainless	.078" (2 mm)	GRS20CSS

Minimum order: 1 each. Sizes and finishes can be combined for quantity pricing. Must ship common carrier.

2-1/2" (64 MM) CRISP CORNER SQUARE CAP RAIL IN 120" (3.05 M) LENGTHS

CAT. NO.	GRADE	FINISH	THICKNESS	USE SLEEVE NO.
GRSC25BS	304	Brushed Stainless	.078" (2 mm)	GRS25CSS
GRSC25PS	304	Polished Stainless	.078" (2 mm)	GRS25CSS

Minimum order: 1 each. Sizes and finishes can be combined for quantity pricing. Must ship common carrier.

## CRL Crisp Corner Square 90 Degree Horizontal Corners for 1/2", 9/16", and 5/8" (12, 13.52, and 16 mm) Glass

FOR 1-1/2" (38 MM) CRISP SQUARE CAP RAILING

CAT. NO.	GRADE	FINISH	DIMENSIONS
GRSC15HBS	304	Brushed Stainless	L= 3-3/4" (95 mm)
GRSC15HPS	304	Polished Stainless	C= 3" (76 mm)

Minimum order: 1 each. All Railing Corners can be combined for quantity pricing.

FOR 2" (51 MM) CRISP SQUARE CAP RAILING

CAT. NO.	GRADE	FINISH	DIMENSIONS
GRSC20HBS	304	Brushed Stainless	L= 4" (102 mm)
GRSC20HPS	304	Polished Stainless	C= 3" (76 mm)

Minimum order: 1 each. All Railing Corners can be combined for quantity pricing.

FOR 2-1/2" (64 MM) CRISP SQUARE CAP RAILING

CAT. NO.	GRADE	FINISH	DIMENSIONS
GRSC25HBS	304	Brushed Stainless	L= 4-1/2" (114 mm)
GRSC25HPS	304	Polished Stainless	C= 3-1/4" (83 mm)

Minimum order: 1 each. All Railing Corners can be combined for quantity pricing.

CRL US ALUMINUM MANUFACTURED IN THE USA

IMPORTANT INSTALLATION NOTE: Always use Connector Sleeves made of the same metal as the Cap Rail, Cap Rail Corner, or Hand Rail metal to be joined (see page 236B).

See page 239B for Vinyl and Rubber Inserts

L
C
Square
90 Degrees

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237B

TOLL Phone: (800) 421-6144
FREE Fax: (800) 262-3299
From Anywhere in the U.S. or Canada

CRL US ALUMINUM

CRL Crisp Corner Square 135 Degree Horizontal Corners for 1/2", 9/16", and 5/8" (12, 13.52, and 16 mm) Glass

Use of our Cat. No. 7649 Primer and Cat. No. 32629 Metal Contact Cement (see page 239B) is required to achieve a secure and permanent bond. Two Connector Sleeves are required for use with each corner (see page 236B).

USE MONOLITHIC TEMPERED GLASS

or

USE LAMINATED TEMPERED GLASS

See page 239B for Vinyl and Rubber Inserts

- Crisp Corner Profile
- Ready to Install

Always use proper Connector Sleeves (see page 236B).

FOR 1-1/2" (38 MM) CRISP SQUARE CAP RAILING

CAT. NO.	GRADE	FINISH	DIMENSIONS
GRSC15H3BS	304	Brushed Stainless	L= 3-3/4" (95 mm)
GRSC15H3PS	304	Polished Stainless	C= 3-7/16" (87 mm)

FOR 2" (51 MM) CRISP SQUARE CAP RAILING

CAT. NO.	GRADE	FINISH	DIMENSIONS
GRSC20H3BS	304	Brushed Stainless	L= 2-3/4" (70 mm)
GRSC20H3PS	304	Polished Stainless	C= 2-3/8" (60 mm)

Minimum order: 1 each. All sizes and finishes can be combined for quantity pricing.

FOR 2-1/2" (64 MM) CRISP SQUARE CAP RAILING

CAT. NO.	GRADE	FINISH	DIMENSIONS
GRSC25H3BS	304	Brushed Stainless	L= 3" (76 mm)
GRSC25H3PS	304	Polished Stainless	C= 2-1/2" (64 mm)

Minimum order: 1 each. All Railing Corners can be combined for quantity pricing.

L
C
Square
135 Degrees

CRL Crisp Corner Square End Caps

- Formed and Shaped to Fit, Ready to Install
- Crisp Corner Design
- 316 Grade Stainless Steel

CRL End Caps easily slip into the Crisp Corner Square Cap Railing. Use of our Cat. No. 7649 Primer and Cat. No. 32629 Metal Contact Cement (see page 239B) is required to achieve a secure and permanent bond. Standard stainless alloy is 316.

FOR 1-1/2" (38 MM) CRISP CORNER SQUARE CAP RAILING

CAT. NO.	GRADE	FINISH	FITS CAP RAIL NO.
GRS15ECBS	316	Brushed Stainless	GRSC15BS
GRS15ECPS	316	Polished Stainless	GRSC15PS

Minimum order: 1 each. All End Caps can be combined for quantity pricing.

FOR 2" (51 MM) CRISP CORNER SQUARE CAP RAILING

CAT. NO.	GRADE	FINISH	FITS CAP RAIL NO.
GRSC20ECBS	316	Brushed Stainless	GRSC20BS
GRSC20ECPS	316	Polished Stainless	GRSC20PS

Minimum order: 1 each. All End Caps can be combined for quantity pricing.

FOR 2-1/2" (64 MM) CRISP CORNER SQUARE CAP RAILING

CAT. NO.	GRADE	FINISH	FITS CAP RAIL NO.
GRSC25ECBS	316	Brushed Stainless	GRSC25BS
GRSC25ECPS	316	Polished Stainless	GRSC25PS

Minimum order: 1 each. All End Caps can be combined for quantity pricing.

CRL Crisp Corner Square Stabilizing End Caps

- Formed and Shaped to Fit
- 316 Grade Stainless Steel

CRL Stabilizing End Caps easily slip into our Crisp Corner Square Cap Railing. Use of our Cat. No. 7649 Primer and Cat. No. 32629 Metal Contact Cement (see page 239B) is required to achieve a secure and permanent bond. Standard stainless is 316 grade. Includes: 1/4" x 2" (6 x 51 mm) Lag Screw with 1/4" (6 mm) Nylon Spacer.

1/8" (3 mm) Clearance at Wall
1/2" (13 mm) Wall to Edge of Glass
1/8" (3 mm)

CAT. NO. SECB1
Lag Screw with Spacer (Included)

FOR 1-1/2" (38 MM) CRISP CORNER SQUARE CAP RAILING

CAT. NO.	GRADE	FINISH	FITS CAP RAIL NO.
GRS15SECBS	316	Brushed Stainless	GRSC15BS
GRS15SECPS	316	Polished Stainless	GRSC15PS

Minimum order: 1 each. All End Caps can be combined for quantity pricing.

FOR 2" (51 MM) CRISP CORNER SQUARE CAP RAILING

CAT. NO.	GRADE	FINISH	FITS CAP RAIL NO.
GRSC20SECBS	316	Brushed Stainless	GRSC20BS
GRSC20SECPS	316	Polished Stainless	GRSC20PS

Minimum order: 1 each. All End Caps can be combined for quantity pricing.

FOR 2-1/2" (64 MM) CRISP CORNER SQUARE CAP RAILING

CAT. NO.	GRADE	FINISH	FITS CAP RAIL NO.
GRSC25SECBS	316	Brushed Stainless	GRSC25BS
GRSC25SECPS	316	Polished Stainless	GRSC25PS

Minimum order: 1 each. All End Caps can be combined for quantity pricing.

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238B

TOLL Phone: (800) 421-6144
FREE Fax: (800) 262-3299
From Anywhere in the U.S. or Canada

CRL Cap Rail Vinyl and Rubber Inserts

- Provide Protective Barrier Between Metal Cap and 1/2", 9/16", or 5/8" (12, 13.52, or 16 mm) Glass
- Works in Square, Low Profile, and Crisp Corner Low Profile 11 Gauge Cap Rails
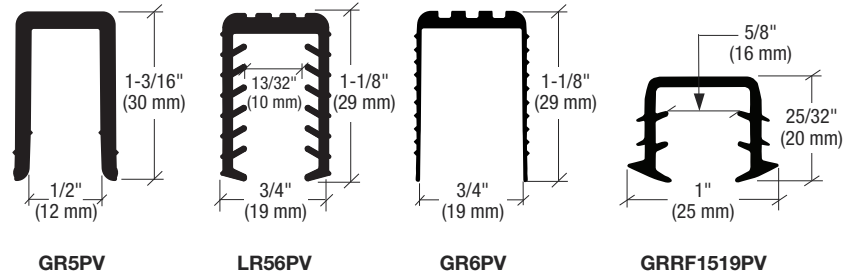
CRL Cap Rail Vinyl and Rubber Inserts are used with our Square, Low Profile, and Crisp Corner Low Profile 11 Gauge Cap Rails to securely attach the glass to metal. Flat black in color, they are designed to center the glass and protect the edge of the glass when inserted into the metal cap rail.

GR5PV — 1-3/16" (30 mm), 1/2" (12 mm)
LR56PV — 13/32" (10 mm), 1-1/8" (29 mm), 3/4" (19 mm)
GR6PV — 1-1/8" (29 mm), 3/4" (19 mm)
GRRF1519PV — 5/8" (16 mm), 25/32" (20 mm), 1" (25 mm)

CAT. NO.	MATERIAL	USE WITH	SOLD BY
GR5PV	Vinyl	1/2" (12 mm) Glass	120" (3.05 m) Lengths
LR56PV	Rubber	9/16" (13.52 mm) Glass	100' (30.5 m) Rolls*
GR6PV	Rubber	5/8" (16 mm) Glass	100' (30.5 m) Rolls*
GRRF1519PV	Rubber	1/2" or 9/16" (12 or 13.52 mm) Glass ▲	20' (6.1 m) Rolls*

Minimum order: 1 stock length. 120" (3.05 m) lengths must ship common carrier. A Packing Charge will be added to orders of fewer than five lengths. Can be combined with other Glass Protection Vinyls for quantity pricing.
*Minimum order: 1 roll. ▲ For GRS15 and GR15 1-1/2" (38 mm) cap rails only.

CRL Loctite® Metal Contact Cement

- The Strength of an Epoxy and the Speed of an Instant Adhesive
- Permanently Bonds Cap Rails, Hand Rails, and Their Accessories With Superior Holding Power Up to 4,900 psi
- Offers Handling Strength as Quickly as 60 Seconds, Full Cure in 24 Hours

SDS ONLINE

SPEC. DATA ONLINE
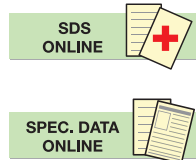
To permanently bond Metal Rails and their accessories we suggest this strong adhesive system from Loctite®, with two different Primers to best suit your assembly time frame.

Use Cat. No. 7649 to activate in 60 seconds, 60% of full strength in two minutes, and a full cure in 24 hours. When a longer curing time is needed use Cat. No. 7075 Primer to activate in five minutes, 60% of full strength in ten minutes, and a full cure in 24 hours.

NO AIR FREIGHT
Primers Only

CAT. NO. 32629
Cement

CAT. NO. 7649
60 Second Primer

CAT. NO. 7075
5 Minute Primer

CAT. NO.	DESCRIPTION	ACTIVATION	CONTENTS
32629	Metal Contact Cement	---	1.69 Fl. Oz. (50 ml)
7649	Primer for Metal Contact Cement	60 Seconds	1.75 Fl. Oz. (52 ml)
7075	Primer for Metal Contact Cement	5 Minutes	4.5 Oz. (127 g)

Minimum order: 1 each.

CRL 3M® Scotch-Brite® Hand Pads

- Cleans, Finishes, Blends, and Deburrs Metal
- Great for Touch Up and Refinishing Brushed Stainless Steel Railing Systems
- Two Grades Available

CRL 3M® Scotch-Brite® Commercial Hand Pads are for general purpose cleaning and scouring. High-quality synthetic fiber will not rust or corrode. Hand Pads measure 6" x 9" (152 x 229 mm) and 1/4" (6 mm) thick.

The Fine Hand Pad is for surface conditioning. Perfect for cleaning, finishing, blending, and deburring for railing applications. The Coarse Hand Pad is for heavy-duty work. A high mineral content makes these pads cut fast to remove contaminants and oxides in your most demanding jobs. Comes one Hand Pad per pack. Minimum order is one each.

Loctite is a registered trademark of Henkei Corporation.
3M and Scotch-Brite are registered trademarks of 3M Company.

CAT. NO. SB7447F
Scotch-Brite® Fine Hand Pad

CAT. NO. SB7440C
Scotch-Brite® Coarse Hand Pad

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TOLL Phone: (800) 421-6144
FREE Fax: (800) 262-3299
From Anywhere in the U.S. or Canada

CRL US ALUMINUM

CRL Extruded Aluminum Cap Rails for 1/2", 9/16", 5/8" or 3/4" (12, 13.52, 16 or 19 mm) Glass

USE MONOLITHIC TEMPERED GLASS

or

USE LAMINATED TEMPERED GLASS

- Connects to a Variety of Fabricated Corners and End Caps
- Custom Shapes and Sizes Available

CRL Extruded Aluminum Cap Rails are extruded from 6063-T6 grade, which is suitable for custom finishes such as anodizing, powder coating, etc. Use of our Cat. No. 7649 Primer and Cat. No. 32629 Metal Contact Cement (see page 239B) is required to achieve a secure and permanent bond at all connections. Use Connector Sleeves shown on pages 242B and 244B to connect Cap Rails.

NOTE: Cat. No. GR5PV Cap Rail Vinyl (see page 241B) and 95CBL Silicone (see page 125B) should be used to secure 1/2" (12 mm) tempered glass; Cat. No. LR56PV Cap Rail Rubber Insert (see page 241B) and 95CBL should be used to secure 9/16" (13.52 mm) laminated glass; Cat. No. GR6PV Cap Rail Rubber Insert (see page 241B) and 95CBL Silicone should be used to secure 5/8" (16 mm) tempered glass; Cat. No. GR7PV Cap Rail Vinyl (see page 241B) and 95CBL Silicone should be used to secure 3/4" (19 mm) tempered glass.

1.9" (48 mm)

2-1/2" (64 mm)

3-1/2" (89 mm)

3" (76 mm)

4" x 2-1/2" (102 x 64 mm) Oval

9/16"* (14 mm)
3/4" (19 mm)

1-3/16"* (30 mm)
3/4" (19 mm)

1-11/16"* (43 mm)
3/4" (19 mm)

2-3/16"* (56 mm)
3/4" (19 mm)

1-1/4"* (31 mm)
3/4" (19 mm)

1-11/16"* (43 mm)
1" (25 mm)

For 1/2", 9/16" or 5/8" (12, 13.52 or 16 mm) Glass

1.9" (48 MM) DIAMETER EXTRUDED ALUMINUM CAP RAIL IN 240" (6.10 M) LENGTHS

CAT. NO.	GRADE	FINISH	THICKNESS	USE SLEEVE NO.
GR19M	6063-T6	Mill Aluminum	.125" (3 mm)	GR19CSM
GR19SA	6063-T6	Satin Anodized	.125" (3 mm)	GR19CSM
GR19DU	6063-T6	Dark Bronze Anodized	.125" (3 mm)	GR19CSM

Minimum order: 1 each. Sizes and finishes can be combined for quantity pricing.

2-1/2" (64 MM) DIAMETER EXTRUDED ALUMINUM CAP RAIL IN 240" (6.10 M) LENGTHS

CAT. NO.	GRADE	FINISH	THICKNESS	USE SLEEVE NO.
GR25M	6063-T6	Mill Aluminum	.125" (3 mm)	GR25CSM
GR25SA	6063-T6	Satin Anodized	.125" (3 mm)	GR25CSM
GR25DU	6063-T6	Dark Bronze Anodized	.125" (3 mm)	GR25CSM

Minimum order: 1 each. Sizes and finishes can be combined for quantity pricing. Must ship common carrier.

3" (76 MM) DIAMETER EXTRUDED ALUMINUM CAP RAIL IN 240" (6.10 M) LENGTHS

CAT. NO.	GRADE	FINISH	THICKNESS	USE SLEEVE NO.
GR30M	6063-T6	Mill Aluminum	.125" (3 mm)	GR30CSM
GR30SA	6063-T6	Satin Anodized	.125" (3 mm)	GR30CSM
GR30DU	6063-T6	Dark Bronze Anodized	.125" (3 mm)	GR30CSM

Minimum order: 1 each. Sizes and finishes can be combined for quantity pricing. Must ship common carrier.

3-1/2" (89 MM) DIAMETER EXTRUDED ALUMINUM CAP RAIL IN 240" (6.10 M) LENGTHS

CAT. NO.	GRADE	FINISH	THICKNESS	USE SLEEVE NO.
GR35M	6063-T6	Mill Aluminum	.125" (3 mm)	GR35CSM
GR35SA	6063-T6	Satin Anodized	.125" (3 mm)	GR35CSM
GR35DU	6063-T6	Dark Bronze Anodized	.125" (3 mm)	GR35CSM

Minimum order: 1 each. Sizes and finishes can be combined for quantity pricing. Must ship common carrier.

4" X 2-1/2" (102 X 64 MM) OVAL EXTRUDED ALUMINUM CAP RAIL IN 240" (6.10 M) LENGTHS

CAT. NO.	GRADE	FINISH	THICKNESS	USE SLEEVE NO.
GR0V4M	6063-T6	Mill Aluminum	.125" (3 mm)	GR0V4CSM
GR0V4SA	6063-T6	Satin Anodized	.125" (3 mm)	GR0V4CSM
GR0V4DU	6063-T6	Dark Bronze Anodized	.125" (3 mm)	GR0V4CSM

Minimum order: 1 each. Sizes and finishes can be combined for quantity pricing. Must ship common carrier.

For 3/4" (19 mm) Glass

3" (76 MM) DIAMETER EXTRUDED ALUMINUM CAP RAIL IN 240" (6.10 M) LENGTHS

CAT. NO.	GRADE	FINISH	THICKNESS	USE SLEEVE NO.
GR307M	6063-T6	Mill Aluminum	.125" (3 mm)	GR30CSM
GR307SA	6063-T6	Satin Anodized	.125" (3 mm)	GR30CSM
GR307DU	6063-T6	Dark Bronze Anodized	.125" (3 mm)	GR30CSM

Minimum order: 1 each. Sizes and finishes can be combined for quantity pricing. Must ship common carrier.
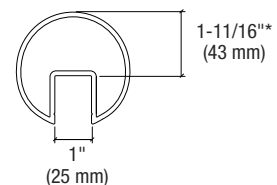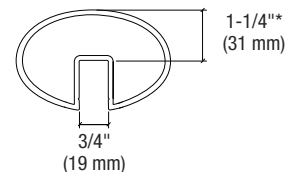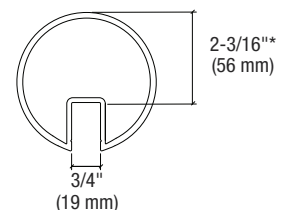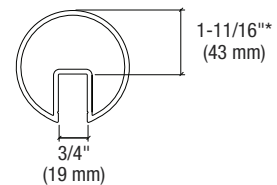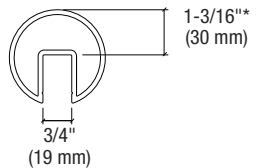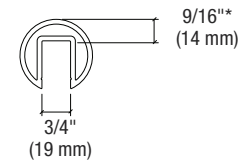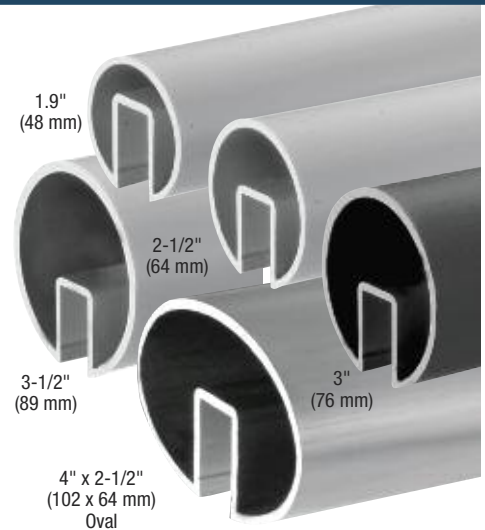
* This dimension is used to calculate the glass size. Add the clearance for Protective Rubber Insert (see page 241B) or desired clearance required.

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240B

TOLL Phone: (800) 421-6144
FREE Fax: (800) 262-3299
From Anywhere in the U.S. or Canada

CRL US ALUMINUM

CRL End Caps for Extruded Aluminum Cap Railing

CRL End Caps easily slip into the Aluminum Cap Railing. Use of our Cat. No. 7649 Primer and Cat. No. 32629 Metal Contact Cement (see page 239B) is required to achieve a secure and permanent bond.

- Available in Three Finishes
- Formed and Shaped to Fit
- Ready to Install

FOR 1.9" (48 MM) DIAMETER ALUMINUM CAP RAILING

CAT. NO.	GRADE	FINISH	FITS CAP RAIL NO.
GR19ECM	6063-T6	Mill Aluminum	GR19M
GR19ECSA	6063-T6	Satin Anodized	GR19SA
GR19ECDU	6063-T6	Dark Bronze Anodized	GR19DU

Minimum order: 1 each. All End Caps can be combined for quantity pricing.

FOR 2-1/2" (64 MM) DIAMETER ALUMINUM CAP RAILING

CAT. NO.	GRADE	FINISH	FITS CAP RAIL NO.
GR25ECM	6063-T6	Mill Aluminum	GR25M
GR25ECSA	6063-T6	Satin Anodized	GR25SA
GR25ECDU	6063-T6	Dark Bronze Anodized	GR25DU

Minimum order: 1 each. All End Caps can be combined for quantity pricing.

FOR 3" (76 MM) DIAMETER ALUMINUM CAP RAILING

CAT. NO.	GRADE	FINISH	FITS CAP RAIL NO.
GR30ECM	6063-T6	Mill Aluminum	GR30M
GR30ECSA	6063-T6	Satin Anodized	GR30SA
GR30ECDU	6063-T6	Dark Bronze Anodized	GR30DU

Minimum order: 1 each. All End Caps can be combined for quantity pricing.

FOR 3-1/2" (89 MM) DIAMETER ALUMINUM CAP RAILING

CAT. NO.	GRADE	FINISH	FITS CAP RAIL NO.
GR35ECM	6063-T6	Mill Aluminum	GR35M
GR35ECSA	6063-T6	Satin Anodized	GR35SA
GR35ECDU	6063-T6	Dark Bronze Anodized	GR35DU

Minimum order: 1 each. All End Caps can be combined for quantity pricing.

FOR 4" X 2-1/2" (102 X 64 MM) OVAL ALUMINUM CAP RAILING

CAT. NO.	GRADE	FINISH	FITS CAP RAIL NO.
GR0V4ECM	6063-T6	Mill Aluminum	GR0V4M
GR0V4ECSA	6063-T6	Satin Anodized	GR0V4SA
GR0V4ECDU	6063-T6	Dark Bronze Anodized	GR0V4DU

Minimum order: 1 each. All End Caps can be combined for quantity pricing.

CRL Stabilizing End Caps for Extruded Aluminum Cap Railing

- Available in Three Finishes
- Formed and Shaped to Fit
- Ready to Install

CRL Stabilizing End Caps easily slip into our Aluminum Cap Railing. Use of our Cat. No. 7649 Primer and Cat. No. 32629 Metal Contact Cement (see page 239B) is required to achieve a secure and permanent bond. Includes: 1/4" (6 mm) x 2" (51 mm) Lag Screw with 1/4" (6 mm) Nylon Spacer. **NOTE:** Each Stabilizing End Cap is supplied with a set of installation instructions.

1/8" (3 mm) Clearance at Wall

1/2" (13 mm) to Edge of Glass

Cat. No. SECB1 Lag Screw with Spacer (included)

1/8" (3 mm)

FOR 1.9" (48 MM) DIAMETER ALUMINUM CAP RAILING

CAT. NO.	GRADE	FINISH	FITS CAP RAIL NO.
GR19SECM	6063-T6	Mill Aluminum	GR19M
GR19SECSA	6063-T6	Satin Anodized	GR19SA
GR19SECDU	6063-T6	Dark Bronze Anodized	GR19DU

Minimum order: 1 each. All End Caps can be combined for quantity pricing.

FOR 2-1/2" (64 MM) DIAMETER ALUMINUM CAP RAILING

CAT. NO.	GRADE	FINISH	FITS CAP RAIL NO.
GR25SECM	6063-T6	Mill Aluminum	GR25M
GR25SECSA	6063-T6	Satin Anodized	GR25SA
GR25SECDU	6063-T6	Dark Bronze Anodized	GR25DU

Minimum order: 1 each. All End Caps can be combined for quantity pricing.

FOR 3" (76 MM) DIAMETER ALUMINUM CAP RAILING

CAT. NO.	GRADE	FINISH	FITS CAP RAIL NO.
GR30SECM	6063-T6	Mill Aluminum	GR30M
GR30SECSA	6063-T6	Satin Anodized	GR30SA
GR30SECDU	6063-T6	Dark Bronze Anodized	GR30DU

Minimum order: 1 each. All End Caps can be combined for quantity pricing.

FOR 3-1/2" (89 MM) DIAMETER ALUMINUM CAP RAILING

CAT. NO.	GRADE	FINISH	FITS CAP RAIL NO.
GR35SECM	6063-T6	Mill Aluminum	GR35M
GR35SECSA	6063-T6	Satin Anodized	GR35SA
GR35SECDU	6063-T6	Dark Bronze Anodized	GR35DU

Minimum order: 1 each. All End Caps can be combined for quantity pricing.

FOR 4" X 2-1/2" (102 X 64 MM) OVAL ALUMINUM CAP RAILING

CAT. NO.	GRADE	FINISH	FITS CAP RAIL NO.
GR0V4SECM	6063-T6	Mill Aluminum	GR0V4M
GR0V4SECSA	6063-T6	Satin Anodized	GR0V4SA
GR0V4SECDU	6063-T6	Dark Bronze Anodized	GR0V4DU

Minimum order: 1 each. All End Caps can be combined for quantity pricing.

CRL Cap Rail Vinyl and Rubber Inserts

- Sizes for 1/2", 9/16", 5/8" and 3/4" (12, 13.52, 16, and 19 mm) Glass

CAT. NO.	USE WITH	SOLD BY
GR5PV	1/2" (12 mm) Glass	120" (3.05 m) Length
LR56PV	9/16" (13.52 mm) Glass	100' (30.5 m) Roll*
GR6PV	5/8" (16 mm) Glass	100' (30.5 m) Roll*
GR7PV	3/4" (19 mm) Glass	120" (3.05 m) Length

Minimum order: 1 stock length. *Minimum order: 1 roll (100 feet). Sizes can be combined for quantity pricing. A Packing Charge will be added to orders of fewer than five combined lengths. Stock lengths longer than 108" (2.14 m) must ship common carrier, unless you specify we cut them for U.P.S. A Cutting Charge will apply.

1-3/16" (30 mm)

1/2" (13 mm)

GR5PV

13/32" (10 mm)

1-1/8" (29 mm)

3/4" (19 mm)

LR56PV

1-1/8" (29 mm)

3/4" (19 mm)

GR6PV

1-3/16" (30 mm)

3/4" (19 mm)

GR7PV
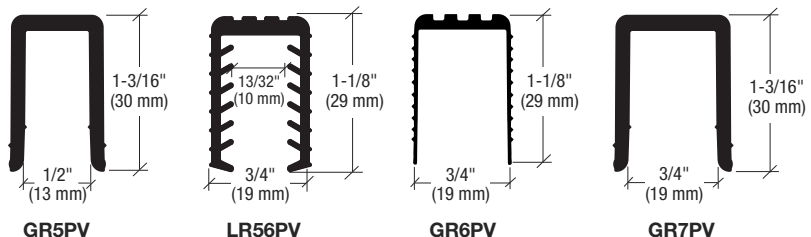
CRL Cap Rail Vinyl and Rubber Inserts should be used to provide a protective barrier between metal and glass. Use 95CBL Silicone (see page 125B) to secure the Vinyl or Rubber inside the pocket of the Cap Rail and also to the glass.

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cap-railing   Search

or enter the Catalog Number for complete product information

241B

TOLL Phone: (800) 421-6144
FREE Fax: (800) 262-3299
From Anywhere in the U.S. or Canada

CRL US ALUMINUM

CRL Extruded Aluminum Cap Railings 90 Degree Horizontal Corners for 1/2", 9/16", or 5/8" (12, 13.52, or 16 mm) Glass

- Welded and Ready to Paint
- 6063-T6 Grade Mill Aluminum
- Requires Two Connector Sleeves (Not Included)
- 135 Degree and Vertical Corners Are Also Available - Go to **crlaurence.com**

USE MONOLITHIC TEMPERED GLASS *or* USE LAMINATED TEMPERED GLASS

Interior slip-fit Horizontal Corners for 1/2", 9/16", or 5/8" (12, 13.52, or 16 mm) thick glass allow for hairline joint assemblies with straight lengths of CRL Mill Aluminum Cap Rail. Use of our Cat. No. 7649 Primer and Cat. No. 32629 Metal Contact Cement (see page 239B) is required to achieve a secure and permanent bond. Two Connector Sleeves are required for use with each corner (see below).

Each Horizontal Corner is fabricated and individually packed. **NOTE**: Our mill aluminum corners are welded for painted finishes only. For all anodized finishes please see page 243B for Internal Corner Splices that create an architecturally pleasing mitered joint. Please contact CRL's Railing Technical Sales for more information or a quote.
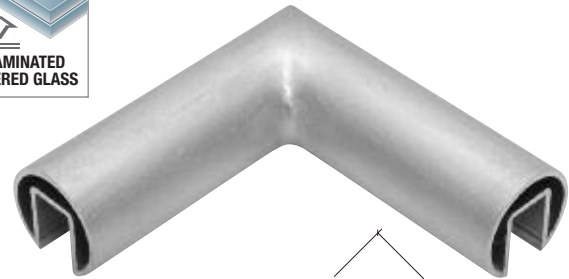
Always use appropriate Connector Sleeves (see below)
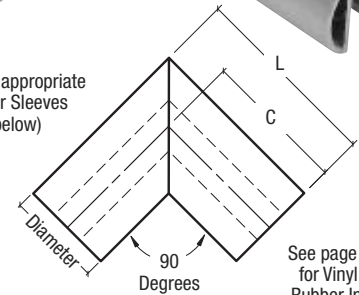
See page 241B for Vinyl and Rubber Inserts

FOR 1.9" (48 MM) DIAMETER ALUMINUM CAP RAILING

CAT. NO.	GRADE	FINISH	DIMENSIONS
GR19HM	6063-T6	Mill Aluminum	L=6" (152 mm) C=5-1/16" (129 mm)

Minimum order: 1 each. All Railing Corners can be combined for quantity pricing.

FOR 2-1/2" (64 MM) DIAMETER ALUMINUM CAP RAILING

CAT. NO.	GRADE	FINISH	DIMENSIONS
GR25HM	6063-T6	Mill Aluminum	L=6" (152 mm) C=4-3/4" (121 mm)

Minimum order: 1 each. All Railing Corners can be combined for quantity pricing.

FOR 3" (76 MM) DIAMETER ALUMINUM CAP RAILING

CAT. NO.	GRADE	FINISH	DIMENSIONS
GR30HM	6063-T6	Mill Aluminum	L=6" (152 mm) C=4-1/2" (114 mm)

Minimum order: 1 each. All Railing Corners can be combined for quantity pricing.

FOR 3-1/2" (89 MM) DIAMETER ALUMINUM CAP RAILING

CAT. NO.	GRADE	FINISH	DIMENSIONS
GR35HM	6063-T6	Mill Aluminum	L=6" (152 mm) C=4-1/4" (108 mm)

Minimum order: 1 each. All Railing Corners can be combined for quantity pricing.

FOR 4" X 2-1/2" (102 X 64 MM) OVAL ALUMINUM CAP RAILING

CAT. NO.	GRADE	FINISH	DIMENSIONS
GR0V4HM	6063-T6	Mill Aluminum	L=6" (152 mm) C=4" (102 mm)

Minimum order: 1 each. All Railing Corners can be combined for quantity pricing.

CRL Connector Sleeves for Extruded Aluminum Cap Railing

- Formed, Shaped to Fit, and Ready to Install
- Provides Proper Alignment at Splices

CRL Connector Sleeves are used to connect and provide proper alignment between railing splices and railing-to-corner splices. Connector Sleeves are 5" (127 mm) long, and must be compressed to fit inside the Aluminum Cap Railing. Use of our Cat. No. 7649 Primer and Cat. No. 32629 Metal Contact Cement (see page 239B) is required to achieve a secure and permanent bond.

IMPORTANT INSTALLATION NOTE:
Always use Connector Sleeves made of the same metal as the Cap Rail, Cap Rail Corner, or Hand Rail metal to be joined.

FOR 1.9" (48 MM) DIAMETER ROUND ALUMINUM CAP RAILING

CAT. NO.	MATERIAL	FOR USE WITH
GR19CSM	Mill Aluminum	GR19M/GR19SA/GR19DU Cap Rails and all 1.9" (48 mm) Aluminum Cap Rail Corners

FOR 2-1/2" (64 MM) DIAMETER ROUND ALUMINUM CAP RAILING

CAT. NO.	MATERIAL	FOR USE WITH
GR25CSM	Mill Aluminum	GR25M/GR25SA/GR25DU Cap Rails and all 2-1/2" (64 mm) Aluminum Cap Rail Corners

FOR 3" (76 MM) DIAMETER ROUND ALUMINUM CAP RAILING

CAT. NO.	MATERIAL	FOR USE WITH
GR30CSM	Mill Aluminum	GR30M/GR30SA/GR30DU Cap Rails and all 3" (76 mm) Aluminum Cap Rail Corners

FOR 3-1/2" (89 MM) DIAMETER ROUND ALUMINUM CAP RAILING

CAT. NO.	MATERIAL	FOR USE WITH
GR35CSM	Mill Aluminum	GR35M/GR35SA/GR35DU Cap Rails and all 3-1/2" (89 mm) Aluminum Cap Rail Corners

FOR 4" X 2-1/2" (102 X 64 MM) OVAL ALUMINUM CAP RAILING

CAT. NO.	MATERIAL	FOR USE WITH
GR0V4CSM	Mill Aluminum	GR0V4M/GR0V4SA/GR0V4DU Cap Rails and all 4" x 2-1/2" (102 x 64 mm) Aluminum Corners

Minimum order: 1 each. All Connector Sleeves can be combined for quantity pricing.

Mill Aluminum Round

Mill Aluminum Oval

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242B

TOLL Phone: (800) 421-6144
FREE Fax: (800) 262-3299
From Anywhere in the U.S. or Canada

CRL 90 Degree Horizontal Internal Splice Sleeves for Extruded Aluminum Cap Railing

- Internal Sleeves for Satin Anodized or Dark Bronze Anodized Applications
- Provides Proper Alignment for Extruded Aluminum Cap Railing at Splice Locations
- Custom Angles Are Also Available
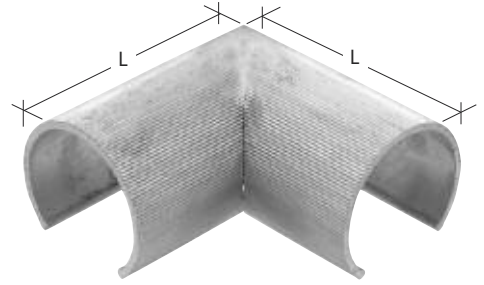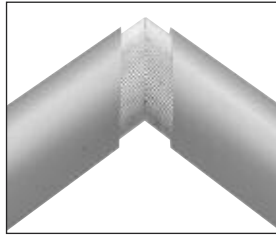
CAT. NO.	SPLICE SLEEVES FOR	"L" LENGTH	FOR USE WITH
1S1990M	1.9" (48 mm) Cap Rail	4" (102 mm)	GR19SA, GR19DU, GR19M
1S2590M	2-1/2" (64 mm) Cap Rail	4" (102 mm)	GR25SA, GR25DU, GR25M
1S3090M	3" (76 mm) Cap Rail	4" (102 mm)	GR30SA, GR30DU, GR30M
1S3590M	3-1/2" (89 mm) Cap Rail	5" (127 mm)	GR35SA, GR35DU, GR35M
1S0V490M	4" x 2-1/2" (102 x 64 mm) Oval Cap Rail	5" (127 mm)	GR0V4SA, GR0V4DU, GR0V4M

Minimum order: 1 each. All Splice Sleeves can be combined for quantity pricing.

CRL 90 Degree Horizontal Internal Splice Sleeves are used to connect and provide proper alignment between our Extruded Aluminum Cap Rails. The Splice Sleeves must be compressed to fit inside the Top Cap. Use of our Cat. No. 7649 Primer and Cat. No. 32629 Metal Contact Cement (see page 239B) is required to achieve a secure and permanent bond at all connections.

CRL 135 Degree Horizontal Internal Splice Sleeves for Extruded Aluminum Cap Railing

- Internal Sleeves for Satin Anodized or Dark Bronze Anodized Applications
- Provides Proper Alignment for Extruded Aluminum Cap Railing at Splice Locations
- Custom Angles Are Also Available
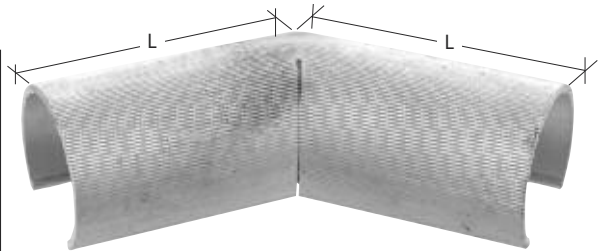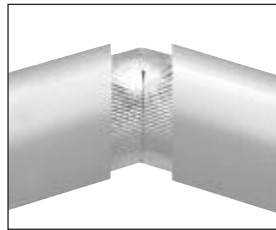
CAT. NO.	SPLICE SLEEVES FOR	"L" LENGTH	FOR USE WITH
1S19135M	1.9" (48 mm) Cap Rail	4" (102 mm)	GR19SA, GR19DU, GR19M
1S25135M	2-1/2" (64 mm) Cap Rail	4" (102 mm)	GR25SA, GR25DU, GR25M
1S30135M	3" (76 mm) Cap Rail	4" (102 mm)	GR30SA, GR30DU, GR30M
1S35135M	3-1/2" (89 mm) Cap Rail	5" (127 mm)	GR35SA, GR35DU, GR35M
1S0V4135M	4" x 2-1/2" (102 x 64 mm) Oval Cap Rail	5" (127 mm)	GR0V4SA, GR0V4DU, GR0V4M

Minimum order: 1 each. All Splice Sleeves can be combined for quantity pricing.

CRL 135 Degree Horizontal Internal Splice Sleeves are used to connect and provide proper alignment between our Extruded Aluminum Cap Rails. The Splice Sleeves must be compressed to fit inside the Top Cap. Use of our Cat. No. 7649 Primer and Cat. No. 32629 Metal Contact Cement (see page 239B) is required to achieve a secure and permanent bond at all connections.

CRL 90 Degree Vertical Internal Splice Sleeves for Extruded Aluminum Cap Railing

- Internal Sleeves for Satin Anodized or Dark Bronze Anodized Applications
- Provides Proper Alignment for Extruded Aluminum Cap Railing at Splice Locations
- Custom Angles Are Also Available
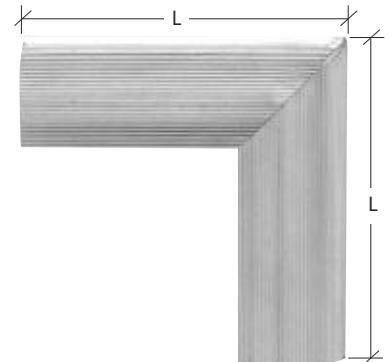
CAT. NO.	SPLICE SLEEVES FOR	"L" LENGTH	FOR USE WITH
1S19V90M	1.9" (48 mm) Cap Rail	4" (102 mm)	GR19SA, GR19DU, GR19M
1S25V90M	2-1/2" (64 mm) Cap Rail	4" (102 mm)	GR25SA, GR25DU, GR25M
1S30V90M	3" (76 mm) Cap Rail	4" (102 mm)	GR30SA, GR30DU, GR30M
1S35V90M	3-1/2" (89 mm) Cap Rail	5" (127 mm)	GR35M, GR35SA, GR35DU
1S0V4V90M	4" x 2-1/2" (102 x 64 mm) Oval Cap Rail	5" (127 mm)	GR0V4SA, GR0V4DU, GR0V4M

Minimum order: 1 each. All Splice Sleeves can be combined for quantity pricing.

CRL 90 Degree Vertical Internal Splice Sleeves are used to connect and provide proper alignment between our Extruded Aluminum Cap Rails. The Splice Sleeves must be compressed to fit inside the Top Cap. Use of our Cat. No. 7649 Primer and Cat. No. 32629 Metal Contact Cement (see page 239B) is required to achieve a secure and permanent bond at all connections.

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From Anywhere in the U.S. or Canada

CRL US ALUMINUM

MORE *CHOICES*
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U.S. ALUMINUM®
MANUFACTURED IN THE USA

USE MONOLITHIC TEMPERED GLASS

or

USE LAMINATED TEMPERED GLASS

CRL Custom Cap Railing Corners and Splice Sleeves

• For 1/2", 9/16", or 5/8" (12, 13.52, or 16 mm) Thick Glass

Because we manufacture our own corners we can custom design and fabricate just about any horizontal or vertical configuration your Cap Railing project requires. Whether you are working with stainless or brass, we can accommodate your needs. Contact CRL Railing Technical Sales for design and ordering assistance, or go to **crlaurence.com/cap-railing**.

CRL Custom Round Top Cap Corners

• Horizontal, Upper, and Lower Incline Welded Corners Made to Your Specifications
• Three Architectural Finishes, Custom Finishes Also Available
• Other Diameters and Profiles Available
• Specify 304 or 316 Grade Stainless
• Brass is C260 Grade
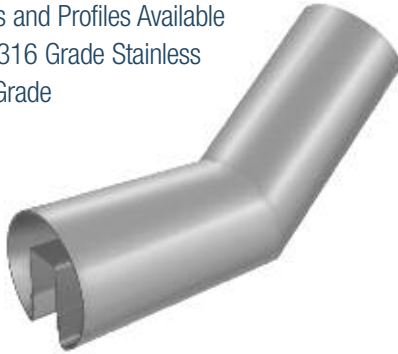
BRUSHED STAINLESS CAT. NO.	POLISHED STAINLESS CAT. NO.	POLISHED BRASS CAT. NO.	CAP RAIL DIAMETER
GR15BSC	GR15PSC	GR15PBC	1-1/2" (38 mm)
GR16BSC	GR16PSC	GR16PBC	1.66" (42 mm)
GR20BSC	GR20PSC	GR20PBC	2" (51 mm)
GR25BSC	GR25PSC	GR25PBC	2-1/2" (64 mm)
GR30BSC	GR30PSC	GR30PBC	3" (76 mm)
GR35BSC	GR35PSC	GR35PBC	3-1/2" (89 mm)
GR40BSC	GR40PSC	GR40PBC	4" (102 mm)

Minimum order: 1 each.
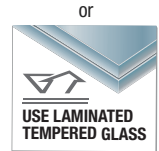
CRL Custom Square Top Cap Corners

• Horizontal, Upper, and Lower Incline Welded Corners Made to Your Specifications
• Two Architectural Finishes, Custom Finishes Also Available
• Standard and Crisp Corner Available
• Specify 304 or 316 Grade Stainless

BRUSHED STAINLESS CAT. NO.	POLISHED STAINLESS CAT. NO.	SQUARE CAP RAIL SIZE
GRS15BSC	GRS15PSC	1-1/2" (38 mm)
GRSC15BSC	GRSC15PSC	1-1/2" (38 mm) Crisp Corner
GRS20BSC	GRS20PSC	2" (51 mm)
GRSC20BSC	GRSC20PSC	2" (51 mm) Crisp Corner
GRS25BSC	GRS25PSC	2-1/2" (64 mm)
GRSC25BSC	GRSC25PSC	2-1/2" (64 mm) Crisp Corner
GRS30BSC	GRS30PSC	3" (76 mm)
GRSC30BSC	GRSC30PSC	3" (76 mm) Crisp Corner

Minimum order: 1 each.

CRL Custom U-Shape Top Cap Corners

• Horizontal, Upper, and Lower Incline Welded Corners Made to Your Specifications
• Two Architectural Finishes, Custom Finishes Also Available
• Standard and Crisp Corner Available
• Specify 304 or 316 Grade Stainless

BRUSHED STAINLESS CAT. NO.	POLISHED STAINLESS CAT. NO.	U-SHAPE CAP RAIL SIZE
GRUC5BSC	GRUC5PSC	7/8" x 1-1/2" (22 x 38 mm)
GRCF5BSC	GRCF5PSC	7/8" x 1-1/2" (22 x 38 mm) Crisp Corner
GRCR5BSC	GRCR5PSC	7/8" x 1-1/2" (22 x 38 mm) Crisp Corner Round Top
GRL10BSC	GRL10PSC	1" x 1-5/16" (25 x 33 mm)
GRLC10BSC	GRLC10PSC	1" x 1-5/16" (25 x 33 mm) Crisp Corner

Minimum order: 1 each.

CRL Custom Fabricated Internal Splice Sleeves

• Custom Angled Internal Splice Sleeves Made to Your Specifications
• Work With CRL Stock Length Aluminum Top Caps
• Constructed of Mill Aluminum
• Other Diameters and Profiles Available
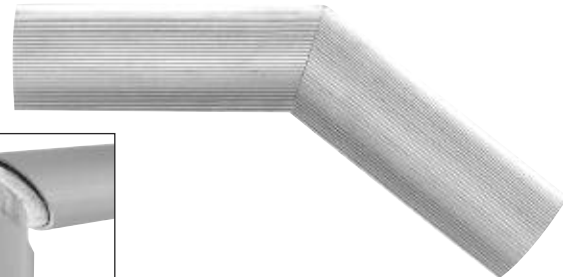
CAT. NO.	FOR USE WITH
1S19MC	1.9" (48 mm) Cap Rail, GR19SA, GR19DU, GR19M
1S25MC	2-1/2" (64 mm) Cap Rail, GR25SA, GR25DU, GR25M
1S30MC	3" (76 mm) Cap Rail, GR30SA, GR30DU, GR30M
1S35MC	3-1/2" (89 mm) Cap Rail, GR35SA, GR35DU, GR35M
1S0V4MC	4" X 2-1/2" (102 X 64 mm) Oval Cap Rail, GR0V4SA, GR0V4DU, GR0V4M

Minimum order: 1 each.

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CRL US ALUMINUM®

Elegant Style....
Quality Craftsmanship

- Cap Rails are Available in Aluminum and Wood for 1/2" (12 mm) Glass, and Aluminum for 3/4" (19 mm) Glass
- Satin Anodized, Dark Bronze Anodized, Plus Mill Aluminum Available From Stock
- Variety of Eight Standard Hardwoods to Choose From
- Sold in 120" (3.05 m) Stock Lengths or Custom Fabricated to Size

CRL Blumcraft® prides itself in delivering the highest quality products to the architectural metal and glass industry. Our ongoing policy is to blend beauty and functionality into each and every railing system we manufacture.

For pricing or ordering assistance contact CRL Railing Technical Sales at (800) 421-6144 in the U.S., (877) 421-6144 from Canada, or (323) 588-1281 International. Ask for Extension 7730. You may also fax your requirements to CRL Railing Technical Sales at (800) 587-7501 in the U.S., or (323) 584-5289 (Canada or International). You can also send us an email at **railings@crlaurence.com**.

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USE MONOLITHIC TEMPERED GLASS

Flat End Caps
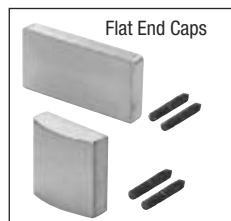
339 Series

324 Series

3243 Series

339, 324, and 3243 Series Cap Rails use ST302 Adapter Strips (see page 251B).

Flat End Cap
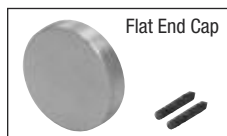
338 Series

337 Series

337 Series Cap Rails use ST302 Adapter Strips.
338 Series Cap Rails use ST307 Adapter Strips (see page 251B).
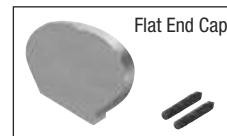
Flat End Cap

376 Series

376 Series Cap Rails use ST302 Adapter Strips (see page 251B).
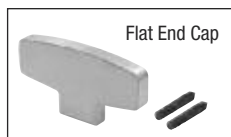
Flat End Cap

398 Series

398 Series Cap Rails use ST302 Adapter Strips (see page 251B).

Flat End Cap

636, 637, and 638 Series

636, 637, and 638 Series Cap Rails use ST300 Adapter Strips (see page 251B).
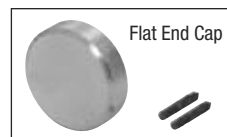
Flat End Cap

346 and 347 Series

346 and 347 Series Cap Rails use ST302 Adapter Strips (see page 251B).

---

397 Series

372 Series

373 Series

Flat End Caps

397, 372, and 373 Series Cap Rails use ST307 Adapter Strips (see page 251B).

Flat End Caps

631 Series

632 Series

633 Series

631, 632, and 633 Series Cap Rails use ST300 Adapter Strips (see page 251B).

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CRL US ALUMINUM

CRL Blumcraft® 324, 3243, and 339 Series Extruded Aluminum Cap Rails

- Extruded Heavy-Duty Solid Aluminum Construction Models for 1/2" and 3/4" (12 and 19 mm) Monolithic Tempered Glass
- Ready to Install
- Two Architectural Finishes, Plus Mill Aluminum Available From Stock
- Sold in 120" (3.05 m) Stock Lengths or Custom Fabricated to Size
- Stainless Steel Adapter Strips Sold Separately (See Page 251B)

339 Series

3243 Series

324 Series

CRL Blumcraft's top quality Extruded Cap Rails are produced from 6063-T5 aluminum and offered in two architectural finishes, plus mill aluminum. Cap Rails are sold in stock lengths or can be custom fabricated to size. The use of Stainless Steel Adapter Strips, Very High Bond Tape, and Splice Pins are required during the installation process (see page 251B).

When using CRL Blumcraft's 324, 339, and 3243 Series Cap Rails, it is important to install the Stainless Steel Adapter Strips onto the glass edge with Very High Bond Tape before installing your Cap Rail (see page 251B for more information).

USE MONOLITHIC TEMPERED GLASS

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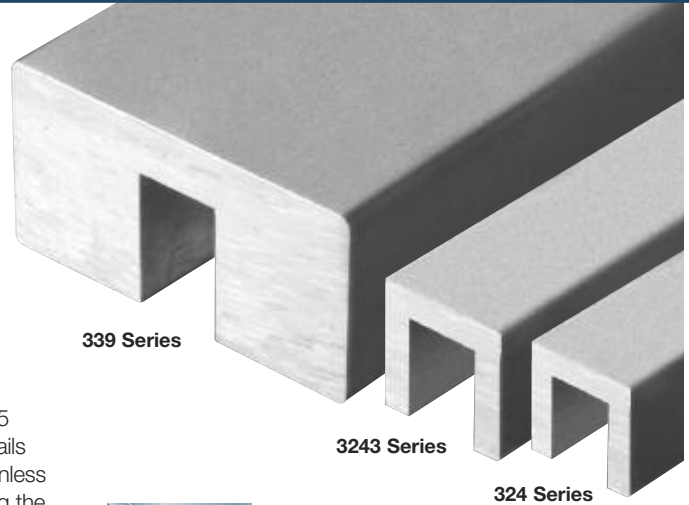
Install Cap Rail over Stainless Steel Adapter Strips on glass edge.

Use Cat. No. 22A58 Splice Pins for a secure joint.
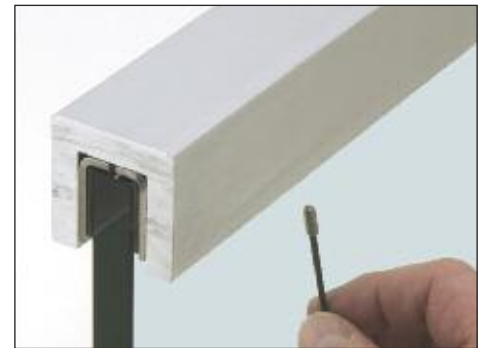
NOTE: Each Cap Rail comes complete with pre-drilled holes 24" (610 mm) on center and set screws along one side of the Cap Rail for proper attachment to the Adapter Strips.

339 SERIES ALUMINUM CAP RAIL FOR 1/2" (12 MM) GLASS IN 120" (3.05 M) LENGTHS

CAT. NO.	GRADE	FINISH	"W" WIDTH	"D" DEPTH	USE ADAPTER STRIP NO.	USE SPLICE PIN NO.
339SA	6063-T5	Satin Anodized	3/4" (19 mm)	1/2" (13 mm)	ST302	22A58
339DU	6063-T5	Dark Bronze Anodized	3/4" (19 mm)	1/2" (13 mm)	ST302	22A58
339M	6063-T5	Mill Aluminum	3/4" (19 mm)	1/2" (13 mm)	ST302	22A58

Minimum order: 1 each. All Aluminum Cap Rail can be combined for quantity pricing. Must ship common carrier.
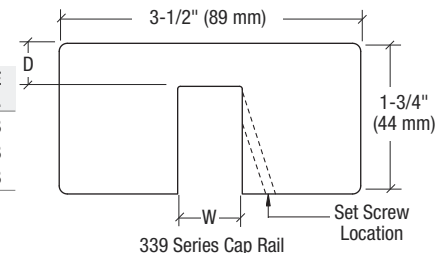
3-1/2" (89 mm)
1-3/4" (44 mm)
Set Screw Location
339 Series Cap Rail

3243 SERIES ALUMINUM CAP RAIL FOR 3/4" (19 MM) GLASS IN 120" (3.05 M) LENGTHS

CAT. NO.	GRADE	FINISH	"W" WIDTH	"D" DEPTH	USE ADAPTER STRIP NO.	USE SPLICE PIN NO.
3243SA	6063-T5	Satin Anodized	1" (25 mm)	3/8" (10 mm)	ST302	22A58
3243DU	6063-T5	Dark Bronze Anodized	1" (25 mm)	3/8" (10 mm)	ST302	22A58
3243M	6063-T5	Mill Aluminum	1" (25 mm)	3/8" (10 mm)	ST302	22A58

Minimum order: 1 each. All Aluminum Cap Rail can be combined for quantity pricing. Must ship common carrier.
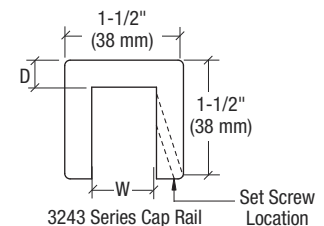
1-1/2" (38 mm)
1-1/2" (38 mm)
Set Screw Location
3243 Series Cap Rail

324 SERIES ALUMINUM CAP RAIL FOR 1/2" (12 MM) GLASS IN 120" (3.05 M) LENGTHS

CAT. NO.	GRADE	FINISH	"W" WIDTH	"D" DEPTH	USE ADAPTER STRIP NO.	USE SPLICE PIN NO.
324SA	6063-T5	Satin Anodized	3/4" (19 mm)	5/16" (8 mm)	ST302	22A58
324DU	6063-T5	Dark Bronze Anodized	3/4" (19 mm)	5/16" (8 mm)	ST302	22A58
324M	6063-T5	Mill Aluminum	3/4" (19 mm)	5/16" (8 mm)	ST302	22A58

Minimum order: 1 each. All Aluminum Cap Rail can be combined for quantity pricing. Must ship common carrier.

1-3/8" (35 mm)
1-3/8" (35 mm)
Set Screw Location
324 Series Cap Rail

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CRL US ALUMINUM
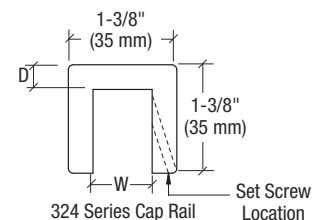
CRL Blumcraft® 337 and 338 Series Extruded Aluminum Cap Rails

- Extruded Heavy-Duty Solid Aluminum Construction for 1/2" (12 mm) Monolithic Tempered Glass
- Ready to Install
- Two Architectural Finishes, Plus Mill Aluminum Available From Stock
- Sold in 120" (3.05 m) Stock Lengths or Custom Fabricated to Size
- Stainless Steel Adapter Strips Sold Separately (See Page 251B)

CRL Blumcraft's top quality American-made Extruded Cap Rails are produced from 6063-T5 aluminum and are offered in two architectural finishes, plus mill aluminum. Cap Rails are sold in stock lengths or can be custom fabricated to size. The use of Stainless Steel Adapter Strips, Very High Bond Tape, and Splice Pins are required during the installation process (see page 251B).

When using CRL Blumcraft's 337 and 338 Series Aluminum Cap Rails, it is important to install the Stainless Steel Adapter Strips onto the glass edge with Very High Bond Cladding Tape before installing your Cap Rail (see page 251B for more information).

337 Series

338 Series

USE MONOLITHIC TEMPERED GLASS

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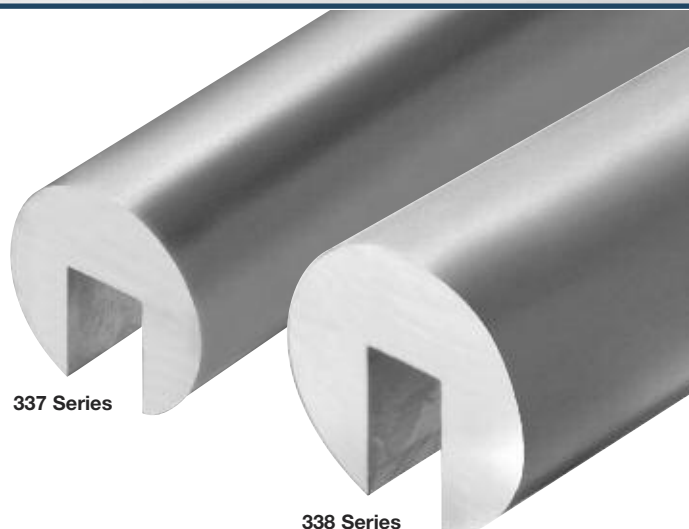
Install Cap Rail over Stainless Steel Adapter Strips on glass edge.

NOTE: Each Cap Rail comes complete with pre-drilled holes 24" (610 mm) on center with set screws along one side of the Cap Rail for proper attachment to the Adapter Strips.

D

Set Screw Location
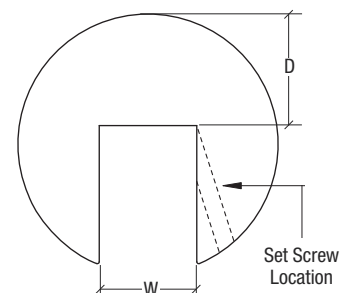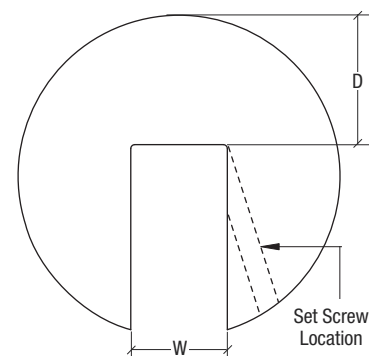
337 Series Cap Rail

337 SERIES 2" (51 MM) DIAMETER ALUMINUM CAP RAIL IN 120" (3.05 M) LENGTHS

CAT. NO.	GRADE	FINISH	"W" WIDTH	"D" DEPTH	USE ADAPTER STRIP NO.	USE SPLICE PIN NO.
337SA	6063-T5	Satin Anodized	3/4" (19 mm)	13/16" (21 mm)	ST302	22A58
337DU	6063-T5	Dark Bronze Anodized	3/4" (19 mm)	13/16" (21 mm)	ST302	22A58
337M	6063-T5	Mill Aluminum	3/4" (19 mm)	13/16" (21 mm)	ST302	22A58

Minimum order: 1 each. All Aluminum Cap Rail can be combined for quantity pricing. Must ship common carrier.

338 SERIES 2-1/2" (64 MM) DIAMETER ALUMINUM CAP RAIL IN 120" (3.05 M) LENGTHS

CAT. NO.	GRADE	FINISH	"W" WIDTH	"D" DEPTH	USE ADAPTER STRIP NO.	USE SPLICE PIN NO.
338SA	6063-T5	Satin Anodized	3/4" (19 mm)	7/8" (22 mm)	ST307	22A58
338DU	6063-T5	Dark Bronze Anodized	3/4" (19 mm)	7/8" (22 mm)	ST307	22A58
338M	6063-T5	Mill Aluminum	3/4" (19 mm)	7/8" (22 mm)	ST307	22A58

Minimum order: 1 each. All Aluminum Cap Rail can be combined for quantity pricing. Must ship common carrier.

D

Set Screw Location

W

338 Series Cap Rail

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CRL US ALUMINUM

CRL Blumcraft® 376 and 398 Series Extruded Aluminum Cap Rails

- Extruded Heavy-Duty Solid Aluminum Construction for 1/2" (12 mm) Monolithic Tempered Glass
- Ready to Install
- Two Architectural Finishes, Plus Mill Aluminum Available From Stock
- Sold in 120" (3.05 m) Stock Lengths or Custom Fabricated to Size
- Custom Fabricated 3/4" (19 mm) Glass Cap Rails Are Also Available
- Stainless Steel Adapter Strips Sold Separately (See Page 251B)

CRL Blumcraft's top quality Extruded Cap Rails are produced from 6063-T5 aluminum and offered in two architectural finishes, plus mill aluminum. Cap Rails are sold in stock lengths or can be custom fabricated to size. The use of Stainless Steel Adapter Strips, Very High Bond Tape, and Splice Pins are required during the installation process (see page 251B).

When using CRL Blumcraft's 376 and 398 Series Cap Rails, it is important to install the Stainless Steel Adapter Strips onto the glass edge with Very High Bond Tape before installing your Cap Rail (see page 251B for more information).

376 Series

398 Series

USE MONOLITHIC TEMPERED GLASS

BLUMCRAFT®
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Install Cap Rail over Stainless Steel Adapter Strips on glass edge.

Use Cat. No. 22A58 Splice Pins for a secure joint.

NOTE: Each Cap Rail comes complete with pre-drilled holes 24" (610 mm) on center and set screws along one side of the Cap Rail for proper attachment to the Adapter Strips.

376 SERIES ELLIPTICAL ALUMINUM CAP RAIL IN 120" (3.05 M) LENGTHS

CAT. NO.	FINISH	"W" WIDTH	"D" DEPTH	USE ADAPTER STRIP NO.	USE SPLICE PIN NO.
376SA	Satin Anodized	3/4" (19 mm)	1-1/8" (29 mm)	ST302	22A58
376DU	Dark Bronze Anodized	3/4" (19 mm)	1-1/8" (29 mm)	ST302	22A58
376M	Mill Aluminum	3/4" (19 mm)	1-1/8" (29 mm)	ST302	22A58

Minimum order: 1 each. All Aluminum Cap Rail can be combined for quantity pricing. Must ship common carrier.

398 SERIES 4" (102 MM) WIDE RECTANGULAR ALUMINUM CAP RAIL IN 120" (3.05 M) LENGTHS

CAT. NO.	FINISH	"W" WIDTH	"D" DEPTH	USE ADAPTER STRIP NO.	USE SPLICE PIN NO.
398SA	Satin Anodized	3/4" (19 mm)	9/16" (14 mm)	ST302	22A58
398DU	Dark Bronze Anodized	3/4" (19 mm)	9/16" (14 mm)	ST302	22A58
398M	Mill Aluminum	3/4" (19 mm)	9/16" (14 mm)	ST302	22A58

Minimum order: 1 each. All Aluminum Cap Rail can be combined for quantity pricing. Must ship common carrier.

2-11/16" (68 mm)
D
2-1/16" (52 mm)
W
1-1/2" (38 mm)
Set Screw Location
1/16" (2 mm) Radius

4" (102 mm)
D
1-5/16" (33 mm)
13/16" (21 mm)
W
1-7/16" (36 mm)
Set Screw Location

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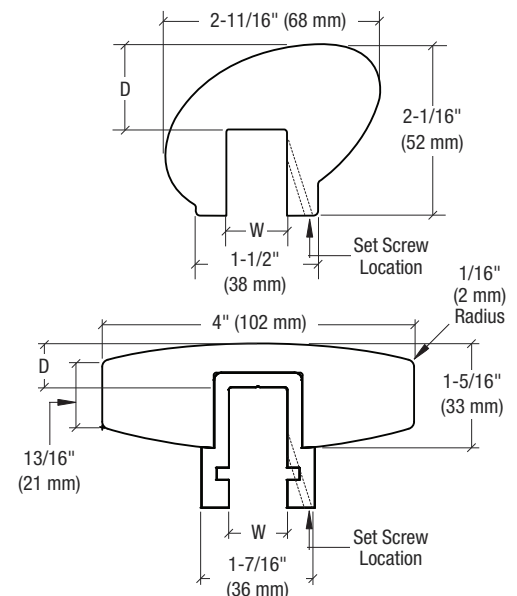
CRL Blumcraft® 636, 637, and 638 Series Extruded Aluminum Cap Rails

- Heavy-Duty Extruded Aluminum Construction for 1/2" (12 mm) Monolithic Tempered Glass
- Ready to Install
- Two Architectural Finishes, Plus Mill Available from Stock
- Sold in 120" (3.05 m) Stock Lengths or Custom Fabricated to Size
- Stainless Steel Adapter Strips Sold Separately (See Page 251B)

636 Series

637 Series

638 Series

BLUMCRAFT®
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USE MONOLITHIC TEMPERED GLASS

CRL Blumcraft's top quality Extruded Cap Rails are produced from 6063-T5 aluminum and offered in two architectural finishes, plus mill aluminum. Cap Rails are sold in stock lengths or can be custom fabricated to size. The use of Stainless Steel Adapter Strips, Very High Bond Tape, and Splice Pins are required during the installation process (see page 251B).

Each Cap Rail comes complete with pre-drilled holes 24" (610 mm) on center and set screws along one side of the Cap Rail for proper attachment to the Adapter Strips.

When using Blumcraft's 636, 637, and 638 Series Cap Rails, it is important to install the Stainless Steel Adapter Strips onto the glass edge with Very High Bond Tape before installing your Cap Rail (see page 251B for more information).

Caps Rails shown with Adapter Strips which are sold separately (see page 251B).

1-3/4" (45 mm)

638 Series 6" (152 mm) High

637 Series 5" (127 mm) High

636 Series 4" (102 mm) High

D

Set Screw Location

W

636 SERIES 1-3/4" X 4" (45 X 102 MM) ALUMINUM CAP RAIL IN 120" (3.05 M) LENGTHS

CAT. NO.	GRADE	FINISH	"W" WIDTH	"D" DEPTH	USE ADAPTER STRIP NO.	USE SPLICE PIN NO.
636SA	6063-T5	Satin Anodized	3/4" (19 mm)	1-3/4" (45 mm)	ST300	22A58
636DU	6063-T5	Dark Bronze Anodized	3/4" (19 mm)	1-3/4" (45 mm)	ST300	22A58
636M	6063-T5	Mill Aluminum	3/4" (19 mm)	1-3/4" (45 mm)	ST300	22A58

Minimum order: 1 each. All Aluminum Cap Rail can be combined for quantity pricing. Must ship common carrier.

637 SERIES 1-3/4" X 5" (45 X 127 MM) ALUMINUM CAP RAIL IN 120" (3.05 M) LENGTHS

CAT. NO.	GRADE	FINISH	"W" WIDTH	"D" DEPTH	USE ADAPTER STRIP NO.	USE SPLICE PIN NO.
637SA	6063-T5	Satin Anodized	3/4" (19 mm)	2-3/4" (70 mm)	ST300	22A58
637DU	6063-T5	Dark Bronze Anodized	3/4" (19 mm)	2-3/4" (70 mm)	ST300	22A58
637M	6063-T5	Mill Aluminum	3/4" (19 mm)	2-3/4" (70 mm)	ST300	22A58

Minimum order: 1 each. All Aluminum Cap Rail can be combined for quantity pricing. Must ship common carrier.

638 SERIES 1-3/4" X 6" (45 X 152 MM) ALUMINUM CAP RAIL IN 120" (3.05 M) LENGTHS

CAT. NO.	GRADE	FINISH	"W" WIDTH	"D" DEPTH	USE ADAPTER STRIP NO.	USE SPLICE PIN NO.
638SA	6063-T5	Satin Anodized	3/4" (19 mm)	3-3/4" (95 mm)	ST300	22A58
638DU	6063-T5	Dark Bronze Anodized	3/4" (19 mm)	3-3/4" (95 mm)	ST300	22A58
638M	6063-T5	Mill Aluminum	3/4" (19 mm)	3-3/4" (95 mm)	ST300	22A58

Minimum order: 1 each. All Aluminum Cap Rail can be combined for quantity pricing. Must ship common carrier.

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CRL US ALUMINUM
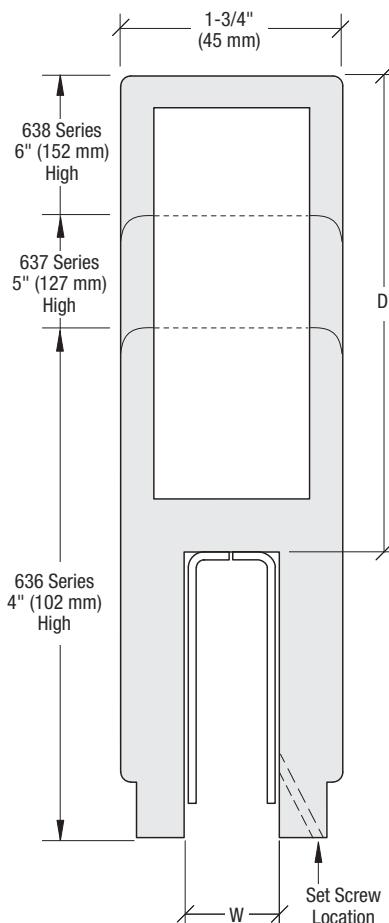
CRL Blumcraft® Decorative Flat End Caps for Aluminum Cap Rails

BLUMCRAFT®
A DIVISION OF C.R. LAURENCE CO., INC.

- Formed and Shaped to Fit, Ready to Install
- Available in Two Architectural Finishes, Plus Mill Aluminum

CRL Blumcraft's Decorative Flat End Caps for Aluminum Cap Rails are cut to size and are ready to install. Measuring 1/2" (13 mm) thick, these End Caps are designed to be mechanically installed to CRL Blumcraft Aluminum Cap Rails. Mounting studs and set screws are included.

324 Series   **3243 Series**   **337 Series**   **338 Series**

636 Series   **637 Series**   **638 Series**

398 Series   **339 Series**   **376 Series**
Left Hand Shown
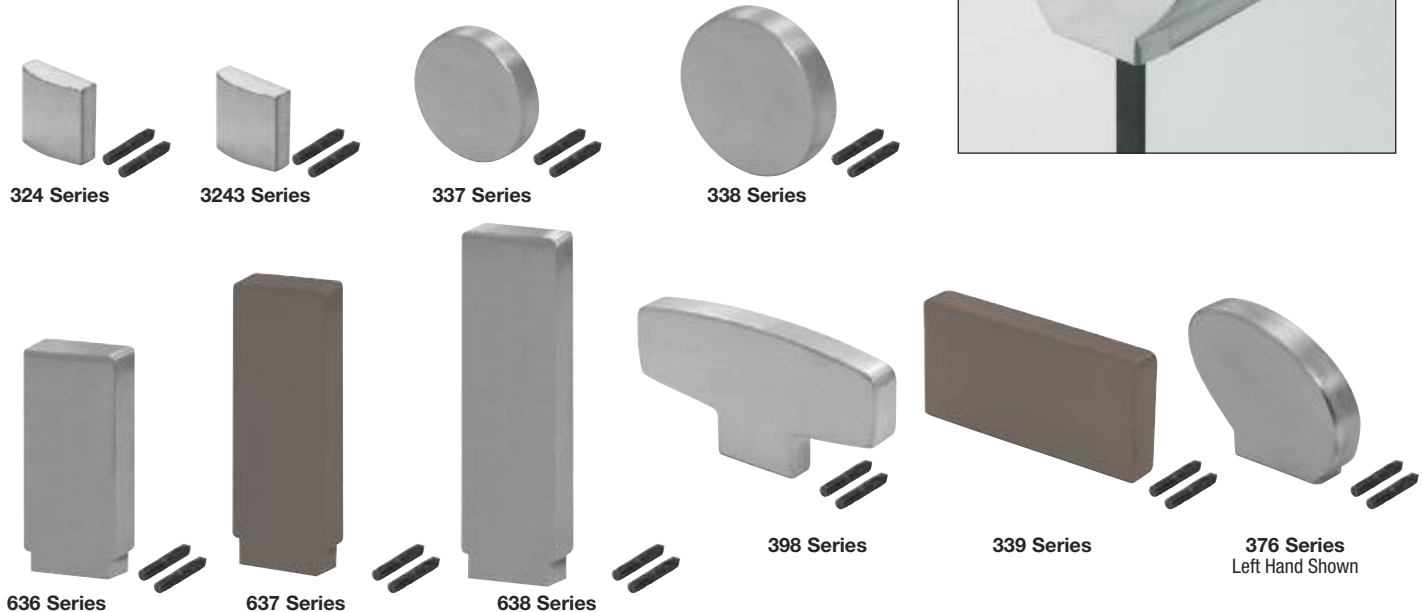
FOR 324 SERIES 1-3/8" (35 MM) SQUARE CAP RAILS

CAT. NO.	FINISH	FITS CAP RAIL NO.
324ECSA	Satin Anodized	324 Series
324ECDU	Dark Bronze Anodized	324 Series

Minimum order 1 each. All End Caps can be combined for quantity pricing.

FOR 3243 SERIES 1-1/2" (38 MM) SQUARE CAP RAILS

CAT. NO.	FINISH	FITS CAP RAIL NO.
3243ECSA	Satin Anodized	3243 Series
3243ECDU	Dark Bronze Anodized	3243 Series
3243ECM	Mill Aluminum	3243 Series

Minimum order 1 each. All End Caps can be combined for quantity pricing.

FOR 337 SERIES 2" (51 MM) DIAMETER CAP RAILS

CAT. NO.	FINISH	FITS CAP RAIL NO.
337ECSA	Satin Anodized	337 Series
337ECDU	Dark Bronze Anodized	337 Series
337ECM	Mill Aluminum	337 Series

Minimum order 1 each. All End Caps can be combined for quantity pricing.

FOR 338 SERIES 2-1/2" (63.5 MM) DIAMETER CAP RAILS

CAT. NO.	FINISH	FITS CAP RAIL NO.
338ECSA	Satin Anodized	338 Series
338ECDU	Dark Bronze Anodized	338 Series
338ECM	Mill Aluminum	338 Series

Minimum order 1 each. All End Caps can be combined for quantity pricing.

FOR 636 SERIES RECTANGULAR CAP RAILS

CAT. NO.	FINISH	FITS CAP RAIL NO.
636ECSA	Satin Anodized	636 Series
636ECDU	Dark Bronze Anodized	636 Series
636ECM	Mill Aluminum	636 Series

Minimum order 1 each. All End Caps can be combined for quantity pricing.

FOR 637 SERIES RECTANGULAR CAP RAILS

CAT. NO.	FINISH	FITS CAP RAIL NO.
637ECSA	Satin Anodized	637 Series
637ECDU	Dark Bronze Anodized	637 Series
637ECM	Mill Aluminum	637 Series

Minimum order 1 each. All End Caps can be combined for quantity pricing.

FOR 638 SERIES RECTANGULAR CAP RAILS

CAT. NO.	FINISH	FITS CAP RAIL NO.
638ECSA	Satin Anodized	638 Series
638ECDU	Dark Bronze Anodized	638 Series
638ECM	Mill Aluminum	638 Series

Minimum order 1 each. All End Caps can be combined for quantity pricing.

FOR 398 SERIES RECTANGULAR CAP RAILS

CAT. NO.	FINISH	FITS CAP RAIL NO.
398ECSA	Satin Anodized	398 Series
398ECDU	Dark Bronze Anodized	398 Series
398ECM	Mill Aluminum	398 Series

Minimum order 1 each. All End Caps can be combined for quantity pricing.

FOR 339 SERIES RECTANGULAR CAP RAILS

CAT. NO.	FINISH	FITS CAP RAIL NO.
339ECSA	Satin Anodized	339 Series
339ECDU	Dark Bronze Anodized	339 Series
339ECM	Mill Aluminum	339 Series

Minimum order 1 each. All End Caps can be combined for quantity pricing.

FOR 376 SERIES ELLIPTICAL CAP RAILS

LEFT HAND CAT. NO.	RIGHT HAND CAT. NO.	FINISH	FITS CAP RAIL NO.
376LECSA	376RECSA	Satin Anodized	376 Series
376LECDU	376RECDU	Dark Bronze Anodized	376 Series
376LECM	376RECM	Mill Aluminum	376 Series

Minimum order 1 each. All End Caps can be combined for quantity pricing.

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TOLL Phone: (800) 421-6144
FREE Fax: (800) 262-3299
From Anywhere in the U.S. or Canada

CRL US ALUMINUM

CRL Blumcraft® Stainless Steel Adapter Strips

- Provides Secure Fit Between Glass and Cap Rail
- Sets Are 48" (1.22 m) Long, and Install With CRL's Cladding Tape (Sold Separately, See Below)

BLUMCRAFT
A DIVISION OF C.R. LAURENCE CO., INC.
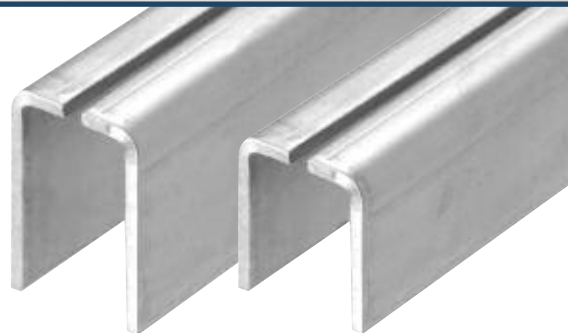
Adapter Strips shown between glass and Extruded Cap Rail.

CAT. NO.	DESCRIPTION	FOR USE WITH
ST302	48" (1.22 m) Adapter Strips 2 Per Set	324, 3243, 337, 339, 346, 347, 376, 398 Series Cap Rails
ST307	48" (1.22 m) Adapter Strips 2 Per Set	338, 372, 373, 397 Series Cap Rails
ST300	48" (1.22 m) Adapter Strips 2 Per Set	631, 632, 633, 636, 637, 638 Series Cap Rails

Minimum order: 1 set. All Adapter Strips can be combined for quantity pricing.

CRL Cladding Tape

- Pressure Sensitive High-Strength Adhesive With Tenacious Holding Power
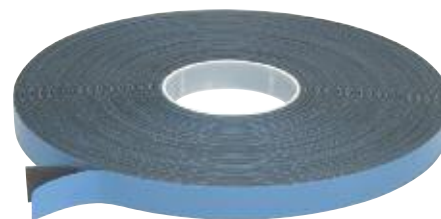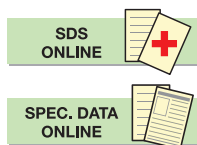
Our AT234 Cladding Tape is made of a high strength gray acrylic foam with a high tack adhesive for a permanent, secure bond.

SDS ONLINE

SPEC. DATA ONLINE

CAT. NO.	THICKNESS	WIDTH	ROLL LENGTH
AT234	.045" (1.1 mm)	3/4" (19 mm)	108' (33 m)

Minimum order: 1 roll.

CRL Blumcraft® Splice Pin Set

- 304 Grade Stainless Steel Pins Designed for Use With Blumcraft's Extruded Aluminum Cap and Hand Rails
- Provides Alignment and Secure Joining at Splice Locations
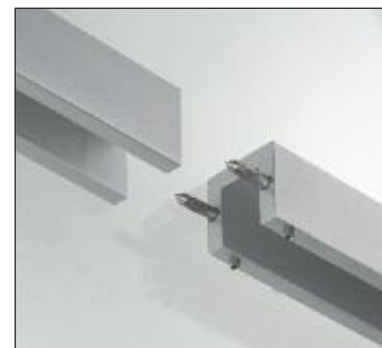
CAT. NO.	DESCRIPTION
22A58	Stainless Steel Splice Pin Set

Minimum order: 1 set. NOTE: Set screws require an 1/8" hex key (not included).

Each Set Consists of:
2 each Splice Pins 10-24 x 1/2"
1-5/16" (33 mm) Overall Length
2 each Set Screws 8-32 x 3/8"

CRL Blumcraft® Replacement Cap Rail Set Screws

- For Use With Blumcraft's Aluminum and Wood Cap Rails
- 304 Grade Stainless Steel
- Hold Cap Rails Securely to Adapter Strips

CAT. NO.	DESCRIPTION	FOR USE WITH
AS102412	10-24 x 1/2" Set Screws	324, 3243, 337, 338, 339, 346, 347, 372, 376, 397 Cap Rails
AS83258	8-32 x 5/8" Set Screws	631, 632, 633, 636, 637, 638 Cap Rails
AS632516	6-32 x 5/16" Set Screws	373, 398 Cap Rails

Minimum order: 10 each. Must be ordered in increments of 10.

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TOLL Phone: (800) 421-6144
FREE Fax: (800) 262-3299
From Anywhere in the U.S. or Canada

CRL US ALUMINUM

CRL Blumcraft® 346 and 347 Series Wood Cap Rails

- Variety of Eight Standard Hardwoods to Choose From for 1/2" (12 mm) Monolithic Tempered Glass
- Ready to Install
- Sub-Rails Included With All Wood Cap Rails
- Sold in 120" (3.05 m) Stock Lengths or Custom Fabricated to Size
- Custom Diameters and Shapes Also Available

346 Series

347 Series

CRL Blumcraft's top quality Wood Cap Rails are produced from high quality hardwoods. Wood Cap Rails are sold in stock lengths or can be custom fabricated to size. The use of Stainless Steel Adapter Strips, Very High Bond Tape, and Wood Biscuits are required during the installation process (all sold separately, see page 251B for more information).

Standard CRL Blumcraft® wood products are shipped in stock lengths and will need to be cut, sanded, and stained in the field by the installer.

NOTE: Each Cap Rail comes complete with pre-drilled holes 24" (610 mm) on center and set screws along one side of the Cap Rail for proper attachment to the Adapter Strips. Use CRL's Wood Splice Biscuits and Wood Glue when joining Wood Cap Rail joints and mitered corners together. See pages 256B and 257B for more information.

Cap Rails shown with Adapter Strips which are sold separately (see page 251B).

BLUMCRAFT®
A DIVISION OF C.R. LAURENCE CO., INC.

USE MONOLITHIC TEMPERED GLASS

NOTE: When using CRL Blumcraft's 346 and 347 Series Cap Rails, it is important to install the Stainless Steel Adapter Strips onto the glass edge with Very High Bond Tape before installing your Cap Rail (see page 251B for more information).

346 SERIES 2" (51 MM) DIAMETER WOOD CAP RAIL IN 120" (3.05 M) LENGTHS

CAT. NO.	FINISH	"W" WIDTH	"D" DEPTH	USE ADAPTER STRIP NO.
346WL	Walnut	3/4" (19 mm)	7/8" (22 mm)	ST302
346CR	Cherry	3/4" (19 mm)	7/8" (22 mm)	ST302
346MG	Mahogany	3/4" (19 mm)	7/8" (22 mm)	ST302
346W0	White Oak	3/4" (19 mm)	7/8" (22 mm)	ST302
346R0	Red Oak	3/4" (19 mm)	7/8" (22 mm)	ST302
346AS	Ash	3/4" (19 mm)	7/8" (22 mm)	ST302
346PL	Poplar	3/4" (19 mm)	7/8" (22 mm)	ST302
346MP	Maple	3/4" (19 mm)	7/8" (22 mm)	ST302

Minimum order: 1 each. Sizes and finishes can be combined for quantity pricing. Must ship common carrier.

347 SERIES 2-1/2" (64 MM) DIAMETER WOOD CAP RAIL IN 120" (3.05 M) LENGTHS

CAT. NO.	FINISH	"W" WIDTH	"D" DEPTH	USE ADAPTER STRIP NO.
347WL	Walnut	3/4" (19 mm)	1-3/8" (35 mm)	ST302
347CR	Cherry	3/4" (19 mm)	1-3/8" (35 mm)	ST302
347MG	Mahogany	3/4" (19 mm)	1-3/8" (35 mm)	ST302
347W0	White Oak	3/4" (19 mm)	1-3/8" (35 mm)	ST302
347R0	Red Oak	3/4" (19 mm)	1-3/8" (35 mm)	ST302
347AS	Ash	3/4" (19 mm)	1-3/8" (35 mm)	ST302
347PL	Poplar	3/4" (19 mm)	1-3/8" (35 mm)	ST302
347MP	Maple	3/4" (19 mm)	1-3/8" (35 mm)	ST302

Minimum order: 1 each. Sizes and finishes can be combined for quantity pricing. Must ship common carrier.

Use Cat. No. CRLWB1 Wood Splice Biscuit to join rails at joints and corners. See page 256B.

2" (51 mm) — D — W

2-1/2" (64 mm) — D — W

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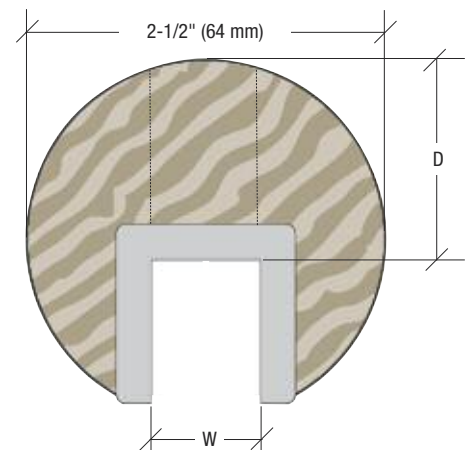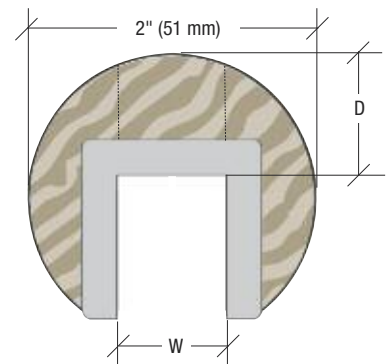
CRL Blumcraft® 397, 372, and 373 Series Wood Cap Rails

- Variety of Eight Standard Hardwoods to Choose From for 1/2" (12 mm) Monolithic Tempered Glass
- Ready to Install
- Sub-Rails Included With All Wood Cap Rails
- Sold in 120" (3.05 m) Stock Lengths or Custom Fabricated to Size
- Custom Diameters and Shapes Also Available

397 Series

372 Series

373 Series

CRL Blumcraft's top quality Wood Cap Rails are produced from high quality hardwoods. Wood Cap Rails are sold in stock lengths or can be custom fabricated to size. The use of Stainless Steel Adapter Strips, Very High Bond Tape, and Wood Biscuits are required during the installation process. See pages 251B, 256B, and 257B for more information.

Standard CRL Blumcraft® Wood products are shipped in stock lengths and will need to be cut, sanded, and stained in the field by the installer.

NOTE: Each Cap Rail comes complete with pre-drilled holes 24" (610 mm) on center and set screws along one side of the Cap Rail for attachment to the Adapter Strips. Use CRL's Wood Splice Biscuits and Wood Glue when joining Wood Cap Rail joints and mitered corners together. See pages 256B, and 257B for more information.

Cap Rails shown with Adapter Strips which are sold separately (see page 251B).

BLUMCRAFT®
A DIVISION OF C.R. LAURENCE CO., INC.

USE MONOLITHIC TEMPERED GLASS

NOTE: When using CRL Blumcraft's 397, 372, and 373 Series Cap Rails, it is important to install the Stainless Steel Adapter Strips onto the glass edge with Very High Bond Tape before installing your Cap Rail. See page 251B for more information.

397 SERIES WOOD CAP RAIL IN 120" (3.05 M) LENGTHS

CAT. NO.	FINISH	"W" WIDTH	"D" DEPTH	USE ADAPTER STRIP NO.
397WL	Walnut	3/4" (19 mm)	1-5/16" (33 mm)	ST302
397CR	Cherry	3/4" (19 mm)	1-5/16" (33 mm)	ST302
397MG	Mahogany	3/4" (19 mm)	1-5/16" (33 mm)	ST302
397W0	White Oak	3/4" (19 mm)	1-5/16" (33 mm)	ST302
397R0	Red Oak	3/4" (19 mm)	1-5/16" (33 mm)	ST302
397AS	Ash	3/4" (19 mm)	1-5/16" (33 mm)	ST302
397PL	Poplar	3/4" (19 mm)	1-5/16" (33 mm)	ST302
397MP	Maple	3/4" (19 mm)	1-5/16" (33 mm)	ST302

Minimum order: 1 each. Sizes and finishes can be combined for quantity pricing. Must ship common carrier.

372 SERIES WOOD CAP RAIL IN 120" (3.05 M) LENGTHS

CAT. NO.	FINISH	"W" WIDTH	"D" DEPTH	USE ADAPTER STRIP NO.
372WL	Walnut	3/4" (19 mm)	2-15/16" (75 mm)	ST302
372CR	Cherry	3/4" (19 mm)	2-15/16" (75 mm)	ST302
372MG	Mahogany	3/4" (19 mm)	2-15/16" (75 mm)	ST302
372W0	White Oak	3/4" (19 mm)	2-15/16" (75 mm)	ST302
372R0	Red Oak	3/4" (19 mm)	2-15/16" (75 mm)	ST302
372AS	Ash	3/4" (19 mm)	2-15/16" (75 mm)	ST302
372PL	Poplar	3/4" (19 mm)	2-15/16" (75 mm)	ST302
372MP	Maple	3/4" (19 mm)	2-15/16" (75 mm)	ST302

Minimum order: 1 each. Sizes and finishes can be combined for quantity pricing. Must ship common carrier.

373 SERIES WOOD CAP RAIL IN 120" (3.05 M) LENGTHS

CAT. NO.	FINISH	"W" WIDTH	"D" DEPTH	USE ADAPTER STRIP NO.
373WL	Walnut	3/4" (19 mm)	7/8" (22 mm)	ST302
373CR	Cherry	3/4" (19 mm)	7/8" (22 mm)	ST302
373MG	Mahogany	3/4" (19 mm)	7/8" (22 mm)	ST302
373W0	White Oak	3/4" (19 mm)	7/8" (22 mm)	ST302
373R0	Red Oak	3/4" (19 mm)	7/8" (22 mm)	ST302
373AS	Ash	3/4" (19 mm)	7/8" (22 mm)	ST302
373PL	Poplar	3/4" (19 mm)	7/8" (22 mm)	ST302
373MP	Maple	3/4" (19 mm)	7/8" (22 mm)	ST302

Minimum order: 1 each. Sizes and finishes can be combined for quantity pricing. Must ship common carrier.

Diagram dimensions:
- 1-3/4" (45 mm), 2-1/8" (54 mm), D, W
- 2" (51 mm), 3-3/4" (95 mm), D, W
- 4-1/2" (114 mm), 1-5/8" (41 mm), D, W

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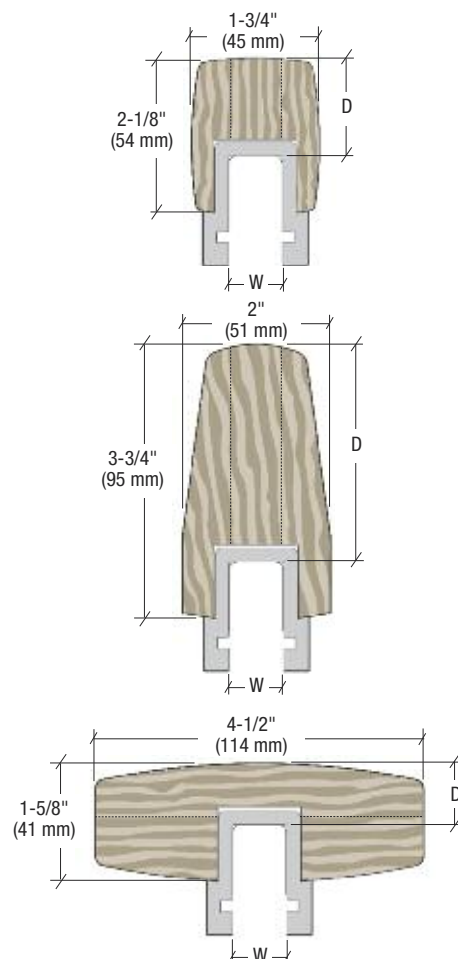
CRL Blumcraft® 631, 632, and 633 Series Wood Cap Rails

- Variety of Eight Standard Hardwoods to Choose From for 1/2" (12 mm) Monolithic Tempered Glass
- Ready to Install
- Sub-Rails Included With All Wood Cap Rails
- Sold in 120" (3.05 m) Stock Lengths or Custom Fabricated to Size
- Custom Diameters and Shapes Also Available

CRL Blumcraft's top quality Wood Cap Rails are produced from high quality hardwoods. Wood Cap Rails are sold in stock lengths or can be custom fabricated to size. The use of Stainless Steel Adapter Strips, Very High Bond Tape, and Wood Splice Biscuits are required during the installation process. See pages 251B, 256B, and 257B for more information.

Standard CRL Blumcraft® Wood products are shipped in stock lengths and will need to be cut, sanded, and stained in the field by the installer.

NOTE: Each Cap Rail comes complete with pre-drilled holes 24" (610 mm) on center and set screws along one side of the Cap Rail for attachment to the Adapter Strips. Use CRL's Wood Splice Biscuits and Wood Glue when joining Wood Cap Rail joints and mitered corners together. See pages 256B, and 257B for more information.

631 Series

632 Series

633 Series

Cap Rails shown with Adapter Strips which are sold separately (see page 251B).

BLUMCRAFT
A DIVISION OF C.R. LAURENCE CO., INC.

USE MONOLITHIC TEMPERED GLASS

NOTE: When using CRL Blumcraft's 631, 632, and 633 Series Cap Rails, it is important to install the Stainless Steel Adapter Strips onto the glass edge with Very High Bond Tape before installing your Cap Rail. See page 251B for more information.

631 SERIES 2-1/2" X 4" (64 X 102 MM) WOOD CAP RAIL IN 120" (3.05 M) LENGTHS

CAT. NO.	FINISH	"W" WIDTH	"D" DEPTH	USE ADAPTER STRIP NO.
631WL	Walnut	3/4" (19 mm)	1-3/4" (45 mm)	ST300
631CR	Cherry	3/4" (19 mm)	1-3/4" (45 mm)	ST300
631MG	Mahogany	3/4" (19 mm)	1-3/4" (45 mm)	ST300
631W0	White Oak	3/4" (19 mm)	1-3/4" (45 mm)	ST300
631R0	Red Oak	3/4" (19 mm)	1-3/4" (45 mm)	ST300
631AS	Ash	3/4" (19 mm)	1-3/4" (45 mm)	ST300
631PL	Poplar	3/4" (19 mm)	1-3/4" (45 mm)	ST300
631MP	Maple	3/4" (19 mm)	1-3/4" (45 mm)	ST300

Minimum order: 1 each. Sizes and finishes can be combined for quantity pricing. Must ship common carrier.

632 SERIES 2-1/2" X 6" (64 X 152 MM) WOOD CAP RAIL IN 120" (3.05 M) LENGTHS

CAT. NO.	FINISH	"W" WIDTH	"D" DEPTH	USE ADAPTER STRIP NO.
632WL	Walnut	3/4" (19 mm)	3-3/4" (95 mm)	ST300
632CR	Cherry	3/4" (19 mm)	3-3/4" (95 mm)	ST300
632MG	Mahogany	3/4" (19 mm)	3-3/4" (95 mm)	ST300
632W0	White Oak	3/4" (19 mm)	3-3/4" (95 mm)	ST300
632R0	Red Oak	3/4" (19 mm)	3-3/4" (95 mm)	ST300
632AS	Ash	3/4" (19 mm)	3-3/4" (95 mm)	ST300
632PL	Poplar	3/4" (19 mm)	3-3/4" (95 mm)	ST300
632MP	Maple	3/4" (19 mm)	3-3/4" (95 mm)	ST300

Minimum order: 1 each. Sizes and finishes can be combined for quantity pricing. Must ship common carrier.

633 SERIES 2-1/2" X 8" (64 X 203 MM) WOOD CAP RAIL IN 120" (3.05 M) LENGTHS

CAT. NO.	FINISH	"W" WIDTH	"D" DEPTH	USE ADAPTER STRIP NO.
633WL	Walnut	3/4" (19 mm)	5-3/4" (146 mm)	ST300
633CR	Cherry	3/4" (19 mm)	5-3/4" (146 mm)	ST300
633MG	Mahogany	3/4" (19 mm)	5-3/4" (146 mm)	ST300
633W0	White Oak	3/4" (19 mm)	5-3/4" (146 mm)	ST300
633R0	Red Oak	3/4" (19 mm)	5-3/4" (146 mm)	ST300
633AS	Ash	3/4" (19 mm)	5-3/4" (146 mm)	ST300
633PL	Poplar	3/4" (19 mm)	5-3/4" (146 mm)	ST300
633MP	Maple	3/4" (19 mm)	5-3/4" (146 mm)	ST300

Minimum order: 1 each. Sizes and finishes can be combined for quantity pricing. Must ship common carrier.

2-1/2" (64 mm)

633 Series 8" (203 mm) High

632 Series 6" (152 mm) High

631 Series 4" (102 mm) High

D

W

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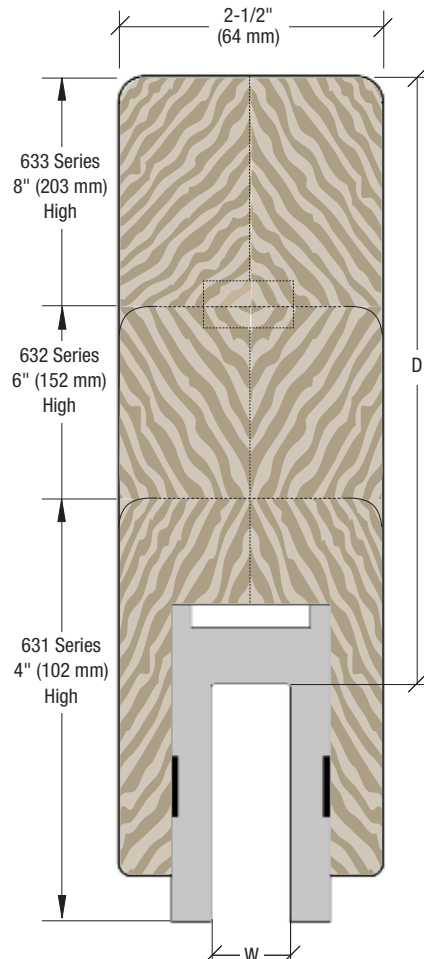
CRL US ALUMINUM

CRL Blumcraft® Aluminum Flat End Caps for Wood Cap Rails

BLUMCRAFT®
A DIVISION OF C.R. LAURENCE CO., INC.

- Formed and Shaped to Fit, Ready to Install
- Available in Two Architectural Finishes, Plus Mill Aluminum

CRL Blumcraft's Aluminum Flat End Caps for Wood Cap Rails are cut to size and ready to install. Measuring 1/2" (13 mm) thick, these End Caps are designed to be installed to the end of CRL Blumcraft® Wood Cap Rails with included mounting studs and set screws. Custom shapes and sizes are also available. Contact Railing Technical Sales for more information.

346 Series

347 Series

372 Series

373 Series

397 Series

631 Series

632 Series

633 Series
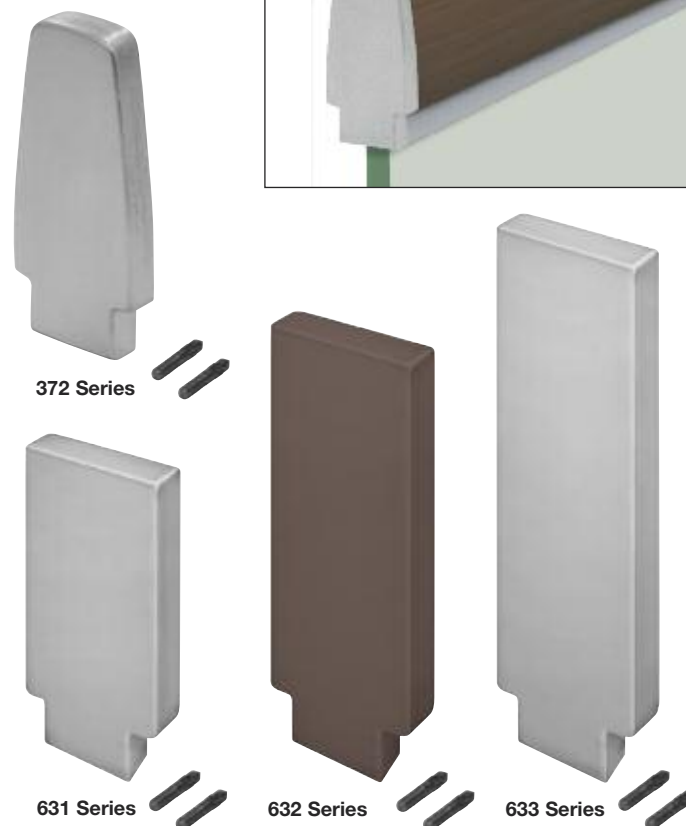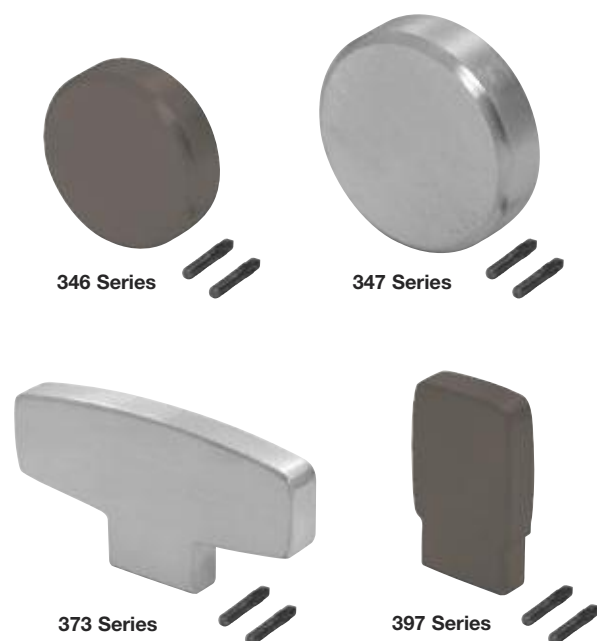
FOR 346 SERIES 2" (51 MM) DIAMETER WOOD CAP RAILS

CAT. NO.	FINISH	FITS CAP RAIL NO.
346ECSA	Satin Anodized	346 Series
346ECDU	Dark Bronze Anodized	346 Series
346ECM	Mill Aluminum	346 Series

Minimum order 1 each. All End Caps can be combined for quantity pricing.

FOR 347 SERIES 2-1/2" (64 MM) DIAMETER WOOD CAP RAILS

CAT. NO.	FINISH	FITS CAP RAIL NO.
347ECSA	Satin Anodized	347 Series
347ECDU	Dark Bronze Anodized	347 Series
347ECM	Mill Aluminum	347 Series

Minimum order 1 each. All End Caps can be combined for quantity pricing.

FOR 372 SERIES WOOD CAP RAILS

CAT. NO.	FINISH	FITS CAP RAIL NO.
372ECSA	Satin Anodized	372 Series
372ECDU	Dark Bronze Anodized	372 Series
372ECM	Mill Aluminum	372 Series

Minimum order 1 each. All End Caps can be combined for quantity pricing.

FOR 373 SERIES WOOD CAP RAILS

CAT. NO.	FINISH	FITS CAP RAIL NO.
373ECSA	Satin Anodized	373 Series
373ECDU	Dark Bronze Anodized	373 Series
373ECM	Mill Aluminum	373 Series

Minimum order 1 each. All End Caps can be combined for quantity pricing.

FOR 397 SERIES WOOD CAP RAILS

CAT. NO.	FINISH	FITS CAP RAIL NO.
397ECSA	Satin Anodized	397 Series
397ECDU	Dark Bronze Anodized	397 Series
397ECM	Mill Aluminum	397 Series

Minimum order 1 each. All End Caps can be combined for quantity pricing.

FOR 631 SERIES WOOD CAP RAILS

CAT. NO.	FINISH	FITS CAP RAIL NO.
631ECSA	Satin Anodized	631 Series
631ECDU	Dark Bronze Anodized	631 Series
631ECM	Mill Aluminum	631 Series

Minimum order 1 each. All End Caps can be combined for quantity pricing.

FOR 632 SERIES WOOD CAP RAILS

CAT. NO.	FINISH	FITS CAP RAIL NO.
632ECSA	Satin Anodized	632 Series
632ECDU	Dark Bronze Anodized	632 Series
632ECM	Mill Aluminum	632 Series

Minimum order 1 each. All End Caps can be combined for quantity pricing.

FOR 633 SERIES WOOD CAP RAILS

CAT. NO.	FINISH	FITS CAP RAIL NO.
633ECSA	Satin Anodized	633 Series
633ECDU	Dark Bronze Anodized	633 Series
633ECM	Mill Aluminum	633 Series

Minimum order 1 each. All End Caps can be combined for quantity pricing.

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From Anywhere in the U.S. or Canada

CRL US ALUMINUM

CRL Wood Cap Rails for 1/2", 5/8", or 3/4" (12, 16, or 19 mm) Glass

- 10 Foot (3.05 m) Stock Lengths Available in a Variety of Hardwoods
- Extruded Aluminum Interior Glass Pocket
- Custom Ordered to Meet Your Specific Needs
- Custom Diameters and Shapes Available

CRL Wood Cap Rails are produced to the customer's specifications, and can be fully fabricated or shipped in 10 foot (3.05 m) stock lengths. They are available in many different configurations, sizes, and types of hardwoods. CRL Wood Cap Rails have an extruded aluminum channel installed, providing a glass pocket, while adding strength, and preventing the wood from splitting.

Delivery is dependent on availability of the wood and production time. Maximum 10 foot (3.05 m) lengths are standard; longer lengths are available on special order and dependent upon wood selected. All Wood Cap Rails ship unfinished, and are ready to be stained at the job site. CRL Cat. No. CRLWB1 Wood Biscuits are available for corner fabrication (see below).

NOTE: 95CBL Silicone (see page 125B) and Tuff-Pak Glass Setting Tape (see **crlaurence.com**) should be used to secure the Wood Cap Rail to tempered glass.

Walnut

Cherry

Mahogany

White Oak

Red Oak

Ash

Poplar

Maple

7/8" (22 mm)

3/4" (19 mm)

USE MONOLITHIC TEMPERED GLASS

1-1/8" (29 mm)

1" (25 mm)
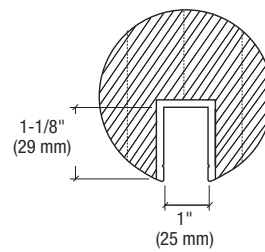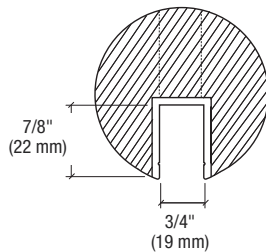
120" (3.05 M) WOOD CAP RAILS FOR 1/2" (12 MM) OR 5/8" (16 MM) GLASS

2" (51 MM) DIA. CAT. NO.	2-1/2" (64 MM) DIA. CAT. NO.	3" (76 MM) DIA. CAT. NO.	WOOD TYPE
WCR20WL	WCR25WL	WCR30WL	Walnut
WCR20CR	WCR25CR	WCR30CR	Cherry
WCR20MG	WCR25MG	WCR30MG	Mahogany
WCR20W0	WCR25W0	WCR30W0	White Oak
WCR20R0	WCR25R0	WCR30R0	Red Oak
WCR20AS	WCR25AS	WCR30AS	Ash
WCR20PL	WCR25PL	WCR30PL	Poplar
WCR20MP	WCR25MP	WCR30MP	Maple

Minimum order: 1 each. Comes complete with 1" x 1" (25 x 25 mm) O.D. extruded aluminum channel installed. All Wood Rails are F.O.B. the nearest CRL service center.

120" (3.05 M) WOOD CAP RAILS FOR 3/4" (19 MM) GLASS

2-1/2" (64 MM) DIA. CAT. NO.	3" (76 MM) DIA. CAT. NO.	WOOD TYPE
WCR257WL	WCR307WL	Walnut
WCR257CR	WCR307CR	Cherry
WCR257MG	WCR307MG	Mahogany
WCR257W0	WCR307W0	White Oak
WCR257R0	WCR307R0	Red Oak
WCR257AS	WCR307AS	Ash
WCR257PL	WCR307PL	Poplar
WCR257MP	WCR307MP	Maple

Minimum order: 1 each. Comes complete with 1-1/4" x 1-1/4" (32 x 32 mm) O.D. extruded aluminum channel installed. All Wood Rails are F.O.B. the nearest CRL service center.

CRL Wood Biscuits

- Provides Excellent Holding Power
- Made From Compressed Cross-Hatched Beechwood
- Installs With Wood Glue (See Next Page)
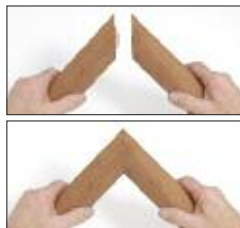
Use CRL Wood Biscuits when joining Wood Cap Rails and mitered Wood Hand Rail Corners. Die-cut from beechwood blanks, 1/8" (3 mm) thick Biscuits are compressed for strength and crosshatched for better glue bonding. When used with water-based glue (see opposite page), the Biscuit swells within the joint providing excellent holding power.

1-11/16" (43 mm)

5/8" (16 mm)

CAT. NO.	QTY/CTN
CRLWB1	25 Biscuits

Minimum order: 1 carton.

go to crlaurence.com to search for
cap-railing   Search   **256B**
or enter the Catalog Number for complete product information

TOLL Phone: (800) 421-6144
FREE Fax: (800) 262-3299
From Anywhere in the U.S. or Canada

CRL US ALUMINUM

CRL Flat End Caps for Wood Rails

- Ready to Install
- Formed and Shaped to Fit
- Available in a Variety of Hardwoods

CRL's Decorative Flat End Caps for Wood Rails are cut to size and are ready to install. Measuring 1/2" (13 mm) thick, these End Caps are designed to be glued to the end of CRL's Wood Cap Rails with wood glue (see below). Custom shapes and sizes are also available. Contact Railing Technical Sales for more information.

WOOD FLAT END CAPS FOR 1/2" (12 MM), 5/8" (16 MM), OR 3/4" (19 MM) GLASS

2" (51 MM) DIA. CAT. NO.	2-1/2" (64 MM) DIA. CAT. NO.	3" (76 MM) DIA. CAT. NO.	WOOD TYPE
WREC20WL	WREC25WL	WREC30WL	Walnut
WREC20CR	WREC25CR	WREC30CR	Cherry
WREC20MG	WREC25MG	WREC30MG	Mahogany
WREC20W0	WREC25W0	WREC30W0	White Oak
WREC20R0	WREC25R0	WREC30R0	Red Oak
WREC20AS	WREC25AS	WREC30AS	Ash
WREC20PL	WREC25PL	WREC30PL	Poplar
WREC20MP	WREC25MP	WREC30MP	Maple

Minimum order: 1 each. All sizes and finishes can be combined for quantity pricing.

CRL Dome End Caps for Wood Rails

- Ready to Install
- Formed and Shaped to Fit
- Available in a Variety of Hardwoods

CRL's Decorative Dome End Caps for Wood Rails are cut to size and are ready to install. Measuring 1" (25 mm) thick, these End Caps are designed to be glued to the ends of CRL's Wood Cap Rails with wood glue (see below). Custom shapes and sizes are also available. Contact Railing Technical Sales for more information.

WOOD DOME END CAPS FOR 1/2" (12 MM), 5/8" (16 MM), OR 3/4" (19 MM) GLASS

2" (51 MM) DIA. CAT. NO.	2-1/2" (64 MM) DIA. CAT. NO.	3" (76 MM) DIA. CAT. NO.	WOOD TYPE
WRDC20WL	WRDC25WL	WRDC30WL	Walnut
WRDC20CR	WRDC25CR	WRDC30CR	Cherry
WRDC20MG	WRDC25MG	WRDC30MG	Mahogany
WRDC20W0	WRDC25W0	WRDC30W0	White Oak
WRDC20R0	WRDC25R0	WRDC30R0	Red Oak
WRDC20AS	WRDC25AS	WRDC30AS	Ash
WRDC20PL	WRDC25PL	WRDC30PL	Poplar
WRDC20MP	WRDC25MP	WRDC30MP	Maple

Minimum order: 1 each. All sizes and finishes can be combined for quantity pricing.

CRL Titebond® III Wood Glue

- Waterproof Formula That Cleans Up With Water
- Designed for Interior and Exterior Applications
- Assembly Time: 10 Minutes
- Clamping Time: 30 Minutes

Use CRL Titebond® III Wood Glue when joining Wood Cap Rails, mitered Wood Hand Rail Corners, and installing Wood End Caps. This waterproof, water-based formula passes Type 1 water-resistance specifications and conforms to ASTM D-4236. Unaffected by finishes, this Glue will fully set within 24 hours and is designed for interior and exterior applications.

Titebond III is a registered trademark of Franklin International Corp.

CAT. NO.	CONTENTS
CRLWG1	8 Oz. (236 ml)

Minimum order: 1 each.

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cap-railing   Search

or enter the Catalog Number for complete product information

257B

TOLL Phone: (800) 421-6144
FREE Fax: (800) 262-3299
From Anywhere in the U.S. or Canada

CRL
US ALUMINUM

CRL Custom Cap Rail Fabrication

- Cutting, Mitering, Drilling, Bending, and Welding to Create the Perfect Cap Rail
- Round, Oval, Square, Even With Crisp Corners - We Can Do It All

CRL offers state-of-the-art custom fabrication to create the perfect Cap Rail for any project. No matter how difficult the install, CRL Manufacturing will assist with design plans for Cap Rails that are fabricated to reduce your labor time and effort.

All work is done in our California manufacturing facility, so we are in control of every step, from design to shipping. And we use only the finest materials for uniform fit and finish.

So if you have a railing project in need of something out of the ordinary, or a difficult install that is beyond your experience, contact CRL Railing Technical Sales. We will work with you to assure your railing project is the success your customers expect.

Low Profile   Round   Oval   Square   Crisp Corner
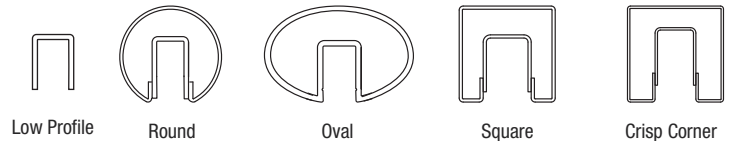
CRL Custom Cap Rail Finishing

- Many Finishing Options, Including Anodizing, Painting, Powder Coating, Brushing, and Polishing are All Done in CRL's Own Plant

At CRL we operate our own Polishing and Finishing Department in a climate controlled environment. We're experts in working with stainless steel, brass, and aluminum to produce painted, satin, brushed, hairline, and bright polished finishes. Whatever your requirement, we can provide beautifully finished Cap Railing to your specifications.

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cap-railing   Search

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TOLL Phone: (800) 421-6144
FREE Fax: (800) 262-3299
From Anywhere in the U.S. or Canada

CRL
US ALUMINUM

CRL GRS CAP RAILING SYSTEMS

System: TAPER-LOC® Glass Railing With Low Profile Square Top Cap

System: TAPER-LOC® Glass Railing With 1-1/2" (38 mm) Hand Rail and 2" (51 mm) Top Cap

System: TAPER-LOC® Glass Railing With 2" (51 mm) Top Cap and 1-1/2" (38 mm) Hand Rail

System: TAPER-LOC® Glass Railing With 2" (51 mm) Top Cap

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TOLL Phone: (800) 421-6144
FREE   Fax: (800) 262-3299
From Anywhere in the U.S. or Canada

CRL
US ALUMINUM
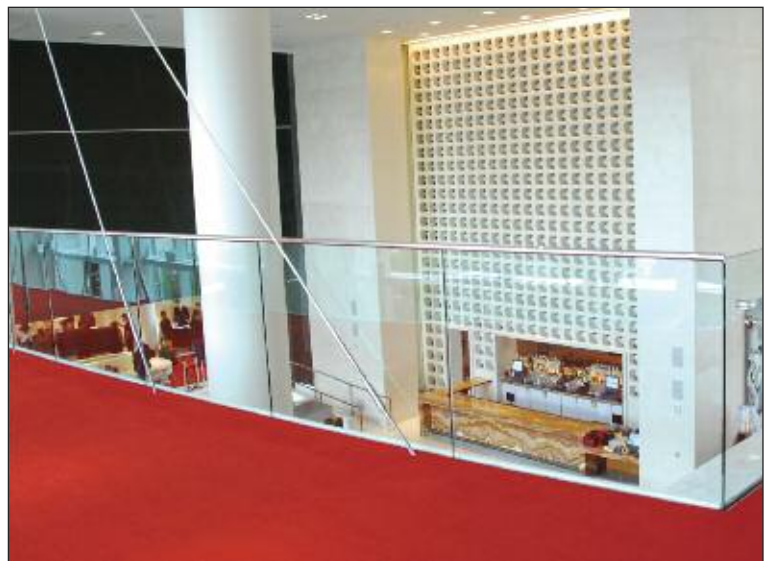
CRL LED Lighted Cap Rail System

- Low Voltage 24 Volt DC Power
- Two Popular Stock Colors: Warm White and Cool White
- 50,000 Hour LED Life
- Only 4.3 Watts Per Foot

The Benefits of LED Lighting Versus Fluorescent Lights

LED (Light-Emitting Diode) technology offers many benefits over older, traditional lighting technologies, such as fluorescent lamps. LED products use up to 70% less energy than fluorescent lamps, are highly durable, able to withstand cold environments, contain no mercury, and are cool to the touch-- making them safe choices for areas where people come into contact with lighting. With six times the expected lifetime of a fluorescent lamp, LED lighting systems require less maintenance and won't suffer from expensive relamping trips to the field. Using LEDs is an easy choice when you have the ability to resize LED light strips in the field, a simple field installation, and a safe, low-voltage system. **NOTE:** 50,000 hours is the estimated rated lifetime provided from the LED manufacturer and are calculated to 50% light output. Lifetimes listed at room temperature.

LED Strip Lights
See Page 261B

GR16 Cap Rail

Low Voltage Driver
See Page 261B
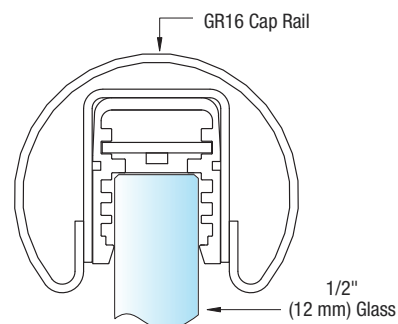
Premium Cap Rail
See Page 216B

1/2"
(12 mm) Glass

Driver Enclosure Box

See Page 261B

Cap Rail LED Lighting/Housing
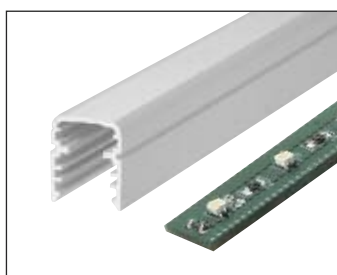
See Pages 261B to 262B

LED Housing Mounting Clip

See Page 262B

LED Wiring

See Page 263B

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LED-lighting   Search

or enter the Catalog Number for complete product information

260B

TOLL Phone: (800) 421-6144
FREE Fax: (800) 262-3299
From Anywhere in the U.S. or Canada

CRL US ALUMINUM

CRL LED LIGHTING FOR CAP RAILINGS

CRL LED Lighting Components

- Ideal for Edge Lighting of Glass Panels
- Illuminates Carved or Sandblasted Images
- Meets NFPA Life Safety Code for Illumination
- 50,000 Hour LED Life
- Low Voltage - Low Maintenance
- 4.3 Watts Per Foot

CRL LED Strip Lights

- Low Voltage Lighting Available in Five Stock Sizes
- Two Popular Stock Colors: Warm and Cool White
- Custom Colors Also Available on Special Order

Cap Rail Insert Housing Sold Separately (see page 262B)
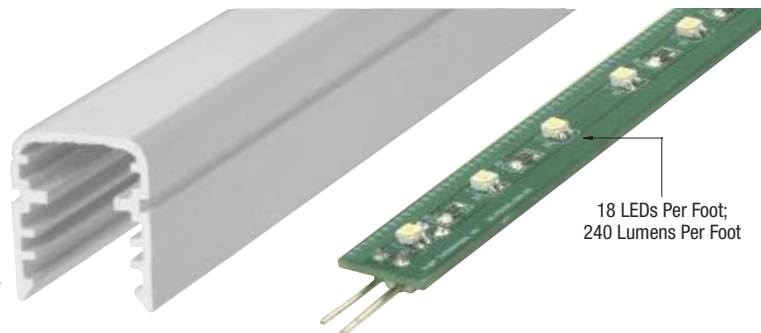
18 LEDs Per Foot; 240 Lumens Per Foot

WARM WHITE CAT. NO.	COOL WHITE CAT. NO.	STRIP LENGTH
LED24WW	LED24CW	24" (610 mm)
LED36WW	LED36CW	36" (914 mm)
LED48WW	LED48CW	48" (1219 mm)
LED60WW	LED60CW	60" (1524 mm)
LED72WW	LED72CW	72" (1829 mm)

Minimum order: 1 each.

CRL LED Strip Lights have 18 LEDs per foot, which are spaced 3/4" (19 mm) on center. Available in stock lengths from 24" to 72" (610 to 1829 mm), they can be cut down every 4" (102 mm) on a pre-marked line, and connected together for longer applications.

Cool White has a blue hue or appearance, while the Warm White has a more traditional yellow hue. CRL LED Strip Lights work with our Low Voltage Driver and Enclosure Box (see below). They do not come with a plug.

CRL Low Voltage LED Driver

- 100W 24V Driver Provides 24V DC
- 120V to 277V Universal Input
- UL Class 2 Rated
- For Dry and Damp Locations
- Powers Up to 20'-0" of Lighting With CRL's 14 Gauge Wire

The Low Voltage LED Driver converts 120/240 Volt AC into low voltage DC power. These solid-state units have special circuitry to provide only the voltage and current demand required by the LEDs, and no more.

CAT. NO.	DESCRIPTION
PT10024	100 Watt - 24 Volt DC LED Driver

Minimum order: 1 each.

CRL LED Driver Enclosure Box

- Nema 3R Screw Cover Rain Proof Box
- Holds Up to Two LED Drivers
- Designed for Interior and Exterior Use

Height: 10" (254 mm)
Width: 8" (203 mm)
Depth: 4" (102 mm)

This Driver Enclosure Box is made of steel and painted gray. It has plenty of room to accommodate two of the LED Drivers shown at left. It prevents tampering and protects the Drivers.

CAT. NO.	DESCRIPTION
EJ1084	LED Driver Enclosure Box

Minimum order: 1 each.

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261B

TOLL Phone: (800) 421-6144
FREE Fax: (800) 262-3299
From Anywhere in the U.S. or Canada

CRL US ALUMINUM

CRL Cap Rail Housing Insert for Glass Panel Edge Lighting

- For Use With CRL Cap Rails When Edge Lighting Glass Panels
- Installs With CRL 95C Silicone and Housing Shims (See Below)

This CRL Cap Rail Housing Insert slips over the 1/2" (12 mm) glass panel and provides a protected securing channel for the glass. It also has a slot for the LED Light Strip and an insulated wire raceway behind the LED Light Strip. Permanent securing is achieved by applying a bead of Cat. No. 95CBL Black Silicone (see page 125B) in the pocket on either side of the glass. LED Strip Lights must be ordered separately (see page 261B).

GR16 Cap Rail

1/2" (12 mm) Glass
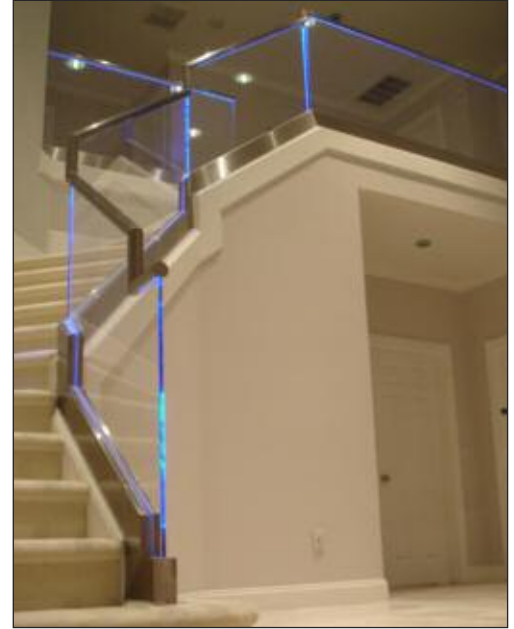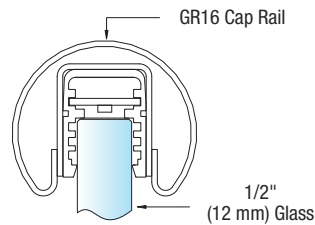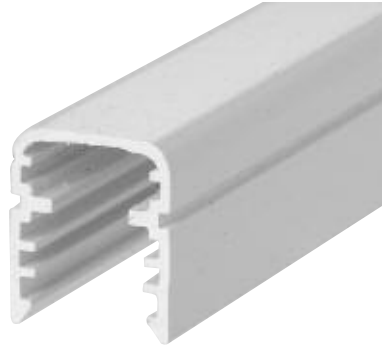
INSERT ONLY CAT. NO.	LENGTH
LEDCR6	72" (1829 mm)

Minimum order: 1 each.

CRL LED Housing Mounting Clip

- Installs at Each End to Wedge Housing Into the Cap Rail

18 Gauge Jumper Wire
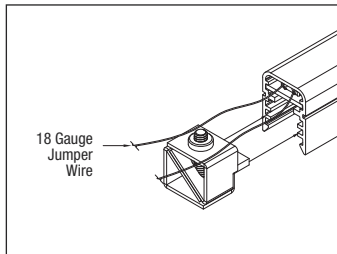
Feed 18 Gauge Jumper Wire as shown and slide Clip in Cap Rail Housing into Slot.

Cap Rail

Cap Rail Housing

Mounting Clip Mounts Inside Cap Rail

Philips Head

Tightening Clamp Pushes Against Inside of Cap Rail
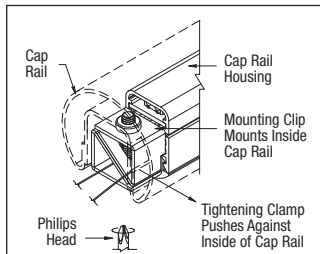
After Jumper Wire and Mounting Clips are inserted into Cap Rail, screw into Cap Rail Housing. Clip will expand until tight with Housing. Make sure Clips are securely fastened.

CAT. NO. LEDMC1
10 Clips per pack.
Minimum order is one pack.

Cap Rail Housing Sold Separately (see above)

CRL LED Housing Shim Pack

- Helps Hold Cap Rail Housing in Position During Installation

Insert Cap Rail with completed Cap Rail Housing and LED Strip Lights onto glass. Glass enters base of Cap Rail Housing and stops at interior housing tabs. **NOTE:** If loose after glass insertion, cut LED Housing Shims to size and insert between glass and housing.

CAT. NO. LEDST1
10 Shims per pack.
Minimum order is one pack.

Insert Shims for Secure Fit

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LED-lighting Search

or enter the Catalog Number for complete product information

262B

TOLL Phone: (800) 421-6144
FREE Fax: (800) 262-3299
From Anywhere in the U.S. or Canada

CRL US ALUMINUM

CRL LED LIGHTING FOR CAP RAILINGS

CRL LED Lead Wire

- 14 Gauge Stranded Black Vinyl Coated Wire for Connections Between LED Drivers and LED Lighting
- 50 Foot Rolls Available From Stock

50 Foot (15.2 m) rolls of LED Lead Wire are standard 14 Gauge. Minimum order is one roll.

CAT. NO. LEDLW1

CRL Jumper Wires

- 18 Gauge Wiring for Connecting/Bridging LED Light Strips Together
- Available in Three Lengths

CAT. NO.	DESCRIPTION
LEDWR12	12" (305 mm) 18 Gauge Jumper Wire
LEDWR10	10' (3 m) 18 Gauge Jumper Wire
LEDWR50	50' (15.2 m) 18 Gauge Jumper Wire

Minimum order: 1 each.

CRL Silicone Based Wire Nuts

- Wire Nuts Used for LED Wiring Connections

Wire Nuts are sold in packs of 10 each. Minimum order is one pack.

CAT. NO. LEDWN1

CRL Jumper Pins

- Designed for Connecting/Bridging LED Light Strips
- Easy to Install

CAT. NO. LEDJP1

Jumper Pins come in packs of 10 Pins. Minimum order is one pack.
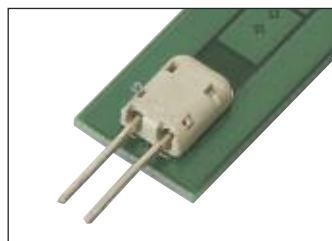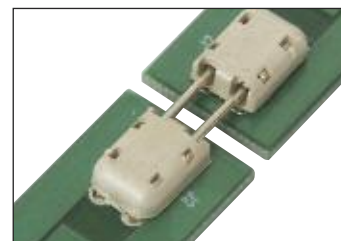
Insert Pins   Mate to adjoining Light Strip
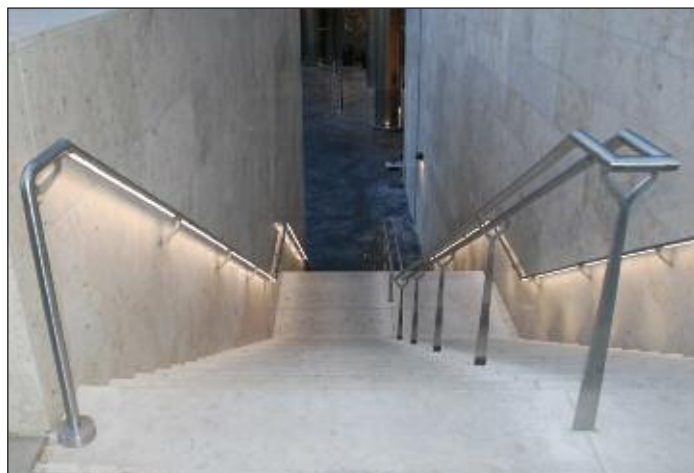
LED Light Strips in CRL Hand Railing Installed at Stair Locations
(See pages 373B-377B for Hand Rail LED Information)

go to crlaurence.com to search for

LED-lighting   Search   263B

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TOLL Phone: (800) 421-6144
FREE Fax: (800) 262-3299
From Anywhere in the U.S. or Canada

CRL U.S. ALUMINUM

System: TAPER-LOC® Glass Railing With 1-1/2" (38 mm) Square Cap Railing

System: TAPER-LOC® Glass Railing With Low Profile 1" (25 mm) Cap Railing

System: TAPER-LOC® Glass Railing with 1-1/2" (38 m) Top Cap

System: TAPER-LOC® Glass Railing With 2" (51 mm) Top Cap

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gallery   Search

or enter the Catalog Number for complete product information

264B

TOLL Phone: (800) 421-6144
FREE Fax: (800) 262-3299
From Anywhere in the U.S. or Canada

CRL
US ALUMINUM

System: TAPER-LOC® Glass Railing With Low Profile 1" (25 mm) Cap Railing

System: SRS Standoff Glass Railing With 2" (51 mm) Wood Top Cap and 1-1/2" (38 mm) Hand Rail.

System: TAPER-LOC® Glass Railing With 2" (51 mm) Top Cap and 1-1/2" (38 mm) Hand Rail

System: TAPER-LOC® Glass Railing With 2" (51 mm) Wood Top Cap

System: TAPER-LOC® Glass Railing With 2" (51 mm) Wood Top Cap and 2" (51 mm) Hand Rail

System: TAPER-LOC® Glass Railing With 2" (51 mm) Top Cap

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gallery   Search

265B

or enter the Catalog Number for complete product information

TOLL Phone: (800) 421-6144
FREE Fax: (800) 262-3299
From Anywhere in the U.S. or Canada

CRL US ALUMINUM

CRL EGR Elevated Glass Railing System

US ALUMINUM®
MANUFACTURED IN THE USA

USE MONOLITHIC TEMPERED GLASS

- Provides Excellent Drainage Capability for Residential or Commercial Applications
- Excellent for High-Rise Balconies
- Meets or Exceeds Guard Rail Code Standards
- Specially Designed Base Shoe Accepts 1/2" (12 mm) Monolithic Tempered Glass
- Seven Standard Powder Coated Finishes, Plus Mill Aluminum; Custom Finishes Also Available
- Custom Drilling and Fabrication Available

CRL's EGR Elevated Glass Railing System was designed for those applications that require substantial clearance underneath the Base Shoe for drainage, such as the balconies of high-rise hotels or condominiums. The EGR System allows water and debris to escape beneath the Base Shoe, and not dam up over time. This attractive system will meet these requirements and, at the same time, look good doing it.

STANDARD COLORS

Sky White Gloss	Oyster White Gloss	Agate Gray Gloss	Beige Gray Gloss	Black Matte	Bronze Matte	Silver Metallic

Colors shown are representative only, and may vary slightly from actual gloss, color, and texture. If color match is critical, please contact Technical Sales for additional information.

Additional Color Options - CRL has over 250 quick turn custom color options with the ability to color match as well.

CRL Cap Rail

1/2" (12 mm) Tempered Glass

WET GLAZE ONLY

Kwixset™ Expanding Cement

Elevated Glass Railing Base Shoe

3-1/2" (89 mm)

2" (51 mm) Clearance Between Base Shoe and Floor

Stainless Steel Stanchion

Welded Grout Lock

3" (76 mm)

4000 PSI Normal Weight Concrete

6" (152 mm)

24" (610 mm) Maximum on Center Stanchion Spacing

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elevated-railing   Search

266B

TOLL Phone: (800) 421-6144
FREE Fax: (800) 262-3299
From Anywhere in the U.S. or Canada

CRL US ALUMINUM®
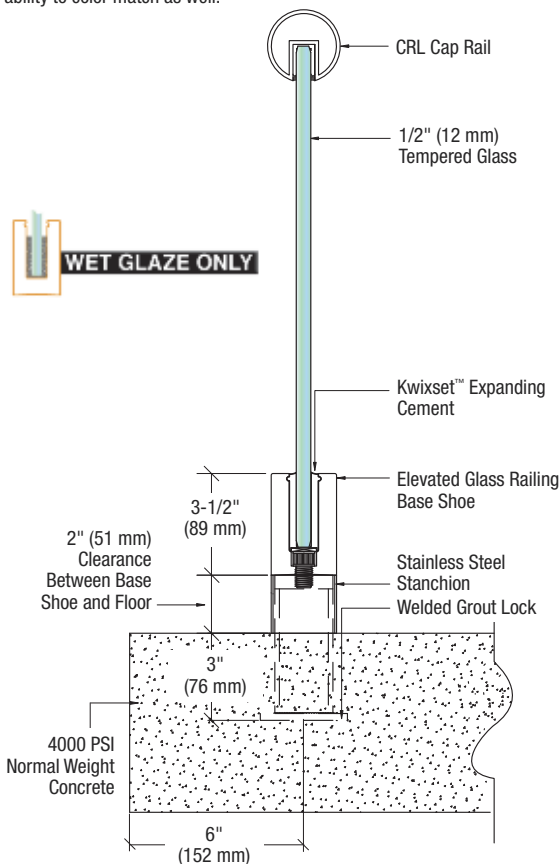
CRL EGR Elevated Glass Railing Base Shoe

- Ideal for Balconies That Require Clearance Under the Bottom Rail for Drainage
- Seven Standard Powder Coated Finishes; Custom Colors Also Available
- Pre-Drilled Slotted Holes 24" (610 mm) on Center for Easy Installation
- Custom Drilling and Fabrication Available

CRL's EGR Elevated Glass Railing Base Shoe is used as the base channel for elevated 1/2" (12 mm) tempered glass balusters utilizing the Wet Glaze Method of installing the glass. It is perched atop our EGR Stanchions to allow for drainage of water and debris, which is critical in high-rise and other commercial applications. A minimum 42" (1067 mm) railing height is recommended, but check your local building codes.

USE MONOLITHIC TEMPERED GLASS

New Safety Seal for Safer and Faster Installations. (see page 118B)

Gasket Retention Groove Secures the New Safety Seal

WET GLAZE ONLY

CAT. NO.	DESCRIPTION	FINISH
EGRB10D	120" (3.05 m) Elevated Base Shoe*	Mill
EGRB10DP	120" (3.05 m) Elevated Base Shoe*	Powder Coated▲

Minimum order: 1 each. * Stock lengths have a tolerance of plus or minus 3/4" (19 mm).
Must ship common carrier. ▲Specify powder coat color when ordering (see opposite page for standard colors).
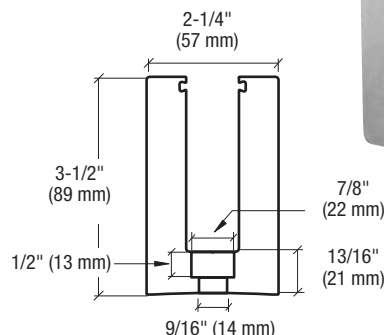
CRL EGR Stanchion Assembly

- Supplied Complete With Steel Washer and Ready to Install Into Concrete Substrate
- Grade 304 Stainless Steel

CRL's EGR Stanchions are designed for core-mounted installations in concrete. When installing the 5" (127 mm) Stanchions the minimum embedment depth is 3" (76 mm), giving you a 2" (51 mm) clearance under the Elevated Base Shoe. **NOTE:** Use CRL Cat. No. SHCS12X34 Socket Head Cap Screws (see page 189B) to properly secure the Base Shoe with the included Steel Washer to the Stanchion.

MANUFACTURED IN THE USA

CAT. NO.	DESCRIPTION	FINISH
EGRSA4	5" (127 mm) Stanchion Assembly	Mill
EGRW1	Replacement Steel Washer*	Mill

Minimum order: 1 each. *Minimum order 10 each.

Steel Washer
CAT. NO. EGRW1

Stanchion Assembly

Shown with Stanchion Cover (Sold Separately see below)
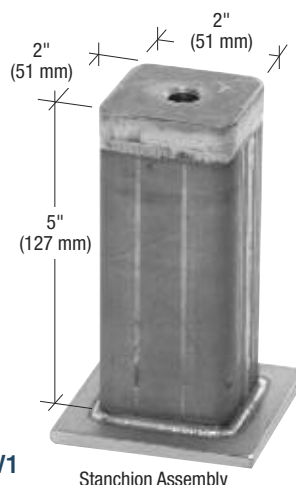
CRL EGR Stanchion Covers

- Sleeve Over EGR Stanchion
- Available Pre-Cut for Easy Installation

CRL's EGR Aluminum Stanchion Covers are designed to sleeve over the embedded Stainless Steel Stanchions before the Base Shoe is installed. Standard 2" (51 mm) size or 36" (914 mm) lengths you can cut to required height.

Stanchion Cover

CRL EGRSA4 Stainless Steel Stanchion (Sold Separately)
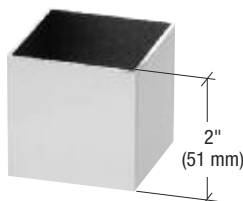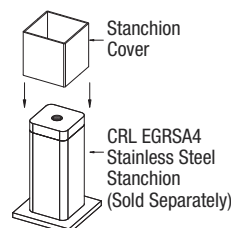
CAT. NO.	LENGTH	FINISH
EGRSC2M	2" (51 mm)	Mill Aluminum
EGRSC36M	36" (914 mm)	Mill Aluminum

Minimum order: 1 each.

CRL EGR Splice Plates

- Designed to Align and Splice Elevated Base Shoe
- 304 Grade Stainless Steel
- Supplied With Anchor Screws
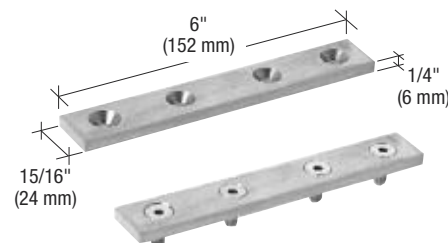
CRL's EGR Stainless Steel Splice Plates are used to splice together straight lengths of the Elevated Glass Railing Base Shoe. Splice Plates are constructed from 304 grade stainless steel. Each Splice Plate is supplied with four 1/2"-13 x 2" (51 mm) Flat Socket Head Stainless Screws.

CAT. NO.	DESCRIPTION	MATERIAL
EGRSP1	Splice Plate	304 Grade Stainless Steel

Minimum order: 10 each. Must be ordered in increments of 10.

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elevated-railing Search
or enter the Catalog Number for complete product information

267B

TOLL Phone: (800) 421-6144
FREE Fax: (800) 262-3299
From Anywhere in the U.S. or Canada

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CRL SRS STANDOFF RAILING SYSTEM

CRL Standoff Railing System

MODEL **NEW!**

- For Use With 1/2" and 3/4" (12 and 19 mm) Monolithic Tempered Glass or 9/16" and 27/32" (13.52 and 21.52 mm) Laminated Tempered Glass Using DuPont® SentryGlas® Interlayers
- Round and Square Designs Offered for Exterior and Interior Applications
- Two Architectural Finishes Available, With Powder Coated Finishes Available on Special Order
- Compact Design for Minimal Obstruction
- Designed for Guard Rail, Stairway or Ramp Areas
- Meets or Exceeds A.D.A. Requirements
- Custom Engineering and Fabrication Available

USE MONOLITHIC TEMPERED GLASS

or

USE LAMINATED TEMPERED GLASS

C.R. Laurence Company is now manufacturing our own Standoff Railing System. By specializing in the design and manufacturing of this innovative system, we offer you the ability to create custom railings that will address project-specific criteria. Product development is an ongoing process at CRL. Rest assured that the products we offer will represent the current evolution of the railing industry. For a full line of Cap Rails, Hand Rails, and Hand Rail Brackets, visit **crlaurence.com/railing-systems**.

ONLINE ARCHITECTURAL RESOURCES

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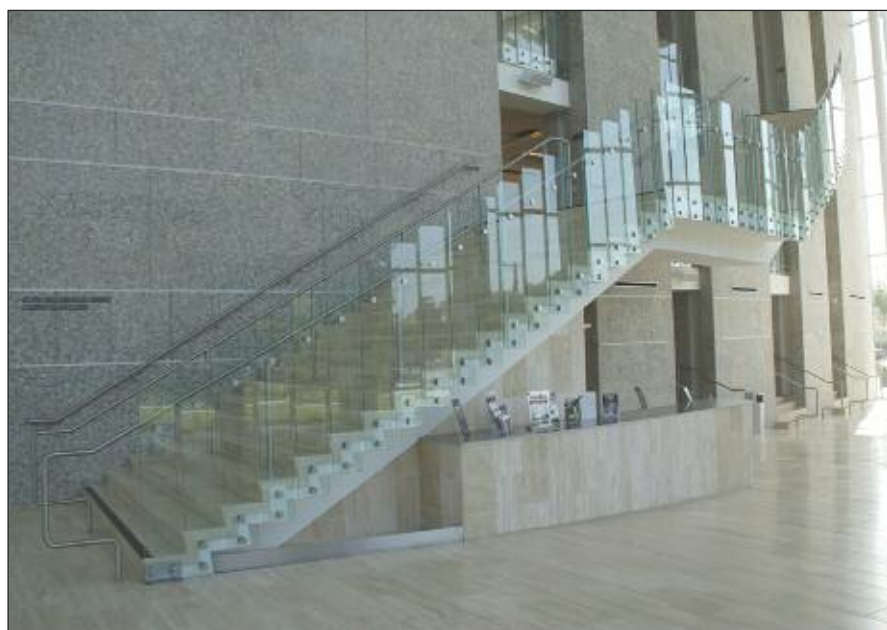
CRL Point Supported Square Standoff Base and Cap

NEW!

- For Use With 1/2" and 3/4" (12 and 19 mm) Monolithic Tempered Glass or 9/16" and 27/32" (13.52 and 21.52 mm) Laminated Tempered Glass Using DuPont® SentryGlas® Interlayers

USE MONOLITHIC TEMPERED GLASS

or

USE LAMINATED TEMPERED GLASS

SPECIFICATIONS:

For use with 1/2" or 3/4" (12 or 19 mm) Monolithic Tempered Glass. Also for use with 9/16" or 27/32" (13.52 or 21.52 mm) Laminated Tempered Glass using DuPont® SentryGlas® Interlayers. (Do not use with raw or annealed glass)

Glass Fabrication: One 3/4" (19 mm) Diameter Hole Per Fitting.

Spacing: Maximum horizontal spacing between fittings depends on its use and mounting conditions. The minimum height spacing is 4" (102 mm) center-to-center. Full engineering reports are available at **crlaurence.com/engineering**.

1-3/4" (44 mm) • 3/8" (10 mm) • 2" (51 mm) • 2" (51 mm)
2" (51 mm) Long 3/8"-16 Mounting Stud (Included) • 2" (51 mm) Square Washer • Black Neoprene Gasket • Square Standoff Cap

- Brushed or Polished 316 Grade Stainless

CAT. NO.	LENGTH	GRADE	FINISH
SS0B2134BS	1-3/4" (44 mm)	316	Brushed Stainless
SS0B2134PS	1-3/4" (44 mm)	316	Polished Stainless

Minimum order: 1 each. All Point Supported Standoffs can be combined for quantity pricing.

CRL Point Supported Standoff Base and Flat Cap

MODEL *NEW!*

- For Use With 1/2" and 3/4" (12 and 19 mm) Monolithic Tempered Glass or 9/16" and 27/32" (13.52 and 21.52 mm) Laminated Tempered Glass Using DuPont® SentryGlas® Interlayers

USE MONOLITHIC TEMPERED GLASS

or

USE LAMINATED TEMPERED GLASS

SPECIFICATIONS:

For use with 1/2" or 3/4" (12 or 19 mm) Monolithic Tempered Glass. Also for use with 9/16" or 27/32" (13.52 or 21.52 mm) Laminated Tempered Glass using DuPont® SentryGlas® Interlayers. (Do not use with raw or annealed glass)

Glass Fabrication: One 3/4" (19 mm) Diameter Hole Per Fitting.

Spacing: Maximum horizontal spacing between fittings depends on its use and mounting conditions. The minimum height spacing is 4" (102 mm) center-to-center. Full engineering reports are available at **crlaurence.com/engineering**.

Length • 3/8" (10 mm) • Flat Standoff Cap • 2" (51 mm)
2" (51 mm) Long 3/8"-16 Mounting Stud (Included) • 2" (51 mm) Diameter Washer • Black Neoprene Gasket

- Brushed or Polished 316 Grade Stainless

CAT. NO.	LENGTH	GRADE	FINISH
RS0B21BS	1" (25 mm)	316	Brushed Stainless
RS0B21PS	1" (25 mm)	316	Polished Stainless
RS0B2134BS	1-3/4" (44 mm)	316	Brushed Stainless
RS0B2134PS	1-3/4" (44 mm)	316	Polished Stainless

Minimum order: 1 each. All Point Supported Standoffs can be combined for quantity pricing.

CRL Point Supported Standoff Base and Domed Cap

MODEL *NEW!*

- For Use With 1/2" and 3/4" (12 and 19 mm) Monolithic Tempered Glass or 9/16" and 27/32" (13.52 and 21.52 mm) Laminated Tempered Glass Using DuPont® SentryGlas® Interlayers

USE MONOLITHIC TEMPERED GLASS

or

USE LAMINATED TEMPERED GLASS

SPECIFICATIONS:

For use with 1/2" or 3/4" (12 or 19 mm) Monolithic Tempered Glass. Also for use with 9/16" and 27/32" (13.52 and 21.52 mm) Laminated Tempered Glass using DuPont® SentryGlas® Interlayers. (Do not use with raw or annealed glass)

Glass Fabrication: One 3/4" (19 mm) Diameter Hole Per Fitting.

Spacing: Maximum horizontal spacing between fittings depends on its use and mounting conditions. The minimum height spacing is 4" (102 mm) center-to-center. Full engineering reports are available at **crlaurence.com/engineering**.

Length • 3/8" (10 mm) • Domed Cap • 2-3/8" (60 mm)
2" (51 mm) Long 3/8"-16 Mounting Stud (Included) • 2-3/8" (60 mm) Diameter Washer • Black Neoprene Gasket
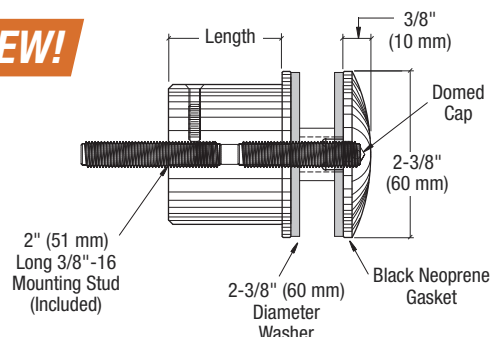
- Brushed or Polished 316 Grade Stainless

CAT. NO.	LENGTH	GRADE	FINISH
RS0B215BS	1" (25 mm)	316	Brushed Stainless
RS0B215PS	1" (25 mm)	316	Polished Stainless
RS0B2135BS	1-3/4" (44 mm)	316	Brushed Stainless
RS0B2135PS	1-3/4" (44 mm)	316	Polished Stainless

Minimum order: 1 each. All Point Supported Standoffs can be combined for quantity pricing.

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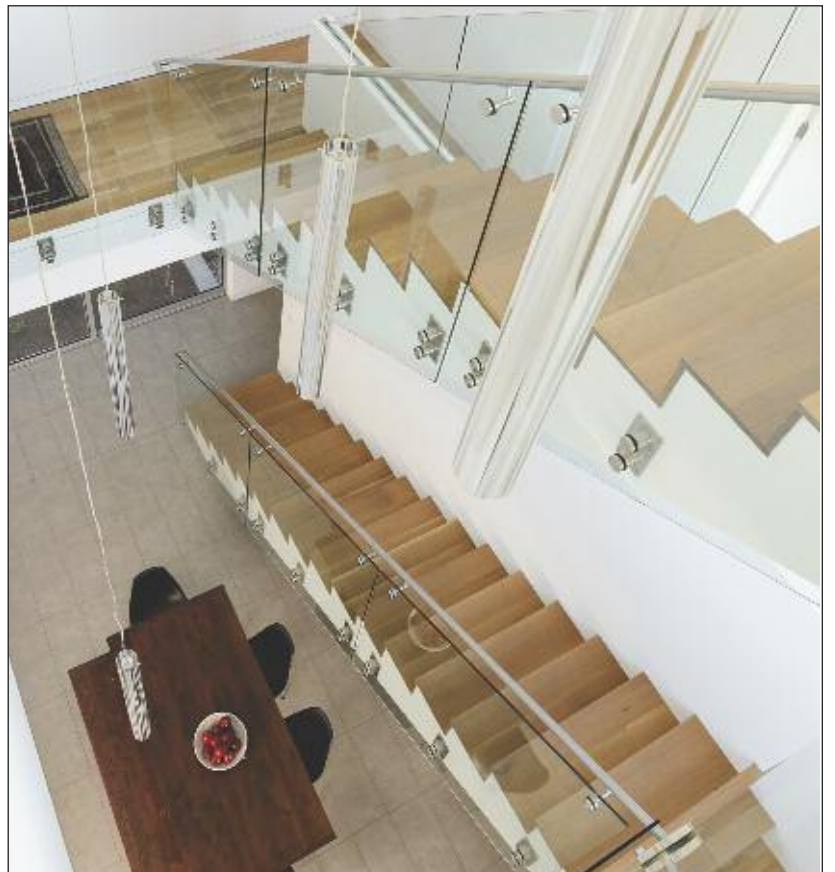or enter the Catalog Number for complete product information

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CRL U.S. ALUMINUM

CRL SRS STANDOFF RAILING SYSTEM

CRL Point Supported Square Standoff Fitting With Caps and Back Plate

NEW!

- For Use With 1/2" and 3/4" (12 and 19 mm) Monolithic Tempered Glass or 9/16" and 27/32" (13.52 and 21.52 mm) Laminated Tempered Glass Using DuPont® SentryGlas® Interlayers

ONLINE ARCHITECTURAL RESOURCES

USE MONOLITHIC TEMPERED GLASS

or

USE LAMINATED TEMPERED GLASS

SPECIFICATIONS:
For use with 1/2" or 3/4" (12 or 19 mm) Monolithic Tempered Glass. Also for use with 9/16" or 27/32" (13.52 or 21.52 mm) Laminated Tempered Glass using DuPont® SentryGlas® Interlayers. (Do not use with raw or annealed glass)
Glass Fabrication: Two 3/4" (19 mm) Diameter Holes Per Fitting.
Spacing: Maximum horizontal spacing between fittings depends on its use and mounting conditions. Full engineering reports are available at **crlaurence.com/engineering**.

CAT. NO.	GRADE	FINISH
SS0B20BS	316	Brushed Stainless
SS0B20PS	316	Polished Stainless

Minimum order: 1 each. All Point Supported Standoffs can be combined for quantity pricing.

Steel Application

CRL Point Supported Standoff Fitting With Flat Caps and Back Plate

- For Use With 1/2" and 3/4" (12 and 19 mm) Monolithic Tempered Glass or 9/16" and 27/32" (13.52 and 21.52 mm) Laminated Tempered Glass Using DuPont® SentryGlas® Interlayers

ONLINE ARCHITECTURAL RESOURCES

USE MONOLITHIC TEMPERED GLASS

or

USE LAMINATED TEMPERED GLASS

SPECIFICATIONS:
For use with 1/2" or 3/4" (12 or 19 mm) Monolithic Tempered Glass. Also for use with 9/16" or 27/32" (13.52 or 21.52 mm) Laminated Tempered Glass using DuPont® SentryGlas® Interlayers. (Do not use with raw or annealed glass)
Glass Fabrication: Two 3/4" (19 mm) Diameter Holes Per Fitting.
Spacing: Maximum horizontal spacing between fittings depends on its use and mounting conditions. Full engineering reports are available at **crlaurence.com/engineering**.

CAT. NO.	GRADE	FINISH
RS0B20BS	316	Brushed Stainless
RS0B20PS	316	Polished Stainless

Minimum order: 1 each. All Point Supported Standoffs can be combined for quantity pricing.

Steel Application

CRL Point Supported Standoff Fitting With Domed Caps and Back Plate

- For Use With 1/2" and 3/4" (12 and 19 mm) Monolithic Tempered Glass or 9/16" and 27/32" (13.52 and 21.52 mm) Laminated Tempered Glass Using DuPont® SentryGlas® Interlayers

ONLINE ARCHITECTURAL RESOURCES

USE MONOLITHIC TEMPERED GLASS

or

USE LAMINATED TEMPERED GLASS

SPECIFICATIONS:
For use with 1/2" or 3/4" (12 or 19 mm) Monolithic Tempered Glass. Also for use with 9/16" or 27/32" (13.52 or 21.52 mm) Laminated Tempered Glass using DuPont® SentryGlas® Interlayers (Do not use with raw or annealed glass)
Glass Fabrication: Two 3/4" (19 mm) Diameter Holes Per Fitting.
Spacing: Maximum horizontal spacing between fittings depends on its use and mounting conditions. Full engineering reports are available at **crlaurence.com/engineering**.

CAT. NO.	GRADE	FINISH
RS0B25BS	316	Brushed Stainless
RS0B25PS	316	Polished Stainless

Minimum order: 1 each. All Point Supported Standoffs can be combined for quantity pricing.

Steel Application

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CRL Adjustable Strap Wrench

- Adjustable
  From 3/4" to 4"
  (19 to 102 mm)

Our Adjustable Strap Wrench is the perfect tool for anyone installing Standoff Bases or polished threaded tubing. The strap is easily adjustable from 3/4" to 4" (19 to 102 mm) diameter using a conveniently located thumb lever in the handle. Minimum order is one each.

CAT. NO. ASW12

CRL Cap Wrench for CRL's Glass Rail Standoff Fittings

- Use for Round Standoffs From 1-1/2" to 2" (38 to 51 mm) in Diameter

This convenient Cap Wrench provides a quick and efficient method of tightening and loosening the Cap Assembly of Round Standoffs from 1-1/2" to 2" (38 to 51 mm) in diameter. Minimum order is one each.

CAT. NO. SSW12

CRL Replacement Gasket Set for RS0B Series Standoff Fittings

MODEL **NEW!**

Each Gasket Set Includes:
- 1 Each Grommet
- 2 Each Black Neoprene Gaskets (Round or Square)

Replacement Gasket sets are designed for use with CRL's Point Supported Standoff Fittings.

1/8" (3 mm)
1/2" (12 mm)
1/8" (3 mm)
Size
Size
I.D. 1/2" (12 mm)
O.D. 3/4" (19 mm)
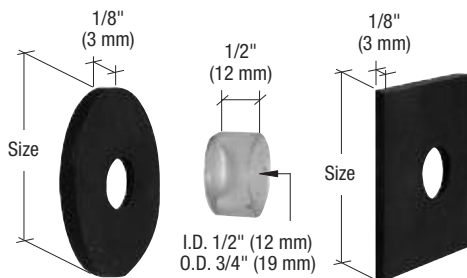
CAT. NO.	SIZE	WORKS WITH
RS0BRG1	2" (51 mm) Diameter	RS0B20, RS0B21, RS0B2134
RS0BRG2	2-3/8" (60 mm) Diameter	RS0B25, RS0B215, RS0B2135
SS0BRG1	2" (51 mm) Square	SS0B20, SS0B2134

Minimum order: 1 each.

CRL Replacement Standoff Caps for Point Supported Standoff Fittings

MODEL **NEW!**

Each Cap Assembly Includes:
- 1 Each Cap
- 1 Each 3/8"-16 Allen Screw
- 1 Each Grommet
- 2 Each Black Neoprene Gaskets

Replacement Caps are designed for use with CRL's Point Supported Standoff Fittings. 316 grade stainless steel.

Flat Cap 2" (51 mm) Diameter
Domed Cap 2-3/8" (60 mm) Diameter
Square Cap 2" (51 mm)

BRUSHED S.S. CAT. NO.	POLISHED S.S. CAT. NO.	DESCRIPTION
RCAP2BS	RCAP2PS	Flat Cap for RS0B20/RS0B2134
RCAP3BS	RCAP3PS	Domed Cap for RS0B25/RS0B2135
SCAP2BS	SCAP2PS	Square Cap for SS0B20/SS0B2134

Minimum order: 1 each. All Standoff Caps can be combined for quantity pricing.

CRL Spacers for Glass Rail Standoffs

NEW!

- For Shimming and Alignment of Our SRS Standoff System
- 316 Grade Stainless Steel
- Available in Two Thicknesses

These Stainless Steel Spacers solve the problem on construction projects where uneven substrate attachment is needed for RS0B Standoffs. Spacers are available in two different thicknesses to allow for minor adjustment, and can be stacked for best fitment. Ten per pack.

2" (51 mm)
1/16" (1.6 mm) and 1/8" (3 mm) Thickness

Spacer
Standoff Sold Separately (see page 269B)

1/16" (1.6 MM) CAT. NO.	1/8" (3 MM) CAT. NO.	FINISH
RS0BS16BS	RS0BS18BS	Brushed Stainless
RS0BS16PS	RS0BS18PS	Polished Stainless

Minimum order: 1 pack.

CRL Stainless Steel Bolt Cover Buttons

NEW!

- Hides Exposed Bolt Heads
- Available in Two Finishes

These Stainless Steel Bolt Cover Buttons are designed to cover up exposed concrete anchors and lag bolts on base plates. Stainless Steel Button screws onto included Threaded Washers to create a finished look. Threaded Cap has 7/16" (11 mm) internal height clearance.
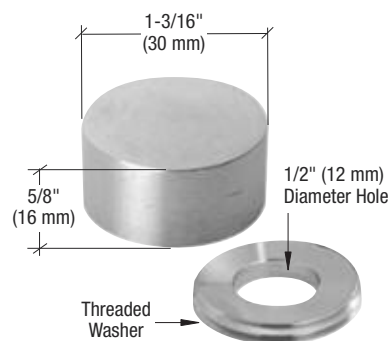
1-3/16" (30 mm)
5/8" (16 mm)
1/2" (12 mm) Diameter Hole
Threaded Washer

CAT. NO.	GRADE	FINISH
BTN1BS	316	Brushed Stainless
BTN1PS	316	Polished Stainless

Minimum order: 1 each. All Bolt Cover Buttons can be combined for quantity pricing.

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Hilti® KWIK HUS-EZ Screw Anchors

Washers Sold
Separately

1/4" x 3" Long

3/8" x 4" Long
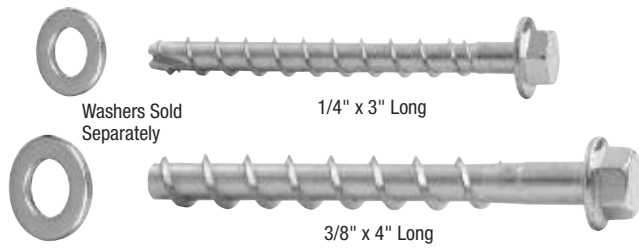
- Heat Treated Carbon Steel
- Great for Railing and Windscreen Applications

CAT. NO.	DESCRIPTION	QTY/BOX
WBA14X3	1/4" x 3" (6 x 76 mm) Screw Anchor	50
WBAW14*	1/4" (6 mm) Washer for WBA14X3	50
WBA38X4	3/8" x 4" (10 x 102 mm) Screw Anchor	50
WBAW38*	3/8" (10 mm) Washer for WBA38X4	50

Minimum order is 50 each. Must be ordered in increments of 50. *Must be used with Wedge-Bolt Anchors to achieve the required attachment strength.

Hilti® KWIK Bolt TZ

MODEL **NEW!**

- Available in 304 Grade Stainless or Carbon Steel

Hilti® Kwik Bolt TZ are heavy-duty expansion bolts designed for high performance in static and dynamic load applications. **NOTE**: Carbon Steel Anchor is recommended for interior installations only.

CAT. NO.	GRADE - APPLICATION	SIZE
CA38X334SS	304 Stainless - Exterior	3/8" x 3-3/4" (95 mm)
CA38X334	Carbon Steel - Interior	3/8" x 3-3/4" (95 mm)

Minimum order: 1 each. Must be ordered in increments of 50. Sizes can be combined for quantity pricing.

CRL S.D.S. Masonry Drills

- ANSI Specifications for Wedge-Bolts
- Work in Regular and Impact Drills
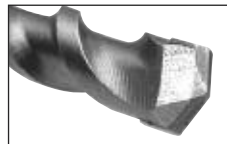
S.D.S. Masonry Drills are made to the ANSI Specifications required for the proper performance of Hilti® KWIK HUS-EZ Screw Anchors. Life expectancy: 100-500 holes, depending on substrate and drill used. They work in both regular and impact drills, and can be used in a variety of masonry materials.

CAT. NO.	DIAMETER	LENGTH
SDSW12	.495" (13 mm)	12" (305 mm)
SDSW38	.389" (10 mm)	12" (305 mm)
SDSW14	.259" (7 mm)	8" (203 mm)

Minimum order: 1 each. Sizes can be combined for quantity pricing.

Hilti® KWIK Bolt 3

- Available in 18-8 Grade Stainless or Carbon Steel

Hilti® Kwik Bolt 3 are expansion anchors used to secure RS0B and SS0B Series Standoffs to concrete.

Countersunk
Head

CAT. NO.	GRADE	SIZE
EBA336	18-8 Stainless	3/8" x 4" (102 mm)
EBA337	Carbon Steel	3/8" x 4" (102 mm)

Minimum order: 1 each. Sizes can be combined for quantity pricing.

CRL Socket Flat Head Cap Screws

- 18-8 Grade Stainless

These Socket Flat Head Cap Screws are used to secure RS0B and SS0B Series Standoffs to a steel substrate.

Countersunk
Head
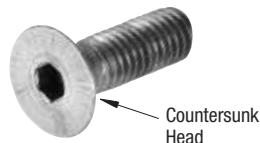
CAT. NO.	GRADE	SIZE
SHCSF3816X1	18-8 Stainless	3/8"-16 x 1" (25 mm)

Minimum order: 10 each. Must be ordered in increments of 10.
Can be combined with other Cap Screws for quantity pricing.

Hilti is a registered trademark of Hilti Aktiengesellschaft Corporation

CRL Socket Head Cap Screws

- 304 Grade Stainless

These Socket Head Cap Screws are used to secure RS0B20 and SS0B Standoffs to a steel substrate with a minimum of 3/8" (10 mm) of thread engagement.

CAT. NO.	GRADE	SIZE
SHCS38X34	304 Stainless	3/8"-16 x 3/4" (19 mm)
SHCS38X112	304 Stainless	3/8"-16 x 1-1/2" (38 mm)

Minimum order: 10 each. Must be ordered in increments of 10.
Can be combined with other Cap Screws for quantity pricing.

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CRL Hanger Bolts

• 304 Grade Stainless

Dual-threaded Hanger Bolts are available in 304 stainless and can be used in wood substrates.
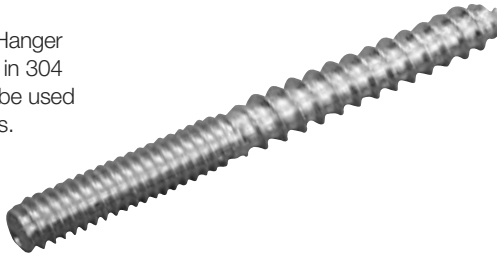
CAT. NO.	GRADE	SIZE
HB38112S	304 Stainless	3/8"-16 x 1-1/2" (38 mm)
HB38212S	304 Stainless	3/8"-16 x 2-1/2" (64 mm)

Minimum order: 1 each. Sizes can be combined for quantity pricing.

CRL Hex and Nylock Hex Nuts

• 304 Grade Stainless

These Hex and Nylock Hex Nuts are used with Allen Screws or Threaded Rod for securing 1-1/2" (38 mm) diameter Standoffs.

Hex Nut

Nylock Hex Nut

CAT. NO.	GRADE	TYPE	SIZE
HN3816S	304 Stainless	Hex Nut	3/8"-16
NLN3816S	304 Stainless	Nylock Hex Nut	3/8"-16

Minimum order: 10 each. Must be ordered in increments of 10. Sizes can be combined for quantity pricing.

CRL Flat and Lock Washers

• 304 Grade Stainless

Flat and Lock Washers are used when attaching Standoffs to panels or substrates.

Flat Washer

Lock Washer

CAT. NO.	GRADE	TYPE	SIZE
FW38S	304 Stainless	Flat Washer	3/8"-16
LW38S	304 Stainless	Lock Washer	3/8"-16

Minimum order: 10 each. Must be ordered in increments of 10. Sizes can be combined for quantity pricing.

CRL Allen Screws

• 304 Grade Stainless

Stainless Steel Allen Screws are available in incremental lengths from 1" to 2" (25 to 51 mm) for RS0B and SS0B Series Standoffs.
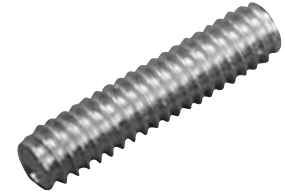
CAT. NO.	GRADE	SIZE
AS381	304 Stainless	3/8"-16 x 1" (25 mm)
AS38114	304 Stainless	3/8"-16 x 1-1/4" (32 mm)
AS38112	304 Stainless	3/8"-16 x 1-1/2" (38 mm)
AS38134	304 Stainless	3/8"-16 x 1-3/4" (44 mm)
AS382	304 Stainless	3/8"-16 x 2" (51 mm)

Minimum order: 10 each. Must be ordered in increments of 10. Sizes can be combined for quantity pricing.

CRL Threaded Rod

• 304 Grade Stainless

Full 36" (914 mm) lengths of stainless Threaded Rod will permit you to cut Rod to length required for secure mounting.

CAT. NO.	GRADE	SIZE
TR3816X36S	304 Stainless	3/8"-16 x 36" (914 mm)

Minimum order: 1 each.

CRL Acorn Nut

• 304 Grade Stainless

Acorn Nuts are commonly used for applications that need a finished top. **NOTE:** Allen Screws or Threaded Rods must be installed to proper length during installation for Acorn nut to fit properly.
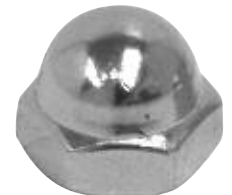
Acorn Nut

CAT. NO.	GRADE	SIZE
ACN3816S	304 Stainless	3/8"-16

Minimum order: 10 each. Must be ordered in increments of 10.

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CRL
US ALUMINUM

CRL Juliet Balcony Glass Railing Kits

NEW!

- Round and Square Profiles Available in 316 Grade Brushed Stainless Steel
- Easy to Install
- New Construction or Retrofit, Commercial and Residential

- Designed for 1/2" (12 mm) Monolithic Tempered Glass or 9/16" (13.52 mm) Laminated Tempered Glass (Not Included)
- No Welding Required, "Quick Fit" Design

- No Holes or Notches Required in Glass

USE MONOLITHIC TEMPERED GLASS or **USE LAMINATED TEMPERED GLASS**

CRL Juliet Balcony Glass Railing Kits are ideal for guard rail applications when no space for an exterior balcony is available, and an inward-swinging French door is installed. Easy to anchor to wood, concrete or steel fascias, these CRL Juliet Balcony Glass Railing Kits are a simple solution for the need of fall protection. They also add the benefit of allowing more light and air into a room without obstructing the view. Kits are available in both round and square profiles, and are made of durable 316 grade brushed stainless steel. A minimum 42" (1067 mm) railing height is recommended, but check your local building codes.

CRL Round Profile Juliet Balcony Railing Kits

NEW!

KITS INCLUDE:

(2) Factory Cut GRRF20BSC Cap Rails (1 Top and 1 Bottom)
(2) Factory Cut GRRF2013PV Glazing Gaskets
(2) Upper Wall Mount Fittings (1 Left and 1 Right)
(2) Lower Wall Mount Fittings With Weep Holes (1 Left and 1 Right)
(1) Center Support Fitting (Supplied With 96" [2438 mm] Kit Only)
(1) 7649 Loctite Primer and 32629 Loctite Cement
NOTE: Anchor Bolts, and Glass Not Included

CAT. NO.	DESCRIPTION	FINISH
JLR60BS	60" (1524 mm) Complete Juliet Balcony Kit	Brushed Stainless
JLR96BS	96" (2438 mm) Complete Juliet Balcony Kit	Brushed Stainless
JL1ULBS	Replacement Upper Left Fitting	Brushed Stainless
JL1URBS	Replacement Upper Right Fitting	Brushed Stainless
JL1LLBS	Replacement Lower Left Fitting	Brushed Stainless
JL1LRBS	Replacement Lower Right Fitting	Brushed Stainless
JL1LCBS	Replacement Center Support Fitting	Brushed Stainless
JL1CAPBS	Replacement Round Cap	Brushed Stainless

Minimum order: 1 each.

Upper Left Wall Mount Fitting — Top Rail — Upper Right Wall Mount Fitting — Lower Left Wall Mount Fitting With Weep Holes — Glazing Gaskets — Bottom Rail — Center Support Fitting (Only Included with 96" [2438 mm] Kit) — Round Cap — Lower Right Wall Mount Fitting With Weep Holes
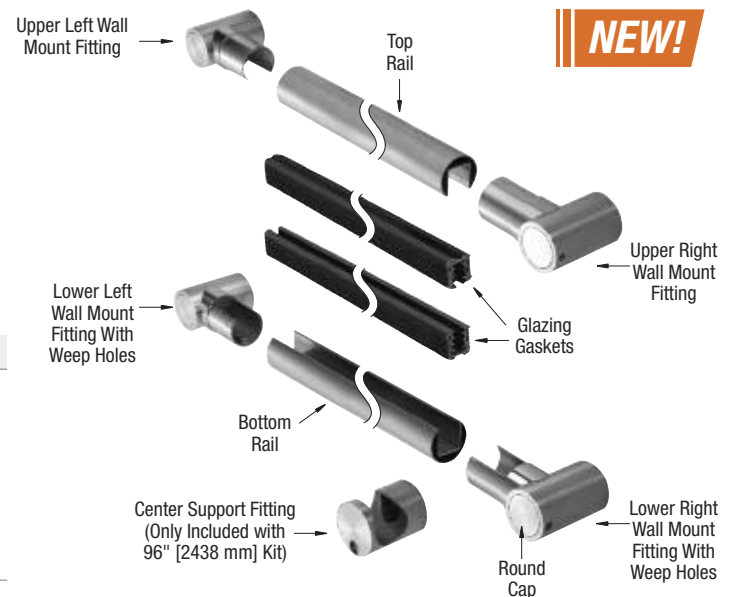
CRL Square Profile Juliet Balcony Railing Kits

NEW!

KITS INCLUDE:

(2) Factory Cut SRF15BSC Cap Rails (1 Top and 1 Bottom)
(2) Factory Cut SRF1513PV Glazing Gaskets
(2) Upper Wall Mount Fittings (1 Left and 1 Right)
(2) Lower Wall Mount Fittings With Weep Holes (1 Left and 1 Right)
(1) Center Support Fitting (Supplied With 96" [2438 mm] Kit Only)
(1) 7649 Loctite Primer and 32629 Loctite Cement
NOTE: Anchor Bolts, and Glass Not Included

CAT. NO.	DESCRIPTION	FINISH
JLS60BS	60" (1524 mm) Complete Juliet Balcony Kit	Brushed Stainless
JLS96BS	96" (2438 mm) Complete Juliet Balcony Kit	Brushed Stainless
JL2ULBS	Replacement Upper Left Fitting	Brushed Stainless
JL2URBS	Replacement Upper Right Fitting	Brushed Stainless
JL2LLBS	Replacement Lower Left Fitting	Brushed Stainless
JL2LRBS	Replacement Lower Right Fitting	Brushed Stainless
JL2LCBS	Replacement Center Support Fitting	Brushed Stainless
JL2CAPBS	Replacement Square Cap	Brushed Stainless

Minimum order: 1 each.

Upper Left Wall Mount Fitting — Top Rail — Upper Right Wall Mount Fitting — Lower Left Wall Mount Fitting With Weep Holes — Glazing Gaskets — Bottom Rail — Center Support Fitting (Only Included with 96" [2438 mm] Kit) — Square Cap — Lower Right Wall Mount Fitting With Weep Holes

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Architectural Post Railing Systems

Cable Systems and Tools

CRS Component Railing System

Fabricated Corners

Glass Clamps for Stairs and Walkway Railings

Glass Fittings and Clamps

Glass Railing Spider Fittings

Post Mount Fittings

Post Tubing and Components

P-Series Individual and Blank Posts **NEW!**

P-Series Railing Post Kits MODEL **NEW!**

"Rail Glass" **NEW!**

Schedule 40 Pipe Rail Tubing

Stainless Steel Crossbar Infill System

Stainless Steel Post Railing Kits

Standoff Connectors

WRS Welded Post Railing Systems

Z-Series Glass Clamps

ZP-Series Glass Clamps **NEW!**

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These products and more can be found in this catalog section. On the top and bottom of each page are direct search instructions for viewing them on our web site. You can also enter the catalog number into the Search Box for a direct link to the product and **More Choices** in that category. To view **More Choices**, simply click on the red and white icon to be taken to a larger selection.

MORE CHOICES crlaurence.com

CRL P-Series Post Railing Systems

PAGES 277B-305B

- Stainless Steel Post Railing Systems
- Rail Glass
- Round and Square Glass Clamp Post Systems
- Glass Fittings and Clamps for Post Railings
- Tubing for Post Railing Systems
- Fascia Mount Brackets

   CRL Stainless Steel P-Series Railing Posts are designed for interior or exterior hand rail and guard rail applications. Our popular P7 Series Post offers a complete "off-the-shelf" stock kit for jobs that need to be turned in a hurry. Our assortment of eight distinct P-Post styles allows you to customize your own post system, utilizing a choice of the various posts and fitting options. Blank Posts are also available for custom fabrication with a fixed or swivel saddle. Brushed and polished stainless steel finishes are standard, with powder coated finishes available upon special order.

CRL Glass Clamps and Fittings

PAGES 306B-322B

- Z-Series Glass Clamps
- Glass Clamps for Stair and Walkway Railings
- Spider Fittings for Glass Railings
- Stainless Steel Crossbar Infill System

   Our selection of Z-Series Glass Railing Clamps is so diverse that whether a radius base clamp for round tubing is required, or a flat base clamp for mounting to a flat post is needed, CRL's selection is sure to have what you need. Square and rounded shaped clamps allow the installer to match surrounding architecture. Our offering of Mini Z-Series Glass Clamps is ideal for assembling small glass barriers. The unique appearance of Spider Fittings creates the appearance and functionality to complete glass railings that are sure to be noticed.

CRL WRS Welded Post Railing System

PAGES 323B-335B

- Systems for Use With Glass Infill Panels
- Pipe Tubing for Welded Post Railing System
- Systems for Use With Glass, Cable, and Stainless Crossbar Infill Options
- Stainless Steel Cables, Cable Kits, Tensioning Receivers, and Fittings

   The WRS Welded Post Railing System for use with glass infill panels is available in 1-1/2" Schedule 40 Pipe and 2" (51 mm) Square Profile Pipe. The glass is secured using a choice of Z-Series Glass Clamps, Custom Standoffs, or Spider Fittings. Various mounting options are available depending upon your job site conditions. All WRS Post Rails are supplied with Internal Splice Connectors and accessories required for completing the system.

CRL CRS Component Railing Systems

PAGES 336B-348B

- Stainless Steel System for Use With Glass Infill Panels
- Premium Cap Rails
- Post Rail Tubing and Bottom Rails
- Cap Rail Return (A.D.A. Compliant)
- Adapters for Top and Bottom Rails

   The CRS Component Railing System allows designing and building of custom post railings utilizing an assortment of stock parts. The CRS System is a step above an aluminum system, but does not entail the expense of custom welded stainless steel systems. Combining the strength of 1-1/2" Schedule 40 Stainless Steel Posts, Adapter Fittings, and our popular Premium Cap Rails, creating an easily installed railing system is simple.

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CRL Stainless Steel P-Series Railing Posts

CRL U.S. ALUMINUM MANUFACTURED IN THE USA

MODELS **NEW!**

USE MONOLITHIC TEMPERED GLASS   or   USE LAMINATED TEMPERED GLASS

A Selection of High Quality Stainless Steel Post Kits and Components

- Complete "Off-The-Shelf" Stock Kits Including Your Choice of Glass Fittings (P7 Series Posts Only)
- Customize Your Own Post Systems From a Choice of Glass Fittings and Components (All P-Series Posts)
- New Blank Posts Available for P1 and P7 Series
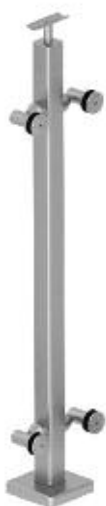
P1 Series   **P2 Series**   **P3 Series**   **P4 Series**   **P5 Series**   **P6 Series**   **P7 Series**   **P8 Series**

- Railing Posts Designed for Interior or Exterior Hand Rail and Guard Rail Applications
- Designed and Engineered to Meet or Exceed Building Codes
- For Use With 1/2" to 27/32" (12 to 21.52 mm) Thick Tempered Glass
- Two Standard Stainless Finishes, With Custom Powder Paint Finishes Also Available
- Standard 42" (1067 mm) Height, With Custom Heights and Styles Available on Special Order

ONLINE *INSTALLATION RESOURCES*

C.R. Laurence manufactures a comprehensive selection of P-Series Railing Posts that combine the durability of stainless steel components with innovative designs and engineering. This ensures long-term structural integrity and enhances project aesthetics. Our P-Series Posts offer a choice of eight distinctive designs for both commercial and residential applications. All are designed and engineered to meet or exceed most local building codes. Posts are fabricated from stainless steel. The standard height is 42" (1067 mm), with custom heights available to meet your exact requirements. Standard finishes are brushed and polished stainless steel, with custom powder paint finishes available on special order. For the top rail you can select either 1-1/4" or 1-1/2" (32 or 38 mm) Schedule 40 Hand Rail Tubing (see page 301B). **NOTE:** The tempered or laminated tempered glass is sold separately, and must be fabricated with pre-drilled holes to be fastened to the Posts. See page 289B for CRL "Rail Glass" information. Please contact CRL Railing Technical Sales for assistance in planning your Post Railing project.

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CRL P-Series Post Railing Systems

MODEL **NEW!**

USE MONOLITHIC TEMPERED GLASS   or   USE LAMINATED TEMPERED GLASS

A Huge Inventory of Parts Allows Us to Offer a Variety of Railing Posts

- CRL's Vast Selection of Component Parts, Along With Our In-House Manufacturing, Make it Possible to Provide You With Four Post Hardware Programs

1. "QUICK PICK" STOCK OF P7 POST KITS, P7 AND P1 INDIVIDUAL POSTS

Ready for immediate shipment from our Los Angeles, California Service Center or, if you prefer, we can forward them to your local CRL Service Center on our weekly transfer truck.

2. "QUICK SHIP" RAILING POSTS

Due to our prefabricated component parts we are able to ship many of our most popular Railing Posts within a three to five working day lead time from Los Angeles, California. Again, if you prefer we can have our weekly transfer truck bring them to your local CRL Service Center.

3. CUSTOM RAILING POSTS

We understand that certain jobs require custom hardware. With over 1,000,000 square feet of manufacturing capacity we are able to engineer, fabricate, finish, package, and ship Custom Railing Posts in 10 to 15 working days. Lead times are based on shipping from Los Angeles, California. You may request your order to be sent on our weekly transfer truck to your local CRL Service Center.

4. BLANK "MAKE YOUR OWN" RAILING POSTS

CRL gives you the ability to fabricate Railing Posts right in your own shop. Simply purchase all the necessary stock component parts available for immediate shipment from our Los Angeles, California Service Center, or request that they be sent on our weekly transfer truck to your local CRL Service Center. It's that easy.

NOTE: All quoted lead times are based on the date an approved purchase order is put into fabrication by C.R. Laurence Co., Inc.

Swivel Saddle Options (see page 300B)

Fixed Saddle Options (see page 300B)

QUICK PICK RED-E Ship

Adjustable Standoff Saddle Post

55" (1416 mm) Tall Round or Square Blank Posts Available (see pages 281B-282B)

Blank Post to be Drilled for Glass Fittings by Customer

42" (1067 mm) Tall Round or Square Post Configurations (see pages 280B-288B)

Choose From Three Popular Glass Fitting Options (see below)

Blank Posts for Ramps and Stairs

Factory Welded Base Flange

Stock Post Kits for Level Areas

Fascia Mount Brackets (see pages 297B-298B)

Surface Mount Stanchions for Special Conditions (see page 295B)

Glass Fitting Options
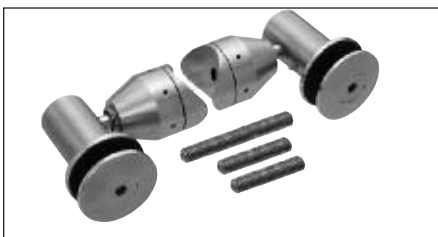
RB50 Glass Fittings (see page 293B)
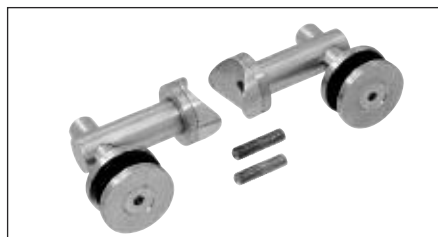
RB51F Glass Fittings (see page 292B)

Flat Base and Radius Base ZP-Clamps (see page 294B)

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How to Order **"Quick Pick"** P7 and P1 Series Posts

QUICK PICK
RED-E Ship

Step 1: Select Post Style (Round or Square)

P7 Series
1.9" (48 mm) Round Post
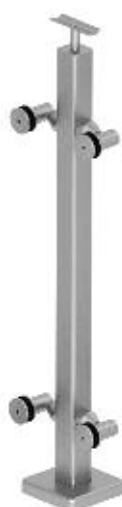
P1 Series
2" (51 mm) Square Post

Step 2: Select Post Type

Standard
42" (1067 mm)
(see pages 281B-288B)
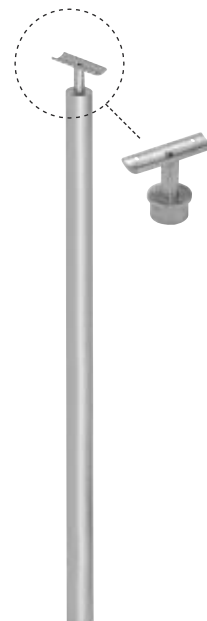
Vertical Adjustment
Fixed Top Blank Post
(see pages 281B-282B)

Vertical Adjustment
Swivel Top Blank Post
(see pages 281B-282B)

Step 3: Select Glass Fittings

RB50 Glass Fittings
(see page 293B)
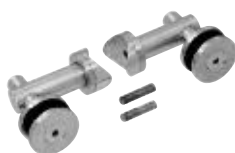
RB51F Glass Fittings
(see page 292B)

Flat Base and Radius Base
ZP-Series Clamps
(see page 294B)
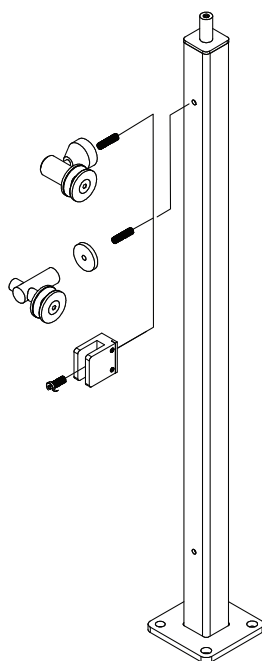
Step 4: Select Mounting Options

Core Mount Embed
Option for Blank Post
(No Base Flange)

Welded Base
Flange
(see page 296B)

Fascia Mount Brackets for
Round or Square Models
(see pages 279B-298B)

Surface Mount Stanchions for
Round or Square Models
(see page 295B)

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CRL P7 Series Railing Post Kits and Railing Posts

- Our Most Popular P-Series Post Available In Both Complete Stock Kits as Well as Individual Posts
- Glass Attachment Fittings Included in Complete Stock Kits (See Next Page)
- Individual Posts Available With Choice of Glass Fittings Sold Separately
- For Use With 1/2" (12 mm) to 27/32" (21.52 mm) Thick Tempered Glass (See Page 289B)
- Standard Posts Include an Adjustable Height Fixed Vertical Saddle
- New Blank Post Available for Custom Fabrication With Fixed or Swivel Top Saddle
- Standard Post Height is 42" (1067 mm), With Custom Heights Available
- Two Standard Stainless Finishes, With Custom Powder Paint Finishes Also Available

CRL P7 Series Railing Posts are manufactured from Schedule 40 1.9" (48 mm) diameter Stainless Steel Tubing, and are designed for guard rail or hand rail applications. Saddles support 1-1/4" or 1-1/2" (32 or 38 mm) Schedule 40 Hand Rail Tubing. Individual Posts are supplied complete with a Base Plate, Base Flange Cover, Adjustable Height Top Saddle, and come pre-drilled and tapped with 3/8"-16 holes. Complete Stock Kits also include Glass Attachment Fittings. Blank Posts are supplied with Adjustable Height Top Saddle only. See page 303B for more information on our P-Post Top Rail Installation Tool Kit. For screws to attach the Top Rail to the Saddle specify Cat. No. PRS1032TC (see page 303B).

MODEL **NEW!**

USE MONOLITHIC TEMPERED GLASS

or

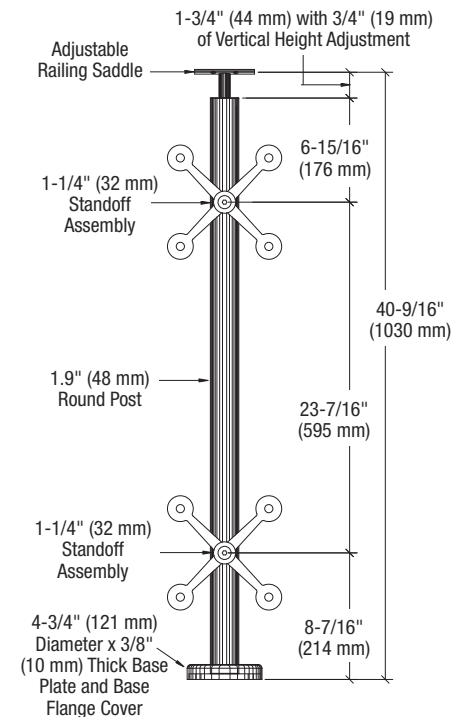**USE LAMINATED TEMPERED GLASS**

QUICK PICK
RED-E Ship

All P7 Series Posts Have Up to 3/4" (19 mm) of Vertical Adjustment. Simply Turn the Top Saddle Support Counter-Clockwise to Raise. (Patent Pending)

42" (1067 mm) Post Kit

1-3/4"(44 mm) With 3/4" (19 mm) of Vertical Height Adjustment

4" (102 mm)

Railing Saddle

Glass Fittings Sold Separately Unless Ordering Kits (see pages 292B-293B)

1.9" (48 mm) Round Post

28-13/16" (732 mm)

40-9/16" (1030 mm)

Glass Fittings Sold Separately unless ordering Kits (see pages 292B-293B)

38-13/16" (986 mm)

6" (152 mm)

4-3/4" (121 mm) Diameter x 3/8" (9.5 mm) Thick Base Flange With Cover

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CRL P7 Series Railing Post Kits and Railing Posts

MODEL **NEW!**

ONLINE *INSTALLATION* R E S O U R C E S

USE MONOLITHIC TEMPERED GLASS or USE LAMINATED TEMPERED GLASS

Blank Posts are Available With An Adjustable Height Fixed or Swivel Saddle for Ramp or Stair Areas. (Patent Pending)

56" (1422 mm)

40-9/16" (1030 mm)

All Glass Fittings Sold Separately Unless Ordering Kits

EACH P7 SERIES RAILING POST INCLUDES:
(1) Welded-On Base Plate
(1) Base Flange Cover
(1) Adjustable Height Top Saddle
  NOTE: Only the Blank Posts are available with either a Fixed or Swivel Top Saddle.

IMPORTANT: RB50 and RB51F Glass Fittings are Sold Separately With Individual Posts, but Included in Post Kits (see below). ZP712 Clamps are Always Sold Separately (see pages 292B-294B).

| Blank Post | End Post Kit | 180 Degree Center Post Kit | 135 Degree Angle Post Kit | 90 Degree Corner Post Kit | RB50 Glass Fitting | RB51F Glass Fitting | ZP712 Glass Clamp |

QUICK PICK
RED-E Ship

Complete Kits With Glass Fittings

END POST KIT

42" HEIGHT (RB50F FITTINGS) CAT. NO.	42" HEIGHT (RB51F FITTINGS) CAT. NO.	GRADE	FINISH
P7EK50BS	P7EK51BS	316	Brushed Stainless
P7EK50PS	P7EK51PS	316	Polished Stainless

Minimum order: 1 each. All Post Railing Kits can be combined for quantity pricing.

180 DEGREE CENTER POST KIT

42" HEIGHT (RB50F FITTINGS) CAT. NO.	42" HEIGHT (RB51F FITTINGS) CAT. NO.	GRADE	FINISH
P7CK50BS	P7CK51BS	316	Brushed Stainless
P7CK50PS	P7CK51PS	316	Polished Stainless

Minimum order: 1 each. All Post Railing Kits can be combined for quantity pricing.

135 DEGREE ANGLE POST KIT

42" HEIGHT (RB50F FITTINGS) CAT. NO.	42" HEIGHT (RB51F FITTINGS) CAT. NO.	GRADE	FINISH
P7AK50BS	P7AK51BS	316	Brushed Stainless
P7AK50PS	P7AK51PS	316	Polished Stainless

Minimum order: 1 each. All Post Railing Kits can be combined for quantity pricing.

90 DEGREE CORNER POST KIT

42" HEIGHT (RB50F FITTINGS) CAT. NO.	42" HEIGHT (RB51F FITTINGS) CAT. NO.	GRADE	FINISH
P7LK50BS	P7LK51BS	316	Brushed Stainless
P7LK50PS	P7LK51PS	316	Polished Stainless

Minimum order: 1 each. All Post Railing Kits can be combined for quantity pricing.

Posts Without Glass Fittings

BLANK POST

56" HEIGHT CAT. NO.	TOP SADDLE	GRADE	FINISH
P7BPFBS	Fixed	316	Brushed Stainless
P7BPFPS	Fixed	316	Polished Stainless
P7BPSBS	Swivel	316	Brushed Stainless
P7BPSPS	Swivel	316	Polished Stainless

Minimum order: 1 each. All Railing Posts can be combined for quantity pricing.

END POST

42" HEIGHT CAT. NO.	GRADE	FINISH
P7F42EBS	316	Brushed Stainless
P7F42EPS	316	Polished Stainless

Minimum order: 1 each. All Railing Posts can be combined for quantity pricing.

180 DEGREE CENTER POST

42" HEIGHT CAT. NO.	GRADE	FINISH
P7F42CBS	316	Brushed Stainless
P7F42CPS	316	Polished Stainless

Minimum order: 1 each. All Railing Posts can be combined for quantity pricing.

135 DEGREE ANGLE POST

42" HEIGHT CAT. NO.	GRADE	FINISH
P7F42ABS	316	Brushed Stainless
P7F42APS	316	Polished Stainless

Minimum order: 1 each. All Railing Posts can be combined for quantity pricing.

90 DEGREE CORNER POST

42" HEIGHT CAT. NO.	GRADE	FINISH
P7F42LBS	316	Brushed Stainless
P7F42LPS	316	Polished Stainless

Minimum order: 1 each. All Railing Posts can be combined for quantity pricing.

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CRL US ALUMINUM

CRL P1 Series Railing Posts
(Glass Fittings Sold Separately)

MODEL **NEW!**

- For Use With 1/2" to 27/32" (12 to 21.52 mm) Thick Tempered Glass (See Page 289B)
- Three Styles of Glass Attachment Fittings Sold Separately (See Pages 292B-294B)
- Meet or Exceed Code Standards
- Top Saddle Supports 1-1/4" (32 mm) or 1-1/2" (38 mm) Diameter Schedule 40 Hand Rail Tubing (See Page 300B)
- Standard Post Height is 42" (1067 mm), With Custom Heights Available
- New Blank Post Available for Custom Fabrication With Fixed or Swivel Top Saddle
- Two Standard Stainless Finishes, With Custom Powder Paint Finishes Also Available

USE MONOLITHIC TEMPERED GLASS

or

USE LAMINATED TEMPERED GLASS

QUICK PICK
RED-E Ship

CRL P1 Series Railing Posts are designed for commercial or residential installations that meet or exceed guard rail and hand rail code standards. These P1 Series Railing Posts are manufactured from 2" (51 mm) square 316 Grade Stainless Steel Tubing with 1/8" (3.2 mm) wall thickness. Posts are supplied complete with a 5" x 5" (127 x 127 mm) Base Plate, Base Flange Cover, Adjustable Height Top Saddle, and are prepped with 3/8"-16 holes. Blank Posts are supplied with Adjustable Height Top Saddle only. For screws to attach the Top Rail to the Saddle specify Cat. No. PRS1032TC (see page 303B).

ONLINE INSTALLATION RESOURCES

EACH P1 SERIES RAILING POST INCLUDES:
(1) Welded-On Base Plate
(1) Base Flange Cover
(1) Adjustable Height Top Saddle
  NOTE: Blank Post Supplied Only With Adjustable Height Top Saddle

IMPORTANT: RB50, RB51F Glass Fittings or ZP912 Glass Clamps are Sold Separately (see pages 292B-294B).

180 Degree Center Post

(Patent Pending)

1-3/4"(44 mm) With 3/4" (19 mm) of Vertical Height Adjustment

4" (102 mm)

Fixed Vertical Adjustable Railing Standoff Saddle

40-9/16" (1030 mm)

2" x 2" (51 x 51 mm) Square Post

28-13/16" (732 mm)

38-13/16" (986 mm)

Supplied With Base Flange Cover

6" (152 mm)

5" x 5" (127 x 127 mm) Base Plate 3/8" (9.5 mm) Thick

Blank Posts are Available With an Adjustable Height Fixed or Swivel Saddle for Ramp or Stair Areas. (Patent Pending)

56" (1422 mm)

40-9/16" (1030 mm)

All Glass Fittings or ZP-Series Glass Clamps Sold Separately (see pages 292B-294B)

Blank Post

End Post

180 Degree Center Post

90 Degree Corner Post

RB50 Glass Fitting

RB51F Glass Fitting

ZP912 Glass Clamp

BLANK POST

56" HEIGHT

CAT. NO.	TOP SADDLE	GRADE	FINISH
P1BPFBS	Fixed	316	Brushed Stainless
P1BPFPS	Fixed	316	Polished Stainless
P1BPSBS	Swivel	316	Brushed Stainless
P1BPSPS	Swivel	316	Polished Stainless

Minimum order: 1 each. All Railing Posts can be combined for quantity pricing.

END POST

42" HEIGHT

CAT. NO.	GRADE	FINISH
P142EBS	316	Brushed Stainless
P142EPS	316	Polished Stainless

Minimum order: 1 each. All Railing Posts can be combined for quantity pricing.

180 DEGREE CENTER POST

42" HEIGHT

CAT. NO.	GRADE	FINISH
P142CBS	316	Brushed Stainless
P142CPS	316	Polished Stainless

Minimum order: 1 each. All Railing Posts can be combined for quantity pricing.

90 DEGREE CORNER POST

42" HEIGHT

CAT. NO.	GRADE	FINISH
P142LBS	316	Brushed Stainless
P142LPS	316	Polished Stainless

Minimum order: 1 each. All Railing Posts can be combined for quantity pricing.

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CRL US ALUMINUM

CRL P2 Series Railing Posts
(Glass Fittings Sold Separately)

- For Use With 1/2" to 27/32" (12 to 21.52 mm) Thick Tempered Glass (See Page 289B)
- Meet or Exceed Code Standards
- Support 1-1/4" (32 mm) Schedule 40 1.66" O.D. Horizontal Hand Rail Tubing (See Page 301B)
- Standard Post Height is 42" (1067 mm), With Custom Heights Available
- Two Standard Stainless Finishes, With Custom Powder Paint Finishes Also Available

CRL P2 Series Railing Posts are designed for commercial or residential applications that meet or exceed guard rail code standards. Our P2 Series Posts are manufactured from Stainless Steel Flat Bars, designed to support 1-1/4" (32 mm) Schedule 40 1.66" O.D. Horizontal Tubing (see page 301B). Posts are supplied with a Welded-on Base Plate, and are prepped with 3/8"-16 holes for our Glass Fittings or ZP-Series Glass Clamps, which are sold separately (see pages 292B-294B).

CRL U.S. ALUMINUM
MANUFACTURED IN THE USA

ONLINE *INSTALLATION* **RESOURCES**

USE MONOLITHIC TEMPERED GLASS   or   USE LAMINATED TEMPERED GLASS

All Glass Fittings or ZP-Series Glass Clamps Sold Separately (see pages 292B-294B)

EACH P2 SERIES RAILING POST INCLUDES:

(1) Welded-On Base Plate

IMPORTANT: RB50, RB51F Glass Fittings or ZP912 Glass Clamps are Sold Separately (see pages 292B-294B).

180 Degree Center Post

Hole for 1-1/4" (32 mm) SCH. 40 1.66" O.D. Hand Rail (see page 301B)

1-11/16" (43 mm)
4" (102 mm)
42-1/4" (1073 mm)
40-9/16" (1030 mm)
26-9/16" (675 mm)

Flat Bar S/S 2-3/8" x 3/8" (60 x 10 mm)

36-9/16" (929 mm)

6" (152 mm)

5" x 5" (127 x 127 mm) Base Plate 3/8" (10 mm) Thick

2-3/8" (60 mm)

Base Flange Cover is Available on Special Order

RB50 Glass Fitting

ZP912 Glass Clamp

RB51F Glass Fitting

180 Degree Center Post

End Post (Right Hand Shown)
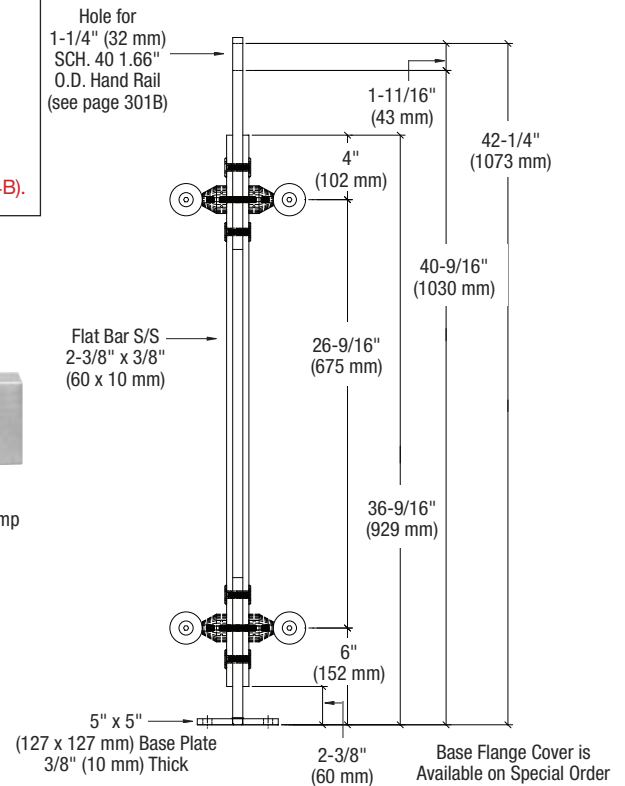
LEFT END POST

CAT. NO.	GRADE	FINISH
P242LEBS	304	Brushed Stainless
P242LEPS	304	Polished Stainless

Minimum order: 1 each. All Railing Posts can be combined for quantity pricing.

RIGHT END POST

CAT. NO.	GRADE	FINISH
P242REBS	304	Brushed Stainless
P242REPS	304	Polished Stainless

Minimum order: 1 each. All Railing Posts can be combined for quantity pricing.

180 DEGREE CENTER POST

CAT. NO.	GRADE	FINISH
P242CBS	304	Brushed Stainless
P242CPS	304	Polished Stainless

Minimum order: 1 each. All Railing Posts can be combined for quantity pricing.

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283B

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FREE Fax: (800) 262-3299
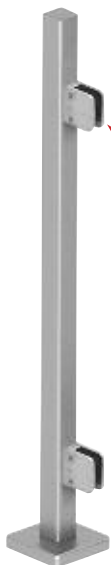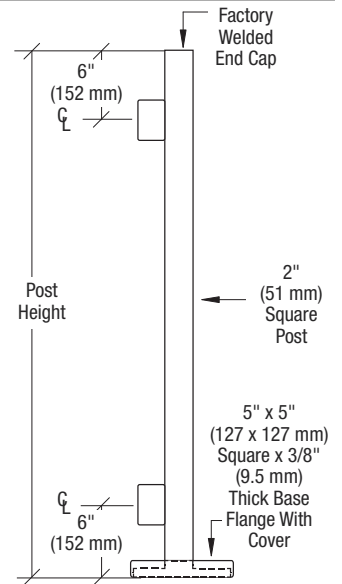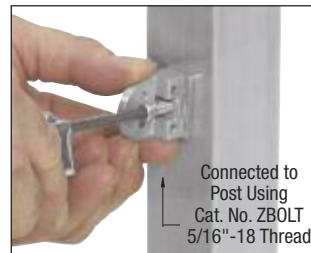From Anywhere in the U.S. or Canada

CRL U.S. ALUMINUM

CRL P3 Series Railing Posts
(Glass Fittings Sold Separately)

- For Use With 1/2" to 27/32" (12 to 21.52 mm) Thick Tempered Glass (See Page 289B)
- Meet or Exceed Code Standards
- Standard Post Height is 42" (1067 mm), With Custom Heights Available
- Two Standard Stainless Steel Finishes, With Custom Powder Painted Finishes Also Available

CRL P3 Series Railing Posts are designed for commercial or residential installations that meet or exceed guard rail and hand rail code standards. The P3 Posts are manufactured from 3/4" x 2" (19 x 51 mm) stainless steel flat bars. Posts are supplied complete with a 5" x 5" (127 x 127 mm) Welded-on Base Plate and Base Flange Cover, and are prepped with 3/8"-16 holes for our Hand Rail Brackets (see page 364B), Glass Fittings, or ZP-Series Glass Clamps (see pages 292B-294B), all sold separately.

For screws to attach the Top Rail to the Saddle specify Cat. No. PRS1032TC. These 10-32 x 3/4" stainless steel screws come 50 per pack. Minimum order is one pack.

US ALUMINUM®
MANUFACTURED IN THE USA

USE MONOLITHIC TEMPERED GLASS   or   USE LAMINATED TEMPERED GLASS

ONLINE *INSTALLATION RESOURCES*

EACH P3 SERIES RAILING POST INCLUDES:
(1) Welded-On Base Plate
(1) Base Flange Cover

IMPORTANT: RB50, RB51F Glass Fittings, ZP912 Glass Clamps, and Hand Rail Brackets are Sold Separately (see pages 292B-294B and 364B).

All Glass Fittings, ZP-Series Glass Clamps, and Hand Rail Brackets are Sold Separately (see pages 292B-294B and 364B)

End Post (Left Hand Shown)

180 Degree Center Post

RB50 Glass Fitting

ZP912 Glass Clamps

RB51F Glass Fitting

Hand Rail Bracket

180 Degree Center Post

4-5/16" (109 mm)
2-1/8" (54 mm)
8-3/16" (208 mm)
40-7/8" (1038 mm)
28-13/16" (732 mm)
3/4" x 2" (19 x 51 mm) S/S Flat Bar
6" (152 mm)
5" x 5" (127 x 127 mm) Base Plate 3/8" (10 mm) Thick Supplied with Base Flange Cover
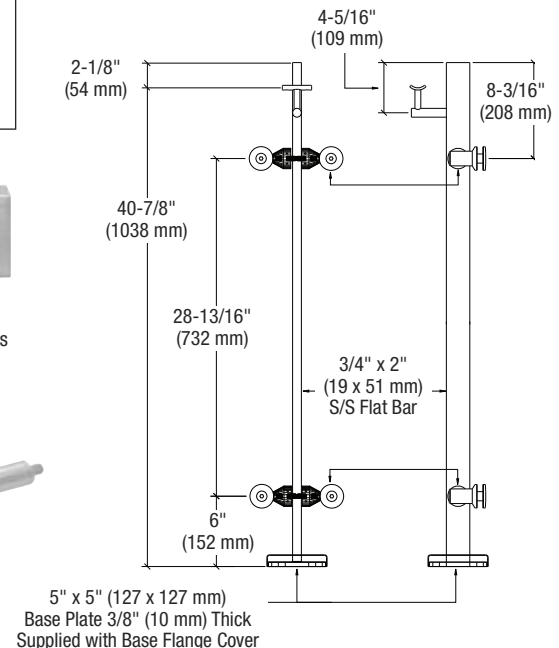
LEFT END POST

CAT. NO.	GRADE	FINISH
P342LEBS	304	Brushed Stainless
P342LEPS	304	Polished Stainless

Minimum order: 1 each. All Railing Posts can be combined for quantity pricing.

RIGHT END POST

CAT. NO.	GRADE	FINISH
P342REBS	304	Brushed Stainless
P342REPS	304	Polished Stainless

Minimum order: 1 each. All Railing Posts can be combined for quantity pricing.

180 DEGREE CENTER POST

CAT. NO.	GRADE	FINISH
P342CBS	304	Brushed Stainless
P342CPS	304	Polished Stainless

Minimum order: 1 each. All Railing Posts can be combined for quantity pricing.

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284B

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FREE Fax: (800) 262-3299
From Anywhere in the U.S. or Canada

CRL US ALUMINUM®

CRL P4 Series Railing Posts
(Glass Fittings Sold Separately)

- For Use With 1/2" (12 mm) Thick Tempered Glass (See Page 289B)
- Meet or Exceed Code Standards
- Standard Post Height is 42" (1067 mm), With Custom Heights Available
- Two Standard Stainless Finishes, With Custom Powder Paint Finishes Also Available

CRL US ALUMINUM
MANUFACTURED IN THE USA

CRL P4 Series Railing Posts are designed for commercial or residential applications that meet or exceed guard rail and hand rail code standards. These P4 Series Posts are manufactured from stainless steel material designed to support 1-1/4" (32 mm) or 1-1/2" (38 mm) diameter Schedule 40 Horizontal Tubing (see page 301B). P4 Series Posts include the Adjustable Railing Saddle, Welded-on Base Plate, and Adjustable Swivel Brackets. Glass Fittings are sold separately (see page 316B).

For screws to attach the Top Rail to the Saddle specify Cat. No. PRS1032TC. These 10-32 x 3/4" stainless steel screws come 50 per pack. Minimum order is one pack.

USE MONOLITHIC TEMPERED GLASS or **USE LAMINATED TEMPERED GLASS**

ONLINE **INSTALLATION**
RESOURCES

All Glass Fittings Sold Separately (see page 316B)

All P4 Series Posts Have Up to 3/4" (19 mm) of Vertical Adjustment. Simply Turn the Top Saddle Support Counter-Clockwise to Raise. (Patent Pending)

EACH P4 SERIES RAILING POST INCLUDES:
(1) Adjustable Railing Saddle With Swivel
(2) Adjustable Swivel Brackets (Without Glass Fittings)
(1) Welded-On Base Plate

IMPORTANT: RRF10 Glass Fittings are Sold Separately (see page 316B).

RRF10 Rigid Head Glass Fitting (Surface Mount Shown)

RRF10 Rigid Head Glass Fitting (Flush Mount Shown)

End Post

180 Degree Center Post

180 Degree Center Post

Up to 3/4" (19 mm) Vertical Adjustment Railing Saddle With Swivel

2-1/8" (54 mm)

8-1/8" (206 mm)

Adjustable Swivel Bracket

2-3/8" x 3/8" (60 x 10 mm) S/S Flat Bar

43-1/2" (1106 mm)

26-5/8" (676 mm)

Adjustable Swivel Bracket

2-3/8" (60 mm)

8-13/16" (224 mm)

5" x 5" (127 x 127 mm) Welded-on Base Plate 3/8" (10 mm) Thick

Base Flange Cover is Available on Special Order

END POST

CAT. NO.	GRADE	FINISH
P442EBS	304	Brushed Stainless
P442EPS	304	Polished Stainless

Minimum order: 1 each. All Railing Posts can be combined for quantity pricing.

180 DEGREE CENTER POST

CAT. NO.	GRADE	FINISH
P442CBS	304	Brushed Stainless
P442CPS	304	Polished Stainless

Minimum order: 1 each. All Railing Posts can be combined for quantity pricing.

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From Anywhere in the U.S. or Canada

CRL US ALUMINUM

CRL P5 Series Railing Posts
(Glass Fittings Sold Separately)

- For Use With 1/2" to 27/32" (12 to 21.52 mm) Thick Tempered Glass (See Page 289B)
- Meet or Exceed Code Standards
- Standard Post Height is 42" (1067 mm), With Custom Heights Available
- Two Standard Stainless Finishes, With Custom Powder Paint Finishes Also Available

CRL P5 Series Railing Posts are designed for commercial or residential applications that meet or exceed guard rail code standards. P5 Posts are manufactured from stainless steel flat bars, and designed to support 1-1/4" to 1-1/2" (32 to 38 mm) Schedule 40 Horizontal Tubing (see page 301B). P5 Series Posts include the Railing Saddle, Welded-on Base Plate, Base Flange Cover, and are prepped with 3/8"-16 holes for our Glass Fittings, which are sold separately (see pages 292B-293B).

For screws to attach the Top Rail to the Saddle specify Cat. No. PRS1032TC. These 10-32 x 3/4" stainless steel screw come 50 per pack. Minimum order is one pack.

US ALUMINUM MANUFACTURED IN THE USA

ONLINE *INSTALLATION* RESOURCES

EACH P5 SERIES RAILING POST INCLUDES:
(1) Railing Saddle
(1) Welded-On Base Plate
(1) Base Flange Cover

IMPORTANT: RB50 or RB51F Glass Fittings are Sold Separately (see pages 292B-293B).

All Glass Fittings Sold Separately (see pages 292B-293B)

USE MONOLITHIC TEMPERED GLASS   or   USE LAMINATED TEMPERED GLASS

180 Degree Center Post

Railing Saddle

5-7/8" (149 mm)

40-1/8" (1019 mm)

1/2" (13 mm)

29-1/2" (749 mm)

4-3/4" (121 mm)

Base Flange Cover

5" x 5" (127 x 127 mm) Base Plate 3/8" (10 mm) Thick Supplied with Base Flange Cover

Front View   **Side View**

180 Degree Center Post

End Post (Left Hand Shown)

RB50 Glass Fitting

RB51F Glass Fitting

LEFT END POST

CAT. NO.	GRADE	FINISH
P542LEBS	304	Brushed Stainless
P542LEPS	304	Polished Stainless

Minimum order: 1 each. All Railing Posts can be combined for quantity pricing.

RIGHT END POST

CAT. NO.	GRADE	FINISH
P542REBS	304	Brushed Stainless
P542REPS	304	Polished Stainless

Minimum order: 1 each. All Railing Posts can be combined for quantity pricing.

180 DEGREE CENTER POST

CAT. NO.	GRADE	FINISH
P542CBS	304	Brushed Stainless
P542CPS	304	Polished Stainless

Minimum order: 1 each. All Railing Posts can be combined for quantity pricing.

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286B

TOLL Phone: (800) 421-6144
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From Anywhere in the U.S. or Canada

CRL US ALUMINUM

CRL P6 Series Spider Fitting Railing Posts
(Glass Fittings Sold Separately)

- For Use With 1/2" (12 mm) Thick Tempered Glass (See Page 289B)
- Meet or Exceed Code Standards
- Standard Post Height is 42" (1067 mm), With Custom Heights Available
- Two Standard Stainless Finishes, With Custom Powder Paint Finishes Also Available

CRL P6 Series Spider Fitting Railing Posts are manufactured from Schedule 40 1.9" (48 mm) diameter Stainless Steel Tubing, and are designed for guard rail or hand rail applications to support 1-1/4" (32 mm) or 1-1/2" (38 mm) diameter Horizontal Tubing (see page 301B). Posts are supplied with a Base Plate, Base Flange Cover , Welded-on Adjustable Top Saddle, factory mounted Standoff Assemblies, and Fixed Glass Spider Fittings. Glass Fittings are sold separately (see page 316B).

For screws to attach the Top Rail to the Saddle specify Cat. No. PRS1032TC. These 10-32 x 3/4" stainless steel screws come 50 per pack. Minimum order is one pack. See page 303B for more information on P-Post Top Rail Installation Tool Kit.

ONLINE *INSTALLATION* RESOURCES

CRL US ALUMINUM® MANUFACTURED IN THE USA

All P6 Series Posts Have Up to 3/4" (19 mm) of Vertical Adjustment. Simply Turn the Top Saddle Support Counter-Clockwise to Raise. (Patent Pending)

EACH P6 SERIES RAILING POST INCLUDES:
(1) Adjustable Railing Saddle
(1) Welded-On Base Plate
(1) Base Flange Cover
(2) or (4) Standoff Assemblies
(2) or (4) Spider Fittings

IMPORTANT: RRF10 Glass Fittings are Sold Separately (see page 316B).

180 Degree Center Post
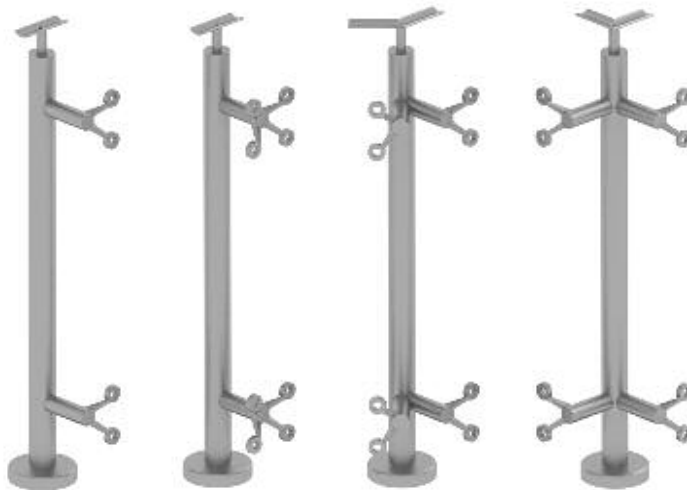
Adjustable Railing Saddle
1-3/4" (44 mm) with 3/4" (19 mm) of Vertical Height Adjustment
6-15/16" (176 mm)
1-1/4" (32 mm) Standoff Assembly
1.9" (48 mm) Round Post
40-9/16" (1030 mm)
23-7/16" (595 mm)
1-1/4" (32 mm) Standoff Assembly
4-3/4" (121 mm) Diameter x 3/8" (10 mm) Thick Base Plate and Base Flange Cover
8-7/16" (214 mm)

USE MONOLITHIC TEMPERED GLASS or **USE LAMINATED TEMPERED GLASS**

RRF10 Rigid Head Glass Fitting (Surface Mount Shown)

RRF10 Rigid Head Glass Fitting (Flush Mount Shown)

Flange and Cover
4-7/16" (113 mm)
1-1/4" (32 mm) Standoff Attached to Post Included
CRL Spider Fitting Included (Without Glass Fittings)
1-9/16" (40 mm)
4-3/4" (121 mm)

End Post

180 Degree Center Post

135 Degree Angle Post

90 Degree Corner Post
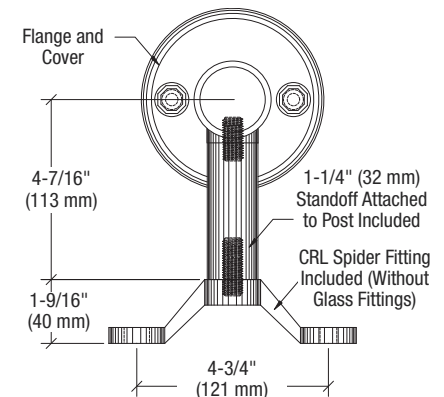
END POST

CAT. NO.	GRADE	FINISH
P642EBS	316	Brushed Stainless
P642EPS	316	Polished Stainless

Minimum order: 1 each. All Railing Posts can be combined for quantity pricing.

180 DEGREE CENTER POST

CAT. NO.	GRADE	FINISH
P642CBS	316	Brushed Stainless
P642CPS	316	Polished Stainless

Minimum order: 1 each. All Railing Posts can be combined for quantity pricing.

90 DEGREE CORNER POST

CAT. NO.	GRADE	FINISH
P642LBS	316	Brushed Stainless
P642LPS	316	Polished Stainless

Minimum order: 1 each. All Railing Posts can be combined for quantity pricing.

135 DEGREE ANGLE POST

CAT. NO.	GRADE	FINISH
P642ABS	316	Brushed Stainless
P642APS	316	Polished Stainless

Minimum order: 1 each. All Railing Posts can be combined for quantity pricing.

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287B

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TOLL Phone: (800) 421-6144
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From Anywhere in the U.S. or Canada

CRL US ALUMINUM®

CRL P8 Series Railing Posts
(Glass Fittings Sold Separately)

- For Use With 1/2" to 27/32" (12 to 21.52 mm) Thick Tempered Glass (See Page 289B)
- Meet or Exceed Code Standards
- Standard Post Height is 42" (1067 mm), With Custom Heights Available
- Two Standard Stainless Finishes, With Custom Powder Paint Finishes Also Available

These innovative Railing Posts can be used for guard rail or hand rail applications. CRL's P8 Series Railing Posts are manufactured from 1/2" x 2" (13 x 51 mm) Stainless Steel Flat Bars. Saddles support 1-1/4" or 1-1/2" (32 or 38 mm) Schedule 40 Hand Rail Tubing (see page 301B). Posts are supplied with a Welded-on Base Plate, Railing Saddle, and are prepped with 3/8"-16 holes for our Glass Fittings or ZP-Series Glass Clamps, which are sold separately (see pages 292B-293B).

For screws to attach the Top Rail to the Saddle specify Cat. No. PRS1032TC. These 10-32 x 3/4" stainless steel screws come 50 per pack. Minimum order is one pack. See page 303B for more information on our P-Post Top Rail Installation Tool Kit.

CRL US ALUMINUM MANUFACTURED IN THE USA

USE MONOLITHIC TEMPERED GLASS or **USE LAMINATED TEMPERED GLASS**

All Glass Fittings or ZP-Series Glass Clamps Sold Separately (see pages 292B-293B)

End Post | 180 Degree Center Post | 135 Degree Angle Post | 90 Degree Corner Post

ONLINE *INSTALLATION RESOURCES*

EACH P8 SERIES RAILING POST INCLUDES:
(1) Railing Saddle
(1) Welded-On Base Plate

IMPORTANT: RB50, RB51F Glass Fittings or ZP912 Clamps are Sold Separately (see pages 292B-293B).

RB50 Glass Fitting
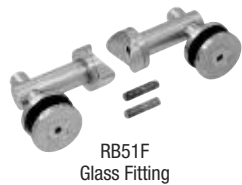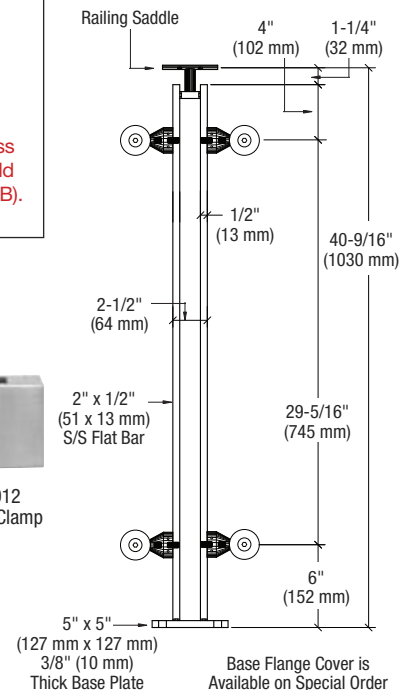
RB51F Glass Fitting

ZP912 Glass Clamp

180 Degree Center Post

Railing Saddle
4" (102 mm)
1-1/4" (32 mm)
1/2" (13 mm)
40-9/16" (1030 mm)
2-1/2" (64 mm)
2" x 1/2" (51 x 13 mm) S/S Flat Bar
29-5/16" (745 mm)
6" (152 mm)
5" x 5" (127 mm x 127 mm) 3/8" (10 mm) Thick Base Plate
Base Flange Cover is Available on Special Order

END POST

CAT. NO.	GRADE	FINISH
P8F42EBS	304	Brushed Stainless
P8F42EPS	304	Polished Stainless

Minimum order: 1 each. All Railing Posts can be combined for quantity pricing.

90 DEGREE CORNER POST

CAT. NO.	GRADE	FINISH
P8F42LBS	304	Brushed Stainless
P8F42LPS	304	Polished Stainless

Minimum order: 1 each. All Railing Posts can be combined for quantity pricing.

180 DEGREE CENTER POST

CAT. NO.	GRADE	FINISH
P8F42CBS	304	Brushed Stainless
P8F42CPS	304	Polished Stainless

Minimum order: 1 each. All Railing Posts can be combined for quantity pricing.

135 DEGREE ANGLE POST

CAT. NO.	GRADE	FINISH
P8F42ABS	304	Brushed Stainless
P8F42APS	304	Polished Stainless

Minimum order: 1 each. All Railing Posts can be combined for quantity pricing.

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TOLL Phone: (800) 421-6144
FREE Fax: (800) 262-3299
From Anywhere in the U.S. or Canada

CRL US ALUMINUM

CRL P-Series Post Monolithic Tempered "Rail Glass"

NEW!

- For P-Series Post Railing Applications
- All Glass Panels Ship Cut and Tempered, Ready to Install
- Three Standard Monolithic Glass Thicknesses to Choose From
- Clear Tempered and Low Iron (Starphire) Glass Types Available
- Custom Sizes, Fabrication, Drilling, and Edge Work Available

Designed for interior and exterior glass railing applications, CRL's "Rail Glass" is fabricated and tempered in accordance with Federal Specifications: ANSI Z97.1, and CPSC 16, CFR 1201 standards. Custom sizes, fabrication, and edge work is also available. Wood crating charges apply (maximum 1500 pounds [680 kg] per crate). Contact Railing Technical Sales for more information at (800) 421-6144 (U.S.), (877) 421-6144 (Canada), or (323) 588-1281 (International). Ask for Ext. 7730. You can also send email to **railings@crlaurence.com**.

Clear Monolithic Tempered

Low Iron Starphire® Monolithic Tempered

USE MONOLITHIC TEMPERED GLASS

- Proudly Produced in the U.S.A.

Standard Edge Work

1/2" (12 MM) THICK CLEAR AND LOW IRON STARPHIRE® TEMPERED GLASS

CAT. NO.	SIZE	DESCRIPTION
MG12CC	Custom Size (Specify)	Clear Tempered
MG12LC	Custom Size (Specify)	Low Iron Starphire® Tempered

Minimum order: 1 each. Boxing and crating charges will apply for all orders.

5/8" (15 MM) THICK CLEAR AND LOW IRON STARPHIRE® TEMPERED GLASS

CAT. NO.	SIZE	DESCRIPTION
MG15CC	Custom Size (Specify)	Clear Tempered
MG15LC	Custom Size (Specify)	Low Iron Starphire® Tempered

Minimum order: 1 each. Boxing and crating charges will apply for all orders.

3/4" (19 MM) THICK CLEAR AND LOW IRON STARPHIRE® TEMPERED GLASS

CAT. NO.	SIZE	DESCRIPTION
MG19CC	Custom Size (Specify)	Clear Tempered
MG19LC	Custom Size (Specify)	Low Iron Starphire® Tempered

Minimum order: 1 each. Boxing and crating charges will apply for all orders.

CRL P-Series Post Laminated Tempered "Rail Glass"

NEW!

- Laminated Clear Tempered and Low Iron Starphire® Glass Types Available
- Flat Polished Edges With CRL's "Precise Edge" Technology
- Custom Sizes, Fabrication, and Edge Work Available
- Meets IBC 2015 Building Code Requirements

CRL's Laminated "Rail Glass" Panels for glass balustrade applications meet the test criteria of ANSI Z97.1 and CPSC 16, CFR1201 standards, and are produced with a rigid Ionoplast™ interlayer. Our "Precise Edge" Technology dramatically improves the edge quality of laminated glass and gives each flat polished edge a consistent clean look and feel. Custom sizes, fabrication, and edge work is available. Wood crating charges apply (maximum 1500 pounds [680 kg] per crate). Contact CRL's Railing Technical Sales for more information.

Clear Laminated Tempered

Low Iron Starphire® Laminated Tempered

USE LAMINATED TEMPERED GLASS

- Proudly Produced in the U.S.A.

Precise Edge Technology

9/16" (13.52 MM) THICK CLEAR AND LOW IRON STARPHIRE® LAMINATED TEMPERED GLASS

CAT. NO.	SIZE	DESCRIPTION
LG13CC	Custom Size (Specify)	Laminated Clear Tempered
LG13LC	Custom Size (Specify)	Laminated Low Iron Starphire® Tempered

Minimum order: 1 each. Boxing and crating charges will apply for all orders.

11/16" (17.52 MM) THICK CLEAR AND LOW IRON STARPHIRE® LAMINATED TEMPERED GLASS

CAT. NO.	SIZE	DESCRIPTION
LG17CC	Custom Size (Specify)	Laminated Clear Tempered
LG17LC	Custom Size (Specify)	Laminated Low Iron Starphire® Tempered

Minimum order: 1 each. Boxing and crating charges will apply for all orders.

27/32" (21.52 MM) THICK CLEAR AND LOW IRON STARPHIRE® LAMINATED TEMPERED GLASS

CAT. NO.	SIZE	DESCRIPTION
LG21CC	Custom Size (Specify)	Laminated Clear Tempered
LG21LC	Custom Size (Specify)	Laminated Low Iron Starphire® Tempered

Minimum order: 1 each. Boxing and crating charges will apply for all orders.

Starphire® is a registered trademark of PPG Industries Ohio, Inc.

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TOLL Phone: (800) 421-6144
FREE   Fax: (800) 262-3299
From Anywhere in the U.S. or Canada

CRL US ALUMINUM

CRL Glass Clamp Round Post Kits
(Not Designed for Guard Rail Applications)

- Square or Round Z-Series Glass Clamps Mounted on 1.9" (48 mm) Diameter Posts
- Ready to Install for Both Commercial and Residential Applications
- Designed to Accept 1/2" or 9/16" (12 or 13.52 mm) Glass
- Standard Post Heights are 36" and 42" (914 and 1067 mm)
- Custom Post Heights Also Available
- Offered in Two Standard Stainless Finishes
- Custom Powder Paint Finishes Also Available

CRL US ALUMINUM
MANUFACTURED IN THE USA

USE MONOLITHIC TEMPERED GLASS

or

USE LAMINATED TEMPERED GLASS

Glass Clamps are included with Post Kits

End Post Kit

180 Degree Center Post Kit

135 Degree Center Post Kit

90 Degree Corner Post Kit
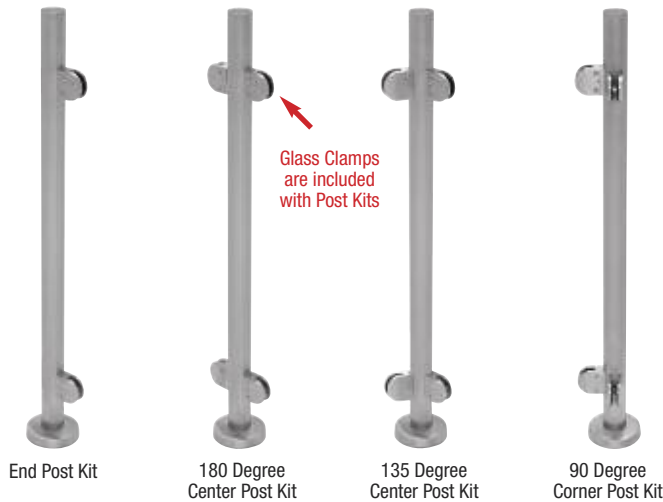
CRL's Glass Clamp Round Post Kits are manufactured from Schedule 40 1.9" (48 mm) diameter Stainless Steel Tubing. Kits are supplied complete with a Base Plate, Base Plate Cover Canopy, Welded Top Cap, and Z-Series Glass Clamps that are factory-attached to the Post.

NOTE: CRL's Glass Clamp Post Kits are not designed for guard rail or hand rail applications. Blank Post Kits are also available, go to **crlaurence.com/post-railing** for more information.

Connected to Post Using Cat. No. ZBOLT 5/16"-18 Thread

Round Clamp

Square Clamp

Factory Welded End Cap

6" (152 mm)

Post Height

1.9" (48 mm) Diameter Post

4-3/4" (121 mm) Diameter x 3/8" (10 mm) Thick Base Flange With Cover

6" (152 mm)
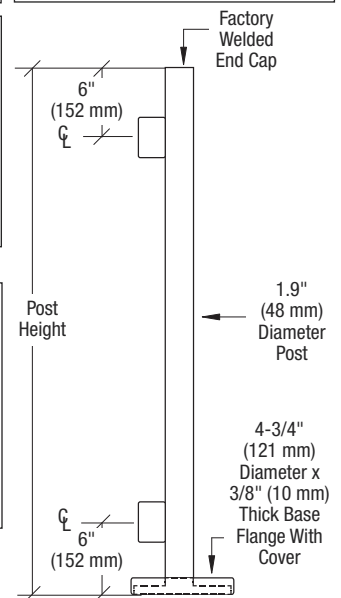
END POST KITS

36" HEIGHT CAT. NO.	42" HEIGHT CAT. NO.	CLAMP TYPE	GRADE	FINISH
PR36EBS	PR42EBS	Round	316	Brushed Stainless
PS36EBS	PS42EBS	Square	316	Brushed Stainless
PR36EPS	PR42EPS	Round	316	Polished Stainless
PS36EPS	PS42EPS	Square	316	Polished Stainless

Minimum order: 1 each. All sizes and finishes can be combined for quantity pricing.

90 DEGREE CORNER POST KITS

36" HEIGHT CAT. NO.	42" HEIGHT CAT. NO.	CLAMP TYPE	GRADE	FINISH
PR36LBS	PR42LBS	Round	316	Brushed Stainless
PS36LBS	PS42LBS	Square	316	Brushed Stainless
PR36LPS	PR42LPS	Round	316	Polished Stainless
PS36LPS	PS42LPS	Square	316	Polished Stainless

Minimum order: 1 each. All sizes and finishes can be combined for quantity pricing.

180 DEGREE CENTER POST KITS

36" HEIGHT CAT. NO.	42" HEIGHT CAT. NO.	CLAMP TYPE	GRADE	FINISH
PR36CBS	PR42CBS	Round	316	Brushed Stainless
PS36CBS	PS42CBS	Square	316	Brushed Stainless
PR36CPS	PR42CPS	Round	316	Polished Stainless
PS36CPS	PS42CPS	Square	316	Polished Stainless

Minimum order: 1 each. All sizes and finishes can be combined for quantity pricing.

135 DEGREE CENTER POST KITS

36" HEIGHT CAT. NO.	42" HEIGHT CAT. NO.	CLAMP TYPE	GRADE	FINISH
PR36ABS	PR42ABS	Round	316	Brushed Stainless
PS36ABS	PS42ABS	Square	316	Brushed Stainless
PR36APS	PR42APS	Round	316	Polished Stainless
PS36APS	PS42APS	Square	316	Polished Stainless

Minimum order: 1 each. All sizes and finishes can be combined for quantity pricing.

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From Anywhere in the U.S. or Canada

CRL US ALUMINUM

or enter the Catalog Number for complete product information

CRL Glass Clamp Square Post Kits

(Not Designed for Guard Rail Applications)

- Square or Round Z-Series Glass Clamps Mounted on 2" (51 mm) Square Posts
- Ready to Install for Both Commercial and Residential Applications
- Designed to Accept 1/2" or 9/16" (12 or 13.52 mm) Glass
- Standard Post Heights are 36" and 42" (914 and 1067 mm)
- Custom Post Heights Also Available
- Offered in Two Standard Stainless Finishes
- Custom Powder Paint Finishes Also Available

US ALUMINUM
MANUFACTURED IN THE USA

USE MONOLITHIC TEMPERED GLASS

or

USE LAMINATED TEMPERED GLASS
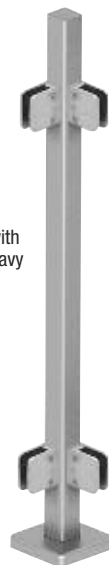
Glass Clamps are included with Post Kits

2" Square Posts with .188" (4.8 mm) Heavy Wall Thickness

End Post Kit

180 Degree Center Post Kit

90 Degree Corner Post Kit

Round Clamp

Square Clamp

Connected to Post Using Cat. No. ZBOLT 5/16"-18 Thread

Factory Welded End Cap

6" (152 mm)

Post Height

2" (51 mm) Square Post

5" x 5" (127 x 127 mm) Square x 3/8" (9.5 mm) Thick Base Flange With Cover

6" (152 mm)

CRL's Glass Clamp Square Post Kits are manufactured from Schedule 40 2" (51 mm) Stainless Steel Tubing. Kits are supplied complete with a Base Plate, Base Plate Cover Canopy, Welded Top Cap, and Z-Series Glass Clamps that are factory-attached to the Post.

NOTE: CRL's Glass Clamp Post Kits are not designed for guard rail or hand rail applications. Blank Post Kits are also available, go to **crlaurence.com/post-railing** for more information.

END POST KITS

36" HEIGHT CAT. NO.	42" HEIGHT CAT. NO.	CLAMP TYPE	GRADE	FINISH
SPR36EBS	SPR42EBS	Round	316	Brushed Stainless
SPS36EBS	SPS42EBS	Square	316	Brushed Stainless
SPR36EPS	SPR42EPS	Round	316	Polished Stainless
SPS36EPS	SPS42EPS	Square	316	Polished Stainless

Minimum order: 1 each. All sizes and finishes can be combined for quantity pricing.

90 DEGREE CORNER POST KITS

36" HEIGHT CAT. NO.	42" HEIGHT CAT. NO.	CLAMP TYPE	GRADE	FINISH
SPR36LBS	SPR42LBS	Round	316	Brushed Stainless
SPS36LBS	SPS42LBS	Square	316	Brushed Stainless
SPR36LPS	SPR42LPS	Round	316	Polished Stainless
SPS36LPS	SPS42LPS	Square	316	Polished Stainless

Minimum order: 1 each. All sizes and finishes can be combined for quantity pricing.

180 DEGREE CENTER POST KITS

36" HEIGHT CAT. NO.	42" HEIGHT CAT. NO.	CLAMP TYPE	GRADE	FINISH
SPR36CBS	SPR42CBS	Round	316	Brushed Stainless
SPS36CBS	SPS42CBS	Square	316	Brushed Stainless
SPR36CPS	SPR42CPS	Round	316	Polished Stainless
SPS36CPS	SPS42CPS	Square	316	Polished Stainless

Minimum order: 1 each. All sizes and finishes can be combined for quantity pricing.

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TOLL Phone: (800) 421-6144
FREE Fax: (800) 262-3299
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CRL US ALUMINUM

CRL Double Arm Fixed Glass Fittings for Round Post or Flat Surface Mounting

- Designed for Railings, Canopies, Awnings, and Other Applications
- Complete With Hardware to Mount to Post, Column or Wall
- Designed for Straight or Segmented Applications
- 316 Grade Stainless Steel Construction for Durability
- Compact Design for Minimal Obstruction
- For 1/2" (12 mm) Thick Glazing Standard; Can Support Up to 1" (25 mm) Thickness With Extension Bolts Shown Below

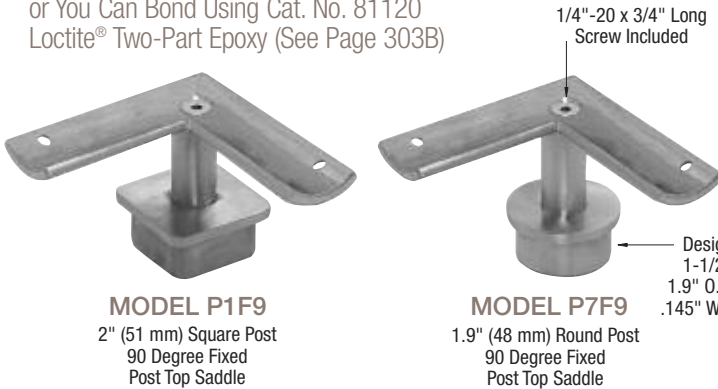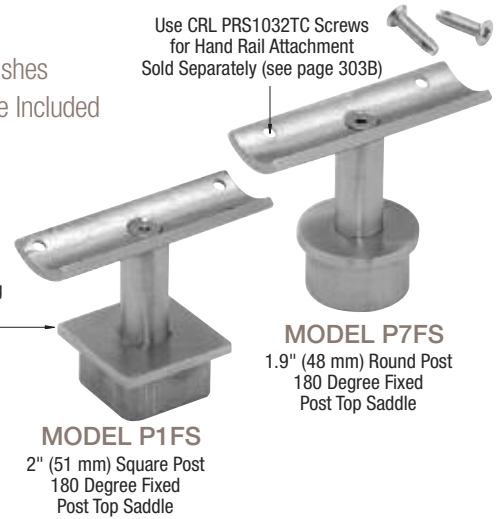CRL's Double Arm Fixed Glass Fittings are designed for almost any application where your glazing needs to be point supported. The Fittings can be mounted to round or flat posts, walls, glass fins, canopy brackets, and many other substrates. The compact design offers minimal obstruction.

Two stainless finishes are available, brushed and polished. Comes with two 3/8"-16 x 13/16" (21 mm) stainless steel threaded studs for attachment. **NOTE:** For 90 Degree Corner Post conditions order Cat. No. RB509BS/PS for the Modified Coped Adapter Set.

SPECIFICATIONS:
For use with 1/2" (12 mm) Tempered or Laminated Tempered Glass. For larger glass thickness up to 1" (25 mm) use CRL's Glass Extension Bolts shown below. (Do not use with raw or annealed glass).

GLASS FABRICATION:
One 3/4" (19 mm) Diameter Hole Per Fitting. Replacement Gasket and Grommet Set is Cat. No. RS0BRG1

RB51F Series Double Arm Glass Fitting Set

1-7/8" (48 mm)
₵ of glass
2" (51 mm)

Comes with Removable Coped Adapter Designed for 1-1/2" (38 mm) Schedule 40 1.9" O.D. Post

Flat Surface, Wall Mount Application

USE MONOLITHIC TEMPERED GLASS   or   USE LAMINATED TEMPERED GLASS
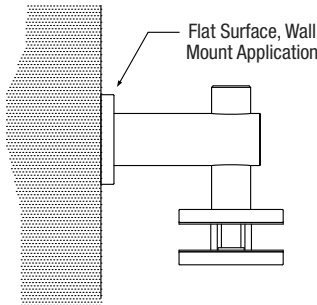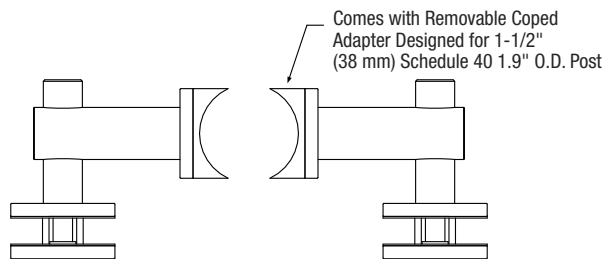
FIXED FITTING SET

CAT. NO.	GRADE	FINISH
RB51FBS	316	Brushed Stainless
RB51FPS	316	Polished Stainless

Minimum order: 1 set. Finishes can be combined for quantity pricing.
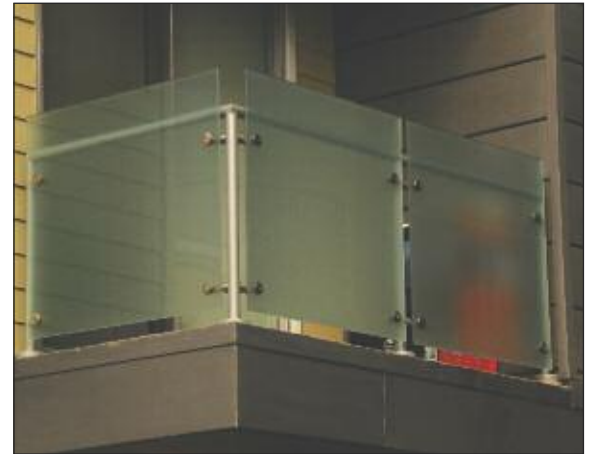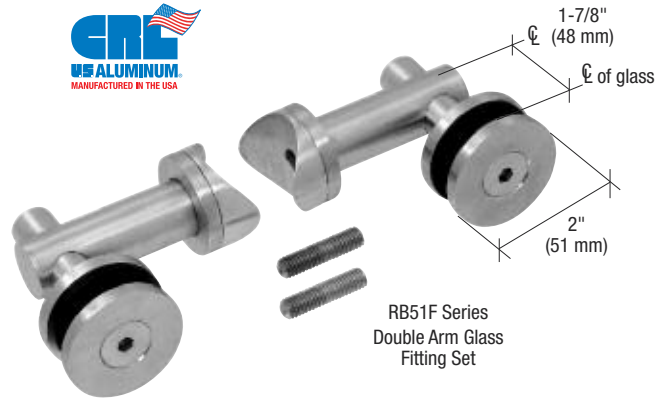
CRL Glass Extension Bolts

- Threaded Studs for Thicker Glass Panel Applications
- For Use With RB50 and RB51F Glass Fittings
- 316 Grade Stainless 3/8"-16 Threaded Studs

CRL's Glass Extension Bolts were designed for projects that require thicker panel connections. Made from 316 Grade Stainless Steel, these component parts are designed to work with our RB50 and RB51F Series Double Arm Glass Fittings.

BRUSHED STAINLESS CAT. NO.	POLISHED STAINLESS CAT. NO.	GLASS THICKNESS	LENGTH
RBEB2BS	RBEB2PS	1/2" and 9/16" (12 and 13.52 mm)	2" (51 mm)
RBEB214BS	RBEB214PS	3/4"and 13/16" (19 and 21.52 mm)	2-1/4" (57 mm)
RBEB212BS	RBEB212PS	1" (25 mm)	2-1/2" (63 mm)

Minimum order: 1 each. Sizes and finishes can be combined for quantity pricing.

CAT. NO. RBEB2
2" (51 mm)

CAT. NO. RBEB214
2-1/4" (57 mm)

CAT. NO. RBEB212
2-1/2" (63 mm)

Bolt Shown in Typical Application

Fittings Sold Separately

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CRL US ALUMINUM
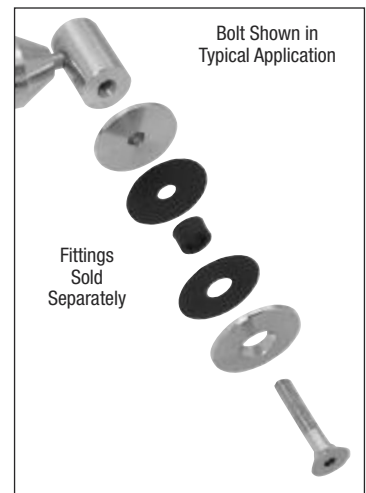
CRL Double Arm Glass Fittings for Round Post or Flat Surface Mounting

- Choice of Fixed or Swivel Mount Styles Designed for Railings, Canopies, Awnings, and Other Applications
- Complete With Hardware to Mount to Post, Column or Wall
- Designed for Straight or Segmented Applications
- 316 Grade Stainless Steel Construction for Durability
- For 1/2" (12 mm) Thick Glazing Standard; Can Support Up to 1" (25 mm) Thickness With Extension Bolts (See Page 292B)

1-7/8" (48 mm)
℄ of glass
2" (51 mm)

RB50 Series
Double Arm Glass Fitting Set

This ingenious Double Arm Glass Fitting can be used to mount 1/2" (12 mm) tempered glass to posts, walls, glass fins, and canopy brackets. The compact attachment portion offers minimal obstruction to the glass, and you can choose from either a fixed or swivel mount. Glass fabrication is limited to only one 3/4" (19 mm) hole per mount.

Two stainless finishes are available, brushed and polished. Comes with two 3/8"-16 x 13/16" (21 mm) and one 3/8"-16 x 1-1/4" (32 mm) stainless steel threaded studs.

USE MONOLITHIC TEMPERED GLASS   or   USE LAMINATED TEMPERED GLASS

Swivel Nut Wrench

Used to tighten RB50S Swivel Nuts Only

CAT. NO. SNW3
Minimum order is one each

Swivel Fitting Set
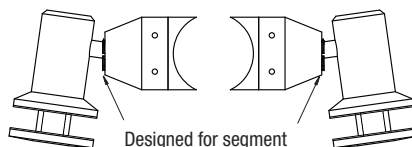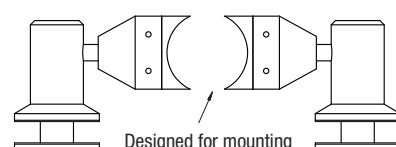
Designed for segment applications. Each Swivel Fitting is adjustable up to 8 degrees

Fixed Fitting Set

Designed for mounting to 1-1/2" (38 mm) Schedule 40 Post, Column, or Flat Wall

SPECIFICATIONS:
For use with 1/2" (12 mm) Tempered or Laminated Tempered Glass. For larger glass thickness up to 1" (25 mm) use CRL's Glass Extension Bolts on page 292B. (Do not use with raw or annealed glass).
GLASS FABRICATION:
One 3/4" (19 mm) Diameter Hole Per Fitting. Replacement Gasket and Grommet Set is Cat. No. RS0BRG1

SWIVEL FITTING SET

CAT. NO.	GRADE	FINISH
RB50SBS	316	Brushed Stainless
RB50SPS	316	Polished Stainless

Minimum order: 1 set. Finishes can be combined for quantity pricing.

FIXED FITTING SET

CAT. NO.	GRADE	FINISH
RB50FBS	316	Brushed Stainless
RB50FPS	316	Polished Stainless

Minimum order: 1 set. Finishes can be combined for quantity pricing.

Comes with Coped Bracket Designed for 1-1/2" (38 mm) Schedule 40 1.9" (48 mm) O.D. Post Mount

Post Mount Application

Shown Without Coped Bracket
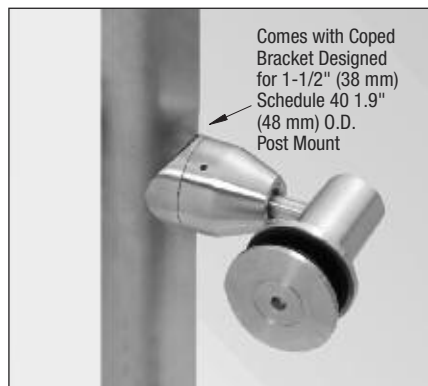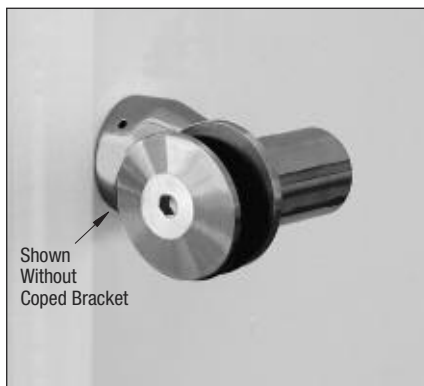
Wall Mount Application
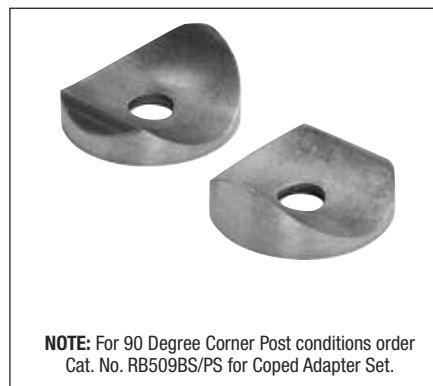
NOTE: For 90 Degree Corner Post conditions order Cat. No. RB509BS/PS for Coped Adapter Set.

Optional 90 Degree Corner Post Adapters

go to crlaurence.com to search for
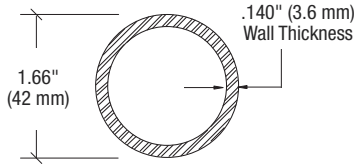
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TOLL Phone: (800) 421-6144
FREE Fax: (800) 262-3299
From Anywhere in the U.S. or Canada

CRL US ALUMINUM

CRL ZP-Series Square Type Glass Clamps for P-Series Posts

SPECIFICATIONS:

Glass Thickness: 1/2" (12 mm) and 9/16" (13.52 mm).

Base Design: Flat or Radius.

For Use With: Square Tubing or Other Flat Surfaces and 1.9" (48 mm) Diameter Round Tubing.

Material: 316 Grade Stainless Steel.

Glass Fabrication:
One 7/8" (22 mm) diameter finger notch is required. The included steel pin must be used for guard rail infill applications to support the glass.

Includes: Rubber Gaskets and Steel Pin.

USE MONOLITHIC TEMPERED GLASS

or

USE LAMINATED TEMPERED GLASS

3/8"-16 x 5/8" Long Bolt
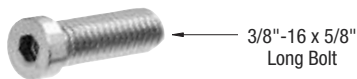
CAT. NO. ZBOLT38
Cap Bolt for Use
With P-Posts
(Sold Separately)

Connected to Post Using
Cat. No. ZBOLT38

Flat Base Clamps for 1/2" and 9/16" (12 and 13.52 mm) Glass

NEW!

2-1/8" (54 mm)

1-1/4" (32 mm)

2-5/16" (59 mm)

1-3/32" (28 mm)

11/16" (17 mm)
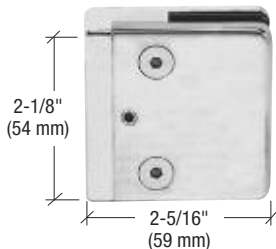
Base View Front View Rear View Side View
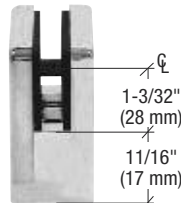
- Flat Base for Use With Square P1, P2, P3, and P8 Series Posts
- 316 Grade Stainless Steel

CAT. NO.	DESCRIPTION
ZP912BS	Brushed Stainless Flat Base Clamp
ZP912PS	Polished Stainless Flat Base Clamp
Z12SG	Replacement Gasket Set for One Clamp

Minimum order for Clamps: 1 each. Minimum order for Gaskets: 1 pack.
All Z-Series Clamps can be combined for quantity pricing.

Radius Base Clamps for 1/2" and 9/16" (12 and 13.52 mm) Glass

NEW!

2-1/8" (54 mm)

1-1/4" (32 mm)

2-17/32" (64 mm)

1-3/32" (28 mm)

11/16" (17 mm)
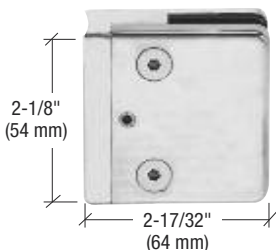
Base View Front View Rear View Side View
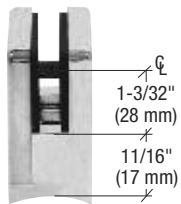
- Radius Base for Use With Round Schedule 40 1.9" (48 mm) Diameter P7 Series Posts
- 316 Grade Stainless Steel

CAT. NO.	DESCRIPTION
ZP712BS	Brushed Stainless Radius Base Clamp
ZP712PS	Polished Stainless Radius Base Clamp
Z12SG	Replacement Gasket Set for One Clamp

Minimum order for Clamps: 1 each. Minimum order for Gaskets: 1 pack.
All Z-Series Clamps can be combined for quantity pricing.

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CRL US ALUMINUM

CRL 1-1/2" Schedule 40 P6 and P7 Post Tubing

- 1.9" (48 mm) Outside Diameter
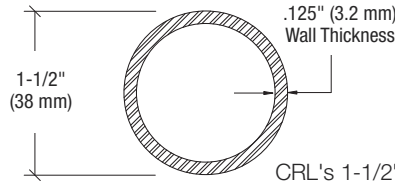- Designed for Guard Rail, Hand Rail, Stairway, and Handicap Ramp Area Posts
- Available in Brushed or Polished Stainless Steel
- Available in Stock Lengths or Custom Fabricated to Your Specifications
- For Blank Posts With Top Saddles, See Pages 281B to 282B

.145" (3.7 mm) Wall Thickness
1.9" (48 mm)
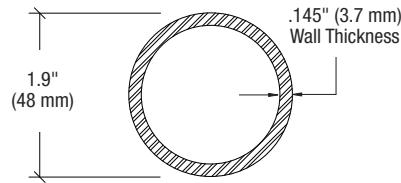
Linear Hairline Finish

CAT. NO.	GRADE	FINISH	LENGTH
PR15BS10	316	Brushed Stainless	120" (3.05 m)
PR15BS20	316	Brushed Stainless	240" (6.10 m)
PR15PS10	316	Polished Stainless	120" (3.05 m)
PR15PS20	316	Polished Stainless	240" (6.10 m)

Minimum order: 1 each. All sizes and finishes can be combined for quantity pricing. Must ship via common carrier.

CRL's 1-1/2" Schedule 40 Pipe Rail Tubing is designed for guard rail, hand rail, stairway, and handicap ramp area posts. Use our Cat. No. 81120 Two Part Epoxy (see page 303B) to achieve a secure and permanent bond at all connections.

NOTE: Brushed Stainless has a hairline linear finish.

CRL 2" Square O.D. P1 Series Post Tubing

- 2" (51 mm) Outside Diameter
- Designed for Guard Rail, Hand Rail, Stairway, and Handicap Ramp Areas
- Available in Brushed or Polished Stainless Steel
- Available in Stock Lengths or Custom Fabricated to Your Specifications
- For Blank Posts With Top Saddles, See Pages 281B to 282B

.187" (4.8 mm) Wall Thickness
2" (51 mm)
Radius 9/32" (7 mm)
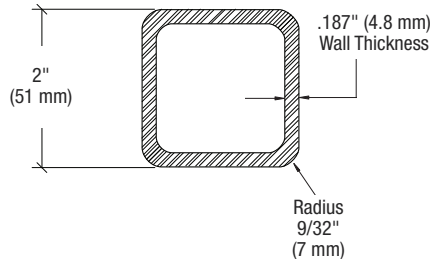
Linear Hairline Finish

CAT. NO.	GRADE	FINISH	LENGTH
PR2BS10	316	Brushed Stainless	120" (3.05 m)
PR2BS20	316	Brushed Stainless	240" (6.10 m)
PR2PS10	316	Polished Stainless	120" (3.05 m)
PR2PS20	316	Polished Stainless	240" (6.10 m))

Minimum order: 1 each. All sizes and finishes can be combined for quantity pricing. Must ship via common carrier.

CRL's 2" Square Pipe Rail Tubing is designed for guard rail, hand rail, stairway, and handicap ramp area posts. Use our Cat. No. 81120 Two Part Epoxy (see page 303B) to achieve a secure and permanent bond at all connections.

NOTE: Brushed Stainless has a hairline linear finish.

CRL P-Series Post Surface Mount Stanchions

NEW!

- 316 Grade Unfinished Cast Stainless Steel
- No Welding Required, Installs With CRL Two Part Epoxy (See Page 303B)
- For Use With CRL P1, P6, and P7 Series Posts

Stanchion for use with 2" (51 mm) Square Tubing with .187" (4. 8 mm) Wall
5" (127 mm)
9/16" (14 mm) Diameter Mounting Holes
3/8" (10 mm)
3-3/4" (95 mm)
5" (127 mm)
5" (127 mm)

CAT. NO. P1BFS
P1 Series Stanchion

Stanchion for use with 1-1/2" SCH. 40 1.9" O.D. Tubing
5" (127 mm)
3/8" (10 mm)
9/16" (14 mm) Diameter Mounting Holes
3-1/2" (89 mm)
4-3/4" (121 mm)

CAT. NO. P7BFS
P6/P7 Series Stanchion
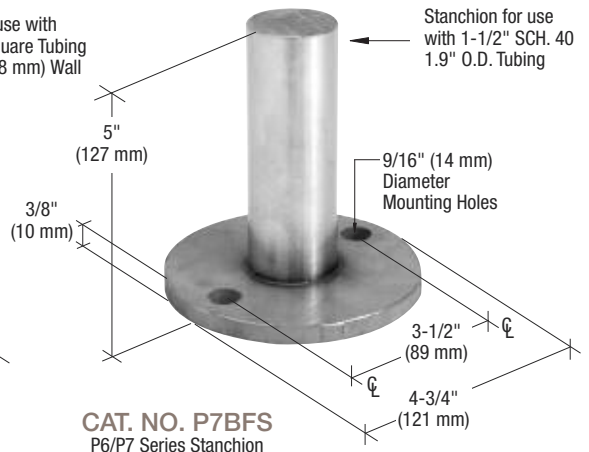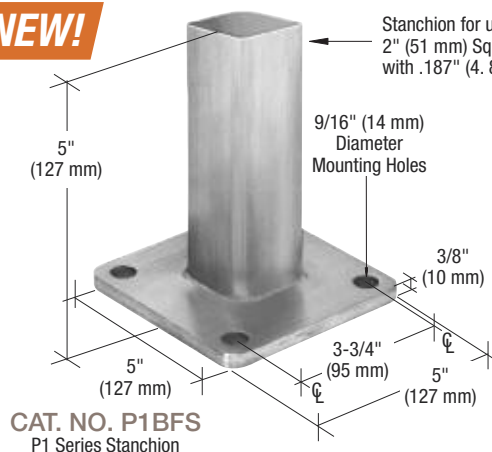
CAT. NO.	GRADE	FITS P-SERIES POSTS
P1BFS	316	P1
P7BFS	316	P6, P7

Minimum order: 1 each.

Use these 316 Grade Stainless Steel Stanchions to surface mount custom fabricated P-Series Posts. Stanchions come welded to a steel base plate, and simply install into P1, P6, and P7 Post Tubing using CRL Cat. No. 81120 Two-Part Epoxy Adhesive (see page 303B).

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TOLL Phone: (800) 421-6144
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From Anywhere in the U.S. or Canada

CRL US ALUMINUM

CRL Base Flanges for Schedule 40 Tubing

- For Use With CRL's P6 and P7 Posts
- Flanges for 1.9" (48 mm) O.D. and 1.66" (42 mm) O.D. Tubing
- Designed to be Welded to the Post Base
- Fastened With 3/8" (10 mm) Anchor Bolts

CRL Base Flanges can be used on guard rail, hand rail, stairway, and handicap ramp areas. Available for concrete, steel, and wood substrates and fastened with 3/8" (9.5 mm) anchor bolts, these Base Flanges need to be welded to the post base during fabrication. For use with CRL's P6 and P7 Post Kits. Cover Plates are sold separately (see below).

3/8" (10 mm)

Concrete/Steel Mount

3/8" (10 mm)

Wood Mount

9/16" (14 mm) Diameter Mounting Holes

9/16" (14 mm) Diameter Mounting Holes

1-1/4" (32 mm)

3-1/2" (89 mm)

4-3/4" (121 mm)

3" (76 mm)

4-3/4" (121 mm)
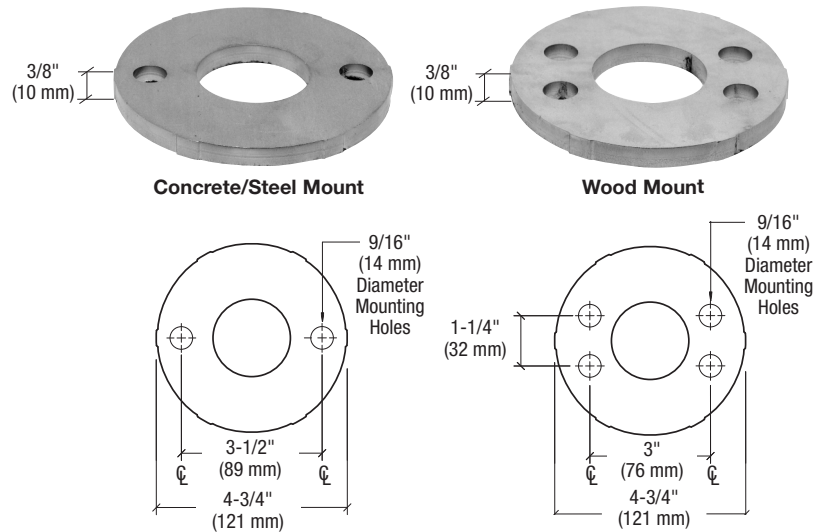
CAT. NO.	DESCRIPTION	MOUNTING STYLE	MATERIAL
PR12FCS	Base Flange for 1-1/4" (32 mm) Sch. 40 Pipe Rail	Concrete/Steel Mount	316 Grade Stainless Steel
PR12FWS	Base Flange for 1-1/4" (32 mm) Sch. 40 Pipe Rail	Wood Mount	316 Grade Stainless Steel
PR15FCS	Base Flange for 1-1/2" (38 mm) Sch. 40 Pipe Rail	Concrete/Steel Mount	316 Grade Stainless Steel
PR15FWS	Base Flange for 1-1/2" (38 mm) Sch. 40 Pipe Rail	Wood Mount	316 Grade Stainless Steel

Minimum order: 1 each.

CRL Base Flange for 2" Square Tubing

- For Use With P1 Posts
- Flanges for 2" (51 mm) O.D. CRL Square Tubing
- Designed to be Welded to the Post's Base
- For Mounting on Concrete, Steel, or Wood Substrates
- Uses 3/8" (10 mm) Anchors

9/16" (14 mm) Diameter Mounting Holes

316 Grade

3-3/4" (95 mm)

5" (127 mm)

5" (127 mm)

3/8" (10 mm) Thick
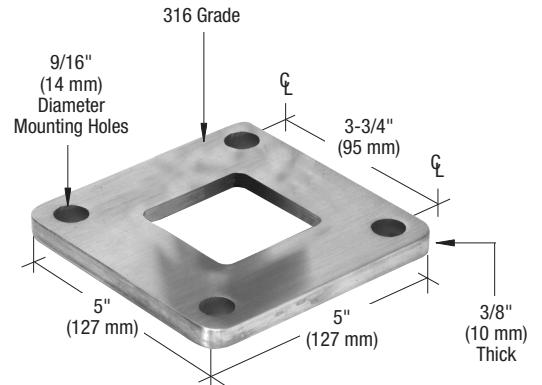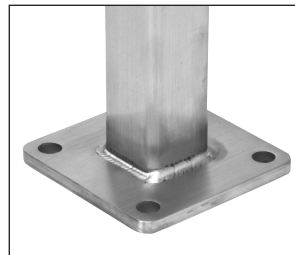
CAT. NO.	DESCRIPTION	MATERIAL
PRS2CS	Base Flange for 2" (51 mm) O.D. Square Tubing	316 Grade Stainless Steel

Minimum order: 1 each.

Concrete, Steel, and Wood Mount

CRL Base Flange Covers for P-Series Post Kits

- Covers Designed for the P1, P3, P5, P6 and P7 Posts
- 1" (25 mm) Standard Height
- Brushed or Polished Stainless Steel Finishes

CRL Base Flange Covers for P-Series Post Kits are designed to snap over the base flange and cover the base plate and anchor bolts to dress up the installation.

P1   P3   P5   P6/P7
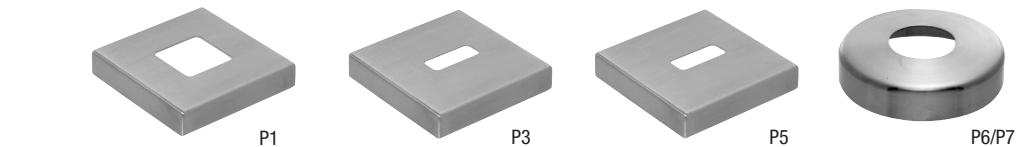
CAT. NO.	FOR USE WITH	GRADE	FINISH
CR16SPCBS	P1 Posts	304	Brushed Stainless
CR16SPCPS	P1 Posts	304	Polished Stainless
CR17SPCBS	P3 Posts	304	Brushed Stainless
CR17SPCPS	P3 Posts	304	Polished Stainless
CR18SPCBS	P5 Posts	304	Brushed Stainless
CR18SPCPS	P5 Posts	304	Polished Stainless
CR15SPCBS	P6 and P7 Posts	316	Brushed Stainless
CR15SPCPS	P6 and P7 Posts	316	Polished Stainless

Minimum order: 1 each.

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CRL US ALUMINUM

CRL 1.9" Round Post Standard Fascia Mount Bracket

- For Use With 1-1/2" (38 mm) Schedule 40, 1.9" (48 mm) O.D. Stainless Steel Center and End Posts
- 316 Grade Stainless Steel

CRL WRS Round Standard Fascia Mount Brackets are designed for use with center or end posts. Four fasteners, not included, are required for mounting. A structural engineer should be consulted for proper fastener selection. **NOTE:** Not for use with thin wall tubing.

CAT. NO.	GRADE	FINISH
CR15FBBS	316	Brushed Stainless
CR15FBPS	316	Polished Stainless

Minimum order: 1 each. All Fascia Mount Brackets can be combined for quantity pricing.

2-1/4" (57 mm) 3-1/2" (89 mm) 3-1/2" (89 mm) 6-1/2" (165 mm) 7/16" (11 mm) Dia. Mounting Hole
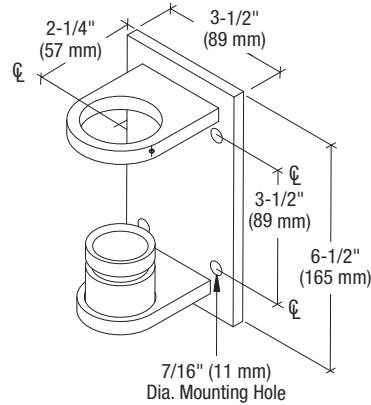
CRL 1.9" Round Post Inside Corner Fascia Mount Bracket

- For Use With 1-1/2" (38 mm) Schedule 40, 1.9" (48 mm) O.D. Stainless Steel Inside 90 Degree Corner Posts
- 316 Grade Stainless Steel

CRL WRS Round Inside Corner Fascia Mount Brackets are designed for use at inside corners of your railing, eliminating the need to double-up on the posts at the corner. Four fasteners, not included, are required for mounting. A structural engineer should be consulted for proper fastener selection. **NOTE:** Not for use with thin wall tubing.

CAT. NO.	GRADE	FINISH
CR151FBBS	316	Brushed Stainless
CR151FBPS	316	Polished Stainless

Minimum order: 1 each. All Fascia Mount Brackets can be combined for quantity pricing.

4" (102 mm) 2-1/4" (57 mm) 4" (102 mm) 2-1/4" (57 mm) 3-1/2" (89 mm) 6-1/2" (165 mm) 7/16" (11 mm) Dia. Mounting Hole
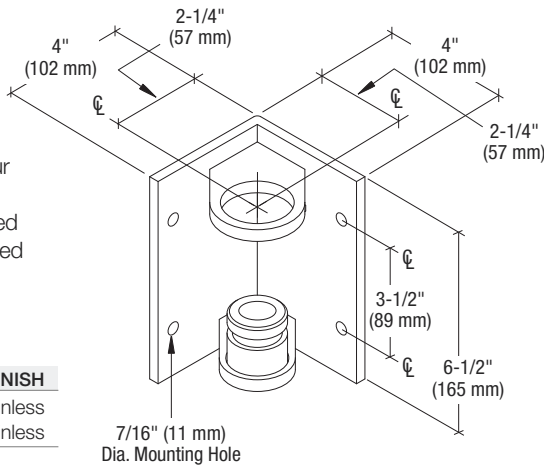
CRL 1.9" Round Post Outside Corner Fascia Mount Bracket

- For Use With 1-1/2" (38 mm) Schedule 40, 1.9" (48 mm) O.D. Stainless Steel Outside 90 Degree Corner Posts
- 316 Grade Stainless Steel

CRL WRS Round Outside Corner Fascia Mount Brackets are designed for use at outside corners of your railing, eliminating the need to double-up on the posts at the corner. Four fasteners, not included, are required for mounting. A structural engineer should be consulted for proper fastener selection. **NOTE:** Not for use with thin wall tubing.

CAT. NO.	GRADE	FINISH
CR150FBBS	316	Brushed Stainless
CR150FBPS	316	Polished Stainless

Minimum order: 1 each. All Fascia Mount Brackets can be combined for quantity pricing.

2-1/4" (57 mm) 3-11/16" (94 mm) 3-11/16" (94 mm) 2-1/4" (57 mm) 3-1/2" (89 mm) 6-1/2" (165 mm) 7/16" (11 mm) Dia. Mounting Hole

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CRL
US ALUMINUM

CRL 2" Square Post Standard Fascia Mount Bracket

- For Use With 2" (51 mm) Square, .187" (5 mm) Wall Thickness Center and End Posts
- 316 Grade Stainless Steel

CRL WRS Square Standard Fascia Mount Brackets can be used with 2" (51 mm) square center or end posts. Four fasteners, not included, are required for mounting. A structural engineer should be consulted for proper fastener selection.
NOTE: Not for use with thin wall square tubing.

CAT. NO.	GRADE	FINISH
CR2FBBS	316	Brushed Stainless
CR2FBPS	316	Polished Stainless

Minimum order: 1 each. All Fascia Mount Brackets can be combined for quantity pricing.

Dimensions: 2-1/4" (57 mm), 3-1/2" (89 mm), 3-1/2" (89 mm), 6-1/2" (165 mm), 7/16" (11 mm) Dia. Mounting Hole

CRL 2" Square Post Inside Corner Fascia Mount Bracket

- For Use With 2" (51 mm) Square, .187" (5 mm) Wall Thickness Inside 90 Degree Corner Posts
- 316 Grade Stainless Steel

CRL WRS Inside Corner Fascia Mount Brackets are designed for use at inside corners of your railing, eliminating the need to double-up on the posts at the corner. Four fasteners, not included, are required for mounting. A structural engineer should be consulted for proper fastener selection.
NOTE: Not for use with thin wall square tubing.

CAT. NO.	GRADE	FINISH
CR21FBBS	316	Brushed Stainless
CR21FBPS	316	Polished Stainless

Minimum order: 1 each. All Fascia Mount Brackets can be combined for quantity pricing.

Dimensions: 4" (102 mm), 2-1/4" (57 mm), 4" (102 mm), 2-1/4" (57 mm), 7/16" (11 mm) Dia. Mounting Hole, 3-1/2" (89 mm), 6-1/2" (165 mm)

CRL 2" Square Post Outside Corner Fascia Mount Bracket

- For Use With 2" (51 mm) Square, .187" (5 mm) Wall Thickness Outside 90 Degree Corner Posts
- 316 Grade Stainless Steel

CRL WRS Outside Corner Fascia Mount Brackets are designed for use at outside corners of your railing, eliminating the need to double-up on the posts at the corner. Four fasteners, not included, are required for mounting. A structural engineer should be consulted for proper fastener selection.
NOTE: Not for use with thin wall square tubing.

CAT. NO.	GRADE	FINISH
CR20FBBS	316	Brushed Stainless
CR20FBPS	316	Polished Stainless

Minimum order: 1 each. All Fascia Mount Brackets can be combined for quantity pricing.

Dimensions: 2-1/4" (57 mm), 3-11/16" (94 mm), 3-11/16" (94 mm), 2-1/4" (57 mm), 3-1/2" (89 mm), 6-1/2" (165 mm), 7/16" (11 mm) Dia. Mounting Hole

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CRL P-Series Vertical Adjustable Standoff Post Top

NEW!

- Supports 1-1/2" to 2" (38 to 51 mm) Diameter Hand Rail Tubing
- Ready to Install
- Patent Pending

• Two Stainless Finishes

Saddle Sold Separately (see below)

Use CRL PRS1032TC Screws for Hand Rail Attachment (sold separately see page 303B)

3/4" (19 mm) of Vertical Adjustment

Use CRL PRS1032TC Screws for Hand Rail Attachment (sold separately see page 303B)
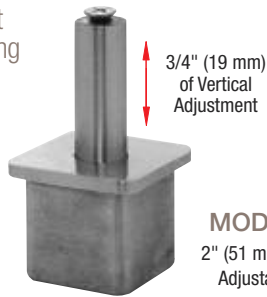
MODEL P1VF
2" (51 mm) Square Post Adjustable Post Top
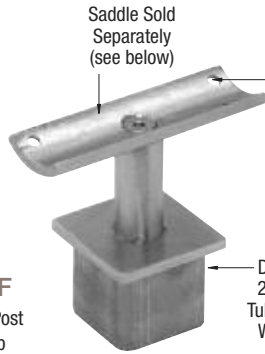
Designed to Fit 2" O.D. Square Tubing with .187" Wall Thickness

3/4" (19 mm) of Vertical Adjustment

Designed to Fit 1-1/2" Sch. 40 1.9" O.D. Pipe with .145" Wall Thickness

Saddle Sold Separately (see below)
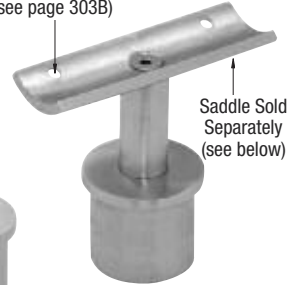
MODEL P7VF
1.9" (48 mm) Round Post Adjustable Post Top

VERTICAL ADJUSTABLE POST TOP

CAT. NO.	FITS P-SERIES POSTS	GRADE	FINISH
P1VFBS	P1	316	Brushed Stainless
P1VFPS	P1	316	Polished Stainless
P7VFBS	P6, P7	316	Brushed Stainless
P7VFPS	P6, P7	316	Polished Stainless

Minimum order: 1 each. All Post Tops can be combined for quantity pricing.

NOTE: Use Cat. No. 81120 Two Part Epoxy for a secure and permanent bond (see page 303B).

CRL P-Series Vertical Adjustable Standoff Post Top With Swivel

NEW!

- Supports 1-1/2" to 2" (38 to 51 mm) Diameter Hand Rail Tubing
- Two Stainless Finishes
- Ready to Install   • Patent Pending

• Perfect for Stair or Ramp Applications

NOTE: Use Cat. No. 81120 Two Part Epoxy for a secure and permanent bond (see page 303B).

VERTICAL ADJUSTABLE POST TOP WITH SWIVEL

CAT. NO.	FITS P-SERIES POSTS	GRADE	FINISH
P1VSBS	P1	316	Brushed Stainless
P1VSPS	P1	316	Polished Stainless
P7VSBS	P6, P7	316	Brushed Stainless
P7VSPS	P6, P7	316	Polished Stainless

Minimum order: 1 each. All Post Tops can be combined for quantity pricing.

Saddle Sold Separately (see below)

swivel

3/4" (19 mm) of Vertical Adjustment

swivel

Designed to Fit 1-1/2" Sch. 40 1.9" O.D. Pipe with .145" Wall Thickness

Designed to Fit 2" O.D. Square Tubing with .187" Wall Thickness
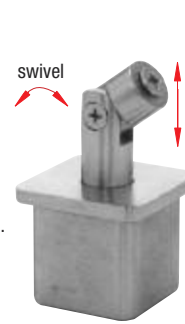
MODEL P1VS
2" (51 mm) Square Post Swivel Post Top
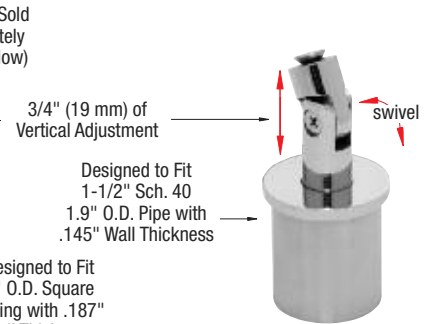
MODEL P7VS
1.9" (48 mm) Round Post Swivel Post Top

CRL P-Series Saddles

NEW!

- Works With All CRL P-Series Post Kits
- Radius and Flat Saddles in Two Finishes

4" (102 mm)
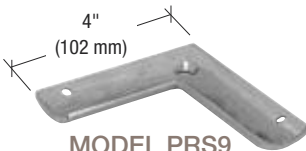
MODEL PRS9
90 Degree Radius Saddle

4" (102 mm)
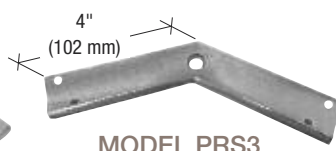
MODEL PRS3
135 Degree Radius Saddle

4" (102 mm)
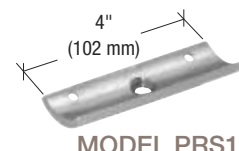
MODEL PRS1
180 Degree Radius Saddle

3-1/4" (83 mm)

MODEL PRSL1
Low Profile 180 Degree Radius Saddle

Use CRL PRS1032TC Screws for Hand Rail Attachment (sold separately see page 303B)

4" (102 mm)

MODEL PFS9
90 Degree Flat Saddle

4" (102 mm)
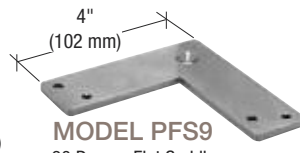
MODEL PFS3
135 Degree Flat Saddle

4" (102 mm)
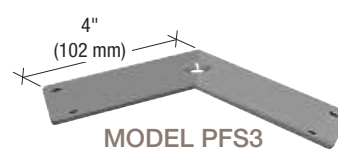
MODEL PFS1
180 Degree Flat Saddle

RADIUS SADDLES

CAT. NO.	ANGLE	GRADE	FINISH
PRS9BS	90 Degree	316	Brushed Stainless
PRS9PS	90 Degree	316	Polished Stainless
PRS3BS	135 Degree	316	Brushed Stainless
PRS3PS	135 Degree	316	Polished Stainless
PRS1BS	180 Degree	316	Brushed Stainless
PRS1PS	180 Degree	316	Polished Stainless
PRSL1BS	Low Profile 180 Degree	316	Brushed Stainless
PRSL1PS	Low Profile 180 Degree	316	Polished Stainless

Minimum order: 1 each. All Saddles can be combined for quantity pricing.

FLAT SADDLES

CAT. NO.	ANGLE	GRADE	FINISH
PFS9BS	90 Degree	316	Brushed Stainless
PFS9PS	90 Degree	316	Polished Stainless
PFS3BS	135 Degree	316	Brushed Stainless
PFS3PS	135 Degree	316	Polished Stainless
PFS1BS	180 Degree	316	Brushed Stainless
PFS1PS	180 Degree	316	Polished Stainless

Minimum order: 1 each. All Saddles can be combined for quantity pricing.

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CRL US ALUMINUM

CRL P-Series Fixed Post Top Saddles

- Supports 1-1/2" to 2" (38 to 51 mm) Diameter Hand Rail Tubing
- Designed to be Welded to Post Top, or You Can Bond Using Cat. No. 81120 Loctite® Two-Part Epoxy (See Page 303B)

- Two Stainless Finishes
- Top Radius Saddle Included

Use CRL PRS1032TC Screws for Hand Rail Attachment Sold Separately (see page 303B)

1/4"-20 x 3/4" Long Screw Included

Designed to Fit 2" O.D. Square Tubing with .187" Wall Thickness

MODEL P7FS
1.9" (48 mm) Round Post
180 Degree Fixed
Post Top Saddle

MODEL P1F9
2" (51 mm) Square Post
90 Degree Fixed
Post Top Saddle

MODEL P7F9
1.9" (48 mm) Round Post
90 Degree Fixed
Post Top Saddle

Designed to Fit 1-1/2" Sch. 40 1.9" O.D. Pipe with .145" Wall Thickness

MODEL P1FS
2" (51 mm) Square Post
180 Degree Fixed
Post Top Saddle

90 DEGREE SADDLES

CAT. NO.	FITS P-SERIES POSTS	GRADE	FINISH
P1F9BS	P1	316	Brushed Stainless
P1F9PS	P1	316	Polished Stainless
P7F9BS	P6, P7	316	Brushed Stainless
P7F9PS	P6, P7	316	Polished Stainless

Minimum order: 1 each. All Saddles can be combined for quantity pricing.

180 DEGREE SADDLES

CAT. NO.	FITS P-SERIES POSTS	GRADE	FINISH
P1FSBS	P1	316	Brushed Stainless
P1FSPS	P1	316	Polished Stainless
P7FSBS	P6, P7	316	Brushed Stainless
P7FSPS	P6, P7	316	Polished Stainless

Minimum order: 1 each. All Saddles can be combined for quantity pricing.

CRL P-Series Swivel Post Top Saddles

- Supports 1-1/2" to 2" (38 to 51 mm) Diameter Hand Rail Tubing
- Designed to be Welded to Post Top, or You Can Bond Using Cat. No. 81120 Loctite® Two-Part Epoxy (See Page 303B)

- Two Stainless Finishes
- Top Radius Saddle Included

1/4"-20 x 3/4" Long Screw Included

Use CRL PRS1032TC Screws for Hand Rail Attachment Sold Separately (see page 303B)

Designed to Fit 1-1/2" Sch. 40 1.9" O.D. Pipe with .145" Wall Thickness

MODEL P75S
1.9" (48 mm) Round Post
Swivel Post Top Saddle

Designed to Fit 2" O.D. Square Tubing with .187" Wall Thickness

MODEL P15S
2" (51 mm) Square Post
Swivel Post Top Saddle
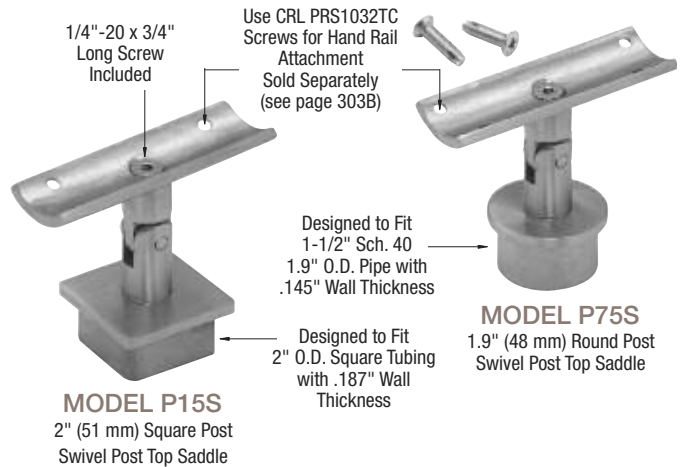
180 DEGREE SWIVEL SADDLES

CAT. NO.	FITS P-SERIES POSTS	GRADE	FINISH
P15SBS	P1	316	Brushed Stainless
P15SPS	P1	316	Polished Stainless
P75SBS	P6, P7	316	Brushed Stainless
P75SPS	P6, P7	316	Polished Stainless

Minimum order: 1 each. All Saddles can be combined for quantity pricing.

CRL P-Series Post Top Caps

- For Applications Where No Top Saddles are Required
- Ready for Installation

These P-Series Post Top Caps simply attach into the post's top once the Saddle and Vertical Stem are removed. Provides a finished look to the P-Series Post.

NEW!

Bond With Cat. No. 81120 Two-Part Epoxy (see page 303B)

Screw in Thread End

MODEL P1CAP
2" (51 mm) Square
P-Series Post Top Cap

MODEL P7CAP
1.9" (48 mm) Round
P-Series Post Top Cap
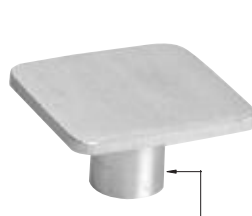
CAT. NO.	FITS P-SERIES POST	GRADE	FINISH
P1CAPBS	P1	316	Brushed Stainless
P1CAPPS	P1	316	Polished Stainless
P7CAPBS	P6, P7	316	Brushed Stainless
P7CAPPS	P6, P7	316	Polished Stainless

Minimum order: 1 each.

Loctite is a registered trademark of Henkel Corporation.

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CRL US ALUMINUM

CRL 1-1/4" Schedule 40 Top Rail

- 1.66" (42 mm) Outside Diameter Tubing Designed for Guard Rail, Hand Rail, Stairway, and Handicap Ramp Areas

.140" (3.6 mm) Wall Thickness
1.66" (42 mm)

CRL's 1-1/4" Schedule 40 Pipe Rail Tubing is formed using precision tooling to maintain uniform diameters, allowing for smooth hairline transitions at splice and end cap locations. Use our Cat. No. 7649 Primer and Cat. No. 32629 Metal Contact Cement (see page 303B) to achieve a secure and permanent bond at all connections. **NOTE**: Brushed Stainless has a hairline linear finish.

CAT. NO.	GRADE	FINISH	WALL THICKNESS	LENGTH	USE SLEEVE NO.
PR12BS10	304	Brushed Stainless	.140" (3.6 mm)	120" (3.05 m)	PR16CSS
PR12BS20	304	Brushed Stainless	.140" (3.6 mm)	240" (6.10 m)	PR16CSS
PR12PS10	304	Polished Stainless	.140" (3.6 mm)	120" (3.05 m)	PR16CSS
PR12PS20	304	Polished Stainless	.140" (3.6 mm)	240" (6.10 m)	PR16CSS

Minimum order: 1 each. All Hand Rail Tubing can be combined for quantity pricing. Must ship via common carrier.

CRL 1-1/2" Schedule 40 Top Rail

- 1.9" (48 mm) Outside Diameter Tubing Designed for Guard Rail, Hand Rail, Stairway, and Handicap Ramp Areas

.145" (3.7 mm) Wall Thickness
1.9" (48 mm)

CRL's 1-1/2" Schedule 40 Pipe Rail Tubing is formed using precision tooling to maintain uniform diameters, allowing for smooth hairline transitions at splice and end cap locations. Use our Cat. No. 7649 Primer and Cat. No. 32629 Metal Contact Cement (see page 303B) to achieve a secure and permanent bond at all connections. **NOTE**: Brushed Stainless has a hairline linear finish.

CAT. NO.	GRADE	FINISH	WALL THICKNESS	LENGTH	USE SLEEVE NO.
PR15BS10	316	Brushed Stainless	.145" (3.7 mm)	120" (3.05 m)	PR19CSS
PR15BS20	316	Brushed Stainless	.145" (3.7 mm)	240" (6.10 m)	PR19CSS
PR15PS10	316	Polished Stainless	.145" (3.7 mm)	120" (3.05 m)	PR19CSS
PR15PS20	316	Polished Stainless	.145" (3.7 mm)	240" (6.10 m)	PR19CSS

Minimum order: 1 each. All Hand Rail Tubing can be combined for quantity pricing. Must ship via common carrier.

CRL 1-1/2" O.D. Top Rail

- 1-1/2" (38 mm) O.D. Outside Diameter Tubing Designed for Guard Rail, Hand Rail, Stairway, and Handicap Ramp Areas

.125" (3.2 mm) Wall Thickness
1-1/2" (38 mm)

CRL's 1-1/2" O.D. Pipe Rail Tubing is formed using precision tooling to maintain uniform diameters and allowing for smooth hairline transitions at splice and end cap locations. Use our Cat. No. 7649 Primer and Cat. No. 32629 Metal Contact Cement (see page 303B) to achieve a secure and permanent bond at all connections. **NOTE**: Brushed Stainless has a hairline linear finish.

CAT. NO.	GRADE	FINISH	WALL THICKNESS	LENGTH	USE SLEEVE NO.
HRH15BS	304	Brushed Stainless	.125" (3.2 mm)	240" (6.10 m)	HRH15CSS
HRH15PS	304	Polished Stainless	.125" (3.2 mm)	240" (6.10 m)	HRH15CSS

Minimum order: 1 each. All Hand Rail Tubing can be combined for quantity pricing. Must ship via common carrier.

CRL Top Rail Splice Connector Sleeves

- Shaped to Fit and Ready to Install in Pipe Railings
- Provides Proper Alignment Between Railing Splices

CRL Pipe Rail Splice Connector Sleeves are used to connect and provide proper alignment between railing splice locations. Use our Cat. No. 7649 Primer and Cat. No. 32629 Metal Contact Cement (see page 303B) to achieve a secure and permanent bond at all connections.

Important Installation Note: Always Use Connector Sleeves Made of the Same Metal as the Cap Rail, Cap Rail Corner, or Hand Rail Metal. See Page 354B for Mechanical Seam Joint Information.

CAT. NO. PR16CSS — 5" (127 mm)

CAT. NO. PR19CSS — 5" (127 mm)

CAT. NO. HRH15CSS — 5" (127 mm)

CAT. NO.	MATERIAL	FOR USE WITH
PR16CSS	Stainless Steel	1-1/4" Sch. 40 1.66" (42 mm) Tubing
PR19CSS	Stainless Steel	1-1/2" Sch. 40 1.9" (48 mm) Tubing
HRH15CSS	Stainless Steel	1-1/2" (38 mm) O.D. Tubing

Minimum order: 1 each. All Splice Connectors can be combined for quantity pricing.

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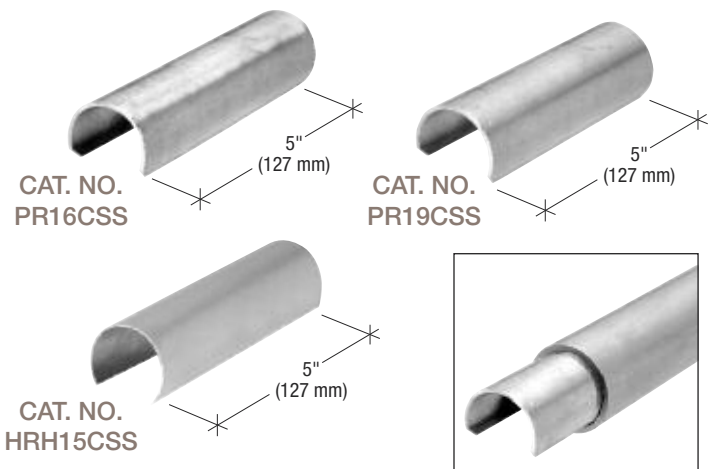
CRL Top Rail Fabricated Corners

- Ready to Install
- 304 Grade Stainless Welded and Finished
- Requires Two Connector Sleeves (Not Included)
- Three Sizes in Two Architectural Finishes
- Custom Angle Corners Available on Request

Interior Slip-Fit Pipe Rail Tubing Corners allow for hairline joint assemblies with straight lengths of CRL Top Rail. Use of Cat. No. 7649 Primer and Cat. No. 32629 Metal Contact Cement (see page 303B) is required to achieve a secure and permanent bond. Two Connector Sleeves are required for use with each Corner (see page 301B). **NOTE:** Brushed Stainless has a hairline linear finish.
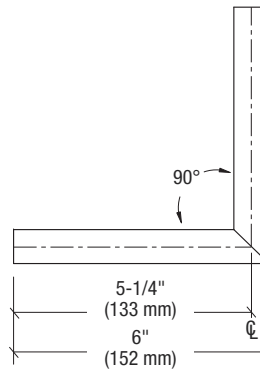
90 Degree Corners

135 Degree Corners

1-1/4" SCHEDULE 40 FABRICATED CORNERS

CAT. NO.	CORNER ANGLE	GRADE	FINISH	USE SLEEVE NO.
PR12HBS	90 Degree	304	Brushed Stainless	PR16CSS
PR12HPS	90 Degree	304	Polished Stainless	PR16CSS
PR12H3BS	135 Degree	304	Brushed Stainless	PR16CSS
PR12H3PS	135 Degree	304	Polished Stainless	PR16CSS
PR12540BS	Custom	304	Brushed Stainless	PR16CSS
PR12540PS	Custom	304	Polished Stainless	PR16CSS

Minimum order: 1 each. All Hand Rail Fittings can be combined for quantity pricing.

1-1/2" SCHEDULE 40 FABRICATED CORNERS

CAT. NO.	CORNER ANGLE	GRADE	FINISH	USE SLEEVE NO.
PR15HBS	90 Degree	304	Brushed Stainless	PR19CSS
PR15HPS	90 Degree	304	Polished Stainless	PR19CSS
PR15H3BS	135 Degree	304	Brushed Stainless	PR19CSS
PR15H3PS	135 Degree	304	Polished Stainless	PR19CSS
PR1540BS	Custom	304	Brushed Stainless	PR19CSS
PR1540PS	Custom	304	Polished Stainless	PR19CSS

Minimum order: 1 each. All Hand Rail Fittings can be combined for quantity pricing.

1-1/2" O.D. FABRICATED CORNERS

CAT. NO.	CORNER ANGLE	GRADE	FINISH	USE SLEEVE NO.
HRH15HBS	90 Degree	304	Brushed Stainless	HRH15CSS
HRH15HPS	90 Degree	304	Polished Stainless	HRH15CSS
HRH15H3BS	135 Degree	304	Brushed Stainless	HRH15CSS
HRH15H3PS	135 Degree	304	Polished Stainless	HRH15CSS
HRH15BSC	Custom	304	Brushed Stainless	HRH15CSS
HRH15PSC	Custom	304	Polished Stainless	HRH15CSS

Minimum order: 1 each. All Hand Rail Fittings can be combined for quantity pricing.

CRL End Caps for Top Rails

- 304 Grade Stainless
- Ready to Install
- Custom End Caps are Also Available

CRL End Caps easily slip into our Schedule 40 and Square Top Rails for a finished look. Use of our Cat. No. 7649 Primer and Cat. No. 32629 Metal Contact Cement (see page 303B) is required to achieve a secure and permanent bond at all connections.

PR12EC   PR15EC   HRH15EC

FOR 1-1/4" SCHEDULE 40 TOP RAIL 1.66" (42 MM) O.D.

CAT. NO.	FINISH	FITS TOP RAIL NO.
PR12ECBS	Brushed Stainless	PR12BS
PR12ECPS	Polished Stainless	PR12PS

Minimum order: 1 each. All Railing End Caps can be combined for quantity pricing.

FOR 1-1/2" SCHEDULE 40 TOP RAIL 1.9" (48 MM) O.D.

CAT. NO.	FINISH	FITS TOP RAIL NO.
PR15ECBS	Brushed Stainless	PR15BS
PR15ECPS	Polished Stainless	PR15PS

Minimum order: 1 each. All Railing End Caps can be combined for quantity pricing.

FOR 1-1/2" (38 MM) O.D. TOP RAIL

CAT. NO.	FINISH	FITS TOP RAIL NO.
HRH15ECBS	Brushed Stainless	HRH15BS
HRH15ECPS	Polished Stainless	HRH15PS

Minimum order: 1 each. All Railing End Caps can be combined for quantity pricing.

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post-railing   Search   302B

TOLL Phone: (800) 421-6144
FREE Fax: (800) 262-3299
From Anywhere in the U.S. or Canada

CRL US ALUMINUM

CRL Loctite® Metal Contact Cement

- Permanently Bonds Cap Rails, Hand Rails, and Their Accessories With Superior Holding Power Up to 4,900 psi
- Offers Handling Strength in 60 Seconds, Full Cure in 24 Hours

SPEC. DATA ONLINE

SDS ONLINE

CAT. NO. 32629
Contact Cement

CAT. NO. 7649*
60 Second Primer

CAT. NO. 7075*
5 Minute Primer

To permananetly bond Rails and their accessories we suggest this strong adhesive system from Loctite®, with a choice of two different Primers to best suit your assembly time frame.

CAT. NO.	DESCRIPTION	ACTIVATION	CONTENTS
32629	Metal Contact Cement	---	1.69 Fl. Oz. (50 ml)
7649	Primer for Metal Contact Cement	60 Seconds	1.75 Fl. Oz. (52 ml)
7075	Primer for Metal Contact Cement	5 Minutes	4.5 Oz. (128 g)

Minimum order: 1 each. *No Air Shipment.

CRL Loctite® Poxy-Pak™ Clear Two-Part Epoxy

- Pre-Measured Resin and Hardener for Easy Application, Consistent Strength
- Resealable - No Waste
- Bonds Virtually Any Material

SPEC. DATA ONLINE

SDS ONLINE

CRL Loctite® Poxy-Pak™ Clear Adhesive is a rapid cure two-part epoxy that reaches handling strength in about five minutes, and fully cures in 45 to 60 minutes. Poxy-Pak™ is easily dispensed from the two-cylinder syringe in any amount you need. It bonds metals, ceramics, concrete, wood, glass, and most plastics. It's inexpensive to use, as the unused portion can be re-sealed and saved. May be drilled, tapped, sanded, machined, and painted after it cures. Poxy-Pak™ cures at room temperature, and can withstand temperatures up to 300°F (149°C).

CAT. NO.	CONTENTS
81120	1 Fl. Oz. (29 ml)

Minimum order: 1 each.

CRL P-Series Post Top Rail Installation Kit

- Use for Installing Top Rails on P-Series Posts

Kit Includes:

(1) Automatic Center Punch
Cat. No. G78

(1) Drill Bit Holder
Cat. No. DBH1

(2) TICN Coated 10-32 Tap
Cat. No. T1032TC

(2) #21 TICN Coated Drill Bit
Cat. No. SLD21

(1) Tube Wax
Cat. No. WS140

(1) Tap Wrench
Cat. No. TR1E
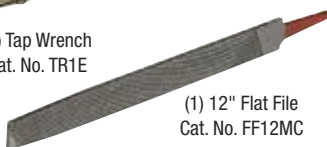
(1) 12" Flat File
Cat. No. FF12MC

(2) 6" Quick Grip Bar Clamp
Cat. No. 506QC

The CRL P-Series Post Top Rail Installation Kit is a valuable tool for drilling and tapping the underside of Schedule 40 Top Rail Tubing prior to attachment to P-Series Top Saddle Posts. Kit Includes: one Automatic Center Punch, two TICN Coated Drill Bits, one Drill Bit Holder, one Tube Wax, two TICN Coated High Speed 10-32 Machine Taps, one Tap Wrench, one Flat File, two Quick Grip Bar Clamps, and a set of instructions. Minimum order is one kit.

CAT. NO. PS1K

Loctite is a registered trademark of Henkel Corporation.

CRL Top Rail Connecting Screw

- Use for Attaching Top Rails or Hand Rails to CRL P-Series Posts
- 304 Grade Stainless Steel

Flat Undercut

Phillips

Thread Cutting

These CRL Stainless Steel Flat Head Undercut Phillips Screws are used for attaching the top rail to the saddle of P-Series Post Kits. They are a 10-32 thread and measure 3/4" (19 mm) long. 50 screws per pack. Minimum order is one pack.

CAT. NO. PRS1032TC

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CRL US ALUMINUM

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CRL Stainless Steel Bolt Cover Buttons

NEW!

- Brushed and Polished Stainless Steel Finishes Available
- Threaded Washer Included
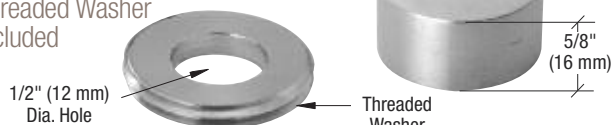
1-3/16" (30 mm)

5/8" (16 mm)

1/2" (12 mm) Dia. Hole

Threaded Washer

CRL Stainless Steel Bolt Cover Buttons are designed to cover up exposed concrete anchors and lag bolts on vertical post base plates. Stainless Steel Buttons screw onto provided stainless steel washers to create a finished look. Threaded Cap has 7/16" (11 mm) internal height clearance.

CAT. NO.	GRADE	FINISH
BTN1BS	316	Brushed Stainless
BTN1PS	316	Polished Stainless

Minimum order: 1 each. All Bolt Cover Buttons can be combined for quantity pricing.

CRL P7 Post Drill Jig

NEW!

- For Aligning 5/16" Diameter Holes Prior to Drilling
- Eliminates Guess Work
- Drill Holes Quickly and Accurately

The CRL P7 Post Drill Jig is designed for use on our P-Series Blank P7 Posts. The precision made Jig fits onto the vertical post providing a template to accurately drill 5/16" diameter holes for 3/8"-16 Tap. Minimum order is one each. **NOTE**: See page 555B for Cat. No. SLD516 Tin Coated 5/16" Drill Bit and Cat. No. 153816 3/8"-16 NC Tap.

CAT. NO. P7J1G

Hilti® KWIK HUS-EZ Screw Anchor

- Used With CRL P-Series Posts
- Meets Guard Rail Codes for Load Requirements
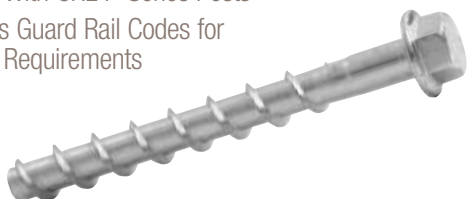
Hilti® KWIK HUS-EZ Screw Anchors achieve their load capacity by the thread undercutting the base material. They can be applied in 3,000 to 8,500 psi concrete to achieve maximum clamping torque to the Base Plate. Anchors are 2003, 2006, 2009, and 2012 IBC Compliant. Minimum order is 50 each. Must be ordered in increments of 50.

CAT. NO. WBA38X4

Hilti® M8 3-3/4" Long HSL-3 Expansion Anchor

- Approved for Use With P-Series Post Systems
- Delivers Optimum Performance in Concrete

The Hilti® HSL-3 is a 2006, 2009, and 2012 IBC compliant, torque controlled, heavy-duty Expansion Bolt designed for high performance in static and dynamic load applications. Delivers optimum performance in cracked concrete. 3-3/4" (95 mm) long. Minimum order is 10 each. Must be ordered in increments of 10.

CAT. NO. EBA334

CRL Lag Bolts

- Ideal for Attaching Vertical Posts to a Wooden Substrate
- 304 Grade Stainless Steel

CAT. NO. LB350
3/8" x 3-1/2" (89 mm) Long

CAT. NO. LB600
3/8" x 6" (152 mm) Long

Stainless Steel Lag Bolts are perfect for attaching Vertical Post Kits to a wooden substrate. Use them with Cat. No. BTN1BS or BTN1PS Stainless Steel Bolt Cover Buttons to create a beautiful finished look (see above). Minimum order is 20 each. Must be ordered in increments of 20.

Hilti is a registered trademark of Hilti Aktiengesellschaft Corporation.

Hilti® KWIK Bolt TZ Concrete Anchors

- Carbon Steel and 304 Grade Stainless Steel Available

Hilti® KWIK Bolt TZ is a 2006, 2009, and 2012 IBC Compliant, torque controlled, heavy-duty expansion bolt designed for high performance in static and dynamic load applications. **NOTE:** Carbon Steel Anchor is recommended for interior installations only.

CAT. NO.	DESCRIPTION	APPLICATION	SIZE
CA38X334SS	304 Stainless Steel Anchor	Exterior	3/8" x 3-3/4" (95 mm)
CA38X334	Carbon Steel Anchor	Interior	3/8" x 3-3/4" (95 mm)

Minimum order: 50 each. Must be ordered in increments of 50.

TOLL Phone: (800) 421-6144
FREE Fax: (800) 262-3299
From Anywhere in the U.S. or Canada

CRL US ALUMINUM

System: Custom P3 Series Stainless Steel Post Railing

USE MONOLITHIC TEMPERED GLASS

System: P3 Series Stainless Steel Railing With 1-1/2" (38 mm) Hand Rail

System: Custom P3 Series Stainless Steel Post Railing

System: Custom P5 Series Stainless Steel Post Railing

System: P7 Series Stainless Steel Post Railing With 1-1/2" (38 mm) Top Cap

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TOLL Phone: (800) 421-6144
FREE   Fax: (800) 262-3299
From Anywhere in the U.S. or Canada

CRL US ALUMINUM

CRL Z-Series Round Type Radius Base Glass Clamps

SPECIFICATIONS:

Glass Thickness: Models for 1/4" to 1/2"
(6 to 12 mm) Tempered Glass, and 9/16"
(13.52 mm) Laminated Tempered Glass.
Base Design: Radius.
For Use With: 1-1/2" or 2" (38 or 51 mm)
Diameter Round Tubing.
Material: Choice of Zinc Constructed or 316 Grade
Stainless Steel. Stainless Steel or Powder Painted
Zinc Clamps are recommended for more durability
in exterior applications.

Glass Fabrication:
One finger notch per clamp is required on each vertical
edge of the glass if using provided steel pin. Visit
crlaurence.com for Glass Fabrication Templates.
Note: Using the provided Pin will prevent glass slippage
if there is no bottom support beneath the glass.
Includes: Rubber Gaskets and Steel Pin
(for optional use) with Grommet.

CAT. NO. ZBOLT
Fastener for Use
With Metal Posts

CAT. NO. ZLAG
Fastener for Use
With Wood Posts

USE MONOLITHIC TEMPERED GLASS or **USE LAMINATED TEMPERED GLASS**

Models for Round Tubing Installations

For 1/4" and 5/16" (6 and 8 mm) Glass

Base View | Front View | Rear View | Side View

15/16" (24 mm) · 2-1/8" (54 mm) · 2-1/4" (57 mm) · 3/4" (19 mm) · 23/32" (18 mm)
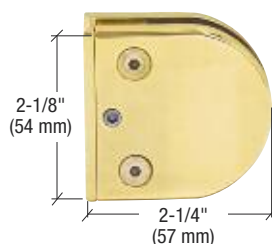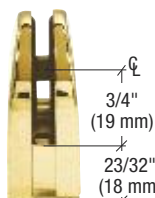
CAT. NO.	FINISH	TUBE DIA.	BASE METAL
Z206BR	Polished Brass	2" (51 mm)	Zinc Casting
Z206CH	Polished Chrome	2" (51 mm)	Zinc Casting
Z206SC	Satin Chrome	2" (51 mm)	Zinc Casting
Z206BN	Brushed Nickel	2" (51 mm)	Zinc Casting
Z206GP	Gold Plated	2" (51 mm)	Zinc Casting
Z206W	White	2" (51 mm)	Zinc Casting
Z306BS	Brushed Stainless	2" (51 mm)	316 Stainless Steel
Z306PS	Polished Stainless	2" (51 mm)	316 Stainless Steel
Z15306BS	Brushed Stainless	1-1/2" (38 mm)	316 Stainless Steel
Z15306PS	Polished Stainless	1-1/2" (38 mm)	316 Stainless Steel
Z14RG	Replacement Gasket Set for One Clamp		

Minimum order for Clamps: 1 each. Minimum order for Gasket Sets: 1 pack.
All Z-Series Clamps can be combined for quantity pricing.

For 3/8" (10 mm) Glass

Base View | Front View | Rear View | Side View

1-3/32" (28 mm) · 2-1/8" (54 mm) · 2-9/32" (58 mm) · 3/4" (19 mm) · 23/32" (18 mm)
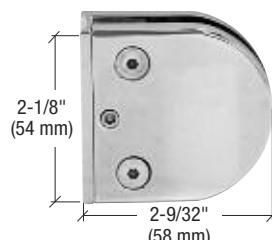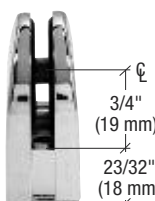
CAT. NO.	FINISH	TUBE DIA.	BASE METAL
Z210BR	Polished Brass	2" (51 mm)	Zinc Casting
Z210CH	Polished Chrome	2" (51 mm)	Zinc Casting
Z210SC	Satin Chrome	2" (51 mm)	Zinc Casting
Z210BN	Brushed Nickel	2" (51 mm)	Zinc Casting
Z210GP	Gold Plated	2" (51 mm)	Zinc Casting
Z210W	White	2" (51 mm)	Zinc Casting
Z310BS	Brushed Stainless	2" (51 mm)	316 Stainless Steel
Z310PS	Polished Stainless	2" (51 mm)	316 Stainless Steel
Z15310BS	Brushed Stainless	1-1/2" (38 mm)	316 Stainless Steel
Z15310PS	Polished Stainless	1-1/2" (38 mm)	316 Stainless Steel
Z38RG	Replacement Gasket Set for One Clamp		

Minimum order for Clamps: 1 each. Minimum order for Gasket Sets: 1 pack.
All Z-Series Clamps can be combined for quantity pricing.

For 1/2" and 9/16" (12 and 13.52 mm) Glass

Front View | Rear View | Side View

1-7/32" (31 mm) · 2-1/8" (54 mm) · 2-17/32" (64 mm) · 1-1/32" (26 mm) · 23/32" (18 mm)
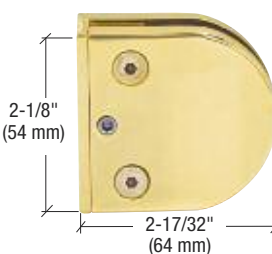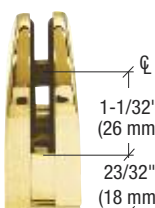
CAT. NO.	FINISH	TUBE DIA.	BASE METAL
Z212BR	Polished Brass	2" (51 mm)	Zinc Casting
Z212CH	Polished Chrome	2" (51 mm)	Zinc Casting
Z212SC	Satin Chrome	2" (51 mm)	Zinc Casting
Z212BN	Brushed Nickel	2" (51 mm)	Zinc Casting
Z212W	White	2" (51 mm)	Zinc Casting
Z312BS	Brushed Stainless	2" (51 mm)	316 Stainless Steel
Z312PS	Polished Stainless	2" (51 mm)	316 Stainless Steel
Z15312BS	Brushed Stainless	1-1/2" (38 mm)	316 Stainless Steel
Z15312PS	Polished Stainless	1-1/2" (38 mm)	316 Stainless Steel
Z12RG	Replacement Gasket Set for One Clamp		

Minimum order for Clamps: 1 each. Minimum order for Gasket Sets: 1 pack.
All Z-Series Clamps can be combined for quantity pricing.

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FREE   Fax: (800) 262-3299
From Anywhere in the U.S. or Canada

CRL US ALUMINUM

CRL Z-Series Round Type Flat Base Glass Clamps

SPECIFICATIONS:

Glass Thickness: Models for 1/4" to 1/2"
(6 to 12 mm) Tempered Glass, and 9/16"
(13.52 mm) Laminated Tempered Glass.

Base Design: Flat.

For Use With: Square Tubing or Other Flat Surfaces.

Material: Choice of Zinc Constructed or 316 Grade
Stainless Steel. Stainless Steel or Powder Painted
Zinc Clamps are recommended for more durability
in exterior applications.

Glass Fabrication:
One finger notch is required per clamp on each vertical
edge of the glass if using provided Steel Pin. Visit
crlaurence.com for Glass Fabrication Templates.

Note: Using the provided Pin will prevent glass slippage
if there is no bottom support beneath the glass.

Includes: Rubber Gaskets and Steel Pin
(for optional use) with Grommet.

CAT. NO. ZBOLT
Fastener for Use
With Metal Posts

CAT. NO. ZLAG
Fastener for Use
With Wood Posts

USE MONOLITHIC TEMPERED GLASS
or
USE LAMINATED TEMPERED GLASS
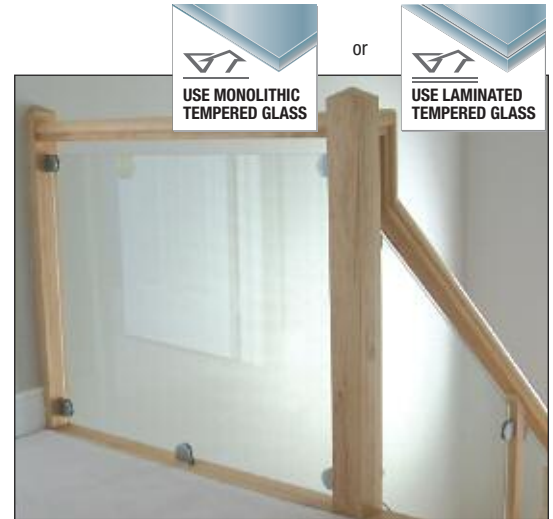
Models for Flat Surface Installations

For 1/4" and 5/16" (6 and 8 mm) Glass

Base View — 15/16" (24 mm)

Front View
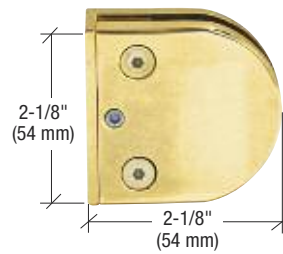
Rear View — 2-1/8" (54 mm), 2-1/8" (54 mm)
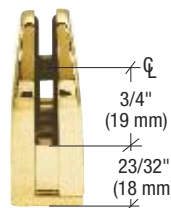
Side View — 3/4" (19 mm), 23/32" (18 mm)

CAT. NO.	FINISH	BASE METAL
Z406BR	Polished Brass	Zinc Casting
Z406CH	Polished Chrome	Zinc Casting
Z406SC	Satin Chrome	Zinc Casting
Z406BN	Brushed Nickel	Zinc Casting
Z406GP	Gold Plated	Zinc Casting
Z406W	White	Zinc Casting
Z506BS	Brushed Stainless	316 Grade Stainless Steel
Z506PS	Polished Stainless	316 Grade Stainless Steel
Z14RG	Replacement Gasket Set for One Clamp	

Minimum order for Clamps: 1 each. Minimum order for Gasket Sets: 1 pack.
All Z-Series Clamps can be combined for quantity pricing.

For 3/8" (10 mm) Glass

Base View — 1-3/32" (28 mm)

Front View
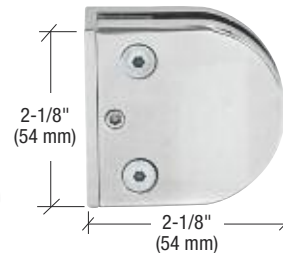
Rear View — 2-1/8" (54 mm), 2-1/8" (54 mm)
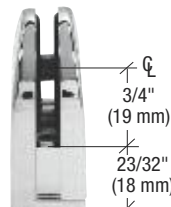
Side View — 3/4" (19 mm), 23/32" (18 mm)

CAT. NO.	FINISH	BASE METAL
Z410BR	Polished Brass	Zinc Casting
Z410CH	Polished Chrome	Zinc Casting
Z410SC	Satin Chrome	Zinc Casting
Z410BN	Brushed Nickel	Zinc Casting
Z410GP	Gold Plated	Zinc Casting
Z410W	White	Zinc Casting
Z510BS	Brushed Stainless	316 Grade Stainless Steel
Z510PS	Polished Stainless	316 Grade Stainless Steel
Z38RG	Replacement Gasket Set for One Clamp	

Minimum order for Clamps: 1 each. Minimum order for Gasket Sets: 1 pack.
All Z-Series Clamps can be combined for quantity pricing.

For 1/2" and 9/16" (12 and 13.52 mm) Glass

Base View — 1-7/32" (31 mm)

Front View
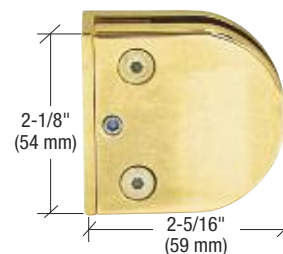
Rear View — 2-1/8" (54 mm), 2-5/16" (59 mm)
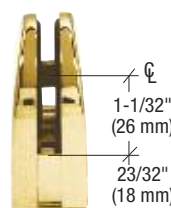
Side View — 1-1/32" (26 mm), 23/32" (18 mm)

CAT. NO.	FINISH	BASE METAL
Z412BR	Polished Brass	Zinc Casting
Z412CH	Polished Chrome	Zinc Casting
Z412SC	Satin Chrome	Zinc Casting
Z412BN	Brushed Nickel	Zinc Casting
Z412GP	Gold Plated	Zinc Casting
Z412W	White	Zinc Casting
Z512BS	Brushed Stainless	316 Grade Stainless Steel
Z512PS	Polished Stainless	316 Grade Stainless Steel
Z12RG	Replacement Gasket Set for One Clamp	

Minimum order for Clamps: 1 each. Minimum order for Gasket Sets: 1 pack.
All Z-Series Clamps can be combined for quantity pricing.

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CRL US ALUMINUM

CRL Z-Series Square Type Radius Base Glass Clamps

For 1/4" and 5/16" (6 and 8 mm) Glass

• Radius Base for Use With 2" (51 mm) Diameter Round Tubing

USE MONOLITHIC TEMPERED GLASS   or   USE LAMINATED TEMPERED GLASS
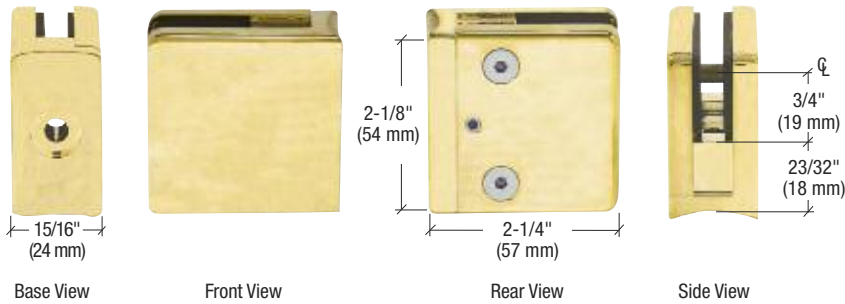
CAT. NO.	FINISH	BASE METAL
Z606BR	Polished Brass	Zinc Casting
Z606CH	Polished Chrome	Zinc Casting
Z606SC	Satin Chrome	Zinc Casting
Z606BN	Brushed Nickel	Zinc Casting
Z606GP	Gold Plated	Zinc Casting
Z606W	White	Zinc Casting
Z706BS	Brushed Stainless	316 Grade Stainless Steel
Z706PS	Polished Stainless	316 Grade Stainless Steel
Z14SG	Replacement Gasket Set for One Clamp	

Minimum order for Clamps: 1 each. Minimum order for Gaskets: 1 pack.
All Z-Series Clamps can be combined for quantity pricing.

Base View — 15/16" (24 mm)
Front View
Rear View — 2-1/8" (54 mm), 2-1/4" (57 mm)
Side View — 3/4" (19 mm), 23/32" (18 mm)

For 3/8" (10 mm) Glass
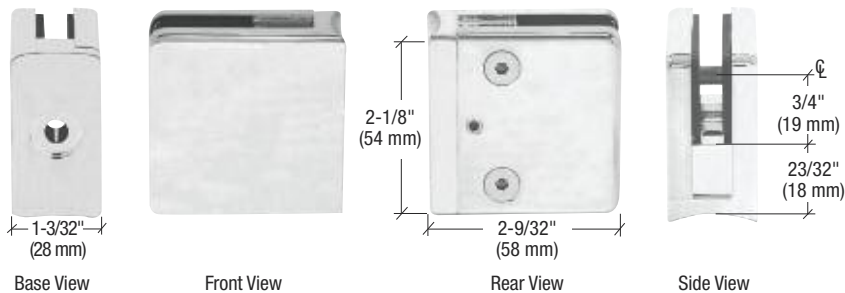
CAT. NO.	FINISH	BASE METAL
Z610BR	Polished Brass	Zinc Casting
Z610CH	Polished Chrome	Zinc Casting
Z610SC	Satin Chrome	Zinc Casting
Z610BN	Brushed Nickel	Zinc Casting
Z610GP	Gold Plated	Zinc Casting
Z610W	White	Zinc Casting
Z710BS	Brushed Stainless	316 Grade Stainless Steel
Z710PS	Polished Stainless	316 Grade Stainless Steel
Z38SG	Replacement Gasket Set for One Clamp	

Minimum order for Clamps: 1 each. Minimum order for Gaskets: 1 pack.
All Z-Series Clamps can be combined for quantity pricing.

Base View — 1-3/32" (28 mm)
Front View
Rear View — 2-1/8" (54 mm), 2-9/32" (58 mm)
Side View — 3/4" (19 mm), 23/32" (18 mm)

For 1/2" and 9/16" (12 and 13.52 mm) Glass
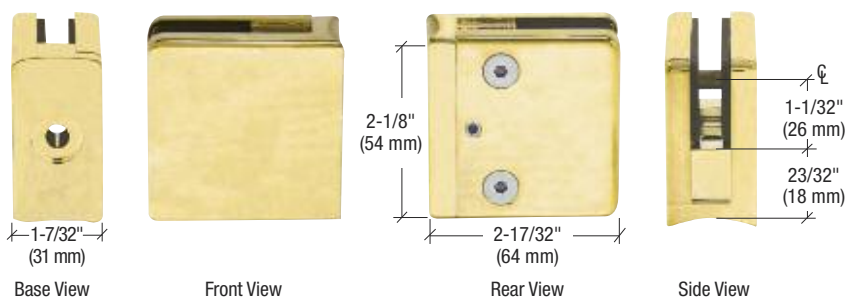
CAT. NO.	FINISH	BASE METAL
Z612BR	Polished Brass	Zinc Casting
Z612CH	Polished Chrome	Zinc Casting
Z612SC	Satin Chrome	Zinc Casting
Z612BN	Brushed Nickel	Zinc Casting
Z612GP	Gold Plated	Zinc Casting
Z612W	White	Zinc Casting
Z712BS	Brushed Stainless	316 Grade Stainless Steel
Z712PS	Polished Stainless	316 Grade Stainless Steel
Z12SG	Replacement Gasket Set for One Clamp	

Minimum order for Clamps: 1 each. Minimum order for Gaskets: 1 pack.
All Z-Series Clamps can be combined for quantity pricing.

Base View — 1-7/32" (31 mm)
Front View
Rear View — 2-1/8" (54 mm), 2-17/32" (64 mm)
Side View — 1-1/32" (26 mm), 23/32" (18 mm)

For 3/8", 1/2", and 9/16" (10, 12, and 13.52 mm) Glass
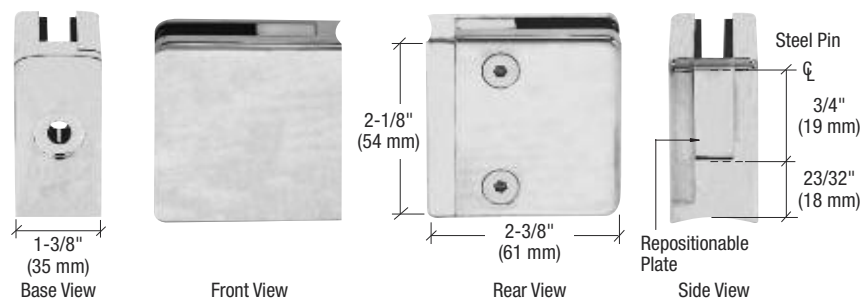
• Repositionable Plate for Use at Right or Left Bottom Corner of Glass

CAT. NO.	FINISH	BASE METAL
ZL610CH	Polished Chrome	Zinc Casting
ZL610SC	Satin Chrome	Zinc Casting
ZL610BN	Brushed Nickel	Zinc Casting
ZL610W	White	Zinc Casting
ZL710BS	Brushed Stainless	316 Grade Stainless Steel
ZL710PS	Polished Stainless	316 Grade Stainless Steel
ZL38SG	Replacement Gasket Set for One Clamp	

Minimum order for Clamps: 1 each. Minimum order for Gaskets: 1 pack.
All Z-Series Clamps can be combined for quantity pricing.

Base View — 1-3/8" (35 mm)
Front View
Rear View — 2-1/8" (54 mm), 2-3/8" (61 mm)
Side View — Steel Pin, 3/4" (19 mm), 23/32" (18 mm), Repositionable Plate

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TOLL Phone: (800) 421-6144
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From Anywhere in the U.S. or Canada

CRL US ALUMINUM

CRL Z-Series Square Type Flat Base Glass Clamps

For 1/4" and 5/16" (6 and 8 mm) Glass

• Flat Base for Use With Square Tubing or Other Flat Surfaces

USE MONOLITHIC TEMPERED GLASS   or   USE LAMINATED TEMPERED GLASS

2-1/8" (54 mm)

3/4" (19 mm)
23/32" (18 mm)

15/16" (24 mm)

2-1/8" (54 mm)

Base View   Front View   Rear View   Side View
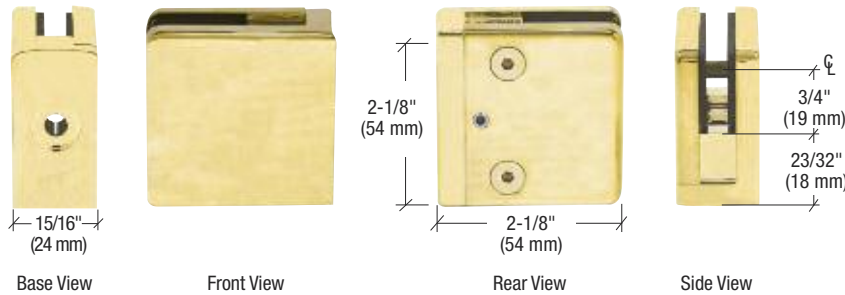
CAT. NO.	FINISH	BASE METAL
Z806BR	Polished Brass	Zinc Casting
Z806CH	Polished Chrome	Zinc Casting
Z806SC	Satin Chrome	Zinc Casting
Z806BN	Brushed Nickel	Zinc Casting
Z806GP	Gold Plated	Zinc Casting
Z806W	White	Zinc Casting
Z906BS	Brushed Stainless	316 Grade Stainless Steel
Z906PS	Polished Stainless	316 Grade Stainless Steel
Z14SG	Replacement Gasket Set for One Clamp	

Minimum order for Clamps: 1 each. Minimum order for Gaskets: 1 pack.
All Z-Series Clamps can be combined for quantity pricing.

For 3/8" (10 mm) Glass

2-1/8" (54 mm)

3/4" (19 mm)
23/32" (18 mm)

1-3/32" (28 mm)

2-1/8" (54 mm)

Base View   Front View   Rear View   Side View
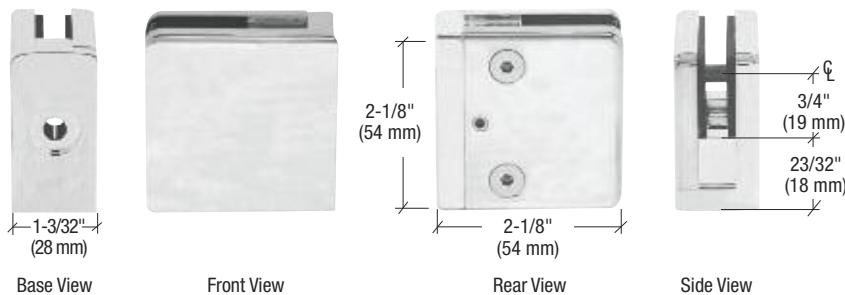
CAT. NO.	FINISH	BASE METAL
Z810BR	Polished Brass	Zinc Casting
Z810CH	Polished Chrome	Zinc Casting
Z810SC	Satin Chrome	Zinc Casting
Z810BN	Brushed Nickel	Zinc Casting
Z810GP	Gold Plated	Zinc Casting
Z810W	White	Zinc Casting
Z910BS	Brushed Stainless	316 Grade Stainless Steel
Z910PS	Polished Stainless	316 Grade Stainless Steel
Z38SG	Replacement Gasket Set for One Clamp	

Minimum order for Clamps: 1 each. Minimum order for Gaskets: 1 pack.
All Z-Series Clamps can be combined for quantity pricing.

For 1/2" and 9/16" (12 and 13.52 mm) Glass

2-1/8" (54 mm)

1-1/32" (26 mm)
23/32" (18 mm)

1-7/32" (31 mm)

2-5/16" (59 mm)

Base View   Front View   Rear View   Side View
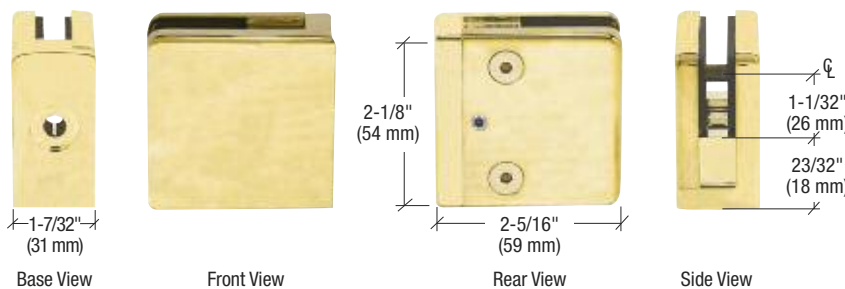
CAT. NO.	FINISH	BASE METAL
Z812BR	Polished Brass	Zinc Casting
Z812CH	Polished Chrome	Zinc Casting
Z812SC	Satin Chrome	Zinc Casting
Z812BN	Brushed Nickel	Zinc Casting
Z812GP	Gold Plated	Zinc Casting
Z812W	White	Zinc Casting
Z912BS	Brushed Stainless	316 Grade Stainless Steel
Z912PS	Polished Stainless	316 Grade Stainless Steel
Z12SG	Replacement Gasket Set for One Clamp	

Minimum order for Clamps: 1 each. Minimum order for Gaskets: 1 pack.
All Z-Series Clamps can be combined for quantity pricing.

For 3/8", 1/2", and 9/16" (10, 12, and 13.52 mm) Glass
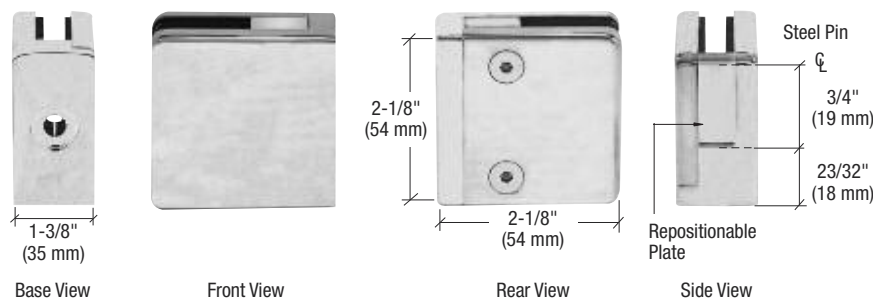
• Repositionable Plate for Use at Right or Left Bottom Corner of Glass

2-1/8" (54 mm)

Steel Pin

3/4" (19 mm)
23/32" (18 mm)

1-3/8" (35 mm)

2-1/8" (54 mm)

Repositionable Plate

Base View   Front View   Rear View   Side View

CAT. NO.	FINISH	BASE METAL
ZL810CH	Polished Chrome	Zinc Casting
ZL810SC	Satin Chrome	Zinc Casting
ZL810BN	Brushed Nickel	Zinc Casting
ZL810W	White	Zinc Casting
ZL910BS	Brushed Stainless	316 Grade Stainless Steel
ZL910PS	Polished Stainless	316 Grade Stainless Steel
ZL38SG	Replacement Gasket Set for One Clamp	

Minimum order for Clamps: 1 each. Minimum order for Gaskets: 1 pack.
All Z-Series Clamps can be combined for quantity pricing.

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CRL US ALUMINUM

CRL GLASS RAILING CLAMPS

CRL Z-Series Square Type Monolithic Tempered and Laminated Tempered Glass Clamps

SPECIFICATIONS:

Glass Thickness: 5/8" and 3/4" (16 and 19 mm) Monolithic Tempered. 11/16" and 27/32" (17.52 and 21.52 mm) Laminated Tempered.

Base Design: Flat or Radius.

For Use With: Square Tubing or Other Flat Surfaces and 2" (51 mm) Diameter Round Tubing.

Material: 316 Grade Stainless Steel.

Glass Fabrication: One 7/8" (22 mm) diameter finger notch per Clamp is required. The included steel pin must be used for both 5/8" and 3/4" (16 and 19 mm) glass applications.

Includes: Rubber Gaskets for 3/4" (19 mm) Glass and Steel Pin. * Cat. No. Z58SG Gaskets must be ordered when using 5/8" (16 mm) Glass.

USE MONOLITHIC TEMPERED GLASS

or

USE LAMINATED TEMPERED GLASS

CAT. NO. ZBOLT
Cap Bolt for Use With Metal Posts

CAT. NO. ZLAG
Lag Bolt for Use With Wood Posts
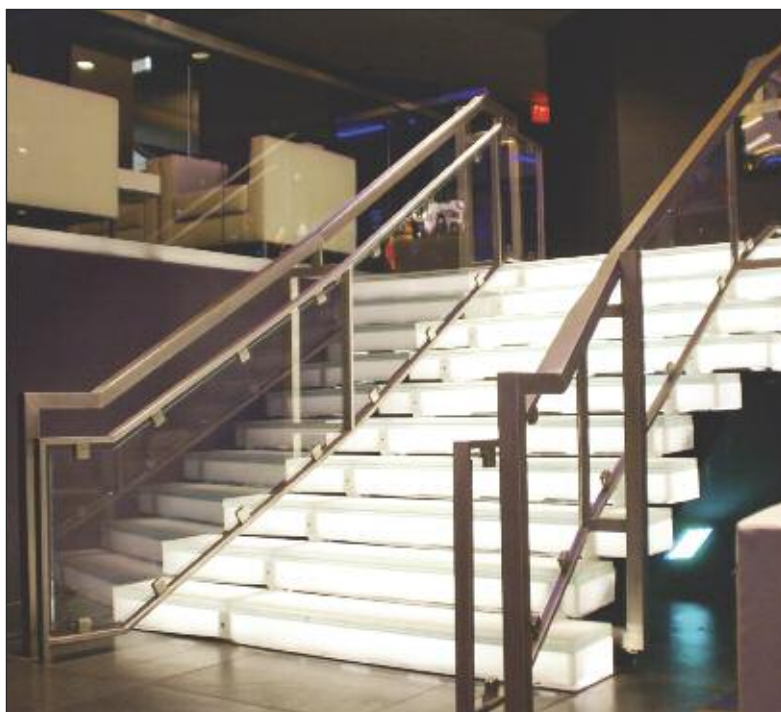
Models for Flat and Round Surface Installations

CRL Flat Base Clamps for 5/8" and 3/4" (16 and 19 mm) Tempered Glass and 11/16" and 27/32" (17.52 and 21.52 mm) Laminated Tempered Glass

2-1/8" (54 mm)

1-15/32" (37 mm)

Base View Front View

2-9/16" (65 mm)

Rear View

1-9/32" (33 mm)

23/32" (18 mm)
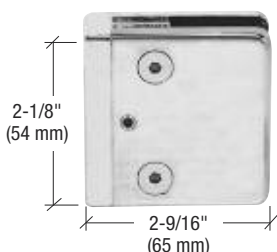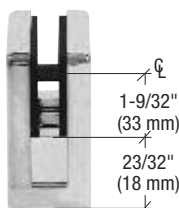
Side View

- Flat Base for Use With Square Tubing or Other Flat Surfaces
- 316 Grade Stainless Steel

CAT. NO.	DESCRIPTION
Z934BS	Brushed Stainless Flat Base Clamp
Z934PS	Polished Stainless Flat Base Clamp
Z34SG	Replacement Gasket Set for 3/4" (19 mm) Glass
Z58SG	Optional Gasket Set for 5/8" (16 mm) Glass

Minimum order for Clamps: 1 each. Minimum order for Gaskets: 1 pack.
All Z-Series Clamps can be combined for quantity pricing.

CRL Radius Base Clamps for 5/8" and 3/4" (16 and 19 mm) Tempered Glass and 11/16" and 27/52" (17.52 and 21.52 mm) Laminated Tempered Glass

2-1/8" (54 mm)

1-15/32" (37 mm)

Base View Front View

2-7/8" (73 mm)

Rear View

1-9/32" (33 mm)

23/32" (18 mm)
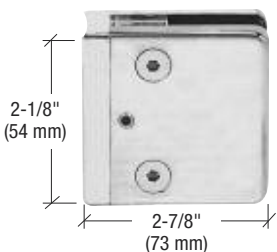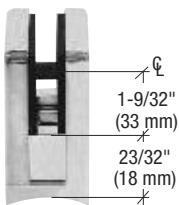
Side View

- Radius Base for Use With 2" (51 mm) Diameter Round Tubing
- 316 Grade Stainless Steel

CAT. NO.	DESCRIPTION
Z734BS	Brushed Stainless Radius Base Clamp
Z734PS	Polished Stainless Radius Base Clamp
Z34SG	Replacement Gasket Set for 3/4" (19 mm) Glass
Z58SG	Optional Gasket Set for 5/8" (16 mm) Glass

Minimum order for Clamps: 1 each. Minimum order for Gaskets: 1 pack.
All Z-Series Clamps can be combined for quantity pricing.

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TOLL Phone: (800) 421-6144
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CRL US ALUMINUM

CRL Mini Z-Series Round Type Flat Base Glass Clamps

For 1/4" (6 mm) Glass

- 316 Grade Stainless Steel in Two Finishes
- Not Designed for Guard Rail Applications
- Ideal for Small Glass Barriers
- For Mounting to Flat Surfaces
- No Hole Drilling; Pressure Fit

USE MONOLITHIC TEMPERED GLASS

CAT. NO. SHCS10X34
Cap Screw for Use on Metal Posts

Minimum order is 10 each. Must be ordered in increments of 10

19/32" (15 mm) — Base View
Front View
1-1/16" (27 mm) — Rear View
1-5/32" (30 mm)
7/16" (11 mm) — Side View

CAT. NO.	FINISH	BASE METAL
ZMF06PS	Polished Stainless	316 Grade Stainless Steel
ZMF06SS	Satin Stainless	316 Grade Stainless Steel

Minimum order: 1 each. All Z-Series Clamps can be combined for quantity pricing.

CRL Mini Z-Series Round Type Radius Base Glass Clamps

For 1/4" (6 mm) Glass
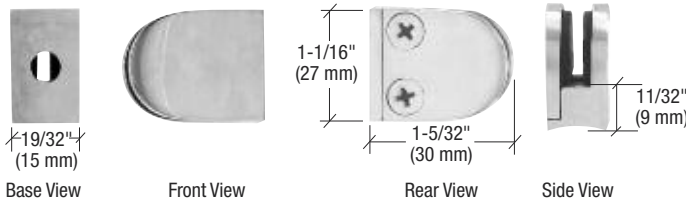
- 316 Grade Stainless Steel in Two Finishes
- Not Designed for Guard Rail Applications
- Ideal for Small Glass Barriers
- Fits 1" (25 mm) Diameter Tubing
- No Hole Drilling; Pressure Fit

USE MONOLITHIC TEMPERED GLASS

CAT. NO. SHCS10X34
Cap Screw for Use on Metal Posts

Minimum order is 10 each. Must be ordered in increments of 10

19/32" (15 mm) — Base View
Front View
1-1/16" (27 mm) — Rear View
1-5/32" (30 mm)
11/32" (9 mm) — Side View

CAT. NO.	FIT TUBE DIAMETER	FINISH	BASE METAL
ZMR06PS	1" (25 mm)	Polished Stainless	316 Grade Stainless Steel
ZMR06SS	1" (25 mm)	Satin Stainless	316 Grade Stainless Steel

Minimum order: 1 each. All Z-Series Clamps can be combined for quantity pricing.

CRL Adjustable Flat Base Glass Clamps

For 3/16" to 3/8" (5 to 10 mm) Glass
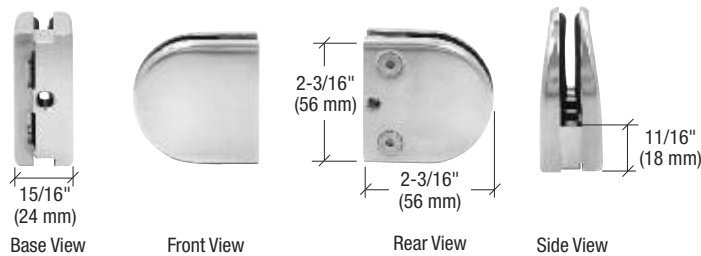
- Satin Chrome Finish
- Base Metal: Zinc Casting
- No Hole Drilling; Pressure Fit
- Optional Pin for Additional Glass Support Provided (Glass Fabrication Required if Using Pin)
- Not Designed for Guard Rail Applications

USE MONOLITHIC TEMPERED GLASS

CAT. NO. SHCS10X34
Cap Screw for Use on Metal Posts

Minimum order is 10 each. Must be ordered in increments of 10

15/16" (24 mm) — Base View
Front View
2-3/16" (56 mm) — Rear View
2-3/16" (56 mm)
11/16" (18 mm) — Side View

CAT. NO. 38AGP
Minimum order is one each.

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CRL US ALUMINUM

CRL Z-Series Small Square Glass Clamps
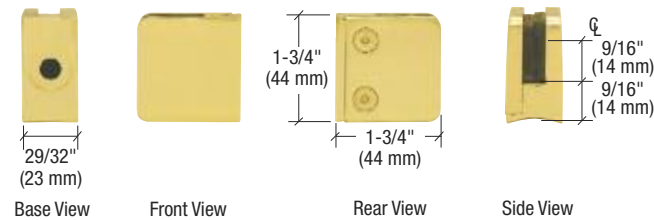
For 1/4" and 5/16" (6 and 8 mm) Glass

1-3/4" (44 mm)
1-3/4" (44 mm)
9/16" (14 mm)
9/16" (14 mm)
29/32" (23 mm)

Base View   Front View   Rear View   Side View

Glass Fabrication: 1/2" (12 mm) Diameter Hole Required if Using Provided Steel Pin.
Visit **crlaurence.com** for Glass Fabrication Templates.

- May be Used on Wood or Metal Radius or Flat Surfaces
- Not Designed for Guard Rail Applications

Attachment Hardware: Wood - Use Cat. No. ZLAG Lag Bolt
Metal - Use Cat. Nos. ZBOLT and ZRNUT Bolt and Riv-Nut

USE MONOLITHIC TEMPERED GLASS

CAT. NO.	FINISH	BASE METAL
Z130BR	Polished Brass	Zinc Casting
Z130CH	Polished Chrome	Zinc Casting
Z130SC	Satin Chrome	Zinc Casting
Z130BN	Brushed Nickel	Zinc Casting
Z130W	White	Zinc Casting
Z150PS	Polished Stainless	316 Grade Stainless Steel
Z150SS	Satin Stainless	316 Grade Stainless Steel

Minimum order: 1 each. All Z-Series Clamps can be combined for quantity pricing.

CRL Z-Series Large Square Glass Clamps
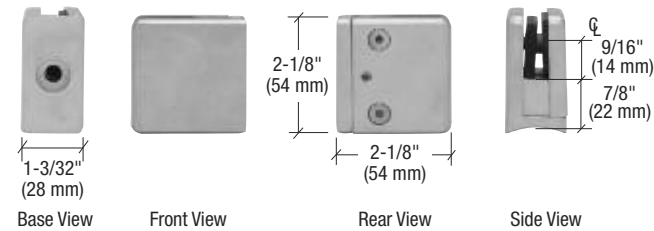
For 3/8" (10 mm) Glass

2-1/8" (54 mm)
9/16" (14 mm)
7/8" (22 mm)
2-1/8" (54 mm)
1-3/32" (28 mm)

Base View   Front View   Rear View   Side View

Glass Fabrication: 1/2" (12 mm) Diameter Hole Required if Using Provided Steel Pin.
Visit **crlaurence.com** for Glass Fabrication Templates.

- May be Used on Wood or Metal Radius or Flat Surfaces
- Not Designed for Guard Rail Applications

Attachment Hardware: Wood - Use Cat. No. 12X2PHPSMS Screw
Metal - Use Cat. Nos. ZBOLT14 and RN1420 Bolt and Riv-Nut

CAT. NO.	FINISH	BASE METAL
Z135BR	Polished Brass	Zinc Casting
Z135CH	Polished Chrome	Zinc Casting
Z135SC	Satin Chrome	Zinc Casting
Z135BN	Brushed Nickel	Zinc Casting
Z135W	White	Zinc Casting
Z155PS	Polished Stainless	316 Grade Stainless Steel
Z155SS	Satin Stainless	316 Grade Stainless Steel

Minimum order: 1 each. All Z-Series Clamps can be combined for quantity pricing.

CRL Z-Series Large Round Glass Clamps

For 1/4" (6 mm) Glass
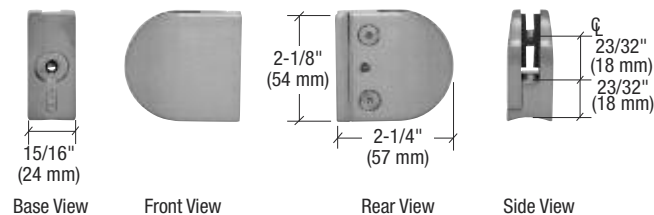
2-1/8" (54 mm)
23/32" (18 mm)
23/32" (18 mm)
2-1/4" (57 mm)
15/16" (24 mm)

Base View   Front View   Rear View   Side View

Glass Fabrication: 1/2" (12 mm) Diameter Hole Required if Using Provided Steel Pin.
Visit **crlaurence.com** for Glass Fabrication Templates.

- May be Used on Wood or Metal Radius or Flat Surfaces
- Not Designed for Guard Rail Applications

Attachment Hardware: Wood - Use Cat. No. 12X2PHPSMS Screw
Metal - Use Cat. Nos. ZBOLT14 and RN1420 Bolt and Riv-Nut

CAT. NO.	FINISH	BASE METAL
Z106BR	Polished Brass	Zinc Casting
Z106CH	Polished Chrome	Zinc Casting
Z106SC	Satin Chrome	Zinc Casting
Z106BN	Brushed Nickel	Zinc Casting
Z106GP	Gold Plated	Zinc Casting
Z106W	White	Zinc Casting

Minimum order: 1 each. All Z-Series Clamps can be combined for quantity pricing.

CRL Z-Series Large Round Glass Clamps

For 3/8" (10 mm) Glass
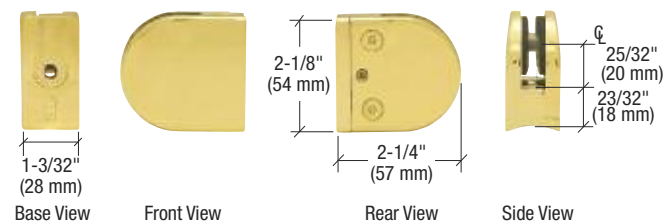
2-1/8" (54 mm)
25/32" (20 mm)
23/32" (18 mm)
2-1/4" (57 mm)
1-3/32" (28 mm)

Base View   Front View   Rear View   Side View

Glass Fabrication: 1/2" (12 mm) Diameter Hole Required if Using Provided Steel Pin.
Visit **crlaurence.com** for Glass Fabrication Templates.

- May be Used on Wood or Metal Radius or Flat Surfaces
- Not Designed for Guard Rail Applications

Attachment Hardware: Wood - Use Cat. No. 12X2PHPSMS Screw
Metal - Use Cat. Nos. ZBOLT14 and RN1420 Bolt and Riv-Nut

CAT. NO.	FINISH	BASE METAL
Z110BR	Polished Brass	Zinc Casting
Z110CH	Polished Chrome	Zinc Casting
Z110SC	Satin Chrome	Zinc Casting
Z110BN	Brushed Nickel	Zinc Casting
Z110GP	Gold Plated	Zinc Casting
Z110W	White	Zinc Casting

Minimum order: 1 each. All Z-Series Clamps can be combined for quantity pricing.

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TOLL Phone: (800) 421-6144
FREE Fax: (800) 262-3299
From Anywhere in the U.S. or Canada

CRL US ALUMINUM

CRL Z-Series Clamp Replacement Screws

- Three Finishes to Match Our Z-Series Clamps

ZCS5X15 Screw

3 mm Allen Key Required

CAT. NO.	FINISH	QTY/PACK
ZCS5X15BR	Brass	8
ZCS5X15CH	Chrome	8
ZCS5X15SS	Brushed Stainless Steel	8

Minimum order: 1 pack.

CRL Z-Series Clamp Attachment Fasteners

- For Use With CRL's Z-Series Clamps

CAT. NO. ZLAG
For Wood Attachments

CAT. NO. ZBOLT14
For Metal Attachments

CAT. NO. ZBOLT
For Metal Attachments

CAT. NO. SHCS10X34
For Metal Attachments

CAT. NO.	DESCRIPTION
ZLAG	5/16" x 2" (51 mm) 316 Grade S.S. Lag Bolt
ZBOLT14	1/4"-20 x 1" (25 mm) 304 Grade S.S. Cap Bolt
ZBOLT	5/16"-18 x 1" (25 mm) 304 Grade S.S. Cap Bolt
SHCS10X34	10-24 x 3/4" (19 mm) 304 Grade S.S. Cap Screw

Minimum order: 10 each. Must be ordered in increments of 10. Use a 4 mm Allen Wrench to tighten, except ZBOLT14 which uses a 3/16" Allen Wrench.

CRL Rivet-Nut Drill Bit

- High Speed 17/32" (13 mm) Drill for Installing Our ZRNUT Rivet-Nuts

This High Speed Drill Bit is made of M-7 steel for high resistance to abrasion during tough drilling applications. The three-flatted shank provides better chuck grip and reduces slippage. Shank diameter is 1/2" (13 mm). Overall length is 6" (152 mm). Minimum order is one each. See page 555B for additional Drill Bits.

CAT. NO. 91134

CRL Riv-Nut

- For Securing Z-Series Clamps to Tubing Using ZBOLT Cap Bolt (See Above)

Requires 17/32" Dia Hole in Tube

Inserted

Compressed
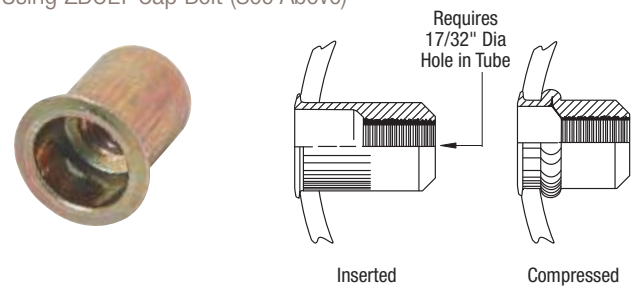
CAT. NO.	DESCRIPTION
ZRNUT	5/16"-18 Riv-Nut for use in Thin Wall Tubing (1/8" and Less)

Minimum order: 10 each. Must be ordered in increments of 10.

CRL Heavy-Duty Thread-Setter Tool

- Installs Rivet-Nuts and Poly-Nuts

The CRL Heavy-Duty Thread-Setter Tool is supplied with a 1/4"-20 Mandrel and Nosepiece only. It will install 10-24, 10-32, 1/4"-20, 5/16"-18, 3/8"-16, 5 mm, 6 mm, 8 mm, and 10 mm aluminum or steel Rivet-Nuts and Poly-Nuts. Cat. No. 34618 5/16"-18 Replacement Mandrel is sold separately (see right). Minimum order is one each.

CAT. NO. 34604

CRL Mandrel and Nosepieces

- 34617 is a Replacement for the One Supplied With the 34604 Thread-Setter Tool
- 34618 Which is the Size Required for the ZRNUT (See Above)

Cat. No. 34618 Shown

These Mandrel and Nosepieces are for Cat. No. 34604 Heavy-Duty Thread-Setter Tool.

CAT. NO.	DESCRIPTION
34617	1/4"-20 Mandrel and Nosepiece
34618	5/16"-18 Mandrel and Nosepiece

Minimum order: 1 each.

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CRL US ALUMINUM

CRL Glass Clamps for Stair and Walkway Railings

USE MONOLITHIC TEMPERED GLASS

- Polished Chrome, Polished Brass, and Brushed Nickel Finishes for 3/8" or 1/2" (10 or 12 mm) Tempered Glass
- Custom Finishes Available on Request

ONLINE INSTALLATION RESOURCES

Our Glass and Railing Clamps are predrilled and ready for use in the construction of metal and glass railings, partitions, room dividers and more. Two sizes accommodate 3/8" or 1/2" (10 or 12 mm) tempered glass. Three popular finishes are available. Simply loosen screw on one end, insert glass edge and tighten. Use CRL Tuff-Pak Tape to cushion glass in Clamps. For wood mount attachments use Cat. No. 8X212DW Screw. For metal attachments use Cat. No. 8X1FHPSMS Screw. Clamps have face plate screws on both sides. Drawings and templates for all Clamps are available online at **crlaurence.com/railing-clamps**.

A Acute — Closed on Acute Angle End
B Angle Open Both Ends
C Obtuse — Closed on Obtuse Angle End
D Reversible Closed One End
E Straight Open Both Ends

3/8" Clamps
25/64" (10 mm)
41/64" (16 mm)

1/2" Clamps
33/64" (13 mm)
3/4" (19 mm)

A: Acute End Clamp for Slanted Railings
B: Open Center Clamp for Slanted Railings
C: Obtuse End Clamp for Slanted Railings
D: Straight End Clamp for Level Railings
E: Straight Open Center Clamp for Level Railings

CRL 52 Degree Slant Acute End Clamp "A"

Use Slant Acute End Clamps on top of glass at high end of slant, or bottom of glass at low end of slant. Clamps at 52 degree angle.

1-7/8" (47 mm), 1-7/8" (47 mm), 7/16" (11 mm), One Mounting Hole in Base
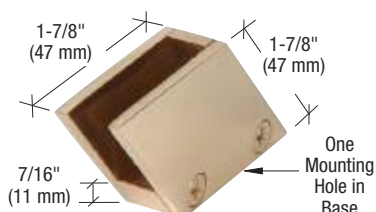
CAT. NO.	FINISH	GLASS THICKNESS
RH3312BR	Polished Brass	1/2" (12 mm)
RH3338BR	Polished Brass	3/8" (10 mm)
RH3312CH	Polished Chrome	1/2" (12 mm)
RH3338CH	Polished Chrome	3/8" (10 mm)
RH3312BN	Brushed Nickel	1/2" (12 mm)
RH3338BN	Brushed Nickel	3/8" (10 mm)

Minimum order: 1 each. All Glass Clamps can be combined for quantity pricing.

CRL 52 Degree Slant Open Center Clamp "B"

Use Slant Open Center Clamps on top or bottom midpoint of slanted glass. Reversible center clamps at 52 degree angle.

1-7/8" (47 mm), 1-7/8" (47 mm), 7/16" (11 mm), Two Mounting Holes in Base
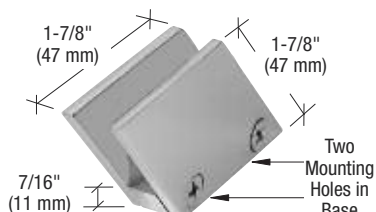
CAT. NO.	FINISH	GLASS THICKNESS
RH4412BR	Polished Brass	1/2" (12 mm)
RH4438BR	Polished Brass	3/8" (10 mm)
RH4412CH	Polished Chrome	1/2" (12 mm)
RH4438CH	Polished Chrome	3/8" (10 mm)
RH4412BN	Brushed Nickel	1/2" (12 mm)
RH4438BN	Brushed Nickel	3/8" (10 mm)

Minimum order: 1 each. All Glass Clamps can be combined for quantity pricing.

CRL 128 Degree Slant Obtuse End Clamp "C"

Use Slant Obtuse End Clamps on bottom of glass at high end of slant, or top of glass at low end of slant. Clamps at 128 degree angle.

1-7/8" (47 mm), 1-7/8" (47 mm), 7/16" (11 mm), Two Mounting Holes in Base
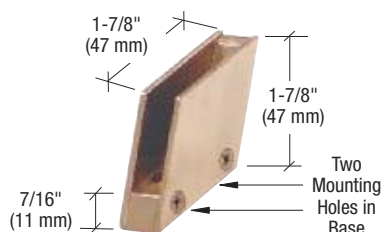
CAT. NO.	FINISH	GLASS THICKNESS
RH5512BR	Polished Brass	1/2" (12 mm)
RH5538BR	Polished Brass	3/8" (10 mm)
RH5512CH	Polished Chrome	1/2" (12 mm)
RH5538CH	Polished Chrome	3/8" (10 mm)
RH5512BN	Brushed Nickel	1/2" (12 mm)
RH5538BN	Brushed Nickel	3/8" (10 mm)

Minimum order: 1 each. All Glass Clamps can be combined for quantity pricing.

CRL 90 Degree Straight End Clamp "D"

Use Straight End Clamps on top of glass at end of level run, or bottom of glass at end of level run. Clamps are reversible with 90 degree corners.

1-7/8" (47 mm), 1-7/8" (47 mm), 3/8" (10 mm), Two Mounting Holes in Base
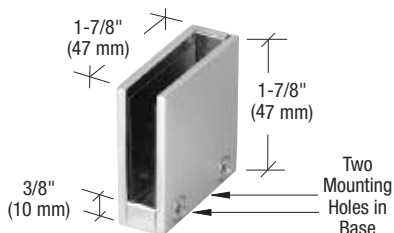
CAT. NO.	FINISH	GLASS THICKNESS
RH2212BR	Polished Brass	1/2" (12 mm)
RH2238BR	Polished Brass	3/8" (10 mm)
RH2212CH	Polished Chrome	1/2" (12 mm)
RH2238CH	Polished Chrome	3/8" (10 mm)
RH2212BN	Brushed Nickel	1/2" (12 mm)
RH2238BN	Brushed Nickel	3/8" (10 mm)

Minimum order: 1 each. All Glass Clamps can be combined for quantity pricing.

CRL 90 Degree Straight Open Center Clamp "E"

Use Straight Open Center Clamps on top or bottom midpoint of glass on level run. Reversible open center clamps.

1-7/8" (47 mm), 1-7/8" (47 mm), 3/8" (10 mm), Two Mounting Holes in Base
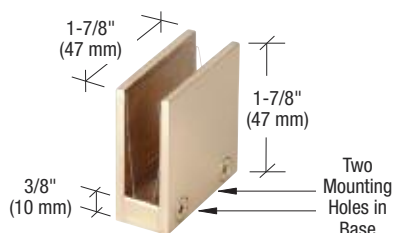
CAT. NO.	FINISH	GLASS THICKNESS
RH1112BR	Polished Brass	1/2" (12 mm)
RH1138BR	Polished Brass	3/8" (10 mm)
RH1112CH	Polished Chrome	1/2" (12 mm)
RH1138CH	Polished Chrome	3/8" (10 mm)
RH1112BN	Brushed Nickel	1/2" (12 mm)
RH1138BN	Brushed Nickel	3/8" (10 mm)

Minimum order: 1 each. All Glass Clamps can be combined for quantity pricing.

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CRL US ALUMINUM

CRL Glass Railing Spider Fittings

USE MONOLITHIC TEMPERED GLASS

or

USE LAMINATED TEMPERED GLASS

- Spiders for Mounting to Posts, Walls or Structural Fins
- Designed for the 'All-Glass' Look
- Specially Sized for Interior Dividers, Displays, and Hand Railing Applications
- For Use With 3/8" or 1/2" (10 or 12 mm) Tempered Glass or 9/16" (13.52 mm) Laminated Tempered Glass
- Rigid or Swivel Countersunk or Cap Mount Glass Attachments Available
- Made of 316 Grade Stainless Steel in Two Attractive Finishes: Brushed and Polished

We have expanded our line of Glass Railing Fittings for use in interior or exterior dividers, displays, and hand railing applications. CRL now stocks nine designs that can be incorporated into these systems. We have one, two, and four arm fittings that can be mounted to railing posts, structural walls or fins.

We offer two types of Combination Glass Attachments (see next page) that can be used for any of these fittings. The Rigid Head Combination Glass Attachment can be used for both countersunk (flush) mounting and cap (standard hole) mounting. This fastener would be used in areas where movement of the glass (deflection) needs to be minimized.

The Swivel Head Combination Glass Attachment can also be used for both countersunk (flush) mounting and cap (standard hole) mounting. This fastener allows for six degrees of rotation in any direction, which can be used in segmented radius applications or in areas where the glass will get a small amount of dynamic loading.

All CRL Spider Fittings and Glass Attachments are made of 316 grade stainless steel to provide a virtually maintenance-free design and a beautiful finish to complement most any décor.

Custom Windscreen/Sound Wall at Airport Using CRL Spider Fittings

GRF4

GRP1

GRF2

GRP2V

GRF2V

GRP2

GRF1

GRP1L

GRP4

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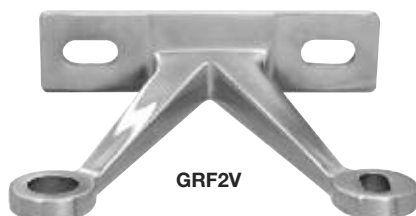
CRL Rigid Head Combination Glass Attachment

Rigid Head Attachments allow for a secure attachment and minimize the deflection of the glass panels. This type of fitting is typically used only for interior applications.

USE MONOLITHIC TEMPERED GLASS

or

USE LAMINATED TEMPERED GLASS

One Fitting for Either Flush or Surface Mount Installations

Flush Mount
(Countersunk hole in glass)

Cap Mount
(Standard hole through glass)

Our special Rigid Head Combination Glass Attachment Fittings can be used for 'flush' mounting for a smooth exterior surface when the glass is fabricated with a countersunk hole. This same Fitting can be used for the 'cap' type of mounting when using the supplied adapter washer. This requires just a standard hole in the glass. Use 1/4" Allen Head Wrench to tighten Cap.
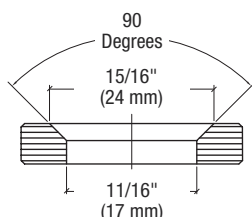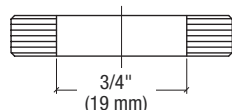
90 Degrees
15/16" (24 mm)
11/16" (17 mm)
Flush mount glass fabrication *

3/4" (19 mm)
Cap mount glass fabrication

* We suggest when using the flush mount method that you give your glass fabricator a sample Flush Mount Glass Attachment to ensure a proper flush fit.

CAT. NO.	FINISH
RRF10BS	Brushed Stainless
RRF10PS	Polished Stainless

Minimum order: 1 each. Finishes can be combined for quantity pricing.

CRL Swivel Head Combination Glass Attachment

The head of the Swivel Glass Attachment can tilt up to six degrees in any direction on its ball and socket joint. This allows for any stress applied to the glass to be more evenly distributed across the entire panel of glass rather than concentrating at the hole. These are typically used in conditions where the glass will be subject to live loads.

USE MONOLITHIC TEMPERED GLASS

or

USE LAMINATED TEMPERED GLASS

One Fitting for Either Flush or Surface Mount Installations

Flush Mount
(Countersunk hole in glass)

Cap Mount
(Standard hole through glass)

The Swivel Head Fitting also employs our special Combination Glass Attachment design so it can be used for 'flush' mounting for a smooth exterior surface when the glass is fabricated with a countersunk hole. This same Fitting can be used for the 'cap' type of mounting when using the supplied adapter washer. This requires just a standard hole in the glass. Use Cat. No. SW19 Spanner Wrench (see below) to tighten Cap.
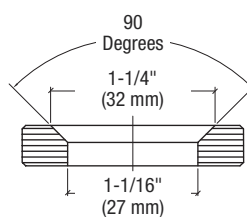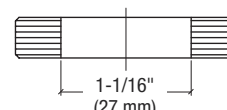
90 Degrees
1-1/4" (32 mm)
1-1/16" (27 mm)
Flush mount glass fabrication *

1-1/16" (27 mm)
Cap mount glass fabrication

* We suggest when using the flush mount method that you give your glass fabricator a sample Flush Mount Glass Attachment to ensure a proper flush fit.

CAT. NO.	FINISH
RSF10BS	Brushed Stainless
RSF10PS	Polished Stainless

Minimum order: 1 each. Finishes can be combined for quantity pricing.

NOTE: Swivel Head Combination Glass Attachments **Can Not** be used with our P6 Series Spider Fitting Railing Posts.

CRL Replacement Gasket Set for Rigid Head Glass Attachment

Replacement Plastic Gasket Set includes parts required for Countersunk or Surface Mount Attachments. Minimum order is one each.

CAT. NO. RRF10RW

CRL Replacement Gasket Set for Swivel Head Glass Attachment

Replacement Plastic Gasket Set includes parts required for Countersunk or Surface Mount Attachments. Minimum order is one each.

CAT. NO. RSF10RW

CRL Spanner Wrench

Use this CRL Spanner Wrench as a quick and efficient method to secure and tighten Swivel Head Combination Glass Attachments (see above). Minimum order is one each.

CAT. NO. SW19

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CRL
US ALUMINUM

CRL Replacement Bolts for Post Mounted Spider Fittings

Replacement Bolts for Post Mounted Spider Fittings. Available in brushed and polished stainless steel

CAT. NO.	SIZE	FINISH
RBEB2BS	3/8"-16 x 2" (51 mm)	Brushed Stainless
RBEB2PS	3/8"-16 x 2" (51 mm)	Polished Stainless

Minimum order: 1 each.

CRL Replacement Stud Set for Fin Mounted Spider Fittings

Replacement Stud Set includes parts required for Fin Mounted Spider Fittings.

CAT. NO.	FINISH
M10SETBS	Brushed Stainless
M10SETPS	Polished Stainless

Minimum order: 1 each.

CRL Post Adapters

- Designed for Round or Flat-Sided Posts
- 3/8" (10 mm) Deep Hole to Provide for Proper Attachment Requirements to Mount Spider Fitting to Post

Adapters are to be welded to posts, and are drilled and tapped to accept mounting hardware supplied with Spider Fittings.

CAT. NO.	FINISH	FOR USE ON
SPA01SS	Mill Stainless	Flat-Sided Posts
SPA02SS	Mill Stainless	Round Posts*

Minimum order: 1 each. * For use with 1-1/2" (38 mm) to 2" (51 mm) outside diameter posts.

1-3/8" (35 mm)
3/8" (10 mm)
3/8" (10 mm)
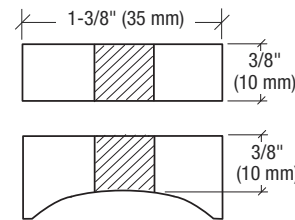
CRL Single Arm Post Mount Fittings

- Short and Long Arms Available
- Complete With Hardware to Mount to Post

These CRL Post Mount Fittings are used to attach a single glass panel to a structural end post. Comes with one 3/8"-16 x 2" (51 mm) long stainless steel threaded stud for proper attachment.

Glass Attachments Must Be Ordered Separately (see page 316B)

2-3/8" (60 mm) - **Short Arm**
3-5/16" (84 mm) - **Long Arm**
1-3/8" (35 mm)

5/8" (16 mm)
5/8" (16 mm)
3/8" (10 mm)
3/8" (10 mm)
1-9/16" (40 mm)

SHORT ARM CAT. NO.	LONG ARM CAT. NO.	GRADE	FINISH
GRP1BS	GRP1LBS	316	Brushed Stainless
GRP1PS	GRP1LPS	316	Polished Stainless

Minimum order: 1 each. All Spider Fittings can be combined for quantity pricing.

Short Arm   Long Arm
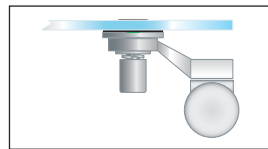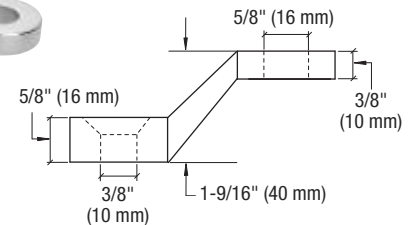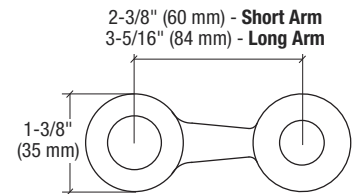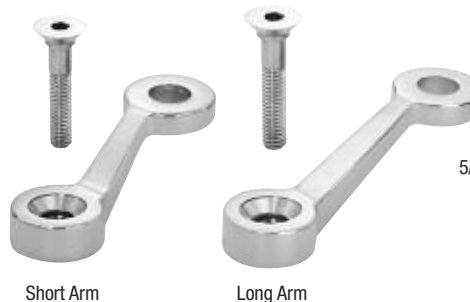
CRL Double Arm Post Mount Fittings

- Compact Design for Minimal Obstruction
- Complete With Hardware to Mount to Post

This CRL Post Mount Fitting is used to attach two inline glass panels to a structural center post. Comes with one 3/8"-16 x 2" (51 mm) long stainless steel threaded stud for proper attachment.

Glass Attachments Must Be Ordered Separately (see page 316B)

USE MONOLITHIC TEMPERED GLASS
USE LAMINATED TEMPERED GLASS

3/8" (10 mm)
5/8" (16 mm)
5/8" (16 mm)
1-9/16" (40 mm)
3/8" (10 mm)

4-3/4" (120 mm)
1-3/8" (35 mm)
1-3/8" (35 mm)
2-3/8" (60 mm)

CAT. NO.	GRADE	FINISH
GRP2BS	316	Brushed Stainless
GRP2PS	316	Polished Stainless

Minimum order: 1 each. All Spider Fittings can be combined for quantity pricing.

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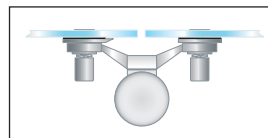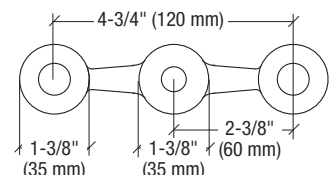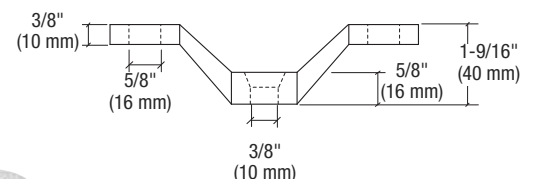
CRL Double Arm "V" Post Mount Fittings

- Classic "V" Look
- Complete With Hardware to Mount to Post

This CRL Post Mount Fitting is used to attach a single glass panel to a structural end post, or two inline glass panels to a structural center post. Comes with one 3/8"-16 x 2" (51 mm) long stainless steel threaded stud for proper attachment.

Glass Attachments Must Be Ordered Separately (see page 316B)

USE MONOLITHIC TEMPERED GLASS or USE LAMINATED TEMPERED GLASS

4-3/4" (120 mm)
2-3/8" (60 mm) 2-3/8" (60 mm)
2-3/8" (60 mm)
3-5/16" (85 mm)
1-3/8" (35 mm) 5/8" (16 mm)
3/8" (10 mm) 1-3/8" (35 mm)
5/8" (16 mm) 1-9/16" (40 mm)
3/8" (10 mm)

CAT. NO.	GRADE	FINISH
GRP2VBS	316	Brushed Stainless
GRP2VPS	316	Polished Stainless

Minimum order: 1 each. All Spider Fittings can be combined for quantity pricing.
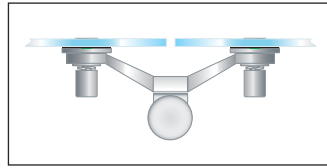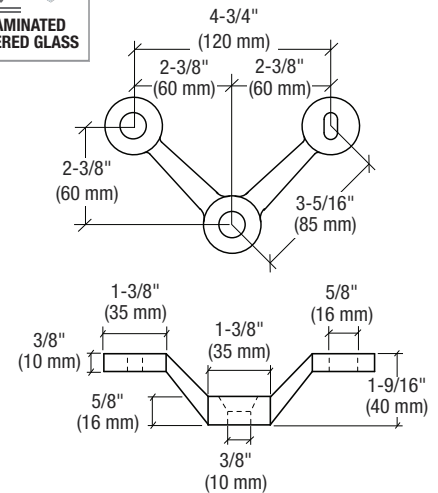
CRL Four Arm "V" Post Mount Fittings

- Classic "V" Look
- Complete With Hardware to Mount to Post

This CRL Post Mount Fitting is used to attach two inline glass panels to a structural center post. Comes with one 3/8"-16 x 2" (51 mm) long stainless steel threaded stud for proper attachment.

Glass Attachments Must Be Ordered Separately (see page 316B)

USE MONOLITHIC TEMPERED GLASS or USE LAMINATED TEMPERED GLASS

4-3/4" (120 mm)
2-3/8" (60 mm) 2-3/8" (60 mm)
4-3/4" (120 mm)
7/16" (11 mm) 5/8" (16 mm)
5/8" (16 mm) 5/8" (16 mm) 1-3/8" (35 mm)
3/8" (10 mm) 1-3/8" (35 mm)
5/8" (16 mm) 1-9/16" (40 mm)
3/8" (10 mm)

CAT. NO.	GRADE	FINISH
GRP4BS	316	Brushed Stainless
GRP4PS	316	Polished Stainless

Minimum order: 1 each. All Spider Fittings can be combined for quantity pricing.
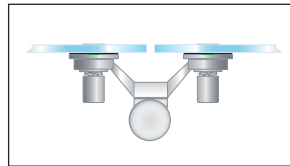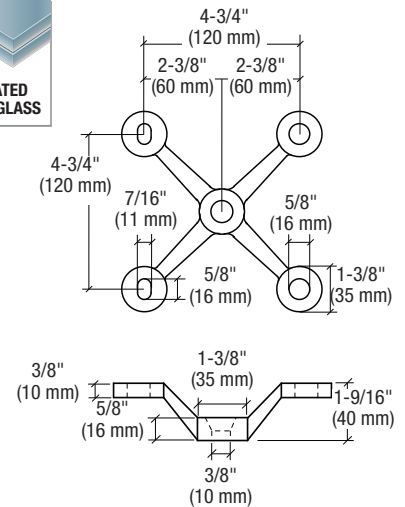
CRL Single Arm Wall/Fin Mount Fittings

- Compact Design for Minimal Obstruction
- Complete With Hardware to Mount to Wall or Structural Fin

This Wall/Fin Mount Fitting is used to attach a single glass panel to a wall or structural fin. Comes with two M10-1.5 x 59 mm (2-5/16") stainless steel threaded studs and two matching cap nuts with washers. See page 317B for a Replacement Stud Set.

Glass Attachments Must Be Ordered Separately (see page 316B)

4-5/16" (110 mm)
2-11/16" (68 mm)
7/16" (11 mm) 11/16" (18 mm)
7/8" (22 mm) 3/8" (10 mm)
1/4" (6 mm)
2-3/16" (55 mm) 13/16" (20 mm)
1-3/8" (35 mm)
2-9/16" (65 mm) 3/8" (10 mm) 1-3/8" (35 mm)
13/16" (20 mm)
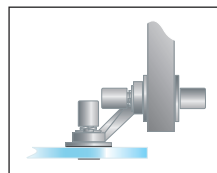
CAT. NO.	GRADE	FINISH
GRF1BS	316	Brushed Stainless
GRF1PS	316	Polished Stainless

USE MONOLITHIC TEMPERED GLASS or USE LAMINATED TEMPERED GLASS

Minimum order: 1 each. All Spider Fittings can be combined for quantity pricing.

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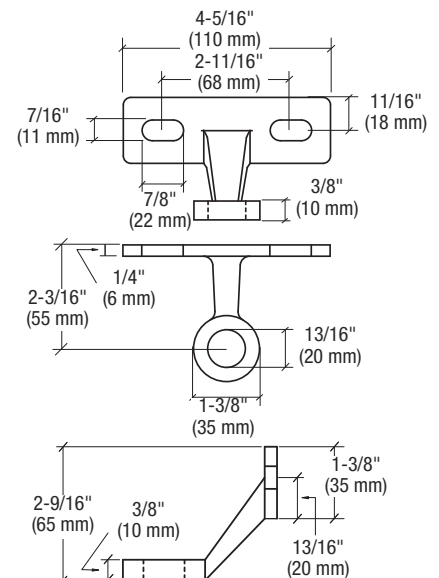
CRL Double Arm Wall/Fin Mount Fittings

- Compact Design for Minimal Obstruction
- Complete With Hardware to Mount to Wall or Structural Fin

Glass Attachments Must Be Ordered Separately (see page 316B)

2-3/16" (55 mm)
1/4" (6 mm)
13/16" (20 mm)
1-3/8" (35 mm)

This Wall/Fin Mount Fitting is used to attach two inline glass panels to a structural fin. Comes with two M10-1.5 x 59 mm (2-5/16") stainless steel threaded studs and four matching cap nuts with washers. See page 317B for a Replacement Stud Set.

4-5/16" (110 mm)
2-11/16" (68 mm)
1-3/8" (35 mm)
2-9/16" (65 mm)
7/16" (11 mm)
7/8" (22 mm)
11/16" (18 mm)
3/8" (10 mm)
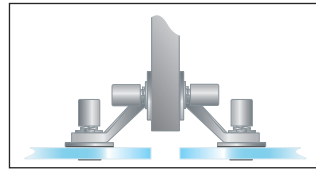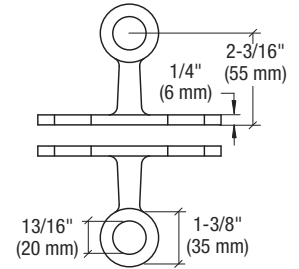
CAT. NO.	GRADE	FINISH
GRF2BS	316	Brushed Stainless
GRF2PS	316	Polished Stainless

Minimum order: 1 each. All Spider Fittings can be combined for quantity pricing.

USE MONOLITHIC TEMPERED GLASS or **USE LAMINATED TEMPERED GLASS**
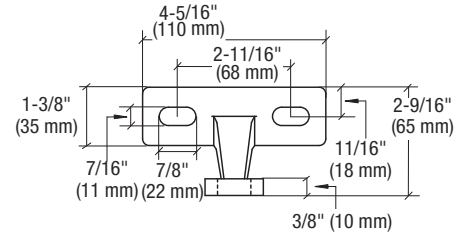
CRL Double Arm "V" Wall/Fin Mount Fittings

- Classic "V" Look
- Complete With Hardware to Mount to Wall or Structural Fin

Glass Attachments Must Be Ordered Separately (see page 316B)

1/4" (6 mm)
2-3/16" (55 mm)
7/16" (11 mm)
1-3/8" (35 mm)
7/8" (22 mm)
5" (127 mm)
13/16" (20 mm)

This Wall/Fin Mount Fitting is used to attach a single glass panel to a wall or structural fin. Comes with two M10-1.5 x 59 mm (2-5/16") stainless steel threaded studs and two matching cap nuts with washers. See page 317B for a Replacement Stud Set.

5-1/2" (140 mm)
11/16" (18 mm)
3-7/8" (98 mm)
7/8" (22 mm)
1-3/8" (35 mm)
7/16" (11 mm)
2-9/16" (65 mm)
3/8" (10 mm)
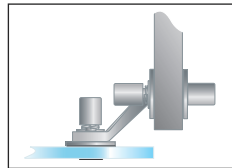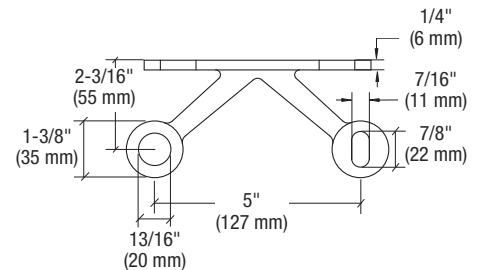
CAT. NO.	GRADE	FINISH
GRF2VBS	316	Brushed Stainless
GRF2VPS	316	Polished Stainless

Minimum order: 1 each. All Spider Fittings can be combined for quantity pricing.

USE MONOLITHIC TEMPERED GLASS or **USE LAMINATED TEMPERED GLASS**
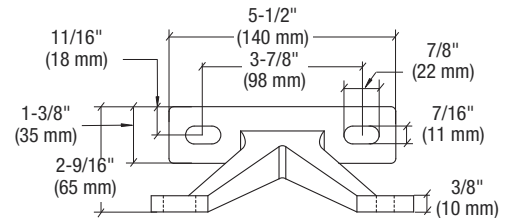
CRL Four Arm "V" Wall/Fin Mount Fittings

- Classic "V" Look
- Complete With Hardware to Mount to Wall or Structural Fin

Glass Attachments Must Be Ordered Separately (see page 316B)

13/16" (20 mm)
7/16" (11 mm)
2-3/16" (55 mm)
1/4" (6 mm)
1-3/8" (35 mm)
5" (127 mm)
7/8" (22 mm)
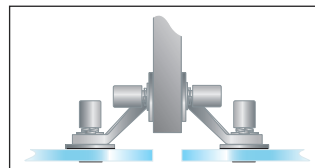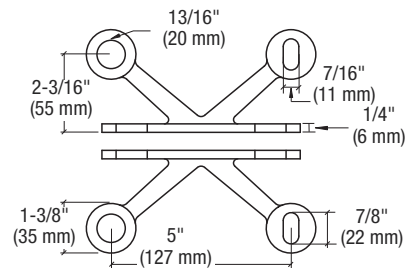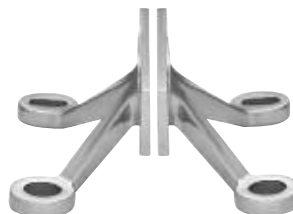
This Wall/Fin Mount Fitting is used to attach two inline glass panels to a structural center fin. Comes with two M10-1.5 x 59 mm (2-5/16") stainless steel threaded studs and four matching cap nuts with washers. See page 317B for a Replacement Stud Set.

5-1/2" (140 mm)
11/16" (18 mm)
3-7/8" (98 mm)
7/8" (22 mm)
1-3/8" (35 mm)
7/16" (11 mm)
2-9/16" (65 mm)
3/8" (10 mm)

CAT. NO.	GRADE	FINISH
GRF4BS	316	Brushed Stainless
GRF4PS	316	Polished Stainless

Minimum order: 1 each. All Spider Fittings can be combined for quantity pricing.

USE MONOLITHIC TEMPERED GLASS or **USE LAMINATED TEMPERED GLASS**

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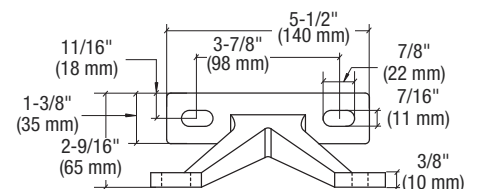
CRL Stainless Steel Modular Crossbar Infill System

- Commonly Used as a Railing Infill
- Easy Slip Fit Design, No Special Welding or Fabrication Required
- 316 Grade Stainless Steel in Two Architectural Finishes

CRL's Stainless Steel Modular Crossbar Infill System is designed for standard infill railing applications. Offered in two 316 grade architectural finishes, this component system requires no special welding or fabrication. This modular stainless steel system can be cut and installed easily with its slip fit design.

Components are designed for both round post and square post applications. For screws to attach the Standoff Connectors to the post specify our Cat. No. SRB0LT 1/4"-20 x 1" (25 mm) bolt. For thin wall posts, 1/8" (3 mm) or less, use CRL Cat. No. RN1420 Rivet Nuts for attachment (see page 460B). Our Modular Standoff Connector Systems can be used as shown or customized to your client's needs.

- Standard Mounting Options

Flat Back Surface Mount Connector

Round Post Surface Mount Connector

Mount Back Plate to Post With Cat. No. SRBOLT

Sleeve External Housing Over Back Mounting Plate and Tighten Set Screw

Insert .470" (11.9 mm) Stainless Steel Crossbar Into Position

Tighten Set Screw to Complete Installation

CRL Stainless Steel Crossbar Rod

- Easy Slip Fit Design With No Welding or Custom Fabrication Required
- 316 Grade Stainless Steel for Interior and Exterior Use
- Two Architectural Finishes to Match Our Standoff Connectors

CRL's Stainless Steel Crossbar System is designed for standard infill railing applications. This component system requires no special welding or fabrication at the job site. The Stainless Steel Crossbar can be cut and installed easily with its slip fit design. Crossbars are shipped in 236" (6 m) lengths.

.470" (11.9 mm)
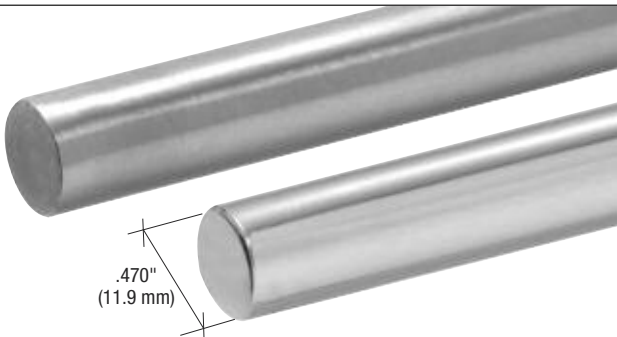
CAT. NO.	LENGTH	GRADE	FINISH
CBR12BS	236" (6 m)	316	Brushed Stainless
CBR12PS	236" (6 m)	316	Polished Stainless

Minimum order: 1 each. Finishes can be combined for quantity pricing. Must ship common carrier.

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320B

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CRL US ALUMINUM

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CRL Left End Standoff Connector (Radius Back)

- Attaches to 1.9" (48 mm) or 2" (51 mm) Diameter Tubing
- Surface Mount Design With No Exposed Fasteners
- Supports .470" (11.9 mm) Diameter Crossbar
- Easy Slip Fit Mounting
- 316 Grade Stainless Steel

CRL's Stainless Steel Standoff Connectors are designed to support .470" (11.9 mm) diameter Stainless Steel Crossbar Rod. Our easy slip fit design allows for seamless installations. No special welding or fabrication required. When attaching to the post use our Cat. No. SRB0LT 1/4"-20 x 1" (25 mm) Bolt.

Set Screw (2.5 mm)

1.187" (30 mm) .875" (22 mm)

.485" (12.3 mm)

Bottom View of Standoff with Radius Back

7/8" (22 mm) Diameter Standoff Connector Supplied With Radius Adapter

Supports .470" (11.9 mm) Diameter Stainless Steel Crossbar (Sold Separately)

CAT. NO.	GRADE	FINISH
CBR3BS	316	Brushed Stainless
CBR3PS	316	Polished Stainless

Minimum order: 1 each. All Crossbar Connectors can be combined for quantity pricing.

CRL Right End Standoff Connector (Radius Back)

- Attaches to 1.9" (48 mm) or 2" (51 mm) Diameter Tubing
- Surface Mount Design With No Exposed Fasteners
- Supports .470" (11.9 mm) Diameter Crossbar
- Easy Slip Fit Mounting
- 316 Grade Stainless Steel

CRL's Stainless Steel Standoff Connectors are designed to support .470" (11.9 mm) diameter Stainless Steel Crossbar Rod. Our easy slip fit design allows for seamless installations. No special welding or fabrication required. When attaching to the post use our Cat. No. SRB0LT 1/4"-20 x 1" (25 mm) Bolt.

Set Screw (2.5 mm)

.875" (22 mm) 1.187" (30 mm)

.485" (12.3 mm)

Bottom View of Standoff with Radius Back

7/8" (22 mm) Diameter Standoff Connector Supplied With Radius Adapter

Supports .470" (11.9 mm) Diameter Stainless Steel Crossbar (Sold Separately)

CAT. NO.	GRADE	FINISH
CBR4BS	316	Brushed Stainless
CBR4PS	316	Polished Stainless

Minimum order: 1 each. All Crossbar Connectors can be combined for quantity pricing.

CRL Center Standoff Connector (Radius Back)

- Attaches to 1.9" (48 mm) or 2" (51 mm) Diameter Tubing
- Supports .470" (11.9 mm) Diameter Crossbar
- Easy Slip Fit Mounting With No Special Welding or Fabrication
- 316 Grade Stainless Steel

For center posts, CRL's Stainless Steel Center Standoff Connectors are designed to support .470" (11.9 mm) diameter Stainless Steel Crossbar Rod. Our easy slip fit design allows for seamless installations. No special welding or fabrication required. When attaching to the post use our Cat. No. SRB0LT 1/4"-20 x 1" (25 mm) Bolt.

Set Screw (2.5 mm)

.875" (22 mm) 1.187" (30 mm)

.485" (12.3 mm)

Bottom View of Standoff with Radius Back

7/8" (22 mm) Diameter Standoff Connector Supplied With Radius Adapter

Supports .470" (11.9 mm) Diameter Stainless Steel Crossbar (Sold Separately)

CAT. NO.	GRADE	FINISH
CBR5BS	316	Brushed Stainless
CBR5PS	316	Polished Stainless

Minimum order: 1 each. All Crossbar Connectors can be combined for quantity pricing.

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CRL CROSSBAR RAILING INFILL SYSTEM

CRL Left End Standoff Connector
(Flat Back)

- For Square Post Applications
- Surface Mount Design With No Exposed Fasteners
- Supports .470" (11.9 mm) Diameter Crossbar
- Easy Slip Fit Mounting
- 316 Grade Stainless Steel

CRL's Stainless Steel Standoff Connectors are designed to support CRL .470" (11.9 mm) diameter Stainless Steel Crossbar Rod. Our easy slip fit design allows for seamless installations. No special welding or fabrication required. When attaching to the post use our Cat. No. SRB0LT 1/4"-20 x 1" (25 mm) bolt.

Set Screw (2.5 mm)
1.187" (30 mm)
.875" (22 mm)
.485" (12.3 mm)
Bottom View of Standoff With Flat Back

7/8" (22 mm) Diameter Standoff Connector Supplied With Flat Back Adapter

Supports .470" (11.9 mm) Diameter Stainless Steel Crossbar (Sold Separately)

CAT. NO.	GRADE	FINISH
CBR6BS	316	Brushed Stainless
CBR6PS	316	Polished Stainless

Minimum order: 1 each. All Crossbar Connectors can be combined for quantity pricing.

CRL Right End Standoff Connector
(Flat Back)

- For Square Post Applications
- Surface Mount Design With No Exposed Fasteners
- Supports .470" (11.9 mm) Diameter Crossbar
- Easy Slip Fit Mounting
- 316 Grade Stainless Steel

CRL's Stainless Steel Standoff Connectors are designed to support CRL .470" (11.9 mm) diameter Stainless Steel Crossbar Rod. Our easy slip fit design allows for seamless installations. No special welding or fabrication required. When attaching to the post use our Cat. No. SRB0LT 1/4"-20 x 1" (25 mm) bolt.

Set Screw (2.5 mm)
1.187" (30 mm)
.875" (22 mm)
.485" (12.3 mm)
Bottom View of Standoff With Flat Back

7/8" (22 mm) Diameter Standoff Connector Supplied With Flat Back Adapter

Supports .470" (11.9 mm) Diameter Stainless Steel Crossbar (Sold Separately)

CAT. NO.	GRADE	FINISH
CBR7BS	316	Brushed Stainless
CBR7PS	316	Polished Stainless

Minimum order: 1 each. All Crossbar Connectors can be combined for quantity pricing.

CRL Center Standoff Connector
(Flat Back)

- For Square Post Applications
- Surface Mount Design With No Exposed Fasteners
- Supports .470" (11.9 mm) Diameter Crossbar
- Easy Slip Fit Mounting With No Special Welding or Fabrication
- 316 Grade Stainless Steel

For center posts, CRL's Stainless Steel Center Standoff Connectors are designed to support .470" (11.9 mm) diameter Stainless Steel Crossbar Rod. Our easy slip fit design allows for seamless installations. No special welding or fabrication required. When attaching to the post use our Cat. No. SRB0LT 1/4"-20 x 1" (25 mm) bolt.

Set Screw (2.5 mm)
1.187" (30 mm)
.875" (22 mm)
.485" (12.3 mm)
Bottom View of Standoff With Flat Back

7/8" (22 mm) Diameter Standoff Connector Supplied With Flat Back Adapter

Supports .470" (11.9 mm) Diameter Stainless Steel Crossbar (Sold Separately)

CAT. NO.	GRADE	FINISH
CBR8BS	316	Brushed Stainless
CBR8PS	316	Polished Stainless

Minimum order: 1 each. All Crossbar Connectors can be combined for quantity pricing.

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CRL US ALUMINUM

CRL WRS Welded Post Railing System for Use With Glass Infill Panels

- Available in 1-1/2" Schedule 40 Pipe, 1.90" (48 mm) Outside Diameter
- Also Available in 2" (51 mm) O.D. Square Pipe
- Polished or Brushed Stainless Steel, Polished or Satin Brass, Mill or Powder Coated Aluminum
- Glass is Secured With Our Z-Series Glass Clamps, Custom Standoffs or Spider Fittings
- Custom Fabricated to Your Specifications

US ALUMINUM MANUFACTURED IN THE USA

USE MONOLITHIC TEMPERED GLASS

CRL WRS Welded Post Railing Systems for use with glass infill panels are custom fabricated to the customer's specifications. They are available in 1-1/2" Schedule 40 Pipe and 2" (51 mm) Square Profile Pipe. Polished stainless steel or brushed stainless steel finishes are available from stock, as well as polished or satin brass, mill and powder coated aluminum. Other diameters and finishes are available on special order. All WRS Post Rails are supplied with Internal Splice Connectors and accessories required for completing the system.

Welded Construction

CRL WRS Post Railings are constructed using welded intersections and Internal Splice Connectors to produce a custom job site fabricated look, but with the convenience of a modular system.

Integrated Hand Railing and Brackets

CRL Hand Railings can be combined with Post Railings using Standard Post Mount Brackets found on pages 360B-370B, or with custom designed brackets to meet any design need.

Various Mounting Options

CRL WRS Post Railings can be fabricated with a Welded Floor Flange for surface mounting to various substrates and angles. An optional cover is available to provide a more finished look. See page 328B.

CRL WRS Post Railings can be fabricated for core mount into the concrete substrate. A minimum 8" (203 mm) embedment depth is required. Always consult local code requirements.

CRL has Fascia Mount Brackets to meet your design needs. As with all railing applications, proper engineering is required to ensure code compliance and safety. See pages 330B-331B.

A Variety of Glass Securing Options

CRL Z-Series Glass Clamps are used as the standard means of securing glass infill panels, and are stocked in a variety of finishes and sizes. See pages 306B-313B.

CRL's line of Spider Fittings is especially designed for use on Post Railings. See pages 315B-319B for details.

CRL Double Arm Glass Fittings are designed for straight or segmented applications. See pages 292B-293B for details.

CRL offers infinite design options with the use of Standoffs in your Post Railing projects. Consult CRL Technical Sales for information on Custom Standoff needs.

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CRL US ALUMINUM

CRL WRS Welded Post Railing System for Use With Glass, Cable, and Stainless Crossbar Infill Options

- Square and Round Tubing Profiles Fabricated by CRL and Ready to Install
- Surface Mount, Core Mount, and Fascia Mount Options Available
- Meets and Exceeds Guard Rail Load Requirements
- Many Infill Options to Select From
- Components Also Available to Construct Your Own System

USE MONOLITHIC TEMPERED GLASS

Select From Two Corner Styles - Mitered or Bent

Standard Mitered Corner

Standard Bent Corner

Standard Welded Intersection

CRL WRS Welded Post Railing Systems are designed to meet and exceed the strictest building code requirements and support a wide range of infill panels. Glass, metal, and stainless steel crossbars are just a few examples. These innovative systems are designed and fabricated to order based on your requirements. Contact CRL today and let us produce your next custom fabricated welded railing system.

2" (51 MM) ROUND FABRICATED POST RAIL SYSTEM

CAT. NO.	DESCRIPTION	GRADE	FINISH
PR1540BS	Fabricated 1.9" O.D. Post	304	Brushed Stainless
PR1540PS	Fabricated 1.9" O.D. Post	304	Polished Stainless
PR1540M	Fabricated 1.9" O.D. Post	6063	Mill Finish Aluminum
PR1540PB	Fabricated 2" O.D. Post	C260	Polished Brass
PR1540SB	Fabricated 2" O.D. Post	C260	Satin Brass

Minimum order: 1 each.

2" (51 MM) SQUARE FABRICATED POST RAIL SYSTEM

CAT. NO.	DESCRIPTION	GRADE	FINISH
PRS1540BS	Fabricated 2" O.D. Square Post	304	Brushed Stainless
PRS1540PS	Fabricated 2" O.D. Square Post	304	Polished Stainless
PRS1540M	Fabricated 2" O.D. Square Post	6063	Mill Finish Aluminum

Minimum order: 1 each.

Typical Mounting Options

CRL WRS Welded Post Railing System
Typical Mounting Options

Fascia Mount 1.9" (48 mm) Diameter Outside 90 Degree Post Kits

Fascia Mount 1.9" (48 mm) Diameter Inside 90 Degree Post Kits

Core Mount 1.9" (48 mm) Diameter Post Kits

Fascia Mount 1.9" (48 mm) Diameter Post Kits

Fascia Mount 2" (51 mm) Square Post Kits

Surface Mount 2" (51 mm) Square Post Kits

Core Mount 2" (51 mm) Square Post Kits

Surface Mount 1.9" (48 mm) Diameter Post Kits
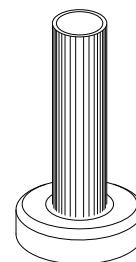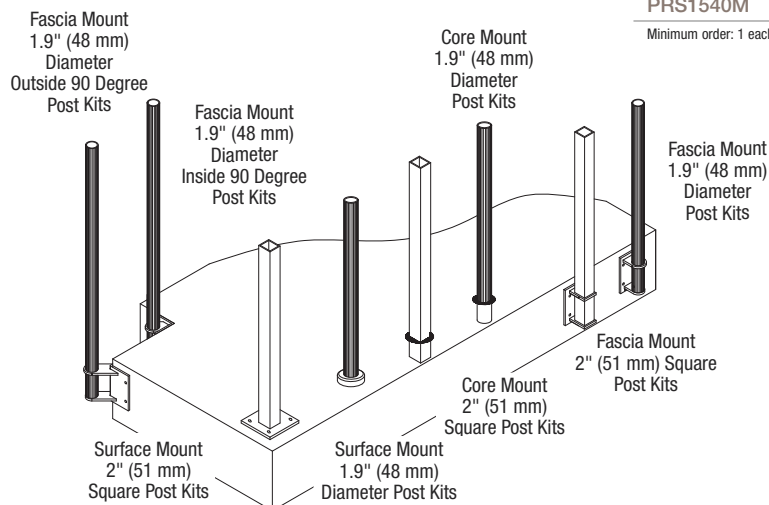
Surface Mount Installation
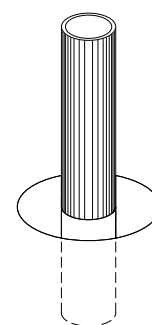
Core Mount Installation
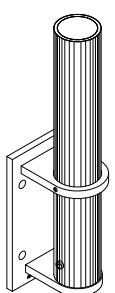
Fascia Mount Installation

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Basic Installation Instructions

1. Railing Installation

Assemble and layout the pre-fabricated railing sections per the approved layout/shop drawings. Measure and check lengths and heights. When anchoring the railing sections to the substrate be sure to use the correct mounting hardware. Ensure that the railing system is plumb level.
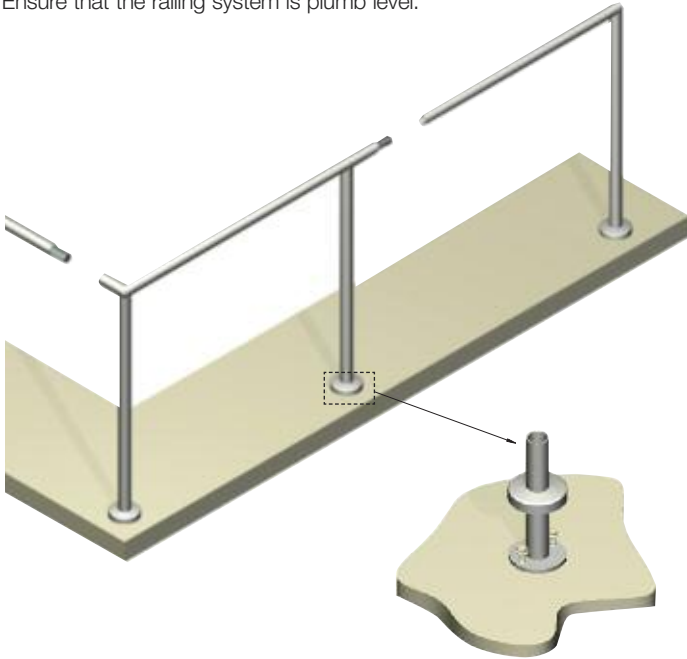
2. Splice Sleeve Installation

Install internal splices at all railing joints with CRL Cat. No. 7649 Primer and Cat. No. 32629 Metal Contact Cement (see page 303B) during the assembly of the pre-fabricated sections.
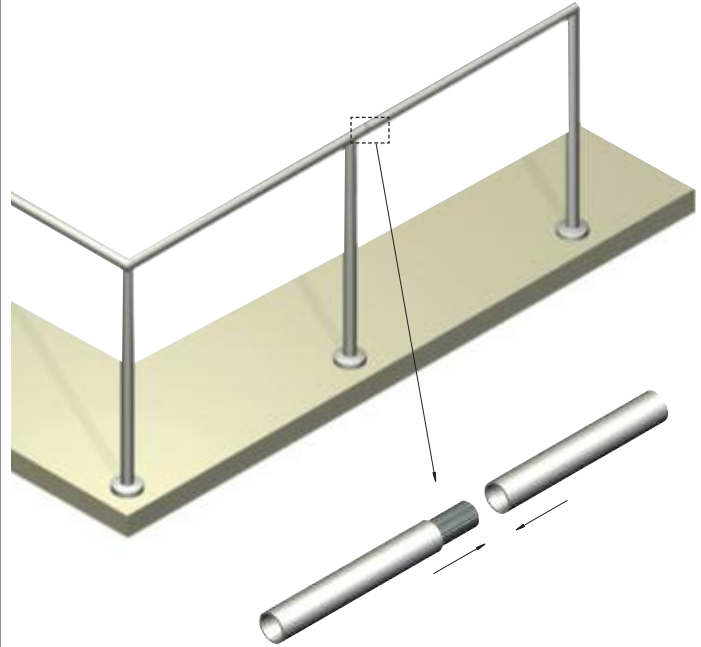
3. Glass Fitting Installation

After the pre-fabricated sections have been fully assembled and attached to the substrate, install the glass attachment fittings to the pre-drilled and tapped holes on the posts. These glass attachment fittings are used to hold the glass in place as an infill.
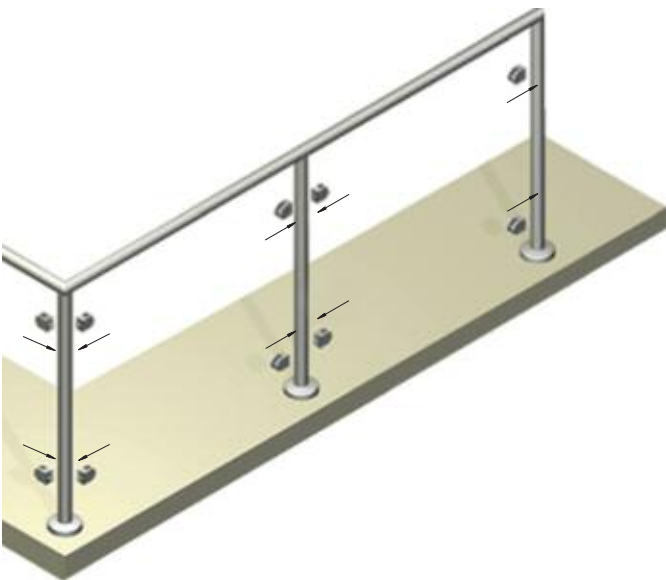
4. Glass Installation
(Glass Panels Only)

After the railing system has been fully installed, measure to determine your glass panel sizes with hole locations as required. When installing the glass infill panels remember to remove the glass fitting caps or back plate and align the glass panels to the mounting hardware.

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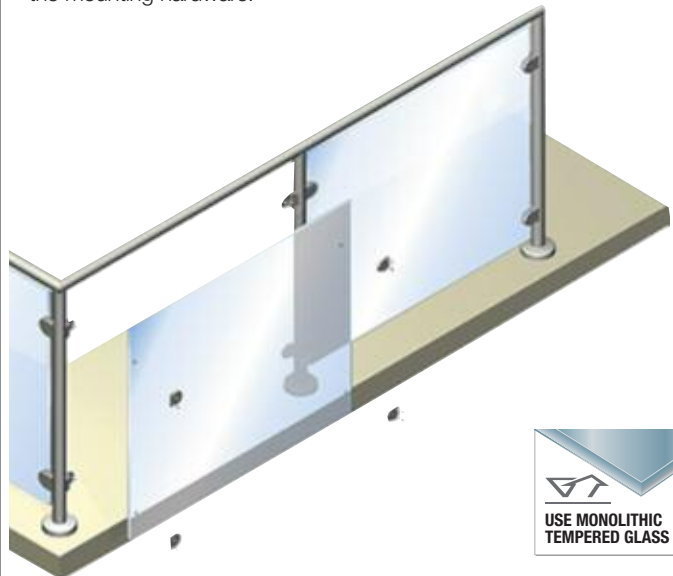
CRL 1-1/4" Schedule 40 Pipe Rail Tubing

- 1.66" (42 mm) Outside Diameter
- Designed for Guard Rail, Hand Rail, Stairway, and Handicap Ramp Areas
- Available in Polished or Brushed Stainless Steel
- Available in Stock Lengths or Custom Fabricated to Your Specifications

.140" (3.6 mm) Wall Thickness
1.66" (42 mm)

CRL's 1-1/4" Schedule 40 Pipe Rail Tubing is designed for guard rail, hand rail, stairway, and handicap ramp areas. Formed using precision tooling to maintain uniform diameters and smooth hairline transitions at splice and end cap locations. Use of our Cat. No. 7649 Primer and Cat. No. 32629 Metal Contact Cement (see page 303B) is required to achieve a secure and permanent bond at all connections.
NOTE: Brushed Stainless has a hairline linear finish.

CAT. NO.	GRADE	FINISH	LENGTH	USE SLEEVE NO.
PR12BS10	304	Brushed Stainless	120" (3.05 m)	PR16CSS
PR12BS20	304	Brushed Stainless	240" (6.10 m)	PR16CSS
PR12PS10	304	Polished Stainless	120" (3.05 m)	PR16CSS
PR12PS20	304	Polished Stainless	240" (6.10 m)	PR16CSS

Minimum order: 1 each. All sizes and finishes can be combined for quantity pricing. Must ship via common carrier.

CRL 1-1/2" Schedule 40 Pipe Rail Tubing

- 1.9" (48 mm) Outside Diameter
- Designed for Guard Rail, Hand Rail, Stairway, and Handicap Ramp Areas
- Available in Polished or Brushed Stainless Steel
- Available in Stock Lengths or Custom Fabricated to Your Specifications

Surface Mount Stanchions Sold Separately (see page 295B)

.145" (3.7 mm) Wall Thickness
1.9" (48 mm)

CRL's 1-1/2" Schedule 40 Pipe Rail Tubing is designed for guard rail, hand rail, stairway, and handicap ramp areas. Formed using precision tooling to maintain uniform diameters and smooth hairline transitions at splice and end cap locations. Use of our Cat. No. 7649 Primer and Cat. No. 32629 Metal Contact Cement (see page 303B) is required to achieve a secure and permanent bond at all connections.
NOTE: Brushed Stainless has a hairline linear finish.

CAT. NO.	GRADE	FINISH	LENGTH	USE SLEEVE NO.
PR15BS10	316	Brushed Stainless	120" (3.05 m)	PR19CSS
PR15BS20	316	Brushed Stainless	240" (6.10 m)	PR19CSS
PR15PS10	316	Polished Stainless	120" (3.05 m)	PR19CSS
PR15PS20	316	Polished Stainless	240" (6.10 m)	PR19CSS

Minimum order: 1 each. All sizes and finishes can be combined for quantity pricing. Must ship via common carrier.

CRL 2" Square O.D. Pipe Rail Tubing

- 2" (51 mm) Outside Diameter
- Designed for Guard Rail, Hand Rail, Stairway, and Handicap Ramp Areas
- Available in Polished or Brushed Stainless Steel
- Available in Stock Lengths or Custom Fabricated to Your Specifications

Surface Mount Stanchions Sold Separately (see page 295B)

.187" (4.8 mm) Wall Thickness
2" (51 mm)
Radius 9/32" (7 mm)
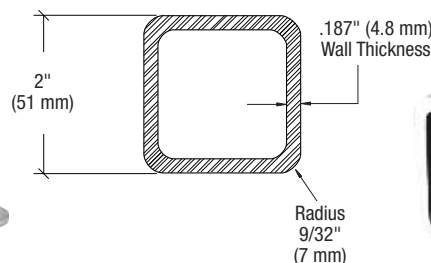
CRL's 2" Square Pipe Rail Tubing is designed for guard rail, hand rail, stairway, and handicap ramp areas. Formed using precision tooling to maintain uniform diameters at all four corners for smooth hairline transitions at splice and end cap locations. Use of our Cat. No. 7649 Primer and Cat. No. 32629 Metal Contact Cement (see page 303B) is required to achieve a secure and permanent bond at all connections.
NOTE: Brushed Stainless has a hairline linear finish.

CAT. NO.	GRADE	FINISH	LENGTH	USE SLEEVE NO.
PR2BS10	316	Brushed Stainless	120" (3.05 m)	PR20CSS
PR2BS20	316	Brushed Stainless	240" (6.10 m)	PR20CSS
PR2PS10	316	Polished Stainless	120" (3.05 m)	PR20CSS
PR2PS20	316	Polished Stainless	240" (6.10 m)	PR20CSS

Minimum order: 1 each. All sizes and finishes can be combined for quantity pricing. Must ship via common carrier.

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CRL End Caps for Pipe Rails

- Ready to Install
- 304 Grade Stainless
- Custom End Caps are Also Available

CRL End Caps easily slip into our Schedule 40 and Square Pipe Rails for a finished look. Use of our Cat. No. 7649 Primer and Cat. No. 32629 Metal Contact Cement (see page 303B) is required to achieve a secure and permanent bond at all connections.

PR12EC

PR15EC

PRS2EC

FOR 1-1/4" SCHEDULE 40 PIPE RAIL 1.66" (42 MM) O.D.

CAT. NO.	FINISH	FITS PIPE RAIL NO.
PR12ECBS	Brushed Stainless	PR12BS
PR12ECPS	Polished Stainless	PR12PS

Minimum order: 1 each. All Railing End Caps can be combined for quantity pricing.

FOR 1-1/2" SCHEDULE 40 PIPE RAIL 1.9" (48 MM) O.D.

CAT. NO.	FINISH	FITS PIPE RAIL NO.
PR15ECBS	Brushed Stainless	PR15BS
PR15ECPS	Polished Stainless	PR15PS

Minimum order: 1 each. All Railing End Caps can be combined for quantity pricing.

FOR 2" (51 MM) SQUARE PIPE RAIL .187" (5 MM) WALL THICKNESS

CAT. NO.	FINISH	FITS PIPE RAIL NO.
PRS2ECBS	Brushed Stainless	PR2BS
PRS2ECPS	Polished Stainless	PR2PS

Minimum order: 1 each. All Railing End Caps can be combined for quantity pricing.

CRL Base Flanges for Schedule 40 Pipe Railings

- Flanges for 1.66" (42 mm) O.D. and 1.9" (48 mm) O.D. Tubing
- Designed to be Welded to the Post Base
- Fastened With 3/8" (10 mm) Anchor Bolts

CRL Base Flanges are available for concrete, steel, and wood substrates. Fastened with 3/8" (10 mm) anchor bolts, these Base Flanges need to be welded to the post base during fabrication. Base Flange Covers are sold separately (see below).

3/8" (10 mm)

Concrete/Steel Mount

3/8" (10 mm)

Wood Mount

9/16" (14 mm) Diameter Mounting Holes

3-1/2" (89 mm)

4-3/4" (121 mm)

9/16" (14 mm) Diameter Mounting Holes

1-1/4" (32 mm)

3" (76 mm)

4-3/4" (121 mm)
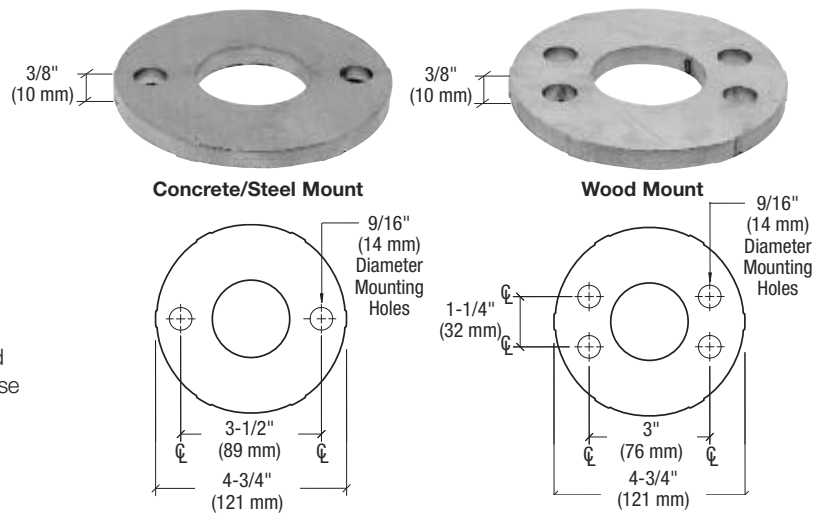
CAT. NO.	FITS	MOUNTING STYLE	MATERIAL
PR12FCS	1-1/4" (32 mm) Sch. 40 Pipe Rail	Concrete/Steel Mount	304 Grade Stainless Steel
PR12FWS	1-1/4" (32 mm) Sch. 40 Pipe Rail	Wood Mount	304 Grade Stainless Steel
PR15FCS	1-1/2" (38 mm) Sch. 40 Pipe Rail	Concrete/Steel Mount	304 Grade Stainless Steel
PR15FWS	1-1/2" (38 mm) Sch. 40 Pipe Rail	Wood Mount	304 Grade Stainless Steel

Minimum order: 1 each. All Post Base Plates can be combined for quantity pricing.

CRL Base Flange Covers

- Available in Standard and Low Profile Models
- Snap Over Covers for Use on Surface, Stair, Ramp or Core Mount Applications

These CRL Covers conceal the base plate and anchor bolts or concrete in core mount applications.

1-3/16" (30 mm)

Standard

4-7/8" (124 mm) Base Flange Covers

15/32" (12 mm)

Low Profile

4-3/8" (111 mm) Core Mount Covers
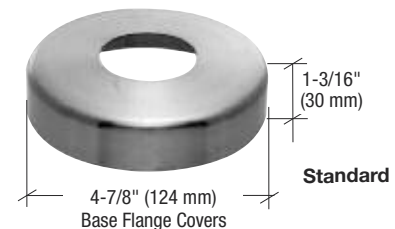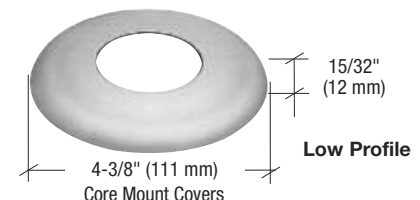
CAT. NO.	DESCRIPTION	GRADE	FINISH
CR12SPCBS	Standard for 1-1/4" (32 mm) Sch. 40 Pipe Rail	316	Brushed Stainless
CR12SPCPS	Standard for 1-1/4" (32 mm) Sch. 40 Pipe Rail	316	Polished Stainless
CR15SPCBS	Standard for 1-1/2" (38 mm) Sch. 40 Pipe Rail	316	Brushed Stainless
CR15SPCPS	Standard for 1-1/2" (38 mm) Sch. 40 Pipe Rail	316	Polished Stainless
CR15LPCBS	Low Profile for 1-1/2" (38 mm) Sch. 40 Pipe Rail	304	Brushed Stainless
CR15LPCPS	Low Profile for 1-1/2" (38 mm) Sch. 40 Pipe Rail	304	Polished Stainless

Minimum order: 1 each. All Base Flange Covers can be combined for quantity pricing.

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CRL Pipe Rail Splice Connectors

- Provide Proper Alignment Between Railing Splices
- Shaped to Fit and Ready to Install in Pipe Railings

CRL Pipe Rail Splice Connectors are used to connect and provide proper alignment between railing splice locations. Use of our Cat. No. 7649 Primer and Cat. No. 32629 Metal Contact Cement (see page 303B) is required to achieve a secure and permanent bond at all connections.

Important Installation Note: Always Use Connector Sleeves made of the same metal as the Cap Rail, Cap Rail Corner, or Hand Rail Metal

PR16CSS
Stainless Steel

PR19CSS
Stainless Steel

GR19CSM
Aluminum

PR20CSS
Stainless Steel

PR20CSM
Aluminum

5" (127 mm)

CAT. NO.	FOR USE WITH	MATERIAL
PR16CSS	1-1/4" Sch. 40 1.66" (42 mm) Tubing	Stainless Steel
PR19CSS	1-1/2" Sch. 40 1.9" (48 mm) Tubing	Stainless Steel
GR19CSM	1-1/2" Sch. 40 1.9" (48 mm) Tubing	Mill Finish Aluminum
PR20CSS	2" (51 mm) Square Pipe Rail	Stainless Steel
PR20CSM	2" (51 mm) Square Pipe Rail	Mill Finish Aluminum

Minimum order: 1 each. All Splice Connectors can be combined for quantity pricing.
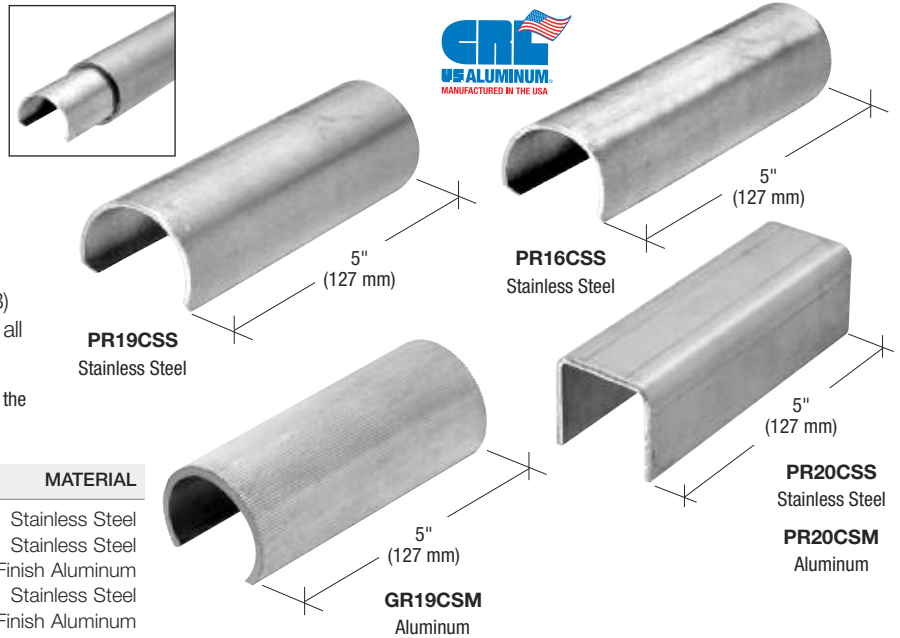
CRL Base Flange for 2" Square Pipe Rail

- Flanges for 2" (51 mm) O.D. Square Tubing
- Designed to be Welded to the Post's Base
- For Mounting on Concrete, Steel, or Wood Substrates
- Uses 3/8" (10 mm) Anchor Bolts

9/16" (14 mm) Diameter Mounting Holes

316 Grade

3-3/4" (95 mm)

3/8" (10 mm) Thick

5" (127 mm)

5" (127 mm)

CAT. NO.	GRADE	FITS
PRS2CS	316	2" (51 mm) O.D. Square Pipe Tubing

Minimum order: 1 each.
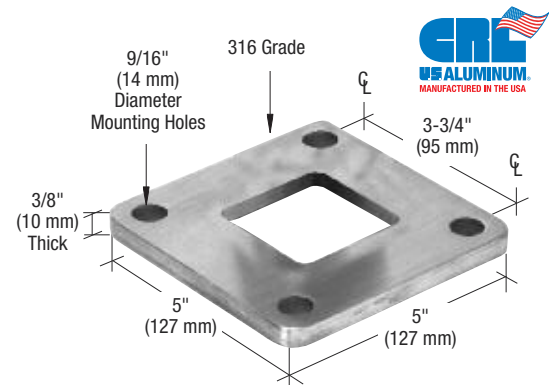
Concrete, Steel, and Wood Mount

CRL Base Flange Covers

- Designed to Cover 5" x 5" (127 x 127 mm) Welded Flanges on 2" (51 mm) O.D. Square Tubing
- 1" (25 mm) Standard Height
- Available in Brushed and Polished Stainless Steel

This CRL Base Flange Cover for 2" (51 mm) O.D. Square Pipe Rail Tubing is designed to snap over the 5" x 5" (127 x 127 mm) Base Flange and conceal the anchor bolts. Use Cat. No. 95CBL Silicone (see page 125B) for a secure attachment.

1" (25 mm)

5-1/8" (130 mm)

5-1/8" (130 mm)

CAT. NO.	GRADE	FINISH
CR16SPCBS	304	Brushed Stainless
CR16SPCPS	304	Polished Stainless

Minimum order: 1 each.

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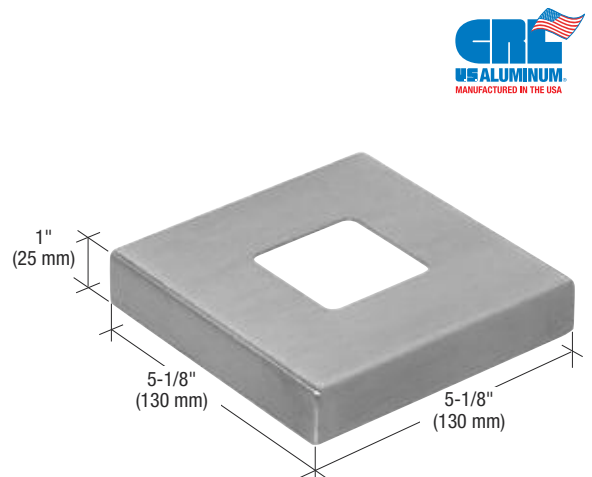
CRL 1.9" Round Post Standard Fascia Mount Bracket

- For Use With 1-1/2" Schedule 40, 1.9" (48 mm) O.D. Center and End Posts
- 316 Grade Stainless Steel

CRL WRS Standard Fascia Mount Brackets are designed for use with 1.9" diameter round center or end posts. Four fasteners, not included, are required for mounting. A structural engineer should be consulted for proper fastener selection. **NOTE:** Not for use with thin wall tubing.
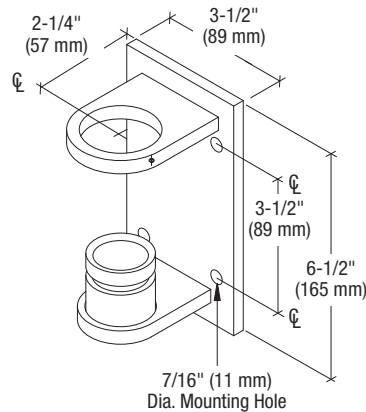
CAT. NO.	GRADE	FINISH
CR15FBBS	316	Brushed Stainless
CR15FBPS	316	Polished Stainless

Minimum order: 1 each. All Fascia Mount Brackets can be combined for quantity pricing.

CRL 1.9" Round Post Inside Corner Fascia Mount Bracket

- For Use With 1-1/2" Schedule 40, 1.9" (48 mm) O.D. Inside 90 Degree Corner Posts
- 316 Grade Stainless Steel
- Custom Corners Available Upon Request

CRL WRS Inside Corner Fascia Mount Brackets are designed for use at inside corners of your railing, eliminating the need to double-up on the posts at the corner. Four fasteners, not included, are required for mounting. A structural engineer should be consulted for proper fastener selection. **NOTE:** Not for use with thin wall tubing.

CAT. NO.	GRADE	FINISH
CR151FBBS	316	Brushed Stainless
CR151FBPS	316	Polished Stainless

Minimum order: 1 each. All Fascia Mount Brackets can be combined for quantity pricing.

CRL 1.9" Round Post Outside Corner Fascia Mount Bracket

- For Use With 1-1/2" Schedule 40, 1.9" (48 mm) O.D. Outside 90 Degree Corner Posts
- 316 Grade Stainless Steel
- Custom Corners Available Upon Request

CRL WRS Outside Corner Fascia Mount Brackets are designed for use at outside corners of your railing, eliminating the need to double-up on the posts at the corner. Four fasteners, not included, are required for mounting. A structural engineer should be consulted for proper fastener selection. **NOTE:** Not for use with thin wall tubing.

CAT. NO.	GRADE	FINISH
CR150FBBS	316	Brushed Stainless
CR150FBPS	316	Polished Stainless

Minimum order: 1 each. All Fascia Mount Brackets can be combined for quantity pricing.

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TOLL Phone: (800) 421-6144
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CRL US ALUMINUM

CRL 2" Square Post Standard Fascia Mount Bracket
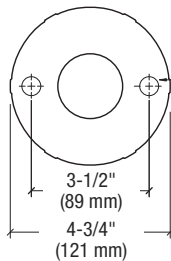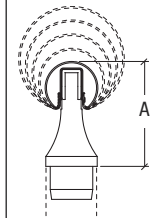
- For Use With 2" (51 mm) Square .187" (5 mm) Wall Thickness Center and End Posts
- 316 Grade Stainless Steel

CRL WRS Square Standard Fascia Mount Brackets can be used with 2" (51 mm) square center or end posts. Four fasteners, not included, are required for mounting. A structural engineer should be consulted for proper fastener selection.

NOTE: Not for use with thin wall square tubing.

CAT. NO.	GRADE	FINISH
CR2FBBS	316	Brushed Stainless
CR2FBPS	316	Polished Stainless

Minimum order: 1 each. All Fascia Mount Brackets can be combined for quantity pricing.

CRL 2" Square Post Inside Corner Fascia Mount Bracket

- For Use With 2" (51 mm) Square .187" (5 mm) Wall Thickness Inside 90 Degree Corner Posts
- Custom Corners Available Upon Request
- 316 Grade Stainless Steel

CRL WRS Inside Corner Fascia Mount Brackets are designed for use at inside corners of your railing, eliminating the need to double-up on the posts at the corner. Four fasteners, not included, are required for mounting. A structural engineer should be consulted for proper fastener selection.

NOTE: Not for use with thin wall square tubing.

CAT. NO.	GRADE	FINISH
CR21FBBS	316	Brushed Stainless
CR21FBPS	316	Polished Stainless

Minimum order: 1 each. All Fascia Mount Brackets can be combined for quantity pricing.

CRL 2" Square Post Outside Corner Fascia Mount Bracket

- For Use With 2" (51 mm) Square .187" (5 mm) Wall Thickness Outside 90 Degree Corner Posts
- Custom Corners Available Upon Request
- 316 Grade Stainless Steel

CRL WRS Outside Corner Fascia Mount Brackets are designed for use at outside corners of your railing, eliminating the need to double-up on the posts at the corner. Four fasteners, not included, are required for mounting. A structural engineer should be consulted for proper fastener selection.

NOTE: Not for use with thin wall square tubing.

CAT. NO.	GRADE	FINISH
CR20FBBS	316	Brushed Stainless
CR20FBPS	316	Polished Stainless

Minimum order: 1 each. All Fascia Mount Brackets can be combined for quantity pricing.

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CRL US ALUMINUM

CRL WRS Welded Post Railing System With Cable Infill

- Available in 1-1/2" Schedule 40 Pipe, 1.9" (48 mm) Outside Diameter
- Polished or Brushed Stainless Steel, and Mill or Powder Coated Aluminum Finishes
- Uses 1/8" or 3/16" (3 or 5 mm) Diameter 1 x 19 316 Grade Stainless Steel Uncoated Cable
- Custom Fabricated to Your Specifications

CRL WRS Welded Post Railing Systems for Cable Infill are custom fabricated to the customer's specifications. The standard offering is in 1-1/2" Schedule 40 Pipe, but diameters are available on special order. Polished stainless steel or brushed stainless steel finishes are available from stock, as well as mill aluminum. Powder coated finishes are available on special order. All WRS Post Rails are supplied with Internal Splice Connectors, Cable, and all accessories required for completing the system. For more information on fasteners and accessories, visit **crlaurence.com/cable**.

CAT. NO.	DESCRIPTION	MATERIAL	FINISH
PRC1540BS	Fabricated 1-1/2" Sch. 40 1.9" O.D. Post Rail System with Cable	316 Grade Stainless	Brushed Stainless
PRC1540PS	Fabricated 1-1/2" Sch. 40 1.9" O.D. Post Rail System with Cable	316 Grade Stainless	Polished Stainless
PRC1540M	Fabricated 1-1/2" Sch. 40 1.9" O.D. Post Rail System with Cable	Aluminum	Mill

Minimum order: 1 each. Drawings with dimensions are required for quotes and order request.

CRL Stainless Steel Cables

- 1/8" and 3/16" (3 and 5 mm) Diameter 1 x 19 Construction 316 Grade Stainless Steel Cables
- Uncoated and Low Maintenance

CRL Stainless Steel Cable is an infill option for any of our railing systems. Recommended spacing between cables is 3" (76 mm) center-to-center. The 1 x 19 construction cables are engineered to hold static loads without stretching, and are relatively stiff. Roll length is 250 feet (76.2 m). Minimum order is one roll. See below for Pre-Cut Cable Kits .

1/8" (3 mm) Diameter

CAT. NO. CBL18

3/16" (5 mm) Diameter
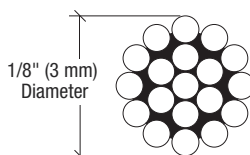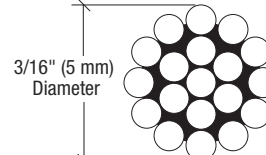
CAT. NO. CBL316

CRL 1 x 19 Construction Stainless Steel Cable is designed with 19 separate wires twisted into a single strand. See page 335B for Cable Installation Tools.

CRL Pre-Cut Stainless Steel Cable Kits

- 316 Grade Stainless Steel in 1/8" and 3/16" (3 and 5 mm) Diameters
- Four Pre-Cut Lengths, as Well as Custom Lengths
- Factory Installed Swaging Stud
- No Special Equipment Required for Installation

CRL Pre-Cut Stainless Steel Cable Kits are offered in two diameters, and four standard lengths, as well as custom lengths. Included with each kit: one pre-cut 1/8" (3 mm) or 3/16" (5 mm) diameter 1 x 19 construction 316 Grade Stainless Steel Cable, one Swaging Stud factory installed on the Cable, one Tensioning Receiver, and one Pull-Lock. Recommended maximum spacing between cables is 3" (76 mm) center-to-center. The 1 x 19 construction cable is engineered to hold static loads without stretching, and is relatively stiff. The maximum cable run is 50 feet (15.2 m). Post spacing not to exceed 42" (1.06 m) on center.

Pull-Lock

Swaging Stud Factory Installed

Tensioning Receiver

Cable

7/16" (11 mm) Dia. Hole in Post

1.9" (48 mm) Dia. Post

7/16" (11 mm) Dia. Hole in Post

1/4" (6 mm) Dia. Hole in Post

7/16" (11 mm) Dia. Hole in Post

1/4" (6 mm) Dia. Hole in Post

1/8" (3 mm) or 3/16" (5 mm) Dia. Cable

Tensioning Receiver End Post

Center Post

Pull-Lock End Post
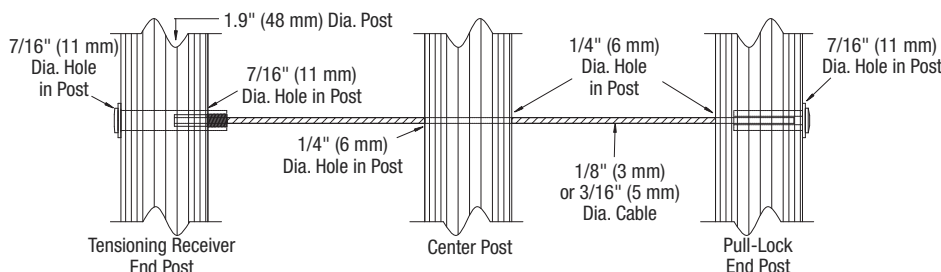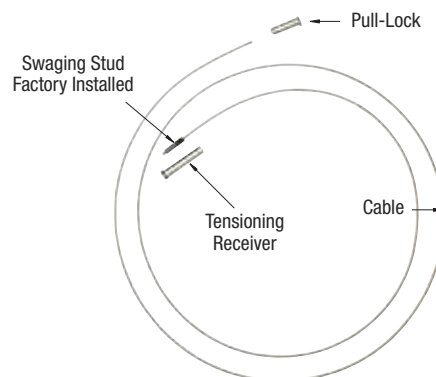
1/8" (3 MM) CAT. NO.	3/16" (5 MM) CAT. NO.	LENGTH
CBL188K	CBL3168K	8' (2.4 m)
CBL1818K	CBL31618K	18' (5.5 m)
CBL1836K	CBL31636K	36' (11 m)
CBL1851K	CBL31651K	51' (15.5 m)
CBL18KC	CBL316KC	Custom Length*

Minimum order: 1 each. *Must specify custom length at time of order.

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CRL US ALUMINUM

CRL Tensioning Receivers

- For Use With 1/8" and 3/16" (3 and 5 mm) Diameter 1 x 19 Construction 316 Grade Stainless Steel Cables
- Mounts to Aluminum, Wood or Stainless Steel Posts

The CRL Tension Receiver is a tensioning device hidden inside the end post, with only the head of the Receiver exposed on the outside of the post. It allows the Cable to be adjusted between spans. The inside is female-threaded to accept the male-threaded Cat. No. SWGST Swaging Stud (see below) that is attached to the Cable. Requires 3/16" hex wrench to fasten. 7/16" (11 mm) diameter clear hole is required when drilling post for fitting.
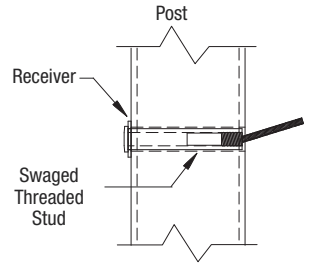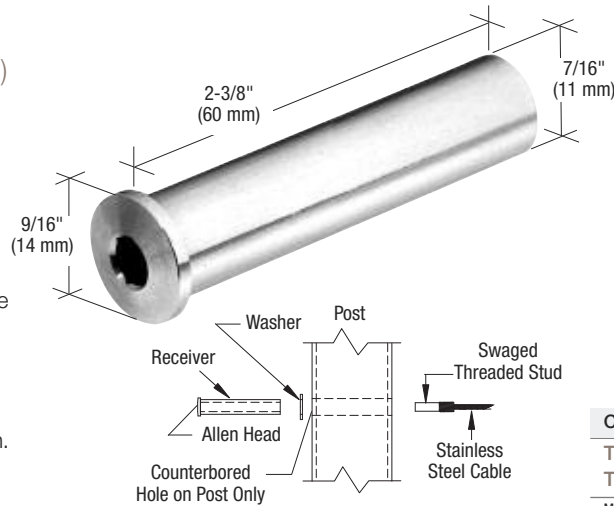
2-3/8" (60 mm) 7/16" (11 mm) 9/16" (14 mm)

Washer Post Receiver Swaged Threaded Stud Allen Head Counterbored Hole on Post Only Stainless Steel Cable

Post Receiver Swaged Threaded Stud

The Receiver can be used in a horizontal position on stair end posts that have a pitch up to 35 degrees. This eliminates the need to bore hardware holes at an angle on stair runs.

CAT. NO.	FITS CABLE DIAMETER
TENRR1	1/8" (3 mm)
TENRR2	3/16" (5 mm)

Minimum order: 1 each.

CRL Swagging Stud Fittings

- Secures Our 1/8" and 3/16" (3 and 5 mm) Diameter 1 x 19 Construction 316 Grade Stainless Steel Cables
- Designed for Aluminum, Wood or Stainless Steel Post Applications

5/16"-24 Thread 1-1/8" (29 mm)
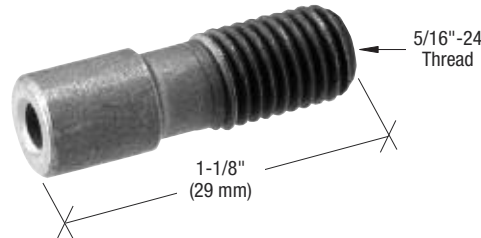
Swaged on the end of the Stainless Steel Cable, this part is used with the Tensioning Receiver. When installed, it is completely hidden inside the Fitting so you will never see any unattractive swaging marks. The threaded surface is coated with a baked-on, molybdenum based dry film lubricant to prevent the threads from galling when tensioned and in extreme environments. **NOTE**: Cat. No. CBLS1K Cable Swager Tool Kit (sold separately) is required for installation (see page 335B).
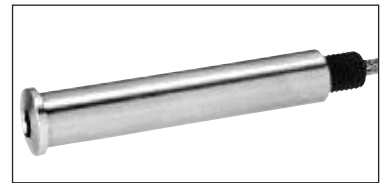
Threads into Tensioning Receiver (see above)

CAT. NO.	FITS CABLE DIAMETER
SWGST1	1/8" (3 mm)
SWGST2	3/16" (5 mm)

Minimum order: 1 each.

CRL Push-Lock Fittings

- For Use With Our 1/8" and 3/16" (3 and 5 mm) Diameter 1 x 19 Construction 316 Grade Stainless Steel Cables

The CRL Push-Lock Fitting is designed for use with an end post 1-1/2" (38 mm) or more in thickness. The Push-Lock Fitting is hidden inside the end post, with only the head exposed on the outside. A plastic washer is included and acts as a scratch resistant barrier between the Push-Lock Fitting and the post.

1-9/16" (40 mm) 7/16" (11 mm) 17/32" (14 mm)
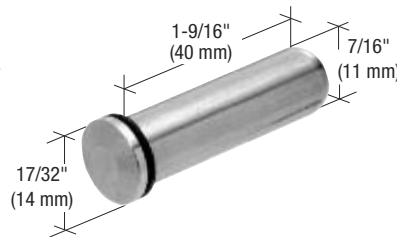
CAT. NO.	FITS CABLE DIAMETER
PL4SS	1/8" (3 mm)
PL6SS	3/16" (5 mm)

Minimum order: 1 each.

CRL Ferrule Fittings

- For Use on Fixed, Non-Tensioning End of Our 1/8" and 3/16" (3 and 5 mm) Diameter 1 x 19 Construction 316 Grade Stainless Steel Cable
- Mounts to Aluminum, Wood or Stainless Steel Posts

13/16" (21 mm) 9/16" (14 mm) 7/16" (11 mm)

Post Stainless Steel Cable Swaged Radius Ferrule Washer

When installed, the Ferrule Fitting is hidden inside the end post, with only the head exposed on the outside of the post. After it's installed, it looks the same as the Tensioning Receiver. **NOTE**: Cat. No. CBLS1K Cable Swager Tool Kit (sold separately) is required for installation (see page 335B).
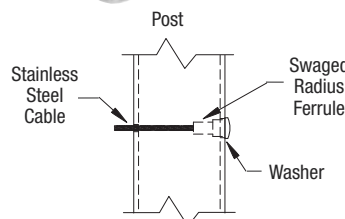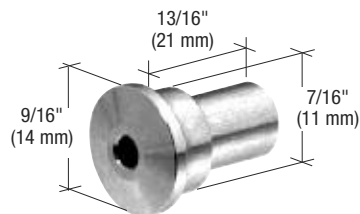
CAT. NO.	FITS CABLE DIAMETER
FXFRL1	1/8" (3 mm)
FXFRL2	3/16" (5 mm)

Minimum order: 1 each.

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CRL US ALUMINUM

CRL Ultra-tec® Pull-Lock Cable Fittings

- No Special Field Swaging Equipment Required
- Pull-Lock Fittings Make Installing Cable Easy
- 316 Grade Stainless Steel
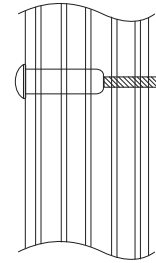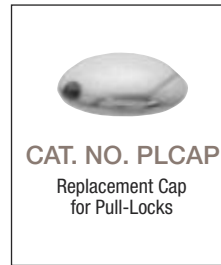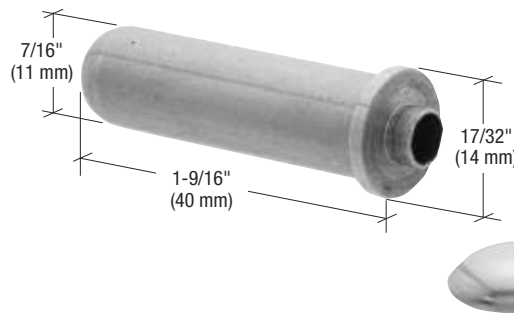
7/16" (11 mm)

17/32" (14 mm)

1-9/16" (40 mm)

CRL Ultra-tec® now offers a cable system that can be installed by hand. No special tools or swaging equipment required. Just tension the cables and cut the excess cable off the back side of the fitting using a Right Angle Grinder or Cutting Wheel. Press on the Stainless Steel Cap to cover the cable's end and you are done.

CAT. NO. PLCAP
Replacement Cap for Pull-Locks

PULL

CUT

CAP

CAT. NO.	FITS CABLE DIAMETER
PUL4SS	1/8" (3 mm)
PUL6SS	3/16" (5 mm)

Minimum order: 1 each.

CRL Cable Release Tool

- For Use With 1/8" (3 mm) Diameter Cable

This innovative tool allows the release of cable from Push Lock and Pull Lock type fittings before cables are tensioned.

CAT. NO.	FITS CABLE DIAMETER
PLKEY	1/8" (3 mm)

Minimum order: 1 each.

CRL Grommet Installation Tool Kit

If Cable Grommets are required, CRL's Grommet Installation Tool Kit is needed for proper alignment and installation. Simply place grommet over hole, insert tool and tap lightly with a hammer.

CAT. NO.	FITS CABLE DIAMETER
CBLGTK1	1/8" (3 mm)

Minimum order: 1 each.

CRL Cable Grommets

- Grommets Help Prevent Rust in Exterior Applications
- For Use With 1/8" (3 mm) Diameter Cable
- Designed for Square, Round, or Rectangular Posts With .120" (3 mm) Wall Thickness
- Made From Black UV Resistant Delrin

Cable Grommets provide a barrier between the cable and the powder coated post surface to help prevent rusting in exterior applications. The Grommets are installed when the cable is pulled through the drilled hole locations in the posts. For stairway or ramp conditions Cable Grommets are manufactured to support a pitch of up to 37 degrees.

Ultra-tec is a registered trademark of The Cable Connection Corp.

Grommet / Grommet / Installation Tool

Large Lip

Large Lip

Post / Fits 1/4" (6 mm) Dia. Hole

Use CRL CBLGTK1 Grommet Installation Tool Kit for Installation (Sold Separately, See Above)

CAT. NO.	DESCRIPTION	FITS CABLE DIAMETER
CBLG4	Grommets for Level Rails	1/8" (3 mm)
CBLG5	Grommets for Stairway Rails	1/8" (3 mm)

Minimum order: 100 each. Must be ordered in increments of 100.

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CRL Cable Installation Tools

- Everything for Installing Stainless Steel Cable Railing Systems
- Ensure Safety and an Attractive Installation by Employing the Proper Tools

Cable Railing Systems are increasingly popular, and CRL supports installers with a number of quality tools that will facilitate the safe and proper installation of the stainless steel cable used in these systems.

To be code compliant, all cables must be taut and properly fastened, and to do this you must have tools specifically intended for these purposes. The railing experts in our Architectural Railing Division have selected these tools because of their quality and sufficiency to perform their specific tasks. They always promote the use of the proper tools for these functions, as short-cutting the process by improvising with the improper tools can jeopardize the safety factor of a cable railing system.

CRL Ultra-tec® Cable Grip Locking Pliers

- Powerful Grip Without Damaging Cable

CRL Ultra-tec® Cable Grip Locking Pliers have machined jaws to grip the cable as you are tensioning it. This helps prevent damage to the cable while being tensioned. Minimum order is one each.

CAT. NO. CBLGP1

CRL Cable Cutter

- Top Quality, Pocket-Size Cutter

Shear-Cut Blades

These CRL Cable Cutters will cut thin stranded stainless steel wire cable up to 3/16" (5 mm) in diameter. Overall length is 7-1/2" (191 mm). Minimum order is one each.

CAT. NO. 0690TN

CRL Ultra-tec® Pre-Tensioner Locking Pliers

- Greater Ease When Working With Long Runs of Cable

The CRL Ultra-tec® Pre-Tensioner can be used when installing longer runs of cable. The tool allows you to tension the cable through the last intermediate post, making it easy to connect to the last end post. Minimum order is one each.

CAT. NO. CBLPT1

CRL Ultra-tec® Cable Cutter

- Ensures Burr-Free Cutting of Cable Up to 1/4" (6 mm) in Diameter

Use this CRL Ultra-tec® Cable Cutter for burr-free cutting of cable up to 1/4" (6 mm) in diameter. Overall length is 13-1/4" (337 mm). Minimum order is one each.

CAT. NO. CBLCTR1

CRL Ultra-tec® Tensioning Gauge

- Checks Tension on Standard Railing System Cable

Use this CRL Ultra-tec® Cable Tensioning Gauge to accurately check the tension on 1/8" and 3/16" (3 and 5 mm) diameter cables typically installed in cable railing systems. Minimum order is one each.

CAT. NO. CBLTG1

CRL Cable Swager Installation Tool Kit

- A Complete Kit for Working With Stainless Steel Cable

Kit Includes:
- Air Over Hydraulic Pump
- Air Hoses and Fittings
- Cable Grip Locking Pliers
- Cable Cutter
- Hand Held Swager
- Grommet Tool Set
- Allen Wrenches
- Safety Glasses
- Radius Ferrule/ Clip On Stop Gauge
- Tool Box

Air Over Hydraulic Pump

Cable Grip Locking Pliers

Cable Cutter

Hand Held Swager

Radius Ferrule/Clip On Stop Gauge

Tool Box with Lock and Key

NOTE: Air Over Hydraulic Pump requires an air compressor capable of delivering at least 20 CFM and 120 P.S.I. at the air inlet on the box. Minimum 1/4" (6.3 mm) I.D. air hose with a 1/4" male pipe thread required (not included).

CAT. NO. CBLS1K
Minimum order is one each.

Ultra-tec is a registered trademark of Ultra-tec Corporation.

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CRL US ALUMINUM

CRL Stainless Steel Component Railing System for Use With Glass Infill Panels

- Design and Build Custom Post Railings From Stock Parts for Practically Any Application
- Non-Welded Mechanical Connections for Speedy Job Site Installation
- Clean Vertical Lines Without Glass Clamps
- Utilizes Our Popular Cap Rails and Companion Parts
- Polished or Brushed Stainless Steel Finishes Available From Stock
- Several Post Mounting Options Available

CRL US ALUMINUM®
MANUFACTURED IN THE USA

USE MONOLITHIC TEMPERED GLASS

If you are looking for a railing system that is a step above an aluminum system, but do not want the expense of a custom welded stainless steel system, try our patented CRS Component Railing System.

It combines the strength of 1-1/2" Schedule 40 Stainless Steel Posts and a complete selection of CRS Adapter Fittings with our popular Premium Cap Rails to create an easy to assemble and install railing system. Glass Infill Panels are secured without Glass Clamps, and their bottom edges are protected by an attractive Bottom Cap Rail.

By using our specially designed CRS Adapter Fittings you can build your own railings from stock for practically any railing requirements you may encounter. CRS Top Adapter Fittings are simply bonded to the vertical posts using our Cat. No. 7649 Primer and Cat. No. 32629 Metal Contact Cement (see page 303B). You can then bond any of our 2" (51 mm) or larger diameter Premium Stainless Steel Cap Rails to the Adapters. The Cap Rails are used in conjunction with matching diameter Corners, Connector Sleeves, and End Caps to create a wide variety of designs to meet most every need. A 1-1/2" (38 mm) diameter Stainless Steel Bottom Cap Rail easily attaches to the pre-drilled and tapped CRS Posts using a variety of CRS Bottom Rail Adapter Fittings (see pages 345B-346B) for level, sloped or stair applications.

CRL custom fabricates CRS Posts in five configurations: Flange Mount, Core Drill Mount, Stair Mount, Ramp Mount and Fascia Mount. These Posts are used with standard CRS Components and either 3/8" or 1/2" (10 or 12 mm) Tempered Glass Infill Panels to complete the installation. The CRS System utilizes a 'lift and drop' method of glass installation, allowing for less than perfect fabricated glass panels. No costly holes are required, and the top and bottom edges are captured, reducing polishing time and expense.

You can purchase stock CRS Components and Cap Rails to do your own fabrication, or you can let our expert fabricators do the work for you, leaving you with an easy to assemble railing package completely fabricated to your specifications. Polished stainless steel or brushed stainless steel finishes are available from stock.

See pages 455B-460B for our Aluminum Component Railing System

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CRL US ALUMINUM®

CRL CRS Stainless Steel Post Kits

- Post Kits Designed for Interior or Exterior Hand Rail and Guard Rail Applications
- Designed and Engineered to Meet or Exceed Building Code Requirements
- Low Maintenance 304 Grade Stainless Steel Posts Ready to Install
- Two Standard Stainless Steel Finishes
- Standard 36" and 42" (914 and 1066 mm) Tall Post Kits Available From Stock; Custom Height Post Kits are Also Available

CRL's CRS Surface Mounted Post Kits are manufactured from Schedule 40 1.9" (48 mm) diameter Stainless Steel Tubing, and are designed for guard rail or hand rail applications. Kits are supplied complete with a Welded Base Plate, Base Cover Flange, Top Rail Adapter, and Bottom Rail Adapter.

Standard CRS 36" and 42" (914 and 1066 mm) Post Kits are designed for use with 2" (51 mm) or larger diameter Premium Stainless Steel Cap Rails and 1-1/2" (38 mm) diameter Bottom Rails. Custom Size Post Kits and other top cap rail sizes are available on special order. Contact Railing Technical Sales for more information.

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End Post Kit

180 Degree Center Post Kit

90 Degree Corner Post Kit

135 Degree Angle Post Kit

POST HEIGHT DEDUCTION

Cap Rail Diameter	Height from Top of Cap Rail to Top of Post (A)
2" (51 mm)	4" (102 mm)
2-1/2" (64 mm)	4-1/2" (114 mm)
3" (76 mm)	5" (127 mm)
3-1/2" (89 mm)	5-9/16" (141 mm)
4" (102 mm)	6-1/16" (154 mm)

9/16" (14 mm) Diameter Mounting Holes

3-1/2" (89 mm)

4-3/4" (121 mm)

36" Post Kit diagram:
4" (102 mm)
Typical GR20 2" Diameter Cap Rail Used
CRS Top Rail Adapter
32" (812 mm)
1-1/2" SCH. 40 1.9" (48 mm) O.D. Round Post
36" Post Kit
CR15BA Bottom Rail Adapter [For use with 1-1/2" (38 mm) Top Rail as Bottom Rail]
36" (914 mm)
3" (76 mm)
Base Cover Flange

4-3/4" (120 mm) Diameter x 3/8" (10 mm) Thick Base Flange with Cover Concrete/Steel Mounting Standard

42" Post Kit diagram:
4" (102 mm)
Typical GR20 2" Diameter Cap Rail Used
CRS Top Rail Adapter
38" (965 mm)
1-1/2" SCH. 40 1.9" (48 mm) O.D. Round Post
42" Post Kit
42" (1066 mm)
CR15BA Bottom Rail Adapter [For use with 1-1/2" (38 mm) Top Rail as Bottom Rail]
3" (76 mm)
Base Cover Flange

END POST KITS

36" HEIGHT CAT. NO.	42" HEIGHT CAT. NO.	FINISH
CR36EKBS	CR42EKBS	Brushed Stainless
CR36EKPS	CR42EKPS	Polished Stainless

Minimum order: 1 each. All Post Kits can be combined for quantity pricing.

180 DEGREE CENTER POST KITS

36" HEIGHT CAT. NO.	42" HEIGHT CAT. NO.	FINISH
CR36CKBS	CR42CKBS	Brushed Stainless
CR36CKPS	CR42CKPS	Polished Stainless

Minimum order: 1 each. All Post Kits can be combined for quantity pricing.

90 DEGREE CORNER POST KITS

36" HEIGHT CAT. NO.	42" HEIGHT CAT. NO.	FINISH
CR36LKBS	CR42LKBS	Brushed Stainless
CR36LKPS	CR42LKPS	Polished Stainless

Minimum order: 1 each. All Post Kits can be combined for quantity pricing.

135 DEGREE ANGLE POST KITS

36" HEIGHT CAT. NO.	42" HEIGHT CAT. NO.	FINISH
CR36AKBS	CR42AKBS	Brushed Stainless
CR36AKPS	CR42AKPS	Polished Stainless

Minimum order: 1 each. All Post Kits can be combined for quantity pricing.

U.S. Patent No. 8,944,414 B2

TOP CAP RAILS
(see pages 338B-339B)

BOTTOM RAILS
(see page 340B)

VINYL INSERTS
Top Insert
Bottom Insert
(see page 342B)

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CRL US ALUMINUM

CRL Premium Cap Rails for 3/8" or 1/2" (10 or 12 mm) Glass
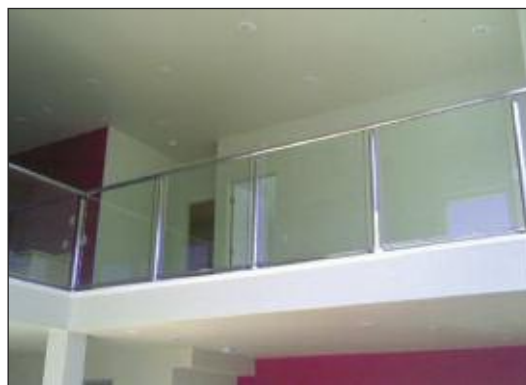
- Bump-Formed and Welded 120" (3.05 m) and 168" (4.27 m) Stock Lengths are Available in Five Diameters From 2" (51 mm) to 4" (102 mm)
- Cut to Size or Custom Fabricated Lengths Also Available
- Connect to a Variety of Fabricated Corners and End Caps
- Brushed and Polished Stainless 304 Grade is Standard; 316 Grade is Available in 2", 2-1/2", and 3" (51, 64, and 76 mm) Diameters
- Use With CRS Cap Rail Vinyl Only (See Page 342B)

CRL US ALUMINUM
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2"
(51 mm)

2-1/2"
(64 mm)

3"
(76 mm)

3-1/2"
(89 mm)

4"
(102 mm)

CRL's Premium Cap Rails are manufactured using a unique process known as Bump-Forming that ensures accuracy, consistency, and high quality. Unlike roll-formed Cap Rails, CRL's Bump-Formed Cap Rails do not contain the stress and spring back associated with the roll-formed product. Welds on both sides of the channel add strength and stability to the Cap Rail. This results in a Cap Rail with tighter tolerances, consistent radii, and the ability to fit into welded corners without twist or discoloration. Put simply, it means this is the best product in the marketplace.

All CRL Premium Cap Railings are formed using precision tooling to maintain uniform diameters, allowing for smooth hairline transitions at splices, corners, and end caps. The internal channel is welded in place to increase strength and stability for fabrication. Use of our Cat. No. 7649 Primer and Cat. No. 32629 Metal Contact Cement (see page 303B) is required to achieve a secure and permanent bond at all connections.

NOTE: When used with 3/8" (10 mm) glass, Cat. No. CR3PVT Cap Rail Vinyl (see page 342B) and 95CBL Silicone Sealant (see page 125B) should be used to secure the glass. When used with 1/2" (12 mm) glass, Cat. No. GR5PV Cap Rail Vinyl (see page 342B) and 95CBL Silicone should be used to secure the glass. Please contact CRL Railing Technical Sales for more information or for a quote.

U.S. Patent No. 8,944,414 B2

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CRL US ALUMINUM

MORE *CHOICES*
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CRL Premium Cap Rails for 3/8" or 1/2" (10 or 12 mm) Glass

- 304 or 316 Grade Stainless Steel
- Use With CRS Cap Rail Vinyl (See Page 342B)

USE MONOLITHIC TEMPERED GLASS

CRL US ALUMINUM MANUFACTURED IN THE USA

2" (51 MM) DIAMETER PREMIUM CAP RAIL IN 120" (3.05 M) AND 168" (4.27 M) LENGTHS

CAT. NO. 120" (3.05 M)	CAT. NO. 168" (4.27 M)	GRADE	FINISH	"W" WIDTH	"D" DEPTH*	THICKNESS	USE SLEEVE NO.
GR20BS	GR20BS14	304	Brushed Stainless	3/4" (19 mm)	3/8" (10 mm)	.050" (1.3 mm)	GR20CSS
GR20BS6	GR20BS146	316	Brushed Stainless	3/4" (19 mm)	3/8" (10 mm)	.050" (1.3 mm)	GR20CSS
GR20PS	GR20PS14	304	Polished Stainless	3/4" (19 mm)	3/8" (10 mm)	.050" (1.3 mm)	GR20CSS
GR20PS6	-----	316	Polished Stainless	3/4" (19 mm)	3/8" (10 mm)	.050" (1.3 mm)	GR20CSS

Minimum order: 1 each. Sizes and finishes can be combined for quantity pricing. *This dimension is used to calculate the glass size. Add the clearance you desire or allow an additional 1/8" (3 mm) if using Cap Rail Vinyl (see page 342B). Must ship via common carrier.

2-1/2" (64 MM) DIAMETER PREMIUM CAP RAIL IN 120" (3.05 M) AND 168" (4.27 M) LENGTHS

CAT. NO. 120" (3.05 M)	CAT. NO. 168" (4.27 M)	GRADE	FINISH	"W" WIDTH	"D" DEPTH*	THICKNESS	USE SLEEVE NO.
GR25BS	GR25BS14	304	Brushed Stainless	3/4" (19 mm)	7/8" (22 mm)	.0625" (1.6 mm)	GR25CSS
GR25BS6	GR25BS146	316	Brushed Stainless	3/4" (19 mm)	7/8" (22 mm)	.0625" (1.6 mm)	GR25CSS
GR25PS	GR25PS14	304	Polished Stainless	3/4" (19 mm)	7/8" (22 mm)	.0625" (1.6 mm)	GR25CSS
GR25PS6	GR25PS146	316	Polished Stainless	3/4" (19 mm)	7/8" (22 mm)	.0625" (1.6 mm)	GR25CSS

Minimum order: 1 each. Sizes and finishes can be combined for quantity pricing. *This dimension is used to calculate the glass size. Add the clearance you desire or allow an additional 1/8" (3 mm) if using Cap Rail Vinyl (see page 342B). Must ship via common carrier.
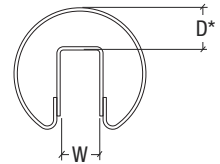
3" (76 MM) DIAMETER PREMIUM CAP RAIL IN 120" (3.05 M) AND 168" (4.27 M) LENGTHS

CAT. NO. 120" (3.05 M)	CAT. NO. 168" (4.27 M)	GRADE	FINISH	"W" WIDTH	"D" DEPTH*	THICKNESS	USE SLEEVE NO.
GR30BS	GR30BS14	304	Brushed Stainless	3/4" (19 mm)	1-3/8" (35 mm)	.0625" (1.6 mm)	GR30CSS
GR30BS6	-----	316	Brushed Stainless	3/4" (19 mm)	1-3/8" (35 mm)	.0625" (1.6 mm)	GR30CSS
GR30PS	GR30PS14	304	Polished Stainless	3/4" (19 mm)	1-3/8" (35 mm)	.0625" (1.6 mm)	GR30CSS

Minimum order: 1 each. Sizes and finishes can be combined for quantity pricing. *This dimension is used to calculate the glass size. Add the clearance you desire or allow an additional 1/8" (3 mm) if using Cap Rail Vinyl (see page 342B). Must ship via common carrier.

3-1/2" (89 MM) DIAMETER PREMIUM CAP RAIL IN 120" (3.05 M) AND 168" (4.27 M) LENGTHS

CAT. NO. 120" (3.05 M)	CAT. NO. 168" (4.27 M)	GRADE	FINISH	"W" WIDTH	"D" DEPTH*	THICKNESS	USE SLEEVE NO.
GR35BS	GR35BS14	304	Brushed Stainless	3/4" (19 mm)	1-7/8" (48 mm)	.0625" (1.6 mm)	GR35CSS
GR35PS	GR35PS14	304	Polished Stainless	3/4" (19 mm)	1-7/8" (48 mm)	.0625" (1.6 mm)	GR35CSS

Minimum order: 1 each. Sizes and finishes can be combined for quantity pricing. *This dimension is used to calculate the glass size. Add the clearance you desire or allow an additional 1/8" (3 mm) if using Cap Rail Vinyl (see page 342B). Must ship via common carrier.

4" (102 MM) DIAMETER PREMIUM CAP RAIL IN 120" (3.05 M) AND 168" (4.27 M) LENGTHS

CAT. NO. 120" (3.05 M)	CAT. NO. 168" (4.27 M)	GRADE	FINISH	"W" WIDTH	"D" DEPTH*	THICKNESS	USE SLEEVE NO.
GR40BS	GR40BS14	304	Brushed Stainless	3/4" (19 mm)	2-3/8" (60 mm)	.0625" (1.6 mm)	GR40CSS
GR40PS	GR40PS14	304	Polished Stainless	3/4" (19 mm)	2-3/8" (60 mm)	.0625" (1.6 mm)	GR40CSS

Minimum order: 1 each. Sizes and finishes can be combined for quantity pricing. *This dimension is used to calculate the glass size. Add the clearance you desire or allow an additional 1/8" (3 mm) if using Cap Rail Vinyl (see page 342B). Must ship via common carrier.

U.S. Patent No. 8,944,414 B2

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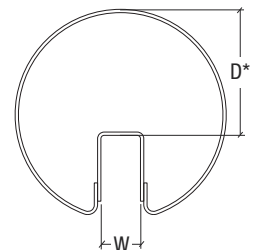
CRL 1-1/2" Schedule 40 CRS Post Rail Tubing

- Designed for Post Sections at Guard Rails, Stairways, and Handicap Ramp Areas
- 1.9" (48 mm) Outside Diameter
- Available in Brushed or Polished 316 Grade Stainless Steel
- Available in Stock Lengths or Custom Fabricated to Your Specifications

.145" (3.7 mm) Wall Thickness

1.9" (48 mm)
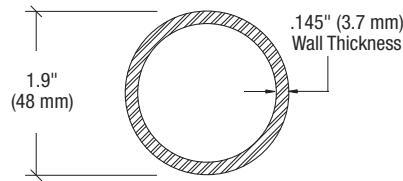
For stock 36" and 42" (914 and 1067 mm) Posts see page 337B.

CAT. NO.	GRADE	FINISH	WALL THICKNESS	LENGTH
PR15BS10	316	Brushed Stainless	.145" (3.7 mm)	120" (3.05 m)
PR15BS20	316	Brushed Stainless	.145" (3.7 mm)	240" (6.10 m)
PR15PS10	316	Polished Stainless	.145" (3.7 mm)	120" (3.05 m)
PR15PS20	316	Polished Stainless	.145" (3.7 mm)	240" (6.10 m)

Minimum order: 1 each. All sizes and finishes can be combined for quantity pricing. Must ship via common carrier. See page 329B for Base Flanges.

CRL's 1-1/2" Schedule 40 CRS Post Rail Tubing is designed for post sections at guard rail, hand rail, stairway, and handicap ramp areas. Formed using precision tooling to maintain uniform diameters and smooth hairline transitions at splice and Top Rail Adapter locations. Use of our Cat. No. 7649 Primer and Cat. No. 32629 Metal Contact Cement (see page 303B) is required to achieve a secure and permanent bond at all connections. **NOTE**: Brushed Stainless has a hairline linear finish.

CRL 1-1/2" CRS Bottom Rails

- Provides Bottom Support for 3/8" or 1/2" (10 or 12 mm) Tempered Glass in CRS Post Railing System
- 1.5" (38 mm) Outside Diameter
- Brushed or Polished Stainless Steel Finishes
- Available in Stock Lengths or Custom Fabricated to Your Specifications

5/8" (16 mm)

5/16" (8 mm)
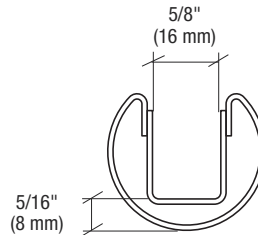
For Bottom Rail Adapters see pages 345B-346B.

CAT. NO.	GRADE	FINISH	WALL THICKNESS	LENGTH
GR15BS	304	Brushed Stainless	.050" (1.3 mm)	120" (3.05 m)
GR15BS6	316	Brushed Stainless	.050" (1.3 mm)	120" (3.05 m)
GR15PS	304	Polished Stainless	.050" (1.3 mm)	120" (3.05 m)
GR15PS6	316	Polished Stainless	.050" (1.3 mm)	120" (3.05 m)
GR15BS14	304	Brushed Stainless	.050" (1.3 mm)	168" (4.27 m)
GR15BS146	316	Brushed Stainless	.050" (1.3 mm)	168" (4.27 m)
GR15PS14	304	Polished Stainless	.050" (1.3 mm)	168" (4.27 m)

Minimum order: 1 each. All sizes and finishes can be combined for quantity pricing. Must ship via common carrier.

CRL's 1-1/2" CRS Bottom Rail is manufactured using a unique process known as Bump-Forming that ensures accuracy, consistency, and high quality. Welds on both sides of the channel add strength and stability to the rail. For connection to posts use Bottom Rail Adapters (see pages 345B to 346B). Secure to the glass by using CRL Cat. No. 95CBL Silicone Sealant, Setting Blocks, and Shims only. **NOTE**: Brushed Stainless has a hairline linear finish.

CRL CRS Low Profile Covers

- Available in Brushed or Polished 304 Grade Stainless Steel
- For Use on Surface, Stair, Ramp or Core Mount Applications

These Low Profile Covers can be used in place of the standard cover on Surface, Stair or Ramp Mount Posts when the mounting surface is below the finished floor. They can also be used at the base of Core Mount Posts to dress up the installation.

CAT. NO.	GRADE	DIAMETER	HEIGHT	FINISH
CR15LPCBS	304	4-3/8" (111 mm)	15/32" (12 mm)	Brushed Stainless
CR15LPCPS	304	4-3/8" (111 mm)	15/32" (12 mm)	Polished Stainless

Minimum order: 1 each.

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CRL CRS Cap Rail Return

- A.D.A. Compliant and Ready to Install
- 316 Grade Stainless Steel in Brushed or Polished Finish
- Custom Returns Available on Request

No commercial railing is complete without an A.D.A. Compliant Return on the hand rail. A Post Adapter is supplied with the Return for easy attachment to the CRS Post. Use our Cat. No. GR20CSS Connector Sleeve (see page 229B) and a GR20L Lower Incline Corner (see page 223B) to attach the top of the Return to the GR20 Series 2" (51 mm) diameter Cap Rail. Our Cat. No. 7649 Primer and Cat. No. 32629 Metal Contact Cement (see page 303B) should be used to securely bond the Connector Sleeve and Post Adapter. **NOTE**: Brushed Stainless has a hairline linear finish.

Post Adapter Included

MODEL CR1ADA

MODEL CR2ADA

14" (355 mm) C.T.C.

2" (51 mm)

2" (51 mm)

R 8" (203 mm)

R 6" (152 mm)

2" (51 mm)

1/4" (6 mm)

Adapter Only

8-13/16" (224 mm)

16-13/16" (427 mm)
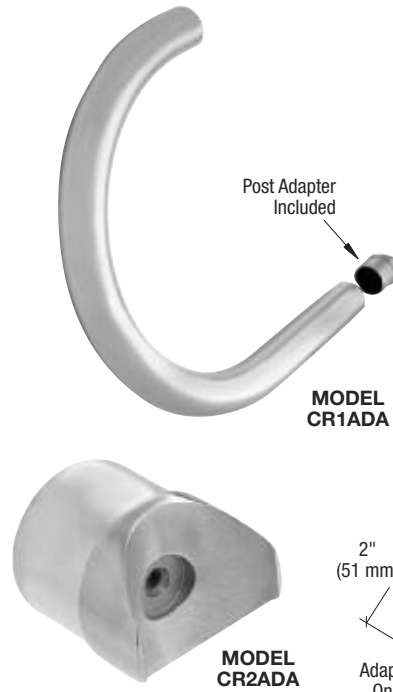
RETURN WITH POST ADAPTER CAT. NO.	POST ADAPTER ONLY CAT. NO.	FINISH
CR1ADABS	CR2ADABS	Brushed Stainless
CR1ADAPS	CR2ADAPS	Polished Stainless

Minimum order: 1 each. All Cap Rail Returns can be combined for quantity pricing.

CRL CRS Top Rail End Caps

- Five Diameters to Fit Our Premium Cap Rails
- 304 Grade Stainless Steel in Brushed or Polished Finish
- Ready to Install

CRS Top Rail End Caps are manufactured with a flat bottom to closely match the diameters of our 2" to 4" (51 to 102 mm) Premium Cap Rails. Use our Cat. No. 7649 Primer and Cat. No. 32629 Metal Contact Cement (see page 303B) to achieve a secure and permanent bond.

CAT. NO.	CAP RAIL DIAMETER	FINISH	FITS CAP RAIL NO.
CR20ECBS	2" (51 mm)	Brushed Stainless	GR20BS/GR20BS14
CR20ECPS	2" (51 mm)	Polished Stainless	GR20PS/GR20PS14
CR25ECBS	2-1/2" (64 mm)	Brushed Stainless	GR25BS/GR25BS14
CR25ECPS	2-1/2" (64 mm)	Polished Stainless	GR25PS/GR25PS14
CR30ECBS	3" (76 mm)	Brushed Stainless	GR30BS/GR30BS14
CR30ECPS	3" (76 mm)	Polished Stainless	GR30PS/GR30PS14
CR35ECBS	3-1/2" (89 mm)	Brushed Stainless	GR35BS/GR35BS14
CR35ECPS	3-1/2" (89 mm)	Polished Stainless	GR35PS/GR35PS14
CR40ECBS	4" (102 mm)	Brushed Stainless	GR40BS/GR40BS14
CR40ECPS	4" (102 mm)	Polished Stainless	GR40PS/GR40PS14

Minimum order: 1 each. All Post and Rail Caps can be combined for quantity pricing.

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CRL CRS Cap Rail Vinyl

- Rigid Black Vinyl Provides Protective Barrier Between Metal Cap Rail and Glass
- Sizes for 3/8" (10 mm) and 1/2" (12 mm) Tempered Glass
- Intended Only for Use in CRS Systems

CRS Cap Rail Vinyl provides a protective barrier between the metal Cap Rail and the glass. When used in the Bottom Rail, it also acts as the bottom setting block to ensure proper glass engagement into the Top and Bottom Cap Rails. Use Cat. No. 95CBL Silicone (see page 125B) to secure the Vinyl inside the pocket of the Cap Rail and also to the glass.

USE MONOLITHIC TEMPERED GLASS
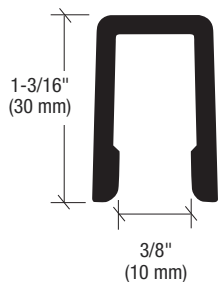
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Top Cap Rail Vinyl
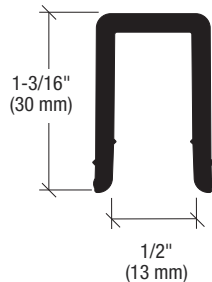
CAT. NO. GR5PV
Top Cap Rail Vinyl
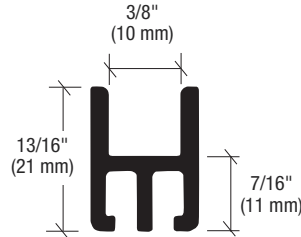
CAT. NO. CR3PVB
Bottom Cap Rail Vinyl
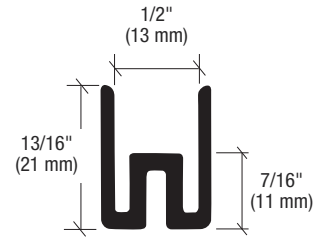
CAT. NO. CR5PVB
Bottom Cap Rail Vinyl

CAT. NO.	DESCRIPTION	FITS	FOR USE WITH	LENGTH
CR3PVT*	Cap Rail Vinyl Used in CRS Top Rail Only	GR20, GR25, GR30, GR35, and GR40 Cap Rail	3/8" (10 mm) Glass	120" (3.05 m)
GR5PV*	Cap Rail Vinyl Used in CRS Top Rail Only	GR20, GR25, GR30, GR35, and GR40 Cap Rail	1/2" (12 mm) Glass	120" (3.05 m)
CR3PVB*	Cap Rail Vinyl Used in CRS Bottom Rail Only	GR15 Series Bottom Rail	3/8" (10 mm) Glass	120" (3.05 m)
CR5PVB*	Cap Rail Vinyl Used in CRS Bottom Rail Only	GR15 Series Bottom Rail	1/2" (12 mm) Glass	120" (3.05 m)

Minimum order: 1 stock length. All Cap Rail Vinyl can be combined for quantity pricing. A Packing Charge will be added to orders of fewer than five combined lengths. * Stock lengths longer than 108" (2.74 m) must ship common carrier, unless you specify we cut them for UPS. A Cutting Charge will apply.

CRL CRS Pocket Filler Channel

- Adds Finished Look to Cap Rails
- Available in Brushed or Polished Stainless Finish
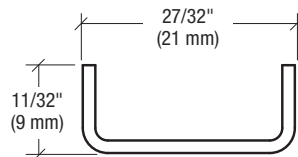
CRS Pocket Filler Channel adds an attractive, finished look to the CRS System. Each CRS Top Adapter comes with the required channel for standard 2" (51 mm) gaps between the glass and the post. We stock 2" (51 mm) replacement Filler Channels and 60" (1524 mm) stock lengths that you can cut for custom glass spacing. Use of our Cat. No. 7649 Primer and Cat. No. 32629 Metal Contact Cement (see page 303B) is required to achieve a secure and permanent bond.

MANUFACTURED IN THE USA
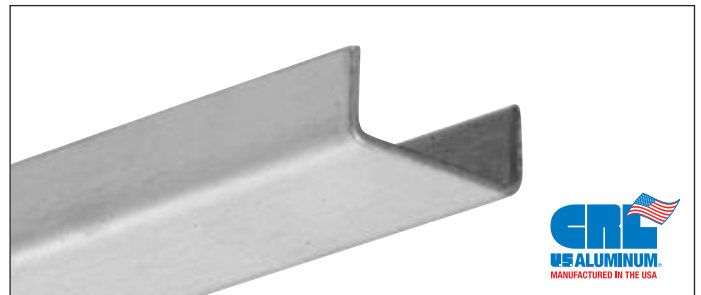
CAT. NO.	GRADE	FINISH	LENGTH
CRFBS2	304	Brushed Stainless	2" (51 mm)
CRFPS2	304	Polished Stainless	2" (51 mm)
CRFBS60	304	Brushed Stainless	60" (1524 mm)
CRFPS60	304	Polished Stainless	60" (1524 mm)

Minimum order 2" length: 2 each. Minimum order 60" length: 1 each.
All Pocket Filler Channels can be combined for quantity pricing.

U.S. Patent No. 8,944,414 B2

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342B

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CRL **US ALUMINUM**

CRL CRS Top Rail Adapter for End Posts

- Provides Easy Attachment of Cap Rails to Vertical Posts
- Can Be Customized to Meet Specific Needs
- Made From 316 Grade Stainless Steel in Brushed or Polished Finish
- Ready to Install

CRL Top Rail Adapters easily slip into 1-1/2" Schedule 40 Stainless Steel Posts to provide for attachment of 2" to 4" (51 to 102 mm) diameter Cap Railing. They can be modified to meet specific needs. Use of our Cat. No. 7649 Primer and Cat. No. 32629 Metal Contact Cement (see page 303B) is required to achieve a secure and permanent bond.

Supplied with one 2" (51 mm) Pocket Filler (see page 342B)
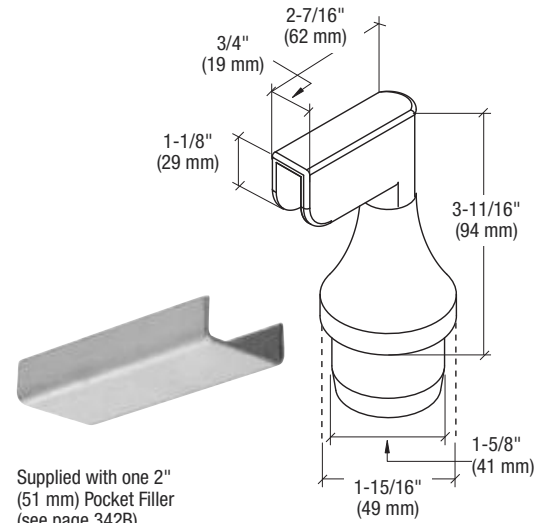
CAT. NO.	GRADE	FINISH
CR15TAEBS	316	Brushed Stainless
CR15TAEPS	316	Polished Stainless

Minimum order: 1 each. All Top Rail Adapters can be combined for quantity pricing.

POST HEIGHT DEDUCTION

Cap Rail Diameter	Height from Top of Cap Rail to Top of Post (A)
2" (51 mm)	4" (102 mm)
2-1/2" (64 mm)	4-1/2" (114 mm)
3" (76 mm)	5" (127 mm)
3-1/2" (89 mm)	5-9/16" (141 mm)
4" (102 mm)	6-1/16" (154 mm)

CRL CRS Top Rail Adapter for 180 Degree Center Posts

- Provides Easy Attachment of Cap Rails to Vertical Posts
- Can Be Customized to Meet Specific Needs
- Made From 316 Grade Stainless Steel in Brushed or Polished Finish
- Ready to Install

CRL Top Rail Adapters easily slip into 1-1/2" Schedule 40 Stainless Steel Posts to provide for attachment of 2" to 4" (51 to 102 mm) diameter Cap Railing. They can be modified to meet specific needs. Use our Cat. No. 7649 Primer and Cat. No. 32629 Metal Contact Cement (see page 303B) to achieve a secure and permanent bond.

Supplied with two 2" (51 mm) Pocket Fillers (see page 342B)
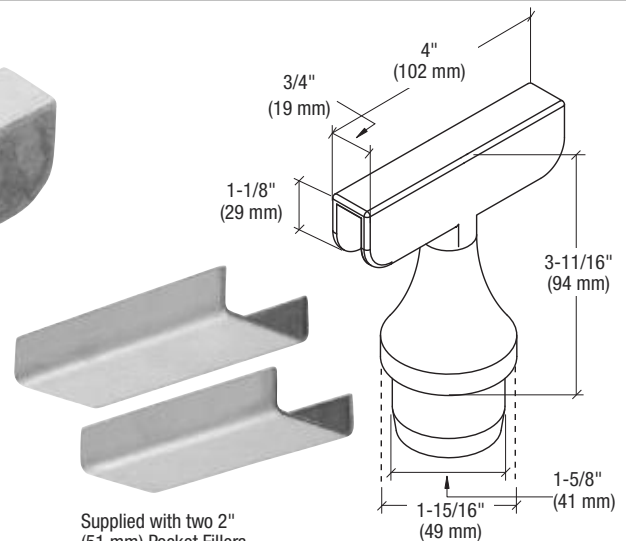
CAT. NO.	GRADE	FINISH
CR15TA180BS	316	Brushed Stainless
CR15TA180PS	316	Polished Stainless

Minimum order: 1 each. All Top Rail Adapters can be combined for quantity pricing.

POST HEIGHT DEDUCTION

Cap Rail Diameter	Height from Top of Cap Rail to Top of Post (A)
2" (51 mm)	4" (102 mm)
2-1/2" (64 mm)	4-1/2" (114 mm)
3" (76 mm)	5" (127 mm)
3-1/2" (89 mm)	5-9/16" (141 mm)
4" (102 mm)	6-1/16" (154 mm)

U.S. Patent No. 8,944,414 B2

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CRL US ALUMINUM

CRL CRS Top Rail Adapter for 90 Degree Corner Posts

- Provides Easy Attachment of Cap Rails to Vertical Posts
- Can Be Customized to Meet Specific Needs
- Made From 316 Grade Stainless Steel in Brushed or Polished Finish
- Ready to Install

CRS Top Rail Adapters easily slip into 1-1/2" Schedule 40 Stainless Steel Posts to provide for attachment of 2" to 4" (51 to 102 mm) diameter Cap Railing. They can be modified to meet specific needs. Use our Cat. No. 7649 Primer and Cat. No. 32629 Metal Contact Cement (see page 303B) to achieve a secure and permanent bond.

Supplied with two 2" (51 mm) Pocket Fillers (see page 342B)

Dimensions: 1-5/8" (41 mm), 3/4" (19 mm), 1-1/8" (29 mm), 3-11/16" (94 mm), 1-5/8" (41 mm), 1-15/16" (49 mm)
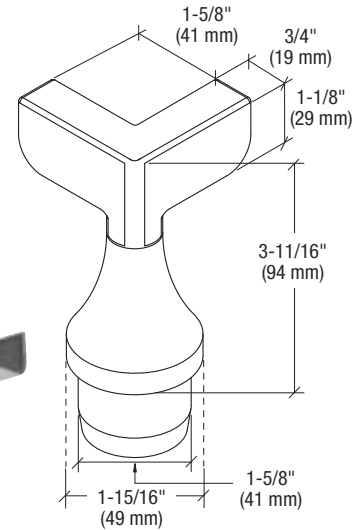
CAT. NO.	GRADE	FINISH
CR15TA90BS	316	Brushed Stainless
CR15TA90PS	316	Polished Stainless

Minimum order: 1 each. All Top Rail Adapters can be combined for quantity pricing.

POST HEIGHT DEDUCTION

Cap Rail Diameter	Height from Top of Cap Rail to Top of Post (A)
2" (51 mm)	4" (102 mm)
2-1/2" (64 mm)	4-1/2" (114 mm)
3" (76 mm)	5" (127 mm)
3-1/2" (89 mm)	5-9/16" (141 mm)
4" (102 mm)	6-1/16" (154 mm)

CRL CRS Top Rail Adapter for 135 Degree Corner Posts

- Provides Easy Attachment of Cap Rails to Vertical Posts
- Can Be Customized to Meet Specific Needs
- Made From 316 Grade Stainless Steel in Brushed or Polished Finish
- Ready to Install

CRS Top Rail Adapters easily slip into 1-1/2" Schedule 40 Stainless Steel Posts to provide for attachment of 2" to 4" (51 to 102 mm) diameter Cap Railing. They can be modified to meet specific needs. Use our Cat. No. 7649 Primer and Cat. No. 32629 Metal Contact Cement (see page 303B) to achieve a secure and permanent bond.

Supplied with two 2" (51 mm) Pocket Fillers (see page 342B)

Dimensions: 3/4" (19 mm), 1-7/8" (48 mm), 1-1/8" (29 mm), 3-11/16" (94 mm), 1-5/8" (41 mm), 1-15/16" (49 mm)
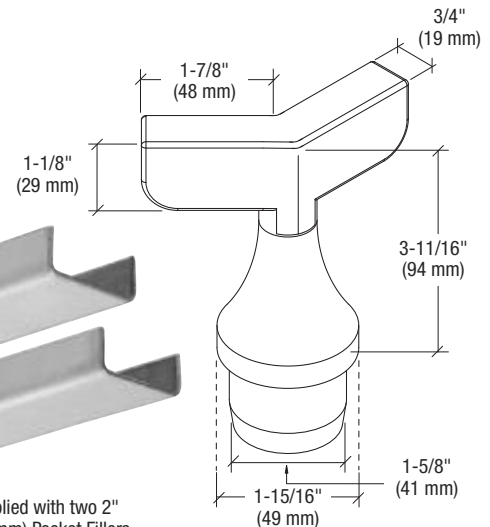
CAT. NO.	GRADE	FINISH
CR15TA135BS	316	Brushed Stainless
CR15TA135PS	316	Polished Stainless

Minimum order: 1 each. All Top Rail Adapters can be combined for quantity pricing.

U.S. Patent No. 8,944,414 B2

POST HEIGHT DEDUCTION

Cap Rail Diameter	Height from Top of Cap Rail to Top of Post (A)
2" (51 mm)	4" (102 mm)
2-1/2" (64 mm)	4-1/2" (114 mm)
3" (76 mm)	5" (127 mm)
3-1/2" (89 mm)	5-9/16" (141 mm)
4" (102 mm)	6-1/16" (154 mm)

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CRL US ALUMINUM

CRL CRS Top Rail Adapter With Adjustable Top

- Adjustable Angle for Use on Any Stair or Ramp
- Provides Easy Attachment of Cap Rails to Vertical Posts
- Available in Brushed or Polished 316 Grade Stainless Steel
- Ready to Install

CRS Top Rail Adapters easily slip into 1-1/2" Schedule 40 Stainless Steel Posts to provide for attachment of 2" to 4" (51 to 102 mm) diameter Cap Railing. This Adapter can be adjusted to match the slope of your stairs or ramp. Use our Cat. No. 7649 Primer and Cat. No. 32629 Metal Contact Cement (see page 303B) to achieve a secure and permanent bond.

3/4" (19 mm)

4" (102 mm)

3" (76 mm)

1-5/8" (41 mm)

1-15/16" (49 mm)

Supplied with two 2" (51 mm) Pocket Fillers (see page 342B)
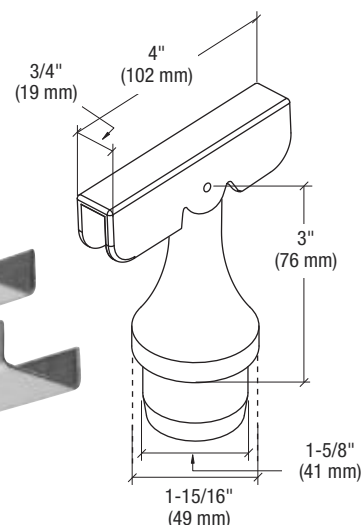
CAT. NO.	GRADE	FINISH
CR15TAABS	316	Brushed Stainless
CR15TAAPS	316	Polished Stainless

Minimum order: 1 each. All Top Rail Adapters can be combined for quantity pricing.

POST HEIGHT DEDUCTION

A

NOTE: For assistance in calculating post heights when using Adjustable Top Rail Adapters, please contact our Railing Specialists in the CRL Technical Sales Department at Ext. 7730.

CRL CRS Rail Adapter for Level Bottom Rails

- Provides Easy Attachment of Level Bottom Rail to Vertical Posts
- Made From 316 Grade Stainless Steel in Brushed or Polished Finish
- Ready to Install

CRS Rail Adapters for Bottom Rails easily attach to 1-1/2" Schedule 40 Stainless Steel Posts to provide for attachment of 1-1/2" Diameter Cap Railing when used as the Bottom Rail of the CRS System. Unlike the Top Rail, only the 1-1/2" size can be used as the Bottom Rail. Comes with Rail Connecting Block and 5/16-18 Socket Head Cap Screw. Use our Cat. No. 7649 Primer and Cat. No. 32629 Metal Contact Cement (see page 303B) to achieve a secure and permanent bond.

1-13/16" (46 mm)

1-5/16" (33 mm)
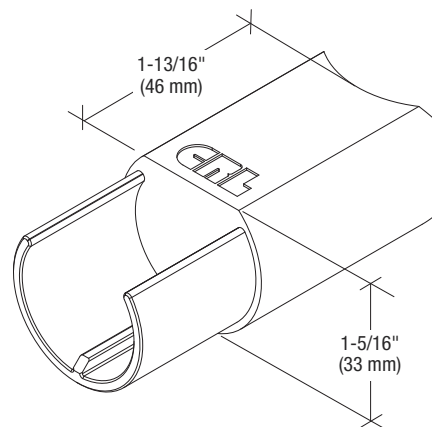
CAT. NO.	GRADE	FINISH
CR15BABS	316	Brushed Stainless
CR15BAPS	316	Polished Stainless

Minimum order: 1 each. All Bottom Rail Adapters can be combined for quantity pricing.

Field measure to next Rail Adapter for accurate cut length on Bottom Rail

U.S. Patent No. 8,944,414 B2

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CRL US ALUMINUM

CRL CRS Adjustable Upper Adapter for Sloped Bottom Rails

- Provides Easy Attachment of Sloped Bottom Rails to Vertical Posts
- 6 Degree Adjustable Angle for Use on Any Stair or Ramp
- Made From 316 Grade Stainless Steel in Brushed or Polished Finish
- Ready to Install

CRS Adjustable Upper Adapters for Sloped Bottom Rails easily attach to 1-1/2" Schedule 40 Stainless Steel Posts to provide for attachment of 1-1/2" Diameter Cap Railing when used as the Bottom Rail of the CRS System. Unlike the Top Rail, only the 1-1/2" size can be used as the Bottom Rail. Comes with Rail Connecting Block and 5/16-18 Socket Head Cap Screw. Use our Cat. No. 7649 Primer and Cat. No. 32629 Metal Contact Cement (see page 303B) to achieve a secure and permanent bond.

CAT. NO.	USE ON	GRADE	FINISH
CR15BAURBS	Ramps	316	Brushed Stainless
CR15BAURPS	Ramps	316	Polished Stainless
CR15BAUSBS	Stairs	316	Brushed Stainless
CR15BAUSPS	Stairs	316	Polished Stainless

Minimum order: 1 each. All Bottom Rail Adapters can be combined for quantity pricing.

2-5/16" (59 mm)

1-5/16" (33 mm)

Field measure to next Rail Adapter for accurate cut length on Bottom Rail

CRL CRS Adjustable Lower Adapter for Sloped Bottom Rails

- Provides Easy Attachment of Sloped Bottom Rails to Vertical Posts
- 6 Degree Adjustable Angle for Use on Any Stair or Ramp
- Made From 316 Grade Stainless Steel in Brushed or Polished Finish
- Ready to Install

CRS Adjustable Lower Adapters for Sloped Bottom Rails easily attach to 1-1/2" Schedule 40 Stainless Steel Posts to provide for attachment of 1-1/2" Diameter Cap Railing when used as the Bottom Rail of the CRS System. Unlike the Top Rail, only the 1-1/2" size can be used as the Bottom Rail. Comes with Rail Connecting Block and 5/16-18 Socket Head Cap Screw. Use our Cat. No. 7649 Primer and Cat. No. 32629 Metal Contact Cement (see page 303B) to achieve a secure and permanent bond.

CAT. NO.	USE ON	GRADE	FINISH
CR15BALRBS	Ramps	316	Brushed Stainless
CR15BALRPS	Ramps	316	Polished Stainless
CR15BALSBS	Stairs	316	Brushed Stainless
CR15BALSPS	Stairs	316	Polished Stainless

Minimum order: 1 each. All Bottom Rail Adapters can be combined for quantity pricing.

U.S. Patent No. 8,944,414 B2

2-5/16" (59 mm)

1-5/16" (33 mm)
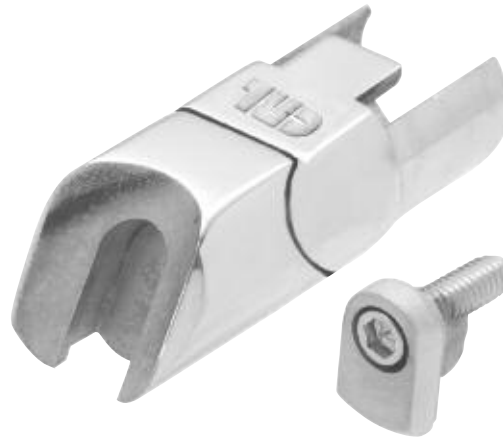
Field measure to next Rail Adapter for accurate cut length on Bottom Rail
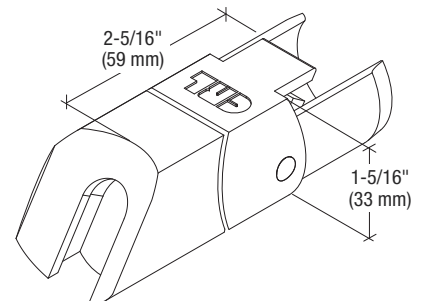
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CRL US ALUMINUM

CRL CRS Standard Fascia Mount Bracket

- For Use With 1-1/2" Schedule 40,
  1.9" (48 mm) O.D. Stainless Steel Pipe
- Made From 316 Grade Stainless Steel

CRL CRS Standard Fascia Mount Brackets are designed for use with center or end posts. Four fasteners, not included, are required for mounting. A structural engineer should be consulted for proper fastener selection.
NOTE: Not for use with thin wall tubing.

2-1/4" (57 mm)
3-1/2" (89 mm)
3-1/2" (89 mm)
6-1/2" (165 mm)
7/16" (11 mm) Dia. Mounting Hole
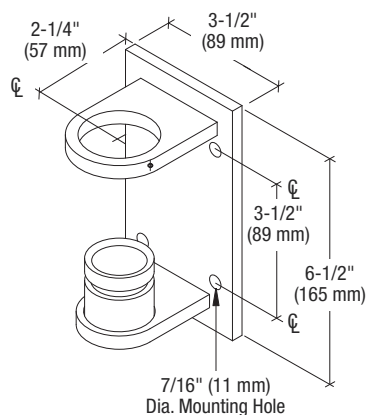
CAT. NO.	GRADE	FINISH
CR15FBBS	316	Brushed Stainless
CR15FBPS	316	Polished Stainless

Minimum order: 1 each. All Fascia Mount Brackets can be combined for quantity pricing.

CRL CRS Inside Corner Fascia Mount Bracket

- Custom Corners Available Upon Request

- For Use With 1-1/2" Schedule 40,
  1.9" (48 mm) O.D. Stainless Steel Pipe
- Made From 316 Grade Stainless Steel
  in Brushed or Polished Finish

CRL CRS Inside Corner Fascia Mount Brackets are designed for use at inside corners of your railing, eliminating the need to double-up on the posts at the corner. Four fasteners, not included, are required for mounting. A structural engineer should be consulted for proper fastener selection.
NOTE: Not for use with thin wall tubing.

4" (102 mm)
2-1/4" (57 mm)
4" (102 mm)
2-1/4" (57 mm)
3-1/2" (89 mm)
6-1/2" (165 mm)
7/16" (11 mm) Dia. Mounting Hole
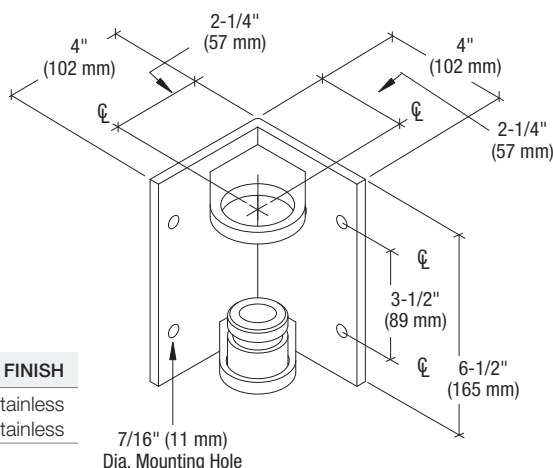
CAT. NO.	GRADE	FINISH
CR151FBBS	316	Brushed Stainless
CR151FBPS	316	Polished Stainless

Minimum order: 1 each. All Fascia Mount Brackets can be combined for quantity pricing.

CRL CRS Outside Corner Fascia Mount Bracket

- Custom Corners Available Upon Request

- For Use With 1-1/2" Schedule 40,
  1.9" (48 mm) O.D. Stainless Steel Pipe
- Made From 316 Grade Stainless Steel
  in Brushed or Polished Finish

CRL CRS Outside Corner Fascia Mount Brackets are designed for use at outside corners of your railing, eliminating the need to double-up on the posts at the corner. Four fasteners, not included, are required for mounting. A structural engineer should be consulted for proper fastener selection.
NOTE: Not for use with thin wall tubing.

2-1/4" (57 mm)
2-1/4" (57 mm)
3-11/16" (94 mm)
3-11/16" (94 mm)
3-1/2" (89 mm)
6-1/2" (165 mm)
7/16" (11 mm) Dia. Mounting Hole
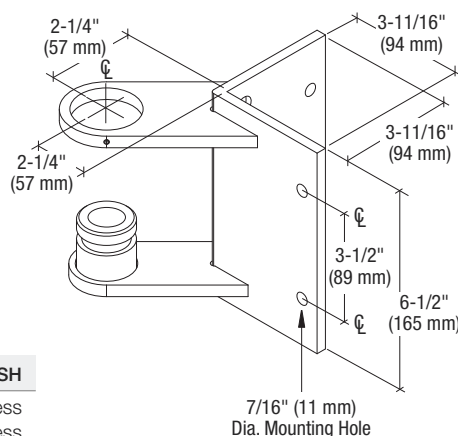
CAT. NO.	GRADE	FINISH
CR150FBBS	316	Brushed Stainless
CR150FBPS	316	Polished Stainless

Minimum order: 1 each. All Fascia Mount Brackets can be combined for quantity pricing.

U.S. Patent No. 8,944,414 B2

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System: P2 Series Fascia Mount Post Railing With Glass Infill

System: P7 Series Post Railing With Cable Infill

System: P8 Series Post Railing With Glass Infill

System: Custom P5 Series Post Railing With Glass Infill

Online Photo Gallery

When you visit **crlaurence.com/gallery** you can view our photo galleries of finished projects. It's a great way to show your customers what can be accomplished when they specify CRL Architectural Hardware Products.
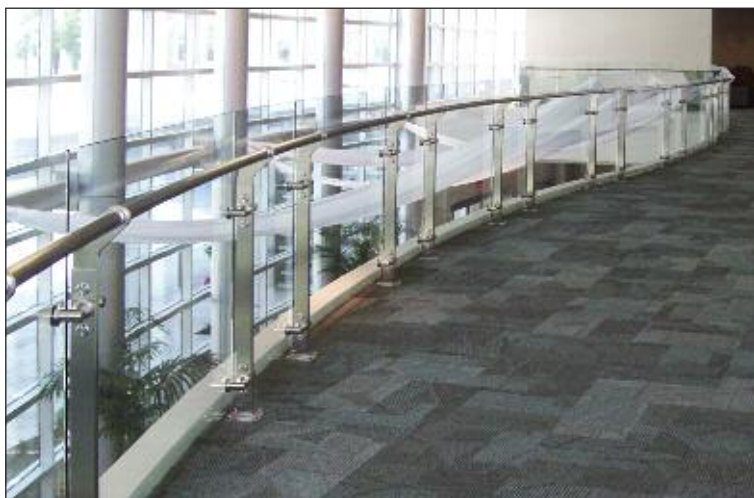
System: P2 Series Post Railing With Glass Infill

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Hand Rails

Adjustable Wall Protector Rails

Blumcraft® Hand Rail Brackets

Blumcraft® Hand Railings

Blumcraft® Wood Hand Railings

Fabricated Corners

Hand Rail Brackets **MODEL** *NEW!*

Hand Rail Bracket Spanner Wrench *NEW!*

Hand Rail Tubing

Installation Fasteners and Supplies

LED Hand Rail Lighting

Pipe Rail Tubing

Premium Cap Rail for LED Applications

Service Rails

Thin Wall Hand Rail Tubing

Wood Hand Rails

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These products and more can be found in this catalog section. On the top and bottom of each page are direct search instructions for viewing them on our web site. You can also enter the catalog number into the Search Box for a direct link to the product and **More Choices** in that category. To view **More Choices**, simply click on the red and white icon to be taken to a larger selection.

MORE *CHOICES* crlaurence.com

CRL Hand Railing Systems

PAGES 349B-356B

- Metal Hand Rail Tubing and Components
- End Caps, Corners and Connector Sleeves
- Wood Hand Rails and Domed End Caps
- Custom Fabrication and Finishing

Fill the need of most any project you encounter with CRL's line of Hand Rail Tubing and complement of component items. The Thin Wall Tubing comes in a choice of stainless steel or brass metal, while our Heavy Wall Pipe Rail Tubing comes in a choice of stainless steel, brass, or aluminum construction. A collection of Corners, Tees, Crosses, Flanges, and Brackets will assist in completing your project in a professional and timely manner. Custom fabrication and finishing is available for those "special" jobs.

CRL Blumcraft® Hand Railing Systems

PAGES 357B-372B

- Blumcraft® Extruded Aluminum Hand Railings
- Blumcraft® Wood Hand Railings
- Hand Rail Brackets, Fasteners and Adapter Plates

Blumcraft® Hand Railings come in a choice of extruded aluminum (satin anodized, dark bronze anodized, and mill), or in wood (choice of eight hardwood finishes). Our variety of End Caps, Splice Pins, and Snap-In Pocket Fillers are available for precise and sturdy installations. An assortment of Hand Rail Brackets in many styles is offered for glass mounting, wall mounting, or post mounting. Our handy Hand Rail Bracket Spanner Wrench, Anchors, Bolts, Screws, and Rods round out a selection of accessories.

CRL LED Hand Rail Lighting

PAGES 373B-378B

- Ideal for Edge Lighting of Glass Panels
- Illuminates Stairs and Walkways
- Premium Cap Rail and Post Mounted Hand Rail for LED Applications
- A Full Complement of Accessory Items

LED (Light-Emitting Diode) Lighting saves energy, is very durable, withstands cold environments, contains no mercury, and in short has become the latest evolution in lighting. The illumination on the glass brought out by the LED Lighting also accents the attractive glass railing. CRL offers the perfect size Premium Cap Rail that is designed especially for use with our LED System. A line of accessory parts is stocked to make installation quick and safe.

CRL HRS Thin Wall Hand Railing Systems

PAGES 379B-396B

- 1-1/2" and 2" (38 and 51 mm) Hand Rail Tubing
- Corners, Tees, Elbows, and End Caps
- Saddles, Collars, and Flanges
- Adjustable Wall Protectors

CRL 1-1/2" and 2" (38 and 51 mm) Outside Diameter Thin Wall Tubing is formed using precision tooling to maintain a uniform diameter, thus allowing smooth hairline transitions at splices and end caps. Angled Corners, Tees, End Caps, Elbow Scrolls, and Crosses are just some of the stock accessory items commonly used with the Thin Wall Tubing to complete your project. Our Adjustable Wall Protectors are offered for areas of high pedestrian traffic, or carts and gurneys that can cause wear and tear to walls.

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CRL HRS Hand Rail Tubing and Components

- Designed for Commercial and Residential Applications
- Utilizes 1-1/2" (38 mm) and 2" (51 mm) Tubing as Well as 1-1/2" Schedule 40 Aluminum Pipe [1.9" (48 mm) Outside Diameter]
- Can Be Designed to Meet the Strictest of Building Codes and are A.D.A. Compliant
- Complete Selection of Flush and Ball Type Fittings
- Easy to Install and Attractively Priced
- Select From a Variety of Architectural Finishes

CRL has developed a line of Hand Rail Tubing and Components to complete our HRS Hand Railing System. Our collection of Corners, Tees, Elbows, Crosses, Flanges, and Brackets will fill the need of most projects. We will also custom fabricate to fit your unique job conditions. CRL Thin Wall Hand Rail Tubing is precision made stainless steel or brass with .049" (1.2 mm) wall thickness. Our Heavy Wall Hand Rail Tubing is made of stainless steel or aluminum with a hefty .125" to .145" (3.2 to 3.7 mm) wall for added strength. For complete information on HRS Hand Rails, go to **crlaurence.com/hrs**.

CRL Custom Fabrication and Finishing

- Cutting, Mitering, Drilling, Bending, Welding, Finishing, and Other Services to Create Just the Right Product for the Job

CRL offers state-of-the-art custom fabrication that can handle the most complex projects you may encounter. By offering cutting, mitering, drilling, bending, welding, finishing, and other services, CRL can save the installer time and labor.

CRL offers many finish options, including anodizing, painting, and powder coating. We operate our own polishing department that can provide straight and circumferential sanding, as well as polishing.

For additional information, contact CRL Technical Sales at (800) 421-6144 in U.S., (877) 421-6144 from Canada, or (323) 588-1281 International, and ask for Ext. 7730. You can also e-mail us at **railings@crlaurence.com**.

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CRL US ALUMINUM

CRL 1-1/2" O.D. Thin Wall Hand Rail Tubing and End Caps

- 1-1/2" (38 mm) Outside Diameter
- Three Architectural Finishes
- Ready to Install
- Requires End Caps and Connector Sleeves (Sold Separately)
- For a Full Selection of Related Parts (See Pages 351B, 380B-393B)

1.5" (38 mm) .049" (1.2 mm) Wall Thickness

.145" (4 mm)

HR15F
Flat End Cap

Linear Hairline Finish

1-1/2" (38 MM) DIAMETER O.D. THIN WALL HAND RAIL TUBING

CAT. NO.	GRADE	FINISH	LENGTH	USE SLEEVE NO.
HR15BS	304	Brushed Stainless	236" (6 m)#	GR15CSS
HR15PS	304	Polished Stainless	236" (6 m)#	GR15CSS
HR15BS98	304	Brushed Stainless	98" (2.49 m)	GR15CSS
HR15PS98	304	Polished Stainless	98" (2.49 m)	GR15CSS
HR15PB	C260	Polished Brass	216" (5.48 m)#	GR15CSB

Minimum order: 1 each. All Hand Rail Tubing can be combined for quantity pricing. #Must ship via common carrier.

FLAT END CAPS FOR HR15 SERIES HAND RAIL TUBING 1-1/2" (38 MM) O.D.

CAT. NO.	GRADE	FINISH
HR15FBS	304	Brushed Stainless
HR15FPS	304	Polished Stainless
HR15FPB	C260	Polished Brass

Minimum order: 1 each. All Railing End Caps can be combined for quantity pricing.

All CRL Hand Railing Tubing is formed using precision tooling to maintain uniform diameters, allowing for smooth hairline transitions at splices and end caps. Use our Cat. No. 7649 Primer and Cat. No. 32629 Metal Contact Cement (see page 394B) to achieve a secure and permanent bond at all connections. For Connector Sleeves see page 355B.

Standard stainless is 304 grade. Stainless 316 grade is available on special order. Standard brass alloy is C260. Contact CRL Technical Sales for more information or a quote. **NOTE:** Thin Wall Tubing is not designed for guard rail posts or top rails.

CRL 2" O.D. Thin Wall Hand Rail Tubing and End Caps

- 2" (51 mm) Outside Diameter
- Three Architectural Finishes
- Ready to Install
- Requires End Caps and Connector Sleeves (Sold Separately)
- For a Full Selection of Related Parts (See Pages 351B, 380B-393B)

2" (51 mm) .049" (1.2 mm) Wall Thickness

.125" (3 mm)

HR20F
Flat End Cap

Linear Hairline Finish

2" (51 MM) DIAMETER O.D. THIN WALL HAND RAIL TUBING

CAT. NO.	GRADE	FINISH	LENGTH	USE SLEEVE NO.
HR20BS	304	Brushed Stainless	236" (6 m)#	GR20CSS
HR20PS	304	Polished Stainless	236" (6 m)#	GR20CSS
HR20BS98	304	Brushed Stainless	98" (2.49 m)	GR20CSS
HR20PS98	304	Polished Stainless	98" (2.49 m)	GR20CSS
HR20PB	C260	Polished Brass	216" (5.48 m)#	GR20CSB

Minimum order: 1 each. All Hand Rail Tubing can be combined for quantity pricing. #Must ship via common carrier.

FLAT END CAPS FOR HR20 SERIES HAND RAIL TUBING 2" (51 MM) O.D.

CAT. NO.	GRADE	FINISH
HR20FBS	304	Brushed Stainless
HR20FPS	304	Polished Stainless
HR20FPB	C260	Polished Brass

Minimum order: 1 each. All Railing End Caps can be combined for quantity pricing.

All CRL Hand Railing Tubing is formed using precision tooling to maintain uniform diameters, allowing for smooth hairline transitions at splices and end caps. Use our Cat. No. 7649 Primer and Cat. No. 32629 Metal Contact Cement (see page 394B) to achieve a secure and permanent bond at all connections. For Connector Sleeves see page 355B.

Standard stainless is 304 grade. Stainless 316 grade is available on special order. Standard brass alloy is C260. Contact CRL Technical Sales for more information or a quote. **NOTE:** Thin Wall Tubing is not designed for guard rail posts or top rails.

TOLL Phone: (800) 421-6144
FREE Fax: (800) 262-3299
From Anywhere in the U.S. or Canada

CRL US ALUMINUM

CRL 1-1/2" Square O.D. Thin Wall Hand Rail Tubing

- 1-1/2" (38 mm) Square
- Two Architectural Finishes
- Ready to Install
- Available in Stock Lengths or Custom Fabricated to Your Specifications

.119" (3 mm)

1.5" (38 mm)

.049" (1.2 mm) Wall Thickness
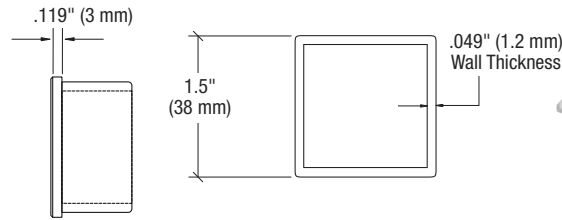
Linear Hairline Finish

SA10 Flat End Cap

1-1/2" (38 MM) SQUARE O.D. HAND RAIL TUBING

CAT. NO.	GRADE	FINISH	LENGTH	USE SLEEVE NO.
HRS15BS	304	Brushed Stainless	236" (6 m)#	GRS15CSS
HRS15PS	304	Polished Stainless	236" (6 m)#	GRS15CSS
HRS15BS98	304	Brushed Stainless	98" (2.49 m)	GRS15CSS
HRS15PS98	304	Polished Stainless	98" (2.49 m)	GRS15CSS

Minimum order: 1 each. All Hand Rail Tubing can be combined for quantity pricing. #Must ship via common carrier.

FLAT END CAPS FOR HRS15 SERIES HAND RAIL TUBING 1-1/2" (38 MM) SQUARE

CAT. NO.	GRADE	FINISH
SA10BS	304	Brushed Stainless
SA10PS	304	Polished Stainless

Minimum order: 1 each. All Railing End Caps can be combined for quantity pricing.

All CRL Hand Railing Tubing is formed using precision tooling to maintain uniform diameters, allowing for smooth hairline transitions at splices and end caps. Use our Cat. No. 7649 Primer and Cat. No. 32629 Metal Contact Cement (see page 394B) to achieve a secure and permanent bond at all connections. For Connector Sleeves see page 355B.

Standard stainless is 304 grade. Stainless 316 grade is available on special order. Contact CRL Technical Sales for more information or a quote. **NOTE:** This Tubing is not designed for guard rail posts or top rails.

CRL Thin Wall Hand Rail Tubing Fabricated Corners

- Ready to Install
- 304 Grade Stainless Welded and Finished
- Requires Two Connector Sleeves (Not Included)
- Two Round Sizes, Plus One Square Size
- Custom Angle Corners Available on Request

Interior Slip-Fit Pipe Rail Tubing Corners allow for hairline joint assemblies with straight lengths of CRL Hand Rail. Use of Cat. No. 7649 Primer and Cat. No. 32629 Metal Contact Cement is required to achieve a secure and permanent bond (see page 394B). Two Connector Sleeves are required for use with each Corner (see page 355B).

Round Corners

90°

5-1/4" (133 mm)

6" (152 mm)

90 Degree

1-1/2" (38 MM) O.D. THIN WALL FABRICATED CORNERS

CAT. NO.	CORNER ANGLE	GRADE	FINISH	USE SLEEVE NO.
HR15HBS	90 Degree	304	Brushed Stainless	GR15CSS
HR15HPS	90 Degree	304	Polished Stainless	GR15CSS
HR15HPB	90 Degree	C260	Polished Brass	GR15CSB
HR15HBSC	Custom	304	Brushed Stainless	GR15CSS
HR15HPSC	Custom	304	Polished Stainless	GR15CSS
HR15HPBC	Custom	C260	Polished Brass	GR15CSB

Minimum order: 1 each. All Hand Rail Corners can be combined for quantity pricing.

2" (51 MM) O.D. THIN WALL FABRICATED CORNERS

CAT. NO.	CORNER ANGLE	GRADE	FINISH	USE SLEEVE NO.
HR20HBS	90 Degree	304	Brushed Stainless	GR20CSS
HR20HPS	90 Degree	304	Polished Stainless	GR20CSS
HR20HPB	90 Degree	C260	Polished Brass	GR20CSB
HR20HBSC	Custom	304	Brushed Stainless	GR20CSS
HR20HPSC	Custom	304	Polished Stainless	GR20CSS
HR20HPBC	Custom	C260	Polished Stainless	GR20CSB

Minimum order: 1 each. All Hand Rail Corners can be combined for quantity pricing.

Square Corners

90 Degree

135 Degree

1-1/2" (38 MM) SQUARE FABRICATED CORNERS

CAT. NO.	CORNER ANGLE	GRADE	FINISH	USE SLEEVE NO.
HRS15HBS	90 Degree	304	Brushed Stainless	GRS15CSS
HRS15HPS	90 Degree	304	Polished Stainless	GRS15CSS
HRS15H3BS	135 Degree	304	Brushed Brass	GRS15CSS
HRS15H3PS	135 Degree	304	Polished Stainless	GRS15CSS
HRS15HBSC	Custom	304	Brushed Stainless	GRS15CSS
HRS15HPSC	Custom	304	Polished Stainless	GRS15CSS

Minimum order: 1 each. All Hand Rail Corners can be combined for quantity pricing.

3-3/4" (95 mm)

3" (76 mm)

90°

2-1/2" (64 mm)

2-3/16" (56 mm)

135°

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351B

TOLL Phone: (800) 421-6144
FREE Fax: (800) 262-3299
From Anywhere in the U.S. or Canada

CRL 1-1/4" Schedule 40 Heavy Wall Pipe Rail Tubing and End Caps

- 1.66" (42 mm) Outside Diameter
- Designed for Guard Rail, Hand Rail, Stairway, and Handicap Ramp Areas
- Polished or Brushed Stainless Steel Available in Stock Lengths or Custom Fabricated to Your Specifications

1.66" (42 mm)
.140" (3.6 mm) Wall Thickness
.115" (3 mm)

Linear Hairline Finish

PR12EC
Flat End Cap

1-1/4" SCHEDULE 40 HEAVY WALL PIPE RAIL TUBING

CAT. NO.	GRADE	FINISH	LENGTH	USE SLEEVE NO.
PR12BS10	304	Brushed Stainless	120" (3.05 m)	PR16CSS
PR12BS20	304	Brushed Stainless	240" (6.10 m)	PR16CSS
PR12PS10	304	Polished Stainless	120" (3.05 m)	PR16CSS
PR12PS20	304	Polished Stainless	240" (6.10 m)	PR16CSS

Minimum order: 1 each. All Hand Rail Tubing can be combined for quantity pricing. Must ship via common carrier.

FLAT END CAPS FOR PR12 SERIES 1.66" (42 MM) O.D. SCHEDULE 40 PIPE RAIL TUBING

CAT. NO.	GRADE	FINISH
PR12ECBS	304	Brushed Stainless
PR12ECPS	304	Polished Stainless

Minimum order: 1 each. All Railing End Caps can be combined for quantity pricing.

CRL's 1-1/4" Schedule 40 Pipe Rail Tubing is designed for guard rail, hand rail, stairway, and handicap ramp areas. Formed using precision tooling to maintain uniform diameters and allowing for smooth hairline transitions at splice and end cap locations. Use our Cat. No. 7649 Primer and Cat. No. 32629 Metal Contact Cement (see page 394B) to achieve a secure and permanent bond at all connections. For Connector Sleeves see page 355B.

CRL 1-1/2" Schedule 40 Heavy Wall Pipe Rail Tubing and End Caps

- 1.9" (48 mm) Outside Diameter
- Designed for Guard Rail, Hand Rail, Stairway, and Handicap Ramp Areas
- Four Architectural Finishes, Plus Mill Aluminum
- Available in Stock Lengths or Custom Fabricated to Your Specifications

.115" (3 mm)

Linear Hairline Finish

1.9" (48 mm)
.145" (3.7 mm) Wall Thickness
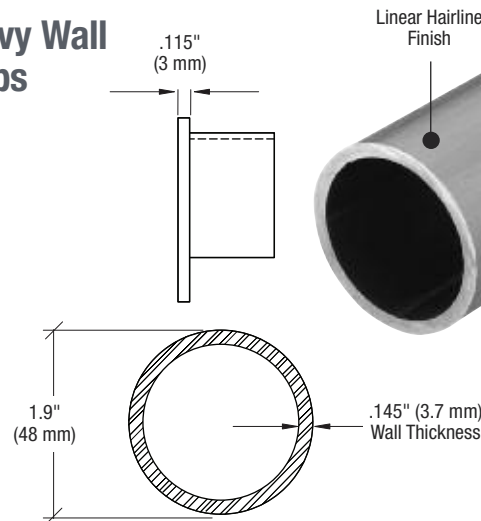
1-1/2" SCHEDULE 40 HEAVY WALL PIPE RAIL TUBING

CAT. NO.	GRADE	FINISH	LENGTH	USE SLEEVE NO.
PR15BS10	316	Brushed Stainless	120" (3.05 m)	PR19CSS
PR15BS20	316	Brushed Stainless	240" (6.10 m)	PR19CSS
PR15PS10	316	Polished Stainless	120" (3.05 m)	PR19CSS
PR15PS20	316	Polished Stainless	240" (6.10 m)	PR19CSS
HR19M	6063	Mill Aluminum	240" (6.10 m)	GR19CSM
HR19SA	6063	Satin Anodized	240" (6.10 m)	GR19CSM
HR19DU	6063	Dark Bronze Anodized	240" (6.10 m)	GR19CSM

Minimum order: 1 each. All Hand Rail Tubing can be combined for quantity pricing. Must ship via common carrier.

FLAT END CAPS FOR PR15 AND HR19 SERIES 1.9" (48 MM) O.D. SCHEDULE 40 PIPE RAIL TUBING

CAT. NO.	GRADE	FINISH
PR15ECBS	316	Brushed Stainless
PR15ECPS	316	Polished Stainless
GR19ECM	6063	Mill Aluminum
GR19ECSA	6063	Satin Anodized
GR19ECDU	6063	Dark Bronze Anodized

Minimum order: 1 each. All Railing End Caps can be combined for quantity pricing.

PR15EC Flat End Caps **GR19EC**

CRL's 1-1/2" Schedule 40 Pipe Rail Tubing is designed for guard rail, hand rail, stairway, and handicap ramp areas. Formed using precision tooling to maintain uniform diameters and allowing for smooth hairline transitions at splice and end cap locations. Use our Cat. No. 7649 Primer and Cat. No. 32629 Metal Contact Cement (see page 394B) to achieve a secure and permanent bond at all connections. For Connector Sleeves see page 355B.

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TOLL Phone: (800) 421-6144
FREE Fax: (800) 262-3299
From Anywhere in the U.S. or Canada

CRL US ALUMINUM

CRL 1-1/2" O.D. Heavy Wall Pipe Rail Tubing and End Caps

- 1-1/2" (38 mm) Outside Diameter
- Designed for Guard Rail, Hand Rail, Stairway, and Handicap Ramp Areas
- Stainless Steel or Aluminum Available in Stock Lengths or Custom Fabricated to Your Specifications

.119" (3 mm)

1.5" (38 mm)

.125" (3.2 mm) Wall Thickness

Linear Hairline Finish
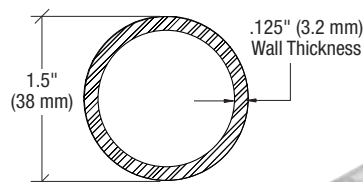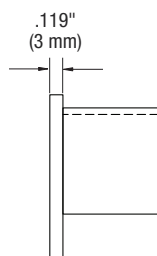
HRH15EC

1-1/2" (38 MM) O.D. HEAVY WALL PIPE RAIL TUBING

CAT. NO.	GRADE	FINISH	LENGTH	USE SLEEVE NO.
HRH15BS	304	Brushed Stainless	240" (6.10 m)	HRH15CSS
HRH15PS	304	Polished Stainless	240" (6.10 m)	HRH15CSS
HRH15M	6063	Mill Aluminum	240" (6.10 m)	RCB36
HRH15SA	6063	Satin Anodized	240" (6.10 m)	RCB36
HRH15DU	6063	Dark Bronze Anodized	240" (6.10 m)	RCB36

Minimum order: 1 each. All Hand Rail Tubing can be combined for quantity pricing. Must ship via common carrier.

FLAT END CAPS FOR HRH15 SERIES 1-1/2" (38 MM) O.D. PIPE RAIL TUBING

CAT. NO.	GRADE	FINISH
HRH15ECBS	304	Brushed Stainless
HRH15ECPS	304	Polished Stainless
HRH15ECM	6063	Mill Aluminum
HRH15ECSA	6063	Satin Anodized
HRH15ECDU	6063	Dark Bronze Anodized

Minimum order: 1 each. All Railing End Caps can be combined for quantity pricing.

CRL's 1-1/2" O.D. Pipe Rail Tubing is designed for guard rail, hand rail, stairway, and handicap ramp areas. Formed using precision tooling to maintain uniform diameters and allowing for smooth hairline transitions at splice and ends cap locations. Use our Cat. No. 7649 Primer and Cat. No. 32629 Metal Contact Cement (see page 394B) to achieve a secure and permanent bond at all connections. For Connector Sleeves see page 355B.

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TOLL Phone: (800) 421-6144
FREE Fax: (800) 262-3299
From Anywhere in the U.S. or Canada

CRL
US ALUMINUM

CRL Heavy Wall Pipe Rail Tubing Fabricated Corners

- Ready to Install
- 304 Grade Stainless Welded and Finished
- Requires Two Connector Sleeves (Not Included)
- Three Sizes in Two Architectural Finishes
- Custom Angle Corners Available on Request

Interior Slip-Fit Pipe Rail Tubing Corners allow for hairline joint assemblies with straight lengths of CRL Hand Rail. Use of Cat. No. 7649 Primer and Cat. No. 32629 Metal Contact Cement (see page 394B) is required to achieve a secure and permanent bond. Two Connector Sleeves are required for use with each Corner (see page 355B).
NOTE: Brushed Stainless has a hairline linear finish.

90°
5-1/4" (133 mm)
6" (152 mm)

90 Degree Corners

1-1/4" SCHEDULE 40 FABRICATED CORNERS

CAT. NO.	CORNER ANGLE	GRADE	FINISH	USE SLEEVE NO.
PR12HBS	90 Degree	304	Brushed Stainless	PR16CSS
PR12HPS	90 Degree	304	Polished Stainless	PR16CSS
PR12H3BS	135 Degree	304	Brushed Stainless	PR16CSS
PR12H3PS	135 Degree	304	Polished Stainless	PR16CSS
PR12540BS	Custom	304	Brushed Stainless	PR16CSS
PR12540PS	Custom	304	Polished Stainless	PR16CSS

Minimum order: 1 each. All Hand Rail Fittings can be combined for quantity pricing.

1-1/2" SCHEDULE 40 FABRICATED CORNERS

CAT. NO.	CORNER ANGLE	GRADE	FINISH	USE SLEEVE NO.
PR15HBS	90 Degree	304	Brushed Stainless	PR19CSS
PR15HPS	90 Degree	304	Polished Stainless	PR19CSS
PR15H3BS	135 Degree	304	Brushed Stainless	PR19CSS
PR15H3PS	135 Degree	304	Polished Stainless	PR19CSS
PR1540BS	Custom	304	Brushed Stainless	PR19CSS
PR1540PS	Custom	304	Polished Stainless	PR19CSS

Minimum order: 1 each. All Hand Rail Fittings can be combined for quantity pricing.

1-1/2" O.D. FABRICATED CORNERS

CAT. NO.	CORNER ANGLE	GRADE	FINISH	USE SLEEVE NO.
HRH15HBS	90 Degree	304	Brushed Stainless	HRH15CSS
HRH15HPS	90 Degree	304	Polished Stainless	HRH15CSS
HRH15H3BS	135 Degree	304	Brushed Stainless	HRH15CSS
HRH15H3PS	135 Degree	304	Polished Stainless	HRH15CSS
HRH15BSC	Custom	304	Brushed Stainless	HRH15CSS
HRH15PSC	Custom	304	Polished Stainless	HRH15CSS

Minimum order: 1 each. All Hand Rail Fittings can be combined for quantity pricing.

135°
5-5/8" (143 mm)
6" (152 mm)

135 Degree Corners

How to Properly Install Mechanical Seam Joints in Hand Rails

Mechanical (non-welded) seam joints for Hand Rails and Top Cap Rail systems require the Installer's attention to the following details in order to assure proper installation.

Detail #1: When cutting in the field, it is important that all cuts are SQUARE and carefully DEBURRED before connecting. Be sure to deburr both the inside and outside edges, taking care not to scratch the exposed surfaces. **IMPORTANT:** Dry fit all parts and inspect seams before applying adhesive.
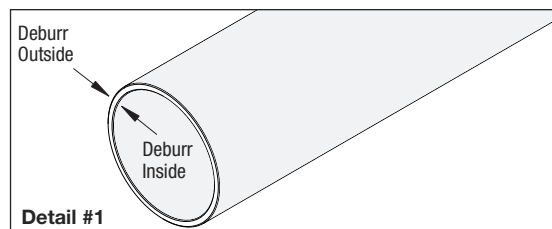
Apply Primer Cat. No. 7649 Primer to all of the bond surfaces. Immediately apply Cat. No. 32629 Contact Adhesive (see page 394B) to one of the surfaces. Position parts quickly and exactly as the adhesive begins to work immediately. Excess adhesive on outside joined surfaces can be wiped away with an organic solvent, such as our Cat. No. CRL2032 General Purpose Solvent and Adhesive Cleaner (go to **crlaurence.com/cleaners**).
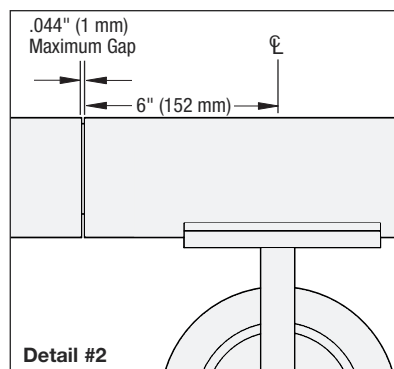
Detail #2: Maximum mechanical seam joint separation should not exceed .044" (1 mm). Over time gaps may increase due to heavy usage, surface deflections, and structure vibrations. Periodic repair including disassembly and reattachment with new adhesive may be required in order to maintain the original installation gap tolerances.

Routine inspection and maintenance will ensure many years of useful life.

Deburr Outside
Deburr Inside

Detail #1

.044" (1 mm) Maximum Gap
6" (152 mm)

Detail #2

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354B

TOLL Phone: (800) 421-6144
FREE Fax: (800) 262-3299
From Anywhere in the U.S. or Canada

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CRL Hand Rail and Pipe Rail Connector Sleeves

- Provide Proper Alignment Between Railing Splices
- Formed, Shaped to Fit, and Ready to Install

CRL Connector Sleeves are used to connect and provide proper alignment between Hand Rail and Pipe Rail splices. The 5" (127 mm) long Connector Sleeves must be compressed to fit inside the Rail. Use of our Cat. No. 7649 Primer and Cat. No. 32629 Metal Contact Cement (see page 394B) is required to achieve a secure and permanent bond at all connections.

CONNECTOR SLEEVE FOR 1-1/4" PIPE RAIL TUBING (.140" WALL THICKNESS)

CAT. NO.	MATERIAL	FOR USE WITH
PR16CSS	Stainless Steel	PR12 Series 1-1/4" Stainless Steel Pipe Rail Tubing

CONNECTOR SLEEVES FOR 1-1/2" O.D. PIPE RAIL TUBING (.125" WALL THICKNESS)

CAT. NO.	MATERIAL	FOR USE WITH
HRH15CSS	Stainless Steel	HRH15 Series 1-1/2" O.D. Stainless Steel Pipe Rail Tubing
RCB36	Mill Aluminum	HRH15 Series 1-1/2" O.D. Aluminum Pipe Rail Tubing

CONNECTOR SLEEVES FOR 1-1/2" DIAMETER THIN WALL TUBING (.049" WALL THICKNESS)

CAT. NO.	MATERIAL	FOR USE WITH
GR15CSS	Stainless Steel	HR15 Series 1-1/2" Stainless Steel Hand Rail Tubing
GR15CSB	Brass	HR15 Series 1-1/2" Brass Hand Rail Tubing

CONNECTOR SLEEVE FOR 1-1/2" SQUARE THIN WALL TUBING (.049" WALL THICKNESS)

CAT. NO.	MATERIAL	FOR USE WITH
GRS15CSS	Stainless Steel	HRS15 Series 1-1/2" Stainless Steel Square Hand Rail Tubing

CONNECTOR SLEEVES FOR 1.9" DIAMETER TUBING (.145" WALL THICKNESS)

CAT. NO.	MATERIAL	FOR USE WITH
PR19CSS	Stainless Steel	PR15 Series 1-1/2" Schedule 40 Stainless Steel Pipe Rail Tubing
GR19CSM	Mill Aluminum	HR19 Series 1.9" Aluminum Pipe Rail Tubing

CONNECTOR SLEEVES FOR 2" DIAMETER THIN WALL TUBING (.049" WALL THICKNESS)

CAT. NO.	MATERIAL	FOR USE WITH
GR20CSS	Stainless Steel	HR20 Series 2" Stainless Steel Hand Rail Tubing
GR20CSB	Brass	HR20 Series 2" Brass Hand Rail Tubing

Minimum order: 1 each.

Important Installation Note: Always Use Connector Sleeves Made of the Same Metal as the Cap Rail, Cap Rail Corner, or Hand Rail Metal.

CRL Hand Rail and Pipe Rail Internal Splice Corners

- Designed for Aluminum Tubing Only
- Ready to Install
- Custom Angles Available Upon Request

ONLINE *ARCHITECTURAL*
R E S O U R C E S

CRL Internal Splices are used with aluminum tubing to make corners with the proper alignment. Use of our Cat. No. 7649 Primer and Cat. No. 32629 Metal Contact Cement (see page 394B) is required to achieve a secure and permanent bond at all connections.

INTERNAL SPLICE CORNERS FOR 1-1/2" O.D. PIPE RAIL TUBING (.125" WALL THICKNESS)

CAT. NO.	ANGLE	FOR USE WITH
HRH1590M	90 Degree	HRH15 Series 1-1/2" O.D. Aluminum Pipe Rail Tubing
HRH15135M	135 Degree	HRH15 Series 1-1/2" O.D. Aluminum Pipe Rail Tubing
HRH1532M	148 Degree	HRH15 Series 1-1/2" O.D. Aluminum Pipe Rail Tubing

Minimum order: 1 each.

INTERNAL SPLICE CORNERS FOR 1.9" DIAMETER SCHEDULE 40 PIPE RAIL TUBING (.145" WALL THICKNESS)

CAT. NO.	ANGLE	FOR USE WITH
HR1S90M	90 Degree	HR19 Series 1.9" Aluminum Pipe Rail Tubing
HR1S135M	135 Degree	HR19 Series 1.9" Aluminum Pipe Rail Tubing

Minimum order: 1 each.

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355B

TOLL Phone: (800) 421-6144
FREE Fax: (800) 262-3299
From Anywhere in the U.S. or Canada

CRL US ALUMINUM

CRL Wood Hand Rails

- 10' (3.05 m) Stock Lengths Available in a Variety of Hardwoods
- Custom Diameters and Shapes Also Available

Wood Hand Rails add a "warmth and texture" that metal hand rails can't duplicate, and are very popular for their natural appearance and feel.

CRL Wood Hand Rails are available in a variety of hardwoods. The standard stock length is 10 feet (3.05 m), but longer lengths are available on special order and dependent upon the type of wood selected.

In most circumstances Wood Hand Rails must be either 1-1/2" (38 mm) or 2" (51 mm) in diameter to be compliant with local codes. CRL offers both diameters with the option of available matching Dome End Caps (see below).

Our Railing Technical Sales Staff can help you with the selection of the type of wood that will best suit your wood railing project. Delivery is dependent on availability of the wood selected and production time. All Wood Hand Rails are shipped unfinished, ready to be stained at the job site.

NOTE: Wood Hand Rails are affected by changes in humidity levels. Warping may occur if Wood Hand Rails are not properly stored prior to installation. All Wood Hand Rails are shipped in secure packaging and should be left inside their containers until the actual installation.

Ash   Cherry

White Oak   Walnut

Red Oak   Poplar

Mahogany   Maple

120" (3.05 M) WOOD HAND RAIL LENGTHS

1-1/2" (38 MM) DIAMETER CAT. NO.	2" (51 MM) DIAMETER CAT. NO.	WOOD TYPE
WD15WL	WD20WL	Walnut
WD15CR	WD20CR	Cherry
WD15MG	WD20MG	Mahogany
WD15WO	WD20WO	White Oak
WD15RO	WD20RO	Red Oak
WD15AS	WD20AS	Ash
WD15PL	WD20PL	Poplar
WD15MP	WD20MP	Maple

Minimum order: 1 each. Standard length is 120" (3.05 m). Custom lengths are available on request. Contact CRL Railing Technical Sales for information or a quote. All Wood Rails are F.O.B. the nearest CRL service center.

CRL Dome End Caps for Wood Hand Rails

- Formed and Shaped to Fit, and Ready to Install
- Available in a Variety of Hardwoods

CRL's Wood Dome End Caps are cut to size and ready to install. Measuring 1" (25 mm) thick, these End Caps are designed to be glued to the end of the CRL's Wood Hand Rails with wood glue (see page 395B). Contact CRL Technical Sales for more information.

1-1/2" (38 MM) DIAMETER END CAPS	2" (51 MM) DIAMETER END CAPS	WOOD TYPE
WRDC15WL	WRDC20WL	Walnut
WRDC15CR	WRDC20CR	Cherry
WRDC15MG	WRDC20MG	Mahogany
WRDC15WO	WRDC20WO	White Oak
WRDC15RO	WRDC20RO	Red Oak
WRDC15AS	WRDC20AS	Ash
WRDC15PL	WRDC20PL	Poplar
WRDC15MP	WRDC20MP	Maple

Minimum order: 1 each. All sizes and finishes can be combined for quantity pricing.

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TOLL Phone: (800) 421-6144
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From Anywhere in the U.S. or Canada

CRL U.S. ALUMINUM

CRL Blumcraft® Hand Railings

BLUMCRAFT
A DIVISION OF C.R. LAURENCE CO., INC.
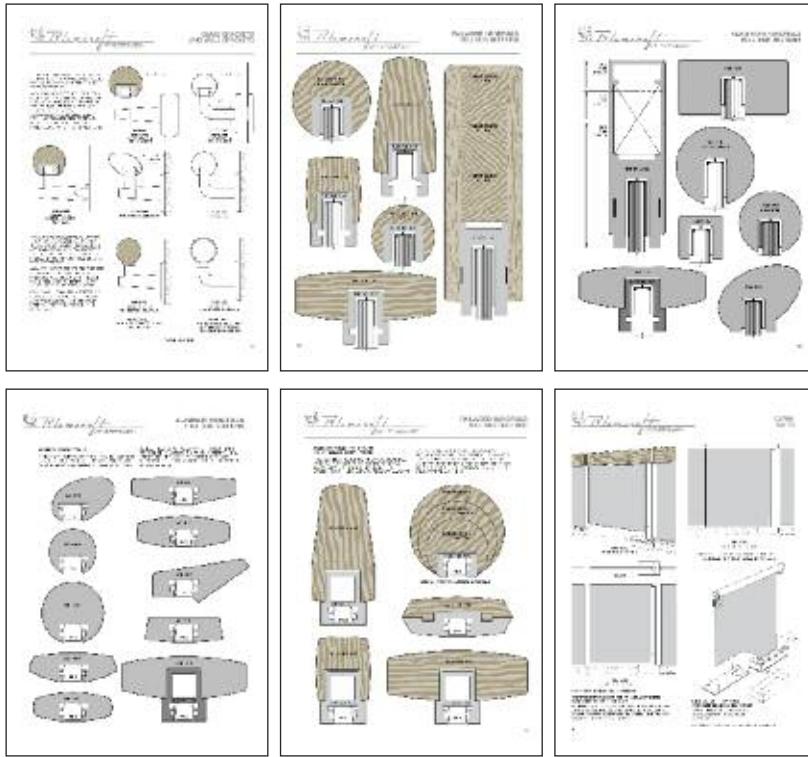
CRL Blumcraft manufactures a variety of Hand Rail and Railing Brackets that can be mounted directly to a wall or through glass panels. Our aluminum and wood Hand Rails are available in numerous configurations and sizes. All of these systems and their optional extras can be seen in their entirety at **crlaurence.com/blumcraft-railings**.
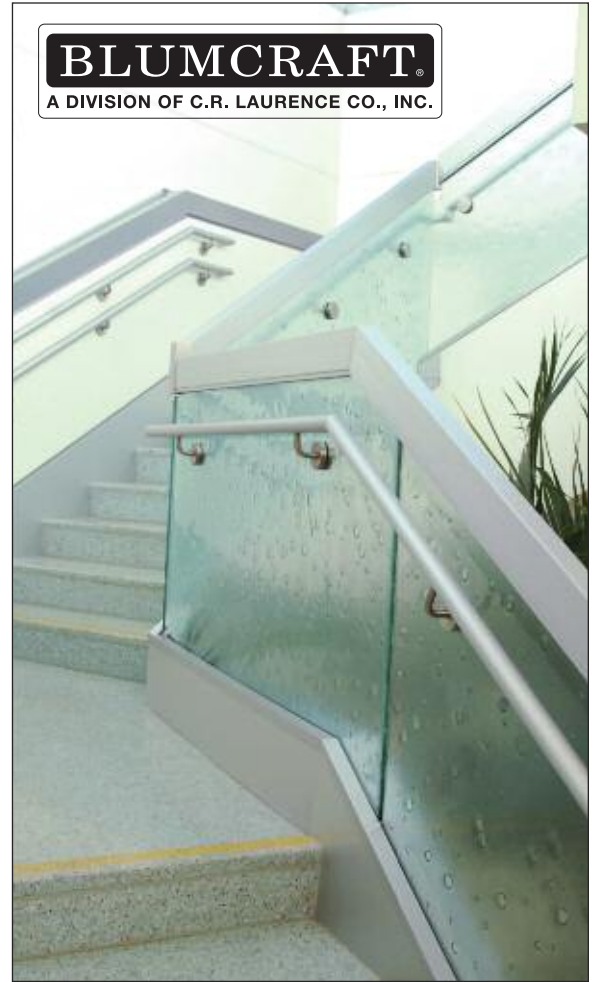
CRL Blumcraft® Custom Fabricated Hand Rail Post Kits

• Solid Construction With Innovative Designs
• Satin Anodized and Dark Bronze Anodized Architectural Finishes
• Custom Finishes Available Upon Request

CRL Blumcraft® manufactures a comprehensive selection of Hand Rail Post Kits that combine the durability of solid aluminum construction with innovative designs and engineering. This ensures long term structural integrity and enhances project aesthetics.

For additional Post Kit information, go to **crlaurence.com/blumcraft-railings** or contact CRL Technical Sales at (800) 421-6144 in U.S., (877) 421-6144 from Canada, or (323) 588-1281 International, and ask for Ext. 7730. You can also email us at **railings@crlaurence.com**.

CAT. NO. NW4C

CAT. NO. SPN1C

Round Posts are Available With Rail Connections Either Centered or Offset

CAT. NO. 313C

CAT. NO. PCNSPN1C

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or enter the Catalog Number for complete product information

357B

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FREE Fax: (800) 262-3299
From Anywhere in the U.S. or Canada
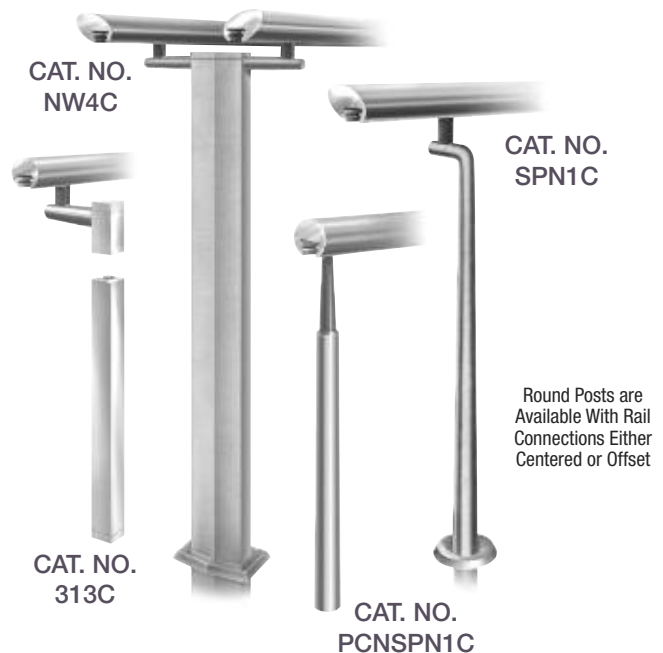
CRL US ALUMINUM

CRL Blumcraft® 583, 537, and 576 Series Extruded Aluminum Hand Railings

- Ready to Install
- Two Architectural Finishes, Plus Mill Aluminum
- Requires End Caps, Splice Pins, and Snap-In Pocket Fillers (Not Included)

BLUMCRAFT®
A DIVISION OF C.R. LAURENCE CO., INC.

CRL Blumcraft's Aluminum Hand Railings are extruded from 6063 alloy, which is suitable for custom finishes such as anodizing and powder coating. The use of our Cat. No. 22A58 Splice Pins (see page 251B) is required to achieve a secure and permanent mechanical connection at each splice joint. Please contact CRL Blumcraft Technical Sales for more information or a quote. **NOTE:** Splice Pins (see page 251B), Corner Splices, Snap-In Pocket Fillers, and Aluminum End Caps are all sold separately (see below).

583 Series

537 Series

576 Series

1/2" (13 mm)

583 Series

BCSP1HA*
Horizontal Adjustable
Corner Splice

BCSP1*
180 Degree
Splice Plate

BCSP1VA*
Vertical Adjustable
Corner Splice

*Available in Satin Anodized, Dark Bronze Anodized, and Mill Finish

1/2" (13 mm)

537 Series

1/2" (13 mm)

576 Series
Right Hand Shown

583 Series
1-1/2" (38 mm)
Diameter Hand Rail
Shown With Optional
FS3 Snap-In Pocket Filler

537 Series
2" (51 mm)
Diameter Hand Rail
Shown With Optional
FS3 Snap-In Pocket Filler

576 Series
2" x 1-3/8"
(51 mm x 35 mm)
Oval Hand Rail
Shown With Optional
FS3 Snap-In Pocket Filler

583 SERIES EXTRUDED ALUMINUM HAND RAILINGS

CAT. NO.	FINISH	LENGTH	USE SPLICE PIN
583SA	Satin Anodized	120" (3.05 m)	22A58
583DU	Dark Bronze Anodized	120" (3.05 m)	22A58
583M	Mill Aluminum	120" (3.05 m)	22A58

Minimum order: 1 each. Must ship via common carrier.

583 SERIES ALUMINUM END CAPS

CAT. NO.	FINISH	FITS HAND RAIL
583ECSA	Satin Anodized	583 Series
583ECDU	Dark Bronze Anodized	583 Series
583ECM	Mill Aluminum	583 Series

Minimum order: 1 each.

537 SERIES EXTRUDED ALUMINUM HAND RAILINGS

CAT. NO.	FINISH	LENGTH	USE SPLICE PIN
537SA	Satin Anodized	120" (3.05 m)	22A58
537DU	Dark Bronze Anodized	120" (3.05 m)	22A58
537M	Mill Aluminum	120" (3.05 m)	22A58

Minimum order: 1 each. Must ship via common carrier.

537 SERIES ALUMINUM END CAPS

CAT. NO.	FINISH	FITS HAND RAIL
537ECSA	Satin Anodized	537 Series
537ECDU	Dark Bronze Anodized	537 Series
537ECM	Mill Aluminum	537 Series

Minimum order: 1 each.

576 SERIES EXTRUDED ALUMINUM HAND RAILINGS

CAT. NO.	FINISH	LENGTH	USE SPLICE PIN
576SA	Satin Anodized	120" (3.05 m)	22A58
576DU	Dark Bronze Anodized	120" (3.05 m)	22A58
576M	Mill Aluminum	120" (3.05 m)	22A58

Minimum order: 1 each. Must ship via common carrier.

576 SERIES ALUMINUM END CAPS

LEFT HAND CAT. NO.	RIGHT HAND CAT. NO.	FINISH	FITS HAND RAIL
576LECSA	576RECSA	Satin Anodized	576 Series
576LECDU	576RECDU	Dark Bronze Anodized	576 Series
576LECM	576RECM	Mill Aluminum	576 Series

Minimum order: 1 each.

SNAP-IN POCKET FILLERS

CAT. NO.	FINISH	LENGTH	FOR USE WITH
FS3SA	Satin Anodized	48" (1219 mm)	537, 576, 583 Hand Rails
FS3DU	Dark Bronze Anodized	48" (1219 mm)	537, 576, 583 Hand Rails
FS3M	Mill Aluminum	48" (1219 mm)	537, 576, 583 Hand Rails

Minimum order: 1 each.

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358B

TOLL Phone: (800) 421-6144
FREE Fax: (800) 262-3299
From Anywhere in the U.S. or Canada

CRL
US ALUMINUM

CRL Blumcraft® 597, 580, and 572 Series Wood Hand Railings

- 10 Foot (3.05 m) Stock Lengths Available in a Variety of Hardwoods
- Included Sub-Rails Come in Satin Anodized and Dark Bronze Anodized Finishes
- Requires End Caps, Wood Biscuits, and Snap-In Pocket Fillers (Not Included)

BLUMCRAFT®
A DIVISION OF C.R. LAURENCE CO., INC.

CRL Blumcraft's Wood Hand Railings are produced to the customer's specifications, and can be fully fabricated or shipped in 10 foot (3.05 m) lengths. Offered in a variety of hardwoods with satin anodized or dark bronze anodized Sub Rails, this system is an attractive alternative to solid aluminum Hand Rails.

NOTE: Wood Biscuits (see page 395B), Corner Splices, Snap-In Pocket Fillers, and Aluminum End Caps are all sold separately (see below).

597 Series

580 Series

572 Series

1/2" (13 mm)

597 Series

1/2" (13 mm)

580 Series

1/2" (13 mm)

572 Series

BCSP1HA*
Horizontal Adjustable Corner Splice

BCSP1*
180 Degree Splice Plate

BCSP1VA*
Vertical Adjustable Corner Splice

*Available in Satin Anodized, Dark Bronze Anodized, and Mill Finish
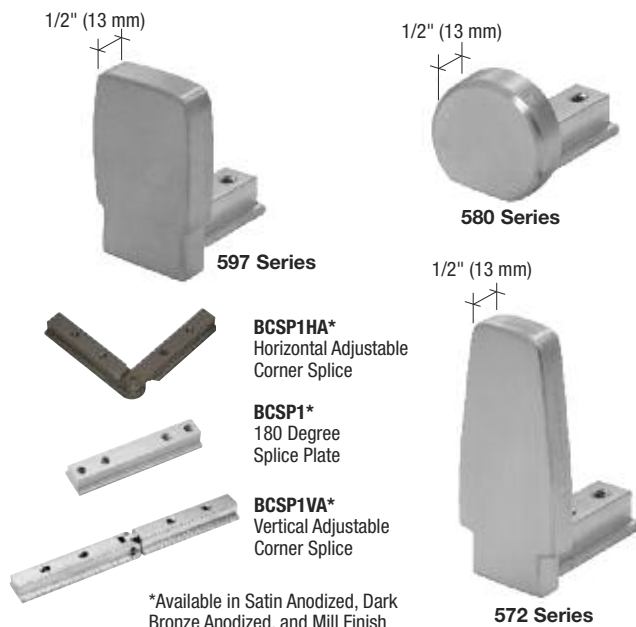
AVAILABLE FINISHES

- Walnut
- Cherry
- Mahogany
- White Oak
- Red Oak
- Ash
- Poplar
- Maple

597 Series
1-3/4" x 2-3/4"
(45 mm x 70 mm)
Hand Rail Shown
With Optional FS3
Snap-In Pocket Filler

FS3
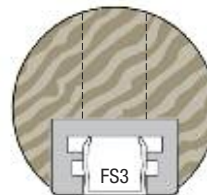
580 Series
2" (51 mm)
Diameter Hand Rail
Shown With Optional
FS3 Snap-In Pocket Filler

FS3

572 Series
2" x 4-1/2"
(51 mm x 114 mm)
Hand Rail Shown
With Optional FS3
Snap-In Pocket Filler

FS3

597 SERIES ALUMINUM END CAPS

CAT. NO.	FINISH	FITS HAND RAIL
597ECSA	Satin Anodized	597 Series
597ECDU	Dark Bronze Anodized	597 Series
597ECM	Mill Aluminum	597 Series

Minimum order: 1 each.

580 SERIES ALUMINUM END CAPS

CAT. NO.	FINISH	FITS HAND RAIL
580ECSA	Satin Anodized	580 Series
580ECDU	Dark Bronze Anodized	580 Series
580ECM	Mill Aluminum	580 Series

Minimum order: 1 each.

572 SERIES ALUMINUM END CAPS

CAT. NO.	FINISH	FITS HAND RAIL
572ECSA	Satin Anodized	572 Series
572ECDU	Dark Bronze Anodized	572 Series
572ECM	Mill Aluminum	572 Series

Minimum order: 1 each.

597 SERIES WOOD HAND RAILINGS

CAT. NO.	DESCRIPTION	LENGTH	USE SPLICE BISCUIT
597C*	1-3/4" x 2-3/4" (45 x 70 mm) Wood Hand Rail	120" (3.05 m)	CRLWB1

Minimum order: 1 each. *Specify Wood Type and Sub-Rail finish when ordering. Must ship via common carrier.

580 SERIES WOOD HAND RAILINGS

CAT. NO.	DESCRIPTION	LENGTH	USE SPLICE BISCUIT
580C*	2" (51 mm) Diameter Wood Hand Rail	120" (3.05 m)	CRLWB1

Minimum order: 1 each. *Specify Wood Type and Sub-Rail finish when ordering. Must ship via common carrier.

572 SERIES WOOD HAND RAILINGS

CAT. NO.	DESCRIPTION	LENGTH	USE SPLICE BISCUIT
572C*	2" x 4-1/2" (51 x 114 mm) Wood Hand Rail	120" (3.05 m)	CRLWB1

Minimum order: 1 each. *Specify Wood Type and Sub-Rail finish when ordering. Must ship via common carrier.

SNAP-IN POCKET FILLER

CAT. NO.	FINISH	LENGTH	FOR USE WITH
FS3SA	Satin Anodized	48" (1219 mm)	572, 580, 597 Hand Rails
FS3DU	Dark Bronze Anodized	48" (1219 mm)	572, 580, 597 Hand Rails
FS3M	Mill Aluminum	48" (1219 mm)	572, 580, 597 Hand Rails

Minimum order: 1 each. All Snap-In Pocket Fillers can be combined for quantity pricing.

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From Anywhere in the U.S. or Canada

CRL US ALUMINUM

CRL Blumcraft® Pacific Series
Glass Mounted Hand Rail Brackets

- For 1-1/2" to 2" (38 to 51 mm) Diameter Round Non-Slotted Hand Rail Tubing

- Four Architectural Finishes, Plus Mill Aluminum

- Designed for 1/2" to 1-1/16" (12 to 25.52 mm) Thick Tempered Glass

USE MONOLITHIC TEMPERED GLASS

or

USE LAMINATED TEMPERED GLASS

NOTE: Requires 3/4" (19 mm) hole in glass

3/8"-16 Bolt Thread

2-3/4" (70 mm)

5/8" (16 mm)

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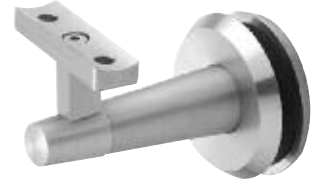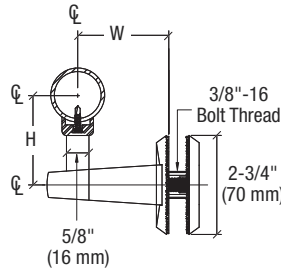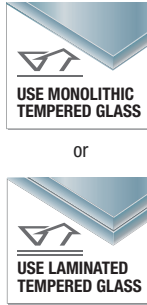
Uses Two PRS1032TC Flat Head Phillips #10-32 x 3/4" Stainless Steel Thread Cutting Machine Screws to Attach Hand Rail (not included). See Page 303B.

CAT. NO.	FINISH	C/L-"W"	1-1/2" C/L-"H"
WBNSCSA	6063 Satin Anodized	2-9/16" (65 mm)	2-1/2" (64 mm)
WBNSCDU	6063 Dark Bronze Anodized	2-9/16" (65 mm)	2-1/2" (64 mm)
WBNSCM	6063 Mill Aluminum	2-9/16" (65 mm)	2-1/2" (64 mm)

Minimum order: 1 each. All Railing Brackets can be combined for quantity pricing.

CAT. NO.	FINISH	C/L-"W"	1-1/2" C/L-"H"
WBNSCBS	316 Brushed Stainless	2-9/16" (65 mm)	2-1/2" (64 mm)
WBNSCPS	316 Polished Stainless	2-9/16" (65 mm)	2-1/2" (64 mm)

Minimum order: 1 each. All Railing Brackets can be combined for quantity pricing.

CRL Blumcraft® Pacific Series
Glass Mounted Hand Rail Brackets

- Only for Use With CRL Blumcraft's 537, 572, 576, 580, 583, and 597 Slotted Hand Rails

- Four Architectural Finishes, Plus Mill Aluminum

- Designed for 1/2" to 1-1/16" (12 to 25.52 mm) Thick Tempered Glass

NOTE: Requires 3/4" (19 mm) hole in glass

3/8"-16 Bolt Thread

2-3/4" (70 mm)

5/8" (16 mm)

USE MONOLITHIC TEMPERED GLASS

or

USE LAMINATED TEMPERED GLASS
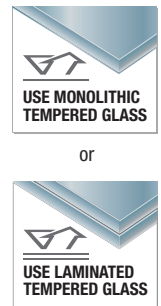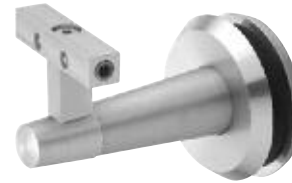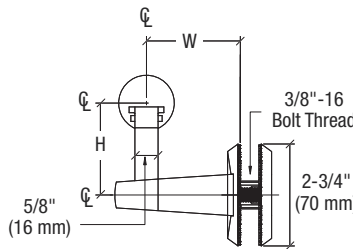
CAT. NO.	FINISH	C/L-"W"	1-1/2" C/L-"H"
WBNGSA	6063 Satin Anodized	2-9/16" (65 mm)	2-1/2" (64 mm)
WBNGDU	6063 Dark Bronze Anodized	2-9/16" (65 mm)	2-1/2" (64 mm)
WBNGM	6063 Mill Aluminum	2-9/16" (65 mm)	2-1/2" (64 mm)

Minimum order: 1 each. All Railing Brackets can be combined for quantity pricing.

CAT. NO.	FINISH	C/L-"W"	1-1/2" C/L-"H"
WBNGBS	316 Brushed Stainless	2-9/16" (65 mm)	2-1/2" (64 mm)
WBNGPS	316 Polished Stainless	2-9/16" (65 mm)	2-1/2" (64 mm)

Minimum order: 1 each. All Railing Brackets can be combined for quantity pricing.

CRL Blumcraft® Pacific Series
## Wall Mounted Hand Rail Brackets

- Only for Use With CRL Blumcraft's 537, 572, 576, 580, 583, and 597 Slotted Hand Rails

- Four Architectural Finishes, Plus Mill Aluminum

2-3/4" (70 mm)

5/8" (16 mm)

3/8"-16 x 3" Long Hanger Bolt Supplied

(See Pages 371B-372B for Replacement Screws)

CAT. NO.	FINISH	C/L-"W"	1-1/2" C/L-"H"
WBNWSA	6063 Satin Anodized	2-9/16" (65 mm)	2-1/2" (64 mm)
WBNWDU	6063 Dark Bronze Anodized	2-9/16" (65 mm)	2-1/2" (64 mm)
WBNWM	6063 Mill Aluminum	2-9/16" (65 mm)	2-1/2" (64 mm)

Minimum order: 1 each. All Railing Brackets can be combined for quantity pricing.
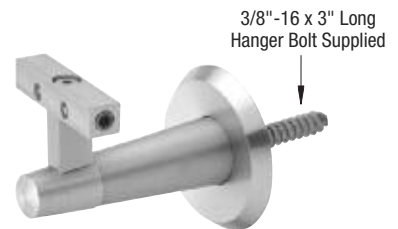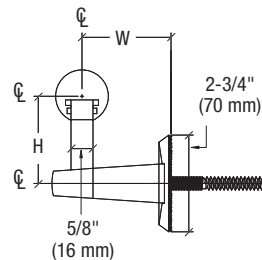
CAT. NO.	FINISH	C/L-"W"	1-1/2" C/L-"H"
WBNWBS	316 Brushed Stainless	2-9/16" (65 mm)	2-1/2" (64 mm)
WBNWPS	316 Polished Stainless	2-9/16" (65 mm)	2-1/2" (64 mm)

Minimum order: 1 each. All Railing Brackets can be combined for quantity pricing.

CRL Blumcraft® Pacific Series
## Post Mounted Hand Rail Brackets

- Only for Use With CRL Blumcraft's 537, 572, 576, 580, 583, and 597 Slotted Hand Rails

- Four Architectural Finishes, Plus Mill Aluminum

5/8" (16 mm)

3/8"-16 Threaded Bolt Supplied

(See Pages 371B-372B for Replacement Screws)

CAT. NO.	FINISH	C/L-"W"	1-1/2" C/L-"H"
WBNNBSA	6063 Satin Anodized	2-9/16" (65 mm)	2-1/2" (64 mm)
WBNNBDU	6063 Dark Bronze Anodized	2-9/16" (65 mm)	2-1/2" (64 mm)
WBNNBM	6063 Mill Aluminum	2-9/16" (65 mm)	2-1/2" (64 mm)

Minimum order: 1 each. All Railing Brackets can be combined for quantity pricing.
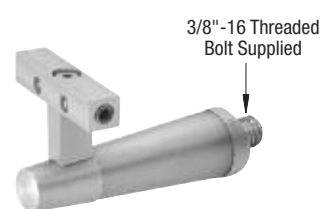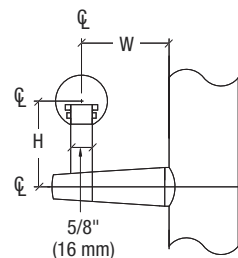
CAT. NO.	FINISH	C/L-"W"	1-1/2" C/L-"H"
WBNNBBS	316 Brushed Stainless	2-9/16" (65 mm)	2-1/2" (64 mm)
WBNNBPS	316 Polished Stainless	2-9/16" (65 mm)	2-1/2" (64 mm)

Minimum order: 1 each. All Railing Brackets can be combined for quantity pricing.

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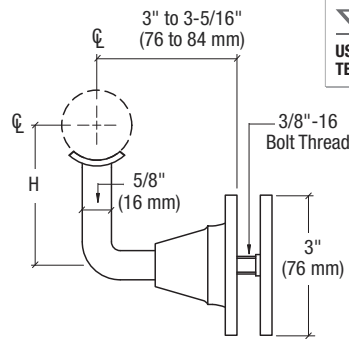
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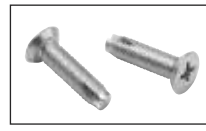**FREE** Fax: (800) 262-3299
From Anywhere in the U.S. or Canada

CRL US ALUMINUM

CRL Blumcraft® Imperial Series Glass Mounted Hand Rail Brackets

- For 1-1/2" to 2" (38 to 51 mm) Diameter Round Non-Slotted Hand Rail Tubing
- Four Architectural Finishes, Plus Mill Aluminum
- Designed for 1/2" to 1-1/16" (12 to 25.52 mm) Thick Tempered Glass

USE MONOLITHIC TEMPERED GLASS

or

USE LAMINATED TEMPERED GLASS

NOTE: Requires 3/4" (19 mm) hole in glass

3/8"-16 Bolt Thread
2-1/2" (64 mm)
5/8" (16 mm)

BLUMCRAFT®
A DIVISION OF C.R. LAURENCE CO., INC.

Uses Two PRS1032TC Flat Head Phillips #10-32 x 3/4" Stainless Steel Thread Cutting Machine Screws to Attach Hand Rail (not included). See Page 303B.

CAT. NO.	FINISH	C/L-"W"	1-1/2" C/L-"H"
WBNCCSA	6063 Satin Anodized	2-1/2" (64 mm)	2-7/16" (62 mm)
WBNCCDU	6063 Dark Bronze Anodized	2-1/2" (64 mm)	2-7/16" (62 mm)
WBNCCM	6063 Mill Aluminum	2-1/2" (64 mm)	2-7/16" (62 mm)

Minimum order: 1 each. All Railing Brackets can be combined for quantity pricing.

CAT. NO.	FINISH	C/L-"W"	1-1/2" C/L-"H"
WBNCCBS	316 Brushed Stainless	2-1/2" (64 mm)	2-7/16" (62 mm)
WBNCCPS	316 Polished Stainless	2-1/2" (64 mm)	2-7/16" (62 mm)

Minimum order: 1 each. All Railing Brackets can be combined for quantity pricing.

CRL Blumcraft® Imperial Series Glass Mounted Hand Rail Brackets

- Only for Use With CRL Blumcraft's 537, 572, 576, 580, 583, and 597 Slotted Hand Rails
- Four Architectural Finishes, Plus Mill Aluminum
- Designed for 1/2" to 1-1/16" (12 to 25.52 mm) Thick Tempered Glass

NOTE: Requires 3/4" (19 mm) hole in glass

3/8"-16 Bolt Thread
2-1/2" (64 mm)
5/8" (16 mm)

USE MONOLITHIC TEMPERED GLASS

or

USE LAMINATED TEMPERED GLASS

CAT. NO.	FINISH	C/L-"W"	1-1/2" C/L-"H"
WBNCGSA	6063 Satin Anodized	2-1/2" (64 mm)	2" (51 mm)
WBNCGDU	6063 Dark Bronze Anodized	2-1/2" (64 mm)	2" (51 mm)
WBNCGM	6063 Mill Aluminum	2-1/2" (64 mm)	2" (51 mm)

Minimum order: 1 each. All Railing Brackets can be combined for quantity pricing.
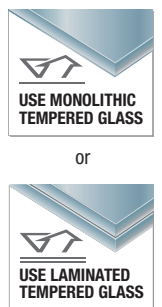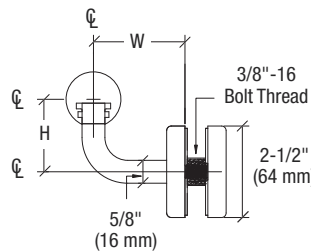
CAT. NO.	FINISH	C/L-"W"	1-1/2" C/L-"H"
WBNCGBS	316 Brushed Stainless	2-1/2" (64 mm)	2" (51 mm)
WBNCGPS	316 Polished Stainless	2-1/2" (64 mm)	2" (51 mm)

Minimum order: 1 each. All Railing Brackets can be combined for quantity pricing.

CRL Blumcraft® Imperial Series Wall Mounted Hand Rail Brackets

- Only for Use With CRL Blumcraft's 537, 572, 576, 580, 583, and 597 Slotted Hand Rails
- Four Architectural Finishes, Plus Mill Aluminum

2-1/2" (64 mm)
5/8" (16 mm)

3/8"-16 x 3" Long Hanger Bolt Supplied

(See Pages 371B-372B for Replacement Screws)

CAT. NO.	FINISH	C/L-"W"	1-1/2" C/L-"H"
WBNCSSA	6063 Satin Anodized	2-1/2" (64 mm)	2" (51 mm)
WBNCSDU	6063 Dark Bronze Anodized	2-1/2" (64 mm)	2" (51 mm)
WBNCSM	6063 Mill Aluminum	2-1/2" (64 mm)	2" (51 mm)

Minimum order: 1 each. All Railing Brackets can be combined for quantity pricing.
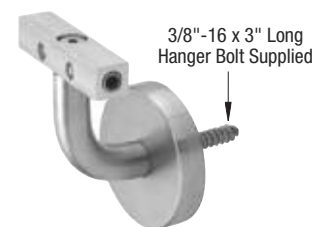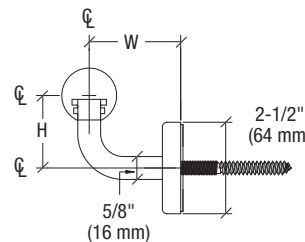
CAT. NO.	FINISH	C/L-"W"	1-1/2" C/L-"H"
WBNCSBS	316 Brushed Stainless	2-1/2" (64 mm)	2" (51 mm)
WBNCSPS	316 Polished Stainless	2-1/2" (64 mm)	2" (51 mm)

Minimum order: 1 each. All Railing Brackets can be combined for quantity pricing.

CRL Blumcraft® Imperial Series Post Mounted Hand Rail Brackets

- Only for Use With CRL Blumcraft's 537, 572, 576, 580, 583, and 597 Slotted Hand Rails
- Four Architectural Finishes, Plus Mill Aluminum

5/8" (16 mm)

3/8"-16 Threaded Bolt Supplied

(See Pages 371B-372B for Replacement Screws)

CAT. NO.	FINISH	C/L-"W"	1-1/2" C/L-"H"
WBNCPSA	6063 Satin Anodized	2-1/2" (64 mm)	2" (51 mm)
WBNCPDU	6063 Dark Bronze Anodized	2-1/2" (64 mm)	2" (51 mm)
WBNCPM	6063 Mill Aluminum	2-1/2" (64 mm)	2" (51 mm)

Minimum order: 1 each. All Railing Brackets can be combined for quantity pricing.

CAT. NO.	FINISH	C/L-"W"	1-1/2" C/L-"H"
WBNCPBS	316 Brushed Stainless	2-1/2" (64 mm)	2" (51 mm)
WBNCPPS	316 Polished Stainless	2-1/2" (64 mm)	2" (51 mm)

Minimum order: 1 each. All Railing Brackets can be combined for quantity pricing.

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361B

TOLL Phone: (800) 421-6144
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CRL US ALUMINUM
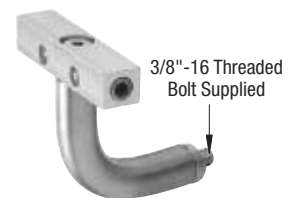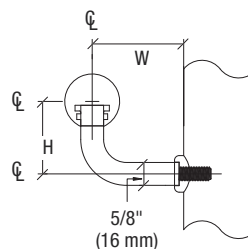
CRL Shore Series Glass Mounted Hand Rail Brackets

- Ready-to-Install for 1-1/2" to 2" (38 to 51 mm) Diameter Hand Rail Tubing
- Two Architectural Finishes Available
- Suitable for 1/2" to 1-1/16" (12 to 25.52 mm) Glass Thickness
- Can Also be Used for Wall Applications
- 316 Grade Stainless Steel
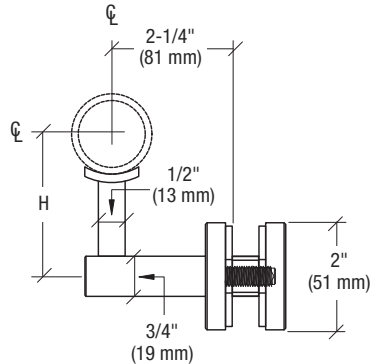
2-1/4" (81 mm)
1/2" (13 mm)
H
2" (51 mm)
3/4" (19 mm)

NOTE: Requires 3/4" (19 mm) hole in glass

Two PRS1032TC Flat Head Phillips #10-32 x 3/4" Stainless Steel Thread Cutting Machine Screws Included

Optional Flat Hand Rail Adapter Plate
*CAT. NO. HBFP1

NEW!

USE MONOLITHIC TEMPERED GLASS   or   USE LAMINATED TEMPERED GLASS
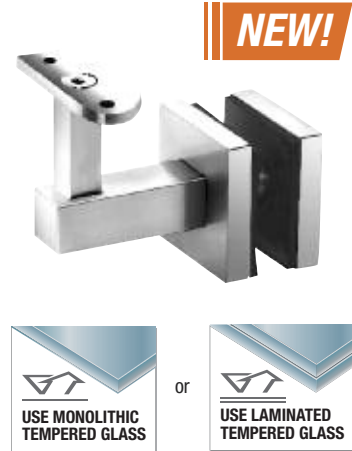
CAT. NO.	GRADE	FINISH	1-1/2" & 1.66 " C/L-"H"	1.9" & 2" C/L-"H"
HR5EGBS	316	Brushed Stainless	2-11/16" (68 mm)	2-15/16" (75 mm)
HR5EGPS	316	Polished Stainless	2-11/16" (68 mm)	2-15/16" (75 mm)

Minimum order: 1 each. All Railing Brackets can be combined for quantity pricing. *Specify finish at time of order.

CRL Shore Series Wall Mounted Hand Rail Brackets

- Ready-to-Install for 1-1/2" to 2" (38 to 51 mm) Diameter Hand Rail Tubing
- Two Architectural Finishes Available
- 316 Grade Stainless Steel

2-1/4" (81 mm)
1/2" (13 mm)
H
3/8"-16 Bolt Thread
2" (51 mm)
3/4" (19 mm)

Two PRS1032TC Flat Head Phillips #10-32 x 3/4" Stainless Steel Thread Cutting Machine Screws Included

Optional Flat Hand Rail Adapter Plate
*CAT. NO. HBFP1

NEW!

3/8"-16 x 3" Hanger Bolt Supplied. (See Pages 371B-372B for Replacement Screws)

CAT. NO.	GRADE	FINISH	1-1/2" & 1.66" C/L-"H"	1.9" & 2" C/L-"H"
HR5EWBS	316	Brushed Stainless	2-11/16" (68 mm)	2-15/16" (75 mm)
HR5EWPS	316	Polished Stainless	2-11/16" (68 mm)	2-15/16" (75 mm)

Minimum order: 1 each. All Railing Brackets can be combined for quantity pricing. *Specify finish at time of order.

CRL Shore Series Post Mounted Hand Rail Brackets

- Supports for 1-1/2" to 2" (38 to 51 mm) Diameter Hand Railing Tubing
- Ready to Mount to 1-1/4" to 1-1/2" (32 to 38 mm) Schedule 40 Vertical Posts
- Two Architectural Finishes Available
- 316 Grade Stainless Steel

2-1/4" (81 mm)
1/2" (13 mm)
H
3/4" (19 mm)

Two PRS1032TC Flat Head Phillips #10-32 x 3/4" Stainless Steel Thread Cutting Machine Screws Included

Optional Flat Hand Rail Adapter Plate
*CAT. NO. HBFP1

NEW!

CAT. NO.	GRADE	FINISH	1-1/2" & 1.66" C/L-"H"	1.9" & 2" C/L-"H"
HR5EPBS	316	Brushed Stainless	2-11/16" (68 mm)	2-15/16" (75 mm)
HR5EPPS	316	Polished Stainless	2-11/16" (68 mm)	2-15/16" (75 mm)

Minimum order: 1 each. All Railing Brackets can be combined for quantity pricing. *Specify finish at time of order.

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TOLL Phone: (800) 421-6144
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From Anywhere in the U.S. or Canada

CRL US ALUMINUM

CRL Manhattan Series Glass Mounted Hand Rail Brackets

- 2-Way Adjustable
- Five Architectural Finishes Plus Mill Finish Aluminum
- For 1-1/2", 1.9" or 2" (38, 48 or 51 mm) Diameter Hand Rail Tubing
- Designed for 1/2" to 1-1/16" (12 to 25.52 mm) Glass

2-7/8" (73 mm)

1/2" (13 mm)

H

NOTE: Requires 3/4" (19 mm) hole in glass

USE MONOLITHIC TEMPERED GLASS

or

USE LAMINATED TEMPERED GLASS

Two PRS1032TC Flat Head Phillips #10-32 x 3/4" Stainless Steel Thread Cutting Machine Screws Included
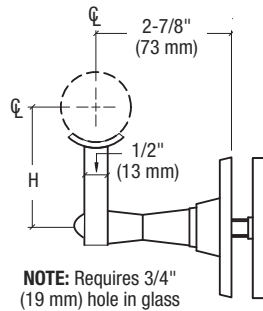
Optional Flat Hand Rail Adapter Plate
*CAT. NO. HBFP1
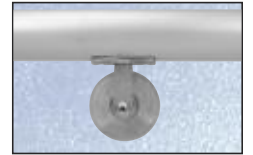
CAT. NO.	GRADE	FINISH	CAT. NO.	GRADE	FINISH	1-1/2" C/L-"H"	1.9" & 2" C/L-"H"
HR2SGMA	6063	Mill Aluminum	HR2SGBS	316	Brushed Stainless	2-9/16" (65 mm)	2-13/16" (71 mm)
HR2SGSA	6063	Satin Anodized	HR2SGPS	316	Polished Stainless	2-9/16" (65 mm)	2-13/16" (71 mm)
HR2SGDU	6063	Dark Bronze Anodized	HR2SGPB	C260	Polished Brass	2-9/16" (65 mm)	2-13/16" (71 mm)

Minimum order: 1 each. All Railing Brackets can be combined for quantity pricing.*Specify finish at time of order.

CRL Manhattan Series Wall Mounted Hand Rail Brackets

- 2-Way Adjustable
- Ready to Install
- Five Architectural Finishes Plus Mill Finish Aluminum
- For 1-1/2", 1.9" or 2" (38, 48 or 51 mm) Diameter Hand Rail Tubing

2-7/8" (73 mm)

3/8"-16 Bolt Thread

1/2" (13 mm)

H

3" (76 mm)

See page 371B for our Conversion Cap Set to Change a Wall Mount Bracket to a Glass Mount Bracket.

Two PRS1032TC Flat Head Phillips #10-32 x 3/4" Stainless Steel Thread Cutting Machine Screws Included

Optional Flat Hand Rail Adapter Plate
*CAT. NO. HBFP1

3/8"-16 x 2-1/2" Hanger Bolt Supplied.
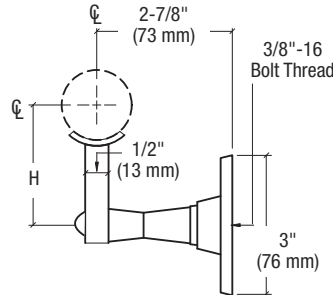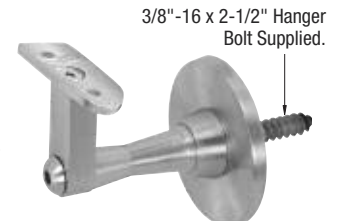
(See Pages 371B-372B for Replacement Screws)
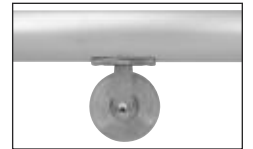
CAT. NO.	GRADE	FINISH	CAT. NO.	GRADE	FINISH	1-1/2" C/L-"H"	1.9" & 2" C/L-"H"
HR2SWMA	6063	Mill Aluminum	HR2SWBS	316	Brushed Stainless	2-9/16" (65 mm)	2-13/16" (71 mm)
HR2SWSA	6063	Satin Anodized	HR2SWPS	316	Polished Stainless	2-9/16" (65 mm)	2-13/16" (71 mm)
HR2SWDU	6063	Dark Bronze Anodized	HR2SWPB	C260	Polished Brass	2-9/16" (65 mm)	2-13/16" (71 mm)

Minimum order: 1 each. All Railing Brackets can be combined for quantity pricing. *Specify finish at time of order.

CRL Manhattan Series Post Mounted Hand Rail Brackets

- Ready to Mount to Either 1-1/4" or 1-1/2" (32 or 38 mm) Schedule 40 Vertical Posts
- Five Architectural Finishes Plus Mill Finish Aluminum
- For 1-1/2", 1.9" or 2" (38, 48 or 51 mm) Diameter Hand Rail Tubing

1-1/4" to 1-1/2" (32 to 38 mm)

2-7/8" (73 mm)

1/2" (13 mm)

H

Removable Coped Adapter for Flat Post Applications

Two PRS1032TC Flat Head Phillips #10-32 x 3/4" Stainless Steel Thread Cutting Machine Screws Included

Optional Flat Hand Rail Adapter Plate
*CAT. NO. HBFP1

3/8"-16 Threaded Bolt Supplied
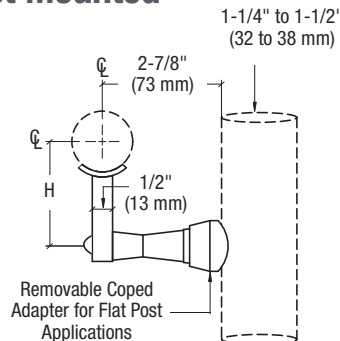
(See Pages 371B-372B for Replacement Screws)

CAT. NO.	GRADE	FINISH	CAT. NO.	GRADE	FINISH	1-1/2" C/L-"H"	1.9" & 2" C/L-"H"
HR2SPMA	6063	Mill Aluminum	HR2SPBS	316	Brushed Stainless	2-9/16" (65 mm)	2-13/16" (71 mm)
HR2SPSA	6063	Satin Anodized	HR2SPPS	316	Polished Stainless	2-9/16" (65 mm)	2-13/16" (71 mm)
HR2SPDU	6063	Dark Bronze Anodized	HR2SPPB	C260	Polished Brass	2-9/16" (65 mm)	2-13/16" (71 mm)

Minimum order: 1 each. All Railing Brackets can be combined for quantity pricing. *Specify finish at time of order.

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TOLL Phone: (800) 421-6144
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From Anywhere in the U.S. or Canada

CRL US ALUMINUM

CRL Malibu Series Glass Mounted Hand Rail Brackets

- Two Architectural Finishes Plus Mill Finish Aluminum
- For 1-1/2" to 2" (38 to 51 mm) Diameter Hand Rail Tubing
- Designed for 1/2" to 1-1/16" (12 to 25.52 mm) Glass
- Ready to Install

W

C/L

H

1/2" (13 mm)

3/4" (19 mm)

3/8"-16 Bolt Thread

2" (51 mm)

3/8" (10 mm)

NOTE: Requires 3/4" (19 mm) hole in glass

Two PRS1032TC Flat Head Phillips #10-32 x 3/4" Stainless Steel Thread Cutting Machine Screws Included

USE MONOLITHIC TEMPERED GLASS

or

USE LAMINATED TEMPERED GLASS

Optional Flat Hand Rail Adapter Plate
*CAT. NO. HBFP1

See Page 371B for Hand Rail Bracket Wrench
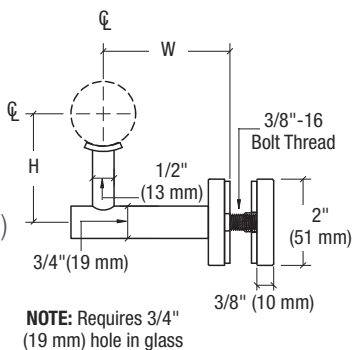
C/L-"W" 2-15/16" (75 MM) CAT. NO.	C/L-"W" 2-1/4" (57 MM) CAT. NO.	GRADE	FINISH	1-1/2" & 1.66" C/L-"H"	1.9" & 2" C/L-"H"
HR2EGBS	HR3EGBS	316	Brushed Stainless	2-1/2" (64 mm)	2-11/16" (68 mm)
HR2EGPS	HR3EGPS	316	Polished Stainless	2-1/2" (64 mm)	2-11/16" (68 mm)
HR2EGMA	HR3EGMA	6063	Mill Aluminum	2-1/2" (64 mm)	2-11/16" (68 mm)

Minimum order: 1 each. All Railing Brackets can be combined for quantity pricing. *Specify finish at time of order.

CRL Malibu Series Wall Mounted Hand Rail Brackets

NEW!

- Two Architectural Finishes Plus Mill Aluminum
- For 1-1/2" to 2" (38 to 51mm) Diameter Hand Rail Tubing
- Ready to Install
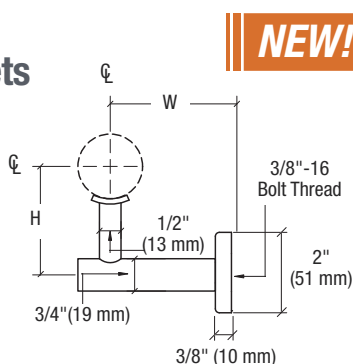
W

C/L

H

1/2" (13 mm)

3/4" (19 mm)

3/8"-16 Bolt Thread

2" (51 mm)

3/8" (10 mm)

Two PRS1032TC Flat Head Phillips #10-32 x 3/4" Stainless Steel Thread Cutting Machine Screws Included

Optional Flat Hand Rail Adapter Plate
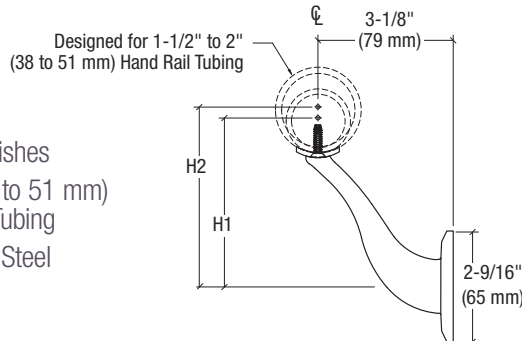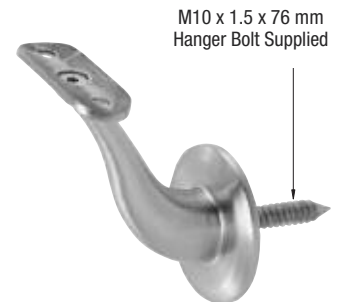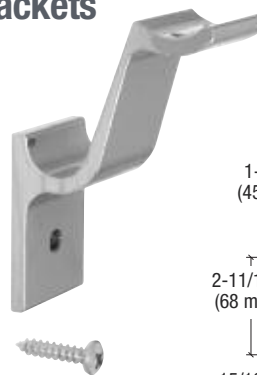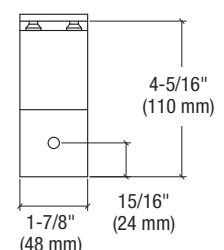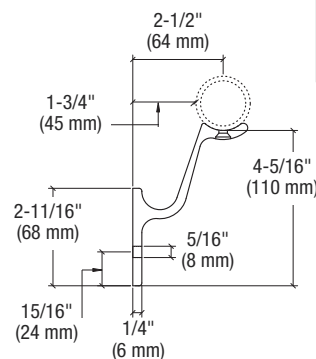***CAT. NO. HBFP1**

3/8"-16 x 2-1/2" Hanger Bolt Supplied
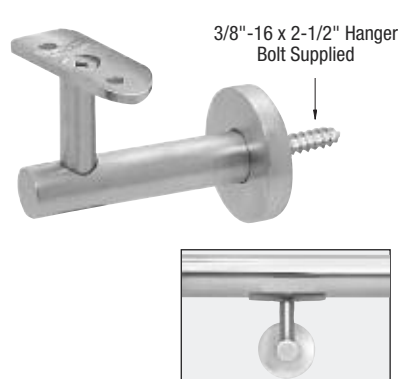
C/L-"W" 2-15/16" (75 MM) CAT. NO.	C/L-"W" 2-1/4" (57 MM) CAT. NO.	GRADE	FINISH	1-1/2" & 1.66" C/L-"H"	1.9" & 2" C/L-"H"
HR2EWBS	HR3EWBS	316	Brushed Stainless	2-1/2" (64 mm)	2-11/16" (68 mm)
HR2EWPS	HR3EWPS	316	Polished Stainless	2-1/2" (64 mm)	2-11/16" (68 mm)
HR2EWMA	HR3EWMA	6063	Mill Aluminum	2-1/2" (64 mm)	2-11/16" (68 mm)

Minimum order: 1 each. All Railing Brackets can be combined for quantity pricing. *Specify finish at time of order.

CRL Malibu Series Post Mounted Hand Rail Brackets

- Two Architectural Finishes Plus Mill Finish Aluminum
- For 1-1/2" to 2" (38 to 51 mm) Diameter Hand Rail Tubing
- Ready to Mount to 1-1/4" or 1-1/2" (32 or 38 mm) Schedule 40 Vertical Posts
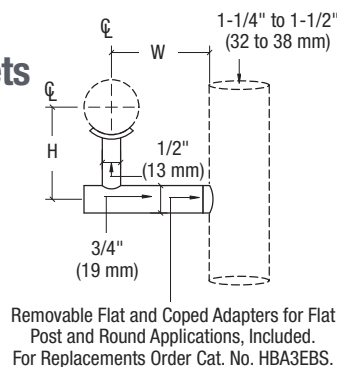
W

C/L

H

1/2" (13 mm)

3/4" (19 mm)

1-1/4" to 1-1/2" (32 to 38 mm)

Removable Flat and Coped Adapters for Flat Post and Round Applications, Included. For Replacements Order Cat. No. HBA3EBS.

Two PRS1032TC Flat Head Phillips #10-32 x 3/4" Stainless Steel Thread Cutting Machine Screws Included

Optional Flat Hand Rail Adapter Plate
*CAT. NO. HBFP1

3/8"-16 Bolt Thread Supplied
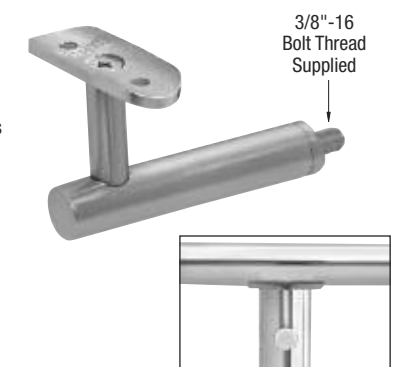
C/L-"W" 2-11/16" (68 MM) CAT. NO.	C/L-"W" 2-1/4" (57 MM) CAT. NO.	GRADE	FINISH	1-1/2" & 1.66" C/L-"H"	1.9" & 2" C/L-"H"
HR2EPBS	HR3EPBS	316	Brushed Stainless	2-1/2" (64 mm)	2-11/16" (68 mm)
HR2EPPS	HR3EPPS	316	Polished Stainless	2-1/2" (64 mm)	2-11/16" (68 mm)
HR2EPMA	HR3EPMA	6063	Mill Aluminum	2-1/2" (64 mm)	2-11/16" (68 mm)

Minimum order: 1 each. All Railing Brackets can be combined for quantity pricing. *Specify finish at time of order.

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TOLL Phone: (800) 421-6144
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CRL US ALUMINUM

CRL Sunset Series Glass Mounted Hand Rail Brackets

- 3-Way Adjustable
- Ready to Install
- Two Architectural Finishes
- For 1-1/2", 1.9" or 2" (38, 48 or 51 mm) Diameter Hand Rail Tubing
- Designed for 1/2" to 1-1/16" (12 to 25.52 mm) Glass

3-3/16" (81 mm)

H

9/16" (14 mm)

3/8" - 16 Bolt Thread

2" (51 mm)

1" (25 mm)
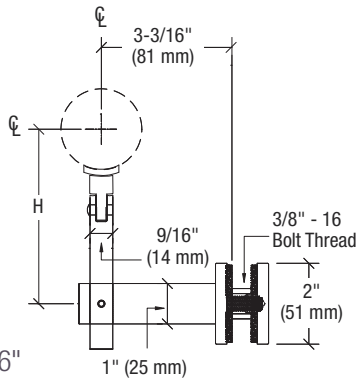
(See Pages 371B-372B for Replacement Screws)

Two PRS1032TC Flat Head Phillips #10-32 x 3/4" Stainless Steel Thread Cutting Machine Screws Included

Optional Flat Hand Rail Adapter Plate

*CAT. NO. HBFP1

- 316 Grade Stainless Steel

NOTE: Requires 3/4" (19 mm) hole in glass

See Page 371B for Hand Rail Bracket Wrench

USE MONOLITHIC TEMPERED GLASS   or   USE LAMINATED TEMPERED GLASS

CAT. NO.	GRADE	FINISH	1-1/2" C/L-"H"	1.9" & 2" C/L-"H"
HR2JGBS	316	Brushed Stainless	1-9/16" to 3-1/4" (40 to 82 mm)	1-3/4" to 3-7/16" (44 to 87 mm)
HR2JGPS	316	Polished Stainless	1-9/16" to 3-1/4" (40 to 82 mm)	1-3/4" to 3-7/16" (44 to 87 mm)

Minimum order: 1 each. All Railing Brackets can be combined for quantity pricing. *Specify finish at time of order.

CRL Sunset Series Wall Mounted Hand Rail Brackets

- 3-Way Adjustable
- Ready to Install
- Two Architectural Finishes
- For 1-1/2", 1.9" or 2" (38, 48 or 51 mm) Diameter Hand Rail Tubing

3-1/8" (80 mm)

H

Drilled and Tapped for 3/8" - 16 Thread Rod

9/16" (14 mm)

2" (51 mm)

1" (25 mm)

Two PRS1032TC Flat Head Phillips #10-32 x 3/4" Stainless Steel Thread Cutting Machine Screws Included

Optional Flat Hand Rail Adapter Plate

*CAT. NO. HBFP1

- 316 Grade Stainless Steel

3/8"-16 x 2-1/2" Hanger Bolt Supplied
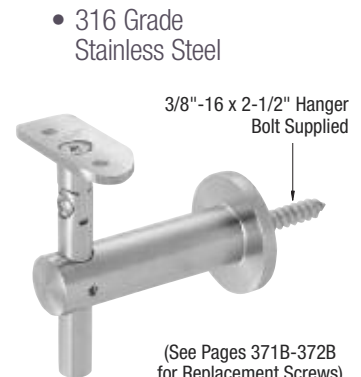
(See Pages 371B-372B for Replacement Screws)

CAT. NO.	GRADE	FINISH	1-1/2" C/L-"H"	1.9" & 2" C/L-"H"
HR2JWBS	316	Brushed Stainless	1-9/16" to 3-1/4" (40 to 82 mm)	1-3/4" to 3-7/16" (44 to 87 mm)
HR2JWPS	316	Polished Stainless	1-9/16" to 3-1/4" (40 to 82 mm)	1-3/4" to 3-7/16" (44 to 87 mm)

Minimum order: 1 each. All Railing Brackets can be combined for quantity pricing. *Specify finish at time of order.

CRL Sunset Series Post Mounted Hand Rail Brackets

- 3-Way Adjustable
- Ready to Install
- Two Architectural Finishes
- For 1-1/2", 1.9" or 2" (38, 48 or 51 mm) Diameter Hand Rail Tubing
- Can Also Be Mounted to Flat Surfaces

3-1/16" (78 mm)

H

9/16" (14 mm)

1" (25 mm)
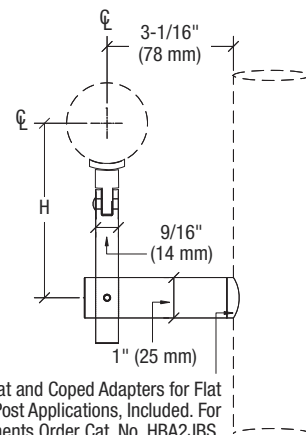
Removable Flat and Coped Adapters for Flat and Round Post Applications, Included. For Replacements Order Cat. No. HBA2JBS.

Two PRS1032TC Flat Head Phillips #10-32 x 3/4" Stainless Steel Thread Cutting Machine Screws Included

Optional Flat Hand Rail Adapter Plate

*CAT. NO. HBFP1

- 316 Grade Stainless Steel

CAT. NO.	GRADE	FINISH	1-1/2" C/L-"H"	1.9" & 2" C/L-"H"
HR2JPBS	316	Brushed Stainless	1-9/16" to 3-1/4" (40 to 82 mm)	1-3/4" to 3-7/16" (44 to 87 mm)
HR2JPPS	316	Polished Stainless	1-9/16" to 3-1/4" (40 to 82 mm)	1-3/4" to 3-7/16" (44 to 87 mm)

Minimum order: 1 each. All Railing Brackets can be combined for quantity pricing. *Specify finish at time of order.

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CRL US ALUMINUM

CRL Coastal Series Glass Mounted Hand Rail Brackets

- 2-Way Adjustable
- Ready to Install
- Two Architectural Finishes Plus Mill Finish Aluminum
- For 1-1/2" to 2" (38 to 51 mm) Diameter Hand Rail Tubing
- Designed for 1/2" to 1-1/16" (12 to 25.52 mm) Glass

Designed for 1-1/2" to 2" (38 to 51 mm) Hand Rail Tubing

2-15/16" (75 mm)

3/4" (19 mm)

1/2" (13 mm)

NOTE: Requires 3/4" (19 mm) hole in glass

USE MONOLITHIC TEMPERED GLASS

or

USE LAMINATED TEMPERED GLASS

Threaded for 5/16"-18 Bolt (Bolt Included)
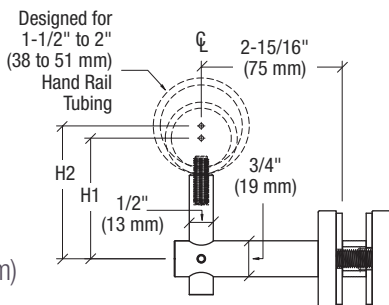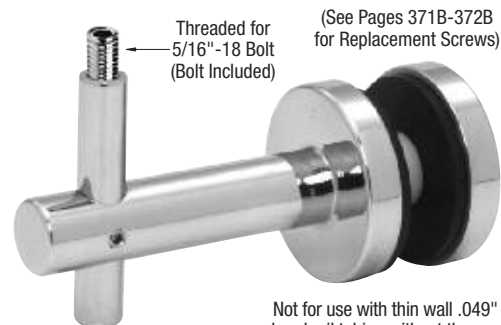
(See Pages 371B-372B for Replacement Screws)

- 316 Grade Stainless Steel

Not for use with thin wall .049" hand rail tubing without the use of CRL's Riv-Nut system. Heavy wall tubing is recommended for this bracket.

CAT. NO.	GRADE	FINISH	1-1/2" & 1.66" C/L-"H1"	1.9" & 2" C/L-"H2"
HR2FGBS	316	Brushed Stainless	2-1/2" (64 mm)	2-11/16" (68 mm)
HR2FGPS	316	Polished Stainless	2-1/2" (64 mm)	2-11/16" (68 mm)
HR2FGMA	6063	Mill Aluminum	2-1/2" (64 mm)	2-11/16" (68 mm)

Minimum order: 1 each. All Railing Brackets can be combined for quantity pricing.

CRL Coastal Series Wall Mounted Hand Rail Brackets

- 2-Way Adjustable
- Ready to Install
- Two Architectural Finishes Plus Mill Finish Aluminum
- For 1-1/2" to 2" (38 to 51 mm) Diameter Hand Rail Tubing

Designed for 1-1/2" to 2" (38 to 51 mm) Hand Rail Tubing

2-13/16" (71 mm)

3/4" (19 mm)

1/2" (13 mm)
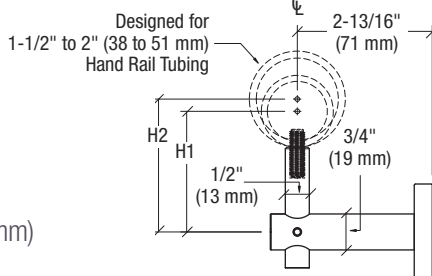
Threaded for 5/16"-18 Bolt (Bolt Included)

(See Pages 371B-372B for Replacement Screws)

3/8"-16 x 2-1/2" Hanger Bolt Supplied
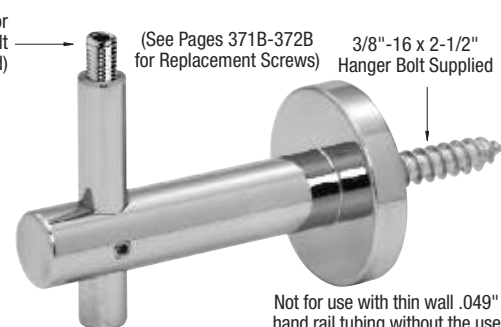
- 316 Grade Stainless Steel

Not for use with thin wall .049" hand rail tubing without the use of CRL's Riv-Nut system. Heavy wall tubing is recommended for this bracket.

CAT. NO.	GRADE	FINISH	1-1/2" & 1.66" C/L-"H1"	1.9" & 2" C/L-"H2"
HR2FWBS	316	Brushed Stainless	2-1/2" (64 mm)	2-11/16" (68 mm)
HR2FWPS	316	Polished Stainless	2-1/2" (64 mm)	2-11/16" (68 mm)
HR2FWMA	6063	Mill Aluminum	2-1/2" (64 mm)	2-11/16" (68 mm)

Minimum order: 1 each. All Railing Brackets can be combined for quantity pricing.

CRL Coastal Series Post Mounted Hand Rail Brackets

- 2-Way Adjustable
- Ready to Install
- Two Architectural Finishes Plus Mill Finish Aluminum
- For 1-1/2" to 2" (38 to 51 mm) Diameter Hand Rail Tubing

Designed for 1-1/2" to 2" (38 to 51 mm) Hand Rail Tubing

2-11/16" (68 mm)

3/4" (19 mm)

1/2" (13 mm)
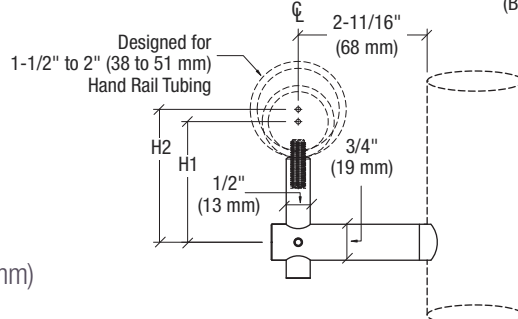
Threaded for 5/16"-18 Bolt (Bolt Included)

(See Pages 371B-372B for Replacement Screws)

3/8"-16 Threaded Bolt (Bolt Included)
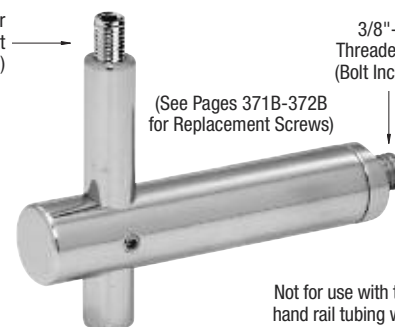
- 316 Grade Stainless Steel

Not for use with thin wall .049" hand rail tubing without the use of CRL's Riv-Nut system. Heavy wall tubing is recommended for this bracket.

CAT. NO.	GRADE	FINISH	1-1/2" & 1.66" C/L-"H1"	1.9" & 2" C/L-"H2"
HR2FPBS	316	Brushed Stainless	2-1/2" (64 mm)	2-11/16" (68 mm)
HR2FPPS	316	Polished Stainless	2-1/2" (64 mm)	2-11/16" (68 mm)
HR2FPMA	6063	Mill Aluminum	2-1/2" (64 mm)	2-11/16" (68 mm)

Minimum order: 1 each. All Railing Brackets can be combined for quantity pricing.

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CRL US ALUMINUM

CRL Newport Series Glass Mounted Hand Rail Brackets

- Ready to Install
- Five Architectural Finishes Plus Mill Finish Aluminum
- For 1-1/2" to 2" (38 to 51 mm) Diameter Hand Rail Tubing
- Designed for 1/2" (12 mm) Glass

3" to 3-5/16" (76 to 84 mm)

3/8"-16 Bolt Thread

5/8" (16 mm)

3" (76 mm)

H

NOTE: Requires 3/4" (19 mm) hole in glass

USE MONOLITHIC TEMPERED GLASS

Two PRS1032TC Flat Head Phillips #10-32 x 3/4" Stainless Steel Thread Cutting Machine Screws Included

Optional Flat Hand Rail Adapter Plate
*CAT. NO. HBFP1

(See Pages 371B-372B for Replacement Screws)

CAT. NO.	GRADE	FINISH	CAT. NO.	GRADE	FINISH	1-1/2" & 1.66" C/L-"H"	1.9" & 2" C/L-"H"
HR2DGMA	6063	Mill Aluminum	HR2DGBS	316	Brushed Stainless	3" (76 mm)	3-1/4" (83 mm)
HR2DGSA	6063	Satin Anodized	HR2DGPS	316	Polished Stainless	3" (76 mm)	3-1/4" (83 mm)
HR2DGDU	6063	Dark Bronze Anodized	HR2DGPB	C260	Polished Brass	3" (76 mm)	3-1/4" (83 mm)

Minimum order: 1 each. All Railing Brackets can be combined for quantity pricing. *Specify finish at time of order.

CRL Newport Series Wall Mounted Hand Rail Brackets

- 3-Way Adjustable
- Ready to Install
- Five Architectural Finishes Plus Mill Finish Aluminum
- For 1-1/2" to 2" (38 to 51 mm) Diameter Hand Rail Tubing

3 to 3-5/16" (76 to 84 mm)

3/8"-16 Bolt Thread

5/8" (16 mm)

3" (76 mm)

H

See Page 371B for our Conversion Cap Set to Change a Wall Mount Bracket to a Glass Mount Bracket.

Two PRS1032TC Flat Head Phillips #10-32 x 3/4" Stainless Steel Thread Cutting Machine Screws Included

Optional Flat Hand Rail Adapter Plate
*CAT. NO. HBFP1
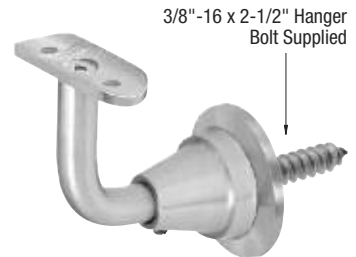
3/8"-16 x 2-1/2" Hanger Bolt Supplied

(See Pages 371B-372B for Replacement Screws)

CAT. NO.	GRADE	FINISH	CAT. NO.	GRADE	FINISH	1-1/2" & 1.66" C/L-"H"	1.9" & 2" C/L-"H"
HR2DWMA	6063	Mill Aluminum	HR2DWBS	316	Brushed Stainless	3" (76 mm)	3-1/4" (83 mm)
HR2DWSA	6063	Satin Anodized	HR2DWPS	316	Polished Stainless	3" (76 mm)	3-1/4" (83 mm)
HR2DWDU	6063	Dark Bronze Anodized	HR2DWPB	C260	Polished Brass	3" (76 mm)	3-1/4" (83 mm)

Minimum order: 1 each. All Railing Brackets can be combined for quantity pricing. *Specify finish at time of order.

CRL Newport Series Extension Arms for HR2D Series Brackets

- Allows for Up to 2" (51 mm) of Additional Extension From Mounting Surface
- Five Architectural Finishes Available

Front View

5" to 5-5/16" (127 to 135 mm) Projection

2" (51 mm)

3" to 3-5/16" (76 to 84 mm)

1/2" (13 mm)

5/8" (16 mm)

With Extension

Standard Bracket
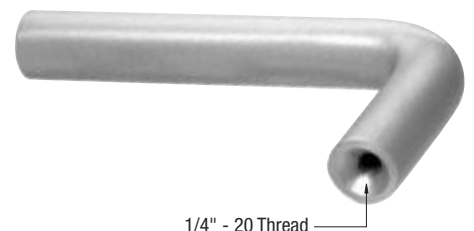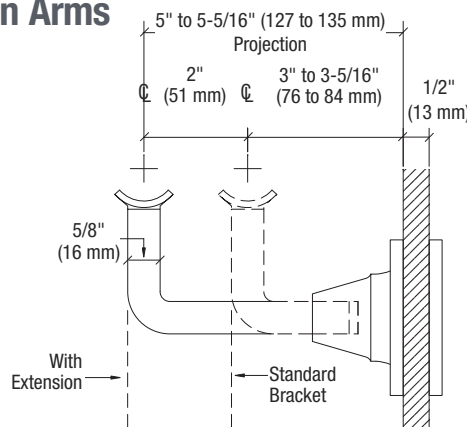
1/4" - 20 Thread

CAT. NO.	GRADE	FINISH
HR2DXSA	6063	Satin Anodized
HR2DXDU	6063	Dark Bronze Anodized
HR2DXBS	316	Brushed Stainless
HR2DXPS	316	Polished Stainless
HR2DXPB	C260	Polished Brass

Minimum order: 1 each. Finishes can be combined for quantity pricing.

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CRL US ALUMINUM

CRL La Jolla Series Glass Mounted Hand Rail Brackets

- 2-Way Adjustable
- Three Architectural Finishes
- For 1-1/2" to 2" (38 to 51 mm) Diameter Hand Rail Tubing
- Designed for 1/2" to 3/4" (12 to 19 mm) Glass

2-15/16" (75 mm)

5/16"-18 Bolt Thread

7/16" (11 mm)

2-3/8" (60 mm)

Two PRS1032TC Flat Head Phillips #10-32 x 3/4" Stainless Steel Thread Cutting Machine Screws Included

USE MONOLITHIC TEMPERED GLASS
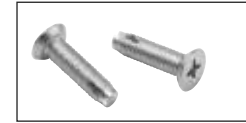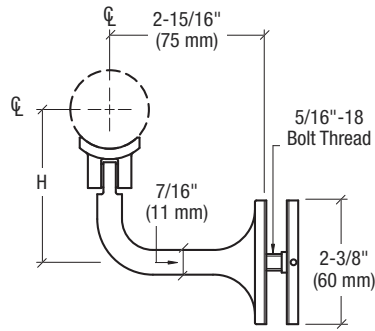
NOTE: Requires 3/4" (19 mm) hole in glass

(See Pages 371B-372B for Replacement Screws)

FOR 1-1/2" & 1.66" (38 & 42 MM) DIAMETER HAND RAIL TUBING

CAT. NO.	GRADE	FINISH	C/L-"H"
HR15GABS	316	Brushed Stainless	2-15/16" (75 mm)
HR15GAPS	316	Polished Stainless	2-15/16" (75 mm)
HR15GAPB	C260	Polished Brass	2-15/16" (75 mm)

FOR 1.9" & 2" (48 & 51 MM) DIAMETER HAND RAIL TUBING

CAT. NO.	GRADE	FINISH	C/L-"H"
HR20GABS	316	Brushed Stainless	3-1/4" (83 mm)
HR20GAPS	316	Polished Stainless	3-1/4" (83 mm)
HR20GAPB	C260	Polished Brass	3-1/4" (83 mm)

Minimum order: 1 each. All Railing Brackets can be combined for quantity pricing. A Hanger Bolt is also included to convert to wall mounting.

CRL La Jolla Series Wall Mounted Hand Rail Brackets

- 2-Way Adjustable
- Ready to Install
- Three Architectural Finishes
- For 1-1/2" to 2" (38 to 51 mm) Diameter Hand Rail Tubing

2-15/16" (75 mm)

5/16"-18 Bolt Thread

7/16" (11 mm)

2-3/8" (60 mm)

Two PRS1032TC Flat Head Phillips #10-32 x 3/4" Stainless Steel Thread Cutting Machine Screws Included

5/16"-18 x 2-1/2" Hanger Bolt Supplied
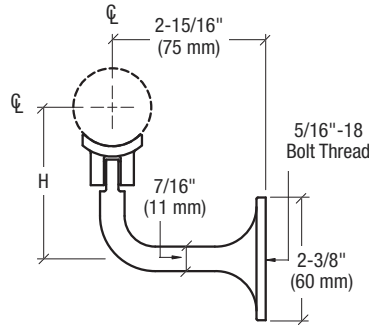
(See Pages 371B-372B for Replacement Screws)

FOR 1-1/2" & 1.66" (38 & 42 MM) DIAMETER HAND RAIL TUBING

CAT. NO.	GRADE	FINISH	C/L-"H"
HR15WABS	316	Brushed Stainless	2-15/16" (75 mm)
HR15WAPS	316	Polished Stainless	2-15/16" (75 mm)
HR15WAPB	C260	Polished Brass	2-15/16" (75 mm)

FOR 1.9" & 2" (48 & 51 MM) DIAMETER HAND RAIL TUBING

CAT. NO.	GRADE	FINISH	C/L-"H"
HR20WABS	316	Brushed Stainless	3-1/4" (83 mm)
HR20WAPS	316	Polished Stainless	3-1/4" (83 mm)
HR20WAPB	C260	Polished Brass	3-1/4" (83 mm)

Minimum order: 1 each. All Railing Brackets can be combined for quantity pricing.

CRL Pismo Series Glass Mounted Hand Rail Brackets

- Three Architectural Finishes
- For 1-1/2" to 2" (38 to 51 mm) Diameter Hand Rail Tubing
- Designed for 1/2" to 3/4" (12 to 19 mm) Glass

2-15/16" (75 mm)

5/16"-18 Bolt Thread

7/16" (11 mm)

2-3/8" (60 mm)

Two PRS1032TC Flat Head Phillips #10-32 x 3/4" Stainless Steel Thread Cutting Machine Screws Included

USE MONOLITHIC TEMPERED GLASS
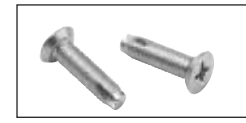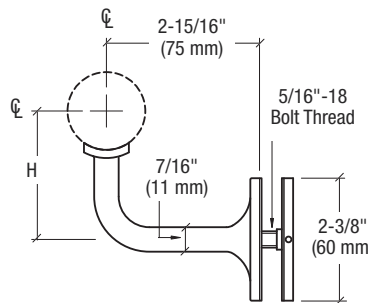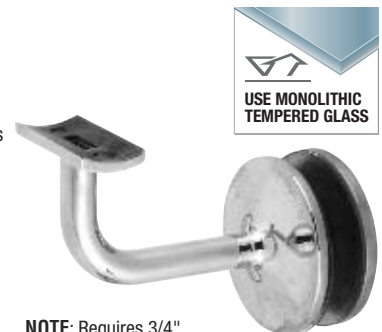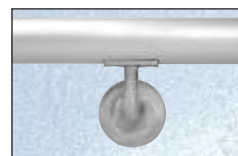
NOTE: Requires 3/4" (19 mm) hole in glass

(See Pages 371B-372B for Replacement Screws)

FOR 1-1/2" & 1.66" (38 & 42 MM) DIAMETER HAND RAIL TUBING

CAT. NO.	GRADE	FINISH	C/L-"H"
HR15GBS	316	Brushed Stainless	2-1/2" (64 mm)
HR15GPS	316	Polished Stainless	2-1/2" (64 mm)
HR15GPB	C260	Polished Brass	2-1/2" (64 mm)

FOR 1.9" & 2" (48 & 51 MM) DIAMETER HAND RAIL TUBING

CAT. NO.	GRADE	FINISH	C/L-"H"
HR20GBS	316	Brushed Stainless	2-3/4" (70 mm)
HR20GPS	316	Polished Stainless	2-3/4" (70 mm)
HR20GPB	C260	Polished Brass	2-3/4" (70 mm)

Minimum order: 1 each. All Railing Brackets can be combined for quantity pricing. A Hanger Bolt is also included to convert to wall mounting.

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CRL US ALUMINUM

CRL Pismo Series Wall Mounted Hand Rail Brackets

- Ready to Install
- Three Architectural Finishes
- For 1-1/2" to 2" (38 to 51 mm) Diameter Hand Rail Tubing

2-15/16" (75 mm)

5/16"-18 Bolt Thread

1/2" (13 mm)

2-3/8" (60 mm)

H
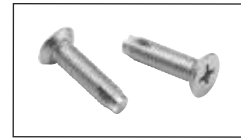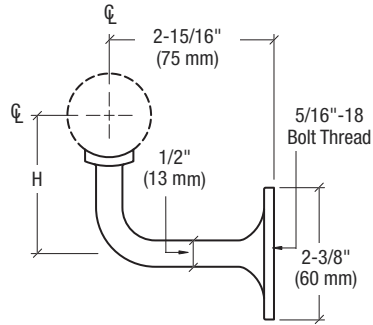
Two PRS1032TC Flat Head Phillips #10-32 x 3/4" Stainless Steel Thread Cutting Machine Screws Included

5/16"-18 x 2-1/2" Hanger Bolt Supplied. See Page 372B for Additional Mounting Hardware

(See Pages 371B-372B for Replacement Screws)

FOR 1-1/2" & 1.66" (38 & 42 MM) DIAMETER HAND RAIL TUBING

CAT. NO.	GRADE	FINISH	C/L-"H"
HR15B4BS	316	Brushed Stainless	2-1/2" (64 mm)
HR15B4PS	316	Polished Stainless	2-1/2" (64 mm)
HR15B4PB	C260	Polished Brass	2-1/2" (64 mm)

Minimum order: 1 each. All Railing Brackets can be combined for quantity pricing.

FOR 1.9" & 2" (48 & 51 MM) DIAMETER HAND RAIL TUBING

CAT. NO.	GRADE	FINISH	C/L-"H"
HR20B4BS	316	Brushed Stainless	2-3/4" (70 mm)
HR20B4PS	316	Polished Stainless	2-3/4" (70 mm)
HR20B4PB	C260	Polished Brass	2-3/4" (70 mm)

CRL Del Mar Series Wall Mounted Short Arm Hand Rail Brackets

- Ready to Install
- Three Architectural Finishes
- For 1-1/2" to 2" (38 to 51 mm) Diameter Hand Rail Tubing

2-7/16" (62 mm)

1/2" (13 mm)

2-7/16" (62 mm)

H
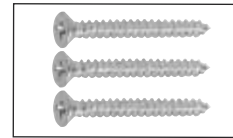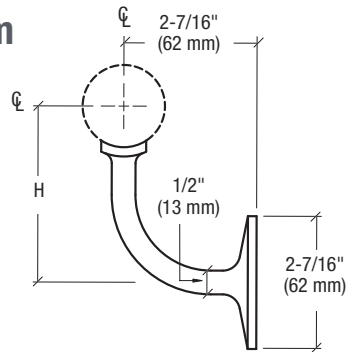
Supplied with Three #12 x 2" Wood Screws
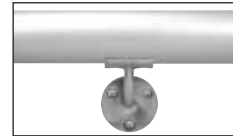
Two PRS1032TC Flat Head Phillips #10-32 x 3/4" Stainless Steel Thread Cutting Machine Screws Included

(See Pages 371B-372B for Replacement Screws)

FOR 1-1/2" & 1.66" (38 & 42 MM) DIAMETER HAND RAIL TUBING

CAT. NO.	GRADE	FINISH	C/L-"H"
HR15TBS	316	Brushed Stainless	3-3/16" (81 mm)
HR15TPS	316	Polished Stainless	3-3/16" (81 mm)
HR15TPB	C260	Polished Brass	3-3/16" (81 mm)

Minimum order: 1 each. All Railing Brackets can be combined for quantity pricing.

FOR 1.9" & 2" (48 & 51 MM) DIAMETER HAND RAIL TUBING

CAT. NO.	GRADE	FINISH	C/L-"H"
HR20TBS	316	Brushed Stainless	3-7/16" (87 mm)
HR20TPS	316	Polished Stainless	3-7/16" (87 mm)
HR20TPB	C260	Polished Brass	3-7/16" (87 mm)

CRL Del Mar Series Wall Mounted Long Arm Hand Rail Brackets

- Ready to Install
- Three Architectural Finishes
- For 1-1/2" to 2" (38 to 51 mm) Diameter Hand Rail Tubing

2-5/8" (66 mm)

1/2" (13 mm)

2-5/16" (59 mm)

H
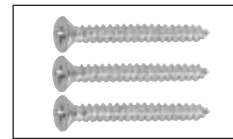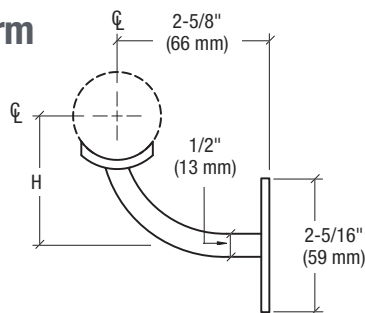
Supplied with Three #12 x 2" Wood Screws
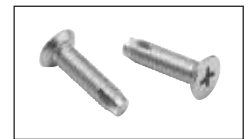
Two PRS1032TC Flat Head Phillips #10-32 x 3/4" Stainless Steel Thread Cutting Machine Screws Included

(See Pages 371B-372B for Replacement Screws)

FOR 1-1/2" & 1.66" (38 & 42 MM) DIAMETER HAND RAIL TUBING

CAT. NO.	GRADE	FINISH	C/L-"H"
HR15B3BS	316	Brushed Stainless	2-3/16" (56 mm)
HR15B3PS	316	Polished Stainless	2-3/16" (56 mm)
HR15B3PB	C260	Polished Brass	2-3/16" (56 mm)

Minimum order: 1 each. All Railing Brackets can be combined for quantity pricing.

FOR 1.9" & 2" (48 & 51 MM) DIAMETER HAND RAIL TUBING

CAT. NO.	GRADE	FINISH	C/L-"H"
HR20B3BS	316	Brushed Stainless	2-7/16" (62 mm)
HR20B3PS	316	Polished Stainless	2-7/16" (62 mm)
HR20B3PB	C260	Polished Brass	2-7/16" (62 mm)

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CRL US ALUMINUM

CRL Meridian Series Glass Mounted Hand Rail Brackets

- Ready to Install
- Two Architectural Finishes
- For 1-1/2" to 2" (38 to 51 mm) Diameter Hand Rail Tubing
- Designed for 1/2" to 1-1/16" (12 to 25.52 mm) Glass
- 316 Grade Stainless Steel
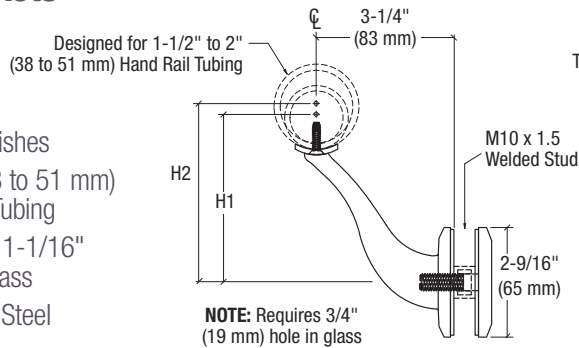
Designed for 1-1/2" to 2" (38 to 51 mm) Hand Rail Tubing

3-1/4" (83 mm)

H2
H1

M10 x 1.5 Welded Stud

2-9/16" (65 mm)

NOTE: Requires 3/4" (19 mm) hole in glass

Two PRS1032TC Flat Head Phillips #10-32 x 3/4" Stainless Steel Thread Cutting Machine Screws Included

Optional Flat Hand Rail Adapter Plate
*CAT. NO. HBFP1

USE MONOLITHIC TEMPERED GLASS or **USE LAMINATED TEMPERED GLASS**

CAT. NO.	GRADE	FINISH	1-1/2" & 1.66" C/L-"H1"	1.9" & 2" C/L-"H2"
HR4GBS	316	Brushed Stainless	3-7/8" (98 mm)	4-1/8" (105 mm)
HR4GPS	316	Polished Stainless	3-7/8" (98 mm)	4-1/8" (105 mm)

Minimum order: 1 each. All Railing Brackets can be combined for quantity pricing. *Specify finish at time of order.
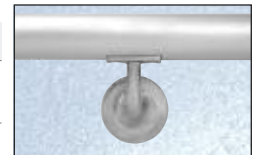
CRL Meridian Series Wall Mounted Hand Rail Brackets

- Ready to Install
- Two Architectural Finishes
- For 1-1/2" to 2" (38 to 51 mm) Diameter Hand Rail Tubing
- 316 Grade Stainless Steel

Designed for 1-1/2" to 2" (38 to 51 mm) Hand Rail Tubing

3-1/8" (79 mm)

H2
H1

2-9/16" (65 mm)

Two PRS1032TC Flat Head Phillips #10-32 x 3/4" Stainless Steel Thread Cutting Machine Screws Included

Optional Flat Hand Rail Adapter Plate
*CAT. NO. HBFP1

M10 x 1.5 x 76 mm Hanger Bolt Supplied

CAT. NO.	GRADE	FINISH	1-1/2" & 1.66" C/L-"H1"	1.9" & 2" C/L-"H2"
HR4WBS	316	Brushed Stainless	3-7/8" (98 mm)	4-1/8" (105 mm)
HR4WPS	316	Polished Stainless	3-7/8" (98 mm)	4-1/8" (105 mm)

Minimum order: 1 each. All Railing Brackets can be combined for quantity pricing. *Specify finish at time of order.

CRL Quick Connect Aluminum Hand Rail Brackets

- Seven Standard Powder Coated Finishes, Plus Mill Aluminum
- For 1-1/2" (38 mm) Hand Rail Tubing
- 6005 Alloy Pre-Treated Aluminum/T5 Temper
- Ready to Install

CAT. NO.	COLOR
ARHB1W	Sky White
ARHB10W	Oyster White
ARHB1AGY	Agate Gray
ARHB1BGY	Beige Gray
ARHB1BL	Matte Black
ARHB1BRZ	Matte Bronze
ARHB1S	Silver Metallic
ARHB1CRM	Mill Aluminum

Minimum order: 1 each. All Railing Brackets can be combined for quantity pricing.

CRL US ALUMINUM
MANUFACTURED IN THE USA

One #14 x 3/4" (19 mm) Stainless Steel Self-Drilling Screw Included

2-1/2" (64 mm)
1-3/4" (45 mm)
4-5/16" (110 mm)
2-11/16" (68 mm)
5/16" (8 mm)
15/16" (24 mm)
1/4" (6 mm)
4-5/16" (110 mm)
1-7/8" (48 mm)
15/16" (24 mm)

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CRL US ALUMINUM

CRL Conversion Cap Set HR2D or HR2S for Newport Series Hand Rail Brackets

- Converts Any HR2D or HR2S Series Wall Mount Bracket to Glass Mount
- For Use on 1/2" (12 mm) Tempered Glass
- Four Architectural Finishes Plus Mill Aluminum

Front View

Back View

NOTE: Requires 3/4" (19 mm) hole in glass.

Each pack contains one each Cap, one each 3/8"-16 x 1-1/4" (32 mm) Allen Screw, two 2-7/8" (73 mm) Rubber Gaskets, and one each 3/4" (19 mm) Plastic Grommet.

CAT. NO.	GRADE	FINISH
HR2CKMA	6063	Mill Aluminum
HR2CKSA	6063	Satin Anodized
HR2CKDU	6063	Duranodic Bronze
HR2CKBS	316	Brushed Stainless
HR2CKPS	316	Polished Stainless

Minimum order: 1 each.

CRL Replacement Gaskets and Grommet Packs for Hand Rail Brackets

HR15G, HR15GA, HR20G, and HR20GA Series
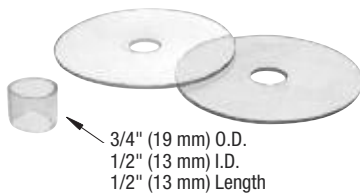
3/4" (19 mm) O.D.
1/2" (13 mm) I.D.
1/2" (13 mm) Length

Each CRL Replacement Gasket and Grommet Pack includes two each 2-5/16" (59 mm) diameter Rubber Gaskets and one each Plastic Grommet. Minimum order is one pack.

CAT. NO. RGGP1

HR2DG, HR2EG, HR2FG, HR2JG, HR2SG, HR3EG, and HR4G Series

3/4" (19 mm) O.D.
1/2" (13 mm) I.D.
1/2" (13 mm) Length

Each CRL Replacement Gasket and Grommet Pack includes two each 2-7/8" (73 mm) diameter Rubber Gaskets and one each Plastic Grommet. Minimum order is one pack.

CAT. NO. RGGP2

HR5EG, HR5EW, and HR5EP Series
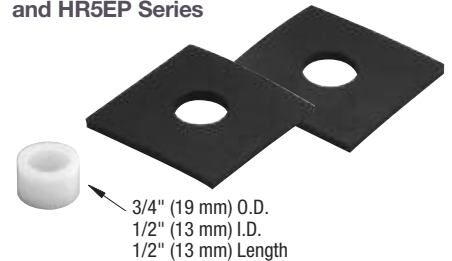
3/4" (19 mm) O.D.
1/2" (13 mm) I.D.
1/2" (13 mm) Length

Each CRL Replacement Gasket and Grommet Pack includes two each 1-7/8" (48 mm) square Rubber Gaskets and one each Plastic Grommet. Minimum order is one pack.

CAT. NO. RGGP5

CRL Replacement Screw Packs for Hand Rail Brackets

RSP1 PACK
Each pack contains two each #10-32 x 3/4" (19 mm) Flat Head Phillips Thread Cutting Machine Screws and one each 3/8"-16 x 3" (76 mm) Hanger Bolt. For Bracket Series: HR5EW, HR2JW, HR2FW, HR2SW, HR2DW

RSP3 PACK
Each pack contains two each #10-32 x 3/4" (19 mm) Flat Head Phillips Thread Cutting Machine Screws and one each 5/16" -18 x 2-1/2" (64 mm) Hanger Bolt. For Bracket Series: HR15B4, HR20B4, HR15WA, HR20WA

RSP5 PACK
Each pack contains two each #10-32 x 3/4" (19 mm) Flat Head Phillips Thread Cutting Machine Screws and three each 12 x 2" (51 mm) Phillips Flat Head Screws. For Bracket Series: HR15T, HR20T, HR15B3, HR20B3

BRUSHED STAINLESS CAT. NO.	POLISHED STAINLESS CAT. NO.	BRASS PLATED CAT. NO.	SATIN ANODIZED CAT. NO.	DARK BRONZE CAT. NO.
RSP1BS	RSP1PS	RSP1PB	RSP1SA	RSP1DU
RSP3BS	RSP3PS	RSP3PB	----------	----------
RSP5BS	----------	RSP5PB	----------	----------

Minimum order: 1 pack.

CRL Hand Rail Bracket Spanner Wrench

NEW!

- Easily Tightens Glass Mount Hand Rail Brackets
- For Use on 2", 2-3/8", 2-1/2", and 3" (51, 60, 64, and 76 mm) Diameter Brackets

CAT. NO. SWHR1
Minimum order: 1 each.

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TOLL Phone: (800) 421-6144
FREE Fax: (800) 262-3299
From Anywhere in the U.S. or Canada

CRL US ALUMINUM

CRL Stainless Steel Concrete Anchors

• For Use With HRS Hand Rail Brackets

CAT. NO.	THREAD SIZE	LENGTH
CA3817	5/16"-18	1-7/8" (48 mm)
CA1222	3/8"-16	2-1/4" (57 mm)

Minimum order: 1 each. Sizes can be combined for quantity pricing.
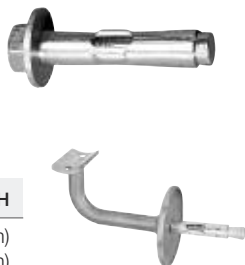
CRL Stainless Steel Hanger Bolts

• For Use With HRS Hand Rail Brackets

CAT. NO.	THREAD SIZE	LENGTH
HB516212S	5/16"-18	2-1/2" (64 mm)
HB383S	3/8"-16	3" (76 mm)

Minimum order: 1 each. Sizes can be combined for quantity pricing.
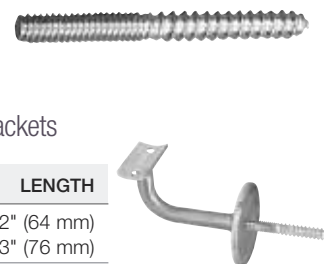
CRL Stainless Steel Allen Screws

• For Use With HRS Hand Rail Brackets

CAT. NO.	THREAD SIZE	LENGTH
AS1032316	10-32	3/16" (5 mm)
AS142014	1/4"-20	1/4" (6 mm)
AS516112	5/16"-18	1-1/2" (38 mm)
AS516134	5/16"-18	1-3/4" (45 mm)
AS5162	5/16"-18	2" (51 mm)
AS5163	5/16"-18	3" (76 mm)
AS38112	3/8"-16	1-1/2" (38 mm)

Minimum order: 10 each. Must be ordered in increments of 10. Sizes can be combined for quantity pricing.
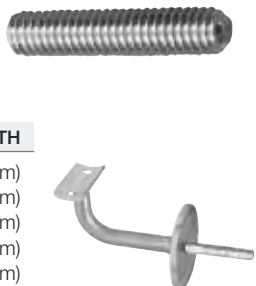
CRL Stainless Steel Threaded Rods

• For Use With HRS Hand Rail Brackets

CAT. NO.	THREAD SIZE	LENGTH
TR51618X36S	5/16"-18	36" (914 mm)
TR3816X36S	3/8"-16	36" (914 mm)

Minimum order: 1 each. Sizes can be combined for quantity pricing.
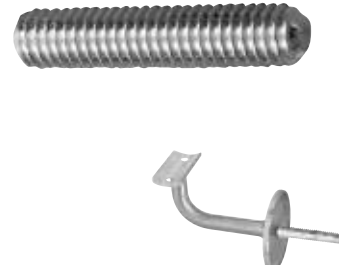
CRL SNAPTOGGLE® Toggle Anchors

• Heavy-Duty Wall Anchors
• Great for Hand Rails, Grab Bars, Display Standoffs, and Glass Shelving
• Designed for Use With Gypsum Board, Concrete, Cement Board, Plaster, Stucco, Plywood, Steel Studs, and Composite Panels

CAT. NO. TB1024
Accepts #10-24 Bolt

CAT. NO. TB1420
Accepts 1/4"-20 Bolt

CAT. NO. TB51618
Accepts 5/16"-18 Bolt

CAT. NO. TB3816
Accepts 3/8"-16 Bolt

CAT. NO. TB1213
Accepts 1/2"-13 Bolt

CRL SNAPTOGGLE® Toggle Anchors pre-install without a bolt and can be installed using a screw gun because the anchor won't spin in the hole. They also allow for bolt or fixture removal without the anchor falling behind the wall. SNAPTOGGLE® can be used in drywall, plaster, cement board, hollow walls of block, brick, stucco, fiberglass, and wood. **NOTE:** Bolts sold separately.

CAT. NO.	BOLT THREAD	DRILL HOLE	GRIP RANGE
TB1024	#10 - 24	1/2" (13 mm)	3/8" - 3-5/8" (10 - 92 mm)
TB1420	1/4" - 20	1/2" (13 mm)	3/8" - 3-5/8" (10 - 92 mm)
TB51618	5/16" - 18	3/4" (19 mm)	3/8" - 2-1/2" (10 - 64 mm)
TB3816	3/8" - 16	3/4" (19 mm)	3/8" - 2-1/2" (10 - 64 mm)
TB1213	1/2" - 13	3/4" (19 mm)	3/8" - 2-1/2" (10 - 64 mm)

Minimum order: 10 each. Must be ordered in increments of 10. Sizes can be combined for quantity pricing.

INSTALLATION INSTRUCTIONS   • Installs in Minutes

Drill appropriate size hole. Hold metal channel flat alongside plastic straps and slide channel through the hole. Minimum clearance behind wall is only 1-7/8" (48 mm).

Hold ends of straps together between thumb and forefinger and pull toward you until channel rests behind wall. Ratchet cap along straps with other hand until flange of cap is flush with wall.

Place thumb between straps at wall. Push thumb side to side, snapping off straps level with flange of cap.
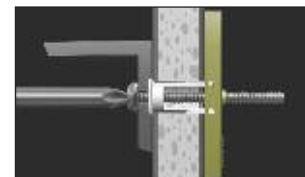
Place item over flange. Insert bolt and tighten until snug against item, then stop. Use machine screw or bolt to match thread in metal channel.

SNAPTOGGLE is a registered trademark of Mechanical Plastics Corp.

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TOLL Phone: (800) 421-6144
FREE Fax: (800) 262-3299
From Anywhere in the U.S. or Canada

CRL US ALUMINUM

CRL LED Wall Mount and Post Mount Lighted Hand Rail System

- Low Voltage 24 Volt DC Power
- Two Popular Stock Colors: Warm White and Cool White
- 50,000 Hour LED Life
- Only 4.3 Watts Per Foot
- Meets A.D.A. Requirements for Hand Railing Diameters
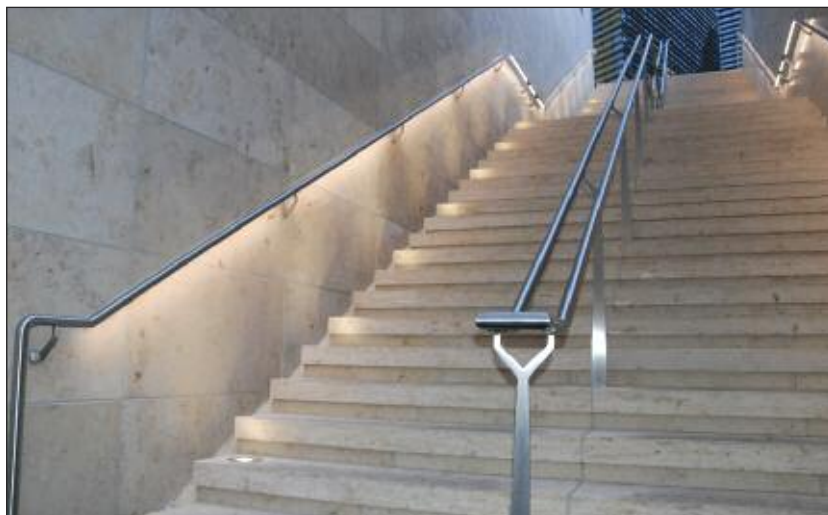
LED Light Strips in CRL Hand Railing installed at CityCenter, Las Vegas

The Benefits of LED Lighting Versus Fluorescent Lights

LED (Light-Emitting Diode) technology is the latest evolution in lighting, and offers many benefits over older, traditional lighting technologies, such as fluorescent lamps. LED products use up to 70% less energy than fluorescent lamps, are highly durable, able to withstand cold environments, contain no mercury, and are cool to the touch--making them safe choices for areas where people come into contact with lighting. With six times the expected lifetime of a fluorescent lamp, LED lighting systems require less maintenance and won't suffer from expensive relamping trips to the field. Using LEDs is an easy choice when you have the ability to resize LED light strips in the field, a simple field installation, and a safe, low-voltage system.

LED Strip Lights
See Page 374B
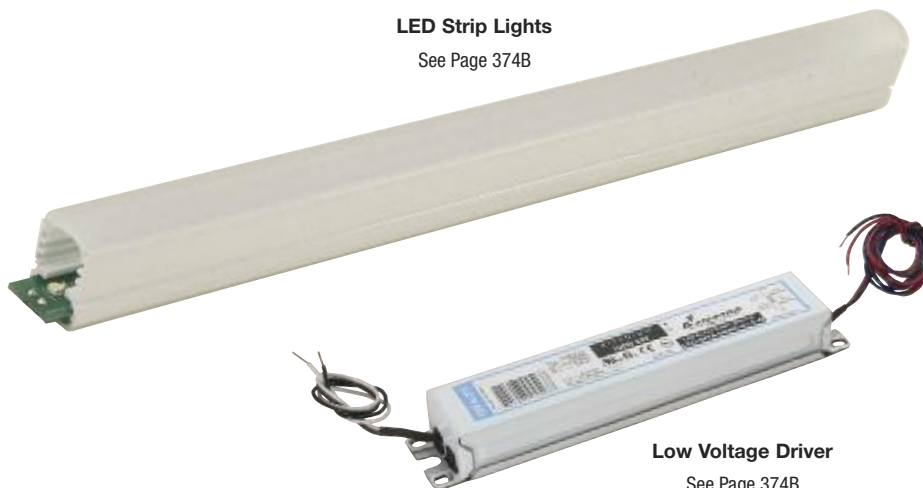
GR16 Premium Cap Rail
See Page 375B

Low Voltage Driver
See Page 374B

Driver Enclosure Box
See Page 374B
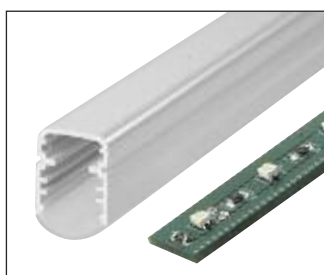
LED Lighting/Housing
See Pages 374B and 376B

LED Housing Mounting Clip
See Page 376B

LED Wiring
See Page 377B

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TOLL Phone: (800) 421-6144
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CRL
US ALUMINUM

CRL LED Lighting Components

- Ideal for Edge Lighting of Glass Panels
- Illuminates Carved or Sandblasted Images
- Meets NFPA Life Safety Code for Illumination
- 50,000 Hour LED Life
- Low Voltage - Low Maintenance
- 4.3 Watts Per Foot
- 60 Degree Beam Pattern With Diffuser Lens

LED Light Strips in CRL Hand Railing installed at CityCenter, Las Vegas

CRL LED Strip Lights

- Low Voltage Lighting Available in Five Stock Sizes
- Two Popular Stock Colors: Warm and Cool White
- Custom Colors Also Available on Special Order
- Dimmable With Appropriate Switch (Not Supplied)

Demo Kit

Cap Rail Insert Housing Sold Separately (See Page 376B)
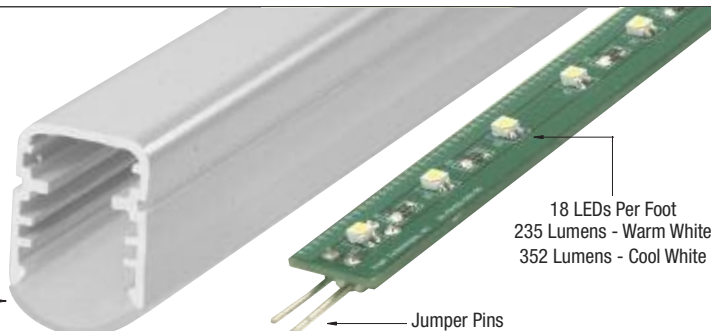
18 LEDs Per Foot
235 Lumens - Warm White
352 Lumens - Cool White

Jumper Pins

CRL LED Strip Lights have 18 LEDs per foot, which are spaced 3/4" (19 mm) on center. Available in lengths from 24" to 72" (610 to 1829 mm) all in 12" (305 mm) sections joined together. They can be cut down every 4" (102 mm) on a pre-marked line, and connected together for longer applications.

Cool White has a blue hue (7000 Kelvins operating temperature); while the Warm White has a more traditional yellow hue (2600 Kelvins operating temperature). CRL LED Strip Lights work with our Low Voltage Driver and Enclosure Box (see below). They do not come with a plug.

WARM WHITE CAT. NO.	COOL WHITE CAT. NO.	STRIP LENGTH
LED24WW	LED24CW	24" (610 mm)
LED36WW	LED36CW	36" (914 mm)
LED48WW	LED48CW	48" (1219 mm)
LED60WW	LED60CW	60" (1524 mm)
LED72WW	LED72CW	72" (1829 mm)
LEDPKWW1	LEDPKCW1	12" (305 mm) Demo Kit

Minimum order: 1 each.

CRL Low Voltage LED Driver

1-3/16" (30 mm)

9-1/2" (241 mm)
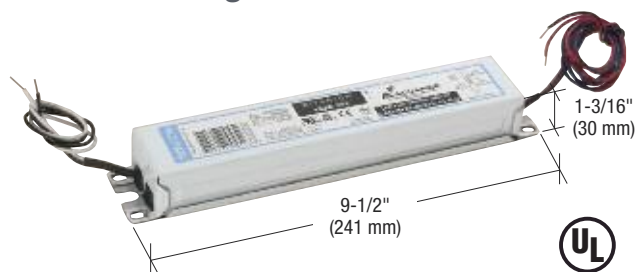
- 100W 24V Driver Provides 24V DC
- 120V to 277V Universal Input
- For Dry and Damp Locations
- Powers Up to 20'-0" of Lighting With CRL's 14 Gauge Wire
- UL Class 2 Rated

The Low Voltage LED Driver converts 120/240 Volt AC into low voltage DC power. These solid-state units have special circuitry to provide only the voltage and current demand required by the LEDs, and no more.

CAT. NO.	DESCRIPTION
PT10024	100 Watt - 24 Volt DC LED Driver

Minimum order: 1 each.

CRL LED Driver Enclosure Box

- Nema 3R Screw Cover Rain Proof Box
- Holds Up to Two LED Drivers
- Designed for Interior and Exterior Use

Height: 10" (254 mm)
Width: 8" (203 mm)
Depth: 4" (102 mm)

This Driver Enclosure Box is made of steel and painted gray. It has plenty of room to accommodate two of the LED Drivers shown at left. It prevents tampering and protects the Drivers.

CAT. NO.	DESCRIPTION
EJ1084	LED Driver Enclosure Box

Minimum order: 1 each.

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TOLL Phone: (800) 421-6144
FREE Fax: (800) 262-3299
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CRL US ALUMINUM

CRL Premium Cap Rail for Wall, Glass, and Post Mounted Hand Rail LED Lighting Applications

- 1.66" (42.2 mm) Diameter Premium Cap Railing
- Designed for Use With CRL's LED Lighting Systems
- Connects to Fabricated Corners and End Caps

This profile of our Premium Cap Rail is the ideal size for use with our LED Lighting. All CRL Premium Cap Railings are formed using precision tooling to maintain uniform diameters, allowing for smooth hairline transitions at splices, corners, and end caps. The internal channel is welded in place to increase strength and stability for fabrication. Use of our Cat. No. 7649 Primer and Cat. No. 32629 Metal Contact Cement (see page 394B) is required to achieve a secure and permanent bond at all connections.
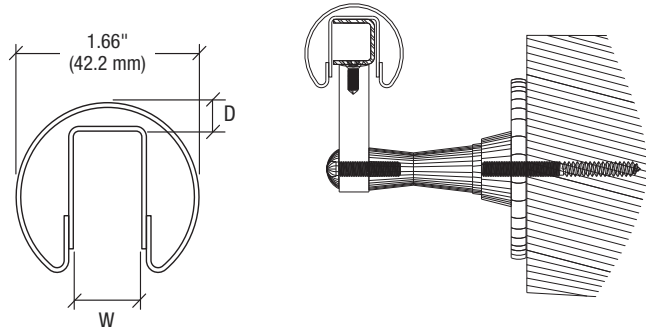
120" (3.05 M) CAT. NO.	168" (4.27 M) CAT. NO.	FINISH	ALLOY	"W" WIDTH	"D" DEPTH	MATERIAL THICKNESS	USE SLEEVE NO.
GR16BS	GR16BS14	Brushed Stainless	304	3/4" (19 mm)	1/4" (6.3 mm)	.0625" (1.6 mm)	GR16CSS
GR16PS	GR16PS14	Polished Stainless	304	3/4" (19 mm)	1/4" (6.3 mm)	.0625" (1.6 mm)	GR16CSS
GR16BS6	---	Brushed Stainless	316	3/4" (19 mm)	1/4" (6.3 mm)	.0625" (1.6 mm)	GR16CSS
GR16PS6	---	Polished Stainless	316	3/4" (19 mm)	1/4" (6.3 mm)	.0625" (1.6 mm)	GR16CSS

Minimum order: 1 each. Sizes and finishes can be combined for quantity pricing. Must ship common carrier.

CRL Wall Mounted Hand Rail Bracket Saddle Adapters

ONLINE *INSTALLATION RESOURCES*

- Allows LED Wiring to Pass Through Without Interruption
- Designed for Use With CRL's HR2D, HR2S, HR2EG, and HR2JG Hand Rail Brackets (See Pages 363B-365B, 367B)
- Brushed and Polished Stainless Finishes
- 304 Grade is Standard

Use Saddle Screw supplied with Hand Rail Bracket

(2) #8 Mounting Screws for Attachment Included with Saddle Adapter
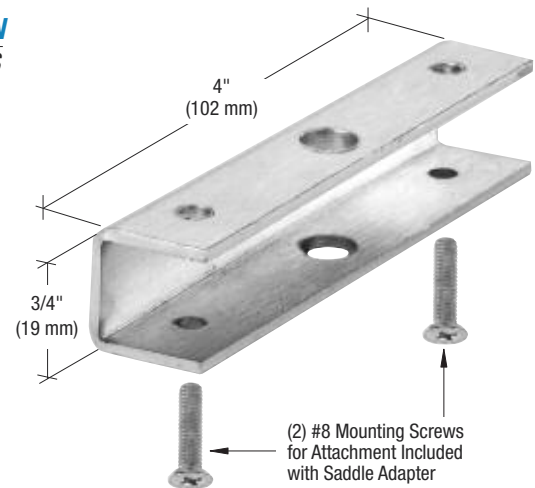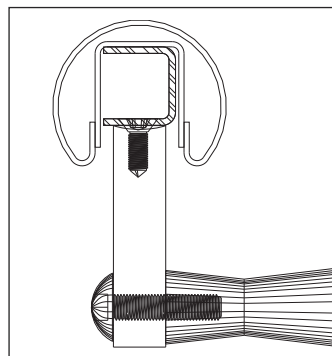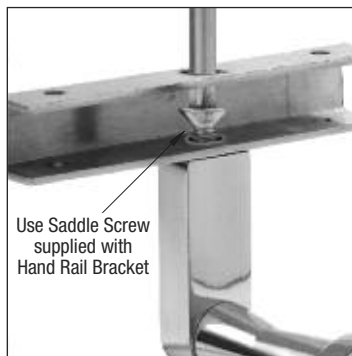
CRL's Saddle Adapters are designed to allow all LED wiring to travel unobstructed inside the hand rail along wall mounted and glass mounted hand rail applications. Screws are included.

CAT. NO.	FINISH
LEDS1BS	Brushed Stainless
LEDS1PS	Polished Stainless

Minimum order: 1 each.

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TOLL Phone: (800) 421-6144
FREE Fax: (800) 262-3299
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CRL U.S. ALUMINUM

CRL Cap Rail Housing Insert With Frosted Lens for LED Strip Lights

- Illuminate CRL Cap Rails When Used in Hand Rail Applications
- Installs With LED Housing Mounting Clips (Shown Below)

This CRL Cap Rail Housing Insert for LED Strip Lights fits into the glass pocket of our Cap Rails, allowing for installation of LED Strip Lights that illuminate the area below the Cap Rail. The Insert has multiple LED placement slots for varied lighting effects, comes with a frosted plastic lens cover, and acts as an insulated wire raceway. LED Strip Lights must be ordered separately (see page 374B).
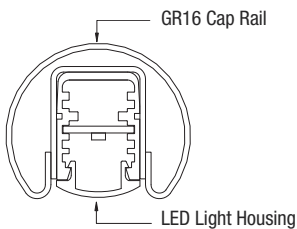
CAT. NO.	LENGTH
LEDSQ6	72" (1829 mm)

Minimum order: 1 each.

Wall Mount Hand Railing Application

GR16 Cap Rail

LED Light Housing

Post Mount Hand Railing Application

CRL LED Housing Mounting Clips

- Installs at Each End to Wedge Housing Into the Cap Rail
- 10 Clips Per Pack
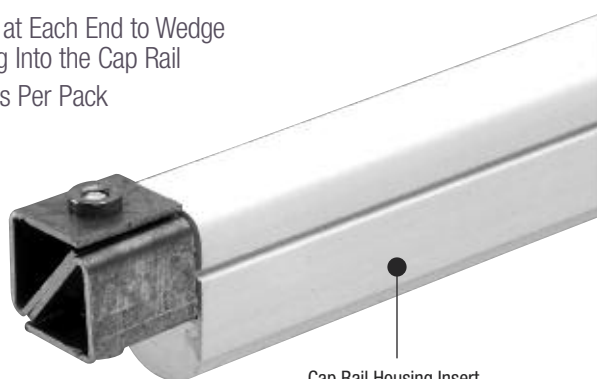
Cap Rail Housing Insert With Lens (sold separately, see above)

CAT. NO. LEDMC1
10 Clips per pack.
Minimum order is one pack.

Hand Rail

Cap Rail Housing

Mounting Clip Mounts Inside Hand Rail

Tightening Clamp Pushes Against Inside of Hand Rail

18AWG Jump Wire

Philips Head
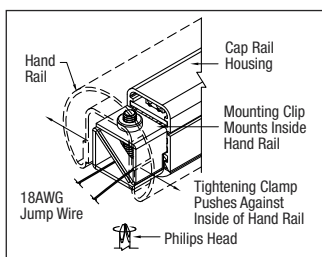
After Jump Wires and Mounting Clips are inserted into hand rail, screw into hand rail housing. Clip will expand until tight with housing. Make sure Clips are securely fastened.

CRL LED Housing Shim Pack

- Helps Hold Cap Rail Housing in Position During Installation
- 10 Shims Per Pack

CAT. NO. LEDST1
10 Shims per pack.
Minimum order is one pack.

Insert Shims for Secure Fit
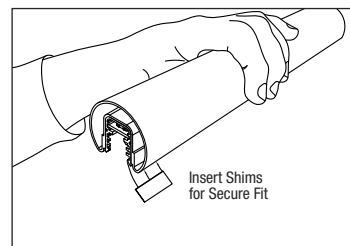
If using as a Hand Rail, insert with completed Cap Rail housing and LED Strip Lights. **NOTE**: If loose after insertion, cut LED Housing Shims to size and insert between Cap Rail's internal Channel and the LED Housing for a snug fit.

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TOLL Phone: (800) 421-6144
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CRL US ALUMINUM

CRL HAND RAILING LED LIGHTING

CRL Jumper Pins

- Designed for Connecting/Bridging LED Light Strips
- Easy to Install
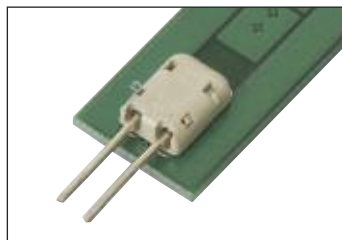
Insert Pins
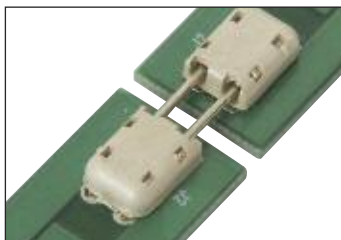
Mate to adjoining Light Strip

Jumper Pins come in packs of 10 Pins. Minimum order is one pack.

CAT. NO. LEDJP1

CRL Jumper Wires

- 18 Gauge Wiring for Connecting/Bridging LED Light Strips Together
- Available in Three Lengths

CAT. NO.	DESCRIPTION
LEDWR12	12" (305 mm) 18 Gauge Jumper Wire
LEDWR10	10' (3 m) 18 Gauge Jumper Wire
LEDWR50	50' (15.2 m) 18 Gauge Jumper Wire

Minimum order: 1 each.

CRL Silicone Based Wire Nuts

- Wire Nuts Used for LED Wiring Connections

Wire Nuts are sold in packs of 10 each. Minimum order is one pack.

CAT. NO. LEDWN1

CRL LED Lead Wire

- 14 Gauge Stranded Black Vinyl Coated Wire for Connections Between LED Drivers and LED Lighting
- 50 Foot Rolls Available From Stock

50 Foot (15.2 m) rolls of LED Lead Wire are standard 14 Gauge. Minimum order is one roll.

CAT. NO. LEDLW1
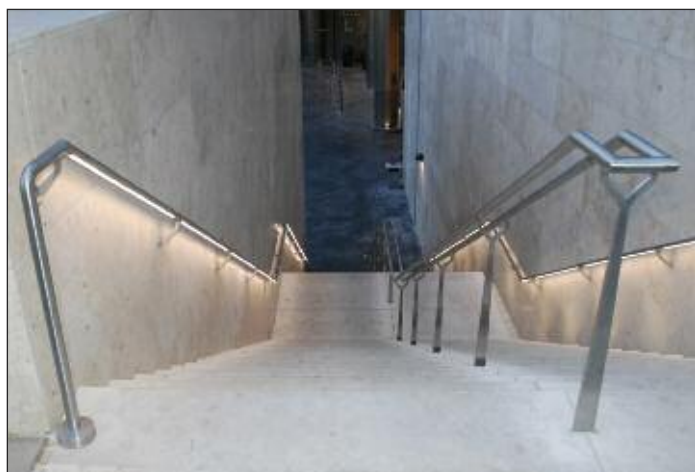
LED Light Strips in CRL Hand Railing installed at CityCenter, Las Vegas

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TOLL Phone: (800) 421-6144
FREE Fax: (800) 262-3299
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CRL US ALUMINUM

1-1/2" (38 mm) Hand Rail With Newport Series Glass Mounted Brackets

2" (51 mm) Hand Rail With La Jolla Series Glass Mounted Brackets

1.9" (48 mm) Hand Rail With Manhattan Series Glass Mounted Brackets

1.9" (48 mm) Hand Rail With Newport Series Glass Mounted Brackets

Newport Series Glass Mounted Hand Rail Brackets

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gallery   **Search**

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TOLL Phone: (800) 421-6144
FREE   Fax: (800) 262-3299
From Anywhere in the U.S. or Canada

CRL
US ALUMINUM

CRL 1-1/2" O.D. Thin Wall Hand Rail Tubing and End Caps

1.5" (38 mm)
.049" (1.2 mm) Wall Thickness

Linear Hairline Finish

- 1-1/2" (38 mm) Outside Diameter
- Three Architectural Finishes
- Ready to Install
- Requires End Caps and Connector Sleeves (Sold Separately)
- For a Full Selection of Related Parts, See Pages 351B, 380B-393B

.145" (4 mm)
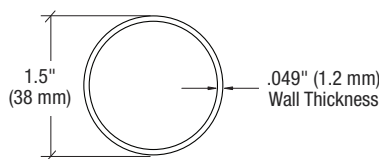
HR15F
Flat End Cap

1-1/2" (38 MM) DIAMETER HAND RAIL TUBING

CAT. NO.	GRADE	FINISH	LENGTH	USE SLEEVE NO.
HR15BS	304	Brushed Stainless	236" (6 m)#	GR15CSS
HR15PS	304	Polished Stainless	236" (6 m)#	GR15CSS
HR15BS98	304	Brushed Stainless	98" (2.49 m)	GR15CSS
HR15PS98	304	Polished Stainless	98" (2.49 m)	GR15CSS
HR15PB	C260	Polished Brass	216" (5.48 m)#	GR15CSB

Minimum order: 1 each. All Hand Rail Tubing can be combined for quantity pricing. #Must ship via common carrier.

FLAT END CAPS FOR HR15 SERIES HAND RAIL TUBING 1-1/2" (38 MM) O.D.

CAT. NO.	GRADE	FINISH
HR15FBS	304	Brushed Stainless
HR15FPS	304	Polished Stainless
HR15FPB	C260	Polished Brass

Minimum order: 1 each. All Railing End Caps can be combined for quantity pricing.

All CRL Hand Railing Tubing is formed using precision tooling to maintain uniform diameters, allowing for smooth hairline transitions at splices and end caps. Use our Cat. No. 7649 Primer and Cat. No. 32629 Metal Contact Cement (see page 394B) to achieve a secure and permanent bond at all connections. For Connector Sleeves see page 355B.

Standard stainless is 304 grade. Stainless 316 grade is available on special order. Standard brass alloy is C260. Contact CRL Technical Sales for more information or a quote. **NOTE:** Thin Wall Tubing is not designed for guard rail posts or top rails.

CRL 2" O.D. Thin Wall Hand Rail Tubing and End Caps

2" (51 mm)
.049" (1.2 mm) Wall Thickness

Linear Hairline Finish

- 2" (51 mm) Outside Diameter
- Three Architectural Finishes
- Ready to Install
- Requires End Caps and Connector Sleeves (Sold Separately)
- For a Full Selection of Related Parts, See Pages 351B, 380B-393B

.125" (3 mm)

HR20F
Flat End Cap

2" (51 MM) DIAMETER HAND RAIL TUBING

CAT. NO.	GRADE	FINISH	LENGTH	USE SLEEVE NO.
HR20BS	304	Brushed Stainless	236" (6 m)#	GR20CSS
HR20PS	304	Polished Stainless	236" (6 m)#	GR20CSS
HR20BS98	304	Brushed Stainless	98" (2.49 m)	GR20CSS
HR20PS98	304	Polished Stainless	98" (2.49 m)	GR20CSS
HR20PB	C260	Polished Brass	216" (5.48 m)#	GR20CSB

Minimum order: 1 each. All Hand Rail Tubing can be combined for quantity pricing. #Must ship via common carrier.

FLAT END CAPS FOR HR20 SERIES HAND RAIL TUBING 2" (51 MM) O.D.

CAT. NO.	GRADE	FINISH
HR20FBS	304	Brushed Stainless
HR20FPS	304	Polished Stainless
HR20FPB	C260	Polished Brass

Minimum order: 1 each. All Railing End Caps can be combined for quantity pricing.

All CRL Hand Railing Tubing is formed using precision tooling to maintain uniform diameters, allowing for smooth hairline transitions at splices and end caps. Use our Cat. No. 7649 Primer and Cat. No. 32629 Metal Contact Cement (see page 394B) to achieve a secure and permanent bond at all connections. For Connector Sleeves see page 355B.

Standard stainless is 304 grade. Stainless 316 grade is available on special order. Standard brass alloy is C260. Contact CRL Technical Sales for more information or a quote. **NOTE:** Thin Wall Tubing is not designed for guard rail posts or top rails.

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379B
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CRL US ALUMINUM

CRL Mitered Style 90 Degree Corners

• Ready to Install

• 304 Grade Stainless or C260 Brass Alloy Standard

L

W

90 Degrees

NOTE: Use Cat. No. 7649 Primer and Cat. No. 32629 Metal Contact Cement for a secure and permanent bond (see page 394B).

MITERED STYLE 90 DEGREE CORNERS FOR 1-1/2" (38 MM) THIN WALL TUBING

CAT. NO.	FINISH	"L" LENGTH	"W" WIDTH
HR15MCBS	Brushed Stainless	2-3/8" (60 mm)	2-3/8" (60 mm)
HR15MCPS	Polished Stainless	2-3/8" (60 mm)	2-3/8" (60 mm)
HR15MCPB	Polished Brass	2-3/8" (60 mm)	2-3/8" (60 mm)

Minimum order: 1 each. All Hand Rail Fittings can be combined for quantity pricing.

MITERED STYLE 90 DEGREE CORNERS FOR 2" (51 MM) THIN WALL TUBING

CAT. NO.	FINISH	"L" LENGTH	"W" WIDTH
HR20MCBS	Brushed Stainless	3-1/8" (80 mm)	3-1/8" (80 mm)
HR20MCPS	Polished Stainless	3-1/8" (80 mm)	3-1/8" (80 mm)
HR20MCPB	Polished Brass	3-1/8" (80 mm)	3-1/8" (80 mm)

Minimum order: 1 each. All Hand Rail Fittings can be combined for quantity pricing.

CRL Mitered Style 100 Degree Corners

• Ready to Install

• 304 Grade Stainless or C260 Brass Alloy Standard

L

W

100 Degrees

MITERED STYLE 100 DEGREE CORNERS FOR 1-1/2" (38 MM) THIN WALL TUBING

CAT. NO.	FINISH	"L" LENGTH	"C/L"
HR15SCBS	Brushed Stainless	2-3/8" (60 mm)	2-3/8" (60 mm)
HR15SCPS	Polished Stainless	2-3/8" (60 mm)	2-3/8" (60 mm)
HR15SCPB	Polished Brass	2-3/8" (60 mm)	2-3/8" (60 mm)

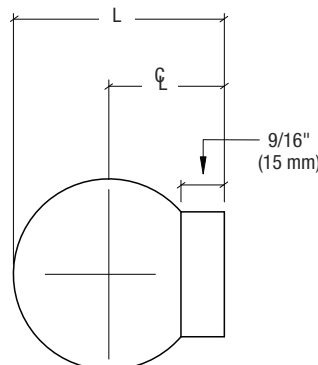Minimum order: 1 each. All Hand Rail Fittings can be combined for quantity pricing.

NOTE: Use Cat. No. 7649 Primer and Cat. No. 32629 Metal Contact Cement for a secure and permanent bond (see page 394B).

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CRL US ALUMINUM

CRL 135 Degree Flush Angles

- Ready to Install
- 304 Grade Stainless or C260 Brass Alloy Standard
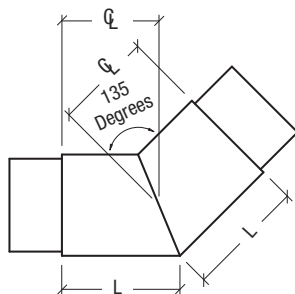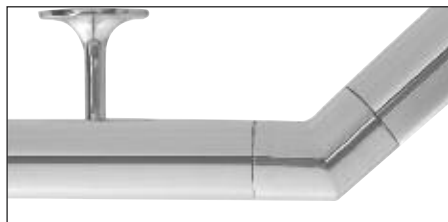
135 Degrees

NOTE: Use Cat. No. 7649 Primer and Cat. No. 32629 Metal Contact Cement for a secure and permanent bond (see page 394B).

135 DEGREE FLUSH ANGLES FOR 1-1/2" (38 MM) THIN WALL TUBING

CAT. NO.	FINISH	"L" LENGTH	"C/L"
HR15MBS	Brushed Stainless	1-3/4" (45 mm)	1-7/16" (37 mm)
HR15MPS	Polished Stainless	1-3/4" (45 mm)	1-7/16" (37 mm)
HR15MPB	Polished Brass	1-3/4" (45 mm)	1-7/16" (37 mm)

Minimum order: 1 each. All Hand Rail Fittings can be combined for quantity pricing.

135 DEGREE FLUSH ANGLES FOR 2" (51 MM) THIN WALL TUBING

CAT. NO.	FINISH	"L" LENGTH	"C/L"
HR20MBS	Brushed Stainless	2" (51 mm)	1-9/16" (39 mm)
HR20MPS	Polished Stainless	2" (51 mm)	1-9/16" (39 mm)
HR20MPB	Polished Brass	2" (51 mm)	1-9/16" (39 mm)

Minimum order: 1 each. All Hand Rail Fittings can be combined for quantity pricing.

CRL 147 Degree Flush Angles
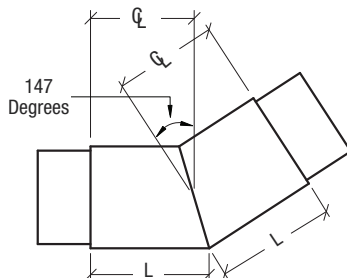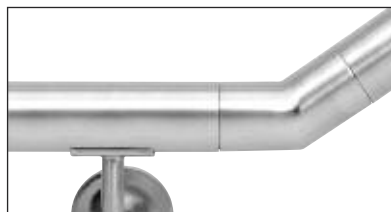
- Ready to Install
- 304 Grade Stainless or C260 Brass Alloy Standard

147 Degrees

NOTE: Use Cat. No. 7649 Primer and Cat. No. 32629 Metal Contact Cement for a secure and permanent bond (see page 394B).

147 DEGREE FLUSH ANGLES FOR 1-1/2" (38 MM) THIN WALL TUBING

CAT. NO.	FINISH	"L" LENGTH	"C/L"
HR15ABS	Brushed Stainless	1-3/4" (45 mm)	1-9/16" (39 mm)
HR15APS	Polished Stainless	1-3/4" (45 mm)	1-9/16" (39 mm)
HR15APB	Polished Brass	1-3/4" (45 mm)	1-9/16" (39 mm)

Minimum order: 1 each. All Hand Rail Fittings can be combined for quantity pricing.

147 DEGREE FLUSH ANGLES FOR 2" (51 MM) THIN WALL TUBING

CAT. NO.	FINISH	"L" LENGTH	"C/L"
HR20ABS	Brushed Stainless	2" (51 mm)	1-11/16" (43 mm)
HR20APS	Polished Stainless	2" (51 mm)	1-11/16" (43 mm)
HR20APB	Polished Brass	2" (51 mm)	1-11/16" (43 mm)

Minimum order: 1 each. All Hand Rail Fittings can be combined for quantity pricing.
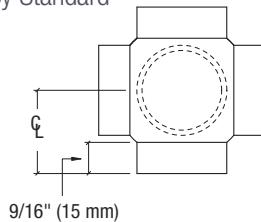
CRL 170 Degree Flush Angle

- Ready to Install
- 304 Grade Stainless or C260 Brass Alloy Standard
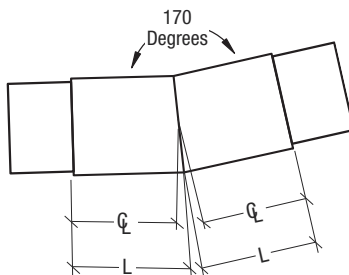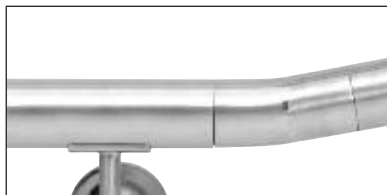
170 Degrees

NOTE: Use Cat. No. 7649 Primer and Cat. No. 32629 Metal Contact Cement for a secure and permanent bond (see page 394B).

170 DEGREE FLUSH ANGLE FOR 1-1/2" (38 MM) THIN WALL TUBING

CAT. NO.	FINISH	"L" LENGTH	"C/L"
HR15SABS	Brushed Stainless	1-3/4" (45 mm)	1-11/16" (43 mm)
HR15SAPS	Polished Stainless	1-3/4" (45 mm)	1-11/16" (43 mm)
HR15SAPB	Polished Brass	1-3/4" (45 mm)	1-11/16" (43 mm)

Minimum order: 1 each. All Hand Rail Fittings can be combined for quantity pricing.

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CRL US ALUMINUM

CRL HRS HAND RAILING SYSTEMS

CRL EZ Radius 90 Degree Corners

- Ready to Install
- 304 Grade Stainless or C260 Brass Alloy Standard
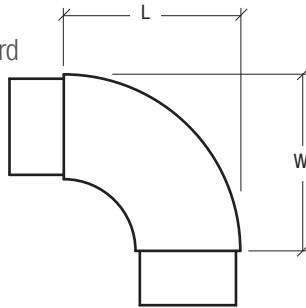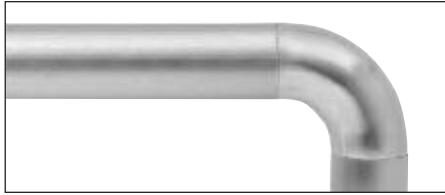
NOTE: Use Cat. No. 7649 Primer and Cat. No. 32629 Metal Contact Cement for a secure and permanent bond (see page 394B).

EZ RADIUS 90 DEGREE CORNERS FOR 1-1/2" (38 MM) THIN WALL TUBING

CAT. NO.	FINISH	"L" LENGTH	"W" WIDTH
HR15CBS	Brushed Stainless	2-9/16" (65 mm)	2-9/16" (65 mm)
HR15CPS	Polished Stainless	2-9/16" (65 mm)	2-9/16" (65 mm)
HR15CPB	Polished Brass	2-9/16" (65 mm)	2-9/16" (65 mm)

Minimum order: 1 each. All Hand Rail Fittings can be combined for quantity pricing.

EZ RADIUS 90 DEGREE CORNERS FOR 2" (51 MM) THIN WALL TUBING

CAT. NO.	FINISH	"L" LENGTH	"W" WIDTH
HR20CBS	Brushed Stainless	2-15/16" (75 mm)	2-15/16" (75 mm)
HR20CPS	Polished Stainless	2-15/16" (75 mm)	2-15/16" (75 mm)
HR20CPB	Polished Brass	2-15/16" (75 mm)	2-15/16" (75 mm)

Minimum order: 1 each. All Hand Rail Fittings can be combined for quantity pricing.

CRL Side Outlet Tees

- Ready to Install
- 304 Grade Stainless or C260 Brass Alloy Standard
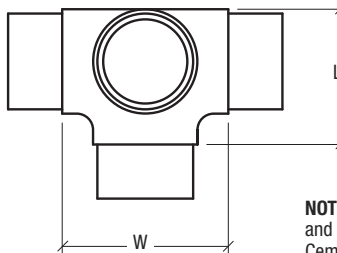
NOTE: Use Cat. No. 7649 Primer and Cat. No. 32629 Metal Contact Cement for a secure and permanent bond (see page 394B).

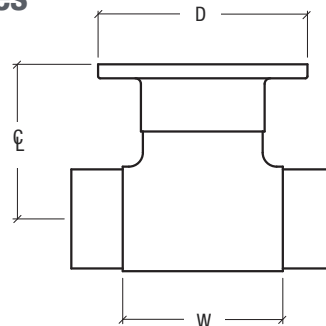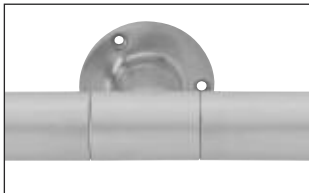**SIDE OUTLET TEES FOR 1-1/2" (38 MM) THIN WALL TUBING**

CAT. NO.	FINISH	"L" LENGTH	"W" WIDTH
HR15LBS	Brushed Stainless	2" (51 mm)	2-7/16" (61 mm)
HR15LPS	Polished Stainless	2" (51 mm)	2-7/16" (61 mm)
HR15LPB	Polished Brass	2" (51 mm)	2-7/16" (61 mm)

Minimum order: 1 each. All Hand Rail Fittings can be combined for quantity pricing.

SIDE OUTLET TEES FOR 2" (51 MM) THIN WALL TUBING

CAT. NO.	FINISH	"L" LENGTH	"W" WIDTH
HR20LBS	Brushed Stainless	2-3/8" (60 mm)	2-11/16" (69 mm)
HR20LPS	Polished Stainless	2-3/8" (60 mm)	2-11/16" (69 mm)
HR20LPB	Polished Brass	2-3/8" (60 mm)	2-11/16" (69 mm)

Minimum order: 1 each. All Hand Rail Fittings can be combined for quantity pricing.

CRL Flush Crosses

- Ready to Install
- 304 Grade Stainless or C260 Brass Alloy Standard
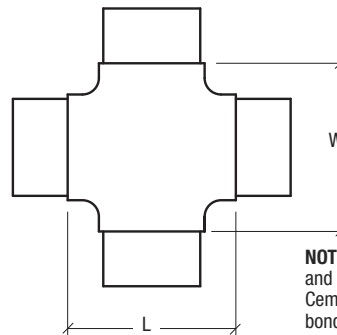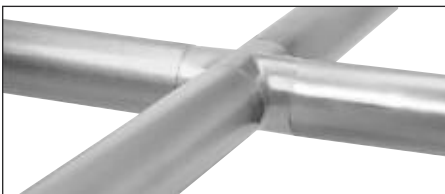
NOTE: Use Cat. No. 7649 Primer and Cat. No. 32629 Metal Contact Cement for a secure and permanent bond (see page 394B).

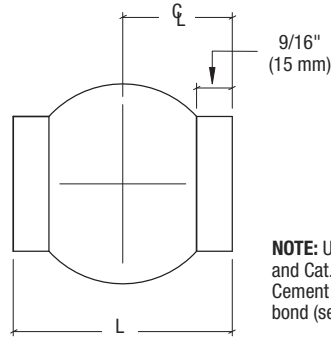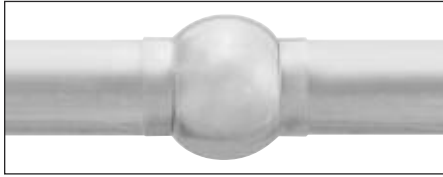**FLUSH CROSSES FOR 1-1/2" (38 MM) THIN WALL TUBING**

CAT. NO.	FINISH	"L" LENGTH	"W" WIDTH
HR15NBS	Brushed Stainless	2-7/16" (61 mm)	2-7/16" (61 mm)
HR15NPS	Polished Stainless	2-7/16" (61 mm)	2-7/16" (61 mm)
HR15NPB	Polished Brass	2-7/16" (61 mm)	2-7/16" (61 mm)

Minimum order: 1 each. All Hand Rail Fittings can be combined for quantity pricing.

FLUSH CROSSES FOR 2" (51 MM) THIN WALL TUBING

CAT. NO.	FINISH	"L" LENGTH	"W" WIDTH
HR20NBS	Brushed Stainless	2-11/16" (69 mm)	2-11/16" (69 mm)
HR20NPS	Polished Stainless	2-11/16" (69 mm)	2-11/16" (69 mm)
HR20NPB	Polished Brass	2-11/16" (69 mm)	2-11/16" (69 mm)

Minimum order: 1 each. All Hand Rail Fittings can be combined for quantity pricing.

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CRL US ALUMINUM

CRL Dome End Caps

• Ready to Install
• 304 Grade Stainless or C260 Brass Alloy Standard
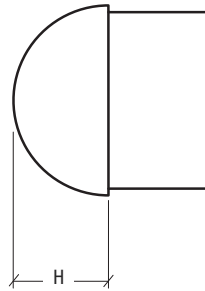
NOTE: Use Cat. No. 7649 Primer and Cat. No. 32629 Metal Contact Cement for a secure and permanent bond (see page 394B).

DOME END CAPS FOR 1-1/2" (38 MM) THIN WALL TUBING

CAT. NO.	FINISH	"H" HEIGHT
HR15DBS	Brushed Stainless	3/4" (19 mm)
HR15DPS	Polished Stainless	3/4" (19 mm)
HR15DPB	Polished Brass	3/4" (19 mm)

Minimum order: 1 each. All Railing End Caps can be combined for quantity pricing.

DOME END CAPS FOR 2" (51 MM) THIN WALL TUBING

CAT. NO.	FINISH	"H" HEIGHT
HR20DBS	Brushed Stainless	1" (25 mm)
HR20DPS	Polished Stainless	1" (25 mm)
HR20DPB	Polished Brass	1" (25 mm)

Minimum order: 1 each. All Railing End Caps can be combined for quantity pricing.

CRL 90 Degree Flush Angle Ends

• Ready to Install
• 304 Grade Stainless or C260 Brass Alloy Standard
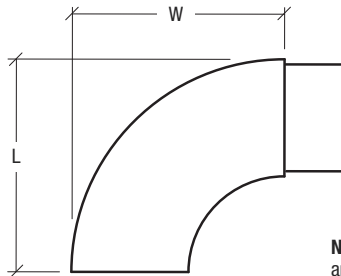
NOTE: Use Cat. No. 7649 Primer and Cat. No. 32629 Metal Contact Cement for a secure and permanent bond (see page 394B).

90 DEGREE FLUSH ANGLE ENDS FOR 1-1/2" (38 MM) THIN WALL TUBING

CAT. NO.	FINISH	"L" LENGTH	"W" WIDTH
HR15RBS	Brushed Stainless	2-3/4" (70 mm)	2-3/4" (70 mm)
HR15RPS	Polished Stainless	2-3/4" (70 mm)	2-3/4" (70 mm)
HR15RPB	Polished Brass	2-3/4" (70 mm)	2-3/4" (70 mm)

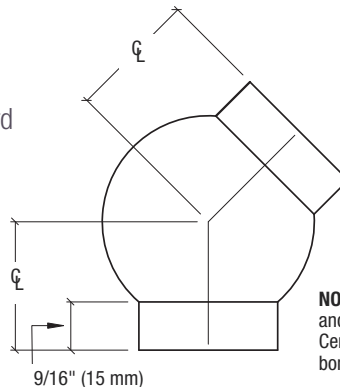Minimum order: 1 each. All Hand Rail Fittings can be combined for quantity pricing.

90 DEGREE FLUSH ANGLE ENDS FOR 2" (51 MM) THIN WALL TUBING

| CAT. NO.	FINISH	"L" LENGTH	"W" WIDTH
HR20RBS	Brushed Stainless	3-5/32" (80 mm)	3-11/32" (85 mm)
HR20RPS	Polished Stainless	3-5/32" (80 mm)	3-11/32" (85 mm)
HR20RPB	Polished Brass	3-5/32" (80 mm)	3-11/32" (85 mm)

Minimum order: 1 each. All Hand Rail Fittings can be combined for quantity pricing.

CRL Sharp Radius 90 Degree Corners

• Ready to Install
• 304 Grade Stainless or C260 Brass Alloy Standard
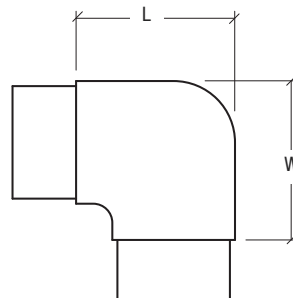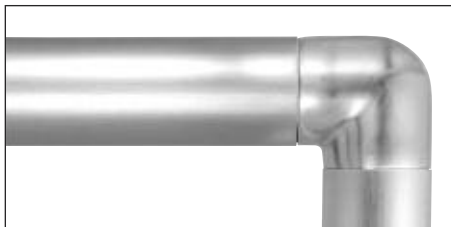
NOTE: Use Cat. No. 7649 Primer and Cat. No. 32629 Metal Contact Cement for a secure and permanent bond (see page 394B).

SHARP RADIUS 90 DEGREE CORNERS FOR 1-1/2" (38 MM) THIN WALL TUBING

CAT. NO.	FINISH	"L" LENGTH	"W" WIDTH
HR15HBS	Brushed Stainless	2" (51 mm)	2" (51 mm)
HR15HPS	Polished Stainless	2" (51 mm)	2" (51 mm)
HR15HPB	Polished Brass	2" (51 mm)	2" (51 mm)

Minimum order: 1 each. All Hand Rail Fittings can be combined for quantity pricing.

SHARP RADIUS 90 DEGREE CORNERS FOR 2" (51 MM) THIN WALL TUBING

CAT. NO.	FINISH	"L" LENGTH	"W" WIDTH
HR20HBS	Brushed Stainless	2-3/8" (60 mm)	2-3/8" (60 mm)
HR20HPS	Polished Stainless	2-3/8" (60 mm)	2-3/8" (60 mm)
HR20HPB	Polished Brass	2-3/8" (60 mm)	2-3/8" (60 mm)

Minimum order: 1 each. All Hand Rail Fittings can be combined for quantity pricing.

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CRL US ALUMINUM

CRL 90 Degree Side Outlet Elbows

- Ready to Install
- 304 Grade Stainless or C260 Brass Alloy Standard
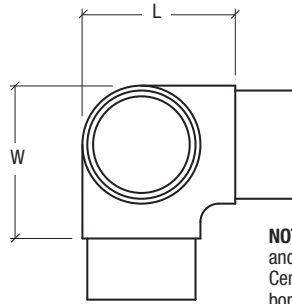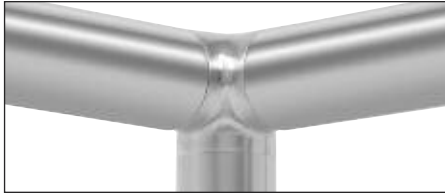
NOTE: Use Cat. No. 7649 Primer and Cat. No. 32629 Metal Contact Cement for a secure and permanent bond (see page 394B).

90 DEGREE SIDE OUTLET ELBOWS FOR 1-1/2" (38 MM) THIN WALL TUBING

CAT. NO.	FINISH	"L" LENGTH	"W" WIDTH
HR15JBS	Brushed Stainless	2" (51 mm)	2" (51 mm)
HR15JPS	Polished Stainless	2" (51 mm)	2" (51 mm)
HR15JPB	Polished Brass	2" (51 mm)	2" (51 mm)

Minimum order: 1 each. All Hand Rail Fittings can be combined for quantity pricing.

90 DEGREE SIDE OUTLET ELBOWS FOR 2" (51 MM) THIN WALL TUBING

CAT. NO.	FINISH	"L" LENGTH	"W" WIDTH
HR20JBS	Brushed Stainless	2-3/8" (60 mm)	2-3/8" (60 mm)
HR20JPS	Polished Stainless	2-3/8" (60 mm)	2-3/8" (60 mm)
HR20JPB	Polished Brass	2-3/8" (60 mm)	2-3/8" (60 mm)

Minimum order: 1 each. All Hand Rail Fittings can be combined for quantity pricing.

CRL Flush Tees

- Ready to Install
- 304 Grade Stainless or C260 Brass Alloy Standard
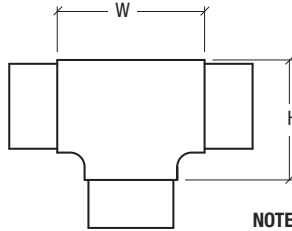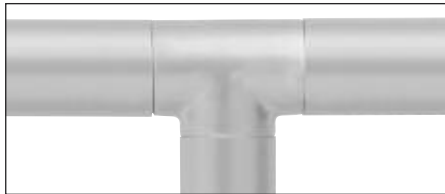
NOTE: Use Cat. No. 7649 Primer and Cat. No. 32629 Metal Contact Cement for a secure and permanent bond (see page 394B).

FLUSH TEES FOR 1-1/2" (38 MM) THIN WALL TUBING

CAT. NO.	FINISH	"H" HEIGHT	"W" WIDTH
HR15KBS	Brushed Stainless	2" (51 mm)	2-7/16" (61 mm)
HR15KPS	Polished Stainless	2" (51 mm)	2-7/16" (61 mm)
HR15KPB	Polished Brass	2" (51 mm)	2-7/16" (61 mm)

Minimum order: 1 each. All Hand Rail Fittings can be combined for quantity pricing.

FLUSH TEES FOR 2" (51 MM) THIN WALL TUBING

CAT. NO.	FINISH	"H" HEIGHT	"W" WIDTH
HR20KBS	Brushed Stainless	2-3/8" (60 mm)	2-11/16" (69 mm)
HR20KPS	Polished Stainless	2-3/8" (60 mm)	2-11/16" (69 mm)
HR20KPB	Polished Brass	2-3/8" (60 mm)	2-11/16" (69 mm)

Minimum order: 1 each. All Hand Rail Fittings can be combined for quantity pricing.

CRL End Scrolls

- Ready to Install
- 304 Grade Stainless or C260 Brass Alloy Standard
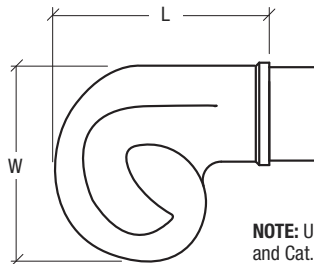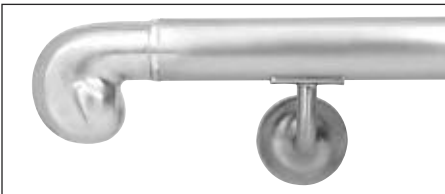
NOTE: Use Cat. No. 7649 Primer and Cat. No. 32629 Metal Contact Cement for a secure and permanent bond (see page 394B).

END SCROLLS FOR 1-1/2" (38 MM) THIN WALL TUBING

CAT. NO.	FINISH	"L" LENGTH	"W" WIDTH
HR15EBS	Brushed Stainless	2-15/16" (75 mm)	2-15/16" (75 mm)
HR15EPS	Polished Stainless	2-15/16" (75 mm)	2-15/16" (75 mm)
HR15EPB	Polished Brass	2-15/16" (75 mm)	2-15/16" (75 mm)

Minimum order: 1 each. All Hand Rail Fittings can be combined for quantity pricing.
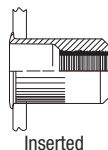
END SCROLLS FOR 2" (51 MM) THIN WALL TUBING

CAT. NO.	FINISH	"L" LENGTH	"W" WIDTH
HR20EBS	Brushed Stainless	2-15/16" (75 mm)	3-1/16" (78 mm)
HR20EPS	Polished Stainless	2-15/16" (75 mm)	3-1/16" (78 mm)
HR20EPB	Polished Brass	2-15/16" (75 mm)	3-1/16" (78 mm)

Minimum order: 1 each. All Hand Rail Fittings can be combined for quantity pricing.

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CRL 90 Degree Ball Type Side Outlet Elbows

- Ready to Install
- 304 Grade Stainless or C260 Brass Alloy Standard
- Comes With Mounting Screws

9/16" (15 mm)

9/16" (15 mm)

9/16" (15 mm)
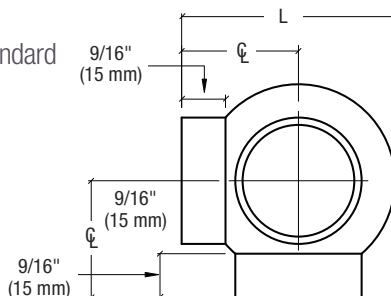
NOTE: Use Cat. No. 7649 Primer and Cat. No. 32629 Metal Contact Cement for a secure and permanent bond (see page 394B).

2-5/8" (66 MM) 90 DEGREE BALL TYPE SIDE OUTLET ELBOWS FOR 1-1/2" (38 MM) THIN WALL TUBING

CAT. NO.	FINISH	"L" LENGTH	"C/L"
HR15BJBS	Brushed Stainless	2-7/8" (73 mm)	1-9/16" (40 mm)
HR15BJPS	Polished Stainless	2-7/8" (73 mm)	1-9/16" (40 mm)
HR15BJPB	Polished Brass	2-7/8" (73 mm)	1-9/16" (40 mm)

Minimum order: 1 each. All Hand Rail Fittings can be combined for quantity pricing.

3-5/16" (84 MM) 90 DEGREE BALL TYPE SIDE OUTLET ELBOWS FOR 2" (51 MM) THIN WALL TUBING

CAT. NO.	FINISH	"L" LENGTH	"C/L"
HR20BJBS	Brushed Stainless	3-7/16" (88 mm)	1-13/16" (46 mm)
HR20BJPS	Polished Stainless	3-7/16" (88 mm)	1-13/16" (46 mm)
HR20BJPB	Polished Brass	3-7/16" (88 mm)	1-13/16" (46 mm)

Minimum order: 1 each. All Hand Rail Fittings can be combined for quantity pricing.

CRL Ball Type Tees

- Ready to Install
- 304 Grade Stainless or C260 Brass Alloy Standard
- Comes With Mounting Screws

9/16" (15 mm)

9/16" (15 mm)
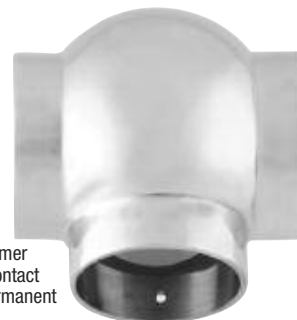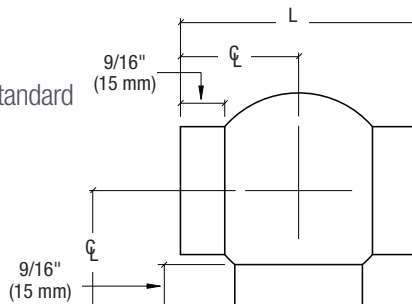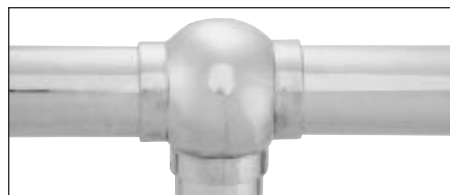
NOTE: Use Cat. No. 7649 Primer and Cat. No. 32629 Metal Contact Cement for a secure and permanent bond (see page 394B).

2-5/8" (66 MM) BALL TYPE TEES FOR 1-1/2" (38 MM) THIN WALL TUBING

CAT. NO.	FINISH	"L" LENGTH	"C/L"
HR15BKBS	Brushed Stainless	3-1/8" (80 mm)	1-9/16" (40 mm)
HR15BKPS	Polished Stainless	3-1/8" (80 mm)	1-9/16" (40 mm)
HR15BKPB	Polished Brass	3-1/8" (80 mm)	1-9/16" (40 mm)

Minimum order: 1 each. All Hand Rail Fittings can be combined for quantity pricing.

3-5/16" (84 MM) BALL TYPE TEES FOR 2" (51 MM) THIN WALL TUBING

CAT. NO.	FINISH	"L" LENGTH	"C/L"
HR20BKBS	Brushed Stainless	3-5/8" (92 mm)	1-13/16" (46 mm)
HR20BKPS	Polished Stainless	3-5/8" (92 mm)	1-13/16" (46 mm)
HR20BKPB	Polished Brass	3-5/8" (92 mm)	1-13/16" (46 mm)

Minimum order: 1 each. All Hand Rail Fittings can be combined for quantity pricing.

CRL Ball Type Side Outlet Tees

- Ready to Install
- 304 Grade Stainless or C260 Brass Alloy Standard
- Comes With Mounting Screws

9/16" (15 mm)

9/16" (15 mm)
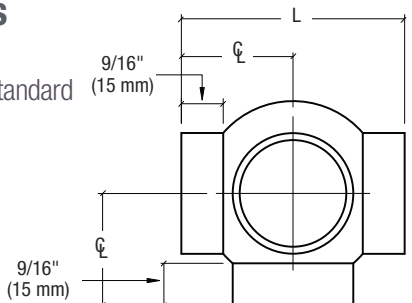
NOTE: Use Cat. No. 7649 Primer and Cat. No. 32629 Metal Contact Cement for a secure and permanent bond (see page 394B).

2-5/8" (66 MM) BALL TYPE SIDE OUTLET TEES FOR 1-1/2" (38 MM) THIN WALL TUBING

CAT. NO.	FINISH	"L" LENGTH	"C/L"
HR15BLBS	Brushed Stainless	3-1/8" (80 mm)	1-9/16" (40 mm)
HR15BLPS	Polished Stainless	3-1/8" (80 mm)	1-9/16" (40 mm)
HR15BLPB	Polished Brass	3-1/8" (80 mm)	1-9/16" (40 mm)

Minimum order: 1 each. All Hand Rail Fittings can be combined for quantity pricing.

3-5/16" (84 MM) BALL TYPE SIDE OUTLET TEES FOR 2" (51 MM) THIN WALL TUBING

CAT. NO.	FINISH	"L" LENGTH	"C/L"
HR20BLBS	Brushed Stainless	3-5/8" (92 mm)	1-13/16" (46 mm)
HR20BLPS	Polished Stainless	3-5/8" (92 mm)	1-13/16" (46 mm)
HR20BLPB	Polished Brass	3-5/8" (92 mm)	1-13/16" (46 mm)

Minimum order: 1 each. All Hand Rail Fittings can be combined for quantity pricing.

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CRL US ALUMINUM

CRL 135 Degree Side Outlet Elbows

- Ready to Install
- 304 Grade Stainless or C260 Brass Alloy Standard
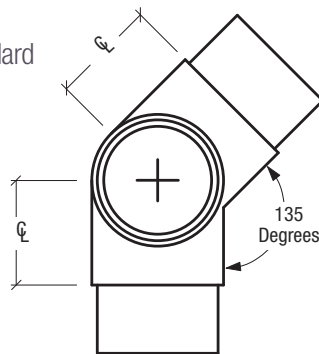
135 Degrees

NOTE: Use Cat. No. 7649 Primer and Cat. No. 32629 Metal Contact Cement for a secure and permanent bond (see page 394B).

135 DEGREE SIDE OUTLET ELBOWS FOR 1-1/2" (38 MM) THIN WALL TUBING

CAT. NO.	FINISH	"C/L"
HR15PBS	Brushed Stainless	1-7/16" (37 mm)
HR15PPS	Polished Stainless	1-7/16" (37 mm)
HR15PPB	Polished Brass	1-7/16" (37 mm)

Minimum order: 1 each. All Hand Rail Fittings can be combined for quantity pricing.

135 DEGREE SIDE OUTLET ELBOWS FOR 2" (51 MM) THIN WALL TUBING

CAT. NO.	FINISH	"C/L"
HR20PBS	Brushed Stainless	1-9/16" (39 mm)
HR20PPS	Polished Stainless	1-9/16" (39 mm)
HR20PPB	Polished Brass	1-9/16" (39 mm)

Minimum order: 1 each. All Hand Rail Fittings can be combined for quantity pricing.

CRL Flush Wall Returns

- Ready to Install
- 304 Grade Stainless or C260 Brass Alloy Standard
- Comes With Mounting Hardware
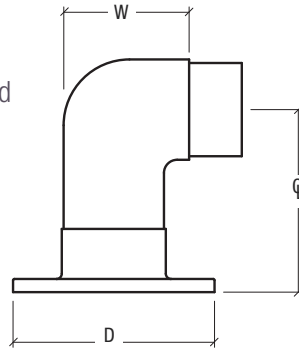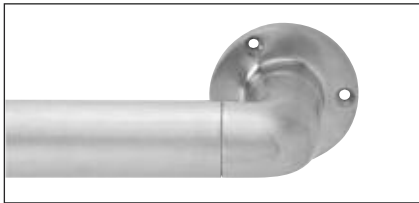
W

D

NOTE: Use Cat. No. 7649 Primer and Cat. No. 32629 Metal Contact Cement for a secure and permanent bond (see page 394B).

FLUSH WALL RETURNS FOR 1-1/2" (38 MM) THIN WALL TUBING

CAT. NO.	FINISH	"D"	"W"	"C/L"
HR15QBS	Brushed Stainless	3" (76 mm)	1-7/8" (48 mm)	2-3/4" (70 mm)
HR15QPS	Polished Stainless	3" (76 mm)	1-7/8" (48 mm)	2-3/4" (70 mm)
HR15QPB	Polished Brass	3" (76 mm)	1-7/8" (48 mm)	2-3/4" (70 mm)

Minimum order: 1 each. All Hand Rail Fittings can be combined for quantity pricing.

FLUSH WALL RETURNS FOR 2" (51 MM) THIN WALL TUBING

CAT. NO.	FINISH	"D"	"W"	"C/L"
HR20QBS	Brushed Stainless	4" (102 mm)	2-1/2" (64 mm)	3" (76 mm)
HR20QPS	Polished Stainless	4" (102 mm)	2-1/2" (64 mm)	3" (76 mm)
HR20QPB	Polished Brass	4" (102 mm)	2-1/2" (64 mm)	3" (76 mm)

Minimum order: 1 each. All Hand Rail Fittings can be combined for quantity pricing.

CRL Ball Type End Caps

- Ready to Install
- 304 Grade Stainless or C260 Brass Alloy Standard
- Comes With Mounting Screw

L

9/16" (15 mm)

NOTE: Use Cat. No. 7649 Primer and Cat. No. 32629 Metal Contact Cement for a secure and permanent bond (see page 394B).

2-5/8" (66 MM) BALL TYPE END CAPS FOR 1-1/2" (38 MM) THIN WALL TUBING

CAT. NO.	FINISH	"L"	"C/L"
HR15BBS	Brushed Stainless	2-7/8" (73 mm)	1-9/16" (40 mm)
HR15BPS	Polished Stainless	2-7/8" (73 mm)	1-9/16" (40 mm)
HR15BPB	Polished Brass	2-7/8" (73 mm)	1-9/16" (40 mm)

Minimum order: 1 each. All Railing End Caps can be combined for quantity pricing.

3-5/16" (84 MM) BALL TYPE END CAPS FOR 2" (51 MM) THIN WALL TUBING

CAT. NO.	FINISH	"L"	"C/L"
HR20BBS	Brushed Stainless	3-7/16" (88 mm)	1-13/16" (46 mm)
HR20BPS	Polished Stainless	3-7/16" (88 mm)	1-13/16" (46 mm)
HR20BPB	Polished Brass	3-7/16" (88 mm)	1-13/16" (46 mm)

Minimum order: 1 each. All Railing End Caps can be combined for quantity pricing.

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CRL US ALUMINUM

CRL 135 Degree Ball Type Side Outlet Tees

- Ready to Install
- 304 Grade Stainless or C260 Brass Alloy Standard
- Comes With Mounting Screws

9/16" (15 mm)

9/16" (15 mm)

NOTE: Use Cat. No. 7649 Primer and Cat. No. 32629 Metal Contact Cement for a secure and permanent bond (see page 394B).
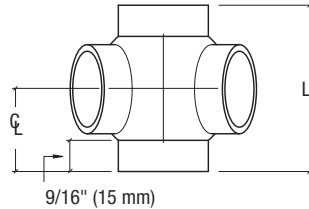
2-5/8" (66 MM) 135 DEGREE BALL TYPE SIDE OUTLET TEES FOR 1-1/2" (38 MM) THIN WALL TUBING

CAT. NO.	FINISH	"L" LENGTH	"C/L"
HR15BQBS	Brushed Stainless	3-1/8" (80 mm)	1-9/16" (40 mm)
HR15BQPS	Polished Stainless	3-1/8" (80 mm)	1-9/16" (40 mm)
HR15BQPB	Polished Brass	3-1/8" (80 mm)	1-9/16" (40 mm)

Minimum order: 1 each. All Hand Rail Fittings can be combined for quantity pricing.
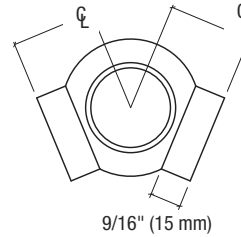
3-5/16" (84 MM) 135 DEGREE BALL TYPE SIDE OUTLET TEES FOR 2" (51 MM) THIN WALL TUBING

CAT. NO.	FINISH	"L" LENGTH	"C/L"
HR20BQBS	Brushed Stainless	3-5/8" (92 mm)	1-13/16" (46 mm)
HR20BQPS	Polished Stainless	3-5/8" (92 mm)	1-13/16" (46 mm)
HR20BQPB	Polished Brass	3-5/8" (92 mm)	1-13/16" (46 mm)

Minimum order: 1 each. All Hand Rail Fittings can be combined for quantity pricing.

CRL Ball Type Outlet Crosses

- Ready to Install
- 304 Grade Stainless or C260 Brass Alloy Standard
- Comes With Mounting Screws

9/16" (15 mm)

9/16" (15 mm)

9/16" (15 mm)

NOTE: Use Cat. No. 7649 Primer and Cat. No. 32629 Metal Contact Cement for a secure and permanent bond (see page 394B).

2-5/8" (66 MM) BALL TYPE SIDE OUTLET CROSSES FOR 1-1/2" (38 MM) THIN WALL TUBING

CAT. NO.	FINISH	"L" LENGTH	"C/L"
HR15BRBS	Brushed Stainless	3-1/8" (80 mm)	1-9/16" (40 mm)
HR15BRPS	Polished Stainless	3-1/8" (80 mm)	1-9/16" (40 mm)
HR15BRPB	Polished Brass	3-1/8" (80 mm)	1-9/16" (40 mm)

Minimum order: 1 each. All Hand Rail Fittings can be combined for quantity pricing.
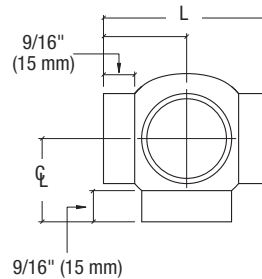
3-5/16" (84 MM) BALL TYPE SIDE OUTLET CROSSES FOR 2" (51 MM) THIN WALL TUBING

CAT. NO.	FINISH	"L" LENGTH	"C/L"
HR20BRBS	Brushed Stainless	3-5/8" (92 mm)	1-13/16" (46 mm)
HR20BRPS	Polished Stainless	3-5/8" (92 mm)	1-13/16" (46 mm)
HR20BRPB	Polished Brass	3-5/8" (92 mm)	1-13/16" (46 mm)

Minimum order: 1 each. All Hand Rail Fittings can be combined for quantity pricing.

CRL Flush Wall Mount Tees

- Ready to Install
- 304 Grade Stainless or C260 Brass Alloy Standard
- Comes With Mounting Screws

NOTE: Use Cat. No. 7649 Primer and Cat. No. 32629 Metal Contact Cement for a secure and permanent bond (see page 394B).

FLUSH WALL MOUNT TEES FOR 1-1/2" (38 MM) THIN WALL TUBING

CAT. NO.	FINISH	"D"	"W"	"C/L"
HR15UBS	Brushed Stainless	3" (76 mm)	2-1/4" (57 mm)	2-3/4" (70 mm)
HR15UPS	Polished Stainless	3" (76 mm)	2-1/4" (57 mm)	2-3/4" (70 mm)
HR15UPB	Polished Brass	3" (76 mm)	2-1/4" (57 mm)	2-3/4" (70 mm)

Minimum order: 1 each. All Hand Rail Fittings can be combined for quantity pricing.

FLUSH WALL MOUNT TEES FOR 2" (51 MM) THIN WALL TUBING

CAT. NO.	FINISH	"D"	"W"	"C/L"
HR20UBS	Brushed Stainless	4" (102 mm)	3-1/16" (77 mm)	3" (76 mm)
HR20UPS	Polished Stainless	4" (102 mm)	3-1/16" (77 mm)	3" (76 mm)
HR20UPB	Polished Brass	4" (102 mm)	3-1/16" (77 mm)	3" (76 mm)

Minimum order: 1 each. All Hand Rail Fittings can be combined for quantity pricing.

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CRL HRS HAND RAILING SYSTEMS

CRL Ball Type Inline Outlets

- Ready to Install
- 304 Grade Stainless or C260 Brass Alloy Standard
- Comes With Mounting Screws

9/16" (15 mm)

NOTE: Use Cat. No. 7649 Primer and Cat. No. 32629 Metal Contact Cement for a secure and permanent bond (see page 394B).

2-5/8" (66 MM) BALL TYPE INLINE OUTLETS FOR 1-1/2" (38 MM) THIN WALL LTUBING

CAT. NO.	FINISH	"L" LENGTH	"C/L"
HR15BABS	Brushed Stainless	3-1/8" (80 mm)	1-9/16" (40 mm)
HR15BAPS	Polished Stainless	3-1/8" (80 mm)	1-9/16" (40 mm)
HR15BAPB	Polished Brass	3-1/8" (80 mm)	1-9/16" (40 mm)

Minimum order: 1 each. All Hand Rail Fittings can be combined for quantity pricing.

3-5/16" (84 MM) BALL TYPE INLINE OUTLETS FOR 2" (51 MM) THIN WALL TUBING

CAT. NO.	FINISH	"L" LENGTH	"C/L"
HR20BABS	Brushed Stainless	3-5/8" (92 mm)	1-13/16" (46 mm)
HR20BAPS	Polished Stainless	3-5/8" (92 mm)	1-13/16" (46 mm)
HR20BAPB	Polished Brass	3-5/8" (92 mm)	1-13/16" (46 mm)

Minimum order: 1 each. All Hand Rail Fittings can be combined for quantity pricing.

CRL 90 Degree Ball Type Elbows

- Ready to Install
- 304 Grade Stainless or C260 Brass Alloy Standard
- Comes With Mounting Screws

9/16" (15 mm)
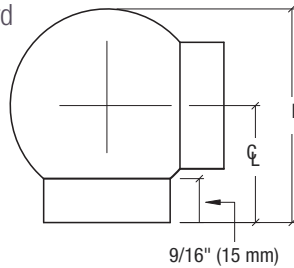
NOTE: Use Cat. No. 7649 Primer and Cat. No. 32629 Metal Contact Cement for a secure and permanent bond (see page 394B).

2-5/8" (66 MM) 90 DEGREE BALL TYPE ELBOWS FOR 1-1/2" (38 MM) THIN WALL TUBING

CAT. NO.	FINISH	"L" LENGTH	"C/L"
HR15BHBS	Brushed Stainless	2-7/8" (73 mm)	1-9/16" (40 mm)
HR15BHPS	Polished Stainless	2-7/8" (73 mm)	1-9/16" (40 mm)
HR15BHPB	Polished Brass	2-7/8" (73 mm)	1-9/16" (40 mm)

Minimum order: 1 each. All Hand Rail Fittings can be combined for quantity pricing.

3-5/16" (84 MM) 90 DEGREE BALL TYPE ELBOWS FOR 2" (51 MM) THIN WALL TUBING

CAT. NO.	FINISH	"L" LENGTH	"C/L"
HR20BHBS	Brushed Stainless	3-7/16" (88 mm)	1-13/16" (46 mm)
HR20BHPS	Polished Stainless	3-7/16" (88 mm)	1-13/16" (46 mm)
HR20BHPB	Polished Brass	3-7/16" (88 mm)	1-13/16" (46 mm)

Minimum order: 1 each. All Hand Rail Fittings can be combined for quantity pricing.

CRL 135 Degree Ball Type Elbows

- Ready to Install
- 304 Grade Stainless or C260 Brass Alloy Standard
- Comes With Mounting Screws

9/16" (15 mm)

NOTE: Use Cat. No. 7649 Primer and Cat. No. 32629 Metal Contact Cement for a secure and permanent bond (see page 394B).
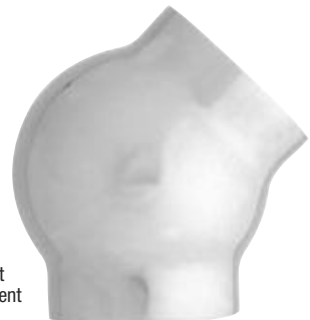
2-5/8" (66 MM) 135 DEGREE BALL TYPE ELBOWS FOR 1-1/2" (38 MM) THIN WALL TUBING

CAT. NO.	FINISH	"C/L"
HR15BMBS	Brushed Stainless	1-9/16" (40 mm)
HR15BMPS	Polished Stainless	1-9/16" (40 mm)
HR15BMPB	Polished Brass	1-9/16" (40 mm)

Minimum order: 1 each. All Hand Rail Fittings can be combined for quantity pricing.

3-5/16" (84 MM) 135 DEGREE BALL TYPE ELBOWS FOR 2" (51 MM) THIN WALL TUBING

CAT. NO.	FINISH	"C/L"
HR20BMBS	Brushed Stainless	1-13/16" (46 mm)
HR20BMPS	Brushed Stainless	1-13/16" (46 mm)
HR20BMPB	Polished Brass	1-13/16" (46 mm)

Minimum order: 1 each. All Hand Rail Fittings can be combined for quantity pricing.

CRL Ball Type Crosses

- Ready to Install
- 304 Grade Stainless or C260 Brass Alloy Standard
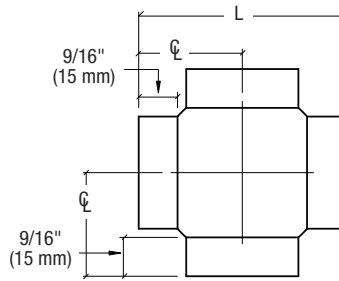
9/16" (15 mm)

L

C/L

C/L

9/16" (15 mm)

NOTE: Use Cat. No. 7649 Primer and Cat. No. 32629 Metal Contact Cement for a secure and permanent bond (see page 394B).

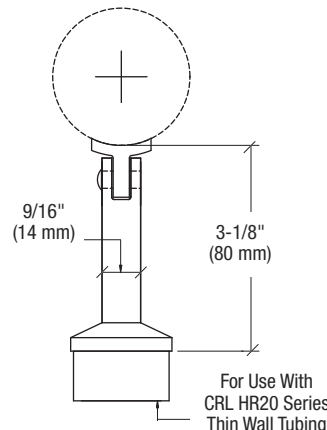### 2-5/8" (66 MM) BALL TYPE CROSSES FOR 1-1/2" (38 MM) THIN WALL TUBING

CAT. NO.	FINISH	"L"		"C/L"
HR15BNBS	Brushed Stainless	3-1/8" (80 mm)		1-9/16" (40 mm)
HR15BNPS	Polished Stainless	3-1/8" (80 mm)		1-9/16" (40 mm)
HR15BNPB	Polished Brass	3-1/8" (80 mm)		1-9/16" (40 mm)

Minimum order: 1 each. All Hand Rail Fittings can be combined for quantity pricing.

3-5/16" (84 MM) BALL TYPE CROSSES FOR 2" (51 MM) THIN WALL TUBING

CAT. NO.	FINISH	"L"		"C/L"
HR20BNBS	Brushed Stainless	3-5/8" (92 mm)		1-13/16" (46 mm)
HR20BNPS	Polished Stainless	3-5/8" (92 mm)		1-13/16" (46 mm)
HR20BNPB	Polished Brass	3-5/8" (92 mm)		1-13/16" (46 mm)

Minimum order: 1 each. All Hand Rail Fittings can be combined for quantity pricing.

CRL 135 Degree Ball Type Side Outlet Elbows

- Ready to Install
- 304 Grade Stainless or C260 Brass Alloy Standard

9/16" (15 mm)

9/16" (15 mm)

L

9/16" (15 mm)
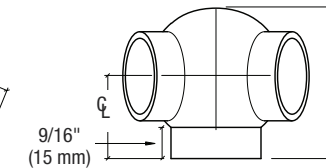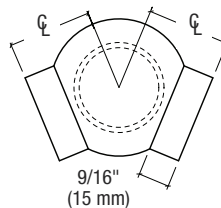
NOTE: Use Cat. No. 7649 Primer and Cat. No. 32629 Metal Contact Cement for a secure and permanent bond (see page 394B).

2-5/8" (66 MM) 135 DEGREE BALL TYPE SIDE OUTLET ELBOWS FOR 1-1/2" (38 MM) THIN WALL TUBING

CAT. NO.	FINISH	"L"		"C/L"
HR15BPBS	Brushed Stainless	2-7/8" (73 mm		1-9/16" (40 mm)
HR15BPPS	Polished Stainless	2-7/8" (73 mm		1-9/16" (40 mm)
HR15BPPB	Polished Brass	2-7/8" (73 mm		1-9/16" (40 mm)

Minimum order: 1 each. All Hand Rail Fittings can be combined for quantity pricing.

3-5/16" (84 MM) 135 DEGREE BALL TYPE SIDE OUTLET ELBOWS FOR 2" (51 MM) THIN WALL TUBING

CAT. NO.	FINISH	"L"		"C/L"
HR20BPBS	Brushed Stainless	3-7/16" (88 mm)		1-13/16" (46 mm)
HR20BPPS	Polished Stainless	3-7/16" (88 mm)		1-13/16" (46 mm)
HR20BPPB	Polished Brass	3-7/16" (88 mm)		1-13/16" (46 mm)

Minimum order: 1 each. All Hand Rail Fittings can be combined for quantity pricing.

CRL Ball Type Angle Collars

- Ready to Install
- 304 Grade Stainless or C260 Brass Alloy Standard
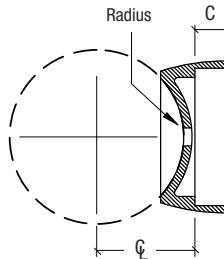
Radius

C

C/L

NOTE: Use Cat. No. 7649 Primer and Cat. No. 32629 Metal Contact Cement for a secure and permanent bond (see page 394B).

2-5/8" (66 MM) BALL TYPE ANGLE COLLARS FOR 1-1/2" (38 MM) THIN WALL TUBING

CAT. NO.	FINISH	"C"		"C/L"
HR15ACBS	Brushed Stainless	3/8" (10 mm)		1-1/2" (38 mm)
HR15ACPS	Polished Stainless	3/8" (10 mm)		1-1/2" (38 mm)
HR15ACPB	Polished Brass	3/8" (10 mm)		1-1/2" (38 mm)

Minimum order: 1 each. All Hand Rail Fittings can be combined for quantity pricing.

3-5/16" (84 MM) BALL TYPE ANGLE COLLARS FOR 2" (51 MM) THIN WALL TUBING

CAT. NO.	FINISH	"C"		"C/L"
HR20ACBS	Brushed Stainless	1/2" (13 mm)		2" (51 mm)
HR20ACPS	Polished Stainless	1/2" (13 mm)		2" (51 mm)
HR20ACPB	Polished Brass	1/2" (13 mm)		2" (51 mm)

Minimum order: 1 each. All Hand Rail Fittings can be combined for quantity pricing.

CRL Collar Attaching Cap Bolt and Riv-Nut

CAT. NO.	DESCRIPTION
SHCS14X1	1/4"-20 x 1" Stainless Steel Socket Head Cap Bolt
RN1420	1/4"-20 Thread Riv-Nut

Minimum order: 10 each. Must be ordered in increments of 10. RN1420 requires a 25/64" (10 mm) diameter hole.

Inserted
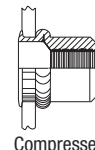
Compressed

CAT. NO. SHCS14X1

CAT. NO. RN1420

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CRL Floor Sockets With Cap

- Ready to Install
- 304 Grade Stainless or C260 Brass Alloy Standard

Cap
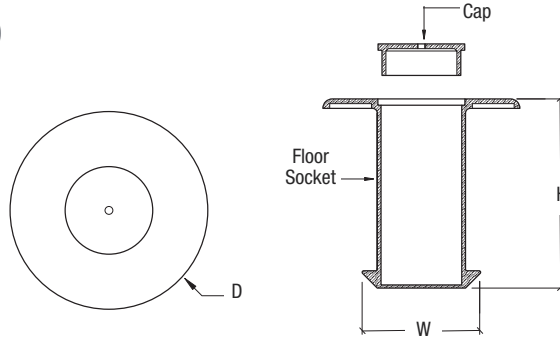
Floor Socket

FLOOR SOCKET WITH CAP FOR 2" (51 MM) THIN WALL TUBING

CAT. NO.	FINISH	"D"	"H"	"W"
HR20FSBS	Brushed Stainless	5" (125 mm)	4-3/4" (120 mm)	3-1/4" (83 mm)
HR20FSPS	Polished Stainless	5" (125 mm)	4-3/4" (120 mm)	3-1/4" (83 mm)
HR20FSPB	Polished Brass	5" (125 mm)	4-3/4" (120 mm)	3-1/4" (83 mm)

Minimum order: 1 each. All Hand Rail Fittings can be combined for quantity pricing.

CRL 45 Degree Angle Flanges

- Ready to Install
- 304 Grade Stainless or C260 Brass Alloy Standard
- Mounting Screws Included
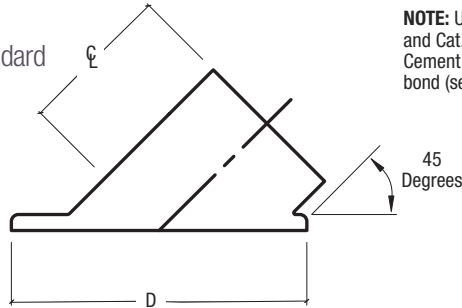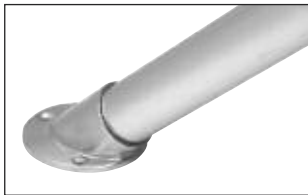
45 Degrees

NOTE: Use Cat. No. 7649 Primer and Cat. No. 32629 Metal Contact Cement for a secure and permanent bond (see page 394B).

45 DEGREE ANGLE FLANGES FOR 1-1/2" (38 MM) THIN WALL TUBING

CAT. NO.	FINISH	"D"	"C/L"
HR15AFBS	Brushed Stainless	3-1/8" (79 mm)	1-11/16" (42 mm)
HR15AFPS	Polished Stainless	3-1/8" (79 mm)	1-11/16" (42 mm)
HR15AFPB	Polished Brass	3-1/8" (79 mm)	1-11/16" (42 mm)

Minimum order: 1 each. All Hand Rail Fittings can be combined for quantity pricing.

45 DEGREE ANGLE FLANGES FOR 2" (51 MM) THIN WALL TUBING

CAT. NO.	FINISH	"D"	"C/L"
HR20AFBS	Brushed Stainless	5" (127 mm)	2-7/16" (63 mm)
HR20AFPS	Polished Stainless	5" (127 mm)	2-7/16" (63 mm)
HR20AFPB	Polished Brass	5" (127 mm)	2-7/16" (63 mm)

Minimum order: 1 each. All Hand Rail Fittings can be combined for quantity pricing.

CRL Adjustable Flanges

- Ready to Install
- 304 Grade Stainless or C260 Brass Alloy Standard
- Mounting Screws Included
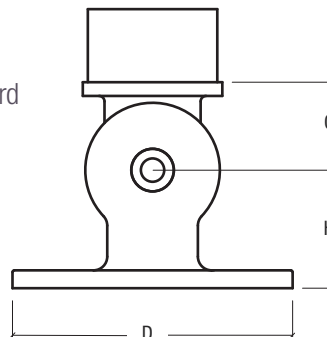
NOTE: Use Cat. No. 7649 Primer and Cat. No. 32629 Metal Contact Cement for a secure and permanent bond (see page 394B).

ADJUSTABLE FLANGES FOR 1-1/2" (38 MM) THIN WALL TUBING

CAT. NO.	FINISH	"D"	"H"	"C/L"
HR15PFBS	Brushed Stainless	3" (76 mm)	1-1/4" (32 mm)	15/16" (24 mm)
HR15PFPS	Polished Stainless	3" (76 mm)	1-1/4" (32 mm)	15/16" (24 mm)
HR15PFPB	Polished Brass	3" (76 mm)	1-1/4" (32 mm)	15/16" (24 mm)

Minimum order: 1 each. All Hand Rail Fittings can be combined for quantity pricing.

ADJUSTABLE FLANGES FOR 2" (51 MM) THIN WALL TUBING

CAT. NO.	FINISH	"D"	"H"	"C/L"
HR20PFBS	Brushed Stainless	4" (102 mm)	1-11/16" (43 mm)	1-1/4" (32 mm)
HR20PFPS	Polished Stainless	4" (102 mm)	1-11/16" (43 mm)	1-1/4" (32 mm)
HR20PFPB	Polished Brass	4" (102 mm)	1-11/16" (43 mm)	1-1/4" (32 mm)

Minimum order: 1 each. All Hand Rail Fittings can be combined for quantity pricing.

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CRL Full Flanges

- Ready to Install
- 304 Grade Stainless or C260 Brass Alloy Standard
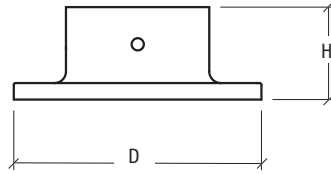
NOTE: Use Cat. No. 7649 Primer and Cat. No. 32629 Metal Contact Cement for a secure and permanent bond (see page 394B).

FULL FLANGES FOR 1-1/2" (38 MM) THIN WALL TUBING

CAT. NO.	FINISH	"D" DIAMETER	"H"
HR15YBS	Brushed Stainless	2-15/16" (75 mm)	1-1/8" (28 mm)
HR15YPS	Polished Stainless	2-15/16" (75 mm)	1-1/8" (28 mm)
HR15YPB	Polished Brass	2-15/16" (75 mm)	1-1/8" (28 mm)

Minimum order: 1 each. All Hand Rail Fittings can be combined for quantity pricing.
Comes with #12 x 2" (51 mm) Flat Head Phillips Wood Mounting Screws.

FULL FLANGES FOR 2" (51 MM) THIN WALL TUBING

CAT. NO.	FINISH	"D" DIAMETER	"H"
HR20YBS	Brushed Stainless	3-15/16" (100 mm)	1-3/16" (30 mm)
HR20YPS	Polished Stainless	3-15/16" (100 mm)	1-3/16" (30 mm)
HR20YPB	Polished Brass	3-15/16" (100 mm)	1-3/16" (30 mm)

Minimum order: 1 each. All Hand Rail Fittings can be combined for quantity pricing.
Comes with #12 x 2" (51 mm) Flat Head Phillips Wood Mounting Screws.

CRL Cut Flanges

- Ready to Install
- 304 Grade Stainless or C260 Brass Alloy Standard
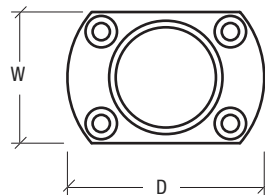
NOTE: Use Cat. No. 7649 Primer and Cat. No. 32629 Metal Contact Cement for a secure and permanent bond (see page 394B).
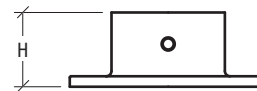
CUT FLANGES FOR 1-1/2" (38 MM) THIN WALL TUBING

CAT. NO.	FINISH	"D"	"W"	"H"
HR15ZBS	Brushed Stainless	2-15/16" (75 mm)	2" (51 mm)	1-1/8" (28 mm)
HR15ZPS	Polished Stainless	2-15/16" (75 mm)	2" (51 mm)	1-1/8" (28 mm)
HR15ZPB	Polished Brass	2-15/16" (75 mm)	2" (51 mm)	1-1/8" (28 mm)

Minimum order: 1 each. All Hand Rail Fittings can be combined for quantity pricing.
Comes with #12 x 2" (51 mm) Flat Head Phillips Wood Mounting Screws.

CUT FLANGES FOR 2" (51 MM) THIN WALL TUBING

CAT. NO.	FINISH	"D"	"W"	"H"
HR20ZBS	Brushed Stainless	4" (102 mm)	2-5/8" (67 mm)	1-1/8" (28 mm)
HR20ZPS	Polished Stainless	4" (102 mm)	2-5/8" (67 mm)	1-1/8" (28 mm)
HR20ZPB	Polished Brass	4" (102 mm)	2-5/8" (67 mm)	1-1/8" (28 mm)

Minimum order: 1 each. All Hand Rail Fittings can be combined for quantity pricing.
Comes with #12 x 2" (51 mm) Flat Head Phillips Wood Mounting Screws.

CRL Steel Flanges and Canopies

- Ready to Install
- 304 Grade Stainless or C260 Brass Alloy Standard
- Available as a Complete Kit or the Canopy Only

WARNING: Not designed for Guard Rail Post Applications
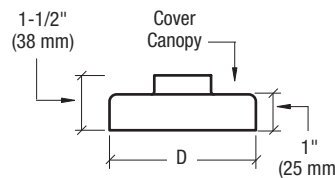
1-25/64" (35 mm) = HR15X
1-57/64" (48 mm) = HR20X

Internal Steel Stanchion

Thread Connection

Steel Base Flange

12" (305 mm)

3/8" (10 mm)

Canopy slips over Steel Flange

1-1/2" (38 mm)

Cover Canopy

1" (25 mm)

NOTE: Use Cat. No. 7649 Primer and Cat. No. 32629 Metal Contact Cement for a secure and permanent bond (see page 394B).

STEEL FLANGES AND CANOPIES FOR 1-1/2" (38 MM) THIN WALL TUBING

KIT CAT. NO.	CANOPY ONLY CAT. NO.	FINISH	"D" DIAMETER
HR15XBS	HR15XCBS	Brushed Stainless	4-3/16" (106 mm)
HR15XPS	HR15XCPS	Polished Stainless	4-3/16" (106 mm)
HR15XPB	HR15XCPB	Polished Brass	4-3/16" (106 mm)

Minimum order: 1 each. All Hand Rail Fittings can be combined for quantity pricing.
Comes with #12 x 2" (51 mm) Flat Head Phillips Wood Mounting Screws.

STEEL FLANGES AND CANOPIES FOR 2" (51 MM) THIN WALL TUBING

KIT CAT. NO.	CANOPY ONLY CAT. NO.	FINISH	"D" DIAMETER
HR20XBS	HR20XCBS	Brushed Stainless	5" (127 mm)
HR20XPS	HR20XCPS	Polished Stainless	5" (127 mm)
HR20XPB	HR20XCPB	Polished Brass	5" (127 mm)

Minimum order: 1 each. All Hand Rail Fittings can be combined for quantity pricing.
Comes with #12 x 2" (51 mm) Flat Head Phillips Wood Mounting Screws.

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CRL US ALUMINUM

CRL Round Concealed Mounting Lugs

• Attaches to Substrate With All Thread or Hanger Bolt (Sold Separately)
• Secures to Tubing With Metal Contact Cement

Tubing Slips Over Lug

5/16"-18 UNC - 1B
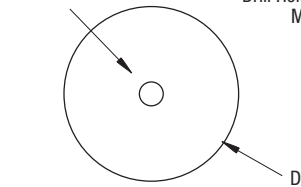
Thread Clear 1" (25 mm)
Drill Hole 1.5" (38 mm)
Maximum Depth
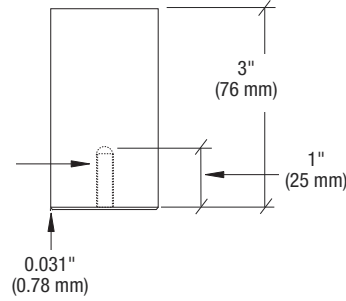
3"
(76 mm)

1"
(25 mm)

0.031"
(0.78 mm)

D

NOTE: Use Cat. No. 7649 Primer and Cat. No. 32629 Metal Contact Cement for a secure and permanent bond (see page 394B).

ROUND CONCEALED MOUNTING LUG FOR 1-1/2" (38 MM) THIN WALL TUBING

CAT. NO.	FINISH	LENGTH	"D" DIAMETER
HR15CBM	Mill Aluminum	3" (76 mm)	1.38 (35 mm)

Minimum order: 1 each. All Hand Rail Fittings can be combined for quantity pricing.

ROUND CONCEALED MOUNTING LUG FOR 2" (51 MM) THIN WALL TUBING

CAT. NO.	FINISH	LENGTH	"D" DIAMETER
HR20CBM	Mill Aluminum	3" (76 mm)	1.88 (48 mm)

Minimum order: 1 each. All Hand Rail Fittings can be combined for quantity pricing.

CRL Perpendicular Collars
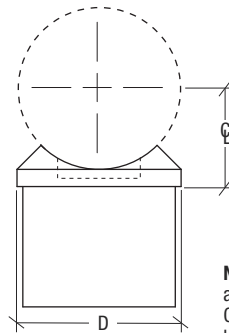
• Ready to Install
• 304 Grade Stainless or C260 Brass Alloy Standard

C/L

D

NOTE: Use Cat. No. 7649 Primer and Cat. No. 32629 Metal Contact Cement for a secure and permanent bond (see page 394B).

PERPENDICULAR COLLARS FOR 1-1/2" (38 MM) THIN WALL TUBING

CAT. NO.	FINISH	"D" DIAMETER	"C/L"
HR15PCBS	Brushed Stainless	1-1/2" (38 mm)	7/8" (22 mm)
HR15PCPS	Polished Stainless	1-1/2" (38 mm)	7/8" (22 mm)
HR15PCPB	Polished Brass	1-1/2" (38 mm)	7/8" (22 mm)

Minimum order: 1 each. All Hand Rail Fittings can be combined for quantity pricing.

PERPENDICULAR COLLARS FOR 2" (51 MM) THIN WALL TUBING

CAT. NO.	FINISH	"D" DIAMETER	"C/L"
HR20PCBS	Brushed Stainless	2" (51 mm)	1-1/4" (32 mm)
HR20PCPS	Polished Stainless	2" (51 mm)	1-1/4" (32 mm)
HR20PCPB	Polished Brass	2" (51 mm)	1-1/4" (32 mm)

Minimum order: 1 each. All Hand Rail Fittings can be combined for quantity pricing.

CRL Coped Perpendicular Collars

• Ready to Install
• 304 Grade Stainless or C260 Brass Alloy Standard

C/L

D
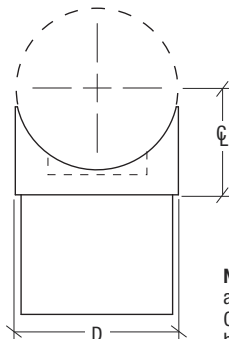
NOTE: Use Cat. No. 7649 Primer and Cat. No. 32629 Metal Contact Cement for a secure and permanent bond (see page 394B).

COPED PERPENDICULAR COLLARS FOR 1-1/2" (38 MM) THIN WALL TUBING

CAT. NO.	FINISH	"D" DIAMETER	"C/L"
HR15CCBS	Brushed Stainless	1-1/2" (38 mm)	1" (25 mm)
HR15CCPS	Polished Stainless	1-1/2" (38 mm)	1" (25 mm)
HR15CCPB	Polished Brass	1-1/2" (38 mm)	1" (25 mm)

Minimum order: 1 each. All Hand Rail Fittings can be combined for quantity pricing.

COPED PERPENDICULAR COLLARS FOR 2" (51 MM) THIN WALL TUBING

CAT. NO.	FINISH	"D" DIAMETER	"C/L"
HR20CCBS	Brushed Stainless	2" (51 mm)	1-1/4" (32 mm)
HR20CCPS	Polished Stainless	2" (51 mm)	1-1/4" (32 mm)
HR20CCPB	Polished Brass	2" (51 mm)	1-1/4" (32 mm)

Minimum order: 1 each. All Hand Rail Fittings can be combined for quantity pricing.

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CRL US ALUMINUM

CRL Adjustable Saddles

- Ready to Install
- Three Architectural Finishes
- Comes With Mounting Screws

NOTE: Use Cat. No. 7649 Primer and Cat. No. 32629 Metal Contact Cement for a secure and permanent bond (see page 394B).
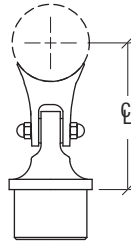
ADJUSTABLE SADDLES FOR 1-1/2" (38 MM) THIN WALL TUBING

CAT. NO.	GRADE	FINISH	"C/L"
HR15VABS	316	Brushed Stainless	2-11/16" (68 mm)
HR15VAPS	316	Polished Stainless	2-11/16" (68 mm)
HR15VAPB	C260	Polished Brass	2-11/16" (68 mm)

Minimum order: 1 each. All Hand Rail Fittings can be combined for quantity pricing.

ADJUSTABLE SADDLES FOR 2" (51 MM) THIN WALL TUBING

CAT. NO.	GRADE	FINISH	"C/L"
HR20VABS	316	Brushed Stainless	3-1/8" (79 mm)
HR20VAPS	316	Polished Stainless	3-1/8" (79 mm)
HR20VAPB	C260	Polished Brass	3-1/8" (79 mm)

Minimum order: 1 each. All Hand Rail Fittings can be combined for quantity pricing.

CRL Straight Saddles

- Ready to Install
- Three Architectural Finishes
- Comes With Mounting Screws

NOTE: Use Cat. No. 7649 Primer and Cat. No. 32629 Metal Contact Cement for a secure and permanent bond (see page 394B).

7/16" (11 mm)
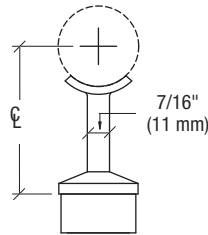
STRAIGHT SADDLES FOR 1-1/2" (38 MM) THIN WALL TUBING

CAT. NO.	GRADE	FINISH	"C/L"
HR15VSBS	316	Brushed Stainless	2-3/4" (70 mm)
HR15VSPS	316	Polished Stainless	2-3/4" (70 mm)
HR15VSPB	C260	Polished Brass	2-3/4" (70 mm)

Minimum order: 1 each. All Hand Rail Fittings can be combined for quantity pricing.

STRAIGHT SADDLES FOR 2" (51 MM) THIN WALL TUBING

CAT. NO.	GRADE	FINISH	"C/L"
HR20VSBS	316	Brushed Stainless	3-15/16" (100 mm)
HR20VSPS	316	Polished Stainless	3-15/16" (100 mm)
HR20VSPB	C260	Polished Brass	3-15/16" (100 mm)

Minimum order: 1 each. All Hand Rail Fittings can be combined for quantity pricing.

CRL Post Mounted Adjustable Flat Saddle Hand Rail Supports

- Designed to Attach to Square Style Hand Rails
- Two Architectural Finishes
- Ready to Install in 2" (51 mm) Diameter Posts
- Comes With Mounting Screws

9/16" (14 mm)

3-1/4" (83 mm)

Two Flat Head Phillips Self-Drilling 8-18 x 3/4" (19 mm) Long Stainless Steel Screws Included

NOTE: Use Cat. No. 7649 Primer and Cat. No. 32629 Metal Contact Cement for a secure and permanent bond (see page 394B).

CAT. NO.	GRADE	FINISH
HR20ASBS	316	Brushed Stainless
HR20ASPS	316	Polished Stainless

Minimum order: 1 each. All Hand Rail Fittings can be combined for quantity pricing.

For Use With CRL HR20 Series Thin Wall Tubing
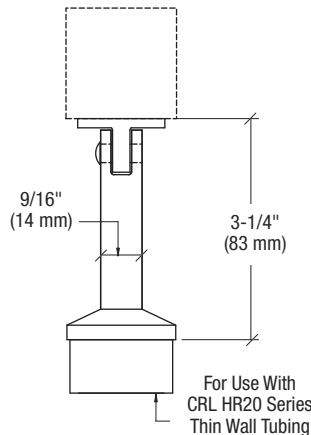
CRL Post Mounted Adjustable Radius Saddle Hand Rail Supports

- Designed to Attach to Round Style Hand Rails 1-1/2" to 2" (38 mm to 51 mm) in Diameter
- Comes With Mounting Screws
- Two Architectural Finishes
- Ready to Install in 2" (51 mm) Diameter Posts
- Comes With Mounting Screws

9/16" (14 mm)

3-1/8" (80 mm)

Two Flat Head Phillips Self-Drilling 8-18 x 3/4" (19 mm) Long Stainless Steel Screws Included

NOTE: Use Cat. No. 7649 Primer and Cat. No. 32629 Metal Contact Cement for a secure and permanent bond (see page 394B).

CAT. NO.	GRADE	FINISH
HR20ARBS	316	Brushed Stainless
HR20ARPS	316	Polished Stainless

Minimum order: 1 each. All Hand Rail Fittings can be combined for quantity pricing.

For Use With CRL HR20 Series Thin Wall Tubing

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CRL US ALUMINUM

CRL Loctite® Metal Contact Cement

- The Strength of an Epoxy and the Speed of an Instant Adhesive
- Permanently Bonds Cap Rails, Hand Rails, and Their Accessories With Superior Strength Holding Power Up to 4,900 psi
- Offers Handling Strength in 60 Seconds, Full Cure in 24 Hours

SPEC. DATA ONLINE

SDS ONLINE

To permanently bond Rails and their accessories we suggest this strong adhesive system from Loctite®, with two different Primers to best suit your assembly time frame.

Use Cat. No. 7649 Primer to activate in 60 seconds, 60% of full strength in two minutes, and a full cure in 24 hours. When a longer curing time is needed use Cat. No. 7075 Primer to activate in five minutes, 60% of full strength in ten minutes, and a full cure in 24 hours.

For best performance surfaces should be clean and free of grease. Simply apply a generous amount of Primer to both of the bond surfaces and apply Adhesive to one of the surfaces. Position parts quickly and exactly as Adhesive begins to work immediately. Excess Adhesive outside joined surfaces can be wiped away with an organic solvent, such as our Cat. No. CRL2032 General Purpose Solvent and Adhesive Cleaner.

CAT. NO. 32629	CAT. NO. 7649	CAT. NO. 7075
Cement	60 Second Primer	5 Minute Primer

CAT. NO.	DESCRIPTION	ACTIVATION	CONTENTS
32629	Metal Contact Cement	---	1.69 Fl. Oz. (50 ml)
7649*	Primer for Metal Contact Cement	60 Seconds	1.75 Fl. Oz. (52 ml)
7075*	Primer for Metal Contact Cement	5 Minutes	4.5 Oz. (128 g)

Minimum order: 1 each. * Primers can not ship air freight.
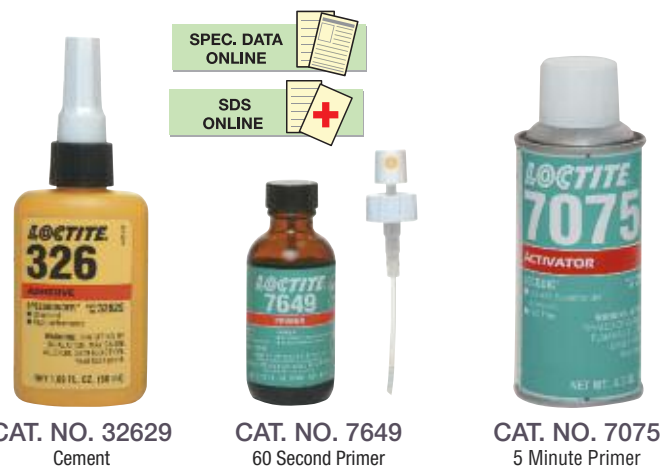
CRL Loctite® Threadlocker

- Locks and Seals Against Loosening
- Protects Threads Against Corrosion

SPEC. DATA ONLINE

SDS ONLINE

- Choose Liquid or Semi-Solid Stick

Loctite® Threadlocker eliminates the need for stocking costly lock nuts and lock washers. This blue-colored sealer locks standard nuts in place and keeps them from loosening due to vibration. The medium strength formula allows nuts to be removed for disassembly using normal hand tools, and also helps protect threads from corrosion.
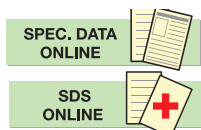
CAT. NO.	CONTENTS	TYPE
24221	.34 Fl. Oz. (10 ml)	Liquid
24231	1.69 Fl. Oz. (50 ml)	Liquid
37684	.32 Oz. (9 g)	Stick
37087	.67 Oz. (19 g)	Stick

Minimum order: 1 each.

Loctite is a registered trademark of Henkel Corporation.

CRL Loctite® Poxy-Pak™ Clear Two-Part Epoxy

- Pre-Measured Resin and Hardener for Easy Application, Consistent Strength
- Resealable - No Waste
- Bonds Virtually Any Material

SPEC. DATA ONLINE

SDS ONLINE

CRL Loctite® Poxy-Pak™ Clear Adhesive is a rapid cure two-part epoxy that reaches handling strength in about five minutes, and fully cures in 45 to 60 minutes. Poxy-Pak™ is easily dispensed from the two-cylinder syringe in any amount you need. It bonds metals, ceramics, concrete, wood, glass, and most plastics. It's inexpensive to use, as the unused portion can be re-sealed and saved. May be drilled, tapped, sanded, machined, and painted after it cures. Poxy-Pak™ cures at room temperature, and can withstand temperatures up to 300°F (149°C).

CAT. NO.	CONTENTS
81120	1 Fl. Oz. (29 ml)

Minimum order: 1 each.

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394B

TOLL Phone: (800) 421-6144
FREE Fax: (800) 262-3299
From Anywhere in the U.S. or Canada

CRL US ALUMINUM

CRL Loctite® Superbonder® Adhesive

- Bonds Instantly
- No Mixing
- No Mess

SPEC. DATA ONLINE

SDS ONLINE

NO AIR FREIGHT

CAT. NO. 49504
0.1 Oz. (3 g)

CAT. NO. 49550
1 Oz. (28.4 g)

CRL Loctite® Superbonder® Adhesive sets in seconds to form a permanent transparent bond. It's effective on metal, rubber, aluminum, ceramics, vinyl, alloys, plastics, and other non-porous surfaces. Comes ready to use, with no mixing required.

CAT. NO.	NET WEIGHT
49504	0.1 Oz. (3 g)
49550	1 Oz. (28.4 g)

Minimum order: 1 each.

CRL Loctite® Prism® Instant Adhesives

- Fast Curing Gel Bonds Non-Porous and Porous Surfaces
- Highly Resistant to Solvents, Weathering, and Temperature Extremes

SPEC. DATA ONLINE

SDS ONLINE

NO AIR FREIGHT

CAT. NO. 45404
High Viscosity

CAT. NO. 40104
Medium Viscosity

CAT. NO. 40140
Medium Viscosity

Use CRL Loctite® Prism® in places where you could never use instant adhesives before. Prism® goes beyond typical cyanoacrylate adhesives to perform on wood, leather, ceramic, paper, foam, rubber, fabric, metal, plastic or elastomeric materials. Prism® also works on acidic surfaces, such as freshly plated or coated metal parts.

CAT. NO.	DESCRIPTION	NET WEIGHT
45404	High Viscosity Gel	0.1 Oz. (3 g)
40104	Medium Viscosity Gel	0.1 Oz. (3 g)
40140	Medium Viscosity Gel	0.7 Oz. (20 g)

Minimum order: 1 each.

CRL Titebond® III Wood Glue

SDS ONLINE
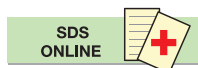
- Waterproof Formula
- Designed for Interior and Exterior Applications
- Assembly Time: 10 Minutes
- Clamping Time: 30 Minutes
- Set Time: 24 Hours

Use CRL Titebond® III Wood Glue when joining Wood Cap Rails, mitered Wood Hand Rail Corners, and installing Wood End Caps. This waterproof, water based formula passes Type 1 water-resistance specifications and conforms to ASTM D-4236. Unaffected by finishes, Titebond® Glue will fully set up within 24 hours, and can be used for interior and exterior applications.

CAT. NO.	CONTENTS
CRLWG1	8 Oz. (236 ml)

Minimum order: 1 each.

Loctite, Superbonder, and Prism are registered trademarks of Henkel Corporation.
Titebond III is a registered trademark of Franklin International Corp.

CRL Wood Biscuits
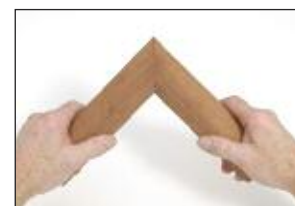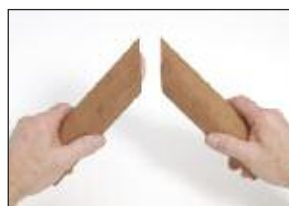
- Made From Compressed Crosshatched Beechwood
- Provides Excellent Holding Power
- Installs With Wood Glue

Use CRL Wood Biscuits when joining Wood Cap Rails and mitered Wood Hand Rail Corners. Die-cut from beechwood blanks, these Wood Biscuits are compressed for strength and crosshatched for better glue bonding. When used with water based glue, the 1/8" (3 mm) thick Biscuit swells within the joint to provide excellent holding power.

CAT. NO.	"W" WIDTH	"L" LENGTH	QTY/PK
CRLWB1	5/8" (16 mm)	1-11/16" (43 mm)	25 Biscuits

Minimum order: 1 pack.

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CRL US ALUMINUM

CRL Adjustable Wall Protectors

- Great for Elevators, Hallways, Corridors or Other Areas Where Walls Require Protection
- Easy to Assemble Using Component Parts
- Two Available Finishes
- Custom Powder Coated Finishes Also Available
- Two Styles of Protective End Caps

CRL Wall Protectors were designed as a quick and simple way to protect walls in areas that are subject to heavy pedestrian traffic, along with potential impact from cart and gurney activity. The extruded aluminum Wall Protector Rail comes in two standard architectural finishes, and uses a 3/4" (19 mm) diameter Slide Fitting that is fully adjustable horizontally for ease of installation.

2" (51 mm) Projection

The easy to assemble parts make for quick and professional results on the job site. Simply attach the Mounting Stud to the substrate with your choice of Attachment Fasteners (see below). Then insert the Slide Fitting into the Mounting Stud and tighten the set screw. In just a few easy steps you can install a complete assembly.
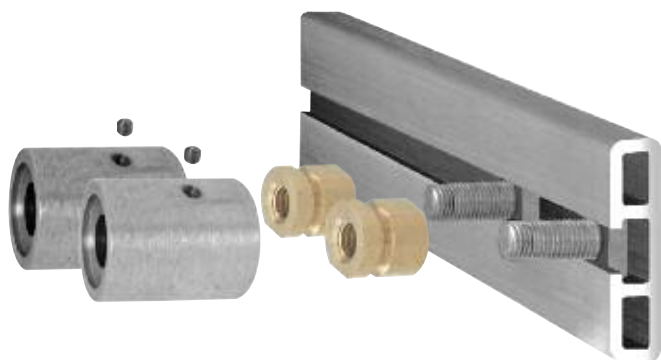
Maximum spacing between Mounting Studs should not exceed 36" (914 mm).
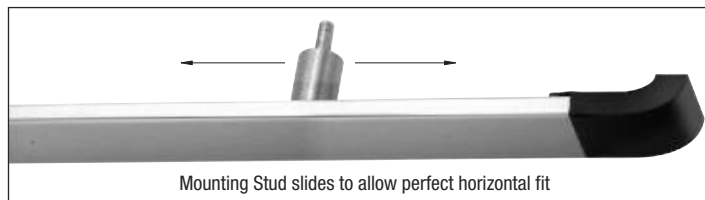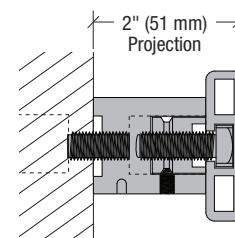
Mounting Stud slides to allow perfect horizontal fit

CRL Extruded Aluminum Wall Protector Rails

1/2" (13 mm)
2" (51 mm)

- Two Finishes Available

CAT. NO.	FINISH	STOCK LENGTH
WPR2BA	Buffed Brite Anodized	12'-2" (3.7 m)
WPR2BSH	Brushed Stainless Anodized	12'-2" (3.7 m)

Minimum order: 1 each. Stock lengths longer than 108" (2.74 m) must ship common carrier, unless you request we cut them for U.P.S. A Cutting Charge will apply. Finishes can be combined for quantity pricing.
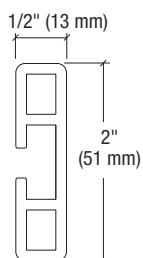
CRL Mounting Stud and Slide Fitting Kit

- Sold as a Complete Package (Except Mounting Stud Fasteners)
- Finishes to Match Protector Rails

Square Head Bolt

Set Screw

Slide Fitting

Mounting Stud

CAT. NO.	FOR USE WITH
WPR2MBA	Buffed Brite Anodized Rail
WPR2MBSH	Brushed Stainless Anodized Rail

Minimum order: 1 each. Finishes can be combined for quantity pricing.

CRL Mounting Stud Fasteners

3/8"-16 Concrete Anchor   3/8"-16 Allen Screw   3/8"-16 Hanger Bolt

CRL Mounting Stud Fasteners for Wall Protectors are stainless steel, with a 3/8"-16 thread size.

CAT. NO.	DESCRIPTION	THREAD SIZE	LENGTH
CA1222	Concrete Anchor	3/8"-16	2-1/4" (57 mm)
AS38112	Allen Screw	3/8"-16	1-1/2" (38 mm)
HB383S	Hanger Bolt	3/8"-16	3" (76 mm)

Minimum order: 1 each for Anchors or Bolts; 10 each for Allen Screws.

CRL Flush End Cap

CAT. NO.
WPEC1BL

CRL Return End Cap

CAT. NO.
WPEC2BL

CAT. NO.	DESCRIPTION	MATERIAL
WPEC1BL	Flush End Cap	Black Plastic
WPEC2BL	Return End Cap	Black Plastic

Minimum order: 1 each. Supplied with self-drilling mounting screws.

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CRL
US ALUMINUM

Aluminum Railing Systems

ACRS Aluminum Component
Railing System

ARS Aluminum
Railing System

ARS Quick Connect
Hand Rail System

Cable Post Kits

Corners and Connectors

Custom Water Jet and
Laser Cut Infill Panels

Expanding Cements

Fascia Mount Brackets MODEL **NEW!**

Fascia Mount Post Kits MODEL **NEW!**

Hand Rail Tubing

Picket Panels

Post Kits and Post Caps

Post Mounted Lighting

Rail Connecting Blocks

"Rail Glass" **NEW!**

Stainless Steel Cable Kits
and Hardware

Stanchions (Core and
Surface Mount)

Standard Cast Infills

Top Rails for Aluminum
Railing Systems

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These products and more can be found in this catalog section.
On the top and bottom of each page are direct search instructions
for viewing them on our web site. You can also enter the catalog
number into the Search Box for a direct link to the product and
More Choices in that category. To view **More Choices**, simply
click on the red and white icon to be taken to a larger selection.

MORE **CHOICES**
crlaurence.com
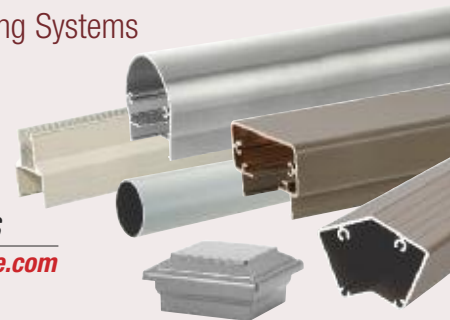
CRL ARS 100 Series Aluminum Railing System

PAGES 397B-414B

- For Straight Runs and Stairways
- Glass Infill Panel Options
- Available With Decorative Cast Infill Panels, Square Aluminum Pickets, or Stainless Steel Cable

CRL's ARS 100 Series is the most versatile of our Aluminum Railing Systems. It is the only system that can meet the requirements of both a deck railing, commonly referred to as a guard rail, and also meet code requirements for stairways, sometimes called hand rails. This system can be used with glass, cable, picket, cast, or custom designed water jet/laser cut infills.

CRL ARS 200, 300, 350 and 400 Series Aluminum Railing Systems

PAGES 415B-441B

- Four Different Top Rail Profiles Provide for Most Application Possibilities
- Surface or Fascia Mount Post Systems
- Interchangeable Component Parts

CRL's high quality, versatile commercial or residential 200, 300, 350, and 400 Series Aluminum Railing Systems are manufactured from extruded aluminum framing members, all of which utilize 1/4" to 1/2" (6 to 12 mm) tempered glass, 9/16" (13.52 mm) laminated tempered glass, 3/4" (19 mm) aluminum pickets, cast infills, and stainless steel cable that is engineered to meet applicable building code specifications.

CRL ARS Surface Mount Cable Post Kits

PAGES 442B-445B

- Post Kits Prepped for 1/8" (3 mm) Cable Tensioning Receiver Ends or Push-Lock Ends
- 2-3/8" (60 mm) Square in Two Standard Post Heights
- Seven Standard Colors, Plus Mill Aluminum
- Custom Sizes and Hole Locations Also Available

CRL Stainless Steel Cable is an infill option for any of our railing systems. Our Surface Mount Cable Post Kits are available in your choice of two heights and seven attractive colors, plus mill aluminum. Custom heights and colors are also available upon request.

CRL ARS 4" x 4" Post Kits

PAGES 446B-450B

- Designed to Work With Our 100, 200, 300, and 350 Series Components
- Seven Standard Powder Coated Colors, Plus Mill Aluminum
- Use for Centers, Ends or 90 Degree Corners
- Available in Three Different Heights

CRL 4" x 4" (102 x 102 mm) Square Aluminum Post Kits are available when you need a little extra support for your railing and gate projects. Post Kits are available in your choice of three heights and seven attractive colors, plus mill aluminum. Custom heights and colors are also available.

CRL ARS Quick Connect Hand Rail Systems

PAGES 451B-454B

- Designed for Stairway and Handicap Ramp Areas
- Exterior and Interior Applications
- Meets and Exceeds A.D.A. Requirements
- Easy to Install

Our Quick Connect Hand Rail System is designed for stairways, handicap ramps, and any area that requires hand rails. This system can used with any of CRL's ARS Aluminum Railing Systems and can be custom powder coated to match job specific requirements.

CRL ACRS Aluminum Component Railing System

PAGES 455B-460B

- Combines the Clean Look of Welded Railings With the Benefits of Mechanical Systems
- Designed to Meet Most Building Codes

Our CRL Aluminum Component Railing System (ACRS) utilizes 1-1/2" Schedule 40 Aluminum Pipe with a 1.9" (48 mm) outside diameter and .145" (4 mm) wall thickness. We offer a wide selection of component fittings to allow the installer the freedom and ability to create an attractive aluminum railing system without costly welding and refinishing.

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CRL US ALUMINUM

CRL ARS Aluminum Railing Systems

- Available Systems Use 2-3/8" and 4" (60 and 102 mm) Square Posts
- Seven Standard Powder Paint Colors Available, Plus Mill Aluminum
- Custom Colors Also Available

CRL US ALUMINUM®
MANUFACTURED IN THE USA

C.R. Laurence Company is the manufacturer of a premium Aluminum Railing System. By specializing in the design and manufacturing of this innovative system, we are uniquely suited to solve difficult installation issues and maintain high quality production. By controlling each step from original design to final shipping, we can provide the highest level of quality control and lead time reliability for projects anywhere in the world.

Product development is an ongoing process at CRL. Rest assured that the products we offer represent the current evolution of railing technology. In addition to our standard designs, we offer the ability to create custom railings that address project-specific criteria.

Glass Railing System

Use CRL's Glass Railing System for projects that are view-oriented. Glass Railings give buildings a sophisticated appeal. Our various systems will accept any 1/4" to 1/2" (6 to 12 mm) tempered glass or 9/16" (13.52 mm) laminated tempered glass infill options. Glass Railings also serve as effective wind barriers, further enhancing the outdoor balcony environment.

Picket Railing System

CRL's Picket Railing System is simple, attractive, and strong. Widely specified for commercial and residential applications, the Picket Railing System utilizes 3/4" (19 mm) square or round vertical pickets. Choose any one of our standard top rail options. Add our decorative cast or water jet/laser cut infill panels to create a unique architectural accent. For custom applications, consult CRL Technical Sales.

Cable Railing System

CRL's Cable Railing System is perfect for projects that desire a more commercial or nautical feel. Using quality alloy 316 cable and stainless steel hardware, our Cable Railing System performs in the harshest of conditions. Typical applications utilize horizontal cables spaced 3-1/2" (89 mm) on center.

FWS and AWS Windscreen Systems

CRL's FWS and AWS Windscreen Systems are very popular in hotel and condo applications. Our Windscreen Systems create an effective barrier while limiting the confining effect of a typical fence. Used in conjunction with a concrete slab or masonry wall, these innovative systems are highly adaptable, structurally sound, and attractive.

Color Selection

- Tough, Powder-Coated or Optional KYNAR® Paint Colors for Superior Color Retention and Weather Resistance

Our specially formulated coatings are designed to resist the corrosive effects of salt water, providing a permanent, worry-free addition to your building. You can choose from one of the seven standard colors plus mill aluminum, or one of our 250 additional "Quick Turn" colors. If you still can't find just the right color, you can send us the desired color and we can match it for you.

KYNAR is a registered trademark of Autofina Chemicals, Inc.

USE MONOLITHIC TEMPERED GLASS

or

USE LAMINATED TEMPERED GLASS

Sky White - Gloss | Oyster White - Gloss | Agate Gray - Gloss

Beige Gray - Gloss | Black - Matte | Bronze - Matte

Silver - Metallic

Standard Colors
Colors shown are representative only, and may vary slightly from actual gloss, color, and texture. If color match is critical, please contact Railing Technical Sales for additional information.

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CRL US ALUMINUM®

CRL ARS Aluminum Railing System Mounting Options

CRL's high quality commercial or residential Aluminum Railing Systems are manufactured from extruded aluminum framing members utilizing tempered glass, aluminum pickets, stainless steel cable, cast or water jet/laser cut infills, that are engineered to meet applicable building code specifications. Regardless of style or color, each one of our railing systems provides superior color retention, impact resistance, and weatherability in any environment.

One benefit of the ARS System is that it attaches to just about any substrate with our standard Surface Mount Base Plates. However, you do have additional mounting options, as illustrated below.

Our specially formulated coatings are designed to resist the corrosive effects of salt water, providing a permanent, worry-free addition to your building. We manufacture a comprehensive selection of railing systems that combine the durability of extruded aluminum with innovative design details. This assures long-term structural integrity and enhances project aesthetics, while consistently reducing the annual maintenance expense.

The CRL Aluminum Railing System is designed to meet all Guard Rail Safety Codes, and with so many options, there is a railing system for every application.

Typical Mounting Options
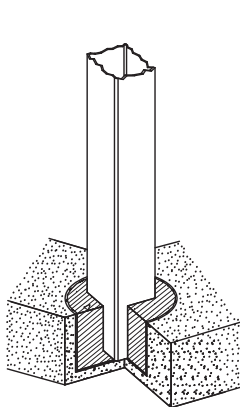
Core Mounted
Installation
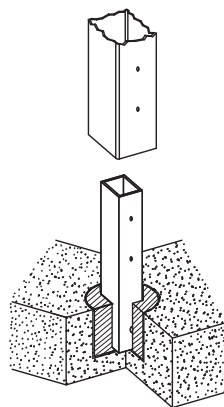
Core Mounted
With Stanchion Installation
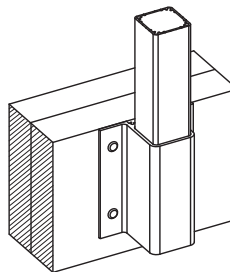
Fascia Mounted
Installation
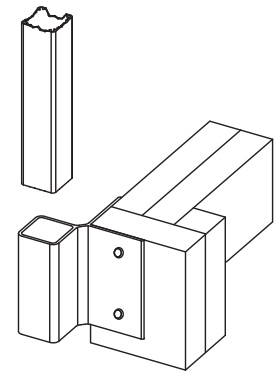
Corner Fascia Mount Installation
(Inside or Outside Corners Available)
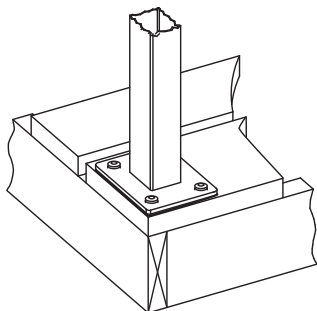
Surface Mounted
Standard Base
With Moisture
Barrier Gasket
Between Bracket
and Substrate

Outside Corner
Fascia Mount*

Inside Corner
Fascia Mount*

Surface Mount
Standard Base

Surface Mount
Offset Base

Core
Mount
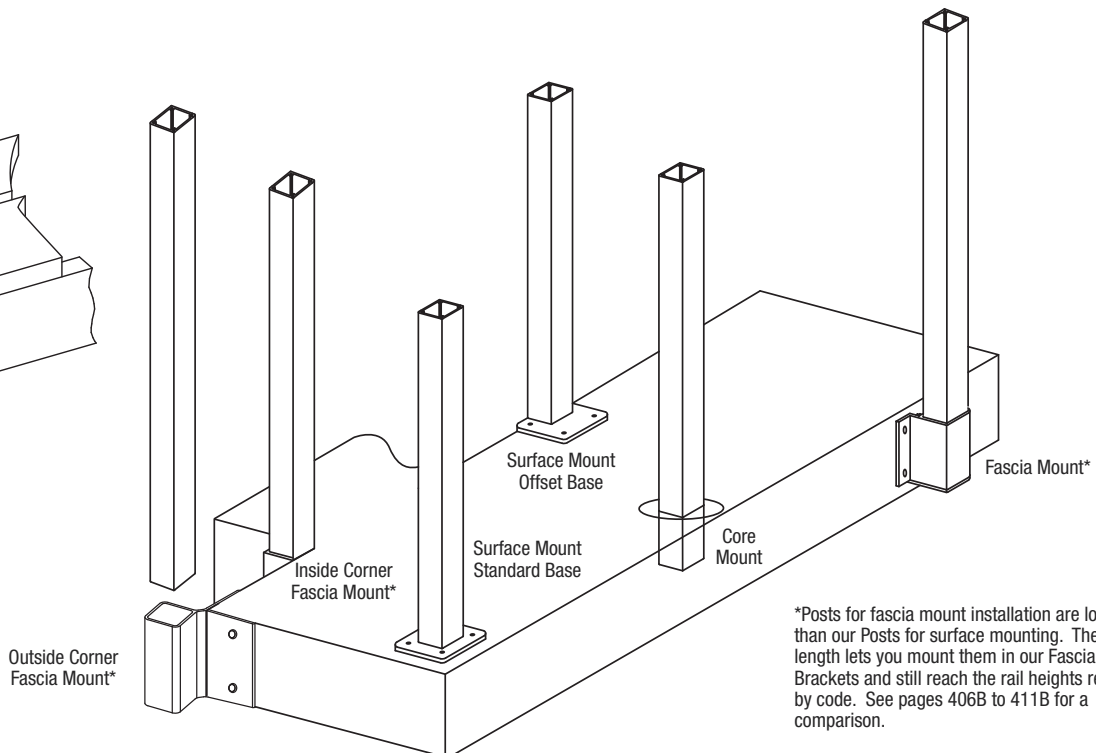
Fascia Mount*

*Posts for fascia mount installation are longer than our Posts for surface mounting. The extra length lets you mount them in our Fascia Mount Brackets and still reach the rail heights required by code. See pages 406B to 411B for a comparison.

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CRL US ALUMINUM

Infill Options

CRL offers the five Infill Options shown here. Utilizing our state-of-the-art manufacturing facility we can produce almost any desired design to meet your project specifications. All of the Infill Options shown are designed to work with all CRL Aluminum Railing Systems. **NOTE**: For glass size formulas, see image to the right.

1-1/2" (38 mm) Standard Glass Gaps

Daylight Plus 3/4" (19 mm) to Determine Glass Height

Daylight Minus 3" (76 mm) to Determine Glass Width
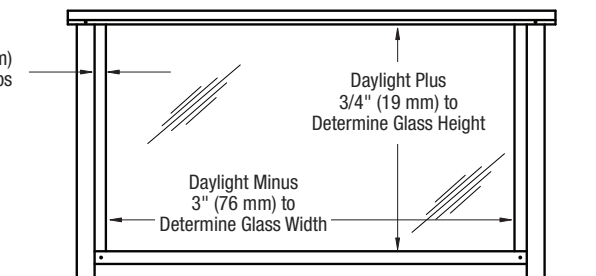
1/4" (6 mm) through 1/2" (12 mm) Tempered Glazing or 9/16" (13.52 mm) Laminated Tempered Glazing
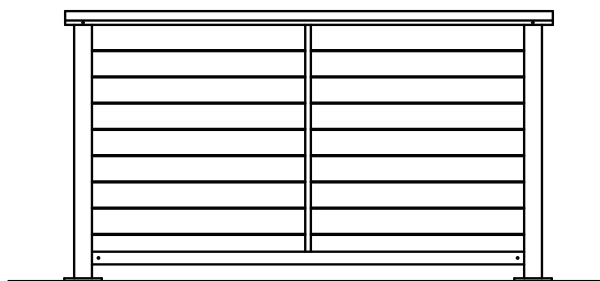
Horizontal 1/8" (3 mm) Diameter Type 316 Stainless Steel Cable

USE MONOLITHIC TEMPERED GLASS

or

USE LAMINATED TEMPERED GLASS
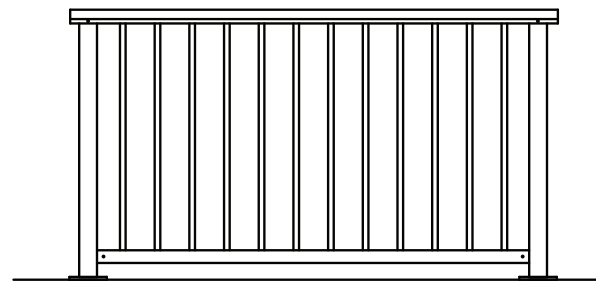
3/4" (19 mm) Square or Round Aluminum Picket Panels
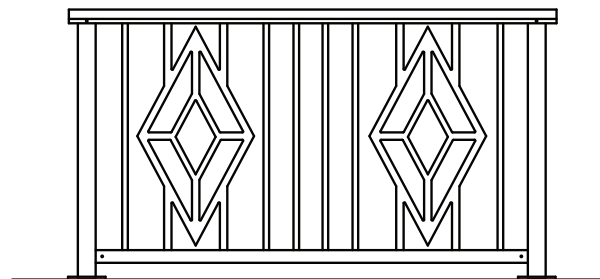
Cast Aluminum Panels
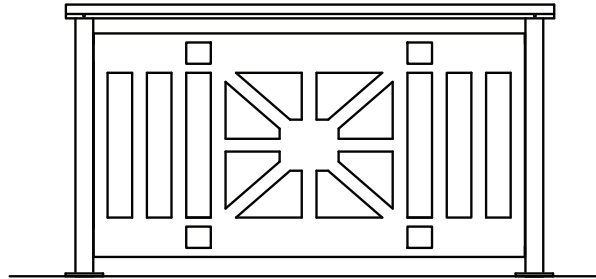
Custom Water Jet/Laser Cut Panels

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FREE Fax: (800) 262-3299
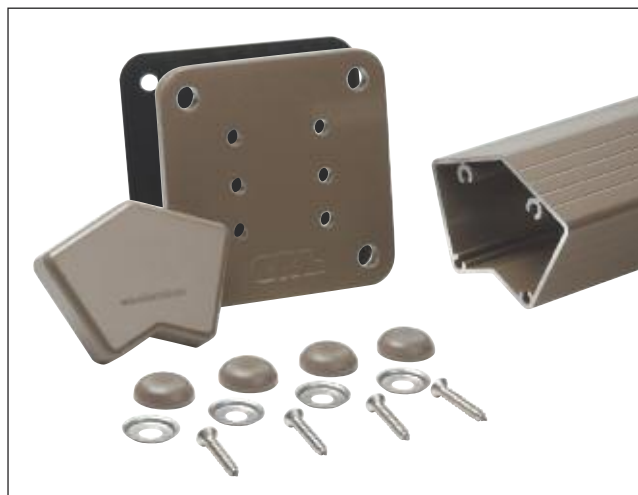From Anywhere in the U.S. or Canada

CRL US ALUMINUM

CRL Aluminum Railing Monolithic Tempered "Rail Glass"

NEW!

- For Any Railing or Windscreen Application
- All Glass Panels Ship Cut and Tempered, Ready to Install
- Three Standard Monolithic Glass Thicknesses to Choose From
- Clear Tempered and Low Iron (Starphire) Glass Types Available
- Custom Sizes, Fabrication, Drilling, and Edge Work Available

   Designed for interior and exterior glass railing applications, CRL's "Rail Glass" is fabricated and tempered in accordance with Federal Specifications: ANSI Z97.1, CPSC 16, and CFR 1201 standards. Custom sizes, fabrication, and edge work is also available. Wood crating charges will apply (maximum 1500 pounds [680 kg] per crate). Contact CRL's Railing Technical Sales for more information at (800) 421-6144 (U.S.), (877) 421-6144 (Canada), or (323) 588-1281 (International). Ask for Ext. 7730. You can also send email to **railings@crlaurence.com**. **NOTE:** Check your local building codes for glass type required.

Clear Monolithic Tempered

Low Iron Starphire® Monolithic Tempered

• Proudly Produced in the U.S.A.

USE MONOLITHIC TEMPERED GLASS

Standard Edge Work

1/4" (6 MM) THICK CLEAR AND LOW IRON STARPHIRE® TEMPERED GLASS

CAT. NO.	SIZE	DESCRIPTION
MG6CC	Custom Size (Specify)	Clear Tempered
MG6LC	Custom Size (Specify)	Low Iron Starphire® Tempered

Minimum order: 1 each. Boxing and crating charges will apply for all orders.

3/8" (10 MM) THICK CLEAR AND LOW IRON STARPHIRE® TEMPERED GLASS

CAT. NO.	SIZE	DESCRIPTION
MG10CC	Custom Size (Specify)	Clear Tempered
MG10LC	Custom Size (Specify)	Low Iron Starphire® Tempered

Minimum order: 1 each. Boxing and crating charges will apply for all orders.

1/2" (12 MM) THICK CLEAR AND LOW IRON STARPHIRE® TEMPERED GLASS

CAT. NO.	SIZE	DESCRIPTION
MG12CC	Custom Size (Specify)	Clear Tempered
MG12LC	Custom Size (Specify)	Low Iron Starphire® Tempered

Minimum order: 1 each. Boxing and crating charges will apply for all orders.

CRL Aluminum Railing Laminated Tempered "Rail Glass"

NEW!

- Laminated Clear Tempered and Low Iron Starphire® Glass Types Available
- Flat Polished Edges With CRL's "Precise Edge" Technology
- Custom Sizes, Fabrication, and Edge Work Available

   CRL's Laminated "Rail Glass" Panels for glass railing applications meet the test criteria of ASTM C1172, ANSI Z97.1, CPSC 16, and CFR1201 standards, and are produced with a rigid Ionoplast™ interlayer. Our "Precise Edge" Technology dramatically improves the edge quality of laminated glass and gives each flat polished edge a consistent clean look and feel. Custom sizes, fabrication, and edge work is available. Wood crating charges will apply (maximum 1500 pounds [680 kg] per crate). Contact CRL's Railing Technical Sales for more information. **NOTE:** Check your local building codes for glass type required.

Clear Laminated Tempered

Low Iron Starphire® Laminated Tempered

9/16" (13.52 MM) THICK CLEAR AND LOW IRON STARPHIRE® LAMINATED TEMPERED GLASS

CAT. NO.	SIZE	DESCRIPTION
LG13CC	Custom Size (Specify)	Laminated Clear Tempered
LG13LC	Custom Size (Specify)	Laminated Low Iron Starphire® Tempered

Minimum order: 1 each. Boxing and crating charges will apply for all orders.

Starphire® is a registered trademark of PPG Industries Ohio, Inc.

USE LAMINATED TEMPERED GLASS

• Proudly Produced in the U.S.A.

Precise Edge Technology

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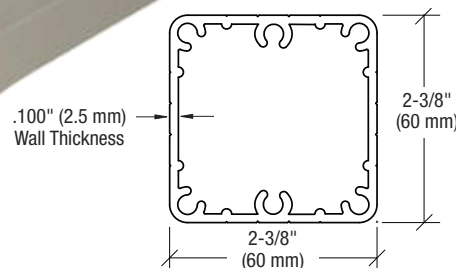From Anywhere in the U.S. or Canada

CRL US ALUMINUM

CRL ARS ALUMINUM RAILING SYSTEMS

CRL 100 Series Aluminum Railing System for Straight Runs and Stairways

- Standard Rail Heights are 36", 42", and 48" (914, 1066, and 1219 mm). Custom Rail Heights Also Available
- Glass Infill Panel Options: 1/4", 3/8" or 1/2" (6, 10 or 12 mm) Tempered or 9/16" (13.52 mm) Laminated Tempered
- Available With Decorative Cast Infill Panels, 5/8" (16 mm) Square Aluminum Pickets, or Stainless Steel Cable
- Seven Standard Colors, Plus Mill Aluminum
- Custom Colors Available Upon Request

CRL US ALUMINUM MANUFACTURED IN THE USA

100 Series

The 100 Series is definitely the most versatile of our Aluminum Railing Systems. The reason is simple-it is the only system that can meet the requirements of both a deck railing, commonly referred to as a guard rail, and also meet code requirements for stairways, sometimes called hand rails.

This system can be used with glass, cable, picket, cast, or custom designed water jet/laser cut infills. The pickets in this system come individually, unlike the Picket Panels used in the 200, 300, 350, and 400 Series (see page 440B). Because of this, it is necessary to install the pickets one by one. You will receive spacers to hold pickets in place in the top and bottom rails. These spacers are cut to 3-7/8" (98 mm); the maximum allowable distance pickets can be spaced and still meet current national code requirements.

Straight Runs

- Surface Mount, Core Mount or Fascia Mount Applications

Ramps/Stairways

- A.D.A. Compliant and Meets Code Requirements for Hand Rails

Maximum Post Spacing is 72" (1829 mm) Center-to-Center
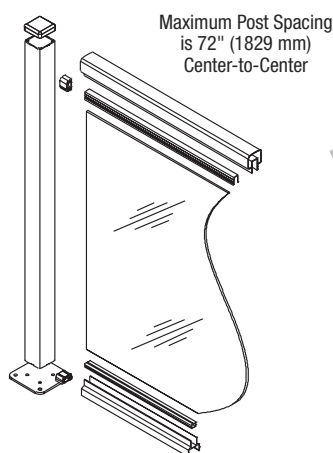
CRL ARS Standard Color Chip Chain
CAT. NO. SCCS8
Minimum order: 1 each

5/8" (16 mm) Square Pickets

1/4", 3/8", or 1/2" (6, 10, or 12 mm) Tempered Glass or 9/16" (13.52 mm) Laminated Tempered Glass

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CRL US ALUMINUM
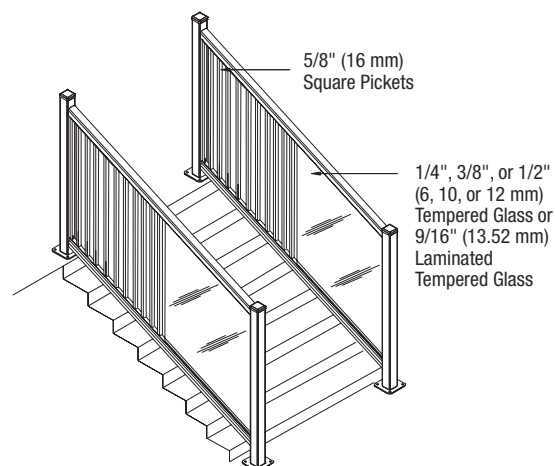
CRL Top Rail for 100 Series Rails

- Designed to Accommodate 5/8" (16 mm) Pickets or 1/4" to 1/2" (6 to 12 mm) Tempered Glass or 9/16" (13.52 mm) Laminated Tempered Glass*
- Rails Meet Stairway Code Requirements
- Custom Powder Coat Colors Available

* 1/2" and 9/16" (12 and 13.52 mm) Glass only if wet glazed.

Our 100 Series Aluminum Top Rails are sold in 20'-1" (6.12 m) stock lengths. Powder coated rails come in your choice of seven standard CRL colors, plus mill aluminum. Custom colors are also available. See page 403B for Rail Connecting Blocks.
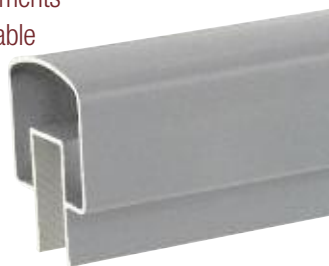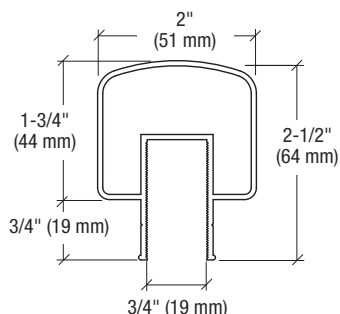
CAT. NO.	COLOR
1TR241W	Sky White
1TR2410W	Oyster White
1TR241AGY	Agate Gray
1TR241BGY	Beige Gray
1TR241BL	Matte Black
1TR241BRZ	Matte Bronze
1TR241S	Silver Metallic
1TR241CRM	Mill Aluminum

Minimum order: 1 each. See page 397B for color chart. Must ship common carrier.

CRL Bottom Rail for 100 Series Rails

- Designed to Accommodate 5/8" (16 mm) Pickets or 1/4" to 1/2" (6 to 12 mm) Tempered Glass or 9/16" (13.52 mm) Laminated Tempered Glass*
- Sleek Tapered Design
- Custom Powder Coat Colors Available

* 1/2" and 9/16" (12 and 13.52 mm) Glass only if wet glazed.

CRL 100 Series Aluminum Bottom Rail was designed to accommodate glass or pickets by simply changing the rigid vinyl. This Bottom Rail comes in 20'-1" (6.12 m) lengths made from powder coated extruded aluminum. See page 403B for Rail Connecting Blocks.
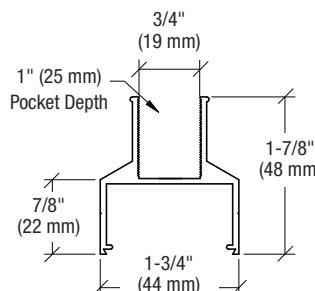
CAT. NO.	COLOR
1BR241W	Sky White
1BR2410W	Oyster White
1BR241AGY	Agate Gray
1BR241BGY	Beige Gray
1BR241BL	Matte Black
1BR241BRZ	Matte Bronze
1BR241S	Silver Metallic
1BR241CRM	Mill Aluminum

Minimum order: 1 each. See page 397B for color chart. Must ship common carrier.

CRL Glazing Vinyl for 100 Series Rails

- Rigid Glazing Vinyl is Designed to Snap in Before the Glass is Installed
- 12 Ft. (3.66 m) Lengths, Custom Lengths on Request
- Two Sizes for Use With 1/4" or 3/8" (6 or 10 mm) Thick Tempered Glass

100 Series Top Rigid Vinyl
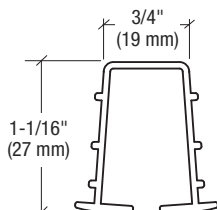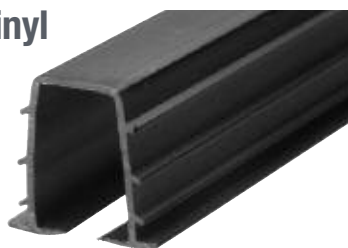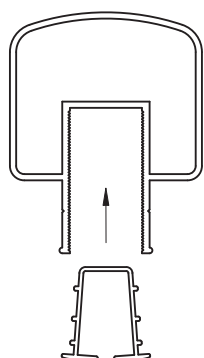
CRL 100 Series Top Rigid Vinyl is available in two sizes to hold 1/4" (6 mm) or 3/8" (10 mm) glass. When installing Rigid Vinyl, snap it into place before installing the glass. Stock lengths of vinyl are 12' (3.66 m).

CAT. NO.	DESCRIPTION
14TV	Top Vinyl for 1/4" (6 mm) Thick Glass#
38TV	Top Vinyl for 3/8" (10 mm) Thick Glass#

Minimum order: 1 each. A Packing Charge will be added to orders of fewer than five combined lengths.
Stock lengths longer than 108" (2.74 m) must ship common carrier unless you specify that we cut them for U.P.S. A Cutting Charge will apply.

100 Series Bottom Rigid Vinyl
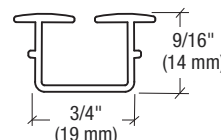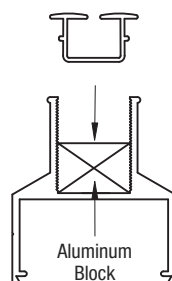
CRL 100 Series Bottom Rigid Vinyl comes in two sizes to hold 1/4" (6 mm) or 3/8" (10 mm) glass. When installing Rigid Vinyl, insert Aluminum Blocks evenly spaced into channel, then snap vinyl into place before you install the glass. Stock lengths of vinyl are 12' (3.66 m).

CAT. NO.	DESCRIPTION
14BV	Bottom Vinyl for 1/4" (6 mm) Thick Glass#
38BV	Bottom Vinyl for 3/8" (10 mm) Thick Glass#
1ASB1	Pack of 10 Aluminum Blocks▲

Minimum order: 1 each. A Packing Charge will be added to orders of fewer than five combined lengths.
Stock lengths longer than 108" (2.74 m) must ship common carrier unless you specify that we cut them for U.P.S. A Cutting Charge will apply. ▲ Minimum order is 10 each. Must be ordered in increments of 10.

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CRL Rail Connecting Blocks for 100 Series Rails

- Designed for Installing 100 Series Top and Bottom Rails to Post

3/4" (19 mm)

1-1/2" (38 mm)

See below for screws
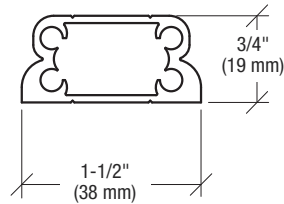
RCBS Screws
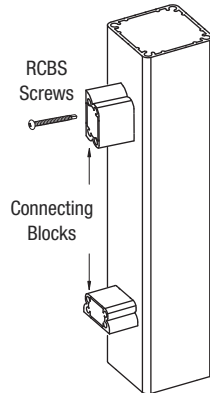
Connecting Blocks

Use CRL Rail Connecting Blocks to connect Top and Bottom Rails to vertical posts. Screw Blocks into index grooves on post using Cat. No. RCBS Rail Connecting Block Screws. Miter cut 12" or 241" lengths when building angles for stairs and slopes. All Connecting Blocks are extruded aluminum with a weather resistant chromate finish.

CAT. NO.	SIZE
RCB1	1" (25 mm)
RCB112	12" (305 mm)
RCB1241	241" (6.12 m)#

Minimum order: 1 each. # Must ship common carrier.

CRL Stainless Steel Self Drilling Railing Screws

CAT. NO. RCBS
#10 x 2"
Rail Connecting Block Screw

CAT. NO. TEK1
#8 x 3/4"
Rail Fastening Screw

CAT. NO. 9502
Square Insert Bit

Use CRL Self Drilling Screws when installing our 100, 200, 300, 350, and 400 Series Railings. Screws are 18-8 stainless steel, and have special crosscuts which allow them to drill into aluminum. Screws require Cat. No. 9502 1/8" (3 mm) size Square Insert Bit to install.

CAT. NO.	DESCRIPTION	SIZE
RCBS	Rail Connecting Block Screw	#10 x 2" (51 mm)▲
TEK1	Rail Fastening Screw	#8 x 3/4" (19 mm)▲
9502	Square Insert Bit for Screws	1/8" (3 mm)*

▲ Minimum order: 50 each. Must be ordered in increments of 50. *Minimum order for bit: 1 each.

CRL Intermediate Post Fitting

- For Use Only With Our 100 Series Railings
- Seven Attractive Colors Available From Stock, Plus Mill Aluminum
- Custom Powder Coat Colors Also Available
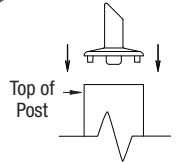
Top of Post

The CRL Aluminum Intermediate Post Fitting was designed to fit under the 100 Series Top Rail. This Post Fitting allows the 100 Series Top Rail to flow uninterrupted from top to bottom of stairs. It is pressure fitted into top of post and secured with our 95C Silicone (see page 125B). For attaching the Top Rail to the Intermediate Post Fitting use CRL Cat. No. TEK1 Screws.

CAT. NO.	COLOR
1PFW	Sky White
1PF0W	Oyster White
1PFAGY	Agate Gray
1PFBGY	Beige Gray
1PFBL	Matte Black
1PFBRZ	Matte Bronze
1PFS	Silver Metallic
1PFCRM	Mill Aluminum

Minimum order: 1 each. See page 397B for color chart.

CRL Intermediate Bottom Support

- For Use With All Series of Our Aluminum Railings
- Seven Attractive Colors, Plus Mill Aluminum Available From Stock
- Custom Powder Coat Colors Also Available

Bottom Rail

TEK1 Screw
Intermediate Bottom Support
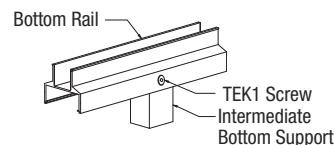
The CRL Aluminum Intermediate Bottom Support was designed to fit underneath the Bottom Rail for additional strength. Connects to Bottom Rail with two Cat. No. TEK1 Tek Screws. Support is 12" (305 mm) long, and is easy to cut to the exact required length.

CAT. NO.	COLOR
1BSW	Sky White
1BS0W	Oyster White
1BSAGY	Agate Gray
1BSBGY	Beige Gray
1BSBL	Matte Black
1BSBRZ	Matte Bronze
1BSS	Silver Metallic
1BSCRM	Mill Aluminum

Minimum order: 1 each. See page 397B for color chart.

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CRL US ALUMINUM

CRL Surface Mount Post Kits for 100 Series Rails

- 6005 Alloy Pre-Treated Aluminum/T5 Temper 2-3/8" (60 mm) Square Posts
- Use for 180 Degree, 90 Degree or End Posts
- Three Standard Post Heights
- Complete With Post Cap, Base Plate, Moisture Barrier Gasket, Stainless Washers, Screws, and Bolt Cover Buttons
- Seven Attractive Colors, Plus Mill Aluminum Available From Stock
- Custom Powder Coat Colors Also Available
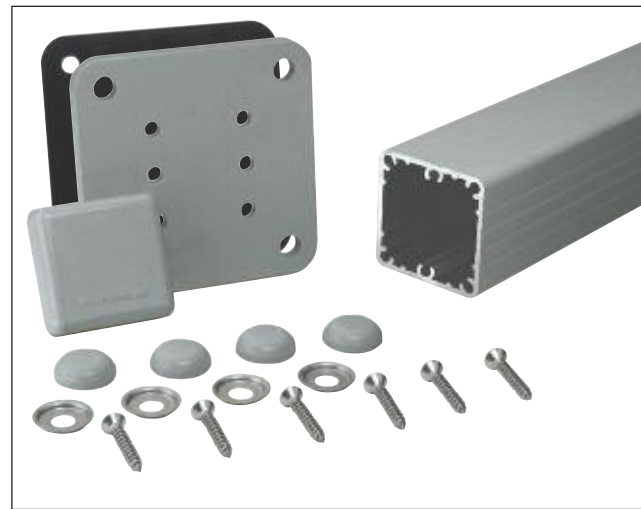
CRL 100 Series Surface Mount Post Kits come complete with Base Plate (BP5), Moisture Barrier Gasket (BPG1BL), Base Plate Screws (BPS112), Stainless Steel Washers (WSHR1), Bolt Cover Buttons (BTN1), and Post Caps (PC1). See page 437B for Lag Bolts or Anchors for mounting to the substrate. Standard Post Kits are available in your choice of three heights and seven attractive colors, plus mill aluminum. Custom heights and colors are also available.

Standard Kits Include:

CAT. NO.*	DESCRIPTION	POST HEIGHT
1P36K	36" Post Kit	37" (940 mm)
1P42K	42" Post Kit	43" (1092 mm)
1P48K	48" Post Kit	49" (1244 mm)

Minimum order: 1 each. * Specify powder coat color or mill aluminum when ordering.

STANDARD COLORS

Sky White Gloss	Oyster White Gloss	Agate Gray Gloss	Beige Gray Gloss	Black Matte	Bronze Matte	Silver Metallic

Colors shown are representative only, and may vary slightly from actual gloss, color, and texture. If color match is critical, please contact Technical Sales for additional information.

Additional Color Options - CRL has over 250 quick turn custom color options with the ability to color match as well.
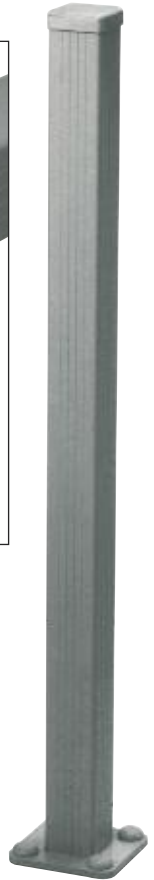
CRL Posts Only for 100 Series Rails

- 6005 Alloy Pre-Treated Aluminum/T5 Temper 2-3/8" (60 mm) Square Posts
- Use for 180 Degree, 90 Degree or End Posts
- Three Standard Post Heights
- Seven Attractive Colors, Plus Mill Aluminum Available From Stock
- Custom Powder Coat Colors Also Available

CRL 100 Series Aluminum Posts are available in your choice of three heights and seven attractive colors, plus mill aluminum. You can also cut custom posts from our 20'-1" (6.12 m) stock lengths. Custom heights and colors are also available.
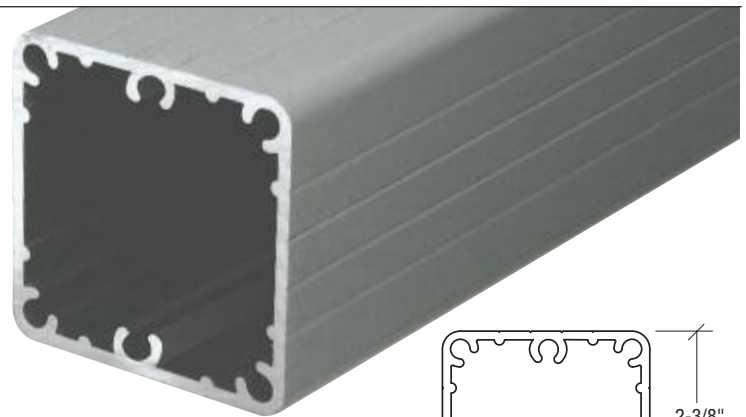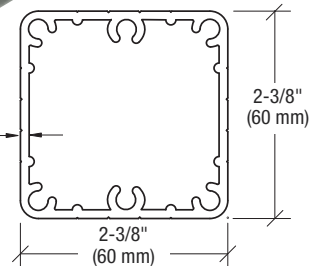
.100" (2.5 mm) Wall Thickness

2-3/8" (60 mm)

2-3/8" (60 mm)

CAT. NO.*	DESCRIPTION	HEIGHT/LENGTH
1P36	36" Post	37" (940 mm)
1P42	42" Post	43" (1092 mm)
1P48	48" Post	49" (1244 mm)
P241	20'-1" Stock Length	241" (6.12 m)#

Minimum order: 1 each. * Specify powder coat color or mill aluminum when ordering.
Must ship common carrier.

STANDARD COLORS

Sky White Gloss	Oyster White Gloss	Agate Gray Gloss	Beige Gray Gloss	Black Matte	Bronze Matte	Silver Metallic

Colors shown are representative only, and may vary slightly from actual gloss, color, and texture. If color match is critical, please contact Technical Sales for additional information.

Additional Color Options - CRL has over 250 quick turn custom color options with the ability to color match as well.

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CRL US ALUMINUM®

CRL 135 Degree Surface Mount Post Kits for 100 Series Rails

- 6005 Alloy Pre-Treated Aluminum/T5 Temper
- Three Standard Post Heights
- Complete With Post Cap, Base Plate, Moisture Barrier Gasket, Screws, Stainless Washers, and Bolt Cover Buttons
- Designed to be Installed Onto Concrete, Wood, Steel, and Other Substrates
- Seven Attractive Colors, Plus Mill Aluminum Available From Stock
- Custom Powder Coat Colors Also Available

CRL 135 Degree Post Kits come complete with Base Plate (BP5), Moisture Barrier Gasket (BPG1BL), Base Plate Screws (BPS112), Stainless Steel Washers (WSHR1), Color Match Bolt Cover Buttons (BTN1), and Post Cap (PC45). See page 437B for Lag Bolts or Anchors for mounting to the substrate. Standard Post Kits are available in your choice of three heights and seven attractive colors, plus mill aluminum. Custom heights and colors also available.

Standard Kits Include:

CAT. NO.*	DESCRIPTION	POST HEIGHT
1P536K	36" Post Kit	37" (940 mm)
1P542K	42" Post Kit	43" (1092 mm)
1P548K	48" Post Kit	49" (1244 mm)

Minimum order: 1 each. *Specify powder coat color when ordering.

STANDARD COLORS

Sky White Gloss	Oyster White Gloss	Agate Gray Gloss	Beige Gray Gloss	Black Matte	Bronze Matte	Silver Metallic

Colors shown are representative only, and may vary slightly from actual gloss, color, and texture. If color match is critical, please contact Technical Sales for additional information.

Additional Color Options - CRL has over 250 quick turn custom color options with the ability to color match as well.

CRL 135 Degree Posts Only for 100 Series Rails

- 6005 Alloy Pre-Treated Aluminum/T5 Temper
- Three Standard Post Heights Plus a Stock Length You Can Cut to the Required Size
- Seven Attractive Colors, Plus Mill Aluminum Available From Stock
- Custom Powder Coat Colors Also Available

CRL 135 Degree Aluminum Posts are available in your choice of three heights and seven attractive colors, plus mill aluminum. Custom heights and colors also available. You can also order our 20'-1" (6.12 m) stock length to cut posts of any height required. These Posts are designed to be installed onto concrete, wood, steel, and other substrates. Can be core mounted or surface mounted.

.100" (2.5 mm) Wall Thickness
2-1/8" (54 mm)
2-3/8" (60 mm)
2-3/8" (60 mm)

CAT. NO.*	DESCRIPTION	HEIGHT/LENGTH
1P536	36" Post	37" (940 mm)
1P542	42" Post	43" (1092 mm)
1P548	48" Post	49" (1244 mm)
P5241	20'-1" Stock Length	241" (6.12 m)#

Minimum order: 1 each. * Specify powder coat color when ordering.
\# Must ship common carrier.

STANDARD COLORS

Sky White Gloss	Oyster White Gloss	Agate Gray Gloss	Beige Gray Gloss	Black Matte	Bronze Matte	Silver Metallic

Colors shown are representative only, and may vary slightly from actual gloss, color, and texture. If color match is critical, please contact Technical Sales for additional information.

Additional Color Options - CRL has over 250 quick turn custom color options with the ability to color match as well.

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CRL US ALUMINUM

CRL Fascia Mount Posts Only for 100 Series Rails

- 6005 Alloy Pre-Treated Aluminum/T5 Temper 2-3/8" (60 mm) Square Posts
- Three Standard Post Heights
- Seven Attractive Colors, Plus Mill Aluminum Available From Stock
- Custom Powder Coat Colors Also Available

CRL 100 Series Aluminum Fascia Posts have an additional 11" (279 mm) in length to accommodate fascia mount installations. They are available in your choice of three heights and seven attractive colors, plus mill aluminum. Custom heights and colors are also available.

.100" (2.5 mm) Wall Thickness

2-3/8" (60 mm)

2-3/8" (60 mm)

MANUFACTURED IN THE USA

STANDARD COLORS

| Sky White Gloss | Oyster White Gloss | Agate Gray Gloss | Beige Gray Gloss | Black Matte | Bronze Matte | Silver Metallic |

Colors shown are representative only, and may vary slightly from actual gloss, color, and texture. If color match is critical, please contact Technical Sales for additional information.

Additional Color Options - CRL has over 250 quick turn custom color options with the ability to color match as well.
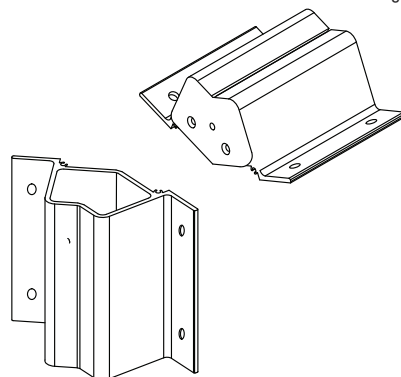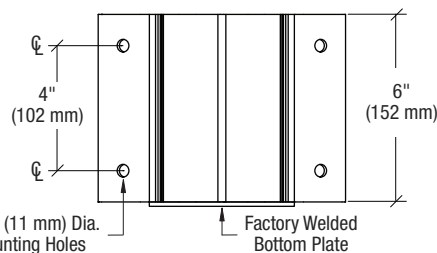
CAT. NO.*	DESCRIPTION	HEIGHT/LENGTH
1FP36	36" Fascia Post	47" (1194 mm)
1FP42	42" Fascia Post	53" (1346 mm)
1FP48	48" Fascia Post	59" (1498 mm)

Minimum order: 1 each. * Specify powder coat color when ordering.

CRL Fascia Mount 135 Degree Posts Only for 100 Series Rails

NEW!

- 6005 Alloy Pre-Treated Aluminum/T5 Temper
- Three Standard Post Heights
- Seven Attractive Colors, Plus Mill Aluminum Available From Stock
- Custom Powder Coat Colors Also Available

CRL 135 Degree 100 Series Aluminum Fascia Posts have an additional 11" (279 mm) in length to accommodate fascia mount installations. They are available in your choice of three heights and seven attractive colors, plus mill aluminum. Custom heights and colors are also available.

2-1/8" (54 mm)

.100" (2.5 mm) Wall Thickness

2-3/8" (60 mm)

2-3/8" (60 mm)

MANUFACTURED IN THE USA

STANDARD COLORS

| Sky White Gloss | Oyster White Gloss | Agate Gray Gloss | Beige Gray Gloss | Black Matte | Bronze Matte | Silver Metallic |
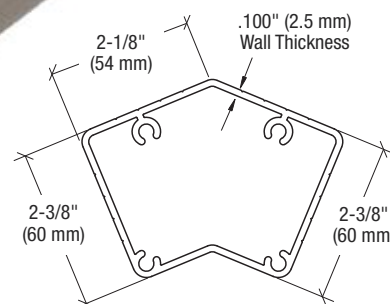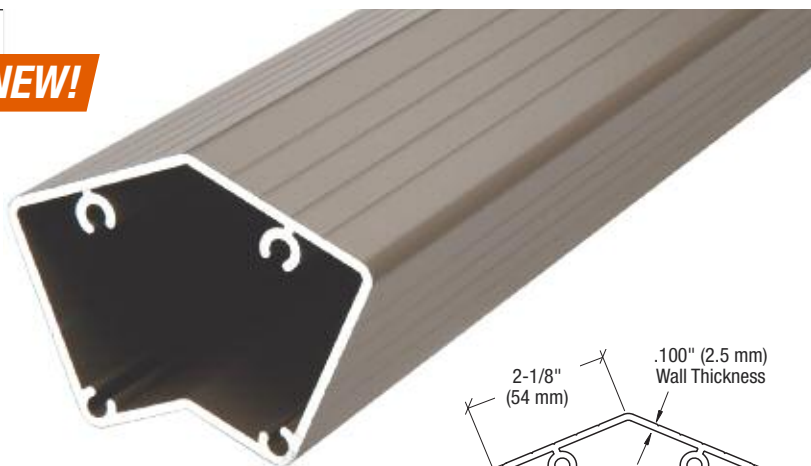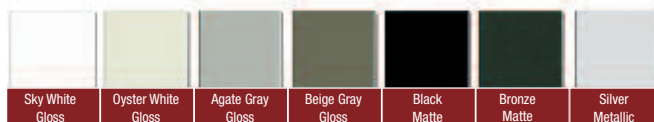
Colors shown are representative only, and may vary slightly from actual gloss, color, and texture. If color match is critical, please contact Technical Sales for additional information.

Additional Color Options - CRL has over 250 quick turn custom color options with the ability to color match as well.

CAT. NO.*	DESCRIPTION	HEIGHT/LENGTH
1FP536	36" Fascia Post	47" (1194 mm)
1FP542	42" Fascia Post	53" (1346 mm)
1FP548	48" Fascia Post	59" (1498 mm)

Minimum order: 1 each. * Specify powder coat color when ordering.

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CRL
US ALUMINUM

CRL Fascia Mount Post Kits for 100 Series Rails

- 6005 Alloy Pre-Treated Aluminum/T5 Temper 2-3/8" (60 mm) Square Posts
- Use for Center and End Posts
- Designed to Mount to Almost Any Substrate
- Three Standard Post Heights
- Seven Attractive Colors, Plus Mill Aluminum
- Custom Powder Coat Colors Also Available

CRL 100 Series Fascia Post Kits come complete with a Post that has an additional 11" (279 mm) in length, Fascia Bracket (FB1), Base Plate Screws (BPS112), Stainless Steel Washers (WSHR1), Bolt Cover Buttons (BTN1), and Post Cap (PC1). See page 437B for Lag Bolts or Anchors for mounting to the substrate. Fascia Post Kits are available in your choice of three heights and seven attractive colors, plus mill aluminum. Custom heights and colors are also available.

Standard Kits Include:

STANDARD COLORS

Sky White Gloss	Oyster White Gloss	Agate Gray Gloss	Beige Gray Gloss	Black Matte	Bronze Matte	Silver Metallic

Colors shown are representative only, and may vary slightly from actual gloss, color, and texture. If color match is critical, please contact Technical Sales for additional information.

Additional Color Options - CRL has over 250 quick turn custom color options with the ability to color match as well.

CAT. NO.*	DESCRIPTION	POST HEIGHT
1FP36K	36" Fascia Post Kit	47" (1194 mm)
1FP42K	42" Fascia Post Kit	53" (1346 mm)
1FP48K	48" Fascia Post Kit	59" (1498 mm)

Minimum order: 1 each. * Specify powder coat color when ordering.

CRL Fascia Mount Brackets

- Seven Standard Colors, Plus Mill Aluminum Available to Match All CRL Aluminum Railings Using Our 2-3/8" (60 mm) Square Aluminum Posts

Use the CRL Fascia Mount Bracket to attach Vertical Posts to the face of any deck. Includes Fascia Bracket (FB9), Bottom Fascia Plate, Base Plate Screws (BPS112), Stainless Steel Washers (WSHR1), and Bolt Cover Buttons (BTN1). See page 437B for Lag Bolts or Anchors for mounting to the substrate.

CAT. NO.	COLOR
FB1W	Sky White
FB10W	Oyster White
FB1AGY	Agate Gray
FB1BGY	Beige Gray
FB1BL	Matte Black
FB1BRZ	Matte Bronze
FB1S	Silver Metallic
FB1CRM	Mill Aluminum

Minimum order: 1 each.

6" (152 mm)

3/4" (19 mm)

2-3/4" (70 mm)

NOTE: Not for use with our 4" x 4" Vertical Posts.

6" (152 mm)

4" (102 mm)

4-3/8" (111 mm)

7/16" (11 mm) Dia. Mounting Holes

Bottom Plate

2-3/8" (60 mm) Square Post

(2) #12 x 3/4" Flat Head Phillips Screws (Included) Cat. No. FBPS34

For Replacement Moisture Barrier Gaskets Order Cat. No. BPG4BL Sold Two Per Set.

(2) #14 x 1-1/2" Flat Head Phillips Screws (Included) Cat. No. BPS112

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CRL
US ALUMINUM

CRL Outside 90 Degree Fascia Mount Post Kits for 100 Series Rails

- 6005 Alloy Pre-Treated Aluminum/T5 Temper 2-3/8" (60 mm) Square Post Used for 90 Degree Outside Corner Conditions
- Designed to Mount to Almost Any Substrate
- Three Standard Post Heights
- Seven Attractive Colors, Plus Mill Aluminum
- Custom Powder Coat Colors Also Available

CRL 100 Series Outside 90 Degree Fascia Mount Post Kits come complete with a Post that has an additional 11" (279 mm) in length, Fascia Bracket (FB2), Bottom Fascia Plate Base Plate Screws (TEK1), Stainless Steel Washers (WSHR1), Bolt Cover Buttons (BTN1), and Post Cap (PC1). See page 437B for Lag Bolts or Anchors for mounting to the substrate. Fascia Post Kits are available in your choice of three heights and seven attractive colors, plus mill aluminum. Custom heights and colors are also available.

Standard Kits Include:

CAT. NO.*	DESCRIPTION	POST HEIGHT
1FP936K	36" (914 mm) Fascia Post Kit	47" (1194 mm)
1FP942K	42" (1067 mm) Fascia Post Kit	53" (1346 mm)
1FP948K	48" (1219 mm) Fascia Post Kit	59" (1498 mm)

Minimum order: 1 each. * Specify powder coat color when ordering.

STANDARD COLORS

Sky White Gloss	Oyster White Gloss	Agate Gray Gloss	Beige Gray Gloss	Black Matte	Bronze Matte	Silver Metallic

Colors shown are representative only, and may vary slightly from actual gloss, color, and texture. If color match is critical, please contact Technical Sales for additional information.
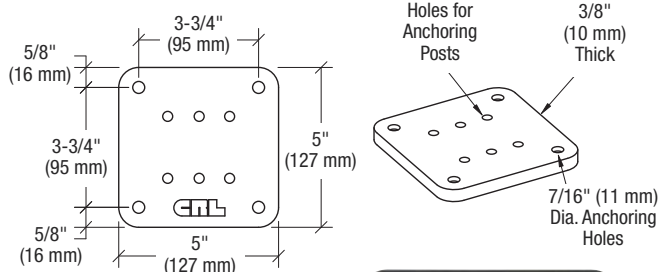
Additional Color Options - CRL has over 250 quick turn custom color options with the ability to color match as well.

CRL Outside 90 Degree Fascia Mount Brackets

- Specifically Designed for Outside 90 Degree Fascia Mount Installations
- Work With Almost Any Deck
- Seven Standard Colors, Plus Mill Aluminum

Use these CRL Outside 90 Degree Fascia Mount Brackets to attach 2-3/8" (60 mm) Vertical Posts to the side of almost any deck.

2-3/8" (60 mm) Square Post

7/16" (11 mm) Dia. Mounting Holes are Staggered for Installation

6" (152 mm)   4" (102 mm)

Bottom Plate

2-3/4" (70 mm)

NOTE: Not for use with our 4" x 4" Vertical Posts.

CAT. NO.	COLOR
FB2W	Sky White
FB20W	Oyster White
FB2AGY	Agate Gray
FB2BGY	Beige Gray
FB2BL	Matte Black
FB2BRZ	Matte Bronze
FB2S	Silver Metallic
FB2CRM	Mill Aluminum

Minimum order: 1 each.

STANDARD COLORS

Sky White Gloss	Oyster White Gloss	Agate Gray Gloss	Beige Gray Gloss	Black Matte	Bronze Matte	Silver Metallic

Colors shown are representative only, and may vary slightly from actual gloss, color, and texture. If color match is critical, please contact Technical Sales for additional information.

Additional Color Options - CRL has over 250 quick turn custom color options with the ability to color match as well.

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408B

TOLL Phone: (800) 421-6144
FREE Fax: (800) 262-3299
From Anywhere in the U.S. or Canada

CRL US ALUMINUM

CRL Inside 90 Degree Fascia Mount Post Kits for 100 Series Rails

NEW!

Standard Kits Include:

- 6005 Alloy Pre-Treated Aluminum/T5 Temper 2-3/8" (60 mm) Square Post Used for 90 Degree Inside Corner Conditions
- Designed to Mount to Almost Any Substrate
- Three Standard Post Heights
- Seven Attractive Colors, Plus Mill Aluminum
- Custom Powder Coat Colors Also Available

CRL 100 Series Inside 90 Degree Fascia Mount Post Kits come complete with a Post that has an additional 11" (279 mm) in length, Fascia Bracket (FB21), Bottom Fascia Plate Base Plate Screws (BPS112), Stainless Steel Washers (WSHR1), Bolt Cover Buttons (BTN1), and Post Cap (PC1). See page 437B for Lag Bolts or Anchors for mounting to the substrate. Fascia Post Kits are available in your choice of three heights and seven attractive colors, plus mill aluminum. Custom heights and colors are also available.
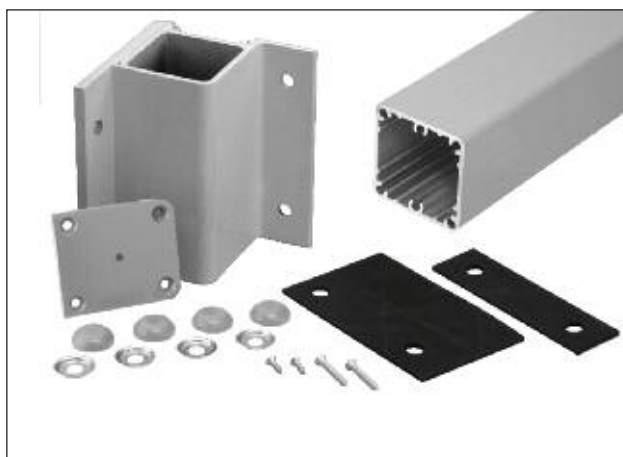
CAT. NO.*	DESCRIPTION	POST HEIGHT
1FP9136K	36" (914 mm) Fascia Post Kit	47" (1194 mm)
1FP9142K	42" (1067 mm) Fascia Post Kit	53" (1346 mm)
1FP9148K	48" (1219 mm) Fascia Post Kit	59" (1498 mm)

Minimum order: 1 each. * Specify powder coat color when ordering.

STANDARD COLORS

Sky White Gloss	Oyster White Gloss	Agate Gray Gloss	Beige Gray Gloss	Black Matte	Bronze Matte	Silver Metallic

Colors shown are representative only, and may vary slightly from actual gloss, color, and texture. If color match is critical, please contact Technical Sales for additional information.

Additional Color Options - CRL has over 250 quick turn custom color options with the ability to color match as well.

CRL Inside 90 Degree Fascia Mount Brackets

NEW!

- Specifically Designed for Inside 90 Degree Fascia Mount Installations
- Work With Almost Any Deck
- Seven Standard Colors, Plus Mill Aluminum

Use these CRL Inside 90 Degree Fascia Mount Brackets to attach 2-3/8" (60 mm) Vertical Posts to the side of almost any deck.

4" (102 mm)

6" (152 mm)

7/16" (11 mm) Dia. Mounting Holes

NOTE: Not for use with our 4" x 4" Vertical Posts.

CAT. NO.	COLOR
FB21W	Sky White
FB210W	Oyster White
FB21AGY	Agate Gray
FB21BGY	Beige Gray
FB21BL	Matte Black
FB21BRZ	Matte Bronze
FB21S	Silver Metallic
FB21CRM	Mill Aluminum

Minimum order: 1 each.

STANDARD COLORS

Sky White Gloss	Oyster White Gloss	Agate Gray Gloss	Beige Gray Gloss	Black Matte	Bronze Matte	Silver Metallic

Colors shown are representative only, and may vary slightly from actual gloss, color, and texture. If color match is critical, please contact Technical Sales for additional information.

Additional Color Options - CRL has over 250 quick turn custom color options with the ability to color match as well.

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TOLL Phone: (800) 421-6144
FREE Fax: (800) 262-3299
From Anywhere in the U.S. or Canada

CRL US ALUMINUM

CRL Outside 135 Degree Fascia Mount Post Kits for 100 Series Rails

NEW!

- 6005 Alloy Pre-Treated Aluminum/T5 Temper 135 Degree Post Used for Outside Corner Conditions
- Designed to Mount to Almost Any Substrate
- Three Standard Post Heights
- Seven Attractive Colors, Plus Mill Aluminum
- Custom Powder Coat Colors Also Available

CRL 100 Series Outside 135 Degree Fascia Mount Post Kits come complete with a Post that has an additional 11" (279 mm) in length, Fascia Bracket (FB4), Stainless Steel Washers (WSHR1), Bolt Cover Buttons (BTN1), and Post Cap (PC45). See page 437B for Lag Bolts or Anchors for mounting to the substrate. Fascia Post Kits are available in your choice of three heights and seven attractive colors, plus mill aluminum. Custom heights and colors are also available.

Standard Kits Include:

CAT. NO.*	DESCRIPTION	POST HEIGHT
1FP536K	36" (914 mm) Fascia Post Kit	47" (1194 mm)
1FP542K	42" (1067 mm) Fascia Post Kit	53" (1346 mm)
1FP548K	48" (1219 mm) Fascia Post Kit	59" (1498 mm)

Minimum order: 1 each. * Specify powder coat color when ordering.

STANDARD COLORS

Sky White Gloss	Oyster White Gloss	Agate Gray Gloss	Beige Gray Gloss	Black Matte	Bronze Matte	Silver Metallic

Colors shown are representative only, and may vary slightly from actual gloss, color, and texture. If color match is critical, please contact Technical Sales for additional information.

Additional Color Options - CRL has over 250 quick turn custom color options with the ability to color match as well.

CRL Outside 135 Degree Fascia Mount Brackets

NEW!

- Specifically Designed for Outside 135 Degree Fascia Mount Installations
- Work With Almost Any Deck
- Seven Standard Colors, Plus Mill Aluminum

Use these CRL Outside 135 Degree Fascia Mount Brackets to attach 135 Degree Vertical Posts to the side of almost any deck.

6"
(152 mm)

Factory Welded Bottom Plate

135°

4"
(102 mm)

7/16" (11 mm) Dia. Mounting Holes

For Replacement Moisture Barrier Gaskets Order Cat. No. BPG4BL Sold Two Per Set.

NOTE: Not for use with our 4" x 4" Vertical Posts.

CAT. NO.	COLOR
FB4W	Sky White
FB40W	Oyster White
FB4AGY	Agate Gray
FB4BGY	Beige Gray
FB4BL	Matte Black
FB4BRZ	Matte Bronze
FB4S	Silver Metallic
FB4CRM	Mill Aluminum

Minimum order: 1 each.

STANDARD COLORS

Sky White Gloss	Oyster White Gloss	Agate Gray Gloss	Beige Gray Gloss	Black Matte	Bronze Matte	Silver Metallic

Colors shown are representative only, and may vary slightly from actual gloss, color, and texture. If color match is critical, please contact Technical Sales for additional information.

Additional Color Options - CRL has over 250 quick turn custom color options with the ability to color match as well.

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TOLL Phone: (800) 421-6144
FREE Fax: (800) 262-3299
From Anywhere in the U.S. or Canada

CRL US ALUMINUM

CRL Inside 135 Degree Fascia Mount Post Kits for 100 Series Rails

NEW!

Standard Kits Include:

- 6005 Alloy Pre-Treated Aluminum/T5 Temper 135 Degree Post Used for Inside Corner Conditions
- Designed to Mount to Almost Any Substrate
- Three Standard Post Heights
- Seven Attractive Colors, Plus Mill Aluminum
- Custom Powder Coat Colors Also Available

CRL 100 Series Inside 135 Degree Fascia Mount Post Kits come complete with a Post that has an additional 11" (279 mm) in length, Fascia Bracket (FB5), Stainless Steel Washers (WSHR1), Bolt Cover Buttons (BTN1), and Post Cap (PC45). See page 437B for Lag Bolts or Anchors for mounting to the substrate. Fascia Post Kits are available in your choice of three heights and seven attractive colors, plus mill aluminum. Custom heights and colors are also available.

CAT. NO.*	DESCRIPTION	POST HEIGHT
1FP5136K	36" (914 mm) Fascia Post Kit	47" (1194 mm)
1FP5142K	42" (1067 mm) Fascia Post Kit	53" (1346 mm)
1FP5148K	48" (1219 mm) Fascia Post Kit	59" (1498 mm)

Minimum order: 1 each. * Specify powder coat color when ordering.

STANDARD COLORS

| Sky White Gloss	Oyster White Gloss	Agate Gray Gloss	Beige Gray Gloss	Black Matte	Bronze Matte	Silver Metallic

Colors shown are representative only, and may vary slightly from actual gloss, color, and texture. If color match is critical, please contact Technical Sales for additional information.

Additional Color Options - CRL has over 250 quick turn custom color options with the ability to color match as well.


CRL Inside 135 Degree Fascia Mount Brackets

NEW!

- Specifically Designed for Inside 135 Degree Fascia Mount Installations
- Work With Almost Any Deck
- Seven Standard Colors, Plus Mill Aluminum

Use these CRL Inside 135 Degree Fascia Mount Brackets to attach 135 Degree Vertical Posts to the side of almost any deck.

4" (102 mm)

6" (152 mm)

7/16" (11 mm) Dia. Mounting Holes

Factory Welded Bottom Plate

135°

For Replacement Moisture Barrier Gaskets Order Cat. No. BPG4BL Sold Two Per Set.

NOTE: Not for use with our 4" x 4" Vertical Posts.

CAT. NO.	COLOR
FB5W	Sky White
FB50W	Oyster White
FB5AGY	Agate Gray
FB5BGY	Beige Gray
FB5BL	Matte Black
FB5BRZ	Matte Bronze
FB5S	Silver Metallic
FB5CRM	Mill Aluminum

Minimum order: 1 each.

STANDARD COLORS

Sky White Gloss	Oyster White Gloss	Agate Gray Gloss	Beige Gray Gloss	Black Matte	Bronze Matte	Silver Metallic

Colors shown are representative only, and may vary slightly from actual gloss, color, and texture. If color match is critical, please contact Technical Sales for additional information.

Additional Color Options - CRL has over 250 quick turn custom color options with the ability to color match as well.

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TOLL Phone: (800) 421-6144
FREE Fax: (800) 262-3299
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CRL US ALUMINUM

CRL Post Caps for 100 Series Rails

- Covers Exposed Edges of 100 Series Vertical Posts
- Seven Attractive Colors, Plus Mill Aluminum Available From Stock
- Custom Powder Coat Colors Also Available

STANDARD COLORS

Sky White Gloss	Oyster White Gloss	Agate Gray Gloss	Beige Gray Gloss	Black Matte	Bronze Matte	Silver Metallic

Colors shown are representative only, and may vary slightly from actual gloss, color, and texture. If color match is critical, please contact Technical Sales for additional information.

Additional Color Options - CRL has over 250 quick turn custom color options with the ability to color match as well.

CRL 100 Series Aluminum Post Caps are designed to fit our 100 Series Vertical Posts. They protect the exposed top edge from weather and debris, and enhance the appearance of the Post. Easily installs with CRL 95C Silicone (see page 125B).

CAT. NO.	COLOR
PC1W	Sky White
PC10W	Oyster White
PC1AGY	Agate Gray
PC1BGY	Beige Gray
PC1BL	Matte Black
PC1BRZ	Matte Bronze
PC1S	Silver Metallic
PC1CRM	Mill Aluminum

Minimum order: 1 each.

CRL Low Profile Post Caps for 100 Series Rails

- Low Profile Pyramid Design
- Seven Attractive Colors, Plus Mill Aluminum Available From Stock
- Custom Powder Coat Colors Also Available

CRL 100 Series Aluminum Low Profile Post Caps are designed to fit our standard 100 Series 2-3/8" (60 mm) square Posts. They protect the exposed top edge from weather and debris, and enhance the appearance of the Post. Easily installs with CRL 95C Silicone (see page 125B).

CAT. NO.	COLOR
PC2W	Sky White
PC20W	Oyster White
PC2AGY	Agate Gray
PC2BGY	Beige Gray
PC2BL	Matte Black
PC2BRZ	Matte Bronze
PC2S	Silver Metallic
PC2CRM	Mill Aluminum

Minimum order: 1 each.

CRL 135 Degree Post Caps for 100 Series Rails

- Seven Attractive Colors, Plus Mill Aluminum Available From Stock
- Custom Powder Coat Colors Also Available

CRL 135 Degree Aluminum Post Caps are designed to fit our 100 Series 135 Degree Vertical Posts. They protect the exposed top edge from weather and debris, and enhance the appearance of the Post. Easily installs with CRL 95C Silicone (see page 125B).

CAT. NO.	COLOR
PC45W	Sky White
PC450W	Oyster White
PC45AGY	Agate Gray
PC45BGY	Beige Gray
PC45BL	Matte Black
PC45BRZ	Matte Bronze
PC45S	Silver Metallic
PC45CRM	Mill Aluminum

Minimum order: 1 each.

CRL Aluminum Railing Stanchions

- Designed for All Series of CRL Aluminum Railings Using Our 2-3/8" (60 mm) Square Aluminum Posts
- Core or Surface Mount

Use these 1-1/2" x 2" (38 x 51 mm) Grade 304 Stainless Steel Stanchions to core or surface mount your Aluminum Railing System. Wet set Core Stanchions in 8000 psi or greater cement (see page 450B for Expanding Cement). Surface Mount Stanchions are welded to a steel base plate, and then powder coated to match our ARS Posts and Bottom Rails. One each Moisture Barrier Gasket Cat. No. BPG1BL is included with each Surface Mount Stanchion.

2-3/8" (60 mm) Square Post

2" (51 mm)
1-1/2" (38 mm)
10" (254 mm)
7/16" (11 mm) Dia. Holes
5" x 5" (127 x 127 mm) Base Plate 3/8" (10 mm) Thick
Welded Connection
Moisture Barrier Gasket

Core Mount Steel Stanchion 4" (102 mm) Embedment in Concrete

Surface Mount Stanchion

Grout Lock Hole

CAT. NO. PST5   **CAT. NO. PST5BP**

CAT. NO.	DESCRIPTION	STANCHION HEIGHT
PST5	Core Mount	10" (254 mm)
PST5BP	Surface Mount*	10" (254 mm)

Minimum order: 1 each. *Specify powder coat color when ordering.

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TOLL Phone: (800) 421-6144
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CRL US ALUMINUM

CRL Aluminum Railing Base Plate Cover

- Designed for Use With Our Standard 2-3/8" (60 mm) Square Aluminum Posts and 5" (127 mm) Square Base Plates
- For Core or Surface Mount Installations
- Seven Attractive Colors, Plus Mill Aluminum Available From Stock
- Custom Powder Coat Colors Also Available

CRL's Aluminum Base Plate Cover was designed for those applications that require the 5" (127 mm) Standard Square Base Plate to be concealed. Aluminum Base Plate Covers are installed with CRL 95C Silicone (see page 125B), and offered in seven standard colors, plus mill aluminum with the ability to custom powder coat.

NOTE: Base Plate Covers are designed for use only with BP5 Standard 5" (127 mm) Square Base Plates, not BP05 Offset Base Plates.
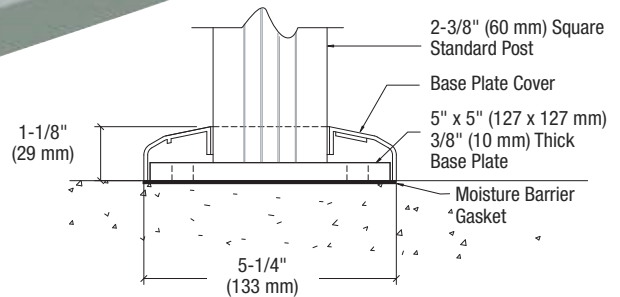
CAT. NO.	COLOR
CVR5W	Sky White
CVR50W	Oyster White
CVR5AGY	Agate Gray
CVR5BGY	Beige Gray
CVR5BL	Matte Black
CVR5BRZ	Matte Bronze
CVR5S	Silver Metallic
CVR5CRM	Mill Aluminum

Minimum order: 1 each.

Diagram labels:
- 2-3/8" (60 mm) Square Standard Post
- Base Plate Cover
- 5" x 5" (127 x 127 mm) 3/8" (10 mm) Thick Base Plate
- Moisture Barrier Gasket
- 1-1/8" (29 mm)
- 5-1/4" (133 mm)

STANDARD COLORS

Sky White Gloss	Oyster White Gloss	Agate Gray Gloss	Beige Gray Gloss	Black Matte	Bronze Matte	Silver Metallic

Colors shown are representative only, and may vary slightly from actual gloss, color, and texture. If color match is critical, please contact Technical Sales for additional information.

Additional Color Options - CRL has over 250 quick turn custom color options with the ability to color match as well.

CRL Standard 5" Square Base Plates

- Seven Standard Colors, Plus Mill Aluminum Available for 2-3/8" (60 mm) Square Aluminum Posts
- 6005 Alloy Pre-Treated Aluminum/T5 Temper

CRL Standard 5" (127 mm) Square Aluminum Base Plates screw into Vertical Post raceways. They are countersunk to accept four Cat. No. BPS112 Base Plate Screws, then attached to the substrate with our Concrete Anchors or Lag Bolts (see page 437B). Use Stainless Steel Washers (WSHR1) and Color Match Bolt Cover Buttons (BTN1) to add a finished look. The BP05 Offset Mount Base Plate design allows Vertical Posts to attach to one side of the Base Plate. One each Cat. No. BPG1BL Moisture Barrier Gasket is included with each Base Plate.

BP5 Center Mount Square Base Plate

Diagram labels:
- 3-3/4" (95 mm)
- 5/8" (16 mm)
- 3-3/4" (95 mm)
- 5" (127 mm)
- 5/8" (16 mm)
- 5" (127 mm)
- Holes for Anchoring Posts
- 3/8" (10 mm) Thick
- 7/16" (11 mm) Dia. Anchoring Holes

CAT. NO.	COLOR
BP5W	Sky White
BP50W	Oyster White
BP5AGY	Agate Gray
BP5BGY	Beige Gray
BP5BL	Matte Black
BP5BRZ	Matte Bronze
BP5S	Silver Metallic
BP5CRM	Mill Aluminum

Minimum order: 1 each.

BP05 Offset Mount Square Base Plate
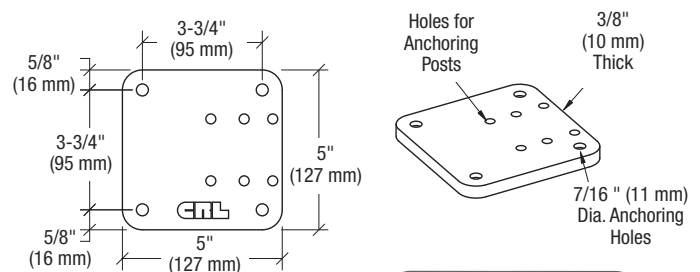
Diagram labels:
- 3-3/4" (95 mm)
- 5/8" (16 mm)
- 3-3/4" (95 mm)
- 5" (127 mm)
- 5/8" (16 mm)
- 5" (127 mm)
- Holes for Anchoring Posts
- 3/8" (10 mm) Thick
- 7/16" (11 mm) Dia. Anchoring Holes

CAT. NO.	COLOR
BP05W	Sky White
BP050W	Oyster White
BP05AGY	Agate Gray
BP05BGY	Beige Gray
BP05BL	Matte Black
BP05BRZ	Matte Bronze
BP05S	Silver Metallic
BP05CRM	Mill Aluminum

Minimum order: 1 each.

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TOLL Phone: (800) 421-6144
FREE Fax: (800) 262-3299
From Anywhere in the U.S. or Canada

CRL
US ALUMINUM

CRL Pickets for 100 Series Rails

- Four Standard Picket Lengths
- 5/8" (16 mm) Square Profile
- Seven Attractive Colors, Plus Mill Aluminum Available From Stock
- Custom Powder Coat Colors Also Available

5/8" (16 mm)

5/8" (16 mm)

.062" (1.6 mm) Wall Thickness
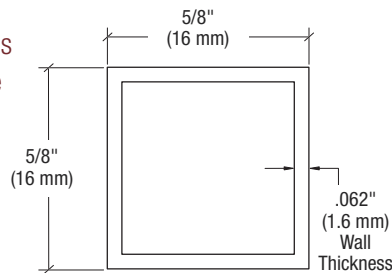
CRL 100 Series Pickets are available in four stock lengths, with custom lengths also available. The Pickets can easily be cut to their required length in the field.

CRL US ALUMINUM® MANUFACTURED IN THE USA

CAT. NO.*	HEIGHT/LENGTH
1PKT36	36" (914 mm)
1PKT42	42" (1066 mm)
1PKT48	48" (1219 mm)
1PKT241	241" (6.12 m)#

Minimum order: 1 each. * Specify powder coat color or mill aluminum when ordering. # Must ship common carrier.

STANDARD COLORS

Sky White Gloss	Oyster White Gloss	Agate Gray Gloss	Beige Gray Gloss	Black Matte	Bronze Matte	Silver Metallic

Colors shown are representative only, and may vary slightly from actual gloss, color, and texture. If color match is critical, please contact Technical Sales for additional information.

Additional Color Options - CRL has over 250 quick turn custom color options with the ability to color match as well.

CRL Picket Spacers for 100 Series Rails

3-7/8" (98 mm)

- Seven Attractive Colors, Plus Mill Aluminum Available From Stock
- Custom Powder Coat Colors Also Available
- Snap On Installation
- 6005 Alloy Pre-Treated Aluminum/T5 Temper

1-1/8" (29 mm)

1/4" (6 mm)

Use CRL 100 Series Aluminum Picket Spacers with our 100 Series Picket Railing. Designed to accommodate 5/8" (16 mm) Square Pickets. Easy to install, simply snap on the 3-7/8" (98 mm) long pre-cut spacer or cut to desired length, then push in for a snap tight fit.

CAT. NO.*	LENGTH
1PS	3-7/8" (98 mm)
1PS241	241" (6.12 m)#

Minimum order: 1 each. * Specify powder coat color or mill aluminum when ordering. # Must ship common carrier.

CRL Picket Vinyl for 100 Series Rails

- Clear Vinyl That is Concealed in Top or Bottom Rails
- Separates Picket From Rails to Eliminate Noise

7/8" (22 mm)

3/4" (19 mm)
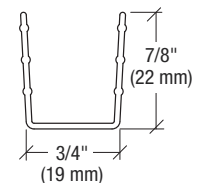
Use CRL 100 Series Clear Picket Vinyl when installing the 100 Series Picket Railing. Designed to accommodate 5/8" (16 mm) Pickets. Easy to install, simply cut to desired length, then push in for a snap tight fit.

CAT. NO.	COLOR	STOCK LENGTH
1PV120	Clear	120" (3.05 m)#

Minimum order: 1 each. # Stock lengths longer than 108" (2.74 m) must ship common carrier unless you specify that we cut them for U.P.S. A Cutting Charge will apply.

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TOLL Phone: (800) 421-6144
FREE Fax: (800) 262-3299
From Anywhere in the U.S. or Canada

CRL US ALUMINUM®

CRL ARS ALUMINUM RAILING SYSTEMS

CRL 200, 300, 350, and 400 Series Aluminum Railing Systems

- Four Different Top Rail Profiles Provide for Most Application Possibilities
- Surface or Fascia Mount Post Systems
- Interchangeable Component Parts

- Seven Standard Colors Plus Mill Aluminum Available From Stock; Custom Colors Available On Request
- Available With Custom Gates
- A.D.A. Compliant Guard Rails

USE MONOLITHIC TEMPERED GLASS

or

USE LAMINATED TEMPERED GLASS

CRL's high quality, versatile commercial or residential 200, 300, 350, and 400 Series Aluminum Railing Systems are manufactured from extruded aluminum framing members, all of which utilize 1/4" to 1/2" (6 to 12 mm) tempered glass, 9/16" (13.52 mm) laminated tempered glass, 3/4" (19 mm) aluminum pickets, cast infills, and stainless steel cable that is engineered to meet applicable building code specifications. Regardless of style or color, every 200, 300, 350, and 400 Series Railing System provides the convenience of having all interchangeable component parts, superior color retention, impact resistance, and weatherability in any environment.

200 Series

ARS 200 Series Aluminum Railing System With Monolithic Tempered Glass

ARS 350 Series Aluminum Railing System With Monolithic Tempered Glass

300 Series
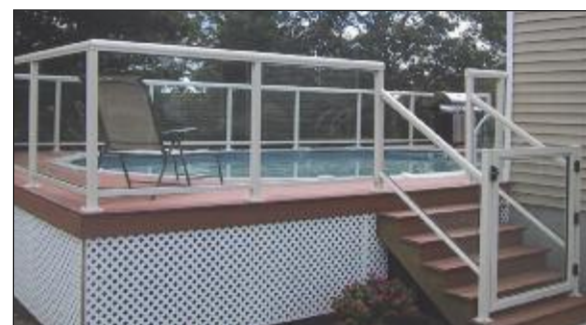
350 Series

ARS 300 Series Aluminum Railing System With Monolithic Tempered Glass

ARS 400 Series Aluminum Railing System With Monolithic Tempered Glass

400 Series

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TOLL Phone: (800) 421-6144
FREE Fax: (800) 262-3299
From Anywhere in the U.S. or Canada

CRL 200, 300, 350, and 400 Series Aluminum Railing Systems

- 6005-T5 Pre-Treated Aluminum Alloy
- Standard Rail Heights are 36", 42", and 48" (914, 1066 and 1219 mm). Custom Rail Heights Also Available
- 2-3/8" (60 mm) Square Aluminum Post
- Infill Panel Options: 1/4" or 3/8" (6 or 10 mm) Glass, 3/4" (19 mm) Square or Round Profile Aluminum Picket Panels, Stainless Steel Cable, or Decorative Cast Panels
- Custom Water Jet/Laser Cut Infills Also Available
- Also 1/2" (12 mm) or 9/16" (13.52 mm) Glass When Used With Wet Glaze Method

- Deck (Top) Mount or Fascia Mount Applications
- Core Mount Applications Also Available
- Exterior and Interior Applications
- Eight Standard Colors, Plus Mill Aluminum Available From Stock
- Custom Powder Coat Colors Also Available
- Can Be Fabricated With Custom Gates
- A.D.A. Compliant Guard Rails
- 60" (1524 mm) Recommended Post Spacing

USE MONOLITHIC TEMPERED GLASS

or

USE LAMINATED TEMPERED GLASS
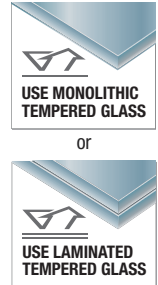
All of our Aluminum Railing Systems can be used with glass, cable, picket, cast, or custom water jet/laser cut infills. The pickets for these systems come in the form of a Picket Panel (see page 440B), which cost a little more than the traditional single snap-in picket system, but will save you time and labor during installation.

NOTE: You cannot use the 200, 300, 350, or 400 Series for stair application where railing is required. The top caps are too wide in cross section to achieve the status as a hand rail. You must use our 100 Series (see pages 401B to 414B) for the stair portion of the job, unless you use a grab rail at stairway areas that require it.

CAT. NO. SCCS8
CRL ARS Standard Color Chip Chain
Minimum order: 1 each

CAT. NO. 3TR241
300 Series Top Rail (shown)

CAT. NO. 2TR241
200 Series Top Rail (see page 417B)

CAT. NO. 35TR241
350 Series Top Rail (see page 417B)

CAT. NO. 4TR241
400 Series Top Rail (see page 417B)

CAT. NO. 1FGLS
Glass Infill

CAT. NO. 14TV or CAT. NO. 38TV
Top Glazing Vinyl

2-3/8" (60 mm) Square Post

CAT. NO. 14BV or CAT. NO. 38BV
Bottom Glazing Vinyl

CAT. NO. BRGLS
300 Series Bottom Rail

CAT. NO. RCBS
Rail Connecting Block Screws

CAT. NO. RCB2
Rail Connecting Block

CAT. NO. BP5
5" (127 mm) Square Base Plate

CAT. NO. BPG1BL
Moisture Barrier Gasket

Pickets

Glass

- Infill Options

ARS 400 Series Aluminum Railing System With Monolithic Tempered Glass

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CRL US ALUMINUM

CRL Aluminum Top Rails for 200, 300, 350, and 400 Series

- ### 20'-1" (6.12 m) Stock Lengths You Cut to Your Requirements

Top Rails for the 200, 300, 350, and 400 Series Railing Systems are sold in 20'-1" (6.12 m) stock lengths that you can cut to fit your exact needs. Powder coated rails come in your choice of seven standard colors, plus mill aluminum or you can select from over 250 Quick Turn colors. Rails require Connecting Blocks to fasten to posts (see page 428B).

NOTE: Series 200, 300, 350, and 400 Rails do not meet stairway code requirements. For stairways you must use our 100 Series Rails (see pages 401B to 414B).

STANDARD COLORS

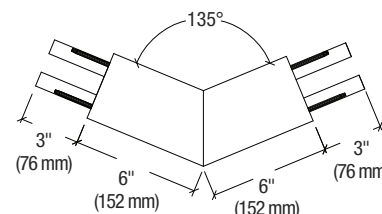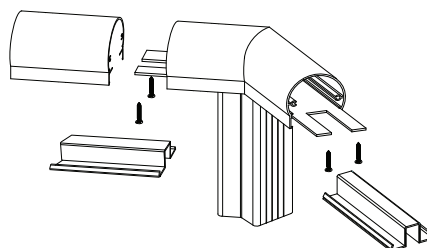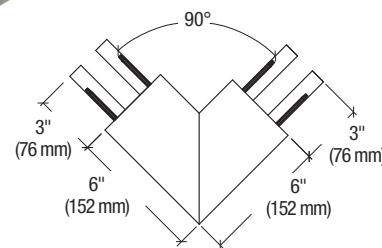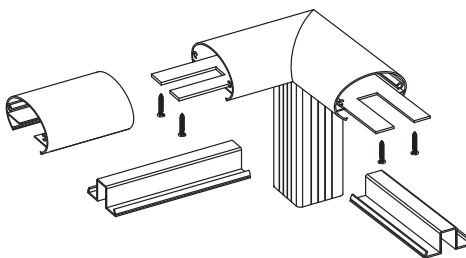| Sky White Gloss	Oyster White Gloss	Agate Gray Gloss	Beige Gray Gloss	Black Matte	Bronze Matte	Silver Metallic

Colors shown are representative only, and may vary slightly from actual gloss, color, and texture. If color match is critical, please contact Technical Sales for additional information.

Additional Color Options - CRL has over 250 quick turn custom color options with the ability to color match as well.

200 Series Top Rail

3-1/2" (89 mm)
1-1/4" (32 mm)
5/8" (16 mm)
1-7/8" (48 mm)
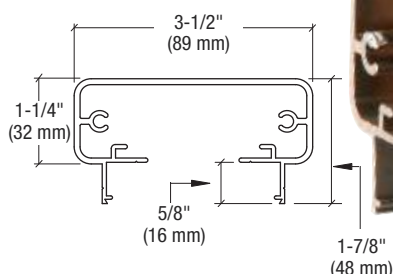
- Designed to Accommodate 3/4" (19 mm) Pickets or 1/4" to 1/2" (6 to 12 mm) Tempered Glass or 9/16" (13.52 mm) Laminated Tempered Glass*

* 1/2" (12 mm) or 9/16" (13.52 mm) Glass only if wet glazed

CAT. NO.	COLOR
2TR241W	Sky White
2TR2410W	Oyster White
2TR241AGY	Agate Gray
2TR241BGY	Beige Gray
2TR241BRZ	Matte Bronze
2TR241BL	Matte Black
2TR241S	Silver Metallic
2TR241CRM	Mill Aluminum

Minimum order: 1 each. Must ship common carrier.

300 Series Top Rail

USE MONOLITHIC TEMPERED GLASS   or   USE LAMINATED TEMPERED GLASS

3" (76 mm)
2-7/8" (73 mm)
2-5/8" (67 mm)
5/8" (16 mm)
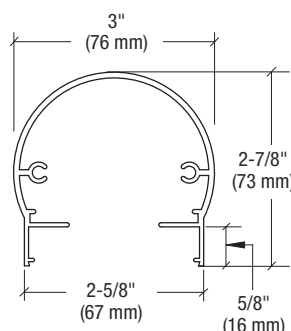
- For Use With 3/4" (19 mm) Pickets or 1/4" to 1/2" (6 to 12 mm) Tempered Glass or 9/16" (13.52 mm) Laminated Tempered Glass*

* 1/2" (12 mm) or 9/16" (13.52 mm) Glass only if wet glazed

CAT. NO.	COLOR
3TR241W	Sky White
3TR2410W	Oyster White
3TR241AGY	Agate Gray
3TR241BGY	Beige Gray
3TR241BRZ	Matte Bronze
3TR241BL	Matte Black
3TR241S	Silver Metallic
3TR241CRM	Mill Aluminum

Minimum order: 1 each. Must ship common carrier.

350 Series Top Rail

3-3/4" (95 mm)
5/8" (16 mm)
2" (51 mm)
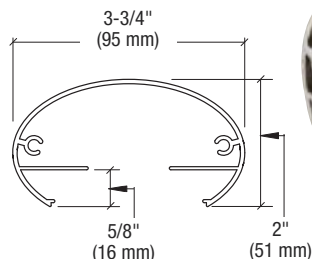
- Will Accept 3/4" (19 mm) Pickets or 1/4" to 1/2" (6 to 12 mm) Tempered Glass or 9/16" (13.52 mm) Laminated Tempered Glass*

* 1/2" (12 mm) or 9/16" (13.52 mm) Glass only if wet glazed

CAT. NO.	COLOR
35TR241W	Sky White
35TR2410W	Oyster White
35TR241AGY	Agate Gray
35TR241BGY	Beige Gray
35TR241BRZ	Matte Bronze
35TR241BL	Matte Black
35TR241S	Silver Metallic
35TR241CRM	Mill Aluminum

Minimum order: 1 each. Must ship common carrier.

400 Series Top Rail

5" (127 mm)
5/8" (16 mm)
2-5/16" (59 mm)
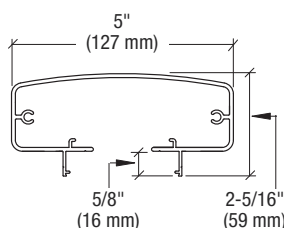
- Can Be Used With 3/4" (19 mm) Pickets or 1/4" to 1/2" (6 to 12 mm) Tempered Glass or 9/16" (13.52 mm) Laminated Tempered Glass*

* 1/2" (12 mm) or 9/16" (13.52 mm) Glass only if wet glazed

CAT. NO.	COLOR
4TR241W	Sky White
4TR2410W	Oyster White
4TR241AGY	Agate Gray
4TR241BGY	Beige Gray
4TR241BRZ	Matte Bronze
4TR241BL	Matte Black
4TR241S	Silver Metallic
4TR241CRM	Mill Aluminum

Minimum order: 1 each. Must ship common carrier.

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CRL Top Rail Infills for 200, 300, 350, and 400 Series Rails

- Easily Snap Into the Underside of the Top Rail
- Seven Attractive Colors, Plus Mill Aluminum to Match Our Posts
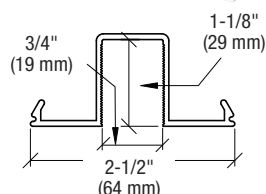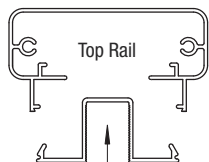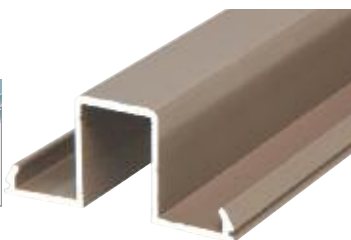
CRL Glass and Picket Top Rail Infills are sold in 20'-1" (6.12 m) stock lengths that can be field cut to the required size. The Infill snaps into the underside of the Top Rail.

Top Rail Infill for Glass

USE MONOLITHIC TEMPERED GLASS

or

USE LAMINATED TEMPERED GLASS

Top Rail

3/4" (19 mm)

1-1/8" (29 mm)

2-1/2" (64 mm)

- Designed to Accommodate 1/4" to 1/2" (6 to 12 mm) Tempered Glass or 9/16" (13.52 mm) Laminated Tempered Glass*

★ 1/2" (12 mm) or 9/16" (13.52 mm) Glass only if wet glazed

CAT. NO.	COLOR
1FGLSW	Sky White
1FGLS0W	Oyster White
1FGLSAGY	Agate Gray
1FGLSBGY	Beige Gray
1FGLSBRZ	Matte Bronze
1FGLSBL	Matte Black
1FGLSS	Silver Metallic
1FGLSCRM	Mill Aluminum

Minimum order: 1 each. See page 427B for color chart.
Must ship common carrier.

Top Rail Infill for Pickets

- For Use With 3/4" (19 mm) Square or Round Pickets

Top Rail

3/4" (19 mm)

1/8" (3 mm)

2-1/2" (64 mm)
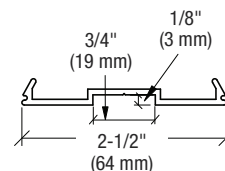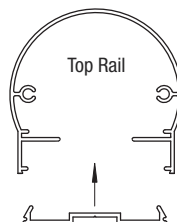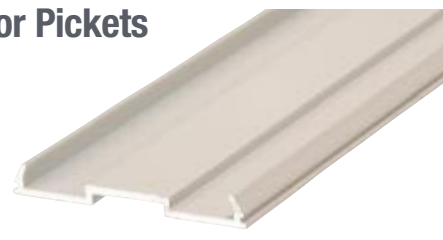
Also available pre-punched for pickets. Contact Railing Technical Sales for details. See page 440B for pickets.

CAT. NO.	COLOR
1FPKTW	Sky White
1FPKT0W	Oyster White
1FPKTAGY	Agate Gray
1FPKTBGY	Beige Gray
1FPKTBRZ	Matte Bronze
1FPKTBL	Matte Black
1FPKTS	Silver Metallic
1FPKTCRM	Mill Aluminum

Minimum order: 1 each. See page 427B for color chart.
Must ship common carrier.

CRL Glazing Vinyl

- Rigid Glazing Vinyl is Designed to Snap in Before the Glass is Installed
- Two Sizes for Use With 1/4" or 3/8" (6 or 10 mm) Thick Tempered Glass
- 12 Ft (3.66 m) Lengths, Custom Lengths on Request

200, 300, 350, and 400 Series Top Rigid Vinyl

Top Rail

3/4" (19 mm)

1-1/16" (27 mm)

CRL 200, 300, 350, and 400 Series Top Rigid Vinyl is available in two sizes to hold 1/4" or 3/8" (6 or 10 mm) glass. When installing Rigid Vinyl, snap it into place before installing the glass. Stock lengths are 12' (3.66 m).

CAT. NO.	DESCRIPTION
14TV	Top Vinyl for 1/4" (6 mm) Thick Glass#
38TV	Top Vinyl for 3/8" (10 mm) Thick Glass#

Minimum order: 1 each. # Must ship common carrier.

200, 300, 350, and 400 Series Bottom Rigid Vinyl

Bottom Rail

9/16" (14 mm)

3/4" (19 mm)

CRL 200, 300, 350, and 400 Series Bottom Rigid Vinyl comes in two sizes to hold 1/4" or 3/8" (6 or 10 mm) glass. When installing Rigid Vinyl, snap it into place before you install the glass. Stock lengths are 12' (3.66 m).

CAT. NO.	DESCRIPTION
14BV	Bottom Vinyl for 1/4" (6 mm) Thick Glass#
38BV	Bottom Vinyl for 3/8" (10 mm) Thick Glass#

Minimum order: 1 each. # Must ship common carrier.

All shapes can be combined for quantity pricing. A Packing Charge will be added to orders of fewer than 5 combined lengths.
Stock lengths longer than 108" (2.74 m) must ship common carrier, unless you specify we cut them for U.P.S. A Cutting Charge will apply.

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CRL End Caps for 200 Series Rails

- Countersunk for End Cap Screws (Sold Separately)

These CRL 200 Series End Caps are designed to screw into the raceways of the Top Rail. End Caps are contoured to match the shape of the 200 Series Top Rail, and are countersunk to allow two Cat. No. ECS1 End Cap Screws (sold separately) to fit flush. Metal thickness is 1/8" (3 mm).

Decorative End Caps

- Matches Contours of Top Rail

Cat. No. ECS1
End Cap Screws
#12 x 3/4" (19 mm)
(sold separately)
Minimum order: 50 each
Sold in increments of 50

CAT. NO.	COLOR
2DECW	Sky White
2DEC0W	Oyster White
2DECAGY	Agate Gray
2DECBGY	Beige Gray
2DECBL	Matte Black
2DECBRZ	Matte Bronze
2DECS	Silver Metallic
2DECCRM	Mill Aluminum
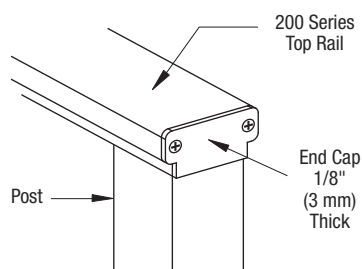
Minimum order: 1 each. See page 427B for color chart.

200 Series Top Rail
Post
End Cap 1/8" (3 mm) Thick

Wall Mount End Caps

- Designed for Wall Mounting the Top Rail

Cat. No. ECS1
End Cap Screws
#12 x 3/4" (19 mm)
(sold separately)
Minimum order: 50 each
Sold in increments of 50

CAT. NO.	COLOR
2WECW	Sky White
2WEC0W	Oyster White
2WECAGY	Agate Gray
2WECBGY	Beige Gray
2WECBL	Matte Black
2WECBRZ	Matte Bronze
2WECS	Silver Metallic
2WECCRM	Mill Aluminum

Minimum order: 1 each. See page 427B for color chart.

Wall Mounted End Cap 1/8" (3 mm) Thick
200 Series Top Rail
Wall Anchor Not Included
Edge of Glass
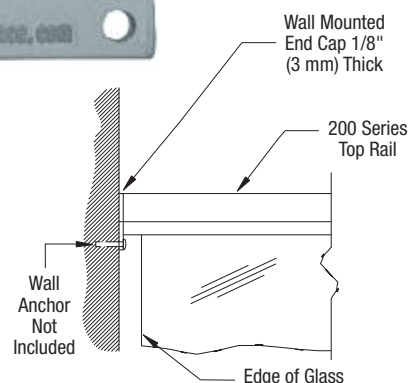
CRL End Caps for 300 Series Rails

- Countersunk for End Cap Screws (Sold Separately)

CRL 300 Series End Caps are designed to screw into the raceways of the Top Rail. End Caps are contoured to match the shape of the 300 Series Top Rail, and are countersunk to allow two Cat. No. ECS1 End Cap Screws (sold separately) to fit flush. Metal thickness is 1/8" (3 mm).

Decorative End Caps

- Matches Contours of Top Rail

Cat. No. ECS1
End Cap Screws
#12 x 3/4" (19 mm)
(sold separately)
Minimum order: 50 each
Sold in increments of 50

CAT. NO.	COLOR
3DECW	Sky White
3DEC0W	Oyster White
3DECAGY	Agate Gray
3DECBGY	Beige Gray
3DECBL	Matte Black
3DECBRZ	Matte Bronze
3DECS	Silver Metallic
3DECCRM	Mill Aluminum
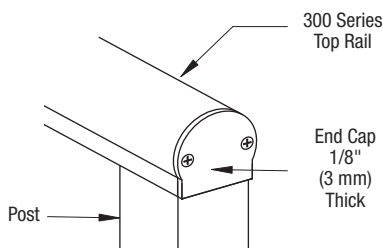
Minimum order: 1 each. See page 427B for color chart.

300 Series Top Rail
Post
End Cap 1/8" (3 mm) Thick

Wall Mount End Caps

- Designed for Wall Mounting the Top Rail

Cat. No. ECS1
End Cap Screws
#12 x 3/4" (19 mm)
(sold separately)
Minimum order: 50 each
Sold in increments of 50

CAT. NO.	COLOR
3WECW	Sky White
3WEC0W	Oyster White
3WECAGY	Agate Gray
3WECBGY	Beige Gray
3WECBL	Matte Black
3WECBRZ	Matte Bronze
3WECS	Silver Metallic
3WECCRM	Mill Aluminum

Minimum order: 1 each. See page 427B for color chart.

Wall Mounted End Cap 1/8" (3 mm) Thick
300 Series Top Rail
Wall Anchor Not Included
Edge of Glass

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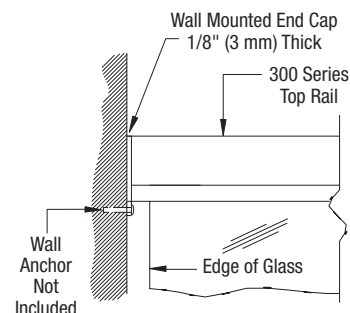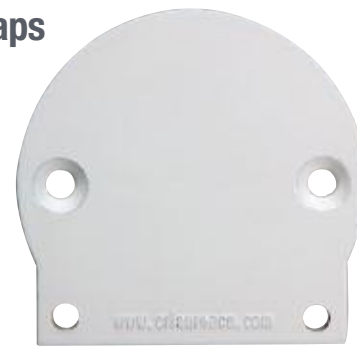
CRL End Caps for 350 Series Rails

These CRL 350 Series End Caps are designed to screw into the raceways of the Top Rail. Shape of Cap matches contours of the 350 Series Top Rail. Countersunk to allow two Cat. No. ECS1 End Cap Screws (sold separately) to fit flush. Metal thickness is 1/8" (3 mm).

• Countersunk for End Cap Screws (Sold Separately)

Decorative End Caps

• Matches Shape of Top Rail

CAT. NO.	COLOR
35DECW	Sky White
35DEC0W	Oyster White
35DECAGY	Agate Gray
35DECBGY	Beige Gray
35DECBL	Matte Black
35DECBRZ	Matte Bronze
35DECS	Silver Metallic
35DECCRM	Mill Aluminum

Minimum order: 1 each. See page 427B for color chart.

350 Series Top Rail

Post

End Cap 1/8" (3 mm) Thick

Cat. No. ECS1 End Cap Screws #12 x 3/4" (19 mm) (sold separately) Minimum order: 50 each. Sold in increments of 50.
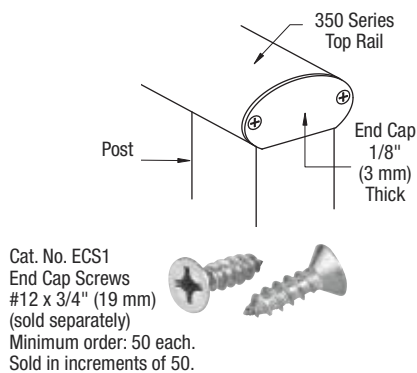
Wall Mount End Caps

• Designed for Wall Mounting the Top Rail

CAT. NO.	COLOR
35WECW	Sky White
35WEC0W	Oyster White
35WECAGY	Agate Gray
35WECBGY	Beige Gray
35WECBL	Matte Black
35WECBRZ	Matte Bronze
35WECS	Silver Metallic
35WECCRM	Mill Aluminum

Minimum order: 1 each. See page 427B for color chart.

Wall Mounted End Cap 1/8" (3 mm) Thickness

350 Series Top Rail

Wall Anchors Not Included

Edge of Glass

Cat. No. ECS1 End Cap Screws #12 x 3/4" (19 mm) (sold separately) Minimum order: 50 each. Sold in increments of 50.
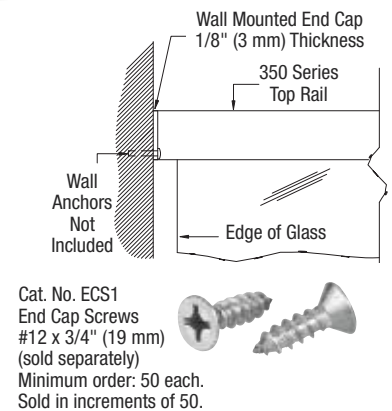
CRL Decorative End Caps for 400 Series Rails

• Matches Shape of Top Rail

These CRL 400 Series End Caps are designed to screw into the raceways of the Top Rail. Shape of Cap matches contours of the 400 Series Top Rail. Countersunk to allow two Cat. No. ECS1 End Cap Screws (sold separately) to fit flush. Metal thickness is 1/8" (3 mm).

CAT. NO.	COLOR
4DECW	Sky White
4DEC0W	Oyster White
4DECAGY	Agate Gray
4DECBGY	Beige Gray
4DECBL	Matte Black
4DECBRZ	Matte Bronze
4DECS	Silver Metallic
4DECCRM	Mill Aluminum

Minimum order: 1 each. See page 427B for color chart.

400 Series Top Rail

Cat. No. ECS1 End Cap Screws #12 x 3/4" (19 mm) (sold separately) Minimum order: 50 each. Sold in increments of 50.

Post

End Cap 1/8" (3 mm) Thick
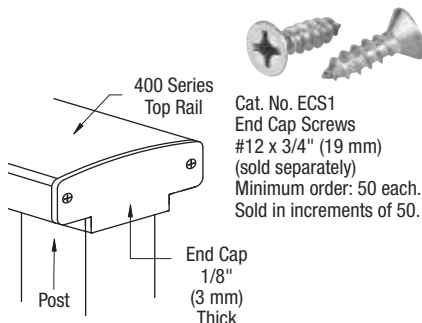
CRL Standard Post/Wall Connecting Blocks

• To Connect Top Rails to Vertical Posts

Use CRL Rail Connecting Blocks to connect the 200, 300, 350 or 400 Series Top Rails to a 4" x 4" Square Post or a wall. Screw Block into index grooves on post using Cat. No. RCBS Rail Connecting Block Screws (see page 428B). Miter cut the 12" or 241" lengths when building stairs, slopes, and angles. All Connecting Blocks are extruded aluminum with a weather resistant chromate finish.

4" x 4" Square Post

RCBS Screw

Rail Connecting Block

1-1/8" (29 mm)

2-3/8" (60 mm)

CAT. NO.	LENGTH
RCB4	1" (25 mm)
RCB412	12" (305 mm)
RCB4241	241" (6.12 m)#

Minimum order: 1 each.
Must ship common carrier.

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CRL 200 Series 90 Degree Horizontal Corners

STANDARD COLORS

| Sky White Gloss | Oyster White Gloss | Agate Gray Gloss | Beige Gray Gloss | Black Matte | Bronze Matte | Silver Metallic |

Colors shown are representative only, and may vary slightly from actual gloss, color, and texture. If color match is critical, please contact Technical Sales for additional information.

Additional Color Options - CRL has over 250 quick turn custom color options with the ability to color match as well.

- Pre-Treated Welded and Finished 6005 Alloy Aluminum/T5 Temper
- Matches Shape of Top Rail
- Seven Standard Colors, Plus Mill Aluminum
- Includes Aluminum Connector Splice Plates
- Custom Angle Corners Also Available

CRL 200 Series Horizontal Corners are fabricated, finished, powder coated and individually packaged. This interior slip-fit corner is designed for 90 degree corner conditions that allow for a hairline joint in the straight sections of the railing without having to miter cut angles in the field. Attach the Corners using CRL Cat. No. TEK1 Tek Screws (see page 428B).

U.S. Patent No. 8,167,274
Commonwealth of Australia
Patent No. 2009201412

- Ready to Install

CAT. NO.	COLOR
2TRHW	Sky White
2TRH0W	Oyster White
2TRHAGY	Agate Gray
2TRHBGY	Beige Gray
2TRHBL	Matte Black
2TRHBRZ	Matte Bronze
2TRHS	Silver Metallic
2TRHCRM	Mill Aluminum

Minimum order: 1 each. All Railing Corners can be combined for quantity pricing.

CRL 200 Series 135 Degree Horizontal Corners

STANDARD COLORS

| Sky White Gloss | Oyster White Gloss | Agate Gray Gloss | Beige Gray Gloss | Black Matte | Bronze Matte | Silver Metallic |

Colors shown are representative only, and may vary slightly from actual gloss, color, and texture. If color match is critical, please contact Technical Sales for additional information.

Additional Color Options - CRL has over 250 quick turn custom color options with the ability to color match as well.

- Pre-Treated Welded and Finished 6005 Alloy Aluminum/T5 Temper
- Matches Shape of Top Rail
- Seven Standard Colors, Plus Mill Aluminum
- Includes Aluminum Connector Splice Plates
- Custom Angle Corners Also Available

CRL 200 Series Horizontal Corners are fabricated, finished, powder coated and individually packaged. This interior slip-fit corner is designed for 135 degree corner conditions that allow for a hairline joint in the straight sections of the railing without having to miter cut angles in the field. Attach the Corners using CRL Cat. No. TEK1 Tek Screws (see page 428B).

U.S. Patent No. 8,167,274
Commonwealth of Australia
Patent No. 2009201412

- Ready to Install

CAT. NO.	COLOR
2TRH3W	Sky White
2TRH30W	Oyster White
2TRH3AGY	Agate Gray
2TRH3BGY	Beige Gray
2TRH3BL	Matte Black
2TRH3BRZ	Matte Bronze
2TRH3S	Silver Metallic
2TRH3CRM	Mill Aluminum

Minimum order: 1 each. All Railing Corners can be combined for quantity pricing.

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CRL 300 Series 90 Degree Horizontal Corners

- Welded and Finished 6005 Alloy Pre-Treated Aluminum/T5 Temper
- Matches Shape of Top Rail
- Seven Standard Colors, Plus Mill Aluminum
- Includes Aluminum Connector Splice Plates
- Custom Angle Corners Also Available

CRL 300 Series Horizontal Corners are fabricated, finished, powder coated and individually packaged. This interior slip-fit corner is designed for 90 degree corner conditions that allow for a hairline joint in the straight sections of the railing without having to miter cut angles in the field. Attach the Corners using CRL Cat. No. TEK1 Tek Screws (see page 428B).

STANDARD COLORS

| Sky White Gloss | Oyster White Gloss | Agate Gray Gloss | Beige Gray Gloss | Black Matte | Bronze Matte | Silver Metallic |

Colors shown are representative only, and may vary slightly from actual gloss, color, and texture. If color match is critical, please contact Technical Sales for additional information.

Additional Color Options - CRL has over 250 quick turn custom color options with the ability to color match as well.

U.S. Patent No. 8,167,274
Commonwealth of Australia
Patent No. 2009201412

- Ready to Install

CAT. NO.	COLOR
3TRHW	Sky White
3TRH0W	Oyster White
3TRHAGY	Agate Gray
3TRHBGY	Beige Gray
3TRHBL	Matte Black
3TRHBRZ	Matte Bronze
3TRHS	Silver Metallic
3TRHCRM	Mill Aluminum

Minimum order: 1 each. All Railing Corners can be combined for quantity pricing.

90°
3" (76 mm)
3" (76 mm)
6" (152 mm)
6" (152 mm)

CRL 300 Series 135 Degree Horizontal Corners

- Welded and Finished 6005 Alloy Pre-Treated Aluminum/T5 Temper
- Matches Shape of Top Rail
- Seven Standard Colors, Plus Mill Aluminum
- Includes Aluminum Connector Splice Plates
- Custom Angle Corners Also Available

CRL 300 Series Horizontal Corners are fabricated, finished, powder coated and individually packaged. This interior slip-fit corner is designed for 135 degree corner conditions that allow for a hairline joint in the straight sections of the railing without having to miter cut angles in the field. Attach the Corners using CRL Cat. No. TEK1 Tek Screws (see page 428B).

STANDARD COLORS

| Sky White Gloss | Oyster White Gloss | Agate Gray Gloss | Beige Gray Gloss | Black Matte | Bronze Matte | Silver Metallic |

Colors shown are representative only, and may vary slightly from actual gloss, color, and texture. If color match is critical, please contact Technical Sales for additional information.

Additional Color Options - CRL has over 250 quick turn custom color options with the ability to color match as well.

U.S. Patent No. 8,167,274
Commonwealth of Australia
Patent No. 2009201412

- Ready to Install

CAT. NO.	COLOR
3TRH3W	Sky White
3TRH30W	Oyster White
3TRH3AGY	Agate Gray
3TRH3BGY	Beige Gray
3TRH3BL	Matte Black
3TRH3BRZ	Matte Bronze
3TRH3S	Silver Metallic
3TRH3CRM	Mill Aluminum

Minimum order: 1 each. All Railing Corners can be combined for quantity pricing.

135°
3" (76 mm)
3" (76 mm)
6" (152 mm)
6" (152 mm)

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TOLL Phone: (800) 421-6144
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CRL US ALUMINUM

CRL 350 Series 90 Degree Horizontal Corners

STANDARD COLORS

| Sky White Gloss | Oyster White Gloss | Agate Gray Gloss | Beige Gray Gloss | Black Matte | Bronze Matte | Silver Metallic |

Colors shown are representative only, and may vary slightly from actual gloss, color, and texture. If color match is critical, please contact Technical Sales for additional information.

Additional Color Options - CRL has over 250 quick turn custom color options with the ability to color match as well.

- Welded and Finished 6005 Alloy Pre-Treated Aluminum/T5 Temper
- Matches Shape of Top Rail
- Seven Standard Colors, Plus Mill Aluminum
- Includes Aluminum Connector Splice Plates
- Custom Angle Corners Also Available

CRL 350 Series Horizontal Corners are fabricated, finished, powder coated and individually packaged. This interior slip-fit corner is designed for 90 degree corner conditions that allow for a hairline joint in the straight sections of the railing without having to miter cut angles in the field. Attach the Corners using CRL Cat. No. TEK1 Tek Screws (see page 428B).

U.S. Patent No. 8,167,274
Commonwealth of Australia
Patent No. 2009201412

- Ready to Install

CAT. NO.	COLOR
35TRHW	Sky White
35TRH0W	Oyster White
35TRHAGY	Agate Gray
35TRHBGY	Beige Gray
35TRHBL	Matte Black
35TRHBRZ	Matte Bronze
35TRHS	Silver Metallic
35TRHCRM	Mill Aluminum

Minimum order: 1 each. All Railing Corners can be combined for quantity pricing.

90°
3" (76 mm)
3" (76 mm)
6" (152 mm)
6" (152 mm)

CRL 350 Series 135 Degree Horizontal Corners

STANDARD COLORS

| Sky White Gloss | Oyster White Gloss | Agate Gray Gloss | Beige Gray Gloss | Black Matte | Bronze Matte | Silver Metallic |

Colors shown are representative only, and may vary slightly from actual gloss, color, and texture. If color match is critical, please contact Technical Sales for additional information.

Additional Color Options - CRL has over 250 quick turn custom color options with the ability to color match as well.

- Welded and Finished 6005 Alloy Pre-Treated Aluminum/T5 Temper
- Matches Shape of Top Rail
- Seven Standard Colors, Plus Mill Aluminum
- Includes Aluminum Connector Splice Plates
- Custom Angle Corners Also Available

CRL 350 Series Horizontal Corners are fabricated, finished, powder coated and individually packaged. This interior slip-fit corner is designed for 135 degree corner conditions that allow for a hairline joint in the straight sections of the railing without having to miter cut angles in the field. Attach the Corners using CRL Cat. No. TEK1 Tek Screws (see page 428B).

U.S. Patent No. 8,167,274
Commonwealth of Australia
Patent No. 2009201412

- Ready to Install

CAT. NO.	COLOR
35TRH3W	Sky White
35TRH30W	Oyster White
35TRH3AGY	Agate Gray
35TRH3BGY	Beige Gray
35TRH3BL	Matte Black
35TRH3BRZ	Matte Bronze
35TRH3S	Silver Metallic
35TRH3CRM	Mill Aluminum

Minimum order: 1 each. All Railing Corners can be combined for quantity pricing.

135°
3" (76 mm)
3" (76 mm)
6" (152 mm)
6" (152 mm)

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CRL
US ALUMINUM

CRL 400 Series 90 Degree Horizontal Corners

- Welded and Finished 6005 Alloy Pre-Treated Aluminum/T5 Temper
- Matches Shape of Top Rail
- Seven Standard Colors, Plus Mill Aluminum
- Includes Aluminum Connector Splice Plates
- Custom Angle Corners Also Available

CRL 400 Series Horizontal Corners are fabricated, finished, powder coated and individually packaged. This interior slip-fit corner is designed for 90 degree corner conditions that allow for a hairline joint in the straight sections of the railing without having to miter cut angles in the field. Attach the Corners using CRL Cat. No. TEK1 Tek Screws (see page 428B).

STANDARD COLORS

| Sky White Gloss | Oyster White Gloss | Agate Gray Gloss | Beige Gray Gloss | Black Matte | Bronze Matte | Silver Metallic |

Colors shown are representative only, and may vary slightly from actual gloss, color, and texture. If color match is critical, please contact Technical Sales for additional information.

Additional Color Options - CRL has over 250 quick turn custom color options with the ability to color match as well.

- Ready to Install

U.S. Patent No. 8,167,274
Commonwealth of Australia
Patent No. 2009201412

CAT. NO.	COLOR
4TRHW	Sky White
4TRH0W	Oyster White
4TRHAGY	Agate Gray
4TRHBGY	Beige Gray
4TRHBL	Matte Black
4TRHBRZ	Matte Bronze
4TRHS	Silver Metallic
4TRHCRM	Mill Aluminum

Minimum order: 1 each. All Railing Corners can be combined for quantity pricing.

90°
2-3/4" (70 mm)
2-3/4" (70 mm)
7" (178 mm)
7" (178 mm)

CRL 400 Series 135 Degree Horizontal Corners

- Welded and Finished 6005 Alloy Pre-Treated Aluminum/T5 Temper
- Matches Shape of Top Rail
- Seven Standard Colors, Plus Mill Aluminum
- Includes Aluminum Connector Splice Plates
- Custom Angle Corners Also Available

CRL 400 Series Horizontal Corners are fabricated, finished, powder coated and individually packaged. This interior slip-fit corner is designed for 135 degree corner conditions that allow for a hairline joint in the straight sections of the railing without having to miter cut angles in the field. Attach the Corners using CRL Cat. No. TEK1 Tek Screws (see page 428B).

STANDARD COLORS

| Sky White Gloss | Oyster White Gloss | Agate Gray Gloss | Beige Gray Gloss | Black Matte | Bronze Matte | Silver Metallic |

Colors shown are representative only, and may vary slightly from actual gloss, color, and texture. If color match is critical, please contact Technical Sales for additional information.

Additional Color Options - CRL has over 250 quick turn custom color options with the ability to color match as well.

- Ready to Install

U.S. Patent No. 8,167,274
Commonwealth of Australia
Patent No. 2009201412

CAT. NO.	COLOR
4TRH3W	Sky White
4TRH30W	Oyster White
4TRH3AGY	Agate Gray
4TRH3BGY	Beige Gray
4TRH3BL	Matte Black
4TRH3BRZ	Matte Bronze
4TRH3S	Silver Metallic
4TRH3CRM	Mill Aluminum

Minimum order: 1 each. All Railing Corners can be combined for quantity pricing.

135°
3" (76 mm)
3" (76 mm)
6" (152 mm)
6" (152 mm)

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CRL Corner Brackets for 200, 300, and 400 Series Rails

135 Degree
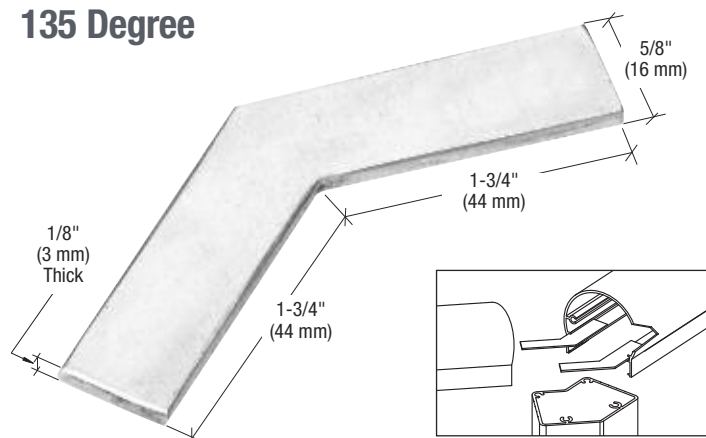
The CRL 135 Degree Corner Bracket was designed to fit underneath our 200, 300, and 400 Series Top Rails. Brackets are held in place with four Cat. No. TEK1 Self-Tapping Tek Screws (see page 428B). Two Brackets are required to butt-join a mitered Top Rail together, then are attached to an ARS Vertical Post. Aluminum Brackets are concealed under the Top Rail to connect corners.

CAT. NO.	DESCRIPTION
45CB	135 Degree Bracket

Minimum order: 1 each. **NOTE:** Cannot be used for 350 Series Rails.

90 Degree
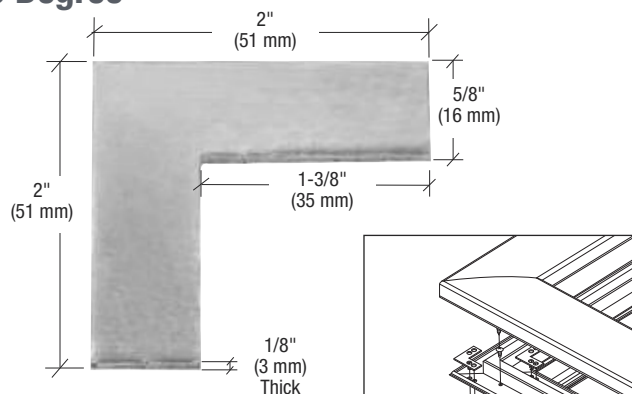
CRL 90 Degree Corner Brackets fit underneath our 200, 300, and 400 Series Top Rails. Brackets are held in place with four Cat. No. TEK1 Tek Screws (see page 428B). Two Brackets are required to butt-join a mitered Top Rail together, then are attached to an ARS Vertical Post. Aluminum Brackets are concealed under the Top Rail to connect corners.

CAT. NO.	DESCRIPTION
90CB	90 Degree Bracket

Minimum order: 1 each. **NOTE:** Cannot be used for 350 Series Rails.

CRL Splice Plates and Pins for 200, 300, and 400 Series Rails

- Splice Plates and Pins Fit Under Top Rail to Splice Rails Together Over a Post

Splice Plate

4" (102 mm)

5/8" (16 mm)

1/8" (3 mm) Thick

Splice Pin

4" (102 mm)

3/16" (5 mm)
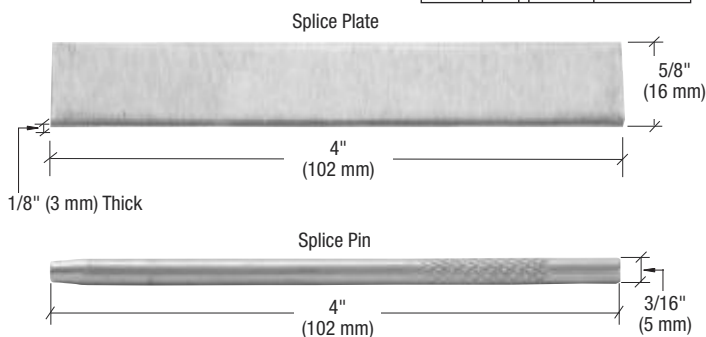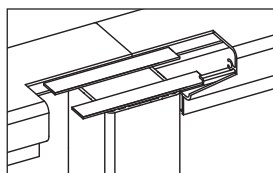
These CRL Splice Plates and Pins were designed to fit underneath our 200, 300, and 400 Series Top Rails. Plates are held in place with two Cat. No. TEK1 Self-Tapping Tek Screws (see page 428B). Two Plates and two Pins are required at each splice joint.

CAT. NO.	DESCRIPTION
TCP1	Splice Plate
TCP2	Splice Pin*

Minimum order: 1 each. *Minimum order 1 pair. **NOTE:** Cannot be used for 350 Series Rails.

CRL Adjustable Fastening Plates for Top Rails

- Aluminum Plates Attach to Top of Vertical Post Then to Top Rail
- Must Be Used for 350 Series Rails

2-11/16" (68 mm)

2-3/8" (60 mm) Right Hand

#14 Screws For Plates
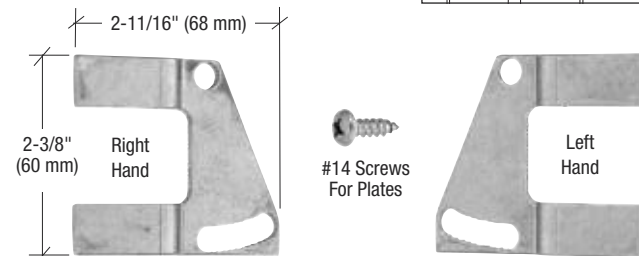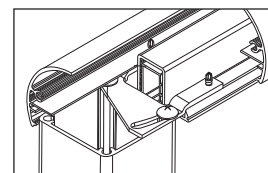
Left Hand

The CRL Adjustable Fastening Plate was designed to first attach to the top of the ARS Vertical Posts, then underneath the Top Rails of our 200, 300, 350, and 400 Series Railings. Plates are held in place with Cat. No. CBS1 Pan Head Screws. Two Left Hand Plates are required to butt-join straight Top Rails together. Use one of each Left Hand and Right Hand to butt-join Mitered Top Rails.

CAT. NO.	DESCRIPTION
CB350L	Left Hand Plate
CB350R	Right Hand Plate
CBS1	#14 x 3/4" (19 mm) Screw*

Minimum order: 1 each. Can not be used with our 100 Series Railing.
* Minimum order: 50 each. Must be ordered in increments of 50.

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CRL US ALUMINUM

CRL Horizontal Mid-Rail for 200, 300, 350, and 400 Series Rails

- Designed to Accommodate 1/4" to 1/2" (6 to 12 mm) Tempered Glass, 9/16" (13.52 mm) Laminated Tempered Glass or 3/4" (19 mm) Square Pickets
- Anchored Between Posts Using RCB2 Mounting Blocks
- Seven Standard Colors, Plus Mill Aluminum
- Custom Powder Coat Colors Also Available

CRL Horizontal Mid-Rail is designed to accommodate Glass or Picket Infills. For glass applications use MR1F Glass Snap-In Infill (see below). For Picket applications use our BRF241 Bottom Rail Filler (see page 427B). Stock lengths measure 20'-1" (6.12 m). See page 428B for Rail Connecting Blocks. See page 427B for standard color chart.

1-11/16" (43 mm)
1-3/4" (45 mm)

USE MONOLITHIC TEMPERED GLASS
or
USE LAMINATED TEMPERED GLASS

Horizontal Mid-Rail
Horizontal Snap-In Infill
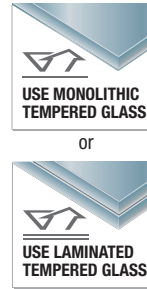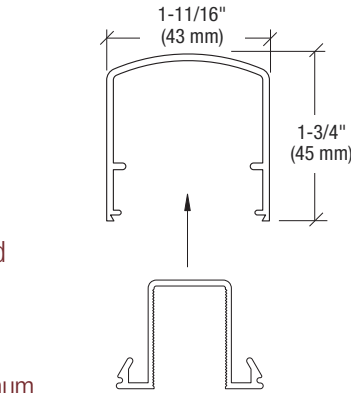
CAT. NO.	COLOR
MR1W	Sky White
MR10W	Oyster White
MR1AGY	Agate Gray
MR1BGY	Beige Gray
MR1BL	Matte Black
MR1BRZ	Matte Bronze
MR1S	Silver Metallic
MR1CRM	Mill Aluminum

Minimum order: 1 each. Must ship common carrier.

CRL Horizontal Snap-In Infill for Glass

- Designed to Accommodate 1/4" to 1/2" (6 to 12 mm) Tempered Glass or 9/16" (13.52 mm) Laminated Tempered Glass
- Anchored Between Posts Using RCB2 Mounting Blocks
- Snaps In From the Underside of the Horizontal Mid-Rail
- Seven Standard Colors, Plus Mill Aluminum
- Custom Powder Coat Colors Also Available

CRL Horizontal Snap-In Infill for Glass is designed to accommodate 1/4" to 3/8" (6 to 10 mm) glass with vinyl or 1/2" (12 mm) or 9/16" (13.52 mm) glass wet glazed with CRL 95C Silicone (see page 125B). The Glass Snap-In Infill is designed to snap into the underside of the MR1 Horizontal Mid-Rail (see above). Stock lengths measure 20'-1" (6.12 m). See page 428B for Rail Connecting Blocks. See page 427B for standard color chart.

USE MONOLITHIC TEMPERED GLASS
or
USE LAMINATED TEMPERED GLASS

1-1/16" (27 mm)
3/4" (19 mm)

Horizontal Mid-Rail
Horizontal Snap-In Infill
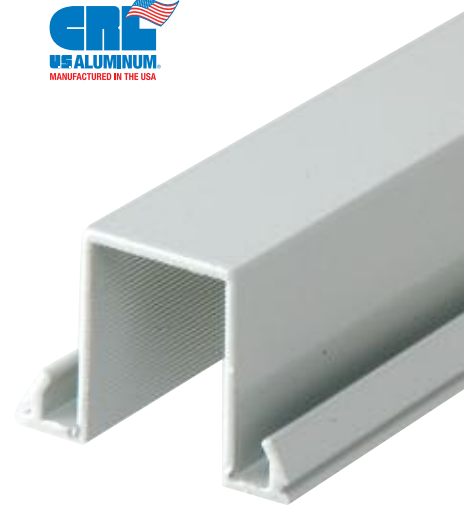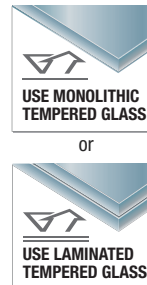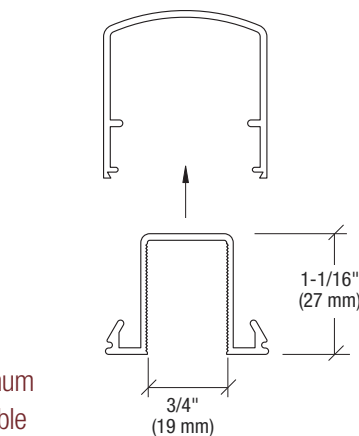
CAT. NO.	COLOR
MR1FW	Sky White
MR1F0W	Oyster White
MR1FAGY	Agate Gray
MR1FBGY	Beige Gray
MR1FBL	Matte Black
MR1FBRZ	Matte Bronze
MR1FS	Silver Metallic
MR1FCRM	Mill Aluminum

Minimum order: 1 each. Must ship common carrier.

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CRL US ALUMINUM

CRL Bottom Glass Rail for 200, 300, 350, and 400 Series Rails

- Bottom Rail Designed to Accommodate 1/4" to 1/2" (6 to 12 mm) Tempered Glass or 9/16" (13.52 mm) Laminated Tempered Glass*
- Seven Standard Colors, Plus Mill Aluminum

3/4" (19 mm)
1/2" (13 mm) Pocket Depth
1-3/4" (45 mm)
1-5/8" (41 mm)
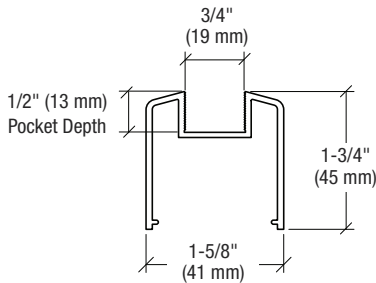
*1/2 and 9/16" (12 and 13.52 mm) Glass only if wet glazed.

Our 200, 300, 350, and 400 Series Bottom Rail simply snaps over Rail Connecting Block for an easy install. Stock lengths measure 20'-1" (6.12 m).

CAT. NO.	COLOR
BRGLSW	Sky White
BRGLS0W	Oyster White
BRGLSAGY	Agate Gray
BRGLSBGY	Beige Gray
BRGLSBL	Matte Black
BRGLSBRZ	Matte Bronze
BRGLSS	Silver Metallic
BRGLSCRM	Mill Aluminum

Minimum order: 1 each. Must ship common carrier.

CRL Bottom Picket Rail for 200, 300, 350, and 400 Series Rails

- Designed to Accommodate 3/4" (19 mm) Square or Round Pickets
- Optional Bottom Rail Filler Available
- Seven Standard Colors, Plus Mill Aluminum

3/4" (19 mm)
1-3/4" (45 mm)
1-3/4" (45 mm)
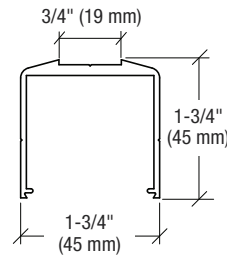
CAT. NO.	COLOR
BRPKTW	Sky White
BRPKT0W	Oyster White
BRPKTAGY	Agate Gray
BRPKTBGY	Beige Gray
BRPKTBL	Matte Black
BRPKTBRZ	Matte Bronze
BRPKTS	Silver Metallic
BRPKTCRM	Mill Aluminum

Minimum order: 1 each. Must ship common carrier.

The 200, 300, 350, and 400 Series Picket Bottom Rail is designed to accommodate 3/4" (19 mm) Square or Round Pickets. Simply snaps over Rail Connecting Block for an easy install. Stock lengths measure 20'-1" (6.12 m).

CRL Standard Bottom Rail Filler for 200, 300, 350, and 400 Series Rails

- Snaps in to Conceal the Underside of Bottom Rails and Create a Flush Look
- Works With Either Bottom Rail for Glass or Bottom Rail for Pickets
- Also Works With Horizontal Mid-Rails

1-1/2" (38 mm)

CAT. NO.	COLOR
BRF241W	Sky White
BRF2410W	Oyster White
BRF241AGY	Agate Gray
BRF241BGY	Beige Gray
BRF241BL	Matte Black
BRF241BRZ	Matte Bronze
BRF241S	Silver Metallic
BRF241CRM	Mill Aluminum

Minimum order: 1 each. Must ship common carrier.
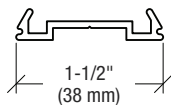
CRL Standard Bottom Rail Filler is designed to finish off the underside of Bottom Rail to create a flush look. Stock lengths measure 20'-1" (6.12 m).

CRL Touch-Up Paint

- Used to Cover Scratches or Bare Metal Ends
- Matches Seven CRL Powder Paint Colors

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CAT. NO.	COLOR
SP8W	Sky White
SP80W	Oyster White
SP8AGY	Agate Gray
SP8BGY	Beige Gray
SP8BL	Matte Black
SP8BRZ	Matte Bronze
SP8S	Silver Metallic

Minimum order: 1 each.

STANDARD COLORS

Sky White Gloss	Oyster White Gloss	Agate Gray Gloss	Beige Gray Gloss	Black Matte	Bronze Matte	Silver Metallic

Use CRL Touch-Up Paint to touch up scratches or bare metal ends. It can be applied at the job site, thus eliminating the need for costly dismantling and reassembling of the affected parts. Touch-Up Paint is a cost and labor saver. 12 oz. (340 g) per can.

Colors shown are representative only, and may vary slightly from actual gloss, color, and texture. If color match is critical, please contact Technical Sales for additional information.

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CRL Rail Connecting Blocks for 200, 300, 350, and 400 Series Rails

- Designed for Use When Installing the 200, 300, 350 or 400 Series Bottom Rails
- Three Standard Lengths Available

Use CRL Rail Connecting Blocks to connect Bottom Rails to vertical posts. Screw Blocks into index grooves on post using Cat. No. RCBS Rail Connecting Block Screws (see below). Miter cut the 12" or 241" lengths when building angles and slopes. All Connecting Blocks are extruded aluminum with a weather resistant finish.

CAT. NO.	LENGTH
RCB2	1" (25 mm)
RCB212	12" (305 mm)
RCB2241	241" (6.12 m)#

Minimum order: 1 each. # Must ship common carrier.

CRL Rail Connecting Block Screws

- For 200, 300, 350, and 400 Series Railings
- Self-Tapping
- Stainless Steel

#10 x 2" Rail Connecting Block Screw

Square Insert Bit
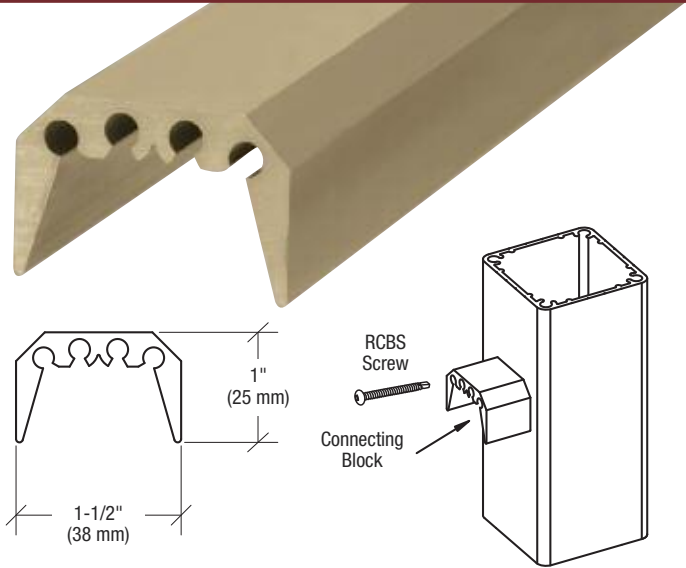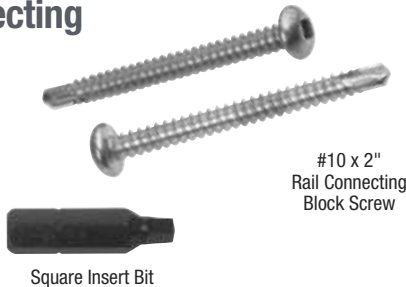
Use CRL Rail Connecting Block Screws when installing 200, 300, 350, and 400 Series Rail Connecting Blocks. RCB Screws are stainless steel #10 x 2", and have special crosscuts which allow them to tap their own threads in aluminum. Screws require Cat. No. 9502 1/8" (3 mm) size Square Insert Bit to install.

CAT. NO.	DESCRIPTION	SIZE
RCBS	Rail Connecting Block Screw	#10 x 2" (51 mm)▲
9502	Square Insert Bit for Screws	1/8" (3 mm)#

▲ Minimum order: 50 each. Must be ordered in increments of 50. # Minimum order: 1 each.

CRL Tek Screws

- For 200, 300, 350, and 400 Series Railings
- Self-Tapping
- Stainless Steel

#8 x 3/4" Rail Fastening Screw

Square Insert Bit
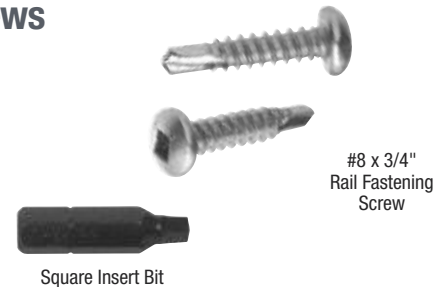
Use CRL Self-Tapping Tek Screws with installation of 200, 300, 350, and 400 Series Railings. Tek Screws are stainless steel #8 x 3/4", and have special crosscuts which allow them to tap their own threads in aluminum. Screws require Cat. No. 9502 1/8" (3 mm) size Square Insert Bit to install.

CAT. NO.	DESCRIPTION	SIZE
TEK1	Rail Fastening Screw	#8 x 3/4" (19 mm)▲
9502	Square Insert Bit for Screws	1/8" (3 mm)#

▲ Minimum order: 50 each. Must be ordered in increments of 50. # Minimum order: 1 each.

CRL Intermediate Bottom Support

- For Use With All of Our Aluminum Railings
- Seven Standard Colors to Match Our Bottom Rails, Plus Mill Aluminum

The CRL Intermediate Bottom Support was designed to fit underneath the Bottom Rail for additional strength. Connects to Bottom Rail with two Cat. No. TEK1 Self-Tapping Tek Screws (see above). Support is 12" (305 mm) in length.

CAT. NO.	COLOR
1BSW	Sky White
1BS0W	Oyster White
1BSAGY	Agate Gray
1BSBGY	Beige Gray
1BSBL	Matte Black
1BSBRZ	Matte Bronze
1BSS	Silver Metallic
1BSCRM	Mill Aluminum

Minimum order: 1 each.

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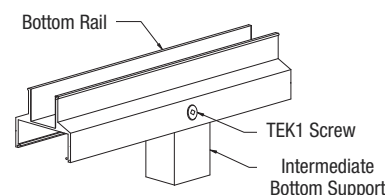
CRL Surface Mount Post Kits for 200, 300, 350, and 400 Series Rails

- 6005 Alloy Pre-Treated Aluminum/T5 Temper 2-3/8" (60 mm) Square
- Use for 180 Degree, 90 Degree or End Posts
- Three Standard Post Heights
- Complete With Base Plate, Stainless Washers, Screws,and Bolt Cover Buttons
- Seven Standard Colors, Plus Mill Aluminum

CRL 200, 300, 350, and 400 Series Surface Mount Post Kits come complete with Base Plate (BP5), Moisture Barrier Gasket (BPG1BL), Base Plate Screws (BPS112), Stainless Steel Washers (WSHR1), and Color Match Bolt Cover Buttons (BTN1). Standard Post Kits are available in your choice of three heights and seven attractive colors, plus mill aluminum. Custom heights and colors are also available.

Standard Kits Include:

CAT. NO.*	DESCRIPTION	POST HEIGHT
P36K	36" Post Kit	36" (914 mm)
P42K	42" Post Kit	42" (1066 mm)
P48K	48" Post Kit	48" (1219 mm)

Minimum order 1 each. *Specify powder coat color or mill aluminum when ordering.

STANDARD COLORS

Sky White Gloss	Oyster White Gloss	Agate Gray Gloss	Beige Gray Gloss	Black Matte	Bronze Matte	Silver Metallic

Colors shown are representative only, and may vary slightly from actual gloss, color, and texture. If color match is critical, please contact Technical Sales for additional information.

Additional Color Options - CRL has over 250 quick turn custom color options with the ability to color match as well.

CRL Posts Only for 200, 300, 350, and 400 Series Rails

- 6005 Alloy Pre-Treated Aluminum/T5 Temper 2-3/8" (60 mm) Square
- Use for 180 Degree, 90 Degree or End Posts
- Three Standard Post Heights
- Seven Standard Colors, Plus Mill Aluminum

CRL 200, 300, 350, and 400 Series Aluminum Posts are available in your choice of three heights and seven attractive colors, plus mill aluminum. You can also cut custom posts from our 20'-1" (6.12 m) stock length. Custom heights and colors are also available.

.100" (2.5 mm) Wall Thickness

2-3/8" (60 mm)

2-3/8" (60 mm)

CAT. NO.*	DESCRIPTION	HEIGHT/LENGTH
P36	36" Post	36" (914 mm)
P42	42" Post	42" (1066 mm)
P48	48" Post	48" (1219 mm)
P241	20'-1" Stock Length	241" (6.12 m)#

Minimum order 1 each. * Specify powder coat color or mill aluminum when ordering.
Must ship common carrier.

STANDARD COLORS

Sky White Gloss	Oyster White Gloss	Agate Gray Gloss	Beige Gray Gloss	Black Matte	Bronze Matte	Silver Metallic

Colors shown are representative only, and may vary slightly from actual gloss, color, and texture. If color match is critical, please contact Technical Sales for additional information.

Additional Color Options - CRL has over 250 quick turn custom color options with the ability to color match as well.
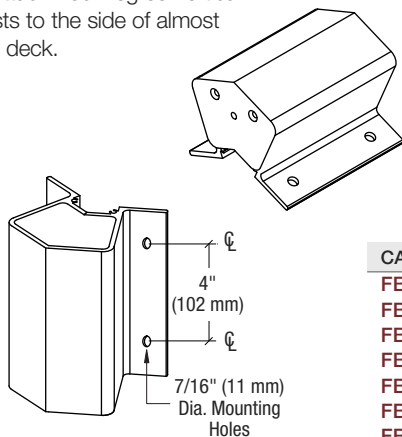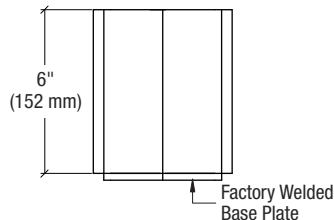
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429B

TOLL Phone: (800) 421-6144
FREE Fax: (800) 262-3299
From Anywhere in the U.S. or Canada

CRL US ALUMINUM

CRL 135 Degree Surface Mount Post Kits for 200, 300, 350, and 400 Series Rails

- Three Standard Post Heights
- Complete With Base Plate, Moisture Barrier Gasket, Screws, Stainless Washers, and Bolt Cover Buttons
- Designed to Be Installed Onto Concrete, Wood, Steel, and Other Substrates
- Seven Standard Colors, Plus Mill Aluminum

CRL 135 Degree Post Kits come complete with Base Plate (BP5), Moisture Barrier Gasket (BPG1BL), Base Plate Screws (BPS112), Stainless Steel Washers (WSHR1), and Color Match Bolt Cover Buttons (BTN1). Standard Post Kits are available in your choice of three heights and seven attractive colors, plus mill aluminum. Custom heights and colors are also available.

Standard Kits Include:

CAT. NO.*	DESCRIPTION	POST HEIGHT
P536K	36" 135 Degree Post Kit	36" (914 mm)
P542K	42" 135 Degree Post Kit	42" (1066 mm)
P548K	48" 135 Degree Post Kit	48" (1219 mm)

Minimum order 1 each. *Specify powder coat color or mill aluminum when ordering.

STANDARD COLORS

Sky White Gloss	Oyster White Gloss	Agate Gray Gloss	Beige Gray Gloss	Black Matte	Bronze Matte	Silver Metallic

Colors shown are representative only, and may vary slightly from actual gloss, color, and texture. If color match is critical, please contact Technical Sales for additional information.

Additional Color Options - CRL has over 250 quick turn custom color options with the ability to color match as well.

CRL 135 Degree Posts Only for 200, 300, 350, and 400 Series Rails

- Three Standard Post Heights Plus a Stock Length You Can Cut to the Needed Size
- Seven Standard Colors, Plus Mill Aluminum

CRL 135 Degree Posts are available in your choice of three heights and seven attractive colors, plus mill aluminum. Custom heights and colors are also available. You can also order our 20'-1" (6.12 m) stock length to cut posts of any height required. These posts are designed to be installed onto concrete, wood, steel, and other substrates. Can be core mounted or surface mounted.

.100" (2.5 mm) Wall Thickness
2-1/8" (54 mm)
2-3/8" (60 mm)
2-3/8" (60 mm)
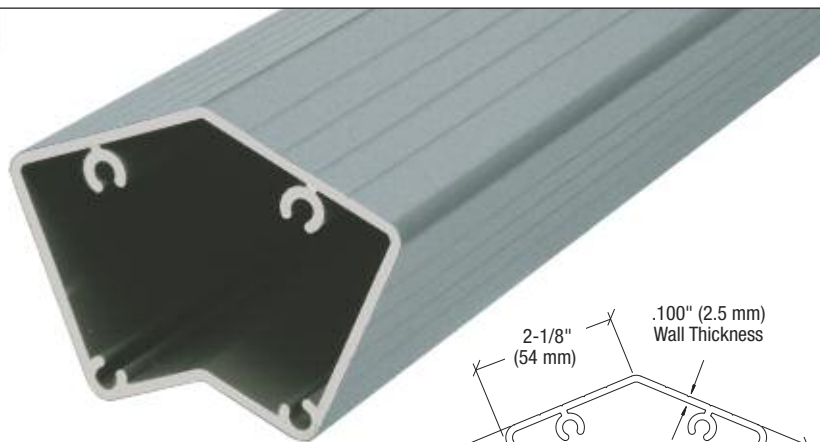
CAT. NO.*	DESCRIPTION	HEIGHT/LENGTH
P536	36" 135 Degree Post	36" (914 mm)
P542	42" 135 Degree Post	42" (1066 mm)
P548	48" 135 Degree Post	48" (1219 mm)
P5241	20'-1" Stock Length	241" (6.12 m)#

Minimum order 1 each. * Specify powder coat color or mill aluminum when ordering.
Must ship common carrier.

STANDARD COLORS

Sky White Gloss	Oyster White Gloss	Agate Gray Gloss	Beige Gray Gloss	Black Matte	Bronze Matte	Silver Metallic

Colors shown are representative only, and may vary slightly from actual gloss, color, and texture. If color match is critical, please contact Technical Sales for additional information.

Additional Color Options - CRL has over 250 quick turn custom color options with the ability to color match as well.

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TOLL Phone: (800) 421-6144
FREE Fax: (800) 262-3299
From Anywhere in the U.S. or Canada

CRL Fascia Mount Posts Only for 200, 300, 350, and 400 Series Rails

- 2-3/8" (60 mm) Square 6005 Alloy Pre-Treated Aluminum/T5 Temper
- Three Standard Post Heights, Plus a Stock Length You Can Cut to Size
- Seven Standard Colors, Plus Mill Aluminum
- Custom Colors Also Available

CRL 200, 300, 350, and 400 Series Aluminum Fascia Posts have an additional 10" (254 mm) in length to accommodate fascia mount installations. They are available in your choice of three heights and seven attractive colors, plus mill aluminum. You can also cut custom posts from our 20'-1" (6.12 m) stock length. Custom heights and colors are also available.

.100" (2.5 mm) Wall Thickness

2-3/8" (60 mm)

2-3/8" (60 mm)

CAT. NO.*	DESCRIPTION	HEIGHT/LENGTH
FP36	36" Fascia Post	46" (1168 mm)
FP42	42" Fascia Post	52" (1320 mm)
FP48	48" Fascia Post	58" (1473 mm)
P241	20'-1" Stock Length	241" (6.12 m)#

Minimum order 1 each. * Specify powder coat color or mill aluminum when ordering.
Must ship common carrier.

STANDARD COLORS

Sky White Gloss	Oyster White Gloss	Agate Gray Gloss	Beige Gray Gloss	Black Matte	Bronze Matte	Silver Metallic

Colors shown are representative only, and may vary slightly from actual gloss, color, and texture. If color match is critical, please contact Technical Sales for additional information.

Additional Color Options - CRL has over 250 quick turn custom color options with the ability to color match as well.

CRL Fascia Mount 135 Degree Posts Only for 200, 300, 350, and 400 Series Rails

NEW!

- 6005 Alloy Pre-Treated Aluminum/T5 Temper
- Three Standard Post Heights Plus a Stock Length You Can Cut to Size
- Seven Attractive Colors, Plus Mill Aluminum Available From Stock
- Custom Powder Coat Colors Also Available

CRL 135 Degree 200, 300, 350, and 400 Series Aluminum Fascia Posts have an additional 10" (254 mm) in length to accommodate fascia mount installations. They are available in your choice of three heights and seven attractive colors, plus mill aluminum. You can also cut custom posts from our 20'-1" (6.12 m) stock length. Custom heights and colors are also available.

2-1/8" (54 mm)

.100" (2.5 mm) Wall Thickness

2-3/8" (60 mm)

2-3/8" (60 mm)

CAT. NO.*	DESCRIPTION	HEIGHT/LENGTH
FP536	36" Fascia Post	46" (1168 mm)
FP542	42" Fascia Post	52" (1320 mm)
FP548	48" Fascia Post	58" (1473 mm)
P5241	20'-1" Stock Length	241" (6.12 m)#

Minimum order: 1 each. * Specify powder coat color or mill aluminum when ordering. # Must ship common carrier.

STANDARD COLORS

Sky White Gloss	Oyster White Gloss	Agate Gray Gloss	Beige Gray Gloss	Black Matte	Bronze Matte	Silver Metallic

Colors shown are representative only, and may vary slightly from actual gloss, color, and texture. If color match is critical, please contact Technical Sales for additional information.

Additional Color Options - CRL has over 250 quick turn custom color options with the ability to color match as well.

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TOLL Phone: (800) 421-6144
FREE Fax: (800) 262-3299
From Anywhere in the U.S. or Canada

CRL US ALUMINUM

CRL Fascia Mount Post Kits for 200, 300, 350, and 400 Series Rails

- 6005 Alloy Pre-Treated Aluminum/T5 Temper 2-3/8" (60 mm) Square Posts
- Use for Center and End Posts
- Designed to Mount to Almost Any Substrate
- Three Standard Post Heights
- Seven Attractive Standard Colors, Plus Mill Aluminum
- Custom Powder Coat Colors Also Available

CRL 200, 300, 350, and 400 Series Fascia Mount Post Kits come complete with a Post that has an additional 10" (254 mm) in length, Fascia Bracket (FB1), Base Plate Screws (BPS112), Stainless Steel Washers (WSHR1), and Bolt Cover Buttons (BTN1). Fascia Mount Post Kits are available in your choice of three heights and seven attractive colors, plus mill aluminum. Custom heights and colors are also available.

Standard Kits Include:

STANDARD COLORS

Sky White Gloss	Oyster White Gloss	Agate Gray Gloss	Beige Gray Gloss	Black Matte	Bronze Matte	Silver Metallic

Colors shown are representative only, and may vary slightly from actual gloss, color, and texture. If color match is critical, please contact Technical Sales for additional information.

Additional Color Options - CRL has over 250 quick turn custom color options with the ability to color match as well.
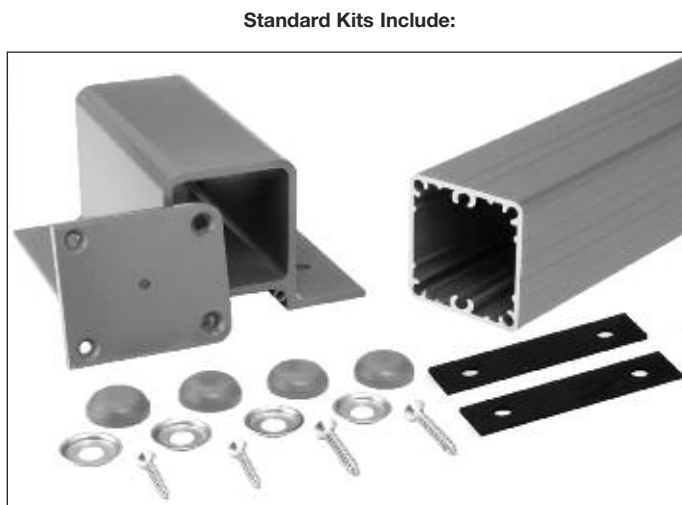
CAT. NO.*	DESCRIPTION	POST HEIGHT
FP36K	36" Fascia Post Kit	46" (1168 mm)
FP42K	42" Fascia Post Kit	52" (1320 mm)
FP48K	48" Fascia Post Kit	58" (1473 mm)

Minimum order 1 each. * Specify powder coat color or mill aluminum when ordering.

CRL Fascia Mount Brackets

- Seven Standard Colors, Plus Mill Aluminum Available to Match All CRL Aluminum Railings Using Our 2-3/8" (60 mm) Square Aluminum Posts

Use the CRL Fascia Mount Bracket to attach Vertical Posts to the face of any deck. Includes Fascia Bracket, Bottom Fascia Plate, Base Plate Screws (BPS112), Stainless Steel Washers (WSHR1), and Bolt Cover Buttons (BTN1). See page 437B for Lag Bolts or Anchors for mounting to the substrate.

CAT. NO.	COLOR
FB1W	Sky White
FB10W	Oyster White
FB1AGY	Agate Gray
FB1BGY	Beige Gray
FB1BL	Matte Black
FB1BRZ	Matte Bronze
FB1S	Silver Metallic
FB1CRM	Mill Aluminum

Minimum order: 1 each.

6"
(152 mm)

3/4"
(19 mm)

2-3/4"
(70 mm)

NOTE: Not for use with our 4" x 4" Vertical Posts.

4-3/8"
(111 mm)

6"
(152 mm)

4"
(102 mm)

7/16"
(11 mm) Dia.
Mounting Holes

Bottom Plate

2-3/8"
(60 mm)
Square
Post

(2) #12 x 3/4"
Flat Head
Phillips Screws
(Included)
Cat. No.
FBPS34

For Replacement
Moisture Barrier
Gaskets Order
Cat. No. BPG4BL
Sold Two Per Set.

(2) #14 x 1-1/2"
Flat Head
Phillips Screws
(Included)
Cat. No.
BPS112

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TOLL Phone: (800) 421-6144
FREE Fax: (800) 262-3299
From Anywhere in the U.S. or Canada

CRL
US ALUMINUM

CRL Outside 90 Degree Fascia Mount Post Kits for 200, 300, 350, and 400 Series Rails

- 6005 Alloy Pre-Treated Aluminum/T5 Temper 2-3/8" (60 mm) Square Post Used for 90 Degree Outside Corner Conditions
- Designed to Mount to Almost Any Substrate
- Three Standard Post Heights
- Seven Attractive Colors, Plus Mill Aluminum
- Custom Powder Coat Colors Also Available

These Fascia Mount Post Kits are designed for outside 90 degree mounting conditions. Kits come complete with a Post that has an additional 10" (254 mm) in length, Fascia Bracket (FB2), Base Plate Screws (TEK1), Stainless Steel Washers (WSHR1), and Bolt Cover Buttons (BTN1). Custom heights and colors are also available.

Standard Kits Incude:

CAT. NO.*	DESCRIPTION	POST HEIGHT
FP936K	36" 90 Degree Fascia Post Kit	46" (1168 mm)
FP942K	42" 90 Degree Fascia Post Kit	52" (1321 mm)
FP948K	48" 90 Degree Fascia Post Kit	58" (1473 mm)

Minimum order: 1 each. *Specify powder coat color or mill aluminum when ordering.

STANDARD COLORS

Sky White Gloss	Oyster White Gloss	Agate Gray Gloss	Beige Gray Gloss	Black Matte	Bronze Matte	Silver Metallic

Colors shown are representative only, and may vary slightly from actual gloss, color, and texture. If color match is critical, please contact Technical Sales for additional information.

Additional Color Options - CRL has over 250 quick turn custom color options with the ability to color match as well.

CRL Outside 90 Degree Fascia Mount Brackets

- Specifically Designed for Outside 90 Degree Fascia Mount Installations
- Work With Almost Any Deck
- Seven Standard Colors, Plus Mill Aluminum

Use these Outside 90 Degree Fascia Mount Brackets to attach 2-3/8" (60 mm) Vertical Posts to the side of almost any deck.

2-3/8" (60 mm) Square Post

7/16" (11 mm) Dia. Mounting Holes are Staggered for Installation

6" (152 mm)

4" (102 mm)

Bottom Plate

CAT. NO.	COLOR
FB2W	Sky White
FB20W	Oyster White
FB2AGY	Agate Gray
FB2BGY	Beige Gray
FB2BL	Matte Black
FB2BRZ	Matte Bronze
FB2S	Silver Metallic
FB2CRM	Mill Aluminum

Minimum order: 1 each.

NOTE: Not for use with our 4" x 4" Vertical Posts.

2-3/4" (70 mm)

STANDARD COLORS

Sky White Gloss	Oyster White Gloss	Agate Gray Gloss	Beige Gray Gloss	Black Matte	Bronze Matte	Silver Metallic

Colors shown are representative only, and may vary slightly from actual gloss, color, and texture. If color match is critical, please contact Technical Sales for additional information.

Additional Color Options - CRL has over 250 quick turn custom color options with the ability to color match as well.

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TOLL Phone: (800) 421-6144
FREE Fax: (800) 262-3299
From Anywhere in the U.S. or Canada

CRL
US ALUMINUM

CRL Inside 90 Degree Fascia Mount Post Kits for 200, 300, 350, and 400 Series Rails

NEW!

- 6005 Alloy Pre-Treated Aluminum/T5 Temper 2-3/8" (60 mm) Square Post Used for 90 Degree Inside Corner Conditions
- Designed to Mount to Almost Any Substrate
- Three Standard Post Heights
- Seven Attractive Colors, Plus Mill Aluminum

CRL 200, 300, 350, and 400 Series Inside 90 Degree Fascia Mount Post Kits come complete with a Post that has an additional 11" (279 mm) in length, Fascia Bracket (FB2), Bottom Fascia Plate Base Plate Screws (BPS112), Stainless Steel Washers (WSHR1), and Bolt Cover Buttons (BTN1). See page 437B for Lag Bolts or Anchors for mounting to the substrate. Fascia Post Kits are available in your choice of three heights and seven attractive colors, plus mill aluminum. Custom heights and colors are also available.

Standard Kits Include:

STANDARD COLORS

| Sky White Gloss | Oyster White Gloss | Agate Gray Gloss | Beige Gray Gloss | Black Matte | Bronze Matte | Silver Metallic |

Colors shown are representative only, and may vary slightly from actual gloss, color, and texture. If color match is critical, please contact Technical Sales for additional information.

Additional Color Options - CRL has over 250 quick turn custom color options with the ability to color match as well.

CAT. NO.*	DESCRIPTION	POST HEIGHT
FP9136K	36" (914 mm) Fascia Post Kit	46" (1168 mm)
FP9142K	42" (1067 mm) Fascia Post Kit	52" (1320 mm)
FP9148K	48" (1219 mm) Fascia Post Kit	58" (1473 mm)

Minimum order: 1 each. * Specify powder coat color when ordering.

CRL Inside 90 Degree Fascia Mount Brackets

NEW!

- Specifically Designed for Inside 90 Degree Fascia Mount Installations
- Work With Almost Any Deck
- Seven Standard Colors, Plus Mill Aluminum

Use these CRL Inside 90 Degree Fascia Mount Brackets to attach 2-3/8" (60 mm) Vertical Posts to the side of almost any deck.

4" (102 mm)

6" (152 mm)

7/16" (11 mm) Dia. Mounting Holes

NOTE: Not for use with our 4" x 4" Vertical Posts.

CAT. NO.	COLOR
FB21W	Sky White
FB210W	Oyster White
FB21AGY	Agate Gray
FB21BGY	Beige Gray
FB21BL	Matte Black
FB21BRZ	Matte Bronze
FB21S	Silver Metallic
FB21CRM	Mill Aluminum

Minimum order: 1 each.

STANDARD COLORS

| Sky White Gloss | Oyster White Gloss | Agate Gray Gloss | Beige Gray Gloss | Black Matte | Bronze Matte | Silver Metallic |

Colors shown are representative only, and may vary slightly from actual gloss, color, and texture. If color match is critical, please contact Technical Sales for additional information.

Additional Color Options - CRL has over 250 quick turn custom color options with the ability to color match as well.

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TOLL Phone: (800) 421-6144
FREE Fax: (800) 262-3299
From Anywhere in the U.S. or Canada

CRL US ALUMINUM

CRL Outside 135 Degree Fascia Mount Post Kits for 200, 300, 350, and 400 Series Rails

NEW!

- 6005 Alloy Pre-Treated Aluminum/T5 Temper 135 Degree Post Used for Outside Corner Conditions
- Designed to Mount to Almost Any Substrate
- Three Standard Post Heights
- Seven Attractive Colors, Plus Mill Aluminum
- Custom Powder Coat Colors Also Available

CRL 200, 300, 350, and 400 Series Outside 135 Degree Fascia Mount Post Kits come complete with a Post that has an additional 10" (254 mm) in length, Fascia Bracket (FB4), Stainless Steel Washers (WSHR1), and Bolt Cover Buttons (BTN1). See page 437B for Lag Bolts or Anchors for mounting to the substrate. Fascia Post Kits are available in your choice of three heights and seven attractive colors, plus mill aluminum. Custom heights and colors are also available.

Standard Kits Include:

CAT. NO.*	DESCRIPTION	POST HEIGHT
FP536K	36" (914 mm) Fascia Post Kit	46" (1168 mm)
FP542K	42" (1067 mm) Fascia Post Kit	52" (1320 mm)
FP548K	48" (1219 mm) Fascia Post Kit	58" (1473 mm)

Minimum order: 1 each. * Specify powder coat color when ordering.

STANDARD COLORS

Sky White Gloss	Oyster White Gloss	Agate Gray Gloss	Beige Gray Gloss	Black Matte	Bronze Matte	Silver Metallic

Colors shown are representative only, and may vary slightly from actual gloss, color, and texture. If color match is critical, please contact Technical Sales for additional information.

Additional Color Options - CRL has over 250 quick turn custom color options with the ability to color match as well.

CRL Outside 135 Degree Fascia Mount Brackets

NEW!

- Specifically Designed for Outside 135 Degree Fascia Mount Installations
- Work With Almost Any Deck
- Seven Standard Colors, Plus Mill Aluminum

Use these CRL Outside 135 Degree Fascia Mount Brackets to attach 135 Degree Vertical Posts to the side of almost any deck.

6"
(152 mm)

Factory Welded Base Plate

135°

For Replacement Moisture Barrier Gaskets Order Cat. No. BPG4BL Sold Two Per Set.

4"
(102 mm)

7/16" (11 mm) Dia. Mounting Holes

CAT. NO.	COLOR
FB4W	Sky White
FB40W	Oyster White
FB4AGY	Agate Gray
FB4BGY	Beige Gray
FB4BL	Matte Black
FB4BRZ	Matte Bronze
FB4S	Silver Metallic
FB4CRM	Mill Aluminum

Minimum order: 1 each.

NOTE: Not for use with our 4" x 4" Vertical Posts.

STANDARD COLORS

Sky White Gloss	Oyster White Gloss	Agate Gray Gloss	Beige Gray Gloss	Black Matte	Bronze Matte	Silver Metallic

Colors shown are representative only, and may vary slightly from actual gloss, color, and texture. If color match is critical, please contact Technical Sales for additional information.

Additional Color Options - CRL has over 250 quick turn custom color options with the ability to color match as well.

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TOLL Phone: (800) 421-6144
FREE Fax: (800) 262-3299
From Anywhere in the U.S. or Canada

CRL US ALUMINUM

CRL Inside 135 Degree Fascia Mount Post Kits for 200, 300, 350, and 400 Series Rails

NEW!

- 6005 Alloy Pre-Treated Aluminum/T5 Temper 135 Degree Post Used for Inside Corner Conditions
- Designed to Mount to Almost Any Substrate
- Three Standard Post Heights
- Seven Attractive Colors, Plus Mill Aluminum
- Custom Powder Coat Colors Also Available

CRL 200, 300, 350, and 400 Series Inside 135 Degree Fascia Mount Post Kits come complete with a Post that has an additional 10" (254 mm) in length, Fascia Bracket (FB5), Stainless Steel Washers (WSHR1), and Bolt Cover Buttons (BTN1). See page 437B for Lag Bolts or Anchors for mounting to the substrate. Fascia Post Kits are available in your choice of three heights and seven attractive colors, plus mill aluminum. Custom heights and colors are also available.

Standard Kits Include:

CAT. NO.*	DESCRIPTION	POST HEIGHT
FP5136K	36" (914 mm) Fascia Post Kit	46" (1168 mm)
FP5142K	42" (1067 mm) Fascia Post Kit	52" (1320 mm)
FP5148K	48" (1219 mm) Fascia Post Kit	58" (1473 mm)

Minimum order: 1 each. * Specify powder coat color when ordering.

STANDARD COLORS

Sky White Gloss	Oyster White Gloss	Agate Gray Gloss	Beige Gray Gloss	Black Matte	Bronze Matte	Silver Metallic

Colors shown are representative only, and may vary slightly from actual gloss, color, and texture. If color match is critical, please contact Technical Sales for additional information.

Additional Color Options - CRL has over 250 quick turn custom color options with the ability to color match as well.

CRL Inside 135 Degree Fascia Mount Brackets

NEW!

- Specifically Designed for Inside 135 Degree Fascia Mount Installations
- Work With Almost Any Deck
- Seven Standard Colors, Plus Mill Aluminum

Use these CRL Inside 135 Degree Fascia Mount Brackets to attach 135 Degree Vertical Posts to the side of almost any deck.

4" (102 mm)

6" (152 mm)

7/16" (11 mm) Dia. Mounting Holes

Factory Welded Base Plate

135°

For Replacement Moisture Barrier Gaskets Order Cat. No. BPG4BL Sold Two Per Set.

NOTE: Not for use with our 4" x 4" Vertical Posts.

CAT. NO.	COLOR
FB5W	Sky White
FB50W	Oyster White
FB5AGY	Agate Gray
FB5BGY	Beige Gray
FB5BL	Matte Black
FB5BRZ	Matte Bronze
FB5S	Silver Metallic
FB5CRM	Mill Aluminum

Minimum order: 1 each.

STANDARD COLORS

Sky White Gloss	Oyster White Gloss	Agate Gray Gloss	Beige Gray Gloss	Black Matte	Bronze Matte	Silver Metallic

Colors shown are representative only, and may vary slightly from actual gloss, color, and texture. If color match is critical, please contact Technical Sales for additional information.

Additional Color Options - CRL has over 250 quick turn custom color options with the ability to color match as well.

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TOLL Phone: (800) 421-6144
FREE Fax: (800) 262-3299
From Anywhere in the U.S. or Canada

CRL
US ALUMINUM

CRL Base Plate Screw

- For Use With All Square Base Plates
- AISI 4037 Alloy Steel With Magni® 550 Corrosion Protection
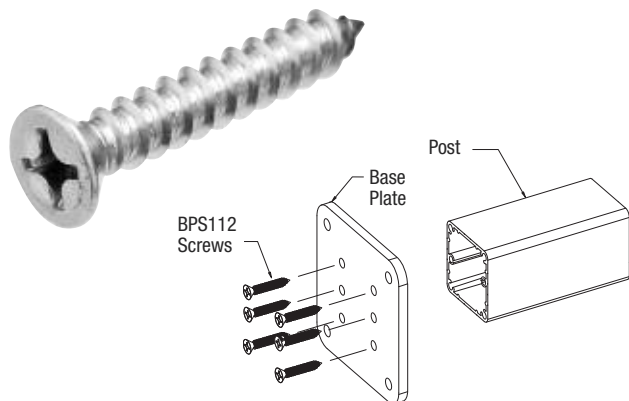
Post

Base Plate

BPS112 Screws

The CRL Base Plate Screw is designed to secure Base Plates into the screw race of Vertical Posts. Phillips Head Screw fits flush beneath the Base Plate. AISI 4037 alloy steel with Magni® 550 to protect against corrosion

CAT. NO.	DESCRIPTION	SIZE
BPS112	Base Plate Screw	#14 x 1-1/2" (38 mm)

Minimum order: 50 each. Must be ordered in increments of 50.

CRL Lag Bolts

- Ideal for Attaching Vertical Posts to a Wooden Substrate
- 304 Grade Stainless Steel

CAT. NO. LB600
3/8" x 6" (152 mm) Long

CAT. NO. LB350
3/8" x 3-1/2" (89 mm) Long
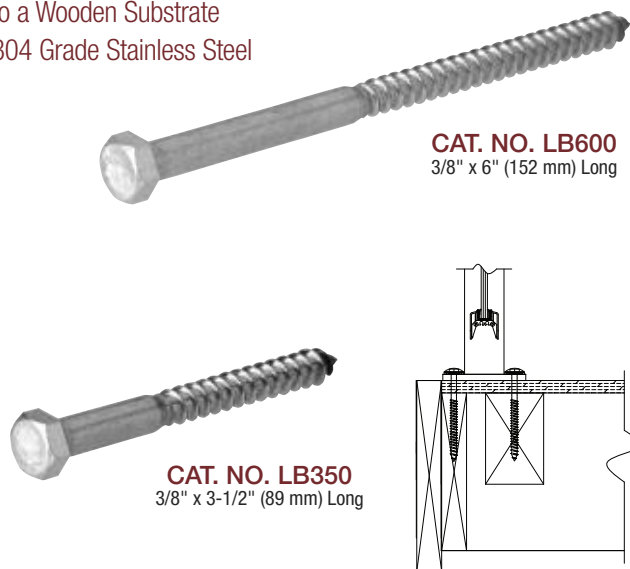
Stainless Steel Lag Bolts are perfect for attaching Vertical Post Kits to a wooden substrate. Use them with Cat. No. WSHR1 Stainless Steel Washers and Cat. No. BTN1 Color Match Bolt Cover Buttons to create a beautiful finished look (see page 439B). Minimum order is 20 each. Must be ordered in increments of 20.

CRL Fascia Base Plate Replacement Screw

- For Use With Fascia Mount Brackets
- 304 Grade Stainless Steel

(2) #12 x 3/4" Flat Head Phillips Screws

Flat

Phillips

Machine

(2) #14 x 1-1/2" Flat Head Phillips Screws Cat. No. BPS112 (see above)
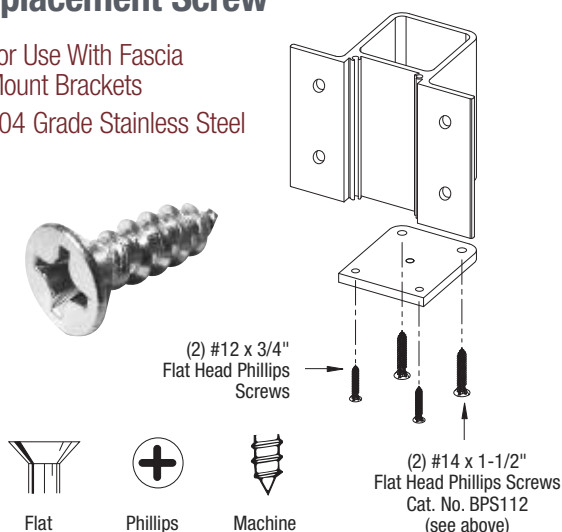
The CRL Fascia Base Plate Screw is designed to Secure Fascia Base Plates into the screw race of vertical posts. Flat Head Phillips Screw fits flush beneath the Base Plate.

CAT. NO.	SIZE
FBPS34	#12 x 3/4" (19 mm)

Minimum order: 50 each. Must be ordered in increments of 50.

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Hilti is a registered trademark of Hilti Aktiengesellschaft Corporation.

Hilti® KWIK Bolt TZ Concrete Anchors

- Carbon Steel and 304 Grade Stainless Steel Available

Hilti® KWIK Bolt TZ is a 2006, 2009, and 2012 IBC Compliant, torque controlled, heavy-duty expansion bolt designed for high performance in static and dynamic load applications. **NOTE:** Carbon Steel Anchor is recommended for interior installations only.

CAT. NO.	DESCRIPTION	APPLICATION	SIZE
CA38X334SS	304 Stainless Steel Anchor	Exterior/Interior	3/8" x 3-3/4" (95 mm)
CA38X334	Carbon Steel Anchor	Interior Only	3/8" x 3-3/4" (95 mm)

Minimum order: 50 each. Must be ordered in increments of 50.

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TOLL Phone: (800) 421-6144
FREE Fax: (800) 262-3299
From Anywhere in the U.S. or Canada

CRL
US ALUMINUM

CRL Standard 5" Square Base Plates

- Seven Standard Colors, Plus Mill Aluminum Available for Standard and 45 Degree Post

CRL Standard Square Base Plates screw into Vertical Post raceways. They are countersunk to accept four Cat. No. BPS112 Base Plate Screws, then attached to the substrate with our Concrete Anchors or Lag Bolts (see page 437B). Use Stainless Steel Washers (WSHR1) and Color Match Bolt Cover Buttons (BTN1) to add a finished look. The BP05 Offset Base Plate design allows vertical posts to attach to one side of the Base Plate. One each Cat. No. BPG1BL Moisture Barrier Gasket is included with each Base Plate (see below).

Square Base Plate

- For Center Mounted 2-3/8" (60 mm) Square Aluminum Posts
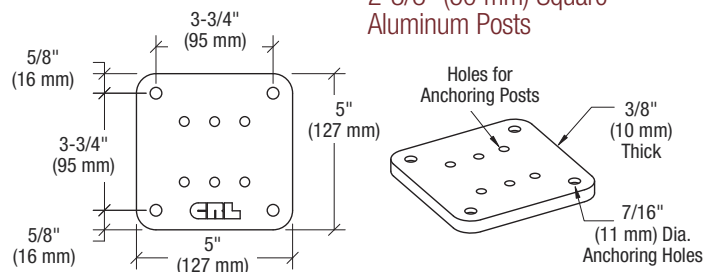
3-3/4" (95 mm), 5/8" (16 mm), 3-3/4" (95 mm), 5/8" (16 mm), 5" (127 mm), Holes for Anchoring Posts, 3/8" (10 mm) Thick, 7/16" (11 mm) Dia. Anchoring Holes

CAT. NO.	COLOR
BP5W	Sky White
BP50W	Oyster White
BP5AGY	Agate Gray
BP5BGY	Beige Gray
BP5BL	Matte Black
BP5BRZ	Matte Bronze
BP5S	Silver Metallic
BP5CRM	Mill Aluminum

Minimum order: 1 each.

Offset Base Plate

- For Offset Mounted 2-3/8" (60 mm) Square Aluminum Posts
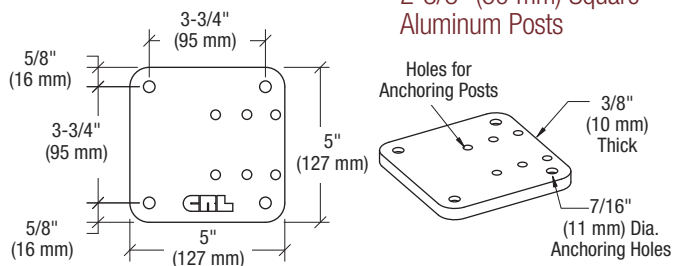
3-3/4" (95 mm), 5/8" (16 mm), 3-3/4" (95 mm), 5/8" (16 mm), 5" (127 mm), Holes for Anchoring Posts, 3/8" (10 mm) Thick, 7/16" (11 mm) Dia. Anchoring Holes

CAT. NO.	COLOR
BP05W	Sky White
BP050W	Oyster White
BP05AGY	Agate Gray
BP05BGY	Beige Gray
BP05BL	Matte Black
BP05BRZ	Matte Bronze
BP05S	Silver Metallic
BP05CRM	Mill Aluminum

Minimum order: 1 each.

CRL 6-1/2" Square Base Plates

- For Use With Our 4" x 4" (102 x 102 mm) Square Vertical Posts
- Seven Standard Colors, Plus Mill Aluminum

This Square Base Plate screws into our 4" x 4" (102 x 102 mm) Vertical Post raceways, and is countersunk to accept four Cat. No. BPS112 Base Plate Screws. Attach to substrate with Concrete Anchors or Lag Bolts (see page 437B). Use Stainless Steel Washers (WSHR1) and Color Match Bolt Cover Buttons (BTN1) to add a finished look. One each Cat. No. BPG3BL Moisture Barrier Gasket is included with each Base Plate.

3/4" (19 mm), 5" (127 mm), 3/4" (19 mm), 6-1/2" (165 mm), Holes for Anchoring Posts, 6-1/2" (165 mm), 3/8" (10 mm) Thick, 7/16" (11 mm) Dia. Anchoring Holes
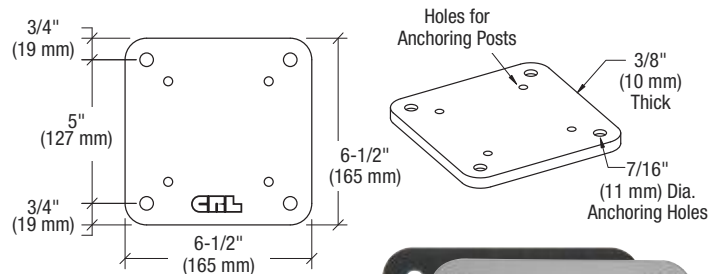
CAT. NO.	COLOR
BP6W	Sky White
BP60W	Oyster White
BP6AGY	Agate Gray
BP6BGY	Beige Gray
BP6BL	Matte Black
BP6BRZ	Matte Bronze
BP6S	Silver Metallic
BP6CRM	Mill Aluminum

Minimum order: 1 each.

CRL Moisture Barrier Gaskets

- For Aluminum Railings and Windscreens
- Protects Metal Base Plates From Moisture in Concrete
- Four Sizes Available
- 1/8" (3 mm) Thick

CRL Moisture Barrier Gaskets protect metal Base Plates on Posts and Stanchions from moisture absorption through concrete, brick, masonry, or stucco substrates. Over time moisture will cause metal to corrode, and with these Barrier Gaskets between the substrate and Base Plate the metal is protected. ***NOTE:** For Fascia Mount Moisture Barrier Gaskets order Cat. No. BPG4BL, sold by the set of two.

CAT. NO.	SIZE
BPG1BL	5" x 5" (127 mm x 127 mm)
BPG2BL	6" x 6" (152 mm x 152 mm)
BPG3BL	6-1/2" x 6-1/2" (165 mm x 165 mm)
BPG4BL	1-3/4" x 6" (44 mm x 152 mm)*

Minimum order: 1 each. All Sizes can be combined for quantity pricing.

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or enter the Catalog Number for complete product information

CRL Color Match Bolt Cover Buttons

- Snap-On Fit
- Seven Standard Colors to Match Our Posts

CRL Color Match Bolt Cover Buttons are designed to cover up exposed Concrete Anchors and Lag Bolts on Vertical Post Base Plates. Plastic Buttons snap over Cat. No. WSHR1 Stainless Steel Washers to create a finished look.

CAT. NO.	COLOR
BTN1W	Sky White
BTN10W	Oyster White
BTN1AGY	Agate Gray
BTN1BGY	Beige Gray
BTN1BL	Matte Black
BTN1BRZ	Matte Bronze
BTN1DS	Dark Silver

Minimum order: 50 each. Must be ordered in increments of 50.

Button Diameter: 1-3/16" (30 mm)
Button Height: 3/8" (10 mm)

Button Snaps on Washer to Conceal Anchor

CRL Stainless Steel Button Washer

- Sleek Design Allows Bolt Cover Buttons to Snap Over the Stainless Steel Washer

1" (25 mm) diameter Stainless Steel Washer with a 7/16" (11 mm) hole. Designed to accept CRL Color Match Bolt Cover Buttons.

Install Anchor and Washer Through Base Plate

Snap Bolt Cover Button on Washer

- 304 Grade Stainless Steel

CAT. NO.	DIAMETER	HOLE	THICKNESS
WSHR1	1" (25 mm)	7/16" (11 mm)	1/8" (3 mm)

Minimum order: 50 each. Must be ordered in increments of 50.

CRL Aluminum Railing Stanchions

- Designed for All Series of CRL Aluminum Railings Using Our 2-3/8" (60 mm) Square Aluminum Posts
- Stainless Steel

Use these 1-1/2" x 2" (38 x 51 mm) Stainless Steel Stanchions to core or surface mount your Aluminum Railing System. Wet set Core Stanchions in 8,000 psi or greater cement (see page 450B for Expanding Cement). Surface Mount Stanchions are welded to a steel base plate and then powder coated to match our ARS Posts and Bottom Rails. One each Moisture Barrier Gasket Cat. No. BPG1BL is included with each Surface Mount Stanchion.

1-1/2" (38 mm)
2" (51 mm)

2-3/8" (60 mm) Square Post

Core Mount Steel Stanchion 4" (102 mm) Embedment in Concrete

10" (254 mm)

2-3/8" (60 mm) Square Post

Surface Mount Stanchion

Grout Lock Hole

CAT. NO. PST5

7/16" (11 mm) Dia. Mounting Holes

5" x 5" (127 x 127 mm) Base Plate 3/8" (10 mm) Thick

Welded Connection

Moisture Barrier Gasket

CAT. NO. PST5BP

CAT. NO.	DESCRIPTION	STANCHION HEIGHT
PST5	Core Mount	10" (254 mm)
PST5BP	Surface Mount*	10" (254 mm)

Minimum order: 1 each. * Specify powder coat color when ordering.

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CRL US ALUMINUM

CRL Picket Panels for 200, 300, 350, and 400 Series Rails

- 3/4" (19 mm) Square Pickets in Seven Standard Colors, Plus Mill Aluminum
- Nine Standard Picket Panel Sizes
- Custom Picket Panels Also Available

CRL Picket Panels are available in a variety of lengths and widths. Seven stock colors, plus mill aluminum to choose from. Use CRL Picket Panels to save time and cost. All Panels come with Top Infill, Bottom Rail, and Pickets spaced 3-7/8" (98 mm) apart.

STANDARD COLORS

Sky White Gloss	Oyster White Gloss	Agate Gray Gloss	Beige Gray Gloss	Black Matte	Bronze Matte	Silver Metallic

Colors shown are representative only, and may vary slightly from actual gloss, color, and texture. If color match is critical, please contact Technical Sales for additional information.

CAT. NO.*	FITS OPENING (W X H)	ACTUAL SIZE (W X H)	PICKETS
P4836	48" x 36" (1219 x 914 mm)	53-5/8" x 33-1/8" (1362 x 841 mm)	10
P6036	60" x 36" (1524 x 914 mm)	65-5/8" x 33-1/8" (1667 x 841 mm)	13
P7236	72" x 36" (1828 x 914 mm)	77-5/8" x 33-1/8" (1972 x 841 mm)	15
P4842	48" x 42" (1219 x 1066 mm)	53-5/8" x 39-1/8" (1362 x 994 mm)	10
P6042	60" x 42" (1524 x 1066 mm)	65-5/8" x 39-1/8" (1667 x 994 mm)	13
P7242	72" x 42" (1828 x 1066 mm)	77-5/8" x 39-1/8" (1972 x 994 mm)	15
P4848	48" x 48" (1219 x 1219 mm)	53-5/8" x 45-1/8" (1362 x 1146 mm)	10
P6048	60" x 48" (1524 x 1219 mm)	65-5/8" x 45-1/8" (1667 x 1146 mm)	13
P7248	72" x 48" (1828 x 1219 mm)	77-5/8" x 45-1/8" (1972 x 1146 mm)	15

Minimum order: 1 each. * Specify powder coat color or mill aluminum when ordering. Must ship common carrier.

Width — Snap-In Top Infill
3/4" (19 mm) Square Pickets
Height
Aluminum Bottom Rail
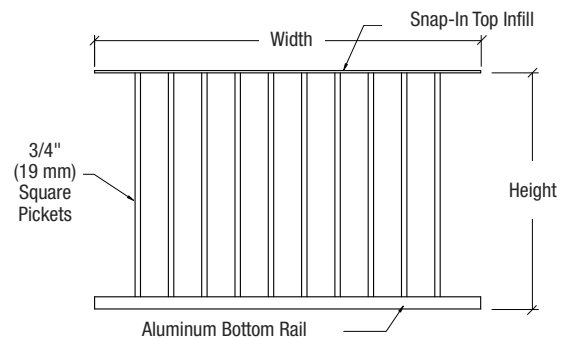
CRL Pickets for 200, 300, 350, and 400 Series Rails

- 20'-1" (6.12 m) Extrusions You Cut to Required Lengths
- Seven Standard Colors, Plus Mill Aluminum
- Easy to Install Design

Square Pickets

3/4" (19 mm) Square Aluminum Picket
3/4" (19 mm)
3/4" (19 mm)
Screw Race
.062" (1.6 mm) Wall Thickness
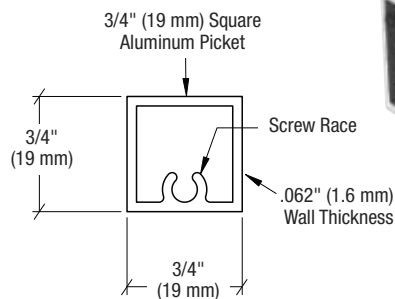
CAT. NO. PKTS2
Picket Screw
Minimum Order is 50 Each

CAT. NO.	COLOR
PKTS241W	Sky White
PKTS2410W	Oyster White
PKTS241AGY	Agate Gray
PKTS241BGY	Beige Gray
PKTS241BL	Matte Black
PKTS241BRZ	Matte Bronze
PKTS241S	Silver Metallic
PKTS241CRM	Mill Aluminum

Minimum order: 1 each. See above for color chart. Must ship common carrier.

Use CRL 200, 300, 350, and 400 Series Square Picket Extrusions with Top Infills and Bottom Rails. The 3/4" (19 mm) Picket Extrusion attaches to Top Infills and Bottom Rails with a Cat. No. PKTS2 Stainless Steel Phillips Pan Head Picket Screw.

Round Pickets

3/4" (19 mm) Diameter Aluminum Picket
3/4" (19 mm)
Screw Race
.062" (1.6 mm) Wall Thickness
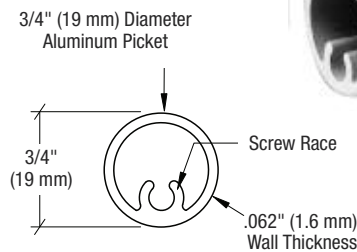
CAT. NO. PKTS2
Picket Screw
Minimum Order is 50 Each

CAT. NO.	COLOR
PKTR241W	Sky White
PKTR2410W	Oyster White
PKTR241AGY	Agate Gray
PKTR241BGY	Beige Gray
PKTR241BL	Matte Black
PKTR241BRZ	Matte Bronze
PKTR241S	Silver Metallic
PKTR241CRM	Mill Aluminum

Minimum order: 1 each. See above for color chart. Must ship common carrier.

Use CRL 200, 300, 350, and 400 Series Round Picket Extrusions with Top Infills and Bottom Rails. The 3/4" (19 mm) Picket Extrusion attaches to Top Infills and Bottom Rails with a Cat. No. PKTS2 Stainless Steel Phillips Pan Head Picket Screw.

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TOLL Phone: (800) 421-6144
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CRL US ALUMINUM

CRL Standard Cast Infills

- Made From Solid Cast Aluminum
- Seven Standard Colors, Plus Mill Aluminum
- Combine With Pickets to Create a Unique Appearance for Your Railing System
- Designed for Railings Up to 42" (1.07 m) Tall

CRL Aluminum Cast Infill Panels easily install into all ARS Series Aluminum Railing Systems and provide an attractive, maintenance-free design that will enhance any residential or commercial application.

Diamond Pattern

- Create a Unique Architectural Accent

Chevron Pattern

15-3/8"
(391 mm)

14-5/8"
(372 mm)
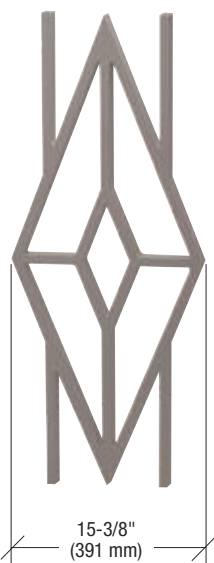
DIAMOND PATTERN CAST INFILLS

CAT. NO.	COLOR
C1DP42W	Sky White
C1DP420W	Oyster White
C1DP42AGY	Agate Gray
C1DP42BGY	Beige Gray
C1DP42BL	Matte Black
C1DP42BRZ	Matte Bronze
C1DP42S	Silver Metallic
C1DP42CRM	Mill Aluminum

Minimum order: 1 each. See page 427B for color chart.
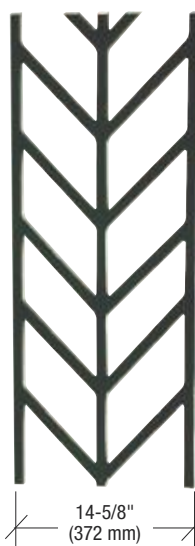
CHEVRON PATTERN CAST INFILLS

CAT. NO.	COLOR
C1CP42W	Sky White
C1CP420W	Oyster White
C1CP42AGY	Agate Gray
C1CP42BGY	Beige Gray
C1CP42BL	Matte Black
C1CP42BRZ	Matte Bronze
C1CP42S	Silver Metallic
C1CP42CRM	Mill Aluminum

Minimum order: 1 each. See page 427B for color chart.

CRL Custom Water Jet and Laser Cut Infill Panels

- Custom Fabricated to Your Specifications
- Available in 1/4" and 3/8" (6 and 10 mm) Aluminum Thickness
- Seven Standard Colors, Plus Mill Aluminum
- Custom Colors Also Available
- Welded and Fabricated as a Railing Infill Panel or Can Be Connected With Z-Series Clamps (See Pages 306B-310B)
- Designs are Limitless

CRL Water Jet and Laser Cut Infill Panels are designed to be welded or connected with Z-Series Clamps into CRL's Aluminum Railing Systems as a decorative infill option. Each Water Jet or Laser Cut Panel is fabricated to your exact specifications and innovative designs at our Los Angeles manufacturing facility. CRL's Technical Sales Representatives are eager to assist you and create a functional custom made Infill Panel that will meet the needs of even the most discriminating customer, while assuring long-term structural integrity.

CAT. NO.	DESCRIPTION
ARSLSR1	Custom Water Jet/Laser Cut Aluminum Infill Panel

Minimum order: 1 each.

TOLL Phone: (800) 421-6144
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From Anywhere in the U.S. or Canada

CRL US ALUMINUM

CRL Surface Mount Cable End Post Kits for 200, 300, 350, and 400 Series Rails

- End Post Kits Prepped for 1/8" (3 mm) Cable Tensioning Receiver Ends or Push-Lock Ends
- 2-3/8" (60 mm) Square in Two Standard Post Heights
- Complete With Base Plate, Moisture Barrier Gasket, Stainless Washers, Screws and Bolt Cover Buttons (Post Cap Not Included)
- Seven Standard Colors, Plus Mill Aluminum
- Custom Sizes and Hole Locations Also Available

CRL Surface Mount Cable End Post Kits come complete with Base Plate (BP5), Moisture Barrier Gasket (BPG1BL), Stainless Steel Washers (WSHR1), and Color Match Bolt Cover Buttons (BTN1). Standard Post Kits are available in your choice of two heights and seven attractive colors, plus mill aluminum. Custom heights and colors are also available.

Standard Kits Include:

NOTE: Cable Grommets sold separately (see page 445B)

STANDARD COLORS

| Sky White Gloss | Oyster White Gloss | Agate Gray Gloss | Beige Gray Gloss | Black Matte | Bronze Matte | Silver Metallic |

Colors shown are representative only, and may vary slightly from actual gloss, color, and texture. If color match is critical, please contact Technical Sales for additional information.

CAT. NO.*	DESCRIPTION	CABLE HOLES
P36TK	36" (914 mm) Tall Cable Receiver Post Kit Prepped for Tensioning Receiver End	11
P36PK	36" (914 mm) Tall Cable Receiver Post Kit Prepped for Pull Lock End	11
P42TK	42" (1066 mm) Tall Cable Receiver Post Kit Prepped for Tensioning Receiver End	13
P42PK	42" (1066 mm) Tall Cable Receiver Post Kit Prepped for Pull Lock End	13

Minimum order: 1 each. * Specify powder coat color or mill aluminum when ordering. Posts can be trimmed in the field to compensate for uneven surfaces.

3" (76 mm) Center-to-Center Cable Spacing for Tensioning Receivers and Pull-Lock Ends

CRL Surface Mount Cable Center Post Kits for 200, 300, 350, and 400 Series Rails

- Center Post Kits Prepped for 1/8" (3 mm) Cable
- 2-3/8" (60 mm) Square in Two Standard Post Heights
- Complete With Base Plate, Moisture Barrier Gasket, Stainless Washers, Screws, and Bolt Cover Buttons (Post Cap Not Included)
- Seven Standard Colors, Plus Mill Aluminum
- Custom Sizes and Hole Locations Also Available

CRL Surface Mount Cable Center Post Kits come complete with Base Plate (BP5), Moisture Barrier Gasket (BPG1BL), Stainless Steel Washers (WSHR1), and Color Match Bolt Cover Buttons (BTN1). Standard Post Kits are available in your choice of two heights and seven attractive colors, plus mill aluminum. Custom heights and colors are also available.

Standard Kits Include:

NOTE: Cable Grommets sold separately (see page 445B)

STANDARD COLORS

| Sky White Gloss | Oyster White Gloss | Agate Gray Gloss | Beige Gray Gloss | Black Matte | Bronze Matte | Silver Metallic |

Colors shown are representative only, and may vary slightly from actual gloss, color, and texture. If color match is critical, please contact Technical Sales for additional information.

CAT. NO.*	DESCRIPTION	CABLE HOLES
P36CK	36" (914 mm) Tall Cable Center Post Kit	11
P42CK	42" (1066 mm) Tall Cable Center Post Kit	13

Minimum order: 1 each. * Specify powder coat color or mill aluminum when ordering. Posts can be trimmed in the field to compensate for uneven surfaces.

3" (76 mm) Center-to-Center Cable Spacing with 3/16" (5 mm) Diameter Holes for 1/8" (3 mm) Cable

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TOLL Phone: (800) 421-6144
FREE Fax: (800) 262-3299
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CRL US ALUMINUM

CRL ARS 1/8" Stainless Steel Cable Infill

- For Use With All CRL Aluminum Railing Systems
- 1/8" (3 mm) Diameter 1 x 19 Type 316 Stainless Steel Cable
- Uncoated and Low Maintenance

CRL Stainless Steel Cable is an infill option for any of our railing systems. Recommended spacing between cables is 3" (76 mm) center-to-center. The 1 x 19 construction Cable is engineered to hold static loads without stretching, and is relatively stiff. Order Cable in rolls, pre-cut kits with hardware, or we can custom cut it to your required length (see below). **NOTE:** Cat. No. CBLS1K Cable Swagger Tool Kit is required for installing CRL Swagging Stud Fitting (Cat. No. SWGST1), CRL Tensioning Receiver (Cat. No. TENRR1), and CRL Ferrule Fitting (Cat. No. FXFRL1) to Cat. No. CBL18 Cable for proper tensioning.

CRL Stainless Steel Cable is designed with 19 separate wires twisted into a single strand.

See page 335B for Cable Installation Tools

1/8" (3 mm) Diameter
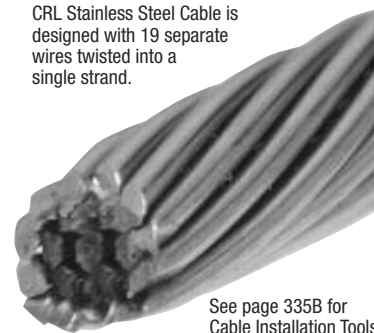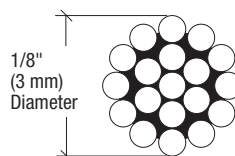
CAT. NO.	ROLL LENGTH
CBL18	250' (76.2 m)

Minimum order: 1 roll.

CRL Ultra-tec® Cable Swager Installation Tool Kit

- A Complete Kit for Working with Stainless Steel Cable
- Requires at Least 20 CFM and 120 P.S.I. Air Compressor

CRL Ultra-tec® Cable Swager Installation Tool Kit includes: One Air Over Hydraulic Pump, one set of Air Hoses and Fittings, one Cable Grip Locking Pliers, one Cable Cutter, one Hand Held Swager, one Grommet Tool Set, one set of Allen Wrenches, one pair of Safety Glasses, one Radius Ferrule/Clip On Stop Gauge, and a Tool Box. Air Over Hydraulic Pump requires an air compressor capable of delivering at least 20 CFM and 120 P.S.I. at the air inlet on the box. Minimum 1/4" (6 mm) inside diameter air hose with a 1/4" male pipe thread required (not included).

CAT. NO.	DESCRIPTION
CBLS1K	Installation Tool Kit

Minimum order: 1 each.

CRL 1/8" Pre-Cut Stainless Steel Cable Kits

- Four Pre-Cut Lengths, as Well as Custom Lengths
- Factory Installed Swaging Stud
- No Special Equipment Required for Installation

CRL Pre-Cut Stainless Steel Cable Kits are offered in four standard lengths to make the install go easy. Included with each kit; one pre-cut 1/8" (3 mm) diameter 1 x 19 Type 316 Stainless Steel Cable, one Cat. No. SWGST1 Swaging Stud factory installed on the Cable, one Cat. No. TENRR1 Tensioning Receiver, and one Cat. No. PUL4SS Pull-Lock. Recommended maximum spacing between cables is 3" (76 mm) center-to-center. The 1 x 19 Cable is engineered to hold static loads without stretching, and is relatively stiff. The maximum cable run is 50' (15.2 m). Post spacing not to exceed 42" (1.06 m) on center.

Swaging Stud Factory Installed

Pull-Lock

Tensioning Receiver

Cable

TENRR1 Receiver

Post

1/8" (3 mm) Dia. Cable

Post

PUL4SS Pull-Lock for 1/8" (3 mm) Dia. Cable

7/16" (11 mm) Dia. Hole in Post

7/16" (11 mm) Dia. Hole in Post

3/16" (5 mm) Dia. Hole in Post

7/16" (11 mm) Dia. Hole in Post

Tensioning Receiver End Post

Pull-Lock End Post

Ultra-tec is a registered trademark of The Cable Connection Corp.
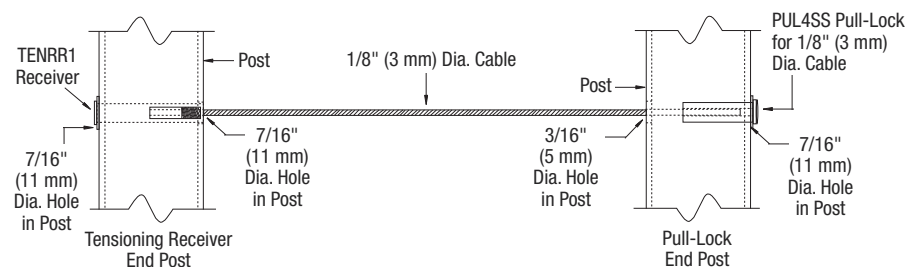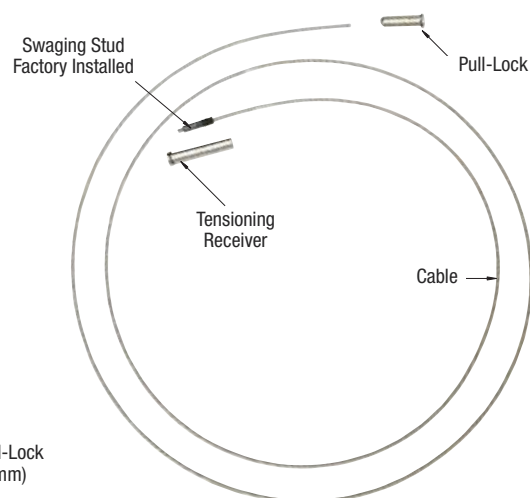
CAT. NO.	LENGTH
CBL188K	8' (2.4 m)
CBL1818K	18' (5.5 m)
CBL1836K	36' (10.9 m)
CBL1851K	51' (15.5 m)
CBL18KC	Custom Length*

Minimum order: 1 each. * Must specify custom length at time of order.

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CRL US ALUMINUM

CRL Tensioning Receiver

- Allows 1/8" (3 mm) Cable to Be Adjusted Between Spans
- Mounts to Aluminum, Wood or Stainless Steel Posts
- 316 Grade Stainless Steel

The CRL Tensioning Receiver is a tension device hidden inside the end post, with only the head of the Receiver exposed on the outside of the post. It allows the 1/8" (3 mm) Stainless Steel Cable to be adjusted between spans. The inside is female-threaded to accept the male-threaded Cat. No. SWGST1 Swaging Stud Fitting that is attached to the cable. Requires 3/16" hex wrench to fasten.
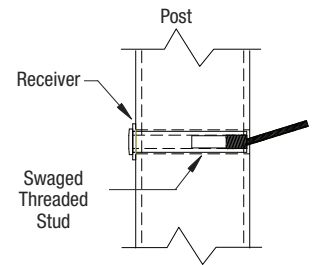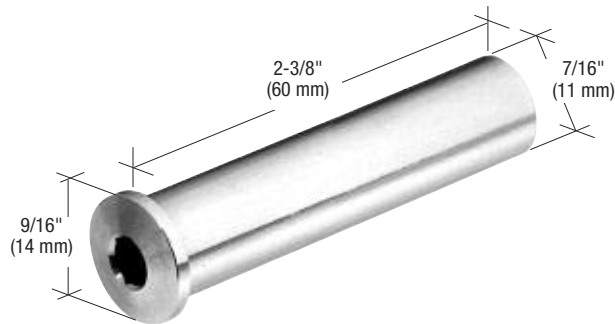
2-3/8" (60 mm) — 7/16" (11 mm) — 9/16" (14 mm)

Post
Receiver
Swaged Threaded Stud

Washer — Post
Receiver
Allen Head
Counterbored Hole on Post Only
Swaged Threaded Stud
Stainless Steel Cable

The Receiver can be used in a horizontal position on stair end posts that have a pitch up to 35 degrees. This eliminates the need to bore hardware holes at an angle on stair runs.
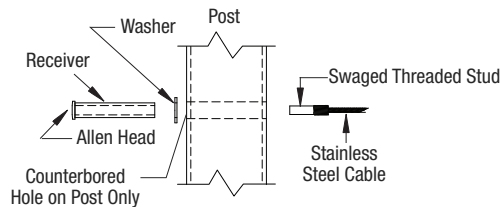
CAT. NO.	FITS CABLE DIAMETER
TENRR1	1/8" (3 mm)

Minimum order: 1 each.

CRL Swaging Stud Fitting

- Secures Our 1/8" (3 mm) 1 x 19 Type 316 Grade Stainless Steel Cable
- Designed for Aluminum, Wood or Stainless Steel Post Applications

Swaged on the end of the Stainless Steel Cable, this part is used with the Cat. No. TENRR1 Tensioning Receiver. When installed, it is completely hidden inside the Fitting so you will never see any unattractive swaging marks. The threaded surface is coated with a baked-on, molybdenum based dry film lubricant to prevent the threads from galling when tensioned and in extreme environments. Only for use with 1/8" (3 mm) diameter Cable. **NOTE:** Cat. No. CBLS1K Cable Swager Tool Kit (sold separately) is required for installation (see page 443B).

1-1/8" (29 mm)

Threads into Cat. No. TENRR1 Tensioning Receiver

CAT. NO.	FITS CABLE DIAMETER
SWGST1	1/8" (3 mm)

Minimum order: 1 each.

CRL Push-Lock Fitting

- For Use With Our 1/8" (3 mm) 1 x 19 Type 316 Grade Stainless Steel Cable

The CRL Push-Lock Fitting is designed to be used on 1/8" (3 mm) Cable. When used with an end post 1-1/2" (38 mm) or more in thickness, the Push-Lock Fitting with a rounded head is hidden inside the end post, with only the head exposed on the outside of the post. A plastic washer is included and acts as a scratch resistant barrier between the Push-Lock Fitting and post.

1-9/16" (40 mm) — 7/16" (11 mm) — 17/32" (14 mm)
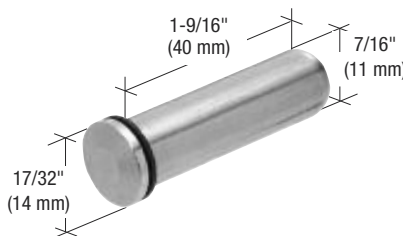
CAT. NO.	FITS CABLE DIAMETER
PL4SS	1/8" (3 mm)

Minimum order: 1 each.

CRL Ferrule Fitting

- For Use on Fixed, Non-Tensioning End of Our 1/8" (3 mm) 1 x 19 Type 316 Grade Stainless Steel Cable
- Mounts to Aluminum, Wood or Stainless Steel Posts

When installed, the Ferrule Fitting is hidden inside the end post, with only the head exposed on the outside of the post. After it's installed, it looks the same as the Tensioning Receiver. Only for use with 1/8" (3 mm) diameter Cable. **NOTE:** Cat. No. CBLS1K Cable Swager Tool Kit (sold separately) is required for installation (see page 443B).

13/16" (21 mm) — 7/16" (11 mm) — 9/16" (14 mm)

Stainless Steel Cable
Swaged Radius Ferrule
Post — Washer
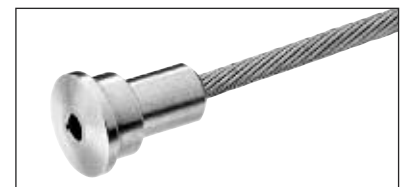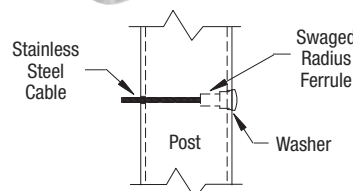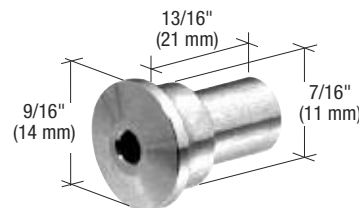
CAT. NO.	FITS CABLE DIAMETER
FXFRL1	1/8" (3 mm)

Minimum order: 1 each.

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444B

TOLL Phone: (800) 421-6144
FREE Fax: (800) 262-3299
From Anywhere in the U.S. or Canada

CRL US ALUMINUM

CRL Ultra-tec® Pull-Lock Cable Fittings

PULL

- No Special Field Swaging Equipment Required
- Pull-Lock Fittings Make Installing Cable Easy
- For Use With CRL's 200, 300, 350, and 400 Series Aluminum Rails
- Can Also Be Used With Metal and Wood Products
- 316 Grade Stainless Steel

7/16" (11 mm)

17/32" (14 mm)

1-9/16" (40 mm)

CUT

CRL Ultra-tec® now offers a cable system that can be installed by hand. No special tools or swaging equipment required. Just tension the cables and cut the excess cable off the back side of the fitting using a Right Angle Grinder or Cutting Wheel (see page 551B). Press on the Stainless Steel Cap to cover the cable's end and you are done.

CAT. NO. PLCAP
Replacement Cap for PUL4SS Pull Lock

CAP
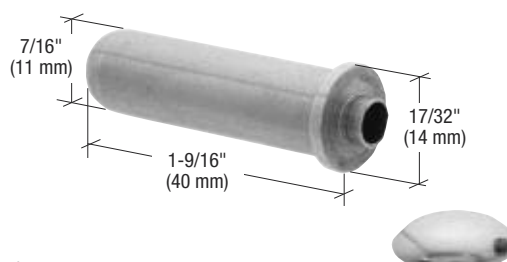
CAT. NO.	GRADE	FITS CABLE DIAMETER
PUL4SS	316	1/8" (3 mm)

Minimum order: 1 each.
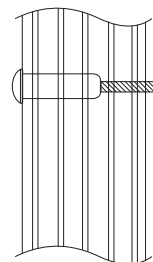
CRL Cable Release Tool

This innovative tool allows the release of cable from Push Lock and Pull Lock type fittings before cables are tensioned.

CAT. NO.	FITS CABLE DIAMETER
PLKEY	1/8" (3 mm)

Minimum order: 1 each.

CRL Grommet Installation Tool Kit

If Cable Grommets are required, CRL's Grommet Installation Tool Kit is needed for proper alignment and installation. Simply place grommet over hole, insert tool and tap lightly with a hammer.

CAT. NO.	FITS CABLE GROMMETS
CBLGTK1	CBLG4/CBLG5

Minimum order: 1 each.

CRL Cable Grommets

- Grommets Help Prevent Rust in Exterior Applications
- For Use With 1/8" (3 mm) Diameter Cable
- Designed for Square, Round, or Rectangular Posts With .120" (3 mm) Wall Thickness
- Made From Black UV Resistant Delrin

Cable Grommets provide a barrier between the cable and the powder coated post surface to help prevent rusting in exterior applications. The Grommets are installed when the cable is pulled through the drilled hole locations in the posts. For stairway or ramp conditions Cable Grommets are manufactured to support a pitch of up to 37 degrees.

Grommet   Grommet   Installation Tool

Large Lip   Large Lip

Post

Use CRL CBLGTK1 Grommet Installation Tool Kit for Installation (Sold Separately, See Above)

CAT. NO.	DESCRIPTION	FITS CABLE DIAMETER
CBLG4	Grommets for Level Rails	1/8" (3 mm)
CBLG5	Grommets for Stairway Rails	1/8" (3 mm)

Minimum order: 100 each.

Ultra-tec is a registered trademark of The Cable Connection Corp.

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445B

TOLL Phone: (800) 421-6144
FREE Fax: (800) 262-3299
From Anywhere in the U.S. or Canada

CRL US ALUMINUM

CRL 4" x 4" Square Post Aluminum Railing System

- Designed to Work With Our 100, 200, 300, and 350 Series Components
- Seven Standard Powder Coated Colors, Plus Mill Aluminum
- Custom Colors Also Available
- Accommodates 1/4" to 3/8" (6 to 10 mm) Tempered Glass Dry Glazed With Vinyl
- Accommodates 1/2" (12 mm) Tempered or 9/16" (13.52 mm) Laminated Tempered Glass When Wet Glazed

USE MONOLITHIC TEMPERED GLASS   or   USE LAMINATED TEMPERED GLASS

CRL US ALUMINUM® MANUFACTURED IN THE USA

ARS 200 Series Aluminum Railing System with Surface Mount 4" x 4" Posts with Gate

CRL 4" x 4" Square Posts and Surface Mount Post Kits

- 4" (102 mm) Square Posts
- Use for Centers, Ends or 90 Degree Corners
- Available in Three Different Heights

CRL 4" x 4" (102 x 102 mm) Square Aluminum Post Kits come complete with Base Plate (BP6), Moisture Barrier Gasket (BPG3BL), Base Plate Screws (BPS112), Stainless Steel Washers (WSHR1), Color Match Bolt Cover Buttons (BTN1), and Post Cap (PC4). See page 437B for Anchors or Lag Bolts for mounting to the substrate. Post Kits are available in your choice of three heights and seven attractive colors, plus mill aluminum. Custom heights and colors are also available.

.120" (3 mm) Wall Thickness

4" (102 mm)

4" (102 mm)

POST KITS INCLUDE:

- Kits Come Complete With Post, Top Cap, Base Plate, Moisture Barrier Gasket, Screws, Stainless Washers, and Bolt Cover Buttons

4" X 4" (102 X 102 MM) POST KITS

CAT. NO.*	DESCRIPTION	HEIGHT
4P36K	36" Post Kit	37" (940 mm)
4P42K	42" Post Kit	43" (1092 mm)
4P48K	48" Post Kit	49" (1244 mm)

Minimum order: 1 each. * Specify color when ordering.

4" X 4" (102 X 102 MM) POST ONLY

CAT. NO.*	DESCRIPTION	HEIGHT/LENGTH
4P36	36" Post	37" (940 mm)
4P42	42" Post	43" (1092 mm)
4P48	48" Post	49" (1244 mm)
4P241	20'-1" Stock Length	241" (6.12 m)#

Minimum order: 1 each. * Specify color when ordering. # Must ship common carrier.

STANDARD COLORS

| Sky White Gloss | Oyster White Gloss | Agate Gray Gloss | Beige Gray Gloss | Black Matte | Bronze Matte | Silver Metallic |

Colors shown are representative only, and may vary slightly from actual gloss, color, and texture. If color match is critical, please contact Technical Sales for additional information.

Additional Color Options - CRL has over 250 quick turn custom color options with the ability to color match as well.

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446B

TOLL Phone: (800) 421-6144
FREE Fax: (800) 262-3299
From Anywhere in the U.S. or Canada

CRL US ALUMINUM®

CRL Top Rails for 200, 300, and 350 Series Railing Systems

- Three Profiles to Choose From
- Seven Standard Colors, Plus Mill Aluminum
- Easy to Install

Top Rails for the 200, 300, and 350 Series Railing Systems are sold in 20'-1" (6.12 m) stock lengths that you can cut to fit your exact needs (see page 417B). Powder coated rails come in your choice of seven standard colors, or you can select from over 250 Quick Turn colors. Rails require Cat. No. RCB4 Connecting Blocks to fasten to 4" x 4" (102 x 102 mm) Posts (see below).

200 Series
(see page 417B)

300 Series
(see page 417B)

350 Series
(see page 417B)

CRL 6-1/2" Square Base Plates

- For Use With Our 4" x 4" (102 x 102 mm) Vertical Posts

This Square Base Plate screws into our 4" x 4" (102 x 102 mm) Vertical Post, and is countersunk to accept four Cat. No. BPS112 Base Plate Screws (shown below). Attach to substrate with Concrete Anchors or Lag Bolts (see page 437B). Use Cat. No. WSHR1 Stainless Steel Washers and Cat. No. BTN1 Color Match Bolt Cover Buttons (see page 439B) to add a finished look. One each Cat. No. BPG3BL Moisture Barrier Gasket is included with each Base Plate.

3/4" (19 mm)

5" (127 mm)

3/4" (19 mm)

6-1/2" (165 mm)

6-1/2" (165 mm)

Holes for Anchoring Posts

3/8" (10 mm) Thick

7/16" (11 mm) Dia. Anchoring Holes
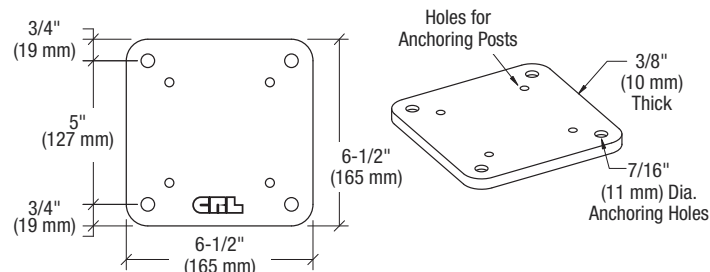
CAT. NO.	COLOR
BP6W	Sky White
BP60W	Oyster White
BP6AGY	Agate Gray
BP6BGY	Beige Gray
BP6BL	Matte Black
BP6BRZ	Matte Bronze
BP6S	Silver Metallic
BP6CRM	Mill Aluminum

Minimum order: 1 each.

CRL Standard Post Rail Connecting Blocks

- To Connect Top Rails to Vertical Posts

RCBS Screw (see page 428B)

Rail Connecting Block

1-1/8" (29 mm)

2-3/8" (60 mm)
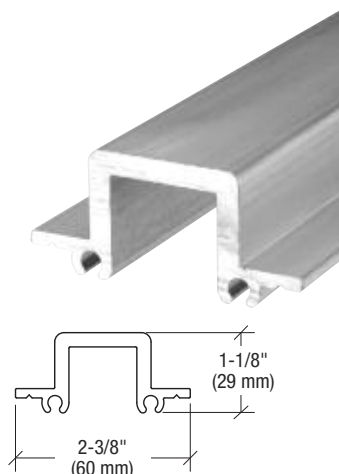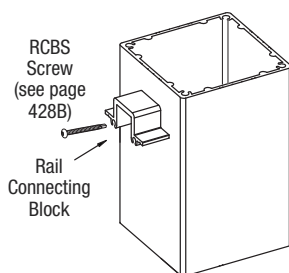
Use CRL Rail Connecting Blocks to connect the 200, 300, and 350 Series Top Rails to a 4" x 4" (102 x 102 mm) Vertical Post or a wall. Screw Block into index grooves on post using Cat. No. RCBS Rail Connecting Block Screws (see page 428B). Miter cut the 12" (305 mm) or 241" (6.12 m) lengths when building stairs, slopes, and angles. All Connecting Blocks are extruded aluminum with a weather-resistant chromate finish.

CAT. NO.	LENGTH
RCB4	1" (25 mm)
RCB412	12" (305 mm)
RCB4241	241" (6.12 m)#

Minimum order: 1 each. #Must ship common carrier.

Magni is a registered trademark of the Magni Group, Inc.

CRL Base Plate Screws

- For Use With All Square Base Plates

The CRL Base Plate Screw is designed to secure Base Plates into the screw race of Vertical Posts. Phillips Head Screw fits flush beneath the Base Plate. AISI 4037 alloy steel with Magni® 550 to protect against corrosion.

4" x 4" (102 x 102 mm) Square Post

BP6 Square Base Plate

BPS112 Screws

CAT. NO.	DESCRIPTION	SIZE
BPS112	Base Plate Screw	#14 x 1-1/2" (38 mm)

Minimum order: 50 each. Must be ordered in increments of 50.

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447B

TOLL Phone: (800) 421-6144
FREE Fax: (800) 262-3299
From Anywhere in the U.S. or Canada

CRL 4" x 4" Standard Post Caps

- Seven Standard Colors, Plus Mill Aluminum
- Custom Powder Coated Finishes Also Available
- Easy to Install

CAT. NO.	COLOR
PC4W	Sky White
PC40W	Oyster White
PC4AGY	Agate Gray
PC4BGY	Beige Gray
PC4BL	Matte Black
PC4BRZ	Matte Bronze
PC4S	Silver Metallic
PC4CRM	Mill Aluminum

Minimum order: 1 each.

CRL 4" x 4" (102 x 102 mm) Standard Post Caps are designed to fit our 4" x 4" Square Aluminum Posts. They protect the exposed top edge from weather and debris. Caps install easily with CRL 95CBL Silicone (see page 125B).

STANDARD COLORS FOR ALL 4" X 4" (102 X 102 MM) SQUARE POST CAPS

Sky White Gloss	Oyster White Gloss	Agate Gray Gloss	Beige Gray Gloss	Black Matte	Bronze Matte	Silver Metallic

Colors shown are representative only, and may vary slightly from actual gloss, color, and texture. If color match is critical, please contact Technical Sales for additional information.

Additional Color Options - CRL has over 250 quick turn custom color options with the ability to color match as well.

CRL 4" x 4" Sirius Series Decorative Post Caps

- For Use With CRL's 4" x 4" (102 x 102 mm) Square Aluminum Post Kits
- Seven Standard Colors, Plus Mill Aluminum
- Custom Powder Coated Finishes Also Available
- Easy to Install

CAT. NO.	COLOR
PCS1W	Sky White
PCS10W	Oyster White
PCS1AGY	Agate Gray
PCS1BGY	Beige Gray
PCS1BL	Matte Black
PCS1BRZ	Matte Bronze
PCS1S	Silver Metallic
PCS1CRM	Mill Aluminum

Minimum order: 1 each.

CRL's Sirius Series Post Caps are manufactured from powder coated cast aluminum components, and are designed to surface mount to the top of our standard 4" x 4" (102 x 102 mm) Square Post Kits. These surface mount caps offer a decorative look as they protect the top of the post from weather and debris. Caps install easily with self tapping/drilling screws and CRL 95CBL Silicone (see page 125B).

CRL 4" x 4" Titan Series Decorative Post Caps

- For Use With CRL's 4" x 4" (102 x 102 mm) Square Aluminum Post Kits
- Seven Standard Colors, Plus Mill Aluminum
- Custom Powder Coated Finishes Also Available
- Easy to Install

CAT. NO.	COLOR
PCS2W	Sky White
PCS20W	Oyster White
PCS2AGY	Agate Gray
PCS2BGY	Beige Gray
PCS2BL	Matte Black
PCS2BRZ	Matte Bronze
PCS2S	Silver Metallic
PCS2CRM	Mill Aluminum

Minimum order: 1 each.

CRL's Titan Series Post Caps are manufactured from powder coated cast aluminum components and are designed to surface mount to the top of our standard 4" x 4" (102 x 102 mm) Square Post Kits. These surface mount caps offer a decorative look as they protect the top of the post from weather and debris. Caps install easily with self tapping/drilling screws and CRL 95CBL Silicone (see page 125B).

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448B

TOLL Phone: (800) 421-6144
FREE Fax: (800) 262-3299
From Anywhere in the U.S. or Canada

CRL
US ALUMINUM

CRL Decorative Cap Light for 4" x 4" Vertical Aluminum Posts

- Great for Illuminating Walkways or Pool Areas
- Low Voltage Circuit Includes 18-Watt Bulb
- 12 Volts and UL/CUL Listed
- Durable, Weatherproof Finish
- Seven Standard Colors, Plus Mill Aluminum
- Custom Colors Available on Request
- Fast and Easy Installation

This Decorative Cap Light comes with bulb socket, bulb, and 12 Volt wiring. Designed to attach to CRL 4" x 4" (102 x 102 mm) Vertical Aluminum Posts to give the railing system a unique appearance and natural glow. Made from solid cast aluminum, this Cap Light is a safe and sturdy component for our Aluminum Railing line. Please consult a local electrician for wiring instructions and power supply.

CAT. NO.	COLOR
PCL1W	Sky White
PCL10W	Oyster White
PCL1AGY	Agate Gray
PCL1BGY	Beige Gray
PCL1BL	Matte Black
PCL1BRZ	Matte Bronze
PCL1S	Silver Metallic
PCL1CRM	Mill Aluminum

Minimum order: 1 each. See page 427B for color chart.

CRL Post Mounted Decorative Light With Hood

- Gives Railing a Unique Appearance
- Illumination Adds Safety to Walkways or Pool Areas
- Low Voltage Circuit Includes 20-Watt Bulb
- 12 Volts and UL Listed
- Seven Standard Colors, Plus Mill Aluminum
- Custom Colors Available on Request
- Fast and Easy Installation
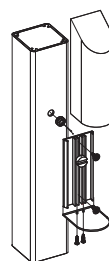
This Aluminum Post Mounted Decorative Light With Hood comes with backer, socket, 20-watt bulb, and 6" (152 mm) of lead wire. This unit mounts attractively on our 4" x 4" (102 x 102 mm) Vertical Posts or our 2-3/8" (60 mm) Rectangular Posts. It is not recommended for our 3" (76 mm) Diameter Round Posts. Please consult a local electrician for wiring instructions and power supply.

CAT. NO.	COLOR
ACH1W	Sky White
ACH10W	Oyster White
ACH1AGY	Agate Gray
ACH1BGY	Beige Gray
ACH1BL	Matte Black
ACH1BRZ	Matte Bronze
ACH1S	Silver Metallic
ACH1CRM	Mill Aluminum

Minimum order: 1 each. See page 427B for color chart.

CRL Post Mounted LED Light

- Gives Railing a Unique Appearance
- Seven Standard Colors, Plus Unfinished Chromate
- Custom Colors Also Available
- Fast and Easy Installation
- 50,000 Hour Bulb Life
- Low Voltage, 12 Volts With 1.6-Watt LED
- Brilliant 57k Blue White Light Output

This Post Mounted LED Light attaches to 4" x 4" (102 x 102 mm) Vertical Posts or 2-3/8" (60 mm) Rectangular Posts to give the railing system a unique appearance. Low voltage, long lasting 50,000 hour bulb life. Please consult a local electrician for wiring instructions and power supply.

Post
Wiring
Surface Mounted Light
12-24 Flat Head Phillips Anchor
Set Screw
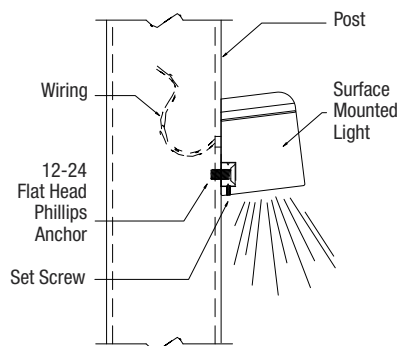
CAT. NO.*	DESCRIPTION
LED1C	Post Mounted LED Light

Minimum order: 1 each. * Please specify color when ordering. See page 427B for color chart.

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449B

TOLL Phone: (800) 421-6144
FREE Fax: (800) 262-3299
From Anywhere in the U.S. or Canada

CRL US ALUMINUM

CRL Kwixset™ and Rockite™ Expanding Cements

- Kwixset™ for Both Exterior and Interior Applications
- Rockite™ for Interior Applications Only
- Great for Setting Core Mount Stanchions for Vertical Posts
- Expand as They Set
- Fast Setting, They Will Not Shrink or Crack When Used as Directed

SDS ONLINE

SPEC. DATA ONLINE
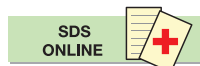
For EXTERIOR and INTERIOR Applications

For INTERIOR Applications Only

CRL Kwixset™ and Rockite™ are gray, hydraulic type cements that expand as they set, and are specially formulated to produce unexcelled strength and bonding qualities. When mixed with water they pour into place smoothly. Both set within 15 to 20 minutes, and when fully cured develop compression strengths in excess of 8,000 pounds per square inch.

Kwixset™ is not affected by standing water, making it the right cement for exterior use, while the more economical Rockite™ is great for any interior application. Use either product to set railing brackets, and other fixtures because they will not shrink, crack or dry out.

KWIXSET™ CEMENT

CAT. NO.	WEIGHT
KWX25	25 Pounds (11.3 kg)
KWX50	50 Pounds (22.7 kg)

Minimum order: 1 each. **NOTE:** Kwixset™ can be used in temperatures as low as 40˚F (4˚C).

ROCKITE™ CEMENT

CAT. NO.	WEIGHT
R0CK01	1 Pound (.454 kg)
R0CK05	5 Pounds (2.27 kg)
R0CK10	10 Pounds (4.54 kg)
R0CK50	50 Pounds (22.7 kg)

Minimum order: 1 each. **NOTE:** Rockite™ can be used in temperatures as low as 25˚F (-4˚C).

CRL Cement Mixing Kit

- Everything Needed to Accurately Measure and Mix Expanding Cement
- Buy the Kit or Order Items Individually

CAT. NO. MX91
High Speed Mixer
(Sold Separately)
1/2" (13 mm) diameter shaft
Minimum order is one each

We have developed a kit with a combination of accessories that makes it easier to get the proper mixture of water and expanding cement.

CAT. NO.	DESCRIPTION
GRP30	Mixing Kit with one of each: 1000cc Pitcher (Water); 3000cc Pitcher (Dry Cement), 3.5 gl. Pouring Pail, Plastic Scoop, Mixing Spoon
GRP31	Set of Mixing Pitchers: 1000cc (Water), 3000cc (Dry Cement)
GRP32	3.5 Gallon (13.2 liter) Pouring Pail
GRP33	Plastic Scoop
GRP34	Mixing Spoon

Minimum order: 1 each.

CRL Bituminous Paint

- Creates a Barrier Between Railing Hardware and Concrete
- Prevents Electrolysis From Dissimilar Metals and Corrosion From Concrete

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NO AIR FREIGHT

CAT. NO. BC17A
15 Ounces (425 Grams)

CAT. NO. BC5GL
5 Gallon Pail
(Net 4.7 Gallons/17.8 Liters)

CRL Bituminous Black Paint is used as a barrier to protect CRL Base Shoe, Posts, Railings, and Stanchions from electrolysis and corrosion when embedded in concrete. Simply spray or brush on a clean and dry surface and allow to dry before embedding in concrete. Minimum order is one each.

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TOLL Phone: (800) 421-6144
FREE Fax: (800) 262-3299
From Anywhere in the U.S. or Canada

or enter the Catalog Number for complete product information

CRL US ALUMINUM

CRL 1-1/2" (38 mm) Diameter Quick Connect Hand Rail System

- Designed for Stairway and Handicap Ramp Areas
- Meets and Exceeds ADA Requirements
- Exterior and Interior Applications
- Seven Standard Powder Coated Finishes, Plus Mill Aluminum
- Easy to Install
- 6005 Alloy Pre-Treated Aluminum/T5 Temper

CRL's Quick Connect Hand Rail System is designed for stairways, handicap ramps, and any areas that require hand rails. This system can used with any of CRL's ARS Aluminum Railing Systems and can be custom powder coated to match job specific requirements. Designed for exterior and interior applications and offered in seven standard colors, plus mill aluminum this hand rail system will save you labor during installation and give you a great look when Building Codes require a hand rail.

Typical ARS Quick Connect Hand Rail Installation

ONLINE *INSTALLATION* R E S O U R C E S

CRL
US ALUMINUM
MANUFACTURED IN THE USA

CRL's ARS Aluminum Railing System

Cat. No. ARHR15
1-1/2" (38 mm) Diameter Hand Rail Tubing

Cat. No. AR35
1-1/2" (38 mm) Diameter Custom Angle Corners

Cat. No. ARLR1
Looped Hand Rail Return

Cat. No. RCB36
Hand Rail Connector Splice Sleeve

Cat. No. ARHB1
Hand Rail Bracket

Cat. No. AR1EC
Hand Rail Color Match End Cap
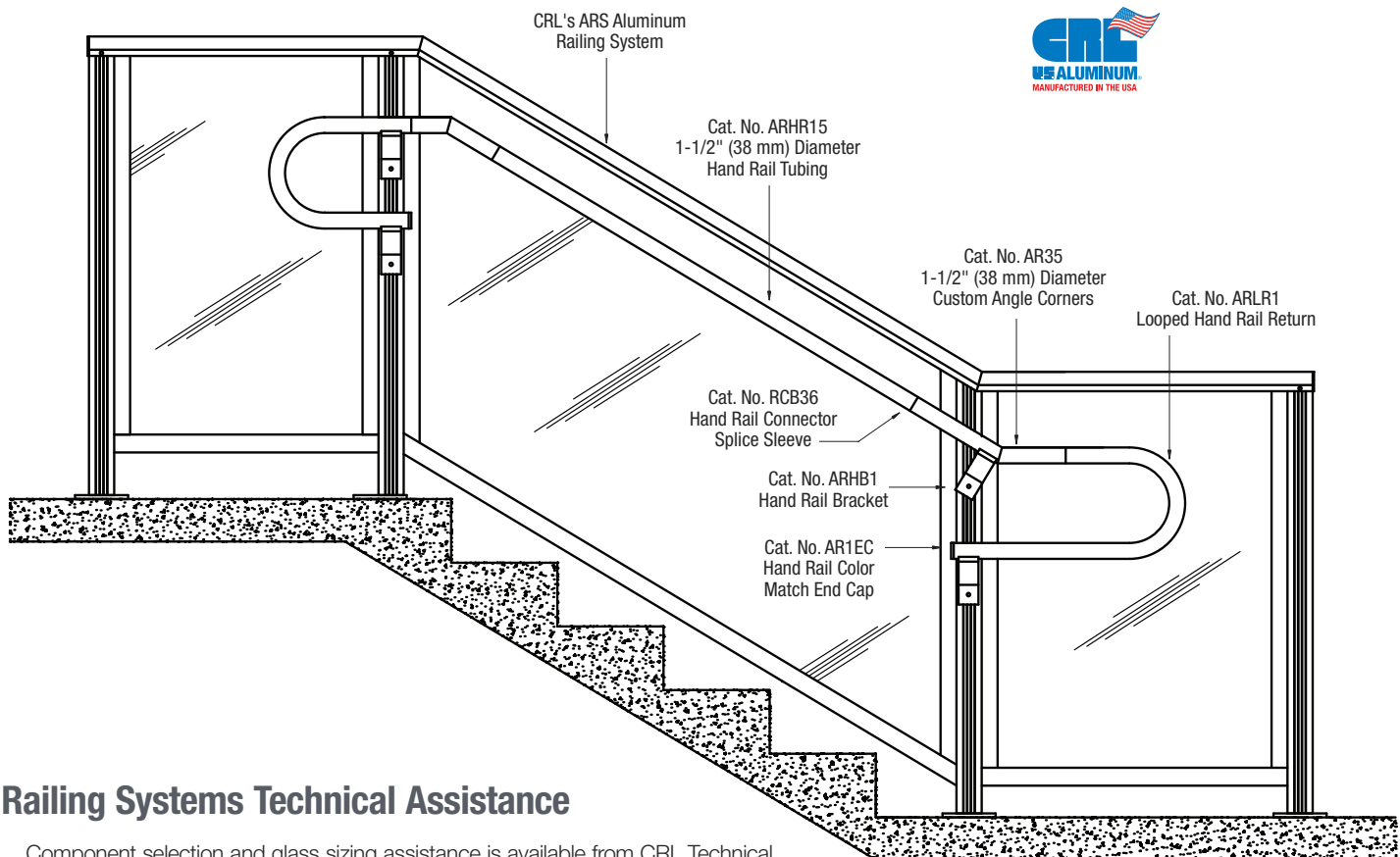
Railing Systems Technical Assistance

Component selection and glass sizing assistance is available from CRL Technical Sales. Allow our Railing Specialists to help you choose the right number and size of components to finish your planned installation with a minimum of waste. Call (800) 421-6144 in the U.S., (877) 421-6144 from Canada, or (323) 588-1281 International. Ask for Extension 7730. You can also send an e-mail to **railings@crlaurence.com**.

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451B

TOLL Phone: (800) 421-6144
FREE Fax: (800) 262-3299
From Anywhere in the U.S. or Canada

CRL®
US ALUMINUM

CRL Quick Connect 1-1/2" (38 mm) Diameter Aluminum Hand Rail

- Seven Standard Powder Coated Finishes, Plus Mill Aluminum
- 20'-1" (6.12 m) Long Stock Lengths
- 6005 Alloy Pre-Treated Aluminum/T5 Temper

CRL's 1-1/2" (38 mm) Diameter Hand Rail is sold in 20'-1" (6.12 m) lengths and is available in seven standard powder coated finishes, plus mill aluminum. Custom finishes, lengths, and special fabrication is also available. Contact CRL Technical Sales for more information.

1-1/2" (38 mm)

1/8" (3 mm) Thick Wall
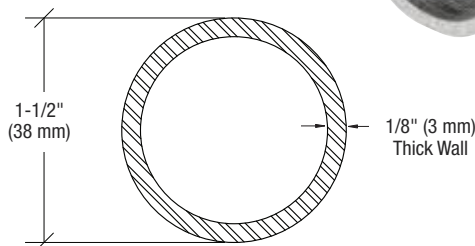
CAT. NO.	COLOR
ARHR15W	Sky White
ARHR150W	Oyster White
ARHR15AGY	Agate Gray
ARHR15BGY	Beige Gray
ARHR15BL	Matte Black
ARHR15BRZ	Matte Bronze
ARHR15S	Silver Metallic
ARHR15CRM	Mill Aluminum

Minimum order: 1 each. Must ship via common carrier.

STANDARD COLORS

Sky White Gloss	Oyster White Gloss	Agate Gray Gloss	Beige Gray Gloss	Black Matte	Bronze Matte	Silver Metallic

Colors shown are representative only, and may vary slightly from actual gloss, color, and texture. If color match is critical, please contact Technical Sales for additional information.

Additional Color Options - CRL has over 250 quick turn custom color options with the ability to color match as well.

CRL Quick Connect 90 Degree Corner

CRL U.S. ALUMINUM — MANUFACTURED IN THE USA

- Seven Standard Colors, Plus Mill Aluminum
- Ready to Install
- Welded and Finished 1-1/2" (38 mm) Diameter Tubing
- Custom Angles Also Available

1-1/2" (38 mm)

12" (305 mm)

90°

12" (305 mm)
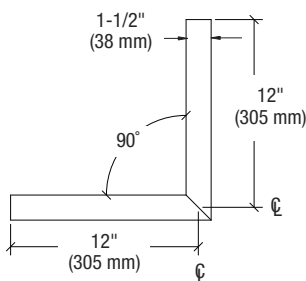
Each CRL Quick Connect 90 Degree Corner is fabricated, finished, powder coated, and individually packed. The 90 Degree Corners can be used for horizontal and vertical applications. Use CRL Cat. No. RCB36 connector splices for joining hand rail together (see page 453B).

CAT. NO.	COLOR
AR90W	Sky White
AR900W	Oyster White
AR90AGY	Agate Gray
AR90BGY	Beige Gray
AR90BL	Matte Black
AR90BRZ	Matte Bronze
AR90S	Silver Metallic
AR90CRM	Mill Aluminum

Minimum order: 1 each. All Railing Corners can be combined for quantity pricing.

CRL Quick Connect 135 Degree Corner

CRL U.S. ALUMINUM — MANUFACTURED IN THE USA

- Seven Standard Colors, Plus Mill Aluminum
- Ready to Install
- Welded and Finished 1-1/2" (38 mm) Diameter Tubing
- Custom Angles Also Available

1-1/2" (38 mm)

135°

12" (305 mm)

12" (305 mm)
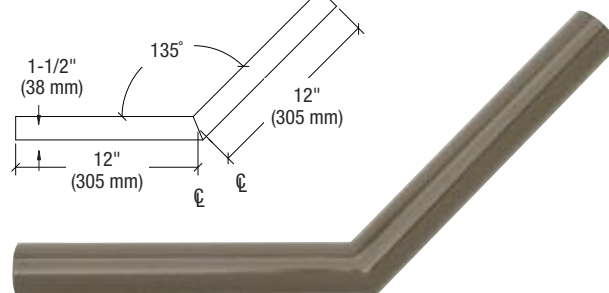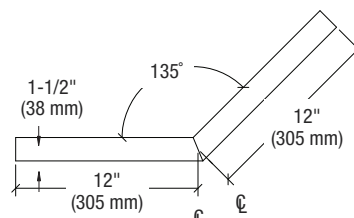
Each CRL Quick Connect 135 Degree Corner is fabricated, finished, powder coated, and individually packed. The 135 Degree Corners can be used for horizontal and vertical applications. Use CRL Cat. No. RCB36 connector splices for joining hand rail together (see page 453B).

CAT. NO.	COLOR
AR35W	Sky White
AR350W	Oyster White
AR35AGY	Agate Gray
AR35BGY	Beige Gray
AR35BL	Matte Black
AR35BRZ	Matte Bronze
AR35S	Silver Metallic
AR35CRM	Mill Aluminum

Minimum order: 1 each. All Railing Corners can be combined for quantity pricing.

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TOLL Phone: (800) 421-6144
FREE Fax: (800) 262-3299
From Anywhere in the U.S. or Canada

CRL U.S. ALUMINUM

CRL Quick Connect Aluminum Hand Rail Bracket

PRS1032TC Fasteners Sold Separately
(see page 303B)

- Seven Standard Powder Coated Finishes, Plus Mill Aluminum
- Shaped for 1-1/2" (38 mm) Hand Rail Tubing
- 6005 Alloy Pre-Treated Aluminum/T5 Temper
- Ready to Install

CRL Quick Connect Aluminum Hand Rail Brackets are available in seven standard colors for 1-1/2" (38 mm) diameter hand rail tubing. Brackets are individually packed with one #14 x 3/4" (19 mm) self drilling stainless steel attachment screw.

CAT. NO.	COLOR
ARHB1W	Sky White
ARHB10W	Oyster White
ARHB1AGY	Agate Gray
ARHB1BGY	Beige Gray
ARHB1BL	Matte Black
ARHB1BRZ	Matte Bronze
ARHB1S	Silver Metallic
ARHB1CRM	Mill Aluminum

Minimum order: 1 each. All Railing Brackets can be combined for quantity pricing.

2-1/2" (64 mm)
1-3/4" (45 mm)
4-5/16" (110 mm)
2-11/16" (68 mm)
5/16" (8 mm)
15/16" (24 mm)
1/4" (6 mm)
4-5/16" (110 mm)
1-7/8" (48 mm)
15/16" (24 mm)
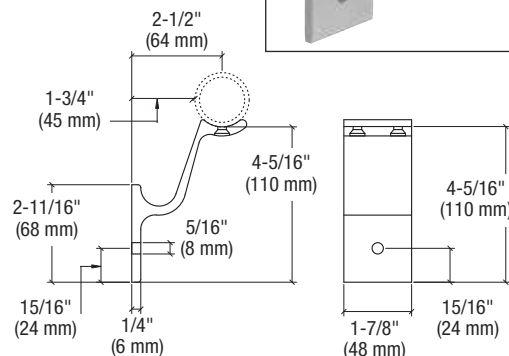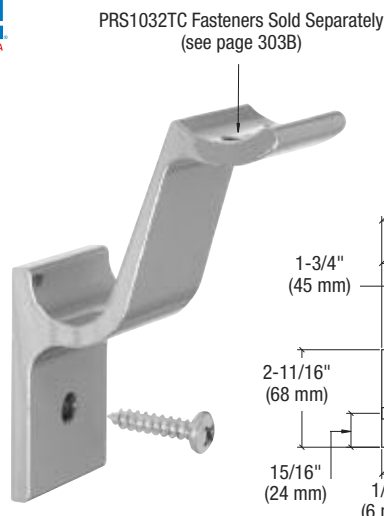
CRL Quick Connect Stabilizing Aluminum Sleeves

- Used to Stabilize End Sections of 1-1/2" (38 mm) Hand Rail Diameter Tubing
- Provides Proper Alignment at Splices
- 6005 Alloy Aluminum/T5 Temper

CRL Quick Connect Sleeves are used to connect and provide proper alignment between railing splices. You can also use these as Stabilizing Sleeves to terminate a hand rail into a wall or post by anchoring the aluminum sleeve prior to sleeving the hand rail into place. Use CRL Cat. No. RCBS #10 x 2" (51 mm) screws for wall mount conditions. Use of our Cat. No. 7649 Primer and Cat. No. 32629 Metal Contact Cement (see page 239B) is required to achieve a secure and permanent bond.

CAT. NO.	MATERIAL	SIZE
RCB3	Mill Aluminum	1" (25 mm)
RCB36	Mill Aluminum	6" (152 mm)
RCB3241	Mill Aluminum	241" (6.12 m)#

Minimum order: 1 each. All Railing Connectors can be combined for quantity pricing. # Must ship via common carrier.

1-1/4" (32 mm)
1-3/16" (30 mm)
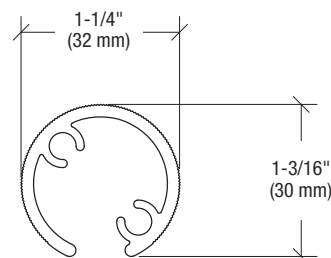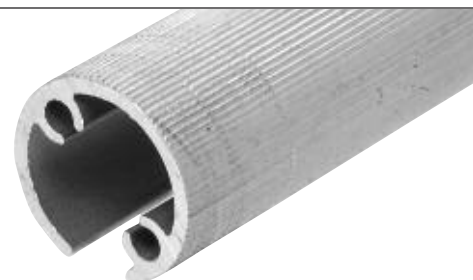
CRL Quick Connect Color Match End Cap

- Seven Standard Colors Available, Plus Mill Aluminum
- For Use With 1-1/2" (38 mm) Diameter Tubing
- 6005 Alloy Pre-Treated Aluminum/T5 Temper
- Snap-On Fit

CRL Color Match End Caps are designed to easily pressure fit into the ends of our 1-1/2" (38 mm) diameter Hand Rail Tubing. No silicone or contact cement is required during installation.

CAT. NO.	COLOR
AR1ECW	Sky White
AR1EC0W	Oyster White
AR1ECAGY	Agate Gray
AR1ECBGY	Beige Gray
AR1ECBL	Matte Black
AR1ECBRZ	Matte Bronze
AR1ECS	Silver Metallic
AR1ECCRM	Mill Aluminum

Minimum order: 1 each.

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TOLL Phone: (800) 421-6144
FREE Fax: (800) 262-3299
From Anywhere in the U.S. or Canada

CRL US ALUMINUM

CRL Quick Connect Looped Hand Rail Return

- Seven Standard Colors Available, Plus Mill Aluminum
- Custom Sizes and Colors Also Available
- Use With 1-1/2" (38 mm) Diameter Tubing
- 1/8" (3 mm) Wall Thickness

24" (610 mm)
9" (229 mm)
1-1/2" (38 mm) Diameter
R 3-3/4" (95 mm)
10-1/2" (267 mm)

The ends are designed to be cut to size at the job site
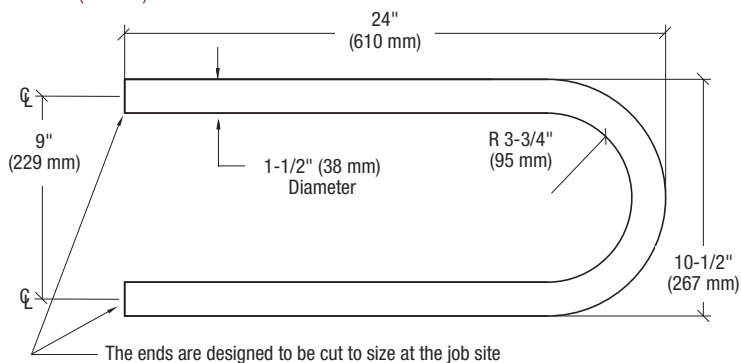
Each 1-1/2" (38 mm) Diameter Quick Connect Looped Return is designed for hand rail applications that cannot return to the wall or floor. The Looped Returns are designed to be field fabricated to size for job site condition. End Caps and Splice Plates are sold separately (see pages 456B and 458B).

CAT. NO.	COLOR
ARLR1W	Sky White
ARLR10W	Oyster White
ARLR1AGY	Agate Gray
ARLR1BGY	Beige Gray
ARLR1BL	Matte Black
ARLR1BRZ	Matte Bronze
ARLR1S	Silver Metallic
ARLR1CRM	Mill Aluminum

Minimum order: 1 each. All Railing Returns can be combined for quantity pricing. See page 427B for color chart.

CRL Quick Connect Wall Hand Rail Return

- Seven Standard Colors Available, Plus Mill Aluminum
- Use With 1-1/2" (38 mm) Diameter Tubing
- 1/8" (3 mm) Wall Thickness

Each Quick Connect Wall Return is fabricated, finished, powder coated, and individually packaged. These hand rail returns are designed for terminating a hand rail into a wall or post at the end of a run. Use CRL Cat. No. RCB36 connector splices for joining hand rail together (see page 453B).

1-1/2" (38 mm) Diameter
Color Match End Caps Sold Separately (see page 453B)
2-5/8" (67 mm)
12" (305 mm)
Welded and Powder Coated
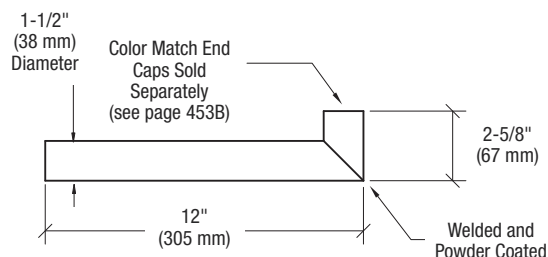
CAT. NO.	COLOR
ARWR1W	Sky White
ARWR10W	Oyster White
ARWR1AGY	Agate Gray
ARWR1BGY	Beige Gray
ARWR1BL	Matte Black
ARWR1BRZ	Matte Bronze
ARWR1S	Silver Metallic
ARWR1CRM	Mill Aluminum

Minimum order: 1 each. All Railing Returns can be combined for quantity pricing. See page 427B for color chart.

CRL Railing Technical Assistance

CRL Railing Technical Sales can be reached Monday through Friday from 6:00 am to 5:00 pm Pacific Time. Phone toll free (800) 421-6144 from anywhere in the U.S., (877) 421-6144 from anywhere in Canada, or (323) 588-1281 International, and ask for Ext. 7730. You can also send an e-mail request to **railings@crlaurence.com**.

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TOLL Phone: (800) 421-6144
FREE Fax: (800) 262-3299
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CRL
US ALUMINUM

CRL Aluminum Component Railing System (ACRS)

- Combines the Clean Look of Welded Railings With the Benefits of Mechanical Systems
- Designed to Meet Most Building Codes

- Corrosion Resistant Satin Anodized Finish
- Custom Powder Coat Finishes Also Available
- Pre-Fabricated Systems Available on Special Order

The CRL Aluminum Component Railing System (ACRS) utilizes 1-1/2" Schedule 40 Aluminum Pipe with a 1.9" (48 mm) outside diameter and .145" (4 mm) wall thickness. We offer a wide selection of component fittings to allow the installer the freedom and ability to create an attractive aluminum railing system without costly welding and refinishing.

There are three easy ways to order: individual components; pre-assembled posts with individual components and stock lengths for field fabrication of the horizontal runs; and complete pre-fabricated systems that are cut to your specifications and ready to install. For a complete listing of all component parts see pages 456B-460B or go to **crlaurence.com/acrs**.

NOTE: Designed for industrial hand rail and guard rail applications such as bleachers, platforms, material handling carts, playgrounds, store fixturing, parking garages, safety rails, public works facilities, petro/chemical installations, and more!

For Use With HR19SA
Satin Anodized Tubing
(see page 456B)

Technical Assistance

- Component Selection Assistance Available to Make Ordering Simple

Component selection assistance is available from CRL Technical Sales. Allow our Railing Specialists to help you choose the right number and style of components to finish your planned installation with a minimum of waste. Call (800) 421-6144 in the U.S., (877) 421-6144 from Canada, or (323) 588-1281 International, and ask for Ext. 7730. You can also send us e-mail at **railings@crlaurence.com**.

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TOLL Phone: (800) 421-6144
FREE Fax: (800) 262-3299
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CRL US ALUMINUM

CRL ACRS Hand Rail Tubing

- Ready to Install
- Satin Anodized Finish
- Requires End Caps, Splice Couplings, or Adaptors (Not Included)

CRL ACRS Hand Rail Tubing is formed using precision tooling to maintain uniform diameters, allowing for smooth hairline transitions at splices and end caps. Wall thickness is .145" (4 mm).

1-1/2" SCH 40 Pipe (1.9" O.D.)

1-29/32" (48 mm)

.145" (4 mm)

CAT. NO.	FINISH	LENGTH
HR19SA	Satin Anodized	240" (6.10 m)

Minimum order: 1 each. All Hand Rail Tubing can be combined for quantity pricing. Must ship common carrier.
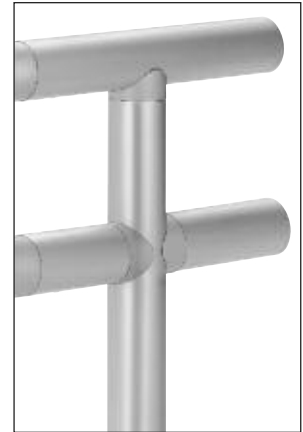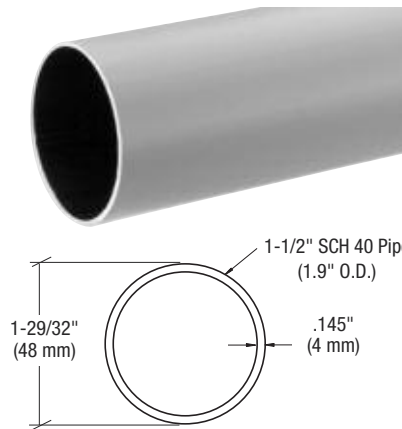
CRL ACRS 90 Degree Elbow

- Smooth Radius
- Satin Anodized Finish
- Powder Coat Finishes Available on Special Order

CRL ACRS 90 Degree Elbows are used to make smooth radius transitions of Schedule 40 Aluminum Pipe used as ACRS tubing around 90 degree corners. For Drilling Jig see page 459B. **NOTE:** Elbows are a cast part, and some color variation from the Pipe to the Elbows will occur.

CAT. NO. A1990E
Minimum order: 1 each

CRL ACRS End Cap

- Ready to Install
- Satin Anodized Finish
- Powder Coat Finishes Available on Special Order

CRL ACRS End Caps are simple to install, just position them over a clean, square cut end of your Schedule 40 Aluminum Pipe used as ACRS tubing and drive them into place using a rubber mallet. **NOTE:** End Caps are a cast part, and some color variation from the Pipe to the Caps will occur.

1-29/32" (48 mm)

11/32" (9 mm)

CAT. NO. A19FEC
Minimum order: 1 each

CRL ACRS Wall Return

- Terminates a Hand Rail
- Satin Anodized Finish
- Powder Coat Finishes Available on Special Order

The CRL ACRS Wall Return is made from 1-1/2" Schedule 40 Aluminum Pipe and is used to make a smooth radius return back to a wall when terminating a hand rail. **NOTE:** Splice Couplings must be ordered separately (see page 458B).

12" (305 mm)
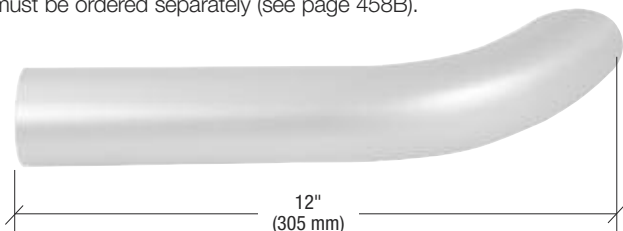
CAT. NO. A19WR
Minimum order: 1 each

CRL ACRS End Loop

- A.D.A. Code Compliant
- Satin Anodized Finish
- Custom Loops Available on Special Order

12" (305 mm)

20" (508 mm)

The CRL ACRS End Loop is made from 1-1/2" Schedule 40 Aluminum Pipe and is used to complete A.D.A. Code compliant hand rails at the top or bottom of a stair or ramp. **NOTE:** Splice Couplings (see page 458B) or Tee Adaptors (see page 457B) must be ordered separately.
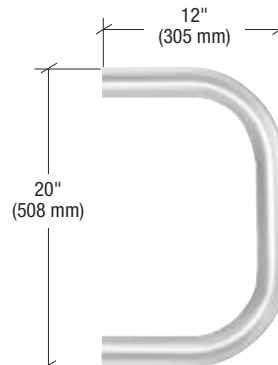
CAT. NO. A19EL
Minimum order: 1 each

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US ALUMINUM

CRL ACRS Straight Tee Adaptor

- Ready to Install
- Satin Anodized Finish
- Powder Coat Finishes Available on Special Order

CRL ACRS Straight Tee Adaptors are used to join posts and horizontal railings together to form 90 degree intersections. For ACRS Replacement Fastener Kit order Cat. No. A19FKT. For Drilling Jig see page 459B.

Tee Adaptor

5/16"-18 Cap Bolt

5/16"-18 Rivet Nut

3/8"-16 Set Screw

5/16" Lock Washer

Includes fasteners shown.

CAT. NO. A19STA
Minimum order: 1 each

CRL ACRS Cross Adaptors

- Ready to Install
- Satin Anodized Finish
- Powder Coat Finishes Available on Special Order

CRL ACRS Cross Adaptors are used to join posts and horizontal railings together to form four-way intersections from 145 to 180 degrees. For ACRS Replacement Fastener Kit order Cat. No. A19FKT. For Drilling Jig see page 459B.

5/16"-18 Cap Bolt

5/16"-18 Rivet Nut

3/8"-16 Set Screw

5/16" Lock Washer

Includes fasteners shown.
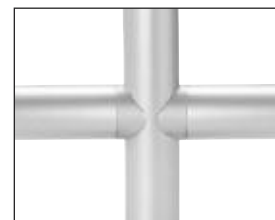
CAT. NO. A19CA
Minimum order: 1 each

CRL ACRS Corner Post Adaptor

- Ready to Install
- Satin Anodized Finish
- Powder Coat Finishes Available on Special Order

CRL ACRS Corner Post Adaptors are used to join posts and horizontal railings together to form 90 degree corners. For ACRS Replacement Fastener Kit order Cat. No. A19FKT. For Drilling Jig see page 459B.

3/8"-16 Set Screw

5/16" Lock Washer

5/16"-18 Rivet Nut

5/16"-18 Cap Bolt

Includes fasteners shown.

CAT. NO. A19CPA
Minimum order: 1 each

CRL ACRS Angled Tee Adaptors

- Satin Anodized Finish
- Powder Coat Finishes Available on Special Order

CRL ACRS Angled Tee Adaptors are used to join posts and horizontal railings together to form angled intersections for stairs and ramps. For ACRS Replacement Fastener Kit order Cat. No. A19FKT. For Drilling Jig see page 459B.

Upper Incline

Lower Incline

Upper Incline

Includes fasteners shown.

Lower Incline

5/16"-18 Cap Bolt

3/8"-16 Set Screw

5/16" Lock Washer

5/16"-18 Rivet Nut
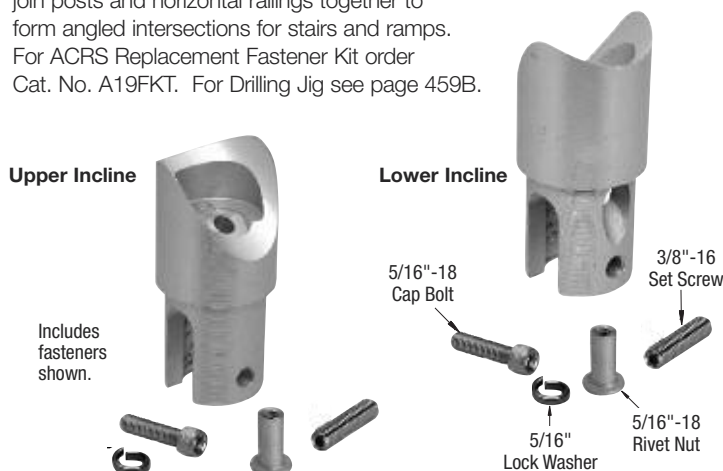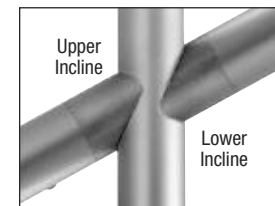
UPPER INCLINE CAT. NO.	LOWER INCLINE CAT. NO.	ANGLE
A19AT5	A190T5	5 Degrees
A19AT29	A190T29	29 Degrees
A19AT32	A190T32	32 Degrees

Minimum order: 1 each. All ACRS Adaptors can be combined for quantity pricing.

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CRL ACRS Upper Adjustable Tee Adaptors

- Ready to Install
- Adjusts From 10 to 42 Degrees
- Satin Anodized Finish
- Powder Coat Finishes Available on Special Order

CRL ACRS Upper Adjustable Tee Adaptors are used to join posts and horizontal railings together at varying angles for non-standard stair and ramp conditions. For ACRS Replacement Fastener Kit order Cat. No. A19FKT. For Drilling Jig see page 459B.

Tee

Trunion

5/16"-18 Cap Bolt

3/8"-16 Set Screw

5/16" Lock Washer

5/16"-18 Square Nut

Includes fasteners shown.

5/16"-18 Rivet Nut

5/16"-18 Cap Bolt

CAT. NO. A19UAT
Minimum order: 1 each

CRL ACRS Splice Coupling

- Easy Installation for a Strong and Secure Splice Joint

The CRL ACRS Splice Coupling is designed for use with 1-1/2" Schedule 40 Aluminum Pipe. Two 27/64" (11 mm) holes need to be drilled in the pipe to access the set screws to create a strong and secure splice joint. Set screws included.

4" (102 mm)
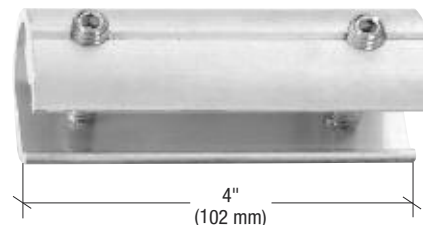
CAT. NO. A19SC
Minimum order: 1 each
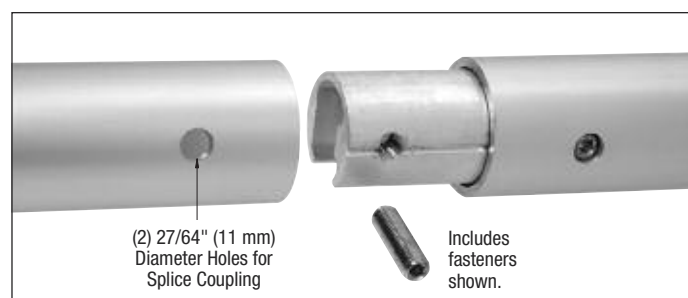
(2) 27/64" (11 mm) Diameter Holes for Splice Coupling

Includes fasteners shown.

CRL ACRS Lower Adjustable Tee Adaptors

- Ready to Install
- Adjusts From 10 to 42 Degrees
- Satin Anodized Finish
- Powder Coat Finishes Available on Special Order

CRL ACRS Lower Adjustable Tee Adaptors are used to join posts and horizontal railings together at varying angles for non-standard stair and ramp conditions. For ACRS Replacement Fastener Kit order Cat. No. A19FKT. For Drilling Jig see page 459B.

Tee

Trunion

5/16"-18 Cap Bolt

3/8"-16 Set Screw

5/16" Lock Washer

5/16"-18 Square Nut

Includes fasteners shown.

5/16"-18 Rivet Nut

5/16"-18 Cap Bolt

CAT. NO. A19LAT
Minimum order: 1 each

CRL ACRS Tangent Bend

- Satin Anodized Finish
- Powder Coat Finishes Available on Special Order
- Custom Angles Available on Special Order

The CRL ACRS Tangent Bend is used to transition from level to sloped sections of a railing at stairs or ramps. **NOTE:** Splice Couplings (see above) or Tee Adaptors (see page 457B) must be ordered separately

8-1/2" (216 mm)

8-1/2" (216 mm)

5, 29, or 32 Degrees

5" (127 mm) Centerline Radius

27/64" (11 mm) Dia. Hole for Splice Coupling

Upper Incline shown
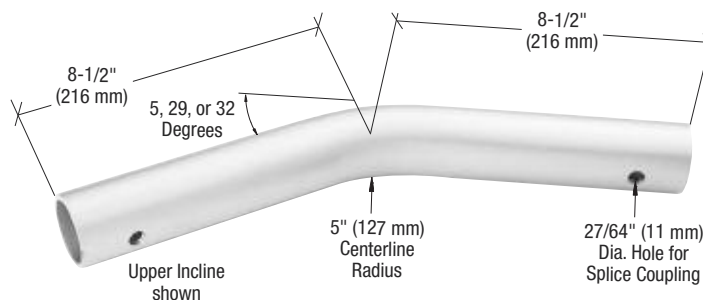
UPPER INCLINE CAT. NO.	LOWER INCLINE CAT. NO.	ANGLE
A19ABN5	A190BN5	5 Degrees
A19ABN29	A190BN29	29 Degrees
A19ABN32	A190BN32	32 Degrees

Minimum order: 1 each. Can be combined for quantity pricing.

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TOLL Phone: (800) 421-6144
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US ALUMINUM

CRL ACRS Cover Flange

- Ready to Install
- Satin Anodized Finish
- Powder Coat Finishes Available on Special Order

The CRL ACRS Cover Flange is used to dress up core mounted installations, and give the project a finished look. It slips onto the 1-1/2" Schedule 40 Aluminum Pipe, and then slides down after installation of the post to cover the ring of grout typically visible on core mount installations. Set screw included.

2-1/4" (57 mm) 3/4" (19 mm) 3-1/4" (83 mm) 1/4" (6 mm) R3.25" (83 mm) R2.25" (57 mm)

CAT. NO.	FINISH
A19CVR	Satin Anodized

Minimum order: 1 each.
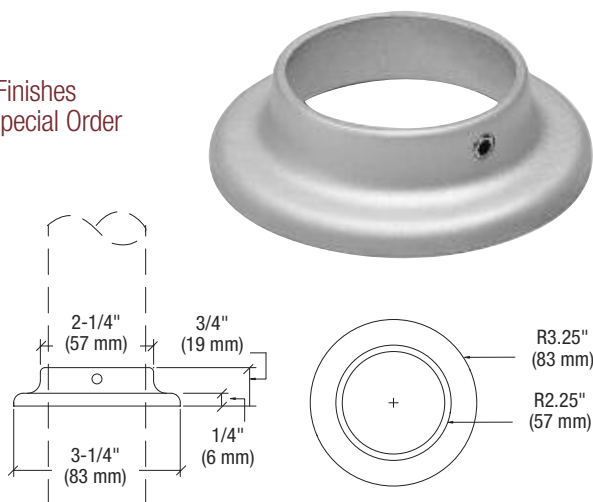
CRL ACRS Floor Flange

- Two Styles for Flat and Ramp Applications
- Satin Anodized Finish
- Powder Coat Finishes Available on Special Order

When core mounting is not an option, we offer two ACRS Floor Flanges for surface mounting your posts; one for flat applications, and one at 5 degrees for ramps.

NOTE: Flange mounting fasteners are not supplied. Consult a structural engineer for your specific mounting condition.

CAT. NO.	STYLE	FINISH
A19FF	Level	Satin Anodized
A19RF	Ramp	Satin Anodized

Minimum order: 1 each.

5" (127 mm) 2-9/16" (65 mm) 3" (76 mm) 1/2" (13 mm) 1-15/16" (49 mm)

CAT. NO. A19FF Level

5" (127 mm) 2-9/16" (65 mm) 3" (76 mm) 3-3/8" (86 mm) 1/2" (13 mm) 5 Degrees 1-15/16" (49 mm)
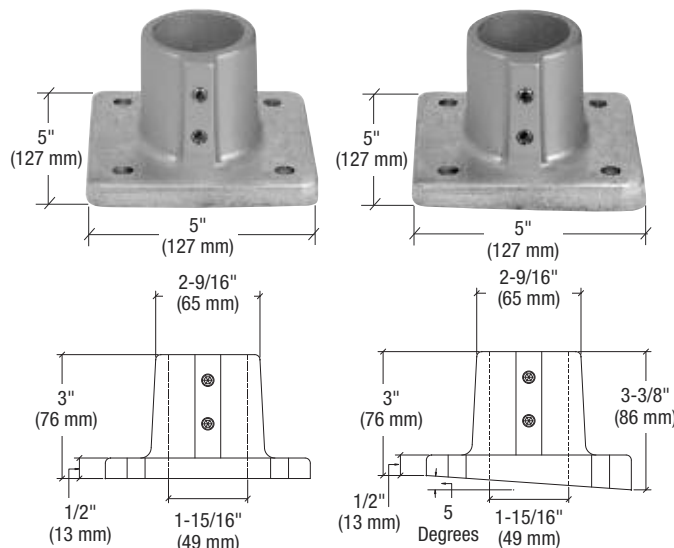
CAT. NO. A19RF Ramp
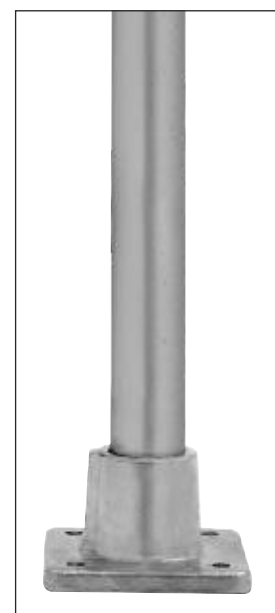
CRL ACRS Drilling Jig

- For Accurate Hole Locations Every Time

Stop Up for Intermediate Connection

Stop Down for End Connection

All CRL ACRS Adaptors and Splice Couplings require accurately drilled access holes in the 1-1/2" Schedule 40 Aluminum Pipe. Use our ACRS Drilling Jig to simplify the process; it's fast and accurate every time. Minimum order is one each.

CAT. NO. A19DJ

Aluminum Component Railing Accessories

Post Mounted Brackets
See Pages 362B-369B

Z-Series Glass Clamps
See Pages 306B-310B

Expanding Cements
See Page 450B

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TOLL Phone: (800) 421-6144 **FREE** Fax: (800) 262-3299 From Anywhere in the U.S. or Canada
CRL US ALUMINUM

CRL Post Rivet-Nuts

- ### Three Popular Sizes for Railing Systems

CRL's Rivet-Nut system is primarily designed for thin wall post applications to secure and support glass attachment fittings. Simply drill the appropriate size hole, insert the Rivet-Nut and compress it.

**CAT. NO.
134VB**

**CAT. NO.
RN1420**

**CAT. NO.
ZRNUT**

CAT. NO.	THREAD SIZE	REQUIRED HOLE	QTY/PKG
134VB	10-24	1/4" (6.3 mm)	100
RN1420	1/4"-20	25/64" (9.9 mm)	10
ZRNUT	5/16"-18	17/32" (13.5 mm)	10

Minimum order: 1 pack for 134VB; 10 each for RN1420 and ZRNUT. Must be purchased in increments of 10.

How Rivet-Nuts Work
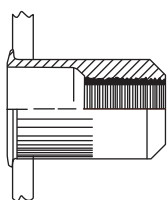
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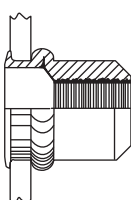
Compressed

CRL Rivet-Nuts enable you to fasten Glass Clamps, Clips, or any other fastener requiring threads into a hollow metal round post or square tube which may be too thin for tapped threads. After installation, CRL Rivet-Nuts provide a permanent, captive thread that resist high loads, and will not rotate when a screw or bolt is inserted. No special preparation is needed; a drilled or punched hole is all that is required. Installation is made easy with the CRL Cat. No. 34604 Heavy-Duty Thread Insert Tool shown below. The appropriate sized Mandrel is required to set each Rivet-Nut size.

First, drill the appropriate size hole for the Rivet-Nut into your round post or square tube.

Second, insert the Rivet-Nut into your round post or square tube until the collar on the Rivet-Nut is against the post or tube wall.

Third, compress the Rivet-Nut by using the CRL Cat. No. 34604 Heavy-Duty Thread Insert Tool.

Lastly, insert the screw or bolt into the Rivet-Nut and tighten the fitting to the post.

CRL Heavy-Duty Thread Insert Tool

- ### For Installing Large Size Rivet-Nuts and Thread Inserts
- ### Comes With 1/4"-20 Mandrel and Nosepiece

The CRL Heavy-Duty Thread Insert Tool is supplied with a 1/4"-20 Mandrel and Nosepiece. Use it to install aluminum or steel Rivet-Nuts and Poly-Nuts. A 5/16"-18 Mandrel and Nosepiece are sold separately. Works well with our Cat. No. RN1420 and Cat. No. ZRNUT Rivet-Nuts (see above).

**CAT. NO.
34604**

Mandrel and Nosepiece available separately

CAT. NO.	DESCRIPTION
34604	Heavy-Duty Thread Insert Tool
34617	1/4"-20 Mandrel and Nosepiece
34618	5/16"-18 Mandrel and Nosepiece

Minimum order: 1 each.

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CRL
US ALUMINUM

Glass Windscreen Systems

Aluminum Windscreen Systems

Frameless Windscreen Base Shoe System

Frameless Windscreen Clamp System   MODEL **NEW!**

Glass Bracing Clamps   **NEW!**

Glass Windscreen Systems

Heavy-Duty 180 Degree Posts   **NEW!**

Mini Post Systems   **NEW!**

Post Kits

"Rail Glass"   **NEW!**

Rectangular Post System

Round Post System

Security Check Point Barrier System

Square Windscreen Post System

Stainless Steel Clad Windscreen Systems

Stanchions (Core and Surface Mount)

TAPER-LOC® Tapers

CRL
U.S ALUMINUM®
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These products and more can be found in this catalog section. On the top and bottom of each page are direct search instructions for viewing them on our web site. You can also enter the catalog number into the Search Box for a direct link to the product and **More Choices** in that category. To view **More Choices**, simply click on the red and white icon to be taken to a larger selection.

MORE CHOICES
crlaurence.com
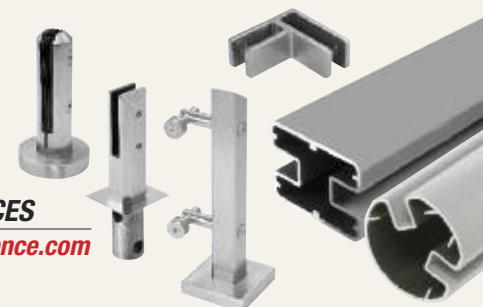
CRL Windscreen "Rail Glass"

NEW!

PAGE 462B

- Choice of Monolithic and Laminated Tempered Glass
- Clear, and Low Iron Starphire® Glass Available
- Cut, Tempered, and Ready to Install

Monolithic Tempered Glass

Laminated Tempered Glass

CRL now offers Glass to complete all your Windscreen projects. Designed for interior and exterior applications, our "Rail Glass" is fabricated in accordance with Federal Specifications.

CRL Point Supported Mini Post Systems

NEW!

PAGE 463B

- Frameless 'All-Glass' Look
- For Use With 1/2" or 9/16" (12 or 13.52 mm) Tempered Glass
- Ideal for Windscreens or Pool Decks

CRL's Point Supported Mini Post Systems are typically used for windscreens or pool deck surrounds. They were developed to create a barrier that minimizes distractions from vertical or horizontal frame members.

CRL Frameless Windscreen Clamp System

PAGES 464B-468B

- Core-Mounted, Surface-Mounted, or Fascia-Mounted Styles for 3/8", 1/2" and 9/16" (10, 12, and 13.52 mm) Tempered Glass
- Stainless Steel in Two Finishes

CRL's Frameless Glass Windscreen Clamp System is typically used for windscreens or pool deck surrounds. It is available in multiple designs for surface, core, and fascia mounted applications.

CRL Frameless Windscreen Base Shoe System

PAGES 469B-475B

- Great for Glass Windbreaks, Pool Enclosures, Perimeter Fencing, Sound Barriers, Balconies, and Other Applications That Are View-Oriented
- Designed and Engineered to Meet the Strictest Codes

CRL's Frameless Windscreen Base Shoe System is typically used for windbreaks, pool decks, and glass fencing surrounds. This system offers a virtually unobstructed view, and cladding in six architectural finishes.

CRL AWS Aluminum Windscreen System

PAGES 476B-495B

- Ready to Install
- Low Maintenance With Special Coating to Prevent Corrosion
- Seven Stock Colors, Plus Mill Aluminum

CRL's Aluminum Windscreen System was developed to provide a sturdy low maintenance transparent glass fence. This system is offered in seven standard powder coated finishes, and can be mounted to a wide range of substrates.

CRL Stainless Steel Clad Windscreen and Security Barrier Systems

PAGES 496B-500B

- Low Maintenance 304 Grade Cladded Stainless Steel Construction Designed for Interior and Exterior Core Mount and Surface Mount Applications
- Two Standard Stainless Steel Finishes Available

These Systems are great for barriers, glass fencing, windscreens, and guard rail applications when a hand rail is incorporated for fall protection.

Starphire is a registered trademark of PPG Industries Ohio, Inc.

CRL GLASS WINDSCREEN SYSTEMS

MORE *CHOICES*
crlaurence.com/glass-windscreens

CRL Glass Windscreen Systems

- Great for Glass Windscreens, Pool Enclosures, Perimeter Fencing,
  Sound Barriers, Balcony Windbreaks, and Other View Oriented Applications
- Designed and Engineered From 316 Grade Stainless Steel
  or T52 Tempered 6063 Alloy Aluminum
- Custom Fabrication is Also Available to Meet Your Specifications

USE MONOLITHIC
TEMPERED GLASS

or

USE LAMINATED
TEMPERED GLASS

CRL Glass Windscreen Systems are developed to provide an attractive low maintenance full vision appeal for any commercial or residential application. All CRL Glass Windscreen Systems can be easily mounted to a concrete slab, block wall or steel substrate. The systems support a wide range of glass panel thicknesses for monolithic and laminated tempered glass applications.

If our stock components do not fit your application, allow CRL to design and engineer a system that can. CRL has the ability to design, engineer and fabricate a custom system that will satisfy not only your needs for safety and security, but also your artistic tastes. For additional information go to **crlaurence.com/glass-windscreens**.
NOTE: Not designed for guard rail applications.

Visual Appeal - Noise Reduction - Privacy
Flexibility - Low Maintenance - Structural Integrity

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glass-windscreens   Search

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461B

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From Anywhere in the U.S. or Canada

CRL
US ALUMINUM

CRL WINDSCREEN "RAIL GLASS"

CRL Monolithic Tempered "Rail Glass" for Windscreens

NEW!

- For Any Windscreen or Railing Application
- All Glass Panels Ship Cut and Tempered, Ready to Install
- Three Standard Monolithic Glass Thicknesses to Choose From
- Clear Tempered and Low Iron Starphire® Glass Types Available
- Custom Sizes, Fabrication, Drilling, and Edge Work Available

Designed for windscreen applications, CRL's "Rail Glass" is fabricated and tempered in accordance with Federal Specifications: ANSI Z97.1, and CPSC 16, CFR 1201 standards. Custom sizes, fabrication, and edge work is also available. Wood crating charges apply (maximum 1500 pounds [680 kg] per crate). Contact Railing Technical Sales for more information at (800) 421-6144 (U.S.), (877) 421-6144 (Canada), or (323) 588-1281 (International). Ask for Ext. 7730. You can also send email to **railings@crlaurence.com**.

Clear Monolithic Tempered

Low Iron Starphire® Monolithic Tempered

USE MONOLITHIC TEMPERED GLASS

- Proudly Produced in the U.S.A.

Standard Edge Work

1/4" (6 MM) THICK CLEAR AND LOW IRON STARPHIRE® TEMPERED GLASS

CAT. NO.	SIZE	DESCRIPTION
MG6CC	Custom Size (Specify)	Clear Tempered
MG6LC	Custom Size (Specify)	Low Iron Starphire® Tempered

Minimum order: 1 each. Boxing and crating charges will apply for all orders.

3/8" (10 MM) THICK CLEAR AND LOW IRON STARPHIRE® TEMPERED GLASS

CAT. NO.	SIZE	DESCRIPTION
MG10CC	Custom Size (Specify)	Clear Tempered
MG10LC	Custom Size (Specify)	Low Iron Starphire® Tempered

Minimum order: 1 each. Boxing and crating charges will apply for all orders.

1/2" (12 MM) THICK CLEAR AND LOW IRON STARPHIRE® TEMPERED GLASS

CAT. NO.	SIZE	DESCRIPTION
MG12CC	Custom Size (Specify)	Clear Tempered
MG12LC	Custom Size (Specify)	Low Iron Starphire® Tempered

Minimum order: 1 each. Boxing and crating charges will apply for all orders.

CRL Laminated Tempered "Rail Glass" for Windscreens

NEW!

- Laminated Clear Tempered and Low Iron Starphire® Glass Types Available
- Flat Polished Edges With CRL's "Precise Edge" Technology
- Custom Sizes, Fabrication, and Edge Work Available

CRL's Laminated "Rail Glass" Panels for windscreen applications meet the test criteria of ANSI Z97.1 and CPSC 16, CFR1201 standards, and are produced with a rigid Ionoplast™ interlayer. Our "Precise Edge" Technology dramatically improves the edge quality of laminated glass and gives each flat polished edge a consistent clean look and feel. Custom sizes, fabrication, and edge work is available. Wood crating charges apply (maximum 1500 pounds [680 kg] per crate). Contact CRL's Railing Technical Sales for more information.

Clear Laminated Tempered

Low Iron Starphire® Laminated Tempered

Precise Edge Technology

9/16" (13.52 MM) THICK CLEAR AND LOW IRON STARPHIRE® LAMINATED TEMPERED GLASS

CAT. NO.	SIZE	DESCRIPTION
LG13CC	Custom Size (Specify)	Laminated Clear Tempered
LG13LC	Custom Size (Specify)	Laminated Low Iron Starphire® Tempered

Minimum order: 1 each. Boxing and crating charges will apply for all orders.

Starphire® is a registered trademark of PPG Industries Ohio, Inc.

USE LAMINATED TEMPERED GLASS

- Proudly Produced in the U.S.A.

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rail-glass | Search
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TOLL Phone: (800) 421-6144
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From Anywhere in the U.S. or Canada

CRL US ALUMINUM

CRL Point Supported Mini Posts

- Frameless 'All-Glass' Look
- For Windscreens, Pool Fencing, and Sound Walls
- 316 Grade Stainless Steel
- Surface Mounted for 1/2" or 9/16" (12 or 13.52 mm) Glass
- Two Standard Stainless Finishes, With Custom Powder Paint Finishes Upon Request

CRL Point Supported Mini Posts are manufactured from 316 grade stainless steel providing superior weather resistance. Designed for windscreen, pool surround, and sound wall applications, they are intended to support 1/2" (12 mm) monolithic tempered glass or 9/16" (13.52 mm) laminated tempered glass. Available in three models, all of which are designed to be surface mounted to a substrate.

NOTE: CRL is an international supplier, and suggests you check local building codes to confirm these Point Supported Mini Posts meet local regulations. Point Supported Mini Posts are not designed for guard rail applications.

NEW!

USE MONOLITHIC TEMPERED GLASS

or

USE LAMINATED TEMPERED GLASS

CRL Point Supported Center and End Mini Posts

- 316 Grade Stainless Steel in Two Architectural Finishes
- For Use With 1/2" (12 mm) Monolithic Tempered Glass and 9/16" (13.52 mm) Laminated Tempered Glass
- Non-Handed

CRL's Point Supported Center and End Mini Posts are designed for use on a wide range of residential and commercial applications. These innovative Mini Posts can be installed on almost any mounting substrate, and meet virtually all safety requirements and building codes. Glass fabrication requires two 3/4" (19 mm) diameter holes per Post. **NOTE**: Anchor bolts sold separately.

16" (406 mm)
8" (203 mm)
5" (127 mm)
1" (25 mm)
Custom Capped Fasteners
End Post

8" (203 mm)
16" (406 mm)
5" (127 mm)
Base Flange Cover Included
1" (25 mm)
Center Post

5" x 5" (127 x 127 mm) Base Plate 3/8" (10 mm) Thick

End Post
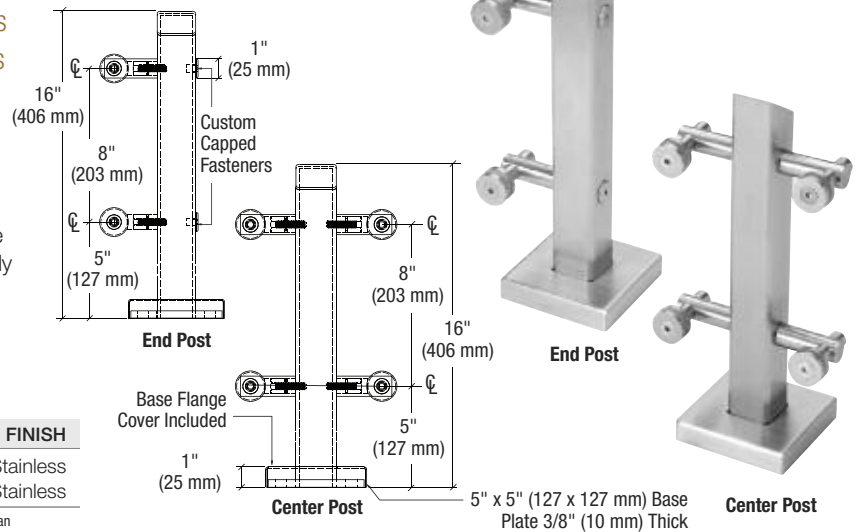
Center Post

END POST	
CAT. NO.	**FINISH**
PWC1EBS	Brushed Stainless
PWC1EPS	Polished Stainless

Minimum order: 1 each. All Mini Posts can be combined for quantity pricing.

CENTER POST	
CAT. NO.	**FINISH**
PWC1CBS	Brushed Stainless
PWC1CPS	Polished Stainless

Minimum order: 1 each. All Mini Posts can be combined for quantity pricing.

CRL Point Supported Mini Post

- 316 Grade Stainless Steel in Two Architectural Finishes
- For Use With 1/2" (12 mm) Monolithic Tempered Glass and 9/16" (13.52 mm) Laminated Tempered Glass

CRL's Point Supported Mini Posts are designed for small windbreaks, pool surrounds, and restaurant sound walls. These Mini Posts can be surface mounted on almost any substrate, and offered in two architectural finishes. Glass fabrication requires two 3/4" (19 mm) diameter holes per Post. **NOTE**: Anchor bolts sold separately.

CAT. NO.	FINISH
PWC2BS	Brushed Stainless
PWC2PS	Polished Stainless

Minimum order: 1 each. All Mini Posts can be combined for quantity pricing.

16" (406 mm)
1" (25 mm)
7" (178 mm)
13" (330 mm)
6" (152 mm)
Base Flange Cover Included
5" x 5" (127 x 127 mm) Base Plate 3/8" (10 mm) Thick

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glass-windscreens Search
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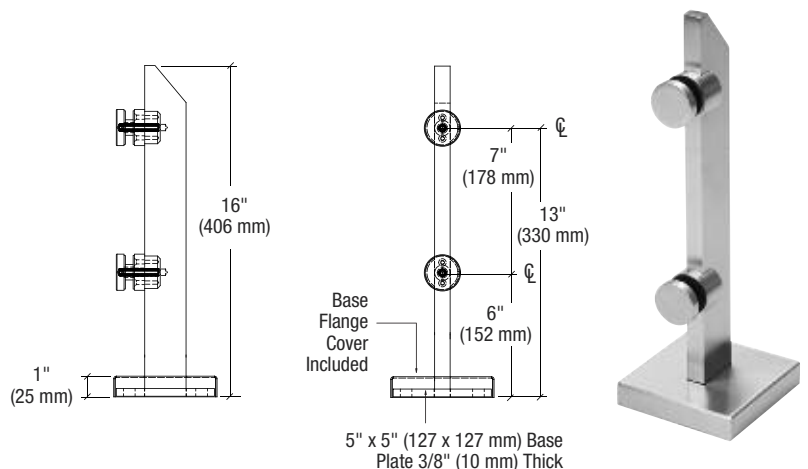
CRL Frameless Windscreen Clamp System

- Gives the 'All-Glass' Frameless Look to Windscreens or Pool Surrounds
- Core-Mounted, Surface-Mounted, or Side-Mounted Styles for 3/8", 1/2", and 9/16" (10, 12, and 13.52 mm) Glass
- 316 Grade Stainless Steel in Two Finishes
- Custom Powder Coated Finishes Also Available

USE MONOLITHIC TEMPERED GLASS

or

USE LAMINATED TEMPERED GLASS
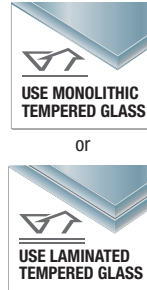
CRL Frameless Windscreen Clamps are typically used to create a tempered glass windscreen or pool surround with minimal distractions from vertical or horizontal frame members. Core mount styles are designed for insertion in core-drilled holes in a concrete deck, which are then filled with expanding cement. There is also a Windscreen Clamp designed to be mounted on the face of a wall or planter box. And now you can select one of our new Surface Mount Models. Custom powder-painted finishes are also available. For glass fabrication guidelines go to **crlaurence.com**.

NOTE: CRL is an international supplier, and suggests you check local building codes to confirm these Frameless Windscreen Clamps meet local regulations. Windscreen Clamps are not designed for guard rail applications.

CRL Beveled One-Piece Surface Mount Frameless Windscreen Clamp

- 316 Grade Stainless Steel in Two Architectural Finishes
- For Use With 3/8" or 1/2" (10 or 12 mm) Tempered Monolithic Glass and 9/16" (13.52 mm) Tempered Laminated Glass

CRL's Beveled One-Piece Surface Mount Windscreen Clamps are designed for use on a wide range of residential and commercial applications, and provide an attractive low maintenance unobstructed view. These innovative Clamps can be installed to almost any mounting substrate, and meet virtually all safety requirements and building codes. Glass fabrication requires two 3/4" (19 mm) diameter holes per Clamp. **NOTE:** Anchor bolts sold separately.

Supplied Complete with Base Flange Cover and Moisture Barrier Gasket

Dimensions shown: 9-11/16" (246 mm), 3-3/8" (85 mm), 1-1/8" (28 mm), 3-1/4" (82 mm), 5-3/16" (132 mm), 1-11/16" (43 mm), Gaskets for 3/8" to 9/16" (10 to 13.52 mm) Glass, 5" x 5" (127 x 127 mm) Base Flange with four Mounting Holes for Floor Anchors, One-Piece Base Flange Cover, 7/16" (11 mm) Diameter Holes
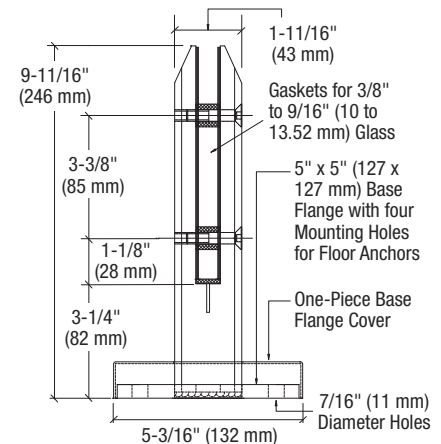
CAT. NO.	FINISH
AFWC1SBS	Brushed Stainless
AFWC1SPS	Polished Stainless

Minimum order: 1 each. All Windscreen Clamps can be combined for quantity pricing.

CRL Round One-Piece Low Profile Surface Mount Frameless Windscreen Clamp

- 316 Grade Stainless Steel in Two Architectural Finishes
- For Use With 3/8" or 1/2" (10 or 12 mm) Tempered Monolithic Glass and 9/16" (13.52 mm) Tempered Laminated Glass

CRL's Round One-Piece Low Profile Surface Mount Windscreen Clamps are designed for small windbreaks, restaurants, and store areas that need counter top mounted glass partitions. These Clamps can be surface mounted to almost any mounting substrate, and are offered in two architectural finishes. Glass fabrication requires two 3/4" (19 mm) diameter holes per Clamp.
NOTE: Anchor bolts sold separately.

Supplied Complete with Base Flange Cover and Moisture Barrier Gasket

Dimensions shown: 7-1/16" (179 mm), 9/32" (7 mm) Diameter Holes, 3-1/2" (89 mm), Gaskets for 3/8" to 9/16" (10 to 13.52 mm) Glass, 2-1/2" (63 mm), 1-1/8" (28 mm), 2-1/4" (57 mm), 1-7/8" (48 mm)
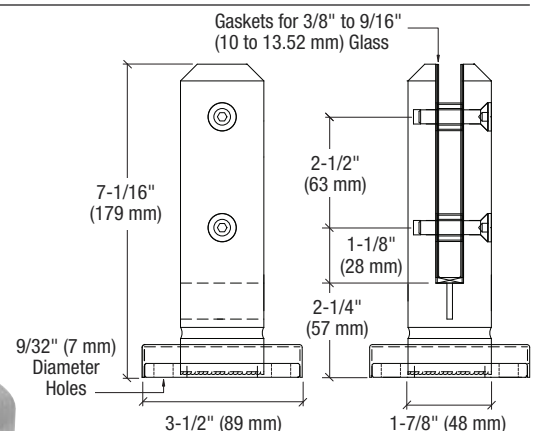
CAT. NO.	FINISH
AFWC4SBS	Brushed Stainless
AFWC4SPS	Polished Stainless

Minimum order: 1 each. All Windscreen Clamps can be combined for quantity pricing.

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CRL US ALUMINUM

CRL Core Mount Friction Fit Frameless Windscreen Clamps

MODEL NEW!

USE MONOLITHIC TEMPERED GLASS

- No Glass Fabrication Required
- 2205 Duplex and 316L Low Carbon Marine Grade Stainless Steel Models Available
- For Use in Core Drilled Concrete Holes
- For 1/2" (12 mm) Monolithic Tempered Glass

CRL Core Mount Friction Fit Windscreen Clamps are designed for insertion in core-drilled holes in a deck or on top of a wall. No glass fabrication is required; the glass is secured by two set screws pushing on a plate. A garnish ring is included to conceal the core hole. To secure the clamp in the hole we suggest you use Kwixset™ Expanding Cement (see page 472B).

3-1/2" (89 mm) Round Flange

3-1/2" (89 mm) Square Flange

3" (76 mm) Diameter Hole in Concrete Required

Round Type   Square Type

1-15/16" (50 mm)
7-7/8"* (200 mm)
6-7/8"** (175 mm)
11"* (280 mm)
10-7/16"** (265 mm)
Round Type

1-15/16" (50 mm)
7-1/16"* (179 mm)
6-7/8"** (175 mm)
11"* (280 mm)
10-7/16"** (265 mm)
Square Type

Embed Portion
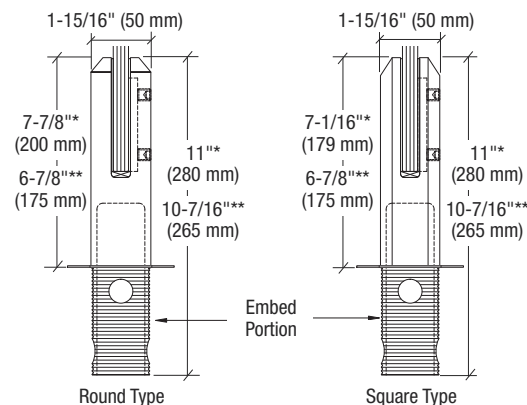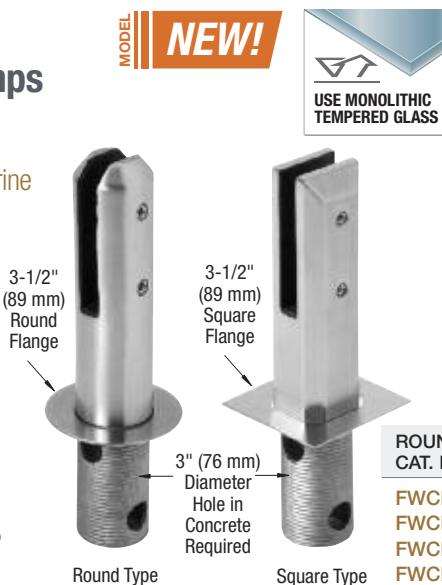
ROUND CAT. NO.	SQUARE CAT. NO.	GRADE	FINISH
FWCR12BS*	FWCS12BS*	2205 Duplex	Brushed Stainless
FWCR12PS*	FWCS12PS*	2205 Duplex	Polished Stainless
FWCR10BS**	FWCS10BS**	316L	Brushed Stainless
FWCR10PS**	FWCS10PS**	316L	Polished Stainless

Minimum order: 1 each. All Windscreen Clamps can be combined for quantity pricing.

CRL Square Surface Mount Friction Fit Frameless Windscreen Clamp

MODEL NEW!

USE MONOLITHIC TEMPERED GLASS

- No Glass Fabrication Required
- 2205 Duplex and 316L Low Carbon Marine Grade Stainless Steel Models Available
- For Use With Surface Mount Applications
- For 1/2" (12 mm) Monolithic Tempered Glass

CRL Surface Mount Friction Fit Windscreen Clamps are designed for mounting to tiles, concrete and wood decking where core drilling is not possible. No glass fabrication is required; the glass is firmly secured by tightening two set screws. A Base Flange Cover is included to conceal the mounting points. **NOTE**: Anchor bolts sold separately.

1-15/16" (50 mm)
6-5/16"* (160 mm)
5-7/8"** (150 mm)
3-15/16"* (100 mm)
4-1/2"** (114 mm)
7/16" (11 mm)* Dia. Holes
3/8" (10 mm)** Dia. Holes
2-3/8"* (60 mm)
2-3/16"** (56 mm)
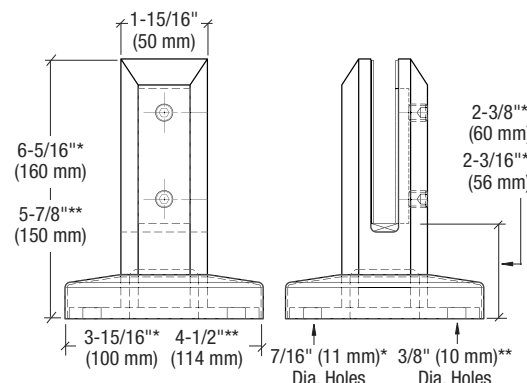
CAT. NO.	GRADE	FINISH
FWCS22BS*	2205 Duplex	Brushed Stainless
FWCS22PS*	2205 Duplex	Polished Stainless
FWCS20BS**	316L	Brushed Stainless
FWCS20PS**	316L	Polished Stainless

Minimum order: 1 each. All Windscreen Clamps can be combined for quantity pricing.

CRL Round Surface Mount Friction Fit Frameless Windscreen Clamp

MODEL NEW!

USE MONOLITHIC TEMPERED GLASS

- No Glass Fabrication Required
- 2205 Duplex and 316L Low Carbon Marine Grade Stainless Steel Models Available
- For Use With Surface Mount Applications
- For 1/2" (12 mm) Monolithic Tempered Glass

CRL Surface Mount Friction Fit Windscreen Clamps are designed for mounting to tiles, concrete and wood decking where core drilling is not possible. No glass fabrication is required; the glass is firmly secured by tightening two set screws. A Base Flange Cover is included to conceal the mounting points. **NOTE**: Anchor bolts sold separately.

2"* (51 mm)
1-7/8"** (48 mm)
6-5/16"* (160 mm)
5-7/8"** (150 mm)
3-15/16"* (100 mm)
4-1/2"** (114 mm)
7/16" (11 mm)* Dia. Holes
3/8" (10 mm)** Dia. Holes
2-3/8"* (60 mm)
2-3/16"** (56 mm)
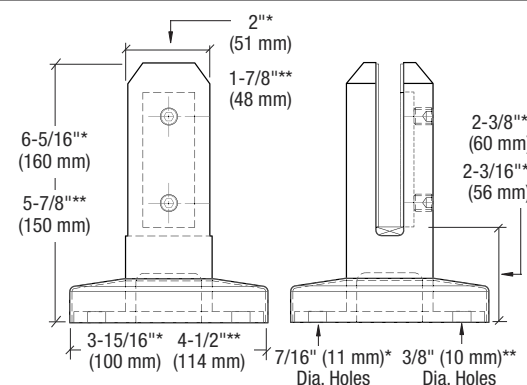
CAT. NO.	GRADE	FINISH
FWCR22BS*	2205 Duplex	Brushed Stainless
FWCR22PS*	2205 Duplex	Polished Stainless
FWCR20BS**	316L	Brushed Stainless
FWCR20PS**	316L	Polished Stainless

Minimum order: 1 each. All Windscreen Clamps can be combined for quantity pricing.

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CRL US ALUMINUM

CRL One-Piece Core Mount Frameless Windscreen Clamp

- 316 Grade Stainless Steel
- 30 mm Rod Easily Inserts Into Core-Drilled Hole
- Designed for 3/8" or 1/2" (10 or 12 mm) Tempered Monolithic Glass and 9/16" (13.52 mm) Tempered Laminated Glass

USE MONOLITHIC TEMPERED GLASS

or

USE LAMINATED TEMPERED GLASS

CRL One-Piece Core Mount Frameless Windscreen Clamps are designed for insertion in core-drilled holes in a deck or on top of a wall. They are supplied with a 30 mm grooved stainless steel rod that fits into the bottom of the Clamp and is secured with set screws for additional support.

All necessary hardware is packaged with the Clamp. Glass fabrication requires two 3/4" (19 mm) diameter holes per Clamp. Instructions and glass fabrication templates are supplied. To secure Clamp in hole we suggest you use Kwixset™ Expanding Cement (see page 472B).

Garnish Rings are available for covering the Clamp's base. Cat. No. AFWC1G fits the AFWC1 Clamp; Cat. No. AFWC6G fits the AFWC6 Clamp (see below).

Gaskets for 3/8" to 9/16" (10 to 13.52 mm) Glass

1-15/16" (50 mm)

9-13/16" (250 mm)

3-3/8" (86 mm)

1-1/8" (28 mm)

3-1/4" (82 mm)

M30 x 1.5 7-3/4" (197 mm) Long Threaded Rod Embed
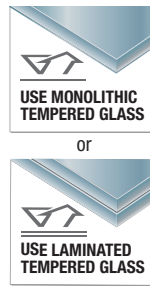
3" (76 mm) Dia. Hole Recommended in Concrete
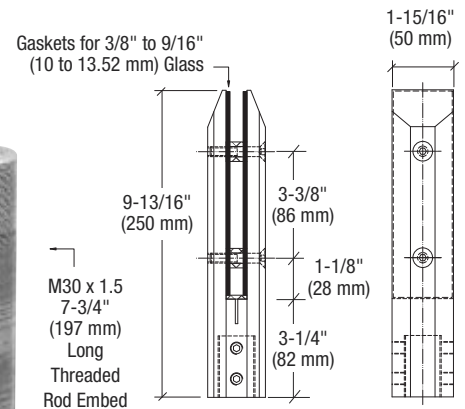
CAT. NO.	FINISH
AFWC1	Brushed Stainless
AFWC6	Polished Stainless

Minimum order: 1 each. All Windscreen Clamps can be combined for quantity pricing.

CRL Three-Piece Core Mount Frameless Windscreen Clamp

- 316 Grade Stainless Steel
- 16 mm Rod Easily Inserts Into Core-Drilled Hole
- Designed for 3/8" or 1/2" (10 or 12 mm) Tempered Monolithic Glass and 9/16" (13.52 mm) Tempered Laminated Glass

USE MONOLITHIC TEMPERED GLASS

or

USE LAMINATED TEMPERED GLASS

CRL Three-Piece Core Mount Frameless Windscreen Clamps are designed for insertion in core-drilled holes in a deck or on top of a wall. They are supplied with a 16 mm threaded rod that screws into the bottom for additional support.

All necessary hardware is packaged with the Clamp. Glass fabrication requires two 3/4" (19 mm) diameter holes per Clamp. Instructions and glass fabrication templates are supplied. To secure Clamp in hole we suggest you use Kwixset™ Expanding Cement (see page 472B).

Garnish Rings are available for covering the Clamp's base. Cat. No. AFWC3G fits the AFWC3 Clamp; Cat. No. AFWC8G fits the AFWC8 Clamp (see below).

Gaskets for 3/8" to 9/16" (10 to 13.52 mm) Glass

1-15/16" (50 mm)

8-1/8" (206 mm)

1-15/16" (49 mm)

1-7/16" (36 mm)

2-7/8" (73 mm)

1-9/16" (40 mm)

M16 x 2.0 7-3/4" (197 mm) Long Threaded Rod Embed
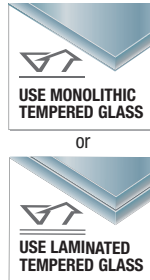
3" (76 mm) Dia. Hole Recommended in Concrete
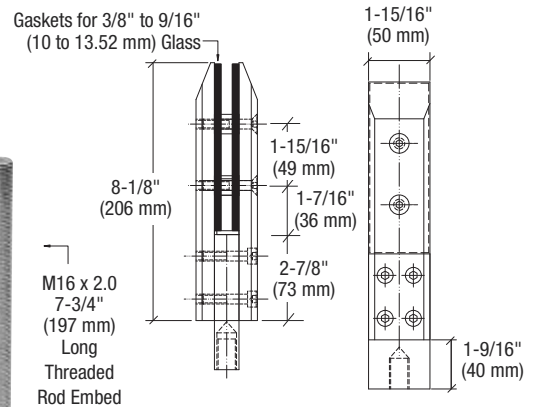
CAT. NO.	FINISH
AFWC3	Brushed Stainless
AFWC8	Polished Stainless

Minimum order: 1 each. All Windscreen Clamps can be combined for quantity pricing.

CRL Garnish Ring for Three-Piece Core Mount Windscreen Clamps

CRL's Garnish Rings add the finishing touch to your installation. These 316 Grade Brushed and Polished Stainless Steel Garnish Rings easily slip over the Frameless Windscreen Clamp, and secure in place with CRL 95CBL Sealant (see page 490B).

CAT. NO.	FITS CLAMP	DIAMETER	FINISH
AFWC3G	AFWC3	4" (102 mm)	Brushed Stainless
AFWC8G	AFWC8	4" (102 mm)	Polished Stainless

Minimum order: 1 each.

CRL Garnish Ring for One-Piece Core Mount Windscreen Clamps

CRL's Garnish Rings add the finishing touch to your installation. These 316 Grade Brushed and Polished Stainless Steel Garnish Rings easily slip over the Frameless Windscreen Clamp, and secure in place with CRL 95CBL Sealant (see page 490B).

CAT. NO.	FITS CLAMP	DIAMETER	FINISH
AFWC1G	AFWC1	4" (102 mm)	Brushed Stainless
AFWC6G	AFWC6	4" (102 mm)	Polished Stainless

Minimum order: 1 each.

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or enter the Catalog Number for complete product information

TOLL Phone: (800) 421-6144
FREE Fax: (800) 262-3299
From Anywhere in the U.S. or Canada

CRL US ALUMINUM

CRL Three-Piece Core Mount Frameless Windscreen Clamp

- Made of Duplex 2205 Grade Brushed Stainless Steel
- Designed for 3/8" or 1/2" (10 or 12 mm) Tempered Monolithic Glass and 9/16" (13.52 mm) Tempered Laminated Glass

USE MONOLITHIC TEMPERED GLASS or **USE LAMINATED TEMPERED GLASS**

Duplex 2205 is a more corrosive-resistant, higher grade of stainless steel than #316. It is ideally suited for areas within 1 mile (1.6 km) of saltwater environments due to higher chromium content in the metal. Glass fabrication requires two 3/4" (19 mm) diameter holes per Clamp. Instructions and glass fabrication templates are supplied. To secure Clamp in hole we suggest you use Kwixset™ Expanding Cement (see page 472B).

M16 x 2.0 x 4" (102 mm) Long Threaded Rod Embed

3" (76 mm) Dia. Hole Recommended in Concrete

Gaskets for 3/8" (10 mm) to 9/16" (13.52 mm) Glass

1-15/16" (50 mm)
1-15/16" (50 mm)
10-3/16" (259 mm)
1-3/4" (45 mm)
4-15/16" (125 mm)
1-9/16" (40 mm)
15/16" (24 mm)
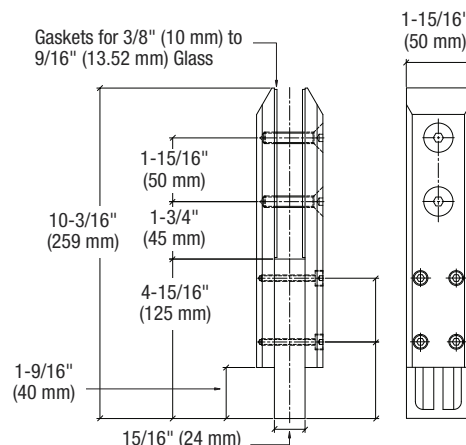
CAT. NO.	FINISH
DFWC3	Brushed Stainless

Minimum order: 1 each. All Windscreen Clamps can be combined for quantity pricing.

CRL Two-Piece Side Mount Frameless Windscreen Clamp

USE MONOLITHIC TEMPERED GLASS or **USE LAMINATED TEMPERED GLASS**

- 316 Grade Stainless Steel in Two Architectural Finishes
- Designed for 3/8" or 1/2" (10 or 12 mm) Tempered Monolithic Glass and 9/16" (13.52 mm) Tempered Laminated Glass

CRL Two-Piece Side Mount Frameless Windscreen Clamps are designed for attachment to the front side of walls or planter boxes. Due to the number of varying mounting conditions, anchors and mounting screws are not supplied. The back plate is fabricated to accept 8 mm (5/16") flat head screws. Glass fabrication requires two 3/4" (19 mm) holes per Clamp. An instruction sheet and glass fabrication template are supplied.

CAT. NO. CAP35S Replacement Bolt

Gaskets for 3/8" to 9/16" (10 to 13.52 mm) Glass

5-5/8" (143 mm)
13/16" (20 mm)
1-15/16" (50 mm)
1-11/16" (42 mm)
1-15/16" (49 mm)
2" (51 mm)
1-1/4" (32 mm)
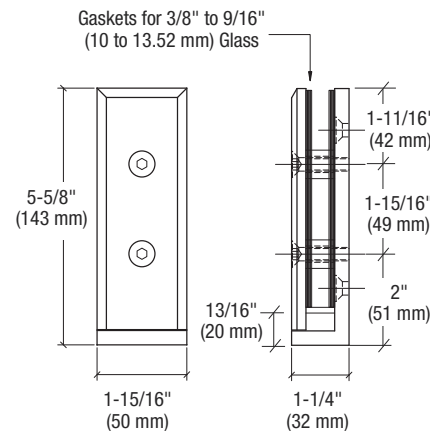
CAT. NO.	FINISH
AFWC2	Brushed Stainless
AFWC7	Polished Stainless

Minimum order: 1 each. All Windscreen Clamps can be combined for quantity pricing.

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CRL US ALUMINUM
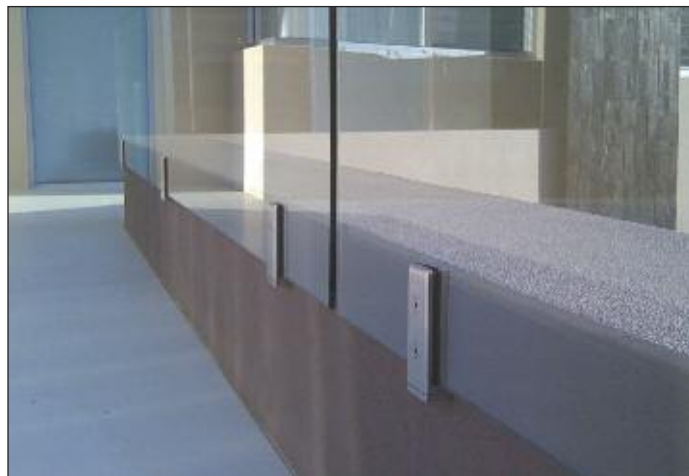
CRL Glass Bracing Clamps

NEW!

- For 3/8" to 1/2" (10 to 12 mm) Thick Tempered Glass
- Made of Duplex 2205 Stainless Steel
- Do Not Require Holes in the Glass
- Perfect for Bracing Glass Windscreens, Sound Walls, and Pool Fencing

USE MONOLITHIC TEMPERED GLASS

CRL Glass Bracing Clamps are designed to provide extra stability and rigidity for glass panels. There is no need for holes in the glass, simply tighten the nylon tipped set screw and you are done. Compatible with both 3/8" and 1/2" (10 and 12 mm) glass, they are perfect for balustrades, pool fencing, shower screens, and anywhere you need support without holes in the glass. Made of Duplex 2205 stainless steel, they feature both excellent strength and superior corrosion resistance. Available in brushed or polished stainless finishes.

CRL Wall Mount Glass Bracing Clamp

- For 3/8" to 1/2" (10 to 12 mm) Thick Tempered Glass

Requires 1/4" (6 mm) Glass Clearance at Wall Conditions

3/16" (5 mm)

2-9/16" (65 mm)

2-9/16" (65 mm)

1" (25 mm)
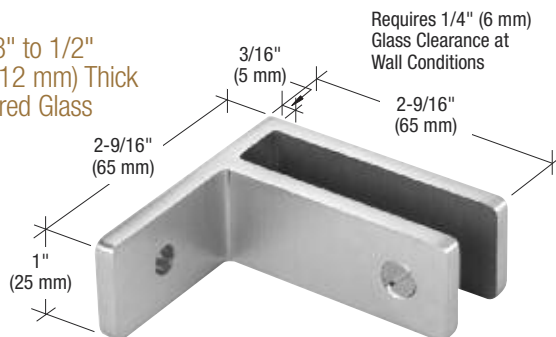
CAT. NO.	GRADE	FINISH
GBCWMBS	2205	Brushed Stainless
GBCWMPS	2205	Polished Stainless

Minimum order: 1 each. All Glass Clamps can be combined for quantity pricing.

CRL 90 Degree Glass-to-Glass Bracing Clamp

- For 3/8" and 1/2" (10 to 12 mm) Thick Tempered Glass

Requires 3/8" (10 mm) Clearance Between Glass Lites at Corner

9/32" (7 mm)

2-5/8" (67 mm)

2-9/16" (65 mm)

1" (25 mm)
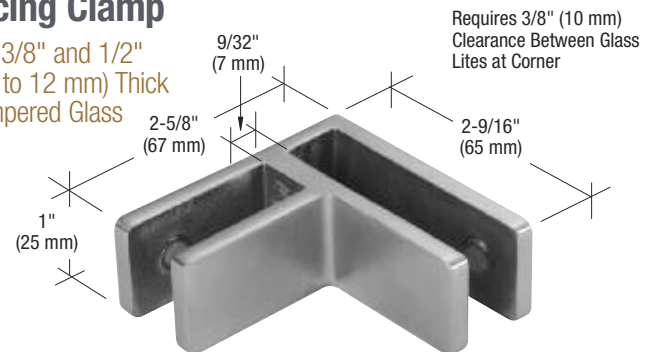
CAT. NO.	GRADE	FINISH
GBC90BS	2205	Brushed Stainless
GBC90PS	2205	Polished Stainless

Minimum order: 1 each. All Glass Clamps can be combined for quantity pricing.

CRL 180 Degree Glass-to-Glass Bracing Clamp

- For 3/8" to 1/2" (10 to 12 mm) Thick Tempered Glass

Requires 3/8" (10 mm) Clearance Between Glass Lites

3-9/16" (90 mm)

1" (25 mm)

9/32" (7 mm)
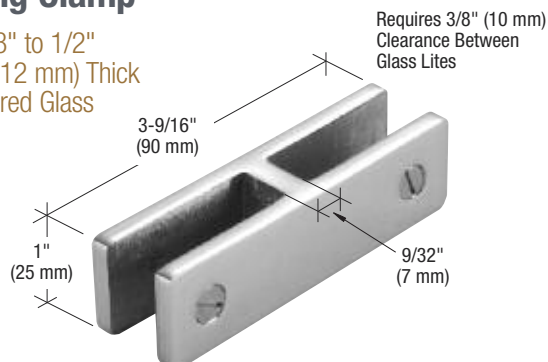
CAT. NO.	GRADE	FINISH
GBC180BS	2205	Brushed Stainless
GBC180PS	2205	Polished Stainless

Minimum order: 1 each. All Glass Clamps can be combined for quantity pricing.

CRL Adjustable Angle Glass-to-Glass Bracing Clamp

- For 3/8" to 1/2" (10 to 12 mm) Thick Tempered Glass

3/4" (19 mm)   13/16" (21 mm)

1" (25 mm)

6-5/16" (160 mm)

Adjustable Angle 90 to 180 Degrees
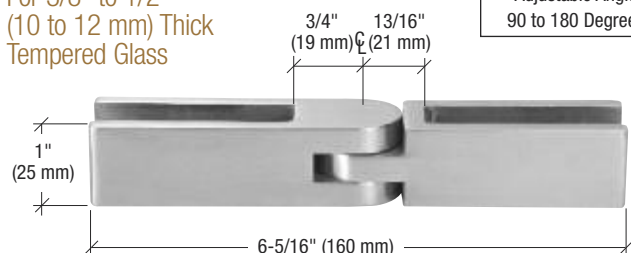
CAT. NO.	GRADE	FINISH
GBCADJBS	2205	Brushed Stainless
GBCADJPS	2205	Polished Stainless

Minimum order: 1 each. All Glass Clamps can be combined for quantity pricing.

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TOLL Phone: (800) 421-6144
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CRL US ALUMINUM

CRL Frameless Windscreen System Using Heavy Aluminum Base Shoe

- Great for Glass Windbreaks, Pool Enclosures, Perimeter Fencing, Sound Barriers, Balconies, and Other Applications That are View-Oriented
- Unique Designs That Allow Completely Unobstructed Views
- Designed and Engineered to Meet the Strictest Codes
- Custom Fabrication is Also Available to Meet Your Specifications
- Cladding Available in Six Architectural Finishes
- Choose Drilled or Undrilled in Two Lengths

A very popular method of constructing attractive windscreens is through the use of Heavy Aluminum Base Shoe to support the glass panels. This gives you the best in unobstructed vision while also providing for a structurally sound barrier that requires no vertical framing members.

CRL offers our Small Profile Windscreen Base Shoe in two sizes, the Standard W5B Series for 3/8 to 1/2" (10 to 12 mm) tempered glass, and the Heavy-Duty W7B Series for 3/4" (19 mm) tempered glass.

The W5B Series can be used with our TAPER-LOC® dry glaze method, while the larger W7B Series is best suited to wet glaze installations. CRL supports both methods with a full complement of tools and supplies required to make a safe and successful installation.

CRL Railing Technical Sales can help you with design and installation assistance, including the selection of proper fasteners for the substrate to which the windscreen will be mounted.
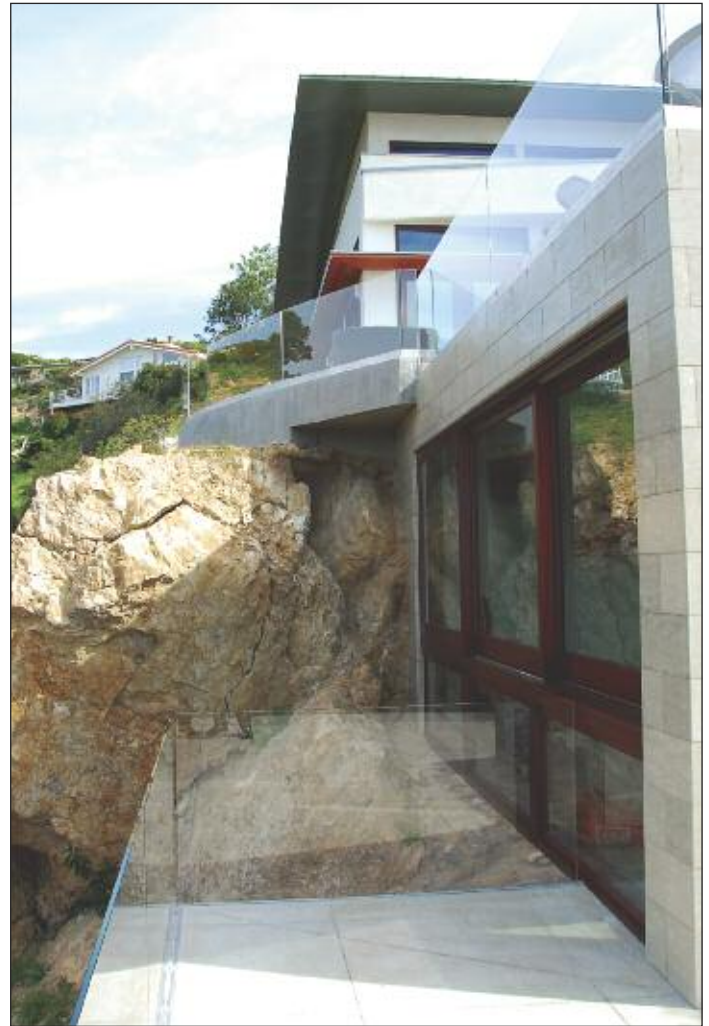
Standard Small Profile Base Shoe for 3/8" or 1/2" (10 or 12 mm) Monolithic Tempered Glass

W5B Series   See page 470B

USE MONOLITHIC TEMPERED GLASS

1-3/8" (35 mm)
49/64" (19 mm)
2-3/4" (70 mm)
1-15/16" (49 mm)
13/16" (21 mm)

Undrilled

1-3/8" (35 mm)
49/64" (19 mm)
1-15/16" (49 mm)
2-3/4" (70 mm)
47/64" (19 mm)
1/4" (6 mm)
13/16" (21 mm)
11/32" (9 mm)

Hole Pattern "D"
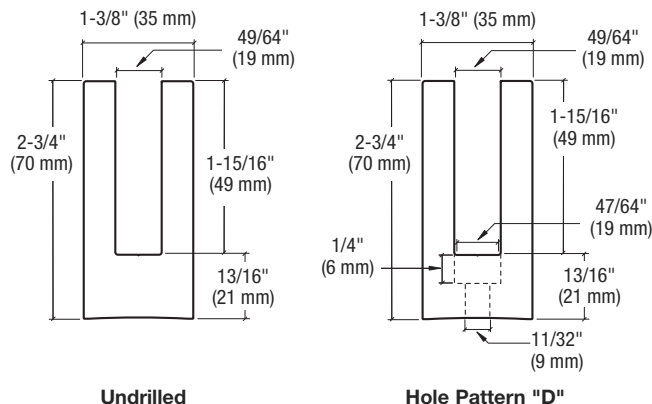
Heavy-Duty Small Profile Base Shoe for 3/4" (19 mm) Monolithic Tempered Glass

W7B Series   See page 471B
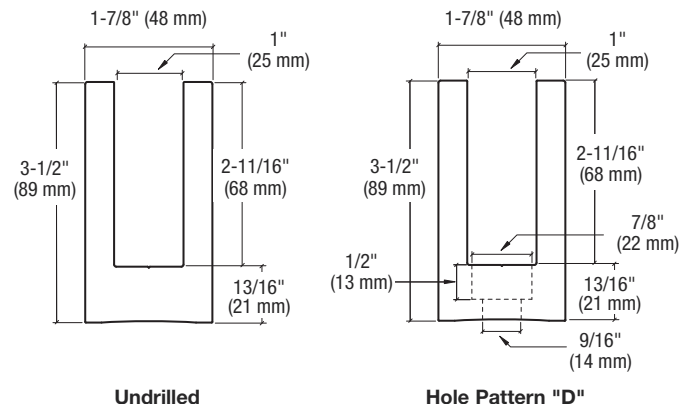
USE MONOLITHIC TEMPERED GLASS

1-7/8" (48 mm)
1" (25 mm)
3-1/2" (89 mm)
2-11/16" (68 mm)
13/16" (21 mm)

Undrilled

1-7/8" (48 mm)
1" (25 mm)
2-11/16" (68 mm)
3-1/2" (89 mm)
7/8" (22 mm)
1/2" (13 mm)
13/16" (21 mm)
9/16" (14 mm)

Hole Pattern "D"

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TOLL FREE Phone: (800) 421-6144
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From Anywhere in the U.S. or Canada

CRL US ALUMINUM

CRL Standard Small Profile Windscreen Base Shoe for 3/8" or 1/2" (10 or 12 mm) Monolithic Tempered Glass

- Drilled and Counter Bored, or We Will Custom Drill to Your Specifications
- 6063 Alloy, T52 Temper

USE MONOLITHIC TEMPERED GLASS

1-3/8" (35 mm)
49/64" (19 mm)
2-3/4" (70 mm)
1-15/16" (49 mm)
13/16" (21 mm)

Undrilled

1-3/8" (35 mm)
49/64" (19 mm)
2-3/4" (70 mm)
1-15/16" (49 mm)
47/64" (19 mm)
1/4" (6 mm)
13/16" (21 mm)
11/32" (9 mm)

Hole Pattern "D"

TL3X10 TAPER-LOC™
Taper Set
(See page 472B)
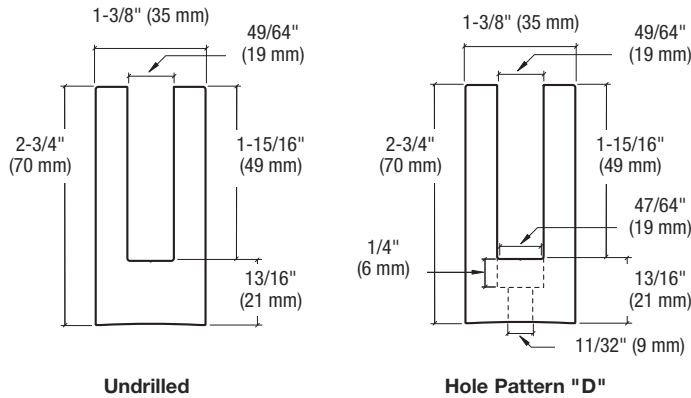
CRL Standard Small Profile Windscreen Base Shoe for 3/8" or 1/2" (10 or 12 mm) tempered glass is typically used as the base channel for windscreens and privacy partitions. It is not recommended for Hand Rail/Guard Rail applications. Most standard glass windscreen applications use 3/8" (10 mm) monolithic tempered glass. Each glass panel is secured in the base shoe using CRL's Patented Dry Glazed TAPER-LOC® System (see page 472B). **NOTE:** If 1/2" (12 mm) glass is required, use CRL's Wet Glaze Method (see pages 128B-133B). Use CRL Cat. No. 95CBL Silicone (see page 490B) to seal the top edge of the Base Shoe.

CAT. NO.	STOCK LENGTH	HOLE SIZE	COUNTER BORE X DEPTH	CENTER-TO-CENTER	WEIGHT
W5B10D	120" (3.05 m)	11/32" (9 mm)	47/64" x 1/4" (19 x 6 mm)	12" (305 mm)	28 Lbs. (13 kg)
W5B20D	240" (6.10 m)	11/32" (9 mm)	47/64" x 1/4" (19 x 6 mm)	12" (305 mm)	55 Lbs. (25 kg)
W5B10	120" (3.05 m)	----	Extrusion Only (Without Holes)	----	28 Lbs. (13 kg)
W5B20	240" (6.10 m)	----	Extrusion Only (Without Holes)	----	55 Lbs. (25 kg)

Minimum order: 1 each. All Base Shoe can be combined for quantity pricing. Must ship common carrier.

CRL Straight Cladding for Standard Windscreen Base Shoe

- Six Architectural Finishes
- 12" Mitered Corner Cladding Available
- Custom Cutting and Mitering Also Available

CRL U.S. ALUMINUM MANUFACTURED IN THE USA

CRL Cladding is available in six architectural finishes. It can be secured to the Base Shoe using CRL AT234 Cladding Tape and 95CBL Silicone Sealant (see page 177B). **NOTE:** Sold by individual pieces. Base Shoe requires two pieces for coverage on both sides. For Mitered Corner Cladding go to **crlaurence.com/glass-windscreens**.

CAT. NO.	GRADE/ALLOY	GA./THK.	STOCK LENGTH	FINISH
BWCBS10	304	20/.035"	120" (3.05 m)	Brushed Stainless
BWCPS10	304	20/.035"	120" (3.05 m)	Polished Stainless
BWCPB10	C260	.045"	120" (3.05 m)	Polished Brass
BWCSB10	C260	.045"	120" (3.05 m)	Satin Brass
BWCSA10	5052	.050"	120" (3.05 m)	Satin Anodized
BWCDU10	5052	.050	120" (3.05 m)	Dark Bronze Anodized

Minimum order: 1 each. Must ship common carrier. All finishes can be combined for quantity pricing.
NOTE: Cladding in lengths up to 168" (4.27 m) can be fabricated on special order.

CRL End Caps for Standard Windscreen Base Shoe

- Six Finishes to Match Straight Cladding
- Adhere With Cladding Tape and/or Silicone Sealant

CRL U.S. ALUMINUM MANUFACTURED IN THE USA

CRL End Caps are available in six architectural finishes. They can be secured to the Base Shoe using CRL AT234 Cladding Tape and 95CBL Silicone Sealant. See page 177B for attachment instructions.

CAT. NO.	GRADE/ALLOY	GA./THK.	FINISH
B5WECBS	304	20/.035"	Brushed Stainless
B5WECPS	304	20/.035"	Polished Stainless
B5WECPB	C260	.045"	Polished Brass
B5WECSB	C260	.045"	Satin Brass
B5WECSA	5052	.050"	Satin Anodized
B5WECDU	5052	.050"	Dark Bronze Anodized

Minimum order: 1 each. All finishes can be combined for quantity pricing.

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TOLL Phone: (800) 421-6144
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CRL U.S. ALUMINUM®

CRL Heavy-Duty Small Profile Windscreen Base Shoe for 3/4" (19 mm) Monolithic Tempered Glass

• 6063 Alloy, T52 Temper

USE MONOLITHIC TEMPERED GLASS

- Ideal for Windscreens and Privacy Partitions
- Designed for Wet Glaze Method Only (Not for Use With TAPER-LOC®)

WET GLAZE ONLY

Undrilled
1-7/8" (48 mm)
1" (25 mm)
3-1/2" (89 mm)
2-11/16" (68 mm)
13/16" (21 mm)

Hole Pattern "D"
1-7/8" (48 mm)
1" (25 mm)
3-1/2" (89 mm)
2-11/16" (68 mm)
7/8" (22 mm)
1/2" (13 mm)
13/16" (21 mm)
9/16" (14 mm)
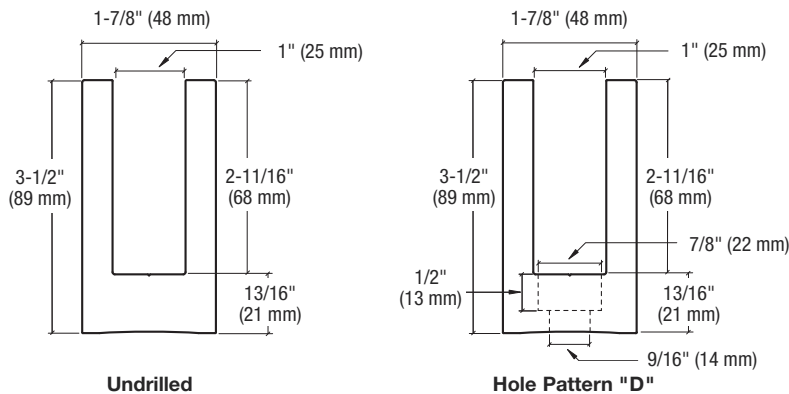
CRL Heavy-Duty Small Profile Windscreen Base Shoe for 3/4" (19 mm) tempered glass is commonly used as the base channel for windscreens and privacy partitions. Each glass panel is secured in the base shoe using CRL's Wet Glaze Method (see pages 128B-133B). Extruded aluminum Heavy-Duty Small Profile Base Shoe can be clad in six different architectural finishes (see below). **NOTE:** The most important part of the Base Shoe installation is being sure that it is attached firmly with approved fasteners to a secure substrate. Contact CRL Railing Technical Sales if you need assistance with fastener selection.

CAT. NO.	STOCK LENGTH	HOLE SIZE	COUNTER BORE X DEPTH	CENTER-TO-CENTER	WEIGHT
W7B10D	120" (3.05 m)	9/16" (14 mm)	7/8" x 1/2" (22 x 13 mm)	12" (305 mm)	34 Lbs. (15 kg)
W7B20D	240" (6.10 m)	9/16" (14 mm)	7/8" x 1/2" (22 x 13 mm)	12" (305 mm)	68 Lbs. (31 kg)
W7B10	120" (3.05 m)	-	Extrusion Only (Without Holes)	----	34 Lbs. (15 kg)
W7B20	240" (6.10 m)	-	Extrusion Only (Without Holes)	----	68 Lbs. (31 kg)

Minimum order: 1 each. All Base Shoe can be combined for quantity pricing. Must ship common carrier.

CRL Straight Cladding for Heavy-Duty Windscreen Base Shoe

- 12" Mitered Corner Cladding Available
- Six Architectural Finishes
- Custom Cutting and Mitering Also Available

CRL Cladding is available in six architectural finishes. It can be secured to the Base Shoe using CRL AT234 Cladding Tape and 95CBL Silicone Sealant (see page 177B). **NOTE:** Sold by individual pieces. Base Shoe requires two pieces for coverage on both sides. For Mitered Corner Cladding go to **crlaurence.com/glass-windscreens**.

CAT. NO.	GRADE/ALLOY	GA./THK.	STOCK LENGTH	FINISH
B7WCBS10	304	20/.035"	120" (3.05 m)	Brushed Stainless
B7WCPS10	304	20/.035"	120" (3.05 m)	Polished Stainless
B7WCPB10	C260	.045"	120" (3.05 m)	Polished Brass
B7WCSB10	C260	.045"	120" (3.05 m)	Satin Brass
B7WCSA10	5052	.050"	120" (3.05 m)	Satin Anodized
B7WCDU10	5052	.050	120" (3.05 m)	Dark Bronze Anodized

Minimum order: 1 each. Must ship common carrier. All finishes can be combined for quantity pricing.
NOTE: Cladding in lengths up to 168" (4.27 m) can be fabricated on special order.

CRL End Caps for Heavy-Duty Windscreen Base Shoe

- Six Finishes to Match Straight Cladding
- Adhere With Cladding Tape and/or Silicone Sealant

CRL End Caps are available in six architectural finishes. They can be secured to the Base Shoe using CRL AT234 Cladding Tape and 95CBL Silicone Sealant. See page 177B for attachment instructions.

CAT. NO.	GRADE/ALLOY	GA./THK.	FINISH
B7WECBS	304	20/.035"	Brushed Stainless
B7WECPS	304	20/.035"	Polished Stainless
B7WECPB	C260	.045"	Polished Brass
B7WECSB	C260	.045"	Satin Brass
B7WECSA	5052	.050"	Satin Anodized
B7WECDU	5052	.050"	Dark Bronze Anodized

Minimum order: 1 each. All finishes can be combined for quantity pricing.

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TOLL Phone: (800) 421-6144
FREE Fax: (800) 262-3299
From Anywhere in the U.S. or Canada

CRL US ALUMINUM

CRL TAPER-LOC® Tapers for 3/8" (10 mm) Monolithic Tempered Glass

- Works With W5B Standard Windscreen Base Shoe
- Supports All Mounting Methods With Our TLK12 Installation/Removal Tool
- Installs From the Floor Side of the Installation
- Eliminates the Use of Messy Cement

USE MONOLITHIC TEMPERED GLASS

TAPER-LOC X
DRY GLAZE RAILING SYSTEM

U.S. Patents 8,122,654 and 8,201,366.
Commonwealth of Australia
Patents 2008207524 and 2012202256

PANEL WIDTH	SUGGESTED TAPER-LOC® TAPER SETS PER PANEL
6" to 14" (152 to 356 mm)	1 Set
14" to 28" (356 to 711 mm)	2 Sets
28" to 42" (711 to 1067 mm)	3 Sets
42" to 56" (1067 to 1422 mm)	4 Sets

CAT. NO. TL3X10
TAPER-LOC® Tapers

CRL's TAPER-LOC® Taper Set for 3/8" (10 mm) monolithic tempered glass is made up of two Tapers and one L-Pressure Block. Tapers are made of a high strength engineering grade polymer. They expand in thickness when compressed together with the Cat. No. TLK12 Installation/Removal Tool (see below), mechanically locking the glass panel into the base shoe. Minimum order is ten Taper Sets.

CRL TAPER-LOC® Installation/Removal Tool Kit for Glass Railing and Windscreen Systems

- Works With All of CRL's TAPER-LOC® Tapers and Components
- Features Integrated Torque Wrench Designed for Precise Lock-Up Force
- Supports All Mounting Methods
- Reduces Installation Time by 50%

CRL U.S. ALUMINUM. MANUFACTURED IN THE USA

TAPER-LOC X
DRY GLAZE RAILING SYSTEM

U.S. Patents 8,122,654 and 8,201,366.
Commonwealth of Australia
Patents 2008207524 and 2012202256

VIDEO ▶

CAT. NO. TLK12
Installation/Removal
Tool Kit

This Installation/Removal Tool is used for tightening TAPER-LOC® Tapers in the channel of the base shoe. It has an Integrated Torque Wrench that applies the precise lock-up force necessary to set the glass panels. Simply set in place and turn the wrench until a clicking sound is heard. This assures the Tapers have been locked together. It can also remove all models of TAPER-LOC® Tapers when glass panels need to be reset or replaced. You can also use the Tool for base shoe that has been recessed into the floor by switching the standard Compression Blades (blue) with the longer Recessed Blades (red), both included. The yellow blades and pusher plate is for monolithic windscreen installations. The Tool Kit comes with the Integrated Torque Wrench, a Glass Railing Setting Tool for Monolithic Glass, a Laminated Glass Setting Tool, a pair of Glass Setting Roller Blocks, three sets of color-coded Blades (yellow, red, and blue), matching Pusher Plates, and Instructions, all in a Molded Carrying Case. Minimum order is one each.

Installation Products for Windscreen Base Shoe

CRL Kwixset™ Expanding Cement

SPEC. DATA ONLINE

SDS ONLINE

- For Exterior or Interior Applications
- Fast Setting, Will Not Shrink or Crack When Used as Directed
- Produces Unexcelled Strength and Bonding Qualities

CAT. NO.	NET WEIGHT
KWX25	25 Pounds (11.3 kg)
KWX50	50 Pounds (22.7 kg)

Minimum order: 1 each. **NOTE:** Kwixset™ can be used in temperatures as low as 40ºF (4ºC).

See page 132B for more information

CRL Cladding Tape

SPEC. DATA ONLINE

SDS ONLINE

- Pressure Sensitive High-Strength Adhesive With Tenacious Holding Power
- Used for Adhering Cladding and End Caps to Base Shoe

Our AT234 Cladding Tape is used to adhere Cladding and End Caps to Base Shoe. Made of a high strength gray acrylic foam with a high tack adhesive.
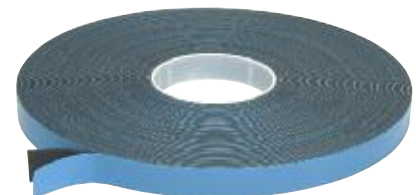
CAT. NO.	THICKNESS	WIDTH	ROLL LENGTH
AT234	.045" (1.1 mm)	3/4" (19 mm)	108' (33 m)

Minimum order: 1 roll.

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472B

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CRL U.S. ALUMINUM

CRL TAPER-LOC® Dry Glaze Base Shoe Alignment System

TAPER-LOC X
DRY GLAZE RAILING SYSTEM

Seven Easy Steps to Accurate Alignment

- Accurately Aligns Base Shoe to Ensure Glass Panels Will Be Within 1/32" (.8 mm) of Plumb When Installed

The CRL TAPER-LOC® Dry Glaze Base Shoe Alignment System gives the installer the ability to accurately shim and install the Base Shoe easily and quickly. Proper Base Shoe alignment is a key element to the TAPER-LOC® System.

Step 1:
Align the "PAL" Tool with Base Shoe and point toward the Laser Target set at other end of Base Shoe to follow the grade.

Step 2:
Use the "PAL" Tool to ensure the Base Shoe is vertically plumb at all points.

Step 3:
Slide Shim Strips under Base Shoe to fill gaps before fastening.

Step 4:
Adhere the L-Setting Blocks to the bottom of the glass panel.

Step 5:
Insert the Taper set half way down into the Base Shoe as shown, opposite the L-Setting Block, and then squeeze the Tapers together finger tight.

Step 6:
Place the Installation/ Removal Tool into position onto the Tapers and push them down into the Base Shoe.

Step 7:
Crank the Torque Wrench until the wrench clicks and breaks for a few degrees, letting you know the Tapers are locked to the correct measured torque.

CRL PAL Plumb/Angle/Level Locator Kit

- Plumb and Level All Your TAPER-LOC® Dry Glaze Railing Installs
- Works With All CRL Guard Rail and Windscreen Base Shoes
- Electronic Angle Finder for Custom Corners and Stairway Applications

This CRL PAL Plumb/Angle/Level Locator Kit was designed to assist you with level and plumb installations of all CRL railing Base Shoes. This innovative tool levels the shoe in both the vertical and horizontal orientations. Each Kit includes: a Laser Tool with Case, a Base Shoe Alignment Adapter, a Laser Target, a Chalk Wheel, a Bottle of Blue Chalk Refill, a Black Listo® Marking Pencil, a Blue Sharpie® Pen, and instructions, all in a Molded Carrying Case.

CAT. NO. PAL1K

CRL PAL Plumb/Angle/Level Locator Laser Tool

- Use for Setting Aluminum Base Shoe Prior to Installing TAPER-LOC® Dry Glaze System
- Angle Measurements in Degrees
- Displays Angle and Inclination Simultaneously

This CRL PAL Plumb/Angle/Level Locator Laser Tool displays angle measurements in degrees. Both the angle and inclination measurements are displayed simultaneously.
Includes: Laser Tool, Three "AA" Batteries and Carrying Case.

CAT. NO. 406065

Listo is a registered trademark of Listo Pencil Corporation.
Sharpie is a registered trademark of Sanford, L.P.

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CRL US ALUMINUM

CRL AWS Aluminum Windscreen Systems

USE MONOLITHIC TEMPERED GLASS

U.S. Patent No. 7,730,677

U.S. ALUMINUM
MANUFACTURED IN THE USA

- Accepts 1/4" to 1/2" (6 to 12 mm) Thick Glass for the Creation of Attractive and Functional Glass Barriers

The AWS Aluminum Windscreen System was developed to provide an attractive, low maintenance glass wall that will enhance any residential or commercial application. All AWS Systems can be used in conjunction with a concrete slab, block wall or individual footings. If our stock components do not fit your application, allow us to design a system that can. CRL has the ability to design, engineer and fabricate a custom system that will satisfy not only your need for safety and security, but also your artistic tastes.

The Homeowner will love the clean look of this wall and the virtually unobstructed view it provides. AWS is superbly suited as a sound wall along busy streets and highways. Our system provides a much higher sound transmission rating than conventional fencing. AWS is low maintenance. All components are specially coated to prevent corrosion and ensure that the homeowner will be satisfied for many years. AWS adapts to a wide variety of terrain and wall designs. It can easily handle slopes, steps, and curves. In addition, the system is ideal for pool areas, decks and balcony applications.

Available Post Configurations

2" x 2-5/8" (51 x 67 mm) Rectangular Aluminum Windscreen Post Profiles
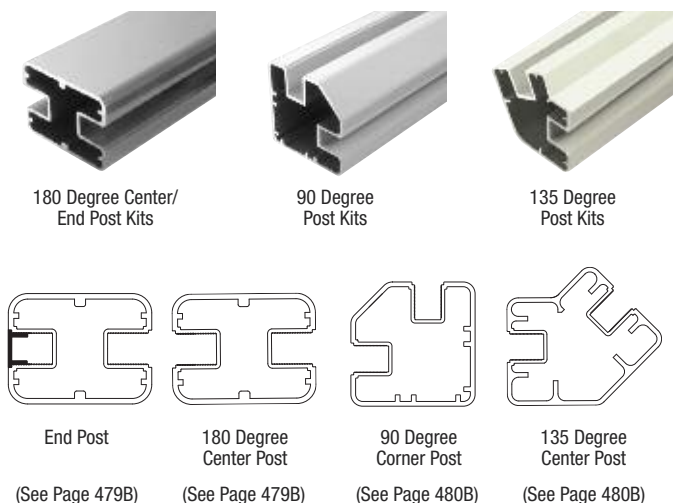
180 Degree Center/End Post Kits

90 Degree Post Kits

135 Degree Post Kits

End Post
(See Page 479B)

180 Degree Center Post
(See Page 479B)

90 Degree Corner Post
(See Page 480B)

135 Degree Center Post
(See Page 480B)

3" (76 mm) Round Aluminum Windscreen Post Profiles

180 Degree Center/End Post Kits

90 Degree Post Kits

135 Degree Post Kits

End Post
(See Page 481B)

180 Degree Center Post
(See Page 481B)

90 Degree Corner Post
(See Page 482B)

135 Degree Center Post
(See Page 482B)
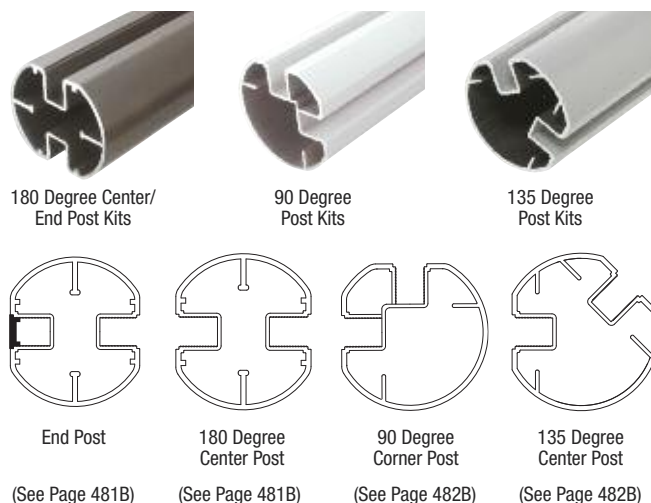
- Ready to Install
- Low Maintenance With Special Coating to Prevent Corrosion
- Seven Stock Colors, Plus Mill Aluminum
- Custom Colors Also Available

MODEL **NEW!**
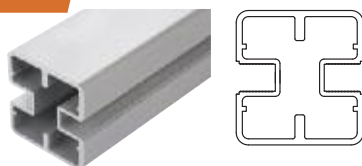
2-5/8" x 2-3/4" (60 x 70 mm)
Heavy-Duty 180 Degree Center Posts and End Posts
(See Page 488B)

STANDARD COLORS

Sky White Gloss	Oyster White Gloss	Agate Gray Gloss	Beige Gray Gloss	Black Matte	Bronze Matte	Silver Metallic

Colors shown are representative only, and may vary slightly from actual gloss, color, and texture. If color match is critical, please contact Technical Sales for additional information.

Additional Color Options - CRL has over 250 quick turn custom color options with the ability to color match as well.

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TOLL Phone: (800) 421-6144
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CRL US ALUMINUM

CRL AWS Aluminum Windscreen Systems

• Available in 3" (76 mm) Round, 2" x 2-5/8" (52 x 67 mm)
Rectangular, and 4" (102 mm) Square Post Styles

CRL U.S. ALUMINUM
MANUFACTURED IN THE USA

U.S. Patent
No. 7,730,677

USE MONOLITHIC TEMPERED GLASS

Unlike other glass wind wall systems, the AWS Aluminum Windscreen System keeps all aluminum out of contact with concrete. The lime in concrete is very corrosive to aluminum, and over time will degrade the physical properties of the components. The AWS System utilizes a painted steel embedment that supports the vertical post and eliminates the possibility of damaging corrosion.

An added benefit of the steel embed is that the contractor can install the steel components early in the construction process, then install the painted aluminum post later when the chances of damage by other tradesmen are greatly reduced. These are strong attributes of the AWS System, and have a real value to the builder and homeowner.

Another benefit of the AWS System is the fact that it was designed to be a wind wall system that is very aesthetically pleasing. Because of this improved design and the interaction with the steel insert, AWS has enhanced structural properties. Our system allows for increased height and span abilities.

The AWS design also solved the problem of glazing vinyl shrinking and falling out over time, creating liabilities for all parties involved. The AWS glazing channel is a one-piece co-extrusion that cannot fall out once the glass is installed. This glazing channel is faster and easier to install than typical glazing beads, and simplifies the glass installation.

TYPICAL MOUNTING OPTIONS

Core Mounted Installation for a Concrete Slab

Aluminum Windscreen Post

Steel Stanchion

Concrete

2-1/2" (64 mm) or 3" (76 mm) Core Drilled Hole in Slab

1-1/2" (38 mm)

Steel Stanchion 4" (102 mm) to 6" (152 mm) Minimum Embedment in Slab

Concrete

2-1/2" (64 mm) or 3" (76 mm) Core Drilled Hole with Expanding Cement to Set Post
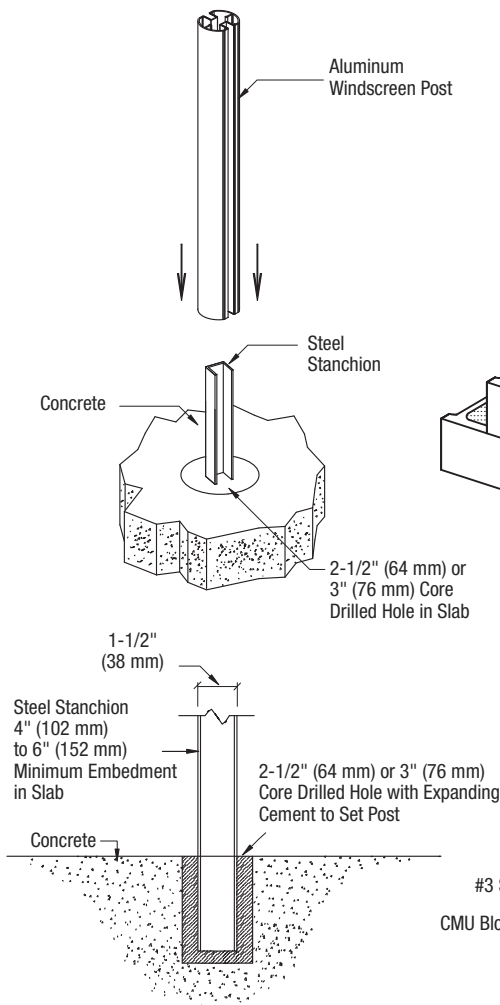
Core Mounted Installation for CMU Block Walls

Aluminum Windscreen Post

Steel Stanchion

Concrete

CMU Wall

1-1/2" (38 mm)

Steel Stanchion @ Center of Cell 15" (381 mm) Minimum Embedment

Solid Cell Grout

#3 Steel Bar

CMU Block Wall

1/4" (6 mm) Joint
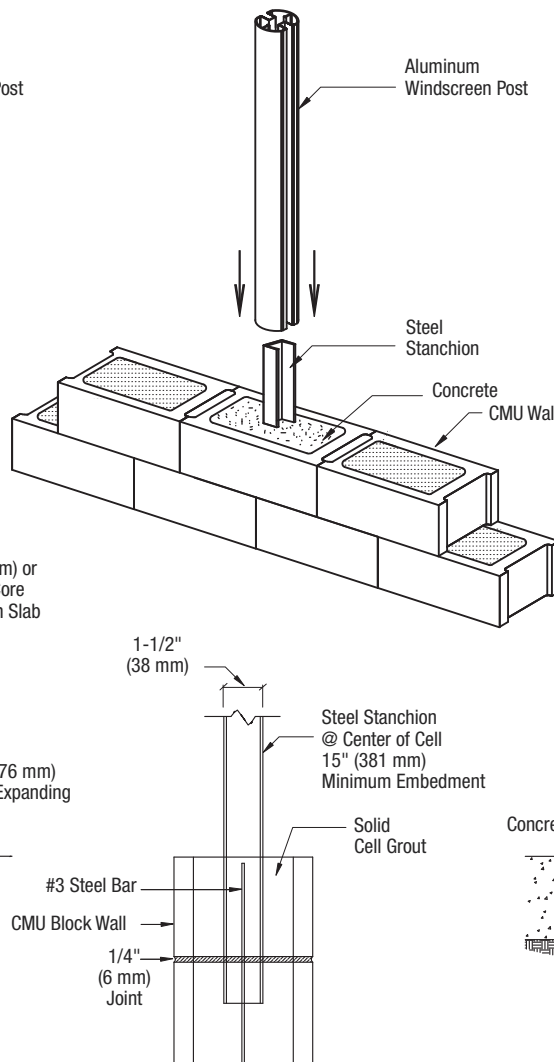
Surface Mounted Installation for a Concrete Slab
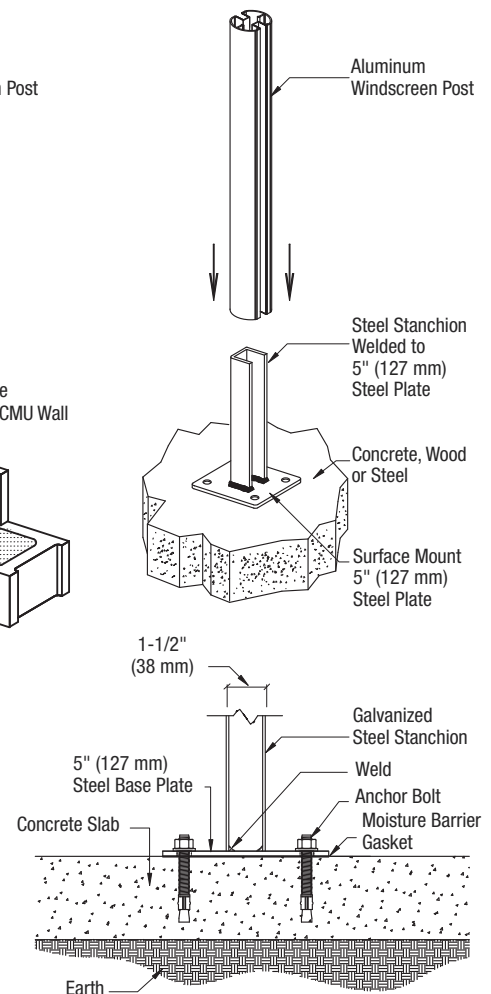
Aluminum Windscreen Post

Steel Stanchion Welded to 5" (127 mm) Steel Plate

Concrete, Wood or Steel

Surface Mount 5" (127 mm) Steel Plate

1-1/2" (38 mm)

Galvanized Steel Stanchion

Weld

Anchor Bolt

Moisture Barrier Gasket

5" (127 mm) Steel Base Plate

Concrete Slab

Earth

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CRL U.S. ALUMINUM

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System: Custom AWS Rectangular Windscreen Core Mounted With Top and Bottom Rails

System: AWS Rectangular Aluminum Windscreen Fascia Mounted with 3/8" (10 mm) Glass and Bottom Rails

System: AWS Rectangular Aluminum Windscreen Surface Mounted with 3/8" (10 mm) Glass and AWS Double Gate

System: AWS Rectangular Aluminum Windscreen Surface Mounted with 3/8" (10 mm) Glass and Bottom Rails
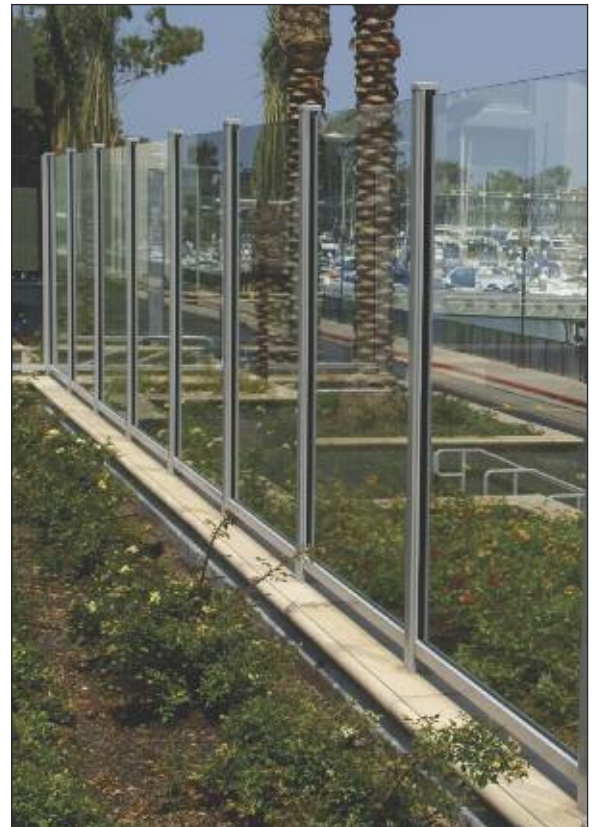
System: AWS Rectangular Aluminum Windscreen Core Mounted with 3/8" (10 mm) Glass and Bottom Rails

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CRL US ALUMINUM

CRL AWS Rectangular Aluminum Windscreen System

- 2" x 2-5/8" (51 x 67 mm) Rectangular Aluminum Windscreen System
- Designed and Engineered to Meet or Exceed Building Codes
- Great for Pools, Balconies, Fencing, Steps, Slopes, and Many Other Options
- Adapts Easily to a Wide Variety of Terrain and Wall Designs
- Provides a Virtually Unobstructed View
- Will Accommodate 1/4" (6 mm), 3/8" (10 mm), and 1/2" (12 mm) Wet Set Glazing
- Standard Heights in Stock With Custom Heights Also Available

Post Cap

1/4" to 1/2" (6 to 12 mm) Tempered Glass

Bottom Rail (Optional)

72" (1829 mm) Maximum Post Spacing

2" x 2-5/8" (51 x 67 mm) Post with Vinyl

1/4" to 1/2" (6 to 12 mm) Tempered Glass

Bottom Rail (Optional)
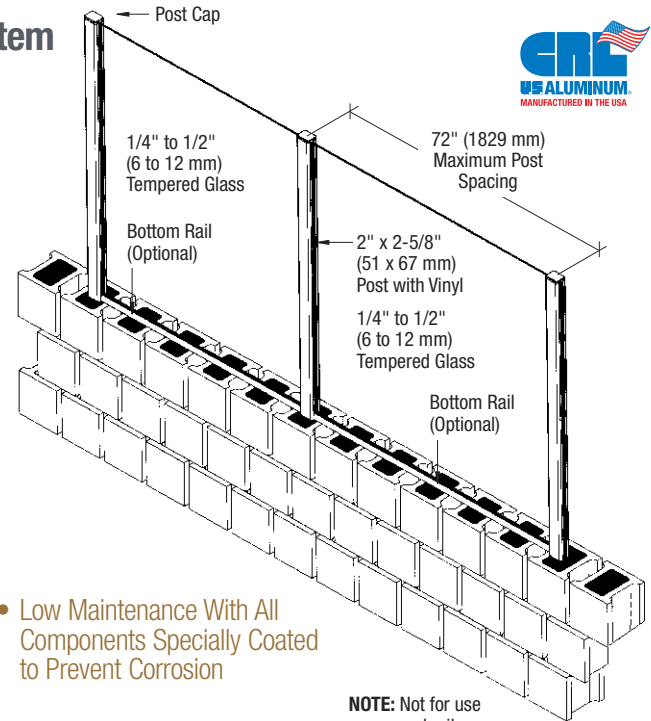
- Low Maintenance With All Components Specially Coated to Prevent Corrosion

NOTE: Not for use as a guard rail.

CRL AWS Rectangular 180 Degree Center or End Posts and Post Kits

- Available as Posts Only or in Kits Containing Post, Top Cap, and Vinyl
- Seven Standard Colors, Plus Mill Aluminum
- Custom Colors Available Upon Request
- Accommodates 1/4" to 3/8" (6 to 10 mm) Glass Dry Glazed With Vinyl
- Accommodates 1/2" (12 mm) Glass Wet Glazed

U.S. Patent No. 7,730,677

USE MONOLITHIC TEMPERED GLASS

Center/End Post

Kits can be used to fabricate posts used at the end of a barrier, or to join two panels at 180 degrees. They can accommodate 1/4" to 3/8" (6 to 10 mm) panels when dry glazed with vinyl, and 1/2" (12 mm) panels when wet glazed. They are available in seven standard colors, plus mill aluminum, with custom colors available on request. **NOTE:** Maximum post spacing is 72" (1829 mm) on center. Maximum square footage should not exceed 24 square feet per panel.

Standard Center Kits Include:

Standard End Kits Include:

End Post Filler (Kits Only)

Glazing Vinyl (Kits Only)

2-5/8" (67 mm)

9/16" (14 mm) Pocket Width

2" (51 mm)

13/16" (21 mm)

STANDARD COLORS

| Sky White Gloss | Oyster White Gloss | Agate Gray Gloss | Beige Gray Gloss | Black Matte | Bronze Matte | Silver Metallic |

Additional Color Options - CRL has over 250 quick turn custom color options with the ability to color match as well.

Colors shown are representative only, and may vary slightly from actual gloss, color, and texture. If color match is critical, please contact Technical Sales for additional information.

RECTANGULAR CENTER/END POST ONLY

CAT. NO.*	HEIGHT/LENGTH
SP36	36" (914 mm)
SP48	48" (1219 mm)
SP60	60" (1524 mm)
SP72	72" (1829 mm)
SP194	241" (6.12 m)#

Minimum order: 1 each. * Specify color when ordering. # Must ship common carrier. End Post Filler Inserts sold separately, see page 486B.

RECTANGULAR CENTER POST KITS

CAT. NO.*	HEIGHT
S36CK	36" (914 mm)
S48CK	48" (1219 mm)
S60CK	60" (1524 mm)
S72CK	72" (1829 mm)

Minimum order: 1 each. * Specify color when ordering. Includes 2 Vinyl Inserts. NOTE: Steel Stanchions sold separately, see page 483B.

RECTANGULAR END POST KITS

CAT. NO.*	HEIGHT
S36EK	36" (914 mm)
S48EK	48" (1219 mm)
S60EK	60" (1524 mm)
S72EK	72" (1829 mm)

Minimum order: 1 each. * Specify color when ordering. Includes 1 Vinyl Insert and 1 Filler Insert. NOTE: Steel Stanchions sold separately, see page 483B.

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CRL AWS Rectangular 90 Degree Corner Posts and Post Kits

- Available as Posts Only or in Kits Containing Post, Top Cap, and Vinyl
- Seven Standard Colors, Plus Mill Aluminum
- Custom Colors Available Upon Request
- Accommodates 1/4" to 3/8" (6 to 10 mm) Glass Dry Glazed With Vinyl
- Accommodates 1/2" (12 mm) Glass Wet Glazed

Standard Corner Kits Include:

U.S. Patent
No. 7,730,677

90 Degree Corner Post

USE MONOLITHIC TEMPERED GLASS

STANDARD COLORS

Sky White Gloss	Oyster White Gloss	Agate Gray Gloss	Beige Gray Gloss	Black Matte	Bronze Matte	Silver Metallic

Colors shown are representative only, and may vary slightly from actual gloss, color, and texture. If color match is critical, please contact Technical Sales for additional information.

Additional Color Options - CRL has over 250 quick turn custom color options with the ability to color match as well.

RECTANGULAR CORNER POST ONLY

CAT. NO.*	HEIGHT/LENGTH
SP936	36" (914 mm)
SP948	48" (1219 mm)
SP960	60" (1524 mm)
SP972	72" (1829 mm)
SP9194	241" (6.12 m)#

Minimum order: 1 each. * Specify color when ordering.
Must ship common carrier.

RECTANGULAR CORNER POST KITS

CAT. NO.*	HEIGHT
S36CRK	36" (914 mm)
S48CRK	48" (1219 mm)
S60CRK	60" (1524 mm)
S72CRK	72" (1829 mm)

Minimum order: 1 each. * Specify color when ordering.
NOTE: Steel Stanchions sold separately, see page 483B.

2-5/8" (67 mm)
2-5/8" (67 mm)
9/16" (14 mm) Pocket Width
2" (51 mm)
13/16" (21 mm)
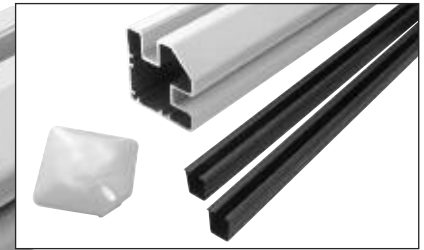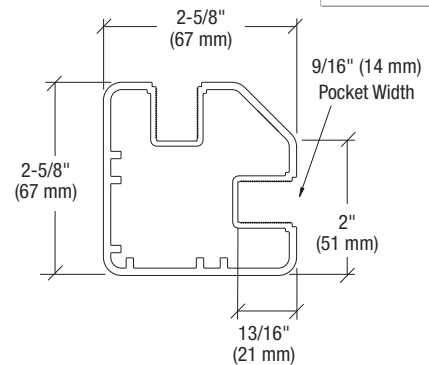
NOTE: Maximum Post Spacing is 72" (1829 mm) on center. Maximum square footage should not exceed 24 square feet per panel.

CRL AWS Rectangular 135 Degree Center Posts and Post Kits

- Available as Posts Only or in Kits Containing Post, Top Cap, and Vinyl
- Seven Standard Colors, Plus Mill Aluminum
- Custom Colors Available Upon Request
- Accommodates 1/4" to 3/8" (6 to 10 mm) Glass Dry Glazed With Vinyl
- Accommodates 1/2" (12 mm) Glass Wet Glazed

Standard 135 Degree Kits Include:

U.S. Patent
No. 7,730,677

135 Degree Center Post

USE MONOLITHIC TEMPERED GLASS

STANDARD COLORS

Sky White Gloss	Oyster White Gloss	Agate Gray Gloss	Beige Gray Gloss	Black Matte	Bronze Matte	Silver Metallic

Colors shown are representative only, and may vary slightly from actual gloss, color, and texture. If color match is critical, please contact Technical Sales for additional information.

Additional Color Options - CRL has over 250 quick turn custom color options with the ability to color match as well.

RECTANGULAR 135 DEGREE POST ONLY

CAT. NO.*	HEIGHT/LENGTH
SP536	36" (914 mm)
SP548	48" (1219 mm)
SP560	60" (1524 mm)
SP572	72" (1829 mm)
SP5241	241" (6.12 m)#

Minimum order: 1 each. * Specify color when ordering.
Must ship common carrier.

RECTANGULAR 135 DEGREE POST KITS

CAT. NO.*	HEIGHT
S365K	36" (914 mm)
S485K	48" (1219 mm)
S605K	60" (1524 mm)
S725K	72" (1829 mm)

Minimum order: 1 each. * Specify color when ordering.
NOTE: Steel Stanchions sold separately, see page 483B.

2-3/8" (60 mm)
13/16" (21 mm)
2" (51 mm)
9/16" (14 mm) Pocket Width
2" (51 mm)
2-3/8" (60 mm)

NOTE: Maximum Post Spacing is 72" (1829 mm) on center. Maximum square footage should not exceed 24 square feet per panel.

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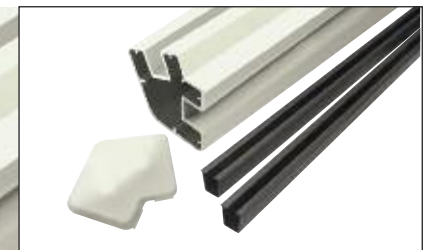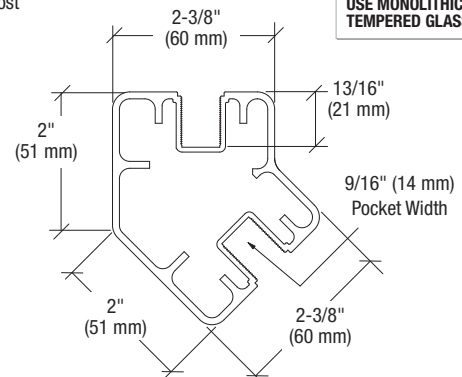
CRL AWS Round Aluminum Windscreen System

- 3" (76 mm) Diameter Aluminum Windscreen System for Pools, Balconies, Fencing, Steps, Slopes, and Many Other Options
- Designed and Engineered to Meet or Exceed Building Codes
- Adapts Easily to a Wide Variety of Terrain and Wall Designs

- Provides a Virtually Unobstructed View
- Will Accommodate 1/4" (6 mm), 3/8" (10 mm), and 1/2" (12 mm) Wet Set Glazing
- Standard Heights in Stock With Custom Heights Also Available

- Low Maintenance With All Components Specially Coated to Prevent Corrosion

Post Cap

1/4" to 1/2" (6 to 12 mm) Tempered Glass

Bottom Rail (Optional)

72" (1829 mm) Maximum Post Spacing

3" (76 mm) Post with Vinyl

1/4" to 1/2" (6 to 12 mm) Tempered Glass

Bottom Rail (Optional)
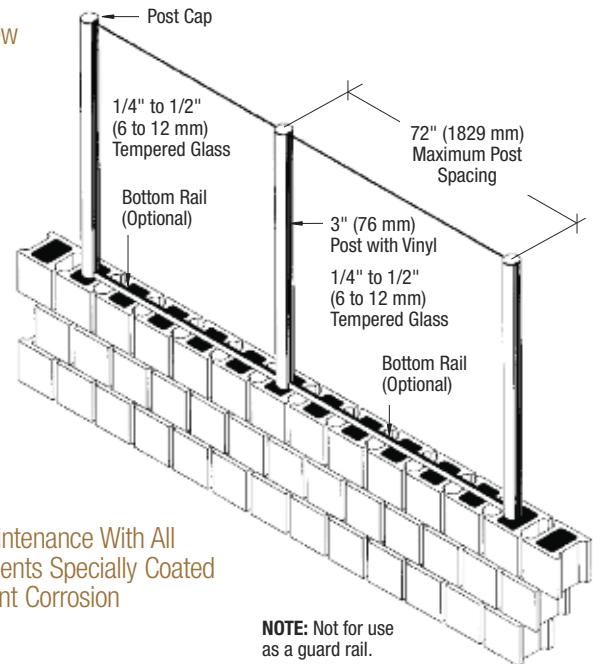
NOTE: Not for use as a guard rail.

CRL AWS Round 180 Degree Center or End Posts and Post Kits

- Available as Posts Only or in Kits Containing Post, Top Cap, and Vinyl
- Seven Standard Colors, Plus Mill Aluminum
- Custom Colors Available Upon Request
- Accommodates 1/4" to 3/8" (6 to 10 mm) Glass Dry Glazed With Vinyl
- Accommodates 1/2" (12 mm) Glass Wet Glazed

CRL U.S. ALUMINUM®
MANUFACTURED IN THE USA

U.S. Patent No. 7,730,677

USE MONOLITHIC TEMPERED GLASS

Center/End Post

Standard Center Kits Include:

Standard End Kits Include:

Kits can be used to fabricate posts used at the end of a barrier, or to join two panels at 180 degrees. They can accommodate 1/4" to 3/8" (6 to 10 mm) panels when dry glazed with vinyl, and 1/2" (12 mm) panels when wet glazed. They are available in seven standard colors, plus mill aluminum, with custom colors available on request.
NOTE: Maximum post spacing is 72" (1829 mm) on center. Maximum square footage should not exceed 24 square feet per panel.

Additional Color Options - CRL has over 250 quick turn custom color options with the ability to color match as well.

13/16" (21 mm)

End Post Filler (Kits Only)

9/16" (14 mm) Pocket Width

3" (76 mm)

Glazing Vinyl (Kits Only)

2-9/16" (65 mm)

STANDARD COLORS

| Sky White Gloss | Oyster White Gloss | Agate Gray Gloss | Beige Gray Gloss | Black Matte | Bronze Matte | Silver Metallic |

Colors shown are representative only, and may vary slightly from actual gloss, color, and texture. If color match is critical, please contact Technical Sales for additional information.

ROUND CENTER/END POST ONLY

CAT. NO.*	HEIGHT/LENGTH
RP36	36" (914 mm)
RP48	48" (1219 mm)
RP60	60" (1524 mm)
RP72	72" (1829 mm)
RP194	241" (6.12 m)#

Minimum order: 1 each. * Specify color when ordering. # Must ship common carrier. End Post Filler Inserts sold separately, see page 486B.

ROUND CENTER POST KITS

CAT. NO.*	HEIGHT
R36CK	36" (914 mm)
R48CK	48" (1219 mm)
R60CK	60" (1524 mm)
R72CK	72" (1829 mm)

Minimum order: 1 each. * Specify color when ordering. Includes 2 Vinyl Inserts. NOTE: Steel Stanchions sold separately, see page 483B.

ROUND END POST KITS

CAT. NO.*	HEIGHT
R36EK	36" (914 mm)
R48EK	48" (1219 mm)
R60EK	60" (1524 mm)
R72EK	72" (1829 mm)

Minimum order: 1 each. * Specify color when ordering. Includes 1 Vinyl Insert and 1 Filler Insert. NOTE: Steel Stanchions sold separately, see page 483B.

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From Anywhere in the U.S. or Canada

CRL® U.S. ALUMINUM

CRL AWS Round 90 Degree Corner Posts and Post Kits

- Available as Posts Only or in Kits Containing Post, Top Cap, and Vinyl
- Seven Standard Colors, Plus Mill Aluminum
- Custom Colors Available Upon Request
- Accommodates 1/4" to 3/8" (6 to 10 mm) Glass Dry Glazed With Vinyl
- Accommodates 1/2" (12 mm) Glass Wet Glazed

Standard Corner Kits Include:

90 Degree Corner Post

U.S. Patent No. 7,730,677

USE MONOLITHIC TEMPERED GLASS

STANDARD COLORS

Sky White Gloss	Oyster White Gloss	Agate Gray Gloss	Beige Gray Gloss	Black Matte	Bronze Matte	Silver Metallic

Colors shown are representative only, and may vary slightly from actual gloss, color, and texture. If color match is critical, please contact Technical Sales for additional information.

Additional Color Options - CRL has over 250 quick turn custom color options with the ability to color match as well.

3" (76 mm) · 9/16" (14 mm) Pocket Width · 13/16" (21 mm)

ROUND CORNER POST ONLY

CAT. NO.*	HEIGHT/LENGTH
RP936	36" (914 mm)
RP948	48" (1219 mm)
RP960	60" (1524 mm)
RP972	72" (1829 mm)
RP9194	241" (6.12 m)#

Minimum order: 1 each. * Specify color when ordering.
Must ship common carrier.

ROUND CORNER POST KITS

CAT. NO.*	HEIGHT
R36CRK	36" (914 mm)
R48CRK	48" (1219 mm)
R60CRK	60" (1524 mm)
R72CRK	72" (1829 mm)

Minimum order: 1 each. * Specify color when ordering.
NOTE: Steel Stanchions sold separately, see page 483B.

NOTE: Maximum Post Spacing is 72" (1829 mm) on center. Maximum square footage should not exceed 24 square feet per panel.

CRL AWS Round 135 Degree Center Posts and Post Kits

- Available as Posts Only or in Kits Containing Post, Top Cap, and Vinyl
- Seven Standard Colors, Plus Mill Aluminum
- Custom Colors Available Upon Request
- Accommodates 1/4" to 3/8" (6 to 10 mm) Glass Dry Glazed With Vinyl
- Accommodates 1/2" (12 mm) Glass Wet Glazed

Standard 135 Degree Kits Include:

135 Degree Center Post

U.S. Patent No. 7,730,677

USE MONOLITHIC TEMPERED GLASS

STANDARD COLORS

Sky White Gloss	Oyster White Gloss	Agate Gray Gloss	Beige Gray Gloss	Black Matte	Bronze Matte	Silver Metallic

Colors shown are representative only, and may vary slightly from actual gloss, color, and texture. If color match is critical, please contact Technical Sales for additional information.

Additional Color Options - CRL has over 250 quick turn custom color options with the ability to color match as well.

9/16" (14 mm) Pocket Width · 13/16" (21 mm) · 3" (76 mm)

ROUND 135 DEGREE POST ONLY

CAT. NO.*	HEIGHT/LENGTH
RP536	36" (914 mm)
RP548	48" (1219 mm)
RP560	60" (1524 mm)
RP572	72" (1829 mm)
RP5241	241" (6.12 m)#

Minimum order: 1 each. * Specify color when ordering.
Must ship common carrier.

ROUND 135 DEGREE POST KITS

CAT. NO.*	HEIGHT
R365K	36" (914 mm)
R485K	48" (1219 mm)
R605K	60" (1524 mm)
R725K	72" (1829 mm)

Minimum order: 1 each. * Specify color when ordering.
NOTE: Steel Stanchions sold separately, see page 483B.

NOTE: Maximum Post Spacing is 72" (1829 mm) on center. Maximum square footage should not exceed 24 square feet per panel.

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TOLL Phone: (800) 421-6144
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CRL US ALUMINUM

CRL AWS Core Mount Stanchions

- Zinc Plated to Prevent Corrosion
- Available in Four Different Sizes for Round or Rectangular Windscreen Posts
- Available in Stainless Steel for Coastal Installations
- Fit All of Our Rectangular or Round Aluminum Posts

AWS Core Mount Stanchions are available in Grade 50 Zinc Plated Steel or Grade 304 Stainless Steel for use with our AWS Windscreen Posts. Stanchions are recommended to be set into 8,000 psi concrete with a minimum of 4" (102 mm) embedment depth for a concrete slab. If installing the Stanchion into a block wall, allow a 15" (381 mm) minimum embedment depth. See page 477B for application drawing. Sold six per package (individual Stanchions are not available).
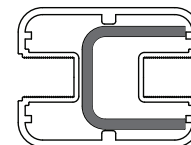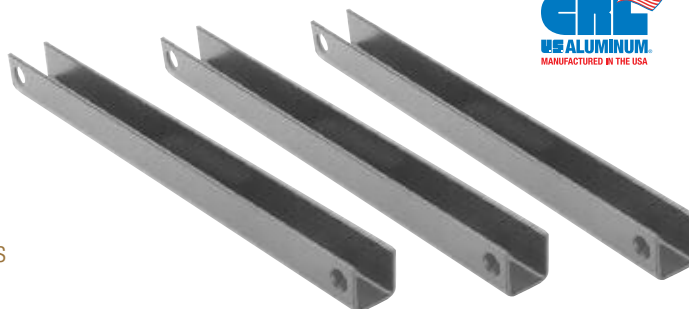
CAT. NO.	DESCRIPTION	HEIGHT	FOR POST HEIGHT	THICKNESS
PST1	Grade 50 Steel Stanchion	18" (457 mm)	Up to 36" (914 mm)	1/8" (3 mm)
PST2	Grade 50 Steel Stanchion	18" (457 mm)	Up to 48" (1219 mm)	1/4" (6 mm)
PST3	Grade 50 Steel Stanchion	30" (762 mm)	Up to 72" (1829 mm)	1/4" (6 mm)
PST4	Grade 304 Stainless Steel Stanchion	30" (762 mm)	Up to 72" (1829 mm)	1/8" (3 mm)
PST6	Grade 50 Steel Stanchion	42" (1067 mm)	Special Conditions	1/4" (6 mm)

Minimum order: 1 pack of six. For Posts less than 30" (762 mm) tall, the Stanchion can be cut to size.

CRL AWS Welded Steel Surface Mount Stanchions

- Mounting Bases Available in Seven Standard Colors, Plus Mill Aluminum to Match AWS Posts
- 90,135, and 180 Degree Bases are Designed for Concrete or Steel Installations
- Attaches to the Post Using Our 95CBL Silicone
- Zinc Plated and Powder Coated to Prevent Corrosion

AWS Welded Grade 50 Zinc Plated Steel Stanchions are for use on surface mount applications with our Aluminum Windscreen Posts. Stanchions are welded to a steel base plate, and then zinc plated and powder coated to match our AWS Posts and Bottom Rails.

Stanchions are available in different sizes based on the height of the post, and are sold individually. Surface Mounted Stanchions are offered in seven standard colors, plus mill aluminum, with custom colors available on special order. A Moisture Barrier Gasket is included with each Stanchion. See page 477B for application diagram.

1/2" (12 mm) Diameter Mounting Holes
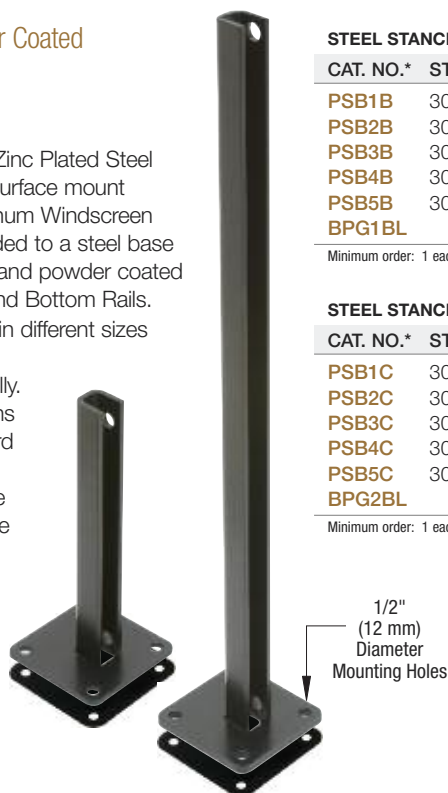
STEEL STANCHIONS FOR POST HEIGHTS UP TO 24" (610 MM)

CAT. NO.*	STANCHION HEIGHT	APPLICATION
PSB1A	12" (305 mm)	For 180 Degree Round or Rectangular Center or End Posts
PSB2A	12" (305 mm)	For 90 Degree Round Corner Posts
PSB3A	12" (305 mm)	For 90 Degree Rectangular Corner Posts
PSB4A	12" (305 mm)	For 135 Degree Round Center Posts
PSB5A	12" (305 mm)	For 135 Degree Rectangular Center Posts
BPG1BL	-----	Replacement Moisture Barrier Gasket

Minimum order: 1 each. *Specify color when ordering. Base measures 5" x 5" (127 x 127 mm) and is 3/8" (10 mm) thick.

STEEL STANCHIONS FOR POST HEIGHTS UP TO 48" (1219 MM)

CAT. NO.*	STANCHION HEIGHT	APPLICATION
PSB1B	30" (762 mm)	For 180 Degree Round or Rectangular Center or End Posts
PSB2B	30" (762 mm)	For 90 Degree Round Corner Posts
PSB3B	30" (762 mm)	For 90 Degree Rectangular Corner Posts
PSB4B	30" (762 mm)	For 135 Degree Round Center Posts
PSB5B	30" (762 mm)	For 135 Degree Rectangular Center Posts
BPG1BL	-----	Replacement Moisture Barrier Gasket

Minimum order: 1 each. *Specify color when ordering. Base measures 5" x 5" (127 x 127 mm) and is 3/8" (10 mm) thick.

STEEL STANCHIONS FOR POST HEIGHTS UP TO 72" (1829 MM)

CAT. NO.*	STANCHION HEIGHT	APPLICATION
PSB1C	30" (762 mm)	For 180 Degree Round or Rectangular Center or End Posts
PSB2C	30" (762 mm)	For 90 Degree Round Corner Posts
PSB3C	30" (762 mm)	For 90 Degree Rectangular Corner Posts
PSB4C	30" (762 mm)	For 135 Degree Round Center Posts
PSB5C	30" (762 mm)	For 135 Degree Rectangular Center Posts
BPG2BL	-----	Replacement Moisture Barrier Gasket

Minimum order: 1 each. *Specify color when ordering. Base measures 6" x 6" (152 x 152 mm) and is 1/2" (12 mm) thick.

STANDARD COLORS

Sky White Gloss	Oyster White Gloss	Agate Gray Gloss	Beige Gray Gloss	Black Matte	Bronze Matte	Silver Metallic

Colors shown are representative only, and may vary slightly from actual gloss, color, and texture. If color match is critical, please contact Technical Sales for additional information.

Additional Color Options - CRL has over 250 quick turn custom color options with the ability to color match as well.

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TOLL Phone: (800) 421-6144
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From Anywhere in the U.S. or Canada

CRL US ALUMINUM

CRL AWS Rectangular Post Caps

- Ready to Install
- Available in Seven Standard Colors, Plus Mill Aluminum
- Attaches to Post Using Our 95CBL Silicone
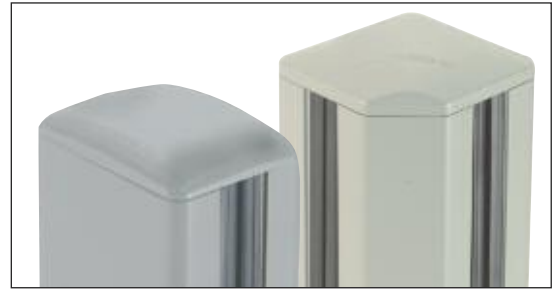
Rectangular Post Top Caps slip easily into our Post Extrusions. Use our Cat. No. 95CBL Silicone (see page 490B) to secure and fasten Caps to Posts. Standard colors are shown on page 476B. Additional color options include over 250 quick turn custom colors, as well as the ability to color match to your requirements.

Cap for 180 Degree Center or End Posts

CAT. NO.	COLOR
PC1EWW	Sky White
PC1EW0W	Oyster White
PC1EWAGY	Agate Gray
PC1EWBGY	Beige Gray
PC1EWBL	Matte Black
PC1EWBRZ	Matte Bronze
PC1EWS	Silver Metallic
PC1EWCRM	Mill Aluminum

Minimum order: 1 each.

Cap for 135 Degree Center Post

CAT. NO.	COLOR
PC135SW	Sky White
PC135S0W	Oyster White
PC135SAGY	Agate Gray
PC135SBGY	Beige Gray
PC135SBL	Matte Black
PC135SBRZ	Matte Bronze
PC135SS	Silver Metallic
PC135SCRM	Mill Aluminum

Minimum order: 1 each.

Cap for 90 Degree Corner Post

CAT. NO.	COLOR
PC9SW	Sky White
PC9S0W	Oyster White
PC9SAGY	Agate Gray
PC9SBGY	Beige Gray
PC9SBL	Matte Black
PC9SBRZ	Matte Bronze
PC9SS	Silver Metallic
PC9SCRM	Mill Aluminum

Minimum order: 1 each.

CRL AWS Round Post Caps

- Ready to Install
- Available in Seven Standard Colors, Plus Mill Aluminum

Round Post Top Caps slip easily into our Post Extrusions. Use our Cat. No. 95CBL Silicone (see page 490B) to secure and fasten Caps to Posts. Standard colors are shown on page 476B. Additional color options include over 250 quick turn custom colors, as well as the ability to color match to your requirements.

Cap for 180 Degree Center or End Posts

CAT. NO.	COLOR
PC1RW	Sky White
PC1R0W	Oyster White
PC1RAGY	Agate Gray
PC1RBGY	Beige Gray
PC1RBL	Matte Black
PC1RBRZ	Matte Bronze
PC1RS	Silver Metallic
PC1RCRM	Mill Aluminum

Minimum order: 1 each.

Cap for 135 Degree Center Post

CAT. NO.	COLOR
PC135RW	Sky White
PC135R0W	Oyster White
PC135RAGY	Agate Gray
PC135RBGY	Beige Gray
PC135RBL	Matte Black
PC135RBRZ	Matte Bronze
PC135RS	Silver Metallic
PC135RCRM	Mill Aluminum

Minimum order: 1 each.

Cap for 90 Degree Corner Post

CAT. NO.	COLOR
PC9RW	Sky White
PC9R0W	Oyster White
PC9RAGY	Agate Gray
PC9RBGY	Beige Gray
PC9RBL	Matte Black
PC9RBRZ	Matte Bronze
PC9RS	Silver Metallic
PC9RCRM	Mill Aluminum

Minimum order: 1 each.

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TOLL Phone: (800) 421-6144
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From Anywhere in the U.S. or Canada

CRL
US ALUMINUM

CRL AWS Notched Rectangular Post Caps

- Required When Glass Height Extends Beyond the Posts
- Ready to Install
- Available in Seven Standard Colors, Plus Mill Aluminum
- Attaches to Post Using Our 95CBL Silicone

NEW!

CRL US ALUMINUM® MANUFACTURED IN THE USA

Notched Rectangular Post Top Caps slip easily into our Post Extrusions. Notched Post Top Caps are used on jobs that require the glass windscreen height to extend beyond that of the posts. Use our Cat. No. 95CBL Silicone (see page 490B) to secure and fasten Caps to Posts. Standard colors are shown on page 476B. Additional color options include over 250 quick turn custom colors, as well as the ability to color match to your requirements.

Notched Cap for 180 Degree End Post

CAT. NO.	COLOR
NC1EW	Sky White
NC1E0W	Oyster White
NC1EAGY	Agate Gray
NC1EBGY	Beige Gray
NC1EBL	Matte Black
NC1EBRZ	Matte Bronze
NC1ES	Silver Metallic
NC1ECRM	Mill Aluminum

Minimum order: 1 each.

Notched Cap for 180 Degree Center Post

CAT. NO.	COLOR
NC1CW	Sky White
NC1C0W	Oyster White
NC1CAGY	Agate Gray
NC1CBGY	Beige Gray
NC1CBL	Matte Black
NC1CBRZ	Matte Bronze
NC1CS	Silver Metallic
NC1CCRM	Mill Aluminum

Minimum order: 1 each.

Notched Cap for 90 Degree Corner Post

CAT. NO.	COLOR
NC1LW	Sky White
NC1L0W	Oyster White
NC1LAGY	Agate Gray
NC1LBGY	Beige Gray
NC1LBL	Matte Black
NC1LBRZ	Matte Bronze
NC1LS	Silver Metallic
NC1LCRM	Mill Aluminum

Minimum order: 1 each.

Notched Cap for 135 Degree Center Post

CAT. NO.	COLOR
NC13W	Sky White
NC130W	Oyster White
NC13AGY	Agate Gray
NC13BGY	Beige Gray
NC13BL	Matte Black
NC13BRZ	Matte Bronze
NC13S	Silver Metallic
NC13CRM	Mill Aluminum

Minimum order: 1 each.

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TOLL Phone: (800) 421-6144
FREE Fax: (800) 262-3299
From Anywhere in the U.S. or Canada

CRL US ALUMINUM®

CRL AWS Windscreen Post Pocket Fillers

- Ready to Snap Into Glass Pocket
- Low Maintenance, With Special Coating to Prevent Corrosion
- Seven Standard Colors, Plus Mill Aluminum

CAT. NO.*	LENGTH
PF36	36" (914 mm)
PF48	48" (1219 mm)
PF60	60" (1524 mm)
PF72	72" (1829 mm)
PF194	241" (6.12 m)#

Minimum order: 1 each. *Specify color when ordering.
See page 476B for color chart. # Must ship common carrier.

5/8" (16 mm)
7/16" (11 mm)
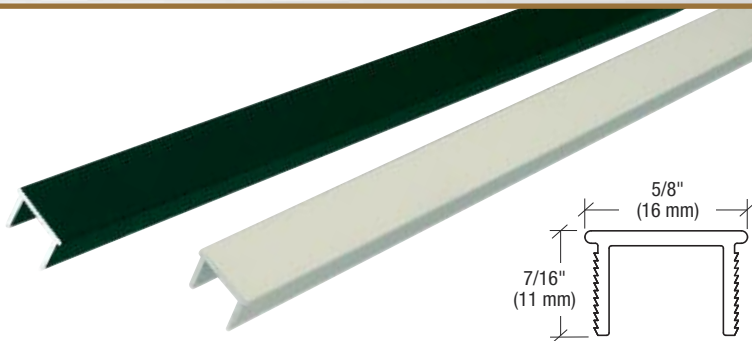
CRL AWS Windscreen Post Pocket Fillers are designed to be snapped into the glass pocket of the Windscreen Post where glass will not be used. No tools or adhesives are required, and they can be removed to reconfigure post layouts if required. All Post Pocket Fillers are low maintenance, with a special coating to prevent corrosion. These aluminum fillers are available in the same seven standard colors as our Windscreen Posts, plus mill aluminum. Custom colors are also available.

CRL AWS Rigid Glazing Vinyl

- Black Color Rigid Push-In Glazing Vinyl for Use With Aluminum Windscreen Posts and Bottom Rails
- Designed to Accommodate 1/4" to 3/8" (6 to 10 mm) Tempered Glazing

CAT. NO.	LENGTH
GV36BL	36" (914 mm)
GV48BL	48" (1219 mm)
GV60BL	60" (1524 mm)
GV72BL	72" (1829 mm)
GV120BL	144" (3.66 m)#

Minimum order: 1 each. # Stock lengths longer than 98" (2.49 m) must ship common carrier, unless you specify we cut them for U.P.S. A cutting charge will apply.

5/8" (16 mm)
3/4" (19 mm)
7/16" (11 mm)

USE MONOLITHIC TEMPERED GLASS

AWS Rigid Glazing Vinyl is used to dry glaze 1/4" to 3/8" (6 to 10 mm) tempered glass into CRL AWS Windscreen System Posts and Bottom Rails. Available in five different lengths, the Vinyl has an overall width of 5/8" (16 mm).

CRL AWS Bottom Rail Kits With Rigid Glazing Vinyl

- Low Maintenance, With a Special Coating to Prevent Corrosion
- Designed to Accommodate 1/4" to 3/8" (6 to 10 mm) Tempered Glazing
- Accommodates 1/2" (12 mm) Glass Wet Glazed
- Seven Standard Colors, Plus Mill Aluminum
- Custom Colors Also Available

CAT. NO.*	LENGTH
BR36K	36" (914 mm)
BR48K	48" (1219 mm)
BR60K	60" (1524 mm)
BR72K	72" (1829 mm)
BR194	241" (6.12 m)#

Minimum order: 1 each. *Specify color when ordering.
See page 476B for color chart. # Must ship common carrier.

USE MONOLITHIC TEMPERED GLASS

Included Vinyl is only for use with 1/4" to 3/8" (6 to 10 mm) tempered glazing. 1/2" (12 mm) tempered glass must be wet glazed.

AWS Bottom Rails are designed to be mounted to a substrate using Cat. No. 95CBL Silicone (see page 490B). All AWS Bottom Rails have a special chromate coating to prevent corrosion, and are powder coated in the stock colors to match our Windscreen Posts. Kits include a length of Rigid Glazing Vinyl, except BR194, which uses Cat. No. GV120BL Vinyl (sold separately).

Bottom Rail
1" (25 mm)
CRL 95C Silicone
7/16" (11 mm)
1-5/16" (33 mm)

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TOLL Phone: (800) 421-6144
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CRL US ALUMINUM

CRL Intermediate Bottom Glass Rail

- Bottom Rail Designed to Accommodate 1/4" to 1/2" (6 to 12 mm) Tempered Glass
- Seven Standard Colors, Plus Mill Aluminum
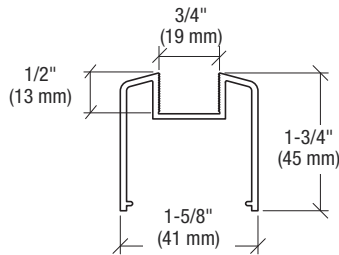
CAT. NO.	COLOR
BRGLSW	Sky White
BRGLS0W	Oyster White
BRGLSAGY	Agate Gray
BRGLSBGY	Beige Gray
BRGLSBL	Matte Black
BRGLSBRZ	Matte Bronze
BRGLSS	Silver Metallic
BRGLSCRM	Mill Aluminum

Minimum order: 1 each. Must ship common carrier.

Our Intermediate Bottom Rail is designed to accommodate 1/4" to 3/8" (6 to 10 mm) tempered glass with vinyl, 1/2" (12 mm) glazing if wet glazed. Simply snaps over Rail Connecting Block for an easy install. Stock lengths measure 20'-1" (6.12 m).

CRL Standard Bottom Rail Filler

- Snaps in to Conceal the Underside of Bottom Rails and Create a Flush Look
- Seven Standard Colors, Plus Mill Aluminum
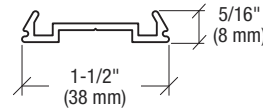
CAT. NO.	COLOR
BRF241W	Sky White
BRF2410W	Oyster White
BRF241AGY	Agate Gray
BRF241BGY	Beige Gray
BRF241BL	Matte Black
BRF241BRZ	Matte Bronze
BRF241S	Silver Metallic
BRF241CRM	Mill Aluminum

Minimum order: 1 each. Must ship common carrier.

CRL Standard Bottom Rail Filler is designed to finish off the underside of the Bottom Glass Rail to create a flush look. Stock lengths measure 20'-1" (6.12 m).

CRL Rail Connecting Blocks

- For Use When Installing Bottom Rails
- Three Standard Lengths Available

Use CRL Rail Connecting Blocks to connect Bottom Rails to vertical posts. Screw Blocks through outer two screw race locations on post using Cat. No. RCBS Rail Connecting Block Screws (see page 491B). Miter cut the 12" or 241" lengths when building angles and slopes. All Connecting Blocks are extruded aluminum with a weather resistant chromate finish.

CAT. NO.	LENGTH
RCB2	1" (25 mm)
RCB212	12" (305 mm)
RCB2241	241" (6.12 m)#

Minimum order: 1 each. # Must ship common carrier.

RCBS Screw

Connecting Block
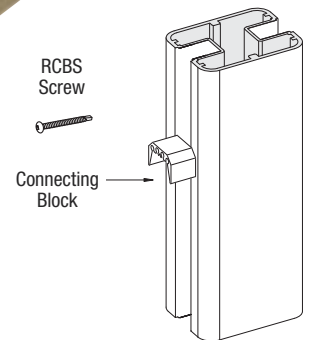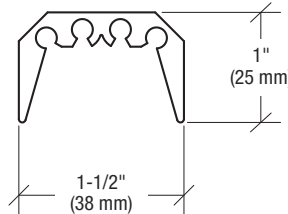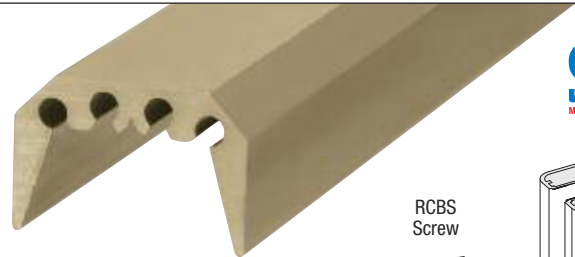
CRL Bottom Rigid Glazing Vinyl

- Vinyl is Designed to Snap in Before the Glass is Installed
- Two Sizes for Use With 1/4" or 3/8" (6 or 10 mm) Thick Tempered Glass

CRL Bottom Rigid Vinyl comes in two sizes to hold 1/4" or 3/8" (6 or 10 mm) glass. When installing Rigid Vinyl, snap it into place before you install the glass. Stock lengths are 12' (3.66 m).

Bottom Rail

CAT. NO.	DESCRIPTION
14BV	Bottom Vinyl for 1/4" (6 mm) Thick Glass
38BV	Bottom Vinyl for 3/8" (10 mm) Thick Glass

Minimum order: 1 each. Sizes can be combined for quantity pricing. A Packing Charge will be added to orders of fewer than five combined lengths. Stock lengths longer than 98" (2.49 m) must ship common carrier, unless you specify we cut them for U.P.S. A Cutting Charge will apply.

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TOLL Phone: (800) 421-6144
FREE Fax: (800) 262-3299
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CRL US ALUMINUM

CRL **HD** Heavy-Duty Windscreen Post System

NEW!

USE MONOLITHIC TEMPERED GLASS

or

USE LAMINATED TEMPERED GLASS

- Great for Roof Top Glass Fencing, WIndscreens and Guard Rail Applications When a Hand Rail is Incorporated for Fall Protection
- (HD) Heavy-Duty Design to Meet Higher Wind Load Requirements and/or Regions
- Designed for Core Mount Installations; Surface Mount Options Also Available on Special Order

These Kits can be used to fabricate Heavy-Duty Posts used at the end of a barrier, or to join two panels at 180 degrees. They can accommodate 1/4" to 3/8" (6 to 10 mm) panels when dry glazed with vinyl, and 1/2" to 9/16" (12 to 13.52 mm) panels when wet glazed. They are available in seven standard colors, plus mill aluminum, with custom colors available on request. **NOTE:** Maximum Post Spacing is 72" (1829 mm) on center. Maximum square footage should not exceed 24 square feet per panel.
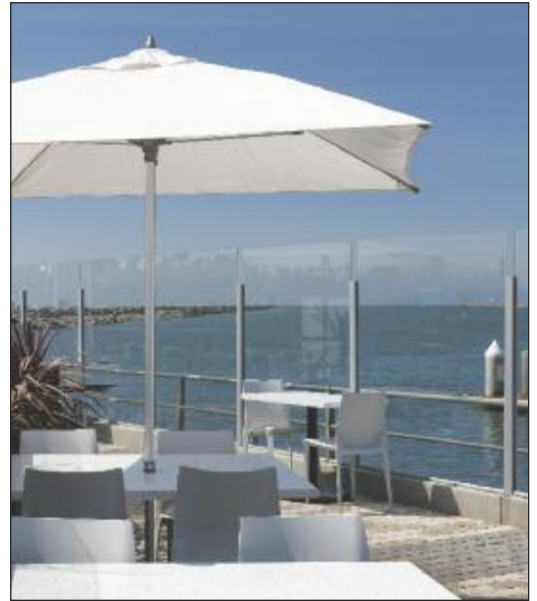
CRL **HD** Heavy-Duty Windscreen Post Kits **NEW!**

- Available as Posts Only or in Kits Containing Post, Top Cap, and Vinyl
- Seven Standard Colors, Plus Mill Aluminum
- Custom Colors Available Upon Request

- Accommodates 1/4" to 3/8" (6 to 10 mm) Glass Dry Glazed With Vinyl
- Accommodates 1/2" (12 mm) and 9/16" (13.52 mm) Glass Wet Glazed With Structural Silicone
- Kits Come Complete With Post, Flat Top Cap, and Glazing Vinyl

Dimensions: 2-5/8" (67 mm), 1/8" (3 mm), 2-3/4" (70 mm), 9/16" (14 mm), 13/16" (21 mm)

See Page 489B for Post Fillers (Sold Separately)
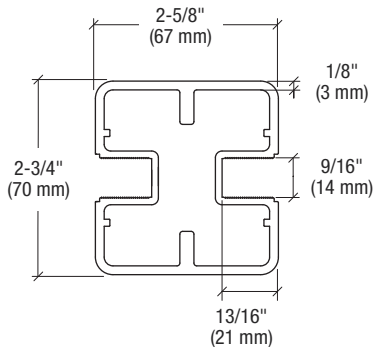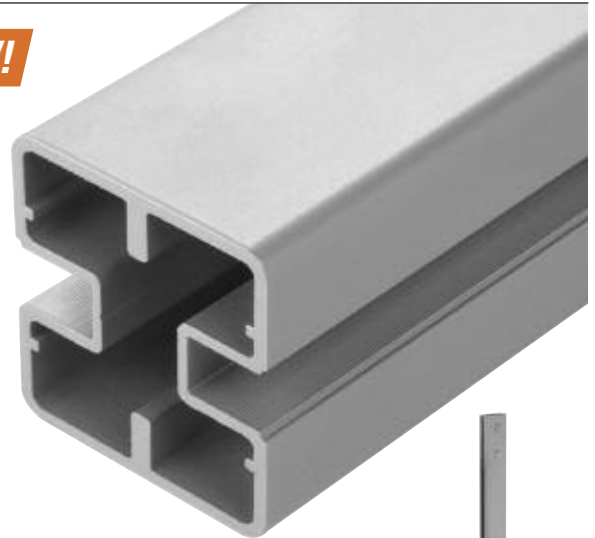
HEAVY-DUTY POST ONLY

CAT. NO.*	HEIGHT/LENGTH
HD48	48" (1219 mm)
HD60	60" (1524 mm)
HD72	72" (1829 mm)
HD156	156" (3.96 m)#

Minimum order: 1 each. *Specify color when ordering.
Must ship common carrier.

HEAVY-DUTY POST KITS

CAT. NO.*	HEIGHT
HD48CK	48" (1219 mm)
HD60CK	60" (1524 mm)
HD72CK	72" (1829 mm)

Minimum order: 1 each. *Specify color when ordering.
End Post Filler Inserts sold separately. See page 489B.
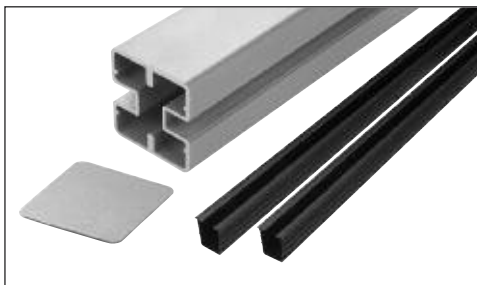
STANDARD COLORS

Sky White Gloss | Oyster White Gloss | Agate Gray Gloss | Beige Gray Gloss | Black Matte | Bronze Matte | Silver Metallic

Colors shown are representative only, and may vary slightly from actual gloss, color, and texture. If color match is critical, please contact Technical Sales for additional information.

Additional Color Options - CRL has over 250 quick turn custom color options with the ability to color match as well.

Core Mount Stanchion

See Page 489B for Stanchions (Sold Separately)

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CRL US ALUMINUM

CRL **HD** Heavy-Duty AWS Core Mount Stanchion

NEW!

- Zinc Plated to Prevent Corrosion
- Available for CRL's Heavy-Duty Posts Only
- Available in Stainless Steel for Coastal Installations

Heavy-Duty AWS Core Mount Stanchions are available in Grade 50 Zinc Plated Steel for use with our Heavy-Duty AWS Windscreen Posts. Stanchions are recommended to be set into 8,000 psi concrete with a minimum of 4" (102 mm) embedment depth for a concrete slab. If installing the Stanchion into a block wall, allow a 15" (381 mm) minimum embedment depth. Sold six per package (individual Stanchions are not available).

Heavy-Duty Windscreen Post
Sold Separately (see opposite page)

CAT. NO.	DESCRIPTION	HEIGHT	FOR POST HEIGHT	THICKNESS
PST10	Grade 50 Steel Stanchion	48" (1219 mm)	Up to 36" (914 mm)	1/8" (3 mm)

Minimum order: 1 pack of six. For Posts less than 30" (762 mm) tall, the Stanchion can be cut to size.

CRL AWS Windscreen Post Pocket Fillers

- Ready to Snap Into Glass Pocket
- Works With Standard AWS Posts and HD Posts
- Seven Standard Colors, Plus Mill Aluminum
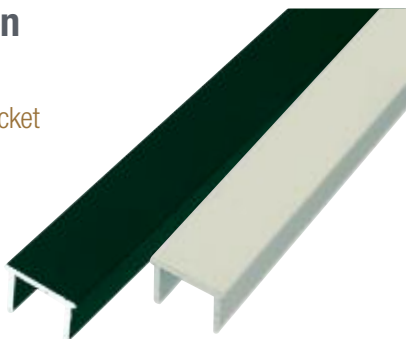
CAT. NO.*	LENGTH
PF36	36" (914 mm)
PF48	48" (1219 mm)
PF60	60" (1524 mm)
PF72	72" (1829 mm)
PF194	241" (6.12 m)#

Minimum order: 1 each. *Specify color when ordering.
See page 488B for color chart. # Must ship common carrier.

5/8" (16 mm)
7/16" (11 mm)
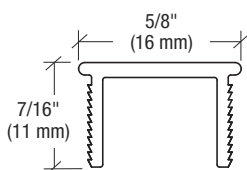
CRL Cap for 180 Degree Center or End Posts

NEW!

- Designed for Use With HD Posts Only
- Seven Standard Colors, Plus Mill Aluminum
- Attached With CRL Silicone Cat. No. 95CBL (See Page 490B)

CAT. NO.	COLOR
HDPC1W	Sky White
HDPC10W	Oyster White
HDPC1AGY	Agate Gray
HDPC1BGY	Beige Gray
HDPC1BL	Matte Black
HDPC1BRZ	Matte Bronze
HDPC1S	Silver Metallic
HDPC1CRM	Mill Aluminum

Minimum order: 1 each.

Optional Bottom Rail Choices
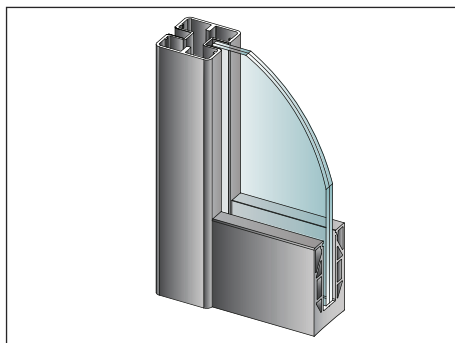
Floor Mount Base Shoe Design
Using CRL's 8B/9BL Series Base Shoes
See Pages 143B and 162B
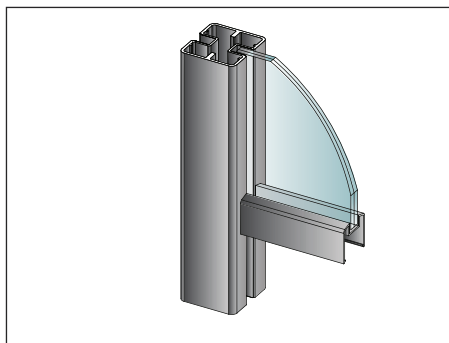
Elevated Bottom Rail Design
Using CRL's BRGLS Profile Bottom Rail
See Page 487B
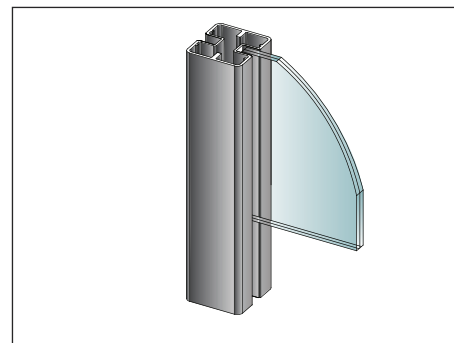
No Bottom Rail Option
Using CRL's WPSB1 Setting Blocks
See Page 490B

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489B

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FREE Fax: (800) 262-3299
From Anywhere in the U.S. or Canada

or enter the Catalog Number for complete product information

CRL US ALUMINUM

CRL 95C Silicone Building Sealant

- Excellent Primerless Adhesion to Most Common Construction Substrates
- ± 50% Joint Width Movement
- Long Tooling Time, All Temperature Gunning, Plus Each Cartridge has a Screw-On Nozzle
- Custom Colors Available

INTERIOR EXTERIOR

SPEC. DATA ONLINE

10.3 Fl. Oz. (305 ml) Cartridges; 30 Per Case; 1440 Per Pallet.
NOTE: 20 Fl. Oz (591 ml) Sausages Available in Black Only; 15 Per Case; 990 Per Pallet.
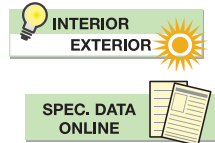
Available in These Colors

Black | Dark Bronze | Gray | Limestone | Precast White | White
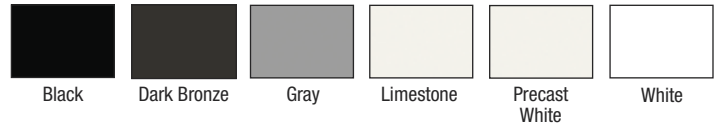
CRL 95C Silicone is a one part, low modulus, neutral cure formulation that cures to a durable and flexible silicone rubber building joint seal. It can accommodate ± 50 percent joint movement in properly designed joints. Designed for sealing expansion and control joints in precast concrete panels and metal curtainwalls; non-structural glazing of glass, metal, and plastic, as well as waterproofing applications, including perimeter sealing of doors and windows. CRL 95C forms a durable, flexible, watertight bond with most building materials in any combination of glass, ceramics, plastics, stone, masonry, wood, steel, anodized and mill-finished aluminum, and painted surfaces. CRL 95C can be applied at outdoor temperatures as low as -20°F (-29°C), provided that surfaces are clean, dry, and frost-free, or on surfaces as high as 100°F (38°C). Cured sealant will perform at cold temperatures down to -40°F (-40°C), or at temperatures up to 350°F (177°C). Qualifies for **LEED®** (Leadership in Energy and Environmental Design) Green Building Rating System™ credit.

CARTRIDGE CAT. NO.	SAUSAGE CAT. NO.	COLOR
95CBL	95CSBL	Black
95CDBRZ	---	Dark Bronze
95CGRY	---	Gray
95CL	---	Limestone
95CW	---	Precast White
95CWHT	---	White

Minimum order: 1 each cartridge, 15 each sausages.
Colors can be combined for quantity pricing.

CRL Lacquer Blend Touch-Up Paint

- Matches Seven Standard CRL Powder Paint Colors (See Page 476B)
- Used to Cover Scratches or Bare Metal Ends

INTERIOR EXTERIOR

NO AIR FREIGHT

Use CRL Lacquer Blend Touch-Up Paint to cover scratches or bare metal ends. It can be applied at the job site, thus eliminating the need for costly dismantling and reassembling of the affected parts. Touch-Up Paint is a cost and labor saver. 12 oz. (340 g) per can.

CAT. NO.	COLOR
SP8W	Sky White
SP80W	Oyster White
SP8AGY	Agate Gray
SP8BGY	Beige Gray
SP8BL	Matte Black
SP8BRZ	Matte Bronze
SP8S	Silver Metallic

Minimum order: 1 each. Colors can be combined for quantity pricing.

CRL Glass Pocket Setting Block for Windscreen Posts

- Black Color Blocks Can Be Easily Cut to Any Length
- Will Not Compress Under Glass Weight

- Designed for Applications Where No Bottom Rail is Specified

CRL Windscreen Post Setting Blocks are designed for applications where no bottom rail is specified. The Blocks fit into the glass pocket to support the glass panel at the height you determine. It is made of a rigid UHMW plastic composite that won't compress under the weight of the glass, helping to maintain an even sight line. You can trim it to any length you require.

3/4" (19 mm)
1/2" (13 mm)
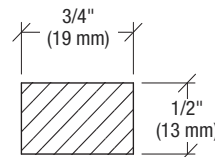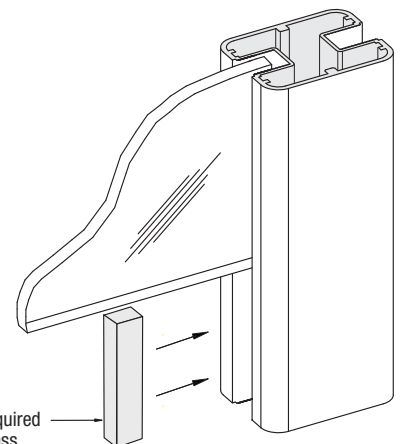
Setting Block is Cut to Required Length and Inserted in Glass Pocket with our 95CBL Silicone.

CAT. NO.	THICKNESS	WIDTH	LENGTH
WPSB1	1/2" (13 mm)	3/4" (19 mm)	24" (610 mm)

Minimum order: 1 each.

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490B

TOLL Phone: (800) 421-6144
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CRL US ALUMINUM

CRL 3/8" Lag Bolts

- To Attach Vertical Posts to a Wooden Substrate
- 304 Grade Stainless Steel
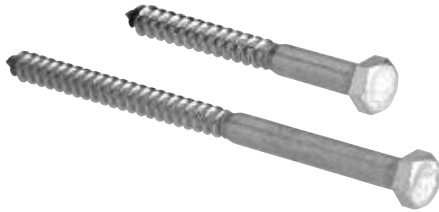
CAT. NO.	LENGTH
LB350	3-1/2" (90 mm)
LB600	6" (152 mm)

Minimum order: 20 each.

Hilti® KWIK Bolt TZ Concrete Anchors

- Carbon Steel and 304 Grade Stainless Steel Available

Hilti® KWIK Bolt TZ is a 2006, 2009, and 2012 IBC Compliant, torque controlled, heavy-duty expansion bolt designed for high performance in static and dynamic load applications. **NOTE:** Carbon Steel Anchor is recommended for interior installations only.
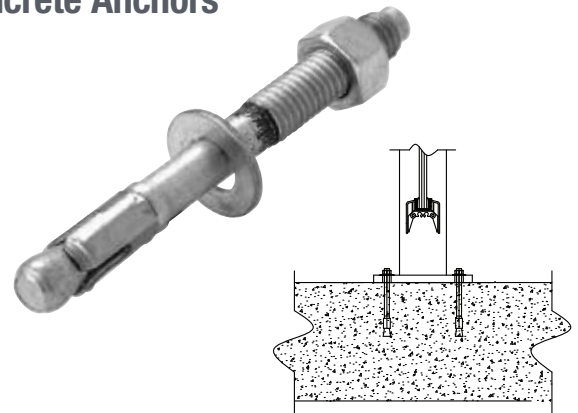
CAT. NO.	DESCRIPTION	APPLICATION	SIZE
CA38X334SS	304 Stainless Steel Anchor	Exterior/Interior	3/8" x 3-3/4" (95 mm)
CA38X334	Carbon Steel Anchor	Interior Only	3/8" x 3-3/4" (95 mm)

Minimum order: 50 each. Must be ordered in increments of 50.

CRL Color Match Bolt Cover Buttons

- Snap-On Fit
- Seven Standard Colors

CRL Color Match Bolt Cover Buttons are designed to cover up exposed Concrete Anchors and Lag Bolts on Vertical Post Base Plates. Plastic Buttons snap over Cat. No. WSHR1 Stainless Steel Washers to create a finished look.

CAT. NO.	COLOR
BTN1W	Sky White
BTN10W	Oyster White
BTN1AGY	Agate Gray
BTN1BGY	Beige Gray
BTN1BL	Matte Black
BTN1BRZ	Matte Bronze
BTN1DS	Dark Silver

Minimum order: 50 each.

Button Snaps on Washer to Conceal Anchor Head

Button Diameter: 1-3/16" (30 mm) Button Height: 3/8" (10 mm)

CRL Stainless Steel Button Washer

- Sleek Design Allows Bolt Cover Buttons to Snap Over the Stainless Steel Washer

1" (25 mm) diameter Stainless Steel Washer with a 7/16" (11 mm) hole. Designed to accept CRL Color Match Bolt Cover Buttons.

Install Anchor and Washer Through Base Plate

Snap Bolt Cover Button on Washer

- 304 Grade Stainless Steel

CAT. NO.	DIAMETER	HOLE	THICKNESS
WSHR1	1" (25 mm)	7/16" (11 mm)	1/8" (3 mm)

Minimum order: 50 each.

CRL Rail Connecting Block Screws

- For Securing Rail Connecting Blocks to the Post
- Self-Tapping Type Points
- 304 Grade Stainless Steel
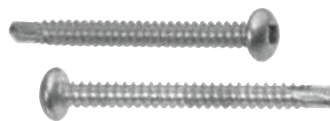
CAT. NO. RCBS
#10 x 2" Rail Connecting Block Screw
Minimum order: 50 each

CAT. NO. 9502
Square Insert Bit
Minimum order: 1 each
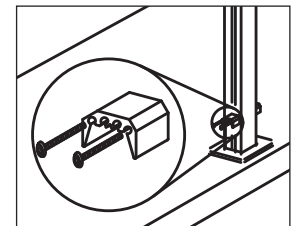
CRL Tek Screws

- Holds Elevated Bottom Rail to Rail Connecting Blocks
- Self-Tapping Type Points
- 304 Grade Stainless Steel

Hilti is a registered trademark of Hilti Aktiengesellschaft Corporation.

CAT. NO. TEK1
#8 x 3/4" Rail Fastening Screw
Minimum order: 50 each
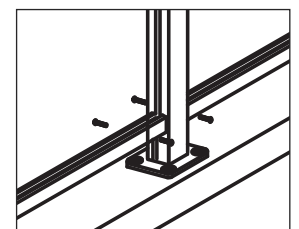
CAT. NO. 9502
Square Insert Bit
Minimum order: 1 each

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491B

TOLL Phone: (800) 421-6144
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From Anywhere in the U.S. or Canada

CRL
US ALUMINUM

CRL 4" x 4" Square Windscreen Post System

- Heights Up to 48" (1219 mm) for Surface Mount Applications
- Seven Standard Powder Coated Colors, Plus Mill Aluminum
- Custom Colors Also Available
- Accommodates 1/4" to 3/8" (6 to 10 mm) Tempered Glass Dry Glazed With Vinyl
- Accommodates 1/2" (12 mm) Tempered Glass When Wet Glazed

USE MONOLITHIC TEMPERED GLASS

With seven standard colors available, plus mill aluminum, and over 250 quick turn colors to choose from, CRL can build Windscreen Systems that fit a wide variety of environments, commercial or residential. Ideal for pools, decks, outdoor dining areas, and balconies, our 4" x 4" (102 x 102 mm) Square Post System can be fabricated to your custom layout. Or you can choose to buy just the components and fabricate your own at the job site.

CRL 4" x 4" Square Posts and Surface Mount Post Kits

- 4" (102 mm) Square Posts Designed for Use in Our 4" x 4" (102 x 102 mm) Square Windscreen Post System
- Use for Centers, Ends or 90 Degree Corners
- Available in Three Different Heights

CRL 4" x 4" (102 x 102 mm) Square Aluminum Post Kits come complete with Base Plate (BP6), Moisture Barrier Gasket (BPG3BL), Base Plate Screws (BPS112), Stainless Steel Washers (WSHR1), Color Match Bolt Cover Buttons (BTN1), and Post Cap (PC4). See page 491B for Anchors or Lag Bolts for mounting to the substrate. Post Kits are available in your choice of three heights and seven attractive colors, plus mill aluminum. Custom heights and colors are also available. AWS Rail Kits sold separately (see page 493B).

- Kits Come Complete With Post, Top Cap, Base Plate, Moisture Barrier Gasket, Screws, Stainless Washers, and Bolt Cover Buttons

.120" (3 mm) Wall Thickness

4" (102 mm)

4" (102 mm)
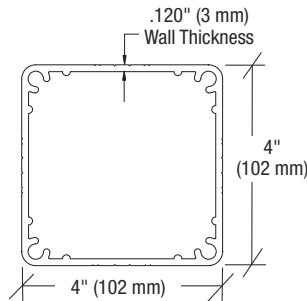
POST KITS INCLUDE:

AWS Rail Kit Sold Separately (see page 493B)

4" X 4" (102 X 102 MM) POST ONLY

CAT. NO.*	DESCRIPTION	HEIGHT/LENGTH
4P36	36" Post	37" (940 mm)
4P42	42" Post	43" (1092 mm)
4P48	48" Post	49" (1244 mm)
4P241	20'-1" Stock Length	241" (6.12 m)#

Minimum order: 1 each. * Specify color when ordering.
Must ship common carrier.

4" X 4" (102 X 102 MM) POST KITS

CAT. NO.*	DESCRIPTION	HEIGHT
4P36K	36" Post Kit	37" (940 mm)
4P42K	42" Post Kit	43" (1092 mm)
4P48K	48" Post Kit	49" (1244 mm)

Minimum order: 1 each. * Specify color when ordering.

STANDARD COLORS

Sky White Gloss	Oyster White Gloss	Agate Gray Gloss	Beige Gray Gloss	Black Matte	Bronze Matte	Silver Metallic

Colors shown are representative only, and may vary slightly from actual gloss, color, and texture. If color match is critical, please contact Technical Sales for additional information.

Additional Color Options - CRL has over 250 quick turn custom color options with the ability to color match as well.

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492B

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From Anywhere in the U.S. or Canada

CRL

CRL AWS Rail Kits

- For Use With Our 4" x 4" (102 x 102 mm) Square Windscreen Posts
- Forms Side Channel to Accommodate 1/4" to 3/8" (6 to 10 mm) Tempered Glazing
- Accommodates 1/2" (12 mm) Glass Wet Glazed

1-5/16" (33 mm)

1" (25 mm)

Top View

Anchor Hole

AWS Rail Kit
4" x 4" (102 x 102 mm) Square Post Surface Mount Base Plate

USE MONOLITHIC TEMPERED GLASS

AWS Rail Kits are used to form the side rails on our 4" x 4" (102 x 102 mm) Square Posts. Available in seven colors, plus mill aluminum. Black color vinyl accommodates tempered glass from 1/4" to 3/8" (6 to 10 mm) thick. Order Kits cut in specific lengths or by the stock length so you can cut your own.

CAT. NO. BREC1*

Glazing Channel End Cap
*Specify color when ordering

CRL
US ALUMINUM®
MANUFACTURED IN THE USA

Post Sold Separately (see page 492B)

Included Vinyl is only for use with 1/4" to 3/8" (6 to 10 mm) tempered glazing. 1/2" (12 mm) tempered glass must be wet glazed.

CAT. NO.*	DESCRIPTION	LENGTH
BR36K	Rail Kit and Vinyl	36" (914 mm)
BR48K	Rail Kit and Vinyl	48" (1219 mm)
BR60K	Rail Kit and Vinyl	60" (1524 mm)
BR72K	Rail Kit and Vinyl	72" (1829 mm)
BR194	Rail Without Vinyl	241" (6.12 m)#

Minimum order: 1 each. *Specify color when ordering. See page 492B for color chart.
Must ship common carrier.

CRL 6-1/2" Square Base Plates

- For Use With Our 4" x 4" (102 x 102 mm) Square Posts

CRL
US ALUMINUM®
MANUFACTURED IN THE USA

This Square Base Plate screws into our 4" x 4" (102 x 102 mm) Square Post, and is countersunk to accept four Cat. No. BPS112 Base Plate Screws. Attach to substrate with Concrete Anchors or Lag Bolts (see page 491B). Use Stainless Steel Washers (WSHR1) and Color Match Bolt Cover Buttons (BTN1) to add a finished look. One each Cat. No. BPG3BL Moisture Barrier Gasket is included with each Base Plate.

3/4" (19 mm)

5" (127 mm)

3/4" (19 mm)

6-1/2" (165 mm)

Holes for Anchoring Posts

3/8" (10 mm) Thick

7/16" Dia. (11 mm) Anchoring Holes

6-1/2" (165 mm)
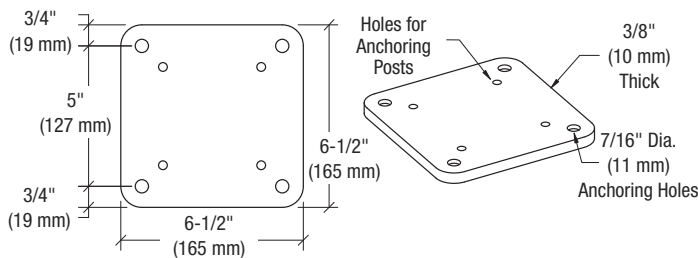
CAT. NO.	COLOR
BP6W	Sky White
BP60W	Oyster White
BP6AGY	Agate Gray
BP6BGY	Beige Gray
BP6BL	Matte Black
BP6BRZ	Matte Bronze
BP6S	Silver Metallic
BP6CRM	Mill Aluminum

Minimum order: 1 each. See page 492B for color chart.

Magni is a registered trademark of the Magni Group, Inc.

CRL Base Plate Screws

- For Use With All Square Base Plates

The CRL Base Plate Screw is designed to secure Base Plates into the screw races of 4" x 4" (102 x 102 mm) Square Posts. Phillips Head Screw fits flush beneath the BP6 Base Plate. AISI 4037 alloy steel with Magni® 550 to protect against corrosion.

4" x 4" (102 x 102 mm) Square Post

BP6 Square Base Plate

BPS112 Screws

CAT. NO.	DESCRIPTION	SIZE
BPS112	Base Plate Screw	#14 x 1-1/2" (38 mm)

Minimum order: 50 each. Must be ordered in increments of 50.

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CRL®
US ALUMINUM

CRL 4" x 4" Standard Post Caps

- Seven Standard Colors, Plus Mill Aluminum
- Custom Powder Coated Finishes Also Available
- Easy to Install

CAT. NO.	COLOR
PC4W	Sky White
PC40W	Oyster White
PC4AGY	Agate Gray
PC4BGY	Beige Gray
PC4BL	Matte Black
PC4BRZ	Matte Bronze
PC4S	Silver Metallic
PC4CRM	Mill Aluminum

Minimum order: 1 each.

CRL 4" x 4" (102 x 102 mm) Standard Post Caps are designed to fit our 4" x 4" Square Aluminum Posts. They protect the exposed top edge from weather and debris. Caps install easily with CRL 95CBL Silicone (see page 490B).

STANDARD COLORS

Sky White Gloss	Oyster White Gloss	Agate Gray Gloss	Beige Gray Gloss	Black Matte	Bronze Matte	Silver Metallic

Colors shown are representative only, and may vary slightly from actual gloss, color, and texture. If color match is critical, please contact Technical Sales for additional information.

Additional Color Options - CRL has over 250 quick turn custom color options with the ability to color match as well.

CRL 4" x 4" Sirius Series Decorative Post Caps

- For Use With CRL's 4" x 4" (102 x 102 mm) Square Aluminum Post Kits
- Seven Standard Colors, Plus Mill Aluminum
- Custom Powder Coated Finishes Also Available
- Easy to Install

CAT. NO.	COLOR
PCS1W	Sky White
PCS10W	Oyster White
PCS1AGY	Agate Gray
PCS1BGY	Beige Gray
PCS1BL	Matte Black
PCS1BRZ	Matte Bronze
PCS1S	Silver Metallic
PCS1CRM	Mill Aluminum

Minimum order: 1 each.

CRL's Sirius Series Post Caps are manufactured from powder coated cast aluminum components, and are designed to surface mount to the top of our standard 4" x 4" (102 x 102 mm) Square Post Kits. These surface mount caps offer a decorative look as they protect the top of the post from weather and debris. Caps install easily with self tapping/drilling screws and CRL 95CBL Silicone (see page 490B).

CRL 4" x 4" Titan Series Decorative Post Caps

- For Use With CRL's 4" x 4" (102 x 102 mm) Square Aluminum Post Kits
- Seven Standard Colors, Plus Mill Aluminum
- Custom Powder Coated Finishes Also Available
- Easy to Install

CAT. NO.	COLOR
PCS2W	Sky White
PCS20W	Oyster White
PCS2AGY	Agate Gray
PCS2BGY	Beige Gray
PCS2BL	Matte Black
PCS2BRZ	Matte Bronze
PCS2S	Silver Metallic
PCS2CRM	Mill Aluminum

Minimum order: 1 each.

CRL's Titan Series Post Caps are manufactured from powder coated cast aluminum components and are designed to surface mount to the top of our standard 4" x 4" (102 x 102 mm) Square Post Kits. These surface mount caps offer a decorative look as they protect the top of the post from weather and debris. Caps install easily with self tapping/drilling screws and CRL 95CBL Silicone (see page 490B).

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CRL US ALUMINUM

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CRL
US ALUMINUM

CRL Stainless Steel Clad Windscreen Systems

- Great for Barriers, Glass Fencing, Windscreens, and Guard Rail Applications When a Hand Rail is Incorporated for Fall Protection

- Low Maintenance 304 Grade Cladded Stainless Steel Construction, Two Standard Stainless Steel Finishes Available

- Designed for Interior and Exterior Core Mount and Surface Mount Applications

- Accepts 1/4" to 1/2" (6 to 12 mm) Tempered Monolithic Glass and 9/16" (13.52 mm) Laminated Tempered Glass

Stainless Steel Clad Windscreen Systems can be configured using combinations of 180 Degree Center Posts, 135 Degree Center Posts, 90 Degree Corner Posts, 3-Way Posts, and End Posts. CRL Railing Technical Sales will assist you with plans for the Windscreen System that is right for any application.

USE MONOLITHIC TEMPERED GLASS

or

USE LAMINATED TEMPERED GLASS

Stainless Steel Clad Aluminum Post Configurations

End Post	180 Degree Center Post	135 Degree Center Post	90 Degree Corner Post	3-Way Post

End Post
2-3/4" (70 mm)
2-7/8" (73 mm)

180 Degree Center Post
2-3/4" (70 mm)
2-7/8" (73 mm)

135 Degree Center Post
2-9/16" (65 mm)
2-7/8" (73 mm)
3-3/4" (95 mm)

90 Degree Corner Post
2-7/8" (73 mm)
2-7/8" (73 mm)
5-5/16" (135 mm)
5-5/16" (135 mm)

3-Way Post
7-13/16" (198 mm)
2-7/8" (73 mm)
2-7/8" (73 mm)
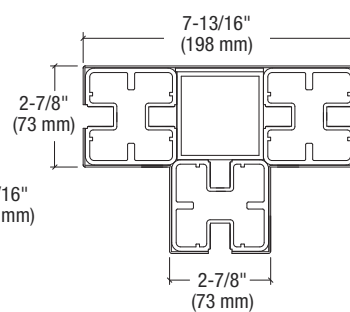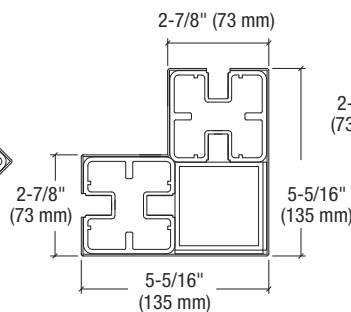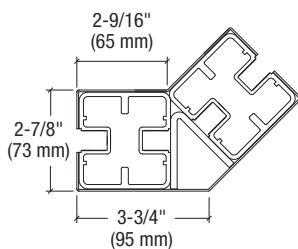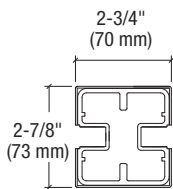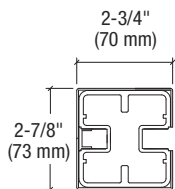
Major Components

Base Shoe With Cladding	Vertical Posts	Surface Mount Post Stanchions	Core Mount Post Stanchions	Post Top Caps
See Pages 143B and 162B	See Pages 497B-498B	See Page 499B	See Page 499B	See Page 499B

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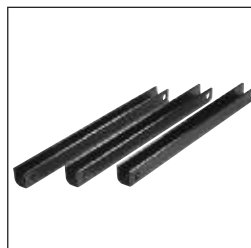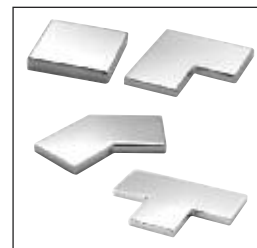
CRL US ALUMINUM

CRL 180 Degree Center and End Post Kits

- Aluminum Post With 304 Grade Stainless Steel Cladding and Top Cap
- 316 Grade Stainless Cladding Available Upon Request
- Custom Powder Coated Finishes Available Upon Request
- Accepts 1/4" to 1/2" (6 to 12 mm) Tempered Monolithic Glass and 9/16" (13.52 mm) Laminated Tempered Glass
- Post Heights Up to 72" (1.8 m) Tall
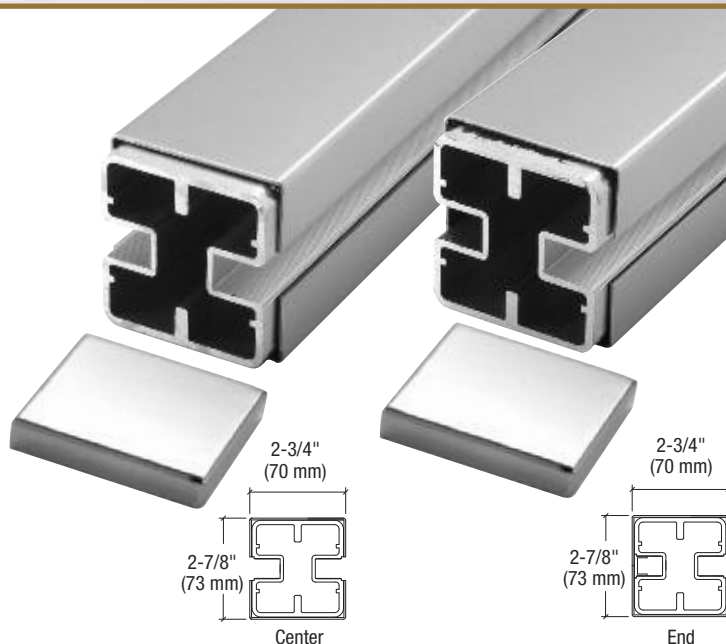
CRL 180 Degree Center and End Post Kits are designed for interior and exterior applications and can be ordered in heights of up to 72" (1.8 m). Two architectural cladded finishes are available in polished or brushed 304 grade stainless steel. Surface mount and core mounting options are also available. **NOTE:** Maximum 48" (1.2 m) on center post spacing is standard for 72" (1.8 m) tall posts.

USE MONOLITHIC TEMPERED GLASS
or
USE LAMINATED TEMPERED GLASS

2-3/4" (70 mm)   2-3/4" (70 mm)
2-7/8" (73 mm)   2-7/8" (73 mm)
Center   End

180 DEGREE CENTER POST KITS*	
CAT. NO.	FINISH
BPC1BSC	Brushed Stainless
BPC1PSC	Polished Stainless

Minimum order: 1 each. *Must specify post height at time of order.

END POST KITS*	
CAT. NO.	FINISH
BPE1BSC	Brushed Stainless
BPE1PSC	Polished Stainless

Minimum order: 1 each. *Must specify post height at time of order.

CRL 90 Degree Corner Post Kits

- Aluminum Post With 304 Grade Stainless Steel Cladding and Top Cap
- 316 Grade Stainless Cladding Available Upon Request
- Custom Powder Coated Finishes Available Upon Request
- Accepts 1/4" to 1/2" (6 to 12 mm) Tempered Monolithic Glass and 9/16" (13.52 mm) Laminated Tempered Glass
- Post Heights Up to 72" (1.8 m) Tall

CRL 90 Degree Corner Post Kits are designed for interior and exterior applications and can be ordered in heights of up to 72" (1.8 m). Two architectural cladded finishes are available in polished or brushed 304 grade stainless steel. Surface mount and core mount options are also available. **NOTE:** Maximum 48" (1.2 m) on center post spacing is standard for 72" (1.8 m) tall posts.

USE MONOLITHIC TEMPERED GLASS
or
USE LAMINATED TEMPERED GLASS

2-7/8" (73 mm)
5-5/16" (135 mm)
2-7/8" (73 mm)
5-5/16" (135 mm)

90 DEGREE CORNER POST KITS*	
CAT. NO.	FINISH
BPL1BSC	Brushed Stainless
BPL1PSC	Polished Stainless

Minimum order: 1 each. *Must specify post height at time of order.

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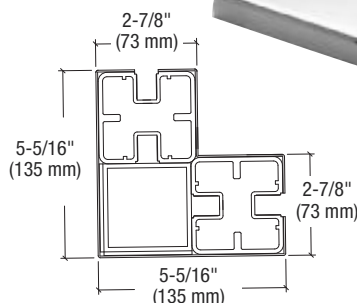
CRL US ALUMINUM

CRL 135 Degree Center Post Kits

- Aluminum Post With 304 Grade Stainless Steel Cladding and Top Cap
- 316 Grade Stainless Cladding Available Upon Request
- Custom Powder Coated Finishes Available Upon Request
- Accepts 1/4" to 1/2" (6 to 12 mm) Tempered Monolithic Glass and 9/16" (13.52 mm) Laminated Tempered Glass
- Post Heights Up to 72" (1.8 m) Tall

CRL 135 Degree Center Post Kits are designed for interior and exterior applications and can be ordered in heights of up to 72" (1.8 m). Two architectural cladded finishes are available in polished or brushed 304 grade stainless steel. Surface mount and core mount options are also available. **NOTE:** Maximum 48" (1.2 m) on center post spacing is standard for 72" (1.8 m) tall posts.

USE MONOLITHIC TEMPERED GLASS

or

USE LAMINATED TEMPERED GLASS

2-9/16" (65 mm)
2-7/8" (73 mm)
3-3/4" (95 mm)
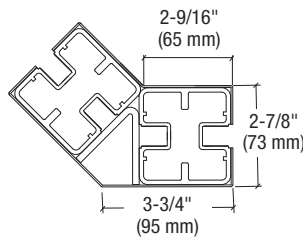
135 DEGREE CENTER POST KITS*

CAT. NO.	FINISH
BPA1BSC	Brushed Stainless
BPA1PSC	Polished Stainless

Minimum order: 1 each. *Must specify post height at time of order.

CRL 3-Way Post Kits

- Aluminum Post With 304 Grade Stainless Steel Cladding and Top Cap
- 316 Grade Stainless Cladding Available Upon Request
- Custom Powder Coated Finishes Available Upon Request
- Accepts 1/4" to 1/2" (6 to 12 mm) Tempered Monolithic Glass and 9/16" (13.52 mm) Laminated Tempered Glass
- Post Heights Up to 72" (1.8 m) Tall

CRL 3-Way Post Kits are designed for interior and exterior applications and can be ordered in heights of up to 72" (1.8 m). Two architectural cladded finishes are available in polished or brushed 304 grade stainless steel. Surface mount and core mounting options are also available. **NOTE:** Maximum 48" (1.2 m) on center post spacing is standard for 72" (1.8 m) tall posts.

USE MONOLITHIC TEMPERED GLASS

or

USE LAMINATED TEMPERED GLASS

2-7/8" (73 mm)
2-7/8" (73 mm)
7-13/16" (198 mm)
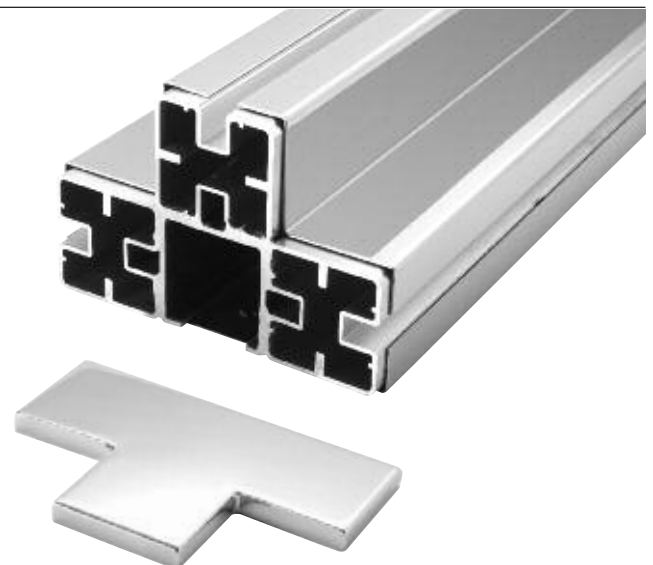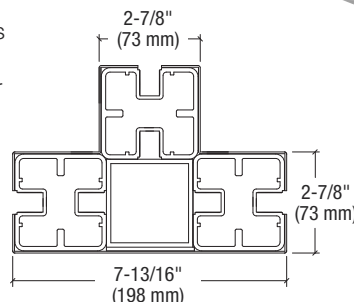
3-WAY POST KITS*

CAT. NO.	FINISH
BPT1BSC	Brushed Stainless
BPT1PSC	Polished Stainless

Minimum order: 1 each. *Must specify post height at time of order.

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US ALUMINUM

CRL Steel Post Stanchions

- Designed for Mounting on Steel or Concrete Surfaces
- Galvanized 50 Grade Steel Finish
- Custom Heights Also Available

- Brushed and Polished Stainless Steel Base Plates Available

Surface Mount Stanchions are designed for use with CRL's Stainless Steel Clad Post Kits and Cladded Base Shoe. Stanchions are designed to attach to concrete and steel substrates. Use CRL 3/8" (10 mm) tall Drain Blocks under the Base Shoe for proper alignment during installation for a finished look.

CRL also offers custom fabrication for projects that require custom sizes or angles for those complex job site conditions. For additional product information, visit our web site at **crlaurence.com**.

3/8" (10 mm) Thick Base Plates

BPEST30	BPCST30	BPLST30	BPAST30	BPTST30	PST6
End Post Stanchion	Center Post Stanchion	90 Degree Corner Post Stanchion	135 Degree Center Post Stanchion	3-Way Post Stanchion	Core Mount Post Stanchion
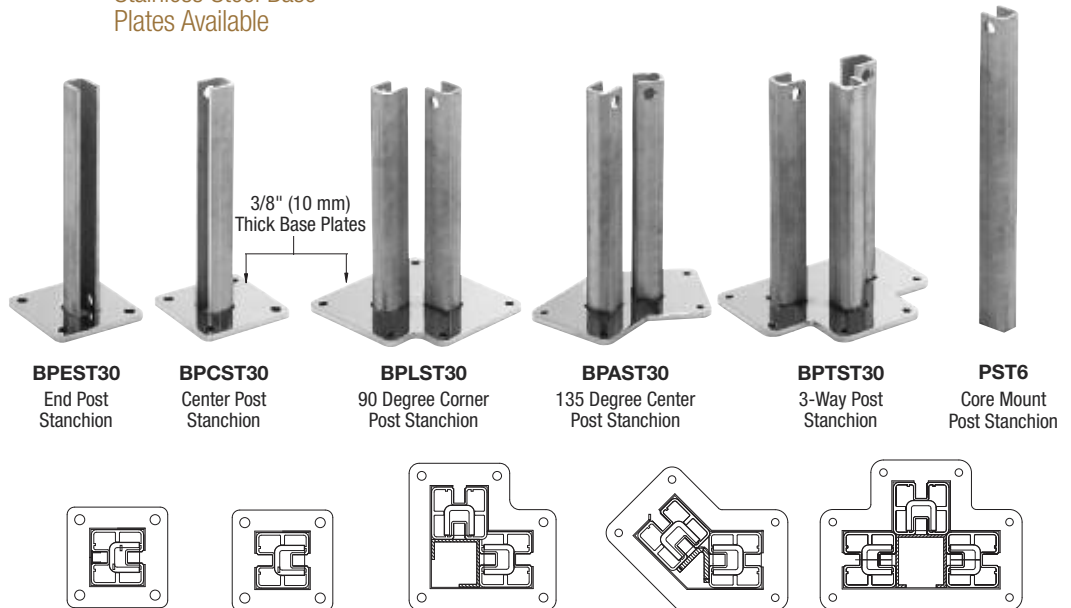
3/8" (10 mm) Drain Blocks are also available for shimming the base shoe to the same height as the base plate stanchion thickness. See page 186B for more information.
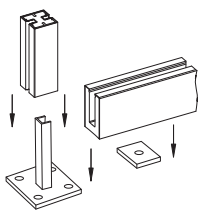
STEEL STANCHIONS FOR POST HEIGHTS UP TO 72" (1.8 M)

BRUSHED STAINLESS CAT. NO.	POLISHED STAINLESS CAT. NO.	STANCHION HEIGHT	FOR USE WITH
BPEST30BS	BPEST30PS	30" (762 mm)	End Post
BPCST30BS	BPCST30PS	30" (762 mm)	Center Post
BPLST30BS	BPLST30PS	30" (762 mm)	90 Degree Corner Post
BPAST30BS	BPAST30PS	30" (762 mm)	135 Degree Center Post
BPTST30BS	BPTST30PS	30" (762 mm)	3-Way Post
PST6	-----	42" (1067 mm)	Any Clad Post

Minimum order: 1 each.

CRL Post Replacement Caps

- Easily Installed With Silicone Sealant
- 304 Grade Stainless Steel Available in Two Architectural Finishes
- 316 Grade Stainless Steel Available Upon Request
- Powder Coated Finishes Are Available

CRL Post Replacement Caps are designed to easily slip over the post extrusion. Use Cat. No. 95CBL Silicone (see page 490B) to secure and fasten the Caps to Posts. Brushed and polished stainless steel finishes available from stock, with custom powder coated finishes available upon request. Standard Cap height is 1/2" (13 mm).

CAT. NO. BPEC
End and 180 Degree Center Post Cap
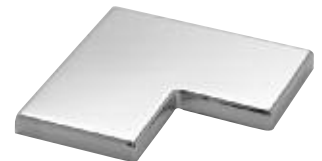
CAT. NO. BPLC
90 Degree Corner Post Cap

CAT. NO. BPAC
135 Degree Center Post Cap

CAT. NO. BPTC
3-Way Post Cap

BARRIER POST REPLACEMENT CAPS

BRUSHED STAINLESS CAT. NO.	POLISHED STAINLESS CAT. NO.	DESCRIPTION
BPECBS1	BPECPS1	End and 180 Degree Center Post Cap
BPLCBS1	BPLCPS1	90 Degree Corner Post Cap
BPACBS1	BPACPS1	135 Degree Center Post Cap
BPTCBS1	BPTCPS1	3-Way Post Cap

Minimum order: 1 each.

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TOLL Phone: (800) 421-6144
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CRL SECURITY BARRIER SYSTEMS

CRL Security Barrier Systems

- Each Unit Custom Fabricated to Exact Requirements
- Systems for Interior or Exterior Commercial or Institutional Applications
- Designed to Work With Many Different Types of Glazing
- Surface Mount or Core Mount Applications
- Two Standard Architectural Finishes
- Custom Powder Coated Finishes Also Available

CRL can custom design Security Barrier Systems that are ideal for airport terminals, arenas, convention centers, hotels, schools, and many other areas that have security concerns.

Barriers are typically fabricated using a combination of our Heavy Glass Aluminum Base Shoe and rectangular Aluminum Posts that can be cladded in 304 grade brushed or polished stainless, or powder coated in a variety of custom colors that can adapt to a wide variety of conditions.

1/2" (12 mm) tempered or 9/16" (13.52 mm) laminated tempered glazing is recommended, but not supplied by CRL. Glass sizing assistance is available. Units can be shipped knocked down, or fully assembled in a crate.

Security Personnel Station

Inspection and Wanding Lane

Post Detail

2-3/4" (70 mm)
2-7/8" (73 mm)

- Stainless Cladding
- Aluminum Post
- Glazing Pocket

USE MONOLITHIC TEMPERED GLASS

or

USE LAMINATED TEMPERED GLASS

Base Shoe Detail
8B Series shown for 1/2" (12 mm) Glazing

2-5/8" (67 mm)
1/2" (12 mm) Tempered Glazing
Safety Seal Gasket
CRL TAPER-LOC® System (see pages 104B-126B)
8B Base Shoe with Applied Cladding
4-3/16" (106 mm)

Optional Hand Railing Brackets can be glass or post mounted (see pages 362B-370B)

End Post   Base Shoe   Center Post   End Post

Gate Systems

'All-Glass' Soft-Closing **NEW!** Gate Hinges

ARS Aluminum Railing System Gates

AWS Aluminum Windscreen System Gates

Blumcraft® Gate Systems

Cap Railing Gate Systems

Custom Gate Systems

Electric Strikes and Accessories

Gate Hinges and Latches

Glass Lever Lock Housings

Hydraulic Gate Closer **NEW!**

Jackson Panic Exit Devices

Lever Handles

Locks and Latches

Platinum Series Fully Framed Architectural Gates **NEW!**

Polaris Series Hinges **NEW!**

Premium Formed Custom Stainless Steel Gates

RIM Panics and Accessories

Swinging Glass Gate Systems

Vernon Series Hinges **NEW!**

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These products and more can be found in this catalog section. On the top and bottom of each page are direct search instructions for viewing them on our web site. You can also enter the catalog number into the Search Box for a direct link to the product and **More Choices** in that category. To view **More Choices**, simply click on the red and white icon to be taken to a larger selection.

MORE CHOICES
crlaurence.com

CRL GRS Glass Gate Systems

PAGES 501B-507B

- Cap Railing Swinging Gate Systems
- Models With Glass Ready to Install
- Glass Wall and Pool Fencing Gate Systems

CRL offers an array of Gate Systems and hardware to help protect areas such as interior office spaces, pool surrounds, decks, patios, and outdoor dining areas. Accompanying security options range from keyed locking devices to simple latching mechanisms. In some cases, automated opening and closing devices can be incorporated into the design as well. Systems are available for mounting to glass, walls, or posts, in a choice of several configurations.

CRL Glass Gate Hardware

PAGES 508B-531B

- Dry Glaze Top/Bottom Patch Gate Rails
- Full Bottom Rail
- Stainless Steel Post Kits
- Gate Hinges
- Gate Hardware Pivots, Fittings, and Closers
- Locks and Latches

Top and Bottom Patch Gate Rails are available in polished and brushed stainless finishes, with matching sidelite rails available. Rails are supplied with our standard Kwik-Adjust® Pivot Alignment System. Closer Arms and Floor or Overhead Pivots are ordered separately. Stainless Steel Post Kits for Gates are designed for use with hinges or patch hardware. An assortment of Pivots, Fittings, Closers, Latches, and Hinges provide options for various gate designs.

CRL ARS and AWS Gate Systems

PAGES 532B-537B

- Aluminum Railing Gate System
- Aluminum Windscreen Custom Gate System
- Fully Framed Architectural Gate System
- Premium Formed Stainless Steel Gate System

Let CRL Railing Technical Sales assist you in designing a gate system based on either our ARS (Aluminum Railing System) or AWS (Aluminum Windscreen System). The two systems offer distinctly different styles to choose from. The innovative Platinum Series Fully Framed Architectural Gate System is yet another choice. These gates are completely designed, engineered, and manufactured by CRL. Finally, please take a moment to review our Premium Formed Stainless Steel Gate System. It is ideal for high end pool fencing or barrier applications. Gate hinge and lock options provide flexibility of design

CRL ARS and AWS Gate Hardware

PAGES 538B-548B

- Hinges and Latches
- Hydraulic Gate Hinge-Closers
- Jackson® Panic Exit Devices
- Electric Strikes and Housings

Hinges, Latches, Hydraulic Gate Hinge-Closers, and Security Locks are just some of the hardware items used to complete our ARS (Aluminum Railing System) and AWS (Aluminum Windscreen System) Gates. Popular names such as Tru-Close®, Adams Rite®, Jackson®, and Lokk-Latch® bring name recognition to many of the component hardware items.

Tru-Close and Lokk-Latch are registered trademarks of D&D Group PTY Ltd.
Adams Rite is a registered trademark of Adams Rite Manufacturing Co., an ASSA ABLOY Group Company.

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CRL US ALUMINUM

CRL GATE SYSTEMS

CRL Gate Systems and Hardware

CRL Makes Gates for Our Major Railing Systems:

- GRS Cap Rail Swinging Gates
- Platinum Series Architectural Gates
- Formed Stainless Steel Gates
- Aluminum Railing System Gates
- Aluminum Windscreen System Gates
- Both Interior and Exterior Applications

CRL has the experience and resources to create Gate Systems to your exact requirements that are both attractive in appearance and precise in function. These sturdy systems lend security to pool surrounds, decks, patios, outdoor dining areas, and interior office spaces.

Our Gates are designed to be an integral part of our railing and windscreen systems, allowing a continuity of appearance throughout the project. Colors and finish choices are numerous, and infill options can range from glass to pickets, or even laser cut panels.

Security options range from keyed locking devices to simple latching mechanisms, and automated opening and closing devices can be incorporated into the design.

On these next few pages you will see some of the Gate System options available to you from CRL. Once you determine the right gate for your railing, glass pool surround or windscreen project, we invite you to contact our CRL Railing Technical Sales Staff. We can assist with the design, ordering, and installation process. **NOTE:** Other Gate System options and accessories available at **crlaurence.com/gate-hardware**.
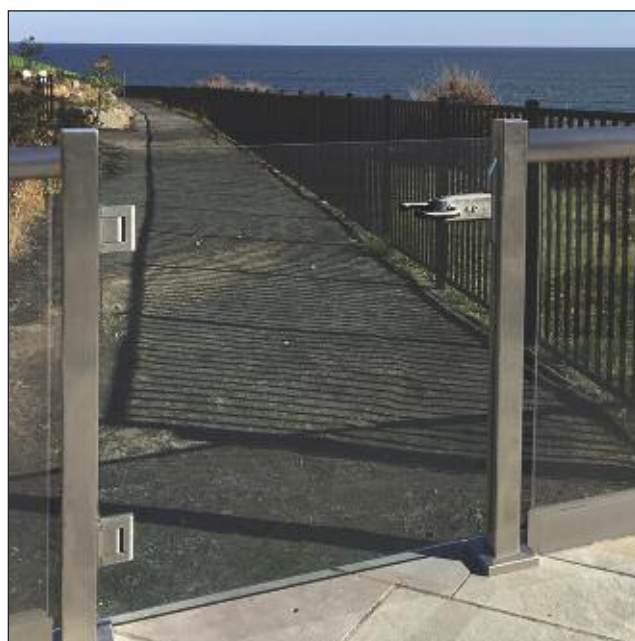
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gate-hardware   Search   **501B**
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TOLL Phone: (800) 421-6144
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From Anywhere in the U.S. or Canada

CRL GRS 1202 Series
Swinging Glass Gate Systems

- 3/8" or 1/2" (10 or 12 mm) Monolithic Tempered Glass or 9/16" (13.52 mm) Laminated Glass Included
- Unique Concealed Closer Design Within Vertical Post; No Floor Closer Required
- Self-Closing Double Acting No Hold Open Feature Standard
- Vertical Round Door Edge Which Prevents Finger Pinch
- Frameless Glass Design With Optional Cap Rail and Bottoms
- Wall, Post, and Glass-to-Glass Mounting Options
- Standard Sizes Available or Custom Made to Your Specifications
- 304 Grade Stainless Steel

Our GRS 1202 Series Swinging Gates are designed for commercial or residential use. The gates are an offshoot of our Wedge-Lock® Door Rail System, and can be combined with our GRS Cap Rails.

Our engineers developed a unique In-Rail Closing Mechanism which is concealed in the vertical post, eliminating the need for large closers in the floor. The mechanism always returns the Gate to the closed position, and the closing speed is adjustable.

MONOLITHIC TEMPERED GLASS INCLUDED

or

LAMINATED TEMPERED GLASS INCLUDED

NOTE: All Swinging Gates are custom fabricated to your specifications. Minimum Gate height is 40" (1016 mm), and maximum Gate height is 72" (1829 mm). Most orders can be fabricated in five to ten business days at our Los Angeles, California manufacturing facility. Contact Railing Technical Sales at (800) 421-6144 in the U.S., (877) 421-6144 from Canada, or (323) 588-1281 International, and ask for Ext. 7730. You can also send email to **railings@crlaurence.com**.

Wall Mounted Type "W", Post Mounted Type "P", and Glass-to-Glass Mounted Type "G" Gates

These are the most common configurations of Swinging Gates.

NO FLOOR CLOSER REQUIRED

ARCHITECTURAL RECORD WINNER
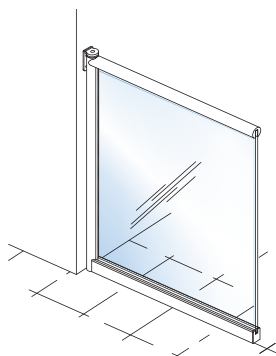
CRL GRS 1202 WALL MOUNT TYPE "W1" GATE
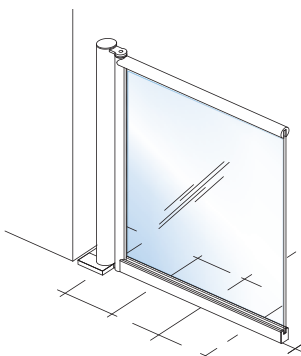
CRL GRS 1202 POST MOUNT TYPE "P1" GATE
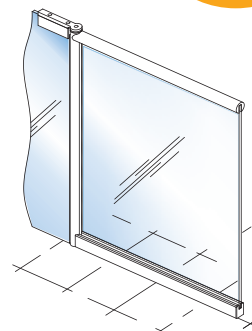
CRL GRS 1202 GLASS MOUNT TYPE "G1" GATE

Standard Configurations Available

Note: Post Mount shown. Wall and Glass Mount options also available.
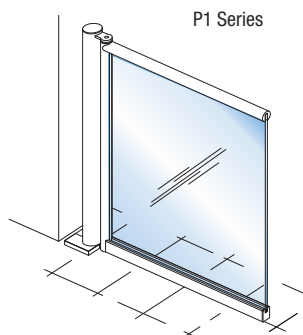
P1 Series — Cap Rail and Full Bottom Rail
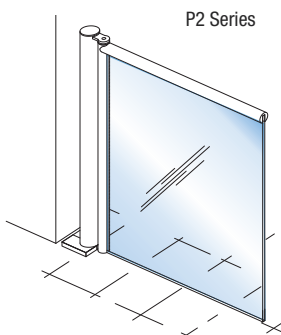
P2 Series — Cap Rail and Open Bottom
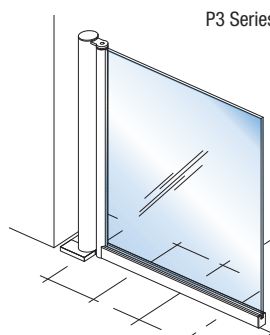
P3 Series — Open Top and Full Bottom Rail
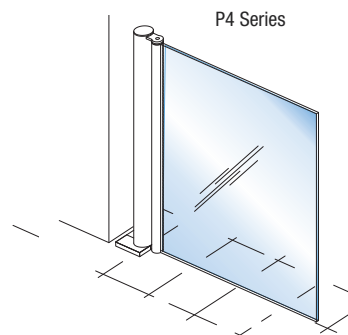
P4 Series — Top and Bottom Open

NOTE: Gate applications require the no-hold open model closer, and the gate opening angle must not exceed 150 degrees.

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CRL US ALUMINUM

CRL GRS 1202 Series Swinging Glass Gate Systems

- 3/8" or 1/2" (10 or 12 mm) Monolithic Tempered Glass or 9/16" (13.52 mm) Laminated Tempered Glass Included
- Includes Top Cap Rail and Low Profile Bottom Rail
- Wall, Post, and Glass Mounting Options Available
- Includes 10 Degrees of Gate Centering Adjustment for Alignment
- 304 Grade Brushed and Polished Stainless Steel, Custom Finishes Available Upon Request
- Optional Panic Exit Devices and Center Lock Housings Available

MONOLITHIC TEMPERED GLASS INCLUDED

or

LAMINATED TEMPERED GLASS INCLUDED

ARCHITECTURAL RECORD
WINNER

CRL GRS 1202 Series Type "P1" Post Mount Swinging Glass Gate Kit

- Glass Included With Kit
- Standard and Custom Sizes Available

42" (1067 mm)
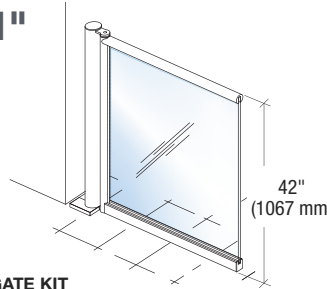
STANDARD TYPE "P1" GATE KIT INCLUDES:

- 3" (76 mm) Diameter Stainless Steel Capped Hinge Post With Base Plate and Two Piece Cover
- Stainless Steel Post Mount Gate Pivot Bar
- 2-1/16" (52 mm) Diameter Stainless Steel Clad Pivot Post With In-Rail Closer and Floor Mount Receiver
- GR20 Series 2" (51 mm) Diameter Stainless Steel Cap Rail
- Stainless Steel Clad DR2S Low Profile Gate Bottom Rail (No Lock)
- Glass for Gate

CRL GRS 1202 TYPE "P1" POST MOUNT SWINGING GATE KIT

CAT. NO.	FINISH	NET SIZE (WIDTH X HEIGHT)	GATE OPENING WIDTH REQUIREMENT	CLEAR OPENING WIDTH*
1202P142BS	Brushed Stainless	35-1/2" x 41-11/16" (902 x 1059 mm)	41-1/4" (1048 mm)	33-11/16" (856 mm)
1202P142PS	Polished Stainless	35-1/2" x 41-11/16" (902 x 1059 mm)	41-1/4" (1048 mm)	33-11/16" (856 mm)

Minimum order: 1 each. *When Gate open at 90 degrees. **NOTE:** Maximum recommended gate size is 40" W x 72" H (1016 x 1829 mm).

CRL GRS 1202 Series Type "W1" Wall Mount Swinging Glass Gate Kit

- Glass Included With Kit
- Standard and Custom Sizes Available

42" (1067 mm)
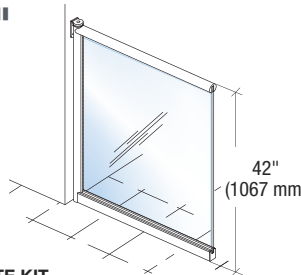
STANDARD TYPE "W1" GATE KIT INCLUDES:

- Stainless Steel Wall Mount Gate Pivot Bar
- 2-1/16" (52 mm) Diameter Stainless Steel Clad Pivot Post With In-Rail Closer and Floor Mount Receiver
- GR20 Series 2" (51 mm) Diameter Stainless Steel Cap Rail
- Stainless Steel Clad DR2S Low Profile Gate Bottom Rail (No Lock)
- Glass for Gate

CRL GRS 1202 TYPE "W1" WALL MOUNT SWINGING GATE KIT

CAT. NO.	FINISH	NET SIZE (WIDTH X HEIGHT)	GATE OPENING WIDTH REQUIREMENT	CLEAR OPENING WIDTH*
1202W142BS	Brushed Stainless	35-1/2" x 41-11/16" (902 x 1059 mm)	36" (914 mm)	33-11/16" (856 mm)
1202W142PS	Polished Stainless	35-1/2" x 41-11/16" (902 x 1059 mm)	36" (914 mm)	33-11/16" (856 mm)

Minimum order: 1 each. *When Gate open at 90 degrees. **NOTE:** Maximum recommended gate size is 40" W x 72" H (1016 x 1829 mm).

CRL GRS 1202 Series Type "G1" Glass-to-Glass Mount Swinging Glass Gate Kit

- Glass Included With Kit
- Standard and Custom Sizes Available

42" (1067 mm)
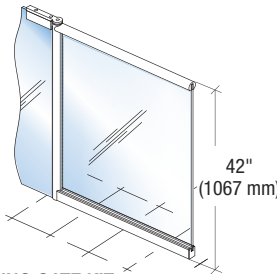
STANDARD TYPE "G1" GATE KIT INCLUDES:

- Stainless Steel Glass-to-Glass Top Patch With Gate Pivot Bar
- 2-1/16" (52 mm) Diameter Stainless Steel Clad Pivot Post With In-Rail Closer and Floor Mount Receiver
- GR20 Series 2" (51 mm) Diameter Stainless Steel Cap Rail
- Stainless Steel Clad DR2S Low Profile Gate Bottom Rail (No Lock)
- Glass for Gate

CRL GRS 1202 TYPE "G1" GLASS-TO-GLASS MOUNT SWINGING GATE KIT

CAT. NO.	FINISH	NET SIZE (WIDTH X HEIGHT)	GATE OPENING WIDTH REQUIREMENT	CLEAR OPENING WIDTH*
1202G142BS	Brushed Stainless	35-1/2" x 41-11/16" (902 x 1059 mm)	36" (914 mm)	33-11/16" (856 mm)
1202G142PS	Polished Stainless	35-1/2" x 41-11/16" (902 x 1059 mm)	36" (914 mm)	33-11/16" (856 mm)

Minimum order: 1 each. *When Gate open at 90 degrees. **NOTE:** Maximum recommended gate size is 40" W x 72" H (1016 x 1829 mm).

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CRL US ALUMINUM

CRL GRS 1202 Series
Swinging Glass Gate Systems

- 3/8" or 1/2" (10 or 12 mm) Monolithic Tempered Glass or 9/16" (13.52 mm) Laminated Tempered Glass Included
- No Top Cap or Bottom Rail
- Wall, Post, and Glass Mounting Options Available
- Includes 10 Degrees of Gate Centering Adjustment for Alignment
- 304 Grade Brushed and Polished Stainless Steel, Custom Finishes Available Upon Request
- Optional Panic Exit Devices and Center Lock Housings Available

US ALUMINUM MANUFACTURED IN THE USA

MONOLITHIC TEMPERED GLASS INCLUDED

or

LAMINATED TEMPERED GLASS INCLUDED

ARCHITECTURAL RECORD **WINNER**

CRL GRS 1202 Series Type "P4" Post Mount Swinging Glass Gate Kit

- Glass Included With Kit
- Standard and Custom Sizes Available

42" (1067 mm)
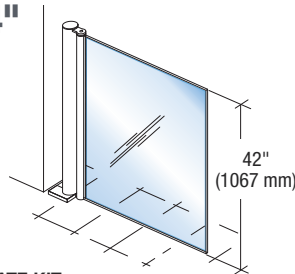
STANDARD TYPE "P4" GATE KIT INCLUDES:
- 3" (76 mm) Diameter Capped Vertical Hinge Post With Base Plate and Two Piece Cover
- Stainless Steel Post Mount Gate Pivot Bar
- 2-1/16" (52 mm) Diameter Stainless Steel Clad Pivot Post With In-Rail Closer and Floor Mount Receiver
- Glass for Gate

CRL GRS 1202 TYPE "P4" POST MOUNT SWINGING GATE KIT

CAT. NO.	FINISH	NET SIZE (WIDTH X HEIGHT)	GATE OPENING WIDTH REQUIREMENT	CLEAR OPENING WIDTH*
1202P442BS	Brushed Stainless	35-1/2" x 41-11/16" (902 x 1059 mm)	41-1/4" (1048 mm)	33-11/16" (856 mm)
1202P442PS	Polished Stainless	35-1/2" x 41-11/16" (902 x 1059 mm)	41-1/4" (1048 mm)	33-11/16" (856 mm)

Minimum order: 1 each. *When Gate open at 90 degrees. **NOTE:** Maximum recommended gate size is 40" W x 72" H (1016 x 1829 mm).

CRL GRS 1202 Series Type "W4" Wall Mount Swinging Glass Gate Kit

- Glass Included With Kit
- Standard and Custom Sizes Available

42" (1067 mm)
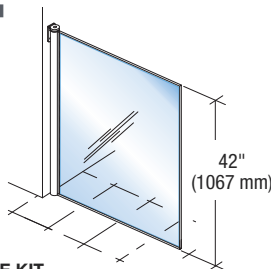
STANDARD TYPE "W4" GATE KIT INCLUDES:
- Stainless Steel Wall Mount Gate Pivot Bar
- 2-1/16" (52 mm) Diameter Stainless Steel Clad Pivot Post With In-Rail Closer and Floor Mount Receiver
- Glass for Gate

CRL GRS 1202 TYPE "W4" WALL MOUNT SWINGING GATE KIT

CAT. NO.	FINISH	NET SIZE (WIDTH X HEIGHT)	GATE OPENING WIDTH REQUIREMENT	CLEAR OPENING WIDTH*
1202W442BS	Brushed Stainless	35-1/2" x 41-11/16" (902 x 1059 mm)	36" (914 mm)	33-11/16" (856 mm)
1202W442PS	Polished Stainless	35-1/2" x 41-11/16" (902 x 1059 mm)	36" (914 mm)	33-11/16" (856 mm)

Minimum order: 1 each. *When Gate open at 90 degrees. **NOTE:** Maximum recommended gate size is 40" W x 72" H (1016 x 1829 mm).

CRL GRS 1202 Series Type "G4" Glass-to-Glass Mount Swinging Glass Gate Kit

- Glass Included With Kit
- Standard and Custom Sizes Available

42" (1067 mm)
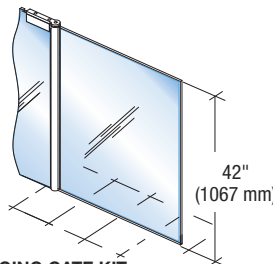
STANDARD TYPE "G4" GATE KIT INCLUDES:
- Stainless Steel Glass-to-Glass Top Patch With Gate Pivot Bar
- 2-1/16" (52 mm) Diameter Stainless Steel Clad Pivot Post With In-Rail Closer and Floor Mount Receiver
- Glass for Gate

CRL GRS 1202 TYPE "G4" GLASS-TO-GLASS MOUNT SWINGING GATE KIT

CAT. NO.	FINISH	NET SIZE (WIDTH X HEIGHT)	GATE OPENING WIDTH REQUIREMENT	CLEAR OPENING WIDTH*
1202G442BS	Brushed Stainless	35-1/2" x 41-11/16" (902 x 1059 mm)	36" (914 mm)	33-11/16" (856 mm)
1202G442PS	Polished Stainless	35-1/2" x 41-11/16" (902 x 1059 mm)	36" (914 mm)	33-11/16" (856 mm)

Minimum order: 1 each. *When Gate open at 90 degrees. **NOTE:** Maximum recommended gate size is 40" W x 72" H (1016 x 1829 mm).

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FREE Fax: (800) 262-3299
From Anywhere in the U.S. or Canada

CRL US ALUMINUM

CRL GRS 1202 Series
Swinging Glass Gate Systems

US ALUMINUM
MANUFACTURED IN THE USA

MONOLITHIC TEMPERED GLASS **INCLUDED** or LAMINATED TEMPERED GLASS **INCLUDED**

ARCHITECTURAL RECORD **WINNER**

Use This Menu to Design the Swinging Gate of Your Choice

SELECT GATE STYLE*

Wall Mount	Post Mount	Glass Mount
❑ W1	❑ P1	❑ G1
❑ W2	❑ P2	❑ G2
❑ W3	❑ P3	❑ G3
❑ W4	❑ P4	❑ G4

*See page 502B for Diagrams of Gate Styles

BOTTOM RAIL LOCK OPTIONS

❑ None
❑ Cylinder Both Sides
❑ Cylinder (Outside Only)
❑ Cylinder (Inside Only)
❑ Cylinder/Thumbturn (Outside)
❑ Cylinder/Thumbturn (Inside)
❑ Other _____

CENTER LOCK HOUSINGS

❑ PTH311 Glass Mount Latch Lock
❑ PTH312 Glass Mount Passage Lock
❑ LH Series Glass Mount Latch Housing
❑ MLSP2BS Glass Mount Latch
❑ None

GATE LATCH OPTIONS

❑ MLSP2BS 180 Degree Glass-to-Glass
❑ MLSP3BS 90 Degree Glass-to-Glass
❑ MLSP4BS Wall/Square Post Mount
❑ MLSP5BS Wall/Round Post Mount
❑ None

FINISH

❑ Brushed Stainless (BS)
❑ Polished Stainless (PS)
❑ Powder Coated (PT) RAL# _____
❑ Custom Finish (C) Specify _____

POST MOUNT

❑ Core Mount
❑ Surface Mount with Base Plate
❑ Other _____

GLAZING (INCLUDED)

❑ 3/8" (10 mm) Monolithic Tempered
❑ 1/2" (12 mm) Monolithic Tempered
❑ 9/16" (13.52 mm) Laminated Tempered
❑ Other _____

TOP CAP DIAMETER

❑ 1-1/2" (38 mm) Diameter Top Cap
❑ 2" (51 mm) Diameter Top Cap
❑ No Top Cap
❑ Other _____

BOTTOM RAIL STYLE

❑ 2-5/16" (59 mm) Standard Bottom Rail
❑ No Bottom Rail

POST SIZE

Round Post
❑ 2-1/2" (64 mm) Diameter
❑ 3" (76 mm) Diameter
❑ 4" (102 mm) Diameter

Square Post
❑ 2-1/2" x 2-1/2" (64 mm)
❑ 3" x 3" (76 mm)
❑ 4" x 4" (102 mm)
❑ Other _____

Cover Plate Set Screws
+/- 10 Degree Gate Centering Adjustment Screws
+/- 5/32" (4 mm) In/Out Adjustment Screws
Cat. No. 1202GRC In-Rail Closing Mechanism
+ 5/32" (4 mm) Height Adjustment Screw
+/- 5/32" (4 mm) Width Adjustment Screws
Cat. No. 1202GBPA Floor Anchor
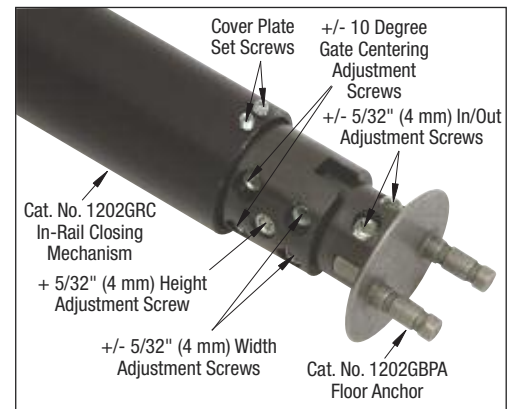
Bottom In-Rail Closing Mechanism with Floor Anchor

CRL GRS 1202 Series Gate Replacement Parts

CAT. NO. 1202WGBS Brushed Stainless
CAT. NO. 1202WGPS Polished Stainless
Wall Mount Gate Top Pivot

CAT. NO. 1202RPBS Brushed Stainless
CAT. NO. 1202RPPS Polished Stainless
Round Post Mount Gate Top Pivot

CAT. NO. 1202GGBS Brushed Stainless
CAT. NO. 1202GGPS Polished Stainless
Glass-to-Glass Top Patch with Gate Top Pivot

CAT. NO. 1202GRC
Replacement Closer

CAT. NO. 1202GBPA
Floor Anchor

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TOLL Phone: (800) 421-6144
FREE Fax: (800) 262-3299
From Anywhere in the U.S. or Canada

CRL US ALUMINUM

CRL GRS Cap Railing Swinging Gate System

US ALUMINUM
MANUFACTURED IN THE USA

- Designed for 1/2", 5/8", or 3/4" (12, 16, or 19 mm) Tempered Glass, and 9/16" or 11/16" (13.52 or 17.52 mm) Laminated Tempered Glass (Not Included)
- Beautiful in Design and Functional in Operation
- Gate Can Be Adjusted In and Out at Both the Top and the Bottom
- Custom Fabricated to Meet Your Design Requirements

USE MONOLITHIC TEMPERED GLASS

or

USE LAMINATED TEMPERED GLASS

We have developed a series of Swinging Gates for commercial or residential use, either alone or with our GRS Glass Rail System. The gates are an offshoot of our Wedge-Lock® Door Rail System, and can be combined with our GRS Cap Rails. The bottom rail can be widened to match the width of an adjacent fixed railing Base Shoe. The upper patch fitting is modified to allow for mounting to a stainless steel bracket, and may also be modified to accommodate a Cap Rail. The top of the Gate pivots on a heavy-duty ball bearing, while the bottom pivots on a floor mounted commercial door closer. The floor closer always returns the Gate to the closed position, and the closing speed is adjustable.

All Swinging Gates are custom fabricated to your specifications. The unit above was mounted to a 4" (102 mm) square steel post set in concrete with machine screws and concealed in the finished wall. This is important, because the tight clearances used in the installation require the Gate to be rigidly mounted.

NOTE: Available in either Wall Mount or Post Mount models by custom order only. Most orders can be fabricated in five to ten business days at our Los Angeles, California manufacturing facility. Contact Railing Technical Sales at (800) 421-6144 in the U.S., (877) 421-6144 from Canada, or (323) 588-1281 International, and ask for Ext. 7730. You can also send e-mail to **railings@crlaurence.com**.

Type W# Wall Mounted and Type P# Post Mounted Gates

These are the most common configurations of Swinging Gates. Find the configuration that best matches your requirements and then use the handy menu on the next page to design the Swinging Gate that's right for you.
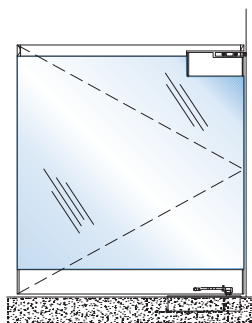
TYPES W1/P1
Wall or post mount top pivot, floor closer, cap rail, top patch, and full bottom rail.
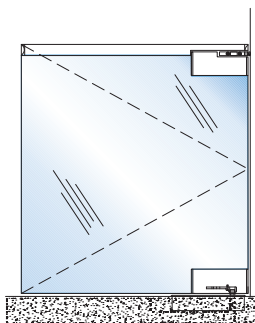
TYPES W2/P2
Wall or post mount top pivot, floor closer, cap rail, top and bottom patch.
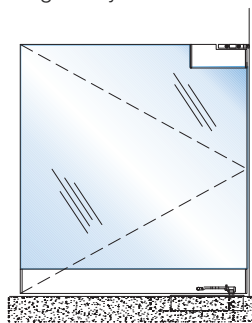
TYPES W3/P3
Wall or post mount top pivot, floor closer, top patch, and full bottom rail.
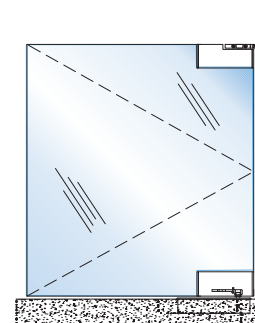
TYPES W4/P4
Wall or post mount top pivot, floor closer, top and bottom patch.
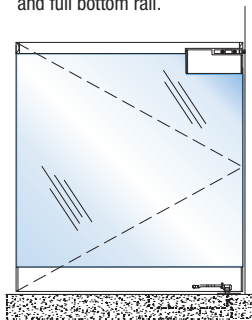
TYPES W5/P5
Wall or post mount top and bottom pivots, cap rail, top patch, and full bottom rail.
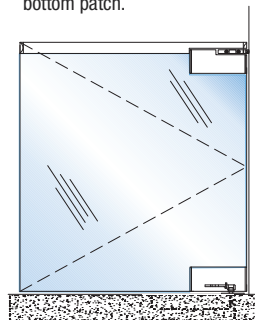
TYPES W6/P6
Wall or post mount top and bottom pivots, cap rail, top and bottom patch.
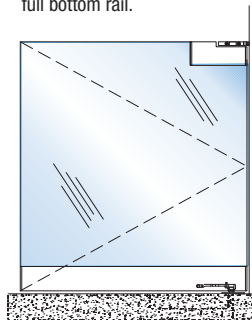
TYPES W7/P7
Wall or post mount top and bottom pivots, top patch, and full bottom rail.
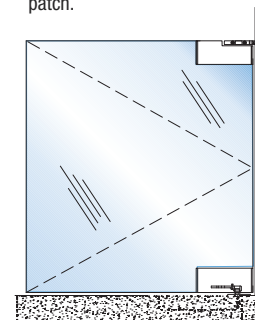
TYPES W8/P8
Wall or post mount top and bottom pivots, top and bottom patch.

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CRL US ALUMINUM

CRL GRS GATE SYSTEMS

CRL GRS Cap Railing Swinging Gate System

- Designed for 1/2", 5/8" or 3/4" (12, 16, or 19 mm) Tempered Glass, and 9/16" or 11/16" (13.52 or 17.52 mm) Laminated Tempered Glass (Not Included)
- Stainless Steel, Anodized, and Painted Finishes Offered
- 16 Configurations to Choose From
- Six Handing Options
- Wall or Post Mounted
- Optional Locks Available
- Every Swinging Gate is Custom Fabricated to Your Specifications

USE MONOLITHIC TEMPERED GLASS

or

USE LAMINATED TEMPERED GLASS

WALL MOUNT SWINGING GATE*

CAT. NO.	TOP PIVOT PLUS...	TYPE
SGW1C	Cap Rail, Top Patch, and Full Bottom Rail	W1
SGW2C	Cap Rail, Top and Bottom Patch	W2
SGW3C	Top Patch and Full Bottom Rail	W3
SGW4C	Top and Bottom Patch	W4

Minimum order: 1 each. * Floor Closer sold separately. Specify choice when ordering (see menu below).

CAT. NO.	TOP AND BOTTOM PIVOT PLUS...	TYPE
SGW5C	Cap Rail, Top Patch, and Full Bottom Rail	W5
SGW6C	Cap Rail, Top and Bottom Patch	W6
SGW7C	Top Patch and Full Bottom Rail	W7
SGW8C	Top and Bottom Patch	W8

Minimum order: 1 each.

POST MOUNT SWINGING GATE*

CAT. NO.	TOP PIVOT PLUS...	TYPE
SGP1C	Cap Rail, Top Patch, and Full Bottom Rail	P1
SGP2C	Cap Rail, Top and Bottom Patch	P2
SGP3C	Top Patch and Full Bottom Rail	P3
SGP4C	Top and Bottom Patch	P4

Minimum order: 1 each. * Floor Closer sold separately. Specify choice when ordering (see menu below).

CAT. NO.	TOP AND BOTTOM PIVOT PLUS...	TYPE
SGP5C	Cap Rail, Top Patch, and Full Bottom Rail	P5
SGP6C	Cap Rail, Top and Bottom Patch	P6
SGP7C	Top Patch and Full Bottom Rail	P7
SGP8C	Top and Bottom Patch	P8

Minimum order: 1 each.

Use This Menu to Design the Swinging Gate System of Your Choice

SELECT GATE TYPE

Wall Mount	Post Mount
❑ W1	❑ P1
❑ W2	❑ P2
❑ W3	❑ P3
❑ W4	❑ P4
❑ W5	❑ P5
❑ W6	❑ P6
❑ W7	❑ P7
❑ W8	❑ P8

BOTTOM RAIL LOCK OPTIONS

- ❑ None
- ❑ Cylinder Both Sides
- ❑ Cylinder (Outside Only)
- ❑ Cylinder (Inside Only)
- ❑ Cylinder/Thumbturn (Outside)
- ❑ Cylinder/Thumbturn (Inside)
- ❑ Other _____

CENTER LOCK HOUSINGS

- ❑ PTH311 Latch Lock
- ❑ PTH312 Latch
- ❑ PTH314 Latch Keeper
- ❑ PTH303 Lever Handle
- ❑ Other _____

FINISH

- ❑ Brushed Stainless Steel (BS)
- ❑ Polished Stainless Steel (PS)
- ❑ Powder Coated (PT) RAL#_____
- ❑ Custom Finish (C) Specify _____

FLOOR CLOSER/FLOOR PIVOT OPTIONS

- ❑ J990NH0D 180 Degree Swing No Hold Open
- ❑ J993H0D 180 Degree Swing Hold Open
- ❑ CRL8010DP Floor/Threshold Mnt. Pivot
- ❑ CRL8010BP Standard Floor Mnt. Pivot
- ❑ Other _____

POST MOUNT

- ❑ Core Mount
- ❑ Surface Mount with Base Plate
- ❑ Other _____

GLAZING (NOT INCLUDED)

- ❑ 1/2" (12 mm) Monolithic Tempered
- ❑ 5/8" (16 mm) Monolithic Tempered
- ❑ 3/4" (19 mm) Monolithic Tempered
- ❑ 9/16" (13.52 mm) Laminated Tempered
- ❑ 11/16" (17.52 mm) Laminated Tempered
- ❑ Other _____

TOP CAP DIAMETER

- ❑ 1-1/2" (38 mm) Diameter Top Cap
- ❑ 2" (51 mm) Diameter Top Cap
- ❑ 2-1/2" (64 mm) Diameter Top Cap
- ❑ 3" (76 mm) Diameter Top Cap
- ❑ 3-1/2" (89 mm) Diameter Top Cap
- ❑ 4" (102 mm) Diameter Top Cap
- ❑ 1-1/2" (38 mm) Square Top Cap
- ❑ 2" (51 mm) Square Top Cap
- ❑ 2-1/2" (64 mm) Square Top Cap
- ❑ No Top Cap

POST SIZE

Round Post
- ❑ 2-1/2" (64 mm) Diameter
- ❑ 2-7/8" (73 mm) Diameter
- ❑ 3" (76 mm) Diameter
- ❑ 4" (102 mm) Diameter

Square Post
- ❑ 2-1/2" x 2-1/2" (64 mm)
- ❑ 2-7/8" x 2-7/8" (73 mm)
- ❑ 3" x 3" (76 mm)
- ❑ Other _____

BOTTOM RAIL STYLE

- ❑ 4" (102 mm) Tall (Wide Style) Bottom Rail
- ❑ 4" (102 mm) Standard Bottom Rail
- ❑ 9-1/2" (241 mm) Long Patch Fitting

HANDING

	Inside	
❑ 2 LH or LHDA		1 ❑ RH or RHDA
	Outside	

	Inside	
❑ 4 LHR or LHSO		3 ❑ RHR or RHSO
	Outside	

	Inside	
❑ 6 LH or LHS1		5 ❑ RH or RHS1
	Outside	

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CRL US ALUMINUM
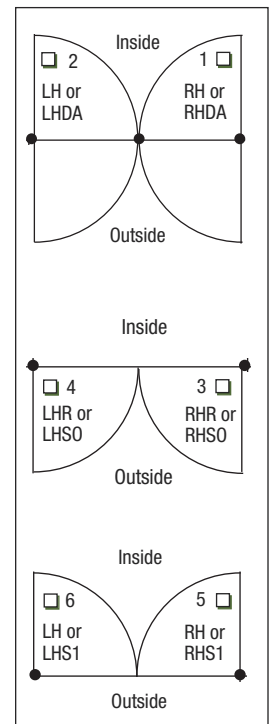
CRL GRS 9-1/2" Dry Glaze Top Patch Gate Rails

- For 3/8" or 1/2" (10 or 12 mm) Tempered Glass

NEW!

9-1/2" (241 mm)

Square Patch Shown

4" (102 mm)

USE MONOLITHIC TEMPERED GLASS

- Top Patch With Notch for CRL's AGT2 and AGT3 Pivot Brackets
- Patented Wedge-Lock® Glass Securing System Lets You Adjust and Align Gates Without Removal
- Custom Patches Available Upon Request

Works With:
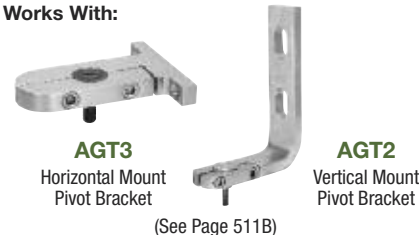
AGT3
Horizontal Mount Pivot Bracket

AGT2
Vertical Mount Pivot Bracket

(See Page 511B)

ORDERING INFORMATION:
- All Rails are supplied with standard Kwik-Adjust™ Pivot Alignment System. Closer Arms and Floor or Overhead Pivots must be ordered separately.
- End Caps are included on 9-1/2" Patch Gate Rails.
- For Replacement End Caps, go to **crlaurence.com** and search for **DREC4**.

4" SQUARE PATCH GATE RAILS 9-1/2" (241 MM) LENGTH

3/8" (10 MM) GLASS CAT. NO.	1/2" (12 MM) GLASS CAT. NO.	FINISH*
DR4SBS38AGP	DR4SBS12AGP	Brushed Stainless
DR4SPS38AGP	DR4SPS12AGP	Polished Stainless

Minimum order: 1 each. All Patch Gate Rails can be combined for quantity pricing. *Clad finish.

4" TAPERED PATCH GATE RAILS 9-1/2" (241 MM) LENGTH

3/8" (10 MM) GLASS CAT. NO.	1/2" (12 MM) GLASS CAT. NO.	FINISH*
DR4TBS38AGP	DR4TBS12AGP	Brushed Stainless
DR4TPS38AGP	DR4TPS12AGP	Polished Stainless

Minimum order: 1 each. All Patch Gate Rails can be combined for quantity pricing. *Clad finish.

CRL GRS 9-1/2" Dry Glaze Bottom Patch Rails

- For 3/8" or 1/2" (10 or 12 mm) Glass
- Patented Wedge-Lock® Glass Securing System
- Adjust and Align Gates Without Removal
- Available With or Without Locks
- In Stock Ready to Ship
- Matching Sidelite Rails Available

USE MONOLITHIC TEMPERED GLASS

Tapered Style
4" (102 mm)
9-1/2" (241 mm)
2" (51 mm)

Square Style
4" (102 mm)
9-1/2" (241 mm)
2" (51 mm)
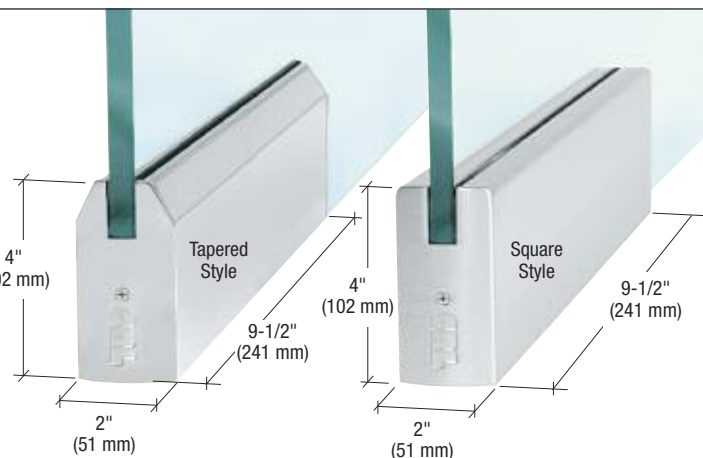
4" TAPERED PATCH RAILS 9-1/2" (241 MM) LENGTH

3/8" (10 MM) GLASS WITHOUT LOCK CAT. NO.	3/8" (10 MM) GLASS WITH LOCK CAT. NO.	1/2" (12 MM) GLASS WITHOUT LOCK CAT. NO.	1/2" (12 MM) GLASS WITH LOCK CAT. NO.	FINISH*
DR4TBS38P	DR4TBS38PL	DR4TBS12P	DR4TBS12PL	Brushed Stainless
DR4TPS38P	DR4TPS38PL	DR4TPS12P	DR4TPS12PL	Polished Stainless

Minimum order: 1 each. All Gate Rails can be combined for quantity pricing. *Clad finish.

4" SQUARE PATCH RAILS 9-1/2" (241 MM) LENGTH

3/8" (10 MM) GLASS WITHOUT LOCK CAT. NO.	3/8" (10 MM) GLASS WITH LOCK CAT. NO.	1/2" (12 MM) GLASS WITHOUT LOCK CAT. NO.	1/2" (12 MM) GLASS WITH LOCK CAT. NO.	FINISH*
DR4SBS38P	DR4SBS38PL	DR4SBS12P	DR4SBS12PL	Brushed Stainless
DR4SPS38P	DR4SPS38PL	DR4SPS12P	DR4SPS12PL	Polished Stainless

Minimum order: 1 each. All Gate Rails can be combined for quantity pricing. *Clad finish.

ORDERING INFORMATION:
- All Rails are supplied with standard Kwik-Adjust™ Pivot Alignment System. Closer Arms and Floor or Overhead Pivots must be ordered separately.
- Models with Locks are supplied with the Lock Mechanism installed. Matching finished Keyed Cylinders or Thumbturns must be ordered separately
- End Caps are included on 9-1/2" Patch Gate Rails.
- For Replacement End Caps, go to **crlaurence.com** and search for **DREC4**.

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CRL US ALUMINUM

CRL GRS GATE HARDWARE

CRL GRS 4" Square Shape Full Length Dry Glaze Rails

- For 3/8" or 1/2" (10 or 12 mm) Tempered Glass
- Patented Wedge-Lock® Glass Securing System
- Available With or Without Lock
- Stock 35-3/4" (908 mm) Sizes Ready to Ship and Custom Sizes Available Upon Request
- Adjust and Align Gates Without Removal

QUICK PICK
RED-E Ship

4"
(102 mm)

2"
(51 mm)

USE MONOLITHIC
TEMPERED GLASS
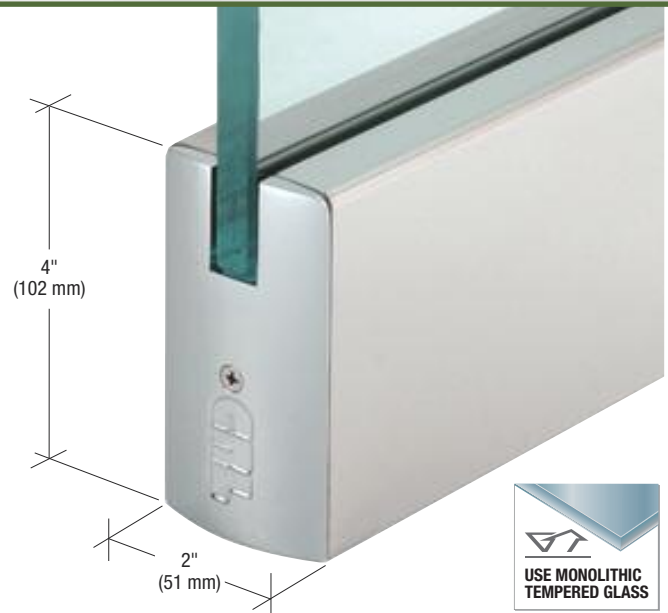
4" SQUARE GATE RAILS 35-3/4" (908 MM) LENGTH - STOCK SIZES READY TO SHIP

3/8" (10 MM) GLASS WITHOUT LOCK CAT. NO.	3/8" (10 MM) GLASS WITH LOCK CAT. NO.	1/2" (12 MM) GLASS WITHOUT LOCK CAT. NO.	1/2" (12 MM) GLASS WITH LOCK CAT. NO.	FINISH*
DR4SBS38S	DR4SBS38SL	DR4SBS12S	DR4SBS12SL	Brushed Stainless
DR4SPS38S	DR4SPS38SL	DR4SPS12S	DR4SPS12SL	Polished Stainless

Minimum order: 1 each. All Gate Rails can be combined for quantity pricing. *Clad finish.

CRL Dustproof Keeper With Mounting Plate

- Available in Three Finishes in Locking and Non-Locking Models
- Accepts 5/8" (16 mm) Diameter Plunger Bolt

2-7/8" (73 mm)

1-3/8" (35 mm)

2-1/8" (54 mm)

15/16" (24 mm)

Locking Keeper   Non-Locking Keeper
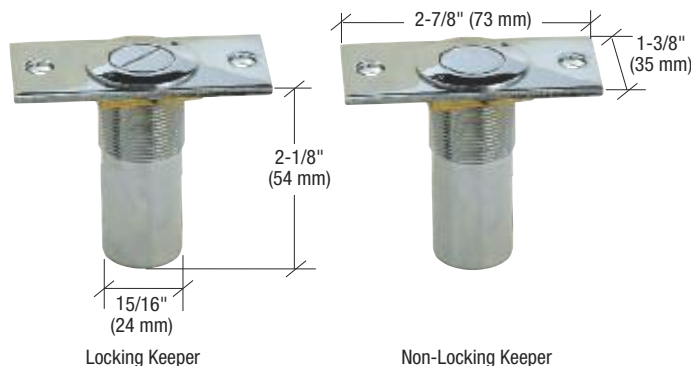
The CRL Dustproof Keeper With Mounting Plate works with our Gate Rail Floor Locks and Locking Ladder Pulls. Accepts 5/8" (16 mm) plunger from these or similar devices. Two styles available: Locking and Non-Locking. Keeper is packed with two flat head screws. Requires a 1" (25 mm) diameter hole drilled 2" (51 mm) into the floor for installation.

LOCKING CAT. NO.	FINISH	NON-LOCKING CAT. NO.
AMR209PS	Polished Chrome	AMR208PS
AMR209BR	Polished Brass	AMR208BR
AMR209BN	Brushed Nickel	AMR208BN

Minimum order: 1 each. Finishes can be combined for quantity pricing.

CRL Dustproof Keeper Without Mounting Plate

- Accepts 5/8" (16 mm) Diameter Plunger Bolt

This CRL Dustproof Keeper is intended for use with our Gate Rail Floor Locks, Locking Ladder Pulls, or any other lock with a 5/8" (16 mm) plunger type latch bolt. Requires a 1" (25 mm) diameter hole drilled 2" (51 mm) into the floor for installation.

1-1/4" (32 mm)

2-3/16" (56 mm)

15/16" (24 mm)

CAT. NO.	FINISH
AMR207PS	Polished Chrome
AMR207BR	Polished Brass
AMR207BN	Brushed Nickel

Minimum order: 1 each. Finishes can be combined for quantity pricing.

CRL Strike Plate

- Works With Gate Rail Floor Lock Bolts
- Available in Five Finishes

1" (25 mm)

1-3/4" (44 mm)

2-1/2" (64 mm)
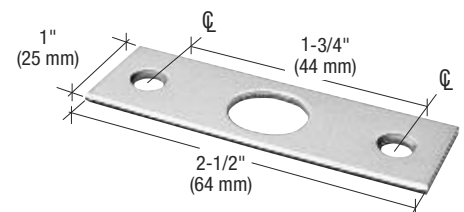
This metal CRL Strike Plate will work with our Gate Rail Floor Locks, or any other lock with a 5/8" (16 mm) plunger type latch bolt. One per package with two screws.

CAT. NO.	FINISH
777SPSA	Clear Anodized
777SPDU	Black Bronze Anodized
777SPPS	Polished Stainless
777SPBS	Brushed Stainless
777SPPB	Polished Brass

Minimum order: 1 each. Finishes can be combined for quantity pricing.

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or enter the Catalog Number for complete product information

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TOLL Phone: (800) 421-6144
FREE Fax: (800) 262-3299
From Anywhere in the U.S. or Canada

CRL
US ALUMINUM

CRL Stainless Steel Post Kits for Gates

- Designed for Use With Hinges or Patch Hardware
- Available With Offset Surface Mount Flange or Core Mount
- Standard 2-1/2", 3" and 4" (64, 76, and 102 mm) Square Profiles

US ALUMINUM MANUFACTURED IN THE USA

NEW!

- 316 Grade Stainless Steel
- Hardware Sold Separately
- Field Fabrication Required

CRL Stainless Steel Post Kits for Gates are made from 316 grade stainless, and are offered in either surface mount or core mount types. Both are available in 2-1/2", 3", and 4" (64, 76, and 102 mm) square profiles, made to your custom height specification. The size of the post is dependent upon the overall width and height of the gate being attached to the posts. For Surface Mount Post Kits see page 304B for anchors (sold separately). For Core Mount Post Kits we recommend using Expanding Cement (see page 450B).

For additional information, contact Railing Technical Sales at (800) 421-6144 in the U.S., (877) 421-6144 from Canada, or (323) 588-1281 International, and ask for Ext. 7730. You may also send email to **railings@crlaurence.com**.

WDP32BS Wall Mount Door Pivot (see page 512B)

PH20A Series Top Gate Patch Fitting (see page 512B)

SMGP1 Stainless Steel Surface Mount Post Kit

604L or 605L Exterior Lever Trim With or Without Exterior Cylinder (see page 516B)

Gate Hinge Options (see pages 528B-529B)

CMGP1 Stainless Steel Core Mount Post Kit

LH and PTH Series Glass Mount Lever Lock Housings (see pages 520B-522B)

Optional Electric Strikes (see page 519B)

1900SP Glass Mounting Pads (see page 517B)

1900 Rim Exit Panic (see page 516B)

Core/Embedded Mounting Option 4" (102 mm) Minimum Embedment

Surface Mounted Base Plate Mounting Option

PH10C Series Bottom Gate Patch Fitting (see page 513B)

J990NH0D No Hold Open Floor Closer with Center Hung Arm (see pages 514B-515B)

Typical Surface Mount System
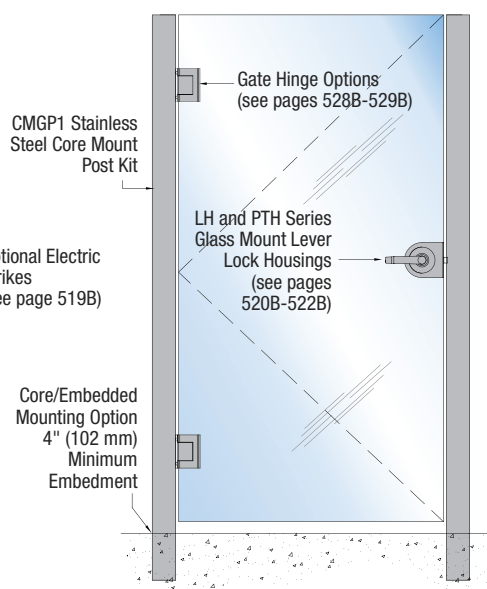
Typical Core Mount System

Removable Cap

2-1/2", 3", and 4" (64, 76, and 102 mm) Square Profiles Available

Mounting Fasteners Sold Separately (see page 304B)

Surface Mount Post*

Core Mount Post*

*Specify Post Height when ordering.

CAT. NO.	GRADE	MOUNTING STYLE	FINISH
SMGP1BSC	316	Surface Mount	Brushed Stainless
SMGP1PSC	316	Surface Mount	Polished Stainless
CMGP1BSC	316	Core Mount	Brushed Stainless
CMGP1PSC	316	Core Mount	Polished Stainless

Minimum order: 1 each. Must specify post height and profile size when ordering.

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CRL US ALUMINUM

CRL GRS GATE HARDWARE

CRL GRS Cap Railing Swinging Gate Hardware

- For Free-Swinging or Floor Mounted Door Closer Gates
- Steel Brackets Fit Under Top Cap
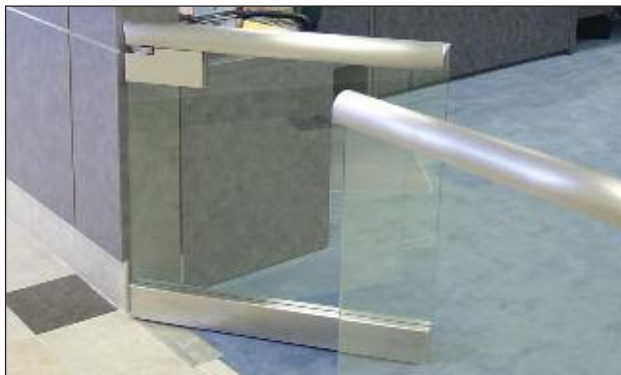
For Information on Complete Gate Systems go to crlaurence.com/gate-hardware.

CRL offers a complete line of hardware to complement our GRS Cap Railing Swinging Gate Systems. The selection of appropriate mounting hardware is dependent upon the weight of the gate, direction of swing (one way or free swinging), and the substrate to which it will be attached. Assistance is available from CRL Railing Technical Sales.

CRL Horizontal Mount Pivot Bracket

- 2-3/4" (70 mm) Pivot Setback
- Non-Handed
- Available in 304 Grade Brushed and Polished Stainless Steel, or Custom Painted

For AGT3 Replacement Pin Order
CAT. NO. AGTP1

4-1/4" (108 mm)

4" (102 mm)

5/8" (16 mm)
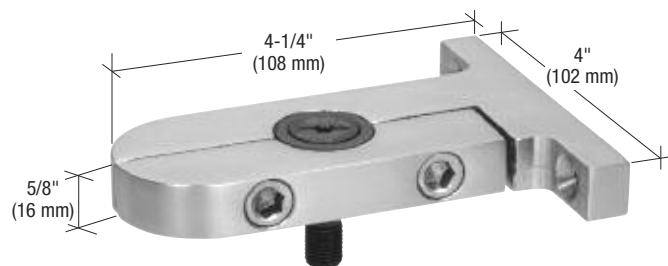
The Horizontal Mount Pivot Bracket was designed to accommodate heavy glass gates or doors that don't require support of any weight above. The measurement from the backside of the Bracket to the centerline of the pivot point is 2-3/4" (70 mm) American Standard Setback. Horizontal Mount Brackets are non-handed. **NOTE:** Must be attached to a substrate with sufficient structural integrity for support.

CAT. NO.	HANDING	FINISH
AGT3BS	Non-Handed	Brushed Stainless
AGT3PS	Non-Handed	Polished Stainless

Minimum order: 1 each. Door Pivots can be combined for quantity pricing.

CRL Vertical Mount Pivot Bracket

- 2-3/4" (70 mm) Pivot Setback
- Provides Top Pivot Point for Gate
- Right and Left Handed Models
- Available in 304 Grade Brushed and Polished Stainless Steel

The Vertical Mount Pivot Bracket will provide a top pivoting point for the gate. Brackets are handed, so order appropriate handing for your installation. **NOTE:** Must be recessed into the substrate with sufficient structural integrity for support.

2-3/4" (70 mm)

For AGT2 Replacement Pin Order
CAT. NO. AGTP1

7-5/8" (194 mm)

6" (152 mm)

5/8" (16 mm) Thick

Right Hand Shown
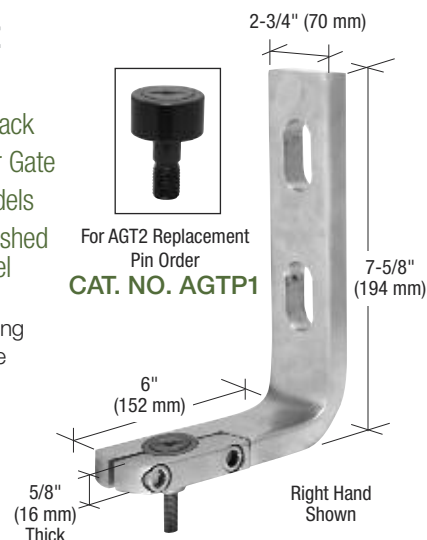
CAT. NO.	HANDING*	FINISH
AGT2LBS	Left Hand	Brushed Stainless
AGT2LPS	Left Hand	Polished Stainless
AGT2RBS	Right Hand	Brushed Stainless
AGT2RPS	Right Hand	Polished Stainless

Minimum order: 1 each. Door Pivots can be combined for quantity pricing. *Handing is viewed from the secure side.

CRL Free-Swinging Bottom Pivot Set

- Designed to Fit CRL Wedge-Lock® Gate Rails

This Free-Swinging Bottom Pivot Set is designed to be used with CRL Wedge-Lock® Rail Systems. Minimum order is one each. **NOTE:** Not recommended for pool gates.

Maximum Weight Capacity: 200 pounds (90 kg).

5-9/16" (141 mm)

5/8" (16 mm)

3-7/8" (98 mm)

1-3/4" (44 mm)
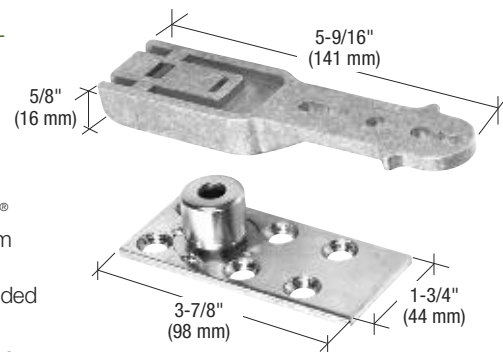
CAT. NO. CRL8010BP

CRL Adjustable Dual-Purpose Bottom Pivot Set

- Mounts Directly to Floor or Threshold

This Pivot can be used with the base plate for floor mounting or attached directly to the threshold. A 3/16" (5 mm) height adjustment is possible with the gate on or off the pivot. Minimum order is one each. **NOTE:** Not recommended for pool gates.

1-7/8" (48 mm)

3-3/4" (95 mm)

1-15/16" (50 mm)

1-5/16" (33 mm)

5" (127 mm)

Maximum Weight Capacity: 200 pounds (90 kg).

CAT. NO. CRL8010DP

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CRL
US ALUMINUM

CRL North American Top Patch Fitting

- 2-3/4" (70 mm) North American Pivot Setback
- For 3/8" or 1/2" (10 or 12 mm) Tempered Glass

GLASS FABRICATION REQUIRED:
One 3/4" (19 mm) Diameter Hole and Corner Notch

COMES WITH:
Template and Instructions

USE MONOLITHIC TEMPERED GLASS

1NT303 Insert (Included)

Works With:

2" (51 mm)

6-7/16" (164 mm)

CAT. NO.	GRADE OF COVERS	FINISH
PH20ABS	304	Brushed Stainless
PH20APS	304	Polished Stainless

Minimum order: 1 each. All Patch Fittings can be combined for quantity pricing.

GGP12 Glass-to-Glass Pivot Patch

WGP22 Wall Mount Pivot

8100RP Round Post Mount Pivot

WDP32 Wall Mount Pivot

CRL Glass-to-Glass Pivot Patch
• For 1/2" (12 mm) Tempered Glass

USE MONOLITHIC TEMPERED GLASS

10-1/4" (260 mm)

1-1/4" (32 mm)

Glass Fabrication Required

2" (51 mm)

3-1/8" (79 mm)
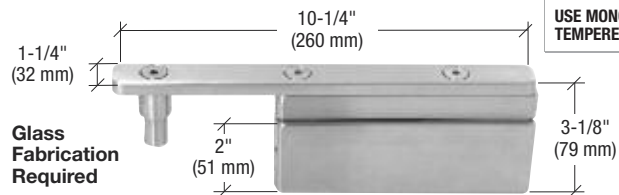
This CRL Glass-to-Glass Pivot Patch is designed to allow for a gate in an 'all-glass' windscreen using either Base Shoe or Frameless Windscreen Clamps. It fits in the upper corner of the fixed glass panel, and requires a hole and glass cut-out in the glass. As a safety measure the bottom of the pivot bar is raised 3/4" (19 mm) above the CRL Top Patch Fitting (see above), allowing for adequate space to help prevent pinching of fingers. 2-3/4" (70 mm) pivot distance off of the face of fixed glass panel.

CAT. NO.	GRADE	FINISH
GGP12BS	304	Brushed Stainless
GGP12PS	304	Polished Stainless

Minimum order: 1 each.

CRL Wall Mount Pivot

• 304 Grade Stainless Steel

This CRL Wall Mount Pivot is designed for mounting to a post or wall. As a safety measure the bottom of the pivot bar is raised 3/4" (19 mm) above the CRL Top Patch Fitting (see above), allowing for adequate space to help prevent pinching of fingers. 3" (76 mm) pivot distance from wall/post.

1-15/16" (49 mm)

3-7/8" (98 mm)

1-1/2" (38 mm)

1" (25 mm)

3-15/16" (100 mm)

Use #10 Flat Head Mounting Screws (not included)

1/4" (6 mm) Thick
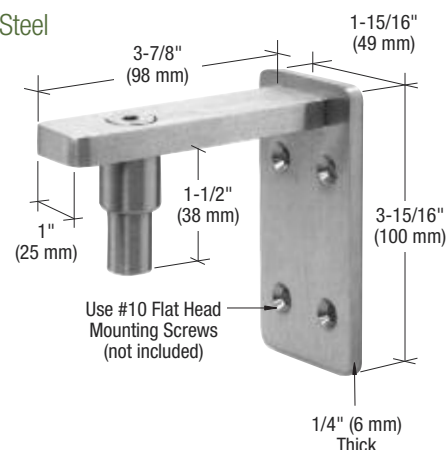
CAT. NO.	GRADE	FINISH
WGP22BS	304	Brushed Stainless
WGP22PS	304	Polished Stainless

Minimum order: 1 each.

CRL Round Post Mount Pivot

• 304 Grade Stainless Steel

4-1/8" (105 mm)

1" (25 mm)

3/8" (10 mm)

1" (25 mm)

13/16" (21 mm)

CRL's Round Post Mount Pivot is a radiused back pivot bar designed to support the top section of the CRL Top Patch Fitting (see above). Fits post radius of 1.9" (48 mm) O.D. The Pivot requires welding to the post and comes drilled and tapped for attachment prior to the welding process. 2-3/4" (70 mm) pivot distance off the face of round post.

CAT. NO.	GRADE	FINISH
8100RP	304	Brushed Stainless
8100RPPS	304	Polished Stainless

Minimum order: 1 each.

CRL Wall Mount Pivot

• 304 Grade Stainless Steel

This CRL Wall Mount Pivot is designed for mounting to a post or wall. The space between the bottom of the pivot bar and the CRL Top Patch Fitting (see above) has been reduced to 1/8" (3 mm), so at gate height the chance of pinching fingers is greatly reduced. 3" (76 mm) pivot distance from wall/post.

1-15/16" (49 mm)

3-7/8" (98 mm)

13/16" (21 mm)

1" (25 mm)

3-15/16" (100 mm)

Use #10 Flat Head Mounting Screws (not included)

1/4" (6 mm) Thick
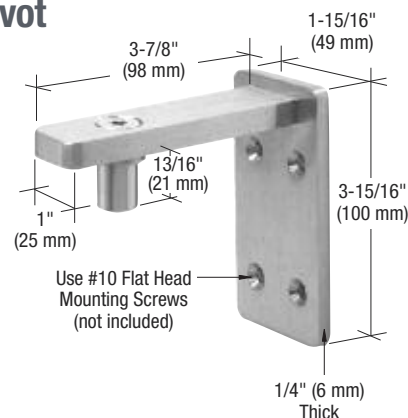
CAT. NO.	GRADE	FINISH
WDP32BS	304	Brushed Stainless
WDP32PS	304	Polished Stainless

Minimum order: 1 each.

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CRL US ALUMINUM

CRL North American Bottom Gate Patch Fitting

- 2-3/4" (70 mm) North American Pivot Setback
- For 3/8" or 1/2" (10 or 12 mm) Tempered Glass

USE MONOLITHIC TEMPERED GLASS

6-7/16" (164 mm)

2" (51 mm)

GLASS FABRICATION REQUIRED:
One 3/4" (19 mm) Diameter Hole and Corner Notch

COMES WITH:
Template and Instructions

1NT301 Insert (Included)

CAT. NO.	GRADE OF COVERS	FINISH
PH10CBS	304	Brushed Stainless
PH10CPS	304	Polished Stainless

Minimum order: 1 each. All Patch Fittings can be combined for quantity pricing.
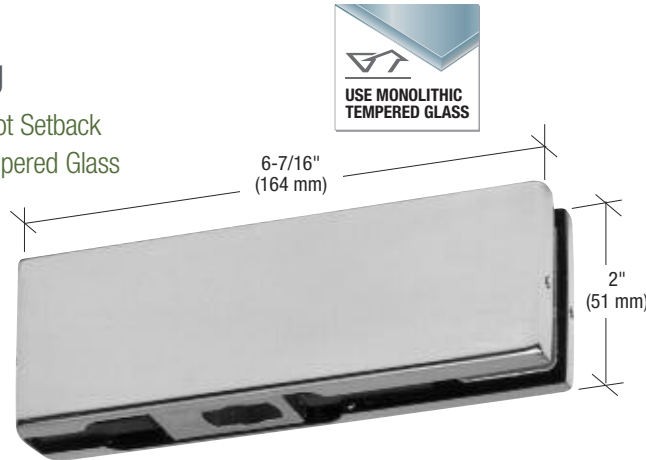
Works With:
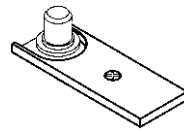
1NT403
Adjustable Bottom
Free-Swinging Pivot
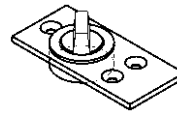
1NT402
Bottom
Free-Swinging Pivot
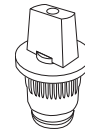
1NT406
Adjustable Bottom
Free-Swinging Pivot
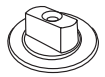
CRL8300, CRL8400,
CRL8500, and J990 Series
Floor Closers

CRL Adjustable Free-Swinging Bottom Pivot

- Has 3/16" (5 mm) Height Adjustment
- Can be Floor or Threshold Mounted

NOTE: Not For Pool Applications
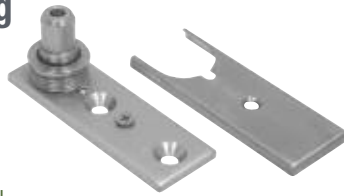
CAT. NO. 1NT403
Minimum order is one each.

CRL Free-Swinging Bottom Pivot

- 7/8" (22 mm) Flat Tapered Spindle
- For Use With Bottom Patches and Rails

NOTE: Not For Pool Applications

CAT. NO. 1NT402
Minimum order is one each.

CRL Adjustable Free-Swinging Bottom Pivot

- Flat Tapered Spindle
- Provides 1/4" (6 mm) Height Adjustable

NOTE: Not For Pool Applications

CAT. NO. 1NT406
Minimum order is one each.

CRL Bottom Hydraulic Patch Fitting

- 2-9/16" (65 mm) European Pivot Setback
- For Interior Use Only
- Adjustable Closing and Latching Speed
- Self-Closing
- Hold-Open and No Hold-Open Models Available
- Brushed and Polished Stainless Steel Cover Plates
- For 3/8" or 1/2" (10 or 12 mm) Tempered Glass

The *NEW* CRL Bottom Hydraulic Patch Fitting is designed to eliminate the need to cut into the floor to install a conventional floor closer. Simply install by anchoring the base plate to the substrate. These double acting Patch Fittings can accommodate interior gates up to 176 pounds (80 kg), and feature a self-closing mechanism with adjustable closing and latching speed. Also available with a 90 degree hold-open function. Glass fabrication is required.
***NOTE:** 90 Degree Hold-Open Model is not for pool applications.

1-5/8" (41 mm)

7-3/16" (183 mm)

2-3/4" (70 mm)

Glass Fabrication Required

NEW!

USE MONOLITHIC TEMPERED GLASS

Base Plate
1-13/16" W x 6-13/16" L x 1/2" H
(46 x 173 x 12 mm)
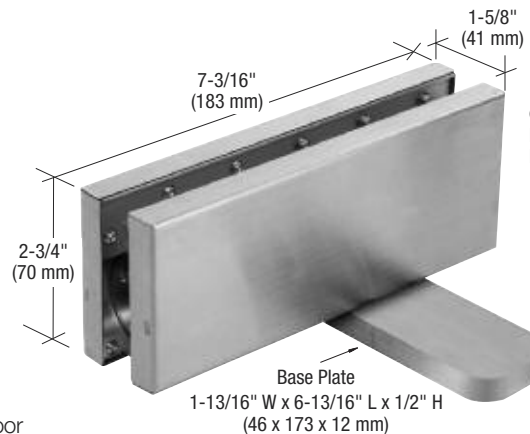
NOTE: 2-9/16" (65 mm) European Setback is Standard, With 2-3/4" (70 mm) North American Setback Achievable Using Alternate Glass Fabrication

CAT. NO.	DESCRIPTION	FINISH
CRL380BS	No Hold-Open Hydraulic Patch	Brushed Stainless
CRL380PS	No Hold-Open Hydraulic Patch	Polished Stainless
CRL380HBS	*90 Degree Hold-Open Hydraulic Patch	Brushed Stainless
CRL380HPS	*90 Degree Hold-Open Hydraulic Patch	Polished Stainless

Minimum order: 1 each Patch Body. 1 pair Patch Covers. *Hold-Open Model not for pool applications.

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TOLL Phone: (800) 421-6144
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CRL US ALUMINUM

CRL 900 Series Heavy-Duty Floor Mounted Closers for Gates

- Up to 1000 Pound (454 kg) Capacity, 54" (1372 mm) Gates
- Multi-Size Spring Power Adjustable
- Interchangeable Spindle Heights
- Levelling and Gate Centering Adjustments
- 10 Year Limited Warranty
- UL Listed

12-1/8" (308 mm)

1-3/8" to 1-5/8" (35 to 41 mm)

1-3/4" to 2" (44 to 51 mm)

Varies With Spindle Used

2-3/8" (60 mm)

3-1/16" (78 mm)
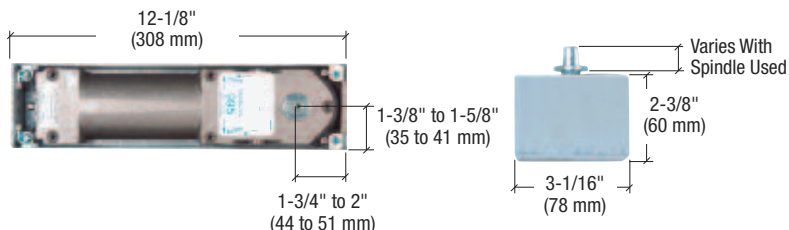
SPECIFICATIONS:

Maximum Center-Hung Gate: Weight = 1000 lbs. (454 kg), Width = 54" (1372 mm)
Maximum 3/4" Offset Gate: Weight = 650 lbs. (295 kg), Width = 48" (1219 mm)
Maximum 1-1/2" Offset Gate: Weight = 300 lbs. (136 kg), Width = 42" (1067 mm)
Adjustable Spring Power: Multi-Size 1 - 6
Gate Centering Adjustment: 6 Degree Range Adjustment to Align Gate
Hold or No Hold Open Models: Hold Open at Both 90 Degrees and 120 Degrees, Hold Open at 105 Degrees Only
Action: Non-Handed, Double Acting – 180 Degree Swing

The 900 Series Multi-Sized Floor Mounted Closer for Gates is a heavy-duty, fully adjustable closer designed for new and retrofit applications. Accessories are available for either double or single acting gates. With up to 1000 pound (454 kg) capacity, the 900 Series Floor Closer can be used with larger and heavier interior or exterior gates for longer, maintenance-free performance. These Closers are available in dual 90 and 120 degree, or 105 degree only Hold Open and No Hold Open models.

This fully adjustable Closer meets A.D.A.* requirements in that it can be set at 5 or 8.5 pound opening forces. The unique centering adjustment simplifies double gate alignment. This closer provides seasonal adaptability for areas with extreme temperature changes due to its multi-viscosity temperature stabilizing fluid with thermal sensitive valves. Packages for new and retrofit installations, as well as accessories for both Center-Hung and Offset gate applications, are available.

Interchangeable Spindle System Adapts to Gate and Floor Clearance Needs

Temperature Stabilizing Fluid with Thermal Sensitive Valves Gives Automatic Seasonal Adaptability

Visible Bubble Port Aids Leveling of Closer

Multi Spring Size 1-6 Adjustment Controls Both Opening and Closing Forces

3 Degree Gate Centering Adjustment Simplifies Double Swing Gate Alignment

Single Valve Adjusts Closing Speed

Tapered Roller Bearings Carry Thrust of Spindle with Ease, Providing Very Heavy Capacity and 80% Closing Energy Efficiency

For more information, contact Railing Technical Sales at (800) 421-6144 in the U.S., (877) 421-6144 from Canada, or (323) 588-1281 International, and ask for Ext. 7730. You can also e-mail us at **railings@crlaurence.com**.

NOTE: This Closer is designed to open to a maximum of 180 degrees. An auxiliary floor or overhead stop is required to stop the gate at less than 180 degrees.

Basic Closer Package

CONSISTS OF:
- 990 Closer Body
- Installation Tool Package
- Cement Case
  (Use CRL Cat. No. BP300BL Bedding Sealant in Cement Case to Protect Closer from Excessive Moisture or a Corrosive Environment.)

CAT. NO.	DESCRIPTION
J990NH0D	180 Degree Swing No Hold Open
J993H0D	180 Degree Swing Hold Open @ 90 Degrees and 120 Degrees
J994H0D	180 Degree Swing Hold Open @ 105 Degrees
J995BCD	180 Degree Swing No Hold Open – Backcheck @ 85 Degrees

Minimum order: 1 each. All Closers can be combined for quantity pricing.

NOTE: *Closers set to comply with A.D.A. specified opening forces might not provide adequate spring power to control and gate the door due to varying site conditions and gate size.

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TOLL Phone: (800) 421-6144
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CRL US ALUMINUM

CRL Interchangeable Floor Closer Spindles

• Fit 900 Series Floor Mounted Closers for Gates

CRL Flat Tapered Spindles are available in various heights to accommodate different threshold and finished floor heights, and are intended for use with all CRL 900 Series Floor Mounted Closers. The CRL Flat Tapered Spindle will allow the use of all center-hung and offset bottom arms intended for use with this type of spindle, as well as CRL Patch Fitting Inserts.

7/8" (22 mm)

Flat Tapered

CRL's DRS Bottom Gate Rail

CRL9040AS Floor Closer Arm

Collar Height

3/16" (5 mm) Gate Clearance

Floor Mounted Closer

FLAT TAPERED CAT. NO.	COLLAR HEIGHT/DRS GATE CLEARANCE	STANDARD GATE CLEARANCE
CRL9040S3	1/8" (3 mm)	5/16" (8 mm)
CRL9040S8	5/16" (8 mm)	1/2" (13 mm)
CRL9040S13	1/2" (13 mm)	11/16" (17 mm)
CRL9040S18	3/4" (19 mm)	15/16" (24 mm)
CRL9040S23	7/8" (22 mm)	1-1/16" (27 mm)
CRL9040S28	1-1/8" (29 mm)	1-5/16" (33 mm)
CRL9040S33	1-5/16" (33 mm)	1-1/2" (38 mm)

Minimum order: 1 each. All Spindles can be combined for quantity pricing.
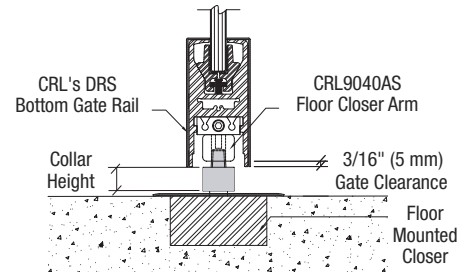
CRL Floor Closer Cover Plates

• Fit 900 Series Floor Mounted Closers for Gates

4-1/8" (105 mm)

13-5/16" (338 mm)
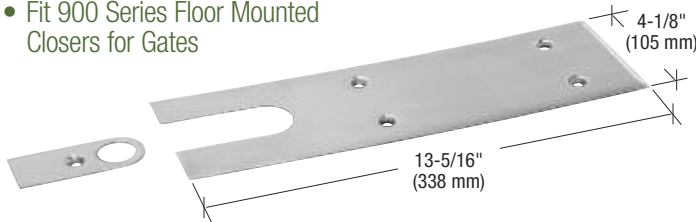
These Floor Closer Cover Plates are for use with CRL 900 Series Floor Mounted Closers. They are available in four popular finishes, and allow for full closer adjustment without removing the gate.

CAT. NO.	FINISH
J7020CPBS	Brushed Stainless Steel
J7020CPPS	Polished Stainless Steel
J7020CPPB	Polished Brass
J7020CPDU	Dark Bronze

Minimum order: 1 each.

CRL Center-Hung Bottom Arm

• Fits 900 Series Floor Mounted Closers for Gates

15/16" (24 mm)

13/16" (21 mm)

6-1/2" (165 mm)
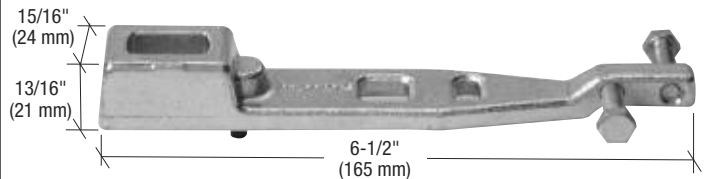
These CRL Center-Hung Floor Closer Arms should be used with gates having a minimum 3/4" (19 mm) deep bottom gate rail. Arms will accommodate most gate types. They can be used with 900 Series Floor Closers, as well as any other closer using a 7/8" (22 mm) flat tapered type spindle.

CAT. NO.	APPLICATION
CRL9040AS	CRL Door Rail Type Gates

Minimum order: 1 each.

CRL Floor Closer Terrazzo Pan

• For Use With 900 Series Floor Closers Only

4" (102 mm)

1" (25 mm)

13-1/4" (337 mm)
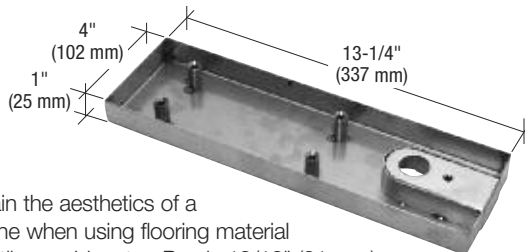
Used to maintain the aesthetics of a continuous floor line when using flooring material such as terrazzo, tile, marble, etc. Pan is 13/16" (21 mm) in depth and requires the use of a CRL9040S23 spindle (ordered separately) for a minimum 1/4" (6 mm) clearance above the finished floor. Pan can be removed to make adjustments to the Floor Closer without having to take the gate down. **NOTE:** Recommended for interior use only. Minimum order is one each.

CAT. NO. TPJ900

CRL 900 Series Cement Case

• Fits 900 Series Floor Mounted Closers for Gates

The CRL 900 Series Closer Cement Case is used to hold the 900 Series Floor Closer body in the floor. Minimum order is one each.

12-1/8" (308 mm)

2-5/16" (59 mm)

3-1/16" (78 mm)

CAT. NO. J9010

go to crlaurence.com to search for

gate-hardware   Search   **515B**

or enter the Catalog Number for complete product information

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FREE Fax: (800) 262-3299
From Anywhere in the U.S. or Canada

CRL US ALUMINUM
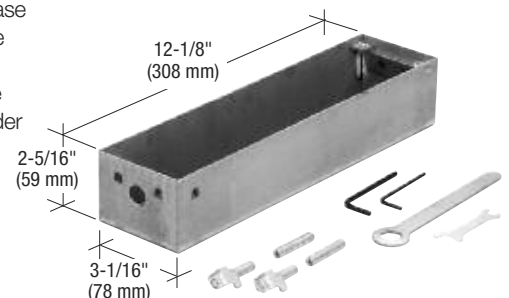
CRL 1900 Narrow Stile Push-Pad Rim Panic Exit Devices

- For Use With 1-3/4" Narrow, Medium, and Wide Stile Aluminum Framed Gates and All Glass Gates With Mounting Pads (See Page 517B)
- Includes Adjustable Surface Mount Strike
- Concealed Fastening for Added Security
- Non-Handed and Reversible
- UL Listed

CRL 1900 Series Narrow Stile Panic Exit Devices are designed for 1-3/4" (44 mm) narrow stile aluminum gates, but can also be used with medium and wide stile aluminum, wood or hollow metal gates, and 1/2" (12 mm) tempered all glass gates with Glass Mounting Pads (see page 517B). The Panic is field sizeable, and fits doors 30" to 44" (762 to 1118 mm) wide and 1-3/4" (44 mm) thick. Ruggedly constructed with 3/4" (19 mm) throw cast brass latch bolt. Surface mounted adjustable roller strike included. This device is non-handed and is easy to install. For keyed entry, an optional CRL Small Format Interchangable Core and Cylinder Housing is required (see page 518B).

Adjustable Surface Mount Strike

2-3/4" (70 mm)

4-5/8" (117 mm)

1-1/8" (29 mm)

Latch Detail
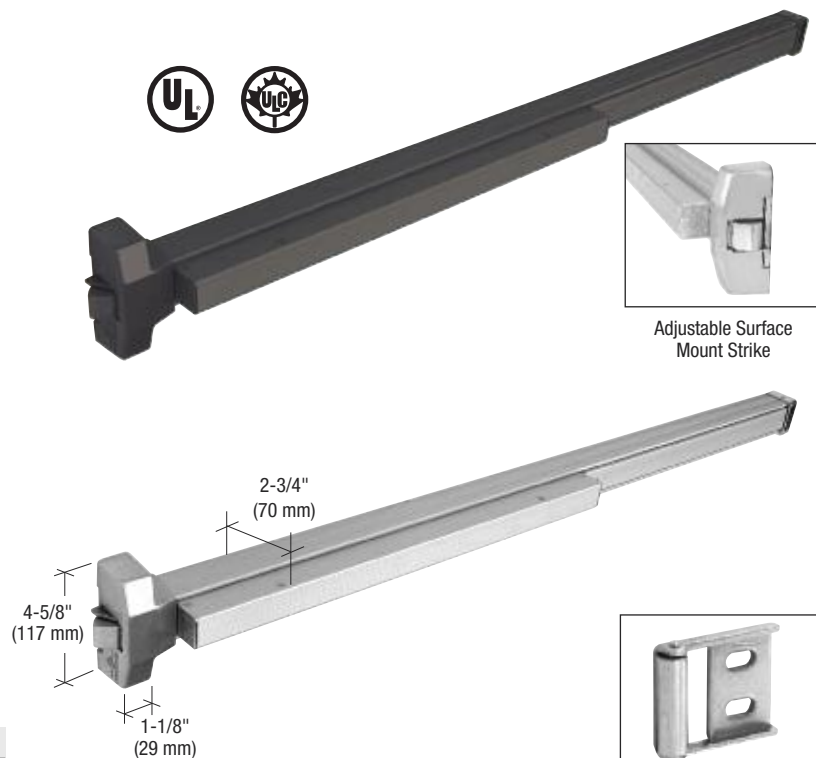
CAT. NO.	TYPE	FINISH
1900A	Push-Pad Rim	Satin Aluminum
1900BRZ	Push-Pad Rim	Dark Bronze

Minimum order: 1 each. All Panic Exit Devices can be combined for quantity pricing.

CRL 1600 Series Lever Trim for 1900 Rim Panic Devices

- For Use With 1900 Model Rim Panic and All Glass Gates With Mounting Pads (See Page 517B)
- Concealed Fastening for Added Security
- Non-Handed and Reversible
- UL Listed

1600 Series Lever Trim for 1900 Rim Panic Devices have a 2-1/4" (57 mm) escutcheon and mounts to our Glass Mounting Pads (see page 517B), allowing them to be mounted to 1/2" (12 mm) thick all glass gates. Available in both keyed and non-keyed models. The keyed models require CRL Small Format Interchangeable Cores and Mortise Cylinder Housings, which are sold separately (see page 518B).

NEW!

Plate Dimension:
Height: 8" (203 mm)
Width: 2-1/4" (57 mm)
Projection: 11/16" (17 mm)

1-1/8" (29 mm) Mortise Housing and SFIC Core Sold Separately (see page 518B)
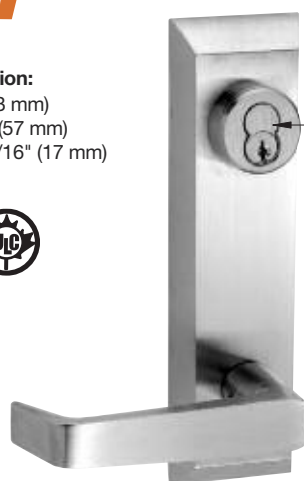
MODEL 604LC
Key Outside Locks or Unlocks Lever

MODEL 605L
Lever Retracts Latch Bolt

CAT. NO.	PREPPED FOR CYLINDER	FINISH
604LCBS	Yes	Brushed Stainless
604LCBRZ	Yes	Dark Bronze
605LBS	No	Brushed Stainless
605LBRZ	No	Dark Bronze

Minimum order: 1 each.

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516B

TOLL Phone: (800) 421-6144
FREE Fax: (800) 262-3299
From Anywhere in the U.S. or Canada

CRL US ALUMINUM

CRL Low Profile Glass Mounting Pads for 1900 Series Rim Panic

NEW!

CRL US ALUMINUM®
MANUFACTURED IN THE USA

- Used When No Exterior Lever Trim is Required
- Designed for Mounting 1900 Series Rim Panics to 1/2" (12 mm) Tempered Glass Gates
- Works With SFIC Rim Cylinder Housing and Core, (All Sold Separately, See Page 518B)
- Great for Commercial Applications Requiring Free Exiting and Secure Entry
- Ideal for Use With CRL's GRS and 1202 Series Tempered Glass Gates (See Pages 502B-507B)

These Low Profile Glass Mounting Pads are designed for mounting CRL 1900 Series Rim Panic Devices (see page 516B) to a 1/2" (12 mm) thick tempered Glass Gate. They are available in three architectural finishes, ready to install. Custom finishes are available upon request. **NOTE:** Glass fabrication is required. Go to **crlaurence.com/gate-hardware** for additional information.

KIT INCLUDES:
Low Profile Glass Mounting Pads for 1900 Series Rim Panic and Matching Coverplate for Back Side of the 1900 Series Rim Panic.

USE MONOLITHIC TEMPERED GLASS

- Custom Finishes, and Sizes Available Upon Request

Single-Sided Handle Sold Separately (see page 519B)
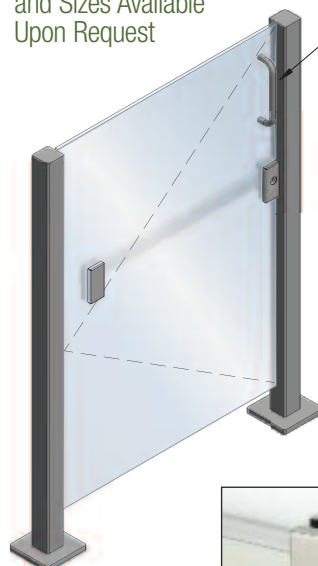
Rim Cylinder Housing and SFIC Core Are Sold Separately (see page 518B)

Mounting Pads Come Prepped For 1900 Series Rim Panic

9/16" (14 mm)

5-1/2" (140 mm)

2-1/4" (57 mm)

Low Profile Glass Mounting Pads
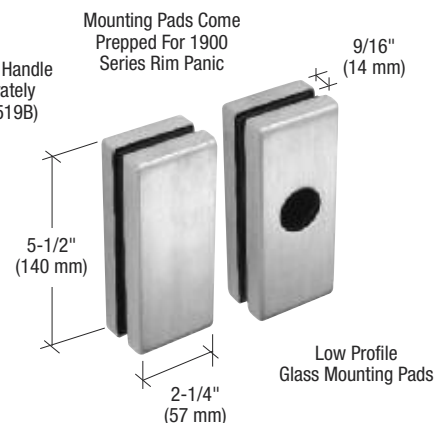
Matching Cover Plate for 1900 Rim Panic, With Pre-installed Cladding Tape (Included)

LOW PROFILE GLASS MOUNTING PADS

CAT. NO.	FINISH
1900LPBS	Brushed Stainless
1900LPPS	Polished Stainless
1900LPBRZ	Dark Bronze

Minimum order: 1 set.

CRL Lever Trim Glass Mounting Pads for 1900 Series Rim Panic

NEW!

CRL US ALUMINUM®
MANUFACTURED IN THE USA

- Designed for Mounting 1900 Series Rim Panics and Lever Trim to 1/2" (12 mm) Tempered Glass Gates
- Works With 1600 Series Lever Trim (Sold Separately, See Page 516B)
- Great for Commercial Applications Requiring Free Exiting and Secure Entry
- Ideal for Use With CRL's GRS and 1202 Series Tempered Glass Gates (See Pages 502B-507B)

These Lever Trim Glass Mounting Pads are designed for mounting CRL 1900 Series Rim Panic Devices and Lever Trim (see page 516B) to a 1/2" (12 mm) thick tempered Glass Gate. They are available in three architectural finishes, ready to install. Custom finishes are available upon request. **NOTE:** Glass fabrication is required. Go to **crlaurence.com/gate-hardware** for additional information.

KIT INCLUDES:
Lever Trim Glass Mounting Pads for 1900 Series Rim Panic and Matching Cover Plate for Back Side of the 1900 Series Rim Panic.

USE MONOLITHIC TEMPERED GLASS

- Custom Finishes, and Sizes Available Upon Request
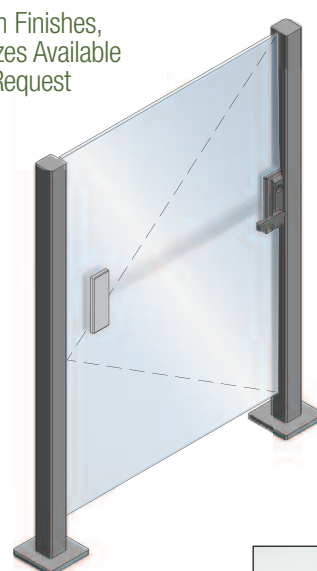
Lever Trim, Mortise Housing, and SFIC Core Are All Sold Separately (see pages 516B and 518B)

Mounting Pads Come Prepped For 1900 Series Rim Panic

9/16" (14 mm)

8-7/8" (225 mm)

2-15/16" (75 mm)

Rim Panic/Lever Trim Glass Mounting Pads
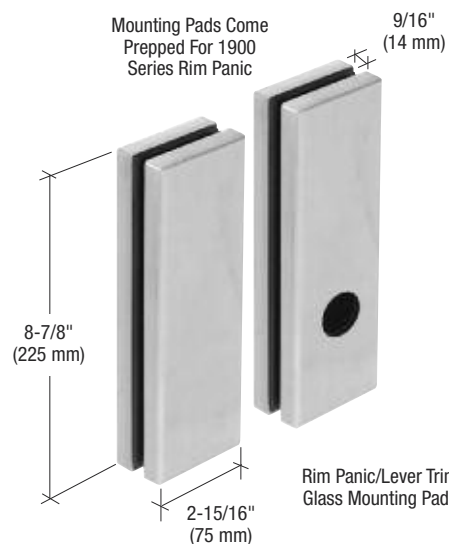
Matching Cover Plate for 1900 Rim Panic, With Pre-installed Cladding Tape (Included)

LEVER TRIM GLASS MOUNTING PADS

CAT. NO.	FINISH
1900SPBS	Brushed Stainless
1900SPPS	Polished Stainless
1900SPBRZ	Dark Bronze

Minimum order: 1 set.

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TOLL Phone: (800) 421-6144
FREE Fax: (800) 262-3299
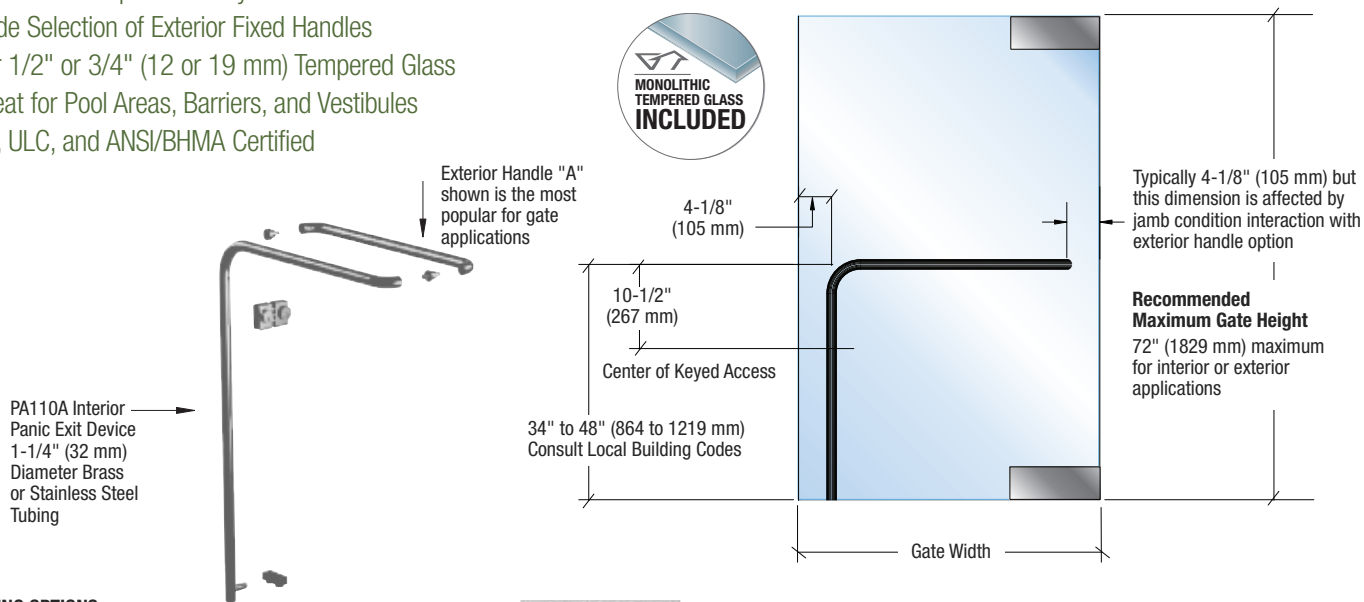From Anywhere in the U.S. or Canada

CRL® US ALUMINUM

CRL Small Format Interchangeable Cores (SFIC)

- Works With CRL GRS Gates
- 7-Pin Type Core Available in 10 Different Key Configurations
- Master Keying Available on Special Order
- Brushed Nickel Finish

CRL stocks 7-Pin Small Format Interchangeable Cores (SFIC) to provide easy key control among end users on many of our products, as well as on BEST®, FALCON®, Schlage®, and other, interchangeable core systems. CRL 7-Pin Cores are the perfect choice for end users that want key control in SFIC hardware applications. CRL Interchangeable Cores can be easily extracted from their housings via a special 'control key' for easy replacement or re-keying.

CAT. NO.	KEY NUMBER	CAT. NO.	KEY NUMBER
1C01	1	1C06	6
1C02	2	1C07	7
1C03	3	1C08	8
1C04	4	1C09	9
1C05	5	1C10	10

Minimum order: 1 each. All SFIC Cores can be combined for quantity pricing.

Minimum order: 1 each. All SFIC Cores can be combined for quantity pricing.

Work With GRS Gate 1900 Series Rim Panic (see page 516B) and Low Profile Glass Mounting Pads (see page 517B)

Rim Cylinder Housing Sold Separately (see below)

For Applications When No Exterior Lever Trim Is Required

ORDERING INFORMATION:
- Each Core comes with one Control Key and two Standard Keys.
- Mortise and Rim Cylinder Housings not included and must be ordered separately if needed (see below).
- Not compatible with larger 'removable' core systems.

CRL Mortise and Rim Cylinder Housings for Small Format Interchangeable Cores (SFIC)

- For Use With 1200, 1295, and 1900 Model Rim Panics
- Compatible With Any 7-Pin SFIC Type Core (See Above)
- For Use With Glass Mounting Pads With or Without Outside Lever Trim (See Page 517B)
- Available in Four Architectural Finishes

Mortise Housing For Use With Lever Trim Glass Mounting Pads (see page 517B)

Rim Cylinder Housing For Use With Low Profile Glass Mounting Pads (see page 517B)

CRL Mortise and Rim Cylinder Housings for 7-Pin Small Format Interchangeable Cores (SFIC) feature an interchangeable cylinder core option and work seamlessly with our 1200, 1295, and 1900 Series Rim Panics. Our Mortise Housings work with Lever Trim Glass Mounting Pads (see page 517B), and our Rim Cylinder Housings work with Low Profile Glass Mounting Pads (see page 517B). Requires a SFIC (Small Format Interchangeable Core), which is sold separately (see above).

MORTISE HOUSING CAT. NO.	RIM CYLINDER HOUSING CAT. NO.	FINISH
1CHBS	2CHBS	Brushed Stainless
1CHPS	2CHPS	Polished Stainless
1CHPB	2CHPB	Polished Brass
1CHSA	2CHSA	Satin Anodized
1CHDU	2CHDU	Black Bronze Anodized

Minimum order: 1 each. Finishes can be combined for quantity pricing.

BEST is a registered trademark of Stanley Security Solutions, Inc.
FALCON and Schlage are registered trademarks of Schlage Lock Company LLC.

Works with GRS Gate 1900 Series Rim Panic (see page 516B) and Lever Trim Glass Mounting Pads (see page 517B)

Interchangeable Core Sold Separately (see above)

Use Mortise Housing for Applications When Exterior Lever Trim Is Required

ORDERING INFORMATION:
- Each Rim Cylinder Housing comes with a 1/4" (6 mm) tall cylinder ring and mounting screws
- Not compatible with larger 'removable' core systems.
- SFIC Cores must be ordered separately (see above).

TOLL Phone: (800) 421-6144
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From Anywhere in the U.S. or Canada

CRL US ALUMINUM

HES® 9600 Series Surface Mount Electric Strike

NEW!

- UL Listed ANSI 250.13 Severe Windstorm Rating
- Florida Building Code Approved (FL#14307)
- UL1034 Burglary-Resistant Listed and Suitable for Outdoor Use
- UL294 (6th Edition) Listed
- ANSI/BHMA A156.31 Grade 1
- RoHS Compliant
- Dual Voltage 12V DC (.45 Amps) or 24V DC (.26 Amps) Continuous Duty

3/4" (19 mm)

9" (229 mm)

1-3/4" (45 mm)

hes
ASSA ABLOY

UL Listed for Burglary Resistance
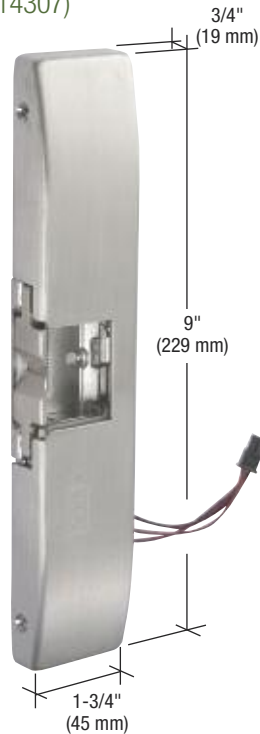
The HES® 9600 Series Surface Mount Electric Strike is windstorm rated and designed to accommodate RIM exit devices with a 3/4" (19 mm) throw latch. All components are completely encased within a 3/4" (19 mm) thick stainless steel housing, so no cutting on the frame is required for installation. Simply place the Electric Strike on the surface of the frame, align it with the exit latchbolt and install. It is field selectable for fail secure and fail safe operation, and for 12 or 24V DC.

CAT. NO.	FINISH
9600BS	Brushed Stainless

Minimum order: 1 each.

HES® 1006CS Smart Strike®

NEW!

- Complete One Box Solution
- Stainless Steel Construction
- Tamper-Resistant
- Static Strength 3,070 Pounds (Fail Secure)
- Dual-Voltage 12V DC (.45 Amps) or 24V DC (.25 Amps) Continuous Duty
- Non-Handed
- Internally Mounted Solenoid
- Rated for Exterior Use

hes
ASSA ABLOY

1-1/4" (32 mm)

4-7/8" (124 mm)

4-1/8" (105 mm)

3-3/8" (86 mm)

UL Listed for Burglary Resistance

Includes:

1006 Strike Body	J Faceplate	KD Faceplate	KM Faceplate	HM Faceplate	AD Faceplate	Brackets
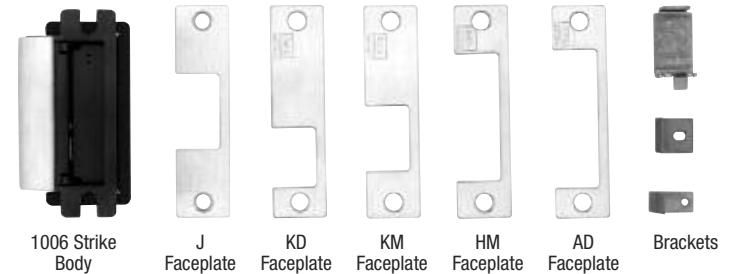
The HES® 1006C Smart Strike® is the strongest and most versatile Electric Strike available. This complete one box solution includes all hardware necessary to fully accommodate any brand of cylindrical or mortise lockset that works with an ANSI 4-7/8" (124 mm) strike plate. It is the only Electric Strike that can release, recapture and contain mortise locks with a 1" (25 mm) deadbolt.

CAT. NO.	FINISH
1006CS	Brushed Stainless

Minimum order: 1 each.

CRL Gate Post Stops

- Choice of Two Lengths
- Brushed Stainless Steel Finish

These CRL Gate Post Stops provide a positive stop when converting a double acting gate into a single acting, one-way gate. Easy to install (screws not included). One per package.

Length

1/2" (13 mm)

1/2" (13 mm)
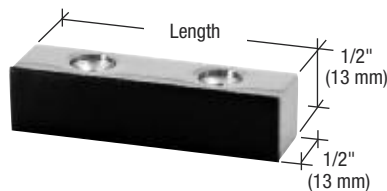
CAT. NO.	LENGTH
1NT307BS	2" (51 mm)
1NT308BS	6" (152 mm)

Minimum order: 1 each. All Gate Stops can be combined for quantity pricing.

CRL 3/4" Diameter Solid Pull Handles for Glass Gates

- Brushed Stainless Single-Sided Handles

Supplied with 1/4"-20 thru-bolts and finish washers. For glass mounting you must order either Standard Cat. No. CAP34BS or Low Profile Cat. No. LPC34BS Cap Assemblies. 1/2" (12 mm) diameter holes are required in glass.
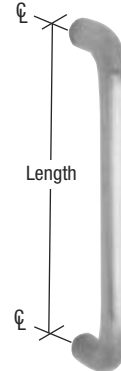
Length

Optional Glass Mount Adapter (Sold Separately)

CAP34BS Standard Cap
LPC34BS Low Profile Cap

CAT. NO.	LENGTH
M163632D	6" (152 mm)
M163832D	8" (203 mm)
M1631032D	10" (254 mm)

Minimum order: 1 each. All Pull Handles can be combined for quantity pricing.

HES and Smart Strike are registered trademarks of Hanchett Systems, Inc., and ASSA ABLOY Group Company.

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CRL US ALUMINUM

CRL Lever Lock Housing

- Low Profile Body Design for Use With 3/8" or 1/2" (10 or 12 mm) Tempered Glass
- Supplied With ANSI A156.2 Grade 1 or Grade 2 Lever Lock
- Non-Handed and Reversible
- Five Architectural Finishes Available
- Four Function Options

USE MONOLITHIC TEMPERED GLASS

Glass Fabrication is required. Installation Instructions and Fabrication Template Included.

CRL's Lever Lock Housings are easy to install and come complete with Housing and Lever Lockset for 3/8" or 1/2" (10 or 12 mm) thick glass. The Entrance and Storeroom models are available with either a Schlage® 'C' 6-Pin keyway or a 7-Pin Small Format Interchangeable Core (SFIC). An ANSI 1-1/4" x 4-7/8" (32 x 124 mm) Strike is included. ANSI Grade 1 is the highest and strongest grade ANSI recognizes for any commercial or residential product. ANSI Grade 2 is a high ANSI grade in security mostly used in residential and light commercial projects. Custom Lever Lock Housings are available upon request.

INTERIOR	EXTERIOR	FUNCTION ANSI NUMBER	FUNCTION DESCRIPTION
		Entrance F 109	Pushing inside button locks outside trim, requiring key to unlock. Pushing and twisting button locks outside lever and always requires a key to unlatch. Inside lever always allows free egress.
		Storeroom F 86	Outside lever always locked. Key unlatches only. Inside lever always allows free egress.
		Passage F 75	Both levers are always free.
		Privacy F 76	Push button locking from inside. Lock can be opened from outside with narrow flat head screwdriver or by rotating inside lever.

CRL Cylindrical Lever Lock Code Compliances

- ANSI A156.2 Grade 1. UL10C and UBC 7.2 for Positive Pressure
- ANSI A117.1 and A.D.A. for Barrier-Free Accessibility
- C-UBC California Amended Uniform Builders Code - 2001
- NFPA-80 National Fire Protection - 1999
- NFPA101 National Fire Protection - Life Safety - 2000

For additional information, contact CRL Technical Sales at (800) 421-6144 in the U.S., (877) 421-6144 from Canada, or (323) 588-1281 International. Ask for Ext. 7730. You can also send e-mail to **railings@crlaurence.com**.

CRL Lever Lock Housing - Entrance

GRADE 1			GRADE 2		
SCHLAGE® 6-PIN CAT. NO.	7-PIN SFIC CAT. NO.	FINISH	SCHLAGE® 6-PIN CAT. NO.	7-PIN SFIC CAT. NO.	FINISH
LH50SA	LH52SA	Satin Anodized	LH55SA	LH57SA	Satin Anodized
LH50PS	LH52PS	Polished Stainless Steel	LH55PS	LH57PS	Polished Stainless Steel
LH50BS	LH52BS	Brushed Stainless Steel	LH55BS	LH57BS	Brushed Stainless Steel
LH50PB	LH52PB	Polished Brass	LH55PB	LH57PB	Polished Brass
LH50DU	LH52DU	Black Bronze Anodized	LH55DU	LH57DU	Black Bronze Anodized

Minimum order: 1 each. All Lever Locksets can be combined for quantity pricing.   Minimum order: 1 each. All Lever Locksets can be combined for quantity pricing.

5" (127 mm)

4-1/2" (114 mm)
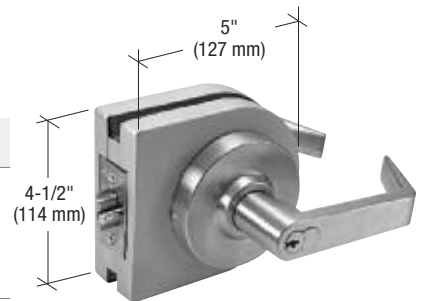
CRL Lever Lock Housing - Storeroom

GRADE 1			GRADE 2		
SCHLAGE® 6-PIN CAT. NO.	7-PIN SFIC CAT. NO.	FINISH	SCHLAGE® 6-PIN CAT. NO.	7-PIN SFIC CAT. NO.	FINISH
LH70SA	LH72SA	Satin Anodized	LH75SA	LH77SA	Satin Anodized
LH70PS	LH72PS	Polished Stainless Steel	LH75PS	LH77PS	Polished Stainless Steel
LH70BS	LH72BS	Brushed Stainless Steel	LH75BS	LH77BS	Brushed Stainless Steel
LH70PB	LH72PB	Polished Brass	LH75PB	LH77PB	Polished Brass
LH70DU	LH72DU	Black Bronze Anodized	LH75DU	LH77DU	Black Bronze Anodized

Minimum order: 1 each. All Lever Locksets can be combined for quantity pricing.   Minimum order: 1 each. All Lever Locksets can be combined for quantity pricing.

5" (127 mm)

4-1/2" (114 mm)

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Schlage is a registered trademark of Allegion plc.

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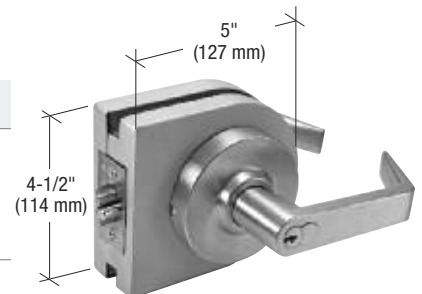
CRL Lever Lock Housing - Passage

5"
(127 mm)

4-1/2"
(114 mm)

GRADE 1		GRADE 2	
CAT. NO.	FINISH	CAT. NO.	FINISH
LH10SA	Satin Anodized	LH15SA	Satin Anodized
LH10PS	Polished Stainless	LH15PS	Polished Stainless
LH10BS	Brushed Stainless	LH15BS	Brushed Stainless
LH10PB	Polished Brass	LH15PB	Polished Brass
LH10DU	Black Bronze Anodized	LH15DU	Black Bronze Anodized

Minimum order: 1 each. All Lever Locksets can be combined for quantity pricing. | Minimum order: 1 each. All Lever Locksets can be combined for quantity pricing.
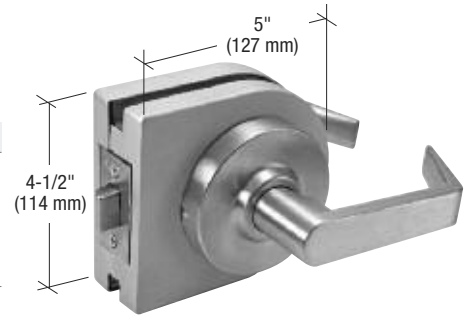
CRL Lever Lock Housing - Privacy

5"
(127 mm)

4-1/2"
(114 mm)

GRADE 1		GRADE 2	
CAT. NO.	FINISH	CAT. NO.	FINISH
LH40SA	Satin Anodized	LH45SA	Satin Anodized
LH40PS	Polished Stainless	LH45PS	Polished Stainless
LH40BS	Brushed Stainless	LH45BS	Brushed Stainless
LH40PB	Polished Brass	LH45PB	Polished Brass
LH40DU	Black Bronze Anodized	LH45DU	Black Bronze Anodized

Minimum order: 1 each. All Lever Locksets can be combined for quantity pricing. | Minimum order: 1 each. All Lever Locksets can be combined for quantity pricing.
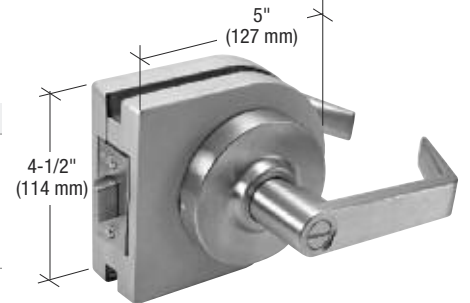
CRL Lever Lock Glass Keepers

- For Use With 1/2" (12 mm) Tempered Glass
- Five Architectural Finishes Available
- Installs Easily With Bolts; No Silicone or Cement Needed

These Glass Keepers are for use on glass panels adjacent to swinging gates using our Lever Lock Housings. They are non-handed and reversible.

NOTE: Glass cut-out is required. When used in a double gate application, the gate with this Glass Keeper must be secured with a lock at the bottom of that gate. Custom Lever Lock Glass Keepers are available upon request.

2-1/4"
(57 mm)

4-1/2"
(114 mm)

USE MONOLITHIC
TEMPERED GLASS

CAT. NO.	FINISH
LHK1SA	Satin Anodized
LHK1PS	Polished Stainless
LHK1BS	Brushed Stainless
LHK1PB	Polished Brass
LHK1DU	Black Bronze Anodized

Minimum order: 1 each. All Lever Lock Keepers can be combined for quantity pricing.
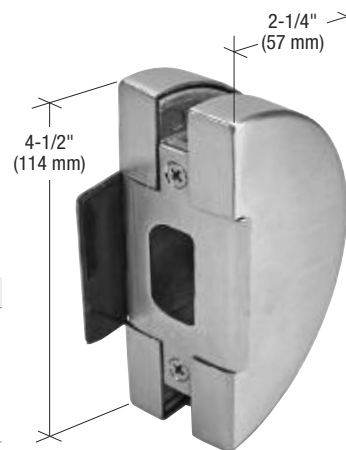
CRL Lever Lock Glass Keepers With Electric Strike

- For Use With 1/2" (12 mm) Tempered Glass
- Five Architectural Finishes Available

These Glass Keepers with Electric Strikes are special ordered and can ship within one week. The Electric Strike is 12V or 24V AC or DC with fail safe or fail secure options. They are non-handed and reversible.

NOTE: Glass cut-out is required. When used in a double gate application, the gate with this Glass Keeper must be secured with a lock at the bottom of that gate. Custom Lever Lock Glass Keepers with Electric Strike are available upon request.

2-1/4"
(57 mm)

4-1/2"
(114 mm)

USE MONOLITHIC
TEMPERED GLASS

FAIL SAFE	FAIL SECURE	
CAT. NO.	CAT. NO.	FINISH
LHE1SA	LHE2SA	Satin Anodized
LHE1PS	LHE2PS	Polished Stainless
LHE1BS	LHE2BS	Brushed Stainless
LHE1PB	LHE2PB	Polished Brass
LHE1DU	LHE2DU	Black Bronze Anodized

Minimum order: 1 each. All Lever Lock Keepers can be combined for quantity pricing.

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521B

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CRL
US ALUMINUM

CRL GRS GATE HARDWARE
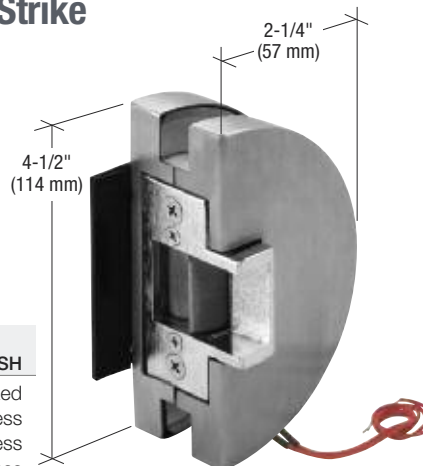
CRL Glass Mounted Latch for Gates Locking into a Metal Frame Stop

- Works on Single Acting Gates
- For 3/8" or 1/2" (10 or 12 mm) Tempered Glass
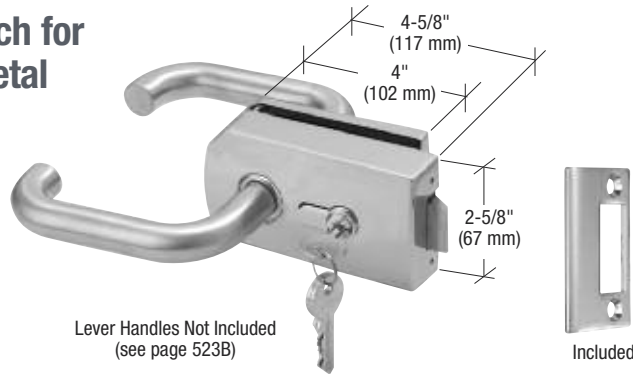
4-5/8" (117 mm)
4" (102 mm)
2-5/8" (67 mm)

Lever Handles Not Included (see page 523B)

Included

GLASS FABRICATION REQUIRED:
Two 1-3/4" (45 mm) Holes

COMES WITH:
EC3 and EC4 Series Cylinder/Thumbturn with 3 Keys each, Template, and Instructions.

USE MONOLITHIC TEMPERED GLASS

CAT. NO.	FINISH
PTH310A	Clear Anodized
PTH310BS	Brushed Stainless
PTH310PS	Polished Stainless

Minimum order: 1 each. All PTH Series Patch Fittings can be combined for quantity pricing.

CRL Glass Mounted Latch

- Works on Single or Double Gates
- For 3/8" or 1/2" (10 or 12 mm) Tempered Glass
- Field Reversible
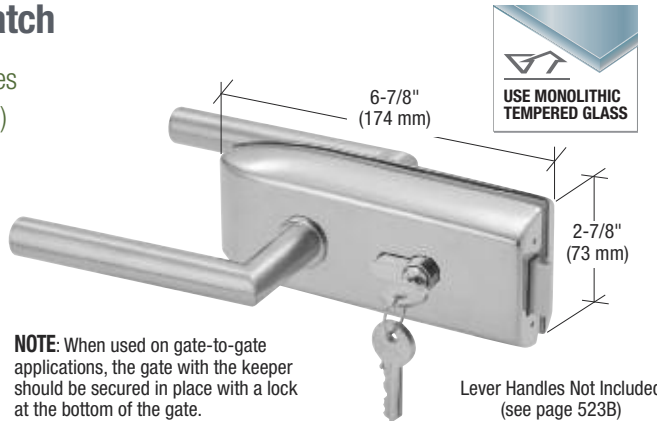
USE MONOLITHIC TEMPERED GLASS

6-7/8" (174 mm)
2-7/8" (73 mm)

SINGLE GATE
PTH311

DOUBLE GATES
PTH311 PTH314

NOTE: When used on gate-to-gate applications, the gate with the keeper should be secured in place with a lock at the bottom of the gate.

Lever Handles Not Included (see page 523B)

The PTH311 comes assembled for use with the EC4 Keyed Cylinder on all outswing gates and on inswing gates without a PTH314 Glass Mounted Latch Keeper. When used on inswing gates with PTH314 Keeper, the EC3 Extended Length Keyed Cylinder must be used.

GLASS FABRICATION REQUIRED:
Two 1-3/4" (45 mm) Holes

COMES WITH:
EC3 and EC4 Series Cylinder/Thumbturn with 3 Keys each, Template, and Instructions.

Included

Cat. No. PTH300L
Replacement Latch Mechanism (Sold Separately)

CAT. NO.	FINISH
PTH311A	Clear Anodized
PTH311BR	Polished Brass
PTH311BS	Brushed Stainless
PTH311PS	Polished Stainless

Minimum order: 1 each. All PTH Series Patch Fittings can be combined for quantity pricing.

CRL Glass Mounted Passage Latch

- Works on Single or Double Gates
- For 3/8" or 1/2" (10 or 12 mm) Tempered Glass

6-7/8" (174 mm)
2-7/8" (73 mm)

SINGLE GATE
PTH312

DOUBLE GATES
PTH312 PTH314

NOTE : When used on gate-to-gate applications, the gate with the keeper should be secured in place with a lock at the bottom of the gate.

Lever Handles Not Included (see page 523B)

GLASS FABRICATION REQUIRED:
Two 1-3/4" (45 mm) Holes

COMES WITH:
Template and Instructions

Included

USE MONOLITHIC TEMPERED GLASS

CAT. NO.	FINISH
PTH312A	Clear Anodized
PTH312BR	Polished Brass
PTH312BS	Brushed Stainless
PTH312PS	Polished Stainless

Minimum order: 1 each. All PTH Series Patch Fittings can be combined for quantity pricing.

CRL Glass Mounted Latch Keeper

- Works With Either Latch Above on Double Gates
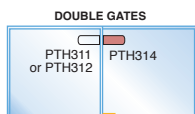
6-7/8" (174 mm)
2-7/8" (73 mm)

USE MONOLITHIC TEMPERED GLASS

DOUBLE GATES
PTH311 or PTH312 PTH314

NOTE : When used on gate-to-gate applications, the gate with the keeper should be secured in place with a lock at the bottom of the gate.
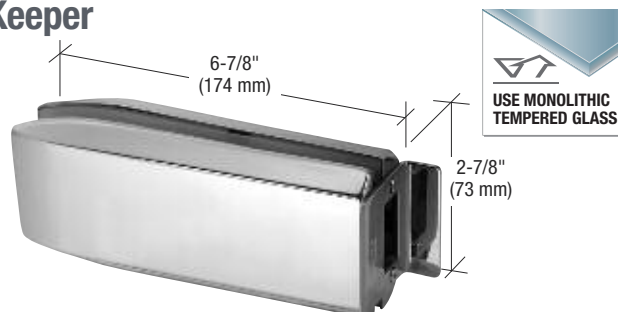
GLASS FABRICATION REQUIRED:
Two 1-3/4" (45 mm) Holes

COMES WITH:
Template and Instructions

CAT. NO.	FINISH
PTH314A	Clear Anodized
PTH314BR	Polished Brass
PTH314BS	Brushed Stainless
PTH314PS	Polished Stainless

Minimum order: 1 each. All PTH Series Patch Fittings can be combined for quantity pricing.

---

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CRL US ALUMINUM

CRL Sculptured Style Lever Handles
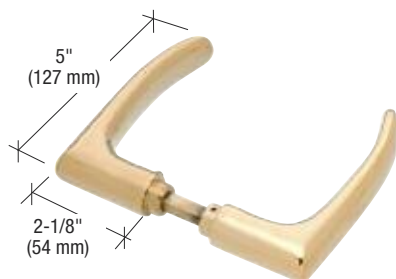
5"
(127 mm)

2-1/8"
(54 mm)

• Available in Three Finishes

FOR USE WITH:
PTH311 and PTH312 Glass Mounted Latch Mechanisms
INCLUDES: Hex Wrench

CAT. NO.	FINISH
PTH303BR	Polished Brass
PTH303BS	Brushed Stainless
PTH303PS	Polished Stainless

Minimum order: 1 set. All Lever Handles can be combined for quantity pricing.

CRL Tubular Style Lever Handles

6"
(152 mm)

2-3/8"
(60 mm)
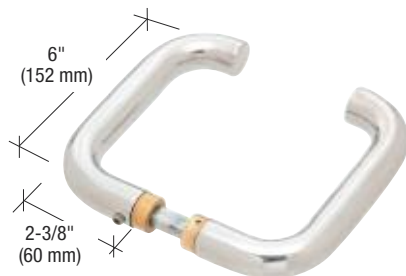
• Available in Four Finishes

FOR USE WITH:
PTH311 and PTH312 Glass Mounted Latch Mechanisms
INCLUDES: Hex Wrench

CAT. NO.	FINISH
PTH302A	Satin Anodized
PTH302BR	Polished Brass
PTH302BS	Brushed Stainless
PTH302PS	Polished Stainless

Minimum order: 1 set. All Lever Handles can be combined for quantity pricing.

CRL Modern Style Lever Handles
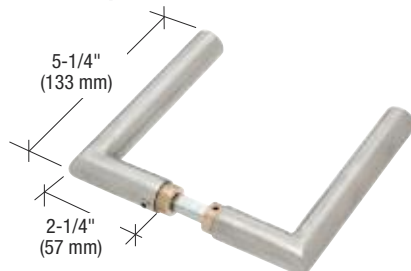
5-1/4"
(133 mm)

2-1/4"
(57 mm)

• Available in Three Finishes

FOR USE WITH:
PTH311 and PTH312 Glass Mounted Latch Mechanisms
INCLUDES: Hex Wrench

CAT. NO.	FINISH
PTH306BR	Polished Brass
PTH306BS	Brushed Stainless
PTH306PS	Polished Stainless

Minimum order: 1 set. All Lever Handles can be combined for quantity pricing.

CRL Extended Length Keyed Cylinders

• Works on PTH311 Series Lever Latch Installation
• Available in Cylinder/Thumbturn
  and Cylinder/Cylinder

EC3 Cylinder/Thumbturn

These Extended
Length Cylinders work
on a PTH311 Series
Lever Latch installation
in conjunction with a
PTH314 Glass Mounted
Latch Keeper on an
inswing gate. Available
keyed randomly or alike.

EC5 Cylinder/Cylinder
Includes 3 Keys and Screw

KEYED RANDOMLY CAT. NO.	KEYED ALIKE CAT. NO.	TYPE	FINISH
EC3BR	EC3BRKA	Cylinder/Thumbturn	Polished Brass
EC3BS	EC3BSKA	Cylinder/Thumbturn	Brushed Stainless
EC3PS	EC3PSKA	Cylinder/Thumbturn	Polished Stainless
EC5BR	EC5BRKA	Cylinder/Cylinder	Polished Brass
EC5BS	EC5BSKA	Cylinder/Cylinder	Brushed Stainless
EC5PS	EC5PSKA	Cylinder/Cylinder	Polished Stainless

Minimum order: 1 each. All Cylinders/Thumbturns can be combined for quantity pricing.

CRL Standard Length Keyed Cylinder With Thumbturn

• Designed to Work in Most PTH311
  Series Lever Latch Installations
• Available in Four Finishes

This Standard Length Key
Cylinder/Thumbturn works
with all PTH311 Series Latches,
except when the latch is used
with a PTH314 Series Glass
Mounted Latch Keeper on an
inswing gate. This requires the
EC3 or EC5 Series Extended
Length Cylinders at the left.
The EC4 Series is only available
keyed randomly.

Includes 3 Keys and Screw

CAT. NO.	FINISH
EC4A	Matte Chrome
EC4BR	Polished Brass
EC4BS	Brushed Stainless
EC4PS	Polished Stainless

Minimum order: 1 each. All Cylinders/Thumbturns can be combined for quantity pricing.

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CRL BLUMCRAFT® GATE SYSTEMS

CRL Blumcraft® Free-Standing Post Gate Systems

- Gates Completely Built and Assembled With 1/2" or 3/4" (12 or 19 mm) Tempered Glass to Customer's Specifications
- Available in Brushed or Polished Stainless Steel
- Custom Painted Finishes are Available Upon Request

BLUMCRAFT®
A DIVISION OF C.R. LAURENCE CO., INC.

CRL Blumcraft® Free-Standing Gate Posts are installed in many prestigious buildings throughout North America. Years of experience in the field have resulted in glass gates of unparalleled quality and design excellence, featuring more glass and less metal. The gates operate on the principle of being anchored to the floor only. The gates are designed with 1/2" or 3/4" (12 or 19 mm) thick tempered glass and can be plumbed, leveled, and adjusted after installation. **NOTE**: Gate size not to exceed 48" x 72" (1219 x 1829 mm).

For additional information, contact CRL Railing Technical Sales at (800) 421-6144 in the U.S., 877-421-6144 from Canada, or (323) 588-1281 International, and ask for Ext. 7730. You may also send email to **railings@crlaurence.com**.

Without Top Rail
With Blumcraft® Handle

With Metal Top Rail

MONOLITHIC TEMPERED GLASS INCLUDED

Without Top Rail

CRL BLUMCRAFT® FREE-STANDING POST GATE SYSTEMS

CAT. NO.	FINISH
BCG1BSC	Brushed Stainless
BCG1PSC	Polished Stainless
BCG1PTC	Custom Painted (Specify Color)

Minimum order: 1 each
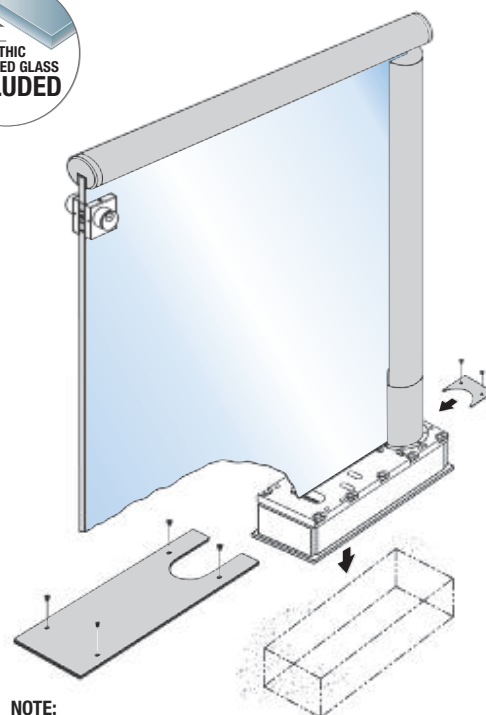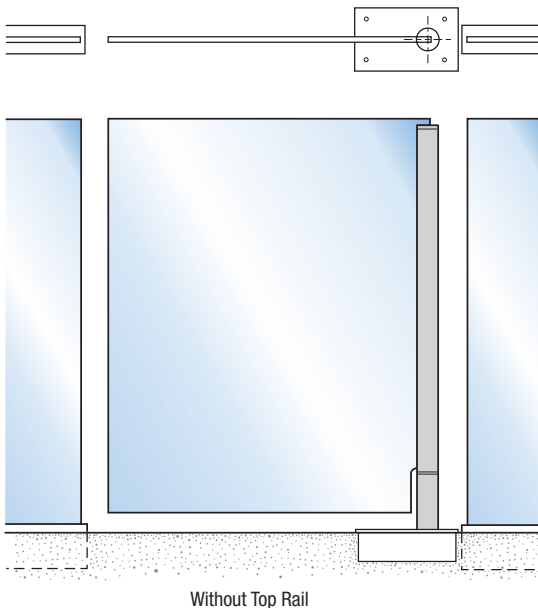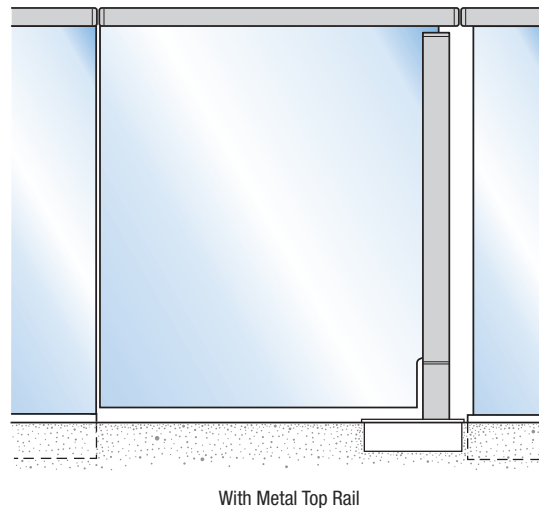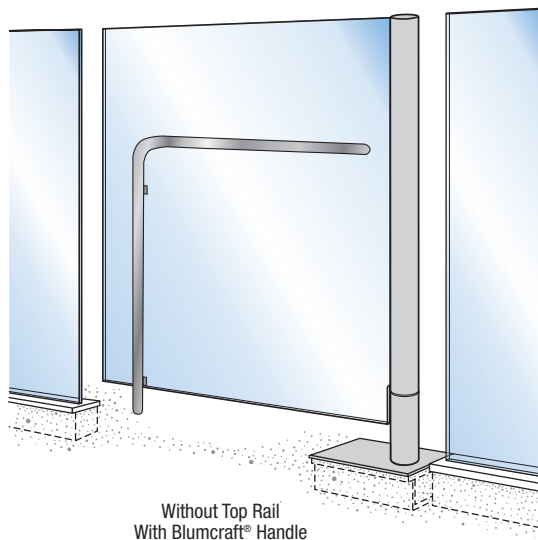
NOTE:
When Locks or Latches are used, a Hinged Top Pivot is recommended.

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TOLL Phone: (800) 421-6144
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CRL US ALUMINUM

CRL Blumcraft® PA110 Series Panic Handles for Gate Applications

BLUMCRAFT®
A DIVISION OF C.R. LAURENCE CO., INC.

- Bottom Latching Handles for Use With GRS, 1202 Series Gates or Blumcraft® Gates
- Supplied With Tempered Glass and Hardware Complete Factory Assemblied
- Wide Selection of Exterior Fixed Handles
- For 1/2" or 3/4" (12 or 19 mm) Tempered Glass
- Great for Pool Areas, Barriers, and Vestibules
- UL, ULC, and ANSI/BHMA Certified

- Available in Polished and Brushed Stainless, Satin and Polished Brass, and Oil Rubbed Bronze
- Custom Finishes Available By Special Order

MONOLITHIC TEMPERED GLASS INCLUDED

Exterior Handle "A" shown is the most popular for gate applications

4-1/8" (105 mm)

10-1/2" (267 mm)

Center of Keyed Access

34" to 48" (864 to 1219 mm) Consult Local Building Codes

Typically 4-1/8" (105 mm) but this dimension is affected by jamb condition interaction with exterior handle option

Recommended Maximum Gate Height
72" (1829 mm) maximum for interior or exterior applications

Gate Width

PA110A Interior Panic Exit Device 1-1/4" (32 mm) Diameter Brass or Stainless Steel Tubing

ORDERING OPTIONS

When ordering PA110 Series Panics you must specify:
- PA110 (interior mechanism as shown above)
- Exterior Handle Style
- Handing (as viewed from the exterior side of gate)
- Rail or Glass Mount
- Glass Thickness
- With or Without Exterior Keyed Access Device
- Floor Mount or Threshold Ramp Strike
- Finish

UL **BHMA CERTIFIED**

Gate Swing Diagram

6	5	Interior	2	1
	4	3		
		Exterior		

CRL Custom Commercial Saddle Thresholds and Floor Closer Cover Plates
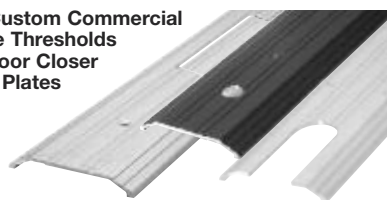
Exterior Handle Combinations

| Handle A | Handle C | Handle E | Handle K | Handle K-S | Handle N | Handle Y |
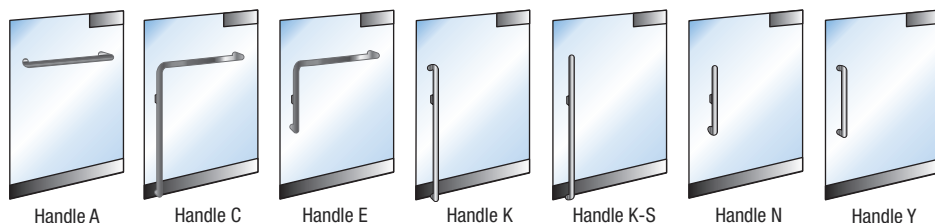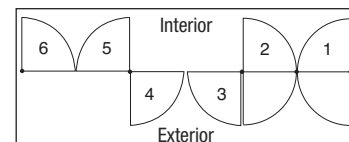
All Configurations are UL, ULC, and ANSI/BHMA Certified.

PA110 Series Panic Handle Details

| Glass Mount Detail at Latch | Rail Mount Detail at Latch | Keyed Access | FRS01F - Floor Mount Strike | TRSP1 T-Hold Mount Ramp Strike |
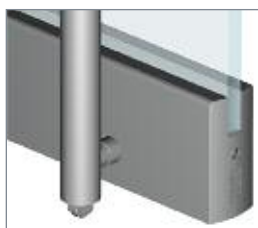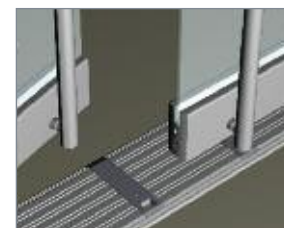
Contact Railing Technical Sales at (800) 421-6144 in the U.S., (877) 421-6144 from Canada, or (323) 588-1281 International, and ask for Ext. 7730.
You can also send e-mail to **railings@crlaurence.com**.

NOTE: All Access Control Handles on this page may only be purchased as a kit that is factory assemblied with glass.
UL is a registered trademark of UL LLC.

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CRL U.S.ALUMINUM

CRL Polaris Series "Soft-Close" Hinges

NEW!

USE MONOLITHIC
TEMPERED GLASS

- An Ideal Safety Aid for Pool Gate Applications
- No Hold Open, Soft-Closing Action From a Full 90 Degrees
- Constructed of 2205 Grade Stainless Steel to Withstand Harsh Environments
- Three Mounting Methods to Choose From
- Require Cut-Out in the Glass

The New Polaris Series "Soft-Close" Hinges represent an excellent choice for safety consideration in pool gate applications. These No Hold Open Hinges will "soft-close" from a full 90 degrees, thus allowing entry into the pool area by use of a spring, high powered magnets, and shock absorbers, without the gate slamming.

These stylish, geometrically shaped Hinges are constructed of 2205 grade stainless steel and are designed to provide resistance to wet environments and chemicals. Suitable for 3/8" and 1/2" (10 and 12 mm) thick tempered glass, the Polaris Series Hinges are offered in durable polished or brushed stainess steel finishes. Sold by the pair.

SPECIFICATIONS:
Glass Thickness Range: 3/8" and 1/2" (10 and 12 mm)
Material: 2205 Grade Stainless Steel
Hinge Swings: 90 Degrees Outward
Closing Type: "Soft-Close" From Up to 90 Degrees
Glass Cutout Required
Maximum Capacity Using Two Hinges: Gate Width 37" (950 mm), Gate Height 59" (1500 mm), Gate Weight 100 Pounds (45 kg)
NOTE: Do not exceed gate width, gate height, or gate weight maximum capacity. Do not use more than two hinges. Sold by the pair.

3-15/16" (100 mm)
4-3/16" (107 mm)
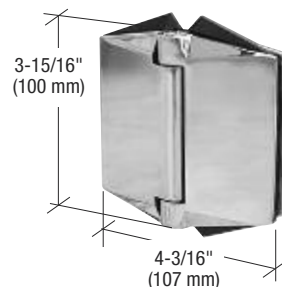
MODEL P0L180120
180 Degree Glass-to-Glass Mount

One Safety Cap is included with each pair of Hinges. The Safety Cap is used on the bottom Hinge to help prevent someone from using it as a foothold for climbing over the fence.

2-15/16" (75 mm)
3-15/16" (100 mm)
2" (51 mm)
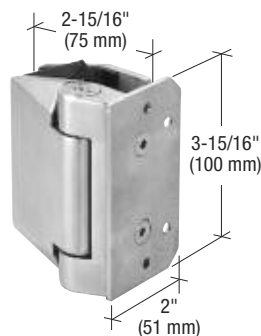
MODEL P0L037120
Glass-to-Wall Mount

2-15/16" (75 mm)
3-15/16" (100 mm)
2" (51 mm)
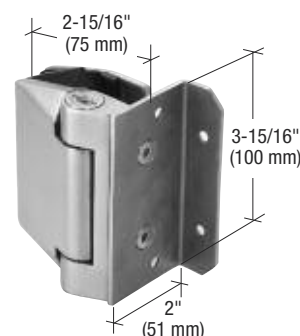
MODEL P0L544120
Glass-to-Square Post Mount

CAT. NO.	MOUNTING STYLE	FINISH
P0L180120BS	180 Degree Glass-to-Glass	Brushed Stainless
P0L180120PS	180 Degree Glass-to-Glass	Polished Stainless
P0L037120BS	Glass-to-Wall	Brushed Stainless
P0L037120PS	Glass-to-Wall	Polished Stainless
P0L544120BS	Glass-to-Square Post	Brushed Stainless
P0L544120PS	Glass-to-Square Post	Polished Stainless

Minimum order: 1 pair.

CRL Self-Closing 180 Degree Glass-to-Glass Hinge

USE MONOLITHIC
TEMPERED GLASS

- Self-Closing Black Molded Polymer Heavy-Duty Hinges Designed for Interior and Exterior Use
- For Use With 1/2" (12 mm) Tempered Glass, Custom Sizes Available Upon Request
- 316 Grade Stainless Steel Mounting Pads
- Tension Adjustable Using Only a Screwdriver
- Requires Holes in the Glass

CRL's Self-Closing Glass-to-Glass Gate Hinges have been designed for use in pool enclosures, balconies, fencing, and any application where gates are required. Two 5/8" (16 mm) diameter holes are required for each side of the hinge (two on fixed panel and two on the gate). This heavy-duty hinge is set up to support weights from 55 pounds (25 kg) to 132 pounds (60 kg), and to support gates up to 48" (1219 mm) wide and up to 72" (1829 mm) tall. Hinges swing outward only. Sold individually.

Recommended 1/4" (6 mm) Gap
6" (152 mm)
Exterior View
3-1/4" (83 mm)
Interior View

Glass fabrication is required. Installation instructions and fabrication template included.

CAT. NO.	FINISH
MLSP6BS	Brushed Stainless
MLSP6PS	Polished Stainless

Minimum order: 1 each.

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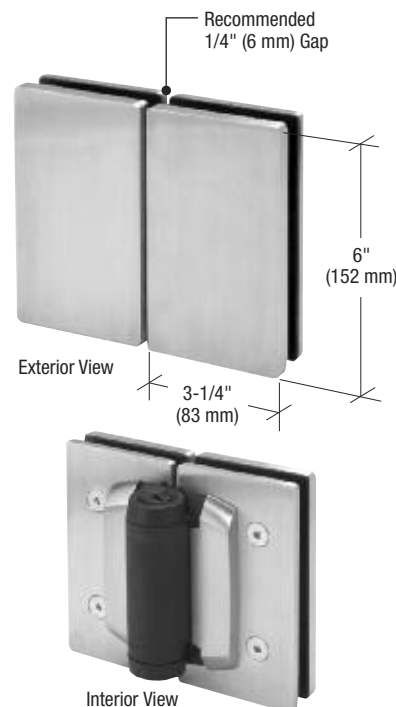
CRL Vernon Series Hydraulic 'All-Glass' Gate Hinges

- For Self-Closing Glass Gates From 3/8" to 1/2" (10 to 12 mm) Thick
- A Great Alternative to Floor Closers and Patch Fittings
- Wall Mount Hinges Offered in Two Back Plate Styles

NEW!

USE MONOLITHIC TEMPERED GLASS

- No Hold Open Models
- Adjustable Closing Speed
- Aluminum Body in Your Choice of Three Finishes: Brite Chrome, Brushed Satin, and Satin Anodized
- Require Cut-Out in the Glass

The Vernon Hinge represents the evolution and the synthesis between automatic mechanical hinges and hydraulic door closers. Designed for use on gates, Vernon allows you to design a self-closing gate without the need of a floor-mounted or overhead closing device. This gives you the advantage of being able to install an 'all-glass' gate in an existing opening without the need for extensive retrofitting of hardware into the floor.

Properly mounted, two Vernon Hinges will support a 3/8" to 1/2" (10 to 12 mm) thick tempered glass gate up to 39" (1 m) in width and weighing up to 220 pounds (100 kg). A control valve lets you adjust the hinge to the desired closing speed. Vernon is ambidextrous, with positive stops at 0 and 90 degrees, giving you even more design freedom.

The Vernon Hinge features an aluminum body in distinct configurations for Wall Mount and Glass-to-Glass applications. Vernon has been subjected to strict testing (over 1 million cycles), assuring long lasting service.

SPECIFICATIONS:
Glass Thickness Range:
3/8" to 1/2" (10 to 12 mm)

Material: Aluminum

Hinge Swings:
90 Degrees Inwards and Outwards (Except H8260BT Model, Which Swings One Way Only)

Closing Type:
Automatic Closing From 0 to 80 Degrees

Special Feature:
Adjustable Closing Speed

Cut-Out Required

Includes:
Snap-In Molded Gaskets for 3/8" (10 mm) and 1/2" (12 mm) Glass; Hex Screws

Maximum Capacities Using Two Hinges:
Gate Width: 39" (1 m);
Gate Weight: 220 pounds (100 kg)
Do not exceed either width or weight.

NOTE: Do not use more than two hinges on one gate. Pool Gate applications require No Hold Open Hinges. For Hold Open Hinges go to **crlaurence.com**.

Wall Mount Hinges

No Hold Open Hinges swing in and out a full 90 degrees. Closing speed can be adjusted. For gates up to 39" (1 m) wide. Maximum weight per two hinges is 220 pounds (100 kg).

FULL BACK PLATE CAT. NO.	OFFSET BACK PLATE CAT. NO.	FINISH
H8210BTCH	H8211BTCH	Brite Chrome
H8210BTSN	H8211BTSN	Brushed Satin
H8210BTSA	H8211BTSA	Satin Anodized

Minimum order: 1 each. All Frameless Hinges can be combined for quantity pricing. **NOTE:** 'All-Glass' Hinges are sold individually, not in pairs.

180 Degree Glass-to-Glass Hinge

No Hold Open Hinges swing in and out a full 90 degrees. Closing speed can be adjusted. For gates up to 39" (1 m) wide. Maximum weight per two hinges is 220 pounds (100 kg).

CAT. NO.	FINISH
H8215BTCH	Brite Chrome
H8215BTSN	Brushed Satin
H8215BTSA	Satin Anodized

Minimum order: 1 each. All Frameless Hinges can be combined for quantity pricing. **NOTE:** 'All-Glass' Hinges are sold individually, not in pairs.

One Way Swinging Wall Mount Hinge

No Hold Open Hinges ideal for hermetic closing. Swings one way a full 90 degrees. Closing speed can be adjusted. For gates up to 39" (1 m) wide. Maximum weight per two hinges is 220 pounds (100 kg).

CAT. NO.	FINISH
H8260BTCH	Brite Chrome
H8260BTSN	Brushed Satin
H8260BTSA	Satin Anodized

Minimum order: 1 each. All Frameless Hinges can be combined for quantity pricing. **NOTE:** 'All-Glass' Hinges are sold individually, not in pairs.

2-1/8" (54 mm)
4-1/4" (108 mm)
2-7/8" (73 mm)
Full Back Plate

2" (51 mm)
4-1/4" (108 mm)
2-7/8" (73 mm)
Offset Back Plate

4-1/4" (108 mm)
2-7/8" (73 mm)
2-7/8" (73 mm)
180 Degree Glass-To-Glass
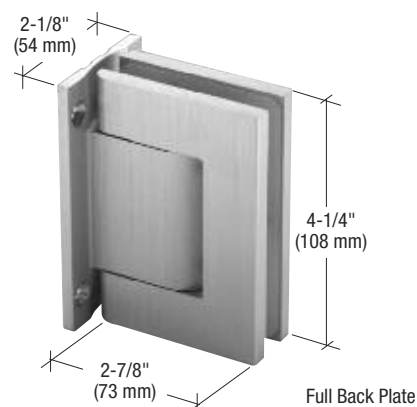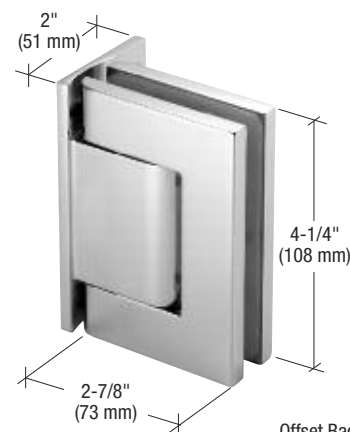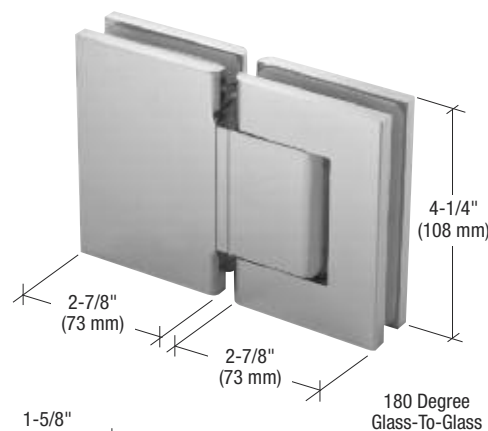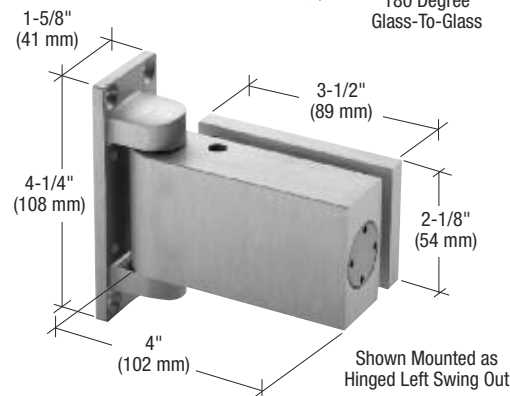
1-5/8" (41 mm)
3-1/2" (89 mm)
4-1/4" (108 mm)
2-1/8" (54 mm)
4" (102 mm)
Shown Mounted as Hinged Left Swing Out

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TOLL Phone: (800) 421-6144
FREE Fax: (800) 262-3299
From Anywhere in the U.S. or Canada

CRL US ALUMINUM

CRL Single-Acting Self-Centering Wall-to-Glass Gate Hinge

USE MONOLITHIC TEMPERED GLASS

- For Light Duty Use Only
- Handed "Gravity" Hinge for Use With 3/8" or 1/2" (10 or 12 mm) Tempered Glass
- All 316 Grade Brushed or Polished Stainless Steel

3-1/2" (89 mm)

2-11/16" (68 mm)

LH/RHR Shown
Wall Mount Hinge

3-1/2" (89 mm)

1.9" (48 mm) Diameter Post Adaptor Plate

CRL Single Acting Wall-to-Glass Gate Hinges are handed and self-centering. They can be screwed to the wall or to a 1.9" (48 mm) diameter post if used with the Adaptor Plate (sold separately). Two 3/4" (19 mm) holes are required for each Hinge. Maximum width 42" (1067 mm); maximum weight 65 lbs. (29.5 kg). Instructions, cut-out template and two #10 x 1-1/2" mounting screws are included in each box. **WARNING:** Not for pool gates.

WALL-TO-GLASS HINGES

BRUSHED STAINLESS CAT. NO.	POLISHED STAINLESS CAT. NO.	HANDING
GH037LBS	GH037LPS	LH/RHR
GH037RBS	GH037RPS	RH/LHR

Minimum order: 1 each. All Gate Hinges can be combined for quantity pricing.

1.9" DIAMETER POST ADAPTOR PLATE

BRUSHED STAINLESS CAT. NO.	POLISHED STAINLESS CAT. NO.	HANDING
AP037BS	AP037PS	Universal

Minimum order: 1 each.

CRL Single-Acting Self-Centering Glass-to-Glass Gate Hinge

USE MONOLITHIC TEMPERED GLASS

- Handed "Gravity" Hinge for Use With 3/8" or 1/2" (10 or 12 mm) Tempered Glass
- All 316 Grade Brushed or Polished Stainless Steel

LH/RHR Shown

2-11/16" (68 mm)

3-1/2" (89 mm)

Gate Side   Fixed Glass Side

Left Hand (LH)
Inside
Outside
Hinge Side   Strike Side

Right Hand (RH)
Inside
Outside
Strike Side   Hinge Side

Left Hand Reverse (LHR)
Inside
Outside
Hinge Side   Strike Side

Right Hand Reverse (RHR)
Inside
Outside
Strike Side   Hinge Side

How to Determine Handing
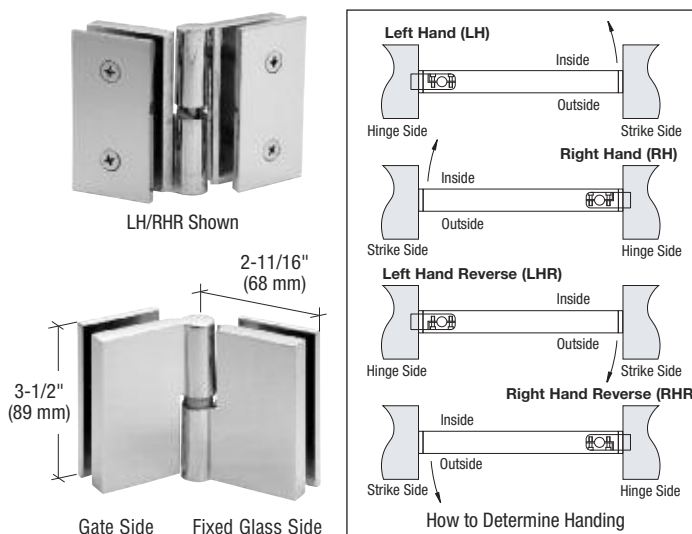
CRL Single Acting Glass-to-Glass Gate Hinges are handed and self-centering. Two 3/4" (19 mm) holes are required for each side of the hinge (two on fixed panel and two on the gate). Maximum width 42" (1067 mm); maximum weight 65 lbs. (29.5 kg). Instructions and cut-out template are included in each box.
WARNING: Not for pool gates.

BRUSHED STAINLESS CAT. NO.	POLISHED STAINLESS CAT. NO.	HANDING
GH180LBS	GH180LPS	LH/RHR
GH180RBS	GH180RPS	RH/LHR

Minimum order: 1 each. All Gate Hinges can be combined for quantity pricing.

CRL Tubing Hinge

- Free-Swinging Hinge for Use With 1.9" (48 mm) Diameter Tubing
- 316 Grade Brushed Stainless Steel

1-13/16" (46 mm)

1-9/32" (33 mm)

This CRL Tubing Hinge is designed to work with 1.9" (48 mm) diameter tubing. The Hinge is free-swinging and pivots on a nylon bearing. Hinge is secured with supplied screws. Maximum width 42" (1067 mm); maximum weight 65 lbs. (29.5 kg). Minimum order is one each.

CAT. NO. TH12BS

CRL Tubing Latch and Strike

- Manually Operated Latch Bar for Use With 1.9" (48 mm) Diameter Tubing
- 316 Grade Brushed Stainless Steel

3-1/4" (83 mm)

1-13/16" (46 mm)

1-9/32" (33 mm)

3/4" (19 mm)
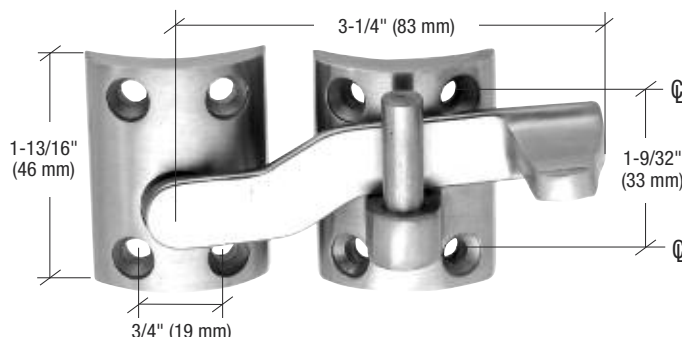
This CRL Tubing Latch and Strike is designed to work with 1.9" (48 mm) diameter tubing. Latch has a manually operated pivoting bar, and is secured with supplied screws. Minimum order is one each.

CAT. NO. TL22BS

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TOLL Phone: (800) 421-6144
FREE Fax: (800) 262-3299
From Anywhere in the U.S. or Canada

CRL US ALUMINUM

CRL 180 Degree Glass-to-Glass Gate Latch

- Designed for 1/2" (12 mm) Tempered Glass Applications Only

This Glass-to-Glass Gate Latch is mounted to the inside of the opening for out-swinging gates.

Swinging Panel
Outside
Fixed Panel

Glass fabrication is required. Installation instructions and fabrication template included in package.

USE MONOLITHIC TEMPERED GLASS
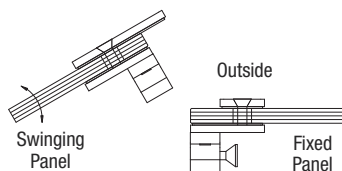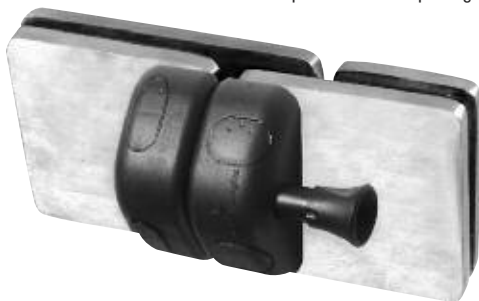
CAT. NO.	FINISH
MLSP2BS	Brushed Stainless
MLSP2PS	Polished Stainless

Minimum order: 1 each. MLSP Series Latches can be combined for quantity pricing.

CRL Wall/Square Post Mount Gate Latch

- Designed for 1/2" (12 mm) Tempered Glass Applications Only

This Gate Latch is mounted to the inside of the opening for out-swinging gates. The Gate Latch is designed for square post and wall mount applications. 3/16" (5 mm) diameter attachment fasteners are sold separately for mounting to wood, concrete, or metal (choose appropriately).

Outside
Wall
Swinging Panel

Glass fabrication is required. Installation instructions and fabrication template included in package.

USE MONOLITHIC TEMPERED GLASS
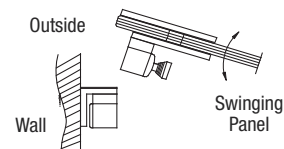
CAT. NO.	FINISH
MLSP4BS	Brushed Stainless
MLSP4PS	Polished Stainless

Minimum order: 1 each. MLSP Series Latches can be combined for quantity pricing.

CRL 90 Degree Glass-to-Glass Gate Latch

- Designed for 1/2" (12 mm) Tempered Glass 90 Degree Corner Applications

This Glass-to-Glass Gate Latch is mounted to the inside of the opening for out-swinging gates.

Outside
Fixed Panel
Swinging Panel

Glass fabrication is required. Installation instructions and fabrication template included in package.

USE MONOLITHIC TEMPERED GLASS
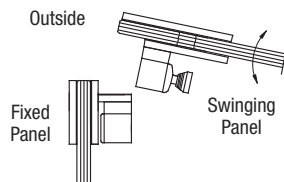
CAT. NO.	FINISH
MLSP3BS	Brushed Stainless
MLSP3PS	Polished Stainless

Minimum order: 1 each. MLSP Series Latches can be combined for quantity pricing.

CRL 1.9" Round Post Mount Gate Latch

- Designed for 1/2" (12 mm) Tempered Glass Applications Only

This Gate Latch is mounted to the inside of the opening for out-swinging gates. The Gate Latch is designed for round post mount applications. 3/16" (5 mm) diameter attachment fasteners are sold separately for mounting to wood, concrete, or metal (choose appropriately).

Outside
1.9" Round Post
Swinging Panel

Glass fabrication is required. Installation instructions and fabrication template included in package.

USE MONOLITHIC TEMPERED GLASS
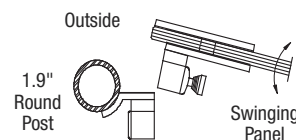
CAT. NO.	FINISH
MLSP5BS	Brushed Stainless
MLSP5PS	Polished Stainless

Minimum order: 1 each. MLSP Series Latches can be combined for quantity pricing.

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TOLL Phone: (800) 421-6144
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CRL US ALUMINUM

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CRL ARS AND AWS GATE SYSTEMS

System: AWS Aluminum Windscreen Double Gate
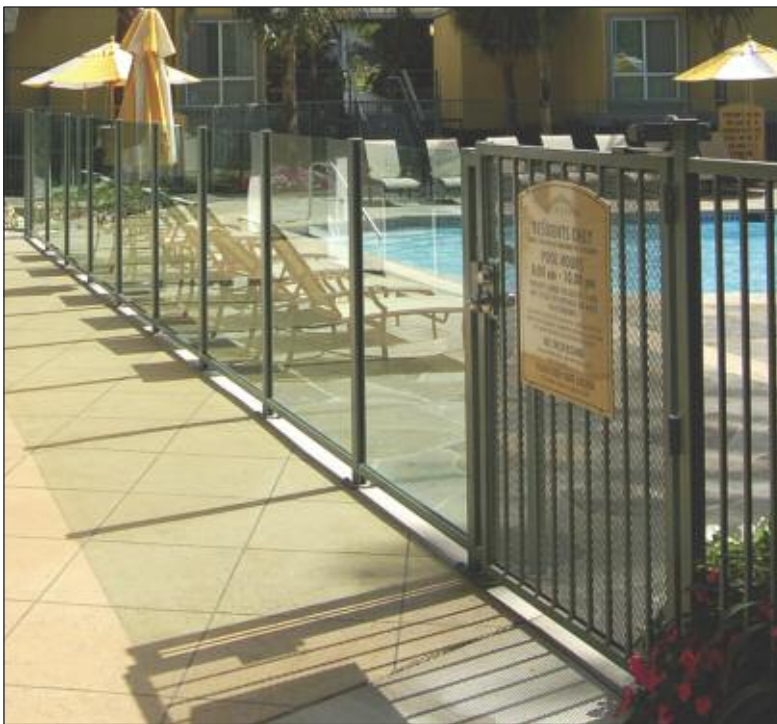
System: AWS Aluminum Windscreen Gate With Pickets and Mesh
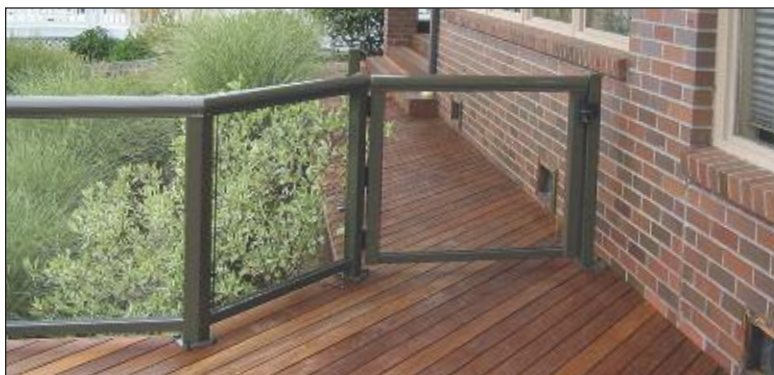
System: ARS 300 Series Aluminum Railing Gate

System: ARS 100 Series Aluminum Railing Double Gate With Picket Infills

System: AWS Aluminum Windscreen Gate With Obscure Glass

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TOLL Phone: (800) 421-6144
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CRL US ALUMINUM

CRL ARS Stock Size Glass and Picket Gates

- Ready to Install Stock Gate Sizes for 100, 200, 300, and 350 Series Railings
- Picket Infills (Included) or Glass (Not Included)
- Welded and Finished With Powder Coating

- Seven Standard Powder Coated Finishes, Plus Unfinished Treated Mill Aluminum
- Designed for 36" Wide x 42" Tall Railing Systems, With Custom Sizes Available (See Page 534B)

USE MONOLITHIC TEMPERED GLASS

CRL offers a wide selection of Stock Size Gates for our Aluminum Railing Series. They are available in both glass (not included) and picket (included) applications in seven standard colors. Gates come fully fabricated, powder coated, and assembled to fit a standard 36" (914 mm) wide opening by 42" (1067 mm) standard railing height. Custom gate sizes are also available. **NOTE:** All Gate Hardware is sold separately (see pages 538B-548B). For additional information, contact CRL Railing Technical Sales at (800) 421-6144 in the U.S., (877) 421-6144 from Canada, or (323) 588-1281 International, and ask for Ext. 7730.

STANDARD COLORS

| Sky White Gloss | Oyster White Gloss | Agate Gray Gloss | Beige Gray Gloss | Black Matte | Bronze Matte | Silver Metallic |

Colors shown are representative only, and may vary slightly from actual gloss, color, and texture. If color match is critical, please contact Technical Sales for additional information.

Additional Color Options - CRL has over 250 quick turn custom color options with the ability to color match as well.

Typical 100 Series Gate Elevation

Self-Latching Lock

Gate Height

42" (1067 mm) Overall Railing Height

4" (102 mm)

34-3/4" (883 mm) Gate Width

3/4" (19 mm)   1/2" (13 mm)   4" (102 mm)
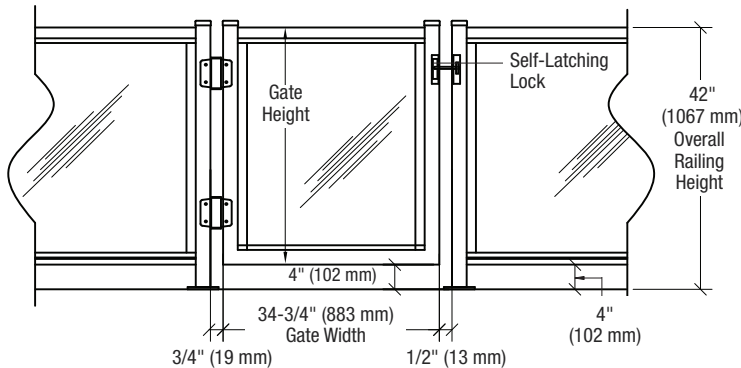
Typical 300 Series Gate Elevation

Gate Height

42" (1067 mm) Overall Railing Height

3" (76 mm)

3" (76 mm)

34-3/4" (883 mm) Gate Width

3/4" (19 mm)   1/2" (13 mm)
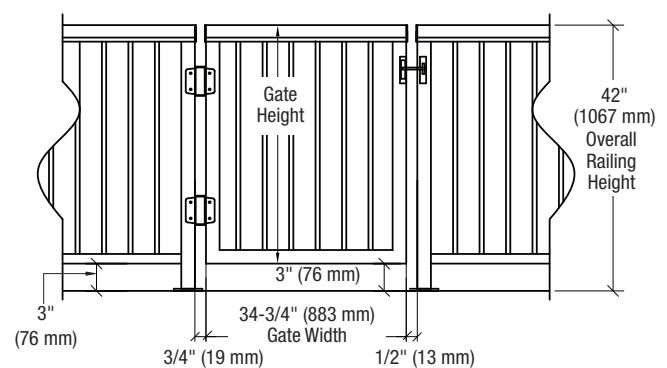
STOCK SIZE ALUMINUM RAILING GATES FOR 1/4" TO 3/8" (6 TO 10 MM) GLASS (NOT INCLUDED)

CAT. NO.*	TOP RAIL	FITS OPENING (W X H)	ACTUAL GATE SIZE (W X H)	BOTTOM RAIL GAP
1GG3642	100 Series	36" x 42" (914 x 1067 mm)	34-3/4" x 38-3/8" (883 x 975 mm)	4" (102 mm)
2GG3642	200 Series	36" x 42" (914 x 1067 mm)	34-3/4" x 40-5/8" (883 x 1032 mm)	3" (76 mm)
3GG3642	300 Series	36" x 42" (914 x 1067 mm)	34-3/4" x 41-11/16" (883 x 1059 mm)	3" (76 mm)
35GG3642	350 Series	36" x 42" (914 x 1067 mm)	34-3/4" x 40-13/16" (883 x 1037 mm)	3" (76 mm)

Minimum Order: 1 each. * Specify powder coat color when ordering. Must ship common carrier.

STOCK SIZE ALUMINUM RAILING GATES WITH PICKETS (INCLUDED)

CAT. NO.*	TOP RAIL	FITS OPENING (W X H)	ACTUAL GATE SIZE (W X H)	BOTTOM RAIL GAP
1PG3642	100 Series	36" x 42" (914 x 1067 mm)	34-3/4" x 38-3/8" (883 x 975 mm)	4" (102 mm)
2PG3642	200 Series	36" x 42" (914 x 1067 mm)	34-3/4" x 40-5/8" (883 x 1032 mm)	3" (76 mm)
3PG3642	300 Series	36" x 42" (914 x 1067 mm)	34-3/4" x 41-11/16" (883 x 1059 mm)	3" (76 mm)
35PG3642	350 Series	36" x 42" (914 x 1067 mm)	34-3/4" x 40-13/16" (883 x 1037 mm)	3" (76 mm)

Minimum Order: 1 each. * Specify powder coat color when ordering. Must ship common carrier.

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TOLL Phone: (800) 421-6144
FREE Fax: (800) 262-3299
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or enter the Catalog Number for complete product information

CRL ARS Custom Gate Systems

- Passage, Driveway, Door Style Glass, or Picket Gates are Available
- We Can Fabricate Custom Styles From Stock Components
- Tension Adjustable Self-Closing Hinge is Standard
- Available Gate Latch, Knob Latch, Electronic Magnetic Latch, and Panic Hardware Options
- Seven Standard Colors, Plus Treated Mill Aluminum
- Custom Colors Also Available

US ALUMINUM
MANUFACTURED IN THE USA

USE MONOLITHIC TEMPERED GLASS

or

USE LAMINATED TEMPERED GLASS

Aluminum Rail System Gates are an integral part of most commercial, multi-family, and residential projects. Your choice of gate designs range from basic swinging gates to customized automatic or manual gates. CRL Gates can accommodate standard, electronic or remotely operated locksets, as well as a variety of opening mechanisms. Glass is not included.

STANDARD COLORS

Sky White Gloss	Oyster White Gloss	Agate Gray Gloss	Beige Gray Gloss	Black Matte	Bronze Matte	Silver Metallic

Colors shown are representative only, and may vary slightly from actual gloss, color, and texture. If color match is critical, please contact Technical Sales for additional information.

Additional Color Options - CRL has over 250 quick turn custom color options with the ability to color match as well.

Self-Closing Hinges

72" (1829 mm) Maximum Gate Height

Self-Latching Lock

3" (76 mm) Bottom Clearance Recommended

3/4" (19 mm) Clearance Standard at Hinge Side

48" (1219 mm) Maximum Gate Width

1/2" (13 mm) Clearance Standard at Pull/Latch Side

Choose from the 100, 200, 300 or 350 Series Top Rail (see pages 402B and 417B)

Edge of Glass

Supports 1/4" or 3/8" (6 or 10 mm) Glazing with Roll-In Vinyl. 1/2" or 9/16" (12 or 13.52 mm) Wet Glazed.

2-3/8" (60 mm) Square Aluminum Frame

Shipped Completely Welded and Assembled, Ready to Install

Specify Gate Height

M121 Glass Sash

Specify Gate Width

Welded Corners

ARS CUSTOM ALUMINUM RAILING GATES FOR GLASS

CAT. NO.	DESCRIPTION
P0STGATE1G	100 Series Custom Gate for Glass
P0STGATE2G	200 Series Custom Gate for Glass
P0STGATE3G	300 Series Custom Gate for Glass
P0STGATE35G	350 Series Custom Gate for Glass

Minimum order: 1 each. Specify gate color, opening width and height at time of order.

ARS CUSTOM ALUMINUM RAILING GATES WITH PICKETS

CAT. NO.	DESCRIPTION
P0STGATE1P	100 Series Custom Picket Gate
P0STGATE2P	200 Series Custom Picket Gate
P0STGATE3P	300 Series Custom Picket Gate
P0STGATE35P	350 Series Custom Picket Gate

Minimum order: 1 each. Specify gate color, opening width and height at time of order.

Code Compliance and/or Affiliations:

- U.S. Consumer Product Safety Commission (CPSC)
- Associated Locksmiths of America (ALOA)
- American Fence Association (AFA)
- Association of Pool & Spa Professionals (APSP)
- International Code Council (ICC)
- American Standard Testing Materials International (ASTM)

M121 Glass Sash Supports 1/4" or 3/8" (6 or 10 mm) Glazing with Roll-In Vinyl. 1/2" or 9/16" (12 or 13.52 mm) Wet Glazed.

Welded Corners

2-3/8" x 2-3/8" (60 x 60 mm) Square Aluminum Frame

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TOLL Phone: (800) 421-6144
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CRL US ALUMINUM
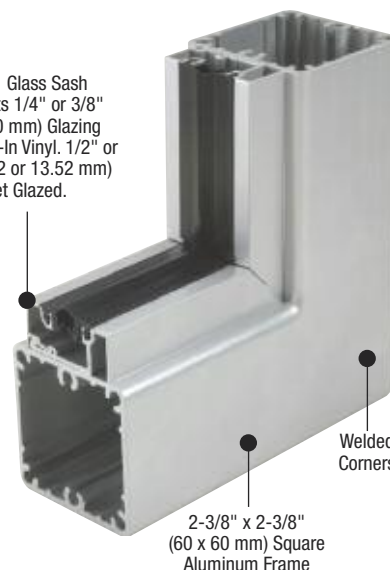
CRL AWS Custom Gate Systems

- Fabrication to Code for Pool Surrounds
- We Can Fabricate Custom Styles From Stock Components
- Tension Adjustable Self-Closing Hinge is Standard
- Available Gate Latch, Knob Latch, Electronic Magnetic Latch, and Panic Hardware Options
- Gate Hinge and Lock Options Also Available
- Seven Standard Colors, Plus Treated Mill Aluminum
- Custom Colors Also Available

Gates are an integral part of most commercial, multi-family, and residential projects. Your choice of gate designs range from the basic swinging gate to the most customized automatic or manual gate you can create. CRL Gates can accommodate standard, electronic or remotely operated locksets, as well as a variety of opening mechanisms. Glass is not included.

CRL US ALUMINUM — MANUFACTURED IN THE USA

USE MONOLITHIC TEMPERED GLASS

or

USE LAMINATED TEMPERED GLASS

Diagram labels (left elevation):

- Self-Closing Hinges
- Self-Latching Lock
- 72" (1829 mm) Maximum Gate Height
- 3" (76 mm) Bottom Clearance Recommended
- Post
- Post
- 3/4" (19 mm) Clearance Standard at Hinge Side
- 48" (1219 mm) Maximum Gate Width
- 1/2" (13 mm) Clearance Standard at Pull/Latch Side

Diagram labels (right elevation):

- Welded Corners
- Supports 1/4" or 3/8" (6 or 10 mm) Glazing with Roll-In Vinyl. 1/2" or 9/16" (12 or 13.52 mm) Wet Glazed.
- M121 Glazing Stops
- 2" (51 mm) Square Aluminum Frame
- Specify Gate Height
- Shipped Completely Welded and Assembled, Ready to Install
- M121 Glazing Stops
- Specify Gate Width

- No Rusting, Binding or Staining
- Easy to Install and Maintain
- Limited Lifetime Warranty

Safety Note: Always confirm any such requirements with the appropriate local pool or safety authorities in your area, as regulations may vary from region to region. After installation, inform the gate owner that it is their responsibility to inspect and adjust any gate latches and hinges to compensate for ground movement and other factors, so that the gate continues to self-close and self-latch effectively. No product is childproof, and should not be used in place of adult supervision.

Cutaway diagram labels:

- Supports 1/4" or 3/8" (6 or 10 mm) Glazing with Roll-In Vinyl. 1/2" or 9/16" (12 or 13.52 mm) Wet Glazed.
- M121 Glass Sash
- 2" x 2" (51 x 51 mm) Square Aluminum Frame

AWS CUSTOM ALUMINUM WINDSCREEN GATES FOR GLASS

CAT. NO.	FINISH
PGAWS1W	Sky White
PGAWS10W	Oyster White
PGAWS1AGY	Agate Gray
PGAWS1BGY	Beige Gray
PGAWS1BL	Matte Black
PGAWS1BRZ	Matte Bronze
PGAWS1S	Silver Metallic
PGAWS1CRM	Mill Aluminum

Minimum order: 1 each. Specify gate color, opening width and height at time of order.

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TOLL Phone: (800) 421-6144
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CRL US ALUMINUM

CRL Custom Platinum Series Fully Framed Architectural Gate Systems

NEW!

USE MONOLITHIC TEMPERED GLASS

or
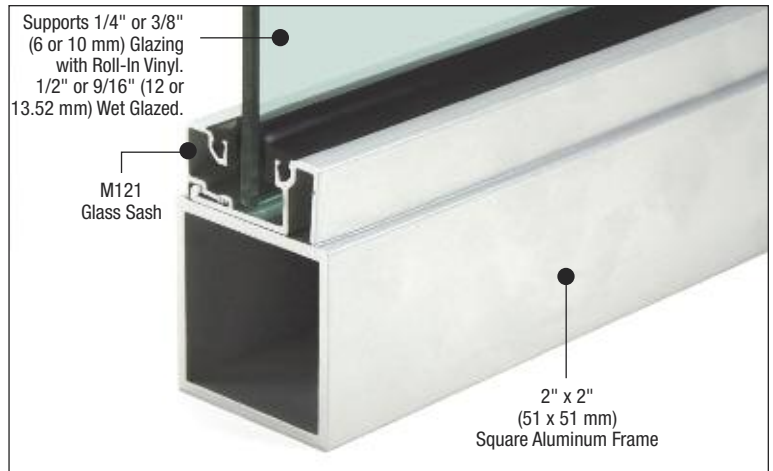
USE LAMINATED TEMPERED GLASS

- Designed, Engineered, and Manufactured by CRL
- Can Be Supplied With 1/4" to 1" (6 to 25 mm) Monolithic or Laminated Tempered Glass (If Desired)
- 3" or 4-1/16" (76 or 103 mm) Stile Sizes to Choose From
- No Exposed Glass Stops
- Clad Aluminum Construction
- All Gates Custom to Built to Your Specifications

CRL manufactures a complete line of Platinum Series Fully Framed Architectural Gates for interior and exterior applications. These innovative gate systems are available in brushed and polished stainless cladded finishes, with custom painted finishes available on special order. With all of our Platinum Series Fully Framed Gates you have three standard options for the top and bottom rails: 4", 5", and 10" (102, 127, and 254 mm). We can also provide custom height rails to meet your needs. Mid-rails or applied mullions can be incorporated. Glass can be provided by CRL or the customer. Posts and hardware are sold separately.

CRL's Platinum Series Fully Framed Gates are made to order and can be designed for almost any application. With the ability to prep and install almost any architectural hardware configuration, we are confident we can meet your design requirements.

Contact Railing Technical Sales at (800) 421-6144 in the U.S., (877) 421-6144 from Canada, or (323) 588-1281 International, and ask for Ext. 7730. You can also send e-mail to **railings@crlaurence.com**.

CRL US ALUMINUM
MANUFACTURED IN THE USA

3" (76 mm) Stile

4-1/16" (103 mm) Stile

Gate Corner Section

4" (102 mm)

5" (127 mm)

10" (254 mm)

1-3/4" (45 mm)

1-3/4" (45 mm)

1-3/4" (45 mm)
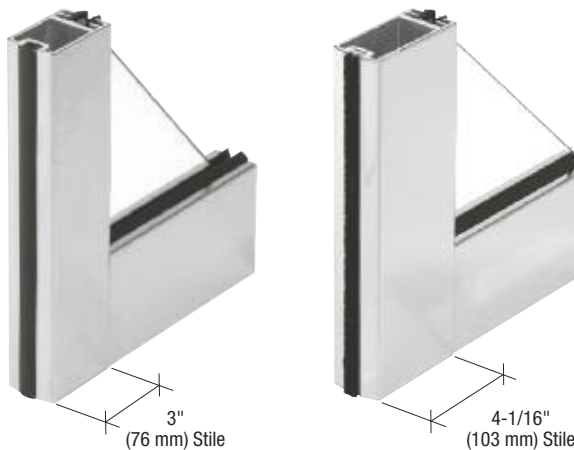
Top and Bottom Rail Options

CUSTOM PLATINUM SERIES GATES

CAT. NO.	FINISH
PLG1BSC	Brushed Stainless
PLG1PSC	Polished Stainless
PLG1PTC	Painted*

Minimum order: 1 each. Must specify Stile Size, Top and Bottom Rail option, and if glass is to be included when ordering
*Specify Color.
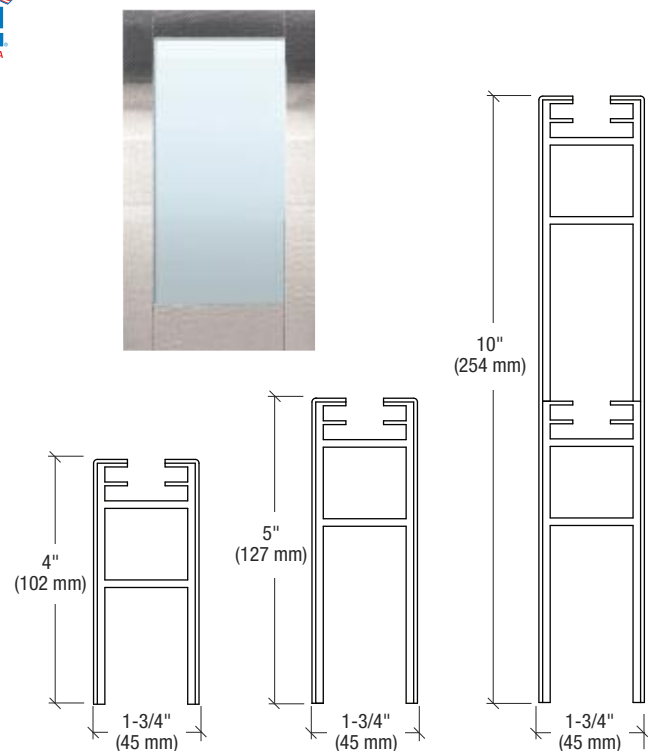
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TOLL Phone: (800) 421-6144
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CRL US ALUMINUM

CRL Custom Premium Formed Stainless Steel Gate Systems

NEW!

CRL US ALUMINUM®
MANUFACTURED IN THE USA

USE MONOLITHIC TEMPERED GLASS

or

USE LAMINATED TEMPERED GLASS

- Great for High End Pool Fencing or Barrier Applications
- Custom Made to Your Specifications
- Two Standard Architectural Finishes
- For Interior and Exterior Applications
- Standard Formed 16 Gauge Construction
- Available in 304 and 316 Grade Stainless Steel
- Gate Hinge and Lock Options Also Available (See Pages 539B to 546B)

CRL Custom Premium Formed Stainless Steel Gate Systems are ideal for most commercial, multi-family, and residential projects. Your choice of gate designs is almost limitless, from the basic swinging gate to the most customized automatic or manual gate you can create. CRL Gates can accommodate standard, electronic or remotely operated locksets, as well as Rim Panic devices. Glass is not included.
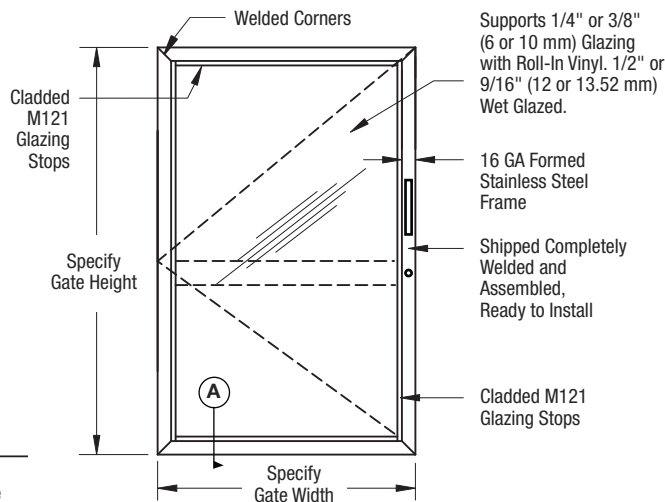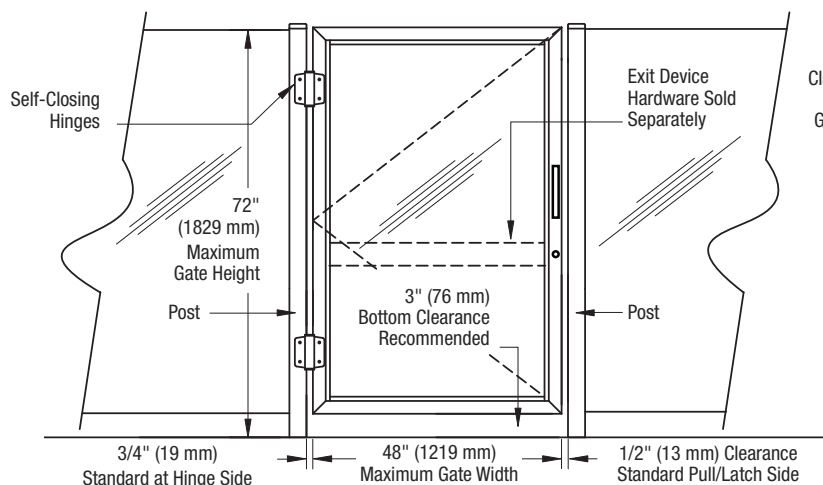
Self-Closing Hinges

Exit Device Hardware Sold Separately

72" (1829 mm) Maximum Gate Height

Post

3" (76 mm) Bottom Clearance Recommended

Post

3/4" (19 mm) Standard at Hinge Side

48" (1219 mm) Maximum Gate Width

1/2" (13 mm) Clearance Standard Pull/Latch Side

Welded Corners

Cladded M121 Glazing Stops

Supports 1/4" or 3/8" (6 or 10 mm) Glazing with Roll-In Vinyl. 1/2" or 9/16" (12 or 13.52 mm) Wet Glazed.

16 GA Formed Stainless Steel Frame

Shipped Completely Welded and Assembled, Ready to Install

Cladded M121 Glazing Stops

Specify Gate Height

Specify Gate Width

A

- Easy to Install and Maintain
- Limited Lifetime Warranty

Supports 1/4" or 3/8" (6 or 10 mm) Glazing with Roll-In Vinyl. 1/2" or 9/16" (12 or 13.52 mm) Wet Glazed.

Cladded M121 Glass Sash

16 Gauge Formed Stainless Steel Frame

Detail

A

Safety Note: Always confirm any such requirements with the appropriate local pool or safety authorities in your area, as regulations may vary from region to region. After installation, inform the gate owner that it is their responsibility to inspect and adjust any gate latches and hinges to compensate for ground movement and other factors, so that the gate continues to self-close and self-latch effectively. No product is childproof, and should not be used in place of adult supervision.

CUSTOM PREMIUM FORMED STAINLESS STEEL GATE SYSTEMS

CAT. NO.	FINISH
PFG1BSC	Brushed Stainless
PFG1PSC	Polished Stainless
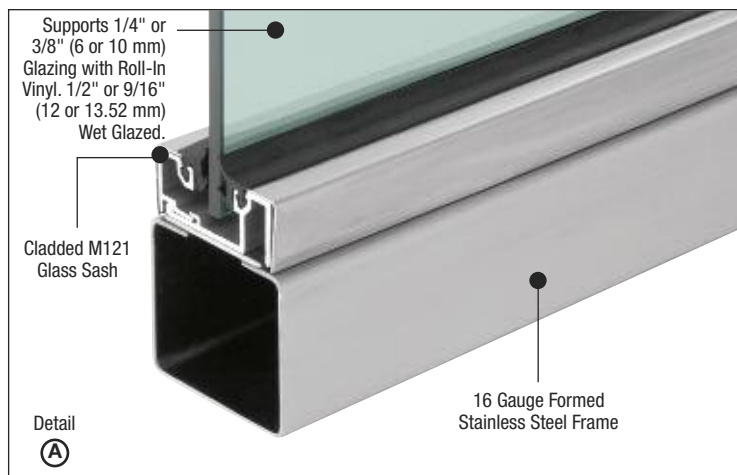
Minimum order: 1 each.

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or enter the Catalog Number for complete product information

537B

TOLL Phone: (800) 421-6144
FREE Fax: (800) 262-3299
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CRL US ALUMINUM

CRL ARS and AWS Gate Hardware

- Electric Strikes and Rim Panics
- Self-Closing Hinge Mechanisms
- Gate Locks, Bolts, and Latches

We provide a large selection of hardware for the fabrication and mounting of attractive and secure gate systems. All of this hardware is designed to provide smooth operation and look good while doing it. Here are just some of your options. For the complete selection of CRL Gate Hardware please go to **crlaurence.com/gate-hardware**.

USE MONOLITHIC TEMPERED GLASS

Custom AWS Gate with Tru-Close® Gate Hinges and Jackson® 1295 Series Rim Panic Exit Device

Custom AWS Gate with Tru-Close® Gate Hinges and Magnu-Latch® "Series 2" Safety Lock

Custom ARS Gate with Tru-Close® Gate Hinges, Lokk-Bolt ® Cane Bolt, and Lokk-Latch Pro

Electric Strikes, Rim Panics, and Locking Lever Trim
Pages 544B-546B

Locks, Bolts, and Latches
Pages 541B-543B

Self-Closing Hinges
Pages 539B-540B

Tru-Close, Lokk-Latch, Magna-Latch, and Lokk-Bolt are registered trademarks of D&D Group PTY Ltd.

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CRL US ALUMINUM

CRL Tru-Close® Gate Hinges

NEW!

New Brushed and Polished Aluminum Snap-On Covers Available!

- Self-Closing
- Wont Rust, Bind, Sag, or Stain
- No Visible Fasteners
- Tension Adjustable Using Only a Screwdriver
- Generally Meets All Pool Barrier Codes

An internal stainless steel adjustable spring allows for smooth, even closure under different weights, and generally meets all pool barrier codes. UV-stabilized materials are strong, self-lubricating, and weather-resistant. Available in black or white. If the gate weighs in excess of 66 pounds (30 kg), or is wider than 36" (914 mm), choose Heavy-Duty Hinge Series TCHD1 shown below. #12 installation screws sold separately, go to **crlaurence.com**.

CAT. NO.	DESCRIPTION	COLOR/FINISH
TCHA1BL	Complete Hinge With Snap-On Covers	Black
TCHA1W	Complete Hinge With Snap-On Covers	White
TCHABS	*Snap-On Screw Cover Only, One Each	Brushed Aluminum
TCHAPS	*Snap-On Screw Cover Only, One Each	Polished Aluminum

Minimum order: 1 each. *Must order 2 each per Hinge. All-Tru Close® Hinges can be combined for quantity pricing.
NOTE: The recommended hinge side gap is 3/4" (19 mm).

3-1/32" (77 mm)
1-23/32" (44 mm)
3-25/32" (96 mm)
1-1/8" (29 mm)
1-13/16" (46 mm)

Black or White Snap-On Screw Covers Included. Optional Brushed and Polished Aluminum Available (See Chart).

CRL Tru-Close® Heavy-Duty Gate Hinges

NEW!

New Brushed and Polished Aluminum Snap-On Covers Available!

- Self-Closing
- Molded Polymer Construction With No Unsightly External Springs
- No Visible Fasteners
- Tension Adjustable Using Only a Screwdriver
- Generally Meets All Pool Barrier Codes

This is a heavier-duty Hinge than the TCHA1 Series shown above. The internal stainless steel adjustable spring allows for smooth, even closure under different weights, and generally meets all pool barrier codes. UV-stabilized materials are strong, self-lubricating, and weather-resistant. Available in black or white. Designed for gates weighing up to 154 pounds (70 kg). Contact Railing Technical Sales if the gate exceeds 154 pounds (70 kg) or 48" (1219 mm) in width. #12 installation screws sold separately, go to **crlaurence.com**.

CAT. NO.	DESCRIPTION	COLOR/FINISH
TCHD1BL	Complete Hinge With Snap-On Covers	Black
TCHD1W	Complete Hinge With Snap-On Covers	White
TCHDBS	*Snap-On Screw Cover Only, One Each	Brushed Aluminum
TCHDPS	*Snap-On Screw Cover Only, One Each	Polished Aluminum

Minimum order: 1 each. *Must order 2 each per Hinge. All-Tru Close® Hinges can be combined for quantity pricing.
NOTE: The recommended hinge side gap is 3/4" (19 mm).

3-1/2" (89 mm)
1-3/4" (45 mm)
5" (127 mm)
1-7/16" (37 mm)
2-3/16" (56 mm)

Black or White Snap-On Screw Covers Included. Optional Brushed and Polished Aluminum Available (See Chart).

CRL Tru-Close® Hinge Safety Cap

NEW!
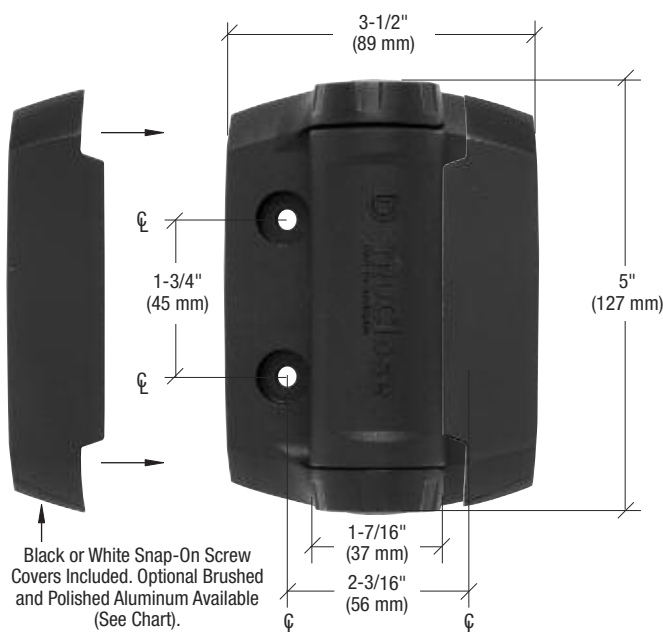
- Ready to Install
- Helps Prevent Climbing
- For TCHA1 Hinges (See Above)

CRL Tru-Close® Hinge Safety Caps are optional and helps prevent toddlers from using the bottom hinge on gates as a climbing foothold.

CAT. NO.	COLOR
TCHACBL	Black

Minimum order: 1 each.

CRL Tru-Close® Heavy-Duty Hinge Safety Cap

NEW!

- Ready to Install
- Helps Prevent Climbing
- For TCHD1 Hinges (See Above)

CRL Tru-Close® Hinge Safety Caps are optional and helps prevent toddlers from using the bottom hinge on gates as a climbing foothold.

CAT. NO.	COLOR
TCHDCBL	Black

Minimum order: 1 each.

Tru-Close is a registered trademark of D and D Group PTY Ltd.

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TOLL Phone: (800) 421-6144
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From Anywhere in the U.S. or Canada

or enter the Catalog Number for complete product information

CRL US ALUMINUM

CRL Magna-Latch® "Side Pull" Gate Latch

- Great for Around Homes and Gardens
- Reliable, Effective, and Unobtrusive
- Quick and Easy Installation
- Magnetic Self-Latching Trigger
- Easily Mounts to Metal, Wood, and Vinyl

The magnetic, self-latching CRL Magna-Latch® is an ideal general-purpose latch for gates around homes and gardens. It's suitable for a wide variety of uses where a non-key lockable latch is needed. When used on picket-style swimming pool gates a compliant acrylic shield must be used to prevent latch access by children. Consult your local building code for more information. Screw covers and spacers are included.

3/8" (10 mm)
1-3/16" (30 mm)
11/16" (17 mm)
2-3/4" (70 mm)
Latch Release Knob
1-3/16" (30 mm)
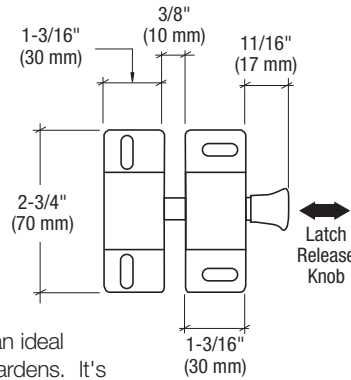
CAT. NO.	COLOR
MLSP1	Black

Minimum order: 1 each. **NOTE:** The recommended latch side gap is 3/8" (10 mm).

CRL SureClose® Hydraulic Gate Hinge-Closer

NEW!

- 1500 Pound Weight Capacity for Two Hinge-Closers
- Adjustable Closing Speed
- Final Snap Close Action
- Mounting Brackets and Fasteners Included
- A.D.A. Compliant

1-11/16" (43 mm)
1-1/2" (38 mm)
1-3/4" (45 mm)
1-5/8" (41 mm)
4-5/8" (117 mm)
2" (51 mm)

NOTE: Gate Stops must be installed to prevent gate from opening past 90 degrees.
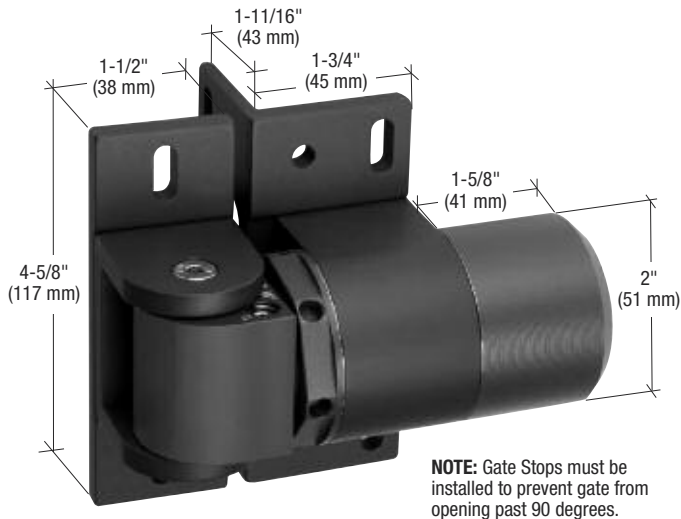
The CRL SureClose® Hydraulic Gate Hinge-Closer is for ARS and AWS Gates. This internal powerful Hyrdaulic Gate Hinge-Closer is designed for smooth, even closure under different weights with a final snap-close feature. Closing speed and final snap-close feature is fully adjustable. Designed for 1500 pound (680 kg) maximum weight capacity. Contact Railing Technical Sales if the gate exceeds 1500 pounds (680 kg) or 40" (1016 mm) in width. Installation instructions included.

CAT. NO.	COLOR
HC1500BL	Black

Minimum order: 1 each. **NOTE:** The hinge side gap variance is 1/2" to 1-3/8" (12 to 35 mm).

Magna-Latch, Tru-Close, and SureClose are all registered trademark of D&D Group PTY Ltd.

CRL Tru-Close® Round Post Gate Hinges

- Self-Closing
- Molded Polymer Construction With No Unsightly External Springs
- Tension Adjustable Using Only a Screwdriver
- Generally Meets All Pool Barrier Codes
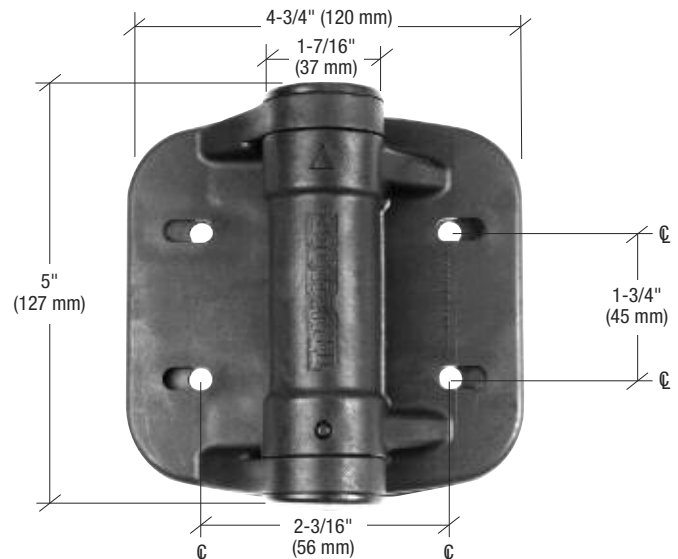
4-3/4" (120 mm)
1-7/16" (37 mm)
5" (127 mm)
1-3/4" (45 mm)
2-3/16" (56 mm)

An internal stainless steel adjustable spring allows for smooth even closure under different weights, and generally meets all pool barrier codes. UV-stabilized materials are strong, self-lubricating, and weather-resistant. It is ideal for fence post diameters of 1-7/8" to 2", 2-3/8", and 2-7/8" (48 to 51, 60, and 73 mm), and gate frame diameters of 1-3/8" and 1-5/8" (35 and 41 mm). Gate widths can be between 36" to 48" (914 to 1219 mm). Contact Railing Technical Sales if the gate exceeds 132 pounds (60 kg) or 48" (1219 mm) in width. #12 installation screws sold separately, go to **crlaurence.com**. Sold by the pair.

CAT. NO.	COLOR
TCHDR2BL	Black

Minimum order: 1 pair. All Tru-Close® Hinges can be combined for quantity pricing.
NOTE: The recommended hinge side gap is 1" (25 mm).

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FREE Fax: (800) 262-3299
From Anywhere in the U.S. or Canada

CRL
US ALUMINUM

or enter the Catalog Number for complete product information

CRL Lokk-Latch® Pro

- Self-Latching
- Tough, Glass Reinforced Polymer and Stainless Steel Construction
- Can Be Keyed Alike By a Locksmith to Most Household Doors

Lokk-Latch® Pro is a high-quality Gate Latch with an external push-button access that allows the gate to be opened and locked from either side. It is easy to install with a fitting jig supplied, requiring just one hole through the post, and requires no welding. Available in black or white, this Gate Latch can be installed onto any square or rectangular post from 1-1/2" to 5" (38 to 127 mm) in width.

1-7/16" (37 mm)

5-1/2" (140 mm)

3-1/4" (82 mm)

2" (51 mm)

2-5/16" (59 mm)

1-1/4" (32 mm)

2-1/4" (57 mm)

2-5/8" (67 mm)
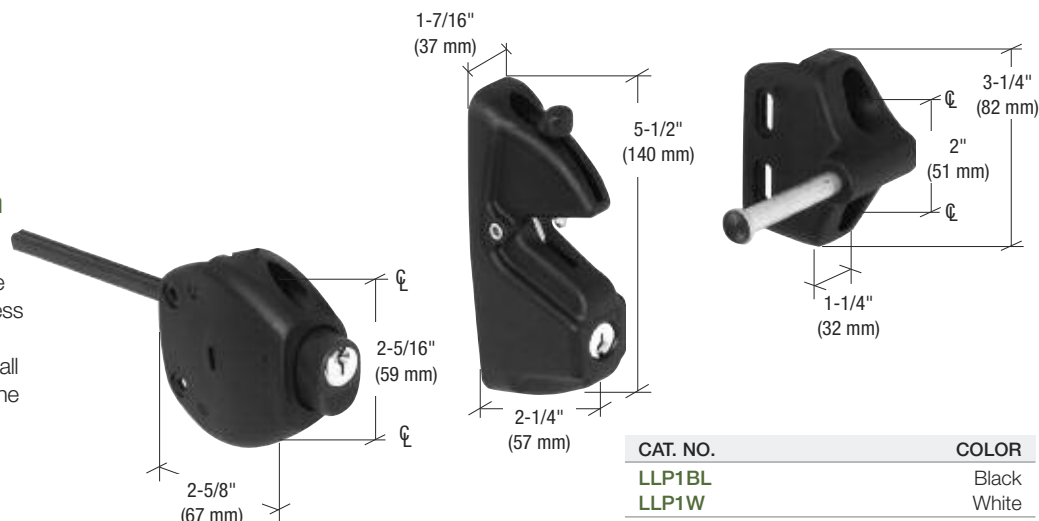
CAT. NO.	COLOR
LLP1BL	Black
LLP1W	White

Minimum order: 1 each. All Gate Latches and Locks can be combined for quantity pricing.

CRL Lokk-Latch® "Series 2" for Square Posts

- Self-Latching
- Tough, Glass Reinforced Polymer and Stainless Steel Construction
- Key Locking and Opening From Both Sides

This improved pedestrian Gate Latch offers easier installation, more versatile use, and a higher degree of adjustability. The external push-button allows the gate to be opened and locked from either side of the gate at the same time. Adapting the Latch to fit left hand or right hand hinged gates is now easier. New adaptor plates are a "snap-on" design retained using just one screw. Available in black or white, this Latch can be installed on all square or rectangular gate materials (metal, wood, vinyl) from 1" to 6" (25 to 152 mm) wide.

3-9/16" (90 mm)

2-1/4" (57 mm)

4-9/16" (115 mm)

1-1/8" (29 mm)

1" (25 mm)

2-11/16" (68 mm)

1" (25 mm)

CAT. NO.	COLOR
LLA2BL	Black
LLA2W	White

Minimum order: 1 each. All Gate Latches and Locks can be combined for quantity pricing.

CRL Lokk-Latch® "Series 2" for Round Posts

- Self-Latching
- Tough, Glass Reinforced Polymer and Stainless Steel Construction
- Key Locking and Opening From Both Sides

This Lokk-Latch® has an external push-button that allows the gate to be opened and locked from either side at the same time. Adapting the Latch to fit left hand or right hand hinged gates is now easier. New adaptor plates are a "snap-on" design retained using just one screw. This Lokk-Latch® includes hardware to attach to fence posts diameters of 1-7/8" to 2", 2-3/8", and 2-7/8" (48 to 51, 60, and 73 mm).

The Strike includes hardware to attach to gate frame diameters of 1-3/8" to 1-5/8" (35 to 41 mm). For gates with 1.9" to 2" (48 to 51 mm) diameter frames contact Railing Technical Sales.

Lokk-Latch is a registered trademark of D&D Group PTY Ltd.

2-15/16" (75 mm)

2" (51 mm)

4-7/16" (113 mm)

1-3/4" (45 mm)

1-5/8" (41 mm)

1-3/8" (34 mm)

CAT. NO.	COLOR
LLA2RBL	Black

Minimum order: 1 each. All Gate Latches and Locks can be combined for quantity pricing.

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541B

TOLL Phone: (800) 421-6144
FREE Fax: (800) 262-3299
From Anywhere in the U.S. or Canada

CRL US ALUMINUM

CRL Lokk-Latch® Magnetic Gate Lock

- Ergonomic Intuitive Push/Pull Action, A.D.A. Compliant and Non-Handed
- Dual Six-Pin Lock Can Be Re-Keyed
- Magnetic Latching; Locks and Unlocks From Both Sides of the Gate
- No Visible Fasteners, Will Not Rust or Corrode
- Fits Any Square Post Gate and Fence Material From 1-1/2" (38 mm) to 6" (152 mm)
- Available in All Black or Black With Brushed Aluminum Trim

The CRL Magnetic Lokk-Latch® is ideal for aluminum post gates with tempered glass or picket infills. Manufactured with dual lock cylinders and a lock that is magnetically-triggered. Features a 6-pin key cylinder that can be re-keyed (by a locksmith) to match other house locks. Can be locked or unlocked from either side of the fence simultaneously. This revolutionary latch meets Federal A.D.A. standards and is made of a super strong polymer and stainless steel. Easy installation requires no special tools or jigs. **NOTE:** If used on double gates, a drop bolt must be used. Not suitable for child safety gates, as its handle-style design precludes it as a safety device.

NEW!

Gap Varies
3/8" to 1-1/4"
(10 to 32 mm)

1-1/2"
(38 mm)

4-3/16"
(106 mm)

8-3/4"
(222 mm)

Cat. No. ZL3BS
shown

CAT. NO.	FINISH
ZL3BS	Black/Brushed Aluminum
ZL3BL	All Black

Minimum order: 1 each. All Gate Latches and Locks can be combined for quantity pricing.
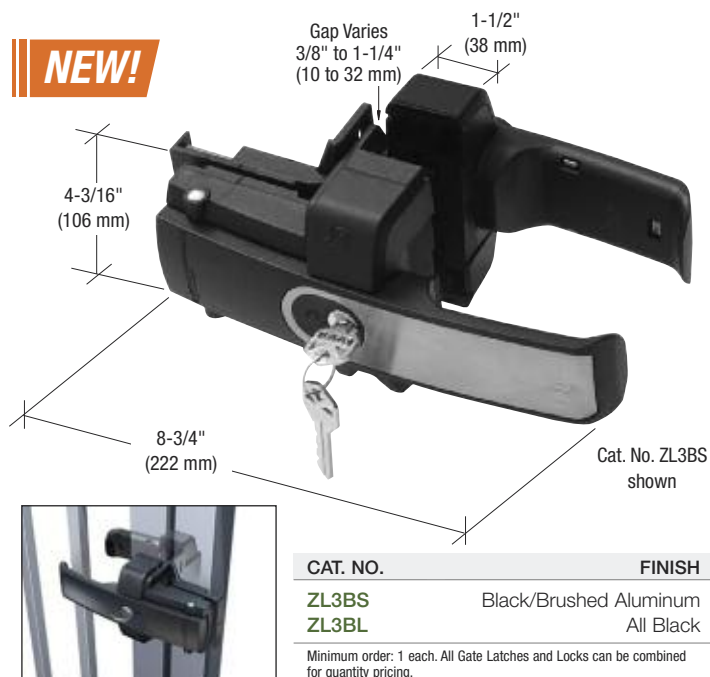
CRL Stainless Steel PullBolt™ Security Locks

- Side Mount and Face Mount Models to Fit Most Applications
- 316 Grade Stainless Steel
- Key-Lockable, Six-Pin Lock Security
- 3/4" (19 mm) Diameter Bolt With 1-1/4" (32 mm) Throw
- Lifetime Limited Warranty

This Stainless Steel PullBolt™ is designed to provide powerful locking security for storefronts, doors, frames, and gates. It can act as added security to existing locking systems, or can be used as a primary lock.

The superbly cast PullBolt™ comes in two models, Side Mount and Face Mount. It is installed using four, thru-mounted M10 stainless steel screws (included). The lock bolt slides snugly across into the sturdy keeper housing for optimum security.

The PullBolt™ is made from 316 grade stainless steel, making the device ideal for use in marine and other corrosive environments. The locking mechanism is a deadlock design, which protects the device from being tampered with, and also assures the system cannot be locked without the keyholder's authority.

Side Mount Security Lock

Bolt Diameter
3/4" (19 mm)

Side Jamb or Fence

Gate

4-1/8"
(105 mm)

1-3/4"
(45 mm)

2"
(51 mm)
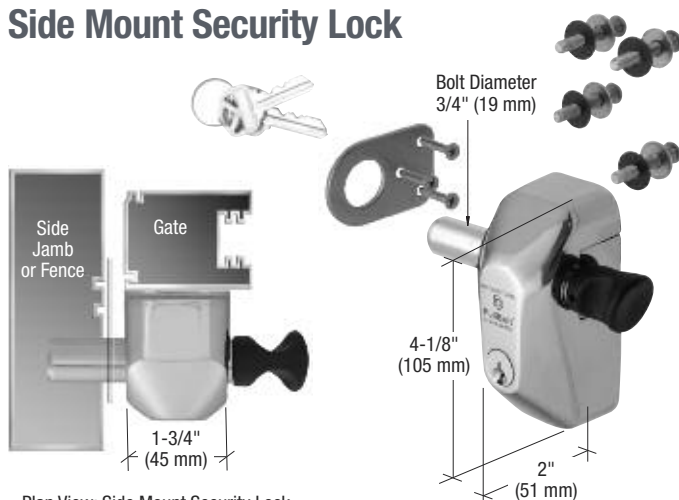
Plan View: Side Mount Security Lock

CAT. NO.	FINISH
PBS1PS	Polished Stainless

Minimum order: 1 each. All PullBolt™ Locks can be combined for quantity pricing.

Lokk-Latch is a registered trademark of D&D Group PTY Ltd.

Face Mount Security Lock

Gate | Gate

2-3/4"
(70 mm)

4-1/8"
(105 mm)

1-1/2"
(38 mm)

1-3/4"
(45 mm)

2"
(51 mm)
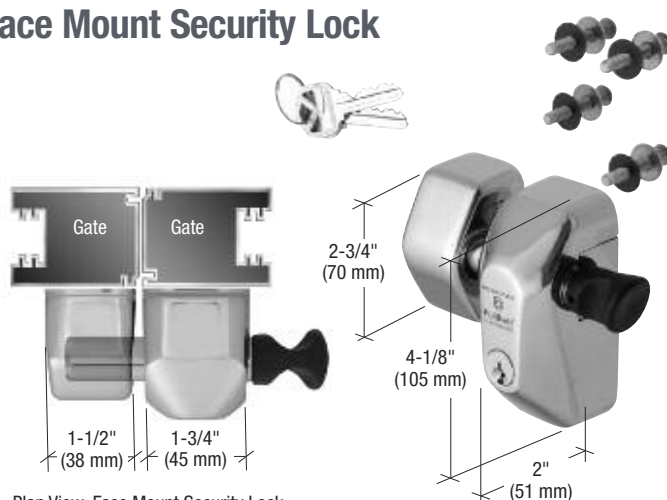
Plan View: Face Mount Security Lock

CAT. NO.	FINISH
PBF1PS	Polished Stainless

Minimum order: 1 each. All PullBolt™ Locks can be combined for quantity pricing.

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TOLL Phone: (800) 421-6144
FREE   Fax: (800) 262-3299
From Anywhere in the U.S. or Canada

CRL US ALUMINUM

CRL Magna-Latch® "Series 2" Safety Locks

- Magnetically Triggered and Self-Latching
- Key-Lockable for Added Safety
- Ideal for Swimming Pool Gates

The Magna-Latch® "Series 2" is made of quality molded polymers and stainless steel, providing horizontal and vertical adjustment for quick and easy installation. Magna-Latch® "Series 2" is ideal for swimming pools and child safety areas, such as daycare centers. Fits most gate and fence heights, however ideal height is 48" (1219 mm) as the latch can be installed with the release knob out of reach of toddlers. Consult local authorities for height requirements on swimming pool gates. Available in black or white.

1-3/4" (45 mm)
20-1/4" (515 mm)
2" (51 mm)
2-7/8" (73 mm)
3-3/8" (86 mm)

CAT. NO.	COLOR
LL1MBL	Black
LL1MW	White

Minimum order: 1 each. Colors can be combined for quantity pricing.

CRL Lokk-Bolt® Cane Bolts

- Key-Lockable Gate Security
- Tough Molded Polymer Housings
- Marine Grade Stainless Steel Rod

The CRL Lokk-Bolt® Cane Bolt can be keyed alike to most doors and the Lokk-Latch® Pro Lock (see page 541B) by a locksmith. Ideal for double driveway or pool gates, however equally as effective on pedestrian gates. Quick and simple to install. Clever bolt retention grooves mean that this 18" (457 mm) cane bolt will never drop, drag, bend or grind across driveways. Rod is constructed of marine grade stainless steel. Available in black or white.

4-1/8" (105 mm)
2-3/4" (70 mm)
4-1/8" (105 mm)
ø9/16" (14 mm)
18" (457 mm)
2-3/4" (70 mm)

CAT. NO.	COLOR
LB118BXBL	Black
LB118BXW	White

Minimum order: 1 each. Colors can be combined for quantity pricing.

CRL Gate Stop

- Molded, Reinforced Polymer Construction

The CRL Gate Stop is the ideal gate alignment device for preventing hinge, latch, and gate damage, and for extending gate life. An integrated rubber buffer protects against "gate slam" and reduces noise. For gates taller than 48" (1219 mm) two Gate Stops may be required.

NOTE: A Gate Stop should not be used on child safety gates, as toddlers may use them as footholds.

1-3/16" (30 mm)
3-5/8" (92 mm)
4-3/4" (121 mm)
1-3/4" (45 mm)
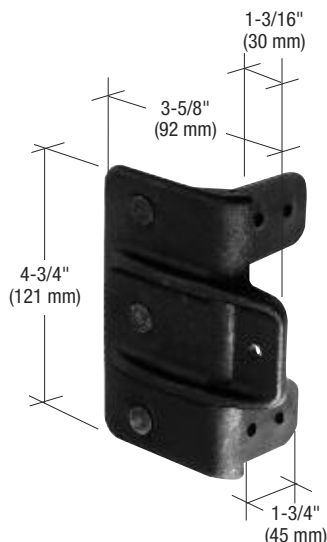
CAT. NO.	COLOR
TCGS2BL	Black

Minimum order: 1 each.

Magna-Latch, Lokk-Bolt, and Lokk-Latch are registered trademarks of D&D Group PTY Ltd.

CRL Gate Handle

NEW!

- Molded, Reinforced Polymer Construction
- Fits Left Hand or Right Hand Opening Gates
- 100% Rust Proof

This CRL Gate Handle is a general-purpose black handle made to fit all square gate materials. They offer convenient gate opening and closing on virtually all applications. Installation screws included.

1-3/8" (35 mm)
6" (152 mm)

CAT. NO.	COLOR
LL3GH	Black

Minimum order: 1 each.

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TOLL Phone: (800) 421-6144
FREE Fax: (800) 262-3299
From Anywhere in the U.S. or Canada

CRL US ALUMINUM

CRL Jackson® 1295 Series Rim Panic Exit Devices

- Works With CRL's ARS and AWS Custom Gate Systems
- Easily Surface Mounts to CRL's 2-3/8" (60 mm) Gate Frames
- Two Finishes Available

This Jackson® 1295 Series Rim Panic Exit Device is suitable for use with 1-3/4" to 2-3/8" (45 to 60 mm) aluminum or hollow metal gates. The base is easily trimmed for field sizing. This Exit Device features an easy to use dogging system, and is available with keyed cylinder dogging on special order.

The 1295 Series touch pad with "Soft-Touch" insert requires slight pressure anywhere on bar insert for instant release of the locking mechanism. Overall projection is only 2-7/8" (73 mm) from the gate surface, and mounting hardware is concealed. See below for active outside trim and other panic accessories.

Non-Handed

'C' Strike

SPECIFICATIONS: 1295 Rim Device - Stocked in Both 36" (914 mm) and 48" (1219 mm) Widths. Surface Mounted Roller Strike Standard. Requires Rim Cylinder for Keyed Entry.

MATERIALS: Base and Push Pad: Extruded Aluminum; Mechanical Components: Stainless and Hardened Plated Steel; Latch and Strikes: Sintered Steel.

36" (914 MM) GATE WIDTH CAT. NO.	48" (1219 MM) GATE WIDTH CAT. NO.	TYPE	FINISH
311295C3628	311295C4628	Rim Device - 'C' Strike	Satin Aluminum
311295C3313	311295C4313	Rim Device - 'C' Strike	Dark Bronze

Minimum order: 1 each.

CRL Jackson® Locking Flat Lever Outside Trim

- Designed for Use With Jackson 1295 Series Panic Exit Device
- Fits CRL's 2-3/8" (60 mm) Post Frame Using Jackson's Extended Cam
- Non-Handed, Field Reversible
- Dummy Levers Available

This Jackson® Locking Flat Lever Outside Trim has a narrow 1-3/4" (45 mm) escutcheon that allows it to be used on narrow stile doors and gates. The flat style lever is key-controlled, and requires the use of Cat. No. DRA10 Series Keyed Mortise Cylinder, which locks or unlocks the lever (ANSI Function - 08). An extended cam is included. **NOTE:** Non-locking Dummy Levers are also available, see chart below.

1-3/4" (45 mm)

Trim Only
Cylinder Not Included
(Sold separately,
see below)

7-7/16" (188 mm)

4-1/2" (114 mm)

2-1/4" (57 mm) Projection
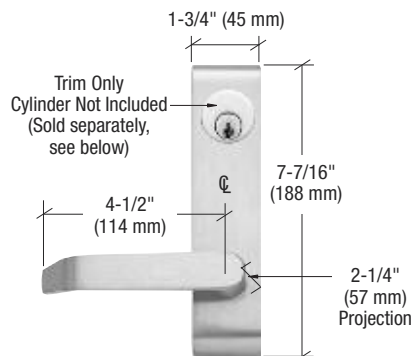
LOCKING LEVER CAT. NO.	DUMMY LEVER CAT. NO.	FOR USE WITH	FINISH
S95LV02A	8500LVDT02628	Model 1295 Rim Panic	Satin Aluminum
S95LV02BRZ	8500LVDT02313	Model 1295 Rim Panic	Dark Bronze

Minimum order: 1 each. All Lever Lock Trim can be combined for quantity pricing.

MATERIALS: Escutcheon: High Tensile Strength Aluminum; Lever: High Tensile Strength Aluminum; Mechanical Components: Plated Hardened Steel

CRL Surface Mount Strike Plate Block

- Mounts to CRL's 2-3/8" (60 mm) Post Frame
- Non-Handed
- Seven Standard Colors Plus Mill Aluminum (See Page 533B)

This Surface Mount Strike Plate Block is designed to support Jackson's 1295 Series Panic Exit Device's 'C' Strike for interior or exterior gate applications. It easily mounts to the face of CRL's 2-3/8" (60 mm) post after the panic has been installed.

2-3/8" (60 mm) Post

Strike Plate Included with Panic Device

CAT. NO.*	DESCRIPTION
1295SP	Surface Mount Strike Plate Block

Minimum order: 1 each. * Specify powder coat color when ordering.
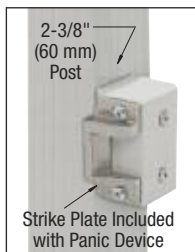
CRL DRA Series Mortise Cylinders

- Brass Housing Supplied With Longer Cam
- Comes With Two Keys

This keyed DRA Series Mortise Cylinder is supplied with the longer DRA10CAM recommended for use with the CRL Jackson® Locking Flat Lever Outside Trim (see above). Cylinders are keyed alike and supplied with two keys.

CAT. NO.	KEYWAY	KEYED	CYLINDER RING	FINISH
DRA10SA	Schlage "C"	Alike	5/32" (4 mm)	Satin Aluminum
DRA10DU	Schlage "C"	Alike	5/32" (4 mm)	Dark Bronze

Minimum order: 1 each. All Rim Cylinders can be combined for quantity pricing.

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or enter the Catalog Number for complete product information

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TOLL Phone: (800) 421-6144
FREE Fax: (800) 262-3299
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CRL
US ALUMINUM

CRL Small Format Interchangeable Cores (SFIC)

CRL stocks 7-Pin Small Format Interchangeable Cores (SFIC) to provide easy key control among end users on many of our products, as well as on BEST®, FALCON®, Schlage®, and other, interchangeable core systems. CRL 7-Pin Cores are the perfect choice for end users that want key control in SFIC hardware applications. CRL Interchangeable Cores can be easily extracted from their housings via a special 'control key' for easy replacement or re-keying.

CAT. NO.	KEY NUMBER
1C01	1
1C02	2
1C03	3
1C04	4
1C05	5

Minimum order: 1 each. All SFIC Cores can be combined for quantity pricing.

CAT. NO.	KEY NUMBER
1C06	6
1C07	7
1C08	8
1C09	9
1C10	10

Minimum order: 1 each. All SFIC Cores can be combined for quantity pricing.

- Works With CRL ARS and AWS Gates
- 7-Pin Type Core Available in 10 Different Key Configurations
- Master Keying Available on Special Order
- Brushed Nickel Finish

Works With ARS and AWS Frame Profiles

Rim Cylinder Housing Sold Separately (see below)

For Applications When No Exterior Lever Trim Is Required

ORDERING INFORMATION:
- Each Core comes with one Control Key and two Standard Keys.
- Rim Cylinder Housing not included and must be ordered separately if needed (see below).
- Not compatible with larger 'removable' core systems.

CRL Rim Cylinder Housings for Small Format Interchangeable Cores (SFIC)
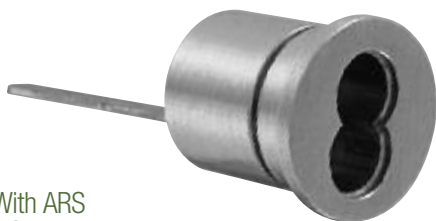
- For Use With ARS and AWS Gates Without Outside Lever Trim

CRL Rim Cylinder Housings for 7-Pin Small Format Interchangeable Cores (SFIC) feature an interchangeable cylinder core option and work seamlessly with our 1200, 1295, and 1900 Series Rim Panics. The 2" (51 mm) extended tailpiece is compatible with our ARS and AWS gates, and allows the user to operate a rim exit device on a gate up to 3" (76 mm) thick. Requires a SFIC (Small Format Interchangeable Cores). Sold separately (see above).

RIM CYLINDER HOUSING CAT. NO.	FINISH
2CHBS	Brushed Stainless
2CHPS	Polished Stainless
2CHPB	Polished Brass
2CHDU	Black Bronze Anodized

Minimum order: 1 each. Finishes can be combined for quantity pricing.

BEST is a registered trademark of Stanley Security Solutions, Inc.
FALCON and Schlage are registered trademarks of Schlage Lock Company LLC.

- For Use With Jackson® Series 1200, 1295, and 1900 Model Rim Panics
- Compatible With Any 7-Pin SFIC Type Core (See Above)
- Available in Four Architectural Finishes

Works With ARS and AWS Frame Profiles

Interchangeable Core Sold Separately (see above)

For Applications When No Exterior Lever Trim Is Required

ORDERING INFORMATION:
- Each Rim Cylinder Housing comes with a 1/4" (6 mm) tall cylinder ring and mounting screws.
- Not compatible with larger 'removable' core systems.
- SFIC Cores must be ordered separately (see above).

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TOLL Phone: (800) 421-6144
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CRL US ALUMINUM

Adams Rite® 74R1 Electric Strike

UL Listed for
Burglary Resistance

Adams Rite

ASSA ABLOY

- For Use With Rim Panic Device Up to 3/4" (19 mm) Pullman Type Latch
- Field Selectable 12/24 Volts AC/DC
- Field Convertible From Fail-Secure to Fail-Safe

SPECIFICATIONS:

Input: Field Select 12 Volts AC/DC
24 Volts AC/DC
Contact CRL Technical Sales
for 16 Volts AC/DC

Current Draw: 440mA @ 12V DC
160mA @ 12V AC
230mA @ 24V DC
80mA @ 24V AC

Dimensions: Case: 1" x 3-3/8" x 1-1/16" deep
(25 mm x 86 mm x 27 mm)
Strike Opening: 5/8" x 1-7/16" x 9/16"
(16 mm x 37 mm x 14 mm)

Shipped as Fail-Secure Lock: Requires Power to Unlock. Field Convertible to Fail-Safe Mode.

ELECTRIC STRIKES

CAT. NO.	FINISH
AR74R1A	Aluminum
AR74R1DU	Dark Bronze

Minimum order: 1 each. Strikes can be combined for quantity pricing.

This Adams Rite® AR74R1 Electric Strike provides for remote electrical actuation to unlock the strike jaw and release the latchbolt for entry without operating the latch. This semi-mortised Strike is for Rim Exit Devices having up to a 3/4" (19 mm) Pullman Type latch without auxiliary deadlock latches. Non-handed Strike features an ultra-compact design and a stainless steel split-jaw with over 2400 pounds of holding force. The standard Strike is supplied in fail-secure mode, but is field convertible to fail-safe mode.

CAT. NO. ST125TR
CRL 12 Volt DC Transformer

CAT. NO. ST125TR24
CRL 24 Volt DC Transformer

CRL Electric Strike Housing

- For Use With Adams Rite® 74R1 Electric Strike (See Above)
- Surface Mount Design, Easy to Install
- Great for Pool Gate Applications
- Seven Standard Colors (See Page 533B)
- Custom Colors Also Available

CRL
US ALUMINUM®
MANUFACTURED IN THE USA

NEW!

ARS or AWS
Square Post

Electric Strike Housing Surface Mounts to Square Post

Electric Strike Sold Separately (See Above)

2" (51 mm)

9" (229 mm)

1-3/4" (45 mm)

Electric Strike Sold Separately (see above)

CAT. NO.*	DESCRIPTION
AR74H	Electric Strike Housing

Minimum order: 1 each. *Specify powder coat color when ordering

This CRL Electric Strike Housing is designed to work with the Adams Rite® AR74R1 Electric Strike (sold separately, see above). The surface mount Housing is non-handed and easy to install. They are available in seven standard colors (see page 533B), with custom colors available upon request. Fasteners to attach to post are not included.

Adams Rite is a registered trademark of Adams Rite Manufacturing Co., an ASSA ABLOY Group Company.
UL is a registered trademark of UL LLC.

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TOLL Phone: (800) 421-6144
FREE Fax: (800) 262-3299
From Anywhere in the U.S. or Canada

CRL®
US ALUMINUM

—

CRL Aluminum Glazing Sash

- For Use With CRL's ARS and AWS Glass Gate Systems
- Supports 1/4" and 3/8" (6 and 10 mm) Tempered Glass With Roll-In Vinyl (See Below)
- Supports 1/2" and 9/16" (12 and 13.52 mm) Tempered and Laminated Tempered Glass Wet Glazed

CRL's Aluminum Glazing Sash is designed mainly for gate applications that support tempered glass infill panels. Roll-In Vinyl for 1/4" and 3/8" (6 and 10 mm) glass is sold separately (see below). Stock lengths can be cut to size and powder coated by CRL from one of our seven standard powder coated finishes (see page 533B). Custom colors are also available.

USE MONOLITHIC TEMPERED GLASS

1-3/4" (45 mm)
5/8" (16 mm)
3/4" (19 mm)
1-5/8" (41 mm)

CAT. NO.	DESCRIPTION	FINISH	LENGTH
M121M	Aluminum Glazing Sash	Mill	21'-2" (6.45 m)

Minimum order: 1 each. Must ship common carrier.
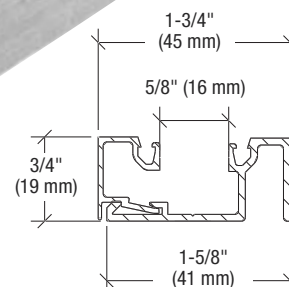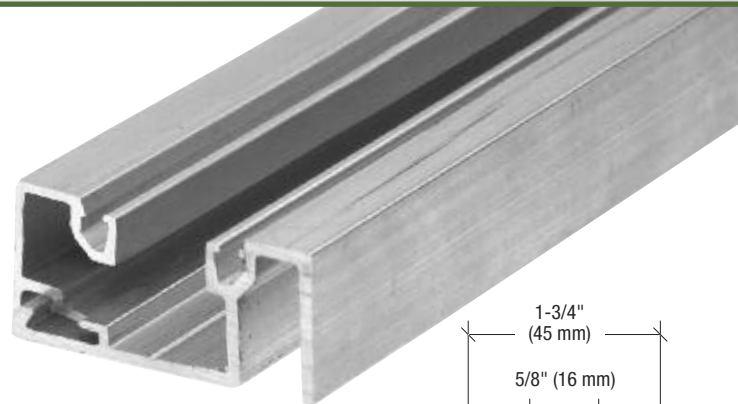
CRL Roll-In Vinyl for Aluminum Glazing Sash

- Two Sizes for Use With 1/4" or 3/8" (6 or 10 mm) Thick Tempered Glass

CRL offers two sizes of Roll-In Glazing Vinyl for supporting 1/4" or 3/8" (6 or 10 mm) tempered glass installed in our Cat. No. M121M Aluminum Glazing Sash (see above).

SDS ONLINE

Roll-In Vinyl for 1/4" or 3/8" (6 or 10 mm) Tempered Glass
M121M Aluminum Glazing Sash Assembly

CAT. NO.	DESCRIPTION	ROLL LENGTH
M121V14	Roll-In Glazing Vinyl for 1/4" (6 mm) Glass	100' (30.5 m)
M121V38	Roll-In Glazing Vinyl for 3/8" (10 mm) Glass	100' (30.5 m)

Minimum order: 1 roll.

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CRL U S ALUMINUM
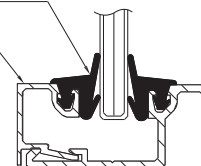
CRL Monolithic Tempered Rail Glass

NEW!

- All Glass Panels Ship Cut and Tempered, Ready to Install
- Three Standard Monolithic Glass Thicknesses to Choose From For Gate Applications
- Clear Tempered and Low Iron (Starphire) Glass Types Available
- Custom Sizes, Fabrication, Drilling, and Edge Work Available

Designed for interior and exterior glass gate applications, CRL's "Rail Glass" is fabricated and tempered in accordance with Federal Specifications: ANSI Z97.1, CPSC 16, and CFR 1201 standards. Custom sizes, fabrication, and edge work is also available. Wood crating charges will apply (maximum 1500 pounds [680 kg] per crate). Contact CRL's Railing Technical Sales for more information at (800) 421-6144 (U.S.), (877) 421-6144 (Canada), or (323) 588-1281 (International). Ask for Ext. 7730. You can also send email to **railings@crlaurence.com**. **NOTE**: Check your local building codes for glass type required.

Clear Monolithic Tempered

Low Iron Starphire® Monolithic Tempered

USE MONOLITHIC TEMPERED GLASS

- Proudly Produced in the U.S.A.

Standard Edge Work

1/4" (6 MM) THICK CLEAR AND LOW IRON STARPHIRE® TEMPERED GLASS

CAT. NO.	SIZE	DESCRIPTION
MG6CC	Custom Size (Specify)	Clear Tempered
MG6LC	Custom Size (Specify)	Low Iron Starphire® Tempered

Minimum order: 1 each. Boxing and crating charges will apply for all orders.

3/8" (10 MM) THICK CLEAR AND LOW IRON STARPHIRE® TEMPERED GLASS

CAT. NO.	SIZE	DESCRIPTION
MG10CC	Custom Size (Specify)	Clear Tempered
MG10LC	Custom Size (Specify)	Low Iron Starphire® Tempered

Minimum order: 1 each. Boxing and crating charges will apply for all orders.

1/2" (12 MM) THICK CLEAR AND LOW IRON STARPHIRE® TEMPERED GLASS

CAT. NO.	SIZE	DESCRIPTION
MG12CC	Custom Size (Specify)	Clear Tempered
MG12LC	Custom Size (Specify)	Low Iron Starphire® Tempered

Minimum order: 1 each. Boxing and crating charges will apply for all orders.

CRL Laminated Tempered "Rail Glass"

NEW!

- Laminated Clear Tempered and Low Iron Starphire® Glass Types Available
- Flat Polished Edges With CRL's "Precise Edge" Technology
- Custom Sizes, Fabrication, and Edge Work Available

CRL's Laminated "Rail Glass" Panels for glass gate applications meet the test criteria of ASTM C1172, ANSI Z97.1, CPSC 16, and CFR1201 standards, and are produced with a rigid Ionoplast™ interlayer. Our "Precise Edge" Technology dramatically improves the edge quality of laminated glass and gives each flat polished edge a consistent clean look and feel. Custom sizes, fabrication, and edge work is available. Wood crating charges will apply (maximum 1500 pounds [680 kg] per crate). Contact CRL's Railing Technical Sales for more information. **NOTE**: Check your local building codes for glass type required.

Clear Laminated Tempered

Low Iron Starphire® Laminated Tempered

Precise Edge Technology

9/16" (13.52 MM) THICK CLEAR AND LOW IRON STARPHIRE® LAMINATED TEMPERED GLASS

CAT. NO.	SIZE	DESCRIPTION
LG13CC	Custom Size (Specify)	Laminated Clear Tempered
LG13LC	Custom Size (Specify)	Laminated Low Iron Starphire® Tempered

Minimum order: 1 each. Boxing and crating charges will apply for all orders.

Starphire® is a registered trademark of PPG Industries Ohio, Inc.

USE LAMINATED TEMPERED GLASS

- Proudly Produced in the U.S.A.

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CRL US ALUMINUM

Railing Tools and "Also From C.R. Laurence"

Architectural Metals

Band Saws **NEW!**

Commercial Hardware

Drills and Taps

Frameless Shower Hardware

Glass and Glazing

Glass Dollies

Glazier's Gloves

Guarda™ Security Systems

Hospitality and Service Hardware

Laser Tools

Maintenance/Cleaning Products

Makita® Grinder

Makita® Saws and Blades

Measuring Tools

Merchandising Posters

Office Partition Systems

Riv-Nut Insert Fasteners

Shims and Setting Blocks

Stainless Steel Restoration Kit **NEW!**

Transaction and Security Hardware

U.S. Aluminum Systems

Vacuum Lifters

CRL
U.S ALUMINUM®
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These products and more can be found in this catalog section. On the top and bottom of each page are direct search instructions for viewing them on our web site. You can also enter the catalog number into the Search Box for a direct link to the product and **More Choices** in that category. To view **More Choices**, simply click on the red and white icon to be taken to a larger selection.

MORE CHOICES
crlaurence.com

CRL Railing Tools and Accessories

PAGES 549B-566B

- Metal Cutting Saws and Grinders
- Laser and Measuring Tools
- Glass Handling Equipment
- Railing Fasteners and Adhesives
- Maintenance Products
- Surface Restoration

"Making do" with tools and accessories can sometimes lead to shortcuts that show up in the end result. On the other hand, using CRL Professional Tools and Accessories can lead to a job well done, and give your company a reputation for the highest quality. For that reason CRL offers a selection of Metal Cutting Saws, Grinders, Lubricants, Laser and Measuring Tools, Vacuum Lifters, Dollies, Shims of all types, and more. Use our Professional Brushed Stainless Steel Restoration Kit to remove scuffs, oxidation, and scratches, thus helping restore surfaces to their natural beauty.

Also From C.R. Laurence

PAGES 567B-572B

- 487 OfficeFront™ Partition System
- U.S. Aluminum Storefront Systems
- U.S. Aluminum Curtain Wall Systems
- Architectural/Commercial Hardware
- Frameless Shower Hardware
- Transaction/Hospitality/ Guarda™/Automotive Glazing Products

Although you may know CRL best from using our Railing Hardware Systems and Products, we also offer other product lines that may help you diversify your business investments. Please go to **crlaurence.com** to view C.R. Laurence Company in its entirety. U.S. Aluminum Storefront Systems, U.S. Aluminum Curtain Wall Systems, Office Partition Systems, Architectural and Storefront Hardware, Frameless Shower Hardware, Transaction and Hospitality Hardware, Guarda Security Products, and Automotive Glazing Products all offer opportunities for you to expand your business.

CRL Services

PAGES 573B-575B

- Catalogs and Literature
- Customer Services
- Web Library
- Online Assistance

Doing business with CRL is easy because we provide several options for ordering. Whether you prefer to order online, by phone, by fax, or in person at our CRL Will Call counters, CRL's knowledgeable staff is dedicated to assisting. Of all of the ordering options, online ordering is most definitely the trend. With this in mind CRL has followed its ISO9001 creed of Ever Improving Quality. Our web site continues to be a company priority. We are using our advanced technology to build a "Web Library" that will make CRL web site navigation easier than ever. Please see pages 574B and 575B for the CRL Web Library story.

CRL Technical Sales Directory

PAGES 576B-578B

- Phone, Fax, and Email Directory
- CRL Business Groups

When you need technical information, C.R. Laurence wants you to work with the best qualified individual, not be transferred from desk to desk, or get the "run-around". That is why we established divisions within the company to get you the answers you require in the most expeditious manner. Pages 576B to 578B define our Business Groups. Each has a dedicated phone extension, email address, and fax number. Please utilize this information when requesting help from CRL. You will be helping yourself by letting qualified CRL Professionals serve you.

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TOLL Phone: (800) 421-6144
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From Anywhere in the U.S. or Canada

CRL US ALUMINUM

CRL 4" x 6" Horizontal/Vertical Metal Cutting Band Saw

NEW!

- Great for Hand Rail, Cap Rail, Base Shoe, and Cladding Fabrication at the Jobsite
- Cuts Everything From Brass and Aluminum to Rugged Alloy and Tool Steels
- Ultimate in Metal Cutting Versatility
- Two-Position Rocker Switch With Safety Lock-Off
- 0-55 Degree Left Miter Cuts on Horizontal
- 120V 7AMP 1 HP Motor With Three Speeds
- U.L. Certified

Quickly and accurately cut rectangular work pieces up to 4" x 6" (102 x 152 mm), and round 4-1/2" (114 mm) diameter pieces using the Band Saw's adjustable horizontal and vertical positions. Choose from three speeds to cut everything from brass and aluminum to rugged alloy and tool steels. Includes a 1/2" x 0.025" x 64-1/2" (13 x .64 x 1638 mm) blade (14 TPI), plus a heavy-duty stand with two wheels.

Replacement Blade

CAT. NO.	DESCRIPTION
BNDSW1	120 Volt 4" x 6" Horizontal/Vertical Band Saw*
BNDSWB64	Replacement Blade

Minimum order: 1 each. *Must ship common carrier.

CRL Makita® 12" Cold Cut Metal Chop Saw

- 60 Tooth Carbide Blade Supplied With Saw is Ideal for Cutting Mild Steel
- Optional 12" x 1" Arbor 76 Tooth Carbide Blade Available for Cutting Thin Gauge Steel, or Stainless Steel Such as Cladding

The CRL Makita® 12" (305 mm) Cold Cut Metal Chop Saw is supplied with a 60 tooth dry cutting carbide blade that is excellent for cutting mild steel, such as many hand and cap rails. No lubrication or coolant required. The Saw has a fixed angle head and adjustable fence/clamp stop to allow 0 - 45 degree cutting. A 4-1/2" (114 mm) maximum cut depth can be achieved at 90 degrees. This Cold Cut Metal Chop Saw is powered by a 15 Amp, 1300 RPM motor.

NOTE: For cutting thin gauge steel and stainless steel (such as cladding) without causing distortion or flaring, use Cat. No. A91039 12" x 1" (305 x 25 mm) Arbor 76 Tooth Carbide Blade (purchased separately).

CAT. NO.	DESCRIPTION
LC1230	110 Volt 12" Cold Metal Chop Saw With A90532 Blade
A90532	Replacement 12" x 1" Arbor 60 Tooth Carbide Saw Blade
A91039	Optional 12" x 1" Arbor 76 Tooth Carbide Blade for Stainless Steel

Minimum order: 1 each.

CRL Makita® 18 Volt Cordless Metal Cutting Saw Kit

- 2" (51 mm) Maximum Cutting Depth
- 3600 RPM No Load Speed
- 30 Tooth Carbide Blade for Mild Steel and Aluminum Cutting Included

VIDEO

The dry cutting BCS550 Metal Cutting Saw Kit comes equipped with a 30 tooth 5-3/8" (137 mm) diameter carbide tipped saw blade engineered for mild steel or aluminum fabricating. Also included are two 18 volt 3.0Ah lithium-ion batteries and a 110 volt charger to make sure you are never out of power. Everything is packed in a sturdy plastic case.

The 56 tooth 5-3/8" (137 mm) A95794 Carbide Saw Blade is the first in its class designed to cut stainless steel material with a cordless saw.

NOTE: The A95794 Carbide Saw Blade is engineered for stainless steel cutting only, and should not be used on aluminum.

Makita is a registered trademark of Makita Corporation.

CAT. NO.	DESCRIPTION
BCS550	18 Volt Cordless Metal Saw Kit
BCS550SS	18 Volt Cordless Metal Saw Kit with A95794 Blade for Stainless Steel
BL1830	Replacement 18V DC Lithium-Ion Battery Cartridge
DC18RA	Replacement 18V Lithium-Ion Battery Charger - 110 Volt
A95794	5-3/8" (137 mm) 56 Tooth Carbide Blade for Stainless Steel

Minimum order: 1 each.

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CRL US ALUMINUM

CRL Makita® Portable Band Saw

- Variable Speed Dial for Optimum Cutting Speed
- Powerful 6.5 AMP Motor for the Toughest Jobs
- Belt Lever for Fast and Easy Blade Replacement
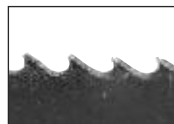
Bi-Metal Blade

This Portable Band Saw cuts up to 4-3/4" x 4-3/4" (120 x 120 mm) round or rectangular material to handle most requirements, and uses standard 44-7/8" x 1/2" (1140 x 13 mm) metal cutting blades. The CRL Cat. No. 792556A Bi-Metal Blade lasts up to three times longer than carbon steel blades. Cutting speeds range from 200' to 350' (61 to 106 m) per minute for common metals including: aluminum, brass, chrome, copper, iron, mild steel, and stainless steel. For accurate cuts this tool features dual-bearing blade guides, adjustable stopper plate, and a fluorescent job light. Included with the Saw is one each Band Saw Blade, Hex Wrench, Wrench Holder, and a Molded Carrying Case.

CAT. NO.	DESCRIPTION
2107FK	Portable Band Saw
792556A	Replacement Bi-Metal Blade

Minimum order: 1 each.

CRL Makita® 4-1/2" Angle Grinder

- Durable and Ergonomic 110V AC Tool
- Powerful 6.0 AMP Motor Delivers 11,000 RPM
- Small Circumference 2-1/4" (57 mm) Barrel Grip for Comfort
- Refined Design Weighing Only 3.1 Lbs. (1.4 kg) for Better Control
- Great for Cutting and Notching Metal Cladding and 1 x 19 Type Stainless Steel Cables

STANDARD EQUIPMENT:
- 4-1/2" (114 mm) Grinding Wheel
- Wheel Guard
- Lock Nut
- Lock Nut Wrench
- Side Handle
- Inner Flange

This CRL Makita® Angle Grinder is the perfect tool for cutting, notching, and edge finishing of metal cladding, as well as for cutting 1 x 19 type stainless steel cables in railing applications. The 6 AMP, 11,000 RPM motor delivers smooth continuous power for even the most demanding applications. The small-circumference barrel grip and light weight assure increased control and added comfort. Motor brushes are externally accessible, and the all-ball bearing design with a metal gear housing combine to make the GA4530 the ultimate in serviceability and durability.

The accessory control handle can be mounted on the left or right for added operator comfort, while the entire gear housing rotates to 90 degree stop-points to aid with cutting operations. Special 'Labyrinth' construction featuring protective, zig-zag varnish seals help protect the motor from dust and debris, and extend tool life. Minimum order is one each.

CAT. NO. GA4530

CRL Makita® Ultra-Thin Cut-Off Wheel

- Used for Cutting and Notching Stainless Steel Cladding and Cables
- 4-1/2" (114 mm) Diameter
- Just 1/32" (.8 mm) Thick
- 7/8" (22 mm) Arbor

CRL Makita® Ultra-Thin Cut-Off Wheels are just 1/32" (.8 mm) thick for minimal stock removal and quick cutting when notching or cutting metal cladding. The fine grit edge also cuts with minimum edge distortion. These stainless wheels are sold by the package of 25.

CAT. NO.	DESCRIPTION
B46159	25-Pack 4-1/2" (114 mm) Ultra Thin Wheel
1351032*	Wheel Guard
2243789*	Inner Flange

Minimum order: 1 pack or 1 each. *Inner Flange and Wheel Guard are required to use Ultra Thin Wheels on the GA4530 Grinder.

CRL Makita® Resin Fiber Finishing Discs

- Used to Remove Sharp Edges or Burrs From Cladding or Hand Rails
- 4-1/2" (114 mm) Diameter
- Superior Stock Removal

These 4-1/2" (114 mm) Finishing Discs are great for wood or metal. Quickly finish freshly cut cable or cladding edges to remove burrs or rough edges. 7/8" (22 mm) center hole. Choice of three grits.

CAT. NO.	DESCRIPTION
794106A5	5-Pack 50 Grit Discs
794107A5	5-Pack 80 Grit Discs
794108A5	5-Pack 120 Grit Discs
7430363*	4-1/2" (114 mm) Rubber Backer Pad
1930480*	Lock Nut for Backer Pad

Minimum order: 1 pack or 1 each. *Becker Pad and Lock Nut are required to use Finishing Discs on GA4530 Grinder.

Makita is a registered trademark of Makita Corporation.

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CRL
US ALUMINUM

CRL Tube Wax Lubricant

- Increases Production and Improves Tool Life
- Excellent for Sawing, Grinding, Drilling, and Tapping
- Reduces Screw Breakage and Speeds the Installation by Lubricating the Threads

A special formulation of solid waxes that comes in a convenient, soft stick. Use it for all sawing, grinding, drilling, tapping, sanding, and fastening operations to increase production quality and improve tool life. Neat and easy to handle, requiring no special storage or handling.

SDS ONLINE

CAT. NO.	CONTENTS	QTY/CASE
WS140	15 Oz. (425 g)	24

Minimum order: 1 each.

CRL Scrape and Pry Bars

- Multi-Purpose Tools Made of Hardened, Tempered Steel
- Two Sizes With Chisel Ground Edges

CRL Scrape and Pry Bars are versatile tools made of the finest hardened, tempered tool steel. Both ends are chisel ground for scraping or prying. The 4050 is 1-3/4" (45 mm) wide, and the 3040 is 9/16" (14 mm) wide. One end has a 50 degree angle bend. Both tools have a nail puller hole. Our most popular model is 10" (254 mm) long – just the right size for your tool box. Minimum order is one each.

10" (254 mm)
1-3/4" (45 mm)

- Most Popular
CAT. NO. 4050

5-1/2" (140 mm)
9/16" (14 mm)
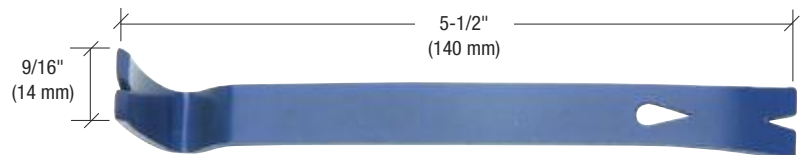
- Tool Belt Size
NOTE: Images not to scale.
CAT. NO. 3040

CRL Blue Masking and Trim Securing Tape

- Leaves No Adhesive Residue for Up to Seven Days
- Ideal for Masking Tooled Silicone Joints and Securing Cladding

CRL Blue Masking and Trim Securing Tape is ideal for holding cladding in place on base shoe while silicone cures. Also used as a masking tape for silicone cap beads when finishing off the base shoe's top, or any application where the metal needs to be protected.

CAT. NO.	WIDTH	ROLL LENGTH
BL9934	3/4" (19 mm)	180' (54.8 m)
BL991	1" (25 mm)	180' (54.8 m)
BL99112	1-1/2" (38 mm)	180' (54.8 m)
BL992	2" (51 mm)	180' (54.8 m)

Minimum order: 1 roll. All Masking Tape can be combined for quantity pricing.

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TOLL Phone: (800) 421-6144
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or enter the Catalog Number for complete product information

CRL US ALUMINUM

CRL Cross-Line Self Leveling Laser Kit

- Self-Leveling Within 3 Degrees, 49 Foot (15 meter) Range
- Locking Mechanism Blocks Self Leveling and Locks Display
- Vertical Line, Horizontal Line, or Both

The CRL LD200 Cross-Line Self Leveling Laser Kit allows you to cast a vertical or horizontal solid line, or both at the same time. When the device is tipped beyond 6 degrees, the laser will begin flashing and an audio alarm will sound. This kit also includes: three AA batteries, a 1/4-20 threaded mounting hole for use with tripods, a 360 degree swivel mount, a magnetic wall mount, a laser target (to extend useful range), and a rugged nylon storage bag. Minimum order is one each.

CAT. NO. LD200

CRL Standard Spot Laser Tool

- Establishes Plumb and Level
- Projects Laser Beams 3 Ways
- Self-Leveling Within 6 Degrees

The CRL Standard Spot Laser Tool gives you the convenience of a torpedo level with the quality of information available only from a professional point-to-point laser. Three bright laser points allow the PLS3 to be used anywhere on the job site for level reference and point-to-point plumb from floor to ceiling, or from up to 50 feet (15.2 m) off the ground. Weighing only 12 ounces (.33 kg), this hand held unit operates on three AA batteries (not included) for up to 30 hours. It comes with a leather carrying pouch, operating manual, and one-year manufacturer's warranty. Minimum order is one each.

CAT. NO. PLS3

CRL Deluxe Spot Laser Tool

- Establishes Plumb, Level, and Square
- Projects Laser Beams 5 Ways
- Self-Leveling Within 8 Degrees

The CRL Deluxe Spot Laser Tool provides simultaneous plumb, level, and square references in a compact, accurate, and affordable package. True point-to-point alignment information speeds layout and installation of curtainwalls, gates, doors, windows, railings, and skylights. Five bright reference points are easily seen indoors or out, and the unit is powered by three AA batteries (not included). It comes complete with floor mount, magnetic wall mount, layout targets, carrying case, operating manual, and one-year manufacturer's warranty. Minimum order is one each.

CAT. NO. PLS5

CRL 5-Point Laser Level

- Increases Productivity - Projects Plumb, Level, and Square Laser Points
- Electronically Motorized Leveling
- Range Up to 100 Feet (30.5 m)
- Carrying Case Included

The CRL 5-Point Laser Level eliminates set-up time and ensures accuracy. It transfers and aligns level, plumb, 90 degrees, and grade points. The robust housing is water and dust proof to ensure years of dependable operation. Includes: laser tool, multi-purpose attachment, recalibration wrench, laser enhancement glasses, mounting strap, and carrying case. Requires three AA batteries (not included). Minimum order is one each.

CAT. NO. GPL5

CRL Laser Distance Measurer

- Measures to 130 Feet (39.6 m) With Accuracy of 1/8" (3 mm) or Better
- Measures Distances, Areas, and Volumes for Material Estimates

NEW!

This CRL Laser Distance Measurer will measure up to 130 feet (39.6 m) and display the distance in either feet-inch-fractions, decimal feet, inches, or meters. The built in calculator will also calculate area or room volume. The automatic memory function stores the 10 most recent measurements. Accuracy is within 1/8" (3 mm). Minimum order is one each.

CAT. NO. 3356L

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CRL US ALUMINUM

CRL "Angletronic" Measuring Tool

- Measures Angles Between 0 and 180 Degrees
- Stores Up to 56 Measurement Values
- Battery-Saving Automatic Shut-Off Feature

With the CRL "Angletronic", angles between 0 and 180 degrees can be measured quickly, precisely and reliably, and read off the digital display. You can even take measurements in difficult positions, store the measurements, and access them at a later time.

Optoelectronics provides accuracy and maintenance free service for years. Operates on four AA batteries (included). Minimum order is one each.

CAT. NO. TT505

CRL POLYCAST® Protractor/Angle Finder

- High-Impact POLYCAST® Plastic Construction
- Adjustable Angle Pointer for Marking Angles
- Magnetic Base

The CRL Magnetic POLYCAST® Protractor/Angle Finder measures any angle from 0 to 90 degrees in any quadrant. It comes with a dampened pendulum for quicker readings and an adjustable angle pointer for marking and transferring angles. The magnetic back and base provides "hands-free" use when working with ferrous surfaces. Minimum order is one each.

CAT. NO. 36MPP

CRL "Anglefix" Measuring Tool

- Measures Angles Quickly and Precisely
- Built-in-Spirit Levels Help Keep it in Position
- Easy-to-Read Analog Display

The "Anglefix" Measuring Tool is a precision measuring device that works quickly and easily. Built-in horizontal and vertical spirit levels assist in keeping it in position, so you can reliably set and read any angle. The angle measurement is displayed on an easy to read analog display. A clamping screw locks the "Anglefix" in any position. Two types of "Anglefix" are offered. The Mini "Anglefix" is a handy tool for glaziers, interior finishers, and metal workers. The Maxi "Anglefix" is intended for glaziers, carpenters, builders, and metal workers. The Maxi Model is additionally fitted with points, one of which can be removed and fitted with a pencil for compass use.

CAT. NO.	MODEL	LEG LENGTH	MEASURING POINT
TT450	Mini	14-9/16" (370 mm)	No
TT500	Maxi	23-5/8" (600 mm)	Yes

Minimum order: 1 each. Sizes can be combined for quantity pricing.

CRL Out-of-Plumb Level Gauge NEW!

The CRL Out-of-Plumb Level Gauge gives you a precise "Out-of-Plumb" dimension. The Out-of-Plumb Gauge mounts to your level in minutes, or order the Cat. No. HF0172 Level Set. The scale on the side of the Gauge reveals your "Out-of-Plumb" measurement.

CAT. NO.	DESCRIPTION
HF01	Out-of-Plumb Level Gauge
HF0172	Out-of-Plumb Gauge and 72" Aluminum Level Set

Minimum order: 1 each.

CRL Stanley® FatMax® Levels

- Superior Aluminum Structure for Increased Durability
- Shock Absorbing End Caps

The CRL Stanley® FatMax® Levels are constructed with a seamless one-piece aluminum extrusion, and have a level accuracy of 0.0005" (.01 mm). Block vials and shock absorbing end caps assure maximum accuracy and durability. FatMax® Levels also feature non-marring side bumpers to prevent damage when working against finished surfaces.
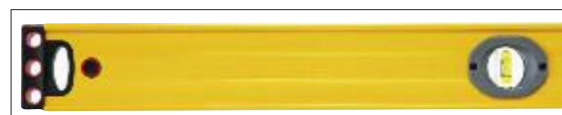
CAT. NO.	LENGTH
ST43524	24" (609 mm)
ST43548	48" (1219 mm)
ST43572	72" (1829 mm)

Minimum order: 1 each.

Polycast is a registered trademark of Empire Level Mfg. Corp.
Stanley and FatMax are registered trademarks of Stanley Logistics, LLC.

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CRL US ALUMINUM

CRL Super Tip Granite, Marble, and Tile Drill Bits

- Designed for Hammer or Rotary Drills Only
- Four Diameters to Choose From

Carbide "Super" Tip

CRL Super Tip Granite, Marble, and Tile Drill Bits are especially suited for drilling holes 50% faster in stone and tile.

CAT. NO.	DIAMETER	LENGTH
SDB18	1/8" (3.2 mm)	3" (76 mm)
SDB316	3/16" (4.8 mm)	3" (76 mm)
SDB14	1/4" (6.3 mm)	4" (102 mm)
SDB38	3/8" (9.5 mm)	5" (127 mm)

Minimum order: 1 each. Sizes can be combined with other Granite Drills for quantity pricing.

CRL Construction Master® Pro Calculator

- Feet-Inch-Fraction Calculator
- Includes Problem Solving for Stairs, Studs, Drywall, Siding, Panels, and More

The Construction Master® Pro quickly finds solutions to challenging building and dimensional problems, and eliminates the need to remember complicated formulas. Enter the numbers just as you would say them and the solutions appear in an instant. Battery included. Minimum order is one each.

CAT. NO. CM6

CRL 18-Volt Cordless Variable Speed Impact Driver/Drill Kit

- Reversible With Two Speed Ranges: 0 to 500, and 0 to 1150 RPM
- Impact Drill Frequency of 6,400 or 18,000 Strokes Per Minute

The CRL 18-Volt Cordless Variable Speed Impact Driver/Drill is a lot of tool for a very conservative price. Put a drill bit or the included double-headed screwdriver bit into the keyless 3/8" (10 mm) chuck and pull the trigger for drilling/driving.

CAT. NO.	DESCRIPTION
LD147	18-Volt DC Cordless Impact/Driver Drill Kit
LD147B	Replacement 18-Volt DC Battery Cartridge for LD147
LD147C	Replacement Charger for LD147B 18-Volt Battery - 110 Volt
LD147C240V	Replacement Charger for LD147B 18-Volt Battery - 240 Volt
LD147SW	Replacement Switch for LD147

Minimum order: 1 each. Kit Includes: Driver/Drill, Battery, Charger, Six Drill Bits, Magnetic Bit Holder, plus Molded Carrying Case.

CRL 6" Quick-Grip Bar Clamp

- Great for Holding Cladding in Place While Adhesive Cures
- Maximum Grip Range is 6" (152 mm)

The pistol-grip handle on this handy 6" (152 mm) Quick-Grip Bar Clamp lets you set it or release it easily with one hand. It's an excellent tool for holding Cladding to Base Shoe while the adhesive sets. Large, pliable pads won't mar work surfaces. Light and easy to handle. Minimum order is one each.

CAT. NO. 546QC

Construction Master is a registered trademark of Calculated Industries, Inc.

CRL Contractors Series Diamond Drills

- Ideal for Brick, Block, Concrete, and More
- 6" (152 mm) Drilling Depth

Our Contractors Series Diamond Drills are excellent for brick, block, concrete, mortar, marble and other similar materials. 6" (152 mm) drilling depth with a removable center pilot. Use wet or dry in a hand held drill with a 1/2" (13 mm) chuck.

CAT. NO.	DIAMETER
CSDD1	1"
CSDD118	1-1/8"
CSDD114	1-1/4"
CSDD112	1-1/2"
CSDD2	2"
CSDD212	2-1/2"

Minimum order: 1 each.

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CRL US ALUMINUM

CRL RAILING TOOLS AND ACCESSORIES

CRL T-Handle Tap Wrench

- Positive Grip Chuck
- Available in Three Sizes

CAT. NO. TR112E
Wrench for #12 to 5/16" Taps

CAT. NO. TR1E
Wrench for #0 to 1/4" Taps

CAT. NO. TR2E
Wrench for 1/4" to 1/2" Taps

These CRL T-Handle Tap Wrenches have a sliding handle with spring tension stop, which can be extended to full length for more leverage. They have a positive grip knurled nut for tightening onto the tap. Three sizes are available to hold tap sizes from #0 to 1/2". Minimum order is one each.

CRL Jobbers Length Fractional Size High Speed Steel Drill Bits

NEW!

- Specific Drill Sizes for CRL Taps
- New Tin Coated Bits for Harder and Faster Drilling

These CRL Jobbers Length High Speed Steel Drill Bits are available in the most popular fractional sizes for general use in metal or wood. For a complete list of available sizes, go to **crlaurence.com**.

CAT. NO.	DRILL BIT SIZE
601316	3/16" for 1/4"-20NC Taps
60114	1/4" for 5/16"-18NC Taps
SLDF257	Tin Coated "F" 1/4" for 5/16"-18NC Taps
SLD516	Tin Coated "F" 5/16" for 3/8"-16NC Taps
601516	5/16" for 3/8"-16NC Taps
601716	7/16" for 1/2"-13NC Taps
6012764	27/64" for 1/2"-13NC Taps

Minimum order: 1 each. Sizes can be combined for quantity pricing.

CRL Fractional Size Steel Taps

- Five Different Fractional Sizes
- High Carbon Steel

Used for ordinary threading, these CRL High Carbon Steel Taps come in the most commonly used sizes. Minimum order is one each.

NEW!

CAT. NO. 151420 1/4"-20NC
CAT. NO. 151428 1/4"-28NF
CAT. NO. T51618TC Tin Coated 5/16"-18NC
CAT. NO. 155618 5/16"-18NC
CAT. NO. 153816 3/8"-16NC
CAT. NO. 151213 1/2"-13NC

CRL Adjustable Click Torque Wrench

- Knurled Grip Handle
- 10-100 Foot-Pounds (16.9 to 132.2 Nm)
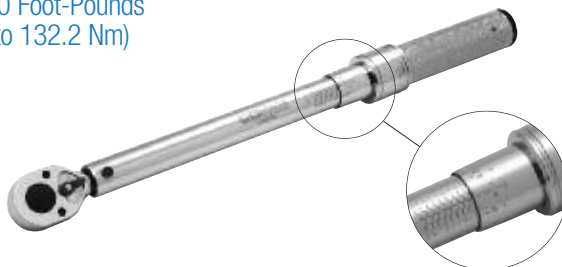
The CRL Adjustable Click Torque Wrench has a ratchet head and a 3/8" square drive, with 10-100 foot-pounds (16.9 to 132.2 Nm) worth of torque. The grip is knurled, and the overall length of the tool is 15-1/2" (394 mm). Minimum order is one each.

CAT. NO. 85555A

CRL Impact Sockets and Accessories

CAT. NO. 7175P 3/8" Drive Extension
CAT. NO. 7714H 7/16" 6-Pt. Socket
CAT. NO. 7716H 1/2" 6-Pt. Socket
CAT. NO. 7718H 9/16" 6-Pt. Socket
CAT. NO. 7719H 19 mm 6-Pt. Socket
CAT. NO. 7290 3/8" Hex Bit

CAT. NO.	WORKS WITH	DESCRIPTION
7175P	All 3/8" Drives and Hex Bits	3/8" Drive – 3" (76.2 mm) Drive Extension
7714H	WBA14X3 Anchors	3/8" Drive – 7/16" Deep Socket 6-pt.
7716H	EBA334 Anchors	3/8" Drive – 1/2" Deep Socket 6-pt.
7718H	WBA38X4 Anchors	3/8" Drive – 9/16" Deep Socket 6-pt.
7719H	EBA335 Anchors	3/8" Drive – 19 mm Impact Socket 6-pt.
7290	All SHCS12 Cap Screws	3/8" Drive – 3/8" Hex Bit

Minimum order: 1 each.

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CRL S7950 8" Pump-Action Vacuum LIfter

- Safe Lifting Weight Up to 125 Pounds (57 kg)
- Heavy-Duty Stainless Steel Handle
- Tough ABS Plunger With Red-Line Indicator
- Wide Release Valve Lever With Safety Guard Permits Quick and Complete Release

CE

CAT. NO. S7950
Minimum order: 1 each.

CRL Sure-Grip 8" Vacuum Lifter

- Greatest Lifting Capacity of Any 8" (203 mm) Pump Activated Vacuum Lifter Up to 150 Pounds (68 kg)
- Comfortable Grip
- Convenient Vacuum Indicator and Release
- Superior "Press and Pump" Attachment Feature

CE GS geprüfte Sicherheit

MANUFACTURED IN AUSTRALIA BY C.R. LAURENCE

CAT. NO. S338
Minimum order: 1 each.

CRL S108 8" Pump-Action Vacuum Lifter

MANUFACTURED IN AUSTRALIA BY C.R. LAURENCE

- Safe Lifting Weight Up to 120 Pounds (54 kg)
- Tough ABS Polymer Handle
- Molded Carrying Case
- Four Extra Mounting Points for Attaching to Lifting Frames and Jigs

Threaded Holes for Mounting

CE GS geprüfte Sicherheit

CAT. NO. S108
Minimum order: 1 each.

CRL S110 10" Pump-Action Vacuum Lifter

MANUFACTURED IN AUSTRALIA BY C.R. LAURENCE

- Safe Lifting Weight Up to 175 Pounds (79 kg)
- A Bigger Cup for Larger Heavier Loads
- Tough ABS Polymer Handle
- Comes With Protective Carrying Case

CE GS geprüfte Sicherheit

CAT. NO. S110
Minimum order: 1 each.

CRL Glass Handling Gloves

CAT. NO. 10
Knit Wrist Gloves

CAT. NO. 12
Gauntlet Cuff Gloves

- Flexible and Smooth Rubber Coating on Fingers and Palms for Handling Glass
- Two Popular Styles With a Very Comfortable Fit

Minimum order: 1 pair. Styles can be combined for quantity pricing.

CRL Disposable Nitrile Gloves

NEW!

- Powder-Free
- 4 mil Thickness
- Superior Durability and Dexterity
- Limited Protection Against Solvents

CAT. NO.	SIZE	QTY/BOX
CRL7M	Medium	100 Each
CRL7L	Large	100 Each
CRL7X	X-Large	100 Each

Minimum order: 1 box. Sizes can be combined for quantity pricing.

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CRL US ALUMINUM

CRL Plate Glass Dollies

- Caster Design Allows Turn-on-a-Dime Maneuvering
- Felt Pads Cushion Loads
- Three Available Lengths

CRL Plate Glass Dollies are ideal for moving large glass infills for railings and windscreens. Their hardwood construction features ball bearing casters and wheels. The 1-1/2" (38 mm) center groove is wide enough for even thick laminated panels. Felt pads on either end cushion loads during movement. Dollies have a capacity of 350 pounds (159 kg). **NOTE:** Not available in Australia.

CAT. NO.	LENGTH
13063	36" (914 mm)
13065	60" (1524 mm)
13066	72" (1829 mm)

Minimum order: 1 each. Sizes can be combined for quantity pricing.

CRL All Terrain Dolly

VIDEO

- Terrific for Moving Heavy Glass Panels Around the Job Site
- Goes Where Other Glass Dollies Won't
- Built-In 8" Wood's Powr-Grip® Vacuum Cup
- Includes a Set of Our RB200 Roller Blocks
- 400 Pound (181 kg) Capacity
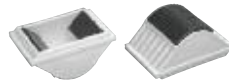
CRL's All Terrain Dolly is like having an extra person on the job site. Moving large glass lites, insulating units, patio door panels, or even stone slabs across any terrain is now a snap. Curbs, door sills, and scrap lumber are no longer obstacles when your crew is using the All Terrain Dolly. Its large 16" (406 mm) diameter pneumatic tire won't bog down in grass or dirt, common to residential or commercial job sites. This handy device also eliminates back and arm strain associated with carrying heavy loads suspended over long distances. Included is a Wood's 8" (203 mm) Powr-Grip® Vacuum Cup and set of Cat. No. RB200 Roller Blocks to protect the panel's edges once unloaded. The Roller Blocks are stored conveniently inside the frame of the All Terrain Dolly so you always know where to find them. Maximum capacity is 400 pounds (181 kg). Minimum order is one each.

CAT. NO. ATD1

CRL Roller Blocks
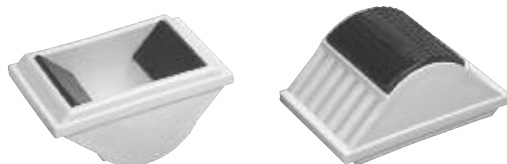
- Roller Design Lets You Rotate Heavy Glass Panels With Ease
- Turn Them Over to Use as Resting Blocks
- Rubber Base Ensures Traction

CRL Roller Blocks were developed to aid in the safe handling of large and/or heavy glass panels. Each of these blocks has a cushioned 90 degree inside corner on which to rest the glass while rotating or maneuvering it into position. Maximum capacity is 400 pounds (181 kg) per block. Minimum order is one pair.

CAT. NO. RB200

Wood's Powr-Grip is a registered trademark of Wood's Powr-Grip Co., Inc.

CRL Two-Wheel Adjustable Glass Dolly

- Perfect for Large and Heavy Glass Panels
- 300 Pound (136 kg) Capacity

With the CRL Two-Wheel Adjustable Glass Dolly, heavy items such as railing panels, storefront doors, framed windows, storm windows, I.G. units or just about any other flat surfaced item can be easily moved in an upright position. The Dolly is adjustable to widths from 2-1/2" to 4-1/2" (63 to 114 mm). The steel carriage is carpeted to prevent marring of the surfaces. Minimum order is one each.

CAT. NO. LD450

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US ALUMINUM

CRL Shimstack Shims

- Adjustable Size Options Lets You Choose the Desired Thickness From 1/16" to 1" (1.6 to 25 mm)
- Standard and Extra Long Sizes

SDS ONLINE

Shimstack Shims give you fast, low cost leveling. 16 heat-sealed pieces make up one 1" (25 mm) stack. Simply snap off individual shims to get the thickness you need. Made of fire resistant, non-staining, black color high-impact plastic with an ASTM rating of 5000 p.s.i. compressive strength.

CAT. NO.	TYPE	THICKNESS	LENGTH
KRS16	Standard	1/16" (1.6 mm)	3-1/2" (90 mm)
KRS26	Extra Long	1/16" (1.6 mm)	4-1/8" (105 mm)

Minimum order: 1000 shims. Must order in increments of 1000. Sizes can be combined for quantity pricing.
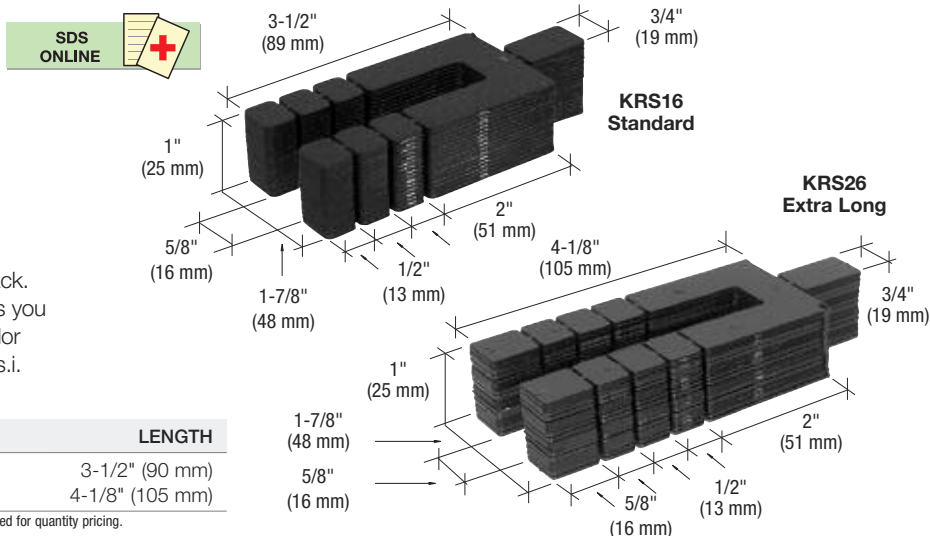
CRL Plastic Horseshoe Shims

- 1/16", 1/8", and 1/4" (1.6, 3.2, and 6.3 mm) Thicknesses
- Simplifies All Rail Leveling Requirements

SDS ONLINE

- Color Coded for Quick Selection

CRL Plastic Horseshoe Shims are made to simplify leveling problems wherever they occur, and have been approved by architects for use in the installation of railings, windows, doors, curtain walls, storefronts, and insulating glass units.

CAT. NO.	COLOR	THICKNESS	"W" WIDTH	"L" LENGTH
PHS4	Black	1/4" (6.3 mm)	1-1/2" (38 mm)	2" (51 mm)
PHS8	Red	1/8" (3.2 mm)	1-1/2" (38 mm)	2" (51 mm)
PHS6	Blue	1/16" (1.6 mm)	1-1/2" (38 mm)	2" (51 mm)
PHS24	Black	1/4" (6.3 mm)	2-5/16" (59 mm)	3" (76 mm)
PHS28	Red	1/8" (3.2 mm)	2-5/16" (59 mm)	3" (76 mm)
PHS26	Blue	1/16" (1.6 mm)	2-5/16" (59 mm)	3" (76 mm)
PHS14	Black	1/4" (6.3 mm)	1-1/2" (38 mm)	3-1/2" (89 mm)
PHS18	Red	1/8" (3.2 mm)	1-1/2" (38 mm)	3-1/2" (89 mm)
PHS16	Blue	1/16" (1.6 mm)	1-1/2" (38 mm)	3-1/2" (89 mm)

Minimum order: 100 shims. Must order in increments of 100. Sizes can be combined for quantity pricing.

CRL Jumbo Plastic Horseshoe Shims

- Large 3" x 4" (76 x 102 mm) Size
- Available in Three Thicknesses
- High Impact Styrene

SDS ONLINE

CRL Jumbo Size Plastic Horseshoe Shims are preferred for use in larger installations. These high impact styrene Shims are molded to a jumbo 3" x 4" (76 x 102 mm) size in standard thicknesses of 1/4", 1/8" and 1/16" (6.3, 3.2, and 1.6 mm). Precisely sized and balanced for vertical and horizontal installation.

CAT. NO.	COLOR	THICKNESS	"W" WIDTH	"L" LENGTH
PHS34	Black	1/4" (6.3 mm)	3" (76 mm)	4" (102 mm)
PHS38	Red	1/8" (3.2 mm)	3" (76 mm)	4" (102 mm)
PHS36	Blue	1/16" (1.6 mm)	3" (76 mm)	4" (102 mm)

Minimum order: 100 shims. Must order in increments of 100. Sizes can be combined for quantity pricing.

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CRL RAILING TOOLS AND ACCESSORIES

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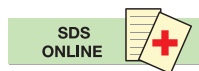
CRL Clear Plastic Horseshoe Shims

- Clear Color Helps Hide Shim
- 1/16", 1/8", and 1/4" Thicknesses

SDS ONLINE

CAT. NO.	THICKNESS	"W" WIDTH	"L" LENGTH
CHS14	1/4" (6 mm)	1-1/2" (38 mm)	3-1/2" (89 mm)
CHS18	1/8" (3 mm)	1-1/2" (38 mm)	3-1/2" (89 mm)
CHS16	1/16" (2 mm)	1-1/2" (38 mm)	3-1/2" (89 mm)

Minimum order: 100 each. Must be ordered in increments of 100. Sizes can be combined for quantity pricing.
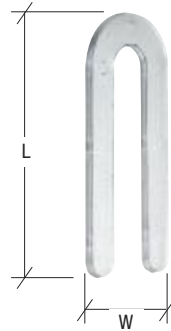
CRL Clear Plastic Horseshoe Shims are made to simplify leveling problems wherever they occur, and have been approved by architects for use in the installation of railings, windows, doors, curtainwalls, storefronts, and insulating glass units. CRL Horseshoe Shims are made of a clear high impact styrene plastic, properly designed and balanced for vertical or horizontal use. Available in three thicknesses 1/16", 1/8", and 1/4" (2, 3, and 6 mm). All sizes have 9/16" (14 mm) space between the legs.

CRL Clear Plastic Setting Blocks

- Barely Visible Blocks are Great for Use in Railing Installations
- 80±5 Durometer Hardness

SDS ONLINE

- Available in Six Sizes

CRL Clear Plastic Setting Blocks are especially suited for use where black neoprene rubber setting blocks are undesirable, such as 'all-glass' railing installations. Custom size Clear Plastic Blocks are available on special order.

CAT. NO.	THICKNESS	WIDTH	LENGTH
PSB040	.040" (1 mm)	1/4" (6 mm)	2" (51 mm)
PSB080	.080" (2 mm)	1/4" (6 mm)	2" (51 mm)
PSB125	1/8" (3 mm)	1/4" (6 mm)	2" (51 mm)
PSB156	5/32" (4 mm)	1/4" (6 mm)	2" (51 mm)
PSB250	1/4" (6 mm)	1/4" (6 mm)	2" (51 mm)
PSB375	3/8" (10 mm)	1/4" (6 mm)	2" (51 mm)

Minimum order: 100 each. Must be ordered in increments of 100. Sizes can be combined for quantity pricing.

CRL Plastic Bearing Shimstrips

- High Compressive Strength
- Snap Off to Required Length for Every Job

SDS ONLINE

CRL Plastic Bearing Shimstrips are intended for use in placing and leveling of precast panels and tilt slabs. Just snap off the length you need for each job, and stack to the required thickness.
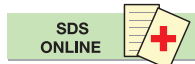
CAT. NO.	THICKNESS	WIDTH	LENGTH
PBS04	1/4" (6 mm)	2" (51 mm)	4" (102 mm)
PBS08	1/8" (3 mm)	2" (51 mm)	4" (102 mm)
PBS06	1/16" (2 mm)	2" (51 mm)	4" (102 mm)

Minimum order: 100 each. Must be ordered in increments of 100. Sizes can be combined for quantity pricing.

CRL Wood Shims

- 8" and 12" (203 and 305 mm) Lengths

SDS ONLINE
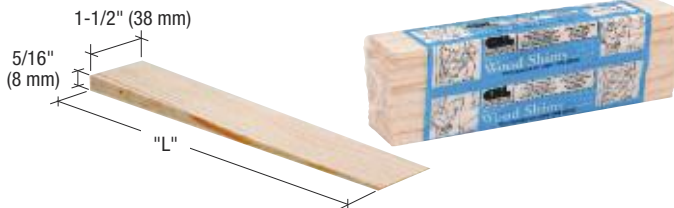
CRL Wood Shims can be used in so many ways: for leveling door and window frames, cabinets and large appliances; for stirring paints and stains; for spreading mastics and adhesives. They are handy to use, with no more mess of breaking or cutting shingles.

New BEDDAR WOOD® Shims snap off cleaner than pine or cedar. Taper is from 5/16" to 1/16" (8 to 2 mm).

CAT. NO.	TYPE	"L" LENGTH	SHIMS/CTN
NWS9	White Wood	8" (203 mm)	420 Shims
NWS9C	Cedar	8" (203 mm)	432 Shims
NWS12	BEDDAR WOOD®	12" (305 mm)	504 Shims
NWS12B	BEDDAR WOOD®	12" (305 mm)	42 Per Bundle

Minimum order: 1 bundle or carton. Can be combined with other Wood Shims for quantity pricing.

BEDDAR WOOD is a registered trademark of Airmark, Inc.

CRL Wood Composite Shims

- 35% Better Load Support and Snap Four Times Easier Than Traditional Wood

SDS ONLINE
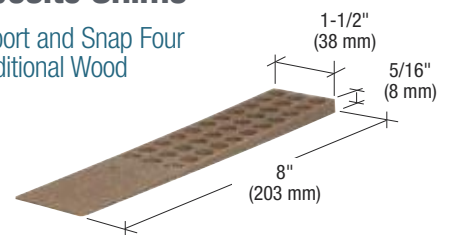
This CRL Wood Composite Shim is engineered to high performance standards with reduced material at natural break-points, resulting in less waste while providing great strength. Versatile Composite Shims can be used in so many ways: for leveling railing base shoes, door and window frames, cabinets and large appliances; for stirring paints and stains; for spreading mastics and adhesives. Environmentally friendly, they use no wood from the rain forests or from endangered tree species. Taper is from 5/16" to 1/16" (8 to 2 mm).

CAT. NO.	TYPE	SHIMS/CTN
NWCS8	Wood Composite	32
BWCS8	Bulk Wood Composite	288

Minimum order: 1 carton. Can be combined with all other Wood Shims for quantity pricing.

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559B

TOLL FREE Phone: (800) 421-6144 Fax: (800) 262-3299 From Anywhere in the U.S. or Canada

CRL US ALUMINUM

CRL Riv-Nuts Steel Insert Fasteners

- Use to Install Z-Clamps to Posts
- Blind Installation (Installs From One Side of Work) for Light to Medium Duty Fastening
- The Unique Method of Installing Load Threads in Virtually Any Material: Stainless Steel, Aluminum, Magnesium, Steel, Cast Iron, Plastics, Fiberglass, or Hardboard
- Reduces Inventory Because One Insert Works in Any Thickness Above .030" (.76 mm)
- Vibration Proof

Riv-Nut Steel Insert Fastener installed in Square Tubing

Riv-Nut Steel Insert Fastener Installation

Features:

- Wear resistant threads due to unique mechanical properties of installation
- No special skills are required – installation can be learned in minutes
- Ideal for high-speed production. Can be installed at rates up to 500 pieces per hour
- Steel Insert Fasteners self-tighten with repeated use
- Use in standard drilled or punched holes
- No deburring necessary
- Can be installed at any point of the assembly operation with portable tools
- Can be installed after painting or plating
- Metric and other sizes, aluminum, brass or stainless steel available on special order

Sleeve

Nut Portion

Riv-Nuts Insert Fasteners are a one-piece design consisting of a nut portion and a sleeve portion.

Break Area

A rotating tool mandrel exerts a pull and "breaks" the nut portion from the sleeve, drawing it into the sleeve.

The nut portion expands the sleeve, exerting a 360 degree swage fit against the parent material.

Drill Hole Size

"H"

"DH"

Minimum Hole Depth

Drill Hole Size

"H"

Chart below calls out Drill Hole Size

CRL Riv-Nuts Steel Insert Fasteners can be used in light and medium duty fastening applications. They can be installed into thinner materials with greater ease than can be accomplished with weld nuts, pierce nuts, clinch nuts, thread tapping, and thread forming screws. They are "non-grip sensitive", one Steel Insert Fastener part number per thread size accommodates any grip over .030" (.76 mm), eliminating the need for various grip ranges.

The unique feature of CRL Riv-Nuts Steel Insert Fasteners is the axial knurl under the flange of the insert. The expansion of the sleeve causes the knurl to bite into the parent material, providing greater torque resistance. Use CRL Riv-Nuts Steel Insert Fasteners to improve your product and speed up production. They're ideal for high-speed installations, as well as low volume applications using manual tools.

CAT. NO.	THREAD SIZE	QTY/BOX	"DH" MIN. HOLE DEPTH	"H" - MATCH METAL THICKNESS BELOW AND USE DRILL SIZE LISTED			
				.030-.090	.091-.124	.125-.186	.187-OVER
ATS2440	#4 (.112) – 40	100	.390" (10 mm)	3/16"	#10	#10	#9
ATS2632	#6 (.138) – 32	100	.390" (10 mm)	7/32"	#2	#1	#1
ATS2832	#8 (.164) – 32	100	.390" (10 mm)	1/4"	1/4"	17/64"	17/64"
ATS21032	#10 (.190) – 32	100	.390" (10 mm)	9/32"	19/64"	19/64"	19/64"
ATS2420	1/4" (.250) – 20	100	.535" (13.6 mm)	3/8"	3/8"	25/64"	25/64"
ATS2518	5/16" (.312) – 18	100	.635" (16.2 mm)	1/2"	1/2"	33/64"	33/64"

Minimum order: 100 each. Sizes can be combined for quantity pricing.

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TOLL Phone: (800) 421-6144
FREE Fax: (800) 262-3299
From Anywhere in the U.S. or Canada

CRL US ALUMINUM

CRL Riv-Nuts Master Assortment Kit

- A Complete Kit With Six Sizes
  of Steel Insert Fasteners,
  Deluxe Hi-Torquer Hand Tool,
  and Adapter Heads

Use the CRL Riv-Nuts Master Assortment Kit to install load bearing threads in virtually any material. It is ideal for production and maintenance repair applications.

The Kit contains: one AA112 A-T Series Deluxe Hi-Torquer Hand Tool, 50 each of six different sizes of Riv-Nuts Steel Insert Fasteners, and one Conversion Kit for each thread size with complete installation instructions.

All of this comes in a rugged polyethylene case ready for use under the harshest of conditions, in the field or in the plant.

See the CRL73R Master Catalog for our complete selection of quality tools

COMPLETE KIT INCLUDES: One AA112 Hi-Torquer Hand Tool.

50 each of these Riv-Nuts Steel Insert Fasteners:
ATS2440 #4-40
ATS2632 #6-32
ATS2832 #8-32
ATS21032 #10-32
ATS2420 1/4"-20
ATS2518 5/16"-18

One of each of these A-T Series Conversion Adapters:
AAT202440 #4-40
AAT202632 #6-32
AAT202832 #8-32
AAT2021032 #10-32
AAT202420 1/4"-20
AAT202518 5/16"-18

CAT. NO.	DESCRIPTION
AAT312A	Riv-Nuts Master Assortment Kit

Minimum order: 1 each.

CRL Riv-Nuts Deluxe Hi-Torquer Hand Tool

- Can Be Used to Set All Sizes of
  Riv-Nut Steel Insert Fasteners

The CRL Riv-Nuts Deluxe Hi-Torquer Hand Tool is used to set all sizes of Riv-Nuts Steel Insert Fasteners simply by using the appropriate Adapter to change from one thread size to another.

The Tool features a patented Quick Change thread size nose assembly. There is a recess to accept a 1/4" (6 mm) socket drive.
NOTE: Be sure to order an Adapter Kit (see below) for each Insert Fastener size you plan to use.

INSTALLATION:
- Thread insert fully onto mandrel.
- Place into hole.
- Hold grip bar while turning the "T" handle clockwise until insert is installed.
- Turn "T" handle counter-clockwise to remove from insert.

CAT. NO.	DESCRIPTION
AA112	Riv-Nuts Deluxe Head Tool

Minimum order: 1 each.

CRL Riv-Nuts Adapters for Hand Tool

- Order One for Each Steel Insert
  Fastener Size You Use

Use these CRL Riv-Nuts Adapters to set all sizes of Riv-Nuts Steel Insert Fasteners with the Cat. No. AA112 Riv-Nuts Deluxe Hand Tool. They feature quick and easy conversions from one thread size to another.

Hand Tool sold separately (see above)

CAT. NO.	FITS THREAD SIZE
AAT202440	#4-40
AAT202632	#6-32
AAT202832	#8-32
AAT2021032	#10-32
AAT202420	1/4"-20
AAT202518	5/16"-18

Minimum order: 1 each.

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TOLL Phone: (800) 421-6144
FREE Fax: (800) 262-3299
From Anywhere in the U.S. or Canada

CRL
US ALUMINUM

CRL Econ-O-Post Hole Form

- Creates Tapered Hole With Extra Space to Plumb Posts
- Sealed From the Bottom to Keep Out Concrete, Debris, and Water
- Lightweight and Sturdy
- Easy to Use

- Sizes for Large or Small Posts

CAT. NO. 3006
Small Form

CAT. NO. 4012
Large Form

- Easy to Install and Remove

Tab Marks Center of Econ-O-Post Hole Form for Field Measuring

Helical Groove to Allow Easy Removal of Form

Snap-on Base

Pull-Tab

Tapered hole allows you to plumb posts before adding the cement

Use the CRL Econ-O-Post Hole Form when setting concrete to allow posts to be set later. The Econ-O-Post Hole Form is sealed from the bottom to keep concrete, water, and debris from entering. The Econ-O-Post Hole Form's shape creates a tapered hole with extra space to plumb posts. Helical grooves allow the sleeve to be easily removed after the concrete is set, when you are ready to install the posts.

SPECIFICATIONS

| CAT. NO. | DIMENSIONS | | | | POST SIZE OF |
SIZE	T	H	B	C	RAILING OR FENCE
3006 Small	3" (76 mm)	6" (152 mm)	3-1/2" (89 mm)	4-3/4" (121 mm)	Up to 2-3/8" (60 mm) O.D. Pipe; Up to 2" (51 mm) Square Post
4012 Large	4" (102 mm)	12" (305 mm)	5" (127 mm)	7" (178 mm)	Up to 3-1/2" (89 mm) O.D. Pipe; Up to 2-1/2" (64 mm) Square Post

Minimum order: 1 each. Sizes can be combined for quantity pricing.

CRL Safety Guard Rail Base Systems

- Use Them With Your Own 2x4's to Create Temporary Guard Rails
- Cost Effective, Reusable, and Meets or Exceeds OSHA Requirements

These CRL Safety Guard Rail Base Systems are reusable bases for constructing freestanding temporary guard rail and stair rail systems that exceed OSHA standards. All you add are the fasteners and your own 2x4's. CRL Safety Guard Bases need no bracing, and anchor into most materials, including concrete. Two 2x4's are inserted into the center to form a strong, rigid post design. Toe boards need no fasteners, and drop directly into the channels on each Safety Guard Base. When permanent rails are ready to be installed, the Guards can be easily removed and reused in another location.

Safety Guard Bases are molded in one piece from a durable, high-impact, polymer, and have a one-year replacement guarantee. Minimum order is one each.

CAT. NO. SGR1

SPECIFICATIONS:
Base Dimensions:
5-5/8" x 8-5/8"
(143 x 219 mm)
Height: 5-1/8" (130 mm)
Weight: 3 Pounds (1.36 kg)
Color: Safety Orange
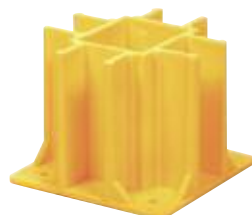
CAT. NO. SBG05

SPECIFICATIONS:
Base Dimensions:
7-1/2" (190 mm) Square
Height: 6" (152 mm)
Weight: 3 Pounds (1.36 kg)
Includes: Four Metal Washers
Color: Safety Yellow

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TOLL Phone: (800) 421-6144
FREE Fax: (800) 262-3299
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or enter the Catalog Number for complete product information

CRL US ALUMINUM

CRL Post Leveling Stand

- Quick Clamping Action Fits 1-1/2" Schedule 40 Pipe
- Rigid Steel Construction
- Folds Flat for Storage
- Simple Height and Plumb Adjustment

Perhaps one of the most time consuming portions of any post railing installation is the alignment of core mount posts. It takes countless hours of shimming, plumbing and adjusting, until now. The CRL Post Leveling Stand was originally designed for our CRS Railing System, but works with any 1-1/2" Schedule 40 core mounted post railing system.

Its quick clamping action allows you to easily adjust and set a post, and then move on to the next. The tripod legs of the CRL Post Leveling Stand have high ground clearance, allowing bottom horizontal rails to pass underneath without obstruction. The tripod legs also pivot for working in tight places and acute angle corners. The feet easily adjust up and down, taking the hassle out of the plumbing operation. They are also quickly convertible into an offset height configuration for use on stairs or curbs.

Rigid steel construction with corrosion resistant powder coated finish provides the strength and durability you require. It easily folds flat for storage, and can also be used as a stabilizer for flange mount post installations. Minimum order is one each.

CAT. NO. 1540PLS

CRL Folding Post Level

- For Posts, Pipes, and Signs
- Opens to Any Angle
- Positive Lock Every 15 Degrees
- Hands-Free Design for Vertical and Horizontal Readings
- Large, Easy-to-Read Bubble Vials

The CRL Folding Post Level is the ideal tool to use when installing CRL Architectural Posts and Railings, both round and rectangular, or any other similar job that requires a plumb or level installation. This tool is "hands-free", and checks vertical or horizontal on both planes simultaneously. Sturdy high-impact molded plastic body with three large bubble vials. Minimum order is one each.

CAT. NO. 34008

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TOLL Phone: (800) 421-6144
FREE Fax: (800) 262-3299
From Anywhere in the U.S. or Canada

CRL Professional Brushed Stainless Steel Restoration Kit

VIDEO ▶

NO AIR FREIGHT 🚫✈

SDS ONLINE ➕

- Removes Scuffs, Fine Scratches, Light and Deep Scratches
- Removes Oxidation and Black, Blue, Gold Colors From Heat Scorching / Welding

CRL's Restoration Kit provides a complete solution to common problems associated with brushed stainless steel surfaces, including scratches and gouges, rust, heat scorching, and chemical stains.

The SBG1 Basic Professional Kit contains coarse burgundy pads for deep scratches, brown pads for reconditioning, and gray pads for removing light scratches, rust, and chemical stains. The Ultra Shine™ Cutting Lubricant and Surface Oxidant used with the pads lifts particulates created during the re-graining process. Its proprietary formula speeds the return of the "warm look" by chemically oxidizing the "new" restored surface to quickly blend and match surrounding areas.

For new stainless steel installations and for surfaces restored with the CRL Restoration Kit, we recommend Cat. No. ARM32 CRL EZ Armor Acrylic Surface Protector. It offers protection for aluminum, stainless steel, brass, and copper against harsh chemicals and acids, rust stains, salt spray, pitting, weathering, and corrosion.

CAT. NO. ARM32
EZ Armor Acrylic
Surface Protector
32 Fl. Oz. (946 ml)

CAT. NO. US2
Ultra Shine 2 Fl. Oz. (59 ml) Bottle
CAT. NO. US8
Ultra Shine 8 Fl. Oz. (237 ml) Bottle

CAT. NO. SBG1
Basic Kit

CAT. NO.	DESCRIPTION
SBG1	CRL Basic Professional Restoration Kit
US2	CRL Ultra Shine™ 2 Fl. Oz. (59 ml) Bottle
US8	CRL Ultra Shine™ 8 Fl. Oz. (237 ml) Bottle
ARM32	CRL EZ Armor Acrylic Surface Protector 32 Fl. Oz. (946 ml) Can

Minimum order: 1 each.

Rust and Discoloration Repair

Aggressive Nick Repair

Blending Overall Finish

CRL Stainless Steel Anti-Microbial Kit

SDS ONLINE ➕

- Easy as Step 1, Step 2, and Step 3   • Stain Protective Technology

The CRL Stainless Steel Anti-Microbial Kit cleans, polishes, seals, protects and maintains stainless steel and finished metal surfaces. Keeps surfaces clean, hygienic, and brilliant with no harsh chemicals. New "Micron" Anti-Microbial technology inhibits the growth of pathogens, while preventing mold, mildew, corrosion, oxidation, and water staining.

Step 1 DSR8 Polish and Sealer is used on brushed stainless steel and mill aluminum.
Step 2 DS2P8 Anti-Microbial Hydrophobic Protective Treatment is used on stainless steel, mill aluminum, polished brass, satin brass, satin anodized, dark bronze anodized, powder coated, and chrome surfaces.
Step 3 DSWR8 or DSWR16 Shine is used on the same surfaces as Step 2.

CAT. NO.	DESCRIPTION	CONTENTS
DSK1T	Anti-Microbial Kit	DSR8, DS2P8, DSWR8, 3M® Scotch-Brite® Pad
		Micro Fiber Cloths (2), Micro Fiber Applicator Pad (1)
DSR8	Polish and Sealer	8 Fl. Oz. (237 ml)
DS2P8	Anti-Microbial Hydrophobic Protective Treatment	8 Fl. Oz. (237 ml)
DSWR8	Shine	8 Fl. Oz. (237 ml)
DSWR16	Shine	16 Fl. Oz. (474 ml)

Minimum order: 1 each.

3M and Scotch-Brite are registered trademarks of 3M Company.

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TOLL Phone: (800) 421-6144
FREE Fax: (800) 262-3299
From Anywhere in the U.S. or Canada

CRL
US ALUMINUM

CRL Cleaning and Polishing Products Give Your Railing Projects a Perfect Finishing Touch

Give your railing projects a perfect finishing touch with CRL's complete assortment of quality cleaning and polishing agents for glass, aluminum, and stainless steel. These easy to apply, hard-working products are formulated to give you bright, squeaky-clean surfaces.

Our glass cleaners have been the standard of the glass industry for decades. Hard water spots and stains can dull the finish of glass and metal surfaces, but with our water spot removers you can make them look like new again. We also offer cleaners and degreasers to polish and protect metal surfaces.

Doing a good cleaning job is always easier with the right tools. Our professional strength wipes clean surfaces without streaking, and absorb moisture faster than traditional paper towels. Our squeegees, scrapers, blades and other maintenance tools are online at **crlaurence.com/cleaners**.

SDS ONLINE

- Aerosol and Concentrate Glass Cleaners

- Stain and Water Spot Removers

- Surface Protection

- Metal Cleaners, Degreasers, and Polishes

- Professional Quality Wipes

- Stainless Steel Surface Cleaner and Protection

- Cleaning Tools

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TOLL Phone: (800) 421-6144
FREE Fax: (800) 262-3299
From Anywhere in the U.S. or Canada

CRL US ALUMINUM

CRL Decorative Posters

- Show Your Customers Beautiful Railings and Windscreens Created With CRL Hardware and a Little Imagination
- Large 24" Wide x 36" High (610 x 914 mm) Studio Quality Posters Can Be Displayed Anywhere in Their Protective Clear Sleeves
- Visit **crlaurence.com/posters** to See All Decorative Posters Available – New Posters Added Regularly

CRL US ALUMINUM
MANUFACTURED IN THE USA

CAT. NO. FP53
P-Series Post Railing System

CRL's Decorative Posters will make a quick and dramatic change to your showroom. They feature studio quality images of finished railings and windscreen projects. Display them in your showroom to inspire creativity by your customers and designers for future projects. Each Poster comes in a protective, easy-to-hang clear plastic sleeve, and measures approximately 24" (610 mm) wide x 36" (914 mm) high.

To view larger images and new additions of our Decorative Posters, please visit **crlaurence.com/posters**. Posters using your own images can also be created on special order. Contact Railing Technical Sales for more information. Minimum order is one each.

CAT. NO. FP06
ARS/HRS Railing Systems

CAT. NO. FP07
ARS/HRS Railing Systems

CAT. NO. FP08
HRS Railing Systems

CAT. NO. FP09
Railing Systems

CAT. NO. FP10
Windscreen Systems

CAT. NO. FP11
Windscreen Systems

CAT. NO. FP12
Railings and Windscreens

CAT. NO. FP13
Railings and Windscreens

CAT. NO. FP14
Guard Rails

CAT. NO. FP34
EGR Railing Systems

CAT. NO. FP33
HRS Railing Systems

CAT. NO. FP35
HRS Railing Systems

CAT. NO. FP38
HRS Railing Systems

CAT. NO. FP36
ARS Railing Systems
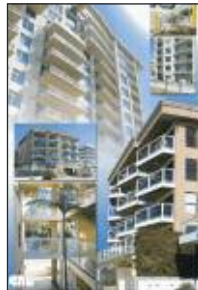
CAT. NO. FP39
ARS Railing Systems

CAT. NO. FP54
P-Series Post Railing Systems

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CRL US ALUMINUM

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CRL-U.S. Aluminum Series 487 OfficeFront® Partition System

- New Double Glazed Pocket System for the Ultimate in Acoustical Privacy
- Center or Offset Glazed, and Designed to Wrap 4-7/8" (124 mm) Walls
- Accepts 1/4", 3/8", 1/2", and 9/16" (6, 10, 12, and 14 mm) Glazing
- Screw Spline or Clip Joinery Available
- 1", 1-1/2", and 2" (25, 38, and 51 mm) Face Trim
- Glass, Aluminum, or Wood Doors Available
- Integrated Sliding Aluminum, Wood, or Glass Doors Available
- Several Stock Finishes Available, With Custom Finishes on Request
- "Positive Pressure" Rated Frames Available for Use With Labeled Wood Doors
- Stock Lengths Available for On Site Fixed Panel Fabrication
- Fully Fabricated Frames Available for Fast and Easy Installation
- All Door Frames Factory Fabricated
- Contributes to LEED® Certification Ratings

U.S. ALUMINUM™ INTERIOR PRODUCTS

ONLINE *ARCHITECTURAL RESOURCES*

Our Series 487 OfficeFront® Partition Frames for sidelites, doors, clerestory lites, borrowed lites, or continuous glass walls are a great way to divide interior office space and provide acoustical privacy, all while allowing desirable light to enter the indoor spaces and qualify for LEED® (Leadership in Energy and Environment Design) Green Building Rating System™ credit.

CRL-U.S. Aluminum offers a growing variety of OfficeFront® Partitions and hardware to make state-of-the-art interior office systems available to the glazing industry. Our commitment to our customers is to carry sufficient inventories of popular stock items, and provide short lead times for special orders. It is a total program that will allow your entry into the Interior Office Front Systems market.

For additional information, visit us online at **crlaurence.com/office-partitions** or contact Technical Sales at (800) 421-6144 in the U.S., (877) 421-6144 from Canada, or (323) 588-1281 International. Ask for Ext. 7770. You can also email us at **partitions@crlaurence.com**.

CRL GREEN PRODUCT®

OFFICE PARTITIONS online by CRL

USE MONOLITHIC TEMPERED GLASS

LEED is a registered trademark of U.S. Green Building Council.

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TOLL Phone: (800) 421-6144
FREE Fax: (800) 262-3299
From Anywhere in the U.S. or Canada

CRL U.S. ALUMINUM

CRL-U.S. Aluminum Storefront Systems

- Modern Systems   • Supplies   • Technical Service

CRL-U.S. Aluminum has designed and engineered a number of proven and attractive storefront systems with long-lasting quality, reliability, and durability. Whatever the climate and environment, our storefront systems are known performers that deliver value on a daily basis. There's no need to compromise on selection or price, because our Technical Specialists are trained to serve your needs, from design to delivery, and every step in between.

Our years of experience in the field have given us the confidence to promote your entry into the sale and installation of attractive and quality-built storefronts. Every community has businesses large and small that depend upon welcoming and reliable storefronts to attract customers. As time passes these storefronts can become worn or dated, in need of repair or outright replacement. You can be your community's source for storefront repairs and replacement.

For additional information, contact U.S. Aluminum Technical Sales at (800) 262-5151 in the U.S. and Canada, or (323) 268-4230 International. Ask for Ext. 5305. You can e-mail us at **usalum@crlaurence.com**.
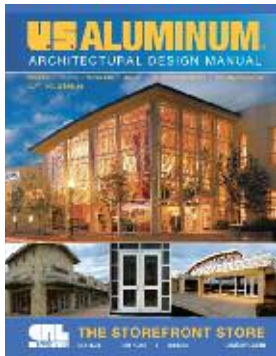
Complete specifications, detailed assembly drawings, windload and deadload charts, can be found in our USAL14 U.S. Aluminum Architectural Design Manual, available for viewing, download or order from the Catalog Library at **crlaurence.com/catalogs**.

KD Storefront Fabrication Service

You Provide the Details and We'll Do the Rest. Let Us Fabricate for You!

Take the guesswork out of quoting your fabrication labor, reduce costly fabrication errors, and, most importantly, save time. Our KD Storefront Fabrication Service provides installation-ready materials and hardware bundled by elevation. Glass sizes and step-by-step installation instructions are included. Our unique combination of quality, inventory, expertise, and turnkey services gives you maximum flexibility and profitability. See **crlaurence.com/fabrication**.

Advantages of U.S. Aluminum Fully Fabricated Storefronts:

PROJECT EFFICIENCY
- Complete Turnkey, KD Solution Available for Local Pick Up Includes all hardware, gaskets and accessories required for the complete assembly. Materials can be added or removed as required.
- Fast Turnarounds and Rapid Customization
- Materials Bundled by Elevation for Easy Job Site Handling

QUALITY ASSURANCE
- Precise Fabrication Via State-of-the-Art CNC Equipment
- Heavy Wall Packaging with Wood Blocking for Protected Handling of Materials to the Job Site

PEACE OF MIND
- Minimizes Cost and Liability Resulting From Fabrication Errors
- Simply Send Us Your Details and We Can Do the Rest

SINGLE SOURCE ACCOUNTABILITY
We supply the materials, fabricate the extrusions, provide glass sizes, and offer the largest selection of door hardware, installation tools, and supplies to get the job done right.

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storefront-systems   Search   **568B**
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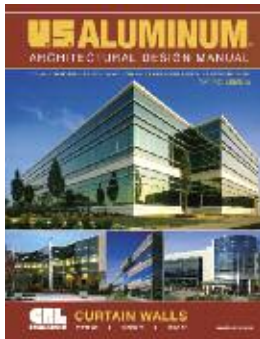
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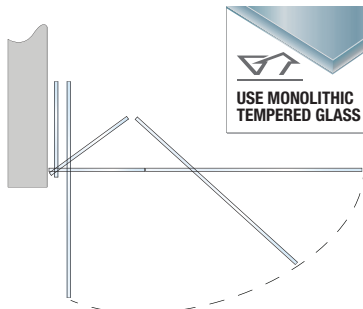
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**Architectural Frameless
Glass Railing Systems**
PAGES 109B – 276B

2

**Architectural Post
Railing Systems**
PAGES 277B – 348B

3

Hand Rails
PAGES 349B – 396B

4

**Aluminum
Railing Systems**
PAGES 397B – 460B

5

Windscreen Systems
PAGES 461B – 500B

6

Gate Systems
PAGES 501B – 548B

7

Railing Tools
PAGES 549B – 566B

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