ARCHITECTURAL RAILING SYSTEMS

Innovative Architectural Systems Designed and Engineered by C.R. Laurence Company

HR11 CATALOG

05 52 00 METAL RAILINGS
05 70 00 ARCHITECTURAL AND ORNAMENTAL RAILINGS
05 73 00 HAND RAILS & RAILINGS

- Glass Railing/Balustrades
- TAPER-LOC™ Railing Systems
- Cap Railing Systems
- Gate Systems
- Post Railing Systems
- Welded Railing Systems
- Hand Railing Systems
- Aluminum Railing Systems
- Glass Walls/Windscreens
- Tools/Accessories

CRL® C.R. LAURENCE COMPANY
crlaurence.com

CityCenter, Las Vegas

A Letter From The President

C.R. Laurence Company continues to offer the glazing industry innovative, high quality products as it has for over 40 years, but with an expanding emphasis on Architectural Hardware and services. From our state-of-the-art 270,000 square foot ISO 9001 Certified manufacturing facility in Los Angeles, California to our 25 distribution locations throughout the United States, Canada, Australia, and Europe, our goal is to provide products of the highest quality and value, and to maintain our leadership position in the glazing industry.

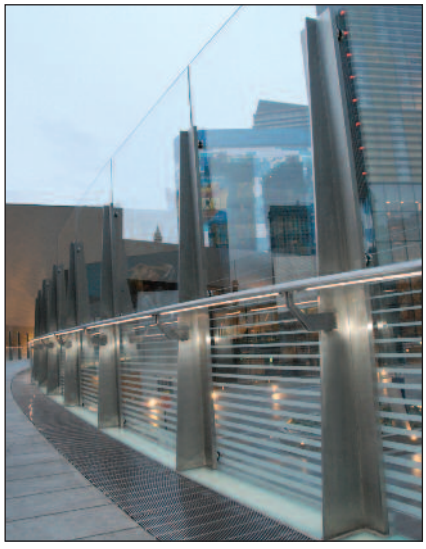
In this catalog you will find an extensive selection of architectural systems and related hardware for the construction of beautiful, code compliant railings and balustrades, including our very popular Aluminum Railing Systems, and our impressive line of Windscreens. We've expanded our complete line of Glass Railing Hardware, from Base Shoes to Cap Rails, simplifying your hardware selection process for balustrades, hand rails, and guard rails. We have also included our newest product lines, the CRL Stainless Steel Post Railing Kits, Wood Cap Rails and Hand Rails, as well as our rapidly growing line of Swinging Gates.

CRL supports our extensive product lines with a Technical Sales Department available from 6:00 a.m. to 5:00 p.m. Pacific Time, Monday through Friday, and 7:00 a.m. to 12:00 p.m. on Saturday. For additional information, contact CRL Technical Sales at (800) 421-6144 in the United States, (877) 421-6144 from Canada, or (323) 588-1281 from outside the United States and Canada, and ask for Ext. 7730. We also invite you to visit the CRL web site at **crlaurence.com** to see the over 50,000 products in our Online Catalog.

Lloyd W. Talbert
President and C.O.O.

GRS Glass Railing System

ARS Aluminum Railing System



CityCenter, Las Vegas, NV

WRS Welded Post Railing System

For design ideas and sales presentations to your customers, please visit our Installation Image Gallery at **crlaurence.com** for beautiful, full color photographs of projects using CRL Architectural Hardware. From the Home Page, go to Products & Services, then click on Product Finish/Gallery, then Installation Image Gallery. It's that easy!

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at the Phone Numbers Shown on the Back Cover

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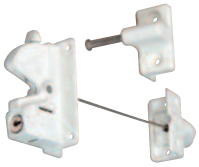

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CRL Technical Assistance

- **Full Service From Our Railing Technical Sales Team**
- **Design Assistance and Component Selection**
- **Detailed Project Quotes**

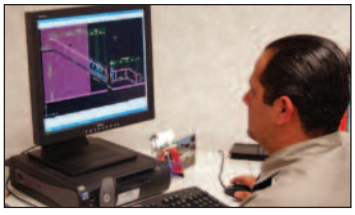
The C.R. Laurence Railing Technical Sales Team can help you choose the perfect railing system for any job. They can prepare a detailed quote that you can present to your client with the full assurance that the CRL Railing System they select will enhance the beauty and safety of the surroundings. They will also assist with component selection to ensure you can complete the job with a minimum amount of excess material. Your job can be made easier with the help of our trained professionals. CRL Railing Technical Sales can be reached Monday through Friday from 6 a.m. to 5 p.m. Pacific Time.

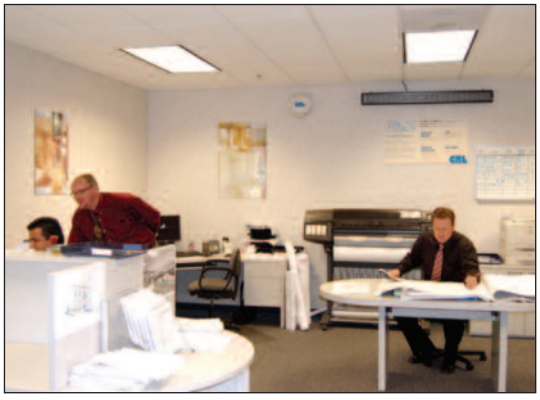
Call (800) 421-6144 in the United States, (877) 421-6144 from Canada, or (323) 588-1281 International.
Ask for Railing Technical Sales at Ext. 7730.
Direct Fax (800) 587-7501 or (323) 584-5289
Direct E-Mail railings@crlaurence.com

To view or place an order for any CRL product visit our Online Catalog at crlaurence.com

Let CRL Design and Engineer Your Next Railing Project

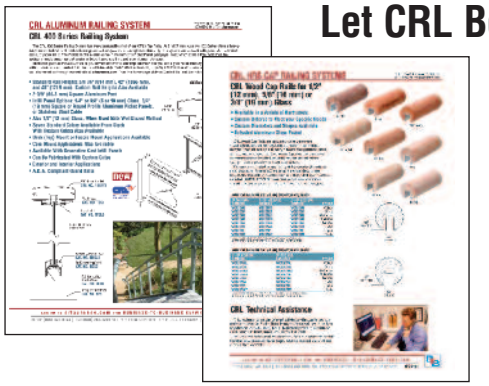
- **Design and Development of Custom Products**
- **Product Management Service**
- **Auto Cad Drawings**
- **Shop Drawings**
- **Engineering**
- **Technical Support**





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.

Drawings and Specifications-How to Get Them



Let CRL Be a Team Player on All Your Railing Hardware Projects!

The C.R. Laurence web site is designed for easy access to product information and drawings alike! Simply click on "Architectural Customers" on the **crlaurence.com** home page and you will find products listed by CSI section for easy reference. Each product will have links for technical drawings and written product specifications, which can be easily downloaded into your own working documents.

Never before have product submittals to architects and general contractors been so easy. CRL wants you to succeed, and by teaming together your projects will run smoothly, on time, and within budget!

CRL Rapid Customization Service

- **Don't Hesitate to Say "Yes" When Your Customer Needs Something Special**
- **With CRL's Rapid Customization You Can Win That Bid for the Next Big Railing Project**
- **When Quick Delivery Could Make the Difference Between Winning and Losing a Big Railing Job, CRL Will Out-Perform Other Railing Suppliers**

The difference between winning and losing a bid for any railing project can often mean more than just the price. It's often a matter of being able to give your customer something special or out of the ordinary. Sometimes it's a matter of the quickest delivery, or delivery across borders, regardless of the price.

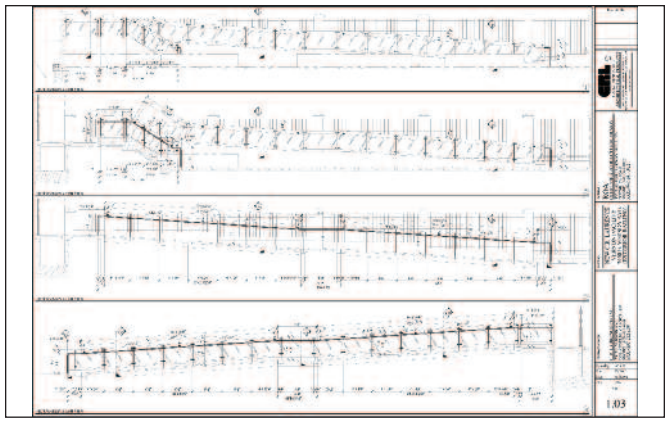
CRL doesn't want you ever to have to say "No" to a railing job. We can work with you to meet deadlines, or to supply that something special that others can't deliver. We have the capability to meet your requirements so you can say "Yes" to any and all railing jobs that you have the opportunity to bid on.

You need not be hesitant to get in a 'last minute' bid on a railing job. Fabricating our own systems enables us to respond to custom designs and special conditions and, at the same time, meet your needs for the shortest reasonable lead times. We're experts at making on-time deliveries, whether across town or across oceans.

Our Railing Technical Sales Staff can provide you with design and installation assistance. We've gained valuable experience that we're always happy to share with installers.

CRL Railing Technical Sales can be reached at (800) 421-6144 in the U.S., (877) 421-6144 from Canada, or (323) 588-1281 from outside the U.S. or Canada. You can also contact us through our web site, **crlaurence.com**. Click on Contact Us, and then click on Technical Sales for Railing Products.

So contact CRL whenever you have a chance to land that next big railing project. We'll work with you for a successful outcome.



You Send Us Your Plans and We Design the Perfect Railing

Once We Receive Your Order We Go to Work on it Right Away

Upon Completion We Ship it to Your Job Site Anywhere in the World

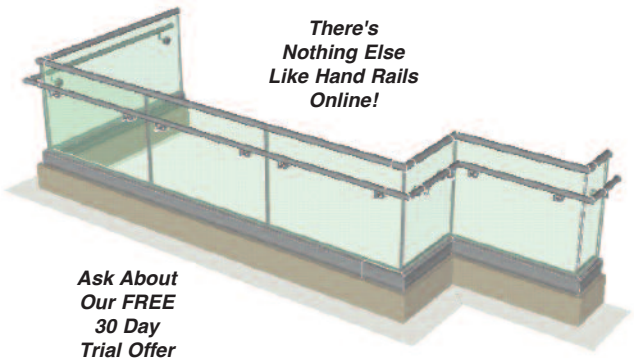
CityCenter, Las Vegas

The Result is a Railing System You Can Be Proud to Install

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 Lengths Ordering Methods
- Six Easy Steps to Design a Railing System
- Generates Accurate Quote in Minutes



There's Nothing Else Like Hand Rails Online!

Ask About Our FREE 30 Day Trial Offer

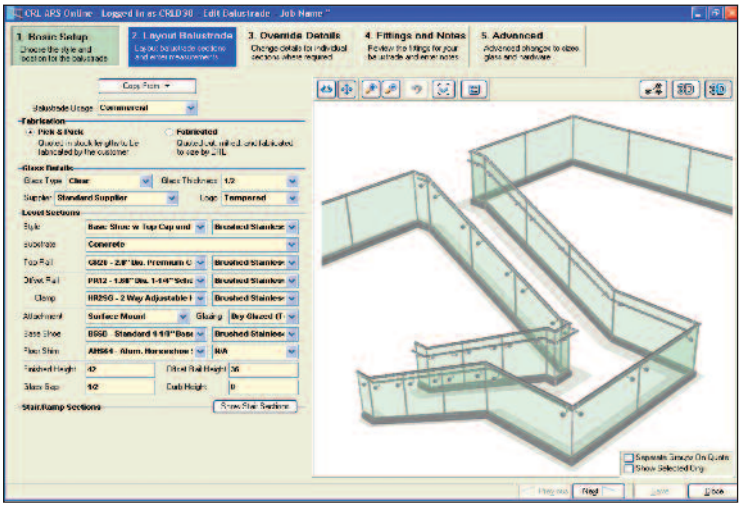
HAND RAILS online by CRL | STOREFRONTS online by CRL | Showers online by CRL

Hand Rails Online is the Newest Addition to Our Family of Online Services, Including 'All-Glass' Storefronts Online® and Showers Online

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.

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, 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 **crlaurence.com**. From the home page click on Contact Us, and then click on Technical Sales for Railing Products.



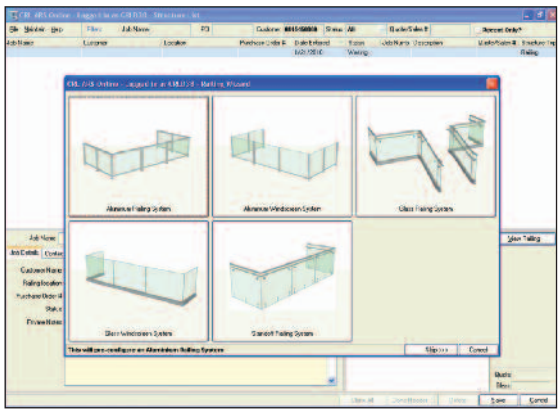
Creating your railing project has never been easier

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

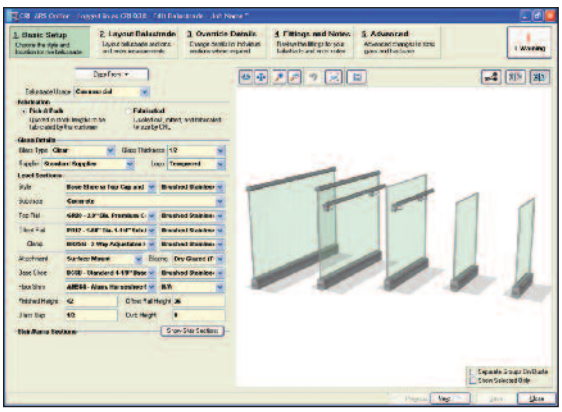
CRL Hand Rails Online

Step-by-Step Screen Sequence from the Design Stage to a Complete Railing Layout With a Listing of All Required Hardware

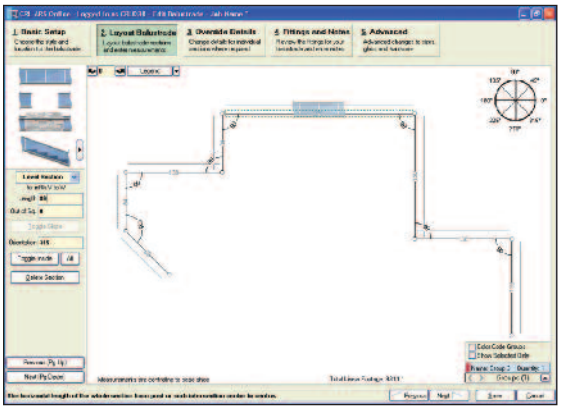
Step 1: Enter Your Customer Information and Select Railing Type



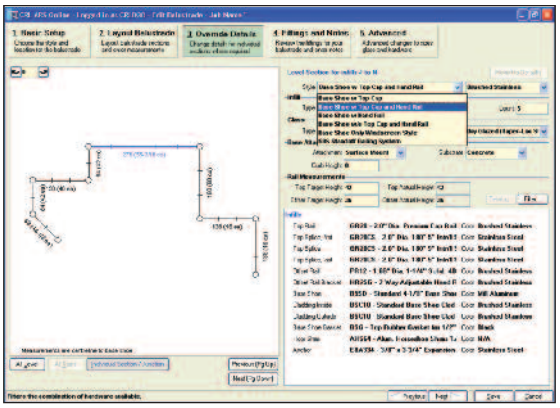
Step 2: Enter Installation Questions



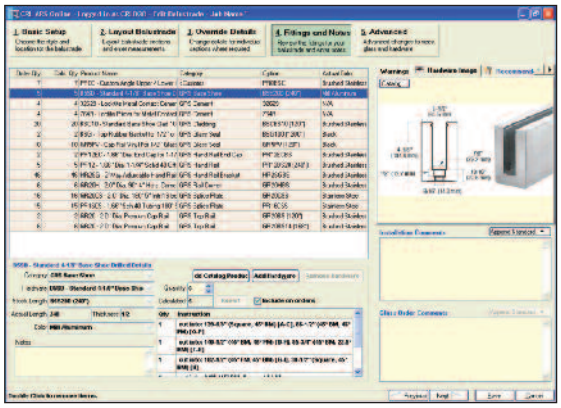
Step 3: Lay Out and Design Railing With Measurements



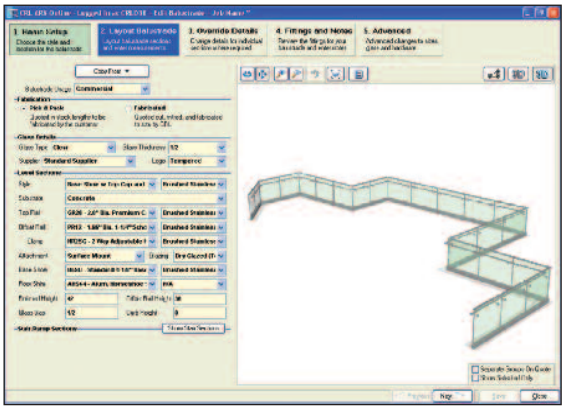
Step 4: Modify and Edit Properties



Step 5: Review Hardware Required and Enter Notes



Step 6: Complete and Ready to Use



- Ask CRL Technical Sales About Our FREE 30 Day Trial Offer on Any of Our Online Programs

We Say "Yes" to Custom Fabrication

Although C.R. Laurence Company carries well over 50,000 products, we are aware that stock materials may not be the answer for every project. We like saying "yes" to our customers. Feel free to ask for custom made materials you need to complete your job. Our 270,000 square foot manufacturing facility in Los Angeles, California allows us to engineer and design custom products. Allow us to say our favorite word, "YES", by asking for a quote on any custom made product you require.

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.

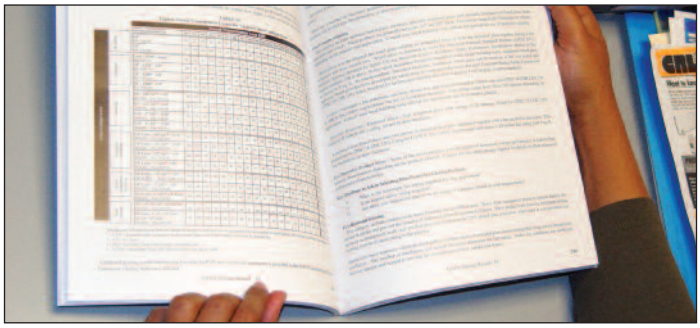
Common Railing Terminology

Glass Baluster – A vertical panel of glass that structurally supports a hand rail or guard rail.
Glass Balustrade – A series of glass balusters that support a hand rail or guard rail.
Guard Rail – A vertical barrier erected along the open edges of a floor opening, wall opening, ramp platform, balcony, runway or other elevated area to prevent persons from falling off the edge.
Hand Rail – A narrow rail mounted parallel to a stair or landing that is used for grasping with the hand for support; also commonly called a grab rail. See our Glossary of Common Railing Terms on page B107.

Americans with Disabilities Act (A.D.A.)

The Americans with Disabilities Act (A.D.A.), enacted in 1990 by the U.S. Congress, requires that all new and certain existing locations of public accommodation and commercial facilities be designed and constructed to be accessible to, and usable by, the disabled. CRL recommends that the following documents be used as reference materials when checking for compliance with A.D.A. requirements: Americans with Disabilities Act Accessibility Guidelines; ADAAG Manual – A Guide to the Americans with Disabilities Act Accessibility Guidelines; ICC/ANSI A117. 1-98 Accessible and Usable Buildings and Facilities.

Structural Strength and Testing Data



For the sake of safety, load requirements for Hand Rails and Guard Rails have increased throughout the years. It is not the responsibility of CRL to ascertain the suitability of the system of choice. While CRL systems are developed to meet industry standards and safety code requirements, you should consult with a licensed engineer to determine if the product being used is of appropriate structural strength for your application. Copies of CRL engineering test reports are available on our web site at **crlaurence.com**.

Glossary of Common Railing Terms

A.D.A. - Americans with Disabilities Act, enacted in 1990 by the U.S. Congress, requires that all the new and certain existing locations of public accommodation and commercial facilities be designed and constructed to be accessible to, and usable by, the disabled.

Bump Formed - The process of taking a flat sheet of metal and bending it using a brake press with one or several sets of dies to the desired shape.

Cap Rail - Top member of a glass railing system; may also be considered as hand rail in stair applications, providing other code requirements are met.

Cap Rail Vinyl - A rigid "U" shaped vinyl extrusion used to protect the edge of the tempered glass panels in a typical heavy glass railing system.

CMU Wall - Block wall typically constructed of cinder blocks, steel re-bar, and cement.

Compound Angle - A joining of two angles in two different planes commonly occurring on stairways.

Core Mount - Mounting option for vertical posts or stanchions that requires a large diameter hole drilled into solid concrete to allow the stanchion or post to be set in place with expanding cement. This method can also be achieved by using cylindrical forms during the initial pouring process of the concrete slab or footing. These are later removed, leaving a void for the installation of the stanchion or post.

Dry Glaze - A method of setting glass using taper sets in place of expansion cement, or using vinyl gasket material in place of silicone.

Embed - Setting support members in concrete to a specified depth.

Fascia Mount - Mounting option of vertical supports to the face, or side, of a wood deck, concrete slab or stair stringer.

Glass Baluster - A vertical panel of glass that structurally supports a hand rail or guard rail.

Glass Balustrade - A series of glass balusters that support a hand rail or guard rail.

Guard Rail - A barrier erected along the open edges of a floor opening, wall opening, ramp platform, runway, balcony, or other elevated area to guard against falling off the edge.

Hand Rail - A narrow rail mounted parallel to a stair or landing that is used for grasping with the hand for support; also commonly called a grab rail.

Infill Panel - A non-structural cable, glass or picket panel that is supported within a railing system.

Model Code - Code used for testing purposes of railing systems, comprised of the most uniformly recognized aspects of the many codes that are currently being followed.

Picket - A narrow vertical member used in series closely spaced between posts of a railing system.

Plumb - To set perfectly vertical posts in a railing.

Post - A vertical structural member that supports a top rail, hand rail, and/or infill panel.

Powder Paint - Very fine dry particles of resin with the pigment color of choice. The resin powder is applied with an electrostatic spray gun and resin powder. When the resin powder is sprayed it sticks to the grounded parts, attracting the resin like a magnet. The charged powder adhered to the metal is then baked at 400°F (204°C) in a special industrial oven. The melted resin fuses to the metal providing a uniform and durable finish.

Roll Formed - The process of taking a flat sheet of metal, feeding it between successive pairs of rollers, which progressively shape it to the desired form.

Smoke Baffle - A barrier hanging from the ceiling that partitions larger areas of a ceiling into smaller, more manageable areas that can be monitored by smoke detectors.

Stabilizing End Cap - An end cap designed to attach cap rails to a vertical structural member, adding rigidity to the overall railing system. Not intended to replace the tempered glass balusters that support the cap rail.

Stanchion - An internal vertical member that structurally supports a vertical post in a railing or windscreen system.

Stringer - The supporting member for stair treads, running the length of a stairway, in which treads, risers, and balustrades are mounted.

Surface Mount - Mounting option that requires drilling into substrate, and then anchoring the mounting flange of a stanchion or post to the surface of the substrate.

TAPER-LOC™ - A patent pending dry glazed glass railing system which mechanically locks the glass panels into the base shoe.

Wet Glaze - A method of setting glass that requires pouring expansion cement or applying structural silicone.

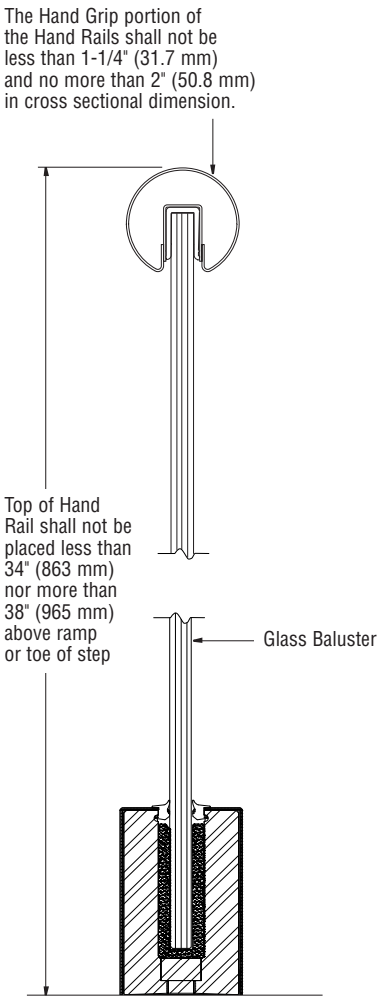
Windscreen - A dividing structure that protects from wind loads or divides areas for privacy.

CRL Balustrades, Hand Rails, and Guard Rails

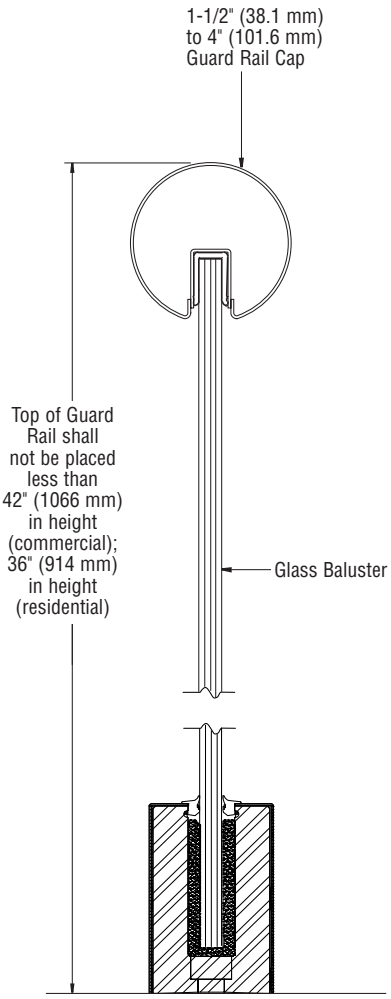
Not all CRL Glass Rail Systems and materials are suitable for each project specification and safety requirement. Since most building codes make clear the difference between Hand Rails and Guard Rails, you should consult the local code. Normally Hand Rails are noted as used for guidance and support, while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

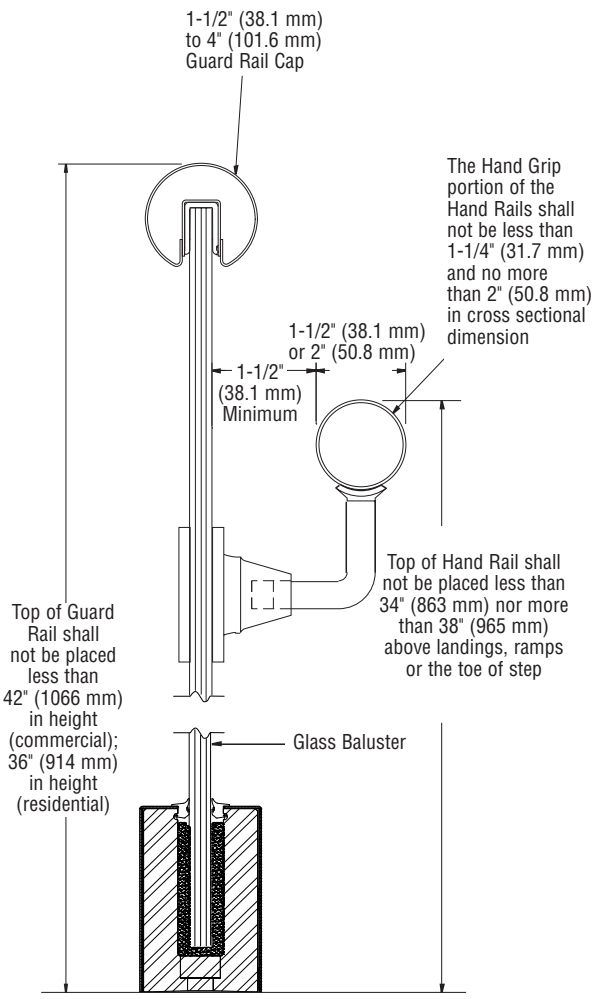
Hand Rail Balustrade



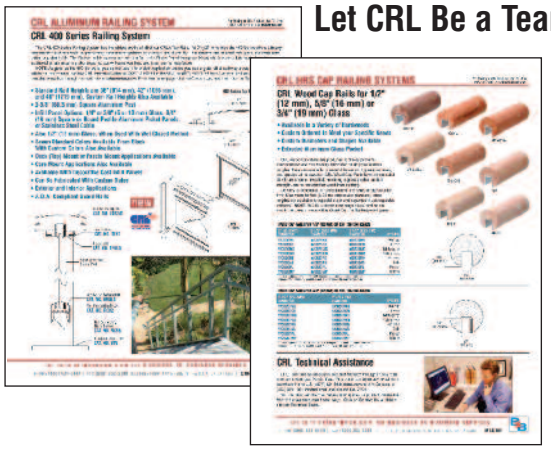
Guard Rail Balustrade



Hand Rail/Guard Rail



Drawings and Specifications - How to Get Them



Let CRL Be a Team Player on All Your Railing Hardware Projects!

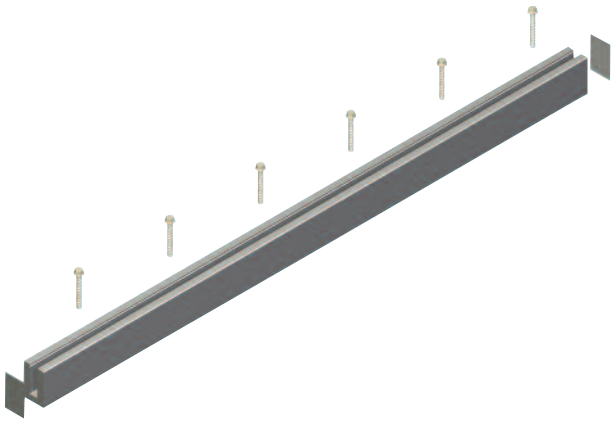
Our web site is designed for easy access to product information and drawings alike. From the **crlaurence.com** home page click on Architectural Railing Systems or search for a specific product using our user-friendly search engine. Each product will have links for technical drawings, written product specifications, glass fabrication templates, and engineering, which can be downloaded into your own working documents.

Never before have product submittals to architects and general contractors been so easy. CRL wants you to succeed, and by teaming together we feel projects will run smooth, on time, and within budget!

Basic Installation Instructions

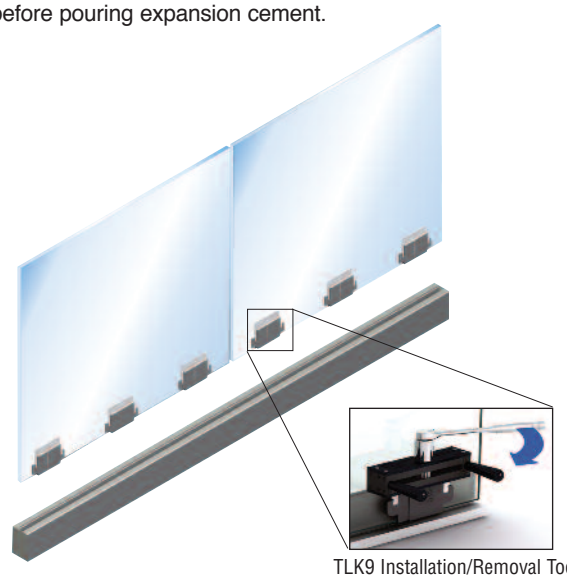
1. Glass Railing Base Shoe Installation

Layout 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 railing 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 TLK9 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 expansion cement.



TLK9 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.

A Tale of Two Systems…

A Choice of CRL's GRS Glass Rail Systems

C.R. Laurence's entry into the Glass Railing Market is typical of the approach used in other heavy glass product lines we have carried, 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 is our view of the future. Shown below are a few of the key points to the Dry Glaze System. The complete story can be read on pages B111 to B124.

For those who prefer to use, or are familiar with, the Wet Glaze System of pouring cement to mount heavy glass into Base Shoe, we offer that as well, with some new and improved features. The complete story for the Wet Glaze System can be read on pages B125 to B131.

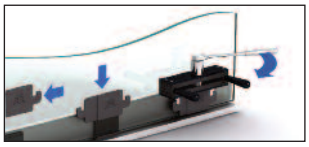
TAPER-LOC™ Dry Glaze System

TAPER-LOC™
DRY GLAZE RAILING SYSTEM
crlaurence.com
Patent Pending

- **Taper Designs to Meet All Commercial and Residential Applications Using Monolithic Tempered Glass and Laminated Glass in 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**
- **TAPER-LOC™ Meets and Exceeds Code Standards, and is Miami-Dade County Certified and IBC Compliant**
- **Engineering and Testing Reports Available at crlaurence.com**

Tapers for Monolithic Tempered Glass

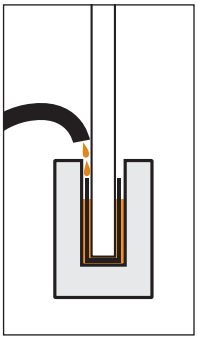
Tapers for Laminated Tempered Glass



See complete details of our GRS TAPER-LOC™ Dry Glaze System on pages B111 to B124.

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 complete details of our GRS Wet Glaze System on pages B125 to B131.

The CRL TAPER-LOC™ Dry Glaze System

TAPER-LOC™
DRY GLAZE RAILING SYSTEM
crlaurence.com
Patent Pending

• Now Featuring TAPER-LOC™ 'X' (See Page B118)

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. Then the glass would 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.

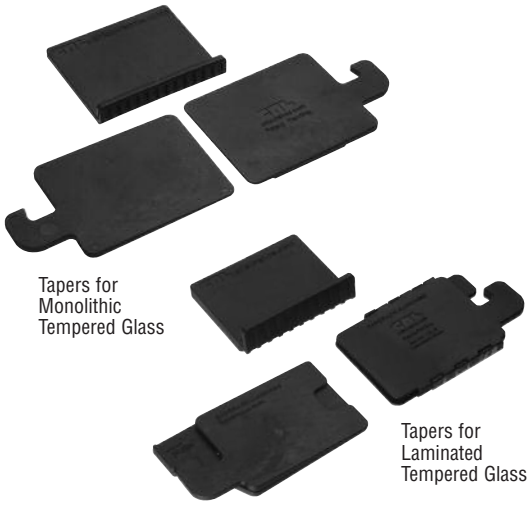
Once again, more wedges would be carefully inserted to maintain the glass in it's vertical position, but this time they would be smaller so that when they were removed there would be less 'spot' touch-up work to be done after the final pour was completed.

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.

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, then positioning the glass into the Base Shoe and simply 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.



Tapers for Monolithic Tempered Glass

Tapers for Laminated Tempered Glass

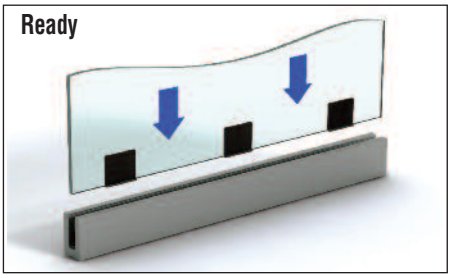
The CRL TAPER-LOC™ Dry Glaze System

Using the CRL TAPER-LOC™ Dry Glaze System will easily cut your installation labor time by 50%, and by an even greater percentage on sloped 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™
DRY GLAZE RAILING SYSTEM
crlaurence.com

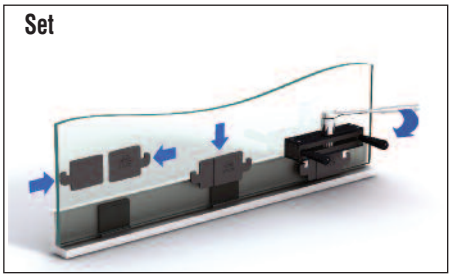
(U.S. and Foreign Patents Pending)

Ready



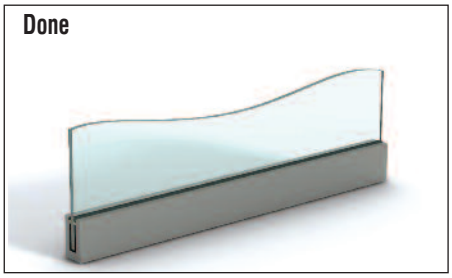
Adhere TAPER-LOC™ L-Pressure Blocks to the bottom edge of the glass and lower it into position.

Set



Install TAPER-LOC™ Tapers with the TLK9 Tool to lock the glass securely in place.

Done

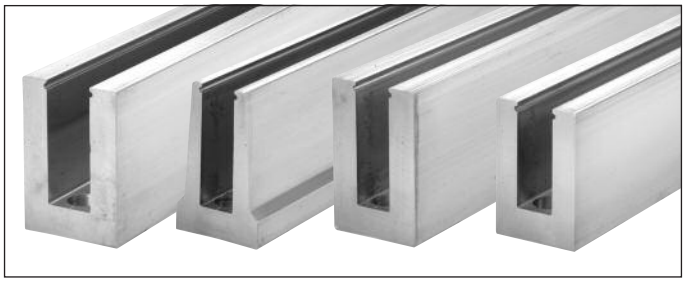


Roll in the Glazing Gasket and you're done! The TAPER-LOC™ System makes it quick, clean, and simple.

- **Fast, Affordable, Flexible, and Removable, This is the System You Have Been Waiting For!**
- **Winner of Glass Magazine's 2009 Crystal Achievement Award for "Most Innovative Commercial Hardware Product"**

- **Now Featuring TAPER-LOC™ 'X' (See Page B118)**

CRL has designed a complete line of tools, fasteners, and accessories to make installation even easier. These items can be found on pages B114 to B131. 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**.



A Variety of Base Shoe Styles to Meet Your Needs.
See pages B134 to B135.

TAPER-LOC™ Tapers for Monolithic Glass.
See page B118.

TAPER-LOC™ Tapers for Laminated Glass.
See page B119.

PAL Plumb/Angle/Level Locator Kit. See page B114.

TAPER-LOC™ Installation/Removal Tool with Integrated Torque Wrench. See page B115.

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 B114, B123, and B155.

The CRL 'All-Glass' Railing System

Installed Using the TAPER-LOC™ Dry Glaze Method

TAPER-LOC™
DRY GLAZE RAILING SYSTEM
crlaurence.com
Patent Pending

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

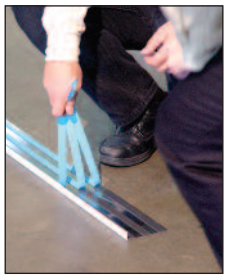
Base Shoe attachment is extremely critical to the structural integrity of a successful installation. The mounting methods listed below, then shown in detail on pages B132 and B133, are methods of attachment previously tested. Alternative methods of attachment may be possible, but should be determined after consultation with an engineer.

1. Base Shoe Attachment to Concrete (see page B132).
2. Base Shoe Attachment to Weld Blocks/Welded to a Steel Substrate (see page B132).
3. Base Shoe Attachment to Steel Substrate/Fascia Mount or Angle Mount (see page B133).
4. Base Shoe Attachment when Embedded in Concrete (see page B133).
5. Base Shoe Attachment to Embedded Steel Strip (see page B133).

3 Securing the Glass in the Base Shoe

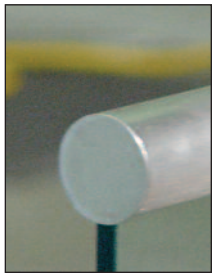
After securing the Base Shoe and checking for plumb, place required quantity of L-Setting Blocks on the bottom edge of the glass panel and insert into Base Shoe. Squeeze Tapers together and push the set half way down into the Base Shoe. Place the Installation/Removal Tool into position onto the Tapers 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 B154). 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 B154). 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**

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™
DRY GLAZE RAILING SYSTEM
crlaurence.com
Patent Pending

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 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.

CAT. NO. PAL1K

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 and Carrying Case.

CAT. NO. 406065

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

TAPER-LOC™ DRY GLAZE RAILING SYSTEM crlaurence.com Patent Pending

- Works With All of CRL's TAPER-LOC™ Systems and Components, Including Our New TAPER-LOC™ 'X' (See Page B118)
- 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

MANUFACTURED IN THE USA BY C.R. LAURENCE An ISO9001:2008 Certified Company

CAT. NO. TLK9
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.

Place the TAPER-LOC™ Tapers into base shoe finger tight at designated spacing.

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

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 TLK9 Installation/Removal Tool Kit and follow these steps.

Step 1
For adjustment or removal of the glass panel, the Cat. No. TLK9 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.

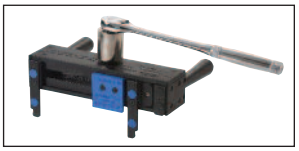
Step 3
Insert the TLK9 Installation/ Removal Tool into position, reverse the torque setting, and apply force to open the Tapers.

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

CRL GRS DRY GLAZE SYSTEM

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

- For Use With TLK5 and TLK9 TAPER-LOC™ Installation/Removal Tools for Surface Mount and Railing Installs
- For Standard Tapers and Our New TAPER-LOC™ 'X'

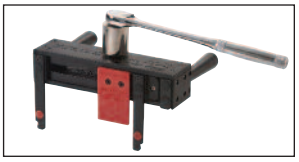


These CRL Standard Base Shoe Blades are designed for surface mounting of Guard Rails and Railings when using either of the TLK5 or TLK9 TAPER-LOC™ Installation/Removal Tools. Blades install easily using the supplied screws. Includes two Blades, one Pusher Plate, six Screws, and one Allen Wrench per pack.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

CAT. NO. TLB5

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

- For Use With TLK5 and TLK9 TAPER-LOC™ Installation/Removal Tools for Installs When Base Shoe is Recessed Into the Floor or in Fascia Mount Conditions
- For Standard Tapers and Our New TAPER-LOC™ 'X'

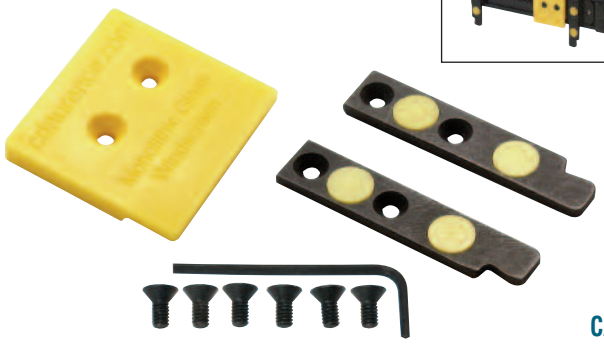


These CRL Extended Blades work with both the TLK5 and TLK9 TAPER-LOC™ Installation/Removal Tools for fascia mount or recessed base shoe conditions. They install easily using the supplied screws. Includes two Blades, one Pusher Plate, six Screws, and one Allen Wrench per pack. Minimum order is one pack.

CAT. NO. TLB6R

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

- For Use With TLK5 and TLK9 TAPER-LOC™ Installation/Removal Tools for Windscreen Installs



These CRL Windscreen Base Shoe Blades are designed to work with the TLK5 and TLK9 TAPER-LOC™ Installation/Removal Tools. They 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.

CAT. NO. TLB3

CRL Roller Blocks

- Roll Heavy Glass Panels With Ease
- Turn Over and Use as a Set of Resting Blocks
- Rubber Base Ensures Traction

CRL Roller Blocks were developed to aid in the safe handling of large glass panels used in railing projects. Each of the blocks has a cushioned 90 degree inside corner on which to rest the glass while rotating or maneuvering it into a vertical position. Minimum order is one pair.

CAT. NO. RB200

CRL GRS DRY GLAZE SYSTEM

CRL Upgrade Kit for TLK5 Installation/Removal Tools

- **Allows Original Model TLK5 Tools to Work With All Monolithic Tempered and Laminated Tempered Glass Installs**
- **Color Coded Blades and Pusher Plates for Easy Identification and Matching**

The TLK5 Upgrade Kit is available to bring your original model TLK5 TAPER-LOC™ Installation/Removal Tool Kit current and 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 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.

new

- **Blades Work With Regular Tapers and Our New TAPER-LOC™ *'X'* (See Page B118)**

CAT. NO. TLK7

CRL Monolithic Glass Railing Setting Tool

- **For Use With CRL's Dry Glazed TAPER-LOC™ System for Monolithic Glass**
- **Stabilizes and Centers the Glass Panel in the Base Shoe Pocket During Installation of Tapers**

The CRL Monolithic Glass Railing Setting Tool was designed to stabilize and center the monolithic glass panel in the aluminum base shoe during installation of CRL's Dry Glazed TAPER-LOC™ Tapers. The temporary setting tool also secures the monolithic glass panel in place, giving the installer time to adjust or align as required. Minimum order is one each.

Use Only TEMPERED GLASS

CAT. NO. GWST2

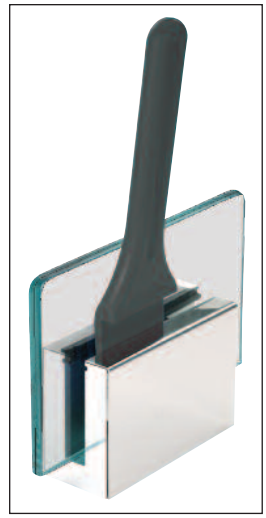
CRL Laminated Glass Railing Setting Tool

- **For Use With CRL's Dry Glazed TAPER-LOC™ System for Laminated Glass**
- **Stabilizes and Centers the Glass Panel in the Base Shoe Pocket During Installation of Tapers**

new

The CRL Laminated Glass Railing Setting Tool was designed to stabilize and center the laminated glass panel in the aluminum base shoe during installation of CRL's Dry Glazed TAPER-LOC™ Tapers. The temporary setting tool also secures the laminated glass panel in place, giving the installer time to adjust or align as required. Minimum order is one each.

Use Only LAMINATED TEMPERED GLASS



CAT. NO. LTLST3

CRL GRS DRY GLAZE SYSTEM

CRL TAPER-LOC™ Taper Set for 1/2" (12 mm), 15 mm, and 3/4" (19 mm) Monolithic Tempered Glass

TAPER-LOC™ DRY GLAZE RAILING SYSTEM crlaurence.com Patent Pending

- For Interior Use With CRL's B5A, B5S, B5T, B6S, and B7S Glass Railing Base Shoes
- 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

Use Only TEMPERED GLASS

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 Set
28" to 42" (711 to 1067 mm)	3 Set
42" to 56" (1067 to 1422 mm)	4 Set
56" to 70" (1422 to 1778 mm)	5 Set
70" to 84" (1778 to 2134 mm)	6 Set

CAT. NO. TL5W10
TAPER-LOC™ Tapers for Interior Use

CRL's TAPER-LOC™ Taper Set for 1/2" to 3/4" (12 to 19 mm) tempered glass is made up of two Tapers and one L-Setting Block. Tapers are made of high strength reinforced engineering grade polymer, and are intended for interior railing projects. They expand in thickness when compressed together with the Cat. No. TLK9 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 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. Minimum order is ten Taper Sets.

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

TAPER-LOC™ DRY GLAZE RAILING SYSTEM crlaurence.com Patent Pending

- For Exterior Use Where Weather Conditions Can Affect the Performance of a Railing Installation
- Easy to Remove Exterior Grade Aluminum Tapers
- Can Be Installed Using Our TLK5 and TLK9 Installation/Removal Tools, So You Won't Have Any Extra Expense
- Will Work With CRL's B5A, B5S, B5T, B6S, and B7S Glass Railing Base Shoes

new

Use Only TEMPERED GLASS

CAT. NO. TL5X10
TAPER-LOC™ *'X'* Tapers for Exterior Use

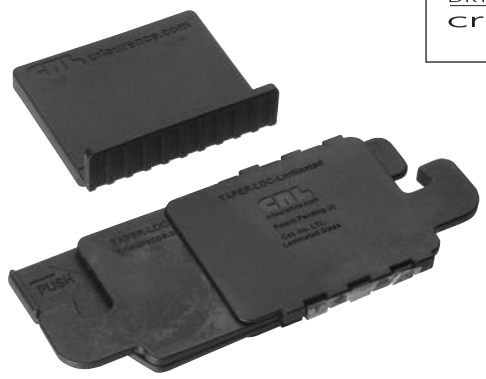
CRL's newest TAPER-LOC™ is designed for ***X***-terior installations where railing systems are ***X***-posed to the ***X***-tremes of harsh weather conditions. TAPER-LOC™ ***'X'*** incorporates ***X***-tra sturdy engineering grade polymer and black anodized aluminum tapers that makes TAPER-LOC™ ***'X'*** easier to ***X***-tract in case a glass panel ever has to be replaced or reset.

TAPER-LOC™ ***'X'*** installs using the same tool as regular TAPER-LOC™ Tapers, so no additional ***X***-pense is required on your part. So if you have a railing project that will be subject to the ***X***-tremes of weather, try TAPER-LOC™ ***'X'***. We're ***X***-cited about this new development, and ***X***-pect that you will be too. Minimum order is ten Taper Sets.

CRL TAPER-LOC™ Taper Sets for 9/16" (13.52 mm) Laminated Tempered Glass

TAPER-LOC™ DRY GLAZE RAILING SYSTEM crlaurence.com Patent Pending

- For Use With 9/16" (13.52 mm) Laminated Tempered Glass [1/4" x .060" x 1/4" (6 x 1.52 x 6 mm)]
- Great for Stadiums, Condos, or Areas Trying to Avoid the Hazard of Broken Glass Falling to Lower Levels
- Designed for Use With CRL's L56S Laminated Glass Base Shoe Only
- New TAPER-LOC™ *'X'* Tapers Now Available for Exterior Use



Use Only LAMINATED TEMPERED GLASS

MANUFACTURED IN THE USA BY C.R. LAURENCE An ISO9001:2008 Certified Company

CAT. NO.	APPLICATION
LTL96	TAPER-LOC™ for Interior Use
LTL96X	TAPER-LOC™ *'X'* for Exterior Use

Minimum order: 10 Taper Sets. All Taper Sets can be combined for quantity pricing.

CRL's TAPER-LOC™ Taper Sets for 9/16" (13.52 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. TLK9 Installation/Removal Tool, mechanically locking the glass panel into the base shoe. TAPER-LOC™ *'X'* use black anodized aluminum tapers that withstand exposure to weather conditions. 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 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. Minimum order is ten Taper Sets.

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 TAPER-LOC™ Taper Sets for 27/32" (21.52 mm) and 1-1/16" (25.52 mm) Laminated Tempered Glass

TAPER-LOC™ DRY GLAZE RAILING SYSTEM crlaurence.com Patent Pending

- For Use With 27/32" (21.52 mm) and 1-1/16" (25.52 mm) Laminated Tempered Glass [3/8" x .060 x 3/8" (10 x 1.52 x 10 mm) and 1/2" x .060 x 1/2" (12 x 1.52 x 12 mm)]
- Great for Stadiums, Condos, or Areas Trying to Avoid the Hazard of Broken Glass Falling to Lower Levels
- Designed for Use With CRL's L21S and L25S Laminated Glass Base Shoes Only
- New TAPER-LOC™ *'X'* Tapers Now Available for Exterior Use

Use Only LAMINATED TEMPERED GLASS

MANUFACTURED IN THE USA BY C.R. LAURENCE An ISO9001:2008 Certified Company

CAT. NO.	APPLICATION
LTL10	TAPER-LOC™ for Interior Use
LTL10X	TAPER-LOC™ *'X'* for Exterior Use

Minimum order: 10 Taper Sets. All Taper Sets can be combined for quantity pricing.

CRL's TAPER-LOC™ Taper Sets for 27/32" (21.52 mm) and 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. TLK9 Installation/Removal Tool, mechanically locking the glass panel into the base shoe. TAPER-LOC™ *'X'* use black anodized aluminum tapers that withstand exposure to weather conditions. 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 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. Minimum order is ten Taper Sets.

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 Rigid Rubber Spacing Blocks With Adhesive

- **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 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	B5S, B5T, B5L, B6S and L56S	1/2" (12 mm)	1/4" (6.3 mm)	3-5/16" (84 mm)	100
GR7ASB	B7S	3/4" (19 mm)	1/4" (6.3 mm)	3-5/16" (84 mm)	100
LGR21SB	L21S	7/8" (22 mm)	1/4" (6.3 mm)	3-5/16" (84 mm)	100
LGR25SB	L25S	1" (25 mm)	1/4" (6.3 mm)	3-5/16" (84 mm)	100

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

CRL Vinyl Roller Tools for Top Rubber Gasket

- **Solid Aluminum Handle With Hard Coat Anodized Finish**
- **Easy-Rolling Ball Bearing Wheel**

CAT. NO. VR04

CAT. NO. VR17

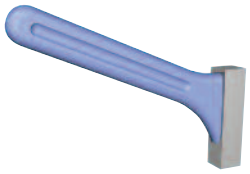
These CRL Vinyl Roller Tools are ideal for inserting Top Rubber Gasket into Base Shoe. Knurled diamond grip for sure handling, and a smooth rolling ball bearing wheel. Now available in standard 11" (279 mm) and deluxe 17" (432 mm) lengths.

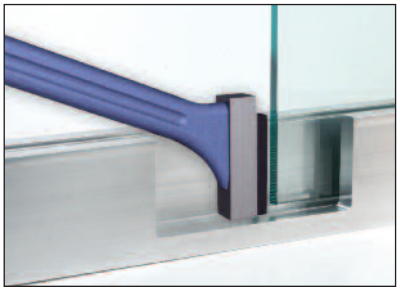
CAT. NO.	DESCRIPTION
VR04	11" (279 mm) Vinyl Roller Tool
VR17	17" (432 mm) Vinyl Roller Tool

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

CRL Rubber Spacing Block Installation Tool

- **Makes Positioning of Spacing Blocks 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 Rubber Spacing Block is now in the proper location.

CAT. NO.	DESCRIPTION
RSB1T	Rubber Spacing Block Installation Tool

Minimum order: 1 each.

CRL TAPER-LOC™ Demo Kit

- **Great for Sales Presentations and Showrooms**
- **Includes Carrying Case**
- **Includes Monolithic and Laminated Glass Samples**

new

One each Taper Set for monolithic tempered and laminated tempered glass included in Kit. Installation Tool used for demonstration is not included, and must be ordered separately.

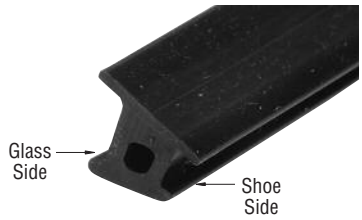
CRL's TAPER-LOC™ Demo Kit is great for sales presentations or showrooms. Clients can now see how this innovative system really works. The Demo Kit offers all the component parts needed to install a glass balustrade system. Cat. No. TLK9 Installation/Removal Tool (sold separately) is required for the assembly process, see page B115.

CAT. NO.	SIGNAGE	DESCRIPTION
TLDK1US	English	Kit for use in U.S. and Canada
TLDK1AU	English	Kit for use in Australia
TLDK1UK	English	Kit for use in Europe
TLDK1DE	German	Kit for use in Europe

Minimum order: 1 each.

CRL Top Rubber Gasket for Monolithic Tempered Glass Base Shoe

- **Quick and Easy Rubber Gasket Locks in Place When Used With CRL's B5S, B5L, B5T, B6S, and B7S Glass Railing Base Shoes**



CAT. NO. BSG100
Used for Monolithic Glass Base Shoe

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 page B120). An alternate method of finishing off the top pocket is to use CRL Open Cell Backer Rod (see page B122) and 95CBL Black Silicone (see page B122).

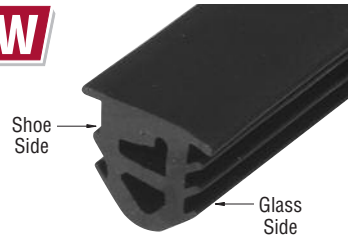
CAT. NO.	COLOR	GLASS THICKNESS	ROLL LENGTH
BSG100	Black	1/2" to 3/4" (12 to 19 mm)	100' (30.5 m)
BSG500	Black	1/2" to 3/4" (12 to 19 mm)	500' (152.4 m)

Minimum order: 1 roll.

CRL Top Rubber Gasket for Laminated Tempered Glass Base Shoe

new

- **Quick and Easy Rubber Gasket Locks in Place When Used With CRL's L56S, L21S, and L25S Glass Railing Base Shoe**



CAT. NO. LBSG100
Used for Laminated Glass Base Shoe

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 page B120). An alternate method of finishing off the top pocket is to use CRL Open Cell Backer Rod (see page B122) and 95CBL Black Silicone (see page B122).

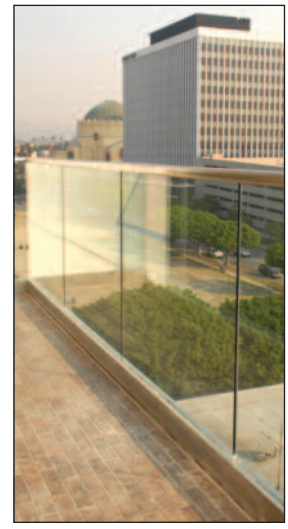
CAT. NO.	COLOR	GLASS THICKNESS	ROLL LENGTH
LBSG100	Black	9/16", 27/32", or 1-1/16" (13.52, 21.52, or 25.52 mm)	100' (30.5 m)
LBSG200	Black	9/16", 27/32", or 1-1/16" (13.52, 21.52, or 25.52 mm)	200' (61 m)

Minimum order: 1 roll.

CRL Fast-Seal Top Rubber Gasket for Base Shoe

new

- **Quick and Easy EPDM Rubber Gasket for Railing Base Shoe**
- **Locks in Place When Used With CRL Base Shoe**



Use CRL's BSG250 Fast Seal Top Rubber Gasket for glass railing applications where there is no access to the outside shoe edge. It's designed to be installed to the outside cladding edge before the glass is set in place, eliminating the difficulty and risk of reaching over the guard rail for seal installation. Use CRL's BSG100 or BSG500 Roll-In Glazing Gasket to finish off top inside edge of the base shoe pocket.

CAT. NO.	COLOR	ROLL LENGTH
BSG250	Black	250' (76.2 m)

Minimum order: 1 roll.

CRL GRS DRY GLAZE SYSTEM

CRL 95C Silicone Building Sealant

SPEC. DATA MSDS

- **Excellent Primerless Adhesion to Most Common Construction Substrates**
- **Excellent Adhesive for Setting Windscreen Posts to Stanchions**
- **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, 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. It is designed for sealing expansion and control joints in 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).

Available in These Six Colors

Black | Dark Bronze | Gray | Limestone | Precast White | White

COLOR new

CAT. NO.	COLOR
95CBL	Black
95CDBRZ	Dark Bronze
95CGRY	Gray
95CL	Limestone
95CW	Precast White
95CWHT NEW	White

Minimum order: 1 each. Colors can be combined for quantity pricing. Also available in 2 or 4.5 gallon pails.

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 Insert Tool Set

- **Easily Works With Closed or Open Cell Backer Rod**

The CRL Backer Rod Insert Tool Set is the quickest, easiest, and safest way to install backer rod. The proper insertion of backer rod into the joint is imperative to proper joint sealing. The assortment of rollers allow insertion of backer rod diameters of 1/8" (3 mm) and larger. The tool allows you to set the desired depth to assure uniformity. The nylon wheels won't damage the backer rod, or scratch adjacent channel walls.

CAT. NO. T607CU605

CRL GRS DRY GLAZE SYSTEM

CRL Base Shoe Alignment Adapter

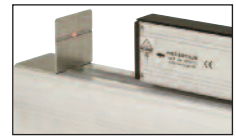
- **Use With 406065 Laser to Adapt to Railing Base Shoe**
- **Plumb and Level All Your TAPER-LOC™ Dry Glaze Railing Installs**

The CRL Base Shoe Alignment Adapter was designed to attach to Cat. No. 406065 Laser 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 to Level Railing Base Shoes During Install**



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

CAT. NO. LT1

CRL Stanley 100' 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 Pens

- **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 Mechanical Pencil 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; refill leads 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 Original Mechanix Gloves

- **Available in Two Sizes**

CAT. NO. MG05010
Large

CAT. NO. MG05011
Extra Large

CRL Original Mechanix Gloves, the gloves that started it all, have been a mainstay in just about every industry where people use their hands. Minimum order is one pair.

CRL Ultimate 25' Power Tape Rule

- **Ultra-Rigid 1" (25 mm) Wide Steel Blade With Large Easy-to-Read Numbers**
- **Ergonomic Case for Exceptional Comfort and Secure Grip**

This CRL Ultimate Power Tape Rule has an innovative inline gear which allows it to fit perfectly in your hand for exceptional comfort and a secure grip. The nylon coated, 25' two-color blade has 16" (406.4 mm) stud markings and features a triple rivet hook connection. An active bumper protects both the blade and rivets from retraction shock ensuring long blade life. Minimum order is one each.

CAT. NO. 54225

CRL GRS GLASS RAILING SYSTEM

GRS Glass Rail System With 2" (51 mm) Top Cap

GRS Glass Rail System With 2" (51 mm) Top Cap

GRS Glass Rail System With 2" (51 mm) Top Cap and 1-1/2" (38 mm) Hand Rail

GRS Glass Rail System With 3" (76 mm) Top Cap

The CRL GRS Wet Glaze System

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

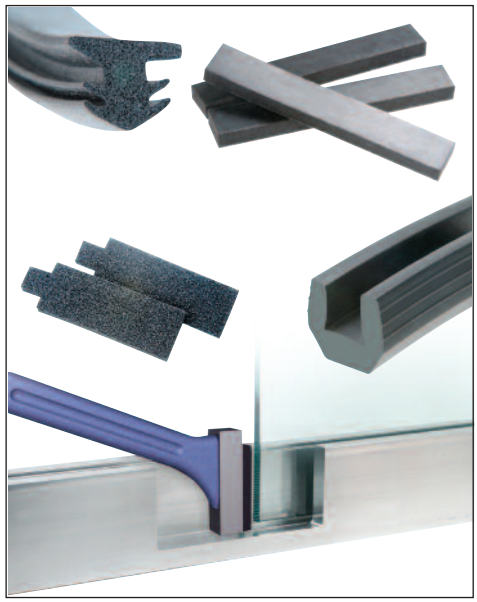
Wet Glaze installations basically secure lites of 1/2" (12 mm), 15 mm, and 3/4" (19 mm) tempered glass in engineered and approved Base Shoes with expanding cement. Our goal was to take an industry approved installation system and make it better.

Described below are some of the improvements. Not all of our newly designed products are required to complete the job. 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. Then the fixture can 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**.

CRL Wet Glaze Installation Kit. See page B127.



Spacing, Centering, and Sealing Accessories. See pages B130 to B131.

Expanding Cement Delivery and Mixing Accessories. See pages B128 to B129.

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.

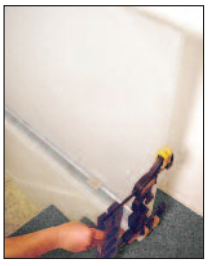
CRL's testing was performed to assure the user that our Base Shoe and fasteners were tested and passed the code regulations. The attachment steel plates, welds, concrete make-up, and strength are the responsibility of the user as these conditions are beyond our control.

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 B132 and B133, 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 B132).
2. Base Shoe Attachment to Weld Blocks/Welded to a Steel Substrate (see page B132).
3. Base Shoe Attachment to Steel Substrate/Fascia Mount or Angle Mount (see page B133).
4. Base Shoe Attachment when Embedded in Concrete (see page B133).
5. Base Shoe Attachment to Embedded Steel Strip (see page B133).

3 Securing the Glass in the Base Shoe

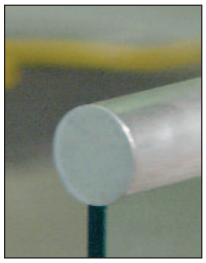


Place Setting and Centering Blocks at quarter points on the bottom edge of glass panel and insert into Base Shoe. Shim for height as required. Shim to plumb glass as required or use the CRL Clamp and Alignment Fixture (see page B127). Mix Expanding Cement and apply to area between the glass and Base Shoe using CRL Pouring Ramp, Pump, or Dispenser Bottle (see page B128).

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 B154). 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 B154). 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 UPON REQUEST

You may also view them on our web site at **crlaurence.com**

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 expansion cement sets. Additional Clamp and Alignment Fixtures allow you to do multiple panel pours.

CRL Clamp and Alignment Fixture

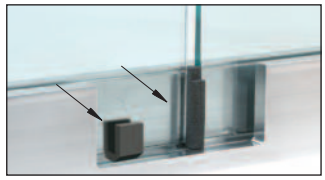
- **Secures and Aligns the Glass**
- **Plumb Within 1/32" (.8 mm) When Used With a Laser**
- **Retains Position Until Cement Sets**

CAT. NO. GRAT1

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.

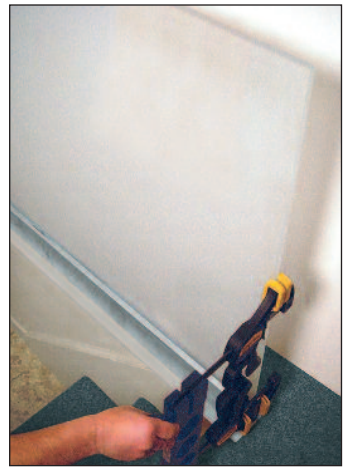
Five Easy Steps to Accurate Alignment

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.

STEP3: 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 Expansion Cement to 3/8" (9.5 mm) below the top. Allow adequate time for it to set.

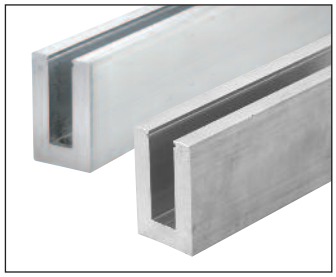
CRL PAL Plumb/Angle/Level Locator Kit

- **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**

CAT. NO. PAL1K

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 Wheel, an 8 oz. bottle of Blue Chalk, a Black Listo Marking Pencil, a Blue Sharpie Pen, and instructions, all in a molded carrying case.

Base Shoe

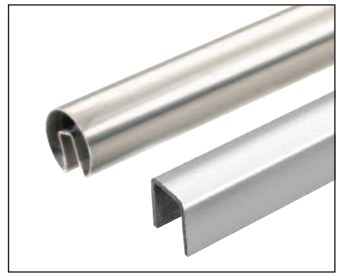


See pages B134 to B153

Expanding Cement and Mixing Tools

See page B129

Cap Rail



See pages B172 to B215

CRL Wet Glaze Pump and Accessories

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

When CRL decided to enter the Glass Rail 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 expansion 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 expansion 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.

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 B127 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.

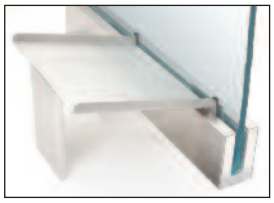
Details on Kit components are available from CRL Technical Sales or the CRL web site at **crlaurence.com**.

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.

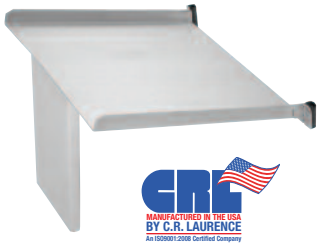
Simply mix your cement in the mixing bucket, insert the end of the Inlet Hose into the mixture, and depress the handy ON/OFF Switch located on the Delivery Nozzle. The Pump will immediately start to move the cement through the hose. Purge any excess water from the hose and release the ON/OFF Switch.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

CRL Pouring Ramp for Base Shoe Applications Using Expansion Cement

- **Neat and Effective Manual Delivery of Expansion Cement**
- **Shields Gasket Retention Groove in Base Shoe**
- **Wide Delivery Area**



The CRL Pouring Ramp provides a wide delivery area for mess-free pouring of 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.



CAT. NO.	DESCRIPTION
GRP35	Cement Pouring Ramp

Minimum order: 1 each.

CRL Dispensing Bottle for Expansion Cement

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

This is a durable plastic squeeze bottle that ideally applies the expansion 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
GRP36	Cement Dispensing Bottle

Minimum order: 1 each.

CRL Kwixset® and Rockite® Expanding Cements

SPEC. DATA MSDS

- Kwixset® for Exterior and Interior Applications
- Rockite® for Interior Applications Only
- 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.

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	1-1/2	24	709
8 (2.4 m)	10 (4.54 kg)	135.2	4000	3	48	1418
12 (3.6 m)	15 (6.80 kg)	202.8	6000	4-1/2	72	2127

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 48 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 2127 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. Simply mix expanding cement with water. 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 B128) 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	High Speed Mixer

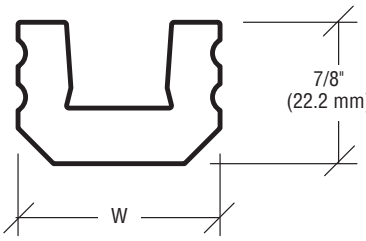
Minimum order: 1 each.

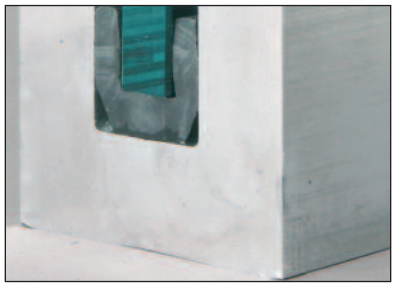
CAT. NO. MX91
High Speed Mixer
(sold separately)

CRL GRS WET GLAZE SYSTEM

CRL Glass Railing Setting and Centering Blocks

- Easily Center Glass Panels in Hand Rail Base Shoe
- Supports Glass Panels for Expanding Cement Installations
- Available in 4" (102 mm) Cut Pieces or 25' (7.6 m) Bulk Rolls





CRL Setting and Centering Blocks are available for use with our B5L, B5S, B5T, B6S, B7S, L56S, L21S, and L25S Series Base Shoe. Stocked in pre-cut 4" (102 mm) pieces, they are made of black EPDM rubber for durability and longevity. **NOTE:** Three are available in 25' (7.6 m) rolls that can be cut to any length. CRL recommends two 4" (102 mm) pieces located at quarter points along the bottom edge of each glass panel.

CAT. NO.	GLASS THICKNESS	BASE SHOE SERIES	"W" WIDTH	PACKAGING
GR4UB4	15 mm ●	B6S	1-1/4" (31.7 mm)	*20 each 4" (102 mm) per Pack
GR5UB4	1/2" (12 mm) ●	B5S, B5T, B5L	1" (25.4 mm)	*20 each 4" (102 mm) per Pack
GR6UB4	5/8" (16 mm) ●	B7S	1-1/4" (31.7 mm)	*20 each 4" (102 mm) per Pack
GR7UB4	3/4" (19 mm) ●	B7S	1-1/4" (31.7 mm)	*20 each 4" (102 mm) per Pack
LGR56UB4	9/16" (13.52 mm)**	L56S	1-1/4" (31.7 mm)	*20 each 4" (102 mm) per Pack
LGR8UB4	27/32" (21.52 mm)**	L21S	1-5/8" (41.3 mm)	*20 each 4" (102 mm) per Pack
LGR10UB4	1-1/16" (25.52 mm)**	L25S	1-3/4" (44.5 mm)	*20 each 4" (102 mm) per Pack
GR5UB25	1/2" (12 mm) ●	B5S, B5T, B5L	1" (25.4 mm)	▲25' (7.6 m) per Roll
GR6UB25	5/8" (16 mm) ●	B7S	1-1/4" (31.7 mm)	▲25' (7.6 m) per Roll
GR7UB25	3/4" (19 mm) ●	B7S	1-1/4" (31.7 mm)	▲25' (7.6 m) per Roll

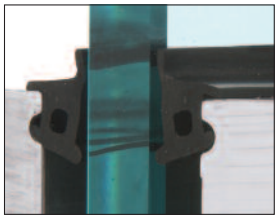
*Minimum order for 4" (102 mm) pieces is 20 each. ▲Must be ordered in increments of 20. Minimum order: 1 roll. ● Monolithic Glass. ** Laminated Glass.

CRL Top Rubber Gasket for Base Shoe

- Quick and Easy EPDM Rubber Gasket for Railing Base Shoe
- Locks in Place When Used With CRL Base Shoe

CRL Top Rubber Gasket finishes off the top of the Base Shoe pocket after glass has been set. It also works great as a seal when used in conjunction with CRL Base Shoe when doing slant pours.

This gasket easily rolls in with the CRL Vinyl Roller Tool (see page B120). An alternative method of finishing the top pocket is to use CRL Open Cell Backer Rod and CRL 95CBL Black Silicone (see page B122).



CAT. NO.	BASE SHOE SERIES	ROLL LENGTH
BSG100	B5S, B5T, B5L, B6S, B7S	100' (30.5 m)
BSG500	B5S, B5T, B5L, B6S, B7S	500' (152.4 m)
LBSG100	L565, L21S, L25S	100' (30.5 m)
LBSG200	L56S, L21S, L25S	200' (61 m)

Minimum order: 1 roll.

CRL Black Fast-Seal Top Rubber Gasket for Base Shoe

new

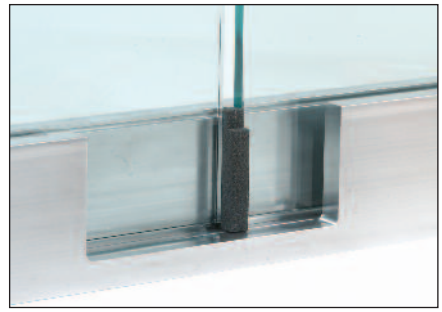
- Quick and Easy EPDM Rubber Gasket for Railing Base Shoe
- Locks in Place When Used With CRL Base Shoe

Use CRL's BSG250 Fast Seal Top Rubber Gasket for glass railing applications where there is no access to the outside shoe edge. It's designed to be installed to the outside cladding edge before the glass is set in place, eliminating the difficulty and risk of reaching over the guard rail for seal installation. Use CRL's BSG100 or BSG500 Roll-In Glazing Gasket to finish off top inside edge of the base shoe pocket.

CAT. NO.	ROLL LENGTH
BSG250	250' (76.2 m)

Minimum order: 1 roll.

CRL High Density Foam Spacing and Sealing Pads



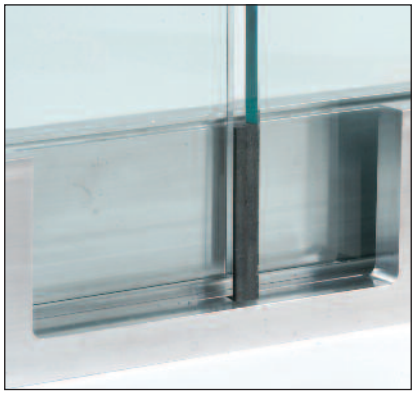
- **Die Cut Foam Pad With Adhesive on One Side**
- **Fast and Accurate Spacing and Sealing of Glass Panels**
- **Can Be Adhered Together to Increase the Gap Between the Glass Panels in 1/4" (6 mm) Increments**

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	B5S, B5T, and B5L	1/2" (12 mm)	1-1/16" (27 mm)	1/4" (6.3 mm)	3-7/16" (87 mm)	20
GR7NSB	B7S	3/4" (19 mm)	1-5/16" (33 mm)	1/4" (6.3 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



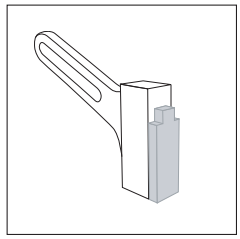
- **Adhesive Back Holds Spacing Block in Place**
- **Maintains Even Spacing of Glass Panels**

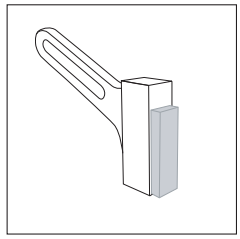
CRL Rigid Rubber Spacing Blocks with Adhesive provide even spacing between glass panels. They are always necessary on slant stair installations to prevent the glass panels from sliding down. They are easily installed and perfectly aligned every time using the CRL Rubber Spacing Block Installation Tool (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.

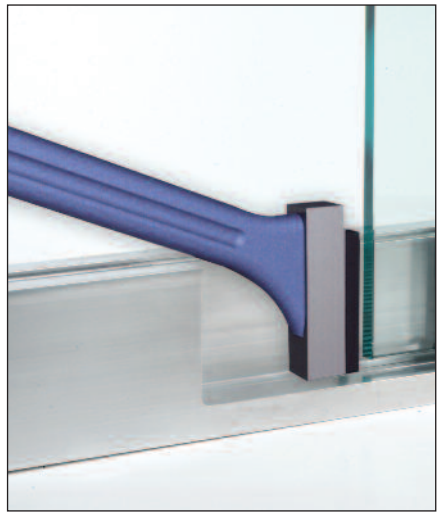
CAT. NO.	FITS BASE SHOE SERIES	WIDTH	THICKNESS	LENGTH	QTY/PKG
GR5ASB	B5S, B5T, B6S, L56S, and B5L	1/2" (12 mm)	1/4" (6.3 mm)	3-5/16" (84 mm)	100
GR7ASB	B7S	3/4" (19 mm)	1/4" (6.3 mm)	3-5/16" (84 mm)	100
LGR21SB	L21S	13/16" (21 mm)	1/4" (6.3 mm)	3-5/16" (84 mm)	100
LGR25SB	L25S	1-1/16" (27 mm)	1/4" (6.3 mm)	3-5/16" (84 mm)	100

Minimum order: 100 each. Blocks must be ordered in increments of 100.

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.

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

Minimum order: 1 each.

Typical Base Shoe Attachments

Attachment Concerns and Information

Our Glass Railing Base Shoes and Fasteners are tested to meet model code regulations. This testing only covers the structural integrity of the Base Shoes 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.

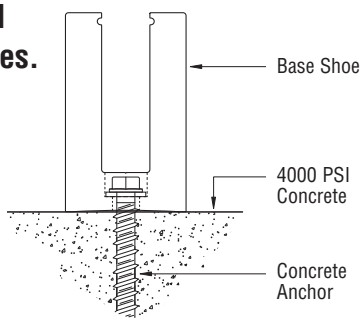
It is important to note that every project should be considered unique, and individual testing and engineering should be performed. Therefore, tight specifications, and a set of structurally engineered plans approved by the local building department, along with job site testing, are a must to cover the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

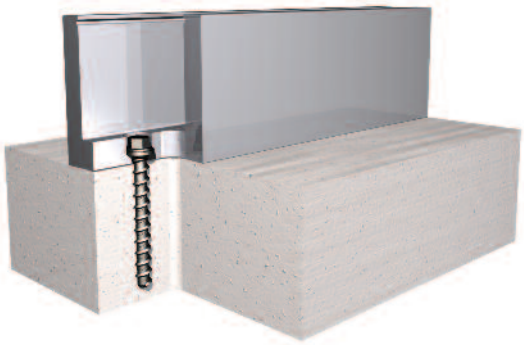
Illustrated here are five typically approved types of installation attachments commonly used in the industry today. Your project may vary. PDF drawing files are available for each of the five different attachment scenarios, along with model code regulations and testing. Data can be viewed on our web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

① Base Shoe Attachment to Concrete

Works With B5S, B5T, B5L, B6S, and B7S Monolithic Series Base Shoes. Also Works With L56S, L21S, and L25S Laminated Series Base Shoes.

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 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 4000 psi concrete, sufficient strength was achieved to pass testing.

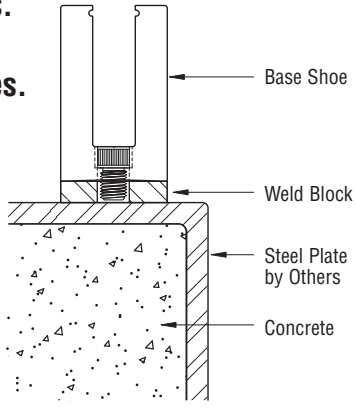




② Base Shoe Attachment to Weld Blocks/Welded to a Steel Substrate

Works With B5S, B5T, B5L, B6S, and B7S Monolithic Series Base Shoes. Also Works With L56S, L21S, and L25S Laminated Series Base Shoes.

In many instances, installing Base Shoes 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.

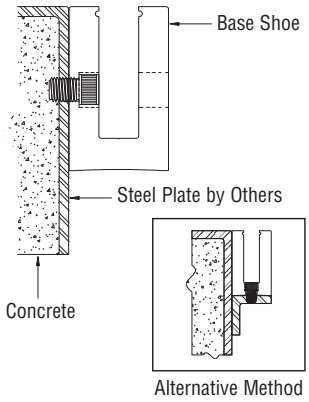


Typical Base Shoe Attachments

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

Works With B5S, B5T, B5L, B6S, and B7S Monolithic Series Base Shoes. Also Works With L56S, L21S, and L25S Laminated Series Base Shoes.

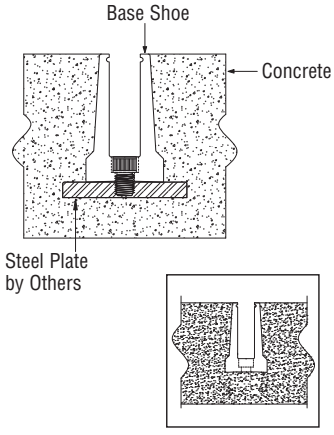
If you are attaching a Base Shoe to a channel or angle from the side, this is called a Fascia Mount. Base Shoe should be attached to steel substrate prior to concrete being poured. Otherwise, drilling and tapping of steel may be difficult, if not impossible. Use of Weld Blocks may be a possible solution. 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.



④ Base Shoe Attachment When Embedded in Concrete

Works With B5T Series Base Shoe

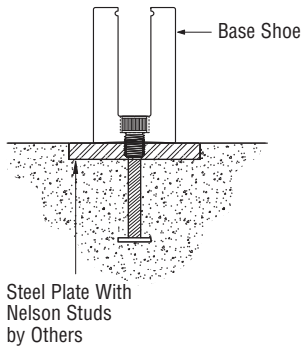
If planning and time permit, a poured in place Base Shoe is often preferred when an 'all-glass' look is desired. This eliminates any Base Shoe showing, and gives the impression that the glass comes directly out of the floor. A Tapered Base Shoe was developed for this application. When poured in place 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 Technical Sales.



⑤ Base Shoe Attachment to Embedded Steel Strip

Works With B5S, B5T, B5L, B6S, and B7S Monolithic Series Base Shoes. Also Works With L56S, L21S, and L25S Laminated Series Base Shoes.

This attachment is often used in multi-story buildings with concrete floors. A 4" (101.6 mm) wide x 1/2" (12.7 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" (9.5 x 63.5 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.



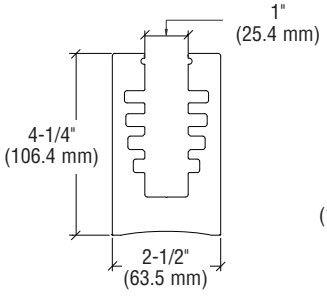
CRL B5A Series SurfaceMate Square Base Shoe

- 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
- Custom Cutting and Mitering Service Available
- 6063 Alloy
- T52 Temper

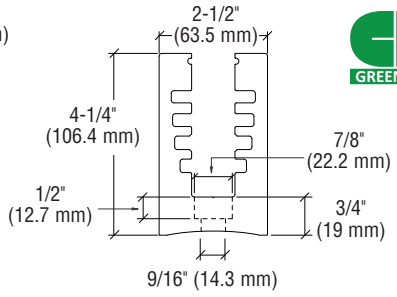
new

Patent Pending

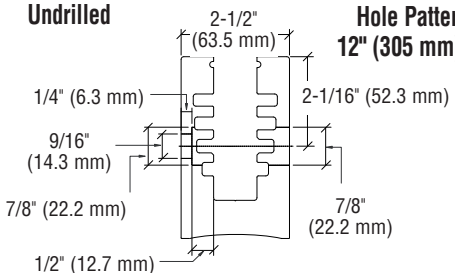
Use Only TEMPERED GLASS



Undrilled



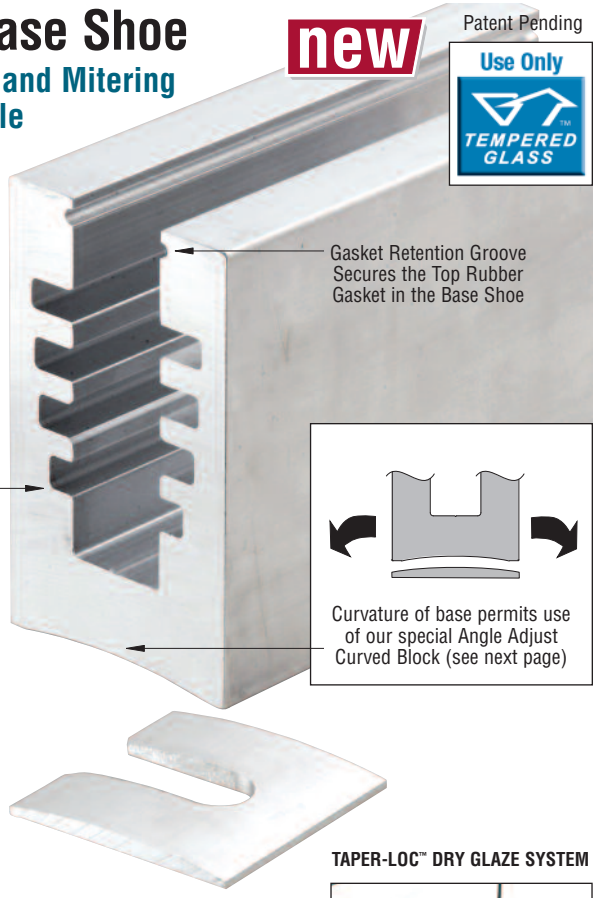
Hole Pattern "D"
12" (305 mm) C.T.C.



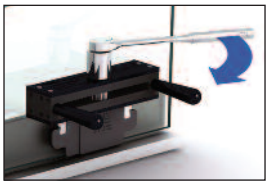
Hole Pattern "F"
12" (305 mm) C.T.C.

GREEN PRODUCT

Engineered extrusion reduces the weight of the Base Shoe on the substrate by 15%. This reduces the cost of the Base Shoe, and also helps you save on shipping costs



TAPER-LOC™ DRY GLAZE SYSTEM



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

TAPER-LOC™
DRY GLAZE RAILING SYSTEM
crlaurence.com
Patent Pending

The New 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 PAL tool indicates level. Additional matched size aluminum horseshoe shims are available in three thicknesses for adjusting the height when an abrupt dip is encountered.

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 grooves in the inner channel help to reduce the weight of the base shoe by about 15%, which reduces the weight on the mounting substrate, and also helps you save on shipping costs.

CAT. NO. TL5X10
TAPER-LOC™ 'X' Tapers for Exterior Use

CAT. NO. TL5W10
TAPER-LOC™ Tapers for Interior Use

B5A Series SurfaceMate Square Base Shoe

GLASS SPECIFICATIONS:
1/2" (12 mm) Thick Glass when using TAPER-LOC™ Dry Glaze System

For Test Results and Drilling Recommendations, See Pages B157 and B161.

CAT. NO.	STOCK LENGTH*	HOLE SIZE	COUNTER BORE X DEPTH	CENTER-TO-CENTER	WEIGHT
B5A10D**	120" (3.05 m)	9/16" (14.3 mm)	7/8" (22.2 mm) x 1/2" (12.7 mm)	12" (305 mm)	73 pounds (33 kg)
B5A10F	120" (3.05 m)	9/16" (14.3 mm)	7/8" (22.2 mm) x 1/2" (12.7 mm)	12" (305 mm)	73 pounds (33 kg)
B5A10△	120" (3.05 m)	-	Extrusion Only (Without Holes)	-	73 pounds (33 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 B132 to B133, and associated fasteners are shown on pages B156 to B157.

CRL B5A Series SurfaceMate Square Base Shoe

GREEN PRODUCT

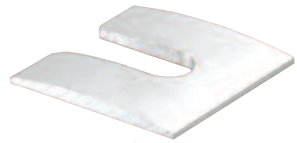
new
Patent Pending

• How SurfaceMate Works and Why it's Better

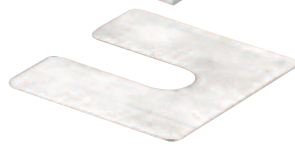
The SurfaceMate Adjustable Angle Base Shoe and Shimming System works using a special curved bottom Aluminum Base Shoe with Aluminum Blocks and Shims designed to allow adjustments to accommodate uneven and irregular surfaces. Place the SurfaceMate Base Shoe in its intended position on the mounting substrate and insert an Angle Adjust Curved Block under the shoe at each bolt hole. Loosely bolt the base shoe to the mounting substrate and then use your PAL Tool to adjust for plumb and level. The Angle Adjust Curved Block allows you to move the base shoe forward or back up to 3 degrees until the shoe is plumb. If the mounting surface has irregular dips from hole to hole you just insert Aluminum Horseshoe Shims as required to achieve level. Once you are sure your base shoe is both plumb and level the bolts can finally be tightened to specs. The combination of curved blocks and horseshoe shims can also make fascia mounting of SurfaceMate Base Shoe easier and more precise, since they are slotted for use in both horizontal and vertical positions.

• Why SurfaceMate Base Shoe Has Grooves in the Channel

B5A Series SurfaceMate Base Shoe has a redesigned internal side wall structure in both walls of the glass channel. This lowers the overall weight of the base shoe approximately 15%. This helps reduce the stress of the Base Shoe on the mounting substrate. It also results in lower shipping costs for you. All of this is accomplished without any reduction in structural integrity.



Aluminum Angle Adjust Curved Block

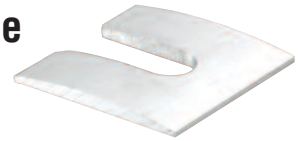


Aluminum Horseshoe Shim

• Which TAPER-LOC™ Tapers Are Right for SurfaceMate

B5A Series SurfaceMate Base Shoe can be used with both our Cat. No. TL5W10 Taper Sets for interior use, and the new Cat. No. TL5X10 TAPER-LOC™ ***'X'*** Taper Sets for exterior use. For more information on TAPER-LOC™ and TAPER-LOC™ ***'X'***, see pages B118 and B119.

CRL SurfaceMate Angle Adjust Curved Blocks

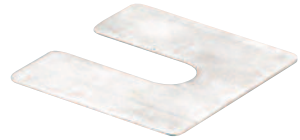


SurfaceMate Angle Adjust Curved Blocks (Cat. No. AASC1) are placed directly beneath the SurfaceMate Base Shoe at each bolt hole location. They are slotted to allow for minor adjustments to the placement of the block so that the base shoe can be adjusted to perfect plumb. There is also an Angle Adjust Curved Block (Cat. No. AACS2) that can be used in fascia mount application of SurfaceMate Base Shoe. See our website, **crlaurence.com**, for detailed diagrams of mounting methods.

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

Minimum order: 10 each. Must be ordered in increments of 10.

CRL SurfaceMate Horseshoe Shims



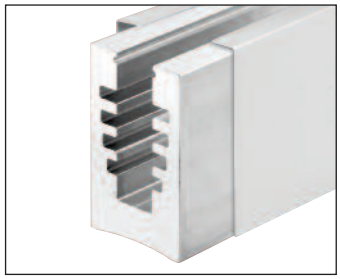
Aluminum Horseshoe Shims are available in three thicknesses for use with SurfaceMate Base Shoe. Shims are slotted to allow for minor adjustment, and can be stacked in various sizes to accommodate irregular surfaces below the base shoe and curved block. They can also be used in fascia mount applications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

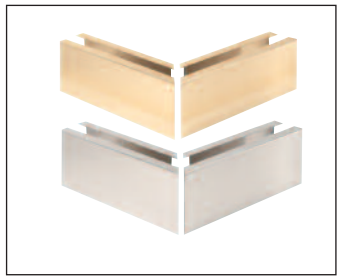
Minimum order: 100 each. Must be ordered in increments of 100. Sizes can be combined for quantity pricing.

CRL B5A Series SurfaceMate Square Base Shoe Cladding

Straight Cladding

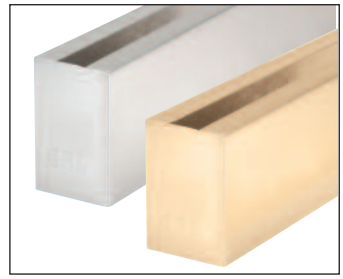


Mitered Corner Cladding



End Caps

Welded End Cladding

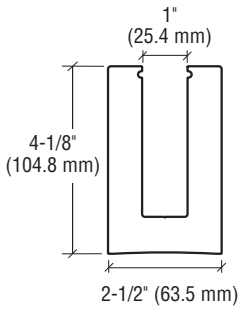


B5A Series SurfaceMate Square Base Shoe uses the same cladding components as our B5S Series Square Base Shoe. See page B137.

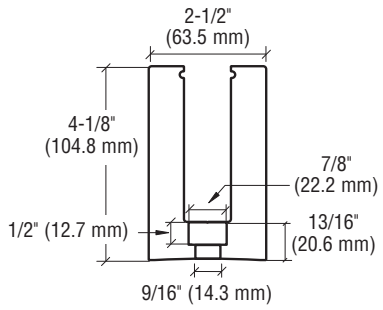
CRL B5S Series Standard Square Base Shoe

Use Only TEMPERED GLASS

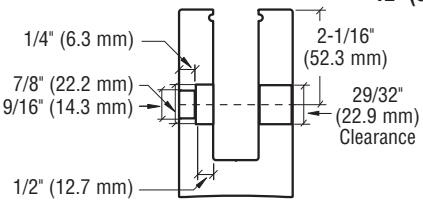
- For 1/2" to 5/8" (12 to 16 mm) Monolithic Tempered Glass
- Typically Used as the Base Channel for Glass Railing Systems or Windscreens
- Drilled and Counter Bored, or We Will Custom Drill to Your Specifications
- Custom Cutting and Mitering Service Available



Undrilled



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



Hole Pattern "F"
12" (305 mm) C.T.C.

- 6063 Alloy
- T52 Temper

Gasket Retention Groove Secures the Top Rubber Gasket in the Base Shoe

TAPER-LOC™ DRY GLAZE RAILING SYSTEM
crlaurence.com

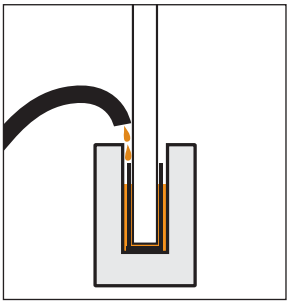
The CRL B5S Series Standard Square Base Shoe is used as the base channel for glass railing systems. It can be clad in six choices of architectural finishes (see next page). The most critical component in a railing system is the proper attachment of the Base Shoe to the substrate. CRL has engineered and 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 B132 to B133, and associated fasteners are shown on pages B156 to B157. A printed brochure with instructions, installation hints, cleaning, and refinishing techniques is available. You may also view it at **crlaurence.com**.

TL5W10 TAPER-LOC™ Taper Sets

TAPER-LOC™ DRY GLAZE SYSTEM

For Use with TL5W10 TAPER-LOC™ Taper Sets for 1/2" (12 mm) to 5/8" (16 mm) Monolithic Tempered Glass

WET GLAZE SYSTEM



For Use with 1/2" (12 mm) to 5/8" (16 mm) Monolithic Tempered Glass

B5S Series Standard Square Base Shoe

GLASS SPECIFICATIONS:
1/2" (12 mm) to 5/8" (16 mm) Thick Glass when using TAPER-LOC™ Dry Glaze System;
1/2" (12 mm) to 5/8" (16 mm) Thick Glass when using Wet Glaze System.

For Test Results and Drilling Recommendations, See Pages B157 and B161.

CAT. NO.	STOCK LENGTH*	HOLE SIZE	COUNTER BORE X DEPTH	CENTER-TO-CENTER	WEIGHT
B5S10D**	120" (3.05 m)	9/16" (14.3 mm)	7/8" (22.2 mm) x 1/2" (12.7 mm)	12" (305 mm)	84 pounds (38 kg)
B5S20D**	240" (6.10 m)	9/16" (14.3 mm)	7/8" (22.2 mm) x 1/2" (12.7 mm)	12" (305 mm)	167 pounds (76 kg)
B5S10F	120" (3.05 m)	9/16" (14.3 mm)	7/8" (22.2 mm) x 1/2" (12.7 mm)	12" (305 mm)	84 pounds (38 kg)
B5S20F	240" (6.10 m)	9/16" (14.3 mm)	7/8" (22.2 mm) x 1/2" (12.7 mm)	12" (305 mm)	167 pounds (76 kg)
B5S10Δ	120" (3.05 m)	-	Extrusion Only (Without Holes)	-	84 pounds (38 kg)
B5S20Δ	240" (6.10 m)	-	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 distribution 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.

CRL Cladding for B5S Series Standard Square Base Shoe

CRL Straight Cladding for 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 Cladding Tape or Silicone Sealant. See page B154 for CRL Cladding Tape, CRL Silicone Sealant, and attachment instructions. **NOTE:** Sold by individual pieces. Base Shoe requires two pieces for coverage on both sides.

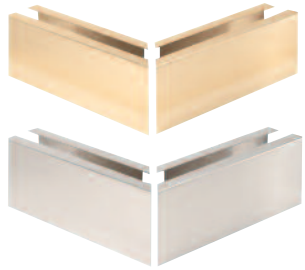
- Adhere With Cladding Tape or Silicone Sealant
- Available in Six Architectural Finishes
- Custom Cutting and Mitering Service Available

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
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. 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 12" Mitered Corner Cladding for B5S Series Standard 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 Cladding Tape or Silicone Sealant. See page B154 for CRL Cladding Tape, CRL Silicone Sealant, and attachment instructions. Comes four pieces per set.



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

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
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.

CRL End Caps for B5S Series Standard Square 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 Cladding Tape or Silicone Sealant. See page B154 for CRL Cladding Tape, CRL Silicone Sealant, and attachment instructions. Comes one per package.

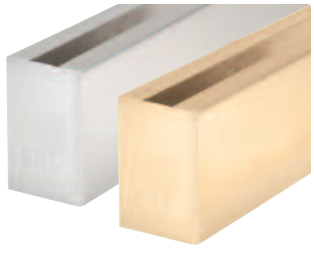
- Adhere With Cladding Tape or Silicone Sealant
- Available in Six Architectural Finishes

CAT. NO.	GRADE	GA./THK.	FINISH
B5SECBS	304	20/.035"	Brushed Stainless
B5SECPS	304	20/.035"	Polished Stainless
B5SECPB	C260	.045"	Polished Brass
B5SECSB	C260	.045"	Satin Brass
B5SECSA	5052	.050"	Satin Anodized
B5SECDU	5052	.050"	Dark Bronze Anodized

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

CRL 12" Welded End Cladding for B5S Series Standard 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 Cladding Tape and/or Silicone Sealant. See page B154 for CRL Cladding Tape, CRL Silicone Sealant, and attachment instructions. Comes one per package.



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

CAT. NO.	GRADE	GA./THK.	FINISH
B5SWCBS	304	20/.035"	Brushed Stainless
B5SWCPS	304	20/.035"	Polished Stainless
B5SWCPB	C260	.045"	Polished Brass
B5SWCSB	C260	.045"	Satin Brass

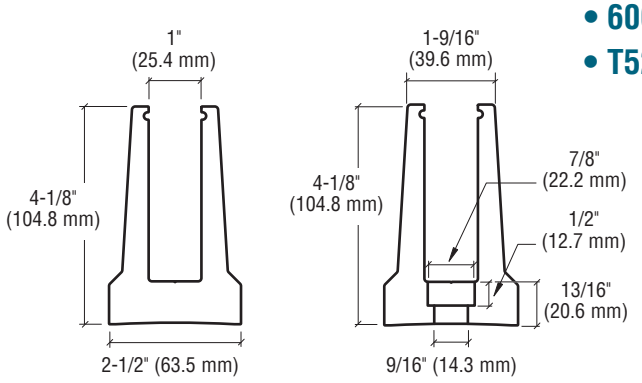
Minimum order: 1 each. All finishes can be combined for quantity pricing.

CRL B5T Series Tapered Base Shoe

- For 1/2" to 5/8" (12 to 16 mm) Monolithic Tempered Glass
- Typically Used as the Base Channel for Glass Railing Systems Requiring a Flush Installation Embedded in Concrete
- Drilled and Counter Bored, or We Will Custom Drill to Your Specifications

Use Only TEMPERED GLASS

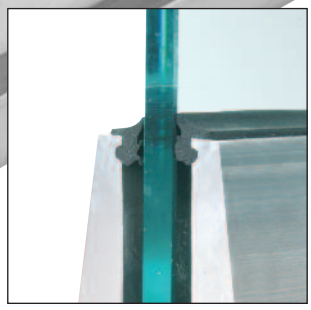
- 6063 Alloy
- T52 Temper



Undrilled

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

TAPER-LOC™ DRY GLAZE RAILING SYSTEM
crlaurence.com



Gasket Retention Groove Secures the Top Rubber Gasket in the Base Shoe

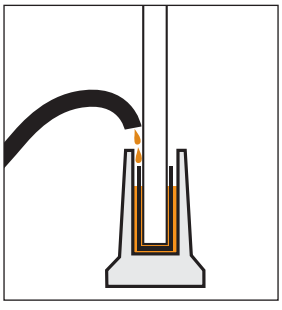
The CRL B5T Tapered Base Shoe is typically used as the base channel for glass railing systems. It can be clad in six choices of architectural finishes (see next page). The most critical component in a railing system is the proper attachment of the Base Shoe to the substrate. CRL has engineered and tested 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 B132 to B133, and associated fasteners are shown on pages B156 to B157. A printed brochure with instructions, installation hints, cleaning, and refinishing techniques is available. You may also view it at **crlaurence.com**.

TL5W10 TAPER-LOC™ Taper Sets

TAPER-LOC™ DRY GLAZE SYSTEM

For Use with TL5W10 TAPER-LOC™ Taper Sets for 1/2" (12 mm) Monolithic Tempered Glass

WET GLAZE SYSTEM



For Use with 1/2" (12 mm) to 5/8" (16 mm) Monolithic Tempered Glass

B5T Series Tapered Base Shoe

GLASS SPECIFICATIONS:
1/2" (12 mm) Thick Glass when using TAPER-LOC™ Dry Glaze System;
1/2" (12 mm) to 5/8" (16 mm) Thick Glass when using Wet Glaze System.

For Test Results and Drilling Recommendations, See Pages B157 and B161.

CAT. NO.	STOCK LENGTH*	HOLE SIZE	COUNTER BORE X DEPTH	CENTER-TO-CENTER	WEIGHT
B5T10D	120" (3.05 m)	9/16" (14.3 mm)	7/8" (22.2 mm) x 1/2" (12.7 mm)	12" (305 mm)	57 pounds (26 kg)
B5T20D	240" (6.10 m)	9/16" (14.3 mm)	7/8" (22.2 mm) x 1/2" (12.7 mm)	12" (305 mm)	114 pounds (52 kg)
B5T10	120" (3.05 m)	-	△ Extrusion Only (Without Holes)	-	57 pounds (26 kg)
B5T20	240" (6.10 m)	-	△ Extrusion Only (Without Holes)	-	114 pounds (52 kg)

* 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 distribution 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.

CRL Cladding for B5T Series Tapered Base Shoe

CRL Straight Cladding for B5T Series Tapered Base Shoe

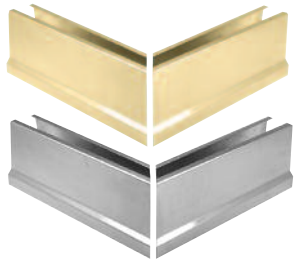
CRL Cladding allows the user to match any of six architectural finishes offered in Cap Railing. It can be secured to the Base Shoe using Cladding Tape or Silicone Sealant. See page B154 for CRL Cladding Tape, CRL Silicone Sealant, and attachment instructions. **NOTE:** Sold by individual pieces. Base Shoe requires two pieces for coverage on both sides.

- **Adhere With Cladding Tape or Silicone Sealant**
- **Available in Six Architectural Finishes**
- **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. 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 12" Mitered Corner Cladding for B5T Series Tapered Base Shoe



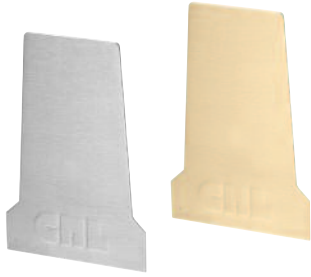
CRL Mitered Corner Cladding allows the user to match any of six architectural finishes offered in Cap Railing. Each leg is 12" (305 mm) in length, and can be secured to the Base Shoe using Cladding Tape or Silicone Sealant. See page B154 for CRL Cladding Tape, CRL Silicone Sealant, and attachment instructions. Comes four pieces per set.

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

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.

CRL 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 Cladding Tape or Silicone Sealant. See page B154 for CRL Cladding Tape, CRL Silicone Sealant, and attachment instructions. Comes one per package.

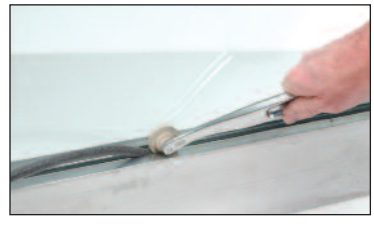
- **Adhere With Cladding Tape or Silicone Sealant**
- **Available in Six Architectural Finishes**

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 3/8" (9.5 mm) Foam Backer Rod and run a cap bead of our Cat. No. 95CBL Neutral Cure Silicone (see page B154) over it. This method is preferred in exterior installations where a more positive seal is required.

CAT. NO.	DESCRIPTION
GWFR38	Stepped Roller Tool for 3/8" (9.5 mm) Foam Backer Rod
EF38C	100' (30.5 m) Roll 3/8" (9.5 mm) Foam Backer Rod
EF38B	3600' (1097 m) Roll 3/8" (9.5 mm) Foam Backer Rod

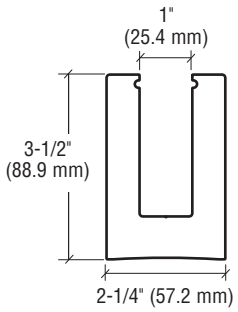
Minimum order: 1 each.

CRL B5L Series Low Profile Square Base Shoe

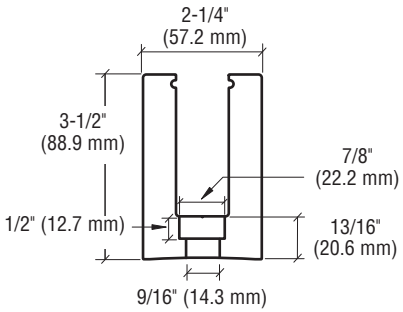
Use Only TEMPERED GLASS

- For 1/2" to 5/8" (12 to 16 mm) Monolithic Tempered Glass
- Lower Profile Desired in Residential and Yacht 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

Gasket Retention Groove Secures the Top Rubber Gasket in the Base Shoe



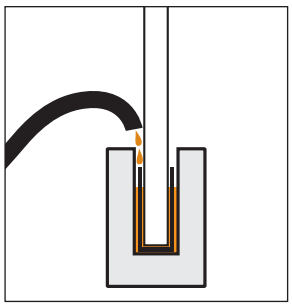
Undrilled



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

- 6063 Alloy
- T52 Temper

WET GLAZE SYSTEM ONLY



For Use with 1/2" (12 mm) to 5/8" (16 mm) Monolithic Tempered Glass

The 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 and fasteners. The five tested methods of attachment can be found on pages B132 to B133, and associated fasteners are shown on pages B156 to B157. A printed brochure with instructions, installation hints, cleaning, and refinishing techniques is available. You may also view it at **crlaurence.com**.

B5L Series Low Profile Square Base Shoe

GLASS SPECIFICATIONS:
1/2" (12 mm) to 5/8" (16 mm) Thick 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, See Pages B157 and B161.

CAT. NO.	STOCK LENGTH*	HOLE SIZE	COUNTER BORE X DEPTH	CENTER-TO-CENTER	WEIGHT
B5L10D	120" (3.05 m)	9/16" (14.3 mm)	7/8" (22.2 mm) x 1/2" (12.7 mm)	12" (305 mm)	61 pounds (28 kg)
B5L20D	240" (6.10 m)	9/16" (14.3 mm)	7/8" (22.2 mm) x 1/2" (12.7 mm)	12" (305 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)

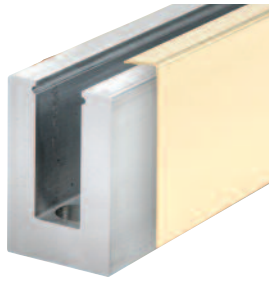
* Stock lengths have a tolerance of plus or minus 3/4" (19 mm). Minimum order: 1 each. All Base Shoe can be combined for quantity pricing. Must ship common carrier.

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 distribution 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.

CRL Cladding for B5L Series Low Profile Base Shoe

CRL 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 Cladding Tape or Silicone Sealant. See page B154 for CRL Cladding Tape, CRL Silicone Sealant, and attachment instructions. **NOTE:** Sold by individual pieces. Base Shoe requires two pieces for coverage on both sides.



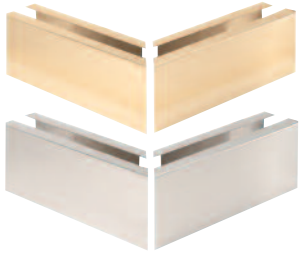
- Adhere With Cladding Tape or Silicone Sealant
- Available in Six Architectural Finishes
- Custom Cutting and Mitering Service Available

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. 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 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 Cladding Tape or Silicone Sealant. See page B154 for CRL Cladding Tape, CRL Silicone Sealant, and attachment instructions. Comes four pieces per set.



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

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.

CRL 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 Cladding Tape or Silicone Sealant. See page B154 for CRL Cladding Tape, CRL Silicone Sealant, and attachment instructions. Comes one per package.

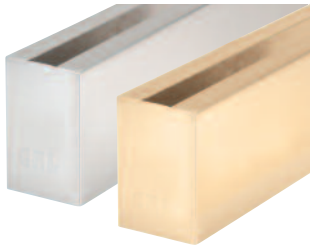
- Adhere With Cladding Tape or Silicone Sealant
- Available in Six Architectural Finishes

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.

CRL 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 Cladding Tape and/or Silicone Sealant. See page B154 for CRL Cladding Tape, CRL Silicone Sealant, and attachment instructions. Comes one per package.



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

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

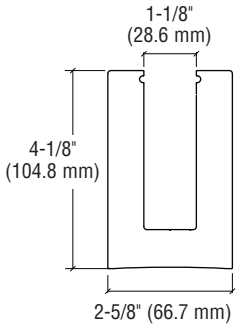
Minimum order: 1 each. All finishes can be combined for quantity pricing.

CRL B6S Series Standard Square Base Shoe

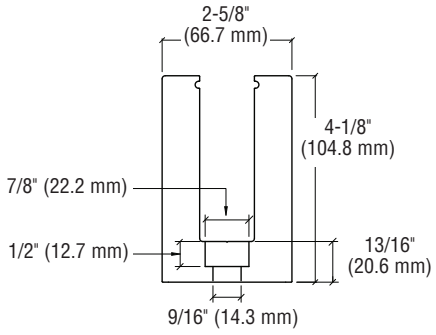
Use Only TEMPERED GLASS

new

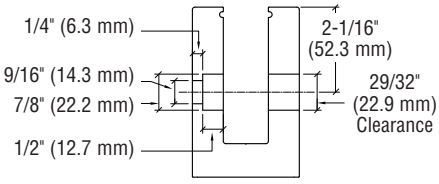
- For 15 mm Monolithic Tempered Glass
- Typically Used as the Base Channel for Glass Railing Systems
- Drilled and Counter Bored, or We Will Custom Drill to Your Specifications
- Custom Cutting and Mitering Service Available



Undrilled



Hole Pattern "D"
11-13/16" (300 mm) C.T.C.



Hole Pattern "F"
11-13/16" (300 mm) C.T.C.

Gasket Retention Groove Secures the Top Rubber Gasket in the Base Shoe

- 6063 Alloy
- T52 Temper

TAPER-LOC™ DRY GLAZE RAILING SYSTEM crlaurence.com

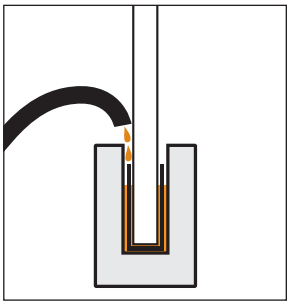
CRL B6S Series Standard Square Base Shoe is used as the base channel for glass railing systems. It can be clad in six choices of architectural finishes (see next page). The most critical component in a railing system is the proper attachment of the Base Shoe to the substrate. CRL has engineered a variety 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 B132 to B133, and associated fasteners are shown on pages B156 to B157. A printed brochure with instructions, installation hints, cleaning, and refinishing techniques is available. You may also view it at **crlaurence.com**.

TL5W10 TAPER-LOC™ Taper Sets

TAPER-LOC™ DRY GLAZE SYSTEM

For Use with TL5W10 TAPER-LOC™ Taper Sets for 15 mm Monolithic Tempered Glass

WET GLAZE SYSTEM



For Use with 15 mm Monolithic Tempered Glass

CRL B6S Series Standard Square Base Shoe

GLASS SPECIFICATION:
For use with 15 mm Thick Monolithic Tempered Glass
Meets ASTM, BSI, and DIN Tolerance Standards
Thickness Range: 14.5 mm (0.570") to 15.5 mm (0.610")

For Test Results and Drilling Recommendations, See Pages B157 and B161.

CAT. NO.	STOCK LENGTH*	HOLE SIZE	COUNTER BORE X DEPTH	CENTER-TO-CENTER	WEIGHT
B6S10D**	118-1/8" (3 m)	9/16" (14.3 mm)	7/8" (22.2 mm) x 1/2" (12.7 mm)	11-13/16" (300 mm)	86 pounds (39 kg)
B6S10F**	118-1/8" (3 m)	9/16" (14.3 mm)	7/8" (22.2 mm) x 1/2" (12.7 mm)	11-13/16" (300 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: 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.

CRL Cladding for B6S Series Square Base Shoe

CRL Straight Cladding for B6S Series Square Base Shoe

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

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 Cladding Tape or Silicone Sealant. See page B154 for CRL Cladding Tape, CRL Silicone Sealant, and attachment instructions. **NOTE:** Sold by individual pieces. Base Shoe requires two pieces for coverage on both sides.

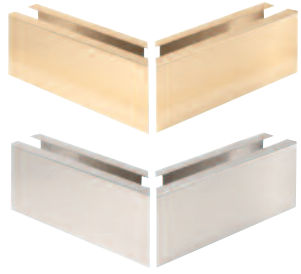
CAT. NO.	GRADE	GA./THK.	LENGTH	FINISH
BSCBS10	304	20/.035"	120" (3.05 m)	Brushed Stainless
BSCPS10	304	20/.035"	120" (3.05 m)	Polished Stainless
BSCPB10	C260	.045"	120" (3.05 m)	Polished Brass
BSCSB10	C260	.045"	120" (3.05 m)	Satin Brass
BSCSA10	5052	.050"	120" (3.05 m)	Satin Anodized
BSCDU10	5052	.050"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

Minimum order: 1 each. 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 12" Mitered Corner Cladding for B6S Series Square Base Shoe

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

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 Cladding Tape or Silicone Sealant. See page B154 for CRL Cladding Tape, CRL Silicone Sealant, and attachment instructions. Comes four pieces per set.



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
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.

CRL End Caps for B6S Series Square Base Shoe

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

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 Cladding Tape or Silicone Sealant. See page B154 for CRL Cladding Tape, CRL Silicone Sealant, and attachment instructions. Comes one per package.

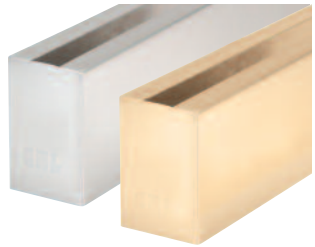
CAT. NO.	GRADE	GA./THK.	FINISH
B6SECBS	304	20/.035"	Brushed Stainless
B6SECPS	304	20/.035"	Polished Stainless
B6SECPB	C260	.045"	Polished Brass
B6SECSB	C260	.045"	Satin Brass
B6SECSA	5052	.050"	Satin Anodized
B6SECDU	5052	.050"	Dark Bronze Anodized

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

CRL 12" Welded End Cladding for B6S Series Square Base Shoe

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

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 Cladding Tape and/or Silicone Sealant. See page B154 for CRL Cladding Tape, CRL Silicone Sealant, and attachment instructions. Comes one per package.



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

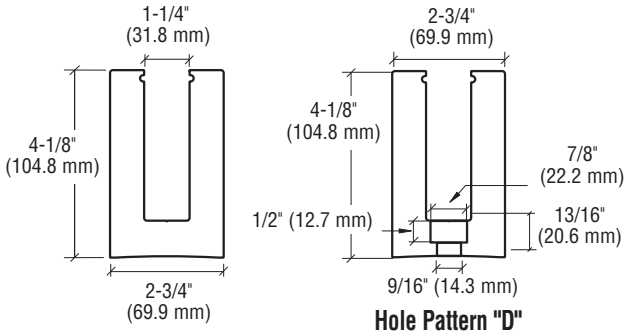
Minimum order: 1 each. All finishes can be combined for quantity pricing.

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

Use Only TEMPERED GLASS

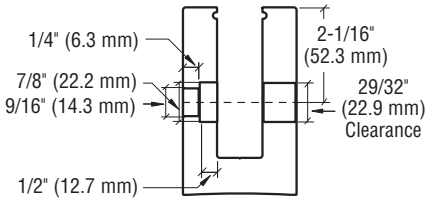
Gasket Retention Groove Secures the Top Rubber Gasket in the Base Shoe



Undrilled

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

- 6063 Alloy
- T52 Temper



Hole Pattern "F"
12" (305 mm) C.T.C.

TAPER-LOC™ DRY GLAZE RAILING SYSTEM crlaurence.com

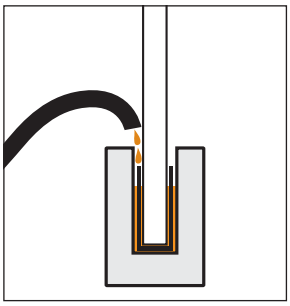
The CRL B7S Series Heavy-Duty Square Base Shoe is used as the base channel for glass railing systems. It can be clad in six choices of architectural finishes (see next page). The most critical component in a railing system is the proper attachment of the Base Shoe to the substrate. CRL has engineered 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 B132 to B133, and associated fasteners are shown on pages B156 to B157. A printed brochure with instructions, installation hints, cleaning, and refinishing techniques is available. You may also view it at **crlaurence.com**.

TL5W10 TAPER-LOC™ Taper Sets

TAPER-LOC™ DRY GLAZE SYSTEM

For Use with TL5W10 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

B7S Series Heavy-Duty Square Base Shoe

For Test Results and Drilling Recommendations, See Pages B157 and B161.

GLASS SPECIFICATON:
3/4" (19 mm) Thick Glass when using TAPER-LOC™ Dry Glaze System or Wet Glaze System.

CAT. NO.	STOCK LENGTH*	HOLE SIZE	COUNTER BORE X DEPTH	CENTER-TO-CENTER	WEIGHT
B7S10D	120" (3.05 m)	9/16" (14.3 mm)	7/8" (22.2 mm) x 1/2" (12.7 mm)	12" (305 mm)	86 pounds (39 kg)
B7S20D	240" (6.10 m)	9/16" (14.3 mm)	7/8" (22.2 mm) x 1/2" (12.7 mm)	12" (305 mm)	172 pounds (78 kg)
B7S10F	120" (3.05 m)	9/16" (14.3 mm)	7/8" (22.2 mm) x 1/2" (12.7 mm)	12" (305 mm)	86 pounds (39 kg)
B7S20F	240" (6.10 m)	9/16" (14.3 mm)	7/8" (22.2 mm) x 1/2" (12.7 mm)	12" (305 mm)	172 pounds (78 kg)
B7S10	120" (3.05 m)	-	ΔExtrusion Only (Without Holes)	-	86 pounds (39 kg)
B7S20	240" (6.10 m)	-	ΔExtrusion Only (Without Holes)	-	172 pounds (78 kg)

* 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 distribution 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.

CRL Cladding for B7S Series Heavy-Duty Square Base Shoe

CRL Straight Cladding for 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 Cladding Tape or Silicone Sealant. See page B154 for CRL Cladding Tape, CRL Silicone Sealant, and attachment instructions. **NOTE:** Sold by individual pieces. Base Shoe requires two pieces for coverage on both sides.

- Adhere With Cladding Tape or Silicone Sealant
- Available in Six Architectural Finishes
- 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
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. 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 12" Mitered Corner Cladding for 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 Cladding Tape or Silicone Sealant. See page B154 for CRL Cladding Tape, CRL Silicone Sealant, and attachment instructions. Comes four pieces per set.

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

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
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.

CRL End Caps for B7S Series Heavy-Duty Square 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 Cladding Tape or Silicone Sealant. See page B154 for CRL Cladding Tape, CRL Silicone Sealant, and attachment instructions. Comes one per package.

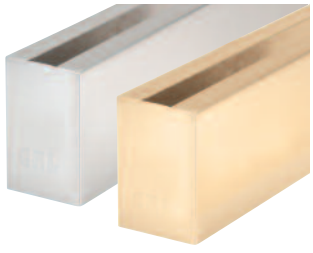
- Adhere With Cladding Tape or Silicone Sealant
- Available in Six Architectural Finishes

CAT. NO.	GRADE	GA./THK.	FINISH
B7SECBS	304	20/.035"	Brushed Stainless
B7SECPS	304	20/.035"	Polished Stainless
B7SECPB	C260	.045"	Polished Brass
B7SECSB	C260	.045"	Satin Brass
B7SECSA	5052	.050"	Satin Anodized
B7SECDU	5052	.050"	Dark Bronze Anodized

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

CRL 12" Welded End Cladding for 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 Cladding Tape and/or Silicone Sealant. See page B154 for CRL Cladding Tape, CRL Silicone Sealant, and attachment instructions. Comes one per package.



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

CAT. NO.	GRADE	GA./THK.	FINISH
B7SWCBS	304	20/.035"	Brushed Stainless
B7SWCPS	304	20/.035"	Polished Stainless
B7SWCPB	C260	.045"	Polished Brass
B7SWCSB	C260	.045"	Satin Brass

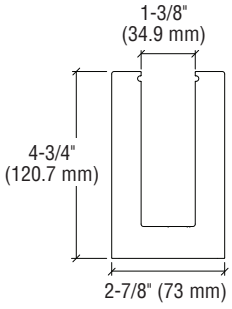
Minimum order: 1 each. All finishes can be combined for quantity pricing.

CRL L56S Series Laminated Square Base Shoe

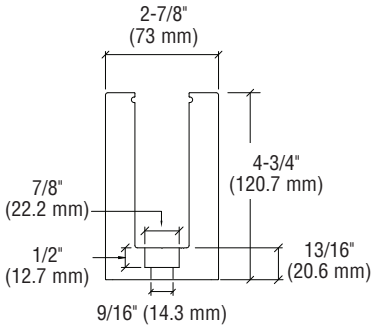
new

Use Only LAMINATED TEMPERED GLASS

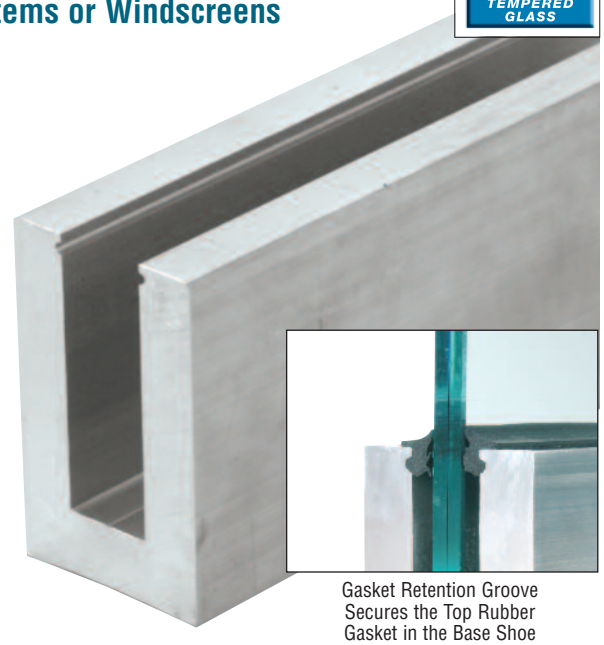
- For 9/16" (13.52 mm) Laminated Tempered Glass (1/4" x .060 x 1/4")
- Typically Used as the Base Channel for Glass Railing Systems or Windscreens
- Works With LTL96 TAPER-LOC™ Taper Sets
- Custom Cutting and Mitering Service Available
- Engineering Reports Available

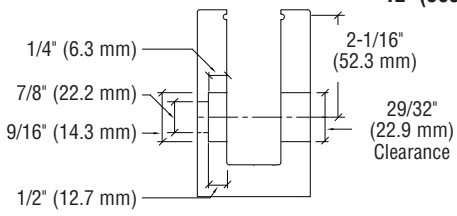


Undrilled



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


Gasket Retention Groove Secures the Top Rubber Gasket in the Base Shoe



Hole Pattern "F"
12" (305 mm) C.T.C.

- 6063 Alloy
- T52 Temper

TAPER-LOC™ DRY GLAZE RAILING SYSTEM crlaurence.com

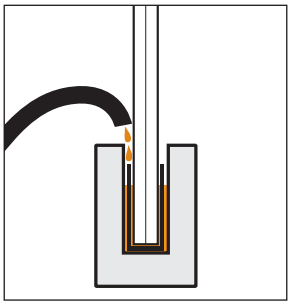
The CRL L56S Series Laminated Square Base Shoe is used as the base channel for glass railing systems. It can be clad in four choices of architectural finishes (see next page). The most critical component in a railing system is the proper attachment of the Base Shoe to the substrate. CRL has engineered 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 B132 to B133, and associated fasteners are shown on pages B156 to B157. A printed brochure with instructions, installation hints, cleaning, and refinishing techniques is available. You may also view it at **crlaurence.com**.

LTL96 TAPER-LOC™ Taper Sets

TAPER-LOC™ DRY GLAZE SYSTEM

For Use with LTL96 TAPER-LOC™ Taper Sets for 9/16" (13.52 mm) Laminated Tempered Glass

WET GLAZE SYSTEM


For Use with 9/16" (13.52 mm) Laminated Tempered Glass

CRL L56S Series Laminated Square Base Shoe

GLASS SPECIFICATION:
For use with 9/16" (13.52 mm) Laminated Tempered Glass (1/4" x .060" x 1/4")
Thickness Range 0.497" (12.62 mm) to 0.549" (13.94 mm)

For Test Results and Drilling Recommendations, Visit **crlaurence.com**.

CAT. NO.	STOCK LENGTH*	HOLE SIZE	COUNTER BORE X DEPTH	CENTER-TO-CENTER	WEIGHT
L56S10D**	120" (3.05 m)	9/16" (14.3 mm)	7/8" (22.2mm x 1/2" 12.7mm)	12" (305 mm)	86 pounds (39 kg)
L56S10F**	120" (3.05 m)	9/16" (14.3 mm)	7/8" (22.2mm x 1/2" 12.7mm)	12" (305 mm)	86 pounds (39 kg)
L56S10	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.

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.

CRL Cladding for L56S Series Laminated Square Base Shoe

CRL Straight Cladding for L56S Series Laminated Square Base Shoe

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

new

CRL Cladding for L56S Series Base Shoe is available in four architectural finishes. It can be secured to the Base Shoe using Cladding Tape or Silicone Sealant. See page B154 for CRL Cladding Tape, CRL Silicone Sealant, and attachment instructions.
NOTE: Sold by individual pieces. Base Shoe requires two pieces for coverage on both sides.

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
LBSCPB10	C260	.045"	118-1/8" (3 m)	Polished Brass
LBSCSB10	C260	.045"	118-1/8" (3 m)	Satin Brass

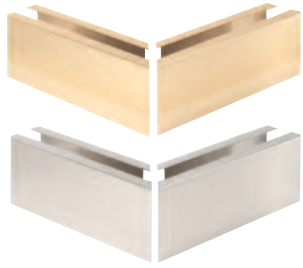
Minimum order: 1 each. All finishes can be combined for quantity pricing. Standard stock lengths are 118" (3 m). Custom lengths up to 168" (4.26 m) are available on special order. Must ship common carrier.

CRL 12" Mitered Corner Cladding for L56S Series Laminated Square Base Shoe

- 90 Degree and 135 Degree Corner Set
- Adhere With Cladding Tape or Silicone Sealant
- Available in Four Architectural Finishes

new

CRL Mitered Corner Cladding for L56S 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 or Silicone Sealant. See page B154 for CRL Cladding Tape, CRL Silicone Sealant, and attachment instructions. Comes four pieces per set.



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.

CRL End Caps for L56S Series Laminated Square Base Shoe

- Adhere With Cladding Tape or Silicone Sealant
- Available in Four Architectural Finishes

new

CRL End Caps are available in four architectural finishes. They can be secured to the Base Shoe using Cladding Tape or Silicone Sealant. See page B154 for CRL Cladding Tape, CRL Silicone Sealant, and attachment instructions. Comes one per package.

CAT. NO.	GRADE	GA./THK.	FINISH
L56SECBS	316	20/.035"	Brushed Stainless
L56SECPS	316	20/.035"	Polished Stainless
L56SECPB	C260	.045"	Polished Brass
L56SECSB	C260	.045"	Satin Brass

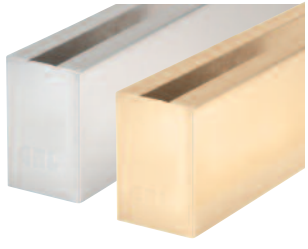
Minimum order: 1 each. All finishes can be combined for quantity pricing.

CRL 12" Welded End Cladding for L56S Series Laminated Square Base Shoe

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

new

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 Cladding Tape and/or Silicone Sealant. See page B154 for CRL Cladding Tape, CRL Silicone Sealant, and attachment instructions. Comes one per package.



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

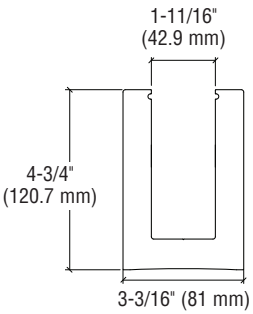
Minimum order: 1 each. All finishes can be combined for quantity pricing.

CRL L21S Series Laminated Square Base Shoe

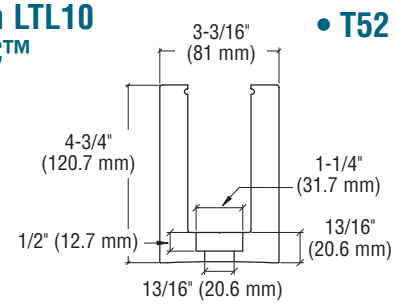
new

Use Only LAMINATED TEMPERED GLASS

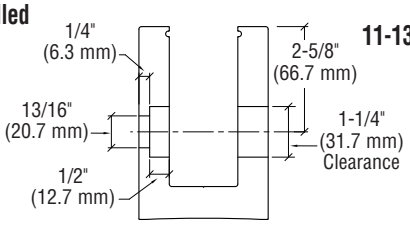
- For 27/32" (21.52 mm) Laminated Tempered Glass (10 mm x 1.52 mm x 10 mm)
- Typically Used as the Base Channel for Laminated Glass Railing Systems
- Drilled and Counter Bored, or We Will Custom Drill to Your Specifications
- Custom Cutting and Mitering Service Available
- 6063 Alloy
- T52 Temper
- Works With LTL10 TAPER-LOC™ Taper Sets



Undrilled



Hole Pattern "D"
11-13/16" (300 mm) C.T.C.



Hole Pattern "F"
11-13/16" (300 mm) C.T.C.

Gasket Retention Groove Secures the Top Rubber Gasket in the Base Shoe

TAPER-LOC™ DRY GLAZE RAILING SYSTEM crlaurence.com

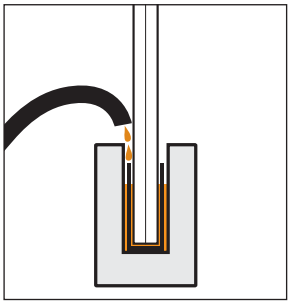
The CRL L21S Series Laminated Square Base Shoe is used as the base channel for glass railing systems. It can be clad in four choices of architectural finishes (see next page). The most critical component in a railing system is the proper attachment of the Base Shoe to the substrate. CRL has engineered 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 B132 to B133, and associated fasteners are shown on pages B156 to B157. A printed brochure with instructions, installation hints, cleaning, and refinishing techniques is available. You may also view it at **crlaurence.com**.

LTL10 TAPER-LOC™ Taper Sets

TAPER-LOC™ DRY GLAZE SYSTEM

For Use with LTL10 TAPER-LOC™ Taper Sets for 27/32" (21.52 mm) Laminated Tempered Glass

WET GLAZE SYSTEM



For Use with 27/32" (21.52 mm) Laminated Tempered Glass

CRL L21S Series Laminated Square Base Shoe

GLASS SPECIFICATION:
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" glass

For Test Results and Drilling Recommendations, Visit **crlaurence.com**.

CAT. NO.	STOCK LENGTH*	HOLE SIZE	COUNTER BORE X DEPTH	CENTER-TO-CENTER	WEIGHT
L21S10D**	118-1/8" (3 m)	9/16" (14.3 mm)	1-1/4" (31.7 mm) x 1/2" (12.7 mm)	11-13/16" (300 mm)	86 pounds (39 kg)
L21S10F**	118-1/8" (3 m)	9/16" (14.3 mm)	1-1/4" (31.7 mm) x 1/2" (12.7 mm)	11-13/16" (300 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.

CRL Cladding for L21S Series Laminated Square Base Shoe

CRL Straight Cladding for L21S Series Laminated Square Base Shoe

CRL Cladding for L21S Series Base Shoe is available in four architectural finishes. It can be secured to the Base Shoe using Cladding Tape or Silicone Sealant. See page B154 for CRL Cladding Tape, CRL Silicone Sealant, and attachment instructions.
NOTE: Sold by individual pieces. Base Shoe requires two pieces for coverage on both sides.

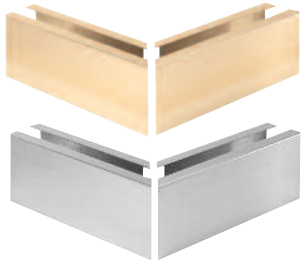
- Adhere With Cladding Tape or Silicone Sealant
- Available in Four Architectural Finishes
- Custom Cutting and Mitering Service Available

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
LBSCPB10	C260	.045"	118-1/8" (3 m)	Polished Brass
LBSCSB10	C260	.045"	118-1/8" (3 m)	Satin Brass

Minimum order: 1 each. All finishes can be combined for quantity pricing. Standard stock lengths are 118" (3 m). Custom lengths up to 168" (4.26 m) are available on special order. Must ship common carrier.

CRL 12" Mitered Corner Cladding for L21S Series Laminated Square Base Shoe

CRL Mitered Corner Cladding for 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 Cladding Tape or Silicone Sealant. See page B154 for CRL Cladding Tape, CRL Silicone Sealant, and attachment instructions. Comes four pieces per set.



- 90 Degree and 135 Degree Corner Set
- Adhere With Cladding Tape or Silicone Sealant
- Available in Four Architectural Finishes

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.

CRL End Caps for L21S Series Laminated Square Base Shoe

CRL End Caps are available in four architectural finishes. They can be secured to the Base Shoe using Cladding Tape or Silicone Sealant. See page B154 for CRL Cladding Tape, CRL Silicone Sealant, and attachment instructions. Comes one per package.

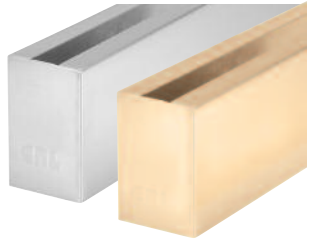
- Adhere With Cladding Tape or Silicone Sealant
- Available in Four Architectural Finishes

CAT. NO.	GRADE	GA./THK.	FINISH
L21SECBS	316	20/.035"	Brushed Stainless
L21SECPS	316	20/.035"	Polished Stainless
L21SECPB	C260	.045"	Polished Brass
L21SECSB	C260	.045"	Satin Brass

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

CRL 12" Welded End Cladding for 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 Cladding Tape and/or Silicone Sealant. See page B154 for CRL Cladding Tape, CRL Silicone Sealant, and attachment instructions. Comes one per package.



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

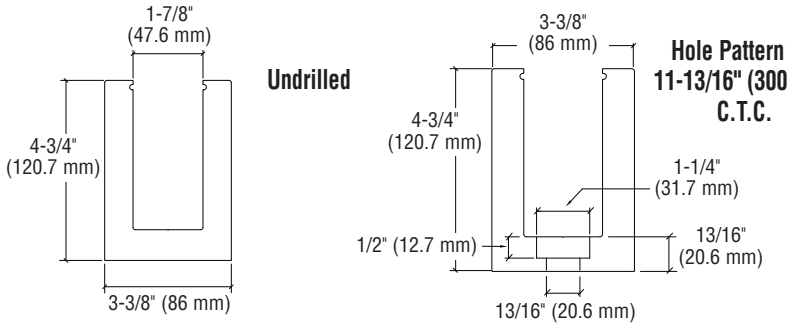
CAT. NO.	GRADE	GA./THK.	FINISH
L21WECBS	316	20/.035"	Brushed Stainless
L21WECPS	316	20/.035"	Polished Stainless
L21WECPB	C260	.045"	Polished Brass
L21WECSB	C260	.045"	Satin Brass

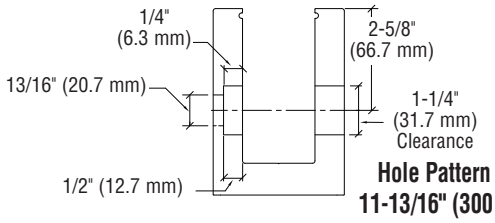
Minimum order: 1 each. All finishes can be combined for quantity pricing.

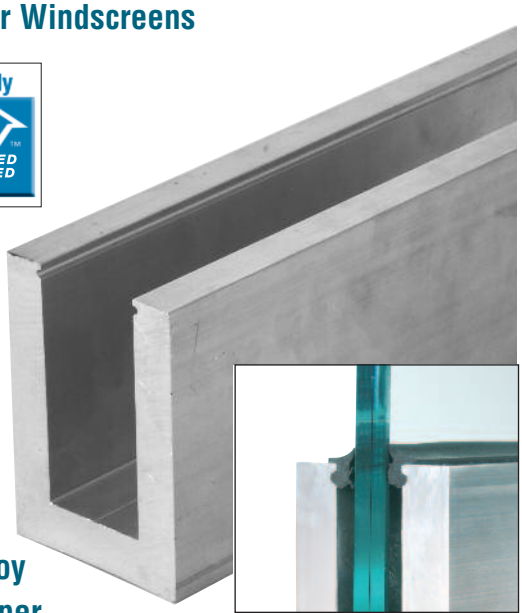
CRL L25S Series Heavy-Duty Laminated Square Base Shoe new

- For 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)
- Typically Used as the Base Channel for Glass Railing Systems or Windscreens
- Works With LTL10 TAPER-LOC™ Taper Sets
- Custom Cutting and Mitering Service Available
- Engineering Reports Available

Use Only LAMINATED TEMPERED GLASS







- 6063 Alloy
- T52 Temper

Gasket Retention Groove Secures the Top Rubber Gasket in the Base Shoe

TAPER-LOC™ DRY GLAZE RAILING SYSTEM
crlaurence.com
Patent Pending

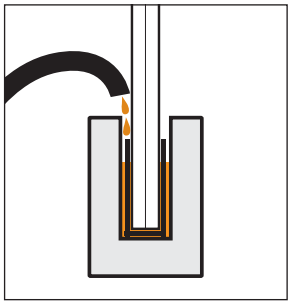
The CRL L25S Series Laminated Square Base Shoe is used as the base channel for glass railing systems. It can be clad in four choices of architectural finishes (see next page). The most critical component in a railing system is the proper attachment of the Base Shoe to the substrate. CRL has engineered 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 B132 and B133, and associated fasteners are shown on pages B156 and B157. A printed brochure with instructions, installation hints, cleaning, and refinishing techniques is available. You may also view it at **crlaurence.com**.

LTL10 TAPER-LOC™ Taper Sets

TAPER-LOC™ DRY GLAZE SYSTEM

For Use with LTL10 TAPER-LOC™ Taper Sets for 1-1/16" (25.52 mm) Laminated Tempered Glass

WET GLAZE SYSTEM



For Use with 1-1/16" (25.52 mm) Laminated Tempered Glass

CRL L25S Series Heavy-Duty Laminated Square Base Shoe

GLASS SPECIFICATION:
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" Monolithic Tempered Glass
Will not accommodate the full ASTM thickness range for 1-1/16" glass

For Test Results and Drilling Recommendations, See **crlaurence.com**.

CAT. NO.	STOCK LENGTH*	HOLE SIZE	COUNTER BORE X DEPTH	CENTER-TO-CENTER	WEIGHT
L25S10D**	118-1/8" (3 m)	13/16" (20.6 mm)	1-1/4" (31.7 mm) x 1/2" (12.7 mm)	11-13/16" (300 mm)	86 pounds (39 kg)
L25S10F**	118-1/8" (3 m)	13/16" (20.6 mm)	1-1/4" (31.7 mm) x 1/2" (12.7 mm)	11-13/16" (300 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.

CRL Cladding for L25S Series Laminated Square Base Shoe

CRL Straight Cladding for L25S Series Laminated Square Base Shoe

CRL Cladding for L25S Series Base Shoe is available in four architectural finishes. It can be secured to the Base Shoe using Cladding Tape or Silicone Sealant. See page B154 for CRL Cladding Tape, CRL Silicone Sealant, and attachment instructions. **NOTE:** Sold by individual pieces. Base Shoe requires two pieces for coverage on both sides.

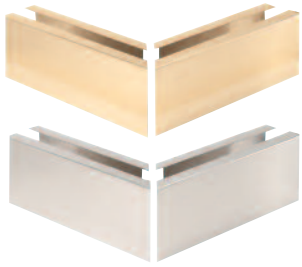
- Adhere With Cladding Tape or Silicone Sealant
- Available in Four Architectural Finishes
- Custom Cutting and Mitering Service Available

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
LBSCPB10	C260	.045"	118-1/8" (3 m)	Polished Brass
LBSCSB10	C260	.045"	118-1/8" (3 m)	Satin Brass

Minimum order: 1 each. All finishes can be combined for quantity pricing. Standard stock lengths are 118" (3 m). Custom lengths up to 168" (4.26 m) are available on special order. Must ship common carrier.

CRL 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 Cladding Tape or Silicone Sealant. See page B154 for CRL Cladding Tape, CRL Silicone Sealant, and attachment instructions. Comes four pieces per set.



- 90 Degree and 135 Degree Corner Set
- Adhere With Cladding Tape or Silicone Sealant
- Available in Four Architectural Finishes

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.

CRL End Caps for L25S Series Laminated Square Base Shoe

CRL End Caps are available in four architectural finishes. They can be secured to the Base Shoe using Cladding Tape or Silicone Sealant. See page B154 for CRL Cladding Tape, CRL Silicone Sealant, and attachment instructions. Comes one per package.

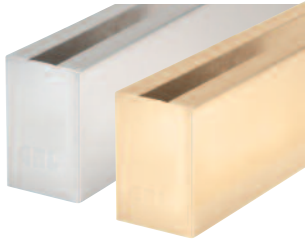
- Adhere With Cladding Tape or Silicone Sealant
- Available in Four Architectural Finishes

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

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

CRL 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 Cladding Tape and/or Silicone Sealant. See page B154 for CRL Cladding Tape, CRL Silicone Sealant, and attachment instructions. Comes one per package.



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

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.

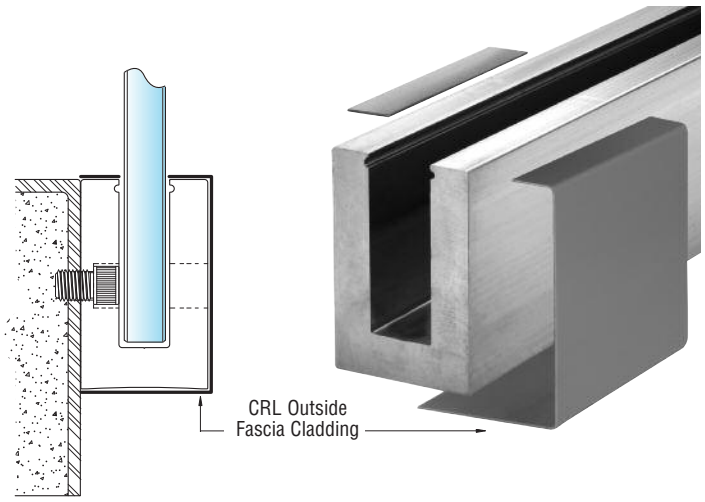
CRL Fascia Cladding for CRL's Monolithic Base Shoes

new

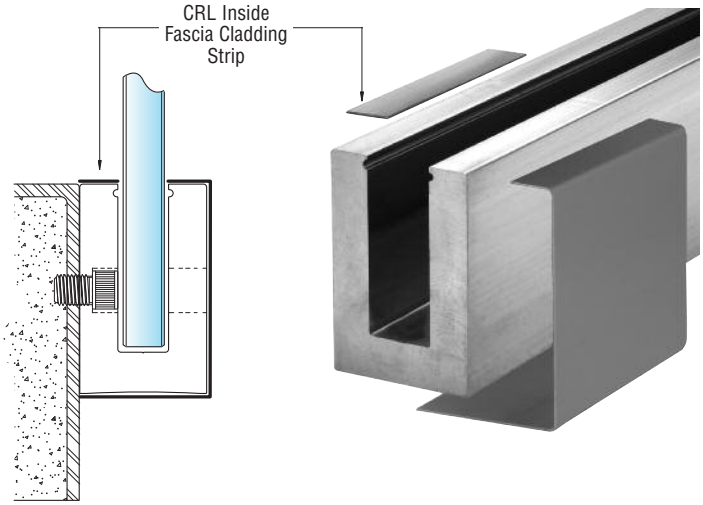
- Designed for CRL Monolithic Glass Base Shoes
- Adhere With Cladding Tape or Silicone Sealant
- Available in Six Architectural Finishes
- Custom Cutting and Mitering Services Available

CRL Fascia Cladding is offered for applications where the Base Shoe is installed to the side edge 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. See page B154 for CRL Cladding Tape, CRL Silicone Sealant, and attachment instructions.

CRL Outside Fascia Cladding



CRL Inside Fascia Cladding Strip



B5S SERIES 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. Stock lengths are 120" (3.05 m). Custom lengths up to 168" (4.26 m) are available on special order.

B5S SERIES 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. Stock lengths are 120" (3.05 m). Custom lengths up to 168" (4.26 m) are available on special order.

B6S SERIES 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. Stock lengths are 120" (3.05 m). Custom lengths up to 168" (4.26 m) are available on special order.

B6S SERIES INSIDE FASICA CLADDING STRIP

CAT. NO.	GRADE	GA./THK.	LENGTH	FINISH
B6C1FBS	304	20/.035"	120" (3.05 m)	Brushed Stainless
B6C1FPS	304	20/.035"	120" (3.05 m)	Polished Stainless
B6C1FPB	C260	.045"	120" (3.05 m)	Polished Brass
B6C1FSB	C260	.045"	120" (3.05 m)	Satin Brass
B6C1FSA	5052	.050"	120" (3.05 m)	Satin Anodized
B6C1FDU	5052	.050"	120" (3.05 m)	Dark Bronze Anodized

Minimum order: 1 each. All finishes can be combined for quantity pricing. Stock lengths are 120" (3.05 m). Custom lengths up to 168" (4.26 m) are available on special order.

B7S SERIES 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. Stock lengths are 120" (3.05 m). Custom lengths up to 168" (4.26 m) are available on special order.

B7S SERIES INSIDE FASCIA CLADDING STRIP

CAT. NO.	GRADE	GA./THK.	LENGTH	FINISH
B7C1FBS	304	20/.035"	120" (3.05 m)	Brushed Stainless
B7C1FPS	304	20/.035"	120" (3.05 m)	Polished Stainless
B7C1FPB	C260	.045"	120" (3.05 m)	Polished Brass
B7C1FSB	C260	.045"	120" (3.05 m)	Satin Brass
B7C1FSA	5052	.050"	120" (3.05 m)	Satin Anodized
B7C1FDU	5052	.050"	120" (3.05 m)	Dark Bronze Anodized

Minimum order: 1 each. All finishes can be combined for quantity pricing. Stock lengths are 120" (3.05 m). Custom lengths up to 168" (4.26 m) are available on special order.

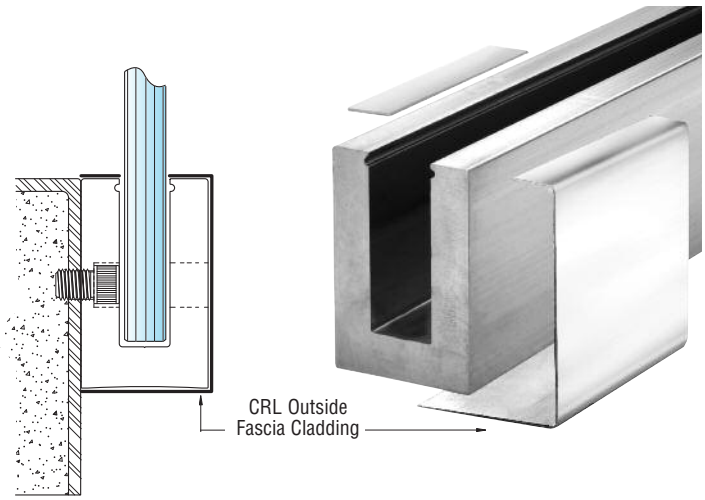
CRL Fascia Cladding for CRL's Laminated Base Shoes

new

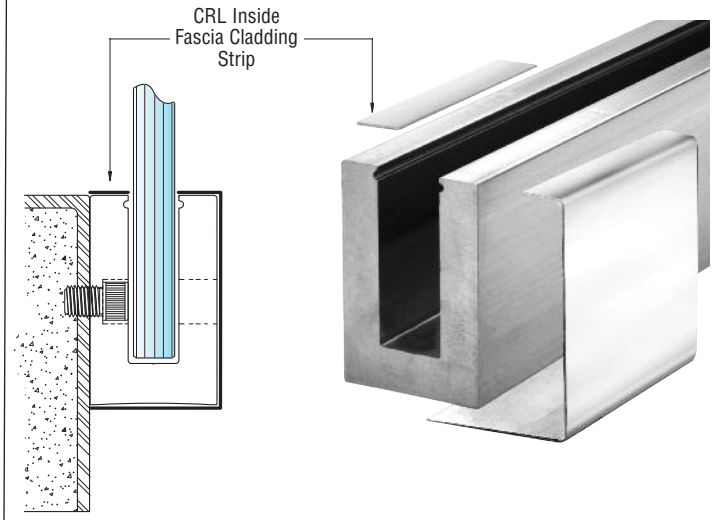
- Designed for CRL Laminated Glass Base Shoes
- Adhere With Cladding Tape or Silicone Sealant
- Available in Four Architectural Finishes
- Custom Cutting and Mitering Services Available

CRL Fascia Cladding is offered for applications where the Base Shoe is installed to the side edge 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. See page B154 for CRL Cladding Tape, CRL Silicone Sealant, and attachment instructions.

CRL Outside Fascia Cladding



CRL Inside Fascia Cladding Strip



L56S SERIES 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. Stock lengths are 120" (3.05 m). Custom lengths up to 168" (4.26 m) are available on special order.

L56S SERIES 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. Stock lengths are 120" (3.05 m). Custom lengths up to 168" (4.26 m) are available on special order.

L21S SERIES 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. Stock lengths are 118-1/8" (3 m). Custom lengths up to 168" (4.26 m) are available on special order.

L21S SERIES INSIDE FASCIA CLADDING STRIP

CAT. NO.	GRADE	GA./THK.	LENGTH	FINISH
L21C1FBS	316	20/.035"	118-1/8" (3 m)	Brushed Stainless
L21C1FPS	316	20/.035"	118-1/8" (3 m)	Polished Stainless
L21C1FPB	C260	.045"	118-1/8" (3 m)	Polished Brass
L21C1FSB	C260	.045"	118-1/8" (3 m)	Satin Brass

Minimum order: 1 each. All finishes can be combined for quantity pricing. Stock lengths are 118-1/8" (3 m). Custom lengths up to 168" (4.26 m) are available on special order.

L25S SERIES 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. Stock lengths are 118-1/8" (3 m). Custom lengths up to 168" (4.26 m) are available on special order.

L25S SERIES INSIDE FASCIA CLADDING STRIP

CAT. NO.	GRADE	GA./THK.	LENGTH	FINISH
L25C1FBS	316	20/.035"	118-1/8" (3 m)	Brushed Stainless
L25C1FPS	316	20/.035"	118-1/8" (3 m)	Polished Stainless
L25C1FPB	C260	.045"	118-1/8" (3 m)	Polished Brass
L25C1FSB	C260	.045"	118-1/8" (3 m)	Satin Brass

Minimum order: 1 each. All finishes can be combined for quantity pricing. Stock lengths are 118-1/8" (3 m). Custom lengths up to 168" (4.26 m) are available on special order.

CRL Cladding and Fabrication Services

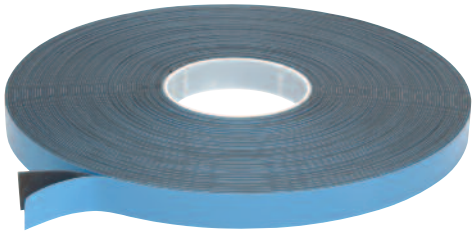
- **Metal Fabricated to Your Specifications**
- **Available in Many Architectural Finishes**

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 **crlaurence.com**. From the home page click on Contact Us, and then click on Technical Sales for Railing Products.

CRL Cladding Tape

- **Pressure Sensitive High-Strength Adhesive With Tenacious Holding Power**
- **Used for Adhering Cladding to Base Shoe**

Our AT234 Cladding Tape is used to adhere cladding to Base Shoe. Made of a high strength 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' (32.9 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**

CAT. NO.	COLOR	CONTENTS	CTGS/CASE
95CBL	Black	10.3 Fl. Oz. (304 ml)	30

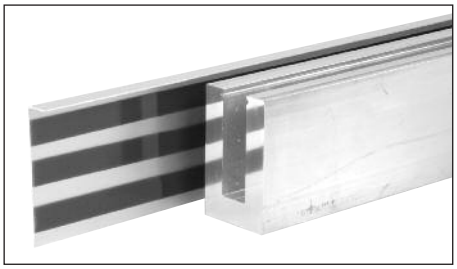
Minimum order: 1 each. All cartridge sealants can be combined for quantity pricing. Also available in 2 or 4.5 gallon pails.

Use our 95CBL Silicone to adhere Cladding to Base Shoe and Cap Rail to glass. Neutral cure for use with brass material to avoid adverse reactions. Best 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 B139).

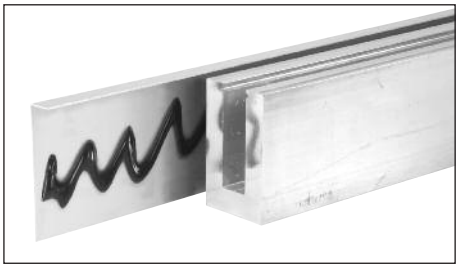
For our complete selection of CRL Silicones visit our web site at **crlaurence.com**.

Application Suggestions for CRL Cladding

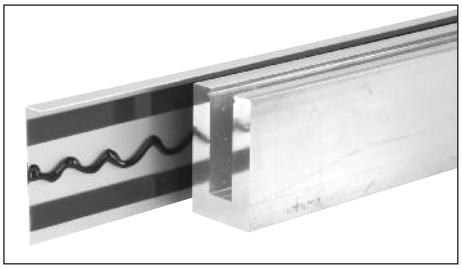
There are various methods of attaching the Cladding to the Base Shoe. All three types shown below will work, but a combination of Cladding Tape and Neutral Cure Silicone (Type C) offers the best of two worlds; the instant bond of the tape along with the speed of application of the silicone and its flexible, durable adhesion. We invite you to contact CRL Technical Sales to discuss your individual application.



Type A: Apply three rows of Tape to the vertical edge of the Cladding. Carefully align the Cladding to the Base Shoe and press in place.



Type B: Apply Silicone to the vertical edge 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.



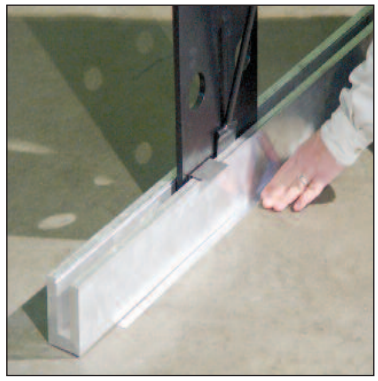
Type C: Apply two rows of Tape to the vertical edge of the Cladding, one toward the top and one toward the bottom. Apply the Silicone between the rows of Tape. Carefully align the Cladding to the Base Shoe and press in place.

CRL GRS BASE SHOE FOR GLASS RAILING SYSTEMS

For Pricing Visit Our Web Site or Call Us Toll Free at the Phone Numbers Shown on the Back Cover

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**



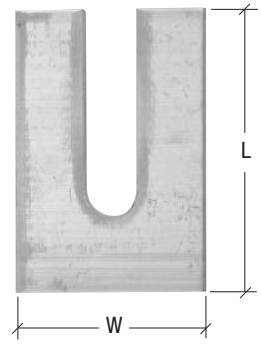
CRL Aluminum Shim Strips are used under one side of the Base Shoe to adjust it into a plumb position before securing it with the fasteners. Length can be trimmed as required for an exact fit.

CAT. NO.	THICKNESS	WIDTH	LENGTH	QTY/PKG
BSS164	1/64" (0.4 mm)	3/4" (19 mm)	24" (610 mm)	10
BSS132	1/32" (0.8 mm)	3/4" (19 mm)	24" (610 mm)	10
BSS116	1/16" (1.6 mm)	3/4" (19 mm)	24" (610 mm)	10

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.

CAT. NO.	THICKNESS	"W" WIDTH	"L" LENGTH	QTY/PKG
AHS66	1/16" (1.6 mm)	2" (51 mm)	3" (76 mm)	100
AHS68	1/8" (3.2 mm)	2" (51 mm)	3" (76 mm)	100
AHS64	1/4" (6.3 mm)	2" (51 mm)	3" (76 mm)	100

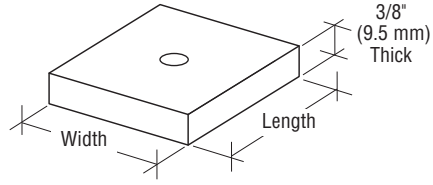
Minimum order: 100 each. Must be ordered in increments of 100. Sizes can be combined for quantity pricing.

CRL Drain Blocks

- **Placed Under Base Shoe to Provide Drainage Space**
- **Great for Balconies and Decks**
- **Four Sizes to Fit All CRL Base Shoe Series**

- **Clear Anodized Finish**

Place CRL Aluminum Drain Blocks under exterior installed Base Shoe to provide drainage space for water run-off. This is especially important where the Base Shoe will be installed on balconies or decks where water could dam up unless proper drainage is available. One Drain Block should be placed under each mounting hole. Blocks can be rotated to fit different width Base Shoe.



CAT. NO.	THICKNESS	WIDTH	LENGTH	WORKS WITH	QTY/PKG
BSDB38	3/8" (9.5 mm)	2-1/2" (64 mm)	2-1/4" (57 mm)	B5S, B5T, B5L Base Shoe	10
BSDB58	3/8" (9.5 mm)	2-5/8" (67 mm)	2-7/8" (73 mm)	B6S, L56S Base Shoe	10
BSDB34	3/8" (9.5 mm)	2-3/4" (70 mm)	2-1/2" (64 mm)	B7S Base Shoe	10
LSDB21	3/8" (9.5 mm)	3-1/4" (83 mm)	3" (76 mm)	L21S, L25S Base Shoe	10

Minimum order: 1 package.

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

CRL has made every effort to improve the installation process, and to 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 B157).

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.

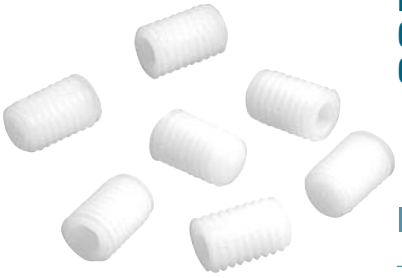
First of all, a magnetic base drill press is required to apply enough pressure to the drill bit for it to drill properly. Then after drilling through the steel, the drill bit comes in contact with the concrete and is dulled after only one use. Next you must drill a clearance hole in the concrete with 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 B157). 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.

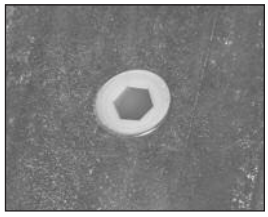
After Installation Corrective Solution: If the steel attachments are installed in the concrete without the holes being drilled and tapped, the only simple corrective action that can be done is to use CRL Weld Blocks. This is really an easy solution and is often the preferred way to install the Base Shoe. By attaching the CRL Weld Blocks (see below) to the Base Shoe with Socket Head Cap Screws (see page B157), 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

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.



- **Protect Threaded Holes From Concrete Contamination**



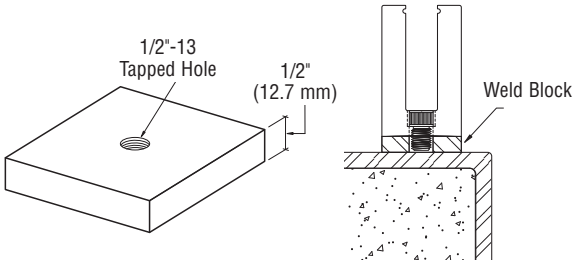
CAT. NO.	DESCRIPTION	QTY/CARTON
NAS12X1	1/2"-13 x 1" (25.4 mm) Nylon Allen Screws	100

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

CRL Weld Blocks

Weld Blocks are manufactured for use with the CRL Base Shoes. When welded to a structurally sound steel beam or angle, they provide an attachment point using our pre-drilled Base Shoes and our Cat. No. SHCS12X34 Stainless Steel Socket Head Cap Screws (see page B157). A favorite technique is to attach the Weld Blocks to the Base Shoe, set it in the proper position, and then weld the Weld Blocks to the beam, angle, or embedment plate. Weld Blocks are made of hot rolled steel with a centered 1/2"-13 tapped hole.

- **Fabricated and Ready to Weld**
- **Eliminates the Need for Drilling and Tapping on Job Site**

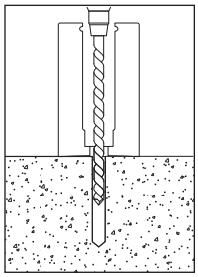


CAT. NO.	DESCRIPTION	QTY/PACK
BSWB12	2-1/2" (63.5 mm) x 2-1/4" (57.2 mm) x 1/2" (12.7 mm) Use with B5S, B5T, B5L Series Base Shoe	10
BSWB712	2-1/2" (63.5 mm) x 2-3/4" (69.9 mm) x 1/2" (12.7 mm) Use with B7S Series Base Shoe	10
BSWB58	2-5/8" (66.7 mm) x 2-7/8" (73 mm) x 1/2" (12.7 mm) Use with L56S, B6S Series Base Shoe	10
LSWB21	3-3/16" (81 mm) x 3-3/8" (85.7 mm) x 1/2" (12.7 mm) Use with L21S, L25S Series Base Shoe	10

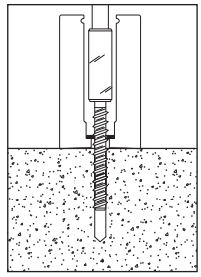
Minimum order: 1 pack. Packaged 10 per pack.

Base Shoe Fasteners and Accessories

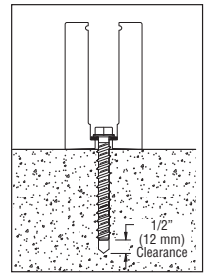
CRL Wedge-Bolt Anchors



Using the proper diameter ANSI Grade drill bit, drill a hole into the concrete to a depth of at least 1/2" (12.7 mm), or one anchor diameter deeper than the embedment required. Blow the hole clean of dust and other material.



Insert the Wedge-Bolt through the Wedge-Bolt Washer and Base Shoe into the Wedge-Bolt hole. Begin tightening the Wedge-Bolt by rotating clockwise and applying downward pressure. This will engage the first few threads as the Wedge-Bolt begins to advance.



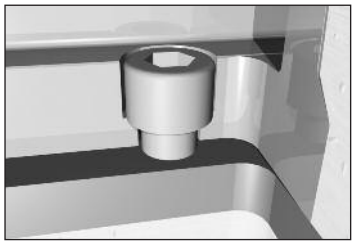
Continue tightening the Wedge-Bolt until the Wedge-Bolt and Washer are firmly seated against the Base Shoe while achieving the required embedment depth. In extremely dense materials, use of an impact wrench is recommended.

Wedge-Bolt Anchors achieve their load capacity by the thread undercutting the base material. Up to 40 ft./lbs. of torque can be applied in 4000 psi concrete to achieve maximum clamping torque to the Base Shoe. Wedge-Bolt Anchors are manufactured from heat treated carbon steel, bright zinc plated with a chromate treatment. **NOTE:** Cat. No. WBA14X3 for use with W5B Small Profile Windscreen Base and Cat. No. WBA38X4 is for use with B5L, B5S, B5T, B6S, B7S, and L56 Base Shoes.

CAT. NO.	DESCRIPTION	QTY/BOX
WBA14X3	1/4" x 3" (6.3 x 76 mm) Wedge-Bolt Anchor	50
WBAW14*	Wedge-Bolt Washer for WBA14X3	50
WBA38X4	3/8" x 4" (9.5 x 102 mm) Wedge-Bolt Anchor	50
WBAW38*	Wedge-Bolt Washer for WBA38X4	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.

CRL Socket Head Cap Screws



- 304 Stainless Steel

CRL Socket Head Cap Screws are used to secure glass railing Base Shoe to approved 1/2" (12.7 mm) steel embedment plates with a minimum 1/2" (12.7 mm) of thread engagement. Also works with CRL Weld Blocks (see page B156).

CAT. NO.	SIZE
SHCS12X34	1/2"-13 x 3/4" (19 mm)
SHCS12X1	1/2"-13 x 1" (25 mm)
SHCS12X112	1/2"-13 x 1-1/2" (38 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. 7718H
9/16" 6-Pt. Socket

CAT. NO. 7719H
19 mm 6-Pt. Socket

CAT. NO. 7716H
22 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" (9.5 mm) Hex Bit

Minimum order: 1 each.

CRL Makita 1" Rotary Hammer Drill

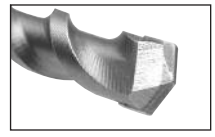
- Variable Speed 0 to 1100 RPM
- 7 Amp Motor
- Uses S.D.S. Drills
- 0 to 4500 Blows Per Minute

CAT. NO. HR2455X
Includes: Depth Gauge, Side Handle, and Carrying Case

This Heavy-Duty 1" (25 mm) Rotary Hammer has a variable speed and reversing motor, and is ideal for Wedge-Bolt drilling. It features a quick bit changeover system for positive bit retention, and a conveniently located reversing switch. Uses S.D.S. Masonry Drills. Readily accepts S.D.S. Plus or Dual Slot type masonry bits. Minimum order is one each.

CRL S.D.S. Masonry Drills

- ANSI Spec. for Wedge-Bolts



S.D.S. Masonry Drills are made to the ANSI Specifications required for the proper performance of Wedge-Bolts. 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
SDSW38	.389" (9.9 mm)	WBA38X4 Wedge-Bolt Anchor	12" (305 mm)
SDSW14	.259" (6.6 mm)	WBA14X3 Wedge-Bolt Anchor	8" (203 mm)

Minimum order: 1 each.

C.R. Laurence Co.

Custom Bending Quote/Order Request Form

new

Fax Completed Checklist to C.R. Laurence Technical Sales at (800) 587-7501 in the U.S., or (323) 584-5289 (Canada and International). Then call to discuss: (800) 421-6144 (U.S.), (877) 421-6144 (Canada), or (323) 588-1281 (International). Ask for Extension 7730. This form is also available online at **crlaurence.com**.

Company Name _____

Contact _____

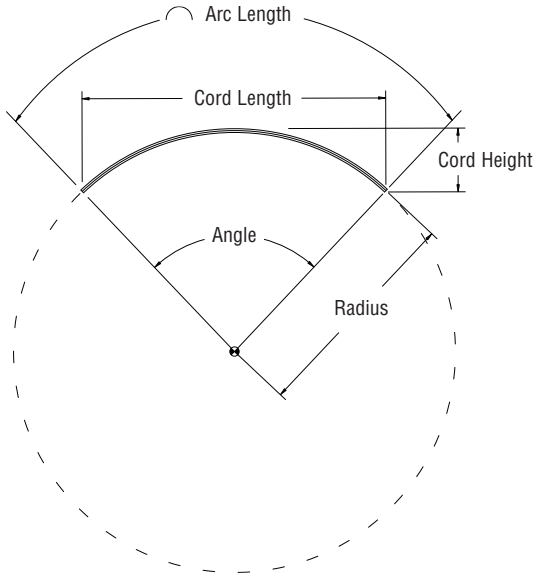
Job Name _____

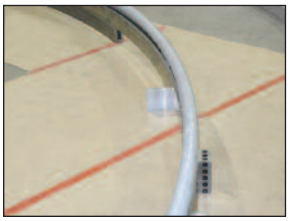
Phone # _____

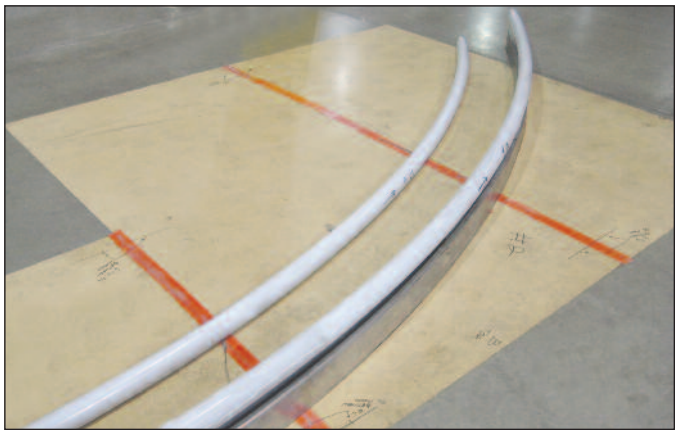
Fax # _____

Date _____

When you are ready to order, utilize this form to assist you in covering the details required to stretch form or roll form Cap Rail, Hand Rail, Base Shoe, and Base Shoe Cladding. Going through the exercise should prevent you from overlooking any details related to your installation.







Just a Few of the Products CRL Manufacturing Can Bend

- **Cap Rails, Hand Rails, Base Shoes, and Cladding**
- **Channels and Structural Steel**
- **Architectural Metals and Metal Panels**

HOW TO ORDER:

Field measure and/or specify each required dimension from the drawing to the left using center line dimensions. Remember all bent products will be shipped in long lengths and will need to be field fabricated to exact size by the customer. Below are the different measurements CRL looks for when placing orders.

- **Usable Arc Length**
- **Center Line Cord Length**
- **Center Line Cord Height**
- **Center Line Radius**
- **Angle**

CRL's Bent Railing Products are manufactured within acceptable industry tolerances, plus or minus 1/4" (6.3 mm) of the specified center line radius or shape. All bent products will be shipped in long lengths and will need to be field fabricated to exact size by the installer. If templates are sent in, they must be clearly marked where the center line of product is located. No paper templates will be accepted. If templates are required make sure they are made from plywood and or hardboard (Masonite) with the critical center line dimension points.

For GRS Glass Railing System applications, CRL highly recommends installing the base shoe first before ordering glass. If the glass is ordered at the same time the shoe is, the installer can run the risk that the glass may not fit the base shoe properly due to conflicts in tolerances.

IMPORTANT: Depending on the complexity of your project, one or more of the following may be required: sketches or drawings (with dimensions) of your particular application; printed architectural drawings or CAD files; photos (preferably digital) of job site conditions. **NOTE:** A final sign off is required prior to any custom fabrication. This form is also available online at **crlaurence.com**.

Custom Bending Quote/Order Request Form

new

Company Name _____

Contact _____

Job Name _____

Phone # _____

Fax # _____

Date _____

When you are ready to order, utilize this form to assist you in covering the details required to stretch form or roll form Cap Rail, Hand Rail, Base Shoe and Base Shoe Cladding. Going through the exercise should prevent you from overlooking any details related to your installation.

Fax Completed Checklist to C.R. Laurence Technical Sales at (800) 587-7501 in the U.S., or (323) 584-5289 (Canada and International). Then call to discuss: (800) 421-6144 (U.S.), (877) 421-6144 (Canada), or (323) 588-1281 (International). Ask for Extension 7730. This form is also available online at **crlaurence.com**.

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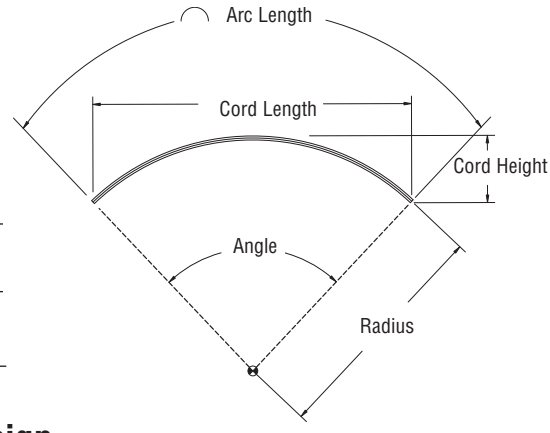

Quantity: _____ **Center Line Cord Length:** _____

Catalog Number: _____ **Center Line Cord Height:** _____

Finish: _____ **Center Line Radius:** _____

Angle: _____ **Usable Arc Length:** _____

Layout Grid to Sketch Design

CRL GRS GLAZING SYSTEMS

This Base Shoe Quote/Order Checklist is designed to assist you in covering the details required to complete a Base Shoe installation. Mark the boxes in the Checklist Area that apply to your installation. Going through this exercise should prevent you from overlooking any details related to your installation, and assist you in making your product selections. The Product Selection Area is where you can actually write down the complete catalog numbers of the products you have selected.

IMPORTANT: Depending on the complexity of your project, one or more of the following may be required to accurately quote: sketches or drawings of your particular application with dimensions; printed architectural drawings or CAD files; photos of job site conditions (digital images are preferable). **NOTE:** A final sign off is required prior to any custom fabrication.

Date:_____ Company Name:_____Phone #:_____

Project Name:_____ Your Name:_____

Checklist Area:

1 Type of Attachment: (See pages B132 to B133)

- ❑ Base Shoe to Concrete
- ❑ Base Shoe to Weld Block
- ❑ Base Shoe to Steel Channel or Angle
- ❑ Base Shoe Embedded in Concrete (Flush Set)
- ❑ Base Shoe to Steel Embedment Strip

2 Attachment Fasteners and Accessories: (See pages B155 to B157)

- ❑ Wedge-Bolt Anchors and Washers (For Concrete)
- ❑ 1/2"-13 Socket Head Cap Screws (For Steel)
- ❑ HSL3 Expansion Anchors (For Concrete)
- ❑ Hex Head Cap Screws
- ❑ Weld Blocks (For Steel) ❑ Drain Blocks
- ❑ Nylon Allen Screws (Protects Steel Embedment Threads)

3 Style of Base Shoe and Glass Securing Method: (See pages B136 to B151)

- ❑ L56S Series Square for 9/16" (13.52 mm) Laminated Tempered Glass
- ❑ L21S Series Square for 27/32" (21.52 mm) Laminated Tempered Glass
- ❑ L25S Series Square for 1-1/16" (25.52 mm) Laminated Tempered Glass
- ❑ B6S Series Square for 15 mm Monolithic Tempered Glass
- ❑ B5S Series Square for 1/2" (12 mm) Monolithic Tempered Glass
- ❑ B5S Series Square for 5/8" (16 mm) Monolithic Tempered Glass
- ❑ B5T Series Tapered for 1/2" (12 mm) Monolithic Tempered Glass
- ❑ B5T Series Tapered for 5/8" (16 mm) Monolithic Tempered Glass
- ❑ B5L Series Square for 1/2" (12 mm) Monolithic Tempered Glass
- ❑ B5L Series Square for 5/8" (16 mm) Monolithic Tempered Glass
- ❑ B7S Series Square for 3/4" (19 mm) Monolithic Tempered Glass

Base Shoe Length:

- ❑ 120" (3.05 m) ❑ 240" (6.10 m)
- ❑ Custom Length (Cuts, L.H. Miter or R.H. Miter)

Base Shoe Hole Fabrication:

- ❑ No Fabrication ❑ Drill and Counter Bore on 12" (305 mm) Centers
- ❑ Other _____

4 Glass Securing Accessories: (See pages B110 to B131)

- ❑ TAPER-LOC™ Dry Glaze 1/2" and 3/4" (12 and 19 mm) Monolithic Tempered Glass
- ❑ TAPER-LOC™ Dry Glaze 3/8" (10 mm) Monolithic Tempered Glass
- ❑ TAPER-LOC™ Dry Glaze 27/32" and 1-1/16" (21.52 and 25.52 mm) Laminated Tempered Glass
- ❑ TAPER-LOC™ Dry Glaze 9/16" (13.52 mm) Laminated Tempered Glass
- ❑ Wet Glaze 1/2" (12 mm) Setting and Centering Blocks
- ❑ Wet Glaze 5/8" (16 mm) Setting and Centering Blocks
- ❑ Wet Glaze 3/4" (19 mm) Setting and Centering Blocks
- ❑ 1/4" (6 mm) Spacing and Sealing Pads for 1/2" (12 mm) Glass
- ❑ 1/4" (6 mm) Spacing and Sealing Pads for 3/4" (19 mm) Glass
- ❑ 1/4" (6 mm) Rigid Rubber Spacing Blocks for 1/2" (12 mm) Glass
- ❑ 1/4" (6 mm) Rigid Rubber Spacing Blocks for 3/4" (19 mm) Glass
- ❑ Base Shoe Gasket [for 1/2" (12 mm) and 3/4" (19 mm) Glass Only]
- ❑ Expanding Cement

5 Cladding Required: (See pages B137 to B153)

- ❑ Yes ❑ No

Stock Finish: ❑ Custom Finish: _____

- ❑ Brushed Stainless Steel US32D
- ❑ Polished Stainless Steel US32
- ❑ Polished Brass US3
- ❑ Satin Anodized US28
- ❑ Satin Brass US4
- ❑ Dark Bronze Anodized 313

Cladding Length:

- ❑ 120" (3.05 m) Stock Length
- ❑ Custom Length up to 168" (4.26 m) (Cuts, L.H. Miter or R.H. Miter)

Cladding Accessories: (See pages B137 to B154)

- ❑ End Caps
- ❑ Mitered Corner Sets
- ❑ Welded End Caps
- ❑ Cladding Securing Tape
- ❑ Cladding Securing Silicone Sealant

Product Selection: (Fill in Appropriate Areas for All Products That Will Be Required for the Job)

PRODUCT	CAT. NO.	QTY.	PRODUCT	CAT. NO.	QTY.
Base Shoe			Cladding Stock Lengths		
TAPER-LOC™ Sets			End Caps		
Expanding Cement			Corners		
Setting/Centering Blocks			Fasteners		
Spacing/Sealing Pads			Tape		
Rigid Rubber Spacers			Silicone Sealant		
Base Shoe Gasket			Installation Tools		

Fax Completed Checklist to: C.R. Laurence Technical Sales at (800) 587-7501 in the U.S., or (323) 584-5289 (Canada or International).
To discuss call: (800) 421-6144 in the U.S., (877) 421-6144 from Canada, or (323) 588-1281 (International). Ask for Extension 7730.

Certification of Engineer Testing

- **Test Results Available for Both TAPER-LOC™ Dry Glaze System and Wet Glaze System**
- **Complete Information May Be Downloaded From PDF Files at crlaurence.com**
- **Hard Copy Results Also Available With Consulting Engineer's Seal and Signature for a Modest Fee**

15 OCT 2008

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C.R.Laurence Co., Inc.
2503 E Vernon Ave.
Los Angeles, CA 90058
(T) 800.421.6144
(F) 800.587.7501
www.crlaurence.com

SUBJ: TAPER-LOC® SYSTEM DRY-GLAZE
GRS – GLASS RAIL SYSTEM

The Taper-Loc® System dry-glaze with the Glass Rail System, GRS, utilizes tapered nylon plates to lock tempered glass in an aluminum extruded base shoe to anchor and support structural glass balustrades which support a variety of top rails and grab rails to construct guards and dividers. The system is intended for interior and exterior weather exposed applications and is suitable for use in all natural environments. The Taper-Loc® with the GRS may be used for residential, commercial and industrial applications. This is an engineered system designed for the following criteria:

The design loading conditions are:

On Top Rail:

Concentrated load = 200 lbs any direction, any location
Uniform load = 50 plf, any direction perpendicular to rail

On In-fill Panels:

Concentrated load = 50# on one sf.
Distributed load = 25 psf on area of in-fill, including spaces
Wind load = As stated for the application and components

Refer to IBC Section 1607.7.1

Glass stresses are designed for a safety factor of of 4.0 (IBC 2407.1.1).

The Taper-Loc® with the GRS system will meet or exceed all requirements of the 1997 Uniform Building Code, 2000, 2003 and 2006 International Building Codes, 2007 California Building Code, and 2007 Florida Building Code. Aluminum components are designed in accordance with the 2000 and 2005 Aluminum Design Manuals. Stainless steel components are designed in accordance with SEI/ASCE 8-02 Specification for the Design of Cold-Formed Stainless Steel Structural Members.

Edward Robison, P.E.
Attachments -
Calculations and profiles 47 pages

EDWARD C. ROBISON, PE
10012 Creviston Dr NW
Gig Harbor, WA 98329
253-858-0855/Fax 253-858-0856 elrobison@narrows.com

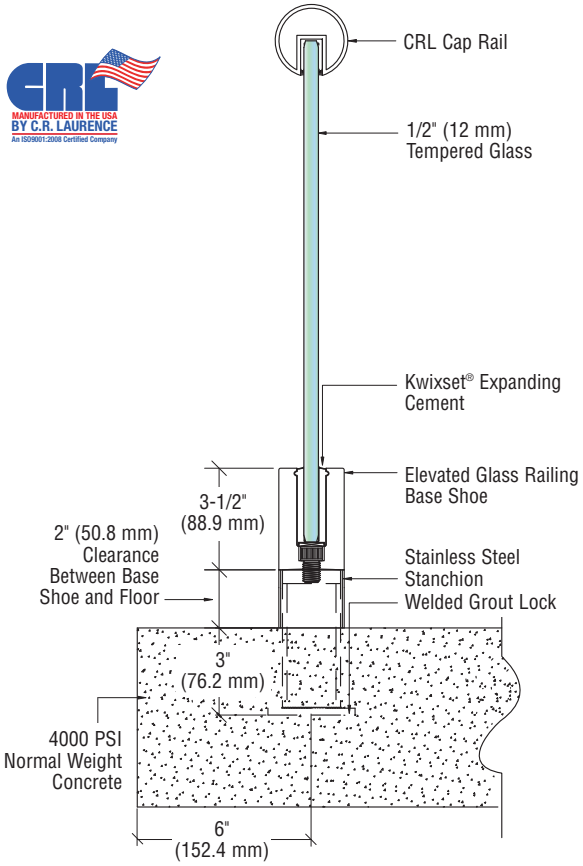
CRL EGR Elevated Glass Railing System

- **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) Tempered Glass**
- **Seven Standard Powder Coated Finishes, Plus Unfinished Chromate; Custom Finishes Also Available**
- **Custom Drilling and Fabrication Available**

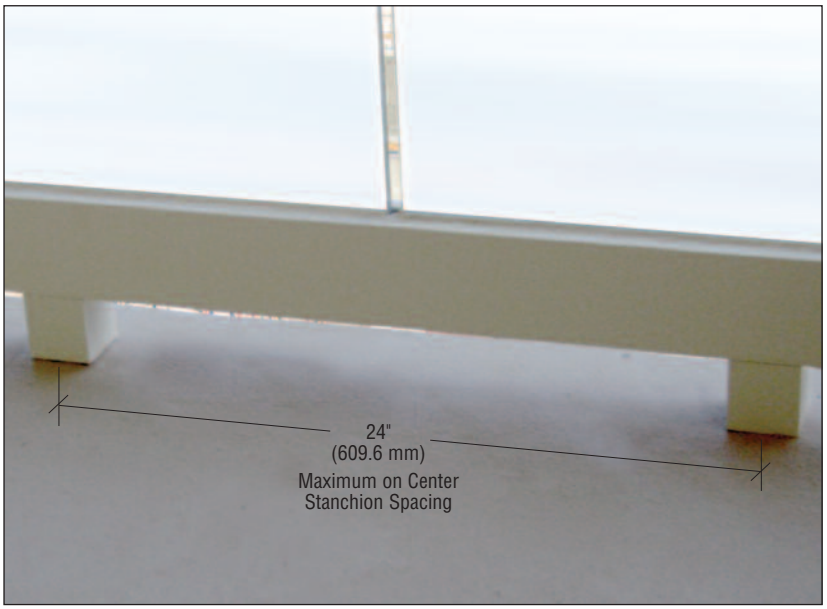
CRL's EGR Elevated Glass Railing System was designed for those applications that require substantial clearance underneath the Base Shoe for drainage, such as the balconies of high-rise hotels or condominiums. The EGR System allows water and debris to escape beneath the Base Shoe, and not dam up over time. This attractive system will meet these requirements and, at the same time, look good doing it.

The most critical component in any railing system is the proper attachment of the Base Shoe Stanchions to the substrate. CRL has engineered a Core Mounted System that will suit both residential and commercial applications.

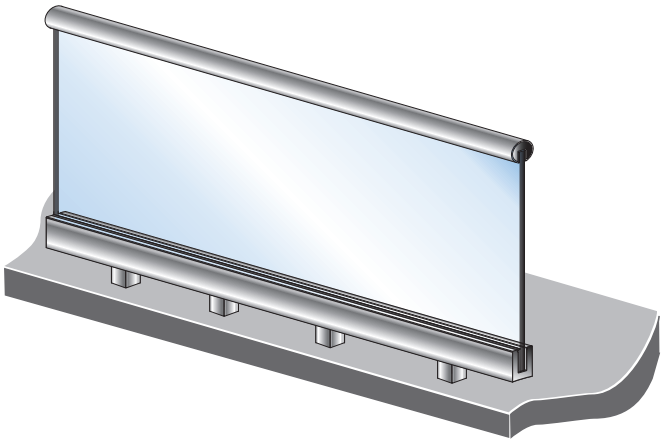
On the following pages you can see how EGR Base Shoe works with our GRS Cap Rails and Wet Glaze Installation Method to complete the project.

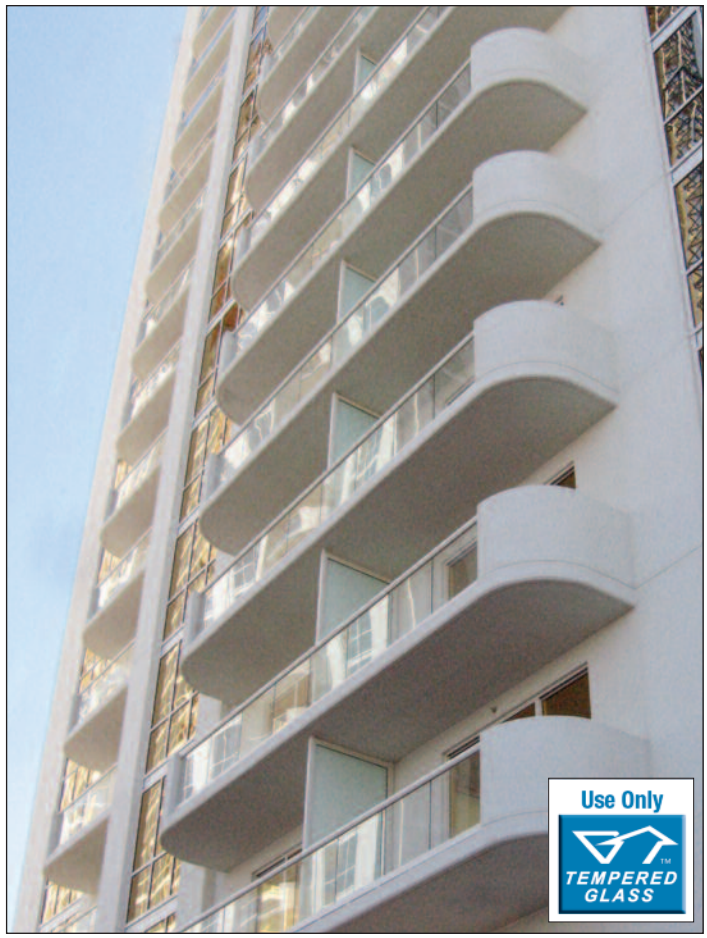


Use Only TEMPERED GLASS



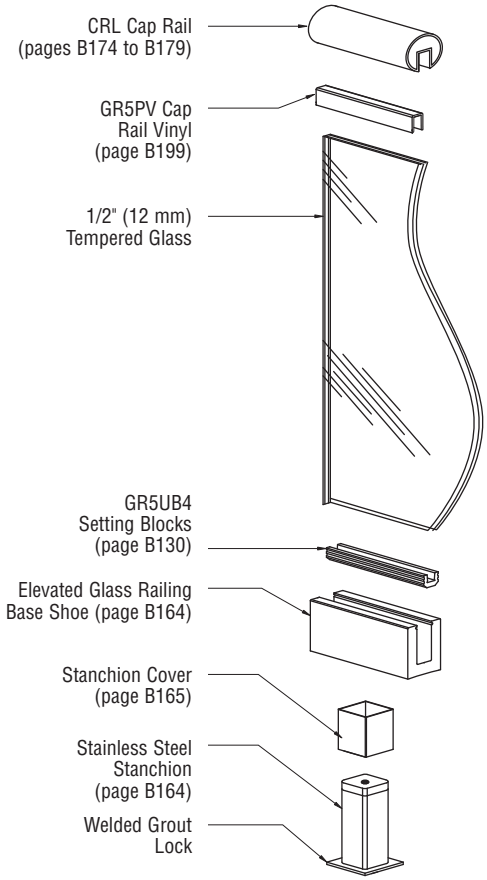
CRL EGR Elevated Glass Railing System





The CRL EGR Elevated Glass Railing System gives the user a high-end commercial look, while maintaining the strength and durability required in order for water and debris to drain and not pool, as is common with typical surface mounted railings.

Installation is no more difficult than with normal railing systems, and many of the components are shared with our GRS Cap Railing System, so inventories of required parts are well stocked, assuring you of short lead times.



STANDARD COLORS

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 EGR Elevated Glass Railing Base Shoe

- **Ideal for Balconies That Require Clearance Under the Bottom Rail for Drainage**
- **6063 Aluminum Alloy T5 Temper**
- **Custom Drilling and Fabrication Available**
- **Seven Standard Powder Coated Finishes; Custom Colors Also Available**
- **Pre-Drilled Slotted Holes 12" on Center for Easy Installation**

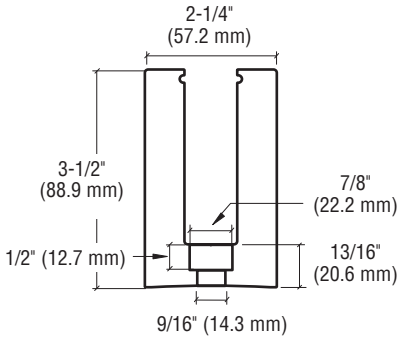
Use Only TEMPERED GLASS

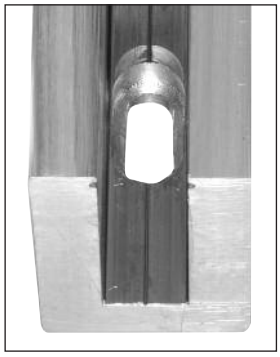
WET GLAZE ONLY

Gasket Retention Groove Secures the Top Rubber Gasket in the Base Shoe

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, so critical in high-rise and other commercial applications. Installation to the Stanchions is by Stainless Steel Socket Head Cap Screw Fasteners through 24" (609.6 mm) on center pre-drilled and slotted holes in the Base Shoe, after the Stanchions have been set in the concrete substrate.

CRL offers Elevated Glass Railing Base Shoe in mill finish or powder coated with one of our seven standard colors (see page B163). If your project requires a custom color, our manufacturing facility can offer over 250 quick turn custom color options, with the ability to color match as well. Custom drilling and fabrication of the Base Shoe is also available on special order. Contact CRL Technical Sales for details or a quote.





Pre-drilled Slotted Holes

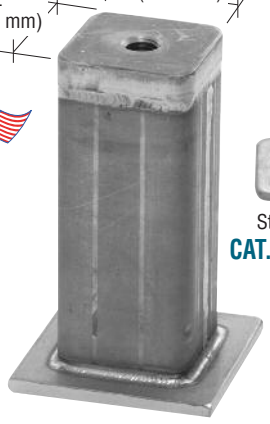
CAT. NO.	DESCRIPTION	FINISH
EGRB10D	*10' (3.05 m) Elevated Base Shoe	Mill
EGRB10DP▲	*10' (3.05 m) Elevated Base Shoe	Powder Coated

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.

CRL EGR Stanchion Assembly

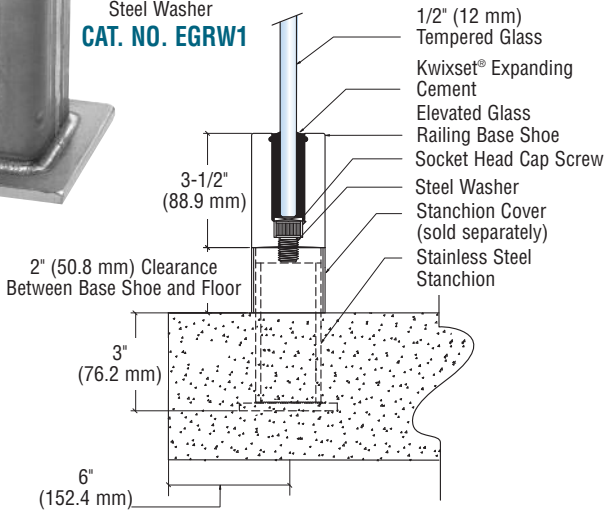
- **Supplied Complete With Steel Washer and Ready to Install Into Concrete Substrate**
- **Grade 304 Stainless Steel**
- **Stanchion Drilled and Tapped for 1/2" Socket Head Cap Screw**
- **Easy Installation**

MANUFACTURED IN THE USA BY C.R. LAURENCE
An ISO9001:2008 Certified Company



Shown with Stanchion Cover (Sold Separately)

Steel Washer
CAT. NO. EGRW1



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" (76.2 mm), giving you a 2" (50.8 mm) clearance under the Elevated Base Shoe. **NOTE:** Use CRL Cat. No. SHCS12X34 Socket Head Cap Screws (see page B157) to properly secure the Base Shoe with the included Steel Washer to the Stanchion. All Stanchions must be installed onto the concrete substrate before the Base Shoe can be set in place with Socket Head Cap Screws. Installation instructions are included.

CAT. NO.	DESCRIPTION	FINISH
EGRSA4	5" (127 mm) Stanchion Assembly	Mill
EGRW1	Replacement Steel Washer	*Mill

Minimum order: 1 each. *Minimum order 10 each.

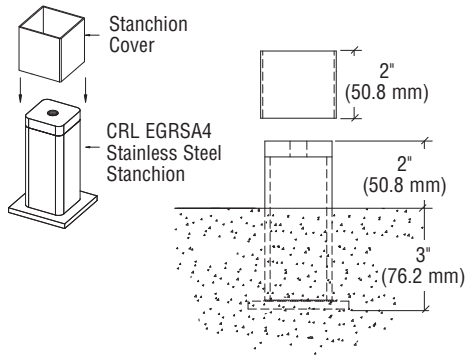
CRL EGR Stanchion Covers

- **Matches Shape and Color of Elevated Base Shoe**
- **Available Pre-Cut for Easy Installation**

CRL's EGR Aluminum Stanchion Covers are design to sleeve over the embedded Stainless Steel Stanchions before the Base Shoe is installed. Standard 2" (50.8 mm) size or 36" (914 mm) lengths you can cut to required height.

CAT. NO.*	LENGTH	FINISH*
EGRSC2	2" (50.8 mm)	Powder Coated
EGRSC36	36" (914 mm)	Powder Coated

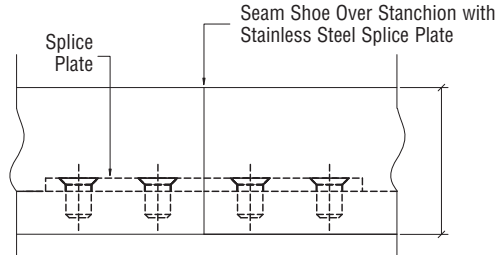
Minimum order: 1 each. * Specify powder coat color when ordering.



Stanchion sold separately, see page B164

CRL EGR Splice Plates

- **Designed to Align and Splice Elevated Base Shoe**
- **304 Alloy Stainless Steel**
- **Supplied With Anchor Screws**

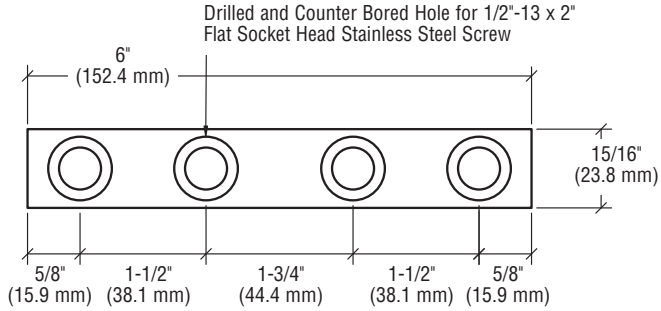


CRL's EGR Stainless Steel Splice Plates are used to splice together straight lengths of the Elevated Base Shoe. Splice Plates measure 1/4" (6.3 mm) thick, and are 15/16" (23.8 mm) wide by 6" (152.4 mm) long. Splice Plates are constructed from 304 alloy stainless steel.

Each Splice Plate is supplied with four 1/2"-13 x 2" (50.8 mm) Flat Socket Head Stainless Screws.

CAT. NO.	DESCRIPTION	MATERIAL
EGRSP1	Splice Plate	Stainless Steel

Minimum order: 10 each. Must be ordered in increments of 10.



Cap Rails

See pages B174 to B215

Cap Rail Vinyl

See pages B167, B169

Setting Blocks

See page B130

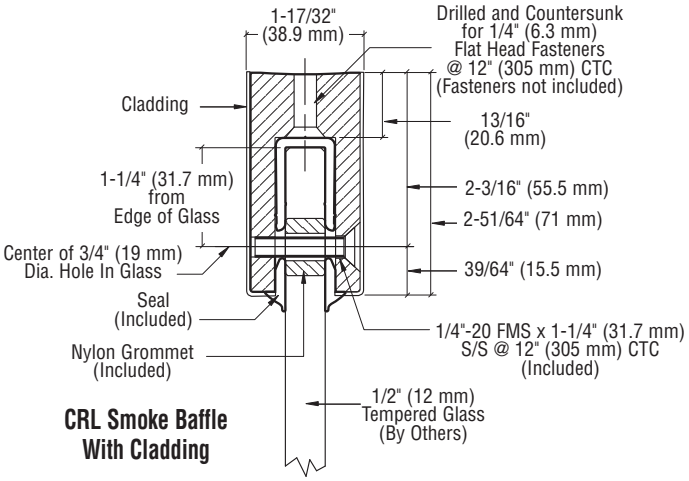
Expanding Cement

See page B129

CRL SMOKE BAFFLE BASE SHOE

CRL Standard Smoke Baffle Base Shoe for 1/2" (12 mm) Glass

- **For Fabricating Almost Invisible Smoke Curtains From 1/2" (12 mm) Glass**
- **Glass is Mechanically Secured With Fasteners and Grommets**
- **Custom Drilling, Mitering, and Cutting Services Available**



CRL Smoke Baffle 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 page B167). For additional Base Shoe specifications visit our web site at **crlaurence.com**.

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" (6.3 mm) Flat Head Fasteners	Requires 3/4" (19 mm) Holes	38 Lbs. (17 kg)
B5B20 ▲	240" (6.10 m)	Requires (20) 1/4" (6.3 mm) Flat Head Fasteners	Requires 3/4" (19 mm) Holes	75 Lbs. (34 kg)

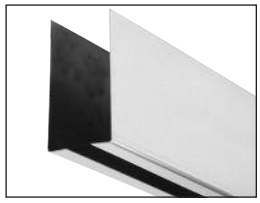
Minimum order: 1 each. All Base Shoe can be combined for quantity pricing. ▲ Comes with GR5PV Cap Rail Vinyl, glass mounting grommets and fasteners, and RG12100 Roll-In Vinyl. Must ship common carrier.

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 distribution 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.

CRL SMOKE BAFFLE BASE SHOE

CRL Cladding for Standard Smoke Baffle Base Shoe

- Adhere With Cladding Tape or 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 or Silicone Sealant. See page B154 for CRL Cladding Tape, CRL Silicone Sealant, and attachment instructions.

CAT. NO.	GRADE	GA./THK.	STOCK LENGTH	FINISH
BWCBS10	304	20/.050"	120" (3.05 m)	Brushed Stainless
BWCPS10	304	20/.050"	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 or 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 or Silicone Sealant. See page B154 for CRL Cladding Tape, CRL 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 or Silicone Sealant

CRL Mitered Corner Cladding is available in six architectural finishes. Each leg is 12" (305 mm) in length, and can be secured to the Base Shoe using Cladding Tape or Silicone Sealant. See page B154 for CRL Cladding Tape, CRL 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. Finishes can be combined for quantity pricing.

CRL Roll-In Vinyl

- Black Vinyl Dresses Up Top Opening

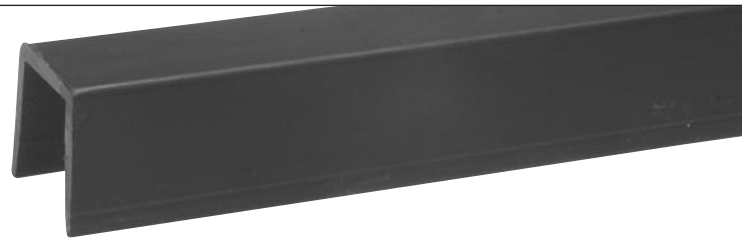
CRL Roll-In Vinyl finishes off the installation of the glass panels in wet glaze pour installations, and also helps secure the glass in Standard Smoke Baffle Base Shoe applications.

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.

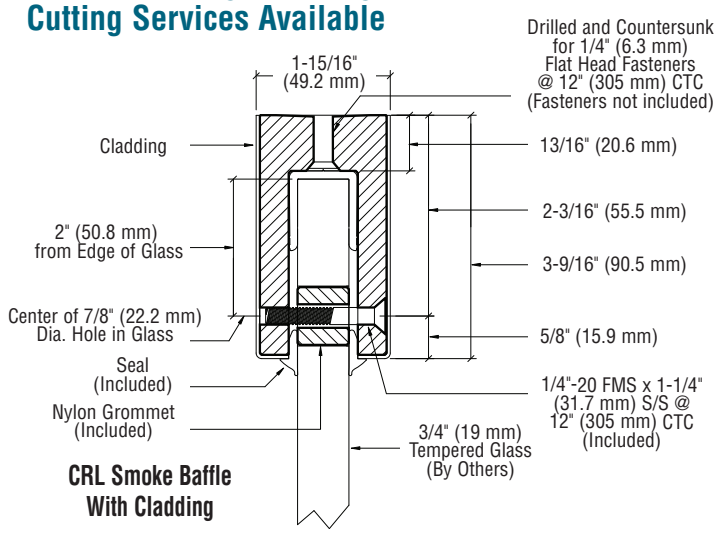
CAT. NO.	DESCRIPTION	STOCK LENGTH
GR5PV	Cap Rail Vinyl for 1/2" (12 mm) Glass	120" (3.05 m)#

Minimum order: 1 each. # Must ship common carrier. Packing charge added to orders of fewer than five lengths.

CRL SMOKE BAFFLE BASE SHOE

CRL Heavy-Duty Smoke Baffle Base Shoe for 3/4" (19 mm) Glass

- **For Fabricating Almost Invisible Smoke Curtains From 3/4" (19 mm) Glass**
- **Glass is Mechanically Secured With Fasteners and Grommets**
- **Custom Drilling, Mitering, and Cutting Services Available**



CRL Smoke Baffle 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 page B169). For additional Base Shoe specifications visit our web site at **crlaurence.com**.

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" (6.3 mm) Flat Head Fasteners	Requires 3/4" (19 mm) Holes	43 Lbs. (19 kg)
B7B20 ▲	240" (6.10 m)	Requires (20) 1/4" (6.3 mm) Flat Head Fasteners	Requires 3/4" (19 mm) Holes	76 Lbs. (39 kg)

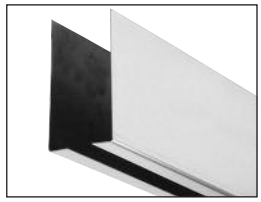
Minimum order: 1 each. All Base Shoe can be combined for quantity pricing. ▲ Comes with GR7PV Cap Rail Vinyl, glass mounting grommets and fasteners, and RG12100 Roll-In Vinyl. Must ship common carrier.

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 distribution 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.

CRL SMOKE BAFFLE BASE SHOE

CRL Cladding for Heavy-Duty Smoke Baffle Base Shoe

- Adhere With Cladding Tape or 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 or Silicone Sealant. See page B154 for CRL Cladding Tape, CRL Silicone Sealant, and attachment instructions. **NOTE:** Sold by individual pieces. Base Shoe requires two pieces for coverage on both sides.

CAT. NO.	GRADE	GA./THK.	STOCK LENGTH	FINISH
B7WCBS10	304	20/.050"	120" (3.05 m)	Brushed Stainless
B7WCPS10	304	20/.050"	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 or 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 or Silicone Sealant. See page B154 for CRL Cladding Tape, CRL 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 or Silicone Sealant

CRL Mitered Corner Cladding is available in six architectural finishes. Each leg is 12" (305 mm) in length, and can be secured to the Base Shoe using Cladding Tape or Silicone Sealant. See page B154 for CRL Cladding Tape, CRL Silicone Sealant, and attachment instructions. Sold only in sets of four pieces.

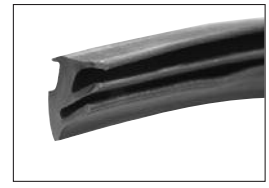
90 DEGREE CORNER CAT. NO.	135 DEGREE CORNER CAT. NO.	GRADE	GA./THK.	FINISH
B7W90BS	B7W135BS	304	20/.035"	Brushed Stainless
B7W90PS	B7W135PS	304	20/.035"	Polished Stainless
B7W90PB	B7W135PB	C260	.045"	Polished Brass
B7W90SB	B7W135SB	C260	.045"	Satin Brass
B7W90SA	B7W135SA	5052	.050"	Satin Anodized
B7W90DU	B7W135DU	5052	.050"	Dark Bronze Anodized

Minimum order: 1 set. 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 pour 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.

CAT. NO.	DESCRIPTION	STOCK LENGTH
GR7PV	Cap Rail Vinyl for 3/4" (19 mm) Glass	120" (3.05 m)#

Minimum order: 1 each. # Must ship common carrier. Packing charge added to orders of fewer than five lengths.

CRL GRS GLASS RAILING SYSTEMS

GRS Glass Rail System With Low Profile Top Cap

GRS Glass Rail System With 2" (51 mm) Top Cap

GRS Glass Rail System With 3" (76 mm) Top Cap

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

GRS Glass Rail System With Wall Mount and Glass Mount Brackets and 1.9" (48 mm) Hand Rail

GRS Glass Rail System With U-Channel Top Cap

Glass and Wall Mount Brackets With 1.9" (48 mm) Hand Rail

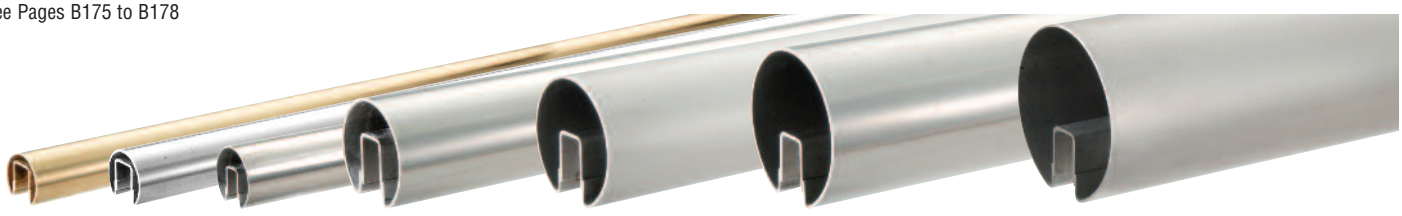
CRL Cap Rails

- **Our Ever Expanding Selection Assures the Right Cap Rail for Just About Any Circumstance**
- **A Variety of Sizes and Finishes Available to Accommodate 1/2" (12 mm), 5/8" (16 mm), and 3/4" (19 mm) Thick Monolithic Tempered Glass**
- **Sizes Now Available to Accommodate 9/16" (13.52 mm), 27/32" (21.52 mm), and 1-1/16" (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, as well as accessories to complete the installation. See the complete selection on pages B174 to B202.

Premium Cap Rails

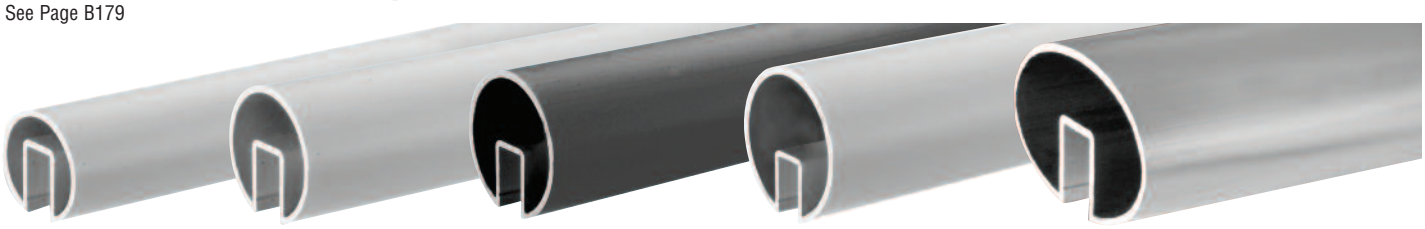
See Pages B175 to B178



1-1/2" (38.1 mm) 1.66" (42.2 mm) 2" (50.8 mm) 2-1/2" (63.5 mm) 3" (76.2 mm) 3-1/2" (88.9 mm) 4" (101.6 mm)

Extruded Aluminum Cap Rails

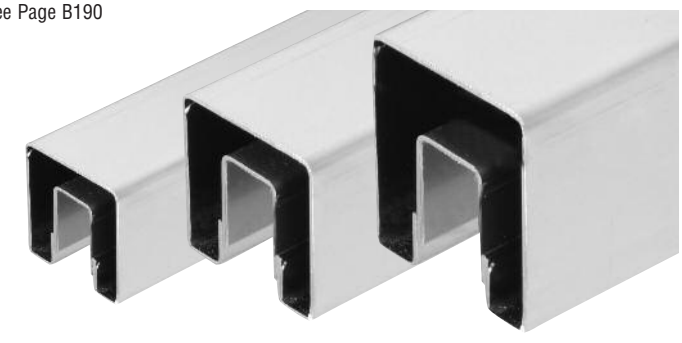
See Page B179



1.9" (48.3 mm) 2-1/2" (63.5 mm) 3" (76.2 mm) 3-1/2" (88.9 mm) 4" x 2-1/2" (101.6 x 63.5 mm) Oval

Premium Square Cap Rails

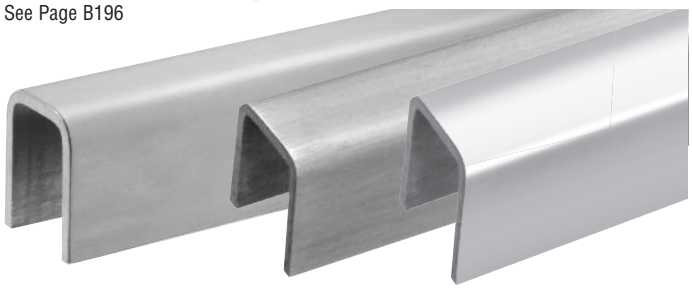
See Page B190



1-1/2" (38.1 mm) 2" (50.8 mm) 2-1/2" (63.5 mm)

Low Profile Cap Rails

See Page B196

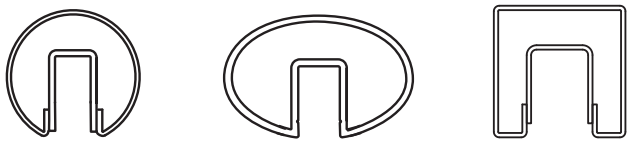


U-Channel Cap Rails

See Page B199-B200

CRL Custom Cap Rail Fabrication

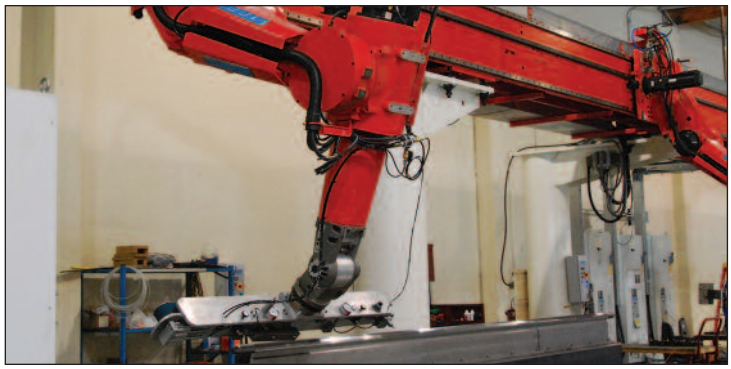
• Cutting, Mitering, Drilling, Bending, and Welding to Create the Perfect Cap Rail



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.



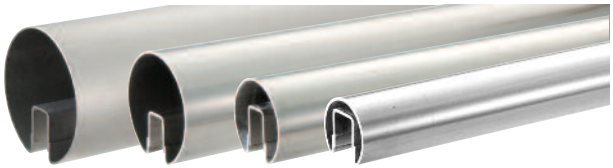
CRL Custom Cap Rail Finishing

• Many Finishing Options, Including Anodizing, Painting, Powder Coating, Brushing, and Polishing

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.

CRL GRS CAP RAILING SYSTEMS

CRL Premium Cap Rails for Monolithic Tempered Glass



- For 1/2" or 5/8" (12 or 16 mm) and 3/4" (19 mm) Monolithic Tempered Glass

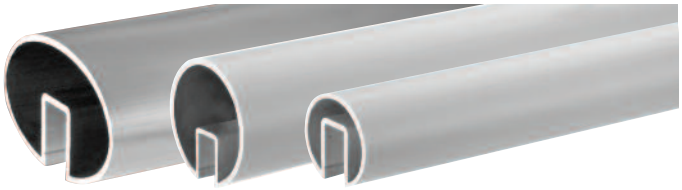
See pages B175-B177 for more information.

CRL Premium Cap Rails for Laminated Tempered Glass

- For 27/32" (21.52 mm) and 1-1/16" (25.52 mm) Laminated Tempered Glass

See page B178 for more information.

CRL Extruded Aluminum Cap Rails



- For 1/2" or 5/8" (12 or 16 mm) and 3/4" (19 mm) Monolithic Tempered Glass

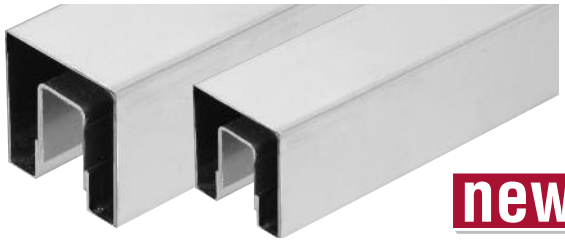
See page B179 for more information.

CRL Premium Square Cap Rails

- For 1/2" or 5/8" (12 or 16 mm) and 3/4" (19 mm) Monolithic Tempered Glass

See page B190 for more information.

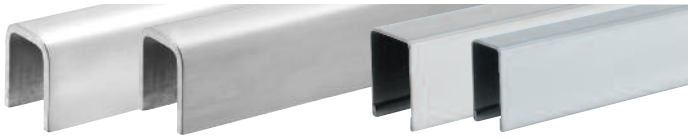
CRL Crisp Corner Cap Rails



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

See page B193 for more information.

CRL U-Channel Cap Rails



- For 1/2" or 5/8" (12 or 16 mm) and 3/4" (19 mm) Monolithic Tempered Glass
- For 27/32" (21.52 mm) Laminated Tempered Glass

See pages B199-B200 for more information.

CRL Low Profile Cap Rails

- For 1/2" or 5/8" (12 or 16 mm) Monolithic Tempered Glass

See page B196 for more information.

CRL Wood Cap Rails

- 1/2" or 5/8" (12 or 16 mm) and 3/4" (19 mm) Monolithic Tempered Glass

See page B214 for more information.

CRL Premium Cap Rails for 1/2" (12 mm) or 5/8" (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" (38.1 mm) to 4" (101.6 mm)**
- **Four Architectural Finishes**
- **Connects to a Variety of Fabricated Corners and End Caps**
- **Cut to Size or Custom Fabricated Lengths Also Available**
- **For Stainless, Alloy 304 is Standard; Alloy 316 is Available on Special Order**
- **For Brass, Alloy 260 is Standard**

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. 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 radius, 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 Rail 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. 32629 Metal Contact Cement (see page B337) is required to achieve a secure and permanent bond at all connections. Use Connector Sleeves shown on pages B182 and B188 to B189 to connect Cap Rails.

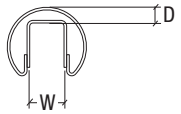
NOTE: When used with 1/2" (12 mm) glass, Cat. No. GR5PV Cap Rail Vinyl (see page B196) and 95CBL Silicone (see page B154) should be used to secure the glass. When used with 5/8" (16 mm) glass, secure with 95CBL Silicone Sealant and Shims. Please contact CRL Technical Sales for more information or for a quote.

CRL Premium Cap Rails for 1/2" (12 mm) or 5/8" (16 mm) Glass

1-1/2" (38.1 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)	FINISH	"W" WIDTH	"D" DEPTH*	THICKNESS	USE SLEEVE NO.
GR15BS	GR15BS14	Brushed Stainless	5/8" (15.9 mm)	5/16" (7.9 mm)	.050" (1.27 mm)	GR15CSS
GR15PS	GR15PS14	Polished Stainless	5/8" (15.9 mm)	5/16" (7.9 mm)	.050" (1.27 mm)	GR15CSS
GR15PB	GR15PB14	Polished Brass	5/8" (15.9 mm)	5/16" (7.9 mm)	.050" (1.27 mm)	GR15CSB
GR15SB	GR15SB14	Satin Brass	5/8" (15.9 mm)	5/16" (7.9 mm)	.050" (1.27 mm)	GR15CSB

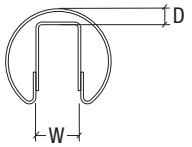
Minimum order: 1 each. Sizes and finishes can be combined for quantity pricing. △GR15 Series Cap Rail will not accept Cap Rail Vinyl and must be secured using 95CBL silicone and shims.



1.66" (42.2 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)	FINISH	"W" WIDTH	"D" DEPTH*	THICKNESS	USE SLEEVE NO.
GR16BS	GR16BS14	Brushed Stainless	3/4" (19 mm)	1/4" (6.4 mm)	.0625" (1.59 mm)	GR16CSS
GR16PS	GR16PS14	Polished Stainless	3/4" (19 mm)	1/4" (6.4 mm)	.0625" (1.59 mm)	GR16CSS

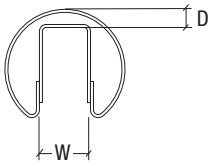
Minimum order: 1 each. Sizes and finishes can be combined for quantity pricing. △GR15 Series Cap Rail is used as the bottom rail only for CRS Post Railing System.



2" (50.8 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)	FINISH	"W" WIDTH	"D" DEPTH*	THICKNESS	USE SLEEVE NO.
GR20BS	GR20BS14	Brushed Stainless	3/4" (19 mm)	3/8" (9.5 mm)	.050" (1.27 mm)	GR20CSS
GR20PS	GR20PS14	Polished Stainless	3/4" (19 mm)	3/8" (9.5 mm)	.050" (1.27 mm)	GR20CSS
GR20PB	GR20PB14	Polished Brass	3/4" (19 mm)	3/8" (9.5 mm)	.050" (1.27 mm)	GR20CSB
GR20SB	GR20SB14	Satin Brass	3/4" (19 mm)	3/8" (9.5 mm)	.050" (1.27 mm)	GR20CSB

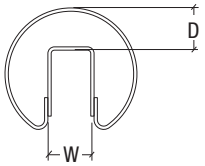
Minimum order: 1 each. Sizes and finishes can be combined for quantity pricing.



2-1/2" (63.5 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)	FINISH	"W" WIDTH	"D" DEPTH*	THICKNESS	USE SLEEVE NO.
GR25BS	GR25BS14	Brushed Stainless	3/4" (19 mm)	7/8" (22.2 mm)	.0625" (1.59 mm)	GR25CSS
GR25PS	GR25PS14	Polished Stainless	3/4" (19 mm)	7/8" (22.2 mm)	.0625" (1.59 mm)	GR25CSS
GR25PB	GR25PB14	Polished Brass	3/4" (19 mm)	7/8" (22.2 mm)	.0625" (1.59 mm)	GR25CSB
GR25SB	GR25SB14	Satin Brass	3/4" (19 mm)	7/8" (22.2 mm)	.0625" (1.59 mm)	GR25CSB

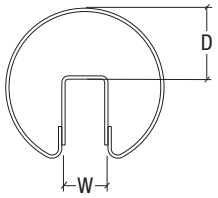
Minimum order: 1 each. Sizes and finishes can be combined for quantity pricing.



3" (76.2 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)	FINISH	"W" WIDTH	"D" DEPTH*	THICKNESS	USE SLEEVE NO.
GR30BS	GR30BS14	Brushed Stainless	3/4" (19 mm)	1-3/8" (34.9 mm)	.0625" (1.59 mm)	GR30CSS
GR30PS	GR30PS14	Polished Stainless	3/4" (19 mm)	1-3/8" (34.9 mm)	.0625" (1.59 mm)	GR30CSS
GR30PB	GR30PB14	Polished Brass	3/4" (19 mm)	1-3/8" (34.9 mm)	.0625" (1.59 mm)	GR30CSB
GR30SB	GR30SB14	Satin Brass	3/4" (19 mm)	1-3/8" (34.9 mm)	.0625" (1.59 mm)	GR30CSB

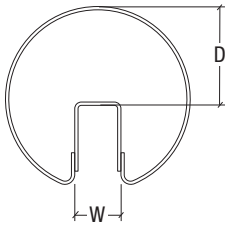
Minimum order: 1 each. Sizes and finishes can be combined for quantity pricing.



3-1/2" (88.9 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)	FINISH	"W" WIDTH	"D" DEPTH*	THICKNESS	USE SLEEVE NO.
GR35BS	GR35BS14	Brushed Stainless	3/4" (19 mm)	1-7/8" (47.6 mm)	.0625" (1.59 mm)	GR35CSS
GR35PS	GR35PS14	Polished Stainless	3/4" (19 mm)	1-7/8" (47.6 mm)	.0625" (1.59 mm)	GR35CSS
GR35PB	GR35PB14	Polished Brass	3/4" (19 mm)	1-7/8" (47.6 mm)	.0625" (1.59 mm)	GR35CSB
GR35SB	GR35SB14	Satin Brass	3/4" (19 mm)	1-7/8" (47.6 mm)	.0625" (1.59 mm)	GR35CSB

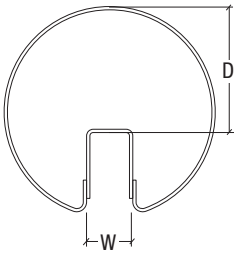
Minimum order: 1 each. Sizes and finishes can be combined for quantity pricing.



4" (101.6 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)	FINISH	"W" WIDTH	"D" DEPTH*	THICKNESS	USE SLEEVE NO.
GR40BS	GR40BS14	Brushed Stainless	3/4" (19 mm)	2-3/8" (60.3 mm)	.0625" (1.59 mm)	GR40CSS
GR40PS	GR40PS14	Polished Stainless	3/4" (19 mm)	2-3/8" (60.3 mm)	.0625" (1.59 mm)	GR40CSS
GR40PB	GR40PB14	Polished Brass	3/4" (19 mm)	2-3/8" (60.3 mm)	.0625" (1.59 mm)	GR40CSB
GR40SB	GR40SB14	Satin Brass	3/4" (19 mm)	2-3/8" (60.3 mm)	.0625" (1.59 mm)	GR40CSB

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" (3.2 mm) if using Cap Rail Vinyl (see page B199).



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, Alloy 304 is Standard; 316 Alloy Available on Special Order**
- **For Brass, Alloy 260 is Standard**

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 our Cat. No. 32629 Metal Contact Cement (see page B337) to achieve a secure and permanent bond at all connections.

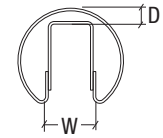
Use Connector Sleeves shown on page B188 to connect Cap Rails. Stainless alloy 304 is standard; Stainless alloy 316 is available on special order. For Brass, alloy 260 is standard. Please contact CRL Railing Technical Sales for more information or for a quote.

NOTE: When using GR207, GR257, and GR307 Series Cap Rails, Cat. No. GR7PV Cap Rail Vinyl (see page B199) and 95CBL Silicone should be used to secure the glass (see page B154).

2" (50.8 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)	FINISH	"W" WIDTH	"D" DEPTH*	THICKNESS	USE SLEEVE NO.
GR207BS	GR207BS14	Brushed Stainless	1" (25.4 mm)	3/8" (9.5 mm)	.050" (1.27 mm)	GR20CSS
GR207PS	GR207PS14	Polished Stainless	1" (25.4 mm)	3/8" (9.5 mm)	.050" (1.27 mm)	GR20CSS
GR207PB	GR207PB14	Polished Brass	1" (25.4 mm)	3/8" (9.5 mm)	.050" (1.27 mm)	GR20CSB
GR207SB	GR207SB14	Satin Brass	1" (25.4 mm)	3/8" (9.5 mm)	.050" (1.27 mm)	GR20CSB

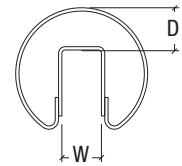
Minimum order: 1 each. Sizes and finishes can be combined for quantity pricing.



2-1/2" (63.5 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)	FINISH	"W" WIDTH	"D" DEPTH*	THICKNESS	USE SLEEVE NO.
GR257BS	GR257BS14	Brushed Stainless	1" (25.4 mm)	7/8" (22.2 mm)	.0625" (1.59 mm)	GR25CSS
GR257PS	GR257PS14	Polished Stainless	1" (25.4 mm)	7/8" (22.2 mm)	.0625" (1.59 mm)	GR25CSS
GR257PB	GR257PB14	Polished Brass	1" (25.4 mm)	7/8" (22.2 mm)	.0625" (1.59 mm)	GR25CSB
GR257SB	GR257SB14	Satin Brass	1" (25.4 mm)	7/8" (22.2 mm)	.0625" (1.59 mm)	GR25CSB

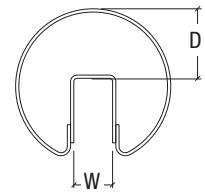
Minimum order: 1 each. Sizes and finishes can be combined for quantity pricing.



3" (76.2 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)	FINISH	"W" WIDTH	"D" DEPTH*	THICKNESS	USE SLEEVE NO.
GR307BS	GR307BS14	Brushed Stainless	1" (25.4 mm)	1-3/8" (34.9 mm)	.0625" (1.59 mm)	GR30CSS
GR307PS	GR307PS14	Polished Stainless	1" (25.4 mm)	1-3/8" (34.9 mm)	.0625" (1.59 mm)	GR30CSS
GR307PB	GR307PB14	Polished Brass	1" (25.4 mm)	1-3/8" (34.9 mm)	.0625" (1.59 mm)	GR30CSB
GR307SB	GR307SB14	Satin Brass	1" (25.4 mm)	1-3/8" (34.9 mm)	.0625" (1.59 mm)	GR30CSB

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" (3.2 mm) if using Cap Rail Vinyl (see page B199).

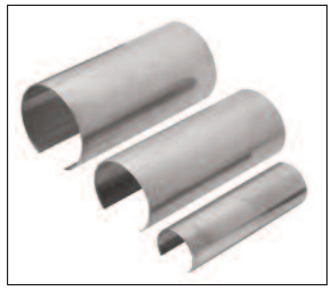


CRL Premium Cap Rail Accessories for 3/4" (19 mm) Glass

Corners

See Pages B185, B187, B207

Connector Sleeves



See Page B188

End Caps

See Pages B180 to B181

Contact Cement

See Page B337

CRL Premium Cap Rails for 27/32" (21.52 mm) and 1-1/16" (25.52 mm) Laminated Glass

new

- **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**
- **For Stainless, Alloy 316 is Standard**

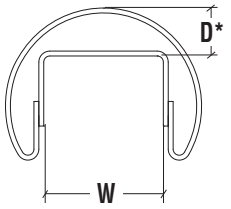
All CRL Premium Cap Rails for Laminated Glass are formed using precision tooling to maintain uniform profiles, allowing for smooth hairline transitions at splices, corners, and end caps. Both Cap Rails support 27/32" (21.52 mm) and 1-1/16" (25.52 mm) laminated glass thicknesses by using CRL different rubber protective inserts (see page B182).

MANUFACTURED IN THE USA BY C.R. LAURENCE
An ISO9001:2008 Certified Company

2" (50.8 MM) DIAMETER PREMIUM CAP RAIL IN 118-1/8" (3 M) LENGTHS

CAT. NO.	FINISH	"W" WIDTH	"D"*	THICKNESS	USE SLEEVE NO.
LR20BS	Brushed Stainless	1-1/4" (31.8 mm)	1/2" (12.7 mm)	.050" (1.27 mm)	LR20CSS
LR20PS	Polished Stainless	1-1/4" (31.8 mm)	1/2" (12.7 mm)	.050" (1.27 mm)	LR20CSS
LR20PB	Polished Brass	1-1/4" (31.8 mm)	1/2" (12.7 mm)	.050" (1.27 mm)	LR20CSB
LR20SB	Satin Brass	1-1/4" (31.8 mm)	1/2" (12.7 mm)	.050" (1.27 mm)	LR20CSB

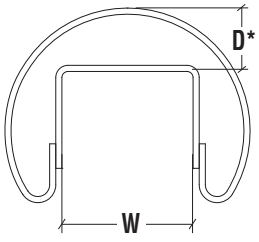
Minimum order: 1 each. Sizes and finishes can be combined for quantity pricing.



2-1/2" (63.5 MM) DIAMETER PREMIUM CAP RAIL IN 118-1/8" (3 M) LENGTHS

CAT. NO.	FINISH	"W" WIDTH	"D"*	THICKNESS	USE SLEEVE NO.
LR25BS	Brushed Stainless	1-1/4" (31.8 mm)	5/8" (15.9 mm)	.050" (1.27 mm)	L25CSS
LR25PS	Polished Stainless	1-1/4" (31.8 mm)	5/8" (15.9 mm)	.050" (1.27 mm)	L25CSS
LR25PB	Polished Brass	1-1/4" (31.8 mm)	5/8" (15.9 mm)	.050" (1.27 mm)	L25CSB
LR26SB	Satin Brass	1-1/4" (31.8 mm)	5/8" (15.9 mm)	.050" (1.27 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" (3.2 mm) if using Cap Rail Rubber Insert (see page B182).

CRL Premium Cap Rail Accessories for Laminated Glass

Corners

See Page B183

Connector Sleeves

See Page B182

End Caps

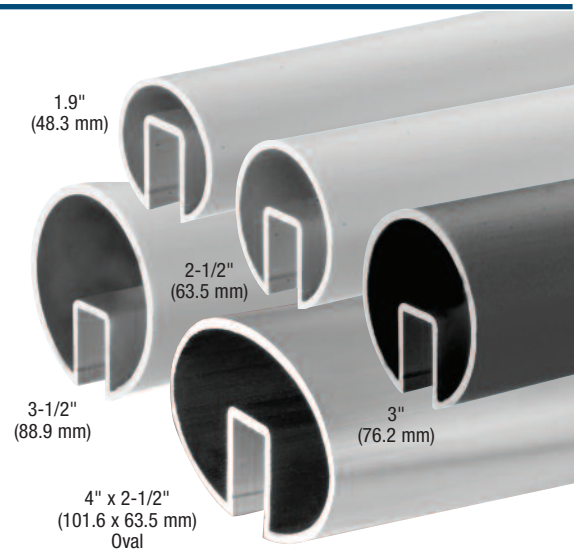
See Page B182

Contact Cement

See Page B337

CRL Extruded Aluminum Cap Rails

- **Connects to a Variety of Fabricated Corners and End Caps**
- **Custom Shapes and Sizes are Available**



CRL Extruded Aluminum Cap Rails are extruded from alloy 6063-T6, which is suitable for custom finishes such as anodizing, powder coating, etc. Use of our 32629 Metal Contact Cement (see page B337) is required to achieve a secure and permanent bond at all connections. Use Connector Sleeves shown on pages B188 to B189 to connect Cap Rails. Please contact CRL Technical Sales for more information or for a quote.

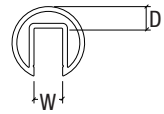
NOTE: Cat. No. GR5PV Cap Rail Vinyl (see page B199) and 95CBL Silicone (see page B154) should be used to secure 1/2" (12 mm) glass; Cat. No. 95CBL Silicone and shims should be used to secure 5/8" (16 mm) glass; Cat. No. GR7PV Cap Rail Vinyl (see page B199) and 95CBL Silicone should be used to secure 3/4" (19 mm) glass.

For 1/2" (12 mm) or 5/8" (16 mm) Glass

1.9" (48.3 MM) DIAMETER EXTRUDED ALUMINUM CAP RAIL IN 240" (6.10 M) LENGTHS

CAT. NO.	FINISH	"W" WIDTH	"D" DEPTH*	THICKNESS	USE SLEEVE NO.
GR19M	Mill Aluminum	3/4" (19 mm)	9/16" (14.3 mm)	.125" (3.2 mm)	GR19CSM
GR19SA	Satin Anodized	3/4" (19 mm)	9/16" (14.3 mm)	.125" (3.2 mm)	GR19CSM
GR19DU	Dark Bronze Anodized	3/4" (19 mm)	9/16" (14.3 mm)	.125" (3.2 mm)	GR19CSM

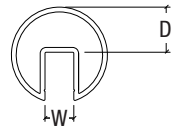
Minimum order: 1 each. Sizes and finishes can be combined for quantity pricing. Must ship common carrier.



2-1/2" (63.5 MM) DIAMETER EXTRUDED ALUMINUM CAP RAIL IN 240" (6.10 M) LENGTHS

CAT. NO.	FINISH	"W" WIDTH	"D" DEPTH*	THICKNESS	USE SLEEVE NO.
GR25M	Mill Aluminum	3/4" (19 mm)	1-3/16" (30 mm)	.125" (3.2 mm)	GR25CSM
GR25SA	Satin Anodized	3/4" (19 mm)	1-3/16" (30 mm)	.125" (3.2 mm)	GR25CSM
GR25DU	Dark Bronze Anodized	3/4" (19 mm)	1-3/16" (30 mm)	.125" (3.2 mm)	GR25CSM

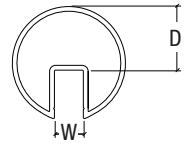
Minimum order: 1 each. Sizes and finishes can be combined for quantity pricing. Must ship common carrier.



3" (76.2 MM) DIAMETER EXTRUDED ALUMINUM CAP RAIL IN 240" (6.10 M) LENGTHS

CAT. NO.	FINISH	"W" WIDTH	"D" DEPTH*	THICKNESS	USE SLEEVE NO.
GR30M	Mill Aluminum	3/4" (19 mm)	1-11/16" (43 mm)	.125" (3.2 mm)	GR30CSM
GR30SA	Satin Anodized	3/4" (19 mm)	1-11/16" (43 mm)	.125" (3.2 mm)	GR30CSM
GR30DU	Dark Bronze Anodized	3/4" (19 mm)	1-11/16" (43 mm)	.125" (3.2 mm)	GR30CSM

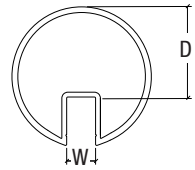
Minimum order: 1 each. Sizes and finishes can be combined for quantity pricing. Must ship common carrier.



3-1/2" (88.9 MM) DIAMETER EXTRUDED ALUMINUM CAP RAIL IN 240" (6.10 M) LENGTHS

CAT. NO.	FINISH	"W" WIDTH	"D" DEPTH*	THICKNESS	USE SLEEVE NO.
GR35M	Mill Aluminum	3/4" (19 mm)	2-3/16" (55.8 mm)	.125" (3.2 mm)	GR35CSM
GR35SA	Satin Anodized	3/4" (19 mm)	2-3/16" (55.8 mm)	.125" (3.2 mm)	GR35CSM
GR35DU	Dark Bronze Anodized	3/4" (19 mm)	2-3/16" (55.8 mm)	.125" (3.2 mm)	GR35CSM

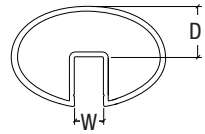
Minimum order: 1 each. Sizes and finishes can be combined for quantity pricing. Must ship common carrier.



4" X 2-1/2" (101.6 MM X 63.5 MM) OVAL EXTRUDED ALUMINUM CAP RAIL IN 240" (6.10 M) LENGTHS

CAT. NO.	FINISH	"W" WIDTH	"D" DEPTH*	THICKNESS	USE SLEEVE NO.
GR0V4M	Mill Aluminum	3/4" (19 mm)	1-1/4" (31 mm)	.125" (3.2 mm)	GR0V4CSM
GR0V4SA	Satin Anodized	3/4" (19 mm)	1-1/4" (31 mm)	.125" (3.2 mm)	GR0V4CSM
GR0V4DU	Dark Bronze Anodized	3/4" (19 mm)	1-1/4" (31 mm)	.125" (3.2 mm)	GR0V4CSM

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 you desire or allow an additional 1/8" (3.2 mm) if using Cap Rail Vinyl (see page B199).

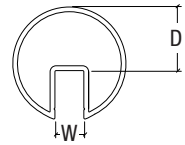


For 3/4" (19 mm) Glass

3" (76.2 MM) DIAMETER EXTRUDED ALUMINUM CAP RAIL IN 240" (6.10 M) LENGTHS

CAT. NO.	FINISH	"W" WIDTH	"D" DEPTH*	THICKNESS	USE SLEEVE NO.
GR307M	Mill Aluminum	1" (25.4 mm)	1-11/16" (31 mm)	.125" (3.2 mm)	GR30CSM
GR307SA	Satin Anodized	1" (25.4 mm)	1-11/16" (31 mm)	.125" (3.2 mm)	GR30CSM
GR307DU	Dark Bronze Anodized	1" (25.4 mm)	1-11/16" (31 mm)	.125" (3.2 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 you desire or allow an additional 1/8" (3.2 mm) if using Cap Rail Vinyl (see page B199).



CRL End Caps for Cap Railings

- Six Architectural Finishes Plus Mill Aluminum
- Formed and Shaped to Fit
- Ready to Install

CRL End Caps easily slip into the Cap Railing. Use of our Cat. No. 32629 Metal Contact Cement (see page B337) is required to achieve a secure and permanent bond. Standard stainless alloy is 304. Stainless alloy 316 is available on special order. For brass, alloy 260 is standard. Contact CRL Technical Sales for more information or a quote.

FOR 1-1/2" (38.1 MM) DIAMETER CAP RAILING

CAT. NO.	FINISH	FITS CAP RAIL NO.
GR15ECBS	Brushed Stainless	GR15BS
GR15ECPS	Polished Stainless	GR15PS
GR15ECPB	Polished Brass	GR15PB
GR15ECSB	Satin Brass	GR15SB

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

FOR 1.66" (42.2 MM) DIAMETER CAP RAILING

CAT. NO.	FINISH	FITS CAP RAIL NO.
GR16ECBS	Brushed Stainless	GR16BS
GR16ECPS	Polished Stainless	GR16PS

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

FOR 1.9" (48.3 MM) DIAMETER CAP RAILING

CAT. NO.	FINISH	FITS CAP RAIL NO.
GR19ECM	Mill Aluminum	GR19M
GR19ECSA	Satin Anodized	GR19SA
GR19ECDU	Duranodic Bronze	GR19DU

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

FOR 2" (50.8 MM) DIAMETER CAP RAILING

CAT. NO.	FINISH	FITS CAP RAIL NO.
GR20ECBS	Brushed Stainless	GR20BS/GR207BS
GR20ECPS	Polished Stainless	GR20PS/GR207PS
GR20ECPB	Polished Brass	GR20PB
GR20ECSB	Satin Brass	GR20SB

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

FOR 2-1/2" (63.5 MM) DIAMETER CAP RAILING

CAT. NO.	FINISH	FITS CAP RAIL NO.
GR25ECBS	Brushed Stainless	GR25BS/GR257BS
GR25ECPS	Polished Stainless	GR25PS/GR257PS
GR25ECPB	Polished Brass	GR25PB/GR257PB
GR25ECSB	Satin Brass	GR25SB/GR257SB
GR25ECM	Mill Aluminum	GR25M
GR25ECSA	Satin Anodized	GR25SA
GR25ECDU	Duranodic Bronze	GR25DU

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

FOR 3" (76.2 MM) DIAMETER CAP RAILING

CAT. NO.	FINISH	FITS CAP RAIL NO.
GR30ECBS	Brushed Stainless	GR30BS/GR307BS
GR30ECPS	Polished Stainless	GR30PS/GR307PS
GR30ECPB	Polished Brass	GR30PB/GR307PB
GR30ECSB	Satin Brass	GR30SB/GR307SB
GR30ECM	Mill Aluminum	GR30M
GR30ECSA	Satin Anodized	GR30SA
GR30ECDU	Duranodic Bronze	GR30DU

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

FOR 3-1/2" (88.9 MM) DIAMETER CAP RAILING

CAT. NO.	FINISH	FITS CAP RAIL NO.
GR35ECBS	Brushed Stainless	GR35BS
GR35ECPS	Polished Stainless	GR35PS
GR35ECPB	Polished Brass	GR35PB
GR35ECSB	Satin Brass	GR35SB
GR35ECM	Mill Aluminum	GR35M
GR35ECSA	Satin Anodized	GR35SA
GR35ECDU	Duranodic Bronze	GR35DU

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

FOR 4" (101.6 MM) DIAMETER CAP RAILING

CAT. NO.	FINISH	FITS CAP RAIL NO.
GR40ECBS	Brushed Stainless	GR40BS
GR40ECPS	Polished Stainless	GR40PS
GR40ECPB	Polished Brass	GR40PB
GR40ECSB	Satin Brass	GR40SB

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

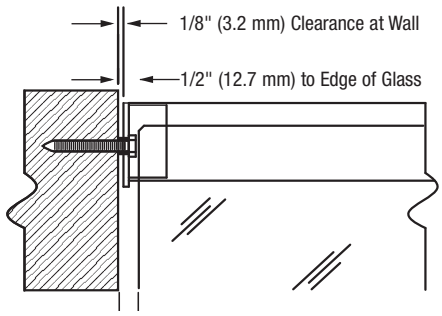
FOR 4" X 2-1/2" (101.6 X 63.5 MM) OVAL CAP RAILING

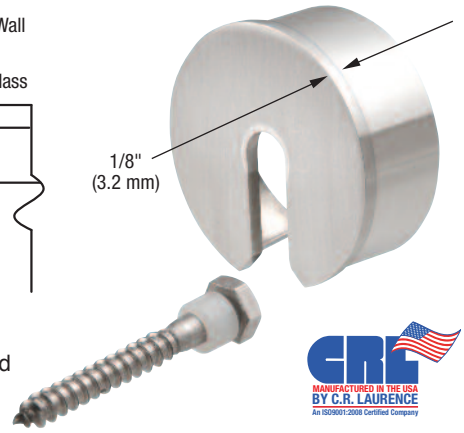
CAT. NO.	FINISH	FITS CAP RAIL NO.
GR0V4ECM	Mill Aluminum	GR0V4M
GR0V4ECSA	Satin Anodized	GR0V4SA
GR0V4ECDU	Duranodic Bronze	GR0V4DU

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

CRL Stabilizing End Caps for Cap Railings

- **Formed and Shaped to Fit**
- **Ready to Install**
- **Six Architectural Finishes Plus Mill Aluminum**





CRL Stabilizing End Caps easily slip into our Cap Railing. Use of our Cat. No. 32629 Metal Contact Cement (see page B337) is required to achieve a secure and permanent bond. Standard stainless alloy is 304. Stainless alloy 316 is available on special order. For brass, alloy 260 is standard. Includes: 1/4" (6.3 mm) x 2" (50.8 mm) Lag Screw with 1/4" (6.3 mm) nylon spacer.

FOR 1-1/2" (38.1 MM) DIAMETER CAP RAILING

CAT. NO.	FINISH	FITS CAP RAIL NO.
GR15SECBS	Brushed Stainless	GR15BS
GR15SECPS	Polished Stainless	GR15PS
GR15SECPB	Polished Brass	GR15PB
GR15SECSB	Satin Brass	GR15SB

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

FOR 1.66" (42.2 MM) DIAMETER CAP RAILING

CAT. NO.	FINISH	FITS CAP RAIL NO.
GR16SECBS	Brushed Stainless	GR16BS
GR16SECPS	Polished Stainless	GR16PS

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

FOR 1.9" (48.3 MM) DIAMETER CAP RAILING

CAT. NO.	FINISH	FITS CAP RAIL NO.
GR19SECM	Mill Aluminum	GR19M
GR19SECSA	Satin Anodized	GR19SA
GR19SECDU	Duranodic Bronze	GR19DU

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

FOR 2" (50.8 MM) DIAMETER CAP RAILING

CAT. NO.	FINISH	FITS CAP RAIL NO.
GR20SECBS	Brushed Stainless	GR20BS/GR207BS
GR20SECPS	Polished Stainless	GR20PS/GR207PS
GR20SECPB	Polished Brass	GR20PB/GR207PB
GR20SECSB	Satin Brass	GR20SB/GR207SB

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

FOR 2-1/2" (63.5 MM) DIAMETER CAP RAILING

CAT. NO.	FINISH	FITS CAP RAIL NO.
GR25SECBS	Brushed Stainless	GR25BS/GR257BS
GR25SECPS	Polished Stainless	GR25PS/GR257PS
GR25SECPB	Polished Brass	GR25PB/GR257PB
GR25SECSB	Satin Brass	GR25SB/GR257SB
GR25SECM	Mill Aluminum	GR25M
GR25SECSA	Satin Anodized	GR25SA
GR25SECDU	Duranodic Bronze	GR25DU

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

FOR 3" (76.2 MM) DIAMETER CAP RAILING

CAT. NO.	FINISH	FITS CAP RAIL NO.
GR30SECBS	Brushed Stainless	GR30BS/GR307BS
GR30SECPS	Polished Stainless	GR30PS/GR307PSG
GR30SECPB	Polished Brass	R30PB/GR307PB
GR30SECSB	Satin Brass	GR30SB/GR307SB
GR30SECM	Mill Aluminum	GR30M/GR307M
GR30SECSA	Satin Anodized	GR30SA/GR307SA
GR30SECDU	Duranodic Bronze	GR30DU/GR307DU

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

FOR 3-1/2" (88.9 MM) DIAMETER CAP RAILING

CAT. NO.	FINISH	FITS CAP RAIL NO.
GR35SECBS	Brushed Stainless	GR35BS
GR35SECPS	Polished Stainless	GR35PS
GR35SECPB	Polished Brass	GR35PB
GR35SECSB	Satin Brass	GR35SB
GR35SECM	Mill Aluminum	GR35M
GR35SECSA	Satin Anodized	GR35SA
GR35SECDU	Duranodic Bronze	GR35DU

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

FOR 4" (101.6 MM) DIAMETER CAP RAILING

CAT. NO.	FINISH	FITS CAP RAIL NO.
GR40SECBS	Brushed Stainless	GR40BS
GR40SECPS	Polished Stainless	GR40PS
GR40SECPB	Polished Brass	GR40PB
GR40SECSB	Satin Brass	GR40SB

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

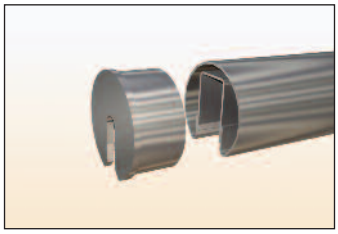
FOR 4" X 2-1/2" (101.6 X 63.5 MM) OVAL CAP RAILING

CAT. NO.	FINISH	FITS CAP RAIL NO.
GR0V4SECM	Mill Aluminum	GR0V4M
GR0V4SECSA	Satin Anodized	GR0V4SA
GR0V4SECDU	Duranodic Bronze	GR0V4DU

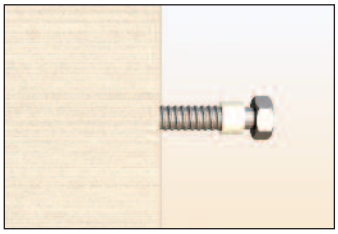
Minimum order: 1 each. All sizes and finishes can be combined for quantity pricing.

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**.

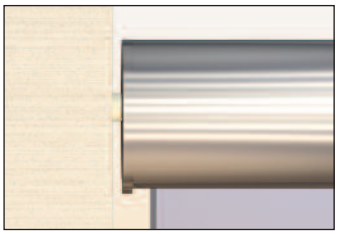


1. Insert Stabilizing End Cap into Cap Rail and secure with Metal Contact Cement.



2. Install Anchor Bolt 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.



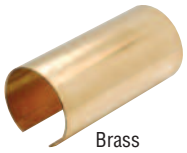
4. Secure Cap Rail to glass using 95CBL Silicone and shims.

CRL GRS CAP RAILING SYSTEMS

CRL Connector Sleeves for Laminated Cap Railing

- Formed, Shaped to Fit
- Ready to Install
- Provide Proper Alignment at Splices

Stainless Steel


Brass

new

CRL Laminated 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.

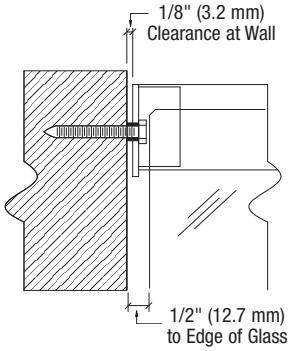
CAT. NO.	FOR USE WITH	MATERIALS
L20CSS	2" (50.8 mm) LR20 Cap Railing and Corners	Stainless Steel
L25CSS	2-1/2" (63.5 mm) LR25 Cap Railing and Corners	Stainless Steel
L20CSB	2" (50.8 mm) LR20 Cap Railing and Corners	Satin Brass
L25CSB	2-1/2" (63.5 mm) LR25 Cap Railing and Corners	Satin Brass

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

CRL Stabilizing End Caps for Laminated Cap Railing

- Formed and Shaped to Fit Cap Railing
- Ready to Install

new



CRL Stabilizing End Caps easily slip into our Cap Railing. Use of our 32629 Metal Contact Cement (see page B337) is required to achieve a secure and permanent bond. Standard stainless alloy is 316. For brass alloy 260 is standard. Includes 1/4" (6.3 mm) x 2" (50.8 mm) lag screw with 1/4" (6.3 mm) nylon spacer.

CAT. NO. FOR 2" (50.8 MM)	CAT. NO. FOR 2-1/2" (63.5 MM)	FINISH
LR20SECBS	LR25SECBS	Brushed Stainless
LR20SECPS	LR25SECPS	Polished Stainless
LR20SECPB	LR25SECPB	Polished Brass
LR20SECSB	LR25SECSB	Satin Brass

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

CRL End Caps for Laminated Cap Railing

- Formed and Shaped to Fit
- Ready to Install

new

This CRL End Cap easily slips into the Cap Railing. Use of our 32629 Metal Contact Cement (see page B337) is required to achieve a secure and permanent bond. Standard stainless alloy is 316. Alloy 260 is standard for brass.

CAT. NO. FOR 2" (50.8 MM)	CAT. NO. FOR 2-1/2" (63.5 MM)	FINISH
LR20ECBS	LR25ECBS	Brushed Stainless
LR20ECPS	LR25ECPS	Polished Stainless
LR20ECPB	LR25ECPB	Polished Brass
LR20ECSB	LR25ECSB	Satin Brass

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

CRL Cap Rail Rubber Inserts

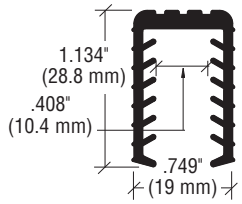
new

- Provides Secure Fit Between Glass and Cap Rail

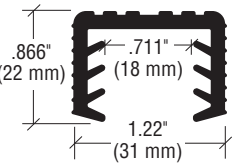
CRL Cap Rail Rubber Inserts are made of a flexible black rubber designed for our Cap Rails when using 9/16", 27/32", or 1-1/16" (13.52, 21.52, or 25.52 mm) laminated glass.

CAT. NO.	FITS CAP RAILS	USE WITH LAMINATED	ROLL LENGTH
LR56PV	GR19, GR20, GR25, GR30, GR35, GR40, GROV4 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)

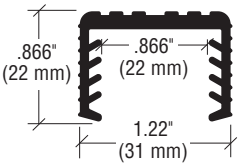
Minimum order: 1 roll.



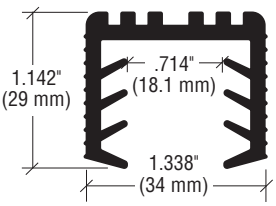
CAT. NO. LR56PV



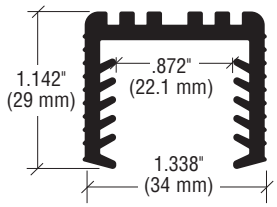
CAT. NO. LR21PV



CAT. NO. LR22PV



CAT. NO. LR251PV



CAT. NO. LR252PV

CRL Horizontal Corners for Laminated Glass Applications

- New for Laminated Glass
- Welded and Finished
- Four Architectural Finishes

CRL's Laminated Horizontal Corners for 27/32" (21.52 mm) and 1-1/16" (25.52 mm) thick laminated glass allows hairline joint assemblies with straight lengths of CRL Laminated Cap Railing. Use of our Cat. No. 32629 Metal Contact Cement (see page B337) is required to achieve a secure and permanent bond. Two Connector Sleeves are required for use with each corner (see page B182). Each Laminated Horizontal Corner is fabricated, finished, and individually packed. Standard stainless alloy is 316. Please contact CRL Technical Sales for more information or a quote.

CRL 90 Degree Horizontal Corners for 27/32" (21.52 mm) and 1-1/16" (25.52 mm) Laminated Glass

- Welded and Finished
- Ready to Install
- Requires Two Connector Sleeves (Not Included)

new

This CRL slip-fit Horizontal Corner for 27/32" (21.52 mm) or 1-1/16" (25.52 mm) thick laminated glass allows for hairline joint assemblies with straight lengths of CRL Cap Railing. Use of our 32629 Metal Contact Cement (see page B337 is required to achieve a secure and permanent bond. Two Connector Sleeves are required for use with each Corner.

CORNERS FOR 2" (50.8 MM) DIAMETER CAP

CAT. NO.	FINISH	DIMENSIONS
L20HBS	Brushed Stainless	L = 4" (101.6 mm)
L20HPS	Polished Stainless	
L20HPB	Polished Brass	C = 3" (76.2 mm)
L20HSB	Satin Brass	

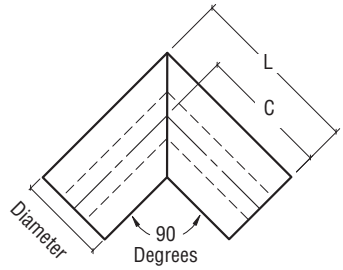
Minimum order: 1 each. Sizes and finishes can be combined for quantity pricing.

CORNERS FOR 2-1/2" (63.5 MM) DIAMETER CAP

CAT. NO.	FINISH	DIMENSIONS
L25HBS	Brushed Stainless	L = 4-1/2" (114.3 mm)
L25HPS	Polished Stainless	
L25HPB	Polished Brass	C = 3-1/4" (82.6 mm)
L25HSB	Satin Brass	

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

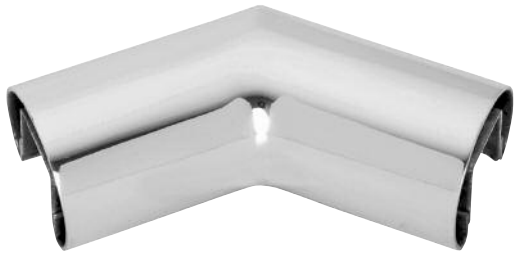
See page B182 for Connector Sleeves



CRL 135 Degree Horizontal Corners for 27/32" (21.52 mm) and 1-1/16" (25.52 mm) Laminated Glass

- Welded and Finished
- Ready to Install
- Requires Two Connector Sleeves (Not Included)

new



This CRL slip-fit Horizontal Corner for 27/32" (21.52 mm) or 1-1/16" (25.52 mm) thick laminated glass allows for hairline joint assemblies with straight lengths of CRL Cap Railing. Use of our 32629 Metal Contact Cement (see page B337) is required to achieve a secure and permanent bond. Two Connector Sleeves are required for use with each Corner.

CORNERS FOR 2" (50.8 MM) DIAMETER CAP

CAT. NO.	FINISH	DIMENSIONS
L20H3BS	Brushed Stainless	L = 2-3/4" (69.9 mm)
L20H3PS	Polished Stainless	
L20H3PB	Polished Brass	C = 2-5/16" (58.7 mm)
L20H3SB	Satin Brass	

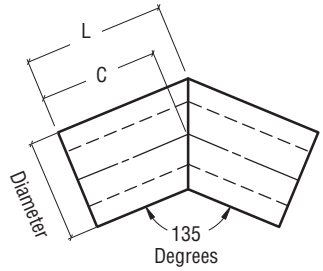
Minimum order: 1 each. Sizes and finishes can be combined for quantity pricing.

CORNERS FOR 2-1/2" (63.5 MM) DIAMETER CAP

CAT. NO.	FINISH	DIMENSIONS
L25H3BS	Brushed Stainless	L = 3" (76.2 mm)
L25H3PS	Polished Stainless	
L25H3PB	Polished Brass	C = 2-1/2" (63.5 mm)
L25H3SB	Satin Brass	

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

See page B182 for Connector Sleeves

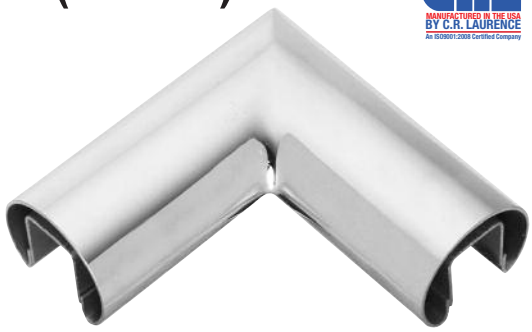


CRL 90 Degree Horizontal Corners for 1/2" (12 mm) or 5/8" (16 mm) Glass Cap Railings

- **Welded, Finished, and Ready to Install**
- **Four Architectural Finishes Plus Mill Aluminum**
- **New Oval Corner in Mill Aluminum**
- **Requires Two Connector Sleeves (Not Included)**

Interior slip-fit Horizontal Corners for 1/2" (12 mm) or 5/8" (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 B337) is required to achieve a secure and permanent bond. Two Connector Sleeves are required for use with each corner (see page B188).

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. Our aluminum corners are welded for painted finishes only. Standard stainless alloy is 304. Stainless alloy 316 is available on special order. For brass, alloy 260 is standard. Please contact CRL Technical Sales for more information or a quote.



NOTE: With the exception of the GR15 Series Cap Rail Corners, when used with 1/2" (12 mm) glass, our GR5PV Cap Rail Vinyl (see page B199) and 95CBL Silicone (see page B154) should be used to secure the glass. When using GR15 Series Cap Rail Corners or 5/8" (16 mm) glass, use 95CBL Silicone (see page B154) and shims only to secure the glass.

1-1/2" (38.1 MM) DIAMETER CAP CORNERS

CAT. NO.	FINISH	DIMENSIONS
GR15HBS	Brushed Stainless	L=3-3/4" (95.3 mm)
GR15HPS	Polished Stainless	C=3" (76.2 mm)
GR15HPB	Polished Brass	
GR15HSB	Satin Brass	

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

1.66" (42.2 MM) DIAMETER CAP CORNERS

CAT. NO.	FINISH	DIMENSIONS
GR16HBS	Brushed Stainless	L=4" (101.6 mm)
GR16HPS	Polished Stainless	C=3-3/16" (80.9 mm)

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

1.9" (48.3 MM) DIAMETER CAP CORNER

CAT. NO.	FINISH	DIMENSIONS
GR19HM	Mill Aluminum	L=6" (152.4 mm)
		C=5-1/16" (128.6 mm)

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

2" (50.8 MM) DIAMETER CAP CORNERS

CAT. NO.	FINISH	DIMENSIONS
GR20HBS	Brushed Stainless	L=4" (101.6 mm)
GR20HPS	Polished Stainless	C=3" (76.2 mm)
GR20HPB	Polished Brass	
GR20HSB	Satin Brass	

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

2-1/2" (63.5 MM) DIAMETER CAP CORNERS

CAT. NO.	FINISH	DIMENSIONS
GR25HBS	Brushed Stainless	L=4-1/2" (114.3 mm)
GR25HPS	Polished Stainless	C=3-1/4" (82.6 mm)
GR25HPB	Polished Brass	
GR25HSB	Satin Brass	
CAT. NO.	FINISH	DIMENSIONS
GR25HM	Mill Aluminum	L=6" (152.4 mm)
		C=4-3/4" (120.7 mm)

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

3" (76.2 MM) DIAMETER CAP CORNERS

CAT. NO.	FINISH	DIMENSIONS
GR30HBS	Brushed Stainless	L=5" (127 mm)
GR30HPS	Polished Stainless	C=3-1/2" (88.9 mm)
GR30HPB	Polished Brass	
GR30HSB	Satin Brass	
CAT. NO.	FINISH	DIMENSIONS
GR30HM	Mill Aluminum	L=6" (152.4 mm)
		C=4-1/2" (114.3 mm)

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

3-1/2" (88.9 MM) DIAMETER CAP CORNERS

CAT. NO.	FINISH	DIMENSIONS
GR35HBS	Brushed Stainless	L=5-1/2" (139.7 mm)
GR35HPS	Polished Stainless	C=3-3/4" (95.3 mm)
GR35HPB	Polished Brass	
GR35HSB	Satin Brass	
CAT. NO.	FINISH	DIMENSIONS
GR35HM	Mill Aluminum	L=6" (152.4 mm)
		C=4-1/4" (108 mm)

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

4" (101.6 MM) DIAMETER CAP CORNERS

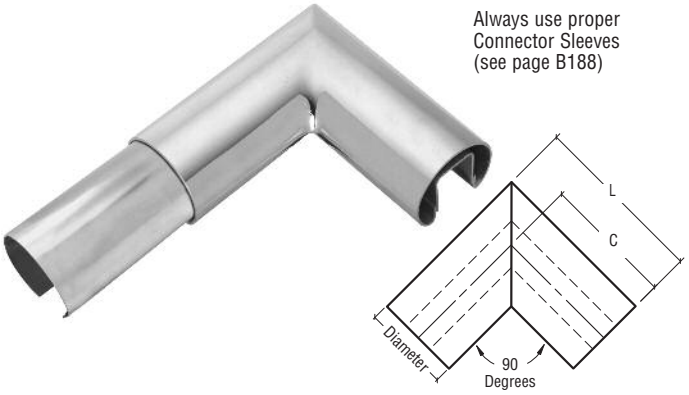
CAT. NO.	FINISH	DIMENSIONS
GR40HBS	Brushed Stainless	L=6" (152.4 mm)
GR40HPS	Polished Stainless	C=4" (101.6 mm)
GR40HPB	Polished Brass	
GR40HSB	Satin Brass	

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

4" X 2-1/2" (101.6 X 63.5 MM) OVAL CAP CORNERS

CAT. NO.	FINISH	DIMENSIONS
GR0V4HM	Mill Aluminum	L=6" (152.4 mm)
		C=4" (101.6 mm)

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



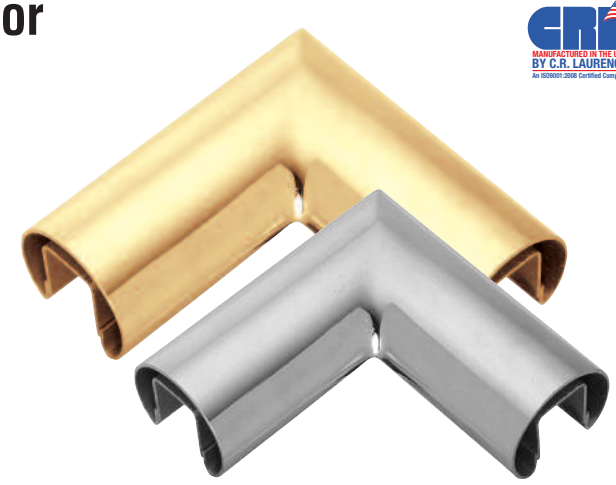
Always use proper Connector Sleeves (see page B188)

CRL 90 Degree Horizontal Corners for 3/4" (19 mm) Glass Cap Railings

- **Ready to Install**
- **Variety of Architectural Finishes**
- **Requires Two Connector Sleeves (Not Included)**

Interior slip-fit Horizontal Corners for 3/4" (19 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 B337) is required to achieve a secure and permanent bond. Two Connector Sleeves are required for use with each corner (see page B188).

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 alloy is 304. Stainless alloy 316 is available on special order. For brass, alloy 260 is standard. Our mill aluminum corners are welded for painted finishes only. For all anodized finishes please see page B189 for Internal Corner Splices that create an architecturally pleasing mitered joint. Please contact CRL Technical Sales for more information or a quote.



NOTE: Our GR7PV Cap Rail Vinyl (see page B199) and 95CBL Silicone (see page B154) should be used to secure the glass.

2" (50.8 MM) DIAMETER CAP CORNERS

CAT. NO.	FINISH	DIMENSIONS
GR207HBS	Brushed Stainless	L=4" (101.6 mm)
GR207HPS	Polished Stainless	C=3" (76.2 mm)
GR207HPB	Polished Brass	
GR207HSB	Satin Brass	

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

2-1/2" (63.5 MM) DIAMETER CAP CORNERS

CAT. NO.	FINISH	DIMENSIONS
GR257HBS	Brushed Stainless	L=4-1/2" (114.3 mm)
GR257HPS	Polished Stainless	C=3-1/4" (82.6 mm)
GR257HPB	Polished Brass	
GR257HSB	Satin Brass	

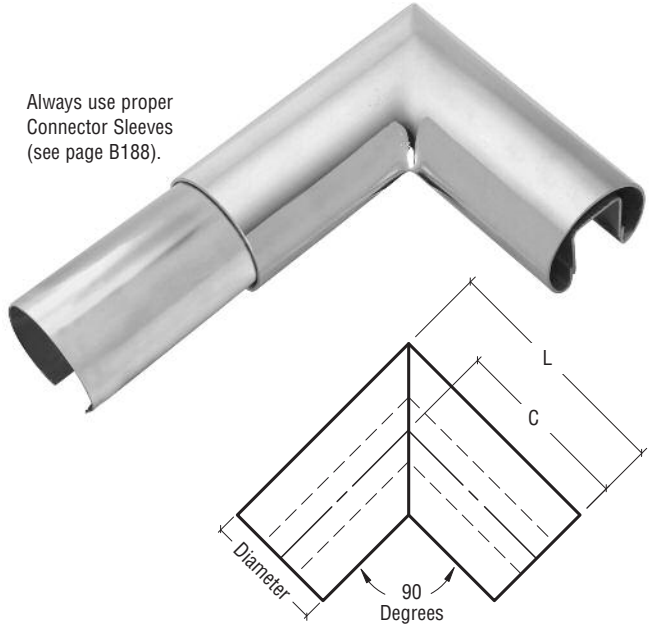
Minimum order: 1 each. All sizes and finishes can be combined for quantity pricing.

3" (76.2 MM) DIAMETER CAP CORNERS

CAT. NO.	FINISH	DIMENSIONS
GR307HBS	Brushed Stainless	L=5" (127 mm)
GR307HPS	Polished Stainless	C=3-1/2" (88.9 mm)
GR307HPB	Polished Brass	
GR307HSB	Satin Brass	
GR307HM	Mill Aluminum	

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

Always use proper Connector Sleeves (see page B188).



CRL Premium Formed Cap Rail Accessories

Corners

See pages B183 to B187

Connector Sleeves

See page B188

End Caps

See page B180

Contact Cement

See page B337

CRL 135 Degree Horizontal Corners for 1/2" (12 mm) or 5/8" (16 mm) Glass Cap Railings

- Welded and Finished
- Ready to Install
- Four Architectural Finishes Plus Mill Aluminum
- New Oval Corner in Mill Aluminum
- Requires Two Connector Sleeves (Not Included)

Interior slip-fit Horizontal Corners for 1/2" (12 mm) or 5/8" (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 B337) is required to achieve a secure and permanent bond. Two Connector Sleeves are required for use with each corner (see page B188).

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. Our mill aluminum corners are welded for painted finishes only. Standard stainless alloy is 304. Stainless alloy 316 is available on special order. For brass, alloy 260 is standard. For all anodized finishes please see page B189 for Internal Corner Splices that create an architecturally pleasing mitered joint. Please contact CRL Technical Sales for more information or a quote.

1-1/2" (38.1 MM) DIAMETER CAP CORNERS

CAT. NO.	FINISH	DIMENSIONS
GR15H3BS	Brushed Stainless	L=2-1/2" (63.5 mm)
GR15H3PS	Polished Stainless	C=2-3/16" (55.6 mm)
GR15H3PB	Polished Brass	
GR15H3SB	Satin Brass	

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

1.66" (42.2 MM) DIAMETER CAP CORNERS

CAT. NO.	FINISH	DIMENSIONS
GR16SH3BS	Brushed Stainless	L=2-3/4" (69.9 mm)
GR16SH3PS	Polished Stainless	C=2-3/8" (60.3 mm)

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

1.9" (48.3 MM) DIAMETER CAP CORNERS

CAT. NO.	FINISH	DIMENSIONS
GR19H3M	Mill Aluminum	L=6" (152.4 mm)
		C=5-9/16" (141.3 mm)

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

2" (50.8 MM) DIAMETER CAP CORNERS

CAT. NO.	FINISH	DIMENSIONS
GR20H3BS	Brushed Stainless	L=2-3/4" (69.9 mm)
GR20H3PS	Polished Stainless	C=2-5/16" (58.7 mm)
GR20H3PB	Polished Brass	
GR20H3SB	Satin Brass	

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

2-1/2" (63.5 MM) DIAMETER CAP CORNERS

CAT. NO.	FINISH	DIMENSIONS
GR25H3BS	Brushed Stainless	L=3" (76.2 mm)
GR25H3PS	Polished Stainless	C=2-1/2" (63.5 mm)
GR25H3PB	Polished Brass	
GR25H3SB	Satin Brass	
CAT. NO.	FINISH	DIMENSIONS
GR25H3M	Mill Aluminum	L=6" (152.4 mm)
		C=5-1/2" (139.7 mm)

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

NOTE: With the exception of the GR15 Series Cap Rail Corners, when used with 1/2" (12 mm) glass, our GR5PV Cap Rail Vinyl (see page B199) and 95CBL Silicone should be used to secure the glass. When using GR15 Series Cap Rail Corners or 5/8" (16 mm) glass, use 95CBL Silicone and shims only to secure the glass.

3" (76.2 MM) DIAMETER CAP CORNERS

CAT. NO.	FINISH	DIMENSIONS
GR30H3BS	Brushed Stainless	L=5" (127 mm)
GR30H3PS	Polished Stainless	C=4-3/8" (88.9 mm)
GR30H3PB	Polished Brass	
GR30H3SB	Satin Brass	
CAT. NO.	FINISH	DIMENSIONS
GR30H3M	Mill Aluminum	L=6" (152.4 mm)
		C=5-3/8" (136.5 mm)

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

3-1/2" (89.9 MM) DIAMETER CAP CORNERS

CAT. NO.	FINISH	DIMENSIONS
GR35H3BS	Brushed Stainless	L=5-1/2" (139.7 mm)
GR35H3PS	Polished Stainless	C=4-3/4" (95.3 mm)
GR35H3PB	Polished Brass	
GR35H3SB	Satin Brass	
CAT. NO.	FINISH	DIMENSIONS
GR35H3M	Mill Aluminum	L=6" (152.4 mm)
		C=5-1/4" (133.4 mm)

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

4" (101.6 MM) DIAMETER CAP CORNERS

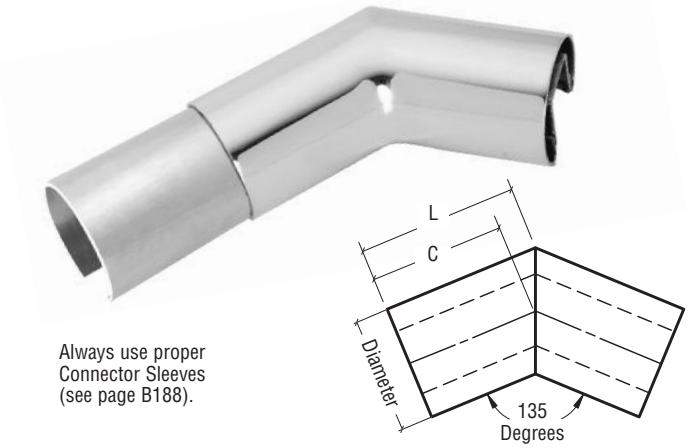
CAT. NO.	FINISH	DIMENSIONS
GR40H3BS	Brushed Stainless	L=6" (152.4 mm)
GR40H3PS	Polished Stainless	C=5-3/16" (131.8 mm)
GR40H3PB	Polished Brass	
GR40H3SB	Satin Brass	

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

4" X 2-1/2" (101.6 X 63.5 MM) OVAL CAP CORNERS

CAT. NO.	FINISH	DIMENSIONS
GR0V4H3M	Mill Aluminum	L=6" (152.4 mm)
		C=5-3/16" (131.8 mm)

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



Always use proper Connector Sleeves (see page B188).

CRL 135 Degree Horizontal Corners for 3/4" (19 mm) Glass Cap Railings

- **Ready to Install**
- **Variety of Architectural Finishes**
- **Requires Two Connector Sleeves (Not Included)**

Interior slip-fit Horizontal Corners for 3/4" (19 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 B337) is required to achieve a secure and permanent bond. Two Connector Sleeves are required for use with each corner (see page B188).

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 alloy is 304. Stainless alloy 316 is available on special order. For brass, alloy 260 is standard. Our mill aluminum corners are welded for painted finishes only. For all anodized finishes please see page B189 for Internal Corner Splices that create an architecturally pleasing mitered joint. Please contact CRL Technical Sales for more information or a quote.

NOTE: Our GR7PV Cap Rail Vinyl (see page B199) and 95CBL Silicone (see page B154) should be used to secure the glass.

Always use proper Connector Sleeves (see page B188)

2" (50.8 MM) DIAMETER CAP CORNERS

CAT. NO.	FINISH	DIMENSIONS
GR207H3BS	Brushed Stainless	L=2-3/4" (69.9 mm)
GR207H3PS	Polished Stainless	C=2-5/16" (58.7 mm)
GR207H3PB	Polished Brass	
GR207H3SB	Satin Brass	

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

2-1/2" (63.5 MM) DIAMETER CAP CORNERS

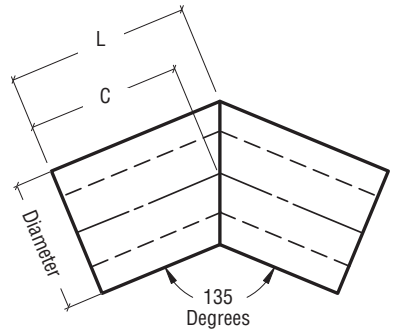
CAT. NO.	FINISH	DIMENSIONS
GR257H3BS	Brushed Stainless	L=3" (76.2 mm)
GR257H3PS	Polished Stainless	C=2-1/2" (63.5 mm)
GR257H3PB	Polished Brass	
GR257H3SB	Satin Brass	

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

3" (76.2 MM) DIAMETER CAP CORNERS

CAT. NO.	FINISH	DIMENSIONS
GR307H3BS	Brushed Stainless	L=5" (127 mm)
GR307H3PS	Polished Stainless	C=4-3/8" (111.1 mm)
GR307H3PB	Polished Brass	
GR307H3SB	Satin Brass	
GR307H3M	Mill Aluminum	

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



CRL Premium Formed Cap Rail Accessories

Corners

See pages B183 to B187

Connector Sleeves

See page B188

End Caps

See page B180

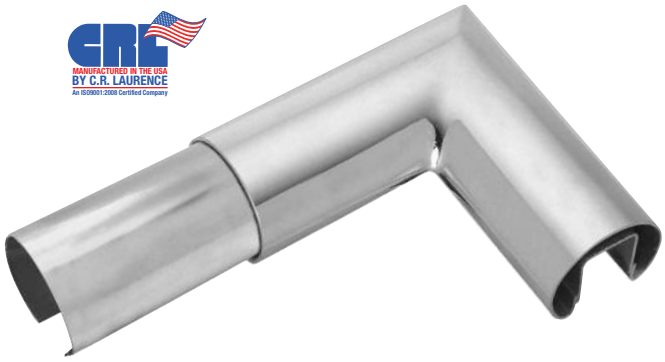
Contact Cement

See page B337

CRL Connector Sleeves for Cap Railings, Cap Rail Corners, and Hand 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. 32629 Metal Contact Cement (see page B337) is required to achieve a secure and permanent bond.



FOR 1-1/2" (38.1 MM) ROUND RAILING

CAT. NO.	MATERIAL	1-1/2" (38.1 MM) FOR USE WITH
GR15CSS	Stainless Steel	GR15BS/GR15PS Cap Rails and all 1-1/2" (38.1 mm) Stainless Steel Cap Rail Corners. HR15BS/HR15PS 1-1/2" (38.1 mm) Stainless Steel Hand Rails.
GR15CSB	Brass	GR15PB/GR15SB Cap Rails and all 1-1/2" (38.1 mm) Brass Cap Rail Corners. HR15PB/HR15SB 1-1/2" (38.1 mm) Brass Hand Rails.

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 1.66" (42.2 MM) ROUND RAILING

CAT. NO.	MATERIAL	1.66" (42.2 MM) FOR USE WITH
GR16CSS	Stainless Steel	GR16BS/GR16PS Cap Rails and all 1.66" (42.2 mm) Stainless Steel Cap Rail Corners.

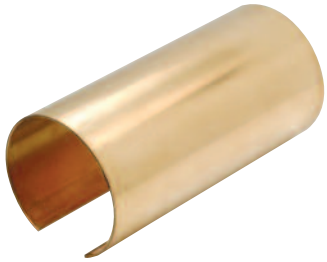
Stainless Steel

FOR 1.9" (48.3 MM) ROUND RAILING

CAT. NO.	MATERIAL	1.9" (48.3 MM) FOR USE WITH
GR19CSM	Mill Aluminum	GR19M/GR19SA/GR19DU Cap Rails and all 1.9" (48.3 mm) Aluminum Cap Rail Corners. HR19M/HR19SA/HR19DU 1.9" (48.3 mm) Aluminum Hand Rails.

FOR 2" (50.8 MM) ROUND RAILING

CAT. NO.	MATERIAL	2" (50.8 MM) FOR USE WITH
GR20CSS	Stainless Steel	GR20BS/GR20PS/GR207BS/GR207PS Cap Rails and all 2" (50.8 mm) Stainless Steel Cap Rail Corners. HR20BS/HR20PS 2" (50.8 mm) Stainless Steel Hand Rails.
GR20CSB	Brass	GR20PB/GR20SB Cap Rails and all 2" (50.8 mm) Brass Cap Rail Corners. HR20PB/HR20SB 2" (50.8 mm) Brass Hand Rails.



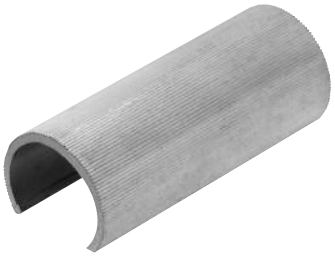
Brass

FOR 2-1/2" (63.5 MM) ROUND RAILING

CAT. NO.	MATERIAL	2-1/2" (63.5 MM) FOR USE WITH
GR25CSS	Stainless Steel	GR25BS/GR25PS/GR257BS/GR257PS Cap Rails and all 2-1/2" (63.5 mm) Stainless Steel Cap Rail Corners.
GR25CSB	Brass	GR25PB/GR25SB/GR257PB/GR257SB Cap Rails and all 2-1/2" (63.5 mm) Brass Cap Rail Corners.
GR25CSM	Mill Aluminum	GR25M/GR25SA/GR25DU Cap Rails and all 2-1/2" (63.5 mm) Aluminum Cap Rail Corners.

FOR 3" (76.2 MM) ROUND RAILING

CAT. NO.	MATERIAL	3" (76.2 MM) FOR USE WITH
GR30CSS	Stainless Steel	GR30BS/GR30PS/GR307BS/GR307PS Cap Rails and all 3" (76.2 mm) Stainless Steel Cap Rail Corners.
GR30CSB	Brass	GR30PB/GR30SB/GR307PB/GR307SB Cap Rails and all 3" (76.2 mm) Brass Cap Rail Corners.
GR30CSM	Mill Aluminum	GR30M/GR30SA/GR30DU Cap Rails and all 3" (76.2 mm) Aluminum Cap Rail Corners.



Mill Aluminum

FOR 3-1/2" (88.9 MM) ROUND RAILING

CAT. NO.	MATERIAL	3-1/2" (88.9 MM) FOR USE WITH
GR35CSS	Stainless Steel	GR35BS/GR35PS Cap Rails and all 3-1/2" (88.9 mm) Stainless Steel Cap Rail Corners.
GR35CSB	Brass	GR35PB/GR35SB Cap Rails and all 3-1/2" (88.9 mm) Brass Cap Rail Corners.
GR35CSM	Mill Aluminum	GR35M/GR35SA/GR35DU Cap Rails and all 3-1/2" (88.9 mm) Aluminum Cap Rail Corners.

FOR 4" (101.6 MM) ROUND RAILING

CAT. NO.	MATERIAL	4" (101.6 MM) FOR USE WITH
GR40CSS	Stainless Steel	GR40BS/GR40PS Cap Rails and all 4" (101.6 mm) Stainless Steel Cap Rail Corners.

FOR 4" X 2-1/2" (101.6 X 63.5 MM) OVAL RAILING

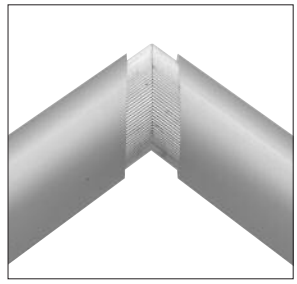
CAT. NO.	MATERIAL	4" X 2-1/2" (101.6 X 63.5 MM) OVAL FOR USE WITH
GR0V4CSM	Mill Aluminum	GR0V4M/GR0V4SA/GR0V4DU Cap Rails and all 4" x 2-1/2" (101.6 x 63.5 mm) Aluminum Corners.

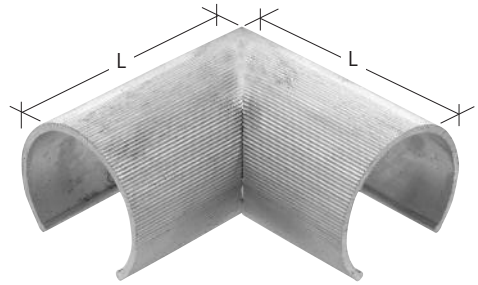
Mill Aluminum

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

CRL 90 Degree Horizontal Internal Splice Sleeves

- Ready to Install
- Provides Proper Alignment for Extruded Aluminum Top Cap at Splice Locations
- Custom Angles Are Also Available





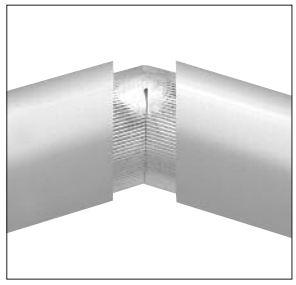
CRL 90 Degree Horizontal Internal Splice Sleeves are used to connect and provide proper alignment between our Extruded Aluminum Top Cap. The Splice Sleeves must be compressed to fit inside the Top Cap. Use of our Cat. No. 32629 Metal Contact Cement (See page B337) is required to achieve a secure and permanent bond at all connections.

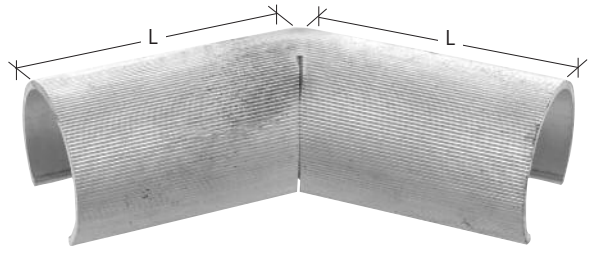
CAT. NO.	SPLICE SLEEVES FOR	"L" LENGTH	FOR USE WITH
1S1990M	1.9" (48.3 mm) Cap Rail	4" (101.6 mm)	GR19M, GR19SA, GR19DU
1S2590M	2-1/2" (63.5 mm) Cap Rail	4" (101.6 mm)	GR25M, GR25SA, GR25DU
1S3090M	3" (76.2 mm) Cap Rail	4" (101.6 mm)	GR30M, GR30SA, GR30DU
1S3590M	3-1/2" (88.9 mm) Cap Rail	5" (127 mm)	GR35M, GR35SA, GR30DU

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

CRL 135 Degree Horizontal Internal Splice Sleeves

- Ready to Install
- Provides Proper Alignment for Extruded Aluminum Top Cap at Splice Locations
- Custom Angles Are Also Available





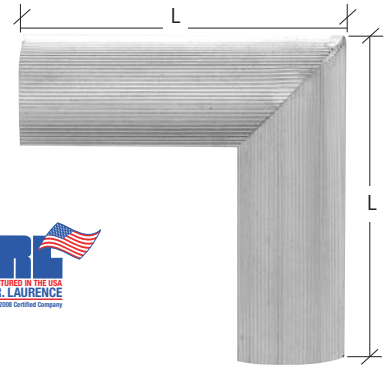
CRL 135 Degree Horizontal Internal Splice Sleeves are used to connect and provide proper alignment between our Extruded Aluminum Top Cap. The Splice Sleeves must be compressed to fit inside the Top Cap. Use of our Cat. No. 32629 Metal Contact Cement (See page B337) is required to achieve a secure and permanent bond at all connections.

CAT. NO.	SPLICE SLEEVES FOR	"L" LENGTH	FOR USE WITH
1S19135M	1.9" (48.3 mm) Cap Rail	4" (101.6 mm)	GR19M, GR19SA, GR19DU
1S25135M	2-1/2" (63.5 mm) Cap Rail	4" (101.6 mm)	GR25M, GR25SA, GR25DU
1S30135M	3" (76.2 mm) Cap Rail	4" (101.6 mm)	GR30M, GR30SA, GR30DU
1S35135M	3-1/2" (88.9 mm) Cap Rail	5" (127 mm)	GR35M, GR35SA, GR30DU

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

CRL 90 Degree Vertical Internal Splice Sleeves

- Ready to Install
- Provides Proper Alignment for Extruded Aluminum Top Cap at Splice Locations
- Custom Angles Are Also Available



CRL 90 Degree Vertical Internal Splice Sleeves are used to connect and provide proper alignment between our Extruded Aluminum Top Cap. The Splice Sleeves must be compressed to fit inside the Top Cap. Use of our Cat. No. 32629 Metal Contact Cement (See page B337) is required to achieve a secure and permanent bond at all connections.

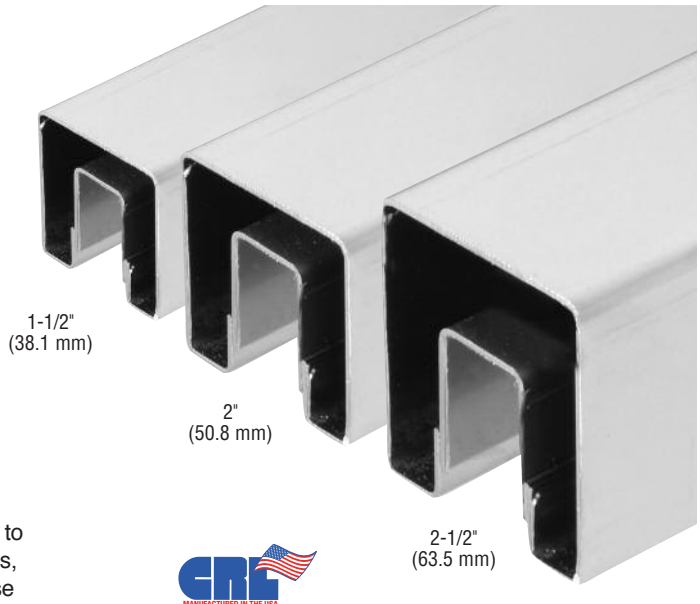
CAT. NO.	SPLICE SLEEVES FOR	"L" LENGTH	FOR USE WITH
1S19V90M	1.9" (48.3 mm) Cap Rail	4" (101.6 mm)	GR19M, GR19SA, GR19DU
1S25V90M	2-1/2" (63.5 mm) Cap Rail	4" (101.6 mm)	GR25M, GR25SA, GR25DU
1S30V90M	3" (76.2 mm) Cap Rail	4" (101.6 mm)	GR30M, GR30SA, GR30DU
1S35V90M	3-1/2" (88.9 mm) Cap Rail	5" (127 mm)	GR35M, GR35SA, GR30DU

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

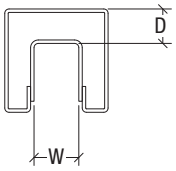
CRL GRS CAP RAILING SYSTEMS

CRL Premium Square Cap Rails for 1/2" (12 mm) to 5/8" (16 mm) Glass or 3/4" (19 mm) Glass

- 120" (3.05 m) Stock Lengths Available in Three Sizes and Two Architectural Finishes
- Compatible With Premium Corners
- Profiles Range From 1-1/2" (38.1 mm) to 2-1/2" (63.5 mm) Sizes
- 304 Stainless Alloy is Standard 316 Alloy Available on Special Order



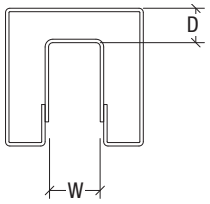
All CRL Premium Square Cap Rails are formed using precision tooling to maintain uniform profiles, allowing for smooth hairline transitions at splices, corners and end caps. The internal channel is welded in place to increase strength and stability for fabrication. Use of our Cat. No. 32629 Metal Contact Cement (see page B337) is required to achieve a secure and permanent bond at all connections.



1-1/2" (38.1 MM) SQUARE PREMIUM CAP RAIL IN 120" (3.05 M) LENGTHS

CAT. NO.	FINISH	"W" WIDTH	"D" DEPTH*	THICKNESS	USE SLEEVE NO.
GRS15BS	Brushed Stainless	5/8" (16 mm)	1/2" (12.7 mm)	.050" (1.27 mm)	GRS15CSS
GRS15PS	Polished Stainless	5/8" (16 mm)	1/2" (12.7 mm)	.050" (1.27 mm)	GRS15CSS

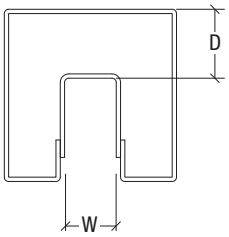
Minimum order: 1 each. Sizes and finishes can be combined for quantity pricing. Must ship common carrier.
NOTE: 1-1/2" (38.1 mm) Square Premium Cap Rail works only with 1/2" (12 mm) glass, secured with 95CBL Silicone and Shims.



2" (50.8 MM) SQUARE PREMIUM CAP RAIL IN 120" (3.05 M) LENGTHS

CAT. NO.	FINISH	"W" WIDTH	"D" DEPTH*	THICKNESS	USE SLEEVE NO.
GRS20BS	Brushed Stainless	3/4" (19 mm)	1/2" (12.7 mm)	.050" (1.27 mm)	GRS20CSS
GRS20PS	Polished Stainless	3/4" (19 mm)	1/2" (12.7 mm)	.050" (1.27 mm)	GRS20CSS

Minimum order: 1 each. Sizes and finishes can be combined for quantity pricing. Must ship common carrier.



2-1/2" (63.5 MM) SQUARE PREMIUM CAP RAIL IN 120" (3.05 M) LENGTHS

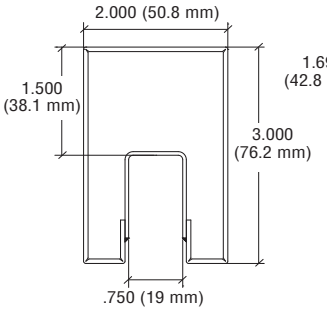
CAT. NO.	FINISH	"W" WIDTH	"D" DEPTH*	THICKNESS	USE SLEEVE NO.
GRS25BS	Brushed Stainless	3/4" (19 mm)	1" (25.4 mm)	.0625" (1.59 mm)	GRS25CSS
GRS25PS	Polished Stainless	3/4" (19 mm)	1" (25.4 mm)	.0625" (1.59 mm)	GRS25CSS

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 you desire or allow an additional 1/8" (3.2 mm) if using Cap Rail Vinyl (see page B199).

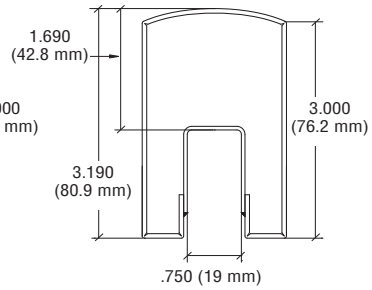
CRL Custom Profile Crisp Corner Cap Rails

- New Crisp Corner Design Custom Formed in Brushed and Polished Stainless Steel
- 304 Alloy 16 Gauge is Standard; 316 Alloy on Special Order
- Optional V-Grooves Can Be Added for a Distinctive Look

Our new 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.



GRSC3 Series
Crisp Corners with Flat Top



GRSCR3 Series
Crisp Corners with Radius Top

CRL Square Cap Horizontal Corners

- New Square Profile
- Welded and Finished
- Ready to Install
- Two Finishes Available
- Requires Two Connector Sleeves (Not Included)

Interior slip-fit Horizontal Corners for 1/2" (12 mm) to 5/8" (16 mm) thick glass allow for hairline joint assemblies with straight lengths of CRL Square Cap Rail. Use of our Cat. No. 32629 Metal Contact Cement (see page B337) is required to achieve a secure and permanent bond. Two Connector Sleeves are required for use with each corner (see page B192).

Each Horizontal Corner is fabricated, finished, and individually packed. All of our stainless corners are fabricated from CRL Premium Cap Rail, and are welded and finished to match. Standard stainless alloy is 304. Stainless alloy 316 is available on special order. Please contact CRL Technical Sales for more information or a quote.

CRL 90 Degree Square Cap Horizontal Corners for 1/2" (12 mm) to 5/8" (16 mm) Glass

1-1/2" (38.1 MM) SQUARE 90 DEGREE CAP CORNERS

CAT. NO.	FINISH	DIMENSIONS
GRS15HBS	Brushed Stainless	L= 3-3/4" (95.3 mm)
GRS15HPS	Polished Stainless	C= 3" (76.2 mm)

2" (50.8 MM) SQUARE 90 DEGREE CAP CORNERS

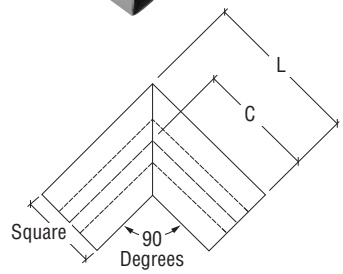
CAT. NO.	FINISH	DIMENSIONS
GRS20HBS	Brushed Stainless	L= 4" (101.6 mm)
GRS20HPS	Polished Stainless	C= 3" (76.2 mm)

2-1/2" (63.5 MM) SQUARE 90 DEGREE CAP CORNERS

CAT. NO.	FINISH	DIMENSIONS
GRS25HBS	Brushed Stainless	L= 4-1/2" (114.3 mm)
GRS25HPS	Polished Stainless	C= 3-1/4" (82.6 mm)

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

Always use proper Connector Sleeves (see page B192).



NOTE: With the exception of the GRS15 Series Cap Rail Corners, when used with 1/2" (12 mm) glass, our GR5PV Cap Rail Vinyl (see page B199) and 95CBL Silicone should be used to secure the glass. When using GRS15 Series Cap Rail Corners or 5/8" (16 mm) glass, use 95CBL Silicone and shims only to secure the glass.

CRL 135 Degree Square Cap Horizontal Corners for 1/2" (12 mm) to 5/8" (16 mm) Glass

1-1/2" (38.1 MM) SQUARE 135 DEGREE CAP CORNERS

CAT. NO.	FINISH	DIMENSIONS
GRS15H3BS	Brushed Stainless	L= 2-1/2" (63.5 mm)
GRS15H3PS	Polished Stainless	C= 2-3/16" (55.6 mm)

2" (50.8 MM) SQUARE 135 DEGREE CAP CORNERS

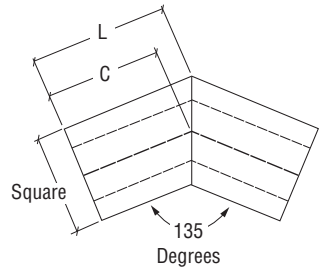
CAT. NO.	FINISH	DIMENSIONS
GRS20H3BS	Brushed Stainless	L= 2-3/4" (69.9 mm)
GRS20H3PS	Polished Stainless	C= 2-5/16" (58.7 mm)

2-1/2" (63.5 MM) SQUARE 135 DEGREE CAP CORNERS

CAT. NO.	FINISH	DIMENSIONS
GRS25H3BS	Brushed Stainless	L= 3" (76.2 mm)
GRS25H3PS	Polished Stainless	C= 2-1/2" (63.5 mm)

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

Always use proper Connector Sleeves (see page B192).



NOTE : With the exception of the GRS15H3 Series Cap Rail Corners, when used with 1/2" (12 mm) glass, our GR5PV Cap Rail Vinyl (see page B199) and 95CBL Silicone should be used to secure the glass. When using GRS15H3 Series Cap Rail Corners or 5/8" (16 mm) glass, use 95CBL Silicone and shims only to secure the glass.

CRL GRS CAP RAILING SYSTEMS

CRL Square Cap Connector Sleeves

- **Formed and Shaped to Fit, Ready to Install**
- **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 Cat. No. 32629 Metal Contact Cement (see page B337) is required to achieve a secure and permanent bond.

FOR 1-1/2" (38.1 MM) SQUARE CAP RAILING

CAT. NO.	MATERIAL	1-1/2" (38.1 MM) FOR USE WITH
GRS15CSS	Stainless Steel	GRS15BS/GRS15PS Cap Rails and all 1-1/2" Square Stainless Steel Cap Rail Corners

FOR 2" (50.8 MM) SQUARE CAP RAILING

CAT. NO.	MATERIAL	2" (50.8 MM) FOR USE WITH
GRS20CSS	Stainless Steel	GRS20BS/GRS20PS Cap Rails and all 2" Square Stainless Steel Cap Rail Corners

FOR 2-1/2" (63.5 MM) SQUARE CAP RAILING

CAT. NO.	MATERIAL	2-1/2" (63.5 MM) FOR USE WITH
GRS25CSS	Stainless Steel	GRS25BS/GRS25PS Cap Rails and all 2-1/2" Square Stainless Steel Cap Rail Corners

Minimum order: 1 each. All sizes and finishes 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.

CRL Square End Caps for Cap Railings

- **Formed and Shaped to Fit, Ready to Install**

CRL Square End Caps easily slip into the Square Cap Railing. Use of Cat. No. 32629 Metal Contact Cement (see page B337) is required to achieve a secure and permanent bond. Standard stainless alloy is 304. Stainless alloy 316 is available on special order.

FOR 1-1/2" (38.1 MM) SQUARE CAP RAILING

CAT. NO.	FINISH	FITS CAP RAIL NO.
GRS15ECBS	Brushed Stainless	GRS15BS
GRS15ECPS	Polished Stainless	GRS15PS

FOR 2" (50.8 MM) SQUARE CAP RAILING

CAT. NO.	FINISH	FITS CAP RAIL NO.
GRS20ECBS	Brushed Stainless	GRS20BS
GRS20ECPS	Polished Stainless	GRS20PS

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

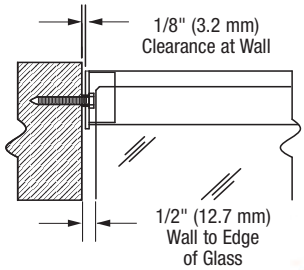
FOR 2-1/2" (63.5 MM) SQUARE CAP RAILING

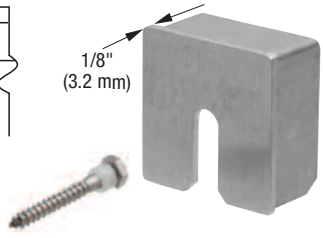
CAT. NO.	FINISH	FITS CAP RAIL NO.
GRS25ECBS	Brushed Stainless	GRS25BS
GRS25ECPS	Polished Stainless	GRS25PS

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

CRL Square Stabilizing End Caps for Cap Railings

- **Formed and Shaped to Fit**





CRL Square Stabilizing End Caps easily slip into our Square Cap Railing. Use of Cat. No. 32629 Metal Contact Cement (see page B337) is required to achieve a secure and permanent bond. Standard stainless alloy is 304. Stainless alloy 316 is available on special order. Includes: 1/4" (6.3 mm) x 2" (50.8 mm) Lag Screw with 1/4" (6.3 mm) nylon spacer.

FOR 1-1/2" (38.1 MM) SQUARE CAP RAILING

CAT. NO.	FINISH	FITS CAP RAIL NO.
GRS15SECBS	Brushed Stainless	GRS15BS
GRS15SECPS	Polished Stainless	GRS15PS

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

FOR 2" (50.8 MM) SQUARE CAP RAILING

CAT. NO.	FINISH	FITS CAP RAIL NO.
GRS20SECBS	Brushed Stainless	GRS20BS
GRS20SECPS	Polished Stainless	GRS20PS

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

FOR 2-1/2" (63.5 MM) SQUARE CAP RAILING

CAT. NO.	FINISH	FITS CAP RAIL NO.
GRS25SECBS	Brushed Stainless	GRS25BS
GRS25SECPS	Polished Stainless	GRS25PS

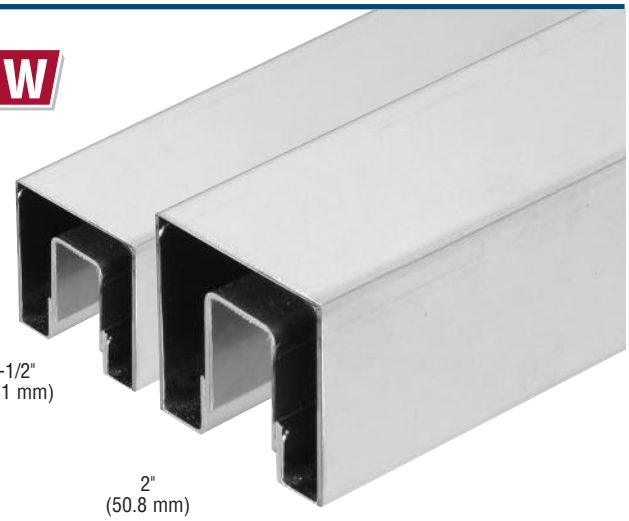
Minimum order: 1 each. All sizes and finishes can be combined for quantity pricing.

CRL GRS CAP RAILING SYSTEMS

CRL Crisp Corner Square Cap Rails for 1/2" (12 mm) to 5/8" (16 mm) Glass

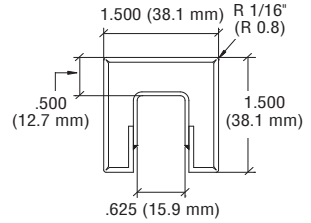
new

- New Crisp Corner Design
- 120" (3.05 m) Stock Lengths Available in Two Sizes and Two Architectural Finishes
- Profiles Range From 1-1/2" (38.1 mm) to 2-1/2" (63.5 mm) Sizes
- 304 Stainless Alloy is Standard; 316 Alloy Available on Special Order



New 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 welded in place to increase strength and stability for fabrication. Use of our Cat. No. 32629 Metal Contact Cement (see page B337) is required to achieve a secure and permanent bond at all connections.

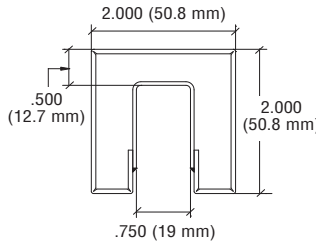
Use Only TEMPERED GLASS



1-1/2" (38.1 MM) SQUARE CRISP CORNER CAP RAIL IN 120" (3.05 M) LENGTHS

CAT. NO.	FINISH	"W" WIDTH	"D" DEPTH*	THICKNESS	USE SLEEVE NO.
GRSC15BS	Brushed Stainless	5/8" (16 mm)	1/2" (12.7 mm)	.078" (2 mm)	GRS15CSS
GRSC15PS	Polished Stainless	5/8" (16 mm)	1/2" (12.7 mm)	.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" (38.1 mm) Square Premium Cap Rail works only with 1/2" (12 mm) glass, secured with 95CBL Silicone and Shims.



2" (50.8 MM) SQUARE CRISP CORNER CAP RAIL IN 120" (3.05 M) LENGTHS

CAT. NO.	FINISH	"W" WIDTH	"D" DEPTH*	THICKNESS	USE SLEEVE NO.
GRSC20BS	Brushed Stainless	3/4" (19 mm)	1/2" (12.7 mm)	.078" (2 mm)	GRS20CSS
GRSC20PS	Polished Stainless	3/4" (19 mm)	1/2" (12.7 mm)	.078" (2 mm)	GRS20CSS

Minimum order: 1 each. Sizes and finishes can be combined for quantity pricing. Must ship common carrier.

CRL 90 Degree Crisp Corner Square Cap Horizontal Corners for 1/2" (12 mm) to 5/8" (16 mm) Glass

new

- New Crisp Corner Profile
- Ready to Install

1-1/2" (38.1 MM) SQUARE 90 DEGREE CAP CORNERS

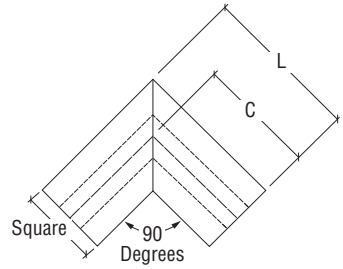
CAT. NO.	FINISH	DIMENSIONS
GRSC15HBS	Brushed Stainless	L= 3-3/4" (95.3 mm)
GRSC15HPS	Polished Stainless	C= 3" (76.2 mm)

2" (50.8 MM) SQUARE 90 DEGREE CAP CORNERS

CAT. NO.	FINISH	DIMENSIONS
GRSC20HBS	Brushed Stainless	L= 4" (101.6 mm)
GRSC20HPS	Polished Stainless	C= 3" (76.2 mm)

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

Always use proper Connector Sleeves (see page B192).



Horizontal Crisp Corners for 1/2" (12 mm) to 5/8" (16 mm) thick glass allow for hairline joint assemblies with straight lengths of CRL Crisp Corner Square Cap Rail. Use of our Cat. No. 32629 Metal Contact Cement (see page B337) is required to achieve a secure and permanent bond. Two Connector Sleeves are required for use with each corner (see page B192).

NOTE: With the exception of the GRSC15 Series Cap Rail Corners, when used with 1/2" (12 mm) glass, our GR5PV Cap Rail Vinyl (see page B199) and 95CBL Silicone (see page B154) should be used to secure the glass. When using GRSC15 Series Cap Rail Corners or 5/8" (16 mm) glass, use 95CBL Silicone and shims only to secure the glass.

CRL GRS CAP RAILING SYSTEMS

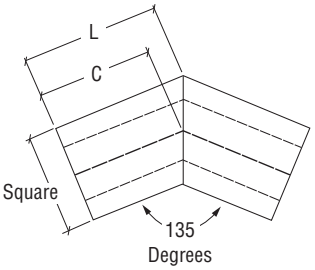
CRL 135 Degree Crisp Corner Square Cap Horizontal Corners for 1/2" (12 mm) to 5/8" (16 mm) Glass

new

- New Crisp Corner Profile
- Ready to Install

Horizontal Crisp Corners for 1/2" (12 mm) to 5/8" (16 mm) thick glass allow for hairline joint assemblies with straight lengths of CRL Crisp Corner Square Cap Rail. Use of our Cat. No. 32629 Metal Contact Cement (see page B337) is required to achieve a secure and permanent bond. Two Connector Sleeves are required for use with each corner (see page B192).

Always use proper Connector Sleeves (see page B192).



1-1/2" (38.1 MM) SQUARE 135 DEGREE CAP CORNERS

CAT. NO.	FINISH	DIMENSIONS
GRSC15H3BS	Brushed Stainless	L= 3-3/4" (95.3 mm)
GRSC15H3PS	Polished Stainless	C= 3" (76.2 mm)

2" (50.8 MM) SQUARE 135 DEGREE CAP CORNERS

CAT. NO.	FINISH	DIMENSIONS
GRSC20H3BS	Brushed Stainless	L= 4" (101.6 mm)
GRSC20H3PS	Polished Stainless	C= 3" (76.2 mm)

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

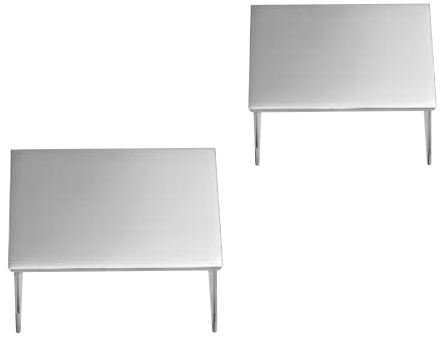
NOTE: With the exception of the GRSC15H3 Series Cap Rail Corners, when used with 1/2" (12 mm) glass, our GR5PV Cap Rail Vinyl (see page B199) and 95CBL Silicone (see page B154) should be used to secure the glass. When using GRSC15H3 Series Cap Rail Corners or 5/8" (16 mm) glass, use 95CBL Silicone and shims only to secure the glass.

CRL Square End Caps for Crisp Corner Cap Railings

new

- Formed and Shaped to Fit, Ready to Install
- New Crisp Corner Design

CRL Square End Caps easily slip into the Crisp Corner Cap Railing. Use of Cat. No. 32629 Metal Contact Cement (see page B337) is required to achieve a secure and permanent bond. Standard stainless alloy is 304. Stainless alloy 316 is available on special order.



END CAPS FOR 1-1/2" (38.1 MM) CRISP CORNER CAP RAILING

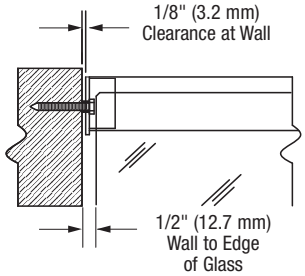
CAT. NO.	FINISH	FITS CAP RAIL NO.
GRSC15ECBS	Brushed Stainless	GRS15BS
GRSC15ECPS	Polished Stainless	GRS15PS

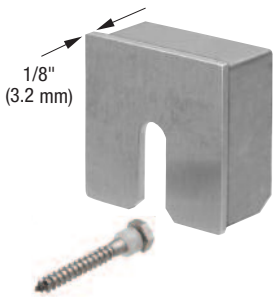
END CAPS FOR 2" (50.8 MM) CRISP CORNER CAP RAILING

CAT. NO.	FINISH	FITS CAP RAIL NO.
GRSC20ECBS	Brushed Stainless	GRS20BS
GRSC20ECPS	Polished Stainless	GRS20PS

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

CRL Square Stabilizing End Caps for Crisp Corner Cap Railings





new

- Formed and Shaped to Fit

CRL Square Stabilizing End Caps easily slip into our Crisp Corner Cap Railing. Use of Cat. No. 32629 Metal Contact Cement (see page B337) is required to achieve a secure and permanent bond. Standard stainless alloy is 304. Stainless alloy 316 is available on special order. Includes: 1/4" (6.3 mm) x 2" (50.8 mm) Lag Screw with 1/4" (6.3 mm) nylon spacer.

CAPS FOR 1-1/2" (38.1 MM) CRISP CORNER CAP RAILING

CAT. NO.	FINISH	FITS CAP RAIL NO.
GRSC15SECBS	Brushed Stainless	GRSC15BS
GRSC15SECPS	Polished Stainless	GRSC15PS

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

CAPS FOR 2" (50.8 MM) CRISP CORNER CAP RAILING

CAT. NO.	FINISH	FITS CAP RAIL NO.
GRSC20SECBS	Brushed Stainless	GRSC20BS
GRSC20SECPS	Polished Stainless	GRSC20PS

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

CRL GRS CAP RAILING SYSTEMS

For Pricing Visit Our Web Site or Call Us Toll Free at the Phone Numbers Shown on the Back Cover

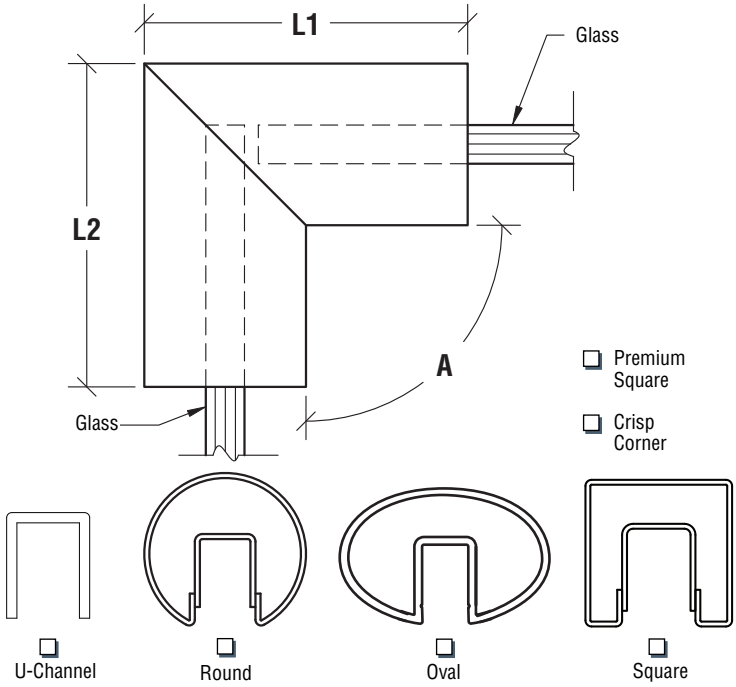
Date:_____Company Name:_____Your Name:_____

Phone #:_____ P.O. # (If Ordering):_____Project Name:_____

Quantity:_____Cap Rail Size:_____Glass Thickness:_____ Finish: _____

For pricing or ordering assistance contact CRL 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 this form to CRL Technical Sales at (800) 587-7501 in the U.S., or (323) 584-5289 (Canada or International).

Horizontal Custom Corner Order Sheet



Plan View of Cap Rail With Long Point Dimensions

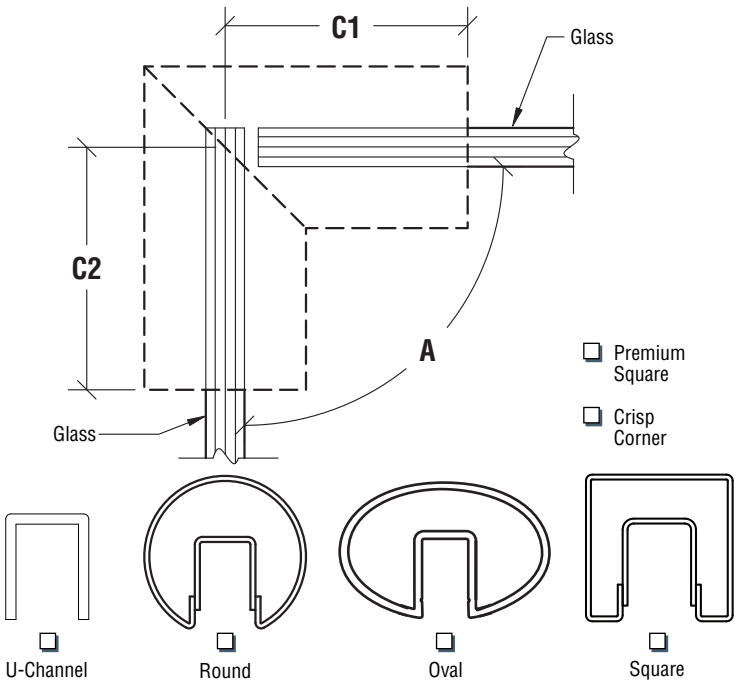
Specify Inches or Millimeters

Long Point of Cap Rail L1=_____

Long Point of Cap Rail L2=_____

Inside Angle A=_____

Notes:_____



Plan View of Center Line Glass Dimensions

Specify Inches or Millimeters

Center of Line of Glass C1=_____

Center of Line of Glass C2=_____

Inside Angle A=_____

Notes:_____

CRL GRS CAP RAILING SYSTEMS

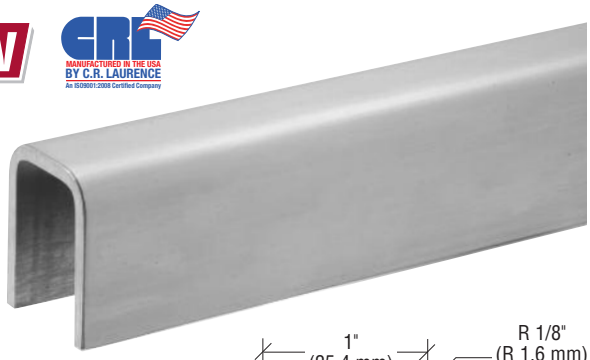
CRL Low Profile 11 Gauge Cap Railing

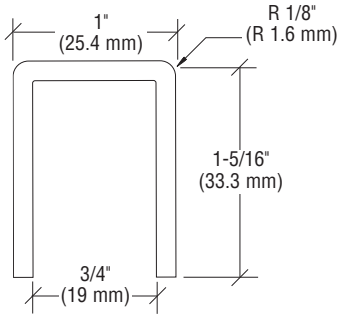
new

MANUFACTURED IN THE USA BY C.R. LAURENCE
An ISO9001:2008 Certified Company

- For 1/2" (12 mm) or 5/8" (16 mm) Glass
- Designed for Use as a Top Rail for Guard Rail Applications
- Protects Glass Edge
- Secures Glass Panels Together
- Available in Two Architectural Finishes
- Connects to Fabricated Corners and End Caps

Use Only 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. **NOTE:** When used with 1/2" (12 mm) glass, GR5PV Cap Rail Vinyl and 95CBL Silicone (see page B154) should be used to secure the glass. When used with 5/8" (16 mm) glass, secure with 95CBL Silicone and shims.

CAT. NO.	FINISH	"W" WIDTH	"H" HEIGHT	"T" THICKNESS	LENGTH
GRL10BS	Brushed Stainless	1" (25.4 mm)	1-5/16" (33.3 mm)	11 Gauge 1/8" (3.2 mm)	120" (3.05 m)
GRL10PS	Polished Stainless	1" (25.4 mm)	1-5/16" (33.3 mm)		120" (3.05 m)

Minimum order: 1 each. Finishes can be combined for quantity pricing. Must ship common carrier.

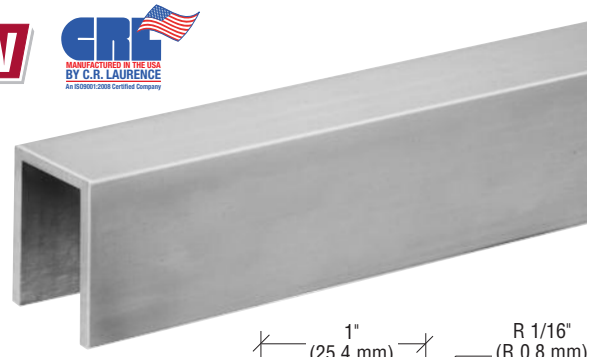
CRL Crisp Corner 11 Gauge Cap Railing

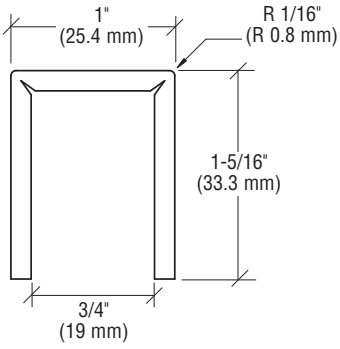
new

MANUFACTURED IN THE USA BY C.R. LAURENCE
An ISO9001:2008 Certified Company

- Crisp Corner Profile for 1/2" (12 mm) or 5/8" (16 mm) Glass
- Designed for Use as a Top Rail for Guard Rail Applications
- Protects Glass Edge
- Secures Glass Panels Together
- Available in Two Architectural Finishes
- Connects to Fabricated Corners and End Caps

Use Only TEMPERED GLASS





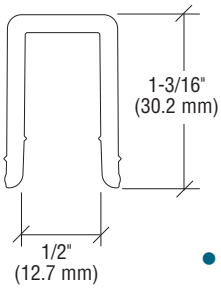
CRL Crisp Corner Cap Rail is made from 11 gauge stainless steel, and is designed to protect the edge of the glass and secure glass panels together. **NOTE:** When used with 1/2" (12 mm) glass, GR5PV Cap Rail Vinyl and 95CBL Silicone (see page B154) should be used to secure the glass. When used with 5/8" (16 mm) glass, secure with 95CBL Silicone and shims.

CAT. NO.	FINISH	"W" WIDTH	"H" HEIGHT	"T" THICKNESS	LENGTH
GRLC10BS	Brushed Stainless	1" (25.4 mm)	1-5/16" (33.3 mm)	11 Gauge 1/8" (3.2 mm)	120" (3.05 m)
GRLC10PS	Polished Stainless	1" (25.4 mm)	1-5/16" (33.3 mm)		120" (3.05 m)

Minimum order: 1 each. Finishes can be combined for quantity pricing. Must ship common carrier.

CRL Cap Rail Vinyl

- Rigid Black Vinyl Provides Protective Barrier Between Metal Cap and Glass
- For 1/2" (12 mm) Glass
- Ready to Install



- Works in Both Low Profile and Crisp Corner 11 Gauge Cap Rail

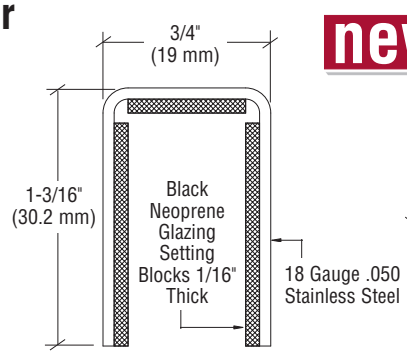
CRL Cap Rail Vinyl for 1/2" (12 mm) glass is used with our Low Profile and Crisp Corner 11 Gauge Cap Rails (see above) to securely attach the glass to metal. Cap Rail Vinyl is flat black in color, and is designed to center the glass and protect the edge of the glass when inserted into the metal cap rail.

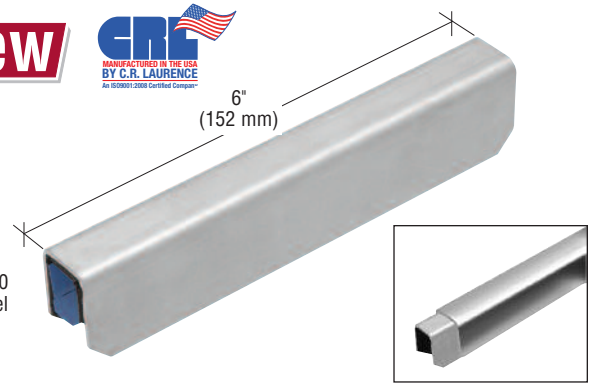
CAT. NO.	DESCRIPTION
GR5PV	1/2" U-Channel Cap Rail Vinyl - 120"

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.

CRL Connector Sleeves for 11 Gauge Cap Railing

- Formed and Shaped to Fit Both of Our 11 Gauge Cap Railings
- Provide Proper Alignment Between Railing Splices
- Ready to Install





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 Cat. No. 32629 Metal Contact Cement (see page B337) to greatly improve the joint strength.

CAT. NO.	MATERIAL	FOR USE WITH
GRL10CSS	Stainless Steel	GRL10BS/GRL10PS Cap Rails GRLC10BS/GRLC10PS Cap Rails and all GRL10H Cap Rail Corners

Minimum order: 1 each.

CRL End Caps for 11 Gauge Cap Railings

- Formed and Shaped to Fit Both of Our 11 Gauge Cap Railings
- Ready to Install
- Available in Brushed and Polished Stainless Finishes

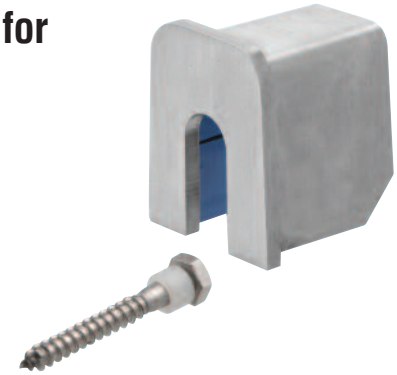
This CRL End Cap easily slips into our 11 Gauge Cap Railing. Use Cat. No. 32629 Metal Contact Cement (see page B337) to achieve a secure and permanent bond. Standard stainless alloy is 304. Stainless alloy 316 is available on special order.

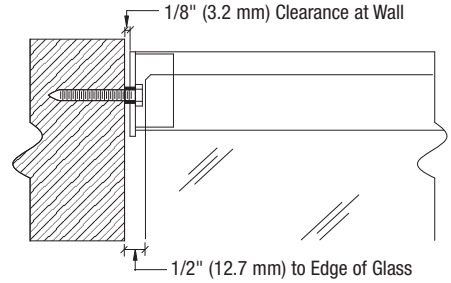
CAT. NO.	CAP RAIL TYPE	FINISH	FITS CAP RAIL NO.
GRL10ECBS	Low Profile	Brushed Stainless	GRL10BS
GRL10ECPS	Low Profile	Polished Stainless	GRL10PS
GRLC10ECBS	Crisp Corner	Brushed Stainless	GRLC10BS
GRLC10ECPS	Crisp Corner	Polished Stainless	GRLC10PS

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

CRL Stabilizing End Caps for 11 Gauge Cap Railings

- Formed and Shaped to Fit Both of Our 11 Gauge Cap Railings
- Ready to Install
- Available in Brushed and Polished Stainless Steel





CRL Stabilizing End Caps easily slip into our 11 Gauge Cap Railing. Use Cat. No. 32629 Metal Contact Cement (see page B337) to achieve a secure and permanent bond. Standard alloy is 304. Stainless Alloy 316 is available on special order. Includes: 1/4" (6.3 mm) x 2" (50.8 mm) Lag Screw with 1/4" (6.3 mm) nylon spacer.

CAT. NO.	CAP RAIL TYPE	FINISH	FITS CAP RAIL NO.
GRL10SECBS	Low Profile	Brushed Stainless	GRL10BS
GRL10SECPS	Low Profile	Polished Stainless	GRL10PS
GRLC10SECBS	Crisp Corner	Brushed Stainless	GRLC10BS
GRLC10SECPS	Crisp Corner	Polished Stainless	GRLC10PS

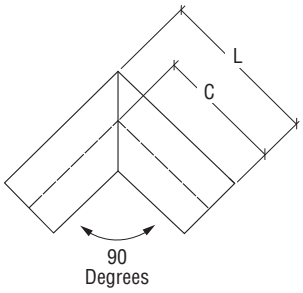
Minimum order: 1 each. Finishes can be combined for quantity pricing.

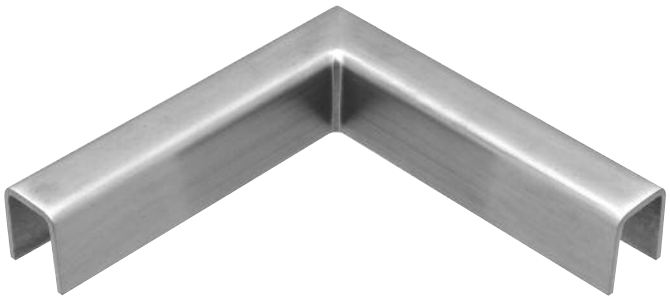
CRL 90 Degree Horizontal Corners for 11 Gauge Cap Railings

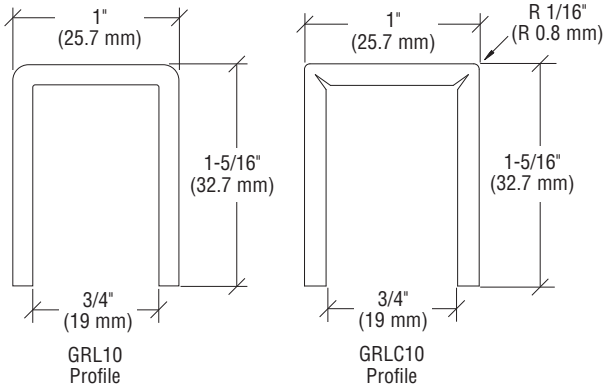
MANUFACTURED IN THE USA BY C.R. LAURENCE
An ISO9001:2008 Certified Company

new

- Two Profiles for 1/2" (12 mm) or 5/8" (16 mm) Glass
- Two Finishes Available
- Welded and Finished
- Ready to Install







Slip-fit 90 Degree Horizontal Corners for 1/2" (12 mm) or 5/8" (16 mm) thick glass allow for hairline joint assemblies with straight lengths of CRL 11 Gauge Cap Railing. Use our Cat. No. 32629 Metal Contact Cement (see page B337) to achieve a secure and permanent bond. Two Connector Sleeves are required for use with each Corner (see page B197). Standard stainless alloy is 304. Stainless alloy 316 is available on special order.

CAT. NO.	CAP RAIL TYPE	FINISH	FITS CAP RAIL NO.	DIMENSIONS
GRL10HBS	Low Profile	Brushed Stainless	GRL10BS	L = 6" (152.4 mm)
GRL10HPS	Low Profile	Polished Stainless	GRL10PS	C = 5-1/2" (139.7 mm)
GRLC10HBS	Crisp Corner	Brushed Stainless	GRLC10BS	
GRLC10HPS	Crisp Corner	Polished Stainless	GRLC10PS	

Minimum order: 1 each. All Cap Railing Corners can be combined for quantity pricing.

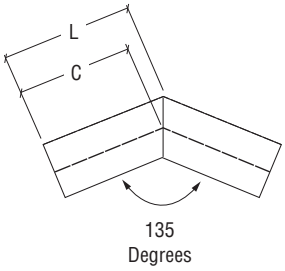
NOTE: When used with 1/2" (12 mm) glass, our GR5PV Cap Rail Vinyl (see page B199) and 95CBL Silicone (see page B154) should be used to secure the glass. When using 5/8" (16 mm) glass, use 95CBL Silicone and shims only to secure the glass.

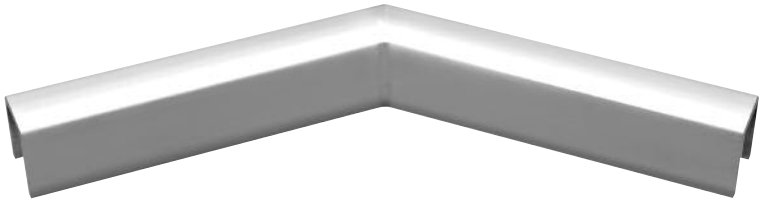
CRL 135 Degree Horizontal Corners for 11 Gauge Cap Railings

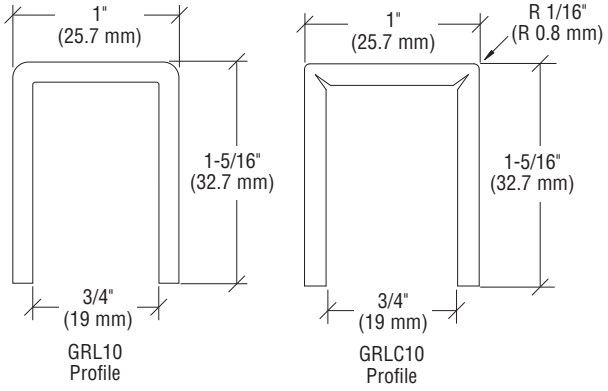
MANUFACTURED IN THE USA BY C.R. LAURENCE
An ISO9001:2008 Certified Company

new

- Two Profiles for 1/2" (12 mm) or 5/8" (16 mm) Glass
- Two Finishes Available
- Welded and Finished
- Ready to Install







Slip-fit 135 Degree Horizontal Corners for 1/2" (12 mm) or 5/8" (16 mm) thick glass allow for hairline joint assemblies with straight lengths of CRL 11 Gauge Cap Railing. Use our Cat. No. 32629 Metal Contact Cement (see page B337) to achieve a secure and permanent bond. Two Connector Sleeves are required for use with each Corner (see page B197). Standard stainless alloy is 304. Stainless alloy 316 is available on special order.

CAT. NO.	CAP RAIL TYPE	FINISH	FITS CAP RAIL NO.	DIMENSIONS
GRL10H3BS	Low Profile	Brushed Stainless	GRL10BS	L = 6" (152.4 mm)
GRL10H3PS	Low Profile	Polished Stainless	GRL10PS	C = 5-1/2" (139.7 mm)
GRLC10H3BS	Crisp Corner	Brushed Stainless	GRLC10BS	
GRLC10H3PS	Crisp Corner	Polished Stainless	GRLC10PS	

Minimum order: 1 each. All Cap Railing Corners can be combined for quantity pricing.

NOTE: When used with 1/2" (12 mm) glass, our GR5PV Cap Rail Vinyl (see page B199) and 95CBL Silicone (see page B154) should be used to secure the glass. When using 5/8" (16 mm) glass, use 95CBL Silicone and shims only to secure the glass.

CRL GRS CAP RAILING SYSTEMS

CRL U-Channel Cap Railing

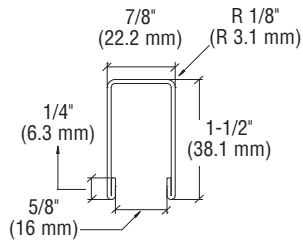
- For 1/2", 5/8", and 3/4" (12, 16, and 19 mm) Glass
- Protects Glass Edge
- Secures Glass Panels Together
- Available in Two Architectural Finishes

MANUFACTURED IN THE USA BY C.R. LAURENCE
An ISO9001:2008 Certified Company

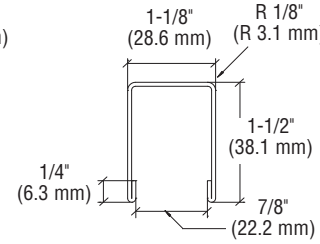
Use Only TEMPERED GLASS

CRL U-Channel Cap protects the edge of the glass and secures glass panels together. Standard Stainless Alloy is 304 and material thickness is 18 gauge. Alloy 316 is available on special order. **NOTE:** These U-Channels are not designed to be used as a top rail for guard rail applications.

NOTE: When used with 1/2" (12 mm) and 3/4" (19 mm) glass, the proper Cap Rail Vinyl (shown below) and Cat. No. 95CBL Silicone (see page B154) should be used to secure the glass. When used with 5/8" (16 mm) glass, secure with 95CBL Silicone and Shims only.



GRUC5 Series



GRUC7 Series

CAT. NO.	FINISH	"W" WIDTH	"H" HEIGHT	LENGTH	USE WITH
GRUC5BS10	Brushed Stainless	5/8" (16 mm)	1-1/2" (38.1 mm)	120" (3.05 m)	1/2" (12 mm) or 5/8" (16 mm) Glass
GRUC5PS10	Polished Stainless	5/8" (16 mm)	1-1/2" (38.1 mm)	120" (3.05 m)	1/2" (12 mm) or 5/8" (16 mm) Glass
GRUC7BS10	Brushed Stainless	7/8" (22.2 mm)	1-1/2" (38.1 mm)	120" (3.05 m)	3/4" (19 mm) Glass
GRUC7PS10	Polished Stainless	7/8" (22.2 mm)	1-1/2" (38.1 mm)	120" (3.05 m)	3/4" (19 mm) Glass

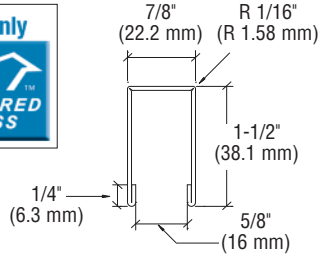
Minimum order: 1 each. Sizes can be combined for quantity pricing. A Packing Charge will be added to orders of fewer than five combined lengths. Must ship common carrier.

CRL Crisp Corner U-Channel Cap Railing

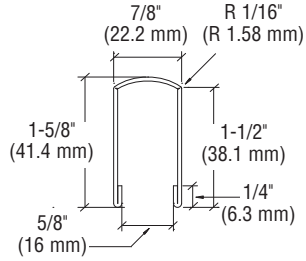
new

Use Only TEMPERED GLASS

- New Crisp Corner Design for Use With 1/2" (12 mm) Tempered Glass
- Available in Brushed and Polished Stainless Steel
- 304 Alloy 16 Gauge is Standard; 316 Alloy on Special Order



GRCF5 Series
Crisp Corner with Flat Top



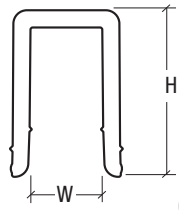
GRCR5 Series
Crisp Corner with Radius Top

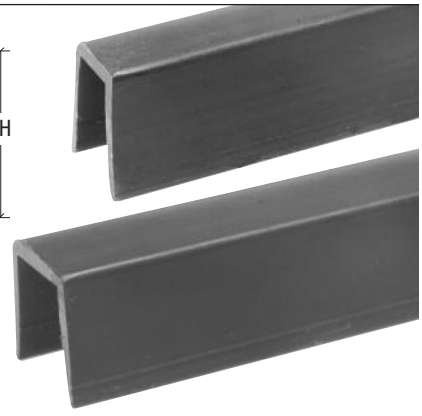
CAT. NO.	TYPE	FINISH	"W" WIDTH	"H" HEIGHT	LENGTH	USE WITH
GRCF5BS	Flat Top	Brushed Stainless	7/8" (22.2 mm)	1-1/2" (38.1 mm)	120" (3.05 m)	1/2" (12 mm) Glass
GRCF5PS	Flat Top	Polished Stainless	7/8" (22.2 mm)	1-1/2" (38.1 mm)	120" (3.05 m)	1/2" (12 mm) Glass
GRCR5BS	Radius Top	Brushed Stainless	7/8" (22.2 mm)	1-5/8" (41.4 mm)	120" (3.05 m)	1/2" (12 mm) Glass
GRCR5PS	Radius Top	Polished Stainless	7/8" (22.2 mm)	1-5/8" (41.4 mm)	120" (3.05 m)	1/2" (12 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 Cap Rail Vinyl

- For 1/2" (12 mm) and 3/4" (19 mm) Glass
- Rigid Black Vinyl Provides Protective Barrier Between Metal Cap and Glass
- Helps to Align Glass Panels During Installation





CRL Cap Rail Vinyl should be used with all CRL Cap Rails and U-Channel Caps to provide a protective barrier between metal and glass. Cap Rail Vinyl is useful in temporarily aligning the glass panels until the final installation of Cap Rail or U-Channel. Use 95CBL Silicone (see page B154) to secure the Vinyl inside the pocket of the Cap Rail and also to the glass.

CAT. NO.	FITS	"W" WIDTH	"H" HEIGHT	LENGTH	USE WITH
GR5PV	GR19, GR20, GR25, GR30, GR35, GR40, GR0V4 Series Cap Rails; GRUC5, GRCF5, GRCR5 Series U-Channel Caps	1/2" (12 mm)	1-3/16" (30.2 mm)	120" (3.05 m)	1/2" (12 mm) Glass
GR7PV	GR207, GR257, GR307 Series Cap Rails; GRUC7 Series U-Channel Caps	3/4" (19 mm)	1-3/16" (30.2 mm)	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" (2.74 m) must ship common carrier, unless you specify we cut them for U.P.S. A Cutting Charge will apply.

CRL GRS CAP RAILING SYSTEMS

CRL U-Channel Cap Railing for 27/32" (21.52 mm) Laminated Glass

new

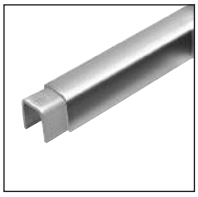
- Low Profile Cap Railing That Meets Guard Rail Load Requirements
- Designed for 27/32" (21.52 mm) Laminated Glass [10 x 1.52 x 10 mm Glass Make Up]
- Connects to Fabricated Corners and End Caps
- Cut to Size or Custom Fabricated Lengths
- 316 Stainless Alloy

Use Only TEMPERED GLASS

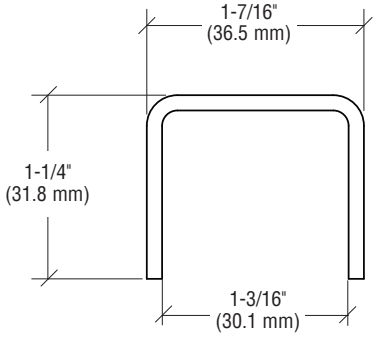
CRL Low Profile U-Channel Cap Railing is designed for guard rail applications and is offered in two architectural finishes. The low profile design allows for a virtually unobstructed view. Use of our LR21PV Cap Railing Rubber Insert (see below) and 95CBL Silicone (see page B154) is required to achieve a secure and permanent bond.

CAT. NO.	LENGTH	FINISH	USE SLEEVE NO.
L10BS	118-1/8" (3 m)	Brushed Stainless	L10CSS
L10PS	118-1/8" (3 m)	Polished Stainless	L10CSS

Minimum order: 1 each. Finishes can be combined for quantity pricing. Must ship common carrier.



Always use proper Connector Sleeves (see page B202)

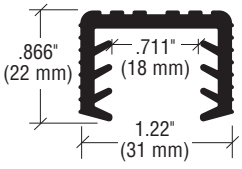


CRL Cap Railing Rubber Insert

new

- For 27/32" (21.52 mm) Laminated Glass
- Flexible Black Rubber Provides Protective Barrier Between Metal Cap and Glass
- Helps Align Glass Panel During Installation

This CRL Rubber Insert is designed for use with our L10 Series U-Channel 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 B154) to secure the Vinyl inside the pocket of the Cap Railing and also to the glass. Minimum order is one roll.



CAT. NO. LR21PV
100' (30.2 m) Roll

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

new

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" (6.3 mm) thick.

Our Fine Hand Pad is for surface conditioning. Perfect for cleaning, finishing, blending, and deburring for railing applications. Our 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.

CAT. NO. SB7440C
Scotch-Brite™ Coarse Hand Pad

CAT. NO. SB7447F
Scotch-Brite™ Fine Hand Pad

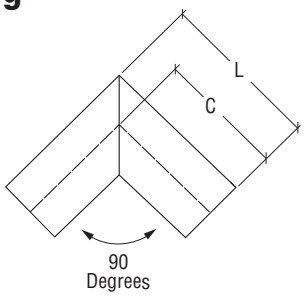
CRL Horizontal Laminated U-Channel Cap Railing

- New for 27/32" (21.52 mm) Laminated Glass
- Welded and Finished
- Ready to Install

CRL's prefabricated 90 degree and 135 degree Horizontal Laminated U-Channel Cap Railing Corners eliminate time consuming field miter cutting and welding. Each Horizontal Corner is fabricated, finished, and individually packaged. Alloy 316 stainless steel is offered in two architectural finishes.

CRL 90 Degree Horizontal Corners for 27/32" (21.52 mm) Laminated U-Channel Cap Railing

- Welded and Finished
- Ready to Install
- 316 Stainless Alloy



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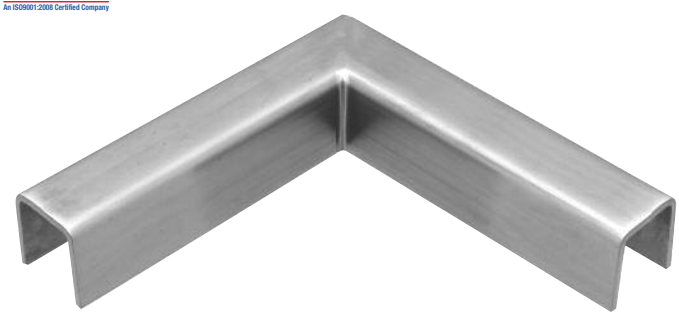
An ISO9001:2008 Certified Company

new

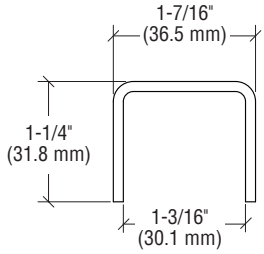


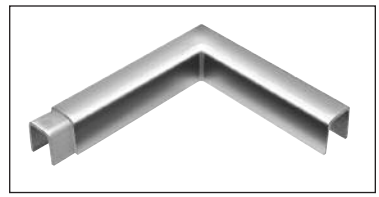
NOTE: When used with 27/32" (21.52 mm) glass, our LR21PV Cap Railing Rubber Insert (see page B200) and 95CBL Silicone (see page B154) should be used to secure the glass.

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 Cap Rail. Use of our LR21PV Cap Railing Rubber Insert (see page B200) and 95CBL Silicone (see page B154) is required to achieve a secure and permanent bond.

CAT. NO.	FINISH	DIMENSIONS
L10HBS	Brushed Stainless	L = 6" (152.4 mm)
L10HPS	Polished Stainless	C = 5-1/4" (133.9 mm)

Minimum order: 1 each. All Cap Railing Corners can be combined for quantity pricing.

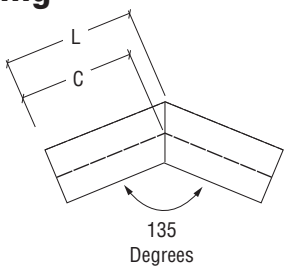




Always use proper Connector Sleeves (see page B202)

CRL 135 Degree Horizontal Corners for 27/32" (21.52 mm) Laminated U-Channel Cap Railing

- Welded and Finished
- Ready to Install
- 316 Stainless Alloy



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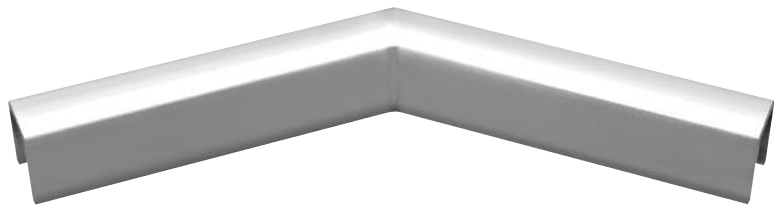
new

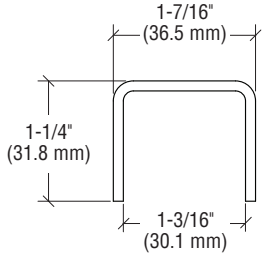


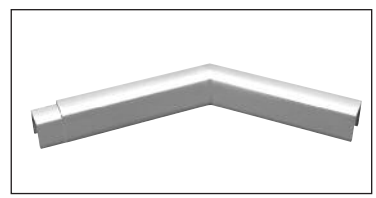
NOTE: When used with 27/32" (21.52 mm) glass, our LR21PV Cap Railing Rubber Insert (see page B200) and 95CBL Silicone (see page B154) should be used to secure the glass.

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 Cap Rail. Use of our LR21PV Cap Railing Rubber Insert (see page B200) and 95CBL Silicone (see page B154) is required to achieve a secure and permanent bond.

CAT. NO.	FINISH	FINISH
L10H3BS	Brushed Stainless	L = 6" (152.4 mm)
L10H3PS	Polished Stainless	C = 5-11/16" (144.7 mm)

Minimum order: 1 each. All Cap Railing Corners can be combined for quantity pricing.



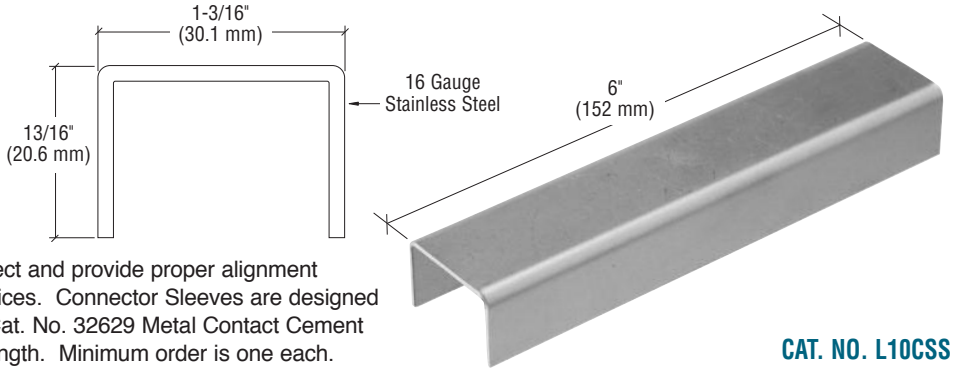


Always use proper Connector Sleeves (see page B202)

CRL Connector Sleeves for Laminated U-Channel Cap Railing

new

- Formed and Shaped to Fit L10 Series U-Channel Cap Railing
- Provides Proper Alignment Between Railing Splices
- Ready to Install



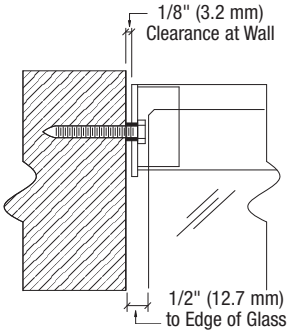
This CRL Connector Sleeve is used to connect and provide proper alignment between railing splices and railing-to-corner splices. Connector Sleeves are designed to easily fit inside the Cap Railing. Use of our Cat. No. 32629 Metal Contact Cement (see page B337) greatly improves the joint strength. Minimum order is one each.

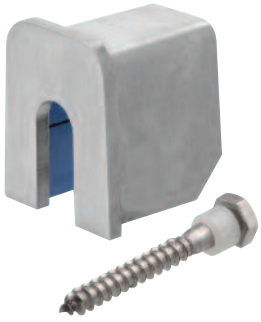
CAT. NO. L10CSS

CRL Stabilizing End Caps for Laminated U-Channel Cap Railing

new

- Formed and Shaped to Fit L10 Series Cap Railing
- Ready to Install





CRL Stabilizing End Caps easily slip into our U-Channel Cap Railing. Use of our 32629 Metal Contact Cement (see page B337) is required to achieve a secure and permanent bond. Standard 316 stainless alloy is 11 Gauge.

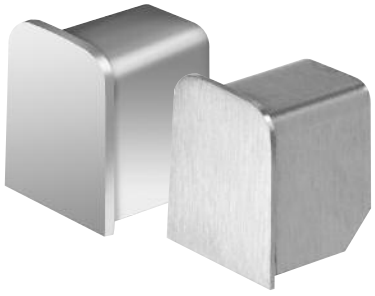
CAT. NO.	FINISH	FITS CAP RAIL NO.
LR10SECBS	Brushed Stainless	L10BS
LR10SECPS	Polished Stainless	L10PS

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

CRL End Caps for Laminated U-Channel Cap Railing

new

- 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. 32629 Metal Contact Cement (see page B337) is required to achieve a secure and permanent bond. Standard stainless alloy is 316.

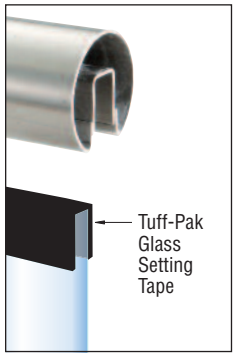
CAT. NO.	FINISH	FITS CAP RAIL NO.
LR10ECBS	Brushed Stainless	L10BS
LR10ECPS	Polished Stainless	L10PS

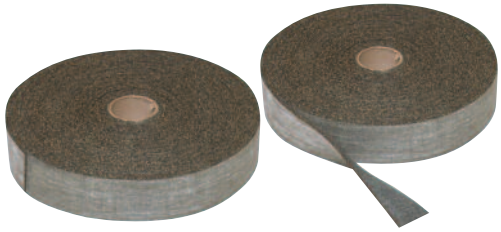
Minimum order: 1 each. Finishes can be combined for quantity pricing.

CRL Tuff-Pak Glass Setting Tape

- Great for Setting 1-1/2" (38.1 mm) Diameter Cap Rails Onto Glass
- Cork and Rubber Content Compresses for a Tight Seal

The cork content in CRL Tuff-Pak Glass Setting Tape makes it compressible, for a strong setting that is both a cushion and a tight seal. Tuff-Pak has the right proportion of cork and rubber to provide an excellent grip on the glass when used with our 1-1/2" (38.1 mm) diameter Premium Cap Rails (see page B176).





CAT. NO.	THICKNESS	WIDTH	ROLL LENGTH
690	1/32" (0.8 mm)	1-1/2" (38.1 mm)	100' (30.5 m)
770	3/64" (1.2 mm)	1-1/2" (38.1 mm)	100' (30.5 m)
720	1/16" (1.6 mm)	1-1/2" (38.1 mm)	100' (30.5 m)
760	5/64" (2.0 mm)	1-1/2" (38.1 mm)	50' (15.2 m)
820	3/32" (2.4 mm)	1-1/2" (38.1 mm)	50' (15.2 m)

Minimum order: 1 roll. Sizes can be combined for quantity pricing.

CRL GRS CAP RAILING SYSTEMS

EGRS Elevated Glass Rail System

GRS Glass Rail System with 2" (51 mm) Square Top Cap

GRS Glass Rail System with 2" (51 mm) Top Cap and 1-1/2" (38 mm) Hand Rail

GRS Glass Rail System with Powder Coated Hand Rail

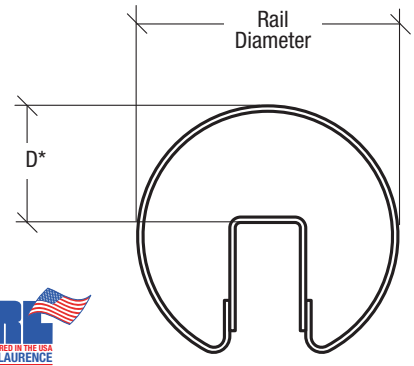
CRL Upper Incline Corners for 1/2" (12 mm) or 5/8" (16 mm) Glass Cap Railings

- **Four Standard Angles for the Top of a Stair or Ramp Railing Incline**
- **Brushed or Polished Stainless Finishes in Six Diameters**

Interior slip-fit Upper Incline Corners for 1/2" (12 mm) or 5/8" (16 mm) thick glass allow for hairline joint assemblies with straight lengths of CRL Cap Rail. Use our Cat. No. 32629 Metal Contact Cement (see page B337) to achieve a secure and permanent bond. Two Connector Sleeves are required for the use of each corner (see page B188).

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 alloy is 304. Stainless alloy 316 is available on special order. Please contact CRL Technical Sales for more information or a quote.

NOTE: When used with 1/2" (12 mm) glass, our GR5PV Cap Rail Vinyl (see page B199) and 95CBL Silicone should be used to secure the glass. When used with 5/8" (16 mm) glass, secure with 95CBL Silicone (see page B154) and shims.



* This dimension is used to calculate the glass size. Add the clearance you desire or add an additional 1/8" (3.2 mm) if using Cap Rail Vinyl (see page B199).

4 Degree Upper Incline Corners

NOTE: Leg Length = 6" (152.4 mm)

BRUSHED CAT. NO.	POLISHED CAT. NO.	"D" *	RAIL DIAMETER
GR15U4BS	GR15U4PS	5/16" (7.9 mm)	1-1/2" (38.1 mm)
GR20U4BS	GR20U4PS	3/8" (9.5 mm)	2" (50.8 mm)
GR25U4BS	GR25U4PS	7/8" (22.2 mm)	2-1/2" (63.5 mm)
GR30U4BS	GR30U4PS	1-3/8" (34.9 mm)	3" (76.2 mm)
GR35U4BS	GR35U4PS	1-7/8" (47.6 mm)	3-1/2" (88.9 mm)
GR40U4BS	GR40U4PS	2-3/8" (60.3 mm)	4" (101.6 mm)

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

29 Degree Upper Incline Corners

NOTE: Leg Length = 6" (152.4 mm)

BRUSHED CAT. NO.	POLISHED CAT. NO.	"D" *	RAIL DIAMETER
GR15U29BS	GR15U29PS	5/16" (7.9 mm)	1-1/2" (38.1 mm)
GR20U29BS	GR20U29PS	3/8" (9.5 mm)	2" (50.8 mm)
GR25U29BS	GR25U29PS	7/8" (22.2 mm)	2-1/2" (63.5 mm)
GR30U29BS	GR30U29PS	1-3/8" (34.9 mm)	3" (76.2 mm)
GR35U29BS	GR35U29PS	1-7/8" (47.6 mm)	3-1/2" (88.9 mm)
GR40U29BS	GR40U29PS	2-3/8" (60.3 mm)	4" (101.6 mm)

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

32 Degree Upper Incline Corners

NOTE: Leg Length = 6" (152.4 mm)

BRUSHED CAT. NO.	POLISHED CAT. NO.	"D" *	RAIL DIAMETER
GR15U32BS	GR15U32PS	5/16" (7.9 mm)	1-1/2" (38.1 mm)
GR20U32BS	GR20U32PS	3/8" (9.5 mm)	2" (50.8 mm)
GR25U32BS	GR25U32PS	7/8" (22.2 mm)	2-1/2" (63.5 mm)
GR30U32BS	GR30U32PS	1-3/8" (34.9 mm)	3" (76.2 mm)
GR35U32BS	GR35U32PS	1-7/8" (47.6 mm)	3-1/2" (88.9 mm)
GR40U32BS	GR40U32PS	2-3/8" (60.3 mm)	4" (101.6 mm)

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

35 Degree Upper Incline Corners

NOTE: Leg Length = 6" (152.4 mm)

BRUSHED CAT. NO.	POLISHED CAT. NO.	"D" *	RAIL DIAMETER
GR15U35BS	GR15U35PS	5/16" (7.9 mm)	1-1/2" (38.1 mm)
GR20U35BS	GR20U35PS	3/8" (9.5 mm)	2" (50.8 mm)
GR25U35BS	GR25U35PS	7/8" (22.2 mm)	2-1/2" (63.5 mm)
GR30U35BS	GR30U35PS	1-3/8" (34.9 mm)	3" (76.2 mm)
GR35U35BS	GR35U35PS	1-7/8" (47.6 mm)	3-1/2" (88.9 mm)
GR40U35BS	GR40U35PS	2-3/8" (60.3 mm)	4" (101.6 mm)

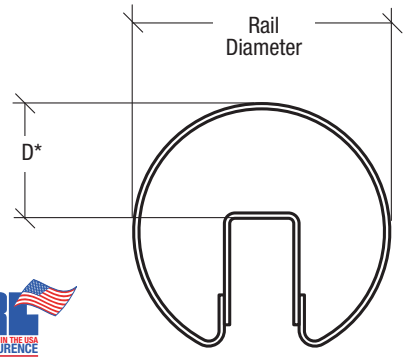
Minimum order: 1 each. All sizes and finishes can be combined for quantity pricing.

CRL Lower Incline Corners for 1/2" (12 mm) or 5/8" (16 mm) Glass Cap Railings

- **Four Standard Angles for the Bottom of a Stair or Ramp Railing Incline**
- **Brushed or Polished Stainless Finishes in Six Diameters**

Interior slip-fit Lower Incline Corners for 1/2" (12 mm) or 5/8" (16 mm) thick glass allow for hairline joint assemblies with straight lengths of CRL Cap Rail. Use our Cat. No. 32629 Metal Contact Cement (see page B337) to achieve a secure and permanent bond. Two Connector Sleeves are required for the use of each corner (see page B188).

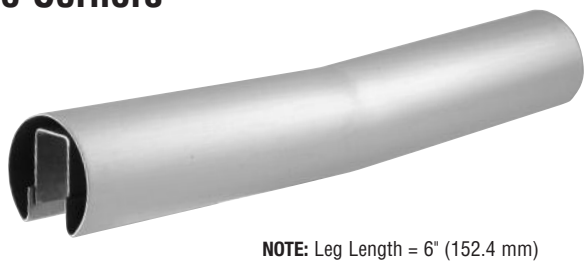
Each Incline Corner is fabricated, finished, and individually packed. All of our corners are fabricated from CRL Premium Cap Rail, and are welded and finished to match. Standard stainless alloy is 304. Stainless alloy 316 is available on special order. Please contact CRL Technical Sales for more information or a quote.



* This dimension is used to calculate the glass size. Add the clearance you desire or add an additional 1/8" (3.2 mm) if using Cap Rail Vinyl (see page B199).

NOTE: When used with 1/2" (12 mm) glass, our GR5PV Cap Rail Vinyl (see page B199) and 95CBL Silicone should be used to secure the glass. When used with 5/8" (16 mm) glass, secure with 95CBL Silicone (see page B154) and shims.

4 Degree Lower Incline Corners

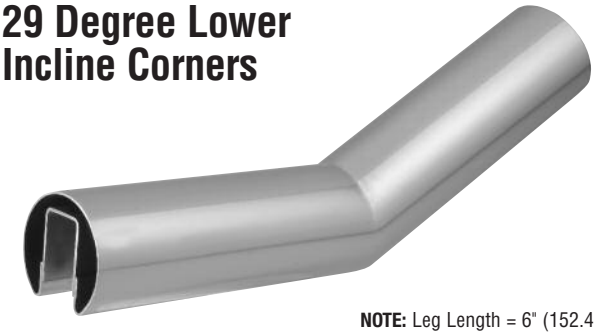


NOTE: Leg Length = 6" (152.4 mm)

BRUSHED CAT. NO.	POLISHED CAT. NO.	"D" *	RAIL DIAMETER
GR15L4BS	GR15L4PS	5/16" (7.9 mm)	1-1/2" (38.1 mm)
GR20L4BS	GR20L4PS	3/8" (9.5 mm)	2" (50.8 mm)
GR25L4BS	GR25L4PS	7/8" (22.2 mm)	2-1/2" (63.5 mm)
GR30L4BS	GR30L4PS	1-3/8" (34.9 mm)	3" (76.2 mm)
GR35L4BS	GR35L4PS	1-7/8" (47.6 mm)	3-1/2" (88.9 mm)
GR40L4BS	GR40L4PS	2-3/8" (60.3 mm)	4" (101.6 mm)

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

29 Degree Lower Incline Corners

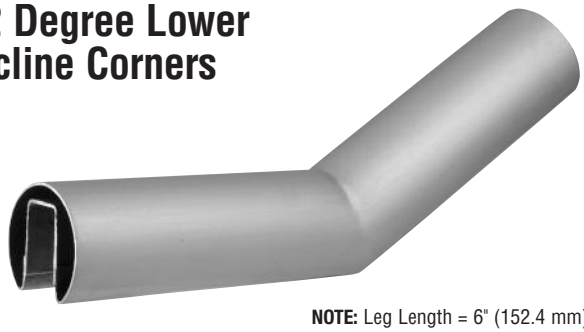


NOTE: Leg Length = 6" (152.4 mm)

BRUSHED CAT. NO.	POLISHED CAT. NO.	"D" *	RAIL DIAMETER
GR15L29BS	GR15L29PS	5/16" (7.9 mm)	1-1/2" (38.1 mm)
GR20L29BS	GR20L29PS	3/8" (9.5 mm)	2" (50.8 mm)
GR25L29BS	GR25L29PS	7/8" (22.2 mm)	2-1/2" (63.5 mm)
GR30L29BS	GR30L29PS	1-3/8" (34.9 mm)	3" (76.2 mm)
GR35L29BS	GR35L29PS	1-7/8" (47.6 mm)	3-1/2" (88.9 mm)
GR40L29BS	GR40L29PS	2-3/8" (60.3 mm)	4" (101.6 mm)

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

32 Degree Lower Incline Corners

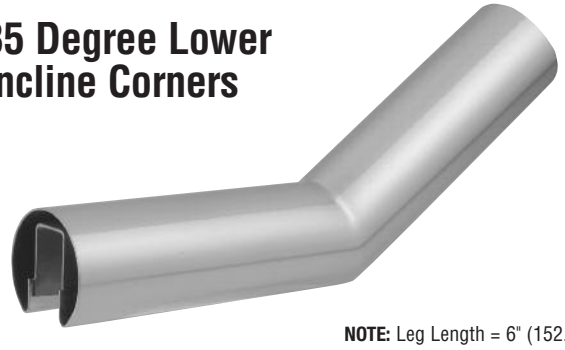


NOTE: Leg Length = 6" (152.4 mm)

BRUSHED CAT. NO.	POLISHED CAT. NO.	"D" *	RAIL DIAMETER
GR15L32BS	GR15L32PS	5/16" (7.9 mm)	1-1/2" (38.1 mm)
GR20L32BS	GR20L32PS	3/8" (9.5 mm)	2" (50.8 mm)
GR25L32BS	GR25L32PS	7/8" (22.2 mm)	2-1/2" (63.5 mm)
GR30L32BS	GR30L32PS	1-3/8" (34.9 mm)	3" (76.2 mm)
GR35L32BS	GR35L32PS	1-7/8" (47.6 mm)	3-1/2" (88.9 mm)
GR40L32BS	GR40L32PS	2-3/8" (60.3 mm)	4" (101.6 mm)

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

35 Degree Lower Incline Corners



NOTE: Leg Length = 6" (152.4 mm)

BRUSHED CAT. NO.	POLISHED CAT. NO.	"D" *	RAIL DIAMETER
GR15L35BS	GR15L35PS	5/16" (7.9 mm)	1-1/2" (38.1 mm)
GR20L35BS	GR20L35PS	3/8" (9.5 mm)	2" (50.8 mm)
GR25L35BS	GR25L35PS	7/8" (22.2 mm)	2-1/2" (63.5 mm)
GR30L35BS	GR30L35PS	1-3/8" (34.9 mm)	3" (76.2 mm)
GR35L35BS	GR35L35PS	1-7/8" (47.6 mm)	3-1/2" (88.9 mm)
GR40L35BS	GR40L35PS	2-3/8" (60.3 mm)	4" (101.6 mm)

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

CRL 90 Degree Vertical Corners for 1/2" (12 mm) or 5/8" (16 mm) Glass Cap Railings

- **Four Architectural Finishes Plus Mill Aluminum**
- **New Oval Corner in Mill Aluminum**
- **Requires Two Connector Sleeves (Not Included)**

- **Ready to Install**

Interior slip-fit Vertical Corners for 1/2" (12 mm) or 5/8" (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 B337) is required to achieve a secure and permanent bond. Two Connector Sleeves are required for use with each corner (see page B188).

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. Our mill aluminum corners are welded for painted finishes only. Standard stainless alloy is 304. Stainless alloy 316 is available on special order. For brass, alloy 260 is standard. For all anodized finishes please see page B189 for Internal Corner Splices that create an architecturally pleasing mitered joint. Please contact CRL Technical Sales for more information or a quote.

NOTE: With the exception of the GR15 Series Cap Rail Corners, when used with 1/2" (12 mm) glass, our GR5PV Cap Rail Vinyl (see page B199) and 95CBL Silicone should be used to secure the glass. When using GR15 Series Cap Rail Corners or 5/8" (16 mm) glass, use 95CBL Silicone and shims only to secure the glass.

1-1/2" (38.1 MM) DIAMETER CORNERS

CAT. NO.	FINISH	DIMENSIONS
GR15VBS	Brushed Stainless	L=3-3/4" (95.3 mm)
GR15VPS	Polished Stainless	D=5/16" (7.9 mm)*
GR15VPB	Polished Brass	
GR15VSB	Satin Brass	

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

1.9" (48.3 MM) DIAMETER CORNER

CAT. NO.	FINISH	DIMENSIONS
GR19VM	Mill Aluminum	L=6" (152.4 mm) D=9/16" (14.3 mm)*

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

2" (50.8 MM) DIAMETER CORNERS

CAT. NO.	FINISH	DIMENSIONS
GR20VBS	Brushed Stainless	L=4" (101.6 mm)
GR20VPS	Polished Stainless	D=3/8" (9.5 mm)*
GR20VPB	Polished Brass	
GR20VSB	Satin Brass	

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

2-1/2" (63.5 MM) DIAMETER CORNERS

CAT. NO.	FINISH	DIMENSIONS
GR25VBS	Brushed Stainless	L=4-1/2" (114.3 mm)
GR25VPS	Polished Stainless	D=7/8" (22.2 mm)*
GR25VPB	Polished Brass	
GR25VSB	Satin Brass	
CAT. NO.	FINISH	DIMENSIONS
GR25VM	Mill Aluminum	L=6" (152.4 mm) D=1-1/8" (28.6 mm)*

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

3" (76.2 MM) DIAMETER CORNERS

CAT. NO.	FINISH	DIMENSIONS
GR30VBS	Brushed Stainless	L=5" (127 mm)
GR30VPS	Polished Stainless	D=1-3/8" (34.9 mm)*
GR30VPB	Polished Brass	
GR30VSB	Satin Brass	
CAT. NO.	FINISH	DIMENSIONS
GR30VM	Mill Aluminum	L=6" (152.4 mm) D=1-11/16" (42.9 mm)*

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

3-1/2" (88.9 MM) DIAMETER CORNERS

CAT. NO.	FINISH	DIMENSIONS
GR35VBS	Brushed Stainless	L=5-1/2" (139.7 mm)
GR35VPS	Polished Stainless	D=1-7/8" (47.6 mm)*
GR35VPB	Polished Brass	
GR35VSB	Satin Brass	
CAT. NO.	FINISH	DIMENSIONS
GR35VM	Mill Aluminum	L=6" (152.4 mm) D=2-3/16" (55.6 mm)*

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

4" (101.6 MM) DIAMETER CORNERS

CAT. NO.	FINISH	DIMENSIONS
GR40VBS	Brushed Stainless	L=6" (152.4 mm)
GR40VPS	Polished Stainless	D=2-3/8" (60.3 mm)*
GR40VPB	Polished Brass	
GR40VSB	Satin Brass	

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

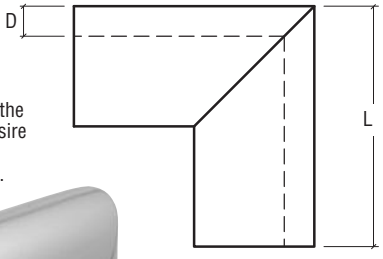
4" X 2-1/2" (101.6 X 63.5 MM) OVAL CORNERS

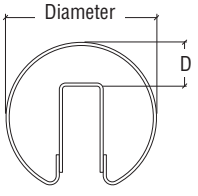
CAT. NO.	FINISH	DIMENSIONS
GR0V4VM	Mill Aluminum	L=6" (152.4 mm) D=1-1/8" (28.6 mm)*

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

Always use proper Connector Sleeves (see page B188).

*This dimension is used to calculate the glass size. Add the clearance you desire or add an additional 1/8" (3.2 mm) if using Cap Rail Vinyl (see page B199).





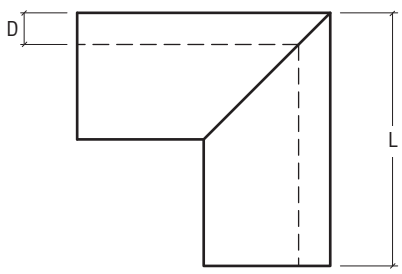
CRL 90 Degree Vertical Corners for 3/4" (19 mm) Glass Cap Railings

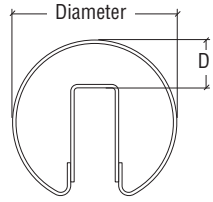
- **Ready to Install**
- **Variety of Architectural Finishes**
- **Requires Two Connector Sleeves (Not Included)**

Interior slip-fit Vertical Corners for 3/4" (19 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 B337) is required to achieve a secure and permanent bond. Two Connector Sleeves are required for use with each Corner (see page B188).

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. Standard stainless alloy is 304. Stainless alloy 316 is available on special order. For brass, alloy 260 is standard. Our mill aluminum corners are welded for painted finishes only. For all anodized finishes please see page B189 for Internal Corner Splices that create an architecturally pleasing mitered joint. Please contact CRL Technical Sales for more information or a quote.

NOTE: Our GR7PV Cap Rail Vinyl (see page B199) and 95CBL Silicone (see page B154) should be used to secure the glass.





2" (50.8 MM) DIAMETER CORNERS

CAT. NO.	FINISH	DIMENSIONS
GR207VBS	Brushed Stainless	L=4" (101.6 mm)
GR207VPS	Polished Stainless	D=3/8" (9.5 mm)*
GR207VPB	Polished Brass	
GR207VSB	Satin Brass	

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

2-1/2" (63.5 MM) DIAMETER CORNERS

CAT. NO.	FINISH	DIMENSIONS
GR257VBS	Brushed Stainless	L=4-1/2" (114.3 mm)
GR257VPS	Polished Stainless	D=7/8" (22.2 mm)*
GR257VPB	Polished Brass	
GR257VSB	Satin Brass	

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

3" (76.2 MM) DIAMETER CORNERS

CAT. NO.	FINISH	DIMENSIONS
GR307VBS	Brushed Stainless	L=5" (127 mm)
GR307VPS	Polished Stainless	D=1-3/8" (34.9 mm)*
GR307VPB	Polished Brass	
GR307VSB	Satin Brass	
GR307VM	Mill Aluminum	L=5" (127 mm) D=1-11/16" (43 mm)*

Minimum order: 1 each. All sizes and finishes can be combined for quantity pricing.
* This dimension is used to calculate the glass size and add the clearance you desire.

Always use proper Connector Sleeves (see page B188).

CRL Premium Formed Cap Rail Accessories

Corners

See pages B184 to B187

Connector Sleeves

See page B188

End Caps

See pages B180 to B181

Contact Cement

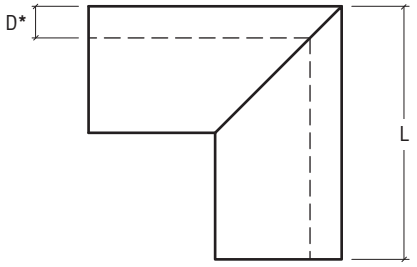
See page B337

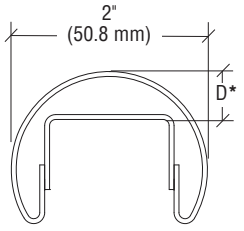
CRL 90 Degree Vertical Corners for 27/32" (21.52 mm) and 1-1/16" (25.52 mm) Laminated Glass Cap Railings

new

- Ready to Install
- Variety of Architectural Finishes
- Requires Two Connector Sleeves (Not Included)

CRL's 90 Degree Vertical Corners for 27/32" (21.52 mm) and 1-1/16" (25.52 mm) thickness laminated glass allow hairline joint assemblies with straight lengths of CRL Laminated Cap Railing. Each Vertical Corner is fabricated, finished, and individually packed. Please Contact CRL Technical Sales for more information or a quote.





*This dimension is used to calculate the glass size. Add the clearance you desire or add an additional 1/8" (3.2 mm) if using Cap Rail Vinyl (see page B182).

2" (50.8 MM) DIAMETER VERTICAL CORNERS

CAT. NO.	FINISH	DIMENSIONS
LR20VBS	Brushed Stainless	L = 4" (101.6 mm)
LR20VPS	Polished Stainless	
LR20VPB	Polished Brass	D = 3/8" (9.5 mm)
LR20VSB	Satin Brass	

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

CRL Ready To Install Custom Cap Railing Corners

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. For your convenience a Custom Corner Order Forms can be found on pages B195 and B211. Or you can contact CRL Railing Technical Sales for design and ordering assistance.

CRL Custom Angle Vertical Corners for 1/2" (12 mm) or 5/8" (16 mm) Glass Cap Railings

- Five Architectural Finishes Plus Mill Aluminum
- Requires Two Connector Sleeves (Not Included)

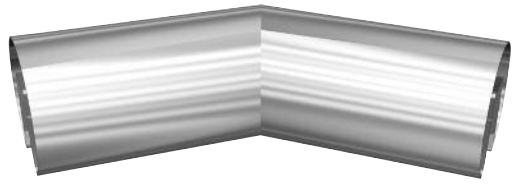
CRL Custom Angle Vertical Corners for 1/2" (12 mm) or 5/8" (16 mm) Glass Cap Railing can be manufactured to almost any angle the customer requires. Lengths typically match our other corners, but they can be ordered in custom lengths as well.

CAT. NO.	INFORMATION REQUIRED TO FABRICATE
GR0VC	Use Custom Corner Order Form (see page B211)

Minimum order: 1 each.

CRL Custom Angle Horizontal Corners for 1/2" (12 mm) or 5/8" (16 mm) Glass Cap Railings

- Five Architectural Finishes Plus Mill Aluminum
- Requires Two Connector Sleeves (Not Included)



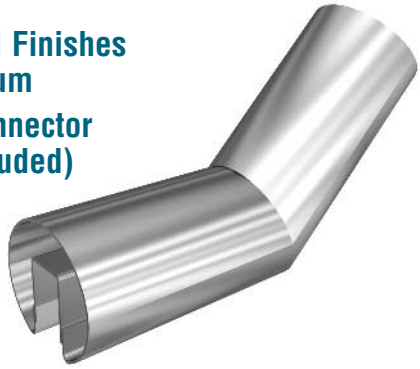
CRL Custom Angle Horizontal Corners for 1/2" (12 mm) or 5/8" (16 mm) Glass Cap Railing can be manufactured to almost any angle the customer requires. Lengths typically match our other corners, but they can be ordered in custom lengths as well.

CAT. NO.	INFORMATION REQUIRED TO FABRICATE
GR0HC	Use Custom Corner Order Form (see page B195)

Minimum order: 1 each.

CRL Custom Reverse Angle Vertical Corners for 1/2" (12 mm) or 5/8" (16 mm) Glass Cap Railings

- Five Architectural Finishes Plus Mill Aluminum
- Requires Two Connector Sleeves (Not Included)



CRL Custom Reverse Angle Vertical Corners for 1/2" (12 mm) or 5/8" (16 mm) Glass Cap Railing can be manufactured to almost any angle the customer requires. Lengths typically match our other corners, but they can be ordered in custom lengths as well.

CAT. NO.	INFORMATION REQUIRED TO FABRICATE
GR0RVC	Use Custom Corner Order Form (see page B211)

Minimum order: 1 each.

CRL Long Length Custom Horizontal Corners for 1/2" (12 mm) or 5/8" (16 mm) Glass Cap Railings

- Five Architectural Finishes Plus Mill Aluminum
- Requires Two Connector Sleeves (Not Included)

CRL Long Length Custom Horizontal Corners for 1/2" (12 mm) or 5/8" (16 mm) Glass Cap Railing can be manufactured to almost any angle and leg lengths the customer requires. Maximum leg lengths are 118" x 42" (3 x 1.07 m).

CAT. NO.	INFORMATION REQUIRED TO FABRICATE
GR0HLC	Use Custom Corner Order Form (see page B195)

Minimum order: 1 each.

CRL Custom Compound Angle Vertical Corners for 1/2" (12 mm) to 5/8" (16 mm) Glass Cap Railings

- Ready to Install
- Five Architectural Finishes Plus Mill Aluminum
- Requires Two Connector Sleeves (Not Included)

CRL Custom Compound Angle Vertical Corners for 1/2" (12 mm) to 5/8" (16 mm) Glass Cap Railing can be manufactured to almost any angle the customer requires. Lengths typically match our other corners, but they can be ordered in custom lengths as well.

CAT. NO.*	INFORMATION REQUIRED TO FABRICATE
GR0CVC	Use Custom Corner Order Form (see page B211)

Minimum order: 1 each. *Specify finish when ordering.

CRL Custom Compound Angle Vertical Corners for 3/4" (19 mm) Glass Cap Railings

- Ready to Install
- Available in Brushed and Polished Stainless
- Requires Two Connector Sleeves (Not Included)

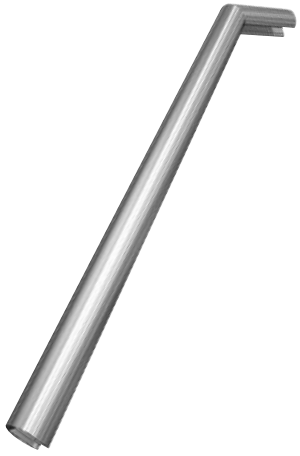
CRL Custom Compound Angle Vertical Corners for 3/4" (19 mm) Glass Cap Railing can be manufactured to almost any angle the customer requires. Lengths typically match our other corners, but they can be ordered in custom lengths as well.

CAT. NO.*	INFORMATION REQUIRED TO FABRICATE
GR07CVC	Use Custom Corner Order Form (see page B211)

Minimum order: 1 each. *Specify finish when ordering.

CRL Long Length Custom Vertical Corners for 1/2" (12 mm) to 5/8" (16 mm) Glass Cap Railings

- Ready to Install
- Five Architectural Finishes Plus Mill Aluminum
- Requires Two Connector Sleeves (Not Included)



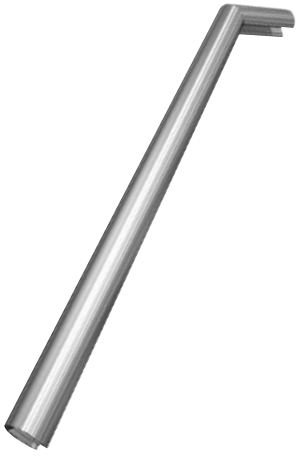
CRL Long Length Custom Vertical Corners for 1/2" (12 mm) to 5/8" (16 mm) Glass Cap Railing can be manufactured to almost any angle and leg lengths the customer requires. Maximum leg lengths are 118" x 42" (3 x 1.07 m).

CAT. NO.*	INFORMATION REQUIRED TO FABRICATE
GR0VLC	Use Custom Corner Order Form (see page B211)

Minimum order: 1 each. *Specify finish when ordering.

CRL Long Length Custom Vertical Corners for 3/4" (19 mm) Glass Cap Railings

- Ready to Install
- Available in Brushed and Polished Stainless
- Requires Two Connector Sleeves (Not Included)



CRL Long Length Custom Vertical Corners for 3/4" (19 mm) Glass Cap Railing can be manufactured to almost any angle and leg lengths the customer requires. Maximum leg lengths are 118" x 42" (3 x 1.07 m).

CAT. NO.*	INFORMATION REQUIRED TO FABRICATE
GR07VLC	Use Custom Corner Order Form (see page B211)

Minimum order: 1 each. *Specify finish when ordering.

CRL GRS CAP RAILING SYSTEMS

For Pricing Visit Our Web Site or Call Us Toll Free at the Phone Numbers Shown on the Back Cover

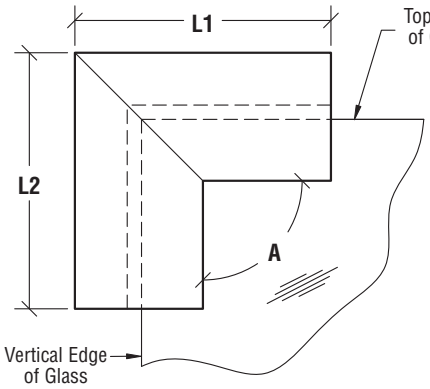
Date:_____ Company Name:_____ Your Name:_____

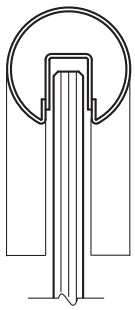
Phone #:_____ P.O. # (If Ordering):_____ Project Name:_____

Quantity:_____ Cap Rail Size:_____ Glass Thickness:_____ Finish:_____

For pricing or ordering assistance contact CRL 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 this form to CRL Technical Sales at (800) 587-7501 in the U.S., or (323) 584-5289 (Canada or International). **NOTE:** A final sign off is required prior to any custom fabrication.

Vertical Custom Corner Order Sheet



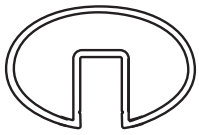


❑ Premium Square

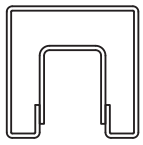
❑ Crisp Corner

Select Cap Profile

❑ Round



❑ Oval



❑ Square

Elevation of Cap Rail With Long Point Dimensions

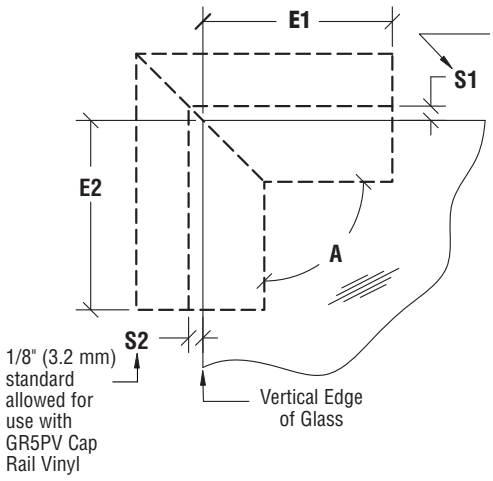
Specify Inches or Millimeters

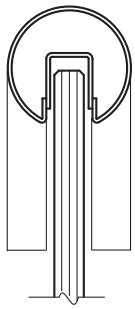
Long Point of Cap Rail L1= _____

Long Point of Cap Rail L2= _____

Inside Angle A= _____

Notes: _____



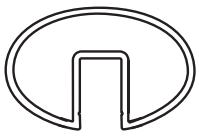


❑ Premium Square

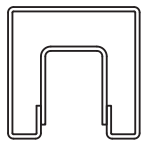
❑ Crisp Corner

Select Cap Profile

❑ Round



❑ Oval



❑ Square

Elevation of Cap Rail With Edge of Glass Dimensions

Specify Inches or Millimeters

End of Glass to End of Cap Rail E1= _____

End of Glass to End of Cap Rail E2= _____

Shim Space S1= _____

Shim Space S2= _____

Inside Angle A= _____

Notes: _____

C.R. Laurence Co.

Quote/Order Request Form

Fax Completed Checklist to C.R. Laurence Technical Sales at (800) 587-7501 in the U.S., or (323) 584-5289 (Canada and International). Then call to discuss: (800) 421-6144 (U.S.), (877) 421-6144 (Canada), or (323) 588-1281 (International). Ask for Extension 7730. This form is also available online at **crlaurence.com.**

Company Name _____ Phone # _____

Contact _____ Fax # _____

Job Name _____ Date _____

Important: Depending on the complexity of your project, one or more of the following may be required to accurately order: sketches or drawings of your particular application with dimensions; printed architectural drawings or cad files; photos of the job site conditions (digital images are preferable).

Stairway applications will require additional layout information. See typical layout drawing on page B2B that needs to be filled out at time of order. **NOTE:** A final sign off is required prior to any custom fabrication.

Glass Railing System Checklist Area:

GLASS RAILING STYLE

- ❑ Glass Rail System with Cap Rail
- ❑ Glass Rail System with Hand Rail Only
- ❑ Glass Rail System with Cap Rail and Hand Rail

CAP RAIL SIZE

- ❑ 1-1/2" (38.1 mm)
- ❑ 2" (50.8 mm)
- ❑ 2-1/2" (63.5 mm)
- ❑ 3" (76.2 mm)
- ❑ 3-1/2" (88.9 mm)
- ❑ 4" (101.6 mm)

GLASS THICKNESS

- ❑ 1/2" (12 mm) Monolithic Tempered Glass
- ❑ 5/8" (15 mm) Monolithic Tempered Glass
- ❑ 3/4" (19 mm) Monolithic Tempered Glass
- ❑ 9/16" (13.52 mm) Laminated Tempered
- ❑ 27/32" (21.52 mm) Laminated Tempered
- ❑ 1-1/16" (25.52 mm) Laminated Tempered (Glass not supplied by CRL)

GLAZING METHOD

- ❑ Dry Glazed with TAPER-LOC™ Tapers
- ❑ Wet Glazed with Kwixset® Expansion Cement

FLOOR SHIM/DRAIN BLOCKS

- ❑ Drain Blocks 1/2" (12.7 mm) Tall
- ❑ Weld Blocks (for Steel) 3/8" (9.5 mm) Tall
- ❑ None Required

PRICE IN STOCK LENGTHS OR FABRICATED

- ❑ Stock Lengths
- ❑ Fabricated (Cut to Size by CRL)

SUBSTRATE

- ❑ Concrete
- ❑ Steel
- ❑ Other (Specify) _____

GLASS RAILING HEIGHT

- ❑ 36" (914 mm)
- ❑ 42" (1067 mm)
- ❑ Other (Specify)

CAP RAIL PROFILE

- ❑ Round Profile Cap Rail
- ❑ Square Profile Cap Rail
- ❑ Other (Specify) _____

FINISH

- ❑ Brushed Stainless Steel
- ❑ Polished Stainless Steel
- ❑ Polished Brass
- ❑ Satin Brass
- ❑ Wood (Specify Type) _____
- ❑ Custom Powder Coated Aluminum
- ❑ Custom (Specify) _____

GLASS RAILING END CAPS

- ❑ Standard Applied Flat End Caps
- ❑ Stabilizing Wall Mount Flat End Caps
- ❑ Welded Flat End Caps
- ❑ Flat Wood End Caps (Specify Wood Type) _____
- ❑ Dome Wood End Caps (Specify Wood Type) _____
- ❑ Other (Specify) _____

BASE SHOE DRILLING

- ❑ Standard Drilling 12" (305 mm) on Center
- ❑ No Drilling
- ❑ Custom (Specify) _____

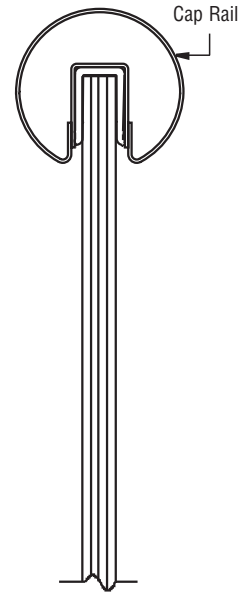
ATTACHMENT/MOUNTING

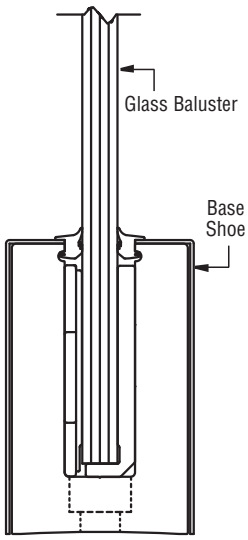
- ❑ Surface Mount (Top of Substrate)
- ❑ Embedded in Concrete Mount (Flush Set)
- ❑ Fascia Mount (Side Mounted)
- ❑ Other (Specify) _____

FLOOR CONDITION

- ❑ Flat
- ❑ Sloped _____ Degrees

Use Only TEMPERED GLASS

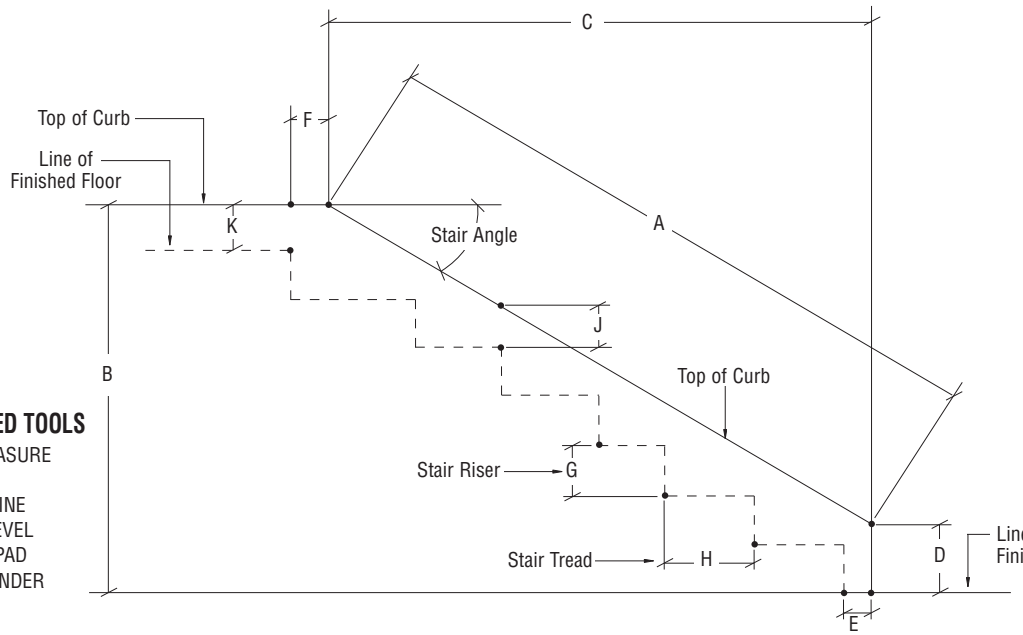




Practice Methods for Measuring Stairways

When measuring an existing stairway for CRL's Glass Railing System please keep in mind the importance of every measurement that is needed to produce the required railing system. Measure every dimension that is indicated below to ensure your railing system is produced correctly. **Important:** Depending on the complexity of your project, one or more of the following may be required to accurately order: sketches or drawings of your particular application with dimensions; printed architectural drawings or cad files; photos of the job site conditions (digital images are preferable).

Style #1
Measuring Curb Mount/Stringer Mount Stairways



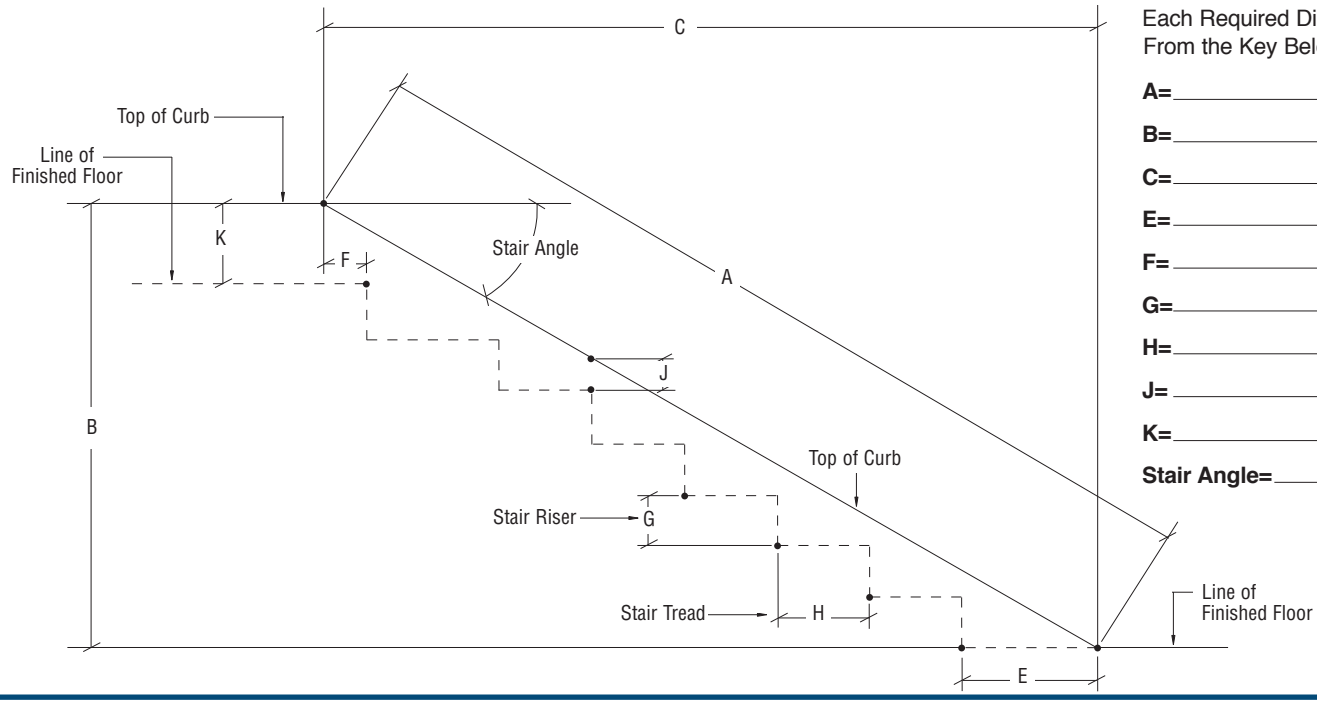
REQUIRED TOOLS

TAPE MEASURE
SQUARE
PLUMB LINE
LASER LEVEL
SKETCH PAD
ANGLE FINDER

Field Measure and Specify Each Required Dimension From the Key Below.

A=_____
B=_____
C=_____
D=_____
E=_____
F=_____
G=_____
H=_____
J=_____
K=_____
Stair Angle=_____

Style #2
Measuring Extended Curb Mount/Extended Stringer Mount Stairways



Field Measure and Specify Each Required Dimension From the Key Below.

A=_____
B=_____
C=_____
E=_____
F=_____
G=_____
H=_____
J=_____
K=_____
Stair Angle=_____

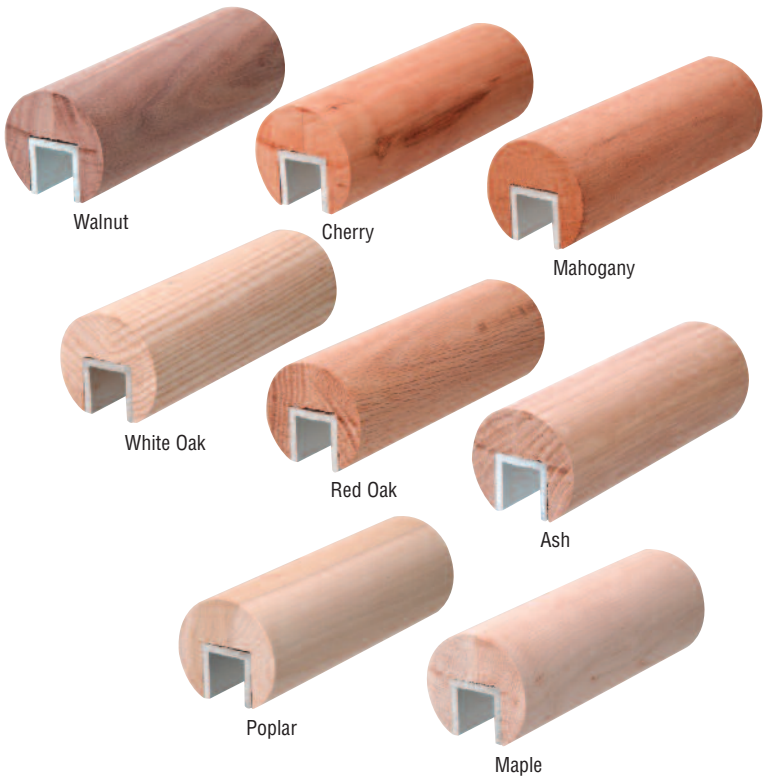
CRL Wood Cap Rails for 1/2" (12 mm), 5/8" (16 mm) or 3/4" (19 mm) Glass

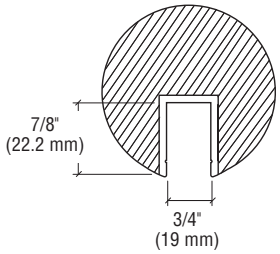
- 10 Foot (3.05 m) Stock Lengths Available in a Variety of Hardwoods
- Extruded Aluminum Interior Glass Pocket
- Custom Ordered to Meet Your Specific Needs
- Custom Diameters and Shapes Available

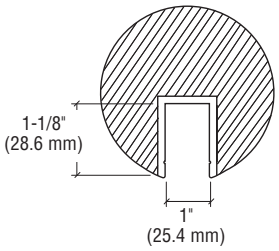
CRL Wood Cap Rails are produced to the customer's specifications, and can be fully fabricated or shipped in stock 10 foot (3.05 m) lengths. They are available in many different configurations, sizes, and types of hardwoods. CRL Wood Cap Rails have an extruded aluminum channel installed, providing a glass 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.

NOTE: 95CBL Silicone (see page B154) and Tuff-Pak (see page B202) should be used to secure the Wood Cap Rail to tempered glass.







120" (3.05 M) WOOD CAP RAILS FOR 1/2" (12 MM) OR 5/8" (16 MM) GLASS

2" (50.8 MM) DIAMETER	2-1/2" (63.5 MM) DIAMETER	3" (76.2 MM) DIAMETER	WOOD TYPE
WCR20WL	WCR25WL	WCR30WL	Walnut
WCR20CR	WCR25CR	WCR30CR	Cherry
WCR20MG	WCR25MG	WCR30MG	Mahogany
WCR20WO	WCR25WO	WCR30WO	White Oak
WCR20RO	WCR25RO	WCR30RO	Red Oak
WCR20AS	WCR25AS	WCR30AS	Ash
WCR20PL	WCR25PL	WCR30PL	Poplar
WCR20MP	WCR25MP	WCR30MP	Maple

Minimum order: 1 each. Comes complete with 1" x 1" (25.4 x 25.4 mm) O.D. extruded aluminum channel installed. All Wood Rails are F.O.B. the nearest CRL regional warehouse.

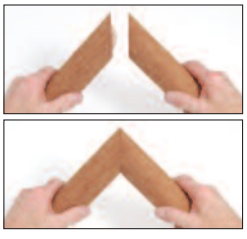
120" (3.05 M) WOOD CAP RAILS FOR 3/4" (19 MM) GLASS

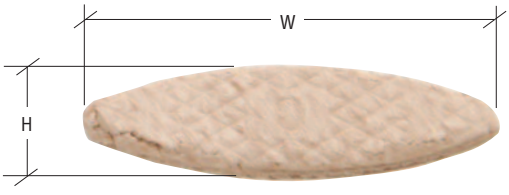
2-1/2" (63.5 MM) DIAMETER	3" (76.2 MM) DIAMETER	WOOD TYPE
WCR257WL	WCR307WL	Walnut
WCR257CR	WCR307CR	Cherry
WCR257MG	WCR307MG	Mahogany
WCR257WO	WCR307WO	White Oak
WCR257RO	WCR307RO	Red Oak
WCR257AS	WCR307AS	Ash
WCR257PL	WCR307PL	Poplar
WCR257MP	WCR307MP	Maple

Minimum order: 1 each. Comes complete with 1-1/4" x 1-1/4" (31.8 x 31.8 mm) O.D. extruded aluminum channel installed. All Wood Rails are F.O.B. the nearest CRL regional warehouse.

CRL Wood Biscuits

- Provides Excellent Hold Power
- Made From Compressed Cross Hatched Beechwood
- Installs With Wood Glue





Use CRL Wood Biscuits when joining Wood Cap Rails and mitered Wood Hand Rail Corners. Die-cut from beechwood blanks, 1/8" (3.2 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.

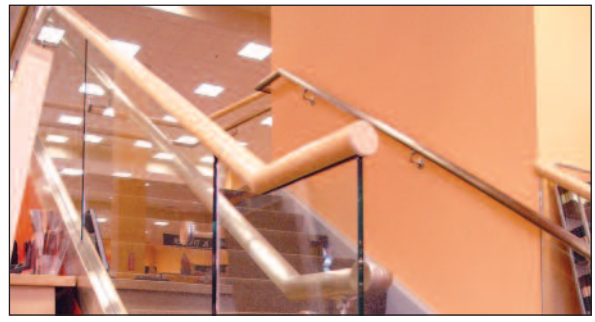
CAT. NO.	"H" HEIGHT	"W" WIDTH	QTY/CTN
CRLWB1	5/8" (15.9 mm)	1-11/16" (42.9 mm)	25 Biscuits

Minimum order: 1 carton.

CRL Wood Flat End Caps

- Ready to Install
- Formed and Shaped to Fit
- Available in a Variety of Hardwoods

CRL's Wood Decorative Flat End Caps are cut to size and are ready to install. Measuring 1/2" (12.7 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 CRL 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" (50.8 MM) DIAMETER END CAPS	2-1/2" (63.5 MM) DIAMETER END CAPS	3" (76.2 MM) DIAMETER END CAPS	WOOD TYPE
WREC20WL	WREC25WL	WREC30WL	Walnut
WREC20CR	WREC25CR	WREC30CR	Cherry
WREC20MG	WREC25MG	WREC30MG	Mahogany
WREC20WO	WREC25WO	WREC30WO	White Oak
WREC20RO	WREC25RO	WREC30RO	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 Wood Dome End Caps

- Ready to Install
- Formed and Shaped to Fit
- Available in a Variety of Hardwoods

CRL's Wood Decorative Dome End Caps are cut to size and are ready to install. Measuring 1" (25.4 mm) thick, these end caps are designed to be glued to the end of the CRL's Wood Cap Rails with wood glue (see below). Custom shapes and sizes are also available. Contact CRL 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" (50.8 MM) DIAMETER END CAPS	2-1/2" (63.5 MM) DIAMETER END CAPS	3" (76.2 MM) DIAMETER END CAPS	WOOD TYPE
WRDC20WL	WRDC25WL	WRDC30WL	Walnut
WRDC20CR	WRDC25CR	WRDC30CR	Cherry
WRDC20MG	WRDC25MG	WRDC30MG	Mahogany
WRDC20WO	WRDC25WO	WRDC30WO	White Oak
WRDC20RO	WRDC25RO	WRDC30RO	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

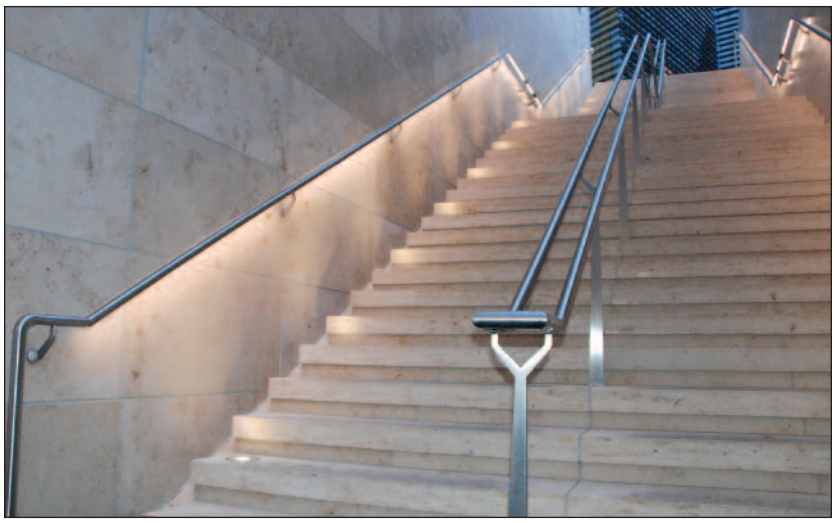
Use CRL Titebond® III Wood Glue when joining Wood Cap Rails, mitered Wood Hand Rail Corners, and installing Wood End Caps. This waterproof, water based formula passes Type 1 water-resistance specifications and conforms to ASTM D-4236. Unaffected by finishes this Glue will fully setup within 24 hours and is designed for interior and exterior applications.

CAT. NO.	CONTENTS
CRLWG1	8 Oz. (236 ml)

Minimum order: 1 each.

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
- Meet A.D.A. Requirements for Hand Railing Diameters



LED Light Strips in CRL Hand Railing installed at CityCenter, Las Vegas

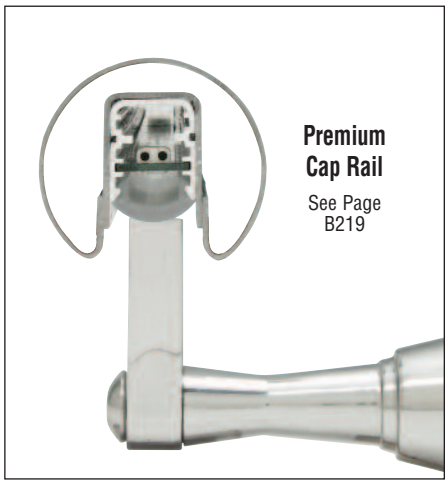
The Benefits of LED Lighting Versus Fluorescent Lights

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.

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 B217

Low Voltage Driver
See Page B217

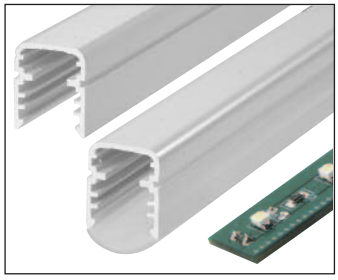


Premium Cap Rail
See Page B219

Driver Enclosure Box

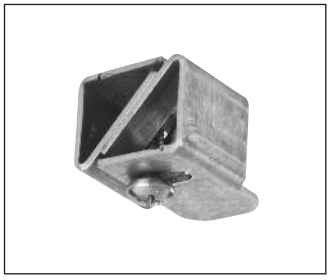
See Page B217

LED Lighting/Housings



See Pages B217 to B218

LED Housing Mounting Clip



See Page B218

LED Wiring

See Page B220

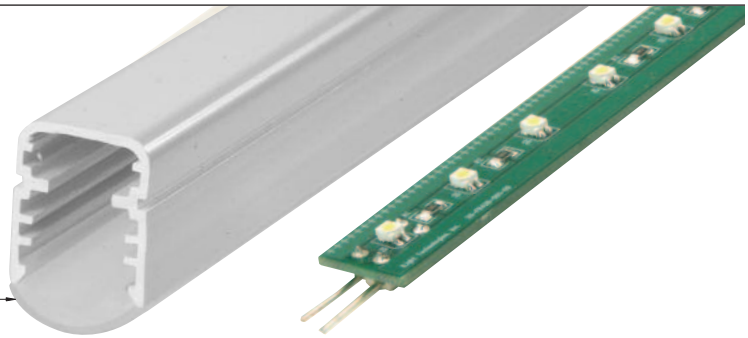
CRL LED Lighting Components

- 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

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



Cap Rail Insert Housing Sold Separately (See Page B218)

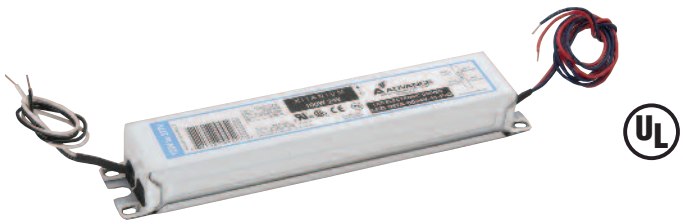
WARM WHITE CAT. NO.	COOL WHITE CAT. NO.	STRIP LENGTH
LED24WW	LED24CW	24" (610 mm)
LED36WW	LED36CW	36" (914 mm)
LED48WW	LED48CW	48" (1219 mm)
LED60WW	LED60CW	60" (1524 mm)
LED72WW	LED72CW	72" (1829 mm)

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" (203.2 mm)
Depth: 4" (101.6 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.

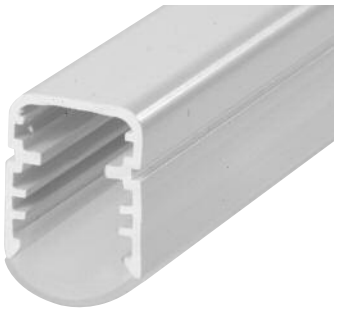
CRL Cap Rail Housing Insert With Frosted Lens for LED Strip Lights

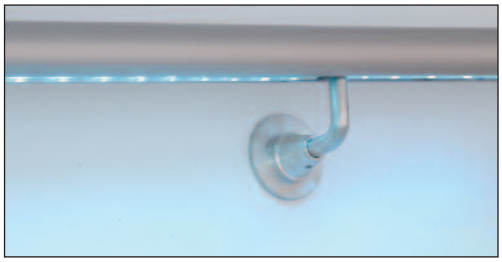
- **Illuminate CRL Cap Rails When Used in Hand Rail Applications**
- **Installs With LED Housing Mounting Clips (See Below)**

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 previous page).

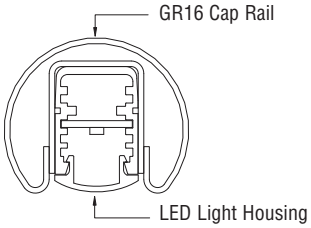
INSERT WITH LENS COVER CAT. NO.	LENGTH
LEDSQ6	72" (1829 mm)

Minimum order: 1 each.





Wall Mount Hand Railing Application



Post Mount Hand Railing Application

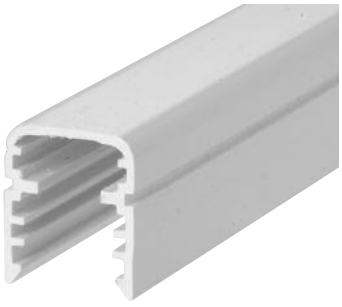
CRL Cap Rail Housing Insert for Glass Panel Edge Lighting

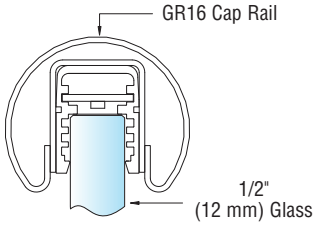
- **For Use With CRL Cap Rails When Edge Lighting Glass Panels**
- **Installs With CRL 95C Silicone and Housing Shims (See Below)**

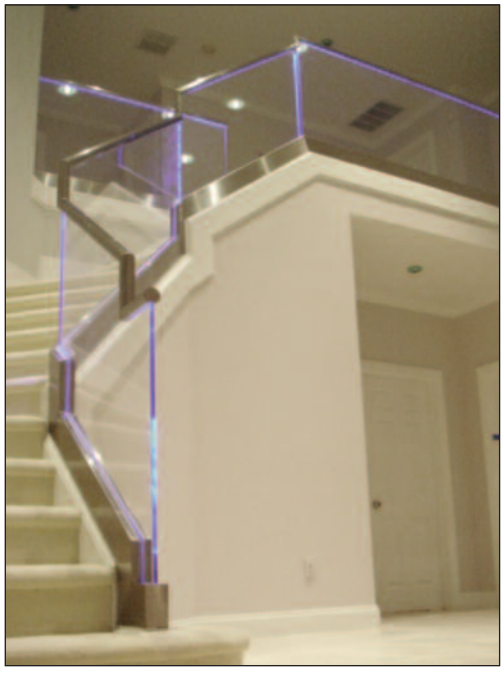
This CRL Cap Rail Housing Insert slips over the 1/2" (12 mm) glass panel and provides a protected securing channel for the glass. It also has a slot for the LED Light Strip and an insulated wire raceway behind the LED Light Strip. Permanent securing is achieved by applying a bead of Cat. No. 95CBL Black Silicone (see page B154) in the pocket on either side of the glass. LED Strip Lights must be ordered separately (see previous page).

INSERT ONLY CAT. NO.	LENGTH
LEDCR6	72" (1829 mm)

Minimum order: 1 each.

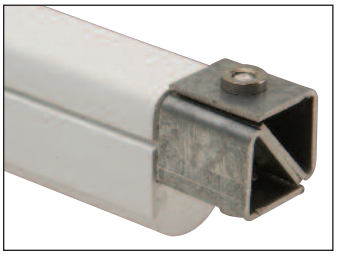






CRL LED Housing Mounting Clip new

- **Installs at Each End to Wedge Housing Into the Cap Rail**



CAT. NO. LEDMC1

10 Clips per pack.
Minimum order is one pack.

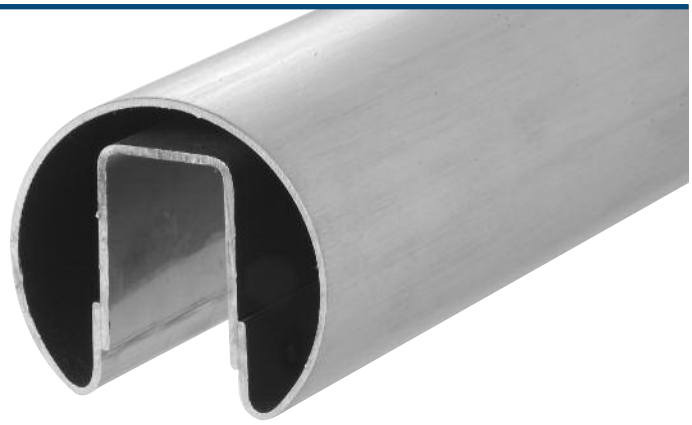
CRL LED Housing Shim Pack new

- **Helps Hold Cap Rail Housing in Position During Installation**

CAT. NO. LEDST1

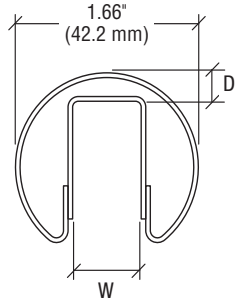
10 Shims per pack.
Minimum order is one pack.

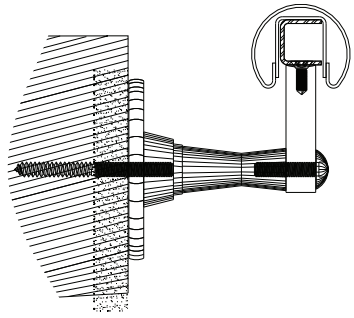
CRL Premium Cap Rail for Wall Mounted Hand Rail LED Lighting Applications



- 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
- 304 Alloy is Standard, 316 Alloy Available on Special Order

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. 32629 Metal Contact Cement (see page B337) is required to achieve a secure and permanent bond at all connections.





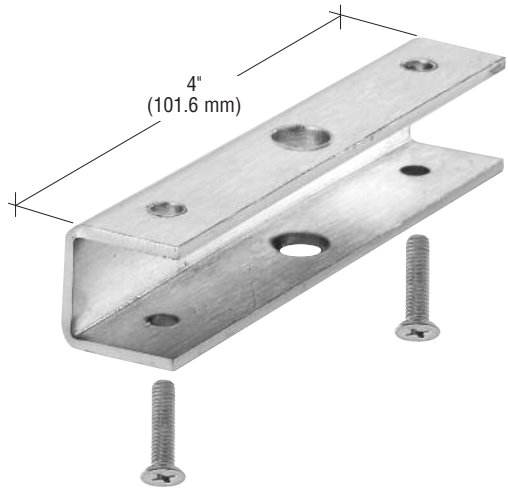
120" (3.05 M) CAT. NO.	168" (4.27 M) CAT. NO.	FINISH	"W" WIDTH	"D" DEPTH	MATERIAL THICKNESS	USE SLEEVE NO.
GR16BS	GR16BS14	Brushed Stainless	3/4" (19 mm)	1/4" (6.3 mm)	.0625" (1.59 mm)	GR16CSS
GR16PS	GR16PS14	Polished Stainless	3/4" (19 mm)	1/4" (6.3 mm)	.0625" (1.59 mm)	GR16CSS

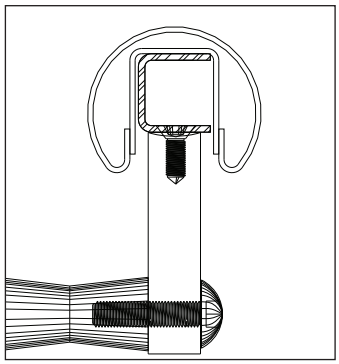
Minimum order: 1 each. Sizes and finishes can be combined for quantity pricing. Must ship common carrier.

CRL Wall Mounted Hand Rail Bracket Saddle Adapter

- Allows LED Wiring to Pass Through Without Interruption
- Designed for Use With CRL's HR2D and HR2S Hand Rail Brackets (See Pages B316-B317)
- Brushed and Polished Stainless Finishes
- 304 Alloy is Standard

new





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.

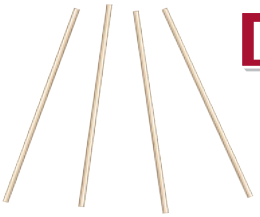
CAT. NO.	FINISH
LEDS1BS	Brushed Stainless
LEDS1PS	Polished Stainless

Minimum order: 1 each.

CRL LED LIGHTING

CRL Jumper Pins

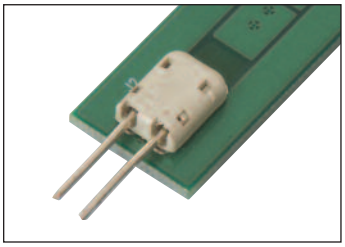
- Designed for Connecting/Bridging LED Light Strips
- Easy to Install



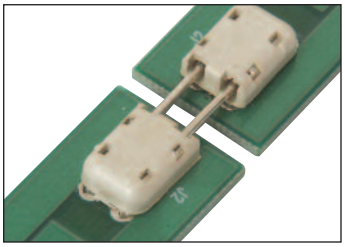
new

CAT. NO. LEDJP1

Jumper Pins come in packs of 10 Pins. Minimum order is one pack.



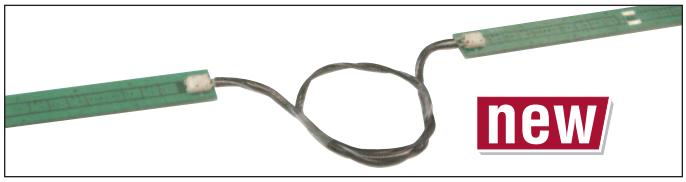
Insert Pins



Mate to adjoining Light Strip

CRL Jumper Wires

- 18 Gauge Wiring for Connecting/Bridging LED Light Strips Together
- Available in Three Lengths



new

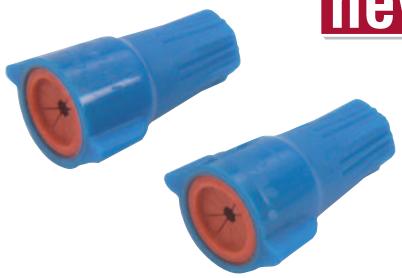
CAT. NO.	DESCRIPTION
LEDWR12	12" (305 mm) 18 Gauge Jumper Wire
LEDWR10	10' (3 m) 18 Gauge Jumper Wire
LEDWR50	50' (15.2 m) 18 Gauge Jumper Wire

Minimum order: 1 each.

CRL Silicone Based Wire Nuts

- Wire Nuts Used for LED Wiring Connections

new



Wire Nuts are sold in packs of 10 each. Minimum order is one pack.

CAT. NO. LEDWN1

CRL LED Lead Wire

new

- 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

CRL Gate Systems and Hardware

CRL Makes Gates for Our Major Railing Systems:

- Cap Railing Swinging Gates
- Aluminum Railing System Gates
- Aluminum Windscreen System Gates

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, and outdoor dining areas.

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 finishes can be complementary or in contrast, and infill options can range from glass to pickets.

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. Other systems for use with Aluminum Railings and Windscreens are shown on pages B462 to B473. Once you determine the right gate for your railing, glass pool surround or windscreen project, we invite you to contact the CRL Railing Technical Sales Staff. We can assist with the design, ordering, and installation process.

Gate Hardware

We provide a large selection of hardware for the fabrication and mounting of attractive and secure gate systems. All of it is designed to provide smooth operation and look good while doing it. You can see them on pages B224 to B234, and B467 to B473.

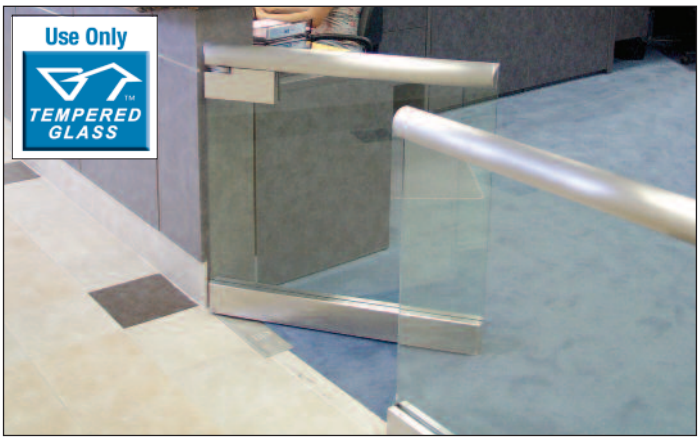
Pivots and Patch Fittings

Self-Closing Hinges

Locks, Bolts, and Latches

CRL GRS Cap Railing Swinging Gate

- Heavy-Duty Glass Gate With Optional Cap Rail
- 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
- Ask About Our New Free-Standing Post Model



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.

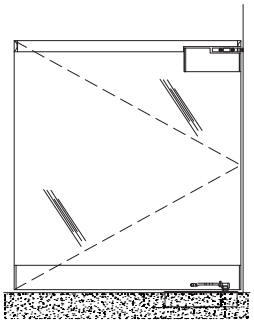
All Swinging Gates are custom fabricated to your specifications.

The unit above was mounted to a 4" (101.6 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. Available in either Wall Mount or Post Mount models.

NOTE: Available by custom order only. Most orders can be fabricated in five business days at our Los Angeles, California manufacturing facility. 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 send e-mail from the **crlaurence.com** home page. Click on Contact Us, and then click on Technical Sales for Railing Products.

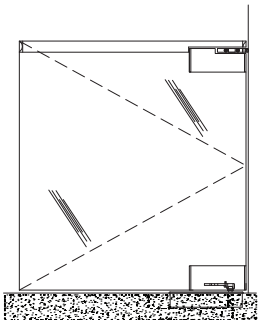
Wall Mounted (Type W#) and Post Mounted (Type P#) Gates

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.



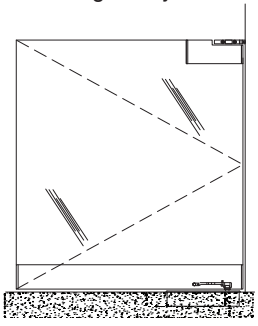
TYPES W1/P1

Wall or post mount top pivot, floor closer, cap rail, top patch, and full bottom rail.



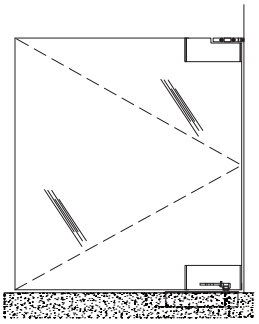
TYPES W2/P2

Wall or post mount top pivot, floor closer, cap rail, top and bottom patch.



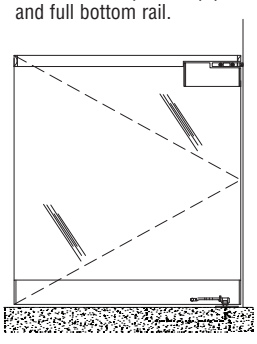
TYPES W3/P3

Wall or post mount top pivot, floor closer, top patch, and full bottom rail.



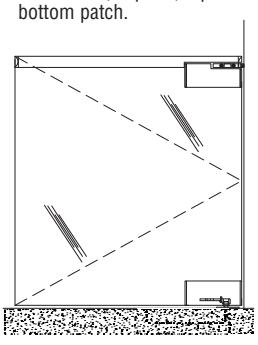
TYPES W4/P4

Wall or post mount top pivot, floor closer, top and bottom patch.



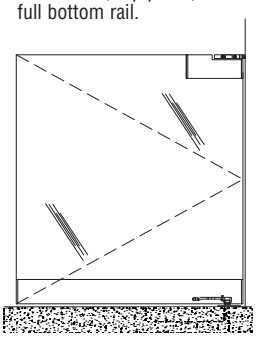
TYPES W5/P5

Wall or post mount top and bottom pivots, cap rail, top patch, and full bottom rail.



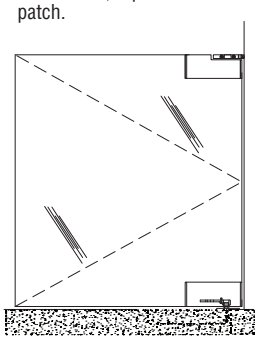
TYPES W6/P6

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.

NOTE: We recommend the use of 1/2" (12 mm), 5/8" (16 mm), or 3/4" (19 mm) tempered monolithic or tempered laminated glass.

CRL GRS Cap Railing Swinging Gate

- 16 Configurations to Choose From
- Wall or Post Mounted
- Four Handing Options
- Stainless Steel, Anodized, and Painted Finishes
- Every Swinging Gate is Custom Fabricated to Your Requirements
- Optional Locks Available

Use Only TEMPERED GLASS

CRL GRS Cap Railing Swinging Gate System With Wood Top Rail

WALL MOUNT SWINGING GATE WITH

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

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

POST MOUNT SWINGING GATE WITH

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

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

NOTE: We recommend the use of 1/2" (12 mm), 5/8" (16 mm), or 3/4" (19 mm) tempered monolithic or tempered laminated glass.

CRL This Menu to Design the Swinging Gate of Your Choice

SELECT GATE STYLE

Wall Mount
- ❑ W1
- ❑ W2
- ❑ W3
- ❑ W4
- ❑ W5
- ❑ W6
- ❑ W7
- ❑ W8

Post Mount
- ❑ P1
- ❑ P2
- ❑ P3
- ❑ P4
- ❑ P5
- ❑ P6
- ❑ P7
- ❑ 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 Glass Mounted Latch Lock
- ❑ PTH312
- ❑ PTH314
- ❑ PTH303
- ❑ None

FINISH

- ❑ Brushed Stainless Steel (BS)
- ❑ Polished Stainless Steel (PS)
- ❑ Polished Brass (PB)
- ❑ Satin Brass (SB)
- ❑ Satin Anodized (SA)
- ❑ Dark Bronze Anodized (DU)
- ❑ Powder Coated (PT) RAL# _____
- ❑ Custom Finish (C) Specify _____

FLOOR CLOSER/FLOOR PIVOT OPTIONS

- ❑ J990NHOD 180 Degree Swing No Hold Open
- ❑ J993HOD 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

- ❑ 1/2" (12 mm)
- ❑ 5/8" (16 mm)
- ❑ 3/4" (19 mm)
- ❑ Other _____

TOP CAP DIAMETER

- ❑ 1-1/2" (38.1 mm) Diameter Top Cap
- ❑ 2" (50.8 mm) Diameter Top Cap
- ❑ 2-1/2" (63.5 mm) Diameter Top Cap
- ❑ 3" (76.2 mm) Diameter Top Cap
- ❑ 3-1/2" (88.9 mm) Diameter Top Cap
- ❑ 4" (101.6 mm) Diameter Top Cap
- ❑ 1-1/2" (38.1 mm) Square Top Cap
- ❑ 2" (50.8 mm) Square Top Cap
- ❑ 2-1/2" (63.5 mm) Square Top Cap
- ❑ No Cap

POST SIZE

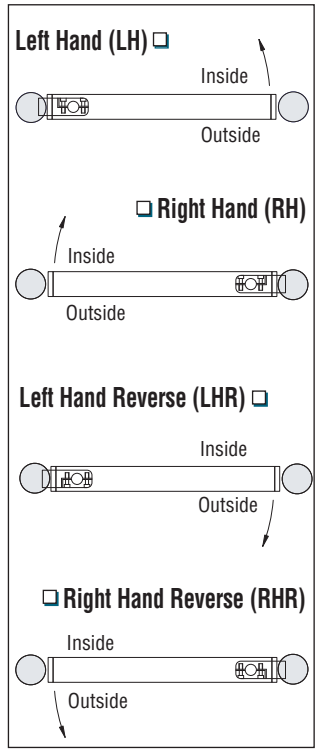
Round Post
- ❑ 2-1/2" (63.5 mm) Diameter
- ❑ 2-7/8" (73 mm) Diameter
- ❑ 3" (76.2 mm) Diameter
- ❑ 4" (101.6 mm) Diameter

Square Post
- ❑ 2-1/2" x 2-1/2" (63.5 mm)
- ❑ 2-7/8" x 2-7/8" (73 mm)
- ❑ 3" x 3" (76.2 mm)
- ❑ Other _____

BOTTOM RAIL STYLE

- ❑ 4" (101.6 mm) Tall (Wide Style) Bottom Rail
- ❑ 4" (101.6 mm) Standard Bottom Rail
- ❑ 9-1/2" (241 mm) Long Patch Fitting

HANDING



CRL GRS Cap Railing Swinging Gate Hardware

For Information on Complete Gate Systems See Pages B222 to B223

- **For Free-Swinging or Floor Mounted Door Closer Gates**
- **Steel Brackets Fit Under Top Cap**

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 Technical Sales.

CRL AGT3 Horizontal Mount Pivot Bracket

- **2-3/4" (70 mm) American Standard Setback**
- **Non-Handed**
- **Available in 304 Alloy Brushed and Polished Stainless Steel**

For AGT3 Replacement Pin Order
CAT. NO. AGTP1

The AGT3 Series 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 AGT2 Vertical Mount Pivot Bracket

- **Supports Transom Weight**
- **Right and Left Handed Models**
- **Available in 304 Alloy Brushed and Polished Stainless Steel**

Left Hand Shown

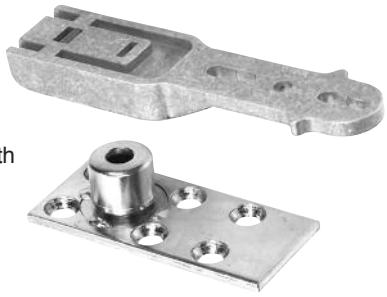
The AGT2 Series Vertical Mount Pivot Bracket was designed to accommodate an 'all-glass' transom. It will support the weight of the transom and provide a top pivoting point for the door. Brackets are handed, order appropriate handing for your installation. **NOTE:** Must be attached to a substrate with sufficient structural integrity for support.

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.

CRL Free-Swinging Bottom Gate Pivot

- **Designed to Fit CRL Wedge-Lock® Gate Rails**



This Free-Swinging Pivot Set is designed to be used with CRL Wedge-Lock® Gate Rail Systems. Minimum order is one each.
Maximum Weight Capacity: 200 pounds (90 kg).

CAT. NO. CRL8010BP

CRL Adjustable Dual-Purpose Bottom Gate Pivot Set

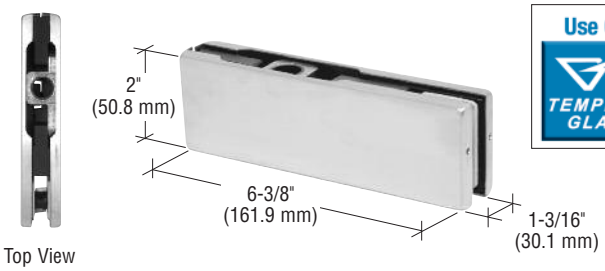
- **Mounts Directly to Floor or Threshold**

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.
Maximum Weight Capacity: 200 pounds (90 kg).

CAT. NO. CRL8010DP

CRL Top and Bottom Gate Patch Fittings

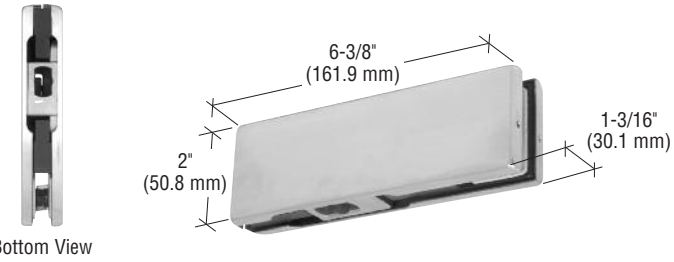
• 304 Alloy Stainless Steel Covers



Top View

CRL Top Gate Patch Fittings are used with all three of our gate and door pivots. It fits in the upper corner of the gate's glass panel, and requires a hole and cut-out in the glass. Available in brushed stainless steel finish, it comes complete with instructions and a glass cut-out template.

CAT. NO. PH20ABS



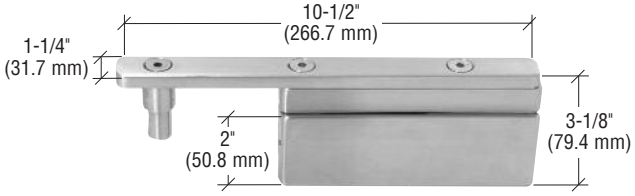
Bottom View

CRL Bottom Gate Patch Fittings are used with our bottom door pivots or floor closers. It fits in the lower corner of the gate's glass panel, and requires a hole and cut-out in the glass. Available in brushed stainless steel finish, it comes complete with instructions and a glass cut-out template. Minimum order is one each.

CAT. NO. PH10CBS

CRL Glass-to-Glass Gate Pivot Patch

• 304 Alloy Stainless Steel



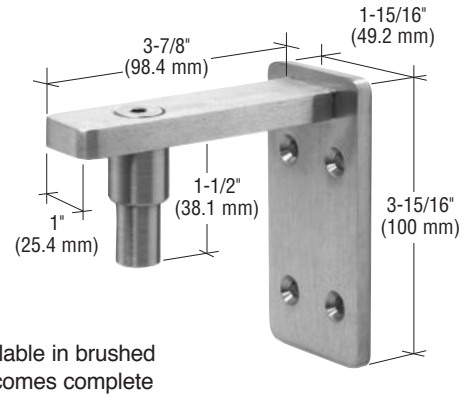
This CRL Glass-to-Glass Gate Pivot Patch is designed to allow for a gate in an 'all-glass' windscreen using either Base Shoe or Frameless Windscreen Clamps. It fits in the upper corner of the fixed glass panel, and requires a hole and glass cut-out in the glass. As a safety measure the bottom of the pivot bar is raised 3/4" (19 mm) above the CRL Top Gate Patch Fitting (not included), allowing for adequate space to help prevent pinching of fingers. Brushed stainless steel finish, complete with instructions and a glass cut-out template. Minimum order is one each.

CAT. NO. GGP12BS

CRL Wall Mount Gate Pivot

• 304 Alloy Stainless Steel

This CRL Wall Mount Gate 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 Gate Patch Fitting (not included), allowing for adequate space to help prevent pinching of fingers. Available in brushed stainless steel finish, it comes complete with instructions and a glass cut-out template. Minimum order is one each.

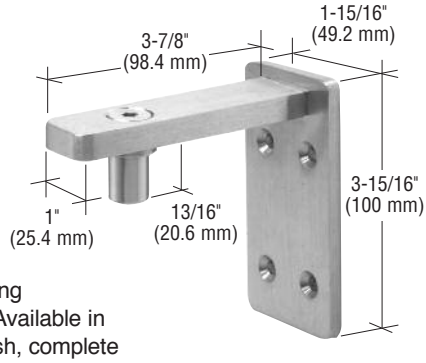


CAT. NO. WGP22BS

CRL Wall Mount Gate Pivot

• 304 Alloy Stainless Steel

This CRL Wall Mount Gate Pivot is designed for mounting to a post or wall. The space between the bottom of the pivot bar and the CRL Top Gate Patch Fitting (not included) has been reduced to 1/8" (3 mm), so at gate height the chance of pinching fingers is greatly reduced. Available in brushed stainless steel finish, complete with instructions and a glass cut-out template. Minimum order is one each.

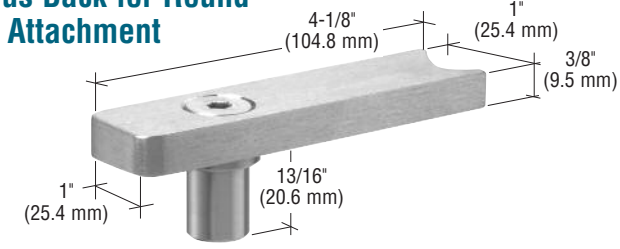


CAT. NO. WDP32BS

CRL Round Post Mount Gate Pivot

• 304 Alloy Stainless Steel

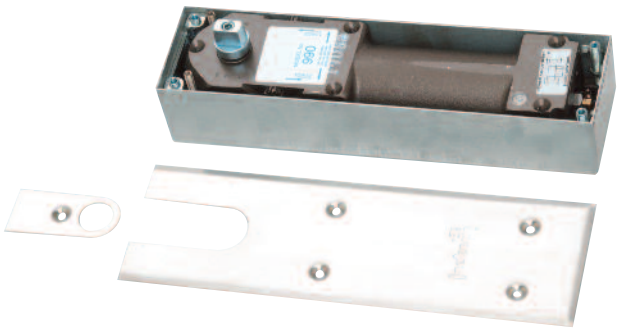
• Radius Back for Round Post Attachment

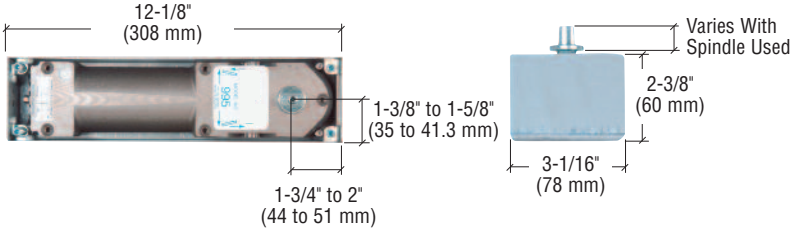


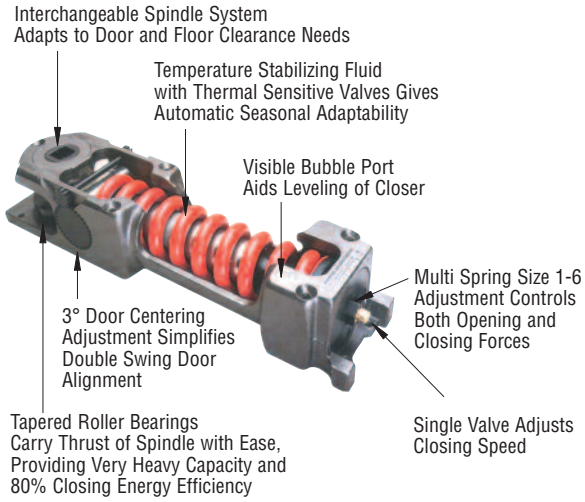
CRL's Round Post Mount Gate Pivot is a radiused back pivot bar designed to support the top section of the CRL Top Gate Patch Fitting (not included). Fits post radius of 1.9" O.D. The Pivot requires welding to the post and comes drilled and tapped for attachment prior to the welding process. Minimum order is one each. CAT. NO. 8100RP

CRL 900 Series Heavy-Duty Floor Mounted Door Closers

- 1000 Pound (454 kg) Capacity, 54" (1372 mm) Doors
- Multi-Size Spring Power Adjustable
- Interchangeable Spindle Heights
- Levelling and Door Centering Adjustments
- 10 Year Limited Warranty
- UL Listed







SPECIFICATIONS:
Maximum Center-Hung Door: Weight = 1000 lbs. (454 kg), Width = 54" (1372 mm)
Maximum 3/4" Offset Door: Weight = 650 lbs. (295 kg), Width = 48" (1219 mm)
Maximum 1-1/2" Offset Door: Weight = 300 lbs. (136 kg), Width = 42" (1067 mm)
Adjustable Spring Power: Multi-Size 1 - 6
Door Centering Adjustment: 6 Degree Range Adjustment to Align Door
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 Door Closer is a heavy-duty, fully adjustable closer designed for new and retrofit applications. Accessories are available for either double or single acting doors. With its 1000 pound (454 kg) capacity, the 900 Series Floor Closer can be used with larger and heavier interior or exterior doors 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.

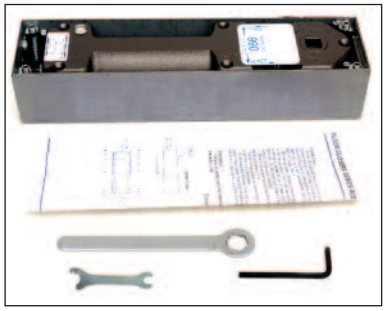
This fully adjustable Closer meets A.D.A.* requirements in that it can be set at 5 or 8.5 pound opening forces. The unique centering adjustment simplifies double door alignment. This closer provides seasonal adaptability for areas with extreme temperature changes due to its multi-viscosity temperature stabilizing fluid with thermal sensitive valves. Packages for new and retrofit installations, as well as accessories for both Center-Hung and Offset door applications, are available.

For more 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. 7700. You can also e-mail us through our web site at **crlaurence.com**. From the home page click on Contact Us, and then click on Technical Sales for Commercial Products.

NOTE: This Closer is designed to open to a maximum of 180 degrees. An auxiliary floor or overhead stop is required to stop the door at less than 180 degrees.

Basic Closer Package

CONSISTS OF:
990 Closer Body
Cement Case
Installation Tool Package

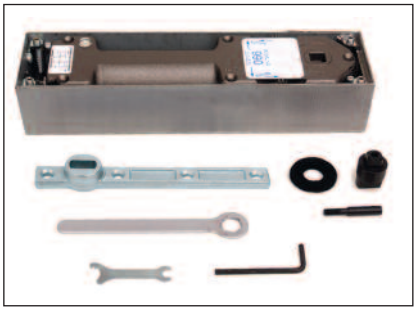


CAT. NO.	DESCRIPTION
J990NH0D	180 Degree Swing No Hold Open
J993H0D	180 Degree Swing Hold Open @ 90 Degrees and 120 Degrees
J994H0D	180 Degree Swing Hold Open @ 105 Degrees
J995BCD	180 Degree Swing No Hold Open – Backcheck @ 85 Degrees

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

Center-Hung Package

CONSISTS OF:
990 Closer Body
Cement Case
J7080 Center-Hung
Arm CRL9040S8 Flat
Tapered Spindle
Installation Tool Package



CAT. NO.	DESCRIPTION
J990NH0N	180 Degree Swing No Hold Open
J993H0N	180 Degree Swing Hold Open @ 90 Degrees and 120 Degrees
J994H0N	180 Degree Swing Hold Open @ 105 Degrees
J995BCN	180 Degree Swing No Hold Open – Backcheck @ 85 Degrees

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

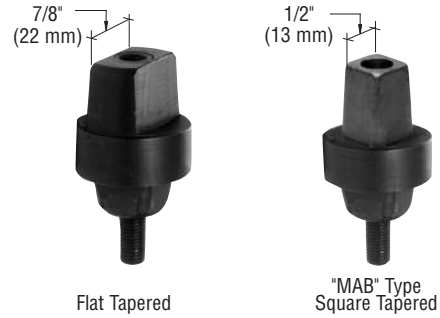
NOTE: *Closers set to comply with A.D.A. specified opening forces might not provide adequate spring power to control and close the door due to varying site conditions and door size.

CRL GRS GATE HARDWARE

CRL Interchangeable Floor Closer Spindles

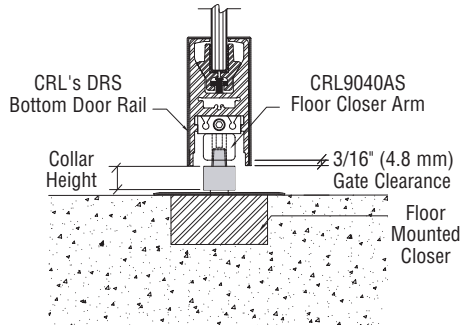
• Fits 900 Series Floor Mounted Door Closers

CRL Flat Tapered and "MAB" Type 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 Door 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. The "MAB" Style Spindle is commonly used throughout Europe and South America.



FLAT TAPERED CAT. NO.	"MAB" TYPE SQUARE TAPERED CAT. NO.	COLLAR HEIGHT/DRS DOOR CLEARANCE	STANDARD DOOR CLEARANCE
CRL9040S3	CRL9050S3	1/8" (3 mm)	5/16" (8 mm)
CRL9040S8	CRL9050S8	5/16" (8 mm)	1/2" (13 mm)
CRL9040S13	CRL9050S13	1/2" (13 mm)	11/16" (17 mm)
CRL9040S18	CRL9050S18	3/4" (19 mm)	15/16" (24 mm)
CRL9040S23	CRL9050S23	7/8" (22 mm)	1-1/16" (27 mm)
CRL9040S28	CRL9050S28	1-1/8" (29 mm)	1-5/16" (33 mm)
CRL9040S33	CRL9050S33	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

• Fits 900 Series Floor Mounted Door Closers

These Floor Closer Cover Plates are for use with CRL 900 Series Floor Mounted Door 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
J7020CPPB	Polished Brass
J7020CPPS	Polished Stainless Steel
J7020CPDU	Dark Bronze

Minimum order: 1 each.

CRL Center-Hung Bottom Arms

Arm for Aluminum, Steel or Wood Gates
CAT. NO. J7080

Arm for CRL Door Rail Type Gates
CAT. NO. CRL9040AS

These CRL Center-Hung Floor Closer Arms should be used with gates having a minimum 3/4" (19 mm) deep bottom door 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.

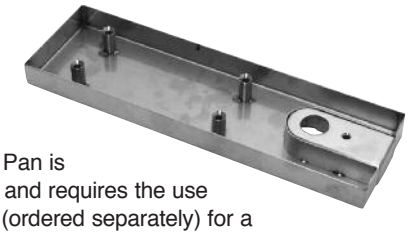
CAT. NO.	APPLICATION
J7080	For Aluminum, Steel or Wood Gates
CRL9040AS	For CRL Door Rail Type Gates

Minimum order: 1 each.

CRL Floor Closer Terrazzo Pan

new

• For Use With 900 Series Floor Closers Only



Used to maintain the aesthetics of a continuous floor line when using flooring material such as terrazzo, tile, marble, etc. Pan is 13/16" (20.6 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

new

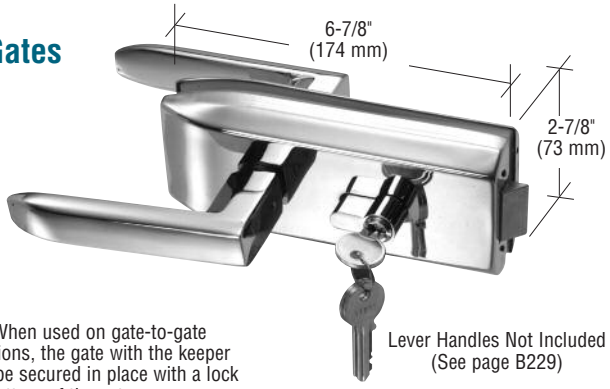
• Fits 900 Series Floor Mounted Door Closers

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.

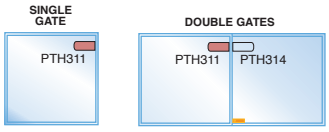
CAT. NO. J9010

CRL Glass Mounted Latch

- Works on Single or Double Gates
- For 3/8" or 1/2" (10 or 12 mm) Glass
- Field Reversible
- 304 Grade Stainless Steel



Lever Handles Not Included (See page B229)



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.

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 a PTH314, 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

Use Only TEMPERED GLASS

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.

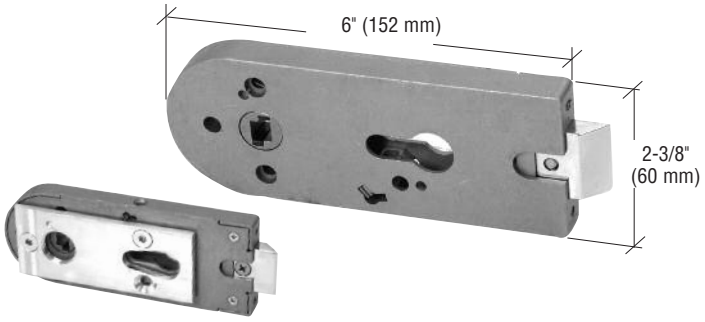
CRL Locking Latch Mechanism

- Works With PTH311 Series Lever Latches
- Reversible to Meet All Applications

The PTH300L Latch Mechanism is a replacement latch for the PTH311 Glass Mounted Latch shown above. It is reversible for both handle lifting springs and latch bolt configuration.

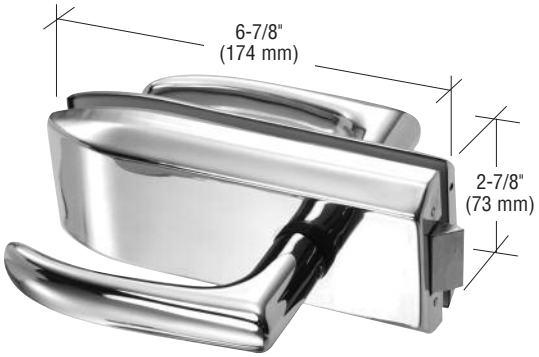
CAT. NO.	MATERIAL
PTH300L	Raw Zinc

Minimum order: 1 each.

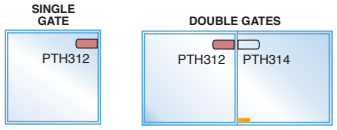


CRL Glass Mounted Passage Latch

- Works on Single or Double Gates
- For 3/8" or 1/2" (10 or 12 mm) Glass
- 304 Grade Stainless Steel



Lever Handles Not Included (See page B229)



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

Included

Use Only TEMPERED GLASS

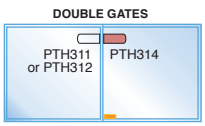
CAT. NO.	FINISH
PTH312A	Clear Anodized
PTH312BR	Polished Brass
PTH312BS	Brushed Stainless
PTH312PS	Polished Stainless

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
- 304 Grade Stainless Steel

Use Only TEMPERED GLASS



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

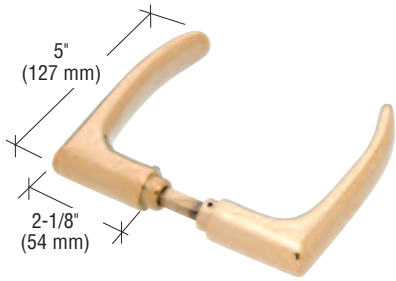
COMES WITH:
Template and Instructions

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.

CRL GRS GATE HARDWARE

CRL Sculptured Style Lever Handles



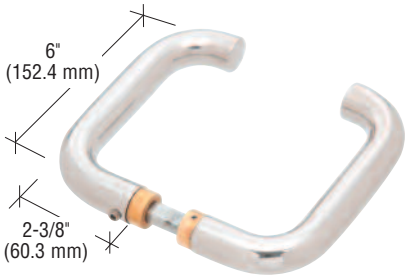
- **Available in Three Finishes**

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 Patch Handles can be combined for quantity pricing.

CRL Tubular Style Lever Handles



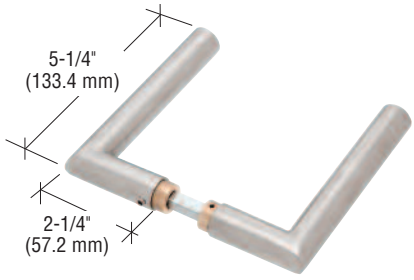
- **Available in Four Finishes**

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 Patch Handles can be combined for quantity pricing.

CRL Modern Style Lever Handles



- **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 Patch Handles can be combined for quantity pricing.

CRL Extended Length Keyed Cylinders

- **Works on PTH311 Series Lever Latch Installation and Euro Style Patch Locks EUR205, EUR680, and EUR681**
- **Available in Cylinder/Thumbturn and Cylinder/Cylinder**

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.

EC3 Cylinder/Thumbturn

EC5 Cylinder/Cylinder

Includes 3 Keys and Screw

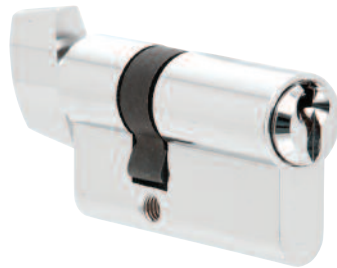
KEYED RANDOMLY CAT. NO.	KEYED ALIKE CAT. NO.	TYPE	FINISH
EC3BR	EC3BRKA	Cylinder/Thumbturn	Polished Brass
EC3BS	EC3BSKA	Cylinder/Thumbturn	Brushed Stainless
EC3PS	EC3PSKA	Cylinder/Thumbturn	Polished Stainless
EC5BR	EC5BRKA	Cylinder/Cylinder	Polished Brass
EC5BS	EC5BSKA	Cylinder/Cylinder	Brushed Stainless
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.

CRL Atlas Series 'All-Glass' Door and Gate Hinge

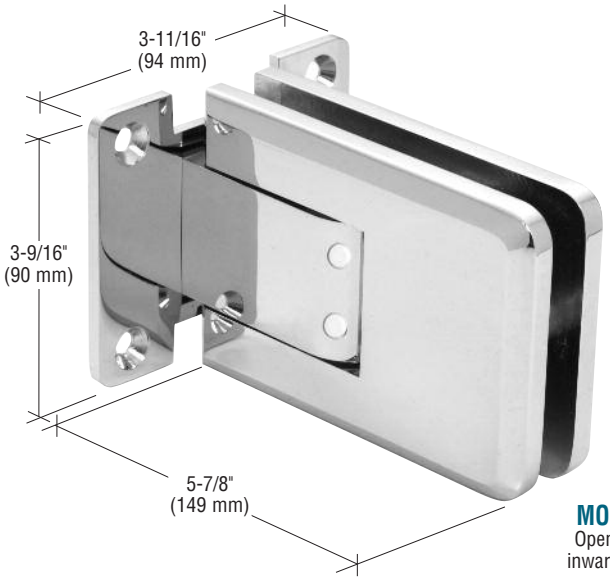
- Automatic Closing Function
- Hold Open at 90 Degrees
- Ideal for Large Interior 5/16", 3/8" or 1/2" (8, 10 or 12 mm) Tempered Glass Doors and Gates
- Easy Closed Position Adjustment for Double Door or Inline Panel Applications
- Four Architectural Finishes

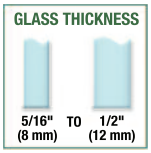
This innovative CRL Atlas Series 'All-Glass' Door and Gate Hinge gives you the best of two worlds; minimal hardware and automatic closing action, all wrapped up in a stylish, heavy-duty Hinge. Two of these double-acting Hinges will allow you to create 'all-glass' doors and gates weighing up to 140 pounds (63.5 kg) with a maximum width of 39" (1 m).

NOTE: Do not exceed two Hinges per door and gate.

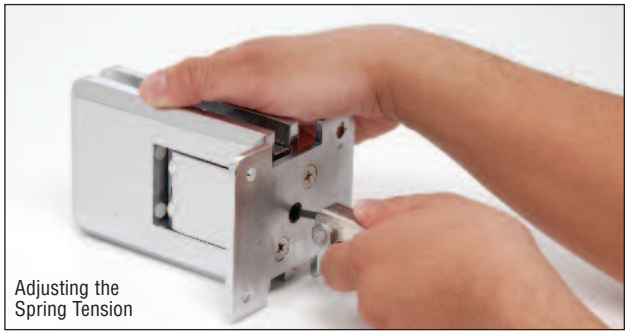
The automatic closing function with adjustable spring strength eliminates the need for any closer mechanism, and will close the door from any position. When fully opened, the Atlas Hinge will hold open at 90 degrees. These Hinges offer easy fine-tune closed position adjustment.

The solid brass construction and stainless steel components make the Atlas Hinge a natural for applications that may involve excess moisture.





MODEL ATL01
Opens 90 degrees
inward and outward


Adjusting the Spring Tension

Adjusting the Closing Position

SPECIFICATIONS:
Glass Thicknesses: 5/16" to 1/2" (8 to 12 mm)
Construction: Solid Brass
Hinge Swings: 90 Degrees Inward and Outward
Closing Type:
Automatic Closing From Any Position and Precise Closing to 0 Degrees
Special Feature: Holds Open at 90 Degrees; Adjustable Closed Position
Notch and Hole Required
Includes: Gaskets, Phillips Screws, and Glass Fabrication Dimensions

*MAXIMUM CAPACITIES	5/16" TO 1/2" (8 TO 12 MM) GLASS WEIGHT	DOOR WIDTH
Using Two Hinges	140 lbs/63.5 kg	39"/1 m

***NOTE:** Do not exceed maximum door weight or width. Do not exceed two hinges per door.

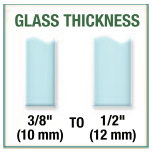
CAT. NO.	DESCRIPTION
ATL01CH	Polished Chrome
ATL01BN	Brushed Nickel
ATL01BR	Polished Brass
ATL010RB	Oil Rubbed Bronze

Minimum order: 1 each. All Frameless Hinges can be combined for quantity pricing. Other finishes available on special order. **NOTE:** 'All-Glass' Door Hinges are sold by the each, not in pairs.

CRL Biloba Series Hydraulic 'All-Glass' Door and Gate Hinges

- **A Great Alternative to Floor Closers**
- **For Self-Closing Glass Doors and Gates From 3/8" to 1/2" (10 to 12 mm) Thick**
- **Hold Open at 90 Degrees**
- **Adjustable Closing Speed**
- **Aluminum Body in Your Choice of Two Finishes: Brite Chrome and Brushed Satin**

new



The new Biloba Hinge represents the evolution and the synthesis between automatic mechanical hinges and hydraulic door closers. Designed for use on interior doors and gates, Biloba allows you to design a self-closing door without the need of a floor-mounted or overhead closing device. This gives you the advantage of being able to install an 'all-glass' door or gate in an existing opening without the need for extensive retrofitting of hardware into the floor or overhead.

Properly mounted, two Biloba Hinges will support a 3/8" to 1/2" (10 to 12 mm) thick glass door or 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. And Biloba is ambidextrous, with positive stops at 0 and 90 degrees, giving you even more design freedom.

The Biloba Hinge features an aluminum body in distinct configurations for Wall Mount and Glass-to-Glass applications. Biloba has been subject to strict testing (over 1 million cycles), assuring long lasting service.

SPECIFICATIONS:
Glass Thickness Range:
3/8" to 1/2" (10 to 12 mm)
Construction: Aluminum
Hinge Swings:
90 Degrees Inward and Outward (Except 31M8060 Model, Which Only Swings One Way)
Closing Type:
Automatic Closing From 0 to 80 Degrees
Special Feature: Holds Open at 90 Degrees; 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:
Door Width 39" (1 m); Door Weight: 220 pounds (100 kg)

NOTE: Do not use more than two hinges on one door or gate.

Full Back Plate Wall Mount Hinge

Swings in and out a full 90 degrees, with stops at 0º, +90º, and -90º. Closing speed can be adjusted. For doors and gates up to 39" (1 m) wide. Maximum weight per two hinges is 220 pounds (100 kg).

CAT. NO.	FINISH
31M8010CH	Brite Chrome
31M8010SN	Brushed Satin

Minimum order: 1 each. All Frameless Hinges can be combined for quantity pricing. **NOTE:** 'All-Glass' Door Hinges are sold by the each, not in pairs.

180 Degree Glass-to-Glass Hinge

Swings in and out a full 90 degrees, with stops at 0º, +90º, and -90º. Closing speed can be adjusted. For doors and gates up to 39" (1 m) wide. Maximum weight per two hinges is 220 pounds (100 kg).

CAT. NO.	FINISH
31M8015CH	Brite Chrome
31M8015SN	Brushed Satin

Minimum order: 1 each. All Frameless Hinges can be combined for quantity pricing. **NOTE:** 'All-Glass' Door Hinges are sold by the each, not in pairs.

One Way Swinging Wall Mount Hinge

Shown Mounted
Hinged Left Swing Out

Ideal for hermetic closing. Swings one way a full 90 degrees, with stops at 0º and 90º. Closing speed can be adjusted. For doors and gates up to 39" (1 m) wide. Maximum weight per two hinges is 220 pounds (100 kg).

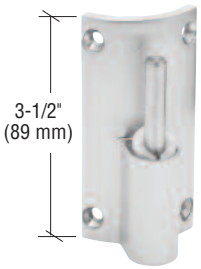
CAT. NO.	FINISH
31M8060CH	Brite Chrome
31M8060SN	Brushed Satin

Minimum order: 1 each. All Frameless Hinges can be combined for quantity pricing. **NOTE:** 'All-Glass' Door Hinges are sold by the each, not in pairs.

CRL Single-Acting Wall-to-Glass Gate Hinge

- **Handed Self-Closing Hinge for Use With 3/8" or 1/2" (10 or 12 mm) Tempered Glass**
- **All 316 Alloy Brushed or Polished Stainless Steel**

Use Only TEMPERED GLASS



CRL Single Acting Wall-to-Glass Gate Hinges are handed and self-closing. They can be screwed to the wall or to a 1.9" (48.3 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.

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

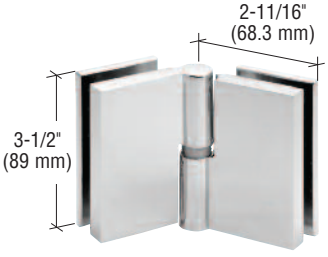
Minimum order: 1 each.

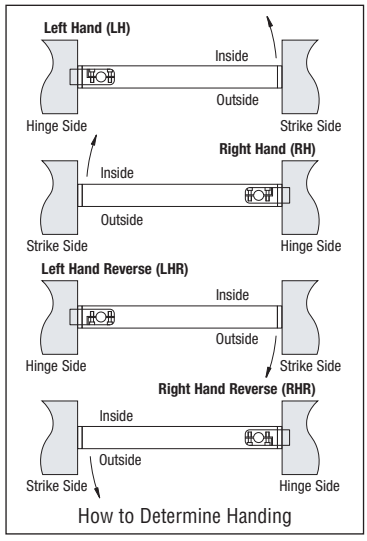
CRL Single-Acting Glass-to-Glass Gate Pivot Patch

- **Handed Self-Closing Hinge for Use With 3/8" or 1/2" (10 or 12 mm) Tempered Glass**
- **All 316 Alloy Brushed or Polished Stainless Steel**

Use Only TEMPERED GLASS

LH/RHR Shown





How to Determine Handing

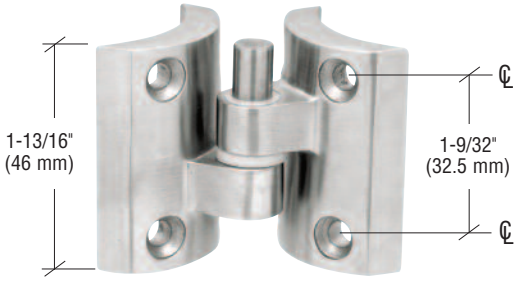
CRL Single Acting Glass-to-Glass Gate Hinges are handed and self-closing. Two 3/4" (19 mm) holes are required for each side of the hinge (two on fixed panel and two on the gate). Maximum width 42" (1067 mm); maximum weight 65 lbs. (29.5 kg). Instructions and cut-out template are included in each box.

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" (48.3 mm) Diameter Tubing**
- **316 Alloy Brushed Stainless Steel**

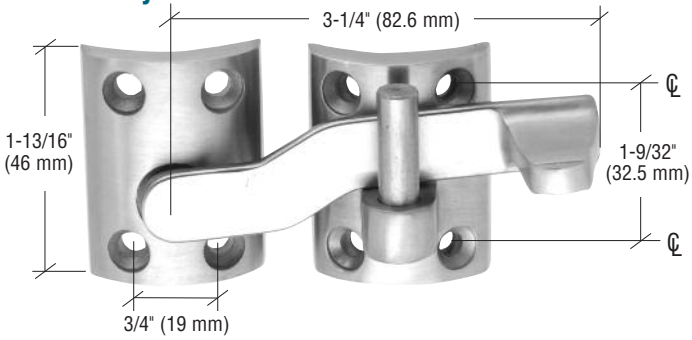


This CRL Tubing Hinge is designed to work with 1.9" (48.3 mm) diameter tubing. The Hinge is free-swinging, and pivots on a nylon bearing. Hinge is secured with supplied screws. Maximum width 42" (1067 mm); maximum weight 65 lbs. (29.5 kg). Minimum order is one each.

CAT. NO. TH12BS

CRL Tubing Latch and Strike

- **Manually Operated Latch Bar for Use With 1.9" (48.3 mm) Diameter Tubing**
- **316 Alloy Brushed Stainless Steel**

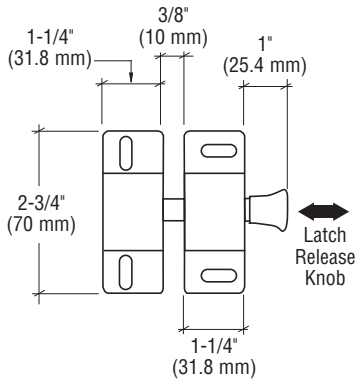


This CRL Tubing Latch and Strike is designed to work with 1.9" (48.3 mm) diameter tubing. Latch has a manually operated pivoting bar, and is secured with supplied screws. Minimum order is one each.

CAT. NO. TL22BS

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

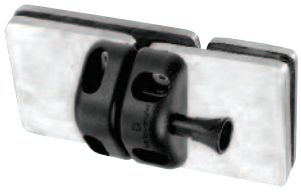


The magnetic, self-latching CRL Magna-Latch is an ideal general-purpose latch for gates around homes and gardens. It's suitable for a wide variety of uses where a non-key lockable latch is needed. When used on picket-style swimming pool gates a compliant acrylic shield must be used to prevent latch access by toddlers. Consult your local building code for more information. For more latch information go to **crlaurence.com**.

CAT. NO.	DESCRIPTION	COLOR
MLSP1	Side Pull Gate Latch	Black

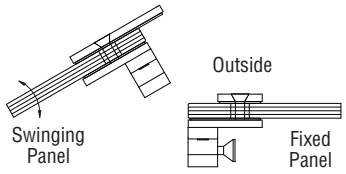
Minimum order: 1 each.

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. For more information go to **crlaurence.com**.

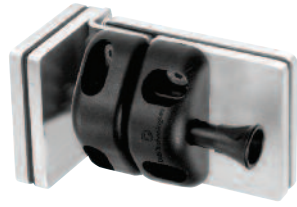


Glass Fabrication is required. Installation instructions and fabrication template included in package.

CAT. NO.	DESCRIPTION	FINISH
MLSP2BS	180 Degree Gate Latch	Brushed Stainless

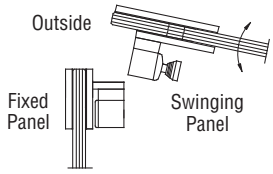
Minimum order: 1 each.

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. For more information go to **crlaurence.com**.



Glass Fabrication is required. Installation instructions and fabrication template included in package.

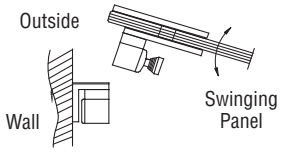
CAT. NO.	DESCRIPTION	FINISH
MLSP3BS	90 Degree Gate Latch	Brushed Stainless

Minimum order: 1 each.

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. For more information go to **crlaurence.com**.

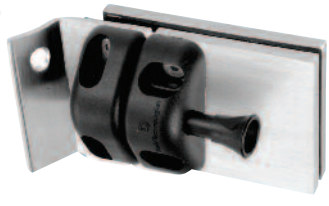


Glass Fabrication is required. Installation instructions and fabrication template included in package.

CAT. NO.	DESCRIPTION	FINISH
MLSP4BS	Wall/Square Post Mount Gate Latch	Brushed Stainless

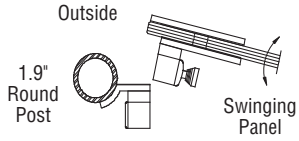
Minimum order: 1 each.

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. For more information go to **crlaurence.com**.



Glass Fabrication is required. Installation instructions and fabrication template included in package.

CAT. NO.	DESCRIPTION	FINISH
MLSP5BS	1.9" Round Post Mount Gate Latch	Brushed Stainless

Minimum order: 1 each.

CRL 180 Degree Glass-to-Glass Hinge

new

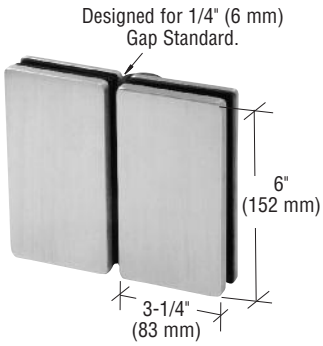
- Self-Closing Black Molded Polymer Heavy-Duty Hinges Designed for Interior and Exterior Use
- For Use With 1/2" (12 mm) Tempered Glass
- 316 Alloy Stainless Steel Mounting Pads
- Tension Adjustable Using Only a Screwdriver

Use Only TEMPERED GLASS

CRL's Single Acting 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 gate widths up to 48" (1219 mm) and heights up to 72" (1829 mm).

CAT. NO.	FINISH
MLSP6BS	Brushed Stainless

Minimum order: 1 each.



Exterior View

Interior View

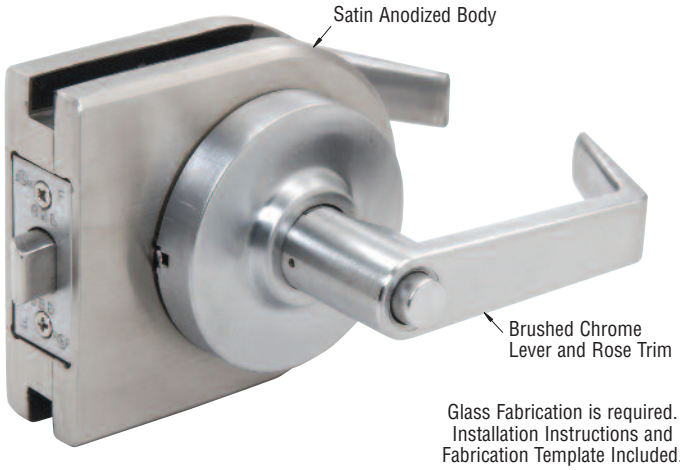
Glass Fabrication is required. Installation Instructions and Fabrication Template Included.

CRL Lever Lock Housing

new

- Low Profile Body Design for Use With 1/2" (12 mm) Glass
- Supplied With ANSI A156.2 Grade 1 Lever Lock
- Non-Handed and Reversible
- Solid Aluminum Body With Brushed Chrome Lever
- Four Function Options

Use Only TEMPERED GLASS

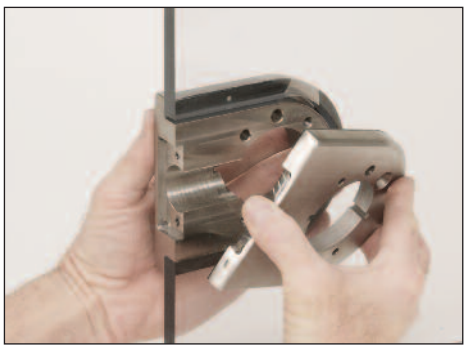


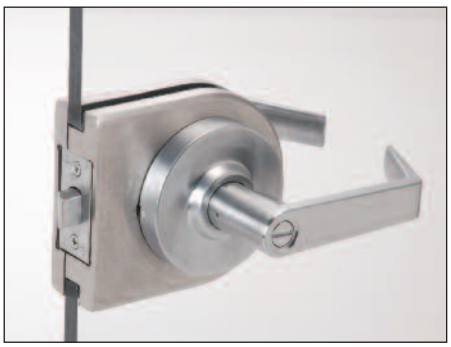
Glass Fabrication is required. Installation Instructions and Fabrication Template Included.

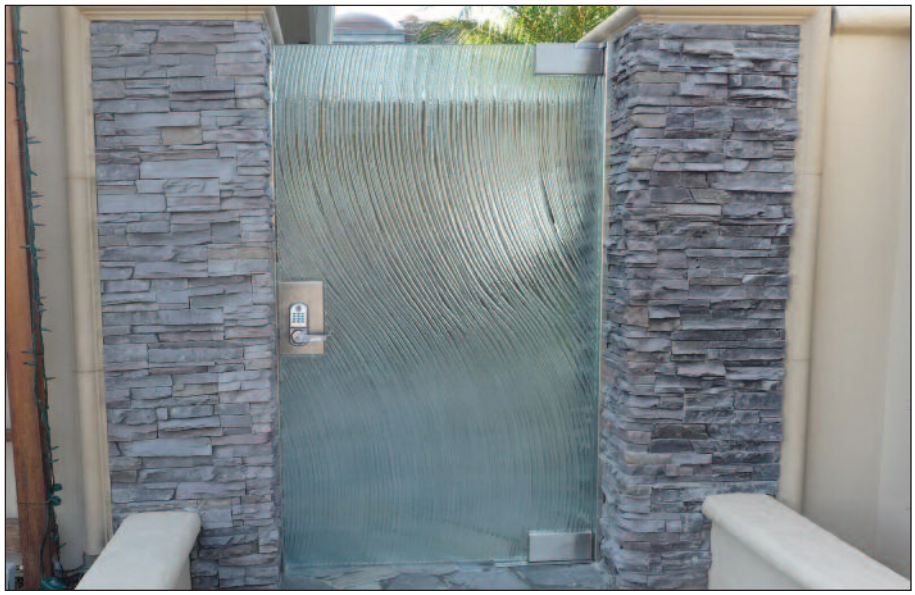
CRL's new pedestrian Lever Lock Housing is easy to install and shipped complete with lock and housing for 1/2" (12 mm) thick glass. The entrance and storeroom models come standard with a Schlage C 6-pin keyway. A 1-1/4" x 4-7/8" (31.8 mm x 124 mm) strike is included.

CAT. NO.	FUNCTION	FINISH
LLH1PSS	Passage	Satin Anodized
LLH1PRV	Privacy	Satin Anodized
LLH1ENT	Entrance	Satin Anodized
LLH1STR	Storeroom	Satin Anodized

Minimum order: 1 each.







CRL 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**
- **Several Post Mounting Options Available**
- **Polished or Brushed Stainless Steel Finishes Available From Stock**

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 new CRS Component Railing System.

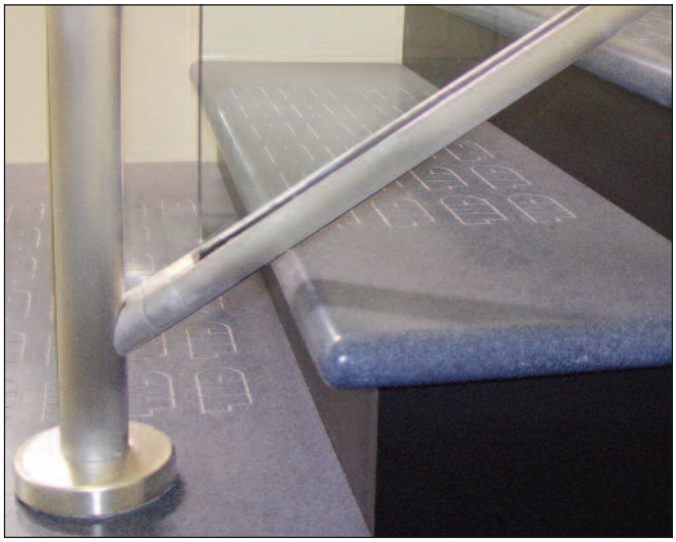
It combines the strength of 1-1/2" (38.1 mm) Schedule 40 Stainless Steel Posts and a complete selection of CRS Adapter Fittings with our popular Cap Rails and Components to create an easy to assemble and install railing system. Glass Infill Panels are secured without Glass Clamps, and their bottom edges are protected with 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. 32629 Metal Contact Cement (see page B337). You can then bond any of our 2" (50.8 mm) or larger diameter 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" (38.1 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 following pages) 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 then 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.

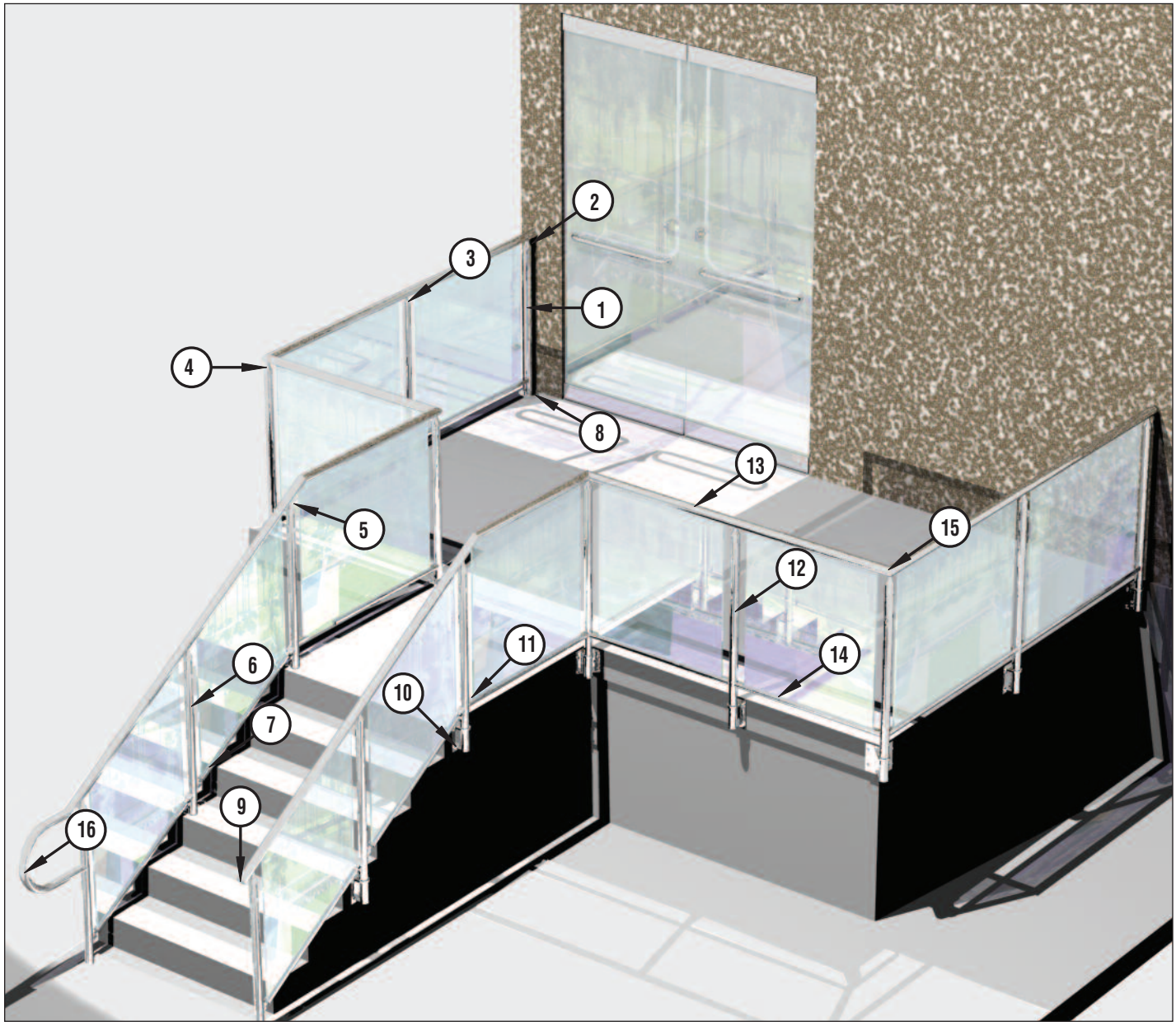
The CRL Component Railing System is Patent Pending



See pages B407 to B415 for our Aluminum Component Railing System

Typical CRS Post Railing Installation

The CRL Component Railing System is Patent Pending



CRS POST RAILING COMPONENTS USED IN THE TYPICAL INSTALLATION SHOWN ABOVE

(1)	**CR36EKBS**	- Page B239	(9)	**CR20ECBS**	- Page B247
(2)	**CR15TAEBS**	- Page B244	(10)	**CR15FBBS**	- Page B249
(3)	**CR15TA180BS**	- Page B244	(11)	**CR15BABS**	- Page B247
(4)	**CR15TA90BS**	- Page B245	(12)	**PR15BS10**	- Page B242
(5)	**CR15TAABS**	- Page B246	(13)	**GR20BS**	- Page B241
(6)	**CR42CKBS**	- Page B239	(14)	**GR15BS**	- Page B242
(7)	**CR15BALSBS**	- Page B248	(15)	**GR20HBS**	- Page B184
(8)	**CR15LPCBS**	- Page B238	(16)	**CR1ADABS**	- Page B243

All are available in both Brushed and Polished Stainless finishes.

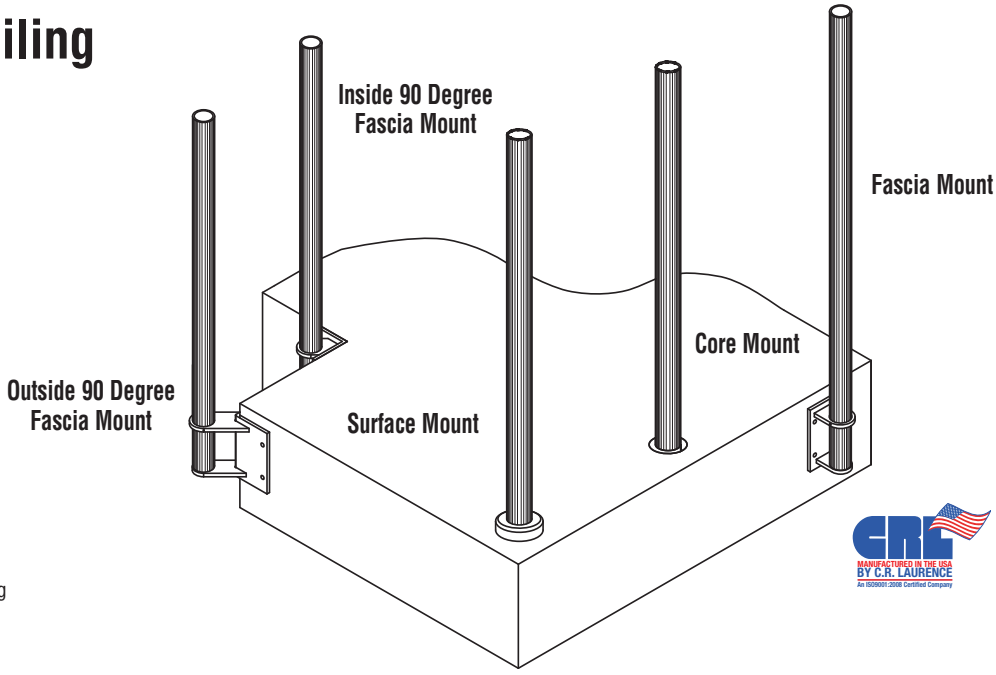
Railing Systems Technical Assistance

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 e-mail from the **crlaurence.com** home page. Click on Contact Us, and then click on Technical Sales for Railing Products.

CRL CRS POST RAILING SYSTEM

Typical CRS Post Railing Mounting Options

- Posts for Surface, Core, Stair, Ramp, and Fascia Mount Applications Available
- Ready to Install
- Made From Alloy 304 Stainless Steel
- Custom Fabricated to Meet Your Requirements



The CRL Component Railing System is Patent Pending

CRL CRS Low Profile Cover

- Available in Brushed or Polished 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.	DIAMETER	FINISH
CR15LPCBS	4-3/8" (111.1 mm)	Brushed Stainless
CR15LPCPS	4-3/8" (111.1 mm)	Polished Stainless

Minimum order: 1 each.

CRL CRS Stainless Steel Post Kits

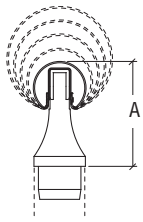
- **Post Kits Designed for Interior or Exterior Hand Rail and Guard Rail Applications**
- **Designed and Engineered to Meet or Exceed Building Code Requirements**
- **Low Maintenance 304 Grade Stainless Steel Alloy Posts Ready to Install**
- **Two Standard Stainless Steel Finishes**
- **Standard 36" and 42" Tall Post Kits Available From Stock; Custom Height Post Kits are Also Available**

new

End Post Kit | 180 Degree Center Post Kit | 90 Degree Corner Post Kit | 135 Degree Angle Post Kit

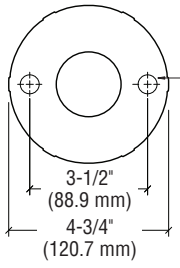
CRL's CRS Surface Mounted Post Kits are manufactured from Schedule 40 1.9" (48.2 mm) diameter Stainless Steel Tubing, and are designed for guard rail or hand rail applications. Kits are supplied complete with a Welded Base Plate, Base Cover Flange, Top Rail Adapter, and Bottom Rail Adapter.

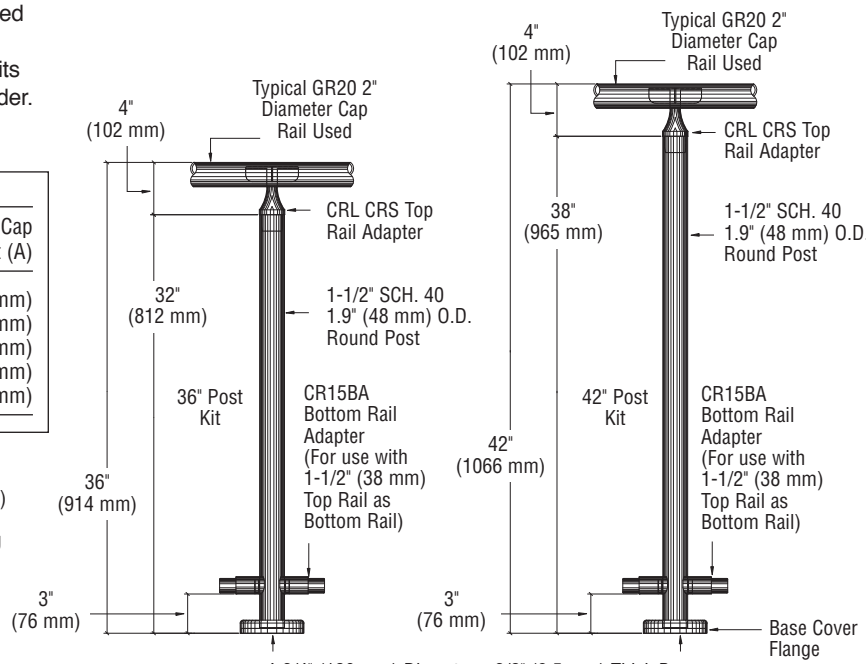
Standard CRS 36" and 42" Tall Post Kits are designed for use with 2" (50.8 mm) diameter top rails and 1-1/2" (38.1 mm) diameter bottom rails. Custom Size Post Kits and other top cap rail sizes are available on special order. Contact Technical Sales for more information.



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)





4-3/4" (120 mm) Diameter x 3/8" (9.5 mm) Thick Base Flange with Cover Concrete/Steel Mounting Standard

END POST KITS

36" HEIGHT CAT. NO.	42" HEIGHT CAT. NO.	FINISH
CR36EKBS	CR42EKBS	Brushed Stainless
CR36EKPS	CR42EKPS	Polished Stainles

Minimum order: 1 each.

180 DEGREE CENTER POST KITS

36" HEIGHT CAT. NO.	42" HEIGHT CAT. NO.	FINISH
CR36CKBS	CR42CKBS	Brushed Stainless
CR36CKPS	CR42CKPS	Polished Stainles

Minimum order: 1 each.

90 DEGREE CORNER POST KITS

36" HEIGHT CAT. NO.	42" HEIGHT CAT. NO.	FINISH
CR36LKBS	CR42LKBS	Brushed Stainless
CR36LKPS	CR42LKPS	Polished Stainles

Minimum order: 1 each.

135 DEGREE ANGLE POST KITS

36" HEIGHT CAT. NO.	42" HEIGHT CAT. NO.	FINISH
CR36AKBS	CR42AKBS	Brushed Stainless
CR36AKPS	CR42AKPS	Polished Stainles

Minimum order: 1 each.

2" DIAMETER TOP CAP RAILS

See Page B241

1-1/2" DIAMETER BOTTOM RAIL

See Page B242

VINYL INSERTS

Top Insert | Bottom Insert

See Page B243

CRL Premium Cap Rails for 1/2" (12 mm) or 5/8" (16 mm) Glass

- **Bump-Formed and Welded 120" (3.05 m) and 168" (4.27 m) Stock Lengths**
- **Diameters From 1.66" (42.2 mm) to 4" (101.6 mm)**
- **Connect to a Variety of Fabricated Corners and End Caps**
- **Cut to Size or Custom Fabricated Lengths Also Available**
- **Brushed and Polished Stainless Alloy 304 is Standard; 316 Alloy Available on Special Order**

CRL's Premium Cap Rails are manufactured using a unique process known as Bump-Forming that ensures accuracy, consistency, and high quality for our customers. Unlike Roll-Formed Cap Rails, 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 radius, 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 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. 32629 Metal Contact Cement (see page B337) is required to achieve a secure and permanent bond at all connections. Use Connector Sleeves shown on page B188 to connect Cap Rails. When used with 1/2" (12 mm) glass, Cat. No. GR5PV Cap Rail Vinyl (see page B199) and 95CBL Silicone should be used to secure the glass. When used with 5/8" (16 mm) glass, secure with 95CBL Silicone Sealant (see page B154) and Shims only. Please contact CRL Railing Technical Sales for more information or for a quote.

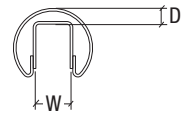
MANUFACTURED IN THE USA BY C.R. LAURENCE
An ISO9001:2008 Certified Company

CRL Premium CRS Cap Rails for 1/2" (12 mm) or 5/8" (16 mm) Glass

1.66" (42.2 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)	FINISH	"W" WIDTH	"D" DEPTH*	THICKNESS	USE SLEEVE NO.
GR16BS	GR16BS14	Brushed Stainless	3/4" (19 mm)	1/4" (6.4 mm)	.0625" (1.59 mm)	GR16CSS
GR16PS	GR16PS14	Polished Stainless	3/4" (19 mm)	1/4" (6.4 mm)	.0625" (1.59 mm)	GR16CSS

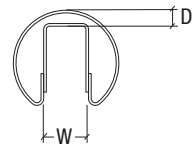
Minimum order: 1 each. Sizes and finishes can be combined for quantity pricing. Must ship common carrier.



2" (50.8 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)	FINISH	"W" WIDTH	"D" DEPTH*	THICKNESS	USE SLEEVE NO.
GR20BS	GR20BS14	Brushed Stainless	3/4" (19 mm)	3/8" (9.5 mm)	.050" (1.27 mm)	GR20CSS
GR20PS	GR20PS14	Polished Stainless	3/4" (19 mm)	3/8" (9.5 mm)	.050" (1.27 mm)	GR20CSS

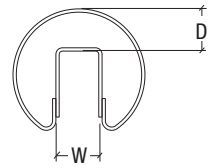
Minimum order: 1 each. Sizes and finishes can be combined for quantity pricing. Must ship common carrier.



2-1/2" (63.5 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)	FINISH	"W" WIDTH	"D" DEPTH*	THICKNESS	USE SLEEVE NO.
GR25BS	GR25BS14	Brushed Stainless	3/4" (19 mm)	7/8" (22.2 mm)	.0625" (1.59 mm)	GR25CSS
GR25PS	GR25PS14	Polished Stainless	3/4" (19 mm)	7/8" (22.2 mm)	.0625" (1.59 mm)	GR25CSS

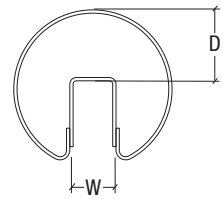
Minimum order: 1 each. Sizes and finishes can be combined for quantity pricing. Must ship common carrier.



3" (76.2 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)	FINISH	"W" WIDTH	"D" DEPTH*	THICKNESS	USE SLEEVE NO.
GR30BS	GR30BS14	Brushed Stainless	3/4" (19 mm)	1-3/8" (34.9 mm)	.0625" (1.59 mm)	GR30CSS
GR30PS	GR30PS14	Polished Stainless	3/4" (19 mm)	1-3/8" (34.9 mm)	.0625" (1.59 mm)	GR30CSS

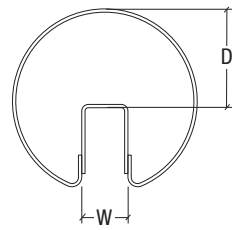
Minimum order: 1 each. Sizes and finishes can be combined for quantity pricing. Must ship common carrier.



3-1/2" (88.9 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)	FINISH	"W" WIDTH	"D" DEPTH*	THICKNESS	USE SLEEVE NO.
GR35BS	GR35BS14	Brushed Stainless	3/4" (19 mm)	1-7/8" (47.6 mm)	.0625" (1.59 mm)	GR35CSS
GR35PS	GR35PS14	Polished Stainless	3/4" (19 mm)	1-7/8" (47.6 mm)	.0625" (1.59 mm)	GR35CSS

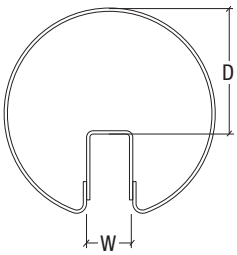
Minimum order: 1 each. Sizes and finishes can be combined for quantity pricing. Must ship common carrier.



4" (101.6 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)	FINISH	"W" WIDTH	"D" DEPTH*	THICKNESS	USE SLEEVE NO.
GR40BS	GR40BS14	Brushed Stainless	3/4" (19 mm)	2-3/8" (60.3 mm)	.0625" (1.59 mm)	GR40CSS
GR40PS	GR40PS14	Polished Stainless	3/4" (19 mm)	2-3/8" (60.3 mm)	.0625" (1.59 mm)	GR40CSS

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 you desire or allow an additional 1/8" (3.2 mm) if using Cap Rail Vinyl (see page B199).



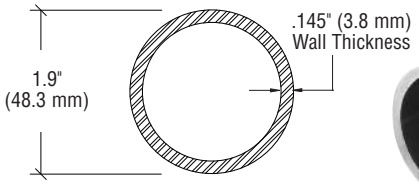
CRL CRS POST RAILING SYSTEM

CRS Component Railing System at Stair Location

CRS Component Railing System at Ramp Location

CRL 1-1/2" Schedule 40 CRS Post Rail Tubing

- **Designed for Post Sections at Guard Rails, Stairways, and Handicap Ramp Areas**
- **1.9" (48.3 mm) Outside Diameter**
- **Available in Polished or Brushed Stainless Steel, Mill, or Powder Coated Aluminum**
- **Available in Stock Lengths and Custom Fabricated to Your Specifications**



For Stock 36" and 42"
(914 and 1067 mm)
Posts see page B239.

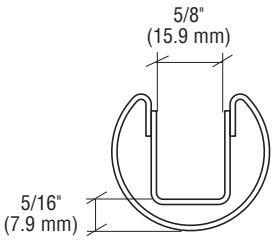
CAT. NO.	FINISH	WALL THICKNESS	LENGTH
PR15BS10	Brushed Stainless	.145" (3.8 mm)	120" (3.05 m)
PR15BS20	Brushed Stainless	.145" (3.8 mm)	240" (6.10 m)
PR15PS10	Polished Stainless	.145" (3.8 mm)	120" (3.05 m)
PR15PS20	Polished Stainless	.145" (3.8 mm)	240" (6.10 m)
HR19M	Mill Finish Aluminum	.145" (3.8 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 B238 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 allowing for smooth hairline transitions at splice and Top Rail Adapter locations. Use of our Cat. No. 32629 Metal Contact Cement (see page B337) is required to achieve a secure and permanent bond at all connections.

CRL 1-1/2" CRS Bottom Rail

- **Provides Bottom Support for 3/8" or 1/2" (10 or 12 mm) Tempered Glass in CRS Post Railing System**
- **1.5" (38.1 mm) Outside Diameter**
- **Works With CR3PVB or CR5PVB Rail Vinyls**
- **Polished or Brushed Stainless Steel Finishes**
- **Available in Stock Lengths and Custom Fabricated to Your Specifications**



CAT. NO.	FINISH	WALL THICKNESS	LENGTH
GR15BS	Brushed Stainless	.050" (1.27 mm)	120" (3.05 m)
GR15PS	Polished Stainless	.050" (1.27 mm)	120" (3.05 m)
GR15BS14	Brushed Stainless	.050" (1.27 mm)	168" (4.27 m)
GR15PS14	Polished Stainless	.050" (1.27 mm)	168" (4.27 m)

Minimum order: 1 each. 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. Unlike roll-formed rails, Bump-Formed 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 rail. For connection to posts use Rail Adapters (see pages B247 to B248).

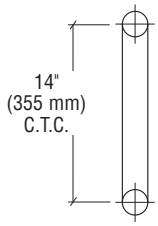
CRL CRS Cap Rail Return

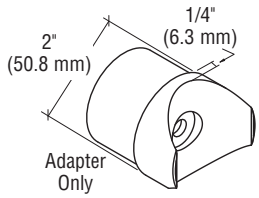
The CRL Component Railing System is Patent Pending

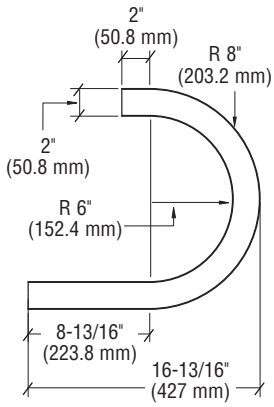
- **A.D.A. Compliant and Ready to Install**
- **Made From Alloy 316 Stainless Steel in Brushed or Polished Finishes**
- **Custom Returns Available on Request**

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 B188) and a GR20L Lower Incline Corner (see page B205) to attach the top of the Return to the GR20 Series 2" (50.8 mm) diameter Cap Rail. Our Cat. No. 32629 Metal Contact Cement (see page B337) should be used to securely bond the Connector Sleeve and Post Adapter.

Post Adapter Included





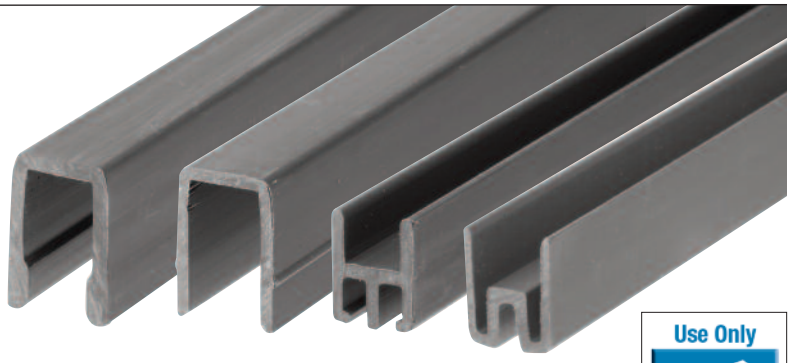


RETURN WITH POST ADAPTER CAT. NO.	POST ADAPTER ONLY CAT. NO.	FINISH
CR1ADABS	CR2ADABS	Brushed Stainless
CR1ADAPS	CR2ADAPS	Polished Stainless

Minimum order: 1 each. All Cap Rail Returns can be combined for quantity pricing.

CRL CRS Cap Rail Vinyl

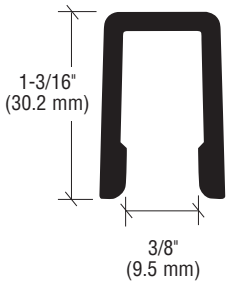
- **Rigid Black Vinyl Provides Protective Barrier Between Metal Cap Rail and Glass**
- **Sizes for 3/8" (10 mm) and 1/2" (12 mm) Tempered Glass**
- **Intended for Use in CRS Systems Only**



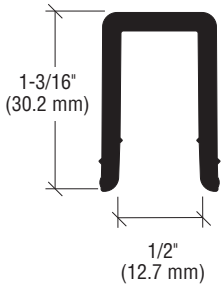
Use Only TEMPERED GLASS

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 B154) to secure the Vinyl inside the pocket of the Cap Rail and also to the glass.

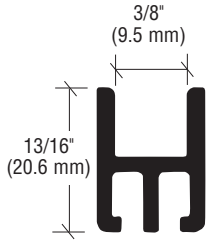
CAT. NO. CR3PVT



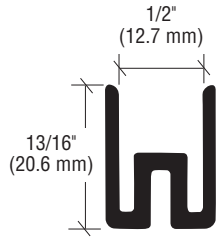
CAT. NO. CR5PVT



CAT. NO. CR3PVB



CAT. NO. CR5PVB

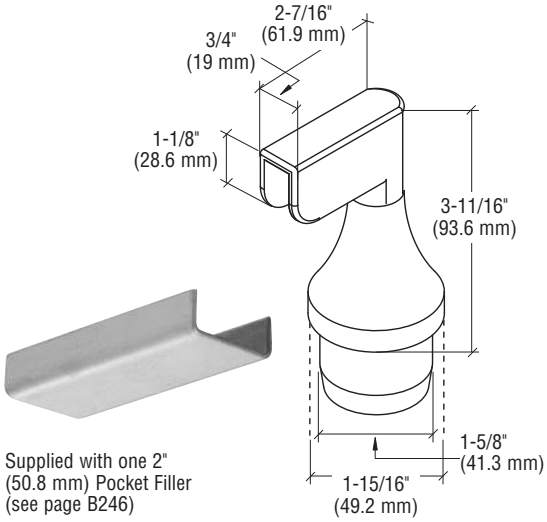


CAT. NO.	DESCRIPTION	FITS	FOR USE WITH	LENGTH
CR3PVT*	Cap Rail Vinyl Used in CRS Top Rail Only	GR16, GR20, GR25, GR30, GR35, and GR40 Cap Rail	3/8" (10 mm) Glass	120" (3.05 m)
CR5PVT*	Cap Rail Vinyl Used in CRS Top Rail Only	GR16, GR20, GR25, GR30, GR35, and GR40 Cap Rail	1/2" (12 mm) Glass	120" (3.05 m)
CR3PVB*	Cap Rail Vinyl Used in CRS Bottom Rail Only	GR15 Series Cap Rail	3/8" (10 mm) Glass	120" (3.05 m)
CR5PVB*	Cap Rail Vinyl Used in CRS Bottom Rail Only	GR15 Series Cap 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 Top Rail Adapter for End Posts

The CRL Component Railing System is Patent Pending



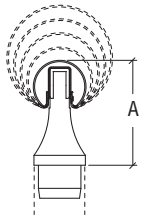
- Provides Easy Attachment of Cap Rails to Vertical Posts
- Ready to Install
- Can Be Customized to Meet Specific Needs
- Made From Alloy 316 Stainless Steel
- Available in Brushed or Polished Stainless Steel

CRL Top Rail Adapters easily slip into 1-1/2" (38.1 mm) Schedule 40 Stainless Steel Posts to provide for attachment of 1.66" to 4" (42.2 to 101.6 mm) diameter Cap Railing. They can be modified to meet specific needs. Use of our Cat. No. 32629 Metal Contact Cement (see page B337) is required to achieve a secure and permanent bond.

Supplied with one 2" (50.8 mm) Pocket Filler (see page B246)

CAT. NO.	FINISH
CR15TAEBS	Brushed Stainless
CR15TAEPS	Polished Stainless

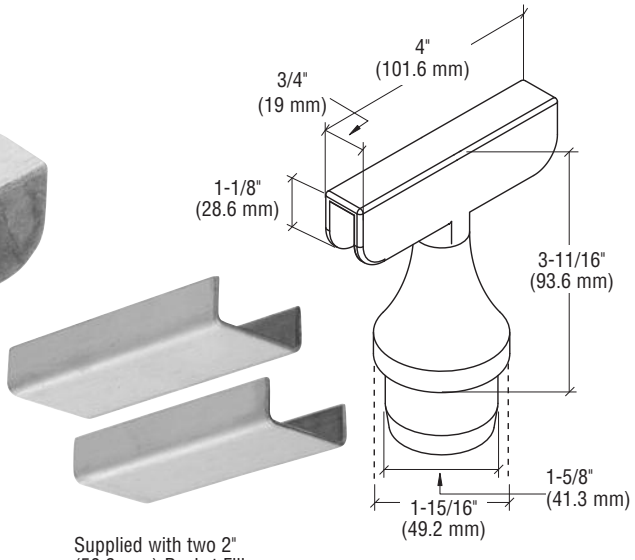
Minimum order: 1 each. All Top Rail Adapters can be combined for quantity pricing.



POST HEIGHT DEDUCTION

Cap Rail Diameter	Height from Top of Cap Rail to Top of Post (A)
1.66" (42.2 mm)	3-7/8" (98.4 mm)
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



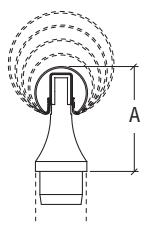
- Provides Easy Attachment of Cap Rails to Vertical Posts
- Ready to Install
- Can Be Customized to Meet Specific Needs
- Made From Alloy 316 Stainless Steel
- Available in Brushed or Polished Stainless Steel

CRL Top Rail Adapters easily slip into 1-1/2" (38.1 mm) Schedule 40 Stainless Steel Posts to provide for attachment of 1.66" to 4" (42.2 to 101.6 mm) diameter Cap Railing. They can be modified to meet specific needs. Use our Cat. No. 32629 Metal Contact Cement (see page B337) to achieve a secure and permanent bond.

Supplied with two 2" (50.8 mm) Pocket Fillers (see page B246)

CAT. NO.	FINISH
CR15TA180BS	Brushed Stainless
CR15TA180PS	Polished Stainless

Minimum order: 1 each. All Top Rail Adapters can be combined for quantity pricing.



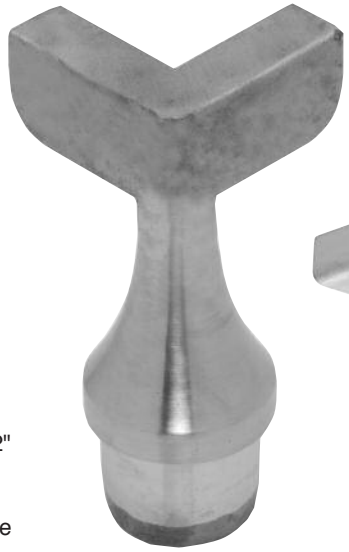
POST HEIGHT DEDUCTION

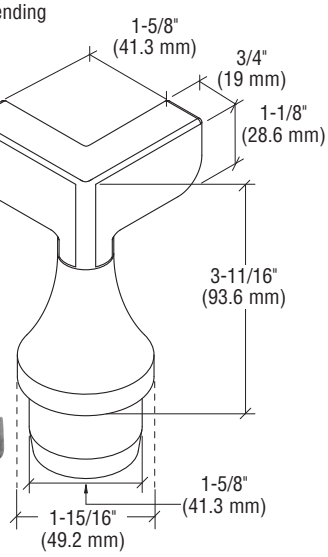
Cap Rail Diameter	Height from Top of Cap Rail to Top of Post (A)
1.66" (42.2 mm)	3-7/8" (98.4 mm)
2" (51 mm)	4" (102 mm)
2-1/2" (64 mm)	4-1/2" (114 mm)
3" (76 mm)	5" (127 mm)
3-1/2" (89 mm)	5-9/16" (141 mm)
4" (102 mm)	6-1/16" (154 mm)

CRL CRS Top Rail Adapter for 90 Degree Corner Posts

The CRL Component Railing System is Patent Pending

- Provides Easy Attachment of Cap Rails to Vertical Posts
- Ready to Install
- Can Be Customized to Meet Specific Needs
- Made From Alloy 316 Stainless Steel
- Available in Brushed or Polished Stainless Steel



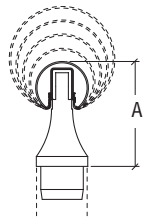


Supplied with two 2" (50.8 mm) Pocket Fillers (see page B246)

CRS Top Rail Adapters easily slip into 1-1/2" (38.1 mm) Schedule 40 Stainless Steel Posts to provide for attachment of 2" to 4" (50.8 to 101.6 mm) diameter Cap Railing. They can be modified to meet specific needs. Use our Cat. No. 32629 Metal Contact Cement (see page B337) to achieve a secure and permanent bond.

CAT. NO.	FINISH
CR15TA90BS	Brushed Stainless
CR15TA90PS	Polished Stainless

Minimum order: 1 each. All Top Rail Adapters can be combined for quantity pricing.

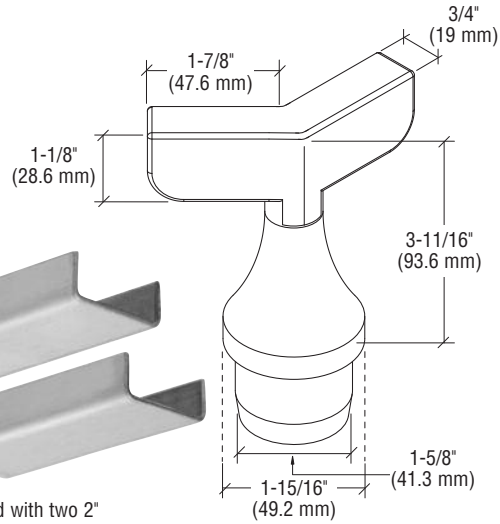


POST HEIGHT DEDUCTION

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
- Ready to Install
- Can Be Customized to Meet Specific Needs
- Made From Alloy 316 Stainless Steel
- Available in Brushed or Polished Stainless Steel

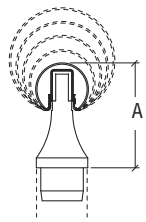


Supplied with two 2" (50.8 mm) Pocket Fillers (see page B246)

CRS Top Rail Adapters easily slip into 1-1/2" (38.1 mm) Schedule 40 Stainless Steel Posts to provide for attachment of 2" to 4" (50.8 to 101.6 mm) diameter Cap Railing. They can be modified to meet specific needs. Use our Cat. No. 32629 Metal Contact Cement (see page B337) to achieve a secure and permanent bond.

CAT. NO.	FINISH
CR15TA135BS	Brushed Stainless
CR15TA135PS	Polished Stainless

Minimum order: 1 each. All Top Rail Adapters can be combined for quantity pricing.

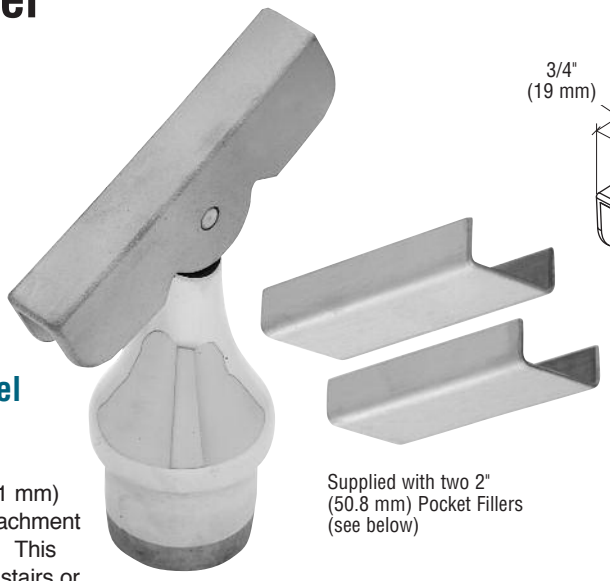


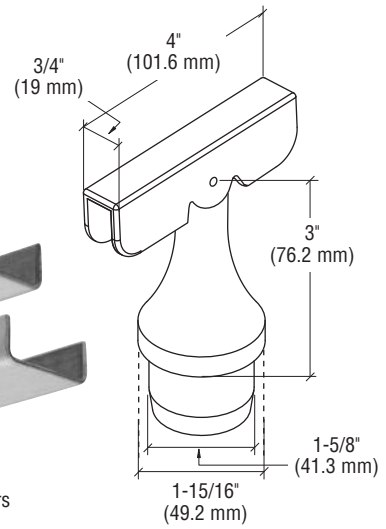
POST HEIGHT DEDUCTION

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 With Adjustable Top

The CRL Component Railing System is Patent Pending





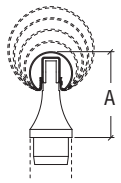
Supplied with two 2" (50.8 mm) Pocket Fillers (see below)

- **Adjustable Angle for Use on Any Stair or Ramp**
- **Provides Easy Attachment of Cap Rails to Vertical Posts**
- **Available in Brushed or Polished Stainless Steel**
- **Made From Alloy 316 Stainless Steel**
- **Ready to Install**

CRS Top Rail Adapters easily slip into 1-1/2" (38.1 mm) Schedule 40 Stainless Steel Posts to provide for attachment of 2" to 4" (50.8 to 101.6 mm) diameter Cap Railing. This Adapter can be adjusted to match the slope of your stairs or ramp. Use our Cat. No. 32629 Metal Contact Cement (see page B337) to achieve a secure and permanent bond.

CAT. NO.	FINISH
CR15TAABS	Brushed Stainless
CR15TAAPS	Polished Stainless

Minimum order: 1 each. All Top Rail Adapters can be combined for quantity pricing.

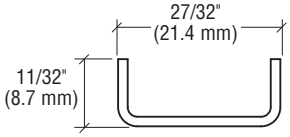


POST HEIGHT DEDUCTION

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 Pocket Filler Channel

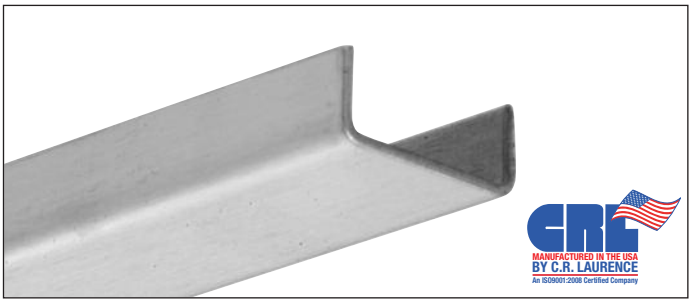
- **Adds Finished Look**
- **Available in Brushed or Polished Stainless Steel**



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" (50.8 mm) gaps between the glass and the post. We stock 2" (50.8 mm) replacement Filler Channels and 60" (1524 mm) stock lengths that you can cut for custom glass spacing. Use of our Cat. No. 32629 Metal Contact Cement (see page B337) is required to achieve a secure and permanent bond.

CAT. NO.	FINISH	LENGTH
CRFBS2	Brushed Stainless	2" (50.8 mm)
CRFPS2	Polished Stainless	2" (50.8 mm)
CRFBS60	Brushed Stainless	60" (1524 mm)
CRFPS60	Polished Stainless	60" (1524 mm)

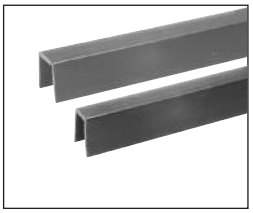
Minimum order: 1 each. All Pocket Filler Channels can be combined for quantity pricing.



Cap Rails

See pages B240 to B241

Vinyl

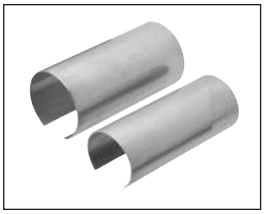


See page B243

Corners

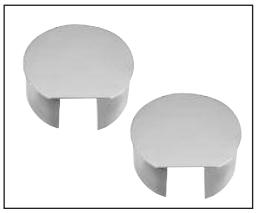
See pages B184, B186, B206

Connector Sleeves



See page B188

End Caps



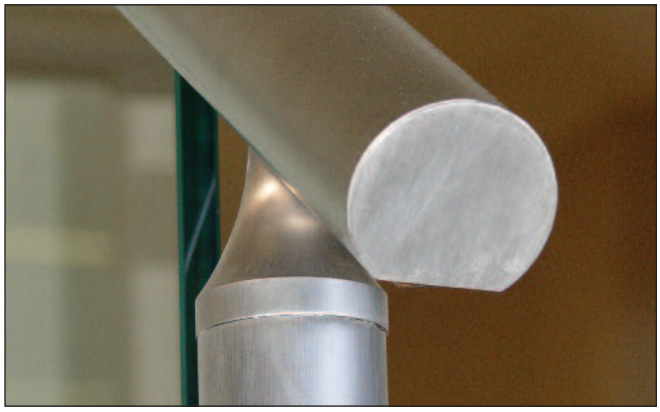
See page B247

CRL CRS Top Rail End Caps

The CRL Component Railing System is Patent Pending

- Available in Five Diameters
- Ready to Install
- Available in Brushed or Polished Stainless Steel

CRS Top Rail End Caps are manufactured with a flat bottom to closely match the diameters of our 2" to 4" (50.8 to 101.6 mm) Premium Cap Rails. Use our Cat. No. 32629 Metal Contact Cement (see page B337) to achieve a secure and permanent bond.



CAT. NO.	CAP RAIL DIAMETER	FINISH	FITS CAP RAIL NO.
CR16ECBS	1.66" (42.2 mm)	Brushed Stainless	GR16BS/GR16BS14
CR16ECPS	1.66" (42.2 mm)	Polished Stainless	GR16PS/GR16PS14
CR20ECBS	2" (50.8 mm)	Brushed Stainless	GR20BS/GR20BS14
CR20ECPS	2" (50.8 mm)	Polished Stainless	GR20PS/GR20PS14
CR25ECBS	2-1/2" (63.5 mm)	Brushed Stainless	GR25BS/GR25BS14
CR25ECPS	2-1/2" (63.5 mm)	Polished Stainless	GR25PS/GR25PS14
CR30ECBS	3" (76.2 mm)	Brushed Stainless	GR30BS/GR30BS14
CR30ECPS	3" (76.2 mm)	Polished Stainless	GR30PS/GR30PS14
CR35ECBS	3-1/2" (88.9 mm)	Brushed Stainless	GR35BS/GR35BS14
CR35ECPS	3-1/2" (88.9 mm)	Polished Stainless	GR35PS/GR35PS14
CR40ECBS	4" (101.6 mm)	Brushed Stainless	GR40BS/GR40BS14
CR40ECPS	4" (101.6 mm)	Polished Stainless	GR40PS/GR40PS14

Minimum order: 1 each. All Post and Rail Caps can be combined for quantity pricing.

CRL CRS Rail Adapter for Level Bottom Rails

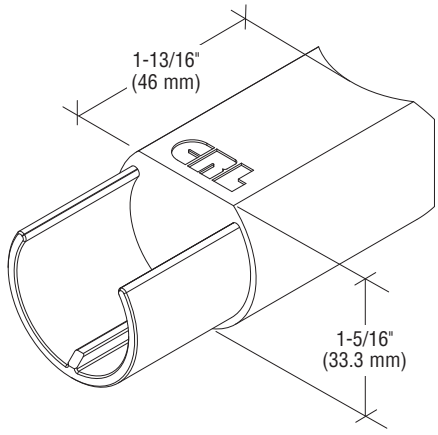
- Provides Easy Attachment of Level Bottom Rail to Vertical Posts
- Ready to Install
- Made From Alloy 316 Stainless Steel
- Available in Brushed or Polished Stainless Steel

CRS Rail Adapters for Bottom Rails easily attach to 1-1/2" (38.1 mm) Schedule 40 Stainless Steel Posts to provide for attachment of 1-1/2" (38.1 mm) Diameter Cap Railing when used as the Bottom Rail of the CRS System. Unlike the Top Rail, only the 1-1/2" (38.1 mm) 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. 32629 Metal Contact Cement (see page B337) to achieve a secure and permanent bond.

CAT. NO.	FINISH
CR15BABS	Brushed Stainless
CR15BAPS	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



The CRL Component Railing System is Patent Pending

CRL CRS Adjustable Upper Adapter for Sloped Bottom Rails

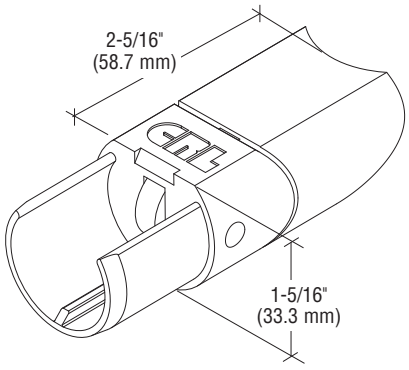
- Provides Easy Attachment of Sloped Bottom Rails to Vertical Posts
- Adjustable Angle for Use on Any Stair or Ramp
- Ready to Install
- Made From Alloy 316 Stainless Steel
- Available in Brushed or Polished Stainless Steel

CRS Adjustable Upper Adapters for Sloped Bottom Rails easily attach to 1-1/2" (38.1 mm) Schedule 40 Stainless Steel Posts to provide for attachment of 1-1/2" (38.1 mm) Diameter Cap Railing when used as the Bottom Rail of the CRS System. Unlike the Top Rail, only the 1-1/2" (38.1 mm) 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. 32629 Metal Contact Cement (see page B337) to achieve a secure and permanent bond.

CAT. NO.	USE ON	FINISH
CR15BAURBS	Ramps	Brushed Stainless
CR15BAURPS	Ramps	Polished Stainless
CR15BAUSBS	Stairs	Brushed Stainless
CR15BAUSPS	Stairs	Polished Stainless

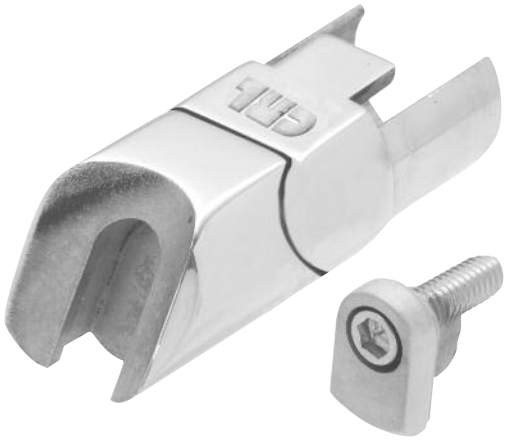
Minimum order: 1 each. All Bottom Rail Adapters can be combined for quantity pricing.

Field measure to next Rail Adapter for accurate cut length on Bottom Rail



CRL CRS Adjustable Lower Adapter for Sloped Bottom Rails

- Provides Easy Attachment of Sloped Bottom Rails to Vertical Posts
- Adjustable Angle for Use on Any Stair or Ramp
- Ready to Install
- Made From Alloy 316 Stainless Steel
- Available in Brushed or Polished Stainless Steel

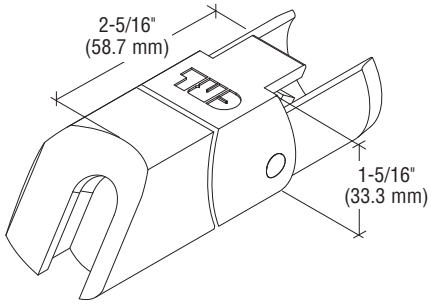


CRS Adjustable Lower Adapters for Sloped Bottom Rails easily attach to 1-1/2" (38.1 mm) Schedule 40 Stainless Steel Posts to provide for attachment of 1-1/2" (38.1 mm) Diameter Cap Railing when used as the Bottom Rail of the CRS System. Unlike the Top Rail, only the 1-1/2" (38.1 mm) size can be used as the Bottom Rail. Comes with Rail Connecting Block and 5/16-18 Socket Head Cap Screw. Use our Cat. No. 32629 Metal Contact Cement (see page B337) to achieve a secure and permanent bond.

CAT. NO.	USE ON	FINISH
CR15BALRBS	Ramps	Brushed Stainless
CR15BALRPS	Ramps	Polished Stainless
CR15BALSBS	Stairs	Brushed Stainless
CR15BALSPS	Stairs	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

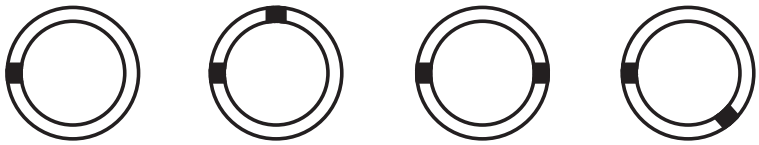


CRL CRS POST RAILING SYSTEM

CRL CRS Custom Fascia Mount Posts

The CRL Component Railing System is Patent Pending

- **Available in Brushed or Polished Stainless Steel**
- **Custom Fabricated to Meet Your Requirements**



End | Corner | Center | Custom

CRS Fascia Mount Posts come ready to install, custom fabricated to your exact requirements. All are pre-drilled and tapped for CRS Bottom Rail Adapters, and are fabricated for use with Cat. No. CR15FB Series Fascia Mount Brackets, which must be ordered separately (see below).

CRL CRS Fascia Mount Brackets

- **For Use With 1-1/2" Schedule 40, 1.9" O.D. Stainless Steel Pipe**
- **Made From Alloy 316 Stainless Steel**
- **Available in Brushed or Polished Stainless Finishes**
- **Three Styles Available - Standard, Inside Corner, and Outside Corner**

Outside Corner Bracket

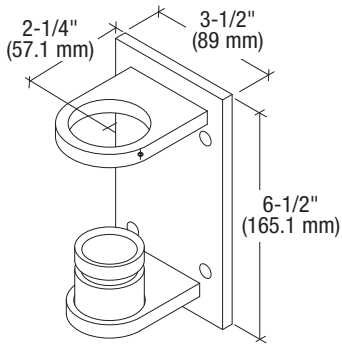
Standard Bracket

Inside Corner Bracket

CRL CRS Fascia Mount Brackets are designed to work with our 1-1/2" Schedule 40 CRS or WRS Posts. They allow you to mount your posts to the side of a deck or face of the stair stringer, giving you more usable floor space or stair width. We offer three styles: Standard, Inside Corner, and Outside Corner, allowing you complete flexibility in your railing design. **NOTE:** Not for use with thin wall tubing.

CRL CRS Standard Fascia Mount Bracket

- **For Use With 1-1/2" Schedule 40, 1.9" O.D. Stainless Steel Pipe**
- **Made from Alloy 316 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.

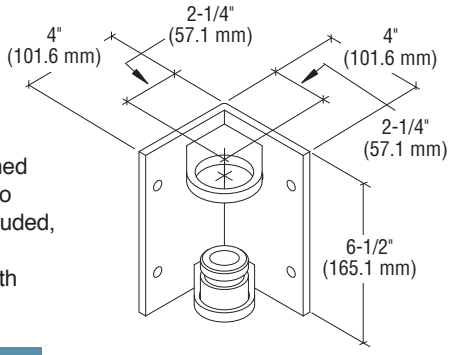
CAT. NO.	FINISH
CR15FBBS	Brushed Stainless Steel
CR15FBPS	Polished Stainless Steel

Minimum order: 1 each. All Fascia Mount Brackets can be combined for quantity pricing.

CRL CRS POST RAILING SYSTEM

CRL CRS Inside Corner Fascia Mount Bracket

- **For Use With 1-1/2" Schedule 40, 1.9" O.D. Stainless Steel Pipe**
- **Made From Alloy 316 Stainless Steel**
- **Available in Brushed or Polished Stainless Finishes**



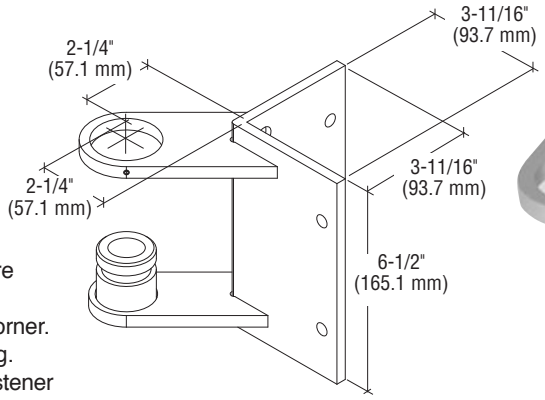
CRL CRS Inside Corner Fascia Mount Brackets are designed for use at inside corners of your railing, eliminating the need to double-up on the posts at the corner. Four fasteners, not included, are required for mounting. A structural engineer should be consulted for proper fastener selection. **NOTE:** Not for use with thin wall tubing.

CAT. NO.	FINISH
CR151FBBS	Brushed Stainless Steel
CR151FBPS	Polished Stainless Steel

Minimum order: 1 each. All Fascia Mount Brackets can be combined for quantity pricing.

CRL CRS Outside Corner Fascia Mount Bracket

- **For Use With 1-1/2" Schedule 40 1.9" O.D. Stainless Steel Pipe**
- **Made From Alloy 316 Stainless Steel**
- **Available in Brushed or Polished Stainless Finishes**



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.

CAT. NO.	FINISH
CR150FBBS	Brushed Stainless Steel
CR150FBPS	Polished Stainless Steel

Minimum order: 1 each. All Fascia Mount Brackets can be combined for quantity pricing.

Inside Corner

Outside Corner

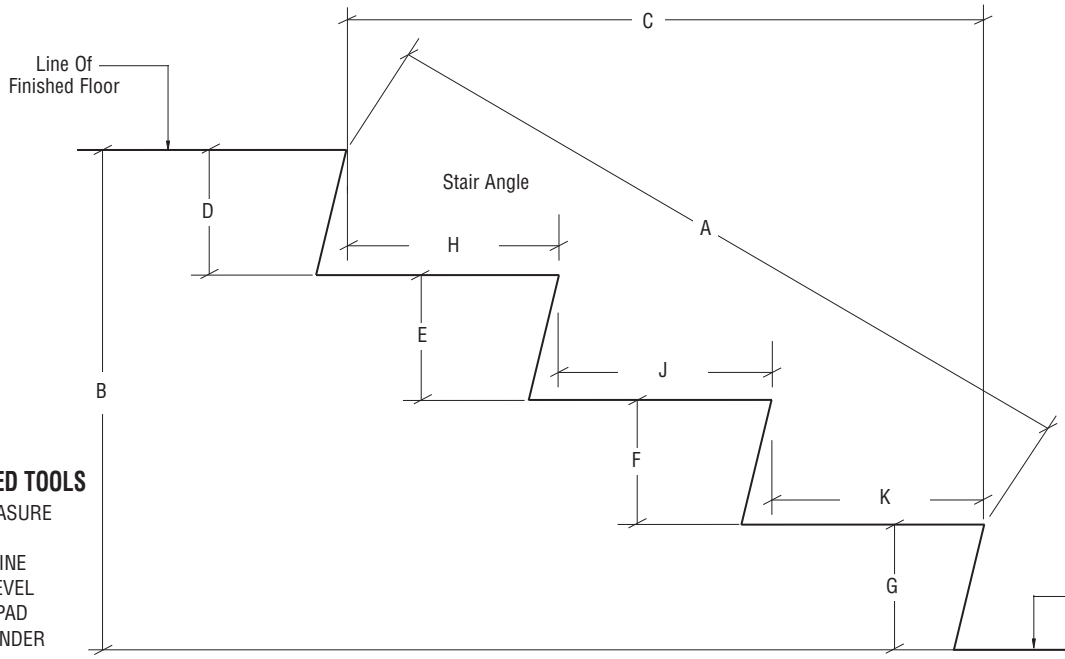
Practice Methods for Measuring Stairways

When measuring an existing stairway for fabricated railings please keep in mind the importance of every measurement that is needed to produce the required railing system. Measure every dimension that is indicated below to ensure your railing system is produced correctly.

Style #1

Measuring Short Run Stairways (4 or Fewer Treads) Dimensions Needed for Tread Mounted Post Rail System

Important: Depending on the complexity of your project, one or more of the following may be required to accurately order: sketches or drawings of your particular application with dimensions; printed architectural drawings or cad files; photos of the job site conditions (digital images are preferable).



REQUIRED TOOLS

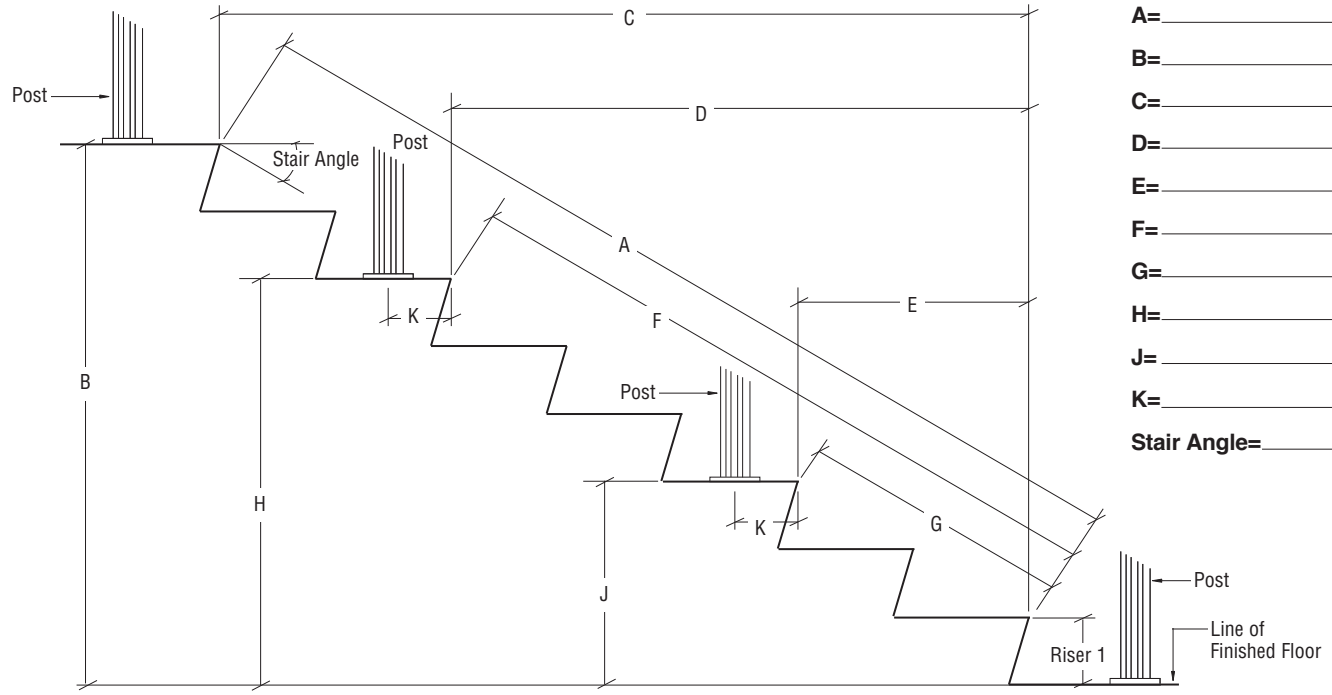
TAPE MEASURE
SQUARE
PLUMB LINE
LASER LEVEL
SKETCH PAD
ANGLE FINDER

Field Measure and Specify Each Required Dimension From the Key Below.

A=_____
B=_____
C=_____
D=_____
E=_____
F=_____
G=_____
H=_____
J=_____
K=_____
Stair Angle=_____

Style #2

Measuring Long Run Stairways (5 or More Treads) Dimensions Needed for Tread Mounted Post Rail System



Field Measure and Specify Each Required Dimension From the Key Below.

A=_____
B=_____
C=_____
D=_____
E=_____
F=_____
G=_____
H=_____
J=_____
K=_____
Stair Angle=_____

CRL Stainless Steel Post Railing Kits

P1 Series | P2 Series | P3 Series | P4 Series | P5 Series | P6 Series | P7 Series | P8 Series

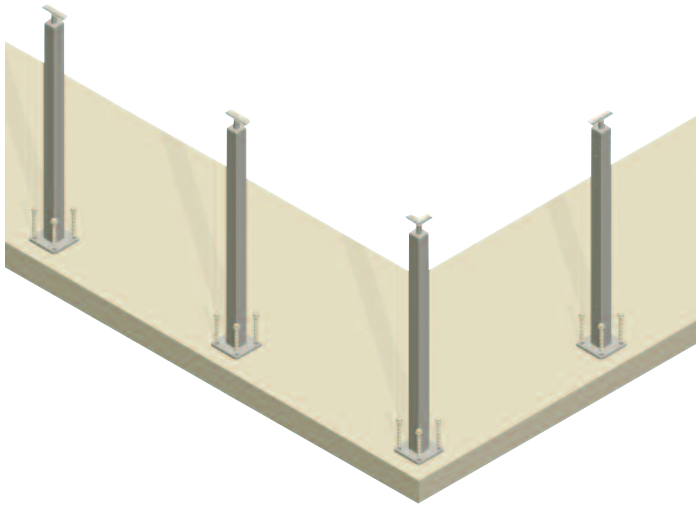
- **Post Kits Designed for Interior or Exterior Hand Rail and Guard Rail Applications**
- **Designed and Engineered to Meet or Exceed Building Codes**
- **Accept 1/2" (12 mm) Tempered Glass**
- **Low Maintenance 304 Alloy Stainless Steel Alloy Posts are Ready to Install**
- **Two Standard Stainless Finishes, With Custom Powder Paint Finishes Also Available**
- **Standard 36" (914 mm) and 42" (1067 mm) Post Heights Available**
- **Custom Styles and Heights on Special Order**

C.R. Laurence manufactures a comprehensive selection of Post Railing Kits 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 Post Railing Kits 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 304 alloy stainless steel, and come ready to install. Standard Post heights are 36" and 42" (914 and 1067 mm), but you can also order them in custom heights 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" (31.8 or 38.1 mm) Schedule 40 Hand Rail Tubing (see page B312) in complementary or contrasting finishes. **NOTE:** The 1/2" (12 mm) tempered glass is supplied by the customer, and must be fabricated with pre-drilled holes to be fastened to the Posts. CRL does not supply the glass, but can assist with the drilling information. Please contact CRL Technical Sales for assistance in planning your Post Railing project. C.R. Laurence is a fully accredited quality assurance company that is ISO-9001:2008 Certified. With 40 years experience, C.R. Laurence has learned a lot about what it takes to make quality products.

Basic Installation Instructions

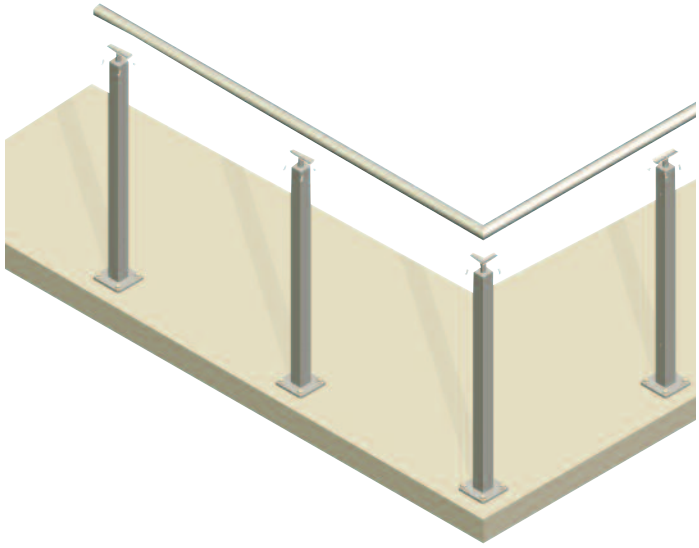
1. Post Installation

Install End and Corner Posts first to the substrate, and then continue with the intermediate posts. Be sure to measure and check the railing lengths and heights and ensure that the railing system is plumb and level.



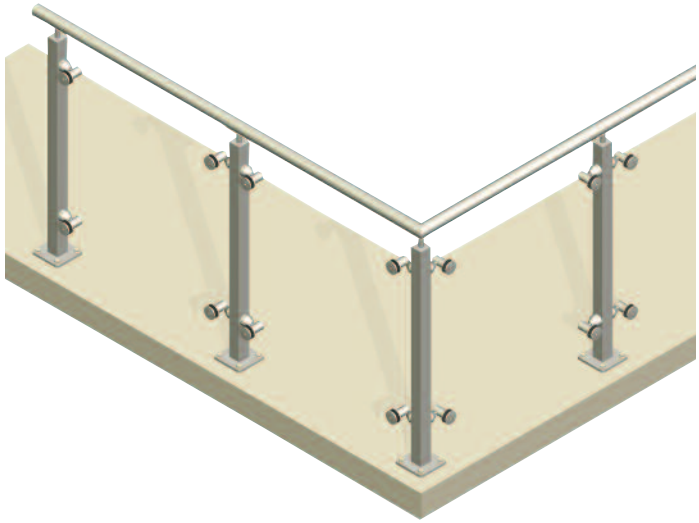
2. Top Rail Installation

Measure and install the top rail. Field fabrication may be required depending on job site conditions and top rail lengths. Attach the top rail to the standoff saddle with Cat. No. PRS1032 10-32 x 5/8" Stainless Steel Machine Screws. Drilling and tapping is required in field. See page B266 for information on P-Post Top Rail Installation Tool Kit.



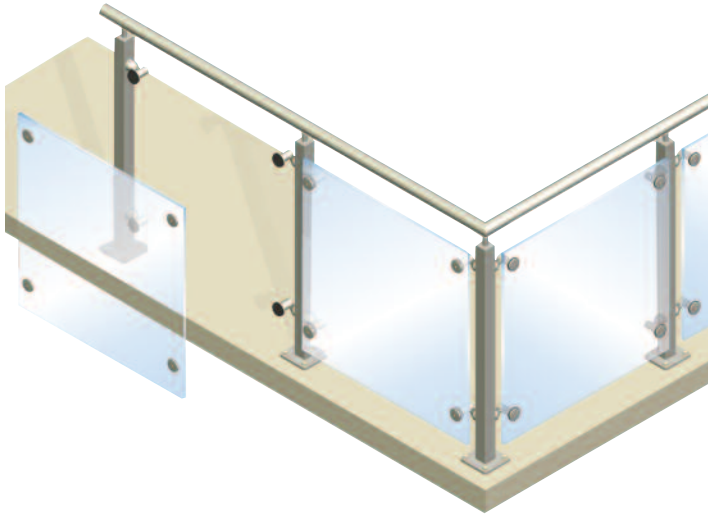
3. Glass Fitting Installation

After the railing system has 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 if 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.

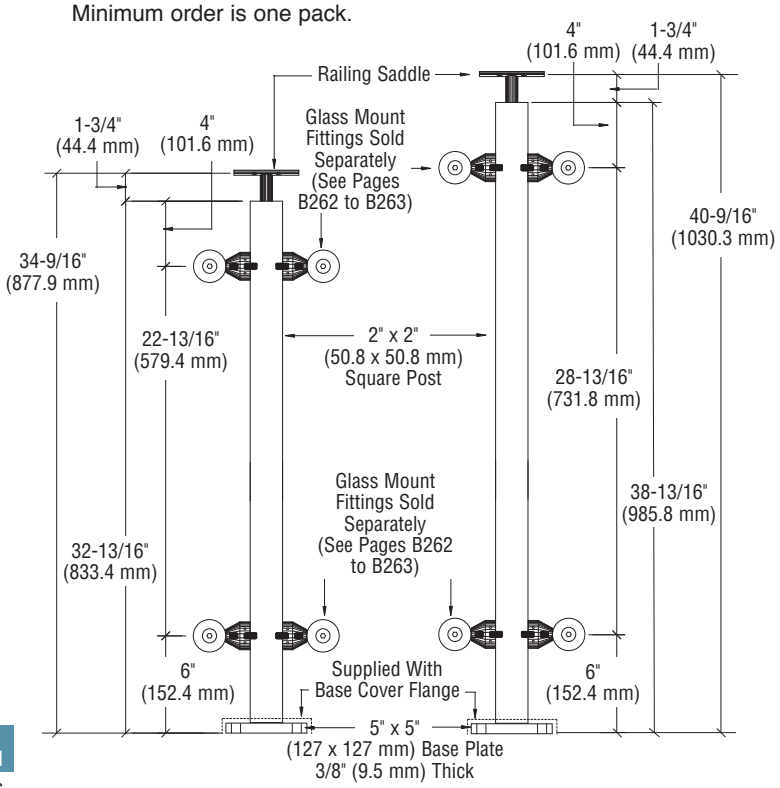


CRL P1 Series Post Railing Kits

- Designed to Accept 1/2" (12 mm) Tempered Glass
- Glass Attachment Fittings Sold Separately (See Pages B262 to B263)
- Meets or Exceeds Code Standards
- Top Saddle Supports 1-1/4" (31.8 mm) or 1-1/2" (38.1 mm) Diameter Schedule 40 Hand Rail Tubing (See Page B312)
- Standard Post Heights are 36" (914 mm) and 42" (1067 mm), With Custom Heights Available
- Two Standard Stainless Finishes, With Custom Powder Paint Finishes Also Available

CRL P1 Post Railing Kits are designed for commercial or residential installations that meet or exceed guard rail and hand rail code standards. These P1 Surface Mounted Post Railing Kits are manufactured from 2" (50.8 mm) square 304 Alloy Stainless Steel Tubing with 1/8" (3.2 mm) wall thickness. Kits are supplied complete with a 5" x 5" (127 x 127 mm) Base Plate, Base Cover Flange, and Welded Top Saddle. See page B266 for more information on P-Post Top Rail Installation Tool Kit. For screws to attach the Top Rail to the Saddle specify Cat. No. PRS1032. These 10-32 x 5/8" stainless steel screws come 50 per pack. Minimum order is one pack.

End Post Kit | 180 Degree Center Post Kit | 90 Degree Corner Post Kit



36" (914 mm) Post Kit **42" (1067 mm) Post Kit**

END POST KITS

36" HEIGHT CAT. NO.	42" HEIGHT CAT. NO.	FINISH
P136EBS	P142EBS	Brushed Stainless
P136EPS	P142EPS	Polished Stainless

Minimum order: 1 each. All Post Railing Kits can be combined for quantity pricing.

180 DEGREE CENTER POST KITS

36" HEIGHT CAT. NO.	42" HEIGHT CAT. NO.	FINISH
P136CBS	P142CBS	Brushed Stainless
P136CPS	P142CPS	Polished Stainless

Minimum order: 1 each. All Post Railing Kits can be combined for quantity pricing.

90 DEGREE CORNER POST KITS

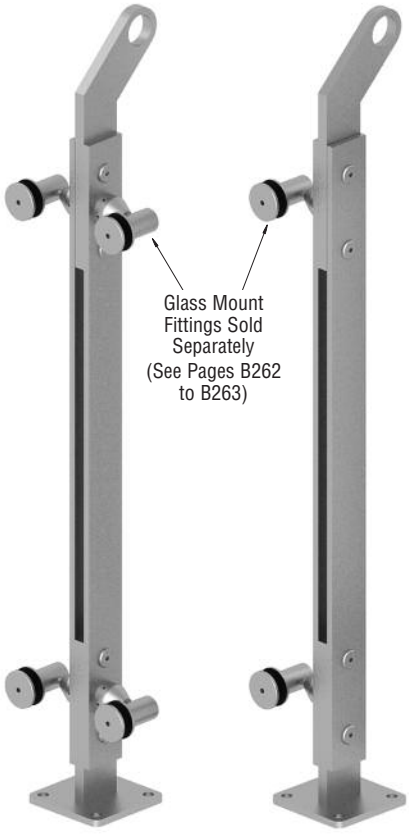
36" HEIGHT CAT. NO.	42" HEIGHT CAT. NO.	FINISH
P136LBS	P142LBS	Brushed Stainless
P136LPS	P142LPS	Polished Stainless

Minimum order: 1 each. All Post Railing Kits can be combined for quantity pricing.

CRL P2 Series Post Railing Kits

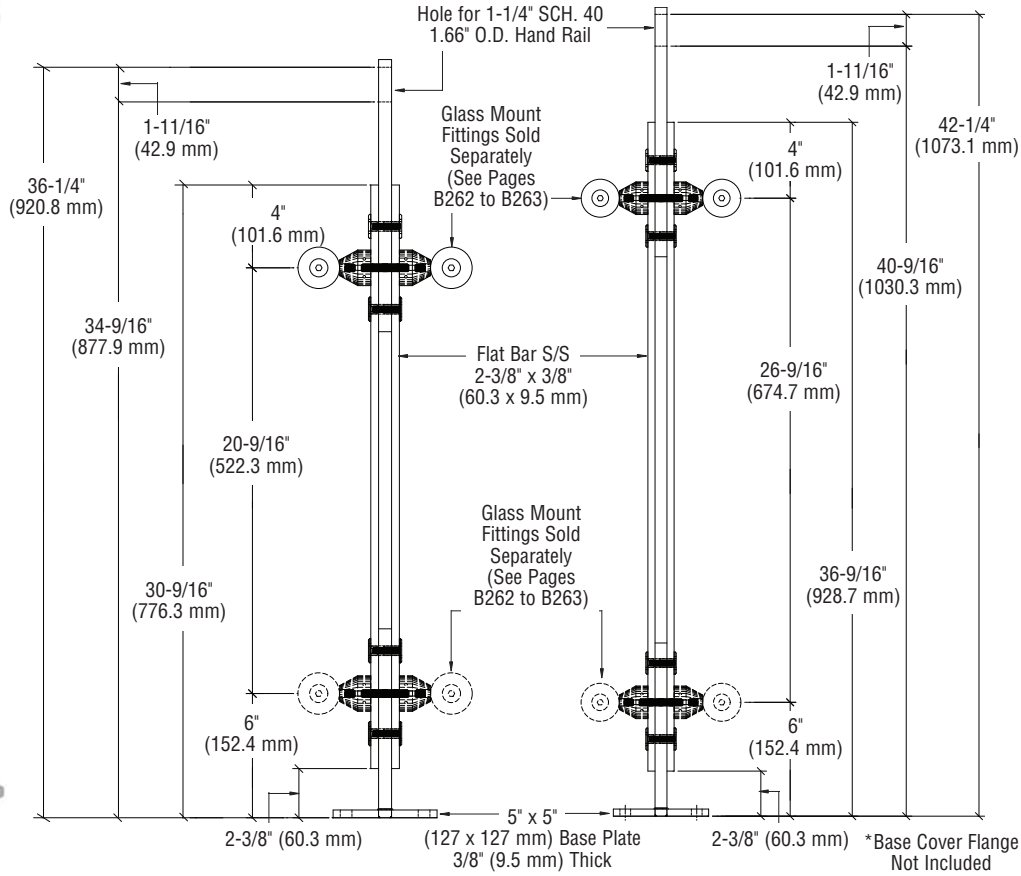
- Accepts 1/2" (12 mm) Tempered Glass
- Glass Attachment Fittings Sold Separately (See Pages B262 to B263)
- Meets or Exceeds Code Standards
- Post Supports 1-1/4" (31.8 mm) Schedule 40 1.66" O.D. Horizontal Tubing Hand Rail Tubing (See Page B312)
- Standard Post Heights are 36" (914 mm) and 42" (1067 mm), With Custom Heights Available
- Two Standard Stainless Finishes, With Custom Powder Paint Finishes Also Available

CRL P2 Post Railing Kits are designed for commercial or residential applications that meet or exceed guard rail code standards. Our P2 Surface Mounted Post Railing Kits are manufactured from Stainless Steel Flat Bars, designed to support 1-1/4" (31.8 mm) Schedule 40 1.66" O.D. Horizontal Tubing (see page B312). Kits are supplied complete with a Base Plate and prepped for our Standard Glass Mount Fittings see pages B262 to B263.



180 Degree Center Post Kit

End Post Kit



36" (914 mm) Post Kit

42" (1067 mm) Post Kit

END POST KITS

36" HEIGHT CAT. NO.	42" HEIGHT CAT. NO.	FINISH
P236EBS	P242EBS	Brushed Stainless
P236EPS	P242EPS	Polished Stainless

Minimum order: 1 each. All Post Railing Kits can be combined for quantity pricing.

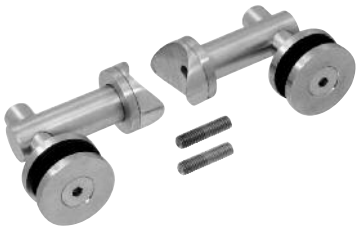
180 DEGREE CENTER POST KITS

36" HEIGHT CAT. NO.	42" HEIGHT CAT. NO.	FINISH
P236CBS	P242CBS	Brushed Stainless
P236CPS	P242CPS	Polished Stainless

Minimum order: 1 each. All Post Railing Kits can be combined for quantity pricing.

CRL P3 Series Post Railing Kits

- Designed to Accept 1/2" (12 mm) Tempered Glass
- Meets or Exceeds Code Standards
- Standard Post Heights are 36" (914 mm) and 42" (1067 mm), With Custom Heights Available
- Two Standard Stainless Steel Finishes, With Custom Powder Painted Finishes Also Available
- Glass Attachment Fittings and Hand Rail Brackets Sold Separately

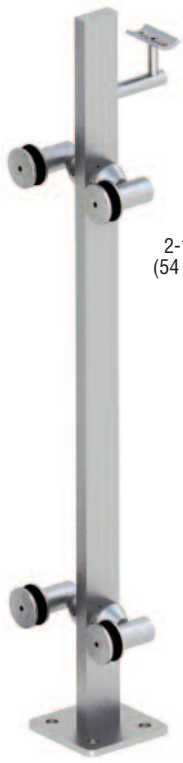


RB51F Fixed Glass Mount Fittings

RB50F Swivel Glass Mount Fittings

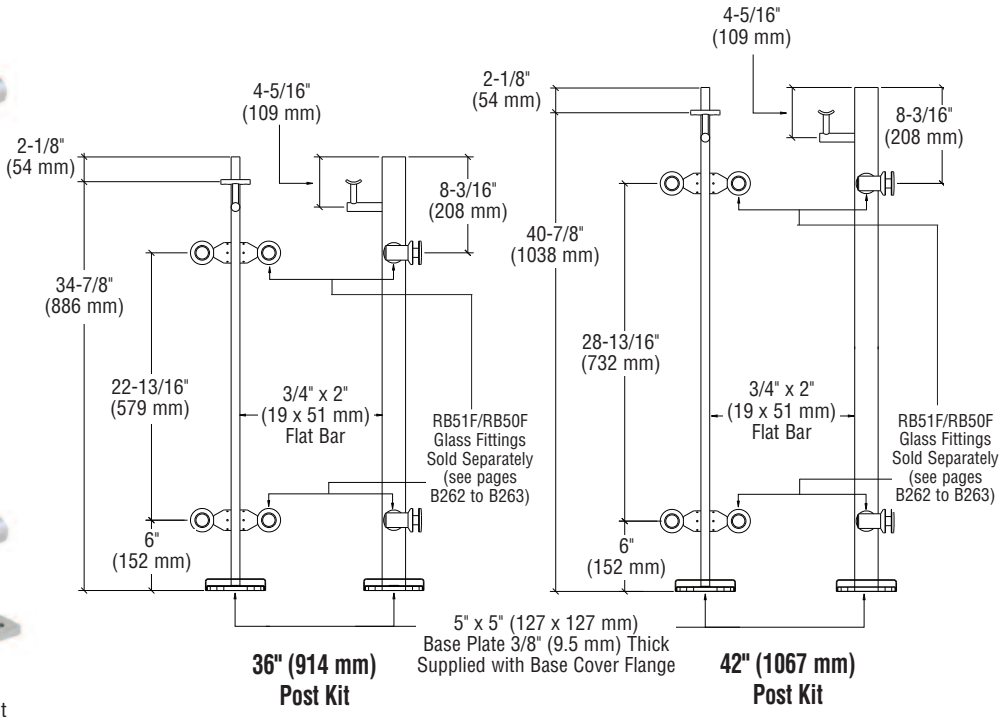
CRL P3 Surface Mounted Post Railing Kits are designed for commercial or residential installations that meet or exceed guard rail and hand rail code standards. The P3 Post Railing Kits are manufactured from 3/4" x 2" (19 x 51 mm) stainless steel flat bar. Kits are supplied complete with a 5" x 5" (127 x 127 mm) Base Plate, Base Plate Cover, and Hand Rail Bracket. Fixed or Swivel Glass Mount Fittings are sold separately, see pages B262 to B263.

End Post Kit



180 Degree Center Post Kit

MANUFACTURED IN THE USA BY C.R. LAURENCE
An ISO9001:2008 Certified Company



36" (914 mm) Post Kit

42" (1067 mm) Post Kit

END POST KITS

36" HEIGHT CAT. NO.	42" HEIGHT CAT. NO.	FINISH
P336EBS	P342EBS	Brushed Stainless
P336EPS	P342EPS	Polished Stainless

Minimum order: 1 each. All Post Railing Kits can be combined for quantity pricing.

180 DEGREE CENTER POST KITS

36" HEIGHT CAT. NO.	42" HEIGHT CAT. NO.	FINISH
P336CBS	P342CBS	Brushed Stainless
P336CPS	P342CPS	Polished Stainless

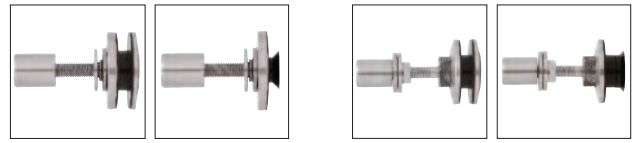
Minimum order: 1 each. All Post Railing Kits can be combined for quantity pricing.

CRL P4 Series Post Railing Kits

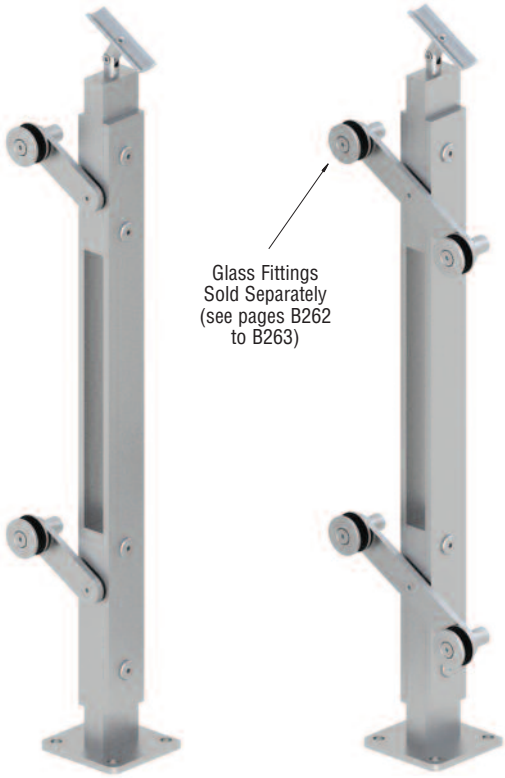
- **For Use With 1/2" (12 mm) Tempered Glass**
- **Glass Fabrication Required**
- **Meets or Exceeds Code Standards**
- **Standard Post Heights Are 36" (914 mm) and 42" (1067 mm), With Custom Heights Available**
- **Two Standard Stainless Finishes, With Custom Powder Paint Finishes Also Available**

CRL P4 Post Railing Kits are designed for commercial or residential applications that meet or exceed guard rail and hand rail code standards. These P4 Surface Mounted Post Railing Kits are manufactured from stainless steel material designed to support 1-1/4" (31.8 mm) or 1-1/2" (38.1 mm) diameter Schedule 40 Horizontal Tubing (see page B312). Kits are supplied complete with a Base Plate and factory installed Swivel Bracket. Fixed or Swivel Glass Fittings are sold separately (see pages B262 to B263). See page B266 for more information on P-Post Top Rail Installation Tool Kit. For screws to attach the Top Rail to the Saddle specify Cat. No. PRS1032. These 10-32 x 5/8" stainless steel screws come 50 per pack. Minimum order is one pack.

Rigid Type **Swivel Type**

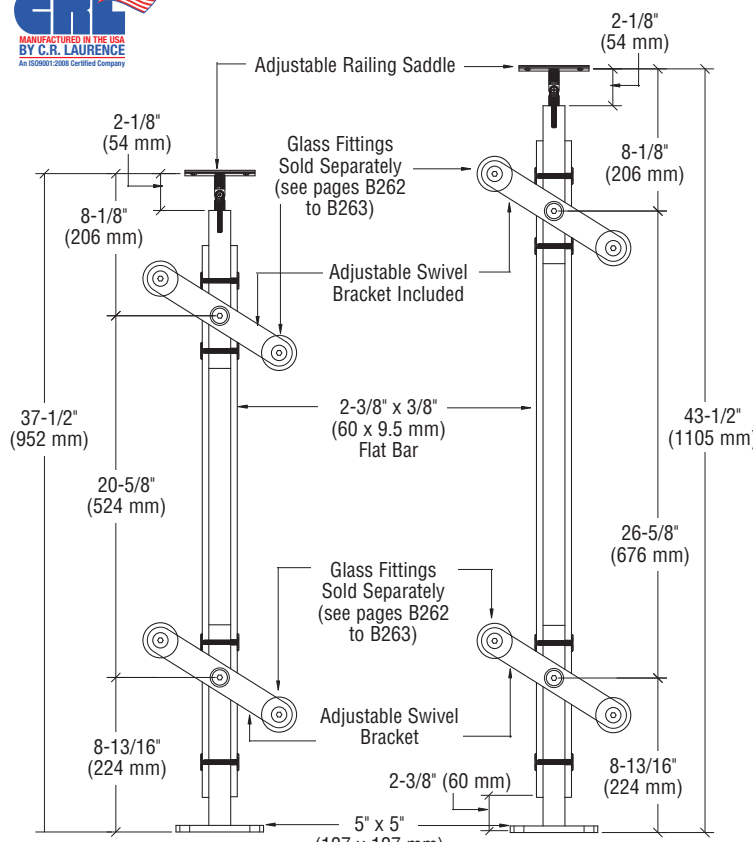


Glass Attachments Must Be Ordered Separately



End Post Kit

180 Degree Center Post Kit



*Base Cover Flanges Not Included

END POST KITS

36" HEIGHT CAT. NO.	42" HEIGHT CAT. NO.	FINISH
P436EBS	P442EBS	Brushed Stainless
P436EPS	P442EPS	Polished Stainless

Minimum order: 1 each. All Post Railing Kits can be combined for quantity pricing.

180 DEGREE CENTER POST KITS

36" HEIGHT CAT. NO.	42" HEIGHT CAT. NO.	FINISH
P436CBS	P442CBS	Brushed Stainless
P436CPS	P442CPS	Polished Stainless

Minimum order: 1 each. All Post Railing Kits can be combined for quantity pricing.

CRL P5 Series Post Railing Kits

- Accepts 1/2" (12 mm) Tempered Glass
- Glass Fabrication Required
- Meets or Exceeds Code Standards
- Post Supports 1-1/4" or 1-1/2" (31.8 or 38.1 mm) Diameter Schedule 40 Handrail Tubing
- Standard Post Heights are 36" (914 mm) and 42" (1067 mm), With Custom Heights Available
- Two Standard Stainless Finishes, With Custom Powder Paint Finishes Also Available

new

CRL P5 Series Post Railing Kits are designed for commercial or residential applications that meet or exceed guard rail code standards. P5 Posts are manufactured from flat bar stainless steel, and designed to support 1-1/4" (31.8 mm) to 1-1/2" (38.1 mm) Schedule 40 Horizontal Tubing (see page B312).

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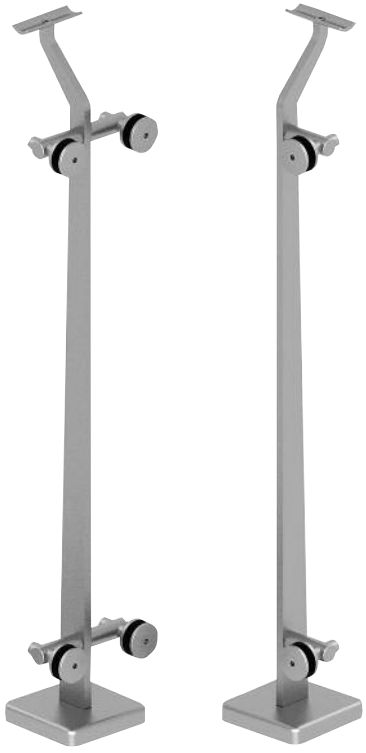
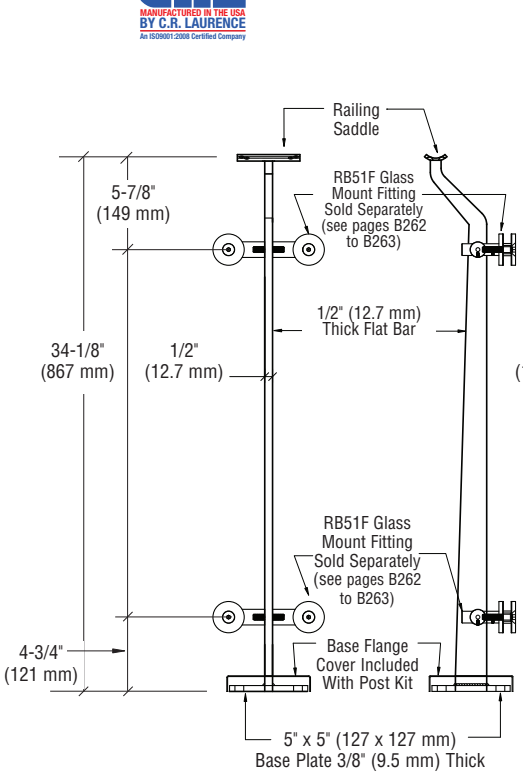
An ISO9001:2008 Certified Company



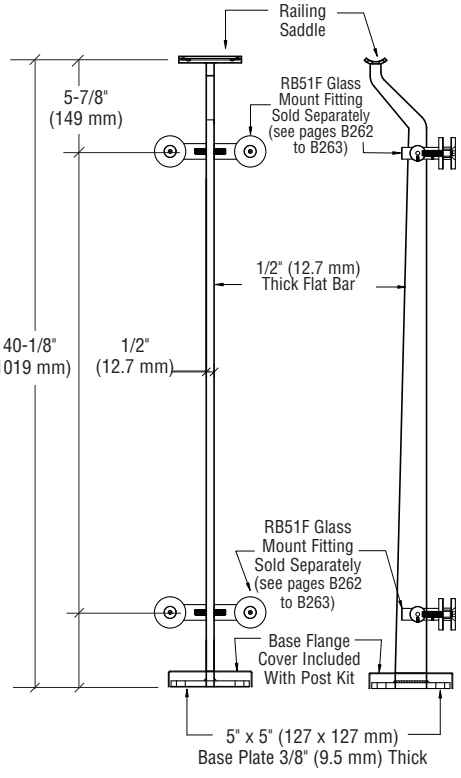
180 Degree Center Post Kit

End Post Kit



Front View Side View

36" (914 mm) Post Kit



Front View Side View

42" (1067 mm) Post Kit

180 DEGREE CENTER POST KITS

36" HEIGHT CAT. NO.	42" HEIGHT CAT. NO.	FINISH
P536CBS	P542CBS	Brushed Stainless
P536CPS	P542CPS	Polished Stainless

Minimum order: 1 each. All Post Railing Kits can be combined for quantity pricing.

LEFT END POST KITS

36" HEIGHT CAT. NO.	42" HEIGHT CAT. NO.	FINISH
P536LEBS	P542LEBS	Brushed Stainless
P536LEPS	P542LEPS	Polished Stainless

Minimum order: 1 each. All Post Railing Kits can be combined for quantity pricing.

RIGHT END POST KITS

36" HEIGHT CAT. NO.	42" HEIGHT CAT. NO.	FINISH
P536REBS	P542REBS	Brushed Stainless
P536REPS	P542REPS	Polished Stainless

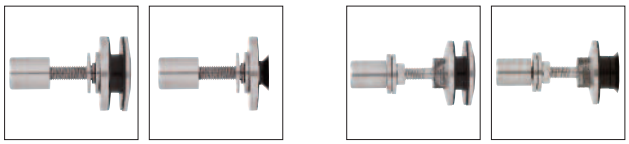
Minimum order: 1 each. All Post Railing Kits can be combined for quantity pricing.

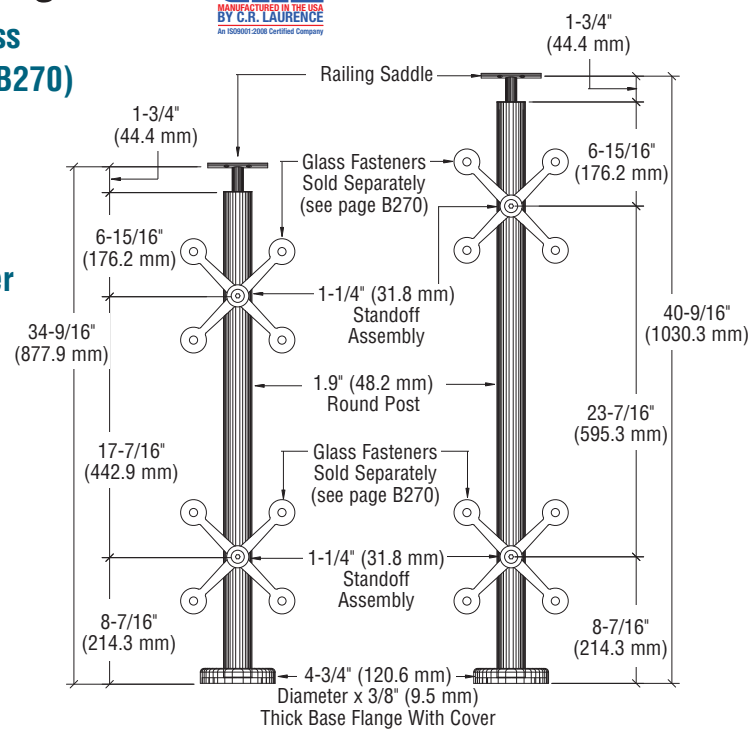
CRL P6 Series Spider Post Railing Kits

- **Designed to Accept 1/2" (12 mm) Tempered Glass**
- **Glass Attachments Sold Separately (See Page B270)**
- **Two Standard Stainless Finishes, With Custom Powder Paint Finishes Also Available**
- **Standard Post Heights are 36" (914 mm) and 42" (1067 mm)**
- **Custom Post Heights Available on Special Order**

CRL P6 Spider Post Railing Kits are manufactured from Schedule 40 1.9" (48.2 mm) diameter Stainless Steel Tubing, and are designed for guard rail or hand rail applications to support 1-1/4" (31.8 mm) or 1-1/2" (38.1 mm) diameter Horizontal Tubing (see page B312). Kits are supplied complete with a Base Plate, Welded Top Saddle, and factory mounted Fixed Glass Spider Fittings. See page B266 for more information on P-Post Top Rail Installation Tool Kit. For screws to attach the Top Rail to the Saddle specify Cat. No. PRS1032. These 10-32 x 5/8" stainless steel screws come 50 per pack. Minimum order is one pack.

Glass Attachments Below Must Be Ordered Separately (See page B270)



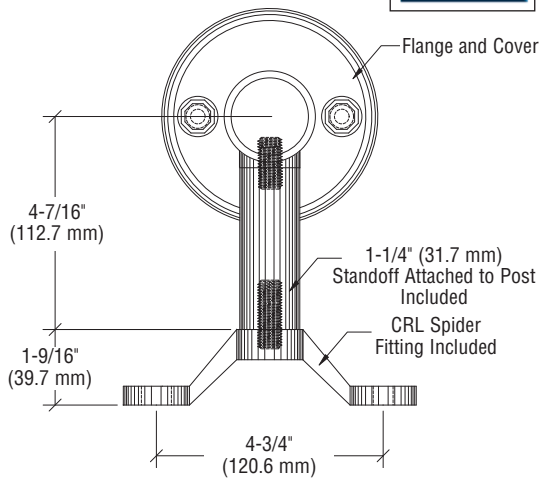


36" (914 mm) Post Kit **42" (1067 mm) Post Kit**

*Spider Fittings and Standoff Components are included. Glass Attachment Fasteners sold separately see page B270.

Use Only TEMPERED GLASS

End Post Kit | 180 Degree Center Post Kit | 135 Degree Angle Post Kit | 90 Degree Corner Post Kit



END POST KITS

36" HEIGHT CAT. NO.	42" HEIGHT CAT. NO.	FINISH
P636EBS	P642EBS	Brushed Stainless
P636EPS	P642EPS	Polished Stainless

Minimum order: 1 each. All Post Railing Kits can be combined for quantity pricing.

180 DEGREE CENTER POST KITS

36" HEIGHT CAT. NO.	42" HEIGHT CAT. NO.	FINISH
P636CBS	P642CBS	Brushed Stainless
P636CPS	P642CPS	Polished Stainless

Minimum order: 1 each. All Post Railing Kits can be combined for quantity pricing.

90 DEGREE CORNER POST KITS

36" HEIGHT CAT. NO.	42" HEIGHT CAT. NO.	FINISH
P636LBS	P642LBS	Brushed Stainless
P636LPS	P642LPS	Polished Stainless

Minimum order: 1 each. All Post Railing Kits can be combined for quantity pricing.

135 DEGREE ANGLE POST KITS

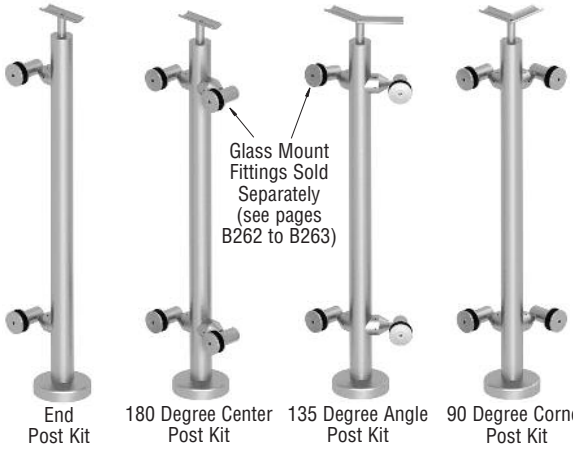
36" HEIGHT CAT. NO.	42" HEIGHT CAT. NO.	FINISH
P636ABS	P642ABS	Brushed Stainless
P636APS	P642APS	Polished Stainless

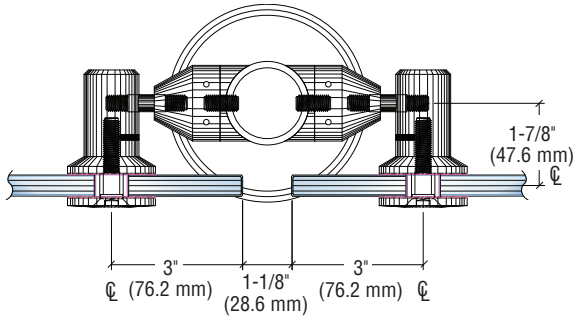
Minimum order: 1 each. All Post Railing Kits can be combined for quantity pricing.

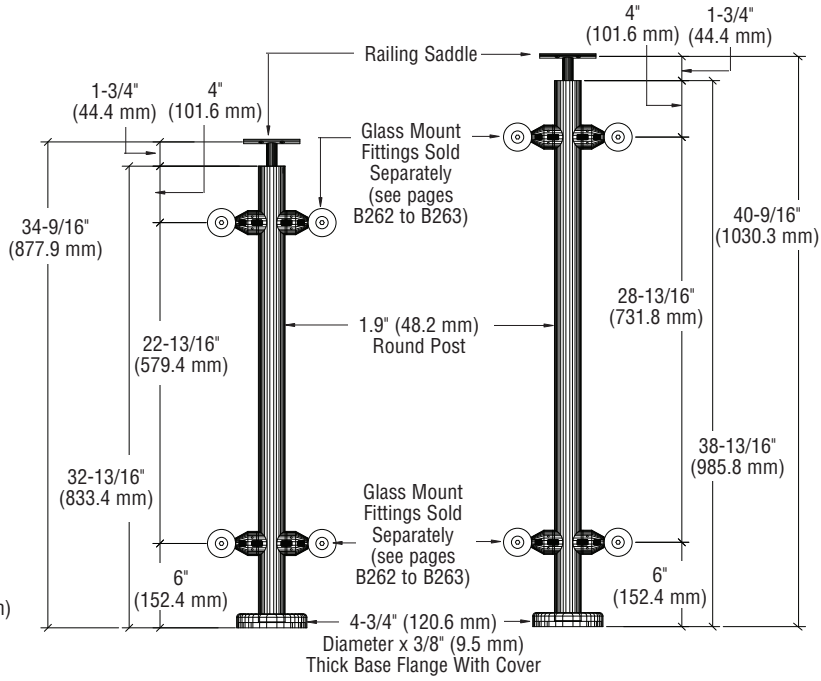
CRL P7 Series Post Railing Kits

- **Designed to Accept 1/2" (12 mm) Tempered Glass**
- **Glass Attachment Fittings Sold Separately (See Pages B262 to B263)**
- **Standard Post Heights are 36" (914 mm) and 42" (1067 mm)**
- **Custom Post Heights Also Available**
- **Two Standard Stainless Finishes, With Custom Powder Paint Finishes Also Available**

CRL's Surface Mounted Post Railing Kits are manufactured from Schedule 40 1.9" (48.2 mm) diameter Stainless Steel Tubing, and are designed for guard rail or hand rail applications. Saddles support 1-1/4" or 1-1/2" (31.8 or 38.1 mm) Schedule 40 Hand Rail Tubing. Kits are supplied complete with a Base Plate, Base Cover Flange, and Welded Top Saddle. See page B266 for more information on P-Post Top Rail Installation Tool Kit. For screws to attach the Top Rail to the Saddle specify Cat. No. PRS1032. These 10-32 x 5/8" stainless steel screws come 50 per pack. Minimum order is one pack.







END POST KITS

36" HEIGHT CAT. NO.	42" HEIGHT CAT. NO.	FINISH
P7F36EBS	P7F42EBS	Brushed Stainless
P7F36EPS	P7F42EPS	Polished Stainless

Minimum order: 1 each. All Post Railing Kits can be combined for quantity pricing.

180 DEGREE CENTER POST KITS

36" HEIGHT CAT. NO.	42" HEIGHT CAT. NO.	FINISH
P7F36CBS	P7F42CBS	Brushed Stainless
P7F36CPS	P7F42CPS	Polished Stainless

Minimum order: 1 each. All Post Railing Kits can be combined for quantity pricing.

90 DEGREE CORNER POST KITS

36" HEIGHT CAT. NO.	42" HEIGHT CAT. NO.	FINISH
P7F36LBS	P7F42LBS	Brushed Stainless
P7F36LPS	P7F42LPS	Polished Stainless

Minimum order: 1 each. All Post Railing Kits can be combined for quantity pricing.

135 DEGREE ANGLE POST KITS

36" HEIGHT CAT. NO.	42" HEIGHT CAT. NO.	FINISH
P7F36ABS	P7F42ABS	Brushed Stainless
P7F36APS	P7F42APS	Polished Stainless

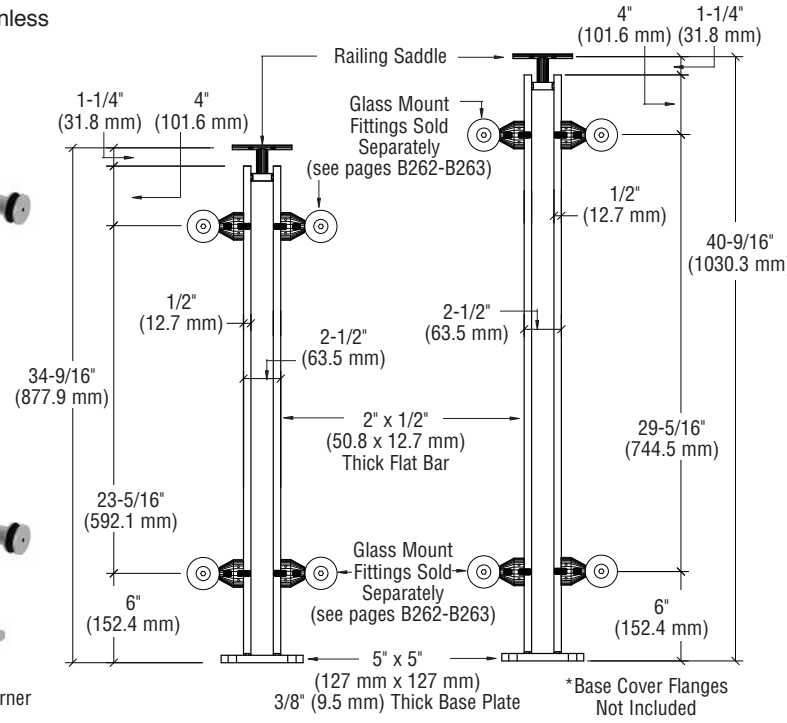
Minimum order: 1 each. All Post Railing Kits can be combined for quantity pricing.

CRL P8 Series Post Railing Kits

- **Designed to Accept 1/2" (12 mm) Tempered Glass**
- **Glass Attachment Fittings Sold Separately (See Pages B262-B263)**
- **Standard Post Heights are 36" (914 mm) and 42" (1067 mm)**
- **Custom Post Heights Also Available**
- **Two Standard Stainless Finishes, With Custom Powder Paint Finishes Also Available**

These innovative Post Railing Kits can be used for guard rail or hand rail applications. CRL's Surface Mounted Post Railing Kits are manufactured from 1/2" x 2" (12.7 x 50.8 mm) Stainless Steel Flat Bars. Saddles support 1-1/4" or 1-1/2" (31.8 or 38.1 mm) Schedule 40 Hand Rail Tubing. Kits are supplied complete with a Base Plate, Welded Top Saddle, and Glass Fittings attached to the post at the factory. See page B266 for more information on P-Post Top Rail Installation Tool Kit. For screws to attach the Top Rail to the Saddle specify Cat. No. PRS1032. These 10-32 x 5/8" stainless steel screws come 50 per pack. Minimum order is one pack.

End Post Kit | 180 Degree Center Post Kit | 135 Degree Angle Post Kit | 90 Degree Corner Post Kit



36" (914 mm) Post Kit **42" (1067 mm) Post Kit**

END POST KITS

36" HEIGHT CAT. NO.	42" HEIGHT CAT. NO.	FINISH
P8F36EBS	P8F42EBS	Brushed Stainless
P8F36EPS	P8F42EPS	Polished Stainless

Minimum order: 1 each. All Post Railing Kits can be combined for quantity pricing.

180 DEGREE CENTER POST KITS

36" HEIGHT CAT. NO.	42" HEIGHT CAT. NO.	FINISH
P8F36CBS	P8F42CBS	Brushed Stainless
P8F36CPS	P8F42CPS	Polished Stainless

Minimum order: 1 each. All Post Railing Kits can be combined for quantity pricing.

90 DEGREE CORNER POST KITS

36" HEIGHT CAT. NO.	42" HEIGHT CAT. NO.	FINISH
P8F36LBS	P8F42LBS	Brushed Stainless
P8F36LPS	P8F42LPS	Polished Stainless

Minimum order: 1 each. All Post Railing Kits can be combined for quantity pricing.

135 DEGREE ANGLE POST KITS

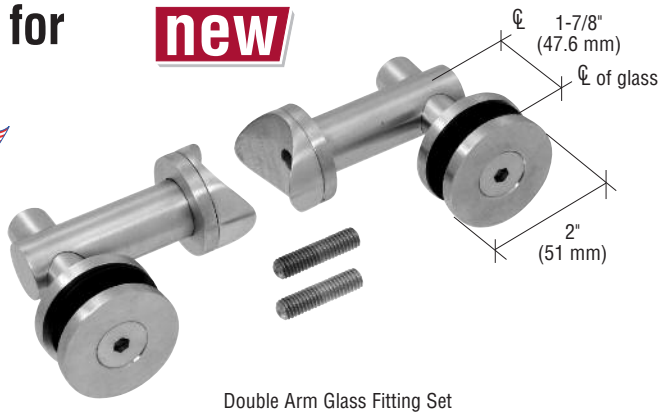
36" HEIGHT CAT. NO.	42" HEIGHT CAT. NO.	FINISH
P8F36ABS	P8F42ABS	Brushed Stainless
P8F36APS	P8F42APS	Polished Stainless

Minimum order: 1 each. All Post Railing Kits can be combined for quantity pricing.

CRL Double Arm Fixed Glass Fittings for Round Post or Flat Surface Mounting

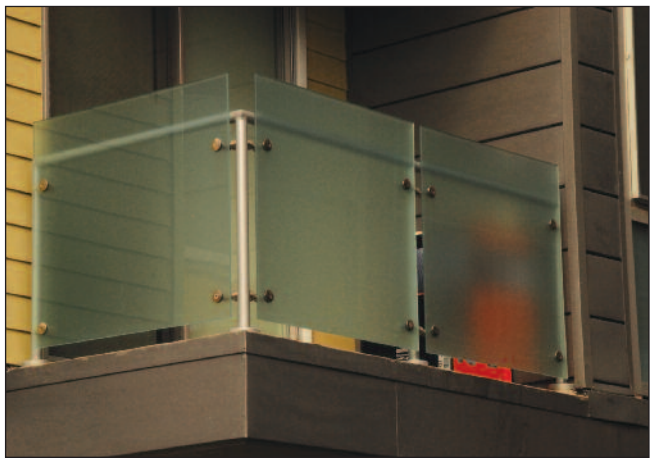
new

- 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 Alloy Stainless Steel Construction for Durability
- Compact Design for Minimal Obstruction
- For 1/2" (12 mm) Thick Glazing Standard



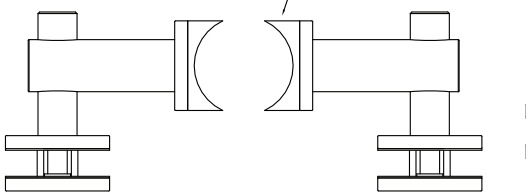
Double Arm Glass Fitting Set

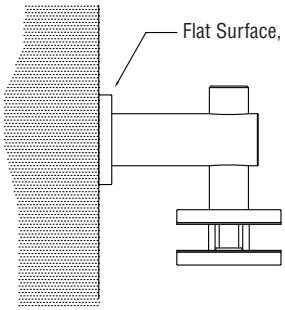
CRL's New Double Arm Fixed Glass Fittings are designed for almost any application where your glazing needs to be point supported. The fittings can be mounted to round or flat posts, walls, glass fins, canopy brackets, and many other substrates. The compact design offers minimal obstruction. Two stainless finishes are available, brushed and polished. Comes with two 3/8"-16 x 13/16" (20.6 mm) stainless steel threaded studs for attachment.



SPECIFICATIONS:
For Use With 1/2" (12 mm) Tempered Glass Standard.
For Larger Glass Thickness Use CRL's Glass Extension Bolts Below (Do not use with raw or annealed glass).
GLASS FABRICATION:
One 3/4" (19 mm) Diameter Hole Per Fitting.

Use Only TEMPERED GLASS





CAT. NO.	FINISH
RB51FBS	Brushed Stainless
RB51FPS	Polished Stainless

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

CRL Glass Extension Bolts

new

- Threaded Studs for Thicker Glass Panel Applications
- For Use With RB50 and RB51 Glass Fittings
- 316 Alloy 3/8"-16 Threaded Studs

CRL's Glass Extension Bolts were designed for projects that require thicker panel connections. Made from 316 Alloy Stainless Steel, these component parts are designed to work with CRL's RB50 and RB51 Double Arm Glass Fittings.

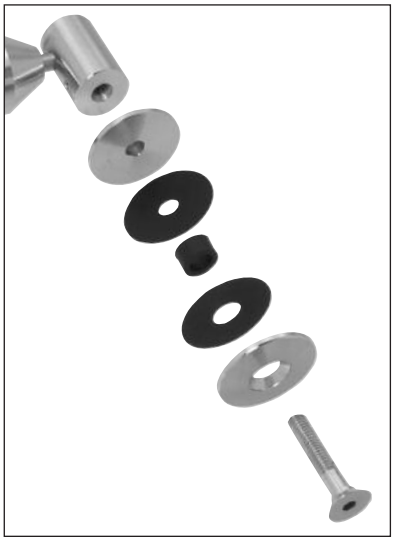
BRUSHED STAINLESS CAT. NO.	POLISHED STAINLESS CAT. NO.	DESCRIPTION
RBEB2BS	RBEB2PS	2" (51 mm) Bolt for 1/2" (12 mm) Thick Panels
RBEB214BS	RBEB214PS	2-1/4" (57 mm) Bolt for 3/4" (19 mm) Thick Panels
RBEB212BS	RBEB212PS	2-1/2" (63 mm) Bolt for 1" (25 mm) Thick Panels

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

CAT. NO. RBEB2
2" (51 mm)

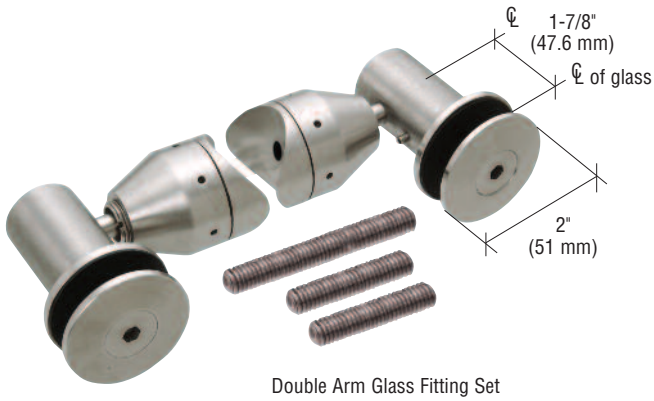
CAT. NO. RBEB214
2-1/4" (57 mm)

CAT. NO. RBEB212
2-1/2" (63 mm)



CRL Double Arm Glass Fittings for 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 Alloy Stainless Steel Construction for Durability**
- **Compact Design for Minimal Obstruction**



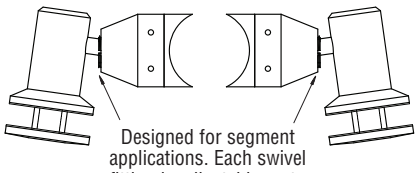
Double Arm Glass Fitting Set

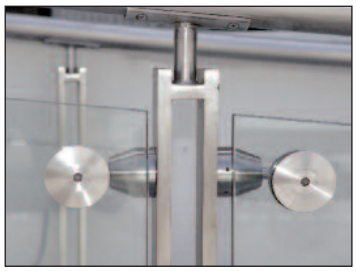
This ingenious Double Arm Glass Fitting can be used to mount 1/2" (12 mm) tempered glass to posts, walls, glass fins, and canopy brackets. The compact attachment portion offers minimal obstruction to the glass, and you can choose from either a fixed or swiveling mount. Glass fabrication is limited to 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" (20.6 mm) and one 3/8"-16 x 1-1/4" (31.8 mm) stainless steel threaded studs.

Use Only TEMPERED GLASS

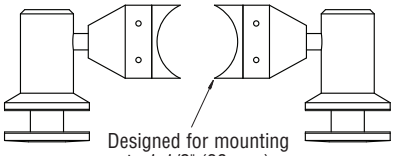
CAT. NO. SNW3

Swivel Fitting





Fixed Fitting



SPECIFICATIONS:
For Use With 1/2" (12 mm) Tempered Glass (Do not use with raw or annealed glass).
GLASS FABRICATION:
One 3/4" (19 mm) Diameter Hole Per Fitting.

SWIVEL FITTING SET

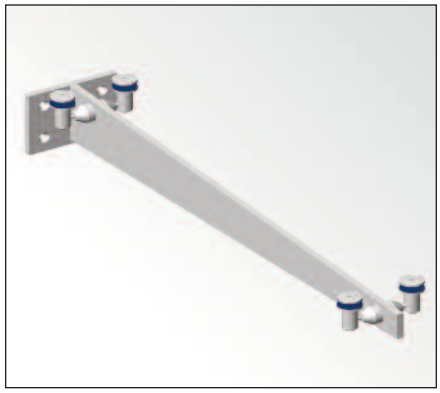
CAT. NO.	FINISH
RB50SBS	Brushed Stainless
RB50SPS	Polished Stainless

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

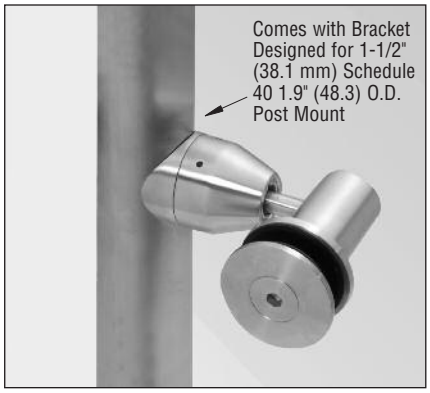
FIXED FITTING SET

CAT. NO.	FINISH
RB50FBS	Brushed Stainless
RB50FPS	Polished Stainless

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



Canopy or Awning Bracket Application



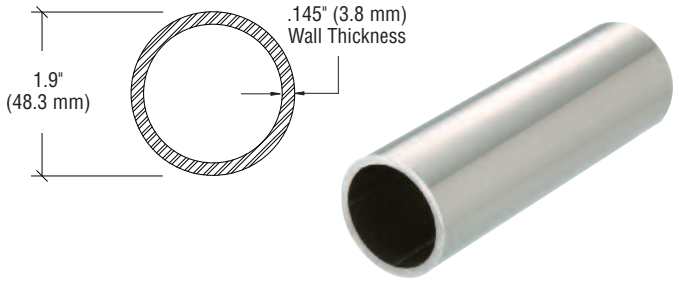
Post Mount Application

Wall Mount Application

CRL P-SERIES POST RAILING SYSTEMS

CRL 1-1/2" Schedule 40 Pipe Rail Tubing

- Designed for Guard Rail, Hand Rail, Stairway, and Handicap Ramp Areas
- 1.9" (48.3 mm) Outside Diameter
- Five Architectural Finishes Plus Mill Aluminum
- Available in Stock Lengths and Custom Fabricated to Your Specifications



1-1/2" (38.1 MM) SCHEDULE 40 PIPE RAIL TUBING

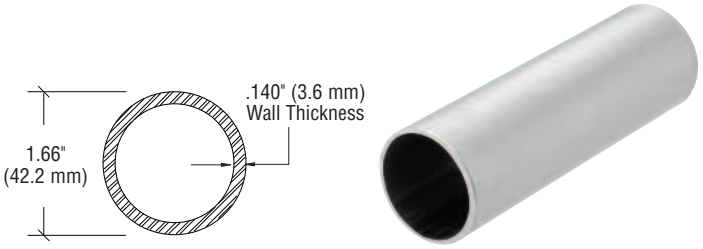
CAT. NO.	FINISH	WALL THICKNESS	LENGTH	USE SLEEVE NO.
PR15BS10	Brushed Stainless	.145" (3.8 mm)	120" (3.05 m)	PR19CSS
PR15BS20	Brushed Stainless	.145" (3.8 mm)	240" (6.10 m)	PR19CSS
PR15PS10	Polished Stainless	.145" (3.8 mm)	120" (3.05 m)	PR19CSS
PR15PS20	Polished Stainless	.145" (3.8 mm)	240" (6.10 m)	PR19CSS
HR19M	Mill Finish Aluminum	.145" (3.8 mm)	240" (6.10 m)	GR19CSM
HR19SA	Satin Anodized	.145" (3.8 mm)	240" (6.10 m)	GR19CSM
HR19DU	Dark Bronze Anodized	.145" (3.8 mm)	240" (6.10 m)	GR19CSM

Minimum order: 1 each. All Hand Rail Tubing 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 areas. Formed using precision tooling to maintain uniform diameters and allowing for smooth hairline transitions at splice and end cap locations. Use of our Cat. No. 32629 Metal Contact Cement (see page B337) is required to achieve a secure and permanent bond at all connections.

CRL 1-1/4" Schedule 40 Pipe Rail Tubing

- Designed for Guard Rail, Hand Rail, Stairway, and Handicap Ramp Areas
- 1.66" (42.2 mm) Outside Diameter
- Polished or Brushed Stainless Steel Available in Stock Lengths and Custom Fabricated to Your Specifications



1-1/4" (31.8 MM) SCHEDULE 40 PIPE RAIL TUBING

CAT. NO.	FINISH	WALL THICKNESS	LENGTH	USE SLEEVE NO.
PR12BS10	Brushed Stainless	.140" (3.6 mm)	120" (3.05 m)	PR16CSS
PR12BS20	Brushed Stainless	.140" (3.6 mm)	240" (6.10 m)	PR16CSS
PR12PS10	Polished Stainless	.140" (3.6 mm)	120" (3.05 m)	PR16CSS
PR12PS20	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.

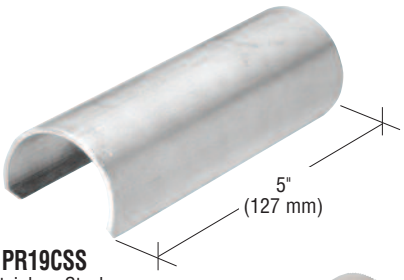
CRL's 1-1/4" Schedule 40 Pipe Rail Tubing is designed for guard rail, hand rail, stairway, and handicap ramp areas. Formed using precision tooling to maintain uniform diameters and allowing for smooth hairline transitions at splice and ends cap locations. Use of our Cat. No. 32629 Metal Contact Cement (see page B337) is required to achieve a secure and permanent bond at all connections.

CRL Pipe Rail Splice Connectors

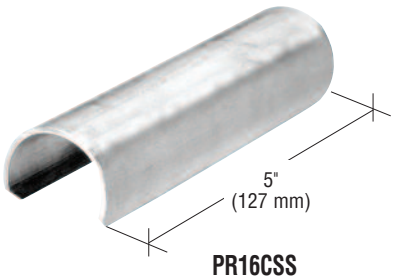
- Provides Proper Alignment Between Railing Splices
- Shaped to Fit and Ready to Install in Pipe Railings Shown Above

CRL Pipe Rail Splice Connectors are used to connect and provide proper alignment between railing splice locations. Use of our Cat. No. 32629 Metal Contact Cement (see page B337) is required to achieve a secure and permanent bond at all connections.

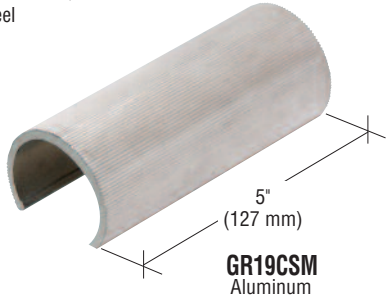
Important Installation Note: Always Use Connector Sleeves Made of the Same Metal as the Cap Rail, Cap Rail Corner, or Hand Rail Metal



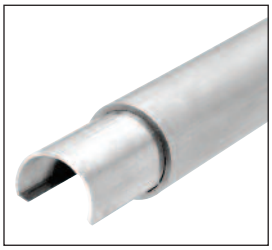
PR19CSS
Stainless Steel



PR16CSS
Stainless Steel



GR19CSM
Aluminum



CAT. NO.	MATERIAL	FOR USE WITH
PR19CSS	Stainless Steel	1-1/2" Sch. 40 1.9" (48.3 mm) Tubing
PR16CSS	Stainless Steel	1-1/4" Sch. 40 1.66" (42.2 mm) Tubing
GR19CSM	Mill Aluminum	1-1/2" Sch. 40 1.9" (48.3 mm) Tubing

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

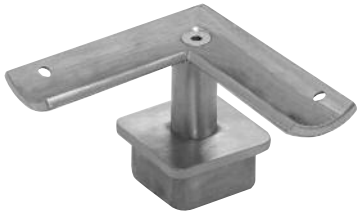
CRL P-SERIES POST RAILING SYSTEMS

For Pricing Visit Our Web Site or Call Us Toll Free at the Phone Numbers Shown on the Back Cover

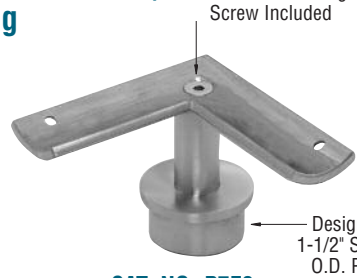
CRL P-Series Fixed Standoff Saddles

new

- Designed to be Welded to Post Tops
- Supports 1-1/2" to 2" (38.1 to 51 mm) Diameter Hand Rail Tubing
- Two Stainless Finishes



CAT. NO. P1F9
2" (50.8 mm) Square Post
90° Fixed Standoff Saddle



CAT. NO. P7F9
1.9" (48.3 mm) Round Post
90° Fixed Standoff Saddle

CAT. NO. P1FS
2" (50.8 mm) Square Post
180° Fixed Standoff Saddle

CAT. NO. P7FS
1.9" (48.3 mm) Round Post
180° Fixed Standoff Saddle

90 DEGREE FIXED STANDOFF SADDLES

CAT. NO.	FITS P-SERIES POSTS	FINISH
P1F9BS	P1	Brushed Stainless
P1F9PS	P1	Polished Stainless
P7F9BS	P6, P7	Brushed Stainless
P7F9PS	P6, P7	Polished Stainless

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

180 DEGREE FIXED STANDOFF SADDLES

CAT. NO.	FITS P-SERIES POSTS	FINISH
P1FSBS	P1	Brushed Stainless
P1FSPS	P1	Polished Stainless
P7FSBS	P6, P7	Brushed Stainless
P7FSPS	P6, P7	Polished Stainless

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

CRL P-Series Swivel Standoff Saddles

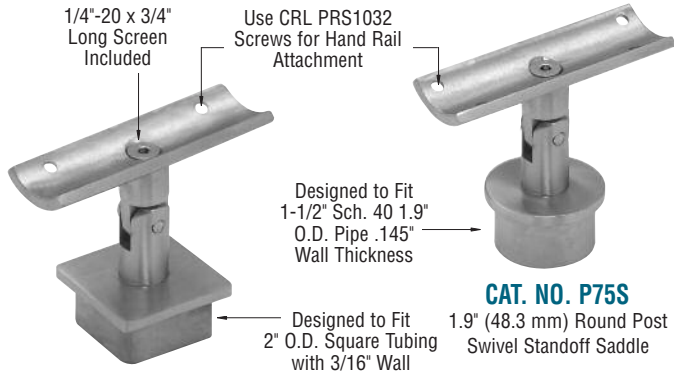
new

- Designed to be Welded to Post Tops
- Two Stainless Finishes
- Supports 1-1/2" to 2" (38.1 to 51 mm) Diameter Hand Rail Tubing

180 DEGREE SWIVEL STANDOFF SADDLES

CAT. NO.	FITS P-SERIES POSTS	FINISH
P15SBS	P1	Brushed Stainless
P15SPS	P1	Polished Stainless
P75SBS	P6, P7	Brushed Stainless
P75SPS	P6, P7	Polished Stainless

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



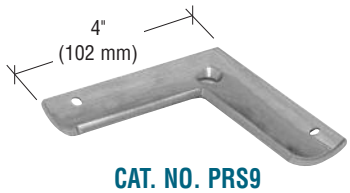
CAT. NO. P15S
2" (50.8 mm) Square Post
Swivel Standoff Saddle

CAT. NO. P75S
1.9" (48.3 mm) Round Post
Swivel Standoff Saddle

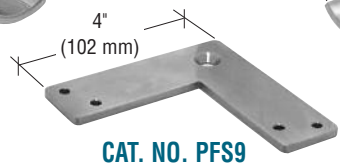
CRL P-Series Replacement Saddles

- Works With All CRL P-Series Post Kits
- Radius and Flat Saddles in Two Finishes

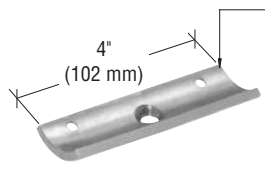
new



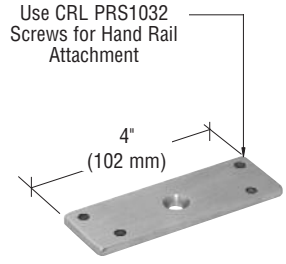
CAT. NO. PRS9
90° Radius Saddle



CAT. NO. PFS9
90° Flat Saddle



CAT. NO. PRS1
180° Radius Saddle



CAT. NO. PFS1
180° Flat Saddle

90 DEGREE REPLACEMENT SADDLES

CAT. NO.	DESCRIPTION	FINISH
PRS9BS	Radius Saddle	Brushed Stainless
PRS9PS	Radius Saddle	Polished Stainless
PFS9BS	Flat Saddle	Brushed Stainless
PFS9PS	Flat Saddle	Polished Stainless

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

180 DEGREE REPLACEMENT SADDLES

CAT. NO.	DESCRIPTION	FINISH
PRS1BS	Radius Saddle	Brushed Stainless
PRS1PS	Radius Saddle	Polished Stainless
PFS1BS	Flat Saddle	Brushed Stainless
PFS1PS	Flat Saddle	Polished Stainless

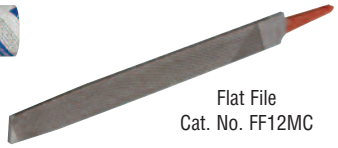
Minimum order: 1 each. All Saddles can be combined for quantity pricing.

CRL P-Series Post Top Rail Installation Kit

- **Use for Installing Top Rails on P-Series Posts**
- **Works With Universal Pressure Drill**

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 Center Punch, two Tin Coated Drill Bits, one Tube Wax, two Tin 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.

Tube Wax
Cat. No. WS140



Flat File
Cat. No. FF12MC

Center Punch
Cat. No. G78

Drill Bit Holder
Cat. No. DBH1

Tin Coated 10-32 Tap
Cat. No. T1032TC

Tap Wrench
Cat. No. TR1E

6" Quick Grip Clamps
Cat. No. 506QC

#21 Tin Coated Drill Bit
Cat. No. SLD21

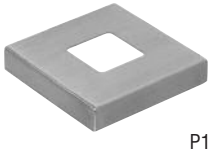
CAT. NO. PS1K

CRL Base Flange Covers for P-Series Post Kits

- **Covers Designed for the P1, P3, P5, P6, and P7 Post Kits**
- **1" (25 mm) Tall Standard Heights**
- **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.

P6/P7



P1

P3

P5

CAT. NO.	FINISH	FOR USE WITH
CR15SPCBS	Brushed Stainless	P6 and P7 Posts
CR15SPCPS	Polished Stainless	P6 and P7 Posts
CR16SPCBS	Brushed Stainless	P1 Posts
CR16SPCPS	Polished Stainless	P1 Posts
CR17SPCBS	Brushed Stainless	P3 Posts
CR17SPCPS	Polished Stainless	P3 Posts
CR18SPCBS	Brushed Stainless	P5 Posts
CR18SPCPS	Polished Stainless	P5 Posts

Minimum order: 1 each.

CRL Top Rail Connecting Screws

Flat Undercut | Phillips | Machine

- **Used for Attaching the Top Rail to P1, P4, P5, P6, P7, and P8 P-Series Post Railing Kits**
- **50 Screws Per Pack**

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're a 10-32 thread and measure 5/8" (16 mm) long. 50 screws per pack. Minimum order is one pack.

CAT. NO. PRS1032

CRL 3/8" x 4" Wedge-Bolt Anchor

- **Used With CRL P-Series Posts**
- **Meets Guard Rail Codes for Load Requirements**

These 4" (102 mm) long CRL Wedge-Bolt Anchors achieve their load capacity by the thread undercutting the base material. Up to 40 feet/pounds of torque can be applied in 4000 psi concrete to achieve maximum clamping torque to the Base Plate. Wedge-Bolt Anchors are manufactured from heat treated carbon steel, bright zinc plated with a chromate treatment. Minimum order is 50 each.

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 2003 and 2006 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.

CAT. NO. EBA334

CRL P-SERIES POST RAILING SYSTEMS

C.R. Laurence Co.

P-Post Quote/Order Request Form

Fax Completed Checklist to C.R. Laurence Technical Sales at (800) 587-7501 in the U.S., or (323) 584-5289 (Canada and International). Then call to discuss: (800) 421-6144 (U.S.), (877) 421-6144 (Canada), or (323) 588-1281 (International). Ask for Extension 7730. This form is also available online at **crlaurence.com.**

Company Name _____ Phone # _____

Contact _____ Fax # _____

Job Name _____ Date _____

When you are ready to order, utilize this form to assist you in covering the details required to complete a P-Post Railing System installation. Going through this exercise should prevent you from overlooking any details related to your installation.

IMPORTANT: Depending on the complexity of your project, one or more of the following may be required to accurately order: sketches or drawings of your particular application with dimensions; printed architectural drawings or CAD files; photos of the job site conditions (digital images are preferable). **NOTE:** Stairway applications will require additional layout drawing on page B268 that needs to be filled out at time of order. A final sign off is required prior to any custom fabrication.

RAILING HEIGHT

- ❑ 36" (914 mm)
- ❑ 42" (1067 mm)
- ❑ Other (Specify) _____

POST ATTACHMENT

- ❑ Surface Mount (Top of Substrate)
- ❑ Core Mount
- ❑ Fascia Mount
- ❑ Other (Specify) _____

OPTIONAL HAND RAIL

- ❑ 1-1/2" Diameter .050 Wall Thickness
- ❑ 1-1/2" Square .050 Wall Thickness
- ❑ 2" Diameter .050 Wall Thickness
- ❑ Other (Specify) _____
- ❑ None Required

POST STYLE

- ❑ P1 Series
- ❑ P2 Series
- ❑ P3 Series
- ❑ P4 Series
- ❑ P5 Series
- ❑ P6 Series
- ❑ P7 Series
- ❑ P8 Series
- ❑ Other (Specify) _____

TOP RAIL SIZE

- ❑ 1-1/2" Schedule 40 1.9" O.D.
- ❑ 1-1/4" Schedule 40 1.66" O.D.
- ❑ Other (Specify) _____

SUBSTRATE

- ❑ Wood
- ❑ Concrete
- ❑ Waterproof
- ❑ Steel
- ❑ Other (Specify) _____

GLASS ATTACHMENT

- ❑ RB51 Fixed Attachment Fittings
- ❑ Z-Series Clamps
- ❑ RB50 Fixed Attachment Fittings
- ❑ RB50 Swivel Attachment Fittings
- ❑ Spider Fittings
- ❑ Custom Welded Standoff Arms
- ❑ Other (Specify) _____
- ❑ None

RAILING INFILL

- ❑ 1/2" (12 mm) Glass
- ❑ 3/8" (10 mm) Glass
- ❑ 1/8" (3.1 mm) Dia. Cable
- ❑ 1/2" (12 mm) Round Bar
- ❑ Other (Specify) _____
  (Glass not supplied by CRL)

FLOOR CONDITION

- ❑ Flat
- ❑ Sloped (Degrees)

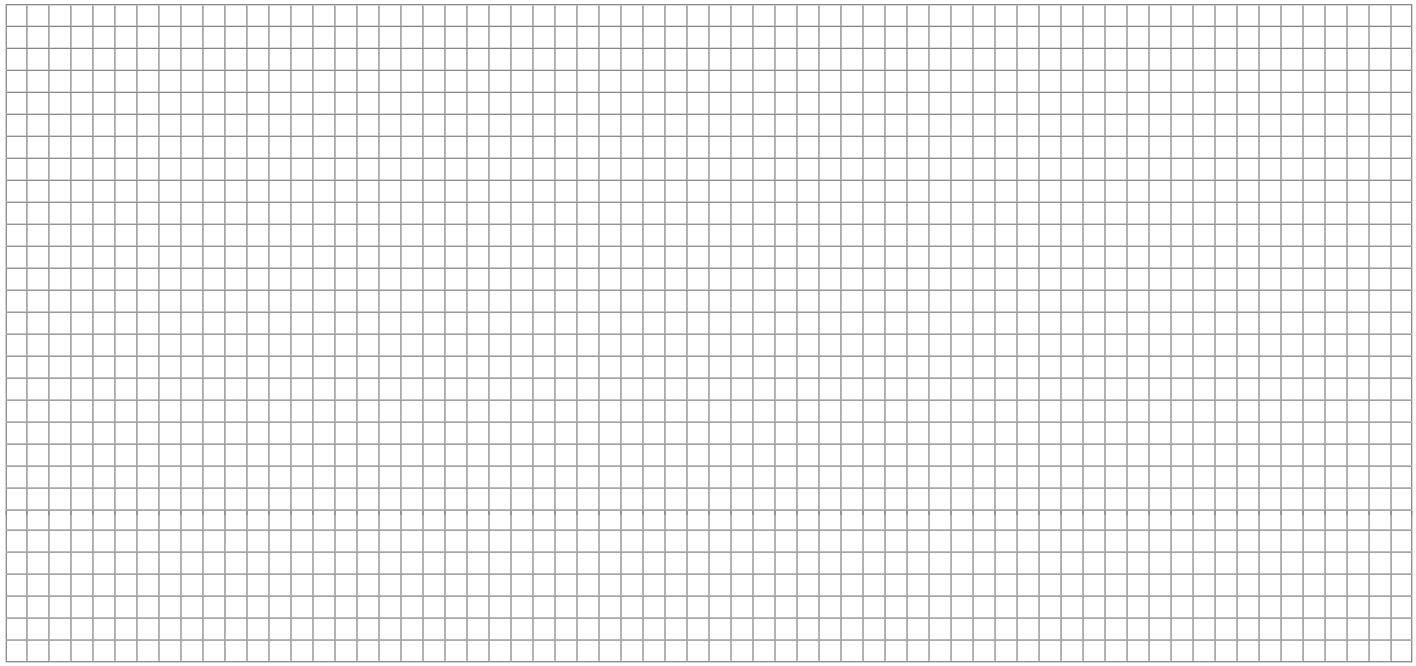
TOP RAIL END CAPS

- ❑ Applied Flat End Caps
- ❑ Welded Flat End Caps
- ❑ Welded Domed End Caps
- ❑ Other Specify _____

FINISH

- ❑ Brushed Stainless Steel
- ❑ Polished Stainless Steel
- ❑ Powder Coated
- ❑ Custom Specify _____

LAYOUT GRID TO SKETCH DESIGN



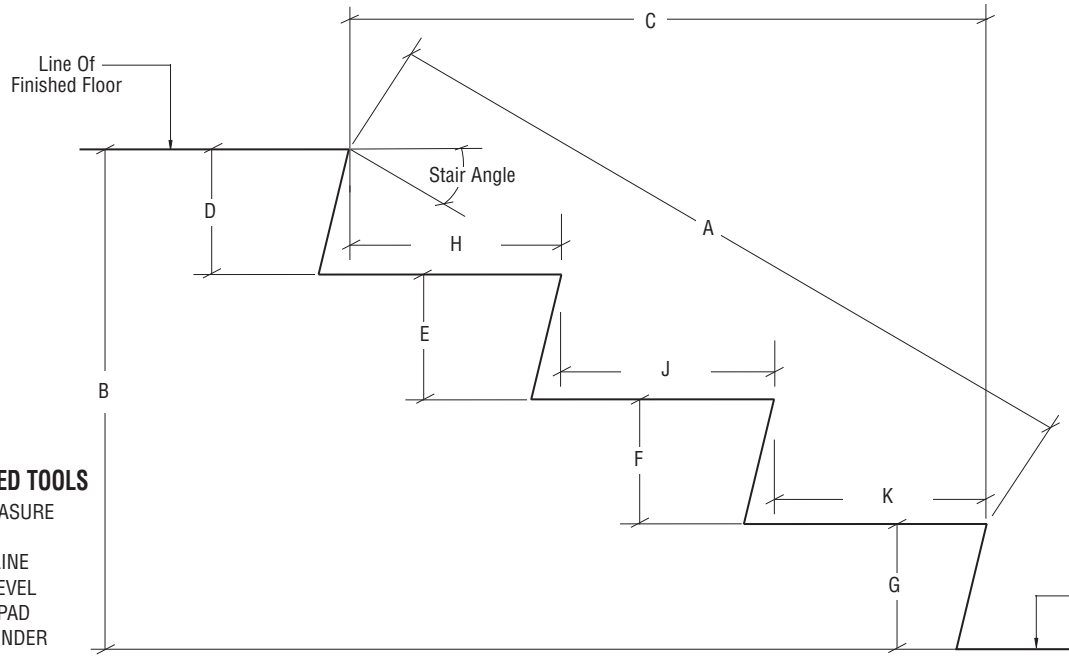
Practice Methods for Measuring Stairways

When measuring an existing stairway for fabricated railings please keep in mind the importance of every measurement that is needed to produce the required railing system. Measure every dimension that is indicated below to ensure your railing system is produced correctly.

Style #1

Measuring Short Run Stairways (4 or Fewer Treads)
Dimensions Needed for Tread Mounted Post Rail System

Important: Depending on the complexity of your project, one or more of the following may be required to accurately order: sketches or drawings of your particular application with dimensions; printed architectural drawings or cad files; photos of the job site conditions (digital images are preferable).



REQUIRED TOOLS

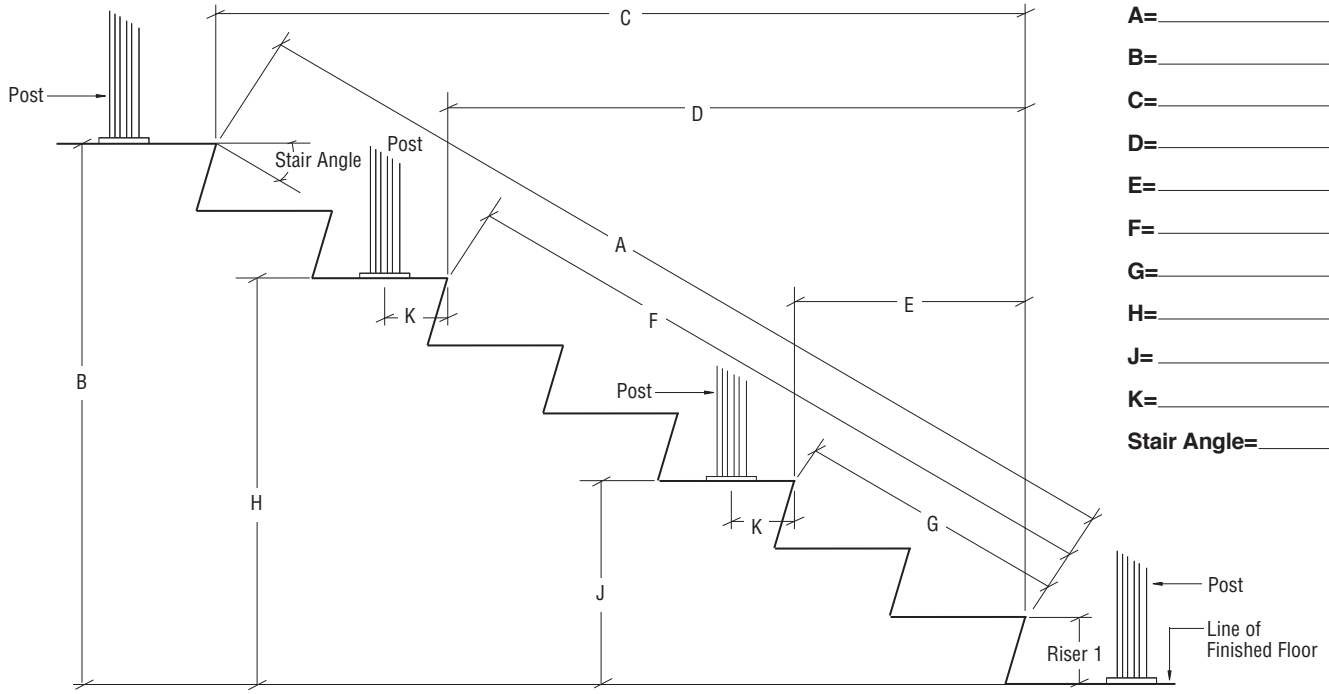
TAPE MEASURE
SQUARE
PLUMB LINE
LASER LEVEL
SKETCH PAD
ANGLE FINDER

Field Measure and Specify Each Required Dimension From the Key Below.

A=_____
B=_____
C=_____
D=_____
E=_____
F=_____
G=_____
H=_____
J=_____
K=_____
Stair Angle=_____

Style #2

Measuring Long Run Stairways (5 or More Treads)
Dimensions Needed for Tread Mounted Post Rail System



Field Measure and Specify Each Required Dimension From the Key Below.

A=_____
B=_____
C=_____
D=_____
E=_____
F=_____
G=_____
H=_____
J=_____
K=_____
Stair Angle=_____

CRL Glass Railing Spider Fittings

Use Only TEMPERED GLASS

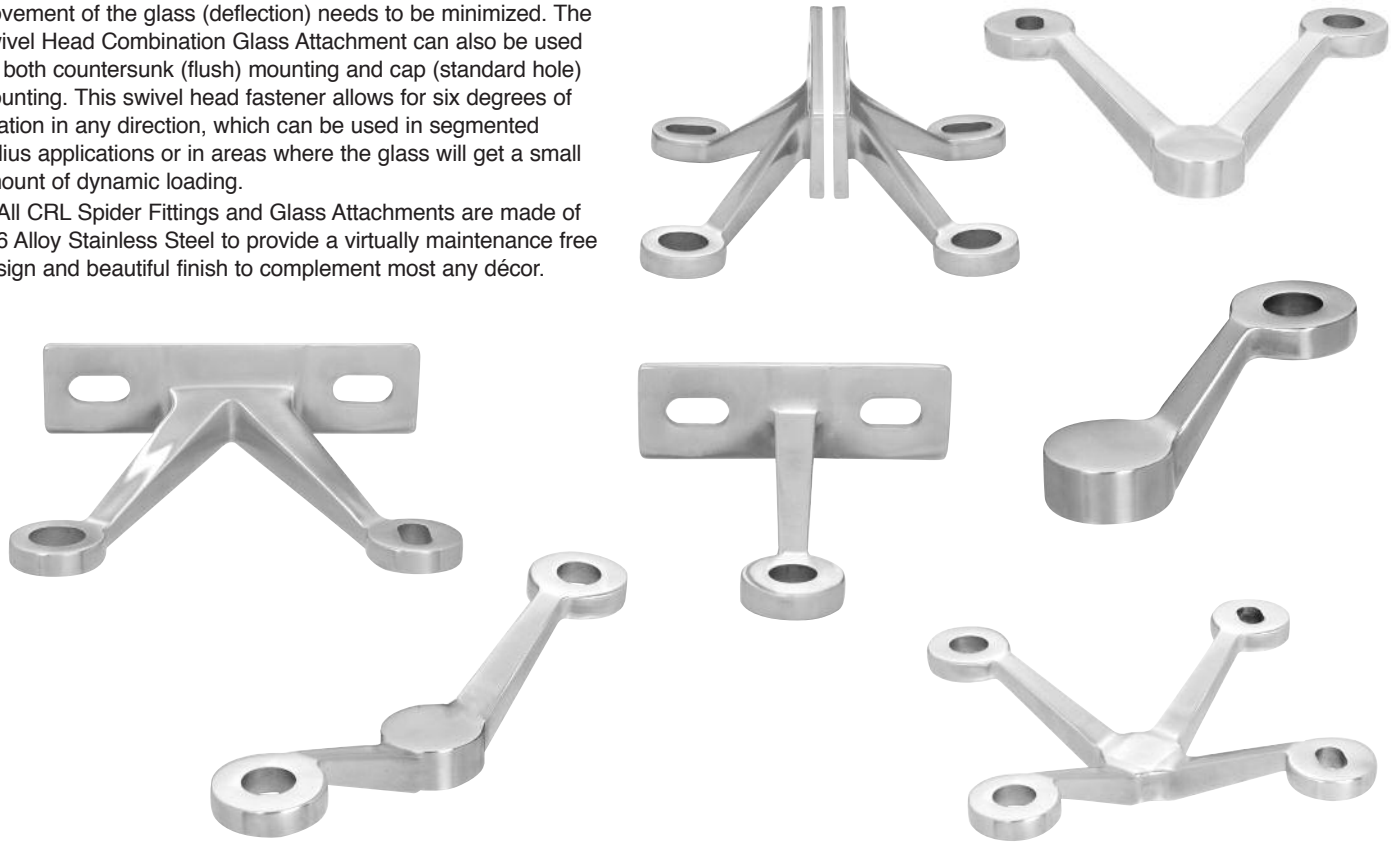
- Spiders for Mounting to Posts, Walls or Fins
- Reduced in Size for Interior Dividers, Displays, and Hand Railing Applications
- For Use With 3/8" or 1/2" (10 or 12 mm) Tempered Glass
- Designed for the 'All-Glass' Look
- Rigid or Swivel Countersunk or Cap Glass Attachments Available
- Made of 316 Alloy Stainless Steel in Two Attractive Finishes: Brushed and Polished

We have expanded our line of Glass Railing Spider 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 page B270) 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 rigid head 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 swivel head 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.

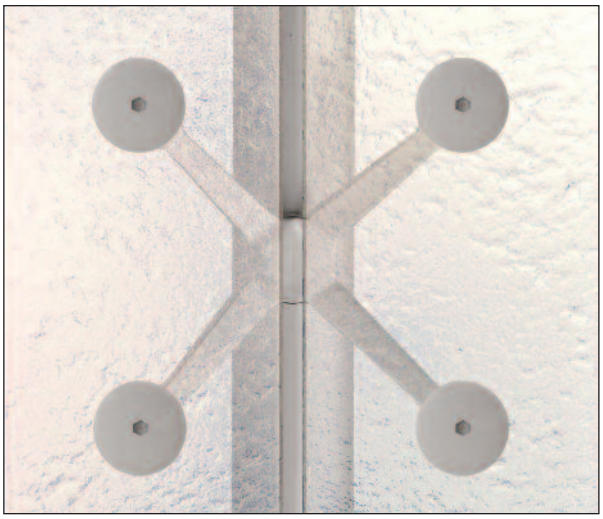
All CRL Spider Fittings and Glass Attachments are made of 316 Alloy Stainless Steel to provide a virtually maintenance free design and beautiful finish to complement most any décor.

Only a Sample of Our Extensive Line…



CRL GLASS RAILING SPIDER FITTINGS

For Pricing Visit Our Web Site or Call Us Toll Free
at the Phone Numbers Shown on the Back Cover



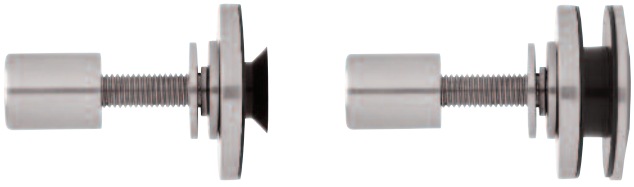
NOTE: Either the Rigid Head or Swivel Head Combination Glass Attachments below can be used with all of our Glass Railing Spider Fittings.

CRL Rigid Head Combination Glass Attachment

Use Only TEMPERED GLASS

The 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.

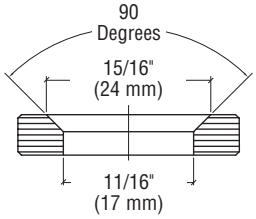
One Fitting for Either Flush or Surface Mount Installations



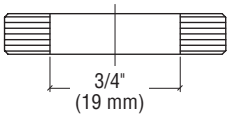
Flush Mount
(Countersunk hole in glass)

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.



Flush mount glass fabrication *



Cap mount glass fabrication

CAT. NO.	FINISH
RRF10BS	Brushed Stainless
RRF10PS	Polished Stainless

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

* 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.

CRL Swivel Head Combination Glass Attachment

Use Only TEMPERED GLASS

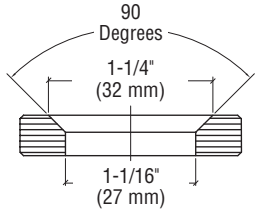
The head of the Swivel Glass Attachment can tilt up to 6 degrees in any direction on its ball and socket joint. This allows for any stress applied to the glass to be more evenly distributed across the entire panel of glass rather than concentrating at the hole. These are typically used in conditions where the glass will be subject to live loads.

One Fitting for Either Flush or Surface Mount Installations

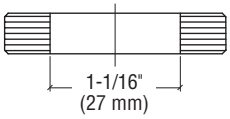
Flush Mount
(Countersunk hole in glass)

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.



Flush mount glass fabrication *



Cap mount glass fabrication

CAT. NO.	FINISH
RSF10BS	Brushed Stainless
RSF10PS	Polished Stainless

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

* 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.

CRL GLASS RAILING SPIDER FITTINGS

CRL Replacement Gasket Set for Rigid Glass Attachment

Replacement Gasket Set includes parts required for Countersunk or Surface Mount Attachments. Minimum order is one each.

CAT. NO.	FINISH
RRF10RW	Black Plastic

CRL Replacement Gasket Set for Swivel Glass Attachment

Replacement Gasket Set includes parts required for Countersunk or Surface Mount Attachments. Minimum order is one each.

CAT. NO.	FINISH
RSF10RW	Black Plastic

CRL Replacement Stud Set for Post Mounted Spider Fittings

Replacement Stud Set includes parts required for Post Mounted Spider Fittings. Minimum order is one each.

CAT. NO.	FINISH
M14SET	Stainless Steel

CRL Replacement Stud Set for Fin Mounted Spider Fittings

Replacement Stud Set includes parts required for Fin Mounted Spider Fittings. Minimum order is one each.

CAT. NO.	FINISH
M10SETBS	Brushed Stainless
M10SETPS	Polished Stainless

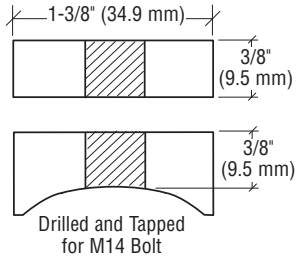
CRL Post Adapters

- **Designed for Round or Flat Posts**
- **3/8" (9.5 mm) Deep Threaded Hole to Provide for Proper Attachment Requirements for 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

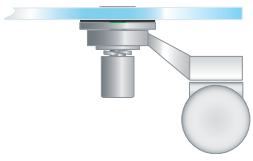
Minimum order: 1 each. * For use with 1-1/2" (38.1 mm) to 2" (50.8 mm) outside diameter posts.



CRL Single Arm Post Mount Fitting

- **Compact Design for Minimal Obstruction**
- **Complete With Hardware to Mount to Post**

Use Only TEMPERED GLASS



This Post Mount Fitting is used to attach a single glass panel to a structural end post. Comes with two types of attachment hardware: a M14-2 x 101 mm (4") threaded stud with three matching nuts and washers; a M14-2 x 30.2 mm (1-3/16") stainless steel threaded stud for use with CRL Post Adapters shown above.

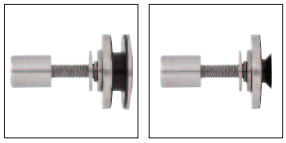
For companion fitting use Cat. No. GRP2BS or GRP2PS Fittings.

CAT. NO.	FINISH
GRP1BS	Brushed Stainless
GRP1PS	Polished Stainless

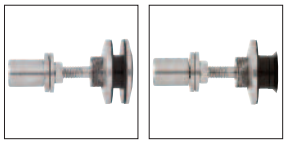
Minimum order: 1 each. All Spider Fittings can be combined for quantity pricing.

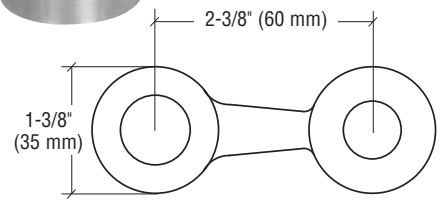
Glass Attachments Below Must Be Ordered Separately (see page B270)

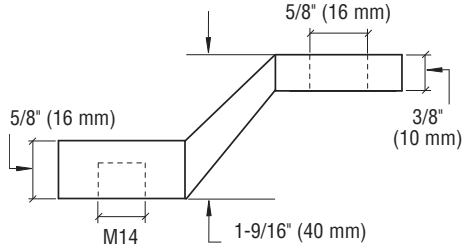
Rigid Type



Swivel Type







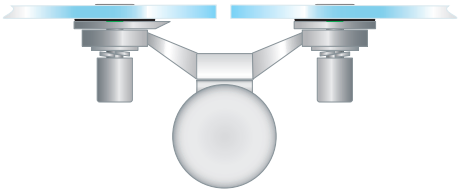
CRL GLASS RAILING SPIDER FITTINGS

CRL Double Arm Post Mount Fitting

- **Compact Design for Minimal Obstruction**
- **Complete With Hardware to Mount to Post**

This Post Mount Fitting is used to attach two inline glass panels to a structural center post. Comes with two types of attachment hardware: a M14-2 x 101.6 mm (4") stainless steel threaded stud with three matching nuts and washers; a M14-2 x 30.2 mm (1-3/16") stainless steel threaded stud for use with CRL Post Adapters shown on page B271. See B271 for a Replacement Stud Set.

For a companion fitting use Cat. No. GRP1BS or GRP1PS Fittings.

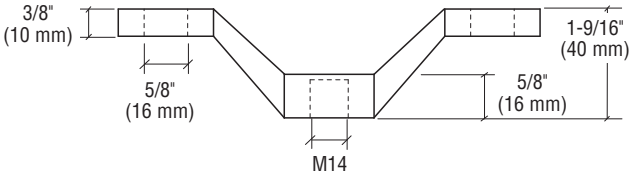


CAT. NO.	FINISH
GRP2BS	Brushed Stainless
GRP2PS	Polished Stainless

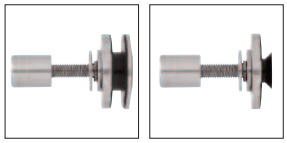
Minimum order: 1 each. All Spider Fittings can be combined for quantity pricing.

Use Only TEMPERED GLASS

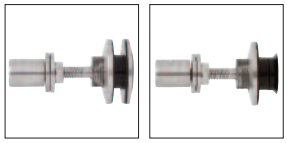
Glass Attachments Below Must Be Ordered Separately (see page B270)

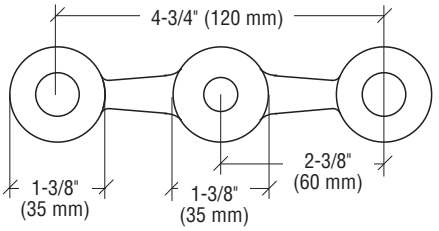


Rigid Type



Swivel Type



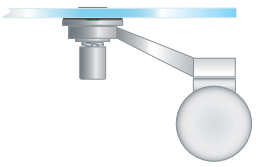


CRL Single Long Arm Post Mount Fitting

- **Longer Arm to Match "V" Fitting Arms**
- **Complete With Hardware to Mount to Post**

This Post Mount Fitting is used to attach a single glass panel to a structural end post. Comes with two types of attachment hardware: a M14-2 x 101.6 mm (4") stainless steel threaded stud with three matching nuts and washers; a M14-2 x 30.2 mm (1-3/16") stainless steel threaded stud for use with CRL Post Adapters shown on page B271. See page B271 for a Replacement Stud Set.

For a companion fitting use Cat. No. GRP2VBS, GRP2VPS, GRP4BS, or GRP4PS Fittings.

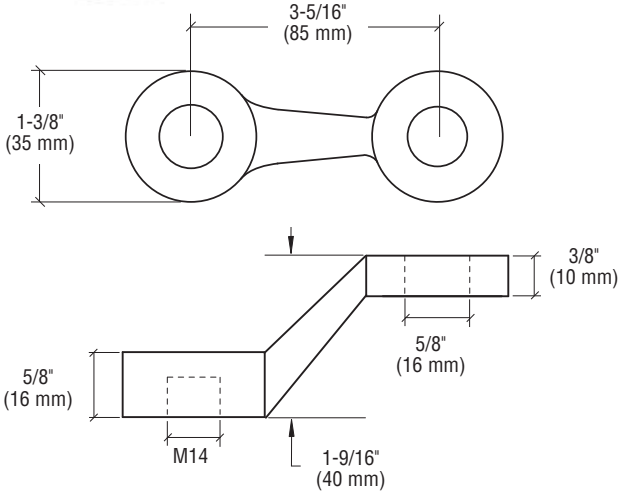


CAT. NO.	FINISH
GRP1LBS	Brushed Stainless
GRP1LPS	Polished Stainless

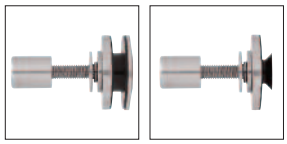
Minimum order: 1 each. All Spider Fittings can be combined for quantity pricing.

Use Only TEMPERED GLASS

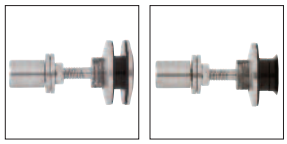
Glass Attachments Below Must Be Ordered Separately (see page B270)



Rigid Type



Swivel Type



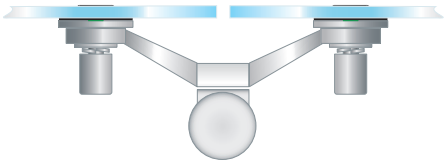
CRL GLASS RAILING SPIDER FITTINGS

CRL Double Arm "V" Post Mount Fitting

- Classic "V" Look
- Complete With Hardware to Mount to Post

This 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 two types of attachment hardware: a M14-2 x 101.6 mm (4") stainless steel threaded stud with three matching nuts and washers; a M14-2 x 30.2 mm (1-3/16") stainless steel threaded stud for use with CRL Post Adapters shown on page B271. See page B271 for a Replacement Stud Set.

For companion fitting use Cat. No. GRP1LBS or GRP1LPS Fittings.



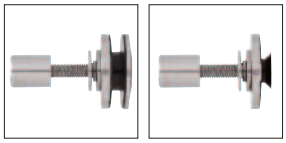
CAT. NO.	FINISH
GRP2VBS	Brushed Stainless
GRP2VPS	Polished Stainless

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

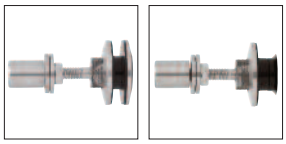
Use Only TEMPERED GLASS

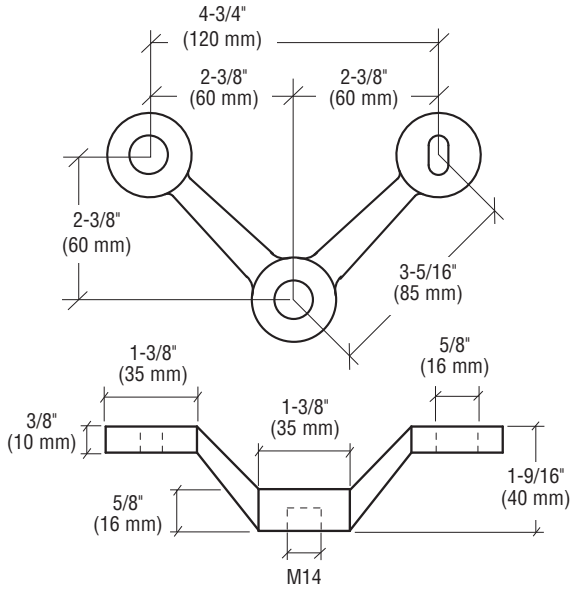
Glass Attachments Below Must Be Ordered Separately (see page B270)

Rigid Type



Swivel Type



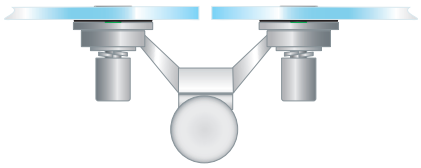


CRL Four Arm "V" Post Mount Fitting

- Classic "V" Look
- Complete With Hardware to Mount to Post

This Post Fitting is used to attach two inline glass panels to a structural center post. Comes with two types of attachment hardware: a M14-2 x 101.6 mm (4") stainless steel threaded stud with three matching nuts and washers; a M14-2 x 30.2 mm (1-3/16") stainless steel threaded stud for use with CRL Post Adapters shown on page B271. See page B271 for a Replacement Stud Set.

For companion fitting use Cat. No. GRP2VBS or GRP2VPS Fittings.



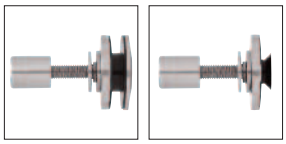
CAT. NO.	FINISH
GRP4BS	Brushed Stainless
GRP4PS	Polished Stainless

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

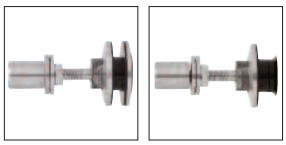
Use Only TEMPERED GLASS

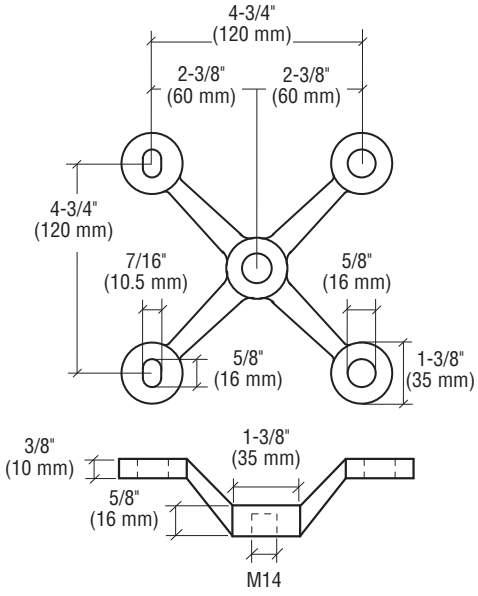
Glass Attachments Below Must Be Ordered Separately (see page B270)

Rigid Type



Swivel Type





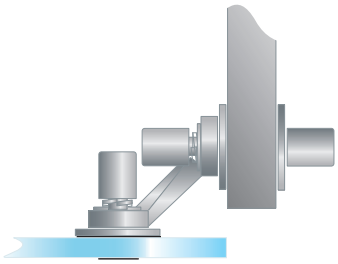
CRL GLASS RAILING SPIDER FITTINGS

CRL Single Arm Wall/Fin Mount Fitting

- **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 B271 for a Replacement Stud Set.

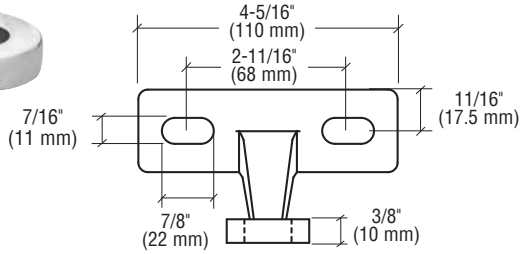
For companion fitting use Cat. No. GRF2BS or GRF2PS Fittings.



CAT. NO.	FINISH
GRF1BS	Brushed Stainless
GRF1PS	Polished Stainless

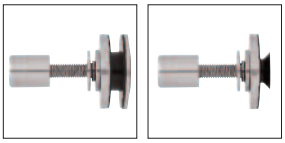
Minimum order: 1 each. All Spider Fittings can be combined for quantity pricing.

Use Only TEMPERED GLASS

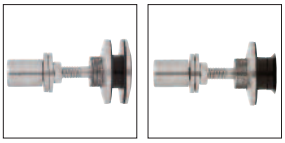


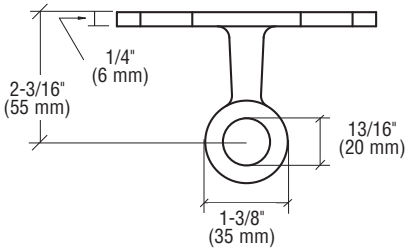
Glass Attachments Below Must Be Ordered Separately (see page B270)

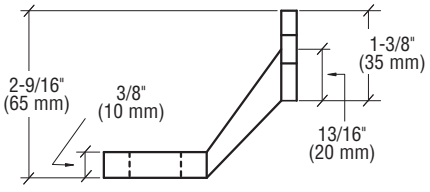
Rigid Type



Swivel Type





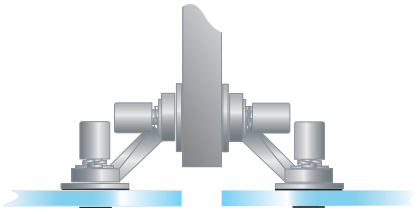


CRL Double Arm Wall/Fin Mount Fitting

- **Compact Design for Minimal Obstruction**
- **Complete With Hardware to Mount to Wall or Structural Fin**

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 B271 for a Replacement Stud Set.

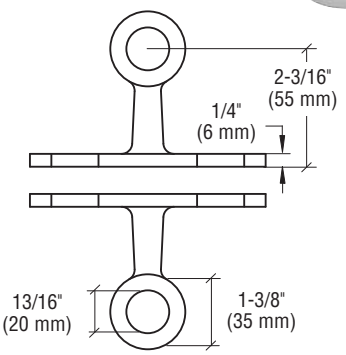
For a companion fitting use Cat. No. GRF1BS or GRF1PS Fittings.



CAT. NO.	FINISH
GRF2BS	Brushed Stainless
GRF2PS	Polished Stainless

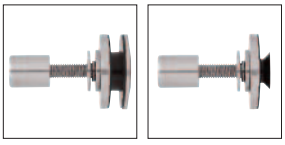
Minimum order: 1 each. All Spider Fittings can be combined for quantity pricing.

Use Only TEMPERED GLASS

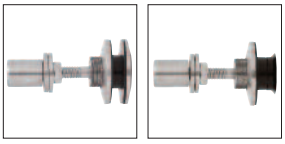


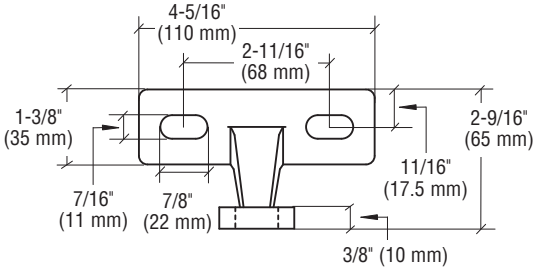
Glass Attachments Below Must Be Ordered Separately (see page B270)

Rigid Type



Swivel Type



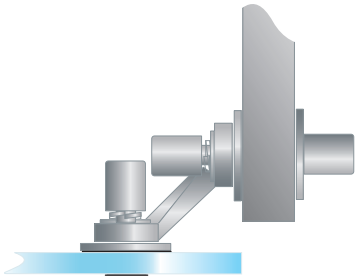


CRL Double Arm "V" Wall/Fin Mount Fitting

- Classic "V" Look
- 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 B271 for a Replacement Stud Set.

For companion fitting use Cat. No. GRF4BS or GRF4PS Fittings.



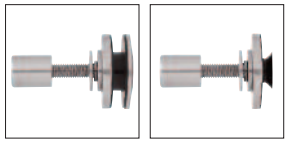
CAT. NO.	FINISH
GRF2VBS	Brushed Stainless
GRF2VPS	Polished Stainless

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

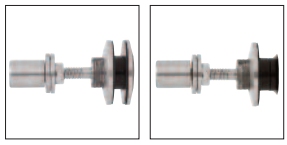
Use Only TEMPERED GLASS

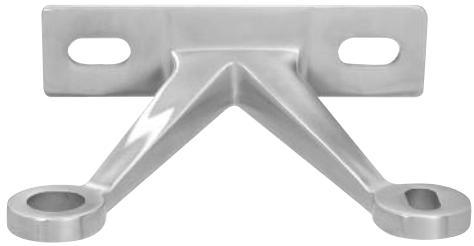
Glass Attachments Below Must Be Ordered Separately (see page B270)

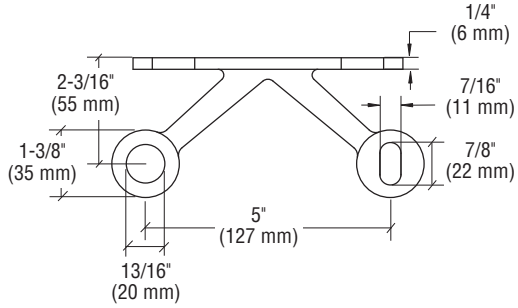
Rigid Type

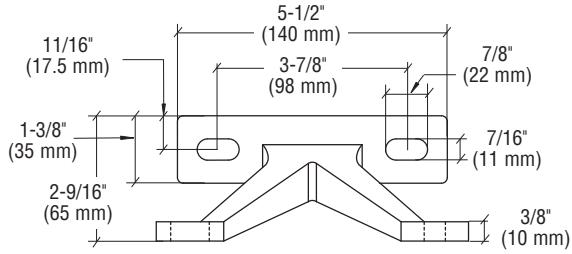


Swivel Type







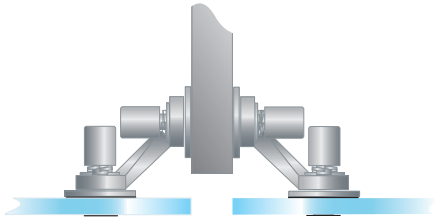


CRL Four Arm "V" Wall/Fin Mount Fitting

- Classic "V" Look
- Complete With Hardware to Mount to Wall or Structural Fin

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 B271 for a Replacement Stud Set.

For companion fitting use Cat. No. GRF2VBS or GRF2VPS Fittings.



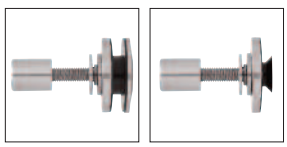
CAT. NO.	FINISH
GRF4BS	Brushed Stainless
GRF4PS	Polished Stainless

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

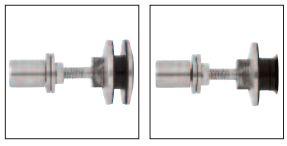
Use Only TEMPERED GLASS

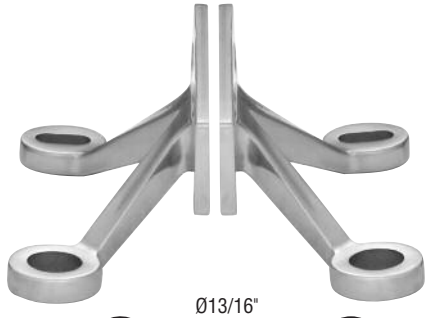
Glass Attachments Below Must Be Ordered Separately (see page B270)

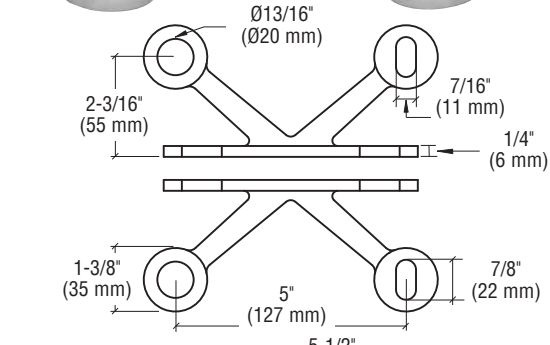
Rigid Type

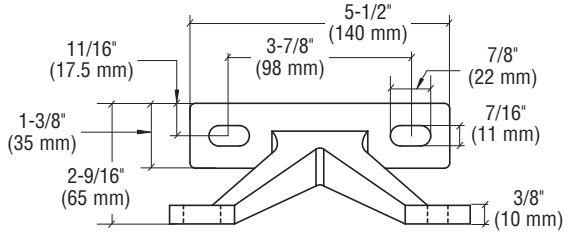


Swivel Type





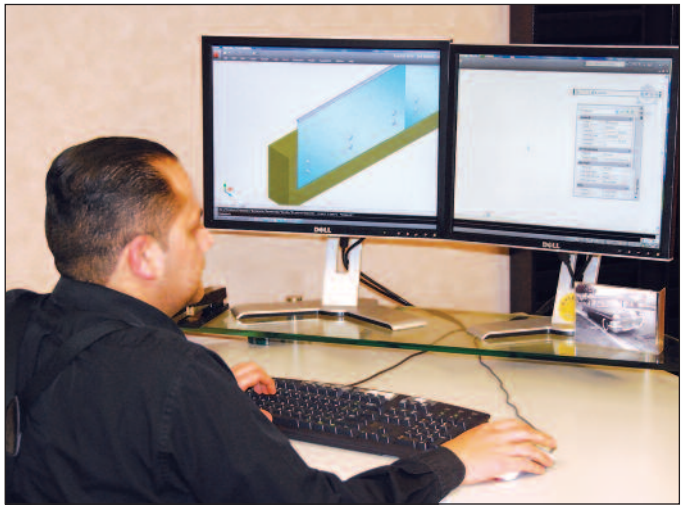




CRL General Information and Technical Advice

The first step in designing any façade that uses Spider Fittings is to discuss the general design. Our Technical Sales Representatives will be glad to go over the job requirements with you to gather enough information to quote the job. Basic information is needed to determine which fittings are required, such as, what the Spider Fittings attach to (column, beam or glass fin), wind loads, and glass type. Based on your initial information, the Technical Sales Representative will put together a preliminary quote. **NOTE**: All building departments will require structural approval, and any changes required may affect the quote and should be submitted for review.

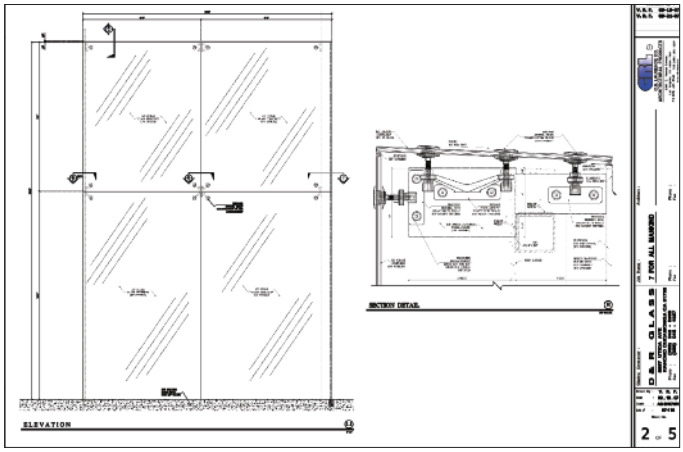
CRL Railing Technical Sales can be reached Monday through Friday from 6:00 am to 5:00 pm Pacific Time. Phone toll free (800) 421-6144 from anywhere in the U.S., (877) 421-6144 from anywhere in Canada, or (323) 588-1281 International, and ask for Ext. 7730. You can also send e-mail requests for quotes or product information from the **crlaurence.com** home page. Click on Contact Us, and then click on Technical Sales for Railing Products.



CRL Technical Drawings

The next step in the process is to create technical drawings and submit all the information required by the structural engineer to evaluate the system so that the customer and architect will approve it. Our dedicated Computer Aided Drafting (CAD) Department will create shop drawings that show the façade design, number and type of Spider Fittings, along with the glass attachment choice. Doors and other façade variants will also be shown along with specifications on the drawings.

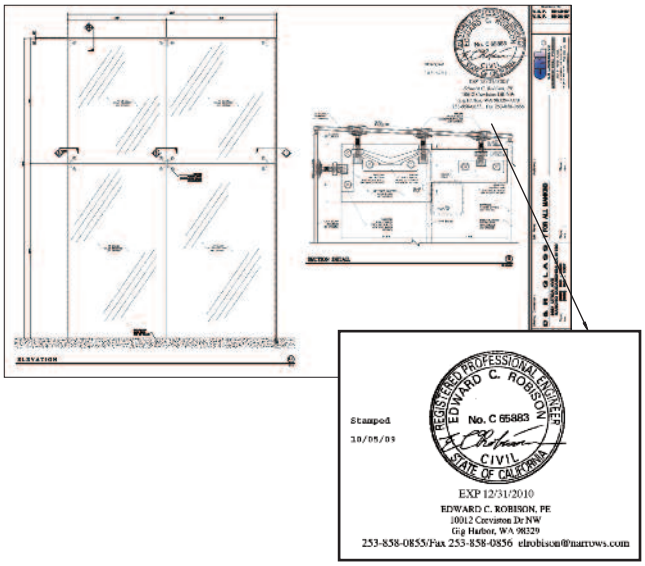
CRL provides this design and layout phase at a reasonable price to our customers when accompanied with a purchase order for the system. You can use your own structural engineer, or CRL can recommend one that has previously worked with this product line to assist you.



CRL Calculations and Structural Engineering

The final step in the process is to get a structural engineer's approval and supporting calculations on a stamped set of drawings. **NOTE:** The structural engineer must be licensed in the state that the job is being completed. Critical weather conditions, such as hurricanes, might result in additional support being required (such as tension rods or cable tensioning) to meet the local building requirements. Unfortunately, unforeseen issues that are discovered during the engineering phase may require revised or additional shop drawings and may also affect the original quotation. Because of the critical nature of a Spider Fitting façade, the more detailed information acquired during the first step of the process will help to avoid costly additions later.

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 e-mail requests for quotes or product information from the **crlaurence.com** home page. Click on Contact Us, and then click on Technical Sales for Railing Products.



CRL SPIDER FITTINGS

A Large Stock Selection of Tested Spider Fittings for Every Type of Installation

- **Heavy-Duty Spiders, Regular Duty Spiders, and Mini Spiders Available**
- **Designed for the 'All-Glass' Look**
- **Made of 316 Alloy Stainless Steel**
- **For Mounting to Posts, Walls, and Column Fins**
- **Use Mini Spiders for Hand Rails, Guard Rails, and Awnings**

All Glass Façades can be accomplished by using our stock Spider Fittings. The Spiders can be attached to vertical columns, vertical "I" beams, or vertical glass fins, giving the façade a look of glass sheets floating in space with no vertical or horizontal metal. The Spider Fittings themselves are beautifully finished in brushed or polished stainless steel that has been structurally tested to carry the panel weight and handle the wind load of the region. We have glass attachment fittings in fixed or swivel configurations in both flush or cap styles. The fittings and glass attachments come in regular duty and heavy-duty models that are tested and certified to meet your installation needs. Our personnel will guide you through the design and quotation process, and can also provide you with calculated and certified drawings, stamped by a licensed engineer. For assistance contact our Railing Technical Sales Department at (800) 421-6144 in the U.S., (877) 421-6144 from Canada, or (323) 588-1281 International, and ask for Extension 7730. You can also send e-mail from the home page of our web site. Click on Contact Us, and then click on Technical Sales for Railing Products.

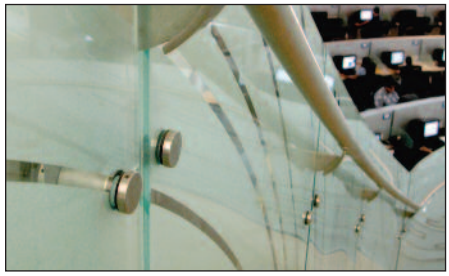
Insite Design & Development

CRL Column and Glass Fin Supported Systems

In a Column Supported System, vertical columns are designed to support the weight of the glass wall that is attached with Spider Fittings.

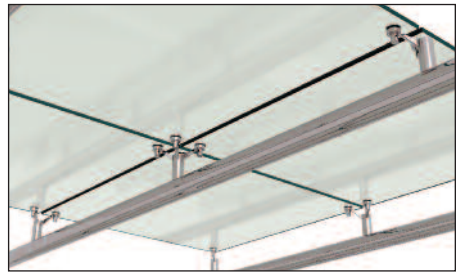
In a Glass Fin Supported System, vertical heavy glass fins are placed at 90 degrees to the glass wall. The Spider Fittings attach to both the fin and the glass wall.

CRL Spider Fittings for Hand Rails, Guard Rails, and Awnings



Spider Fittings are often attached to a vertical post for hand railing applications.

Mini Spider Fittings can be modified for custom guard rail installations.



Heavy-Duty Spider Fittings attached to the top of engineered beams to create a glass awning.

CRL GLASS CLAMP POST SYSTEMS

CRL Glass Clamp Post Kits
(Not Designed for Guard Rail Applications)

- Square or Round Z-Series Glass Clamps
- Ready to Install for Both Commercial and Residential Applications
- Designed to Accept 1/2" (12 mm) Tempered Glass
- Standard Post Heights Are 36" (914 mm) and 42" (1067 mm)
- Custom Post Heights Also Available
- Two Standard Stainless Finishes
- Custom Powder Paint Finishes Also Available

MANUFACTURED IN THE USA BY C.R. LAURENCE
An ISO9001:2008 Certified Company

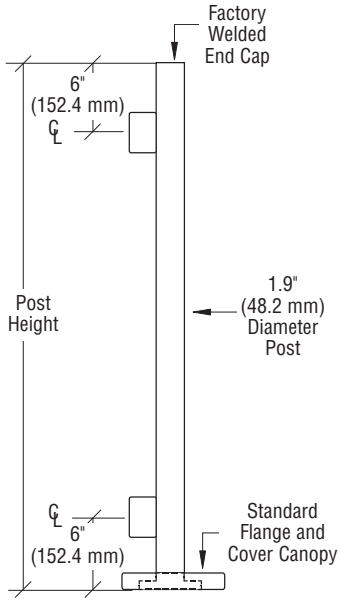
Use Only TEMPERED GLASS

End Post Kit | 180 Degree Center Post Kit | 135 Degree Center Post Kit | 90 Degree Corner Post Kit

Connected to Post Using CAT. NO. ZBOLT 5/16"-18 Thread

Round Clamp

Square Clamp



CRL's Glass Clamp Post Kits are manufactured from Schedule 40 1.9" (48.2 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 factory attached to the Post. **NOTE:** CRL's Glass Clamp Post Kits are not designed for guard rail or hand rail applications.

END POST KITS

36" HEIGHT CAT. NO.	42" HEIGHT CAT. NO.	CLAMP TYPE	FINISH
PR36EBS	PR42EBS	Round	Brushed Stainless
PS36EBS	PS42EBS	Square	Brushed Stainless
PR36EPS	PR42EPS	Round	Polished Stainless
PS36EPS	PS42EPS	Square	Polished Stainless

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

180 DEGREE CENTER POST KITS

36" HEIGHT CAT. NO.	42" HEIGHT CAT. NO.	CLAMP TYPE	FINISH
PR36CBS	PR42CBS	Round	Brushed Stainless
PS36CBS	PS42CBS	Square	Brushed Stainless
PR36CPS	PR42CPS	Round	Polished Stainless
PS36CPS	PS42CPS	Square	Polished Stainless

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

90 DEGREE CORNER POST KITS

36" HEIGHT CAT. NO.	42" HEIGHT CAT. NO.	CLAMP TYPE	FINISH
PR36LBS	PR42LBS	Round	Brushed Stainless
PS36LBS	PS42LBS	Square	Brushed Stainless
PR36LPS	PR42LPS	Round	Polished Stainless
PS36LPS	PS42LPS	Square	Polished Stainless

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

135 DEGREE CENTER POST KITS

36" HEIGHT CAT. NO.	42" HEIGHT CAT. NO.	CLAMP TYPE	FINISH
PR36ABS	PR42ABS	Round	Brushed Stainless
PS36ABS	PS42ABS	Square	Brushed Stainless
PR36APS	PR42APS	Round	Polished Stainless
PS36APS	PS42APS	Square	Polished Stainless

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

CRL Mini Z-Series Round Type Radius Base Glass Clamps

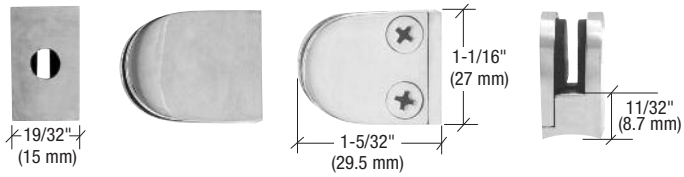
Use Only TEMPERED GLASS

For 1/4" (6 mm) Glass

- Stainless Steel in Two Finishes

- Ideal for Small Glass Barriers
- Fits 1" (25 mm) Diameter Tubing
- No Hole Drilling; Pressure Fit

CAT. NO. SHCS10X34
Fastener For Use
With Metal Posts



Base View | Front View | Rear View | Side View

CAT. NO.	FINISH	TUBE DIA.	BASE METAL
ZMR06PS	Polished Stainless	1" (25 mm)	Stainless Steel
ZMR06SS	Satin Stainless	1" (25 mm)	Stainless Steel

Minimum order: 1 each. All Z-Series Clamps can be combined for quantity pricing.

CRL Mini Z-Series Round Type Flat Base Glass Clamps

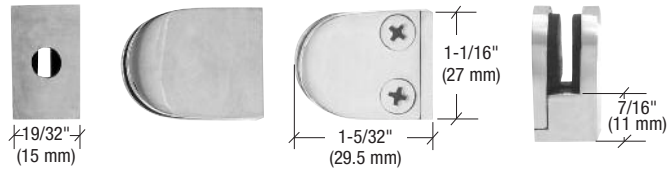
Use Only TEMPERED GLASS

For 1/4" (6 mm) Glass

- Stainless Steel in Two Finishes

- Ideal for Small Glass Barriers
- For Mounting to Flat Surfaces
- No Hole Drilling; Pressure Fit

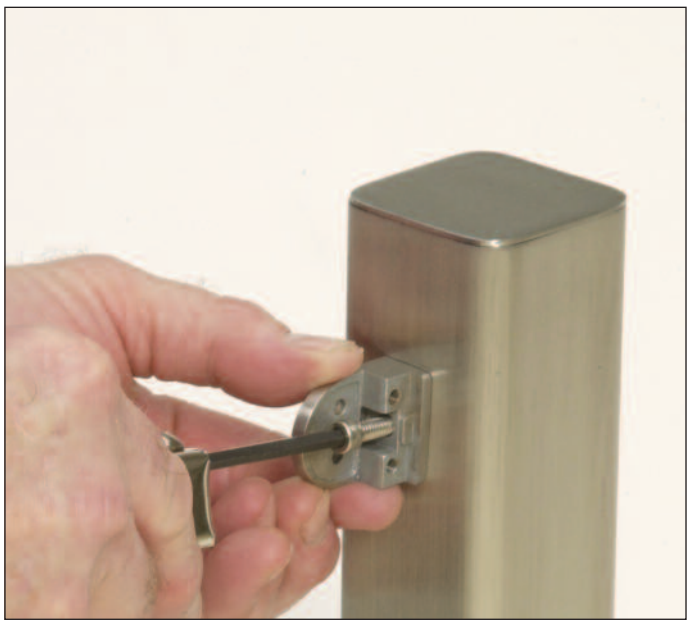
CAT. NO. SHCS10X34
Fastener For Use
With Metal Posts



Base View | Front View | Rear View | Side View

CAT. NO.	FINISH	BASE METAL
ZMF06PS	Polished Stainless	Stainless Steel
ZMF06SS	Satin Stainless	Stainless Steel

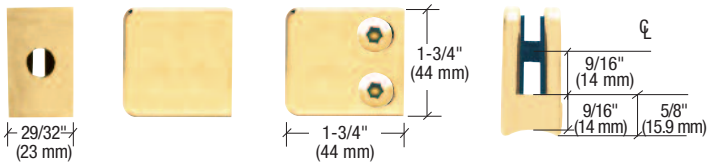
Minimum order: 1 each. All Z-Series Clamps can be combined for quantity pricing.



CRL GLASS CLAMPS

CRL Z-Series Small Square Glass Clamps

For 1/4" (6 mm) to 5/16" (8 mm) Glass



Base View Front View Rear View Side View

Glass Fabrication: 1/2" (12 mm) Diameter Hole Required if Using Provided Steel Pin

- **May be Used on Wood or Metal Radius or Flat Surfaces**

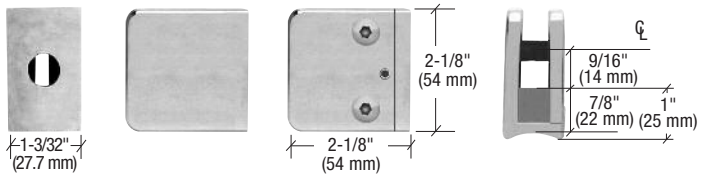
Attachment Hardware: Wood - use Cat. No. ZLAG Lag Bolt
Metal - use Cat. Nos. ZB0LT and ZRNUT Bolt and Riv-Nut

CAT. NO.	FINISH	BASE METAL
Z130BR	Brass	Zinc Casting
Z130CH	Chrome	Zinc Casting
Z130SC	Satin Chrome	Zinc Casting
Z130BN	Brushed Nickel	Zinc Casting
Z130GP	Gold Plated	Zinc Casting
Z130W	White	Zinc Casting
Z150PS	Polished Stainless	Stainless Steel
Z150SS	Satin Stainless	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



Base View Front View Rear View Side View

Glass Fabrication: 1/2" (12 mm) Diameter Hole Required if Using Provided Steel Pin

- **May be Used on Wood or Metal Radius or Flat Surfaces**

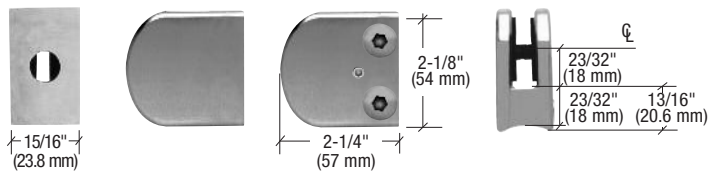
Attachment Hardware: Wood - use Cat. No. 12X2PHPSMS Screw
Metal - use Cat. Nos. ZB0LT14 and RN1420 Bolt and Riv-Nut

CAT. NO.	FINISH	BASE METAL
Z135BR	Brass	Zinc Casting
Z135CH	Chrome	Zinc Casting
Z135SC	Satin Chrome	Zinc Casting
Z135BN	Brushed Nickel	Zinc Casting
Z135GP	Gold Plated	Zinc Casting
Z135W	White	Zinc Casting
Z155PS	Polished Stainless	Stainless Steel
Z155SS	Satin Stainless	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



Base View Front View Rear View Side View

Glass Fabrication: 1/2" (12 mm) Diameter Hole Required if Using Provided Steel Pin

- **May be Used on Wood or Metal Radius or Flat Surfaces**

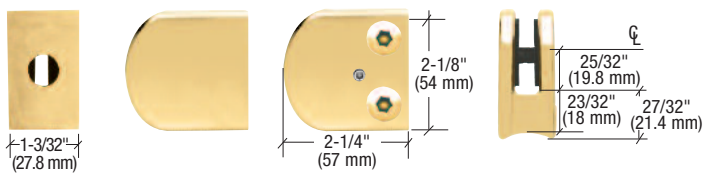
Attachment Hardware: Wood - use Cat. No. 12X2PHPSMS Screw
Metal - use Cat. Nos. ZB0LT14 and RN1420 Bolt and Riv-Nut

CAT. NO.	FINISH	BASE METAL
Z106BR	Brass	Zinc Casting
Z106CH	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



Base View Front View Rear View Side View

Glass Fabrication: 1/2" (12 mm) Diameter Hole Required if Using Provided Steel Pin

- **May be Used on Wood or Metal Radius or Flat Surfaces**

Attachment Hardware: Wood - use Cat. No. 12X2PHPSMS Screw
Metal - use Cat. Nos. ZB0LT14 and RN1420 Bolt and Riv-Nut

CAT. NO.	FINISH	BASE METAL
Z110BR	Brass	Zinc Casting
Z110CH	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.

CRL Z-Series Round Type Radius Base Glass Clamps

Use Only TEMPERED GLASS

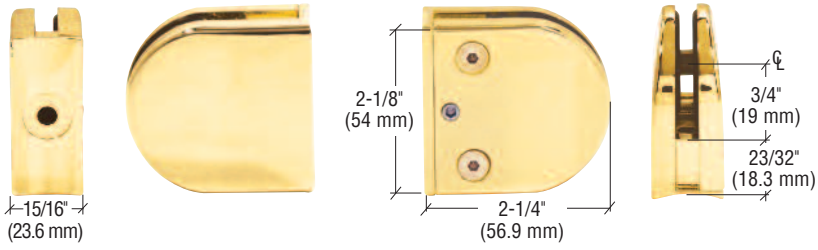
SPECIFICATIONS:
Glass Thicknesses: Models for 1/4" to 1/2" (6 to 12 mm).
Base Design: Radius.
For Use With: 1-1/2" or 2" (38.1 or 50.8 mm) Diameter Round Tubing.
Material: Choice of Zinc Constructed or Stainless Steel. Stainless Steel or Powder Painted Zinc Clamps are recommended for more durability in exterior applications.
Glass Fabrication:
For 1/4" (6 mm), 5/16" (8 mm), and 3/8" (10 mm) Thick Glass: 1/2" (12 mm) diameter hole required if using provided steel pin for glass support.
For 1/2" (12 mm) Thick Glass: 9/16" (14 mm) diameter hole required if using provided steel pin for glass support.
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

Models for Round Tubing Installations

For 1/4" (6 mm) and 5/16" (8 mm) Glass

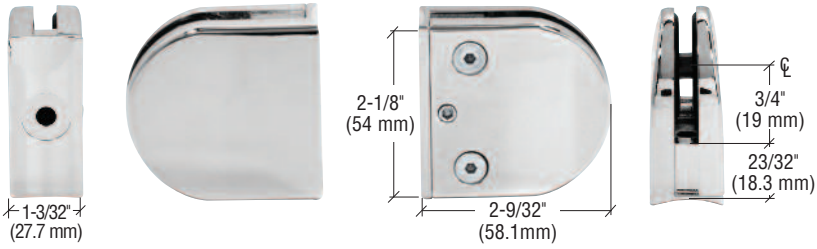


Base View | Front View | Rear View | Side View

CAT. NO.	FINISH	TUBE DIA.	BASE METAL
Z206BR	Brass	2" (50.8 mm)	Zinc Casting
Z206CH	Chrome	2" (50.8 mm)	Zinc Casting
Z206SC	Satin Chrome	2" (50.8 mm)	Zinc Casting
Z206BN	Brushed Nickel	2" (50.8 mm)	Zinc Casting
Z206GP	Gold Plated	2" (50.8 mm)	Zinc Casting
Z206W	White	2" (50.8 mm)	Zinc Casting
Z306BS	Brushed Stainless	2" (50.8 mm)	Stainless Steel
Z306PS	Polished Stainless	2" (50.8 mm)	Stainless Steel
Z15306BS	Brushed Stainless	1-1/2" (38.1 mm)	Stainless Steel
Z15306PS	Polished Stainless	1-1/2" (38.1 mm)	Stainless Steel
Z14RG	Replacement Gasket Set for One Clamp		

Minimum order: 1 each. All Z-Series Clamps can be combined for quantity pricing.

For 3/8" (10 mm) Glass

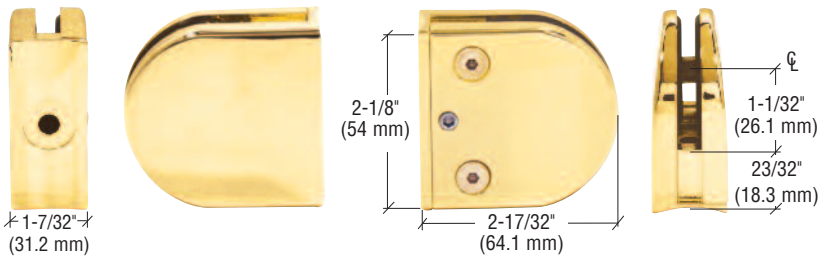


Base View | Front View | Rear View | Side View

CAT. NO.	FINISH	TUBE DIA.	BASE METAL
Z210BR	Brass	2" (50.8 mm)	Zinc Casting
Z210CH	Chrome	2" (50.8 mm)	Zinc Casting
Z210SC	Satin Chrome	2" (50.8 mm)	Zinc Casting
Z210BN	Brushed Nickel	2" (50.8 mm)	Zinc Casting
Z210GP	Gold Plated	2" (50.8 mm)	Zinc Casting
Z210W	White	2" (50.8 mm)	Zinc Casting
Z310BS	Brushed Stainless	2" (50.8 mm)	Stainless Steel
Z310PS	Polished Stainless	2" (50.8 mm)	Stainless Steel
Z15310BS	Brushed Stainless	1-1/2" (38.1 mm)	Stainless Steel
Z15310PS	Polished Stainless	1-1/2" (38.1 mm)	Stainless Steel
Z38RG	Replacement Gasket Set for One Clamp		

Minimum order: 1 each. All Z-Series Clamps can be combined for quantity pricing.

For 1/2" (12 mm) Glass



Base View | Front View | Rear View | Side View

CAT. NO.	FINISH	TUBE DIA.	BASE METAL
Z212BR	Brass	2" (50.8 mm)	Zinc Casting
Z212CH	Chrome	2" (50.8 mm)	Zinc Casting
Z212SC	Satin Chrome	2" (50.8 mm)	Zinc Casting
Z212BN	Brushed Nickel	2" (50.8 mm)	Zinc Casting
Z212GP	Gold Plated	2" (50.8 mm)	Zinc Casting
Z212W	White	2" (50.8 mm)	Zinc Casting
Z312BS	Brushed Stainless	2" (50.8 mm)	Stainless Steel
Z312PS	Polished Stainless	2" (50.8 mm)	Stainless Steel
Z15312BS	Brushed Stainless	1-1/2" (38.1 mm)	Stainless Steel
Z15312PS	Polished Stainless	1-1/2" (38.1 mm)	Stainless Steel
Z12RG	Replacement Gasket Set for One Clamp		

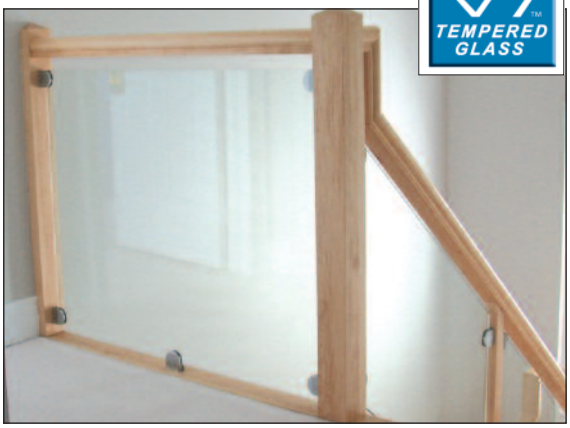
Minimum order: 1 each. All Z-Series Clamps can be combined for quantity pricing.

CRL Z-Series Round Type Flat Base Glass Clamps

SPECIFICATIONS:
Glass Thicknesses: Models for 1/4" to 1/2" (6 to 12 mm).
Base Design: Flat.
For Use With: Square Tubing or Other Flat Surfaces.
Material: Choice of Zinc Constructed or Stainless Steel. Stainless Steel or Powder Painted Zinc Clamps are recommended for more durability in exterior applications.
Glass Fabrication:
For 1/4" (6 mm), 5/16" (8 mm), and 3/8" (10 mm) Thick Glass: 1/2" (12 mm) diameter hole required if using provided steel pin for glass support.
For 1/2" (12 mm) Thick Glass: 9/16" (14 mm) diameter hole required if using provided steel pin for glass support.
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

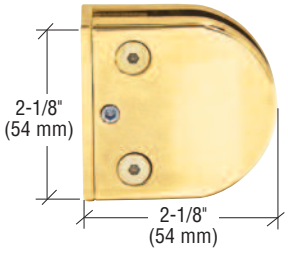


Models for Flat Surface Installations

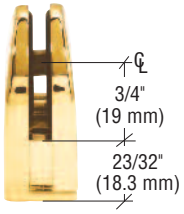
For 1/4" (6 mm) and 5/16" (8 mm) Glass

Base View

Front View



Rear View



Side View

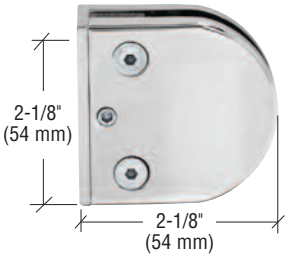
CAT. NO.	FINISH	BASE METAL
Z406BR	Brass	Zinc Casting
Z406CH	Chrome	Zinc Casting
Z406SC	Satin Chrome	Zinc Casting
Z406BN	Brushed Nickel	Zinc Casting
Z406GP	Gold Plated	Zinc Casting
Z406W	White	Zinc Casting
Z506BS	Brushed Stainless	Stainless Steel
Z506PS	Polished Stainless	Stainless Steel
Z14RG	Replacement Gasket Set for One Clamp	

Minimum order: 1 each. All Z-Series Clamps can be combined for quantity pricing.

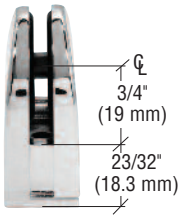
For 3/8" (10 mm) Glass

Base View

Front View



Rear View



Side View

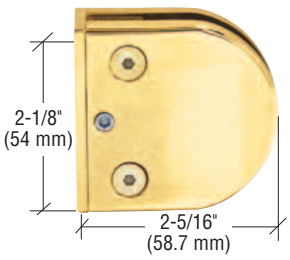
CAT. NO.	FINISH	BASE METAL
Z410BR	Brass	Zinc Casting
Z410CH	Chrome	Zinc Casting
Z410SC	Satin Chrome	Zinc Casting
Z410BN	Brushed Nickel	Zinc Casting
Z410GP	Gold Plated	Zinc Casting
Z410W	White	Zinc Casting
Z510BS	Brushed Stainless	Stainless Steel
Z510PS	Polished Stainless	Stainless Steel
Z38RG	Replacement Gasket Set for One Clamp	

Minimum order: 1 each. All Z-Series Clamps can be combined for quantity pricing.

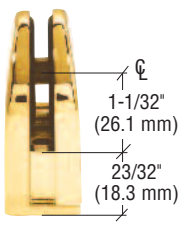
For 1/2" (12 mm) Glass

Base View

Front View



Rear View



Side View

CAT. NO.	FINISH	BASE METAL
Z412BR	Brass	Zinc Casting
Z412CH	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	Stainless Steel
Z512PS	Polished Stainless	Stainless Steel
Z12RG	Replacement Gasket Set for One Clamp	

Minimum order: 1 each. All Z-Series Clamps can be combined for quantity pricing.

CRL Z-Series Square Type Radius Base Glass Clamps

Use Only TEMPERED GLASS

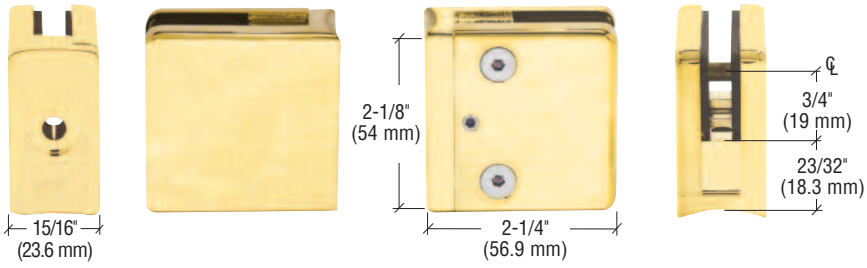
SPECIFICATIONS:
Glass Thicknesses: Models for 1/4" to 1/2" (6 to 12 mm).
Base Design: Radius.
For Use With: 2" (50.8 mm) Diameter Round Tubing only.
Material: Choice of Zinc Constructed or Stainless Steel. Stainless Steel or Powder Painted Zinc Clamps are recommended for more durability in exterior applications.
Glass Fabrication:
For 1/4" (6 mm), 5/16" (8 mm), and 3/8" (10 mm) Thick Glass: 1/2" (12 mm) diameter hole required if using provided steel pin for glass support.
For 1/2" (12 mm) Thick Glass: 9/16" (14 mm) diameter hole required if using provided steel pin for glass support.
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

Models for Round Tubing Installations

For 1/4" (6 mm) and 5/16" (8 mm) Glass

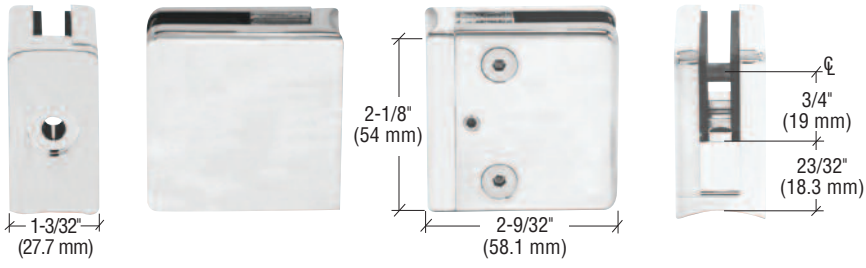


Base View | Front View | Rear View | Side View

CAT. NO.	FINISH	BASE METAL
Z606BR	Brass	Zinc Casting
Z606CH	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	Stainless Steel
Z706PS	Polished Stainless	Stainless Steel
Z14SG	Replacement Gasket Set for One Clamp	

Minimum order: 1 each. All Z-Series Clamps can be combined for quantity pricing.

For 3/8" (10 mm) Glass

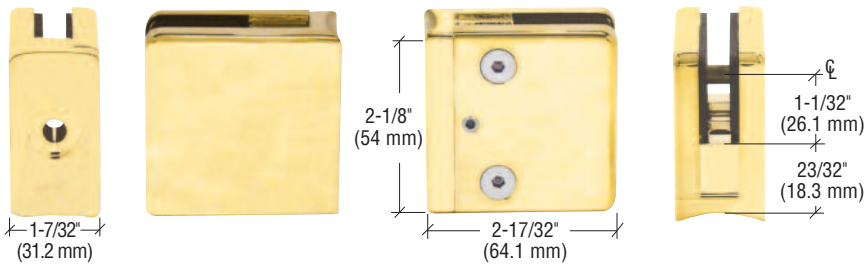


Base View | Front View | Rear View | Side View

CAT. NO.	FINISH	BASE METAL
Z610BR	Brass	Zinc Casting
Z610CH	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	Stainless Steel
Z710PS	Polished Stainless	Stainless Steel
Z38SG	Replacement Gasket Set for One Clamp	

Minimum order: 1 each. All Z-Series Clamps can be combined for quantity pricing.

For 1/2" (12 mm) Glass



Base View | Front View | Rear View | Side View

CAT. NO.	FINISH	BASE METAL
Z612BR	Brass	Zinc Casting
Z612CH	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	Stainless Steel
Z712PS	Polished Stainless	Stainless Steel
Z12SG	Replacement Gasket Set for One Clamp	

Minimum order: 1 each. All Z-Series Clamps can be combined for quantity pricing.

CRL Z-Series Square Type Flat Base Glass Clamps

Use Only TEMPERED GLASS

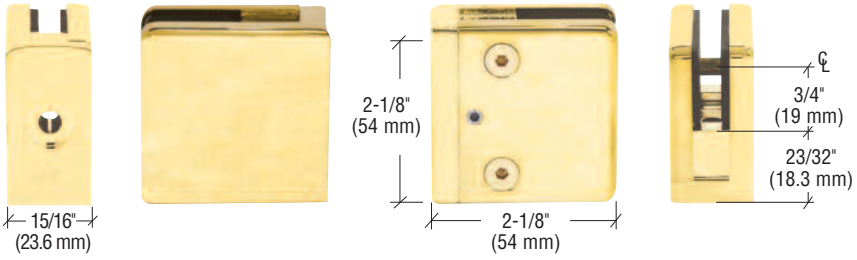
SPECIFICATIONS:
Glass Thicknesses: Models for 1/4" to 1/2" (6 to 12 mm).
Base Design: Flat.
For Use With: Square Tubing or Other Flat Surfaces.
Material: Choice of Zinc Constructed or Stainless Steel. Stainless Steel or Powder Painted Zinc Clamps are recommended for more durability in exterior applications.
Glass Fabrication:
For 1/4" (6 mm), 5/16" (8 mm), and 3/8" (10 mm) Thick Glass: 1/2" (12 mm) diameter hole required if using provided steel pin for glass support.
For 1/2" (12 mm) Thick Glass: 9/16" (14 mm) diameter hole required if using provided steel pin for glass support.
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

Models for Flat Surface Installations

For 1/4" (6 mm) and 5/16" (8 mm) Glass

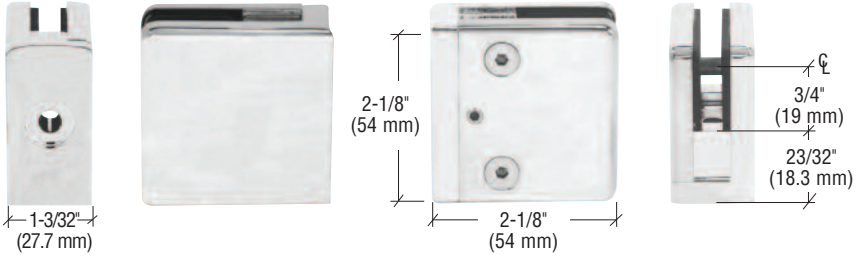


Base View | Front View | Rear View | Side View

CAT. NO.	FINISH	BASE METAL
Z806BR	Brass	Zinc Casting
Z806CH	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	Stainless Steel
Z906PS	Polished Stainless	Stainless Steel
Z14SG	Replacement Gasket Set for One Clamp	

Minimum order: 1 each. All Z-Series Clamps can be combined for quantity pricing.

For 3/8" (10 mm) Glass

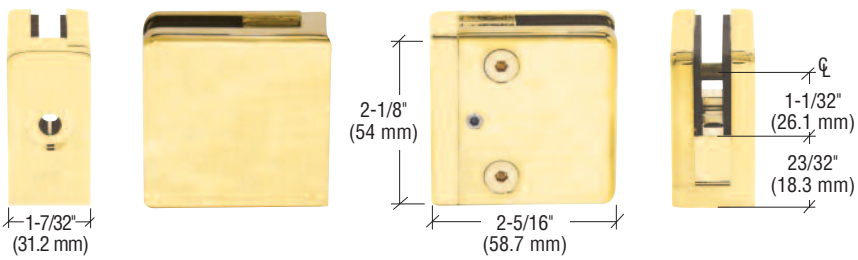


Base View | Front View | Rear View | Side View

CAT. NO.	FINISH	BASE METAL
Z810BR	Brass	Zinc Casting
Z810CH	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	Stainless Steel
Z910PS	Polished Stainless	Stainless Steel
Z38SG	Replacement Gasket Set for One Clamp	

Minimum order: 1 each. All Z-Series Clamps can be combined for quantity pricing.

For 1/2" (12 mm) Glass



Base View | Front View | Rear View | Side View

CAT. NO.	FINISH	BASE METAL
Z812BR	Brass	Zinc Casting
Z812CH	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	Stainless Steel
Z912PS	Polished Stainless	Stainless Steel
Z12SG	Replacement Gasket Set for One Clamp	

Minimum order: 1 each. All Z-Series Clamps can be combined for quantity pricing.

CRL Z-Series Square Type Glass Clamps for 3/4" (19 mm) Glass

SPECIFICATIONS:

Glass Thickness: 3/4" (19 mm).

Base Design: Flat and Radius.

For Use With: Square Tubing or Other Flat Surfaces and 2" (50.8 mm) Diameter Round Tubing.

Material: 316 Alloy Stainless Steel.

Glass Fabrication:
One 7/8" (22.2 mm) diameter finger notch is required. The included steel pin must be used for 3/4" (19 mm) Glass applications.

Includes: Rubber Gaskets and Steel Pin.

CAT. NO. ZBOLT
Fastener for Use With Metal Posts

CAT. NO. ZLAG
Fastener for Use With Wood Posts

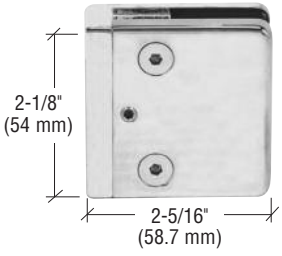
Models for Flat and Round Surface Installations

For 3/4" (19 mm) Glass (Flat Surface Mounting)

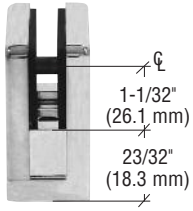
- For Use With Square Tubing or Other Flat Surfaces
- 316 Alloy Stainless Steel

Base View

Front View



Rear View



Side View

CAT. NO.	FINISH	BASE METAL
Z934BS	Brushed Stainless	Stainless Steel
Z934PS	Polished Stainless	Stainless Steel
Z34SG	Replacement Gasket Set for 3/4"	(19 mm) Glass
Z58SG	Replacement Gasket Set for 5/8"	(16 mm) Glass

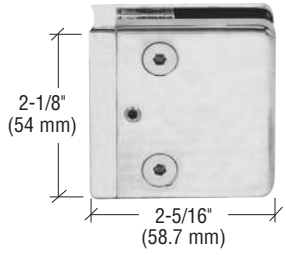
Minimum order: 1 each. All Z-Series Clamps can be combined for quantity pricing.

For 3/4" (19 mm) Glass (Radius Surface Mounting)

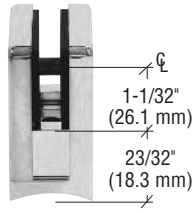
- For Use With 2" (50.8 mm) Diameter Round Tubing
- 316 Alloy Stainless Steel

Base View

Front View



Rear View



Side View

CAT. NO.	FINISH	BASE METAL
Z734BS	Brushed Stainless	Stainless Steel
Z734PS	Polished Stainless	Stainless Steel
Z34SG	Replacement Gasket Set for 3/4"	(19 mm) Glass
Z58SG	Replacement Gasket Set for 5/8"	(16 mm) Glass

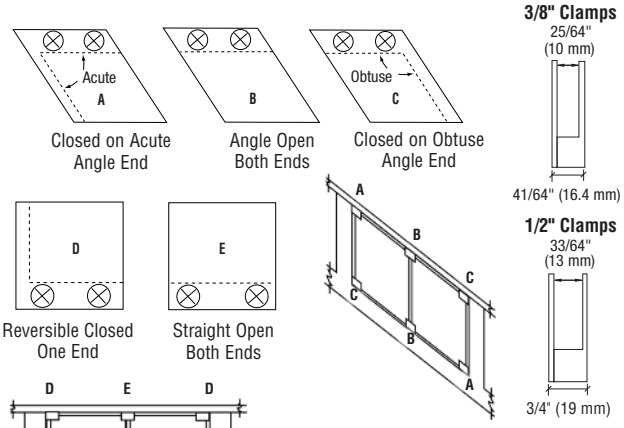
Minimum order: 1 each. All Z-Series Clamps can be combined for quantity pricing.

CRL Glass Clamps for Stair and Walkway Railings

Use Only TEMPERED GLASS

- **Chrome, Brass, and Brushed Nickel Finishes for 3/8" or 1/2" (10 or 12 mm) Thick Tempered Glass**
- **Custom Finishes Available on Request**

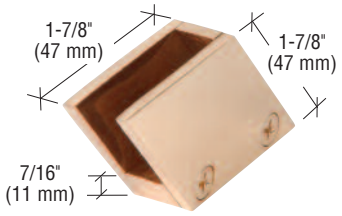
Our Glass and Railing Clamps are predrilled and ready for use in the construction of metal and glass railings, partitions, room dividers and more. Two sizes accommodate 3/8" or 1/2" (10 or 12 mm) thick tempered glass. Three popular finishes are stocked, with custom finishes available. Simply loosen screw on one end, insert glass edge and tighten. Use CRL Tuff-Pak Tape (see page B199), to cushion glass in Clamps. For wood mount attachments use Screw Cat. No. 8X212DW. For metal attachments use Screw Cat. No. FHSTMSS. Drawings and templates for all Clamps are available online at **crlaurence.com**.



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.

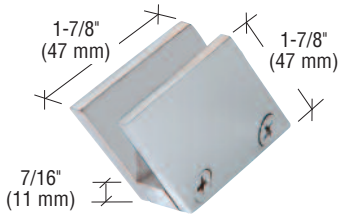


CAT. NO.	FINISH	GLASS THICKNESS
RH3312BR	Brass	1/2" (12 mm)
RH3338BR	Brass	3/8" (10 mm)
RH3312CH	Chrome	1/2" (12 mm)
RH3338CH	Chrome	3/8" (10 mm)
RH3312BN	Brushed Nickel	1/2" (12 mm)
RH3338BN	Brushed Nickel	3/8" (10 mm)

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.

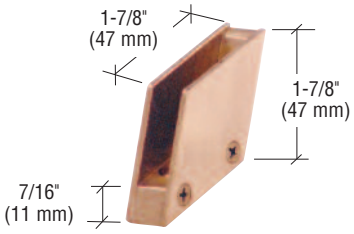


CAT. NO.	FINISH	GLASS THICKNESS
RH4412BR	Brass	1/2" (12 mm)
RH4438BR	Brass	3/8" (10 mm)
RH4412CH	Chrome	1/2" (12 mm)
RH4438CH	Chrome	3/8" (10 mm)
RH4412BN	Brushed Nickel	1/2" (12 mm)
RH4438BN	Brushed Nickel	3/8" (10 mm)

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.

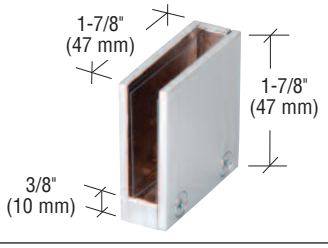


CAT. NO.	FINISH	GLASS THICKNESS
RH5512BR	Brass	1/2" (12 mm)
RH5538BR	Brass	3/8" (10 mm)
RH5512CH	Chrome	1/2" (12 mm)
RH5538CH	Chrome	3/8" (10 mm)
RH5512BN	Brushed Nickel	1/2" (12 mm)
RH5538BN	Brushed Nickel	3/8" (10 mm)

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.

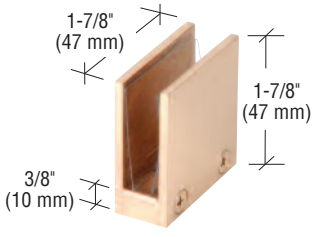


CAT. NO.	FINISH	GLASS THICKNESS
RH2212BR	Brass	1/2" (12 mm)
RH2238BR	Brass	3/8" (10 mm)
RH2212CH	Chrome	1/2" (12 mm)
RH2238CH	Chrome	3/8" (10 mm)
RH2212BN	Brushed Nickel	1/2" (12 mm)
RH2238BN	Brushed Nickel	3/8" (10 mm)

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.

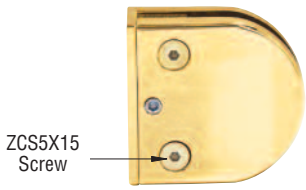


CAT. NO.	FINISH	GLASS THICKNESS
RH1112BR	Brass	1/2" (12 mm)
RH1138BR	Brass	3/8" (10 mm)
RH1112CH	Chrome	1/2" (12 mm)
RH1138CH	Chrome	3/8" (10 mm)
RH1112BN	Brushed Nickel	1/2" (12 mm)
RH1138BN	Brushed Nickel	3/8" (10 mm)

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

CRL Z-Clamp Replacement Screws

- Three Finishes to Match Our Z-Series Clamps



CAT. NO.	FINISH	QTY/PACK
ZCS5X15BR	Brass	8
ZCS5X15CH	Chrome	8
ZCS5X15SS	Stainless Steel	8

Minimum order: 1 pack.

CRL Z-Clamp Attachment Screws

- Stainless Screws for Use With CRL's Z-Series Clamps

CAT. NO. ZLAG
For Wood 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 Stainless Steel Lag Bolt
ZBOLT	5/16"-18 x 1" (25 mm) 304 Grade Stainless Steel Socket Head Cap Bolt
SHCS10X34	10-24 x 3/4" (19 mm) 304 Grade Stainless Steel Socket Head Cap Screw

Minimum order: 10 each. Must order in increments of 10.

CRL Rivet-Nut Drill Bit

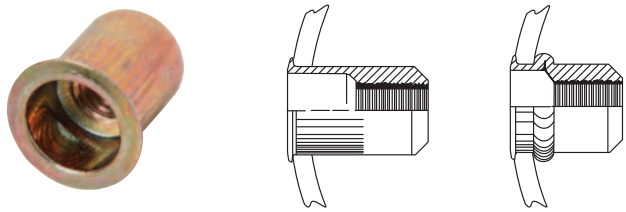
- High Speed 17/32" Drill for Installing Our ZRNUT Rivet-Nuts

This High Speed Drill Bit is made of M-7 steel for high resistance to abrasion during tough drilling applications. The three-flatted design provides better chuck grip and reduces slippage. Shank diameter is 1/2" (12.7 mm). Overall length is 6" (152 mm). Minimum order is one each.

CAT. NO. 91134

CRL Riv-Nut

- For Securing Z-Series Clamps to Tubing Using ZBOLT Cap Bolt (See Above)



CAT. NO. ZRNUT

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 order in increments of 10.

CRL Heavy-Duty Thread-Setter Tool

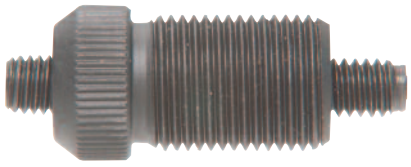
- Installs Rivet-Nuts and Poly-Nuts

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. Minimum order is one each.

CAT. NO. 34604

CRL 5/16"-18 Mandrel and Nosepiece

- Required for Installation of Our ZRNUT With 34604 Thread-Setter



The CRL 5/16"-18 Mandrel and Nosepiece for Cat. No. 34604 Heavy-Duty Thread-Setter Tool allows for the installation of larger Rivet-Nuts and Thread-Serts. This Mandrel and Nosepiece is required for installation of the Cat. No. ZRNUT. Minimum order is one each.

CAT. NO. 34618

CRL Stainless Steel Modular Crossbar Infill System

new

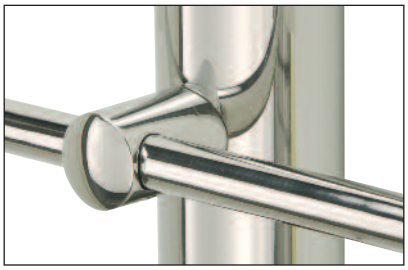
- Commonly Used as a Railing Infill
- No Special Welding or Fabrication Required
- 316 Alloy Stainless Steel
- Easy Slip Fit Design
- Two Architectural Finishes Available

CRL's Stainless Steel Modular Crossbar Infill System is designed for standard infill railing applications. Offered in two 316 alloy 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.

These 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 Rivet Nuts for attachment (see page B287). Our modular Standoff Connector Systems can be used as shown or customized to your client's needs.

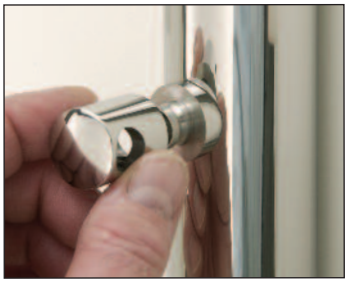
Standard Mounting Options

Flat Back Surface Mount



Round Post Surface Mount

Mount Back Plate to Post



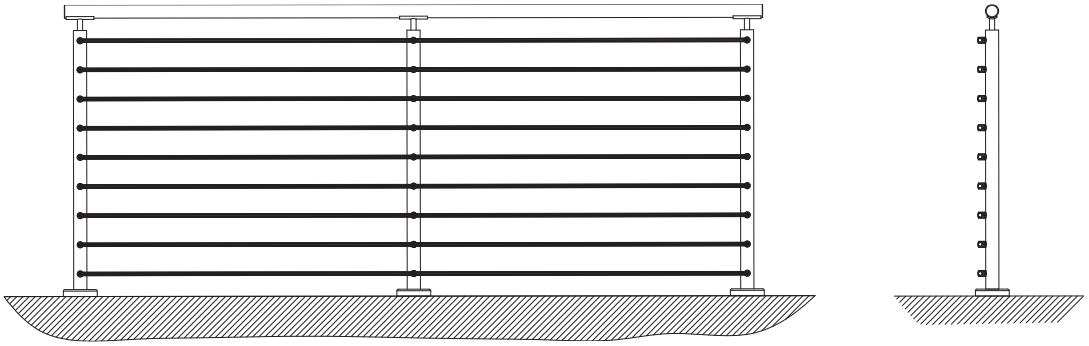
Sleeve External Housing Over Back Mounting Plate and Tighten Down Set Screw

Insert 1/2" (12 mm) Stainless Steel Bar Into Position

Tighten Down Set Screw to Complete Installation

Let CRL Design and Engineer Your Next Project

- Auto Cad Drawings
- Shop Drawings
- Engineering
- Technical Support



CRL MODULAR CROSSBAR INFILL SYSTEM

CRL 1/2" (12 mm) Diameter Stainless Steel Bar

new

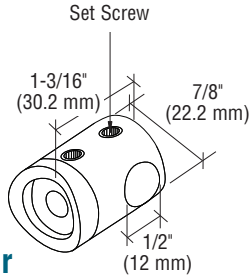
- Great for Use as Railing Infills
- 316 Alloy Stainless Steel for Interior and Exterior Use
- Easy Slip Fit Design
- No Welding or Custom Fabrication Required
- Two Architectural Finishes Available

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 Bar can be cut and installed easily with its slip fit design. Bars are shipped in 236-1/4" (6 m) lengths.

CAT. NO.	LENGTH	FINISH
CBR12BS	236-1/4" (6 m)	Brushed Stainless
CBR12PS	236-1/4" (6 m)	Polished Stainless

Minimum order: 1 each. Must ship common carrier.

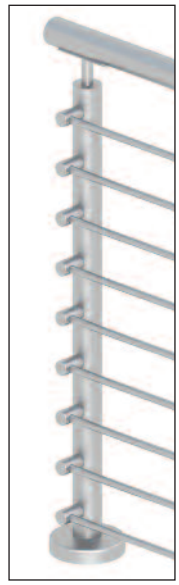
CRL Left End Standoff Connector (Radius Back)



Bottom View of Standoff

- Surface Mount Design With No Exposed Fasteners
- 316 Alloy Stainless Steel
- Easy Slip Fit Mounting
- Supports 1/2" (12 mm) Diameter Bar
- Two Architectural Finishes Available
- Attaches to 1-1/2" (38.1 mm) to 2" (50.8 mm) Diameter Tubing

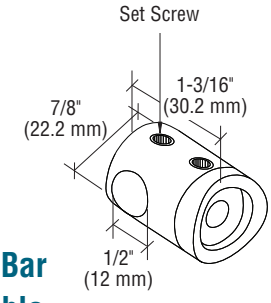
CRL's Stainless Steel Standoff Connectors are designed to support 1/2" (12 mm) diameter Stainless Steel Bar. Our easy slip fit design allows for clean seamless installations. No special welding or fabrication required. When attaching to the post use our Cat. No. SRB0LT 1/4"-20 x 1" (25 mm) bolt.



CAT. NO.	FINISH
CBR3BS	Brushed Stainless
CBR3PS	Polished Stainless

Minimum order: 1 each.

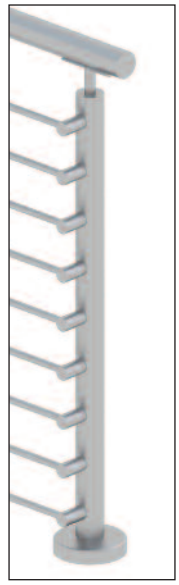
CRL Right End Standoff Connector (Radius Back)



Bottom View of Standoff

- Surface Mount Design With No Exposed Fasteners
- 316 Alloy Stainless Steel
- Easy Slip Fit Mountings
- Supports 1/2" (12 mm) Diameter Bar
- Two Architectural Finishes Available
- Attaches to 1-1/2" (38.1 mm) to 2" (50.8 mm) Diameter Tubing

CRL's Stainless Steel Standoff Connectors are designed to support 1/2" (12 mm) diameter Stainless Steel Bar. Our easy slip fit design allows for clean 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.

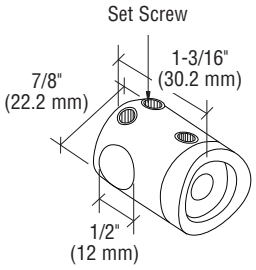


CAT. NO.	FINISH
CBR4BS	Brushed Stainless
CBR4PS	Polished Stainless

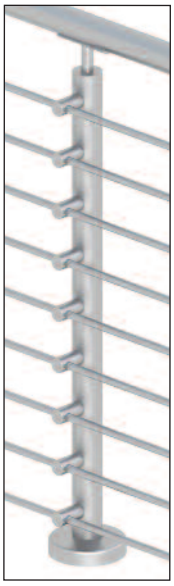
Minimum order: 1 each.

CRL Center Standoff Connector (Radius Back)

- For Center Post Areas Supporting 1/2" (12 mm) Diameter Bar
- Surface Mount Design With No Exposed Fasteners
- 316 Alloy Stainless Steel
- Two Architectural Finishes Available
- Easy Slip Fit Mounting
- No Special Welding or Fabrication
- Attaches to 1-1/2" (38.1 mm) to 2" (50.8 mm) Diameter Tubing



Bottom View of Standoff



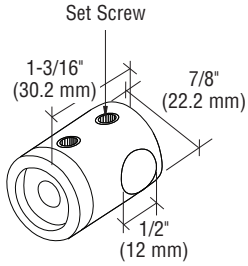
For center post areas, CRL's Stainless Steel Center Standoff Connectors are designed to support 1/2" (12 mm) diameter Stainless Steel Bar. Our easy slip fit design allows for clean seamless installations. No special welding or fabrication required. When attaching to the post use our Cat. No. SRB0LT 1/4"-20 x 1" (25 mm) bolt.

CAT. NO.	FINISH
CBR5BS	Brushed Stainless
CBR5PS	Polished Stainless

Minimum order: 1 each.

CRL MODULAR CROSSBAR INFILL SYSTEM

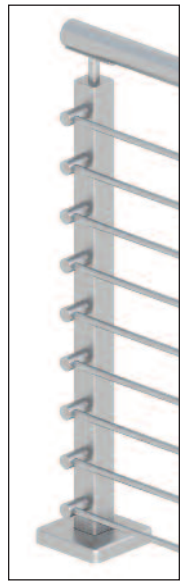
CRL Left End Standoff Connector (Flat Back)



Bottom View of Standoff

- Surface Mount Design With No Exposed Fasteners
- 316 Alloy Stainless Steel
- Easy Slip Fit Mounting
- Supports 1/2" (12 mm) Diameter Bar
- Two Architectural Finishes Available
- For Use With Square Post Applications

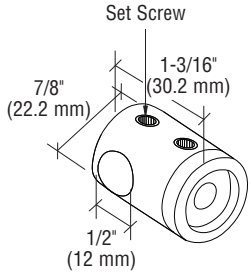
CRL's Stainless Steel Standoff Connectors are designed to support CRL 1/2" (12 mm) diameter Stainless Steel Bar. Our easy slip fit design allows for clean seamless installations. No special welding or fabrication required. When attaching to the post use our Cat. No. SRB0LT 1/4"-20 x 1" (25 mm) bolt.



CAT. NO.	FINISH
CBR6BS	Brushed Stainless
CBR6PS	Polished Stainless

Minimum order: 1 each.

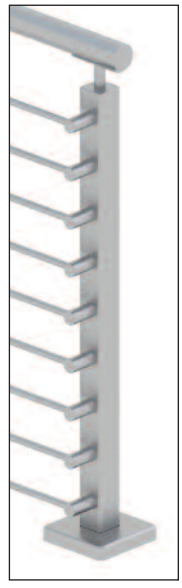
CRL Right End Standoff Connector (Flat Back)



Bottom View of Standoff

- Surface Mount Design With No Exposed Fasteners
- 316 Alloy Stainless Steel
- Easy Slip Fit Mounting
- Supports 1/2" (12 mm) Diameter Bar
- Two Architectural Finishes Available
- For Use With Square Post Applications

CRL's Stainless Steel Standoff Connectors are designed to support CRL 1/2" (12 mm) diameter Stainless Steel Bar. Our easy slip fit design allows for clean 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.



CAT. NO.	FINISH
CBR7BS	Brushed Stainless
CBR7PS	Polished Stainless

Minimum order: 1 each.

CRL Standoff Connector Bolt

- For Securing Modular Crossbar Standoffs
- Stainless Steel 1/4"-20 x 1" Flat Head Phillips Bolt

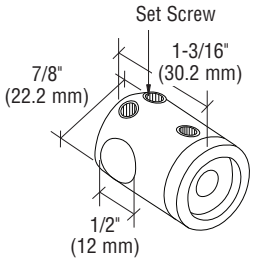
CRL Standoff Connector Bolts are used to secure Standoff Connectors to drilled and tapped posts. Flat Phillips head bolt has 1/4"-20 thread.

CAT. NO.	SIZE	QTY/PK.
SRB0LT	1/4"-20 x 1" (25 mm)	50

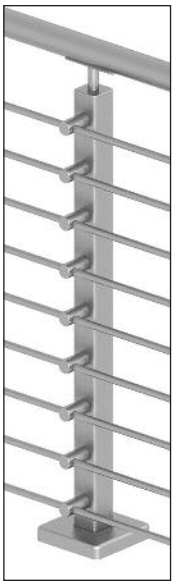
Minimum order: 50 each. Must be ordered in increments of 50.

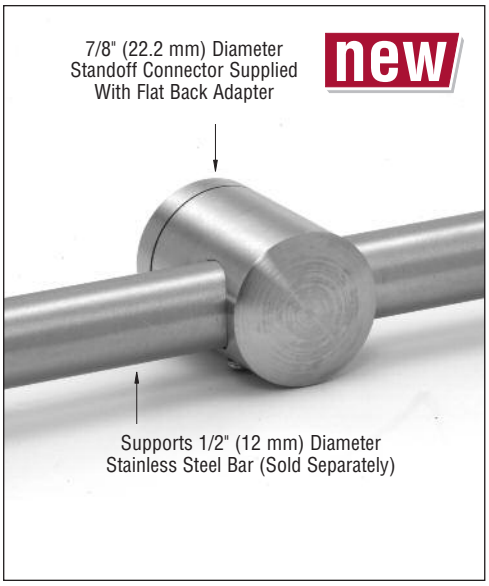
CRL Center Standoff Connector (Flat Back)

- For Center Post Areas Supporting 1/2" (12 mm) Diameter Bar
- Surface Mount Design With No Exposed Fasteners
- 316 Alloy Stainless Steel
- Easy Slip Fit Mounting
- No Special Welding or Fabrication
- Two Architectural Finishes Available
- Attaches to Square Post Applications



Bottom View of Standoff





For center post areas, CRL's Stainless Steel Center Standoff Connectors are designed to support 1/2" (12 mm) diameter Stainless Steel Bar. Our easy slip fit design allows for clean 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.

CAT. NO.	FINISH
CBR8BS	Brushed Stainless
CBR8PS	Polished Stainless

Minimum order: 1 each.

Drill and Tap Post

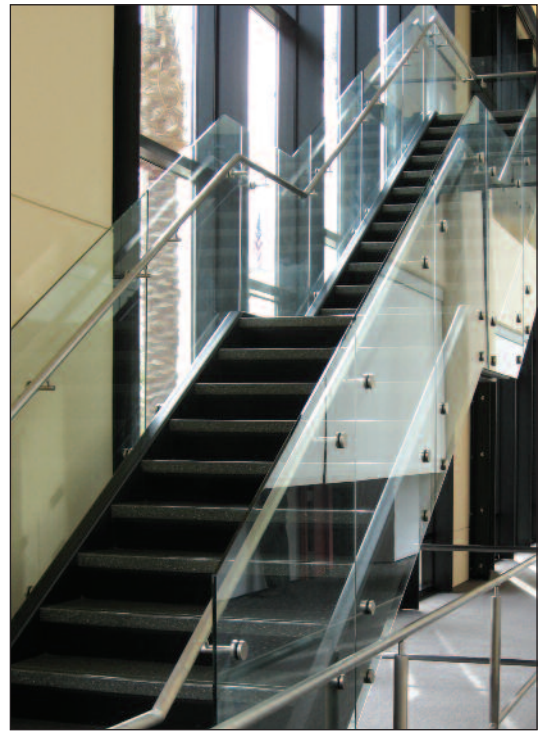
Mount Back Plate to Post with Cat. No. SRBOLT 1/4"-20 x 1" Stainless Steel Bolt

Sleeve External Housing Over Back Mounting Plate and Tighten Set Screw

Insert 1/2" (12 mm) Stainless Steel Bar Into Position and Tighten Set Screw

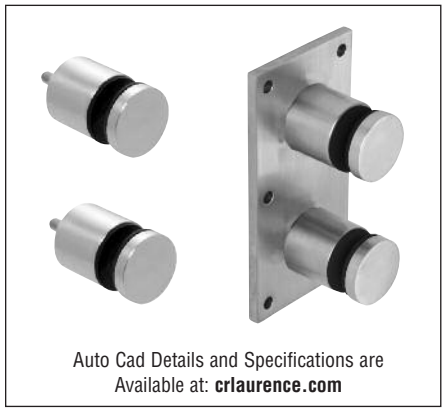
CRL Standoff Railing System

C.R. Laurence Company is now manufacturing Standoff Railing Systems. 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.



Design Options

- For Use With 1/2" or 3/4" (12 or 19 mm) Tempered Glass
- Exterior and Interior Applications
- Two Architectural Finishes Available
- Powder Coated Finishes are Also Available
- Compact Design for Minimal Obstruction
- Designed for Guard Rail, Stairway, Ramp Areas
- Meets or Exceeds A.D.A. Requirements
- For a Full Line of Cap Rails, Hand Rails, and Hand Rail Brackets, (See Pages B174 to B215, and B311 to B341)



Auto Cad Details and Specifications are Available at: **crlaurence.com**

Optional Hand Rail Tubing

1-1/2" (38.1 mm) Diameter Aluminum Hand Rail (see page B312)

1-1/2" (38.1 mm) Diameter Stainless Steel Hand Rail (see pages B311 to B312)

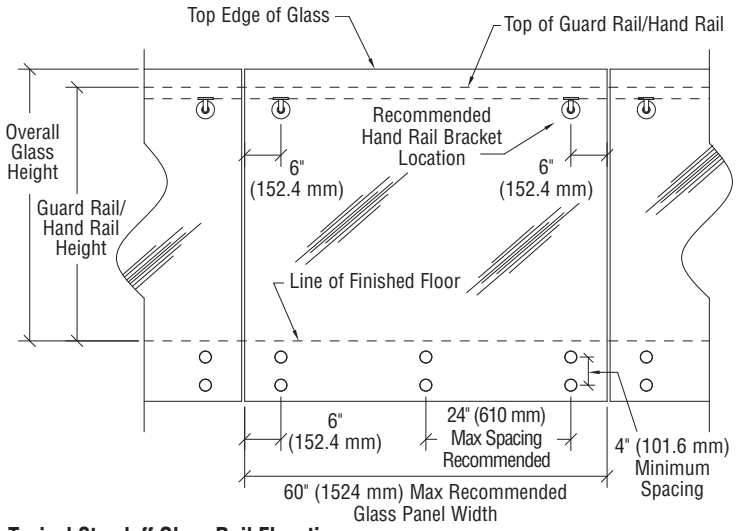
1.66" (42.2 mm) Diameter Stainless Steel Hand Rail (see page B312)

Optional Cap Rails

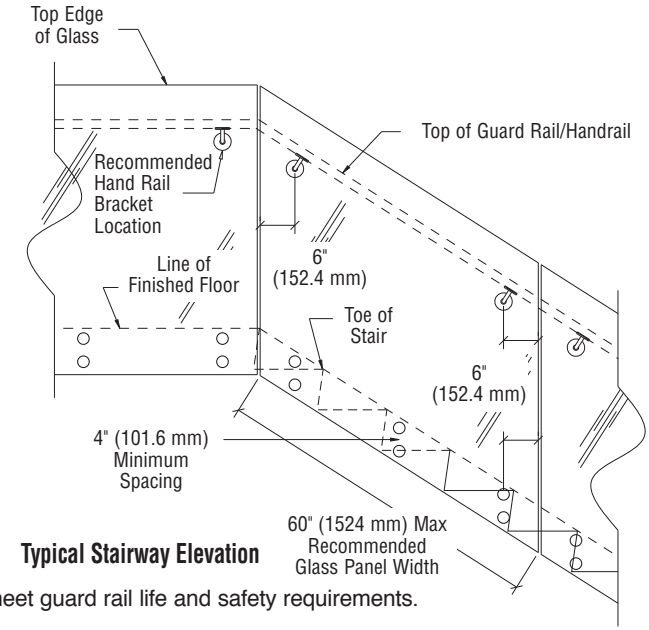
U-Channel Cap Rails (see pages B196 to B202)

Premium Cap Rails (see pages B175 to B178)

Extruded Aluminum Cap Rails (see page B179)



Typical Standoff Glass Rail Elevation



Typical Stairway Elevation

NOTE: If cap rail is not used a horizontal heavy wall hand rail is required to meet guard rail life and safety requirements.

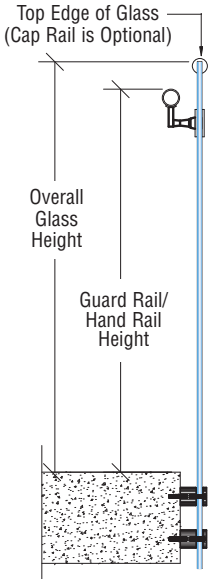
CRL Standoff Railing System

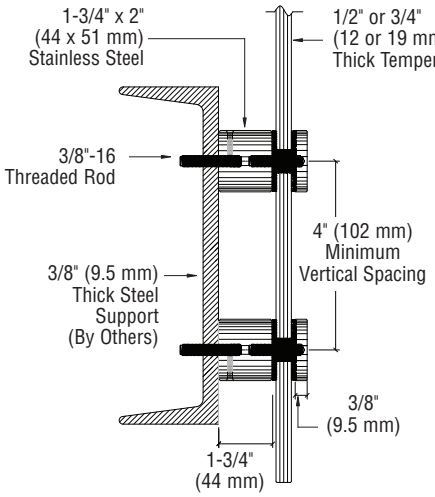
• Custom Engineering and Fabrication Available

CRL's high quality commercial and residential Standoff Railing System is manufactured to meet or exceed applicable building code requirements. This system can be designed to be mounted to almost any approved substrate. Utilizing our state-of-the-art manufacturing facility we can produce almost any desired design to meet your project specifications. As illustrated below, this system is most commonly mounted to a steel substrate. However, this system can also be engineered by CRL for other mounting surfaces. Please contact CRL Railing Technical Sales for additional information.

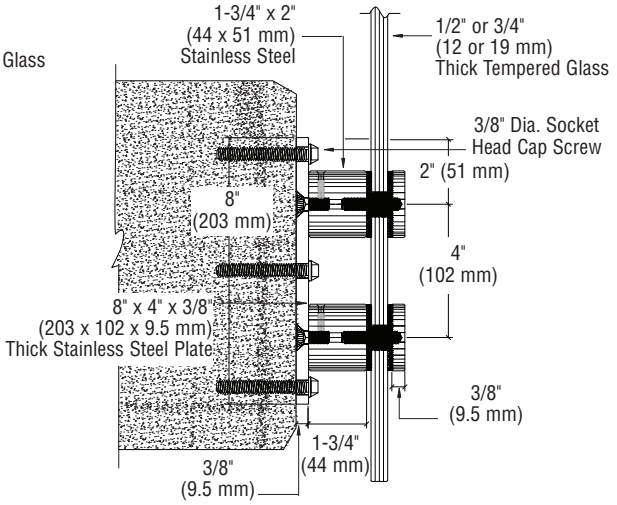
CUSTOM FABRICATION

CRL is also a custom fabricator and will fabricate to your specifications or job requirements if custom size components are required. Contact CRL Railing Technical Sales today for your next custom project. Structural Engineering and Shop Drawing Services are also available.





CAT. NO. RS0B2134



CAT. NO. RS0B20

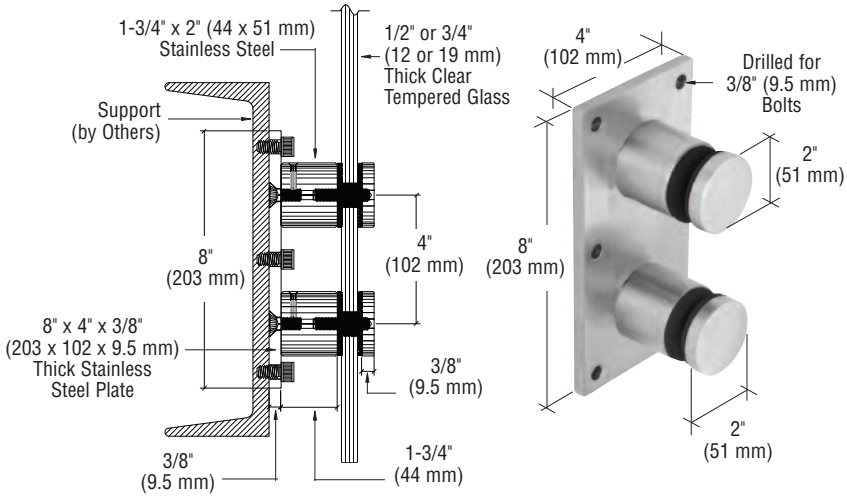
CRL Glass Rail Standoff Fittings

- Compact Design for Minimal Obstruction
- Complete With Mounting Plate
- For Use With 1/2" and 3/4" (12 and 19 mm) Tempered Glass Applications
- Brushed or Polished 316 Grade Stainless Finishes Available
- Designed for Wood or Steel Mounting Attachment

Use Only TEMPERED GLASS

CRL's Glass Rail Standoff Fittings can be used two ways when mounting glass panels up to 3/4" (19 mm) in thickness. The 4" x 8" (102 x 203 mm) back plate gives the installer more adjustment and six anchor points during installation for those tricky job site mounting conditions. The steel back plate can be fastened directly to steel, concrete, or wood substrates and shimmed as required with blocking. This versatile Standoff Fitting features a 2" (51 mm) diameter cap with a threaded 3/8"-16 threaded stainless steel rod to secure the glass panel.

The 2" (51 mm) diameter standoffs are mechanically fastened to a 3/8" (9.5 mm) thick 316 grade stainless steel back plate that is pre-drilled for mounting. Two popular stainless steel finishes are available from stock. If you customer has a special job site condition, custom diameters and lengths are also available. Attachment anchors for wood concrete or steel are sold separately.



Steel Application

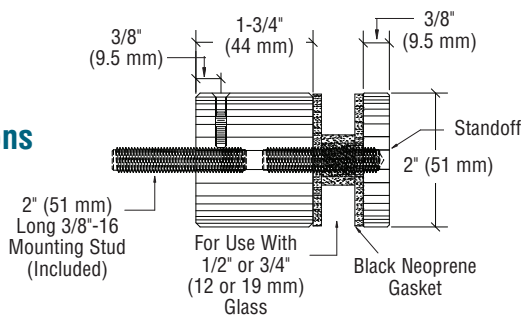
SPECIFICATIONS:
For Use With 1/2" or 3/4" (12 or 19 mm) Tempered Glass
(Do not use with raw or annealed glass)
Glass Fabrication:
Two 3/4" (19 mm) Diameter Holes Per Fitting
Spacing:
Maximum spacing between Fittings is 24" (609 mm) center-to-center.

CAT. NO.	FINISH
RS0B20BS	Brushed Stainless
RS0B20PS	Polished Stainless

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

CRL Glass Rail Standoff Base and Cap

- Compact Design With Base, Cap, and Mounting Stud
- For Use With 1/2" and 3/4" (12 and 19 mm) Tempered Glass Applications
- Brushed or Polished 316 Grade Stainless Finishes Available
- Designed for Steel, Aluminum, and Concrete Substrates



These heavy-duty Railing Standoffs are designed for glass Handrail or Guard Rail applications standard. The standoff fitting has a 2" (51 mm) diameter x 1-3/4" (44 mm) standard projection from the installed attachment point. Custom lengths and diameters are also available. It comes with a 3/8"-16 x 2" (51 mm) Allen Stud for mounting to steel, along with necessary rubber washers and grommet. Other attachment anchors are also available, see page B297.

SPECIFICATIONS:
For Use With 1/2" or 3/4" (12 or 19 mm) Tempered Glass (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 on hand or guard rail applications is 24" (609 mm) center-to-center and minimum height is 4" (102 mm) center-to-center.

Use Only TEMPERED GLASS

CAT. NO.	FINISH
RS0B2134BS	Brushed Stainless
RS0B2134PS	Polished Stainless

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

CRL 4" Adjustable Strap Wrench

new

Our Adjustable Strap Wrench is the perfect tool for anyone installing Standoff Bases or polished threaded tubing. The 7/16" (11 mm) wide x 1/8" (3 mm) thick rubber strap quickly and efficiently tightens any plated cylinder without damaging the surface's finish. The strap is easily adjustable from 3/4" (19 mm) to 4" (102 mm) diameter using a conveniently located thumb lever in the handle. Minimum order is one each.

CAT. NO. ASW12

CRL Standoff Wrench for CRL's Glass Rail Standoff Fittings

The Standoff 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.

CAT. NO.	DESCRIPTION
SSW12	Standoff Wrench

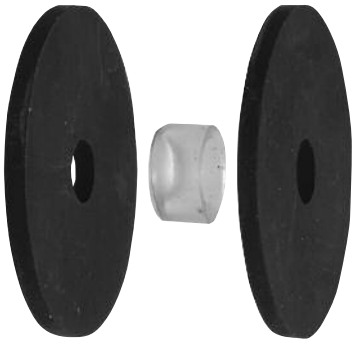
Minimum order: 1 each.

CRL Replacement Gasket Set for RS0B Series Standoff Fittings

Each Gasket Set Includes:

- 1 Each Grommet
- 2 Each 2" (51 mm) Diameter Black Neoprene Gaskets

Replacement Gaskets are designed for use with CRL's RS0B Series Standoffs Fittings. See page B295 for standoff components.



CAT. NO.	DESCRIPTION
RS0BRG1	Standoff Replacement Gasket Set

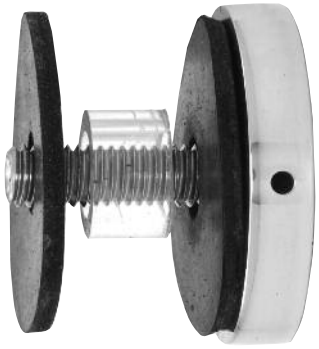
Minimum order: 1 each.

CRL Replacement Standoff Cap for RS0B Series Standoff Fittings

Each Cap Assembly Includes:

- 1 Each Cap
- 1 Each 3/8"-16 Allen Screw
- 1 Each Grommet
- 2 Each 2" (51 mm) Diameter Black Neoprene Gaskets

Replacement Caps are designed for use with CRL's RS0B Series Standoffs Fittings. See page B295 for standoff components.

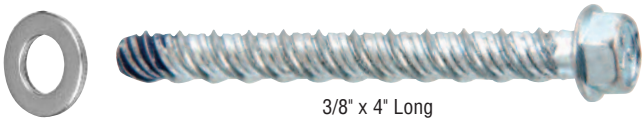


CAT. NO.	DESCRIPTION
RCAP2BS	Brushed Stainless Cap Assembly
RCAP2PS	Polished Stainless Cap Assembly

Minimum order: 1 each.

CRL Wedge-Bolt Concrete Anchors

1/4" x 3" Long



3/8" x 4" Long

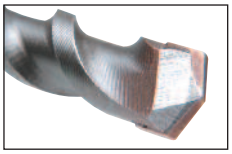
- Zinc Coated High Carbon Steel
- Great for Railing and Windscreen Applications

CAT. NO.	DESCRIPTION	QTY/BOX
WBA14X3	1/4" x 3" (6.3 x 76.2 mm) Wedge-Bolt Anchor	50
WBAW14*	1/4" Wedge-Bolt Washer for WBA14X3	50
WBA38X4	3/8" x 4" (9.5 x 101.6 mm) Wedge-Bolt Anchor	50
WBAW38*	3/8" Wedge-Bolt 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.

CRL S.D.S. Masonry Drills

- ANSI Specifications for Wedge-Bolts



S.D.S. Masonry Drills are made to the ANSI Specifications required for the proper performance of Wedge-Bolts. 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	LENGTH
SDSW12	.495" (12.6 mm)	12" (305 mm)
SDSW38	.389" (9.9 mm)	12" (305 mm)
SDSW14	.259" (6.6 mm)	8" (203 mm)

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

CRL Standoff Railing Attachment Accessories

Concrete Anchor

Hanger Bolt

Threaded Rod

Allen Screw

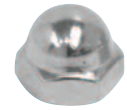
Socket Head Cap Screw

Lock Washer

Flat Washer

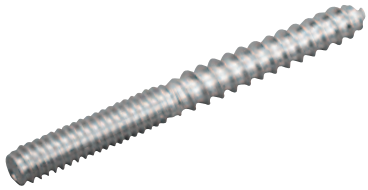
Nylock Hex Nut

Hex Nut



Acorn Nut

Hanger Bolts are available in stainless and can be used in wood.



HANGER BOLTS

CAT. NO.	FINISH	SIZE
HB38112S	304 Stainless	3/8"-16 x 1-1/2" (38.1 mm)
HB38212S	304 Stainless	3/8"-16 x 2-1/2" (63.5 mm)

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

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

HEX AND NYLOCK HEX NUTS

CAT. NO.	FINISH	TYPE	SIZE
HN3816S	304 Stainless	Hex	3/8"-16
NLN3816S	304 Stainless	Nylock	3/8"-16

Minimum order: 10 each.

Flat and Lock Washers are used when attaching Standoffs to panels or substrates.

Flat Washer

Lock Washer

FLAT AND LOCK WASHERS

CAT. NO.	FINISH	TYPE	SIZE
FW38S	304 Stainless	Flat	3/8"-16
LW38S	304 Stainless	Lock	3/8"-16

Minimum order: 10 each.

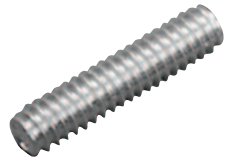
Socket Head Cap Screws are used to secure RS0B20 Standoffs to a steel substrate with a minimum of 3/8" (9.5 mm) of thread engagement. Come 10 per pack.

SOCKET HEAD CAP SCREWS

CAT. NO.	FINISH	SIZE
SHCS38X34	304 Stainless	3/8"-16 x 3/4" (19 mm)

Minimum order: 10 each.

Stainless Steel Allen Screws are available in incremental lengths from 1" (25.4 mm) to 2" (51 mm) for 1-1/2" (38 mm) diameter Standoffs.



ALLEN SCREWS

CAT. NO.	FINISH	SIZE
AS381	304 Stainless	3/8"-16 x 1" (25.4 mm)
AS38114	304 Stainless	3/8"-16 x 1-1/4" (31.7 mm)
AS38112	304 Stainless	3/8"-16 x 1-1/2" (38.1 mm)
AS38134	304 Stainless	3/8"-16 x 1-3/4" (44.4 mm)
AS382	304 Stainless	3/8"-16 x 2" (50.8 mm)

Minimum order: 10 each. Sizes can be combined for quantity pricing.

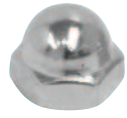
Full 36" (914 mm) lengths of stainless Threaded Rod will permit you to cut Rod to desired length.

THREADED RODS

CAT. NO.	FINISH	SIZE
TR3816X36S	304 Stainless	3/8"-16 x 36" (914 mm)

Minimum order: 1 each.

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

ACORN NUTS

CAT. NO.	FINISH	SIZE
ACN3816S	304 Stainless	3/8"-16 x (914 mm)

Minimum order: 10 each.

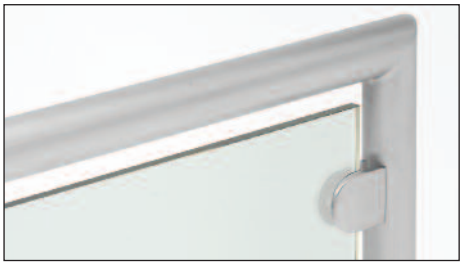
CRL WRS WELDED POST RAILING SYSTEM

CRL WRS Welded Post Railing System for Use With Glass, Cable, and Stainless Diameter Bar Infill Options

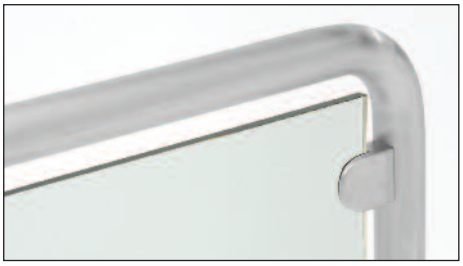
- Fabricated by CRL and Ready to Install
- Components Also Available to Construct Your Own
- Surface Mount, Core Mount, and Fascia Mount Options Available
- Meets and Exceeds Guard Rail Load Requirements
- Square and Round Tubing Profiles
- Many Infill Options to Select From

Two Styles to Select From - Mitered or Bent

Standard Mitered Fabricated Corners



Standard Bent Corners



Standard Welded Intersection

CRL WRS Welded Post Railing Systems are designed to meet and exceed the strictest building code requirement and support a wide range of infill panels. Glass, metal, and stainless steel bars are just a few examples. These innovative systems are designed and fabricated to order based on our customer's requirements. Contact CRL today and let us produce your next custom fabricated welded railing system.

2" (50.8 MM) DIAMETER FABRICATED POST RAIL SYSTEM

CAT. NO.	DESCRIPTION	FINISH
PR1540BS	Fabricated 1.9" O.D. Post Rail System	Brushed Stainless
PR1540PS	Fabricated 1.9" O.D. Post Rail System	Polished Stainless
PR1540M	Fabricated 1.9" O.D. Post Rail System	Mill Finish Aluminum
PR1540SB	Fabricated 2" O.D. Post Rail System	Satin Brass
PR1540PB	Fabricated 2" O.D. Post Rail System	Polished Brass

Minimum order: 1 each.

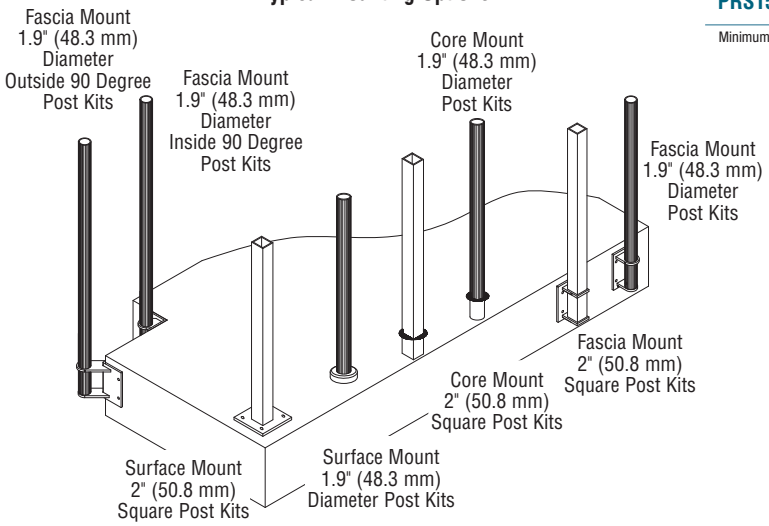
2" (50.8 MM) SQUARE FABRICATED POST RAIL SYSTEM

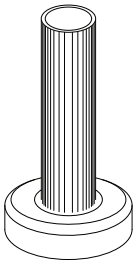
CAT. NO.	DESCRIPTION	FINISH
PRS1540BS	Fabricated 2" O.D. Square Post Rail System	Brushed Stainless
PRS1540PS	Fabricated 2" O.D. Square Post Rail System	Polished Stainless
PRS1540M	Fabricated 2" O.D. Square Post Rail System	Mill Finish Aluminum

Minimum order: 1 each.

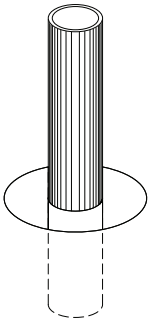
Typical Mounting Options

CRL WRS Welded Post Railing System
Typical Mounting Options

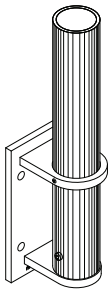




Surface Mounted Installation



Core Mounted Installation



Fascia Mounted Installation

CRL WRS WELDED POST RAILING SYSTEM

CRL "Welded" Post Railing System for Use With Glass Infill Panels

- **Available in 1-1/2" (38.1 mm) Schedule 40 Pipe, 1.90" (48.3 mm) Outside Diameter**
- **Also Available in 2" (50.8 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**

CRL WRS Post Railing Systems for use with glass infill panels are custom fabricated to the customer's specifications. They are available in 1-1/2" (38.1 mm) Schedule 40 Pipe and 2" (50.8 mm) Square Profile Pipe. Other diameters are available on special order. 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 finishes are available on special order. All WRS Post Rails are supplied with Internal Splice Connectors and accessories required for completing the system.

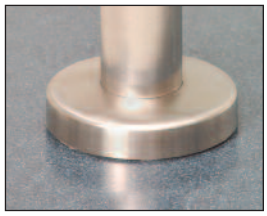
Welded Construction

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 being 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 B314 to B320, or with custom designed brackets to meet any design need.

Various Mounting Options

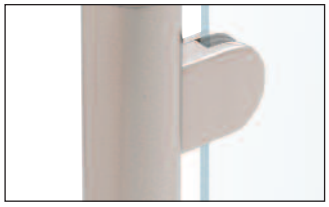


CRL WRS Post Railings can be fabricated with a Welded Floor Flange for surface mounting to various substrates and angles. An optional cover is available to provide a more finished look. See pages B302 to B303.

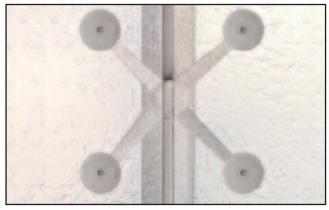
CRL WRS Post Railings can be fabricated for embed mount into the concrete substrate. A minimum 8" (203 mm) embedment depth is required. Always consult local code requirements.

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 B304 to B305.

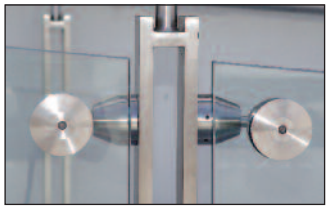
A Variety of Glass Securing Options



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 B279 to B285.



CRL's line of Spider Fittings is especially designed for use on Post Railings. See pages B269 to B277 for details.



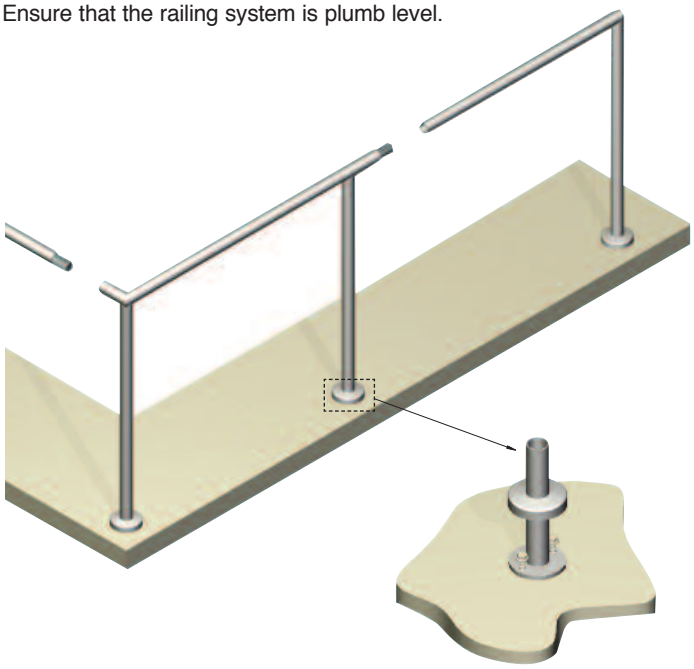
CRL Double Arm Glass Fittings are designed for straight or segmented applications. See pages B262 to B263 for details.

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.

Basic Installation Instructions

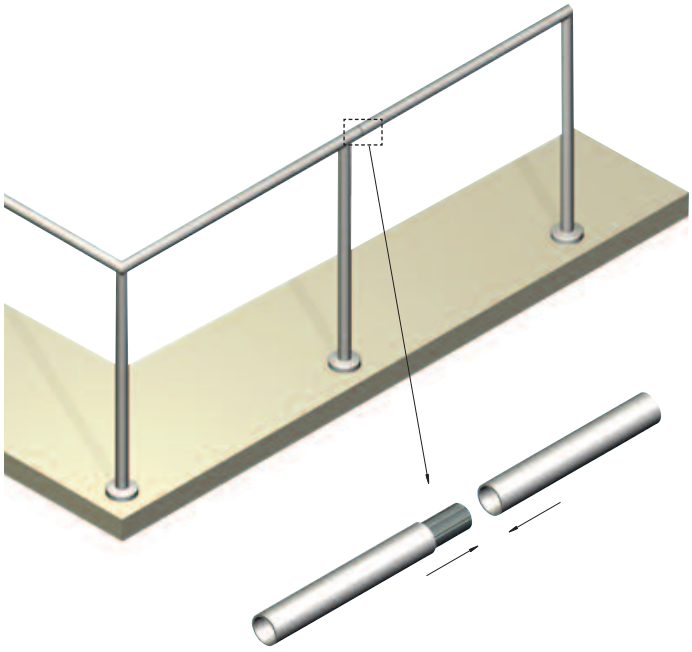
1. Railing Installation

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.



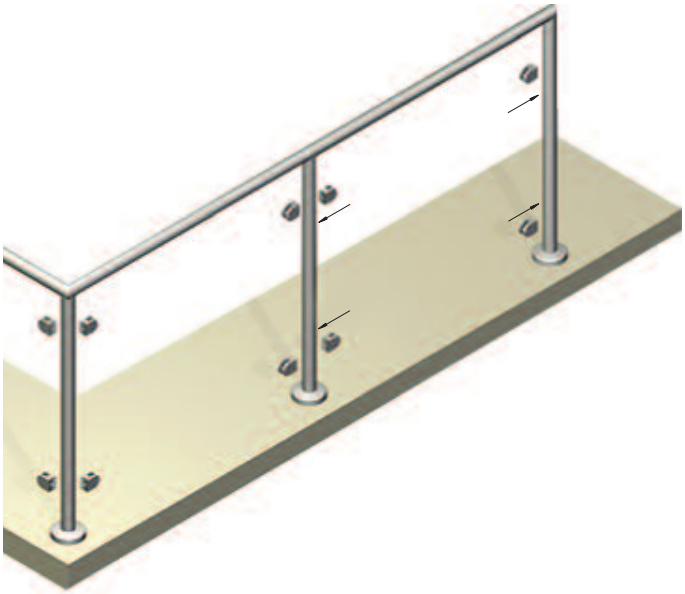
2. Splice Sleeve Installation

Install internal splices at all railing joints with structural silicone (see page B154) or metal contact cement (see page B337) during the assembly of the pre-fabricated sections.



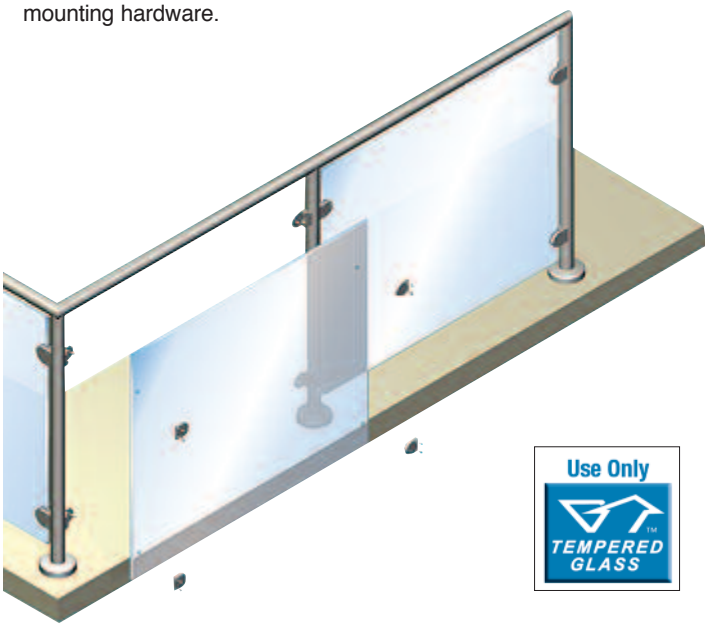
3. Glass Fitting Installation

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)

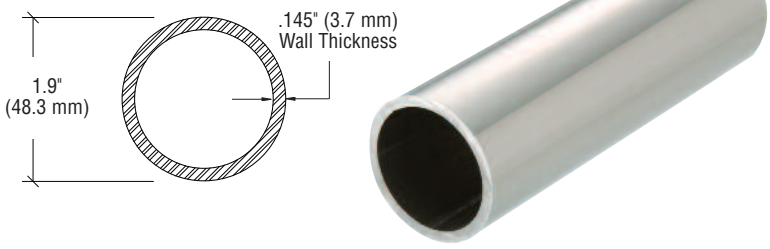
After the railing system has been fully installed, measure to determine your glass panel sizes with hole locations as required. When installing the glass infill panels remember to remove the glass fitting caps or back plate and align the glass panels to the mounting hardware.



CRL WRS WELDED POST RAILING SYSTEM

CRL 1-1/2" Schedule 40 Pipe Rail Tubing

- 1.9" (48.3 mm) Outside Diameter
- Designed for Guard Rail, Hand Rail, Stairway, and Handicap Ramp Areas
- Available in Polished or Brushed Stainless Steel, Mill or Powder Coated Aluminum
- Available in Stock Lengths or Custom Fabricated to Your Specifications



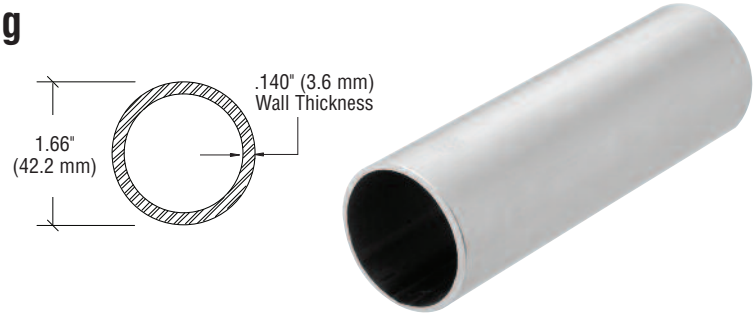
CAT. NO.	FINISH	LENGTH	USE SLEEVE NO.
PR15BS10	Brushed Stainless	120" (3.05 m)	PR19CSS
PR15BS20	Brushed Stainless	240" (6.10 m)	PR19CSS
PR15PS10	Polished Stainless	120" (3.05 m)	PR19CSS
PR15PS20	Polished Stainless	240" (6.10 m)	PR19CSS
HR19M	Mill Finish Aluminum	240" (6.10 m)	GR19CSM

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 areas. Formed using precision tooling to maintain uniform diameters and allowing for smooth hairline transitions at splice and end cap locations. Use of our Cat. No. 32629 Metal Contact Cement (see page B337) is required to achieve a secure and permanent bond at all connections.

CRL 1-1/4" Schedule 40 Pipe Rail Tubing

- 1.66" (42.2 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



CAT. NO.	FINISH	LENGTH	USE SLEEVE NO.
PR12BS10	Brushed Stainless	120" (3.05 m)	PR16CSS
PR12BS20	Brushed Stainless	240" (6.10 m)	PR16CSS
PR12PS10	Polished Stainless	120" (3.05 m)	PR16CSS
PR12PS20	Polished Stainless	240" (6.10 m)	PR16CSS

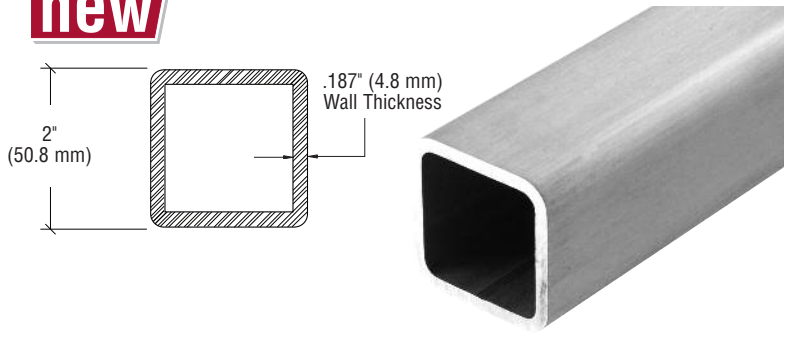
Minimum order: 1 each. All sizes and finishes can be combined for quantity pricing. Must ship via common carrier.

CRL'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 of our Cat. No. 32629 Metal Contact Cement (see page B337) is required to achieve a secure and permanent bond at all connections.

CRL 2" Square O.D. Pipe Rail Tubing

new

- 2" (50.8 mm) Outside Diameter
- Designed for Guard Rail, Hand Rail, Stairway, and Handicap Ramp Areas
- Available in Polished or Brushed Stainless Steel, Mill or Powder Coated Aluminum
- Available in Stock Lengths or Custom Fabricated to Your Specifications



CAT. NO.	FINISH	LENGTH	USE SLEEVE NO.
PR2BS10	Brushed Stainless	120" (3.05 m)	PR20CSS
PR2BS20	Brushed Stainless	240" (6.10 m)	PR20CSS
PR2PS10	Polished Stainless	120" (3.05 m)	PR20CSS
PR2PS20	Polished Stainless	240" (6.10 m)	PR20CSS
PR2M20	Mill Finish Aluminum	240" (6.10 m)	PR20CSS

Minimum order: 1 each. All sizes and finishes can be combined for quantity pricing. Must ship via common carrier.

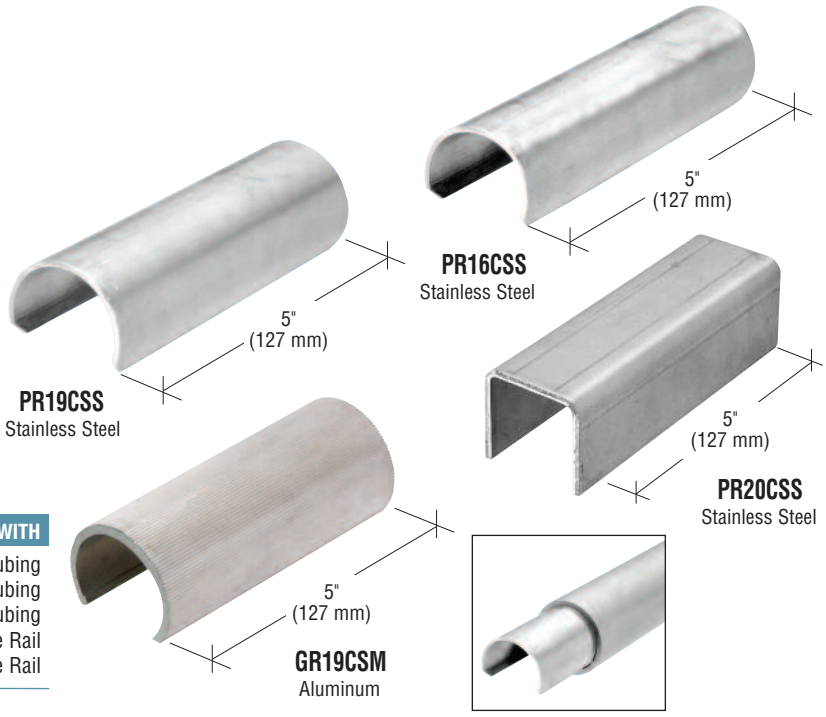
CRL's 2" Square Pipe Rail Tubing is designed for guard rail, hand rail, stairway, and handicap ramp areas. Formed using precision tooling to maintain uniform diameters at all four corners for smooth hairline transitions at splice and end cap locations. Use of our Cat. No. 32629 Metal Contact Cement (see page B337) is required to achieve a secure and permanent bond at all connections.

CRL Pipe Rail Splice Connectors

- **Provides 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. 32629 Metal Contact Cement (see page B337) 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



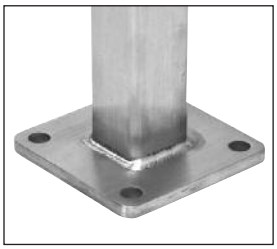
CAT. NO.	MATERIAL	FOR USE WITH
PR16CSS	Stainless Steel	1-1/4" Sch. 40 1.66" (42.2 mm) Tubing
PR19CSS	Stainless Steel	1-1/2" Sch. 40 1.9" (48.3 mm) Tubing
GR19CSM	Mill Finish Aluminum	1-1/2" Sch. 40 1.9" (48.3 mm) Tubing
PR20CSS	Stainless Steel	2" (50.8 mm) Square Pipe Rail
PR20CSM	Mill Finish Aluminum	2" (50.8 mm) Square Pipe Rail

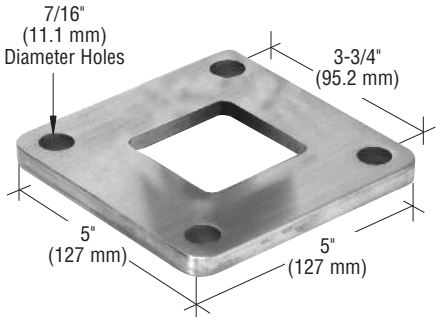
Minimum order: 1 each. All Splice Connectors can be combined for quantity pricing.

CRL Base Flange for 2" Square Pipe Rail

new

- **Flanges for 2" (50.8 mm) O.D. Square Tube**
- **Designed to Be Welded to the Post's Base**
- **For Mounting on Concrete, Steel, or Wood Substrates**
- **Uses 3/8" (9.5 mm) Anchor Bolts**





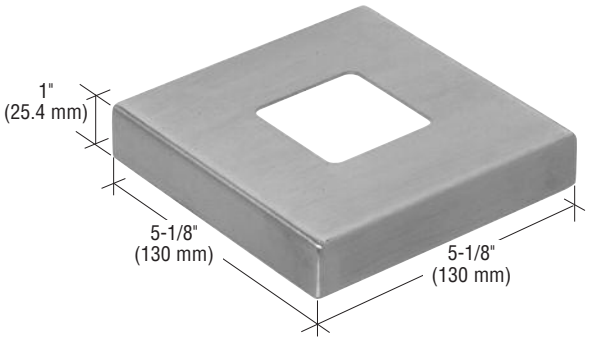
CAT. NO.	DESCRIPTION
PRS2CS	Stainless Base Flange for 2" (50.8 mm) O.D. Square Pipe Rail

Minimum order: 1 each.

CRL Base Flange Covers

new

- **Designed to Cover 5" x 5" (127 x 127 mm) Welded Flanges on 2" (50.8 mm) O.D. Square Tube**
- **1" (25.4 mm) Standard Height**
- **Available in Brushed and Polished Stainless Steel**



This CRL Base Flange Cover for 2" (50.8 mm) O.D. Square Pipe Rail is designed to snap over the 5" x 5" (127 x 127 mm) base plate and conceal the anchor bolts. Use Cat. No. 95CBL Silicone (see page B154) for a secure attachment.

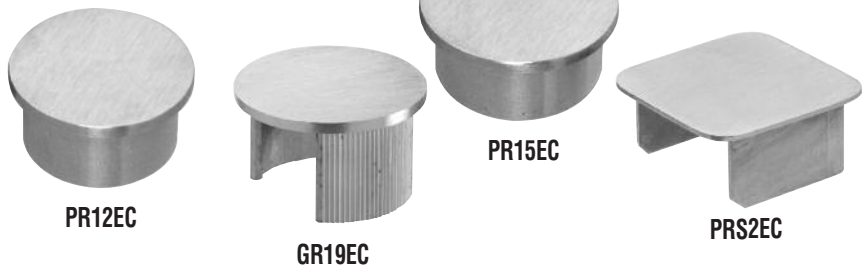
CAT. NO.	FINISH
CR16SPCBS	Brushed Stainless
CR16SPCPS	Polished Stainless

Minimum order: 1 each.

CRL End Caps for Pipe Rails

- **Ready to Install**
- **Two Finishes Plus Mill Aluminum**
- **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. 32629 Metal Contact Cement (see page B337) is required to achieve a secure and permanent bond at all connections.



FOR 1-1/4" (31.8 MM) SCHEDULE 40 PIPE RAIL 1.66" (42.2 MM) O.D.

CAT. NO.	FINISH	FITS PIPE RAIL NO.
PR12ECBS	Brushed Stainless	PR12BS
PR12ECPS	Polished Stainless	PR12PS

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

FOR 1-1/2" (38.1 MM) SCH 40 PIPE RAIL 1.9" (48.2 MM) O.D.

CAT. NO.	FINISH	FITS PIPE RAIL NO.
PR15ECBS	Brushed Stainless	PR15BS
PR15ECPS	Polished Stainless	PR15PS
GR19ECM	Mill Finish Aluminum	HR19M

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

FOR 2" (50.8 MM) 3/16" (4.76 MM) SQUARE PIPE RAIL .187" (4.8 MM) WALL THICKNESS

CAT. NO.	FINISH	FITS PIPE RAIL NO.
PRS2ECBS	Brushed Stainless	PR2BS
PRS2ECPS	Polished Stainless	PR2PS
PRS2ECM	Mill Finish Aluminum	PR2M

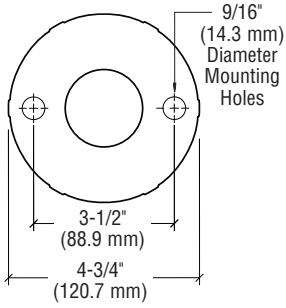
Minimum order: 1 each. All sizes and finishes can be combined for quantity pricing.

CRL Base Flanges for Schedule 40 Pipe Railings

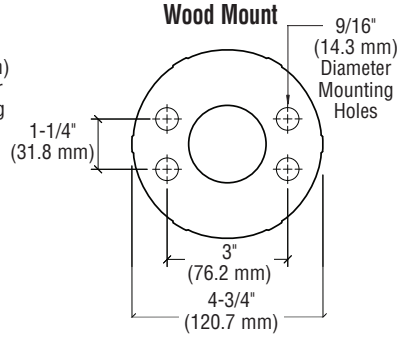
- **Flanges for 1.9" (48.3 mm) O.D. and 1.66" (42.2 mm) O.D. Tube**
- **Designed to Be Welded to the Post Base**
- **Fastened With 3/8" (9.5 mm) Anchor Bolts**

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. Cover Plates are sold separately. (see below).

Concrete/Steel Mount



Wood Mount



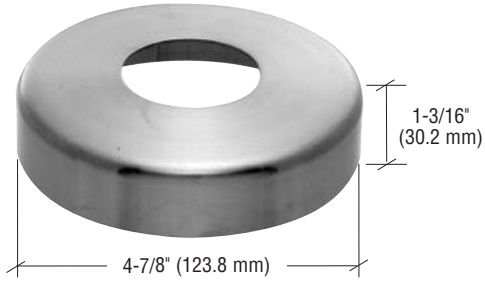
CAT. NO.	DESCRIPTION	MOUNTING STYLE	MATERIAL
PR12FCS	Base Flange for 1-1/4" (31.8 mm) Sch. 40 Pipe Rail	Concrete/Steel Mount	Stainless Steel
PR12FWS	Base Flange for 1-1/4" (31.8 mm) Sch. 40 Pipe Rail	Wood Mount	Stainless Steel
PR15FCS	Base Flange for 1-1/2" (38.1 mm) Sch. 40 Pipe Rail	Concrete/Steel Mount	Stainless Steel
PR15FWS	Base Flange for 1-1/2" (38.1 mm) Sch. 40 Pipe Rail	Wood Mount	Stainless Steel
PR19FCM	Base Flange for 1-1/2" (38.1 mm) Sch. 40 Pipe Rail	Concrete/Steel Mount	Mill Finish Aluminum
PR19FWM	Base Flange for 1-1/2" (38.1 mm) Sch. 40 Pipe Rail	Wood Mount	Mill Finish Aluminum

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

CRL Base Flange Covers

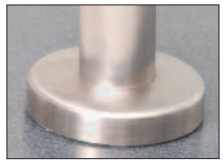
- **Available in Brushed or Polished Stainless Steel**
- **Snap On Covers for Use on Surface, Stair, Ramp or Core Mount Applications**

CRL Covers snap over the base flange to cover the base plate and anchor bolts to dress up the installation.



CAT. NO.	DESCRIPTION	FINISH
CR12SPCBS	Cover for 1-1/4" (31.8 mm) Sch. 40 Pipe Rail	Brushed Stainless
CR12SPCPS	Cover for 1-1/4" (31.8 mm) Sch. 40 Pipe Rail	Polished Stainless
CR15SPCBS	Cover for 1-1/2" (38.1 mm) Sch. 40 Pipe Rail	Brushed Stainless
CR15SPCPS	Cover for 1-1/2" (38.1 mm) Sch. 40 Pipe Rail	Polished Stainless

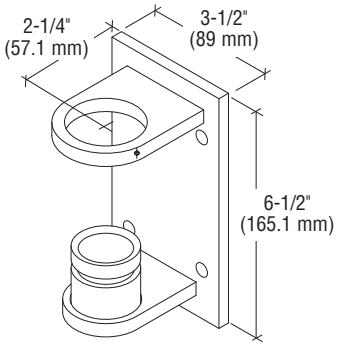
Minimum order: 1 each. All sizes and finishes can be combined for quantity pricing.



CRL 1.9" Round Standard Fascia Mount Bracket

- **For Use With 1-1/2" (38.1 mm) Schedule 40, 1.9" (48.3 mm) O.D. Stainless Steel Center and End Posts**
- **Made From Alloy 316 Stainless Steel**

CRL WRS 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.



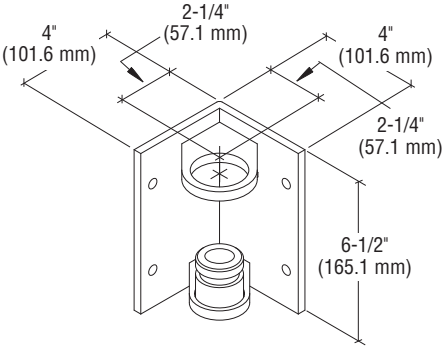
CAT. NO.	FINISH
CR15FBBS	Brushed Stainless Steel
CR15FBPS	Polished Stainless Steel

Minimum order: 1 each. All Fascia Mount Brackets can be combined for quantity pricing.

CRL 1.9" Round Inside Corner Fascia Mount Bracket

- **For Use With 1-1/2" (38.1 mm) Schedule 40, 1.9" (48.3 mm) O.D. Stainless Steel Inside 90 Degree Corner Posts**
- **Made From Alloy 316 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 tubing.



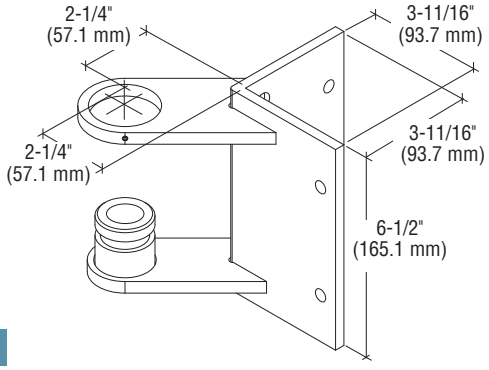
CAT. NO.	FINISH
CR151FBBS	Brushed Stainless Steel
CR151FBPS	Polished Stainless Steel

Minimum order: 1 each. All Fascia Mount Brackets can be combined for quantity pricing.

CRL 1.9" Round Outside Corner Fascia Mount Bracket

- **For Use With 1-1/2" (38.1 mm) Schedule 40, 1.9" (48.3 mm) O.D. Stainless Steel Outside 90 Degree Corner Posts**
- **Made From Alloy 316 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 tubing.



CAT. NO.	FINISH
CR150FBBS	Brushed Stainless Steel
CR150FBPS	Polished Stainless Steel

Minimum order: 1 each. All Fascia Mount Brackets can be combined for quantity pricing.

CRL 2" Square Standard Fascia Mount Bracket

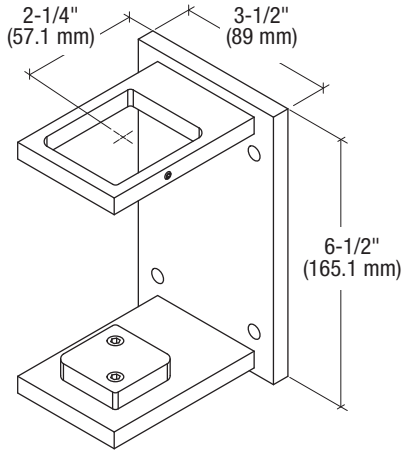
new

- For Use With 2" (50.8 mm) Square .187" (4.8 mm) Wall Thickness Center and End Posts
- Made From Alloy 316 Stainless Steel

CRL WRS Square Standard Fascia Mount Brackets can be use with 2" (50.8 mm) square center and 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.

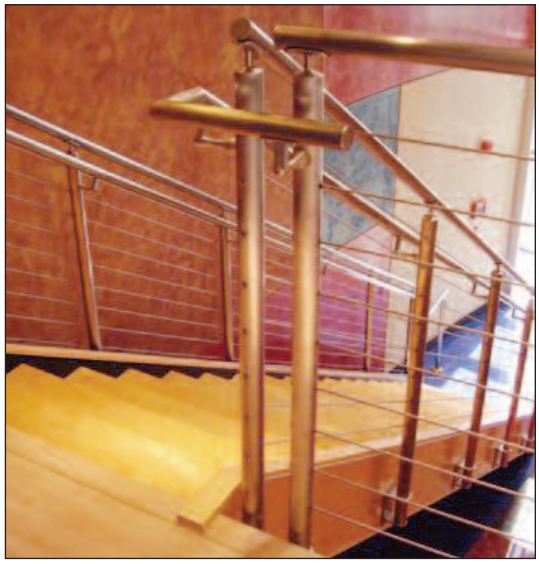
CAT. NO.	FINISH
CR2FBBS	Brushed Stainless Steel
CR2FBPS	Polished Stainless Steel

Minimum order: 1 each. All Fascia Mount Brackets can be combined for quantity pricing.



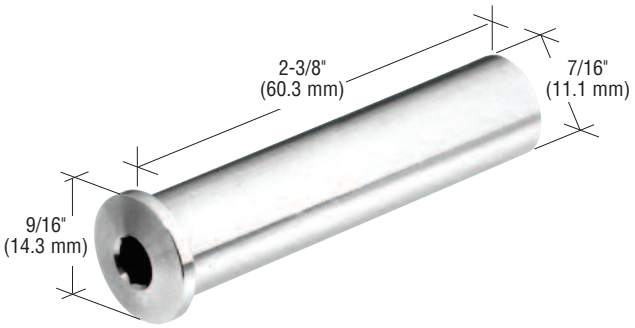
CRL Custom Fabricated Fascia Mounted Brackets

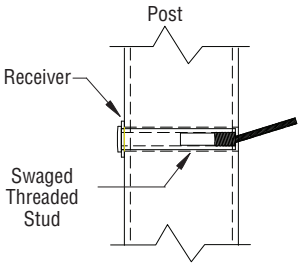
- Brushed or Polished Stainless Steel Finishes
- Custom Fabricated to Meet Your Requirements
- Brackets Available for 1-1/2" (38.1 mm) Sch 40 1.9" (48.3 mm) O.D. Posts and 2" (50.8 mm) Square Posts
- Can Be Attached to Wood, Concrete, and Steel Mounting Surfaces



CRL Tensioning Receiver

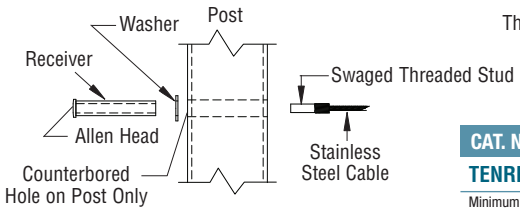
- **Allows 1/8" (3.2 mm) Cable to Be Adjusted Between Spans**
- **Mounts to Aluminum, Wood or Stainless Steel Posts**
- **Type 316 Stainless Steel**





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.

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 1/8" (3.2 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.

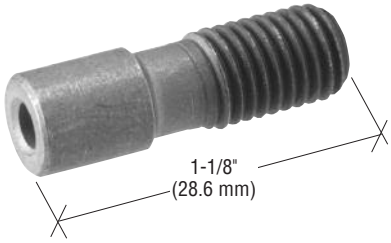


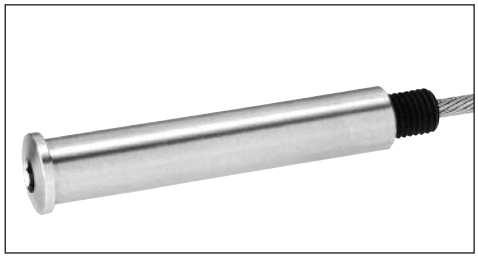
CAT. NO.	FITS CABLE DIAMETER
TENRR1	1/8" (3.2 mm)

Minimum order: 1 each.

CRL Swaging Stud Fitting

- **Secures Our 1 x 19 Type 316 1/8" (3.2 mm) Stainless Steel Cable**
- **Designed for Aluminum, Wood or Stainless Steel Post Applications**





Threads into Cat. No. TENRR1 Tensioning Receiver

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" (3.2 mm) diameter Cable.

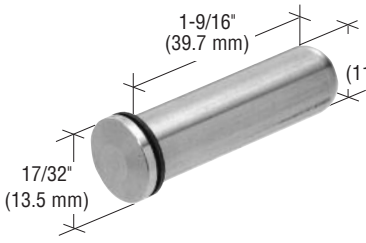
CAT. NO.	FITS CABLE DIAMETER
SWGST1	1/8" (3.2 mm)

Minimum order: 1 each.

CRL Push-Lock Fitting

- **For Use With Our 1 x 19 Type 316 1/8" (3.2 mm) Stainless Steel Cable**

The CRL Push-Lock Fitting is designed to be used on 1/8" (3.2 mm) Cable. When used with an end post 1-1/2" (38.1 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.

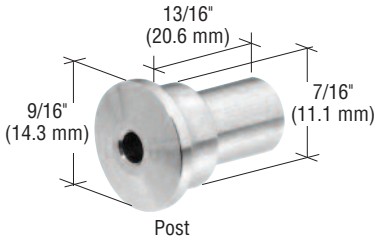


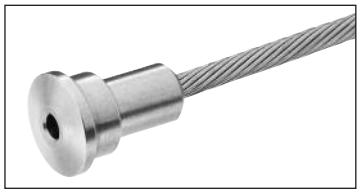
CAT. NO.	FITS CABLE DIAMETER
PL4SS	1/8" (3.2 mm)

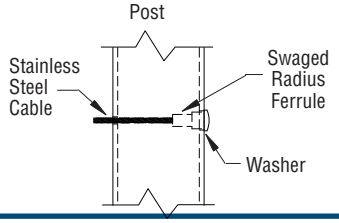
Minimum order: 1 each.

CRL Ferrule Fitting

- **For Use on the Fixed, Non-Tensioning End of Our 1 x 19 Type 316 1/8" (3.2 mm) 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" (3.2 mm) diameter Cable. This Fitting must be installed using a Swager Tool (see page B507).

CAT. NO.	FITS CABLE DIAMETER
FXFRL1	1/8" (3.2 mm)

Minimum order: 1 each.

CRL "Welded" Post Railing System With Cable Infill

- Available in 1-1/2" (38.1 mm) Schedule 40 Pipe, 1.90" (48.3 mm) Outside Diameter
- Polished or Brushed Stainless Steel, and Mill or Powder Coated Aluminum Finishes
- Uses 1/8" (3.2 mm) Diameter 1 x 19 Type 316 Stainless Steel Uncoated Cable
- Custom Fabricated to Your Specifications

CRL WRS Post Railing Systems for Cable are custom fabricated to the customer's specifications. They are available in 1-1/2" (38.1 mm) Schedule 40 Pipe. Other diameters are available on special order. Polished stainless steel or brushed stainless steel finishes are available from stock, as well as mill or powder coated aluminum. Other 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, see pages B507 to B509.

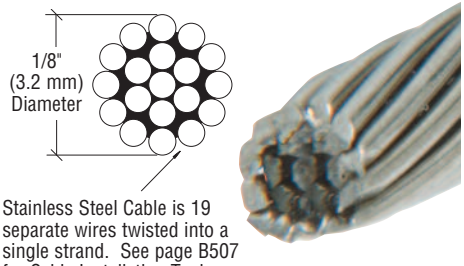
CAT. NO.	DESCRIPTION	FINISH
PRC1540BS	Fabricated 1-1/2" Sch. 40 1.9" O.D. Post Rail System with Cable	Brushed Stainless Steel
PRC1540PS	Fabricated 1-1/2" Sch. 40 1.9" O.D. Post Rail System with Cable	Polished Stainless Steel
PRC1540M	Fabricated 1-1/2" Sch. 40 1.9" O.D. Post Rail System with Cable	Aluminum Powder Coat

Drawings (with dimensions are required) for quotes and order request.

CRL 1/8" Stainless Steel Cable

- 1/8" (3.2 mm) Diameter 1 x 19 Type 316 Stainless Steel Cable
- Uncoated and Low Maintenance

CRL 1/8" (3.2 mm) Stainless Steel Cable is made to hold static loads without stretching, and is relatively stiff. Recommended spacing between cables is 3" (76.2 mm) center-to-center. Order Cable in rolls, pre-cut kits with hardware, or we can custom cut it to your required length (see below).



Stainless Steel Cable is 19 separate wires twisted into a single strand. See page B507 for Cable Installation Tools.

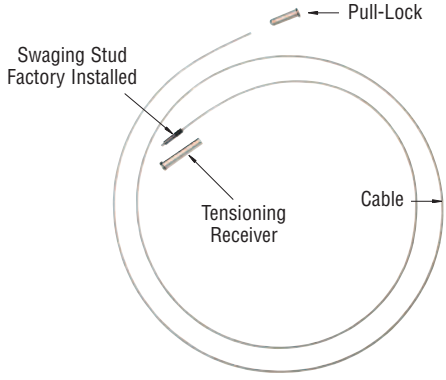
CAT. NO.	ROLL LENGTH
CBL18	250' (76.2 m)

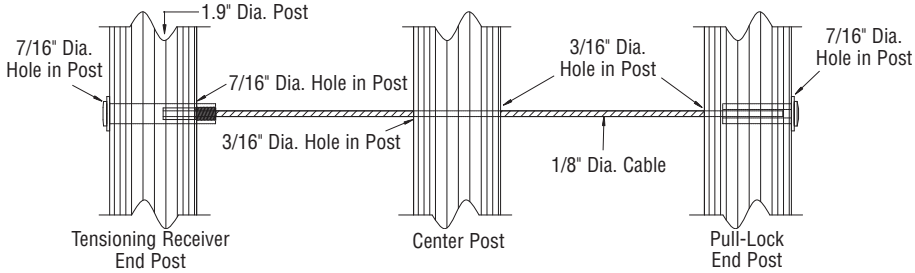
Minimum order: 1 roll.

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 and custom lengths. Included with each Kit; one pre-cut 1/8" (3.2 mm) diameter 1 x 19 Type 316 Stainless Steel Cable, one Cat. No. SWGST1 Swaging Stud factory installed on Cable, one Cat. No. TENRR1 Tensioning Receiver, and one Cat. No. PUL4SS Pull-Lock. Recommended maximum spacing between cables is 3" (76.2 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' (15.2 m). Post spacing is not to exceed 42" (1.06 m) on center.





CAT. NO.	LENGTH
CBL188K	8' (2.4 m)
CBL1818K	18' (5.5 m)
CBL1836K	36' (11 m)
CBL1851K	51' (15.5 m)
CBL18KC	*Custom Length

Minimum order: 1 each. *Must specify custom length at time of order.

CRL WRS WELDED POST RAILING SYSTEM

WRS Quote/Order Request Form

Fax Completed Checklist to C.R. Laurence Technical Sales at (800) 587-7501 in the U.S., or (323) 584-5289 (Canada and International). Then call to discuss: (800) 421-6144 (U.S.), (877) 421-6144 (Canada), or (323) 588-1281 (International). Ask for Extension 7730. This form is also available online at **crlaurence.com**.

Company Name _____ Phone # _____

Contact _____ Fax # _____

Job Name _____ Date _____

When you are ready to order, utilize this form to assist you in covering the details required to complete a Welded Post Railing System installation. Going through this exercise should prevent you from overlooking any details related to your installation.

IMPORTANT: Depending on the complexity of your project, one or more of the following may be required to accurately order: sketches or drawings of your particular application with dimensions; printed architectural drawings or CAD files; photos of the job site conditions (digital images are preferable). **NOTE:** Stairway applications will require additional layout drawing on page B268 that needs to be filled out at time of order. A final sign off is required prior to any custom fabrication.

RAILING HEIGHT
- ❑ 36" (914 mm)
- ❑ 42" (1067 mm)
- ❑ Other (Specify)_____

POST ATTACHMENT
- ❑ Surface Mount (Top of Substrate)
- ❑ Core Mount
- ❑ Fascia Mount
- ❑ Other _____

OPTIONAL HAND RAIL
- ❑ 1-1/2" (38.1 mm) Dia. .050 Wall Thickness
- ❑ 2" (50.8 mm) Dia. .050 Wall Thickness
- ❑ Other (Specify)_____
- ❑ None Required

TOP RAIL SIZE
- ❑ 1-1/4" Sch. 40 1.66" (42.2 mm) O.D.
- ❑ 1-1/2" Sch. 40 1.9" (48.3 mm) O.D.
- ❑ Other (Specify)_____

POST SIZE
- ❑ 1-1/4" Schedule 40 1.66" (42.2 mm) O.D.
- ❑ 1-1/2" Schedule 40 1.9" (48.3 mm) O.D.
- ❑ 2" (50.8 mm) O.D. Square
- ❑ Other (Specify) _____

SUBSTRATE
- ❑ Concrete
- ❑ Steel
- ❑ Wood
- ❑ Waterproof
- ❑ Other (Specify) _____

GLASS ATTACHMENT
- ❑ Z- Series Clamps
- ❑ RB50 Swivel Attachment Fittings
- ❑ RB50 Fixed Attachment Fittings
- ❑ RB51 Fixed Attachment Fittings
- ❑ Spider Fittings
- ❑ Custom Welded Standoff Arms
- ❑ Other _____
- ❑ None

RAILING INFILL
- ❑ 1/2" (12 mm) Glass
- ❑ 3/8" (10 mm) Glass
- ❑ 1/8" (3.2 mm) Dia. Cable*
- ❑ 3/16" (4.8 mm) Dia. Cable*
- ❑ Stainless Steel Bars*
- ❑ Other (Specify) _____

(Glass not supplied by CRL)

*Must be ordered separately

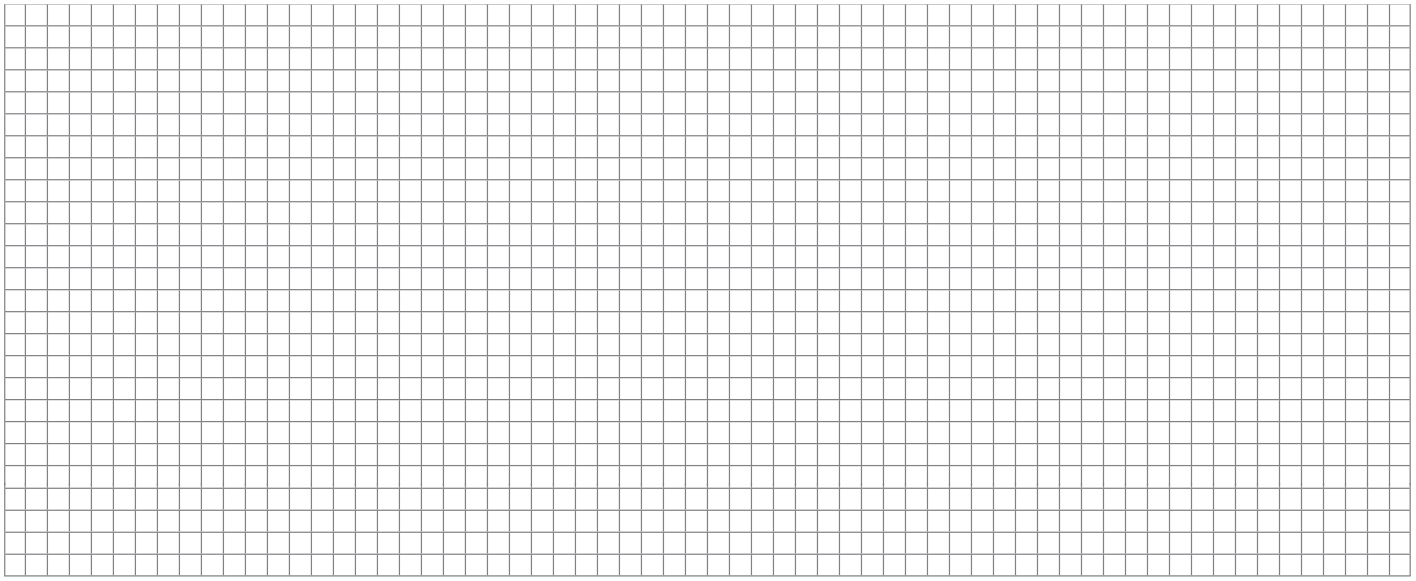
FLOOR CONDITION
- ❑ Flat
- ❑ Sloped (Degrees) _____

END CAPS
- ❑ Applied Flat End Caps
- ❑ Welded Flat End Caps
- ❑ Welded Dome End Caps
- ❑ Other (Specify) _____
- ❑ None

FINISH
- ❑ Brushed Stainless Steel
- ❑ Polished Stainless Steel
- ❑ Polished Brass
- ❑ Satin Brass
- ❑ Powder Coated Aluminum
- ❑ Custom (Specify) _____

TOP RAIL CONNECTION
- ❑ Standard Coped (Welded Post to Top Rail)
- ❑ Standoff Saddle (Mechanically Attached Post to Top Rail)

LAYOUT GRID TO SKETCH DESIGN

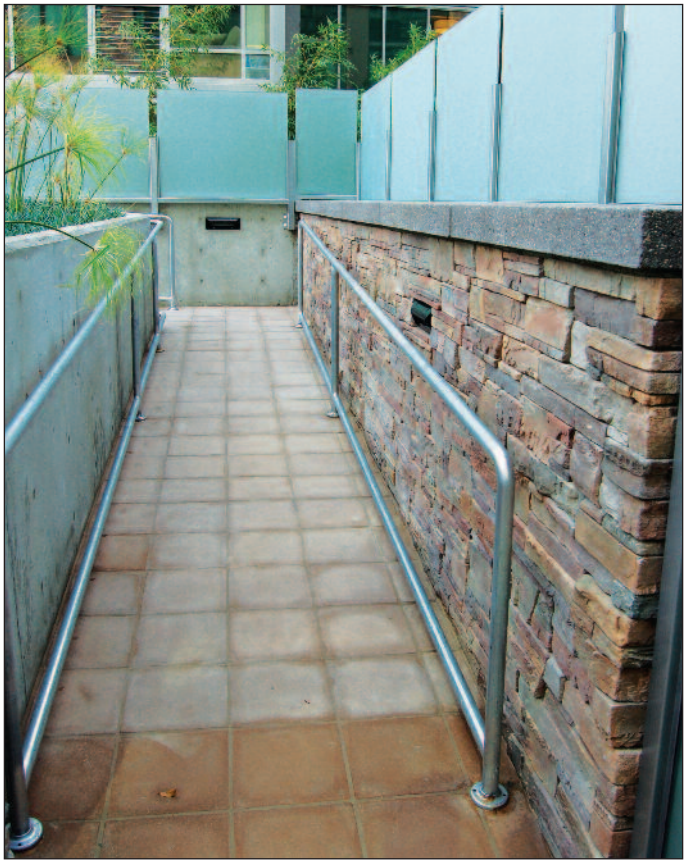


CRL WRS WELDED POST RAILING SYSTEM

(WRS) Welded Railing System With Cable Infills at Stair Location

(WRS) Welded Railing System With Glass Infills at Stair Location

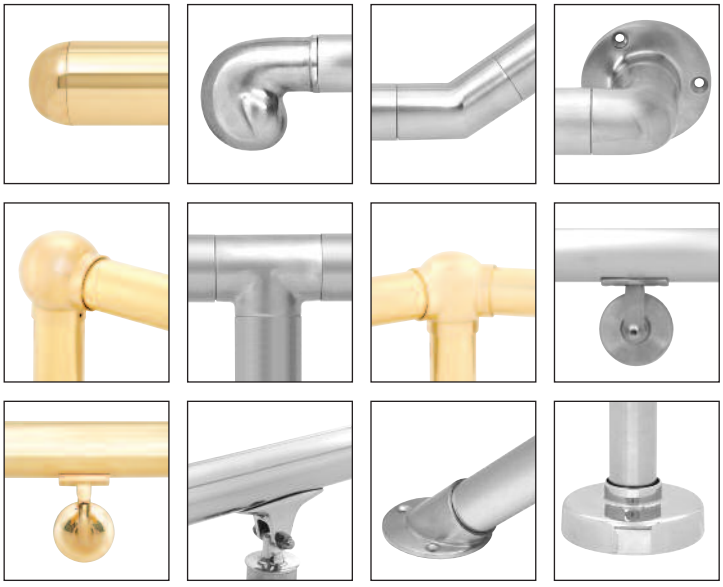
(WRS) Welded Railing System at Stair Location



(WRS) Welded Railing System at Ramp Location

CRL HRS Hand Rail Tubing and Components

- **Designed for Commercial and Residential Applications**
- **Utilizes 1-1/2" (38.1 mm) and 2" (50.8 mm) Tubing as Well as 1-1/2" (38.1 mm) Schedule 40 Aluminum Pipe [1.9" (48.3 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 .050" (1.27 mm) wall thickness. Our Heavy Wall Hand Rail Tubing is made of stainless steel or aluminum with a hefty .145" (3.68 mm) wall for added strength. For complete information on HRS Hand Rails, see the following pages B311-B341.

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 spiral sanding, as well as mechanical sanding and 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 through our web site at **crlaurence.com**. From the home page click on Contact Us, and then click on Technical Sales for Railing Products.

CRL Hand Railing Tubing

- **Available in Round and Square Profiles**
- **Five Architectural Finishes Plus Mill Aluminum**
- **Ready to Install**
- **Requires End Caps or Connector Sleeves (Not Included)**

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 of our Cat. No. 32629 Metal Contact Cement (see page B337) is required to achieve a secure and permanent bond at all connections.

Standard stainless alloy is 304. Stainless alloy 316 is available on special order. Standard brass alloy is 260. Standard aluminum alloy is 6063-T6. Contact CRLTechnical Sales for more information or a quote. **NOTE:** Tubing is not designed for guard rail posts or top rails.

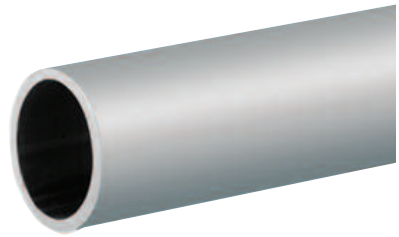
Brushed Stainless Steel

Polished Stainless Steel

Polished Brass

Dark Bronze Anodized Aluminum

Satin Anodized Aluminum



Mill Aluminum

Brushed Stainless Steel

Polished Stainless Steel

1-1/2" (38.1 MM) DIAMETER HAND RAIL TUBING

CAT. NO.	FINISH	WALL THICKNESS	LENGTH	USE SLEEVE NO.
HR15BS	Brushed Stainless	.050" (1.27 mm)	236" (6.0 m)	GR15CSS
HR15PS	Polished Stainless	.050" (1.27 mm)	236" (6.0 m)	GR15CSS
HR15PB	Polished Brass	.050" (1.27 mm)	216" (5.49 m)	GR15CSB

Minimum order: 1 each. All Hand Rail Tubing can be combined for quantity pricing. Must ship via common carrier.

1-1/2" (38.1 MM) SQUARE HAND RAIL TUBING

CAT. NO.	FINISH	WALL THICKNESS	LENGTH	USE SLEEVE NO.
HRS15BS	Brushed Stainless	.050" (1.27 mm)	236" (6.0 m)	GRS15CSS
HRS15PS	Polished Stainless	.050" (1.27 mm)	236" (6.0 m)	GRS15CSS

Minimum order: 1 each. All Hand Rail Tubing can be combined for quantity pricing. A Packing Charge will be added to orders fewer than five lengths. Must ship via common carrier.

2" (50.8 MM) DIAMETER HAND RAIL TUBING

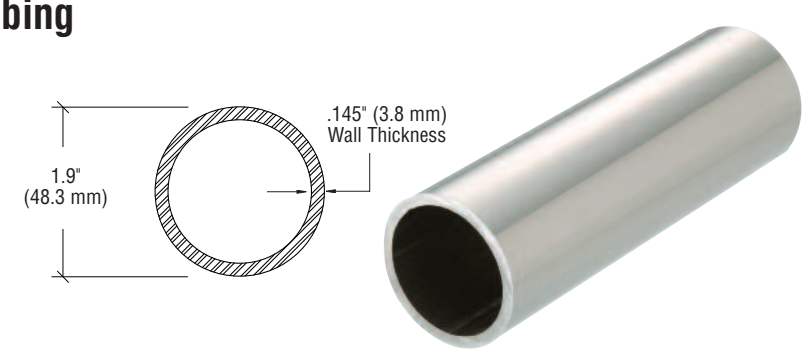
CAT. NO.	FINISH	WALL THICKNESS	LENGTH	USE SLEEVE NO.
HR20BS	Brushed Stainless	.050" (1.27 mm)	236" (6.0 m)	GR20CSS
HR20PS	Polished Stainless	.050" (1.27 mm)	236" (6.0 m)	GR20CSS
HR20PB	Polished Brass	.050" (1.27 mm)	216" (5.49 m)	GR20CSB

Minimum order: 1 each. All Hand Rail Tubing can be combined for quantity pricing. Must ship via common carrier.

CRL HRS HAND RAILING SYSTEMS

CRL 1-1/2" Schedule 40 Pipe Rail Tubing

- Designed for Guard Rail, Hand Rail, Stairway, and Handicap Ramp Areas
- 1.9" (48.3 mm) Outside Diameter
- Five Architectural Finishes Plus Mill Aluminum
- Available in Stock Lengths or Custom Fabricated to Your Specifications



1-1/2" (38.1 MM) SCHEDULE 40 PIPE RAIL TUBING

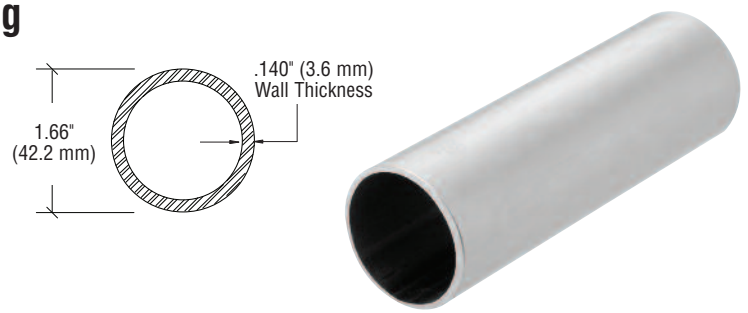
CAT. NO.	FINISH	WALL THICKNESS	LENGTH	USE SLEEVE NO.
PR15BS10	Brushed Stainless	.145" (3.8 mm)	120" (3.05 m)	PR19CSS
PR15BS20	Brushed Stainless	.145" (3.8 mm)	240" (6.10 m)	PR19CSS
PR15PS10	Polished Stainless	.145" (3.8 mm)	120" (3.05 m)	PR19CSS
PR15PS20	Polished Stainless	.145" (3.8 mm)	240" (6.10 m)	PR19CSS
HR19M	Mill Finish Aluminum	.145" (3.8 mm)	240" (6.10 m)	GR19CSM
HR19SA	Satin Anodized	.145" (3.8 mm)	240" (6.10 m)	GR19CSM
HR19DU	Dark Bronze Anodized	.145" (3.8 mm)	240" (6.10 m)	GR19CSM

Minimum order: 1 each. All Hand Rail Tubing 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 areas. Formed using precision tooling to maintain uniform diameters and allowing for smooth hairline transitions at splice and end cap locations. Use of our Cat. No. 32629 Metal Contact Cement (see page B337) is required to achieve a secure and permanent bond at all connections.

CRL 1-1/4" Schedule 40 Pipe Rail Tubing

- Designed for Guard Rail, Hand Rail, Stairway, and Handicap Ramp Areas
- 1.66" (42.2 mm) Outside Diameter
- Polished or Brushed Stainless Steel Available in Stock Lengths or Custom Fabricated to Your Specifications



1-1/4" (31.8 MM) SCHEDULE 40 PIPE RAIL TUBING

CAT. NO.	FINISH	WALL THICKNESS	LENGTH	USE SLEEVE NO.
PR12BS10	Brushed Stainless	.140" (3.6 mm)	120" (3.05 m)	PR16CSS
PR12BS20	Brushed Stainless	.140" (3.6 mm)	240" (6.10 m)	PR16CSS
PR12PS10	Polished Stainless	.140" (3.6 mm)	120" (3.05 m)	PR16CSS
PR12PS20	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'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 ends cap locations. Use of our Cat. No. 32629 Metal Contact Cement (see page B337) is required to achieve a secure and permanent bond at all connections.

CRL 1-1/2" O.D. Pipe Rail Tubing

new

- Designed for Guard Rail, Hand Rail, Stairway, and Handicap Ramp Areas
- 1-1/2" (38.1 mm) O.D. Outside Diameter
- Stainless Steel or Aluminum Available in Stock Lengths or Custom Fabricated to Your Specifications

1-1/2" (38.1 MM) O.D. PIPE RAIL TUBING

CAT. NO.	FINISH	WALL THICKNESS	LENGTH	USE SLEEVE NO.
HRH15BS	Brushed Stainless	.125" (3.2 mm)	240" (6.10 m)	HR15CSS
HRH15PS	Polished Stainless	.125" (3.2 mm)	240" (6.10 m)	HR15CSS
ARHR15CRM	Mill Finish Aluminum	.125" (3.2 mm)	241" (6.12 m)	RCB36

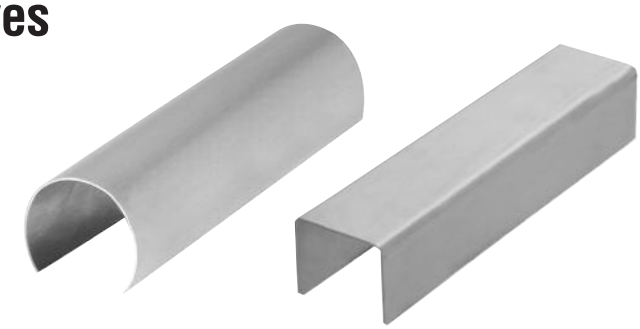
Minimum order: 1 each. All Hand Rail Tubing can be combined for quantity pricing. Must ship via common carrier.

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 of our Cat. No. 32629 Metal Contact Cement (see page B337) is required to achieve a secure and permanent bond at all connections.

CRL Hand Railing 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 Railing splices. The 5" (127 mm) long Connector Sleeves must be compressed to fit inside the Hand Railing. Use of our Cat. No. 32629 Metal Contact Cement (see page B337) is required to achieve a secure and permanent bond at all connections.



CONNECTOR SLEEVES FOR 1-1/2" (38.1 MM) TUBING

CAT. NO.	MATERIAL	FOR USE WITH
GR15CSS	Stainless Steel	HR15BS/HR15PS 1-1/2" (38.1 mm) Stainless Steel Hand Railing Tubing
GR15CSB	Brass	HR15PB 1-1/2" (38.1 mm) Brass Hand Railing Tubing
PR19CSS	Stainless Steel	PR15BS/PR15PS 1-1/2" (38.1 mm) Schedule 40 Stainless Steel Hand Railing Tubing

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

CONNECTOR SLEEVE FOR 1-1/2" (38.1 MM) SQUARE TUBING

CAT. NO.	MATERIAL	FOR USE WITH
GRS15CSS	Stainless Steel	HRS15BS/HRS15PS 1-1/2" (38.1 mm) Stainless Steel Square Hand Railing Tubing

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

CONNECTOR SLEEVE FOR 1.9" (48.3 MM) TUBING

CAT. NO.	MATERIAL	FOR USE WITH
GR19CSM	Mill Aluminum	HR19M/HR19SA/HR19DU 1.9" (48.3 mm) Aluminum Hand Railing Tubing

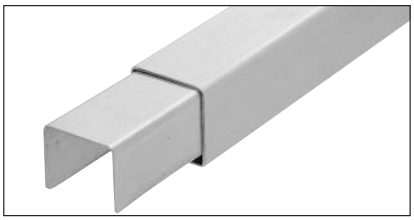
Minimum order: 1 each. All Connector Sleeves can be combined for quantity pricing.

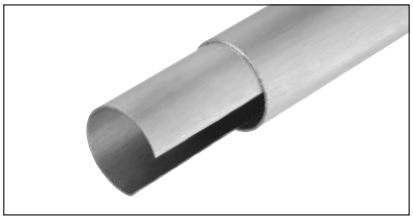
CONNECTOR SLEEVES FOR 2" (50.8 MM) TUBING

CAT. NO.	MATERIAL	FOR USE WITH
GR20CSS	Stainless Steel	HR20BS/HR20PS 2" (50.8 mm) Stainless Steel Hand Railing Tubing
GR20CSB	Brass	HR20PB 2" (50.8 mm) Brass Hand Railing Tubing

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.

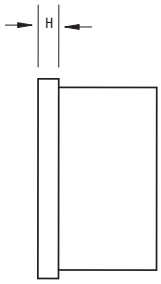




CRL Flat End Caps

- **Five Architectural Finishes Plus Mill Aluminum**

CRL Flat End Caps are ready to install, and easily slip into our Hand Railing Tubing. Use our Cat. No. 32629 Metal Contact Cement (see page B337) to achieve a secure and permanent bond. Finishes are stocked to match all of our Hand Railing Tubing.



FLAT END CAPS FOR 1-1/4" (31.8 MM) SCHEDULE 40 TUBING 1.66" (42.2 MM) O.D.

CAT. NO.	FINISH	"H" HEIGHT
PR12ECBS	Brushed Stainless	1/8" (3.2 mm)
PR12ECPS	Polished Stainless	1/8" (3.2 mm)

Minimum order: 1 each. All Railing End Caps can be combined for quantity pricing.

FLAT END CAPS FOR 1-1/2" (38.1 MM) SCHEDULE 40 TUBING 1.9" (48.3 MM) O.D.

CAT. NO.	FINISH	"H" HEIGHT
PR15ECBS	Brushed Stainless	1/8" (3.2 mm)
PR15ECPS	Polished Stainless	1/8" (3.2 mm)
GR19ECM	Mill Aluminum	1/8" (3.2 mm)
GR19ECSA	Satin Anodized	1/8" (3.2 mm)
GR19ECDU	Dark Bronze Anodized	1/8" (3.2 mm)

Minimum order: 1 each. All Railing End Caps can be combined for quantity pricing.

FLAT END CAPS FOR 1-1/2" (38.1 MM) O.D. THIN WALL TUBING

CAT. NO.	FINISH	"H" HEIGHT
HR15FBS	Brushed Stainless	5/32" (4 mm)
HR15FPS	Polished Stainless	5/32" (4 mm)
HR15FPB	Polished Brass	5/32" (4 mm)

Minimum order: 1 each. All Railing End Caps can be combined for quantity pricing.

FLAT END CAPS FOR 1-1/2" (38.1 MM) SQUARE THIN WALL TUBING

CAT. NO.	FINISH	"H" HEIGHT
SA10BS	Brushed Stainless	1/8" (3.2 mm)
SA10PS	Polished Stainless	1/8" (3.2 mm)

Minimum order: 1 each. All Railing End Caps can be combined for quantity pricing.

FLAT END CAPS FOR 2" (50.8 MM) O.D. THIN WALL TUBING

CAT. NO.	FINISH	"H" HEIGHT
HR20FBS	Brushed Stainless	1/8" (3.2 mm)
HR20FPS	Polished Stainless	1/8" (3.2 mm)
HR20FPB	Polished Brass	1/8" (3.2 mm)

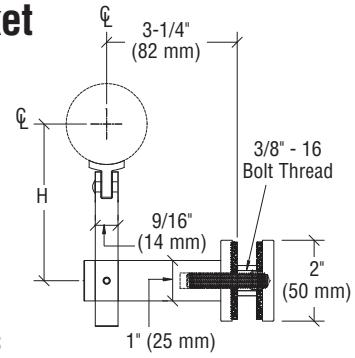
Minimum order: 1 each. All Railing End Caps can be combined for quantity pricing.

CRL HRS HAND RAILING SYSTEMS

CRL Sunset Series Glass Mounted Hand Rail Bracket

new

- 3-Way Adjustable
- Ready to Install
- Two Architectural Finishes
- For 1-1/2", 1.9" or 2" (38.1, 48.3 or 50.8 mm) Diameter Hand Rail Tubing
- Designed for 1/2" to 1-1/16" (12 to 25.52 mm) Glass Thickness



Two Flat Head Phillips Self-Drilling 8-18 x 3/4" Stainless Steel Screws Included

- 316 Grade Stainless Steel

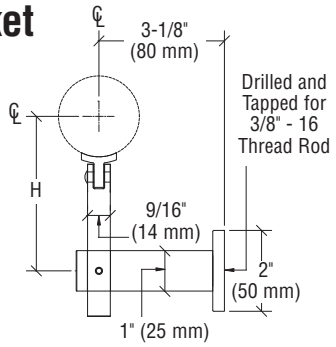
CAT. NO.	FINISH	C/L-"W"	1-1/2" C/L-"H"	1.9" & 2" C/L-"H"
HR2JGBS	316 Brushed Stainless	3-1/4" (82 mm)	3-1/4" (82 mm)	1-9/16"- 3-1/4" (40-80 mm)
HR2JGPS	316 Polished Stainless	3-1/4" (82 mm)	3-1/4" (82 mm)	1-9/16"- 3-1/4" (40-80 mm)

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

CRL Sunset Series Wall Mounted Hand Rail Bracket

new

- 3-Way Adjustable
- Ready to Install
- Two Architectural Finishes
- For 1-1/2", 1.9" or 2" (38.1, 48.3 or 50.8 mm) Diameter Hand Rail Tubing



Two Flat Head Phillips Self-Drilling 8-18 x 3/4" Stainless Steel Screws Included

- 316 Grade Stainless Steel

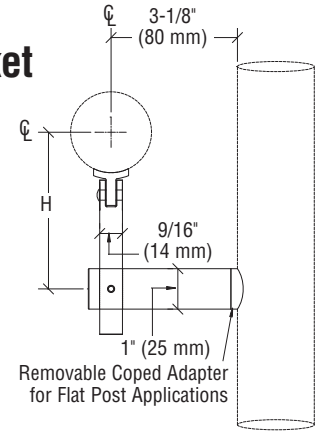
CAT. NO.	FINISH	C/L-"W"	1-1/2" C/L-"H"	1.9" & 2" C/L-"H"
HR2JWBS	316 Brushed Stainless	3-1/8" (80 mm)	1-9/16" - 3-1/4" (40-80 mm)	1-9/16" - 3-1/4" (40-80 mm)
HR2JWPS	316 Polished Stainless	3-1/8" (80 mm)	1-9/16" - 3-1/4" (40-80 mm)	1-9/16" - 3-1/4" (40-80 mm)

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

CRL Sunset Series Post Mounted Hand Rail Bracket

new

- 3-Way Adjustable
- Ready to Install
- Two Architectural Finishes
- For 1-1/2", 1.9" or 2" (38.1, 48.3 or 50.8 mm) Diameter Hand Rail Tubing
- Can Also Be Mounted to Flat Surfaces



Two Flat Head Phillips Self-Drilling 8-18 x 3/4" Stainless Steel Screws Included

- 316 Grade Stainless Steel

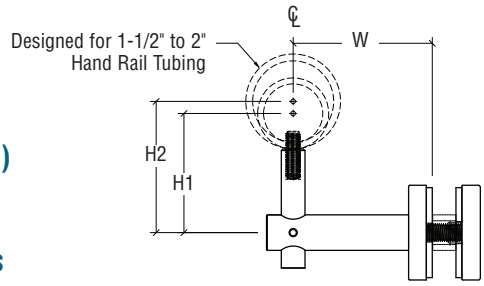
CAT. NO.	FINISH	C/L-"W"	1-1/2" C/L-"H"	1.9" & 2" C/L-"H"
HR2JPBS	316 Brushed Stainless	3-1/8" (80 mm)	1-9/16" - 3-1/4" (40-80 mm)	1-9/16" - 3-1/4" (40-80 mm)
HR2JPPS	316 Polished Stainless	3-1/8" (80 mm)	1-9/16" - 3-1/4" (40-80 mm)	1-9/16" - 3-1/4" (40-80 mm)

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

CRL Coastal Series Glass Mounted Hand Rail Bracket

new

- 2-Way Adjustable
- Ready to Install
- Two Architectural Finishes Plus Mill Aluminum
- For 1-1/2" to 2" (38.1 to 50.8 mm) Diameter Hand Rail Tubing
- Designed for 1/2" to 1-1/16" (12 to 25.52 mm) Glass Thickness



- 316 Grade Stainless Steel

Not for use with thin wall .050" hand rail tubing without the use of CRL's Riv-Nut system. Heavy wall tubing is recommended for this bracket.

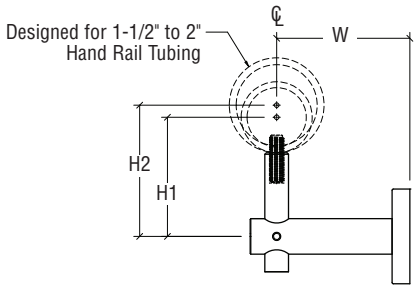
CAT. NO.	FINISH	C/L-"W"	1-1/2" & 1.66" C/L-"H1"	1.9" & 2" C/L-"H2"
HR2FGBS	316 Brushed Stainless	2-15/16" (75 mm)	2-1/2" (63.5 mm)	2-11/16" (68 mm)
HR2FGPS	316 Polished Stainless	2-15/16" (75 mm)	2-1/2" (63.5 mm)	2-11/16" (68 mm)
HR2FGMA	6063 Mill Aluminum	2-15/16" (75 mm)	2-1/2" (63.5 mm)	2-11/16" (68 mm)

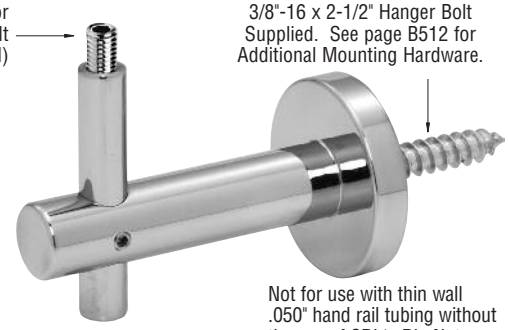
Minimum order: 1 each. All Railing Brackets can be combined for quantity pricing.

CRL Coastal Series Wall Mounted Hand Rail Bracket

new

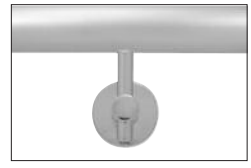
- 2-Way Adjustable
- Ready to Install
- Two Architectural Finishes Plus Mill Finish Aluminum
- For 1-1/2" to 2" (38.1 to 50.8 mm) Diameter Hand Rail Tubing





- 316 Grade Stainless Steel

Not for use with thin wall .050" hand rail tubing without the use of CRL's Riv-Nut system. Heavy wall tubing is recommended for this bracket.



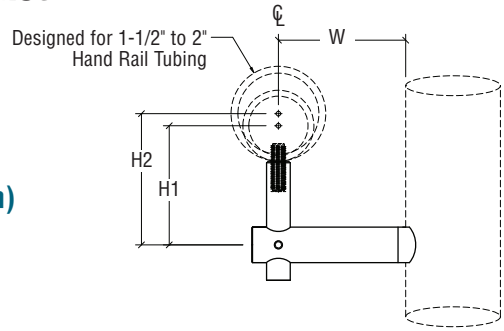
CAT. NO.	FINISH	C/L-"W"	1-1/2" & 1.66" C/L-"H1"	1.9" & 2" C/L-"H2"
HR2FWBS	316 Brushed Stainless	2-13/16" (71.4 mm)	2-1/2" (63.5 mm)	2-11/16" (68 mm)
HR2FWPS	316 Polished Stainless	2-13/16" (71.4 mm)	2-1/2" (63.5 mm)	2-11/16" (68 mm)
HR2FWMA	6063 Mill Aluminum	2-13/16" (71.4 mm)	2-1/2" (63.5 mm)	2-11/16" (68 mm)

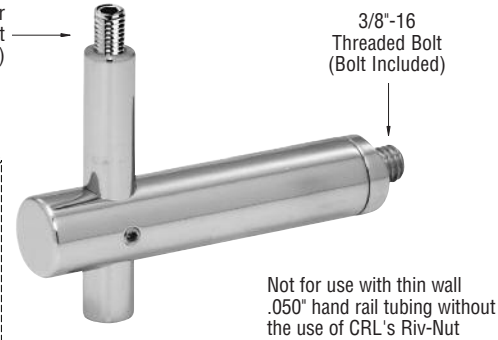
Minimum order: 1 each. All Railing Brackets can be combined for quantity pricing.

CRL Coastal Series Post Mounted Hand Rail Bracket

new

- 2-Way Adjustable
- Ready to Install
- Two Architectural Finishes Plus Mill Finish Aluminum
- For 1-1/2" to 2" (38.1 to 50.8 mm) Diameter Hand Rail Tubing





- 316 Grade Stainless Steel

Not for use with thin wall .050" hand rail tubing without the use of CRL's Riv-Nut system. Heavy wall tubing is recommended for this bracket.

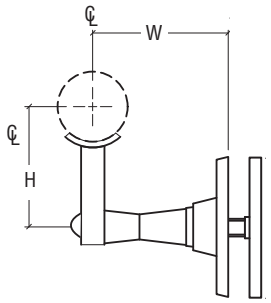
CAT. NO.	FINISH	C/L-"W"	1-1/2" & 1.66" C/L-"H1"	1.9" & 2" C/L-"H2"
HR2FPBS	316 Brushed Stainless	2-11/16" (68 mm)	2-1/2" (63.5 mm)	2-11/16" (68 mm)
HR2FPPS	316 Polished Stainless	2-11/16" (68 mm)	2-1/2" (63.5 mm)	2-11/16" (68 mm)
HR2FPMA	6063 Mill Aluminum	2-11/16" (68 mm)	2-1/2" (63.5 mm)	2-11/16" (68 mm)

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

CRL Manhattan Series Glass Mounted Hand Rail Bracket

new

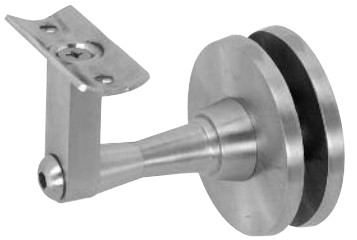
- 2-Way Adjustable
- Five Architectural Finishes Plus Mill Finish Aluminum
- For 1-1/2", 1.9" or 2" (38.1, 48.3 or 50.8 mm) Diameter Hand Rail Tubing
- Designed for 1/2" to 1-1/16" (12 to 25.52 mm) Glass Thickness



Two Flat Head Allen M6 x 1.0 x 5/8" Stainless Steel Machine Screws Included

Optional Flat Hand Rail Adapter Plate

***CAT. NO. HBFP1**



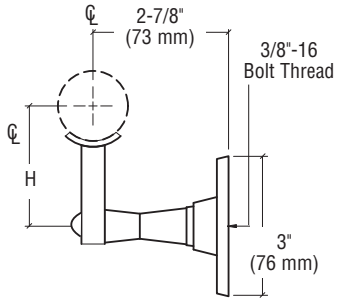
CAT. NO.	FINISH	1-1/2" C/L-"H"	1.9" & 2" C/L-"H"
HR2SGMA	6063 Mill Aluminum	2-9/16" (65 mm)	2-13/16" (71.4 mm)
HR2SGSA	6063 Satin Anodized	2-9/16" (65 mm)	2-13/16" (71.4 mm)
HR2SGDU	6063 Dark Bronze Anodized	2-9/16" (65 mm)	2-13/16" (71.4 mm)

CAT. NO.	FINISH	1-1/2" C/L-"H"	1.9" & 2" C/L-"H"
HR2SGBS	316 Brushed Stainless	2-9/16" (65 mm)	2-13/16" (71.4 mm)
HR2SGPS	316 Polished Stainless	2-9/16" (65 mm)	2-13/16" (71.4 mm)
HR2SGPB	C260 Polished Brass	2-9/16" (65 mm)	2-13/16" (71.4 mm)

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

CRL Manhattan Series Wall Mounted Hand Rail Bracket

- 2-Way Adjustable
- Ready to Install
- Five Architectural Finishes Plus Mill Aluminum
- For 1-1/2", 1.9" or 2" (38.1, 48.3 or 50.8 mm) Diameter Hand Rail Tubing

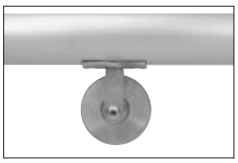


Two Flat Head Allen M6 x 1.0 x 5/8" Stainless Steel Machine Screws Included

Optional Flat Hand Rail Adapter Plate

***CAT. NO. HBFP1**

3/8"-16 x 2-1/2" Long Hanger Bolt Supplied. See page B512 for Additional Mounting Hardware



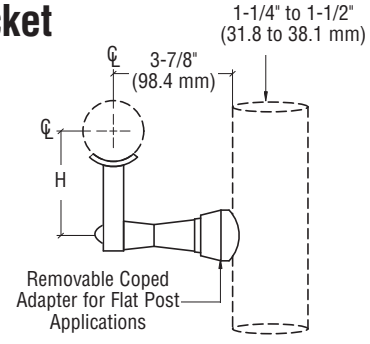
CAT. NO.	FINISH	1-1/2" C/L-"H"	1.9" & 2" C/L-"H"
HR2SWMA	6063 Mill Aluminum	2-9/16" (65 mm)	2-13/16" (71.4 mm)
HR2SWSA	6063 Satin Anodized	2-9/16" (65 mm)	2-13/16" (71.4 mm)
HR2SWDU	6063 Dark Bronze Anodized	2-9/16" (65 mm)	2-13/16" (71.4 mm)

CAT. NO.	FINISH	1-1/2" C/L-"H"	1.9" & 2" C/L-"H"
HR2SWBS	316 Brushed Stainless	2-9/16" (65 mm)	2-13/16" (71.4 mm)
HR2SWPS	316 Polished Stainless	2-9/16" (65 mm)	2-13/16" (71.4 mm)
HR2SWPB	C260 Polished Brass	2-9/16" (65 mm)	2-13/16" (71.4 mm)

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

CRL Manhattan Series Post Mounted Hand Rail Bracket

- Ready to Mount to Either 1-1/4" or 1-1/2" (31.8 or 38.1 mm) Schedule 40 Vertical Posts
- Five Architectural Finishes Plus Mill Aluminum
- For 1-1/2", 1.9" or 2" (38.1, 48.3 or 50.8 mm) Diameter Hand Rail Tubing



Two Flat Head Allen M6 x 1.0 x 5/8" Stainless Steel Machine Screws Included

Optional Flat Hand Rail Adapter Plate

***CAT. NO. HBFP1**

3/8"-16 Bolt Thread Supplied

CAT. NO.	FINISH	1-1/2" C/L-"H"	1.9" & 2" C/L-"H"
HR2SPMA	6063 Mill Aluminum	2-9/16" (65 mm)	2-13/16" (71.4 mm)
HR2SPSA	6063 Satin Anodized	2-9/16" (65 mm)	2-13/16" (71.4 mm)
HR2SPDU	6063 Dark Bronze Anodized	2-9/16" (65 mm)	2-13/16" (71.4 mm)

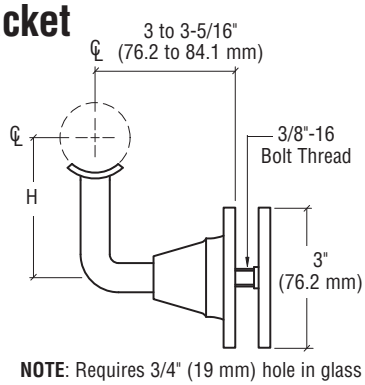
CAT. NO.	FINISH	1-1/2" C/L-"H"	1.9" & 2" C/L-"H"
HR2SPBS	316 Brushed Stainless	2-9/16" (65 mm)	2-13/16" (71.4 mm)
HR2SPPS	316 Polished Stainless	2-9/16" (65 mm)	2-13/16" (71.4 mm)
HR2SPPB	C260 Polished Brass	2-9/16" (65 mm)	2-13/16" (71.4 mm)

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

CRL HRS HAND RAILING SYSTEMS

CRL Newport Series Glass Mounted Hand Rail Bracket

- Ready to Install
- Five Architectural Finishes Plus Mill Aluminum
- For 1-1/2" to 2" (38.1 to 50.8 mm) Diameter Hand Rail Tubing
- Designed for 1/2" (12 mm) Glass



NOTE: Requires 3/4" (19 mm) hole in glass

Two Pan Head Phillips Self-Drilling 8-18 x 3/4" Long Stainless Steel Screws Included

Optional Flat Hand Rail Adapter Plate

***CAT. NO. HBFP1**

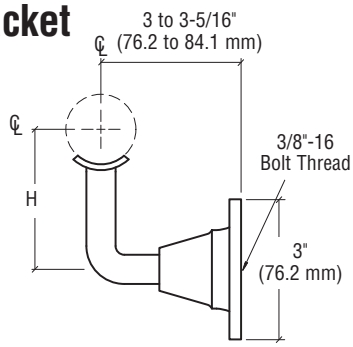
CAT. NO.	FINISH	1-1/2" & 1.66" C/L-"H"	1.9" & 2" C/L-"H"
HR2DGMA	6063 Mill Aluminum	3" (76.2 mm)	3-1/4" (82.5 mm)
HR2DGSA	6063 Satin Anodized	3" (76.2 mm)	3-1/4" (82.5 mm)
HR2DGDU	6063 Dark Bronze Anodized	3" (76.2 mm)	3-1/4" (82.5 mm)

CAT. NO.	FINISH	1-1/2" & 1.66" C/L-"H"	1.9" & 2" C/L-"H"
HR2DGBS	316 Brushed Stainless	3" (76.2 mm)	3-1/4" (82.5 mm)
HR2DGPS	316 Polished Stainless	3" (76.2 mm)	3-1/4" (82.5 mm)
HR2DGPB	C260 Polished Brass	3" (76.2 mm)	3-1/4" (82.5 mm)

Minimum order: All Railing Brackets can be combined for quantity pricing. *Specify finish at time of order.

CRL Newport Series Wall Mounted Hand Rail Bracket

- 3-Way Adjustable
- Ready to Install
- Five Architectural Finishes Plus Mill Aluminum
- For 1-1/2" to 2" (38.1 to 50.8 mm) Diameter Hand Rail Tubing

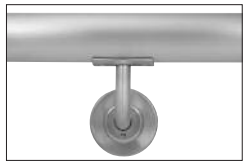


Two Pan Head Phillips Self-Drilling 8-18 x 3/4" Long Stainless Steel Screws Included

Optional Flat Hand Rail Adapter Plate

***CAT. NO. HBFP1**

3/8"-16 x 2-1/2" Hanger Bolt Supplied. See page B512 for Additional Mounting Hardware.



CAT. NO.	FINISH	1-1/2" & 1.66" C/L-"H"	1.9" & 2" C/L-"H"
HR2DWMA	6063 Mill Aluminum	3" (76.2 mm)	3-1/4" (82.5 mm)
HR2DWSA	6063 Satin Anodized	3" (76.2 mm)	3-1/4" (82.5 mm)
HR2DWDU	6063 Dark Bronze Anodized	3" (76.2 mm)	3-1/4" (82.5 mm)

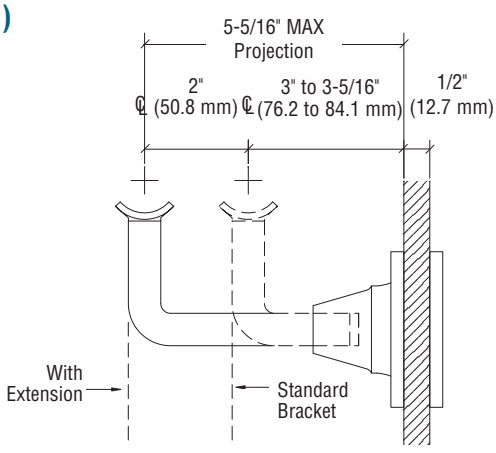
CAT. NO.	FINISH	1-1/2" & 1.66" C/L-"H"	1.9" & 2" C/L-"H"
HR2DWBS	316 Brushed Stainless	3" (76.2 mm)	3-1/4" (82.5 mm)
HR2DWPS	316 Polished Stainless	3" (76.2 mm)	3-1/4" (82.5 mm)
HR2DWPB	C260 Polished Brass	3" (76.2 mm)	3-1/4" (82.5 mm)

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" (50.8 mm) of Additional Extension From Mounting Surface
- Five Architectural Finishes Available

Front View

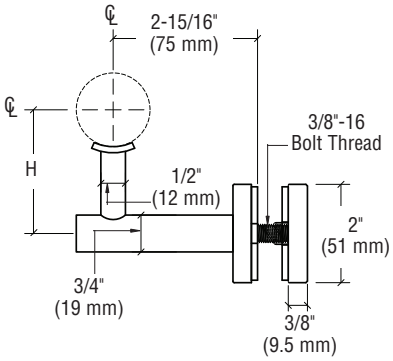


CAT. NO.	FINISH
HR2DXSA	6063 Satin Anodized
HR2DXDU	6063 Dark Bronze Anodized
HR2DXBS	316 Brushed Stainless
HR2DXPS	316 Polished Stainless
HR2DXPB	C260 Polished Brass

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

CRL Malibu Series Glass Mounted Hand Rail Bracket

- Ready to Install
- Two Architectural Finishes Plus Mill Aluminum
- For 1-1/2" to 2" (38.1 to 50.8 mm) Diameter Hand Rail Tubing
- Can Also Be Used for Wall Mount Applications
- Designed for 1/2" to 1-1/16" (12 to 25.52 mm) Glass Thickness



Two Flat Head Allen M6 x 1.0 x 5/8" Stainless Steel Machine Screws Included

Optional Flat Hand Rail Adapter Plate

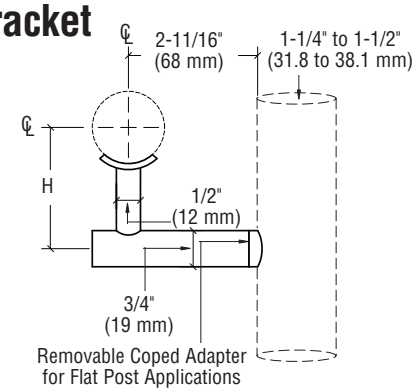
***CAT. NO. HBFP1**

CAT. NO.	FINISH	C/L-"W"	1-1/2" & 1.66" C/L-"H"	1.9" & 2" C/L-"H"
HR2EGBS	316 Brushed Stainless	2-15/16" (75 mm)	2-1/2" (63.5 mm)	2-11/16" (68 mm)
HR2EGPS	316 Polished Stainless	2-15/16" (75 mm)	2-1/2" (63.5 mm)	2-11/16" (68 mm)
HR2EGMA	6063 Mill Aluminum	2-15/16" (75 mm)	2-1/2" (63.5 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 Bracket

- Ready to Install
- Two Architectural Finishes Plus Mill Aluminum
- For 1-1/2" to 2" (38.1 to 50.8 mm) Diameter Hand Rail Tubing
- Ready to Mount to 1-1/4" or 1-1/2" (31.8 or 38.1 mm) Schedule 40 Vertical Posts



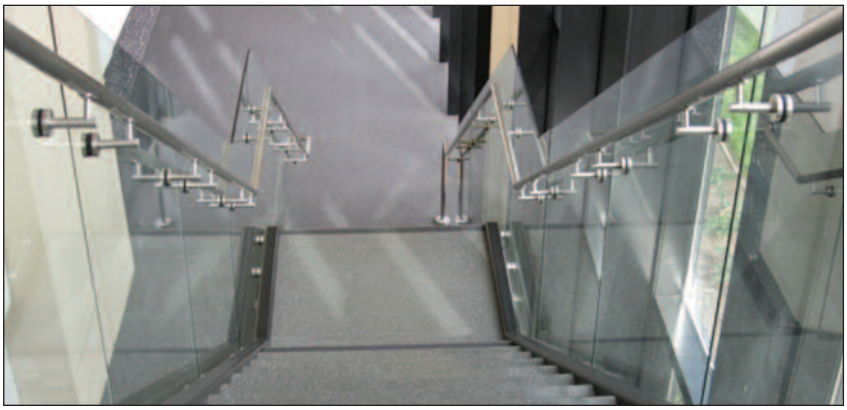
Two Flat Head Allen M6 x 1.0 x 5/8" Stainless Steel Machine Screws Included

Optional Flat Hand Rail Adapter Plate

***CAT. NO. HBFP1**

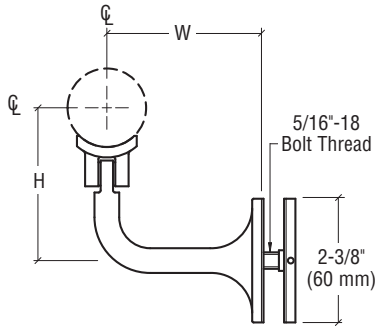
CAT. NO.	FINISH	C/L-"W"	1-1/2" & 1.66" C/L-"H"	1.9" & 2" C/L-"H"
HR2EPBS	316 Brushed Stainless	2-11/16" (68 mm)	2-1/2" (63 mm)	2-11/16" (68 mm)
HR2EPPS	316 Polished Stainless	2-11/16" (68 mm)	2-1/2" (63 mm)	2-11/16" (68 mm)
HR2EPMA	6063 Mill Aluminum	2-11/16" (68 mm)	2-1/2" (63 mm)	2-11/16" (68 mm)

Minimum order: 1 each. All Railing Brackets can be combined for quantity pricing. *Specify finish at time of order.



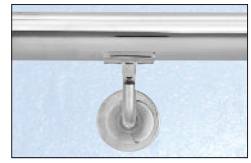
CRL La Jolla Series Glass Mounted Hand Rail Bracket

- Ready to Install
- Three Architectural Finishes
- For 1-1/2" to 2" (38.1 to 50.8 mm) Diameter Hand Rail Tubing



NOTE: Requires 3/4" (19 mm) hole in glass

Two Flat Head Phillips Self-Drilling 8-18 x 3/4" Stainless Steel Screws Included



Designed for 1/2" (12 mm) to 3/4" (19 mm) Glass Thickness

FOR 1-1/2" & 1.66" (38.1 & 42.2 MM) DIAMETER HAND RAIL TUBING

CAT. NO.	FINISH	C/L-"W"	C/L-"H"
HR15GABS	316 Brushed Stainless	2-15/16" (75 mm)	2-15/16" (75 mm)
HR15GAPS	316 Polished Stainless	2-15/16" (75 mm)	2-15/16" (75 mm)
HR15GAPB	C260 Polished Brass	2-15/16" (75 mm)	2-15/16" (75 mm)

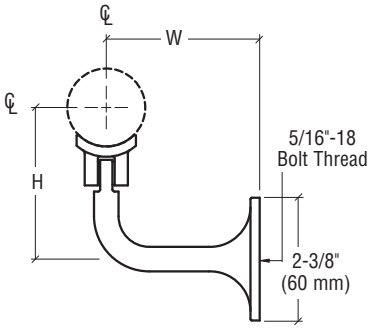
FOR 1.9" TO 2" (48.3 TO 50.8 MM) DIAMETER HAND RAIL TUBING

CAT. NO.	FINISH	C/L-"W"	C/L-"H"
HR20GABS	316 Brushed Stainless	2-15/16" (75 mm)	3-1/4" (82.5 mm)
HR20GAPS	316 Polished Stainless	2-15/16" (75 mm)	3-1/4" (82.5 mm)
HR20GAPB	C260 Polished Brass	2-15/16" (75 mm)	3-1/4" (82.5 mm)

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

CRL La Jolla Series Wall Mounted Hand Rail Bracket

- 2-Way Adjustable
- Ready to Install
- Three Architectural Finishes
- For 1-1/2" to 2" (38.1 to 50.8 mm) Diameter Hand Rail Tubing



Two Flat Head Phillips Self-Drilling 8-18 x 3/4" Stainless Steel Screws Included

5/16"-18 x 2-1/2" Hanger Bolt Supplied. See Page B512 for Additional Mounting Hardware

FOR 1-1/2" & 1.66" (38.1 & 42.2 MM) DIAMETER HAND RAIL TUBING

CAT. NO.	FINISH	C/L-"W"	C/L-"H"
HR15WABS	316 Brushed Stainless	2-15/16" (75 mm)	2-15/16" (75 mm)
HR15WAPS	316 Polished Stainless	2-15/16" (75 mm)	2-15/16" (75 mm)
HR15WAPB	C260 Polished Brass	2-15/16" (75 mm)	2-15/16" (75 mm)

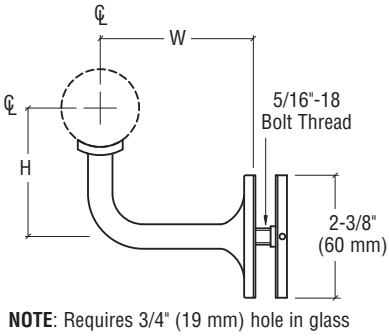
FOR 1.9" TO 2" (48.3 TO 50.8 MM) DIAMETER HAND RAIL TUBING

CAT. NO.	FINISH	C/L-"W"	C/L-"H"
HR20WABS	316 Brushed Stainless	2-15/16" (75 mm)	3-1/4" (82.5 mm)
HR20WAPS	316 Polished Stainless	2-15/16" (75 mm)	3-1/4" (82.5 mm)
HR20WAPB	C260 Polished Brass	2-15/16" (75 mm)	3-1/4" (82.5 mm)

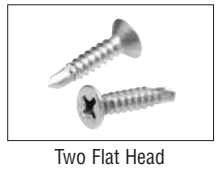
Minimum order: 1 each. All Railing Brackets can be combined for quantity pricing.

CRL Pismo Series Glass Mounted Hand Rail Bracket

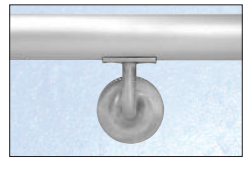
- Ready to Install
- Three Architectural Finishes
- For 1-1/2" to 2" (38.1 to 50.8 mm) Diameter Hand Rail Tubing



NOTE: Requires 3/4" (19 mm) hole in glass



Two Flat Head Phillips Self-Drilling 8-18 x 3/4" Stainless Steel Screws Included



Designed for 1/2" (12 mm) to 3/4" (19 mm) Glass Thickness

FOR 1-1/2" & 1.66" (38.1 & 42.2 MM) DIAMETER HAND RAIL TUBING

CAT. NO.	FINISH	C/L-"W"	C/L-"H"
HR15GBS	316 Brushed Stainless	2-15/16" (75 mm)	2-1/2" (63.5 mm)
HR15GPS	316 Polished Stainless	2-15/16" (75 mm)	2-1/2" (63.5 mm)
HR15GPB	C260 Polished Brass	2-15/16" (75 mm)	2-1/2" (63.5 mm)

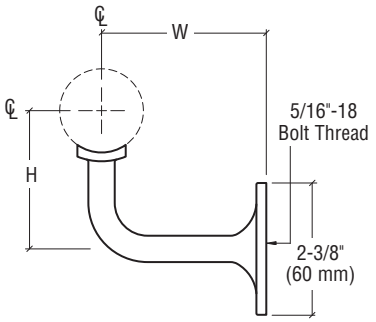
FOR 1.9" TO 2" (48.3 TO 50.8 MM) DIAMETER HAND RAIL TUBING

CAT. NO.	FINISH	C/L-"W"	C/L-"H"
HR20GBS	316 Brushed Stainless	2-15/16" (75 mm)	2-3/4" (70 mm)
HR20GPS	316 Polished Stainless	2-15/16" (75 mm)	2-3/4" (70 mm)
HR20GPB	C260 Polished Brass	2-15/16" (75 mm)	2-3/4" (70 mm)

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

CRL Pismo Series Wall Mounted Hand Rail Bracket

- Ready to Install
- Three Architectural Finishes
- For 1-1/2" to 2" (38.1 to 50.8 mm) Diameter Hand Rail Tubing



Two Flat Head Phillips Self-Drilling 8-18 x 3/4" Stainless Steel Screws Included

5/16"-18 x 2-1/2" Hanger Bolt Supplied. See Page B512 for Additional Mounting Hardware

FOR 1-1/2" & 1.66" (38.1 & 42.2 MM) DIAMETER HAND RAIL TUBING

CAT. NO.	FINISH	C/L-"W"	C/L-"H"
HR15B4BS	316 Brushed Stainless	2-15/16" (75 mm)	2-1/2" (63.5 mm)
HR15B4PS	316 Polished Stainless	2-15/16" (75 mm)	2-1/2" (63.5 mm)
HR15B4PB	C260 Polished Brass	2-15/16" (75 mm)	2-1/2" (63.5 mm)

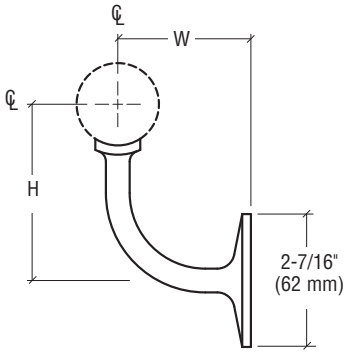
FOR 1.9" & 2" (48.3 & 50.8 MM) DIAMETER HAND RAIL TUBING

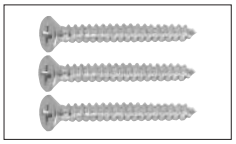
CAT. NO.	FINISH	C/L-"W"	C/L-"H"
HR20B4BS	316 Brushed Stainless	2-15/16" (75 mm)	2-3/4" (70 mm)
HR20B4PS	316 Polished Stainless	2-15/16" (75 mm)	2-3/4" (70 mm)
HR20B4PB	C260 Polished Brass	2-15/16" (75 mm)	2-3/4" (70 mm)

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

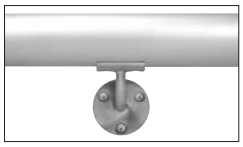
CRL Del Mar Series Wall Mounted Short Arm Hand Rail Bracket

- Ready to Install
- Three Architectural Finishes
- For 1-1/2" to 2" (38.1 to 50.8 mm) Diameter Hand Rail Tubing





Supplied with Three #12 x 2" Wood Screws Flat Head Stainless Steel 8-18 x 3/4" Screws



Two Flat Head Phillips Self-Drilling 8-18 x 3/4" Stainless Steel Screws Included

FOR 1-1/2" & 1.66" (38.1 & 42.2 MM) DIAMETER HAND RAIL TUBING

CAT. NO.	FINISH	C/L-"W"	C/L-"H"
HR15TBS	316 Brushed Stainless	2-7/16" (62 mm)	3-3/16" (81 mm)
HR15TPS	316 Polished Stainless	2-7/16" (62 mm)	3-3/16" (81 mm)
HR15TPB	C260 Polished Brass	2-7/16" (62 mm)	3-3/16" (81 mm)

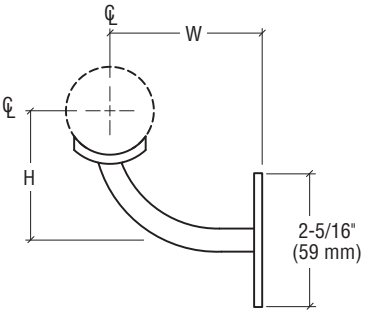
FOR 1.9" & 2" (48.3 & 50.8 MM) DIAMETER HAND RAIL TUBING

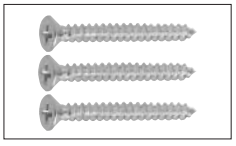
CAT. NO.	FINISH	C/L-"W"	C/L-"H"
HR20TBS	316 Brushed Stainless	2-7/16" (62 mm)	3-7/16" (87 mm)
HR20TPS	316 Polished Stainless	2-7/16" (62 mm)	3-7/16" (87 mm)
HR20TPB	C260 Polished Brass	2-7/16" (62 mm)	3-7/16" (87 mm)

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

CRL Del Mar Series Wall Mounted Long Arm Hand Rail Bracket

- Ready to Install
- Three Architectural Finishes
- For 1-1/2" to 2" (38.1 to 50.8 mm) Diameter Hand Rail Tubing





Supplied with Three #12 x 2" Wood Screws Flat Head Stainless Steel 8-18 x 3/4" Screws

Two Flat Head Phillips Self-Drilling 8-18 x 3/4" Stainless Steel Screws Included

FOR 1-1/2" & 1.66" (38.1 & 42.2 MM) DIAMETER HAND RAIL TUBING

CAT. NO.	FINISH	C/L-"W"	C/L-"H"
HR15B3BS	316 Brushed Stainless	2-5/8" (66 mm)	2-3/16" (56 mm)
HR15B3PS	316 Polished Stainless	2-5/8" (66 mm)	2-3/16" (56 mm)
HR15B3PB	C260 Polished Brass	2-5/8" (66 mm)	2-3/16" (56 mm)

FOR 1.9" & 2" (48.3 & 50.8 MM) DIAMETER HAND RAIL TUBING

CAT. NO.	FINISH	C/L-"W"	C/L-"H"
HR20B3BS	316 Brushed Stainless	2-5/8" (66 mm)	2-7/16" (62 mm)
HR20B3PS	316 Polished Stainless	2-5/8" (66 mm)	2-7/16" (62 mm)
HR20B3PB	C260 Polished Brass	2-5/8" (66 mm)	2-7/16" (62 mm)

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

CRL Conversion Cap Set HR2D or HR2S 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**
- **Five Architectural Finishes Plus Mill Aluminum**

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" Plastic Grommet.

Front View

Back View

CAT. NO.	FINISH
HR2CKMA	6063 Mill Aluminum
HR2CKSA	6063 Satin Anodized
HR2CKDU	6063 Duranodic Bronze
HR2CKBS	316 Brushed Stainless
HR2CKPS	316 Polished Stainless
HR2CKPB	C260 Polished Brass

Minimum order: 1 each.

CRL Replacement Gaskets and Grommet Packs for Hand Rail Brackets

HR15G, HR20G, HR15GA, and HR20GA Series

Each CRL Replacement Gasket and Grommet Pack includes two each 2-5/16" (58.7 mm) diameter Rubber Gaskets and one each 1/2" (12.7 mm) Plastic Grommet. Minimum order is one pack.

CAT. NO. RGGP1

HR2DG, HR2EG, HR2FG, HREG, HR2FG and HR2DG

Each CRL Replacement Gasket and Grommet Pack includes two each 2-7/8" (73 mm) diameter Rubber Gaskets and one each 3/4" (19 mm) Plastic Grommet. Minimum order is one pack.

CAT. NO. RGGP2

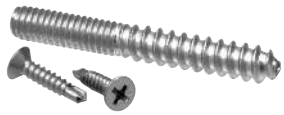
CRL Replacement Screw Packs for Hand Rail Brackets

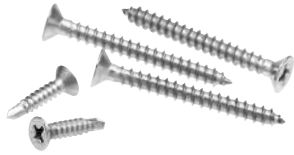
RSP1 Pack

Each pack contains two each 8-18 x 3/4" (19 mm) Self-Drilling Phillips Pan Head Screws and one each 3/8"-16 x 3" (76.2 mm) Hanger Bolt.

RSP2 Pack

Each pack contains two each 8-18 x 3/4" (19 mm) Self-Drilling Phillips Pan Head Screws and one each 3/8"-16 x 1-1/4" (31.8 mm) Allen Screw.





RSP3 Pack

Each pack contains two each 8-18 x 3/4" (19 mm) Self-Drilling Phillips Flat Head Screws and one each 5/16" -18 x 2-1/2" (63.5 mm) Hanger Bolt.

RSP5 Pack

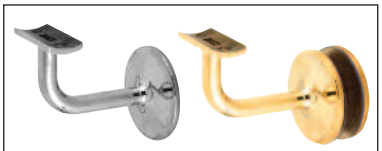
Each pack contains two each 8-18 x 3/4" (19 mm) Self-Drilling Phillips Flat Head Screws and three each 12 x 2" (50.8 mm) Phillips Flat Head Screws.

RSP6 Pack

Each pack contains two each Flat Head Allen M6 x 1 mm x 5/8" (15.9 mm)

BRUSHED STAINLESS CAT. NO.	POLISHED STAINLESS CAT. NO.	BRASS PLATED CAT. NO.	SATIN ANODIZED CAT. NO.	DARK BRONZE CAT. NO.	FITS CRL HAND RAIL SERIES
RSP1BS	RSP1PS	RSP1PB	RSP1SA	RSP1DU	HR2SW and HR2DW
RSP2BS	RSP2PS	RSP2PB	RSP2SA	RSP2DU	HR2SP
RSP3BS	RSP3PS	RSP3PB	----------	----------	HR15T, HR20T, HR15B3, and HR20B3
RSP5BS	RSP5PS	RSP5PB	----------	----------	HR15B4, HR20B4, HR15WA, and HR20WA
RSP6BS	RSP6PS	----------	----------	----------	HR2SG and HR2SW

Minimum order: 1 pack.



See pages B314 to B320 for complete selection of Hand Railing Brackets

CRL HRS HAND RAILING SYSTEMS

CRL Stainless Steel Concrete Anchors

- For Use With HRS Hand Rail Brackets

CAT. NO.	THREAD SIZE	LENGTH
CA3817	5/16"-18	1-7/8" (47.6 mm)
CA1222	3/8"-16	2-1/4" (57.1 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" (63.5 mm)
HB383S	3/8"-16	3" (76.2 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" (4.8 mm)
AS142014	1/4"-20	1/4" (6.3 mm)
AS516112	5/16"-18	1-1/2" (38.1 mm)
AS516134	5/16"-18	1-3/4" (44.5 mm)
AS5162	5/16"-18	2" (50.8 mm)
AS5163	5/16"-18	3" (76.2 mm)
AS38112	3/8"-16	1-1/2" (38.1 mm)

Minimum order: 10 each. Sizes can be combined for quantity pricing.

CRL Stainless Steel Threaded Rods

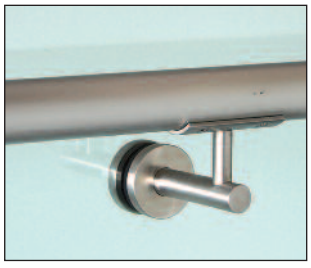
- For Use With HRS Hand Rail Brackets

CAT. NO.	THREAD SIZE	LENGTH
TR51618X36S	5/16"-18	36" (914 mm)
TR3816X36S	3/8"-16	36" (914 mm)

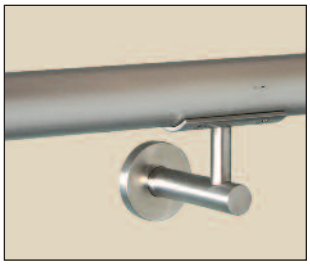
Minimum order: 1 each. Sizes can be combined for quantity pricing.

CRL Heavy and Thin Wall Hand Rail Tubing

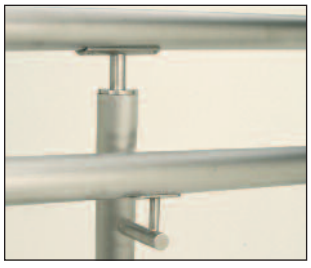
Post Mount Top Rail Application



Glass Mount Application

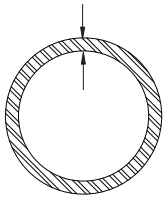


Wall Mount Application



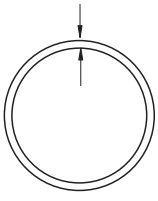
Post Mount Hand Rail Application

Heavy Wall Tubing



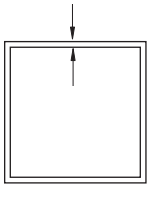
See Page B312

Thin Wall Tubing



See Page B311

Thin Wall Tubing

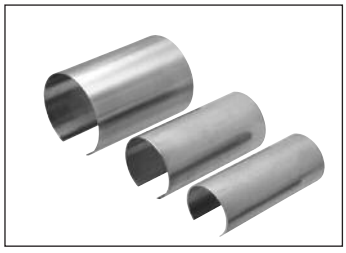


See Page B311

Corners

See Pages B324 to B328

Connector Sleeves



See Page B313

End Caps

See Page B313

Contact Cement

See Page B337

CRL Snaptoggle® Toggle Anchors

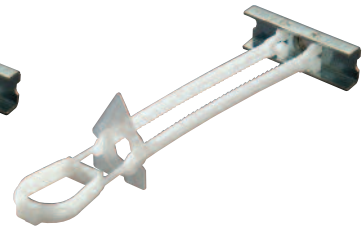
- **Heavy-Duty Wall Anchors**
- **Great for Hand Rails, Grab Bars, Display Standoffs, and Glass Shelving**
- **Designed for Use With Gypsum Board, Concrete, Cement Board, Plaster, Stucco, Plywood, Steel Studs, and Composite Panels**
- **Installs in Minutes**

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.

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

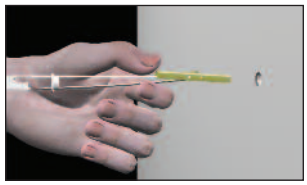
CAT. NO.	ACCEPTS BOLT SIZE	HOLE DRILL DIAMETER	GRIP RANGE
TB1420	1/4"-20	1/2" (13 mm)	3/8" - 3-5/8" (9.5 - 92 mm)
TB51618	5/16"-18	3/4" (19 mm)	3/8" - 2-1/2" (9.5 - 63.5 mm)
TB3816	3/8"-16	3/4" (19 mm)	3/8" - 2-1/2" (9.5 - 63.5 mm)
TB1213	1/2"-13	3/4" (19 mm)	3/8" - 2-1/2" (9.5 - 63.5 mm)

Minimum order: 10 each. Sizes can be combined for quantity pricing. Bolts not included.

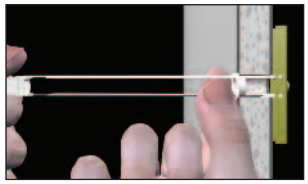
SPECIFICATIONS:

- Zinc Plated 1010 Cold Rolled Steel
- UNC-Thread Machine Screw (Bolt) to Match Thread in Metal Channel
- Minimum Clearance Behind Wall is 1-7/8" (48 mm)
- Minimum Drywall Thickness is 3/8" (9.5 mm)
- Minimum Screw Length - Thickness of Wall or Ceiling + Thickness of Item Being Fastened + 1/2" (13 mm)

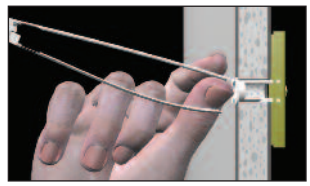
INSTALLATION INSTRUCTIONS



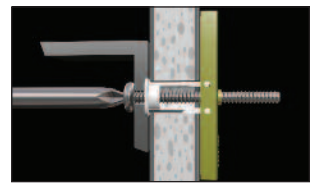
Drill appropriate size hole. Hold metal channel flat alongside plastic straps and slide channel through the hole. Minimum clearance behind wall is only 1-7/8" (48 mm).



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.



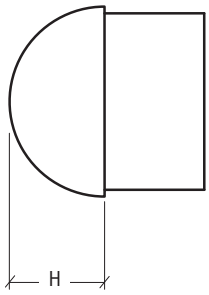
Place thumb between straps at wall. Push thumb side to side, snapping off straps level with flange of cap.



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.

CRL Dome End Caps

- Ready to Install
- Three Architectural Finishes



NOTE: Use Cat. No. 32629 Metal Contact Cement for a secure and permanent bond (see page B337).

DOME END CAPS FOR 1-1/2" (38.1 MM) 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.

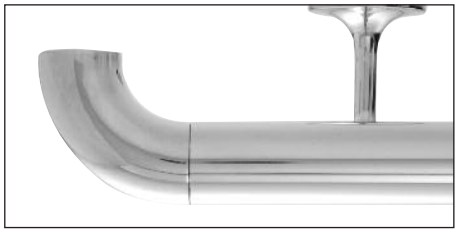
DOME END CAPS FOR 2" (50.8 MM) TUBING

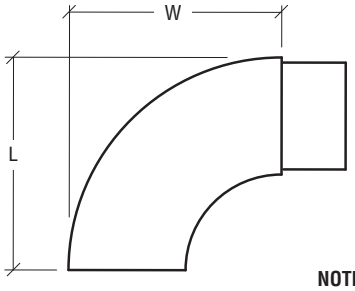
CAT. NO.	FINISH	"H" HEIGHT
HR20DBS	Brushed Stainless	1" (25 mm)
HR20DPS	Polished Stainless	1" (25 mm)
HR20DPB	Polished Brass	1" (25 mm)

Minimum order: 1 each. All Railing End Caps can be combined for quantity pricing.

CRL 90 Degree Flush Angle Ends

- Ready to Install
- Three Architectural Finishes





NOTE: Use Cat. No. 32629 Metal Contact Cement for a secure and permanent bond (see page B337).

90 DEGREE FLUSH ANGLE ENDS FOR 1-1/2" (38.1 MM) 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 Railing End Caps can be combined for quantity pricing.

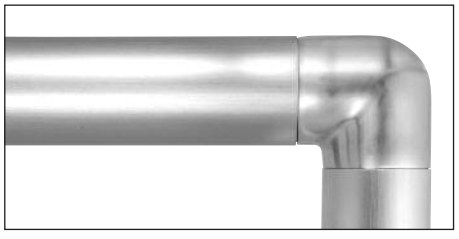
90 DEGREE FLUSH ANGLE ENDS FOR 2" (50.8 MM) TUBING

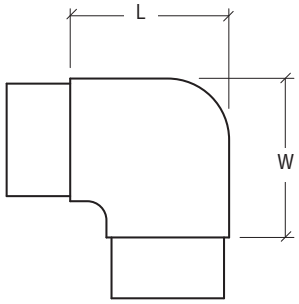
CAT. NO.	FINISH	"L" LENGTH	"W" WIDTH
HR20RBS	Brushed Stainless	3-5/32" (80 mm)	3-11/32" (85 mm)
HR20RPS	Polished Stainless	3-5/32" (80 mm)	3-11/32" (85 mm)
HR20RPB	Polished Brass	3-5/32" (80 mm)	3-11/32" (85 mm)

Minimum order: 1 each. All Railing End Caps can be combined for quantity pricing.

CRL Sharp Radius 90 Degree Corners

- Ready to Install
- Three Architectural Finishes





NOTE: Use Cat. No. 32629 Metal Contact Cement for a secure and permanent bond (see page B337).

SHARP RADIUS 90 DEGREE CORNERS FOR 1-1/2" (38.1 MM) TUBING

CAT. NO.	FINISH	"L" LENGTH	"W" WIDTH
HR15HBS	Brushed Stainless	2" (50 mm)	2" (50 mm)
HR15HPS	Polished Stainless	2" (50 mm)	2" (50 mm)
HR15HPB	Polished Brass	2" (50 mm)	2" (50 mm)

Minimum order: 1 each. All Hand Rail Fittings can be combined for quantity pricing.

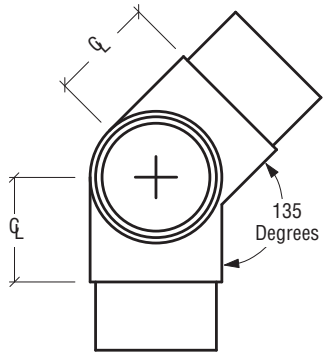
SHARP RADIUS 90 DEGREE CORNERS FOR 2" (50.8 MM) TUBING

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.

CRL 135 Degree Side Outlet Elbows

- Ready to Install
- Three Architectural Finishes



NOTE: Use Cat. No. 32629 Metal Contact Cement for a secure and permanent bond (see page B337).

135 DEGREE SIDE OUTLET ELBOWS FOR 1-1/2" (38.1 MM) 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.

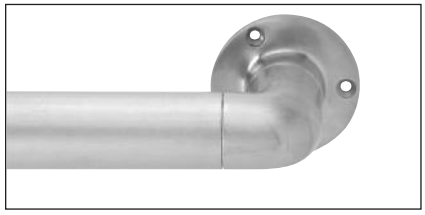
135 DEGREE SIDE OUTLET ELBOWS FOR 2" (50.8 MM) TUBING

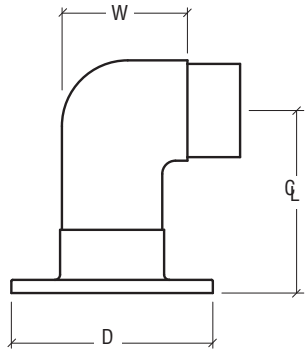
CAT. NO.	FINISH	"C/L"
HR20PBS	Brushed Stainless	1-9/16" (39.3 mm)
HR20PPS	Polished Stainless	1-9/16" (39.3 mm)
HR20PPB	Polished Brass	1-9/16" (39.3 mm)

Minimum order: 1 each. All Hand Rail Fittings can be combined for quantity pricing.

CRL Flush Wall Returns

- Ready to Install
- Three Architectural Finishes
- Comes With Mounting Hardware





NOTE: Use Cat. No. 32629 Metal Contact Cement for a secure and permanent bond (see page B337).

FLUSH WALL RETURNS FOR 1-1/2" (38.1 MM) TUBING

CAT. NO.	FINISH	"D"	"W"	"C/L"
HR15QBS	Brushed Stainless	3" (76.2 mm)	1-7/8" (48 mm)	2-3/4" (70 mm)
HR15QPS	Polished Stainless	3" (76.2 mm)	1-7/8" (48 mm)	2-3/4" (70 mm)
HR15QPB	Polished Brass	3" (76.2 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.

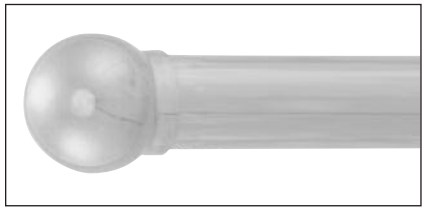
FLUSH WALL RETURNS FOR 2" (50.8 MM) TUBING

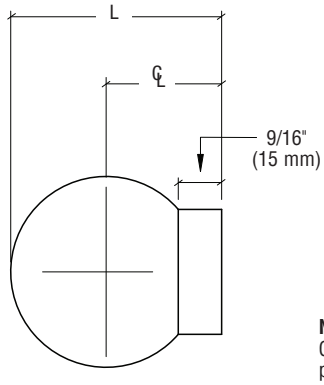
CAT. NO.	FINISH	"D"	"W"	"C/L"
HR20QBS	Brushed Stainless	4" (101.6 mm)	2-1/2" (64 mm)	3" (76 mm)
HR20QPS	Polished Stainless	4" (101.6 mm)	2-1/2" (64 mm)	3" (76 mm)
HR20QPB	Polished Brass	4" (101.6 mm)	2-1/2" (64 mm)	3" (76 mm)

Minimum order: 1 each. All Hand Rail Fittings can be combined for quantity pricing.

CRL Ball Type End Caps

- Ready to Install
- Three Architectural Finishes
- Comes With Mounting Screws





NOTE: Use Cat. No. 32629 Metal Contact Cement for a secure and permanent bond (see page B337).

2-5/8" (66 MM) BALL TYPE END CAPS FOR 1-1/2" (38.1 MM) 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.

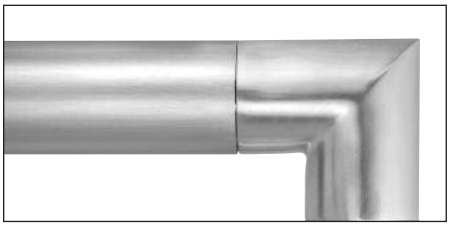
3-5/16" (84 MM) BALL TYPE END CAPS FOR 2" (50.8 MM) TUBING

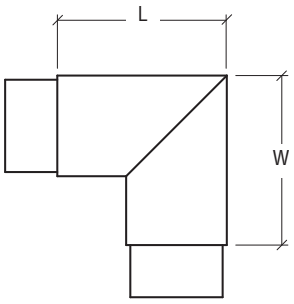
CAT. NO.	FINISH	"L"	"C/L"
HR20BBS	Brushed Stainless	3-7/16" (88 mm)	1-13/16" (46 mm)
HR20BPS	Polished Stainless	3-7/16" (88 mm)	1-13/16" (46 mm)
HR20BPB	Polished Brass	3-7/16" (88 mm)	1-13/16" (46 mm)

Minimum order: 1 each. All Railing End Caps can be combined for quantity pricing.

CRL Mitered Style 90 Degree Corners

- Ready to Install
- Three Architectural Finishes





NOTE: Use Cat. No. 32629 Metal Contact Cement for a secure and permanent bond (see page B337).

MITERED STYLE 90 DEGREE CORNERS FOR 1-1/2" (38.1 MM) 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.

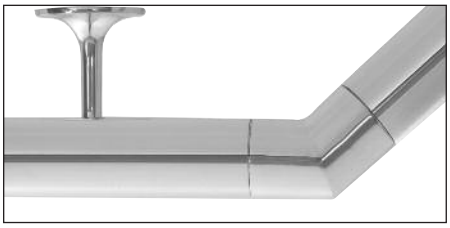
MITERED STYLE 90 DEGREE CORNERS FOR 2" (50.8 MM) TUBING

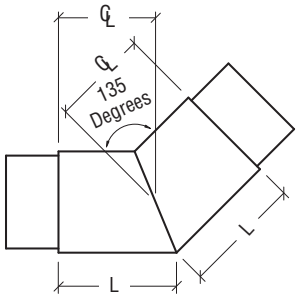
CAT. NO.	FINISH	"L" LENGTH	"W" WIDTH
HR20MCBS	Brushed Stainless	3-1/8" (80 mm)	3-1/8" (80 mm)
HR20MCPS	Polished Stainless	3-1/8" (80 mm)	3-1/8" (80 mm)
HR20MCPB	Polished Brass	3-1/8" (80 mm)	3-1/8" (80 mm)

Minimum order: 1 each. All Hand Rail Fittings can be combined for quantity pricing.

CRL 135 Degree Flush Angles

- Ready to Install
- Three Architectural Finishes





NOTE: Use Cat. No. 32629 Metal Contact Cement for a secure and permanent bond (see page B337).

135 DEGREE FLUSH ANGLES FOR 1-1/2" (38.1 MM) 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.

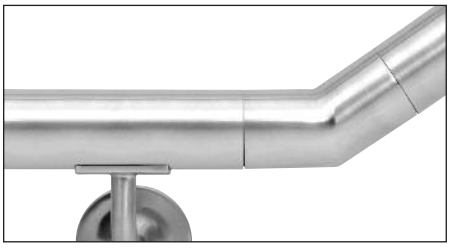
135 DEGREE FLUSH ANGLES FOR 2" (50.8 MM) TUBING

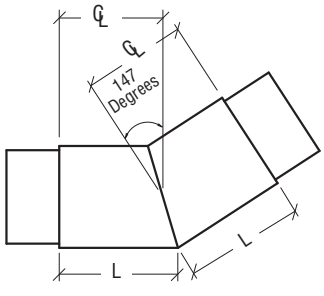
CAT. NO.	FINISH	"L" LENGTH	"C/L"
HR20MBS	Brushed Stainless	2" (50 mm)	1-9/16" (39.3 mm)
HR20MPS	Polished Stainless	2" (50 mm)	1-9/16" (39.3 mm)
HR20MPB	Polished Brass	2" (50 mm)	1-9/16" (39.3 mm)

Minimum order: 1 each. All Hand Rail Fittings can be combined for quantity pricing.

CRL 147 Degree Flush Angles

- Ready to Install
- Three Architectural Finishes





NOTE: Use Cat. No. 32629 Metal Contact Cement for a secure and permanent bond (see page B337).

147 DEGREE FLUSH ANGLES FOR 1-1/2" (38.1 MM) TUBING

CAT. NO.	FINISH	"L" LENGTH	"C/L"
HR15ABS	Brushed Stainless	1-3/4" (45 mm)	1-9/16" (39.3 mm)
HR15APS	Polished Stainless	1-3/4" (45 mm)	1-9/16" (39.3 mm)
HR15APB	Polished Brass	1-3/4" (45 mm)	1-9/16" (39.3 mm)

Minimum order: 1 each. All Hand Rail Fittings can be combined for quantity pricing.

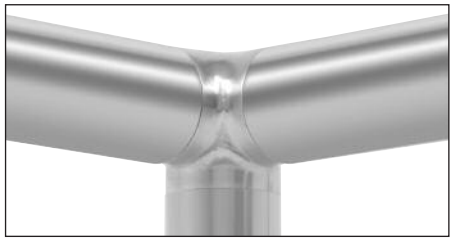
147 DEGREE FLUSH ANGLES FOR 2" (50.8 MM) TUBING

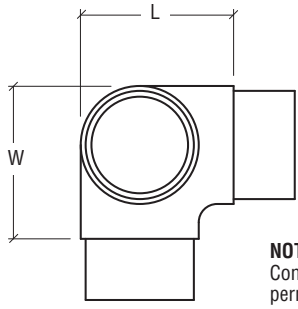
CAT. NO.	FINISH	"L" LENGTH	"C/L"
HR20ABS	Brushed Stainless	2" (50 mm)	1-11/16" (42.4 mm)
HR20APS	Polished Stainless	2" (50 mm)	1-11/16" (42.4 mm)
HR20APB	Polished Brass	2" (50 mm)	1-11/16" (42.4 mm)

Minimum order: 1 each. All Hand Rail Fittings can be combined for quantity pricing.

CRL 90 Degree Side Outlet Elbows

- Ready to Install
- Three Architectural Finishes





NOTE: Use Cat. No. 32629 Metal Contact Cement for a secure and permanent bond (see page B337).

90 DEGREE SIDE OUTLET ELBOWS FOR 1-1/2" (38.1 MM) TUBING

CAT. NO.	FINISH	"L" LENGTH	"W" WIDTH
HR15JBS	Brushed Stainless	2" (50 mm)	2" (50 mm)
HR15JPS	Polished Stainless	2" (50 mm)	2" (50 mm)
HR15JPB	Polished Brass	2" (50 mm)	2" (50 mm)

Minimum order: 1 each. All Hand Rail Fittings can be combined for quantity pricing.

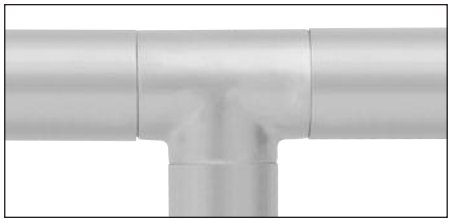
90 DEGREE SIDE OUTLET ELBOWS FOR 2" (50.8 MM) TUBING

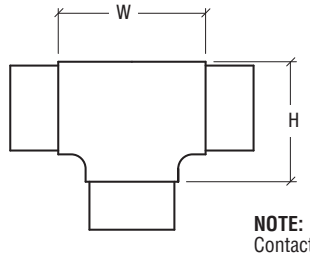
CAT. NO.	FINISH	"L" LENGTH	"W" WIDTH
HR20JBS	Brushed Stainless	2-3/8" (60 mm)	2-3/8" (60 mm)
HR20JPS	Polished Stainless	2-3/8" (60 mm)	2-3/8" (60 mm)
HR20JPB	Polished Brass	2-3/8" (60 mm)	2-3/8" (60 mm)

Minimum order: 1 each. All Hand Rail Fittings can be combined for quantity pricing.

CRL Flush Tees

- Ready to Install
- Three Architectural Finishes





NOTE: Use Cat. No. 32629 Metal Contact Cement for a secure and permanent bond (see page B337).

FLUSH TEES FOR 1-1/2" (38.1 MM) TUBING

CAT. NO.	FINISH	"H" HEIGHT	"W" WIDTH
HR15KBS	Brushed Stainless	2" (50 mm)	2-7/16" (61.4 mm)
HR15KPS	Polished Stainless	2" (50 mm)	2-7/16" (61.4 mm)
HR15KPB	Polished Brass	2" (50 mm)	2-7/16" (61.4 mm)

Minimum order: 1 each. All Hand Rail Fittings can be combined for quantity pricing.

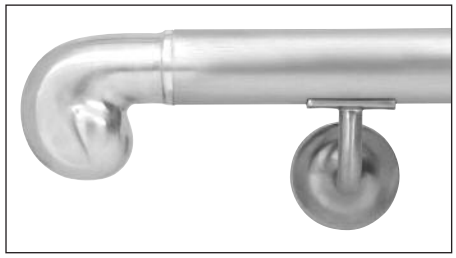
FLUSH TEES FOR 2" (50.8 MM) TUBING

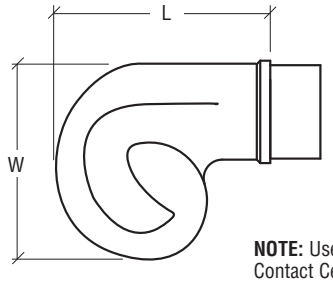
CAT. NO.	FINISH	"H" HEIGHT	"W" WIDTH
HR20KBS	Brushed Stainless	2-3/8" (60 mm)	2-11/16" (68.5 mm)
HR20KPS	Polished Stainless	2-3/8" (60 mm)	2-11/16" (68.5 mm)
HR20KPB	Polished Brass	2-3/8" (60 mm)	2-11/16" (68.5 mm)

Minimum order: 1 each. All Hand Rail Fittings can be combined for quantity pricing.

CRL End Scrolls

- Ready to Install
- Three Architectural Finishes





NOTE: Use Cat. No. 32629 Metal Contact Cement for a secure and permanent bond (see page B337).

END SCROLLS FOR 1-1/2" (38.1 MM) 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 Railing End Caps can be combined for quantity pricing.

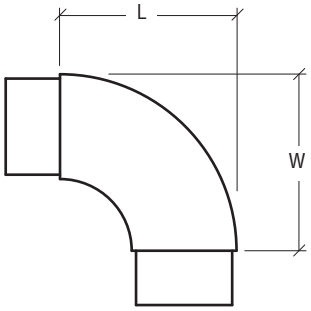
END SCROLLS FOR 2" (50.8 MM) TUBING

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 Railing End Caps can be combined for quantity pricing.

CRL EZ Radius 90 Degree Corners

- Ready to Install
- Three Architectural Finishes



NOTE: Use Cat. No. 32629 Metal Contact Cement for a secure and permanent bond (see page B337).

EZ RADIUS 90 DEGREE CORNERS FOR 1-1/2" (38.1 MM) 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.

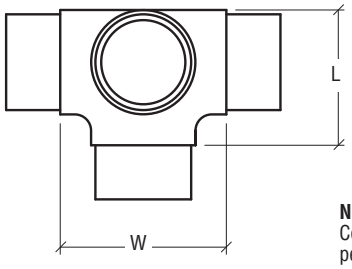
EZ RADIUS 90 DEGREE CORNERS FOR 2" (50.8 MM) TUBING

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
- Three Architectural Finishes



NOTE: Use Cat. No. 32629 Metal Contact Cement for a secure and permanent bond (see page B337).

SIDE OUTLET TEES FOR 1-1/2" (38.1 MM) TUBING

CAT. NO.	FINISH	"L" LENGTH	"W" WIDTH
HR15LBS	Brushed Stainless	2" (50 mm)	2-7/16" (61.4 mm)
HR15LPS	Polished Stainless	2" (50 mm)	2-7/16" (61.4 mm)
HR15LPB	Polished Brass	2" (50 mm)	2-7/16" (61.4 mm)

Minimum order: 1 each. All Hand Rail Fittings can be combined for quantity pricing.

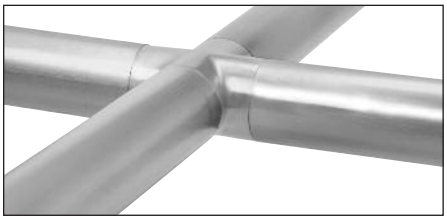
SIDE OUTLET TEES FOR 2" (50.8 MM) TUBING

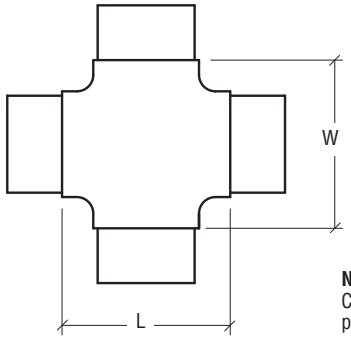
CAT. NO.	FINISH	"L" LENGTH	"W" WIDTH
HR20LBS	Brushed Stainless	2-3/8" (60 mm)	2-11/16" (68.5 mm)
HR20LPS	Polished Stainless	2-3/8" (60 mm)	2-11/16" (68.5 mm)
HR20LPB	Polished Brass	2-3/8" (60 mm)	2-11/16" (68.5 mm)

Minimum order: 1 each. All Hand Rail Fittings can be combined for quantity pricing.

CRL Flush Crosses

- Ready to Install
- Three Architectural Finishes





NOTE: Use Cat. No. 32629 Metal Contact Cement for a secure and permanent bond (see page B337).

FLUSH CROSSES FOR 1-1/2" (38.1 MM) TUBING

CAT. NO.	FINISH	"L" LENGTH	"W" WIDTH
HR15NBS	Brushed Stainless	2-7/16" (61.4 mm)	2-7/16" (61.4 mm)
HR15NPS	Polished Stainless	2-7/16" (61.4 mm)	2-7/16" (61.4 mm)
HR15NPB	Polished Brass	2-7/16" (61.4 mm)	2-7/16" (61.4 mm)

Minimum order: 1 each. All Hand Rail Fittings can be combined for quantity pricing.

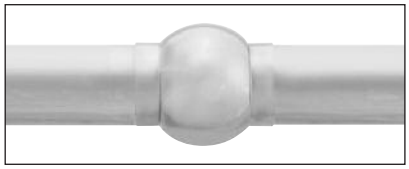
FLUSH CROSSES FOR 2" (50.8 MM) TUBING

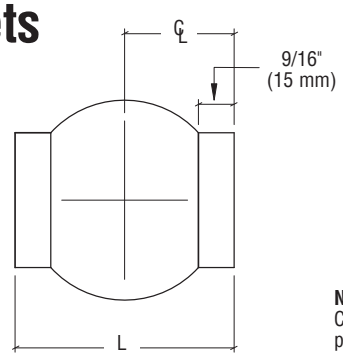
CAT. NO.	FINISH	"L" LENGTH	"W" WIDTH
HR20NBS	Brushed Stainless	2-11/16" (68.5 mm)	2-11/16" (68.5 mm)
HR20NPS	Polished Stainless	2-11/16" (68.5 mm)	2-11/16" (68.5 mm)
HR20NPB	Polished Brass	2-11/16" (68.5 mm)	2-11/16" (68.5 mm)

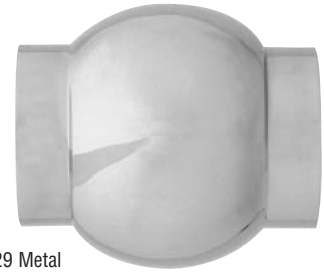
Minimum order: 1 each. All Hand Rail Fittings can be combined for quantity pricing.

CRL Ball Type Inline Outlets

- Ready to Install
- Three Architectural Finishes
- Comes With Mounting Screws







NOTE: Use Cat. No. 32629 Metal Contact Cement for a secure and permanent bond (see page B337).

2-5/8" (66 MM) BALL TYPE INLINE OUTLETS FOR 1-1/2" (38.1 MM) TUBING

CAT. NO.	FINISH	"L"	"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.

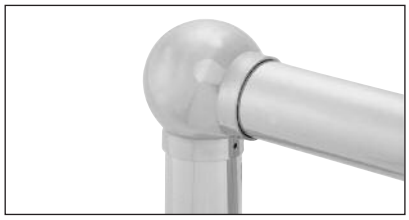
3-5/16" (84 MM) BALL TYPE INLINE OUTLETS FOR 2" (50.8 MM) TUBING

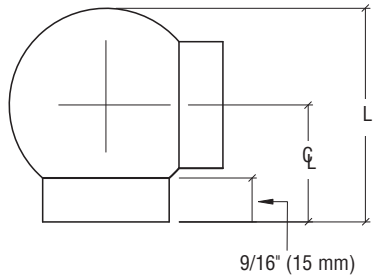
CAT. NO.	FINISH	"L"	"C/L"
HR20BABS	Brushed Stainless	3-5/8" (92 mm)	1-13/16" (46 mm)
HR20BAPS	Polished Stainless	3-5/8" (92 mm)	1-13/16" (46 mm)
HR20BAPB	Polished Brass	3-5/8" (92 mm)	1-13/16" (46 mm)

Minimum order: 1 each. All Hand Rail Fittings can be combined for quantity pricing.

CRL 90 Degree Ball Type Elbows

- Ready to Install
- Three Architectural Finishes
- Comes With Mounting Screws





NOTE: Use Cat. No. 32629 Metal Contact Cement for a secure and permanent bond (see page B337).

2-5/8" (66 MM) 90 DEGREE BALL TYPE ELBOWS FOR 1-1/2" (38.1 MM) TUBING

CAT. NO.	FINISH	"L"	"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.

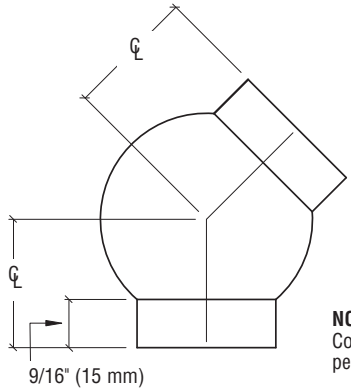
3-5/16" (84 MM) 90 DEGREE BALL TYPE ELBOWS FOR 2" (50.8 MM) TUBING

CAT. NO.	FINISH	"L"	"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
- Three Architectural Finishes
- Comes With Mounting Screws



NOTE: Use Cat. No. 32629 Metal Contact Cement for a secure and permanent bond (see page B337).

2-5/8" (66 MM) 135 DEGREE BALL TYPE ELBOWS FOR 1-1/2" (38.1 MM) 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.

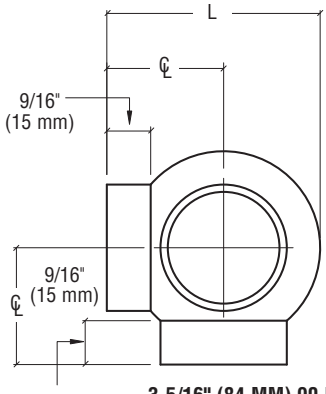
3-5/16" (84 MM) 135 DEGREE BALL TYPE ELBOWS FOR 2" (50.8 MM) TUBING

CAT. NO.	FINISH	"C/L"
HR20BMBS	Brushed Stainless	1-13/16" (46 mm)
HR20BMPS	Polished 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 90 Degree Ball Type Side Outlet Elbows

- Ready to Install
- Three Architectural Finishes
- Comes With Mounting Screws



NOTE: Use Cat. No. 32629 Metal Contact Cement for a secure and permanent bond (see page B337).

2-5/8" (66 MM) 90 DEGREE BALL TYPE SIDE OUTLET ELBOWS FOR 1-1/2" (38.1 MM) TUBING

CAT. NO.	FINISH	"L"	"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.

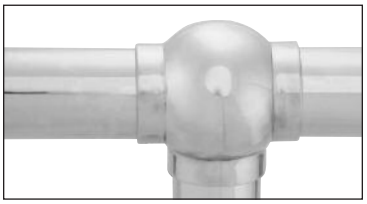
3-5/16" (84 MM) 90 DEGREE BALL TYPE SIDE OUTLET ELBOWS FOR 2" (50.8 MM) TUBING

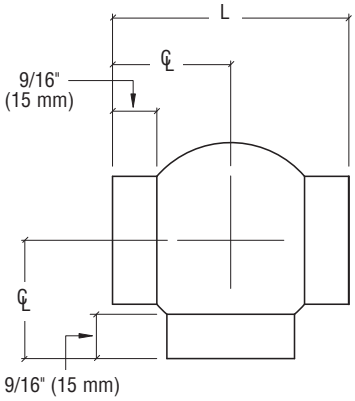
CAT. NO.	FINISH	"L"	"C/L"
HR20BJBS	Brushed Stainless	3-7/16" (88 mm)	1-13/16" (46 mm)
HR20BJPS	Polished Stainless	3-7/16" (88 mm)	1-13/16" (46 mm)
HR20BJPB	Polished Brass	3-7/16" (88 mm)	1-13/16" (46 mm)

Minimum order: 1 each. All Hand Rail Fittings can be combined for quantity pricing.

CRL Ball Type Tees

- Ready to Install
- Three Architectural Finishes
- Comes With Mounting Screws





NOTE: Use Cat. No. 32629 Metal Contact Cement for a secure and permanent bond (see page B337).

2-5/8" (66 MM) BALL TYPE TEES FOR 1-1/2" (38.1 MM) TUBING

CAT. NO.	FINISH	"L"	"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.

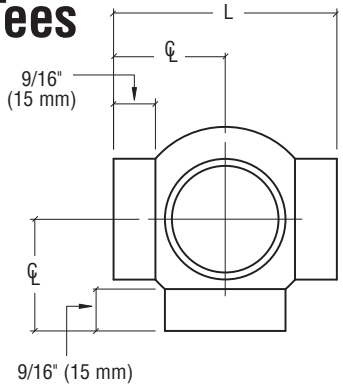
3-5/16" (84 MM) BALL TYPE TEES FOR 2" (50.8 MM) TUBING

CAT. NO.	FINISH	"L"	"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
- Three Architectural Finishes
- Comes With Mounting Screws



NOTE: Use Cat. No. 32629 Metal Contact Cement for a secure and permanent bond (see page B337).

2-5/8" (66 MM) BALL TYPE SIDE OUTLET TEES FOR 1-1/2" (38.1 MM) TUBING

CAT. NO.	FINISH	"L"	"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.

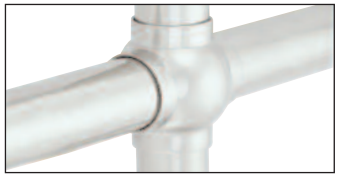
3-5/16" (84 MM) BALL TYPE SIDE OUTLET TEES FOR 2" (50.8 MM) TUBING

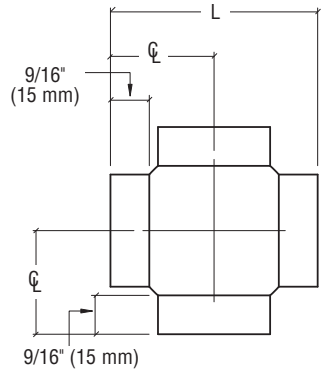
CAT. NO.	FINISH	"L"	"C/L"
HR20BLBS	Brushed Stainless	3-5/8" (92 mm)	1-13/16" (46 mm)
HR20BLPS	Polished Stainless	3-5/8" (92 mm)	1-13/16" (46 mm)
HR20BLPB	Polished Brass	3-5/8" (92 mm)	1-13/16" (46 mm)

Minimum order: 1 each. All Hand Rail Fittings can be combined for quantity pricing.

CRL Ball Type Crosses

- Ready to Install
- Three Architectural Finishes
- Comes With Mounting Screws





NOTE: Use Cat. No. 32629 Metal Contact Cement for a secure and permanent bond (see page B337).

2-5/8" (66 MM) BALL TYPE CROSSES FOR 1-1/2" (38.1 MM) 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.

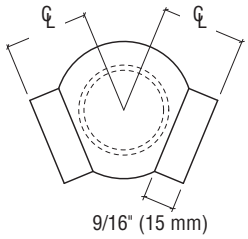
3-5/16" (84 MM) BALL TYPE CROSSES FOR 2" (50.8 MM) TUBING

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)

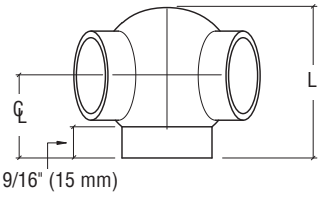
Minimum order: 1 each. All Hand Rail Fittings can be combined for quantity pricing.

CRL 135 Degree Ball Type Side Outlet Elbows

- Ready to Install
- Three Architectural Finishes
- Comes With Mounting Screws



NOTE: Use Cat. No. 32629 Metal Contact Cement for a secure and permanent bond (see page B337).



2-5/8" (66 MM) 135 DEGREE BALL TYPE SIDE OUTLET ELBOWS FOR 1-1/2" (38.1 MM) 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.

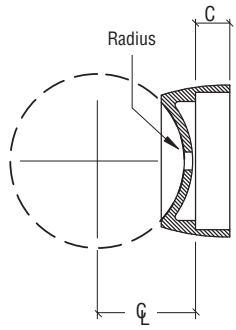
3-5/16" (84 MM) 135 DEGREE BALL TYPE SIDE OUTLET ELBOWS FOR 2" (50.8 MM) TUBING

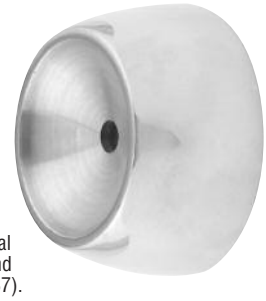
CAT. NO.	FINISH	"L"	"C/L"
HR20BPBS	Brushed Stainless	3-7/16" (88 mm)	1-13/16" (46 mm)
HR20BPPS	Polished Stainless	3-7/16" (88 mm)	1-13/16" (46 mm)
HR20BPPB	Polished Brass	3-7/16" (88 mm)	1-13/16" (46 mm)

Minimum order: 1 each. All Hand Rail Fittings can be combined for quantity pricing.

CRL Ball Type Angle Collars

- Ready to Install
- Three Architectural Finishes





NOTE: Use Cat. No. 32629 Metal Contact Cement for a secure and permanent bond (see page B337).

2-5/8" (66 MM) BALL TYPE ANGLE COLLARS FOR 1-1/2" (38.1 MM) TUBING

CAT. NO.	FINISH	"C"	"C/L"
HR15ACBS	Brushed Stainless	3/8" (9.5 mm)	1-1/2" (38.8 mm)
HR15ACPS	Polished Stainless	3/8" (9.5 mm)	1-1/2" (38.8 mm)
HR15ACPB	Polished Brass	3/8" (9.5 mm)	1-1/2" (38.8 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" (50.8 MM) TUBING

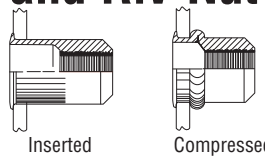
CAT. NO.	FINISH	"C"	"C/L"
HR20ACBS	Brushed Stainless	1/2" (12.5 mm)	2" (50.8 mm)
HR20ACPS	Polished Stainless	1/2" (12.5 mm)	2" (50.8 mm)
HR20ACPB	Polished Brass	1/2" (12.5 mm)	2" (50.8 mm)

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 25/61" diameter hole.

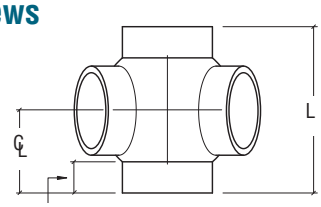


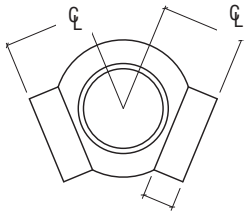
CAT. NO. SHCS14X1

CAT. NO. RN1420

CRL 135 Degree Ball Type Side Outlet Tees

- Ready to Install
- Three Architectural Finishes
- Comes With Mounting Screws





NOTE: Use Cat. No. 32629 Metal Contact Cement for a secure and permanent bond (see page B337).

2-5/8" (66 MM) 135 DEGREE BALL TYPE SIDE OUTLET TEES FOR 1-1/2" (38.1 MM) TUBING

CAT. NO.	FINISH	"L"	"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.

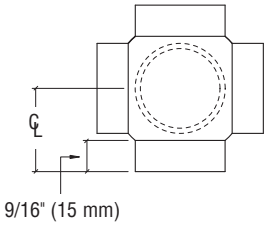
3-5/16" (84 MM) 135 DEGREE BALL TYPE SIDE OUTLET TEES FOR 2" (50.8 MM) TUBING

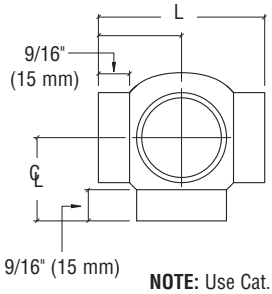
CAT. NO.	FINISH	"L"	"C/L"
HR20BQBS	Brushed Stainless	3-5/8" (92 mm)	1-13/16" (46 mm)
HR20BQPS	Polished Stainless	3-5/8" (92 mm)	1-13/16" (46 mm)
HR20BQPB	Polished Brass	3-5/8" (92 mm)	1-13/16" (46 mm)

Minimum order: 1 each. All Hand Rail Fittings can be combined for quantity pricing.

CRL Ball Type Outlet Crosses

- Ready to Install
- Three Architectural Finishes
- Comes With Mounting Screws





NOTE: Use Cat. No. 32629 Metal Contact Cement for a secure and permanent bond (see page B337).

2-5/8" (66 MM) BALL TYPE SIDE OUTLET CROSSES FOR 1-1/2" (38.1 MM) TUBING

CAT. NO.	FINISH	"L"	"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.

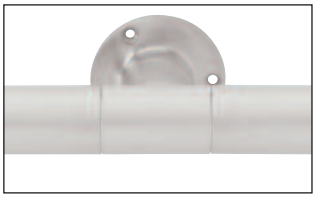
3-5/16" (84 MM) BALL TYPE SIDE OUTLET CROSSES FOR 2" (50.8 MM) TUBING

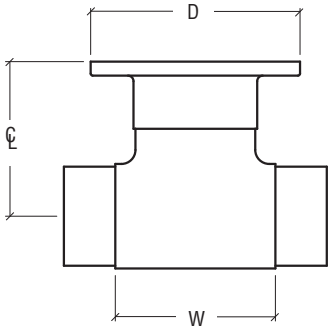
CAT. NO.	FINISH	"L"	"C/L"
HR20BRBS	Brushed Stainless	3-5/8" (92 mm)	1-13/16" (46 mm)
HR20BRPS	Polished Stainless	3-5/8" (92 mm)	1-13/16" (46 mm)
HR20BRPB	Polished Brass	3-5/8" (92 mm)	1-13/16" (46 mm)

Minimum order: 1 each. All Hand Rail Fittings can be combined for quantity pricing.

CRL Flush Wall Mount Tees

- Ready to Install
- Three Architectural Finishes
- Comes With Mounting Screws





NOTE: Use Cat. No. 32629 Metal Contact Cement for a secure and permanent bond (see page B337).

FLUSH WALL MOUNT TEES FOR 1-1/2" (38.1 MM) TUBING

CAT. NO.	FINISH	"D"	"W"	"C/L"
HR15UBS	Brushed Stainless	3" (76.5 mm)	2-1/4" (57 mm)	2-3/4" (70 mm)
HR15UPS	Polished Stainless	3" (76.5 mm)	2-1/4" (57 mm)	2-3/4" (70 mm)
HR15UPB	Polished Brass	3" (76.5 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.

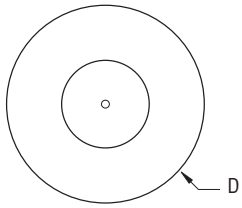
FLUSH WALL MOUNT TEES FOR 2" (50.8 MM) TUBING

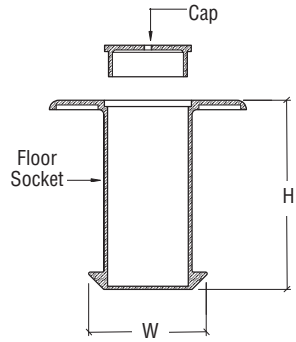
CAT. NO.	FINISH	"D"	"W"	"C/L"
HR20UBS	Brushed Stainless	4" (101.6 mm)	3-1/16" (77 mm)	3" (76 mm)
HR20UPS	Polished Stainless	4" (101.6 mm)	3-1/16" (77 mm)	3" (76 mm)
HR20UPB	Polished Brass	4" (101.6 mm)	3-1/16" (77 mm)	3" (76 mm)

Minimum order: 1 each. All Hand Rail Fittings can be combined for quantity pricing.

CRL Floor Sockets With Cap

- Ready to Install
- Three Architectural Finishes





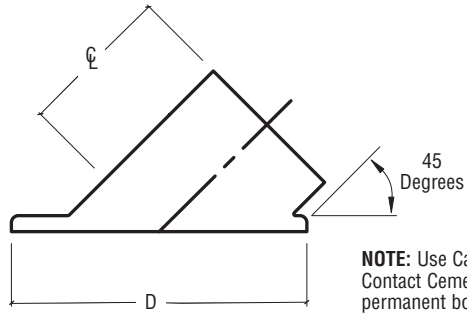
FLOOR SOCKET WITH CAP FOR 2" (50.8 MM) TUBING

CAT. NO.	FINISH	"D"	"H"	"W"
HR20FSBS	Brushed Stainless	5" (125 mm)	4-3/4" (120 mm)	3-1/4" (82.5 mm)
HR20FSPS	Polished Stainless	5" (125 mm)	4-3/4" (120 mm)	3-1/4" (82.5 mm)
HR20FSPB	Polished Brass	5" (125 mm)	4-3/4" (120 mm)	3-1/4" (82.5 mm)

Minimum order: 1 each. All Hand Rail Fittings can be combined for quantity pricing.

CRL 45 Degree Angle Flanges

- Ready to Install
- Three Architectural Finishes
- Comes With Mounting Screws



NOTE: Use Cat. No. 32629 Metal Contact Cement for a secure and permanent bond (see page B337).

45 DEGREE ANGLE FLANGES FOR 1-1/2" (38.1 MM) TUBING

CAT. NO.	FINISH	"D"	"C/L"
HR15AFBS	Brushed Stainless	3-1/8" (79 mm)	1-11/16" (42.2 mm)
HR15AFPS	Polished Stainless	3-1/8" (79 mm)	1-11/16" (42.2 mm)
HR15AFPB	Polished Brass	3-1/8" (79 mm)	1-11/16" (42.2 mm)

Minimum order: 1 each. All Hand Rail Fittings can be combined for quantity pricing.

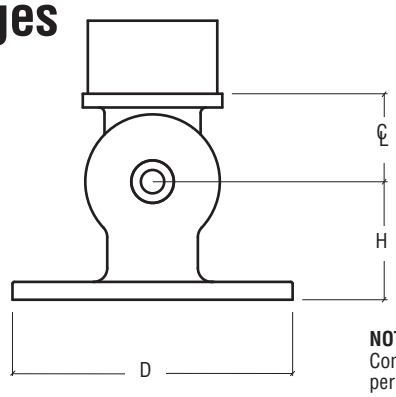
45 DEGREE ANGLE FLANGES FOR 2" (50.8 MM) TUBING

CAT. NO.	FINISH	"D"	"C/L"
HR20AFBS	Brushed Stainless	5" (127 mm)	2-7/16" (62.6 mm)
HR20AFPS	Polished Stainless	5" (127 mm)	2-7/16" (62.6 mm)
HR20AFPB	Polished Brass	5" (127 mm)	2-7/16" (62.6 mm)

Minimum order: 1 each. All Hand Rail Fittings can be combined for quantity pricing.

CRL Adjustable Flanges

- Ready to Install
- Three Architectural Finishes
- Comes With Mounting Screws



NOTE: Use Cat. No. 32629 Metal Contact Cement for a secure and permanent bond (see page B337).

ADJUSTABLE FLANGES FOR 1-1/2" (38.1 MM) TUBING

CAT. NO.	FINISH	"D"	"H"	"C/L"
HR15PFBS	Brushed Stainless	3" (76.5 mm)	1-1/4" (32.3 mm)	15/16" (24 mm)
HR15PFPS	Polished Stainless	3" (76.5 mm)	1-1/4" (32.3 mm)	15/16" (24 mm)
HR15PFPB	Polished Brass	3" (76.5 mm)	1-1/4" (32.3 mm)	15/16" (24 mm)

Minimum order: 1 each. All Hand Rail Fittings can be combined for quantity pricing.

ADJUSTABLE FLANGES FOR 2" (50.8 MM) TUBING

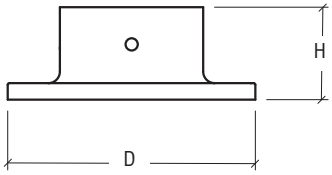
CAT. NO.	FINISH	"D"	"H"	"C/L"
HR20PFBS	Brushed Stainless	4" (102 mm)	1-11/16" (43 mm)	1-1/4" (32 mm)
HR20PFPS	Polished Stainless	4" (102 mm)	1-11/16" (43 mm)	1-1/4" (32 mm)
HR20PFPB	Polished Brass	4" (102 mm)	1-11/16" (43 mm)	1-1/4" (32 mm)

Minimum order: 1 each. All Hand Rail Fittings can be combined for quantity pricing.

CRL HRS HAND RAILING SYSTEMS

CRL Full Flanges

- Ready to Install
- Three Architectural Finishes
- Comes With Mounting Screws



NOTE: Use Cat. No. 32629 Metal Contact Cement for a secure and permanent bond (see page B337).

FULL FLANGES FOR 1-1/2" (38.1 MM) TUBING

CAT. NO.	FINISH	"D"	"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.

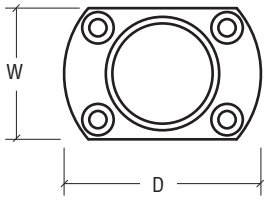
FULL FLANGES FOR 2" (50.8 MM) TUBING

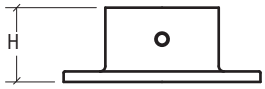
CAT. NO.	FINISH	"D"	"H"
HR20YBS	Brushed Stainless	3-15/16" (100 mm)	1-3/16" (30 mm)
HR20YPS	Polished Stainless	3-15/16" (100 mm)	1-3/16" (30 mm)
HR20YPB	Polished Brass	3-15/16" (100 mm)	1-3/16" (30 mm)

Minimum order: 1 each. All Hand Rail Fittings can be combined for quantity pricing.

CRL Cut Flanges

- Ready to Install
- Three Architectural Finishes
- Comes With Mounting Screws





NOTE: Use Cat. No. 32629 Metal Contact Cement for a secure and permanent bond (see page B337).

CUT FLANGES FOR 1-1/2" (38.1 MM) TUBING

CAT. NO.	FINISH	"D"	"W"	"H"
HR15ZBS	Brushed Stainless	2-15/16" (75 mm)	2" (50 mm)	1-1/8" (28.3 mm)
HR15ZPS	Polished Stainless	2-15/16" (75 mm)	2" (50 mm)	1-1/8" (28.3 mm)
HR15ZPB	Polished Brass	2-15/16" (75 mm)	2" (50 mm)	1-1/8" (28.3 mm)

Minimum order: 1 each. All Hand Rail Fittings can be combined for quantity pricing.

CUT FLANGES FOR 2" (50.8 MM) TUBING

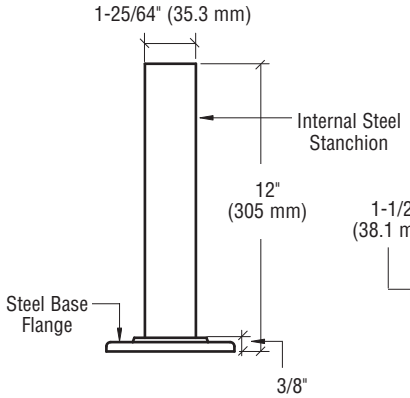
CAT. NO.	FINISH	"D"	"W"	"H"
HR20ZBS	Brushed Stainless	4" (102 mm)	2-5/8" (66.9 mm)	1-1/8" (28.3 mm)
HR20ZPS	Polished Stainless	4" (102 mm)	2-5/8" (66.9 mm)	1-1/8" (28.3 mm)
HR20ZPB	Polished Brass	4" (102 mm)	2-5/8" (66.9 mm)	1-1/8" (28.3 mm)

Minimum order: 1 each. All Hand Rail Fittings can be combined for quantity pricing.

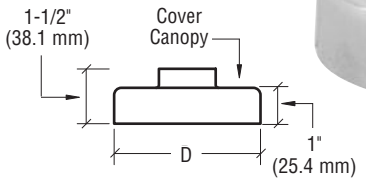
CRL Steel Flanges and Canopies

- Ready to Install
- Three Architectural Finishes
- Comes With Mounting Screws
- Available as a Complete Kit or the Canopy Only

Canopy slips over Steel Flange



Warning: Not designed for Guard Rail Applications



NOTE: Use Cat. No. 32629 Metal Contact Cement for a secure and permanent bond (see page B337).

STEEL FLANGES AND CANOPIES FOR 1-1/2" (38.1 MM) TUBING

KIT CAT. NO.	CANOPY ONLY CAT. NO.	FINISH	"D"
HR15XBS	HR15XCBS	Brushed Stainless	4-5/8" (117.5 mm)
HR15XPS	HR15XCPS	Polished Stainless	4-5/8" (117.5 mm)
HR15XPB	HR15XCPB	Polished Brass	4-5/8" (117.5 mm)

Minimum order: 1 each. All Hand Rail Fittings can be combined for quantity pricing.

STEEL FLANGES AND CANOPIES FOR 2" (50.8 MM) TUBING

KIT CAT. NO.	CANOPY ONLY CAT. NO.	FINISH	"D"
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.

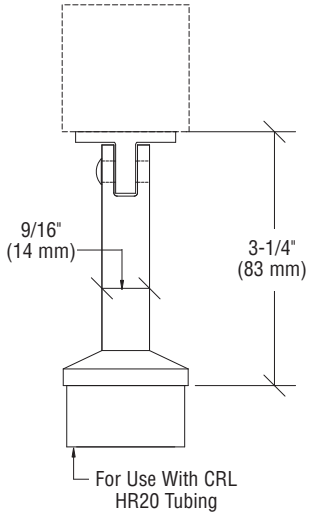
CRL Post Mounted Adjustable Flat Saddle Hand Rail Supports

new

- Designed to Attach to Square Style Hand Rails
- Comes With Mounting Screws
- Two Architectural Finishes
- For 2" (50.8 mm) Diameter Posts
- 316 Alloy Stainless Steel
- Ready to Install

CAT. NO.	FINISH
HR20ASBS	Brushed Stainless
HR20ASPS	Polished Stainless

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



Two Flat Head Phillips Self-Drilling 8-18 x 3/4" (19 mm) Long Stainless Steel Screws Included

NOTE: Use Cat. No. 32629 Metal Contact Cement (see page B337) for a secure and permanent bond

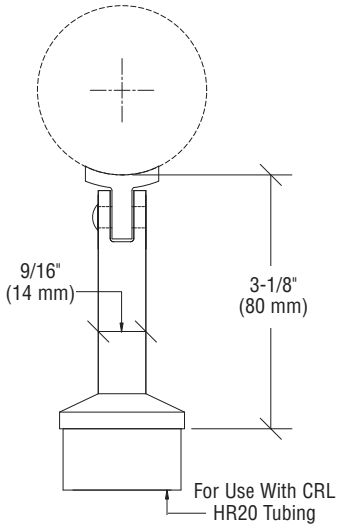
CRL Post Mounted Adjustable Radius Saddle Hand Rail Supports

new

- Designed to Attach to Round Style Hand Rails 1-1/2" to 2" (38.1 mm to 50.8 mm) in Diameter
- Comes With Mounting Screws
- Two Architectural Finishes
- For 2" (50.8 mm) Diameter Posts
- 316 Alloy Stainless Steel
- Ready to Install

CAT. NO.	FINISH
HR20ARBS	Brushed Stainless
HR20ARPS	Polished Stainless

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



Two Flat Head Phillips Self-Drilling 8-18 x 3/4" (19 mm) Long Stainless Steel Screws Included

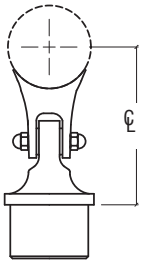
NOTE: Use Cat. No. 32629 Metal Contact Cement (see page B337) for a secure and permanent bond

CRL HRS HAND RAILING SYSTEMS

CRL Adjustable Saddles

- Ready to Install
- Three Architectural Finishes
- Comes With Mounting Screws

NOTE: Use Cat. No. 32629 Metal Contact Cement for a secure and permanent bond (see page B337).



ADJUSTABLE SADDLES FOR 1-1/2" (38.1 MM) TUBING

CAT. NO.	FINISH	"C/L"
HR15VABS	Brushed Stainless	2-7/8" (73 mm)
HR15VAPS	Polished Stainless	2-7/8" (73 mm)
HR15VAPB	Polished Brass	2-7/8" (73 mm)

Minimum order: 1 each. All Hand Rail Fittings can be combined for quantity pricing.

ADJUSTABLE SADDLES FOR 2" (50.8 MM) TUBING

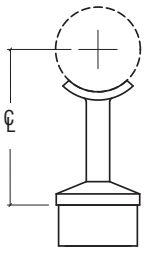
CAT. NO.	FINISH	"C/L"
HR20VABS	Brushed Stainless	3-1/2" (90 mm)
HR20VAPS	Polished Stainless	3-1/2" (90 mm)
HR20VAPB	Polished Brass	3-1/2" (90 mm)

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. 32629 Metal Contact Cement for a secure and permanent bond (see page B337).



STRAIGHT SADDLES FOR 1-1/2" (38.1 MM) TUBING

CAT. NO.	FINISH	"C/L"
HR15VSBS	Brushed Stainless	2-3/4" (70 mm)
HR15VSPS	Polished Stainless	2-3/4" (70 mm)
HR15VSPB	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" (50.8 MM) TUBING

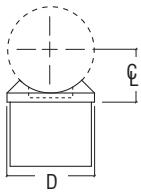
CAT. NO.	FINISH	"C/L"
HR20VSBS	Brushed Stainless	3-15/16" (100 mm)
HR20VSPS	Polished Stainless	3-15/16" (100 mm)
HR20VSPB	Polished Brass	3-15/16" (100 mm)

Minimum order: 1 each. All Hand Rail Fittings can be combined for quantity pricing.

CRL Perpendicular Collars

- Ready to Install
- Three Architectural Finishes

NOTE: Use Cat. No. 32629 Metal Contact Cement for a secure and permanent bond (see page B337).



PERPENDICULAR COLLARS FOR 1-1/2" (38.1 MM) TUBING

CAT. NO.	FINISH	"D"	"C/L"
HR15PCBS	Brushed Stainless	1-1/2" (38.1 mm)	7/8" (22.2 mm)
HR15PCPS	Polished Stainless	1-1/2" (38.1 mm)	7/8" (22.2 mm)
HR15PCPB	Polished Brass	1-1/2" (38.1 mm)	7/8" (22.2 mm)

Minimum order: 1 each. All Hand Rail Fittings can be combined for quantity pricing.

PERPENDICULAR COLLARS FOR 2" (50.8 MM) TUBING

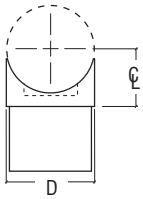
CAT. NO.	FINISH	"D"	"C/L"
HR20PCBS	Brushed Stainless	2" (50.8 mm)	1-1/4" (32 mm)
HR20PCPS	Polished Stainless	2" (50.8 mm)	1-1/4" (32 mm)
HR20PCPB	Polished Brass	2" (50.8 mm)	1-1/4" (32 mm)

Minimum order: 1 each. All Hand Rail Fittings can be combined for quantity pricing.

CRL Coped Perpendicular Collars

- Ready to Install
- Three Architectural Finishes

NOTE: Use Cat. No. 32629 Metal Contact Cement for a secure and permanent bond (see page B337).



COPED PERPENDICULAR COLLARS FOR 1-1/2" (38.1 MM) TUBING

CAT. NO.	FINISH	"D"	"C/L"
HR15CCBS	Brushed Stainless	1-1/2" (38.1 mm)	1" (25.4 mm)
HR15CCPS	Polished Stainless	1-1/2" (38.1 mm)	1" (25.4 mm)
HR15CCPB	Polished Brass	1-1/2" (38.1 mm)	1" (25.4 mm)

Minimum order: 1 each. All Hand Rail Fittings can be combined for quantity pricing.

COPED PERPENDICULAR COLLARS FOR 2" (50.8 MM) TUBING

CAT. NO.	FINISH	"D"	"C/L"
HR20CCBS	Brushed Stainless	2" (50.8 mm)	1-1/4" (32 mm)
HR20CCPS	Polished Stainless	2" (50.8 mm)	1-1/4" (32 mm)
HR20CCPB	Polished Brass	2" (50.8 mm)	1-1/4" (32 mm)

Minimum order: 1 each. All Hand Rail Fittings can be combined for quantity pricing.

CRL 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 2,700 psi**
- **Offers Handling Strength in 60 Seconds, Full Cure in 24 Hours**

MSDS SPEC. DATA

CAT. NO. 32629
Cement

CAT. NO. 7649
60 Second Primer

CAT. NO. 7075
5 Minute Primer

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.	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. (133 ml)

Minimum order: 1 each.

CRL Clear Loctite® Poxy-Pak™ Two-Part Epoxy

- **Pre-Measured Resin and Hardener for Easy Application, Consistent Strength**
- **Resealable - No Waste**
- **Bonds Virtually Any Material**

MSDS SPEC. DATA

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	QTY/CASE
81120	1 Fl. Oz. (29 ml)	12

Minimum order: 1 each.

CRL Wood Hand Rails

- **10' (3.05 m) Stock Lengths Available in a Variety of Hardwoods**
- **Custom Diameters and Shapes Also Available**

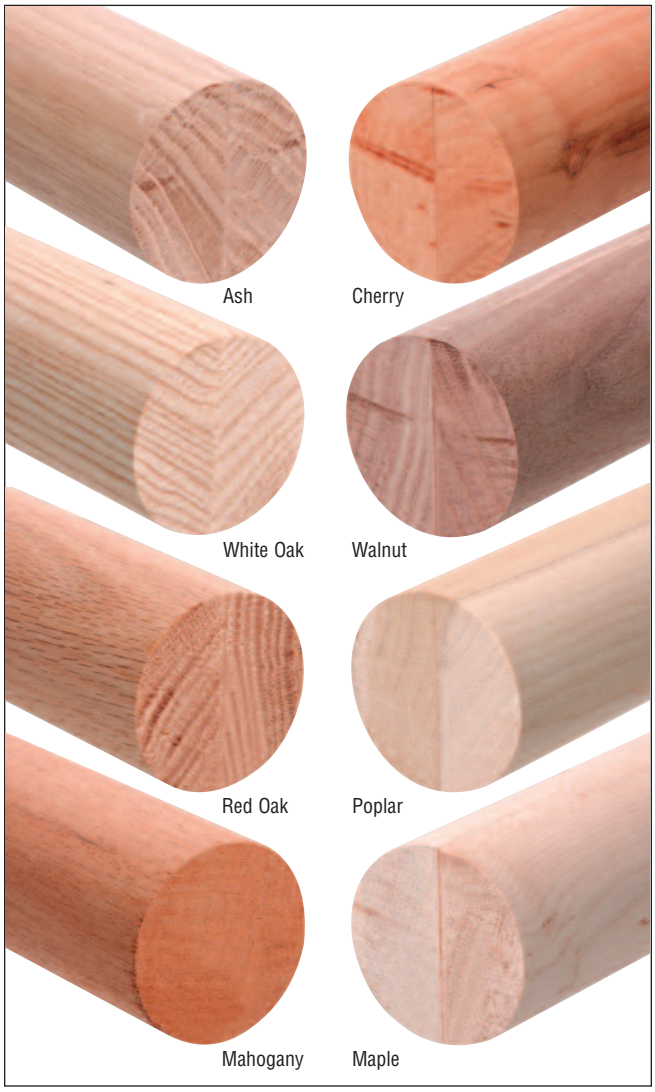
Wood Hand Rails add a "warmth and texture" that metal hand rails can't duplicate, and are very popular for their natural appearance and feel.

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" (38.1 mm) or 2" (50.8 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.



120" (3.05 M) WOOD HAND RAIL LENGTHS

1-1/2" (38.1 MM) DIAMETER CAT. NO.	2" (50.8 MM) DIAMETER CAT. NO.	WOOD TYPE
WD15WL	WD20WL	Walnut
WD15CR	WD20CR	Cherry
WD15MG	WD20MG	Mahogany
WD15W0	WD20W0	White Oak
WD15R0	WD20R0	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 regional warehouse.

CRL Wood Dome End Caps

- **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" (25.4 mm) thick, these End Caps are designed to be glued to the end of the CRL's Wood Hand Rails with wood glue (see next page). Contact CRL Technical Sales for more information.

1-1/2" (38.1 MM) DIAMETER END CAPS	2" (50.8 MM) DIAMETER END CAPS	WOOD TYPE
WRDC15WL	WRDC20WL	Walnut
WRDC15CR	WRDC20CR	Cherry
WRDC15MG	WRDC20MG	Mahogany
WRDC15W0	WRDC20W0	White Oak
WRDC15R0	WRDC20R0	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.

CRL HRS HAND RAILING SYSTEMS

CRL Titebond® III Wood Glue

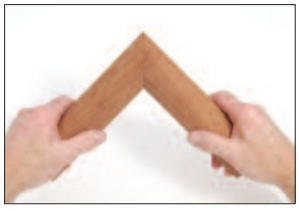
- Waterproof Formula
- Designed for Interior and Exterior Applications
- Assembly Time: 10 Minutes
- Clamping Time: 30 Minutes
- Set Time: 24 Hours

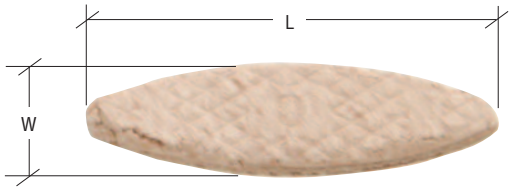
Use CRL Titebond® III Wood Glue when joining Wood Cap Rails, mitered Wood Hand Rail Corners, and installing Wood End Caps. This waterproof, water based formula passes Type 1 water-resistance specifications and conforms to ASTM D-4236. Unaffected by finishes, Titebond® Glue will fully set up within 24 hours, and can be used for interior and exterior applications.

CAT. NO.	CONTENTS
CRLWG1	8 Oz. (236 ml)

Minimum order: 1 each.

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" (3.2 mm) thick Biscuit swells within the joint to provide excellent holding power.

CAT. NO.	"W" WIDTH	"L" LENGTH	QTY/CTN
CRLWB1	5/8" (16 mm)	1-11/16" (43 mm)	25 Biscuits

Minimum order: 1 carton.

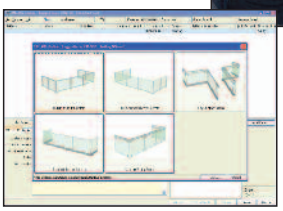
CRL Hand Railing Quote/Order Checklist

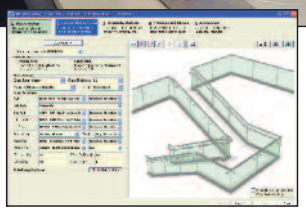
This Hand Railing Quote/Order Checklist is designed to assist you in covering the details required to complete a Hand Railing installation. Mark the boxes in the Checklist area that apply to your installation. Going through this exercise should prevent you from overlooking any details related to your installation, and assist you in making product selections. The Product Selection area is where you can actually write down the complete catalog numbers of the products you have selected.

IMPORTANT: Depending on the complexity of your project, one or more of the following may be required: sketches or drawings (with dimensions) of your particular application; printed architectural drawings or CAD files; photos (preferably digital) of job site conditions.
NOTE: A final sign off is required prior to any custom fabrication.
This form is also available online at **crlaurence.com**.

Hand Rails Online

See pages B104-B105 for details on our web-based Design and Glass Sizing Program that makes your job easier than ever. A FREE 30 day trial is available to authorized CRL customers.





Company Name: _____ Phone #: _____

Project Name: _____ Contact Name: _____

E-mail Address: _____

Date: _____

Checklist:

(Fill in All Appropriate Boxes Relating to the Job)

1 Hand Railing Tubing Diameter and Finish (See Pages B311-B312, B338-B339)

- ❑ 1-1/4" (31.8 mm) Round
- ❑ 1-1/2" (38.1 mm) Round
- ❑ 1-1/2" (38.1 mm) Square
- ❑ 1.9" (48.3 mm) Round
- ❑ 2" (50.8 mm) Round
- ❑ Painted _____

- ❑ Brushed Stainless Steel US32D
- ❑ Mill Aluminum
- ❑ Brushed Stainless Steel US32D

- ❑ Polished Stainless Steel US32
- ❑ Duranodic Bronze
- ❑ Polished Stainless Steel US32

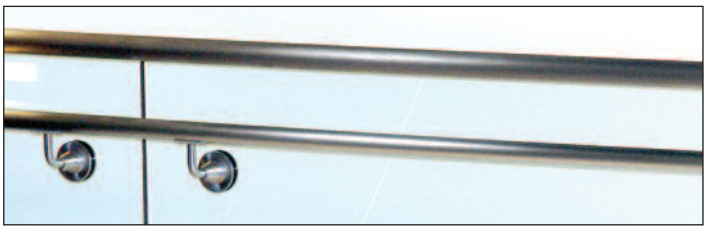
- ❑ Polished Brass US3
- ❑ Satin Anodized
- ❑ Polished Brass US3

- ❑ Wood Type _____

❑ Custom _____

2 Hand Railing Accessories (See Pages B313-B337)

❑ End Caps	❑ Stock	❑ Custom
❑ Corners	❑ Stock	❑ Custom
❑ Elbows and Tees	❑ Stock	❑ Custom
❑ Flanges	❑ Stock	❑ Custom
❑ Brackets	❑ Glass Mount	❑ Wall Mount
❑ Connector Sleeves		



Product Selection:

(Fill in Appropriate Areas for All Products That Will Be Required for the Job)

PRODUCT	CAT. NO.	QTY.
Hand Railing Tubing		
End Caps		
Wall Returns		
Corners/Elbows		
Connector Sleeves		

PRODUCT	CAT. NO.	QTY.
Crosses		
Saddles		
Collars		
Metal Contact Cement		
Other		

Fax Completed Checklist to C.R. Laurence Technical Sales at (800) 587-7501 in the U.S., or (323) 584-5289 (Canada and International).
Then call to discuss: (800) 421-6144 (U.S.), (877) 421-6144 (Canada), or (323) 588-1281 (International). Ask for Extension 7730.

CRL GRS CAP RAILING SYSTEM

Glass Mounted Hand Rail Checklist:

OPTIONAL HAND RAIL

- ❑ 1-1/2" Diameter .050" Wall Thickness
- ❑ 1.66" O.D. 1-1/4" Schedule 40 .140" Wall Thickness
- ❑ 1.9" O.D. 1-1/2" Schedule 40 .145" Wall Thickness
- ❑ 2" Diameter .050" Wall Thickness
- ❑ Other (Specify)_____
- ❑ None Required

HAND RAIL END CAPS

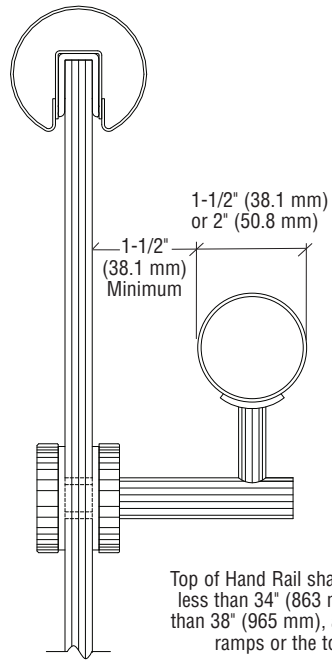
- ❑ Standard Applied Flat End Caps
- ❑ Standard Applied Dome End Caps
- ❑ Stabilizing Wall Mount Flat End Caps
- ❑ Welded Flat End Caps
- ❑ Custom Angle End Caps (Specify)_____

FINISH

- ❑ Brushed Stainless Steel
- ❑ Polished Stainless Steel
- ❑ Satin Brass
- ❑ Polished Brass
- ❑ Powder Coated Aluminum
- ❑ Mill Finish
- ❑ Wood (Specify Type)_____
- ❑ Custom (Specify)_____

OPTIONAL HAND RAIL GLASS BRACKETS

- ❑ Standard Glass Mounted Hand Rail Brackets
- ❑ 2-Way Adjustable Glass Mounted Hand Rail Brackets
- ❑ 3-Way Adjustable Glass Mounted Hand Rail Brackets



The hand grip portion of the Hand Rails shall not be less than 1-1/4" (31.7 mm), and no more than 2" (50.8 mm) in cross sectional dimension.

NOTE: Codes vary from region to region. Review local building codes for handrail code requirements before ordering.

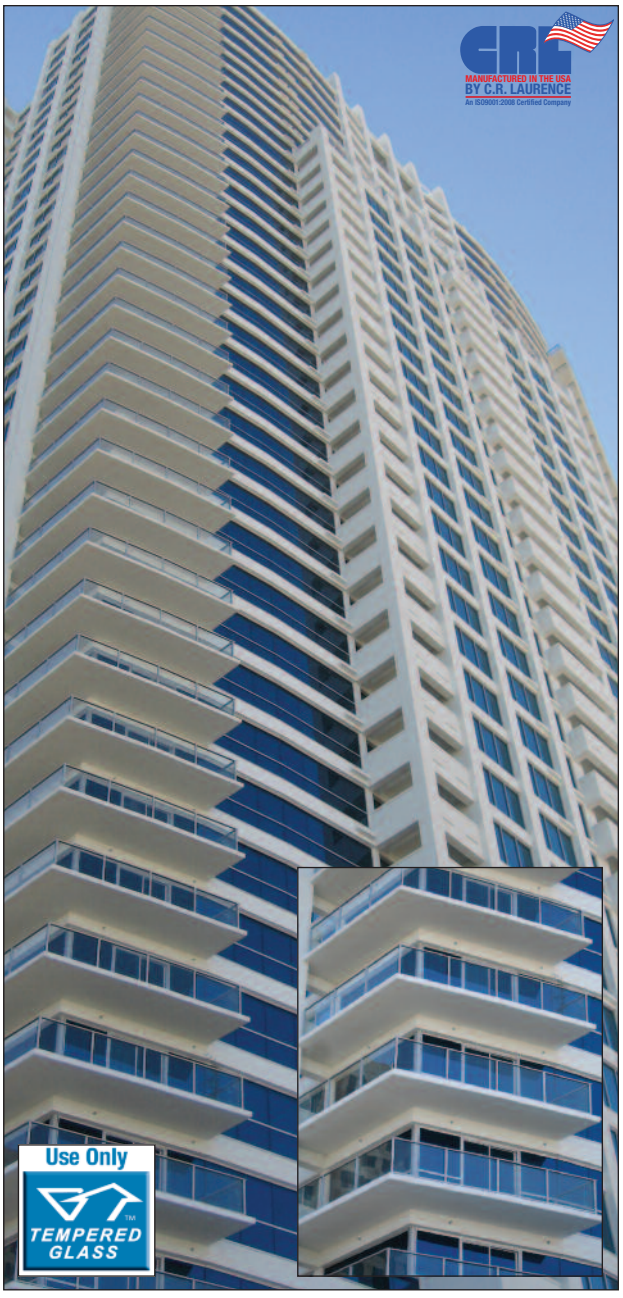
Top of Hand Rail shall not be placed less than 34" (863 mm), nor more than 38" (965 mm), above landings, ramps or the toe of step.

LAYOUT GRID TO SKETCH DESIGN

CRL ARS Aluminum Railing System

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 additional 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) clear or tinted 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 316 alloy 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.

CRL ARS Aluminum Railing System

CRL's high quality commercial or residential Aluminum Railing Systems are manufactured from extruded aluminum framing members utilizing infill options of 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.

Design Options

- Exterior and Interior Hand Rails and Guard Rails
- Infill Panel Options: Aluminum Pickets, Aluminum Pattern Panels, Clear or Coated Structural Glass, or Stainless Steel Cable
- Custom Gates
- ADA Compliant Grab Rails
- Attractive Low-Voltage, Post Mounted Lighting System for Our Railing Systems. Using a Safe, 12 Volt Power Source, These Lights Provide a Subtle Glow That is Sure to Enhance Any Balcony Environment

Component Features and Benefits

- Innovative Design Details for Standard or Custom Applications
- Extruded Aluminum for Durability, Weather Resistance, and Low Maintenance
- Heavy Gauge Materials and Steel Embeds for Strength
- Uses 1/4" to 1/2" (6 to 12 mm) Tempered Glass for Safety and Impact Resistance

Color Selection

- Tough, Powder-Coated or Optional Kynar Paint Colors for Superior Color Retention and Weather Resistance
- Special Coating for Resistance to Salt Water Corrosion

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 unfinished chromate, 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.

Standard Colors

- In-House Factory Applied
- Baked on TGIC Polyester Powder Coat Paint System
- Excellent Weatherability and Durability
- Meets AAMA 2603-98 Specifications

Additional Color Options

- A Variety of Textured and Performance Enhanced Powder Coat Paint Systems
- Custom Color Matching
- 50% and 70% Kynar Paint Systems to Meet Stringent AAMA 2604-98 and 2605-98 Commercial Specifications
- All Paint Systems Will Be Applied Over State-of-the-Art Chromate Pre-Treatment

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.

- 2-3/8" and 4" (60.3 and 101.6 mm) Square Posts Available
- Seven Standard Powder Paint Colors Available, Plus Unfinished Chromate
- Custom Colors Also Available

Standard Colors
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.

CRL Aluminum Railing System Mounting Options

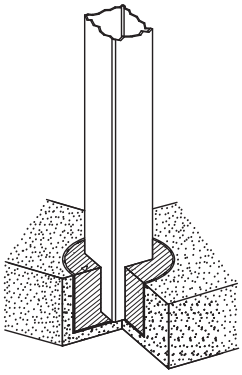
CRL's high quality commercial or residential Aluminum Railing Systems are manufactured from extruded aluminum framing members utilizing tempered glass, aluminum pickets, stainless steel cable, cast or water jet/laser cut infills, that are engineered to meet applicable building code specifications. Regardless 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.

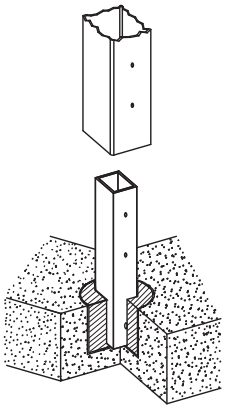
Our specially formulated coatings are designed to resist the corrosive effects of salt water, providing a permanent, worry-free addition to your building. We manufacture a comprehensive selection of railing systems that combine the durability of extruded aluminum with innovative design details. This 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.

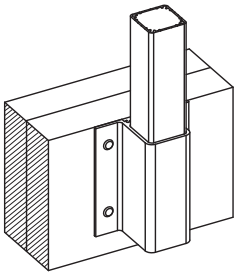
Typical Mounting Options



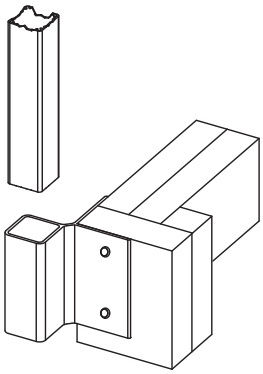
Core Mounted
Installation



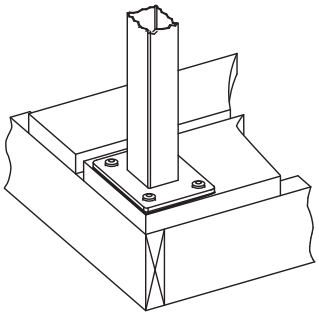
Core Mounted
With Stanchion Installation



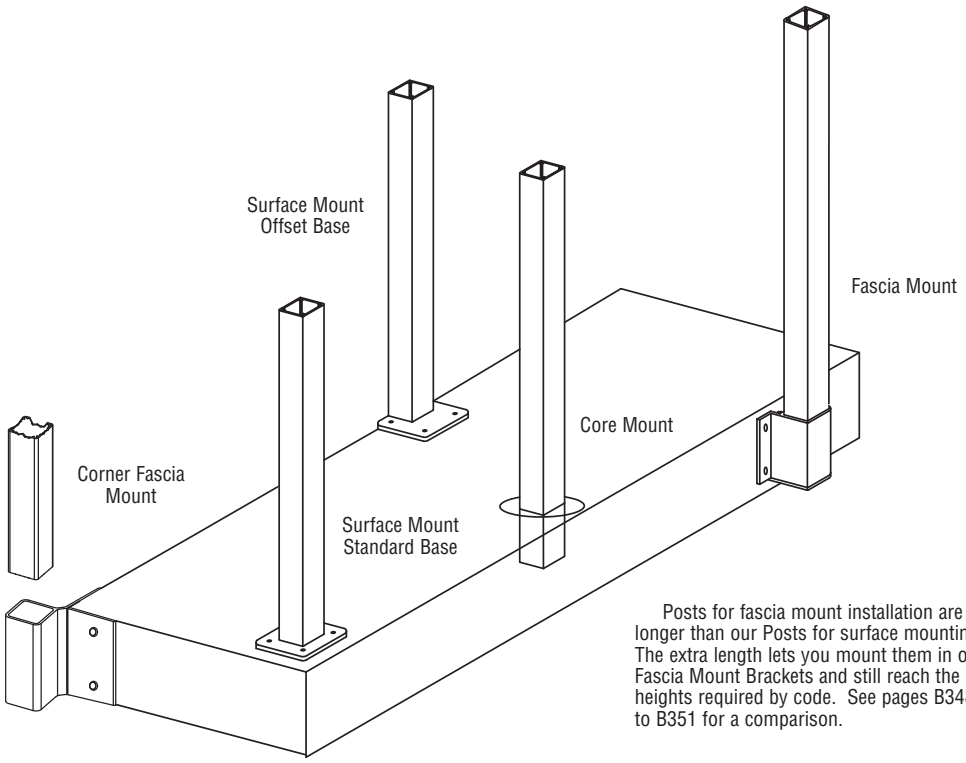
Fascia Mounted
Installation



Corner Fascia Mount
Installation



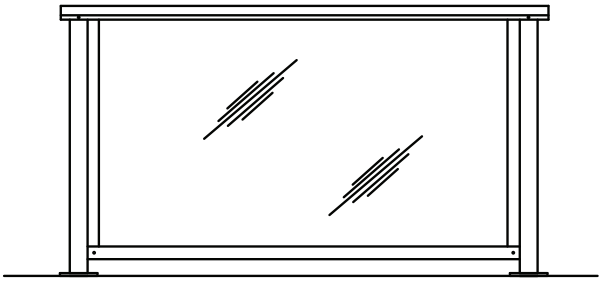
Surface Mounted
Standard Base
With Moisture Barrier Gasket
Between Bracket
and Substrate



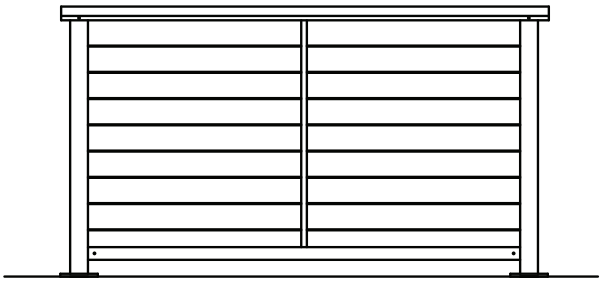
Posts for fascia mount installation are longer than our Posts for surface mounting. The extra length lets you mount them in our Fascia Mount Brackets and still reach the rail heights required by code. See pages B348 to B351 for a comparison.

Infill Options

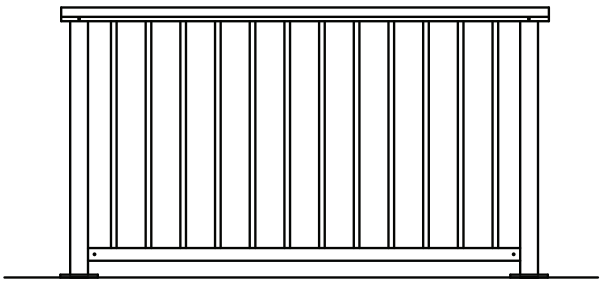
CRL offers the five Infill Options shown here. Utilizing our state-of-the-art manufacturing facility we can produce almost any desired design to meet your project specifications. All of the Infill Options shown are designed to work with all CRL Aluminum Railing Systems.



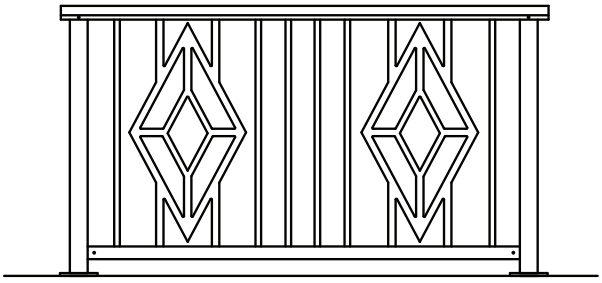
1/4" (6 mm) through 1/2" (12 mm) Tempered Glazing



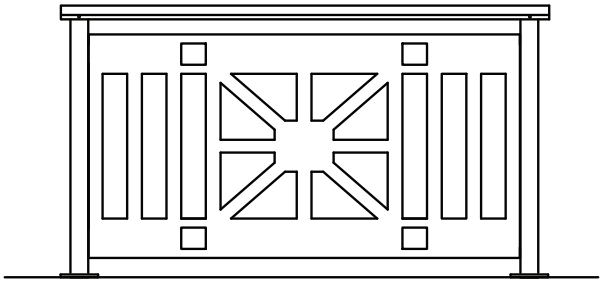
Horizontal 1/8" (3.2 mm) Diameter Type 316 Stainless Steel Cable



3/4" (19 mm) Square or Round Aluminum Picket Panels



Cast Aluminum Panels



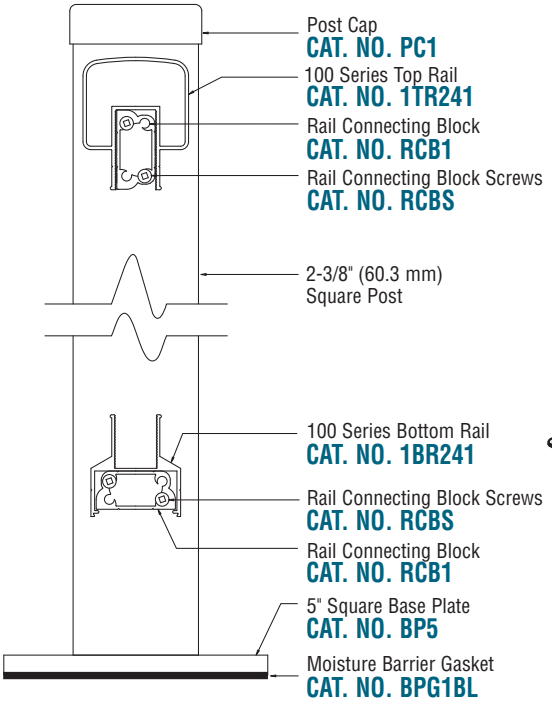
Custom Water Jet/Laser Cut Panels

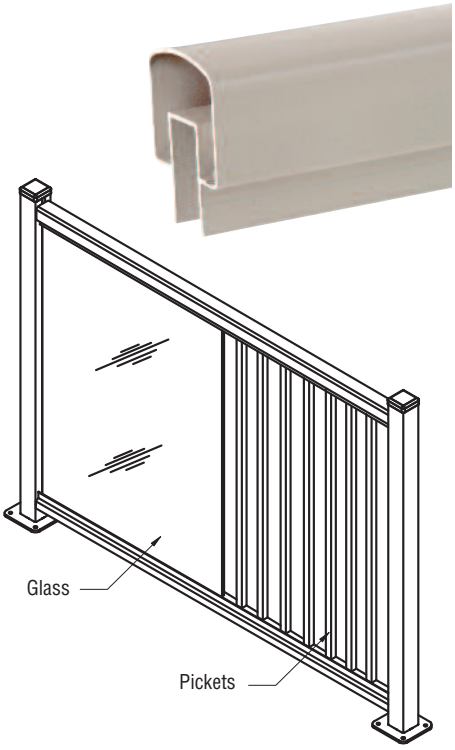
CRL 100 Series Railing System for Straight Runs

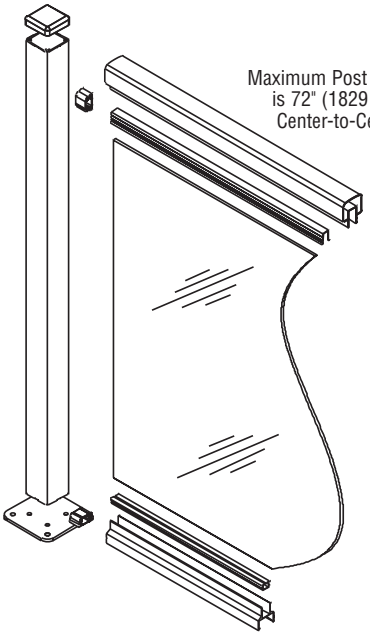
The 100 Series is definitely the most diversified of all the CRL Aluminum Railing Systems. The reason is simple. It is the only system that can meet the requirements of both a deck railing, commonly referred to as a guard rail, and also meet code requirements for stairways, sometimes called hand rails.

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 B354). 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" (98.4 mm); the maximum allowable distance pickets can be spaced and still meet current national code requirements.

- 6005-T5 Aluminum Alloy
- Surface Mount, Core Mount or Fascia Mount Applications
- Standard Rail Heights are 36" (914 mm), 42" (1066 mm), and 48" (1219 mm). Custom Rail Heights Also Available
- Glass Infill Panel Options: 1/4" (6 mm), 3/8" (10 mm) or 1/2" (12 mm)
- Available With Decorative Cast Infill Panels, 5/8" (15.9 mm) Square Aluminum Pickets, or Stainless Steel Cable
- Custom Water Jet/Laser Cut Infill Panels Also Available
- ADA Compliant Guard Rails and Hand Rails
- Seven Standard Colors Available From Stock, Plus Unfinished Chromate
- Custom Colors Also Available
- 60" (1524 mm) Recommended Post Spacing





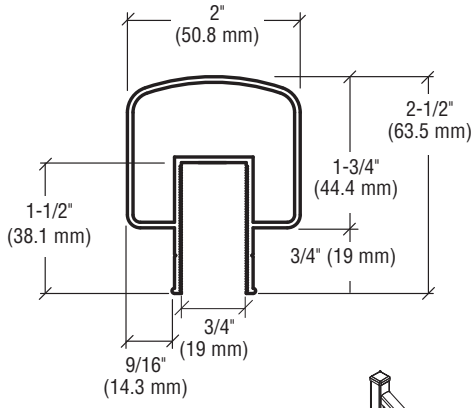


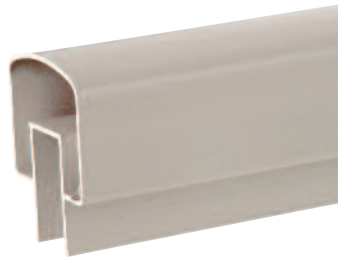
CRL 100 Series Railing System for Stairways

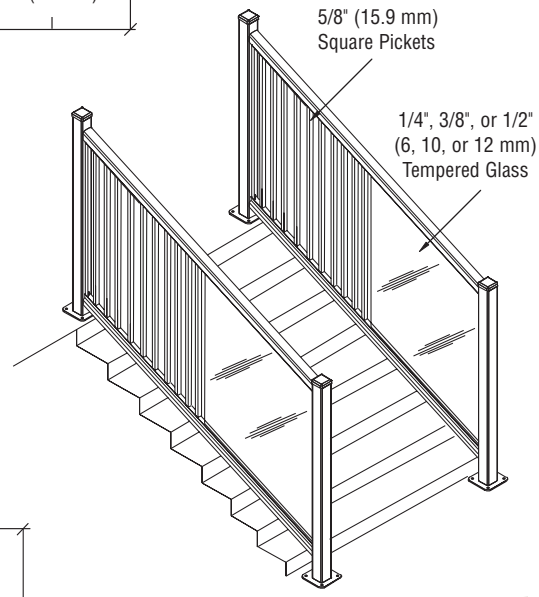
The 100 Series Top Rail also meets code requirements for the hand rail on Stairways. 100 Series Railings are available in seven standard colors, plus unfinished chromate, and three standard heights.

- **Deck (Top) Mount or Fascia Mount Applications in Seven Standard Colors Available From Stock**
- **Core Mount Applications Also Available**
- **Standard Rail Heights are 36" (914 mm), 42" (1066 mm), and 48" (1219 mm). Custom Rail Heights Also Available**
- **Glass Infill Panel Options: 1/4" (6 mm), 3/8" (10 mm) or 1/2" (12 mm)**
- **Infill Options: Decorative Solid Cast Aluminum Panels, 5/8" (15.9 mm) Square Pickets, or Stainless Steel Cable**
- **Custom Water Jet/Laser Cut Infill Panels Also Available**
- **ADA Compliant Guard Rails and Hand Rails**
- **Seven Attractive Colors, Plus Unfinished Chromate Available From Stock**
- **Custom Powder Coat Colors Also Available**
- **60" (1524 mm) Recommended Post Spacing**

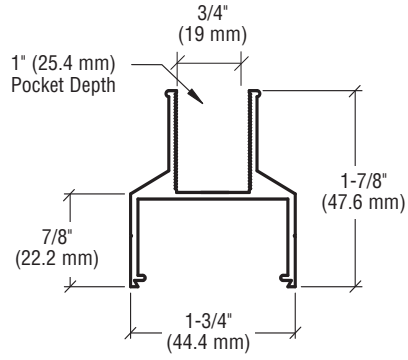
100 Series Top Rail
(See page B355)

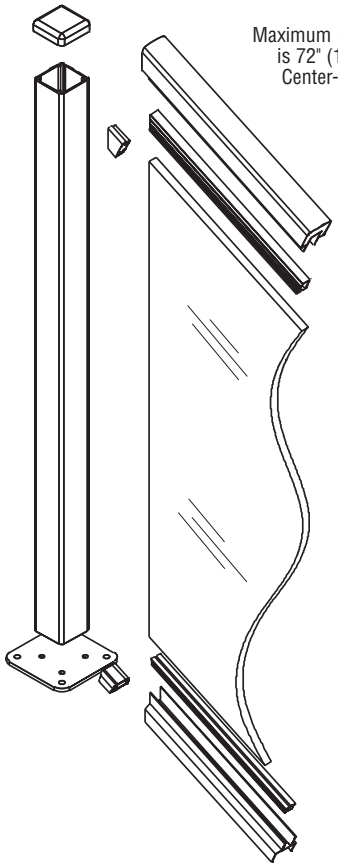






100 Series Bottom Rail
(See page B355)





CRL Surface Mount Post Kits for 100 Series Rails

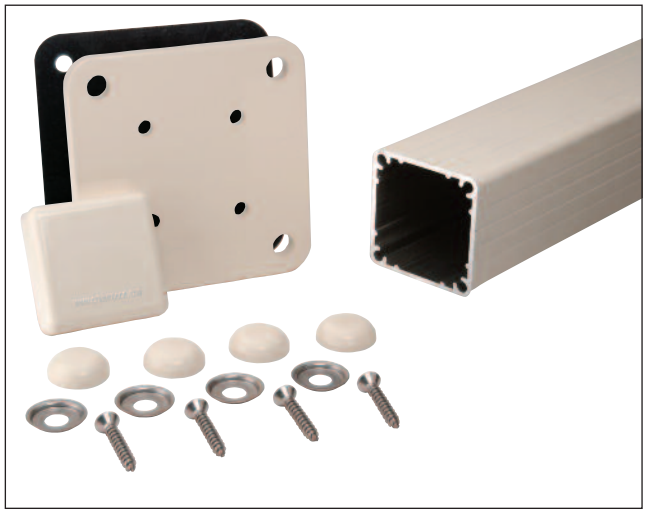
- 2-3/8" (60.3 mm) Square Post
- Use for 180 Degree, 90 Degree or End Posts
- Three Standard Post Heights
- Complete With Post Cap, Base Plate, Moisture Barrier Gasket, Stainless Washers, Screws, and Bolt Cover Buttons
- Seven Attractive Colors, Plus Unfinished Chromate Available From Stock
- Custom Powder Coat Colors Also Available
- 6005 Alloy Aluminum/T5 Temper Posts

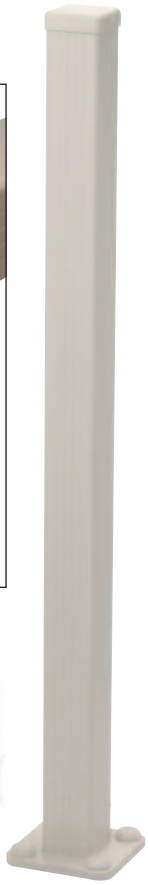
CRL 100 Series Surface Mount Post Kits come complete with Base Plate (BP5), Moisture Barrier Gasket (BPG1BL), Base Plate Screws (BPS112), Stainless Steel Washers (WSHR1), Bolt Cover Buttons (BTN1), and Post Caps (PC1). See page B381 for Lag Bolts or Anchors for mounting to the substrate Standard Post Kits are available in your choice of three heights and seven attractive colors, plus unfinished chromate. Custom heights and colors are also available.

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 when ordering.

Standard Kits Include:





STANDARD COLORS

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.

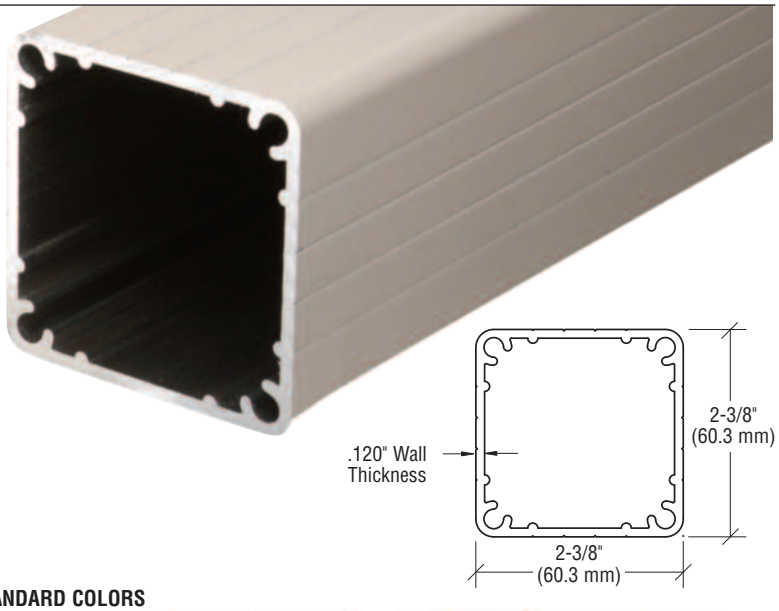
CRL Post Only for 100 Series Rails

- 2-3/8" (60.3 mm) Square Post
- Use for 180 Degree, 90 Degree or End Posts
- Three Standard Post Heights
- Seven Attractive Colors, Plus Unfinished Chromate Available From Stock
- Custom Powder Coat Colors Also Available
- 6005 Alloy Aluminum/T5 Temper Posts

CRL 100 Series Aluminum Posts are available in your choice of three heights and seven attractive colors, plus unfinished chromate. You can also cut custom posts from our 20'-1" (6.12 m) stock length. Custom heights and colors are also available.

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 when ordering.
Must ship common carrier.



STANDARD COLORS

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 Surface Mount Post Kits for 100 Series Rails

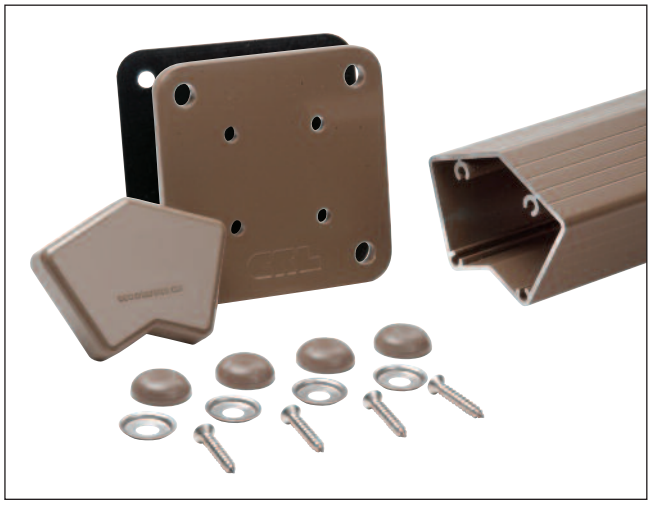
- Three Standard Post Heights
- Complete With Post Cap, Base Plate, Moisture Barrier Gasket, Screws, Stainless Washers, and Bolt Cover Buttons
- Designed to be Installed Onto Concrete, Wood, Steel, and Other Substrates
- Seven Attractive Colors, Plus Unfinished Chromate Available From Stock
- Custom Powder Coat Colors Also Available
- 6005 Alloy Aluminum/T5 Temper Posts

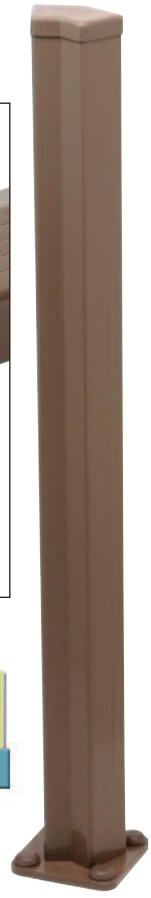
CRL 135 Degree Post Kits come complete with Base Plate (BP5), Moisture Barrier Gasket (BPG1BL), Base Plate Screws (BPS112), Stainless Steel Washers (WSHR1), Color Match Bolt Cover Buttons (BTN1), and Post Cap (PC45). See page B381 for Lag Bolts or Anchors for mounting to the substrate Standard Post Kits are available in your choice of three heights and seven attractive colors, plus unfinished chromate. Custom heights and colors also available.

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 Kits Include:





STANDARD COLORS

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.

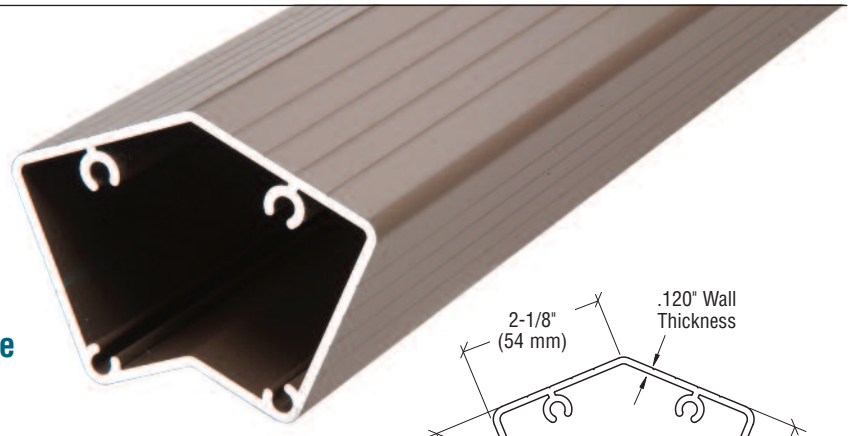
CRL 135 Degree Posts Only for 100 Series Rails

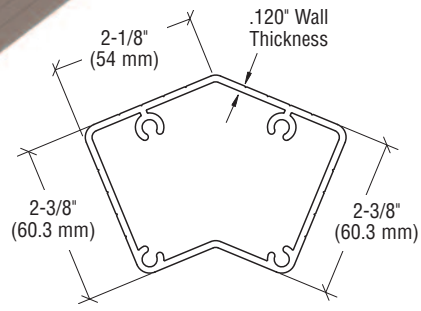
- Three Standard Posts Heights Plus a Stock Length You Can Cut to the Needed Size
- Seven Attractive Colors, Plus Unfinished Chromate Available From Stock
- Custom Powder Coat Colors Also Available
- 6005 Alloy Aluminum/T5 Temper Posts

CRL 135 Degree Aluminum Posts are available in your choice of three heights and seven attractive colors, plus unfinished chromate. 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.

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

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 Post Kits for 100 Series Rails

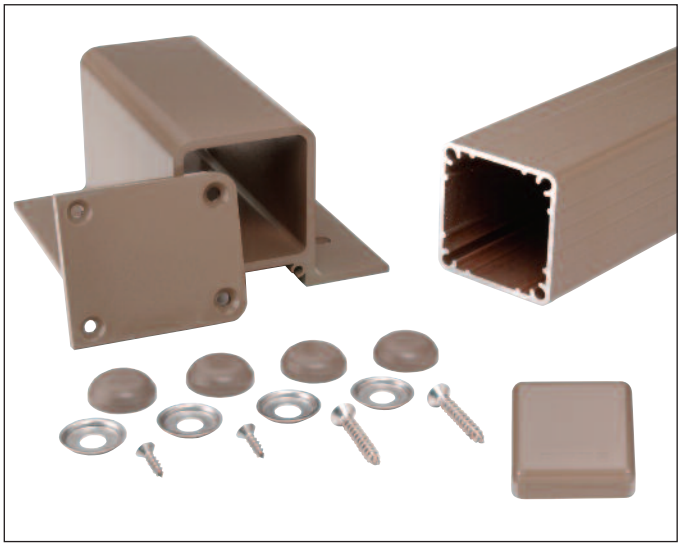
- 2-3/8" (60.3 mm) Square Post
- Use for Center and End Posts
- Designed to be Mounted to Almost Any Substrate
- Three Standard Post Heights
- Seven Attractive Colors, Plus Unfinished Chromate Available From Stock
- Custom Powder Coat Colors Also Available
- 6005 Alloy Aluminum/T5 Temper Posts

CRL 100 Series Fascia Post Kits come complete with a Post that has an additional 11" (279.4 mm) in length, Fascia Bracket (FB1), Base Plate Screws (BPS112), Stainless Steel Washers (WSHR1), Bolt Cover Buttons (BTN1), and Post Cap (PC1). See page B381 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 unfinished chromate. Custom heights and colors are also available.

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.

Standard Kits Include:



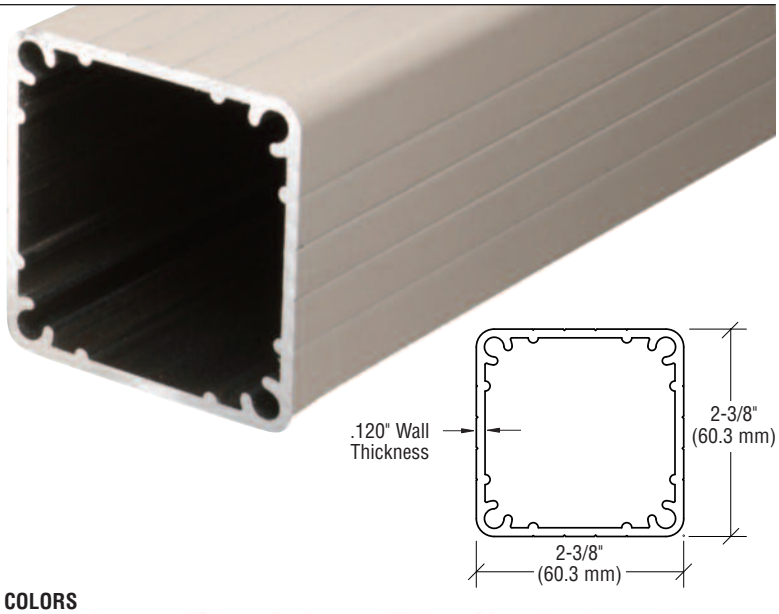
STANDARD COLORS

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 Posts Only for 100 Series Rails

- 2-3/8" (60.3 mm) Square Post
- Three Standard Post Heights
- Seven Attractive Colors, Plus Unfinished Chromate Available From Stock
- Custom Powder Coat Colors Also Available
- 6005 Alloy Aluminum/T5 Temper Posts



CRL 100 Series Aluminum Fascia Posts have an additional 11" (279.4 mm) in length to accommodate fascia mount installations. They are available in your choice of three heights and seven attractive colors, plus unfinished chromate. Custom heights and colors are also available.

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.

STANDARD COLORS

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 90 Degree Fascia Mount Post Kits for 100 Series Rails

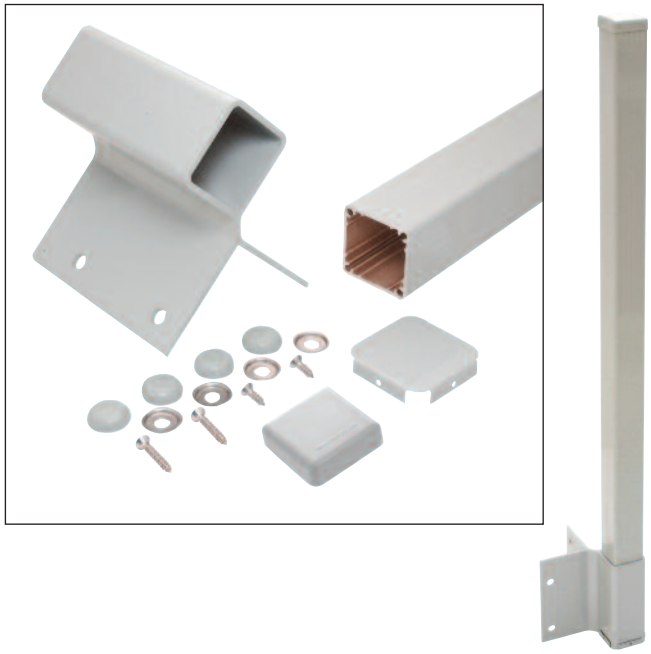
- 2-3/8" (60.3 mm) Square Post
- Used for 90 Degree Outside Corner Conditions
- Designed to Be Mounted to Almost Any Substrate
- Three Standard Post Heights
- Seven Attractive Colors, Plus Unfinished Chromate Available From Stock
- Custom Powder Coat Colors Also Available
- 6005 Alloy Aluminum/T5 Temper

CRL 100 Series 90 Degree Fascia Mount Post Kits come complete with a Post that has an additional 11" (279.4 mm) in length, Fascia Bracket (FB9), Bottom Fascia Plate Base Plate Screws (BPS112), Stainless Steel Washers (WSHR1), Bolt Cover Buttons (BTN1), and Post Cap (PC1). See page B381 for Lag Bolts or Anchors for mounting to the substrate. Fascia Posts Kits are available in your choice of three heights and seven attractive colors, plus unfinished chromate. Custom heights and colors are also available.

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 Kits Include:



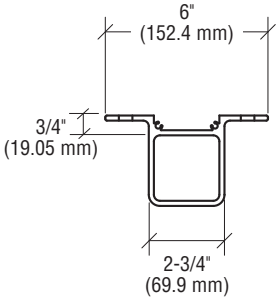
CRL Fascia Mount Brackets

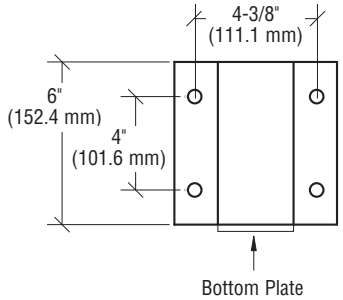
- Seven Standard Colors, Plus Unfinished Chromate Available to Match All CRL Aluminum Railings Using Our 2-3/8" (60.3 mm) Square Aluminum Posts

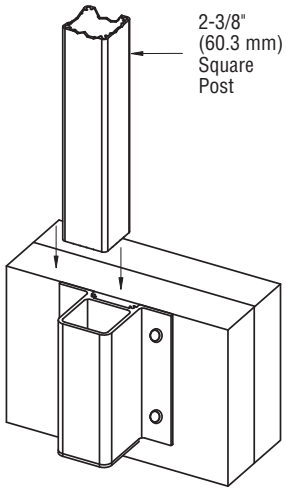
Use the CRL Fascia Mount Bracket to attach Vertical Posts to the face of any deck. Includes Fascia Bracket (FB9), Bottom Fascia Plate, Base Plate Screws (BPS112), Stainless Steel Washers (WSHR1), and Bolt Cover Buttons (BTN1). See page B381 for Lag Bolts or Anchors for mounting to the substrate. Not for use with our 4 x 4 Vertical Posts.

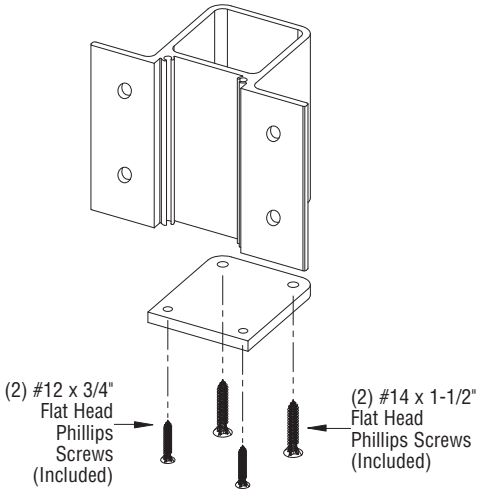
CAT. NO.	COLOR
FB1W	Sky White
FB10W	Oyster White
FB1AGY	Agate Gray
FB1BGY	Beige Gray
FB1BL	Matte Black
FB1BRZ	Matte Bronze
FB1S	Silver Metallic
FB1CRM	Chromate

Minimum order: 1 each.









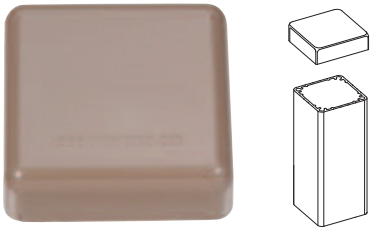
CRL Post Caps for 100 Series Rails

- Cover Exposed Edges of 100 Series Vertical Posts
- Seven Attractive Colors, Plus Unfinished Chromate Available From Stock
- Custom Powder Coat Colors Also Available

STANDARD COLORS

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 B398).

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	Chromate

Minimum order: 1 each.

CRL Low Profile Post Caps for 100 Series Rails

- Low Profile Pyramid Design
- Seven Attractive Colors, Plus Unfinished Chromate Available From Stock
- Custom Powder Coat Colors Also Available

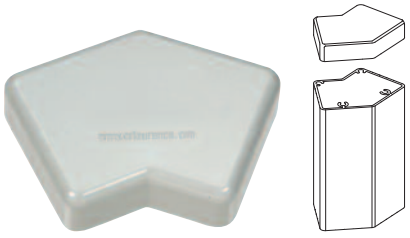
CRL 100 Series Aluminum Low Profile Post Caps are designed to fit our standard 100 Series 2-3/8" (60.3 mm) square Posts. They protect the exposed top edge from weather and debris, and enhance the appearance of the Post. Easily installs with CRL 95C Silicone (see page B398).

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	Chromate

Minimum order: 1 each.

CRL 135 Degree Post Caps for 100 Series Rails

- Seven Attractive Colors, Plus Unfinished Chromate 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 B398).

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	Chromate

Minimum order: 1 each.

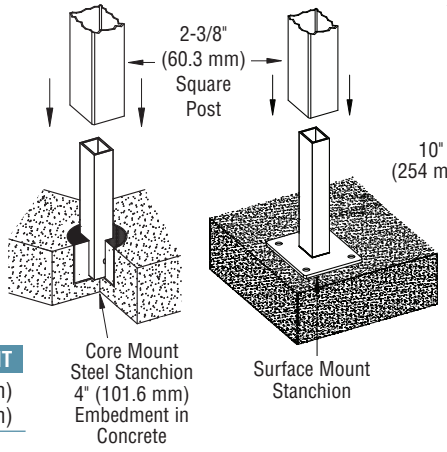
CRL ARS Stanchions

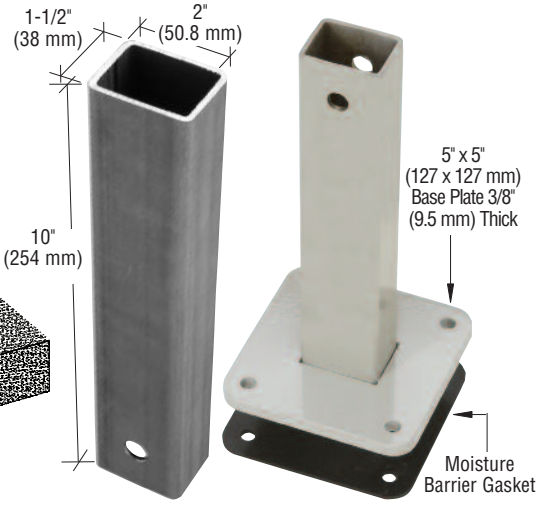
- Designed for All Series of CRL Aluminum Railings Using Our 2-3/8" (60.3 mm) Square Aluminum Posts
- Stainless Steel

Use these 1-1/2" x 2" (38.1 x 50.8 mm) Stainless Steel Stanchions to core or surface mount your Aluminum Railing System. Wet set Core Stanchions in 8000 psi or greater cement (see page B398 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.

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.

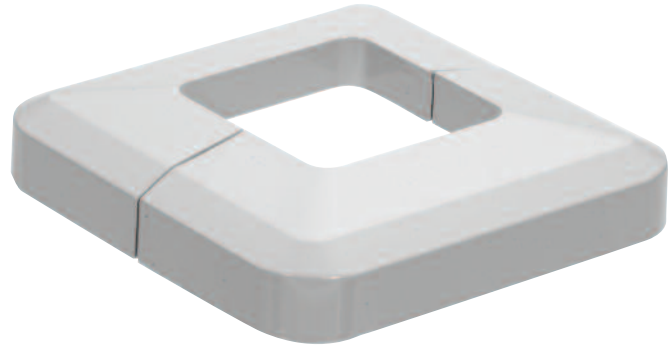




CAT. NO. PST5 CAT. NO. PST5BP

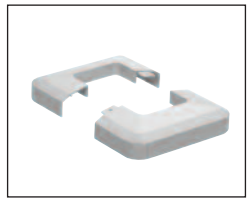
CRL Aluminum Base Plate Cover

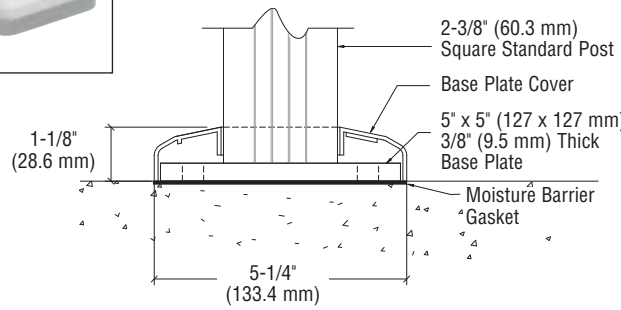
- **Designed for Use With Our Standard 2-3/8" (60.3 mm) Square Aluminum Posts and 5" (127 mm) Square Base Plates**
- **For Surface or Core Mounted Installations**
- **Seven Attractive Colors, Plus Unfinished Chromate Available From Stock**
- **Custom Powder Coat Colors Also Available**



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 B398), and offered in seven standard colors, plus unfinished chromate with the ability to custom powder coat.

NOTE: Base Plate Covers are designed for use only with Standard 5" (127 mm) Square Base Plates, not 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	Chromate

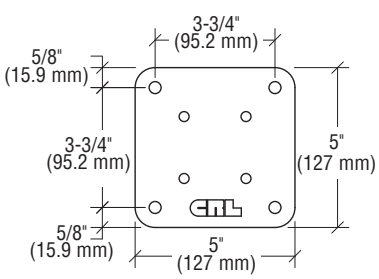
Minimum order: 1 each.

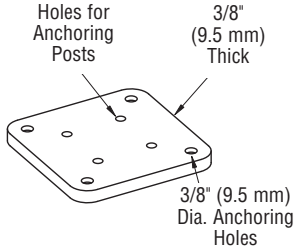
CRL Standard 5" Square Base Plates

- **Seven Standard Colors, Plus Unfinished Chromate Available for 2-3/8" (60.3 mm) Square Aluminum Posts**
- **6005 Alloy Aluminum/T5 Temper**

CRL Standard 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 B381). 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 Moisture Barrier Gasket Cat. No. BPG1BL is included with each Plate.

BP5 Square Base Plate

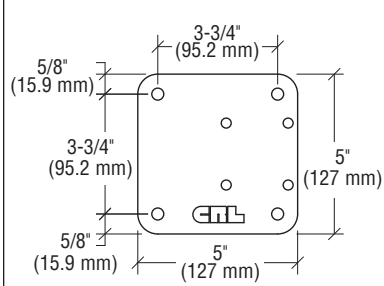


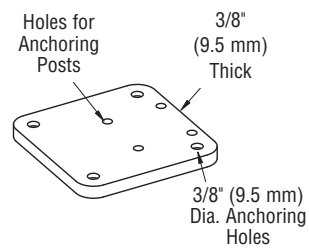


CAT. NO.	COLOR
BP5W	Sky White
BP50W	Oyster White
BP5AGY	Agate Gray
BP5BGY	Beige Gray
BP5BL	Matte Black
BP5BRZ	Matte Bronze
BP5S	Silver Metallic
BP5CRM	Chromate

Minimum order: 1 each. See page B352 for color chart.

BP05 Offset Base Plate





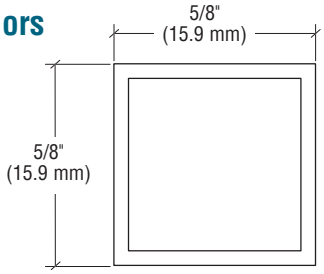
CAT. NO.	COLOR
BP05W	Sky White
BP050W	Oyster White
BP05AGY	Agate Gray
BP05BGY	Beige Gray
BP05BL	Matte Black
BP05BRZ	Matte Bronze
BP05S	Silver Metallic
BP05CRM	Chromate

Minimum order: 1 each. See page B352 for color chart.

CRL Pickets for 100 Series Rails

- Four Standard Picket Lengths
- 5/8" (15.9 mm) Square Profile
- Seven Attractive Colors, Plus Unfinished Chromate Available From Stock
- Custom Powder Coat Colors Also Available

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.



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 when ordering.
Must ship common carrier.

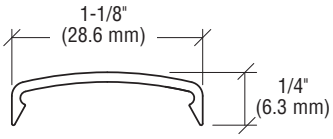
STANDARD COLORS

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

- Seven Attractive Colors, Plus Unfinished Chromate Available From Stock
- Custom Powder Coat Colors Also Available
- Snap On Installation
- 6005 Alloy Aluminum/T5 Temper



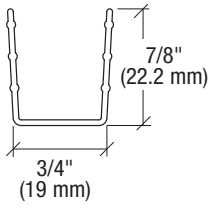
Use CRL 100 Series Aluminum Picket Spacers with our 100 Series Picket Railing. Designed to accommodate 5/8" (15.9 mm) Square Pickets. Easy to install, simply snap on the 3-7/8" (98.4 mm) long pre-cut spacer or cut to desired length, then push in for a snap tight fit.

CAT. NO.*	LENGTH
1PS	3-7/8" (98.4 mm)
1PS241	241" (6.12 m)#

Minimum order: 1 each. * Specify powder coat color when ordering.
Must ship common carrier.

CRL Picket Vinyl for 100 Series Rails

- Clear Vinyl That is Concealed in Top or Bottom Rails
- Design to Eliminate Noise That Other Railing Systems Produce



Use CRL 100 Series Clear Picket Vinyl when installing the 100 Series Picket Railing. Designed to accommodate 5/8" (15.9 mm) Pickets. Easy to install, simply cut to desired length, then push in for a snap tight fit.

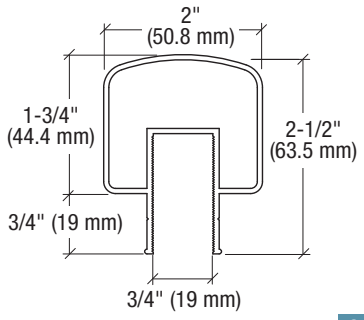
CAT. NO.	COLOR	STOCK LENGTH
1PV120	Clear	10' (3.05 m)#

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.

CRL ARS ALUMINUM RAILING SYSTEMS

CRL Top Rail for 100 Series Rails

- Designed to Accommodate 5/8" (15.9 mm) Pickets or 1/4" to 1/2" (6 to 12 mm)* Tempered Glass
- 100 Series Rails Meets Stairway Code Requirements
- Seven Attractive Colors, Plus Unfinished Chromate Available From Stock
- Custom Powder Coat Colors Also Available



* 1/2" (12 mm) Glass only if wet glazed.

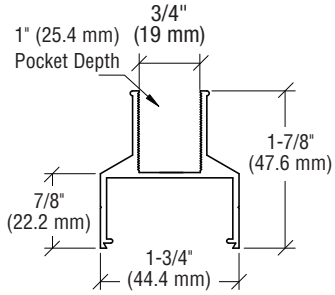
Our 100 Series Aluminum Top Rails are sold in 20'-1" (6.12 m) stock lengths. Powder coated rails come in your choice of seven standard CRL colors, plus unfinished chromate. Custom colors are also available. See page B356 for Rail Connecting Blocks.

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	Chromate

Minimum order: 1 each. See page B354 for color chart. Must ship common carrier.

CRL Bottom Rail for 100 Series Rails

- Designed to Accommodate 1/4" to 1/2" (6 to 12 mm)* Glazing or 5/8" (15.9 mm) Square Pickets
- Sleek Tapered Design
- Seven Attractive Colors, Plus Unfinished Chromate Available From Stock
- Custom Powder Coat Colors Also Available



* 1/2" (12 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 B356 for Rail Connecting Blocks.

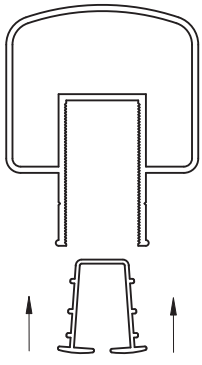
CAT. NO.	COLOR
1BR241W	Sky White
1BR2410W	Oyster White
1BR241AGY	Agate Gray
1BR241BGY	Beige Gray
1BR241BL	Matte Black
1BR241BRZ	Matte Bronze
1BR241S	Silver Metallic
1BR241CRM	Chromate

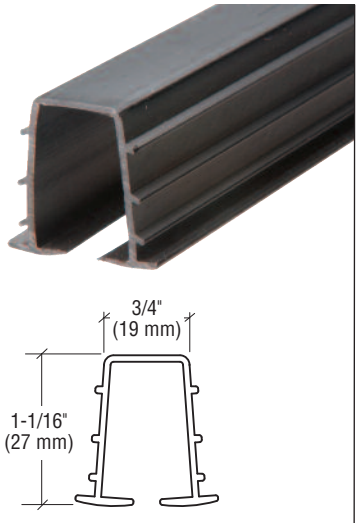
Minimum order: 1 each. See page B354 for color chart. Must ship common carrier.

CRL Glazing Vinyl for 100 Series Rails

- Rigid Glazing Vinyl is Designed to Snap in Before the Glass is Installed
- Two Sizes for Use With 1/4" or 3/8" (6 or 10 mm) Thick Tempered Glass

100 Series Top Rigid Vinyl



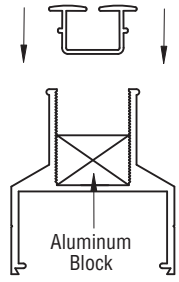


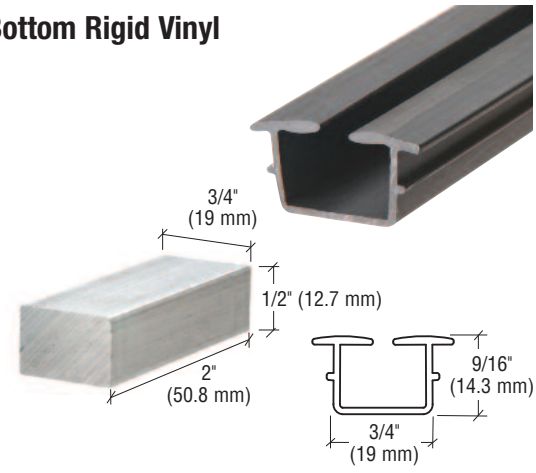
CRL 100 Series Top Rigid Vinyl is available in two sizes to hold 1/4" (6 mm) or 3/8" (10 mm) glass. When installing Rigid Vinyl, snap it into place before installing the glass. Stock lengths of vinyl are 12' (3.66 m).

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



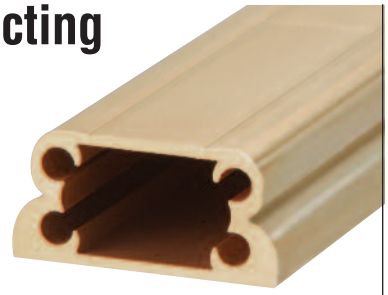


CRL 100 Series Bottom Rigid Vinyl comes in two sizes to hold 1/4" (6 mm) or 3/8" (10 mm) glass. When installing Rigid Vinyl, insert Aluminum Blocks evenly spaced into channel, then snap vinyl into place before you install the glass. Stock lengths of vinyl are 12' (3.66 m).

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 ▲

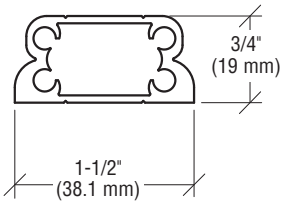
Minimum order: 1 each. A Packing Charge will be added to orders of fewer than five combined lengths. # Stock lengths longer than 108" (2.74 m) must ship common carrier unless you specify that we cut them for U.P.S. A Cutting Charge will apply. ▲ Minimum order is 10 each.

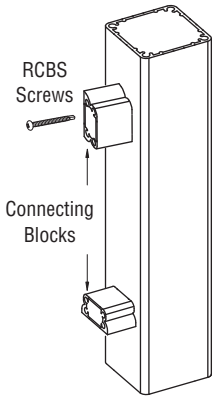
CRL Rail Connecting Blocks for 100 Series Rails



- Designed for Installing 100 Series Top and Bottom Rails to Post

See below for screws.



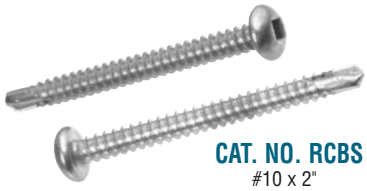


Use CRL Rail Connecting Blocks to connect Top and Bottom Rails to vertical posts. Screw Blocks into index grooves on post using Cat. No. RCBS Rail Connecting Block Screws. Miter cut 12" or 241" lengths when building angles for stairs and slopes. All Connecting Blocks are extruded aluminum with a weather resistant chromate finish.

CAT. NO.	SIZE
RCB1	1" (25.4 mm)
RCB112	12" (305 mm)
RCB1241	241" (6.12 m) #

Minimum order: 1 each. * Specify powder coat color when ordering. # 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

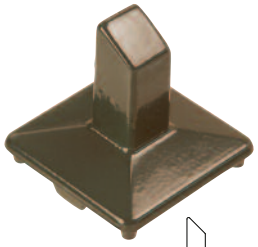
Use CRL Self Drilling Screws when installing our 100, 200, 300, 350, and 400 Series Railings. Screws are stainless steel, and have special crosscuts which allow them to drill into aluminum. Screws require Cat. No. 9502 1/8" (3 mm) size Square Insert Bit to install.

CAT. NO. 9502
Square
Insert Bit

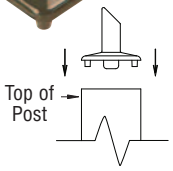
CAT. NO.	DESCRIPTION	SIZE
RCBS▲	Rail Connecting Block Screw	#10 x 2" (50.8 mm)
TEK1 ▲	Rail Fastening Screw	#8 x 3/4" (19 mm)
9502 #	Square Insert Bit for Screws	1/8" (3 mm)

▲ 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 Unfinished Chromate
- Custom Powder Coat Colors Also Available



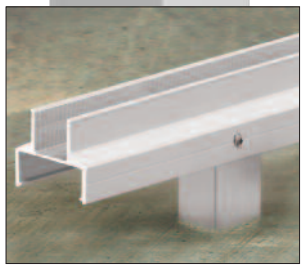
The CRL Aluminum Intermediate Post Fitting was designed to fit under the 100 Series Top Rail. This Post Fitting allows the 100 Series Top Rail to flow uninterrupted from top to bottom of stairs. It is pressure fitted into top of post and secured with our 95C Silicone (see page B398). For attaching the Top Rail to the Intermediate Post Fitting use CRL Cat. No. TEK1 Screws.

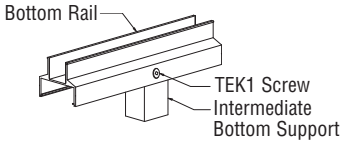
CAT. NO.	COLOR
1PFW	Sky White
1PF0W	Oyster White
1PFAGY	Agate Gray
1PFBGY	Beige Gray
1PFBL	Matte Black
1PFBRZ	Matte Bronze
1PFS	Silver Metallic
1PFCRM	Chromate

Minimum order: 1 each. See page B354 for color chart.

CRL Intermediate Bottom Support

- For Use With All Series of Our Aluminum Railings
- Seven Attractive Colors, Plus Unfinished Chromate Available From Stock
- Custom Powder Coat Colors Also Available





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	Chromate

Minimum order: 1 each. See page B354 for color chart.

CRL ARS ALUMINUM RAILING SYSTEMS

ARS 200 Series Aluminum Railing System With Glass and Pickets

ARS 200 Series Aluminum Railing System With Surface Mount Posts and Glass

ARS 200 Series Aluminum Railing System With Surface Mount Posts and Glass

ARS 100 Series Aluminum Railing System With Surface Mount Posts and Glass

ARS 200 Series Aluminum Railing System With Fascia Mount Posts and Pickets

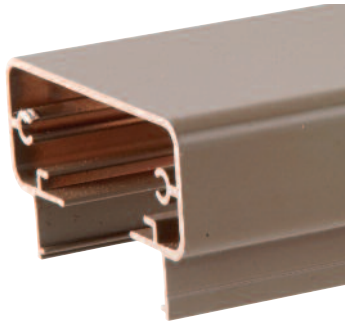
CRL ARS ALUMINUM RAILING SYSTEMS

CRL 200, 300, 350, and 400 Series Railing Systems

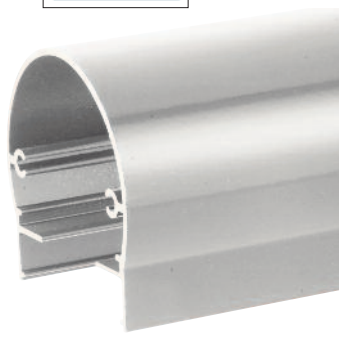
Use Only TEMPERED GLASS

- Four Different Top Rail Profiles
- Interchangeable Component Parts
- Surface or Fascia Mount Post Systems
- Eight Standard Colors Available From Stock, With Custom Colors Also Available
- Most Application Possibilities
- Available With Custom Gates
- A.D.A. Compliant Guard Rails

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 tempered glass, 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.

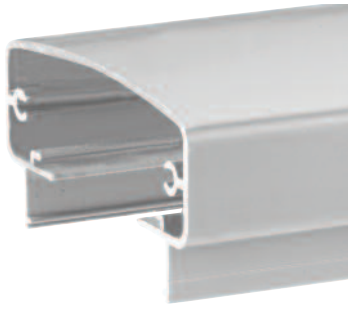


200 Series

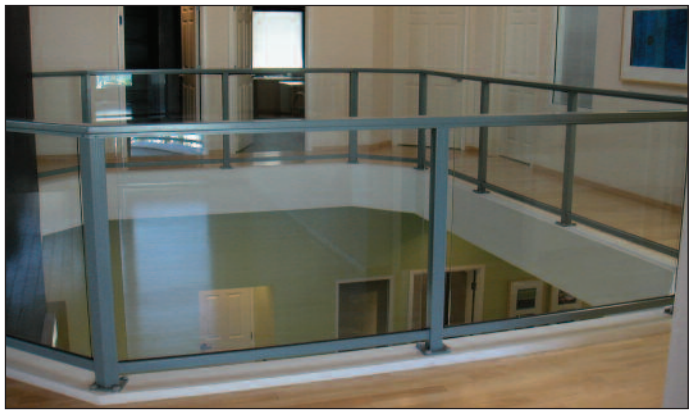


300 Series

350 Series



400 Series



ARS 200 Series Aluminum Railing System With Custom Textured Glass

ARS 300 Series Aluminum Railing System With Pickets

ARS 350 Series Aluminum Railing System With Glass

ARS 400 Series Aluminum Railing System With Glass

CRL 200 Series Railing System

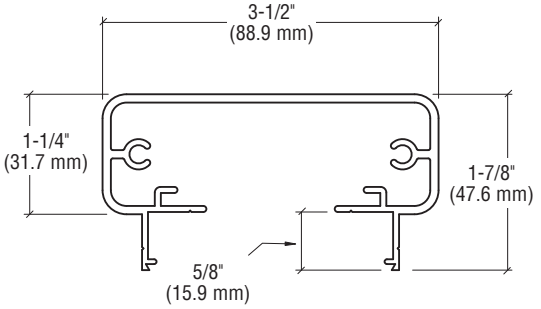
Our 200 Series Railing System uses a continuous flat top rail, which helps achieve a modern look. While most companies in the industry offer very typical top rails, the 200 Series maintains an extremely low profile while outperforming competitive systems for strength and durability. At 1-7/8" (47.6 mm) it has the lowest profile of all the top rails.

This system can be used with glass, cable, picket, cast, or custom water jet/laser cut infills. The pickets in this system come in the form of a Picket Panel (see page B384), which costs a little more than the traditional single snap-in picket system, but will save you time and labor during installation.

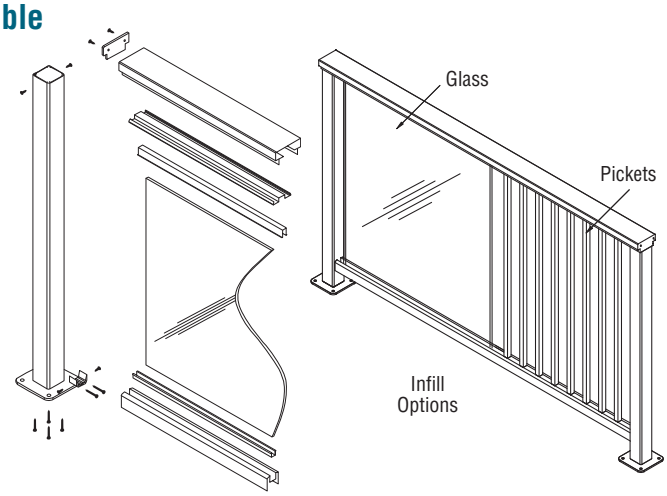
NOTE: As good as the 200 Series is, you cannot use it for a stair application where railing is required. The top cap is too wide in cross section to achieve the status of a hand rail. This being the case, you must use our 100 Series (see pages B346 to B356) for the stair portion of the job.

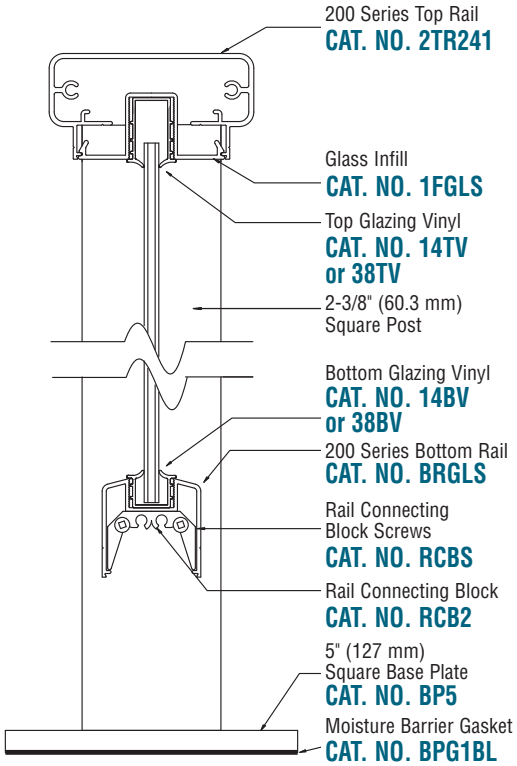
- **6005-T5 Aluminum Alloy**
- **Standard Rail Heights are 36", 42", and 48" (914, 1066 and 1219 mm). Custom Rail Heights Also Available**
- **2-3/8" (60.3 mm) Square Aluminum Post**
- **Infill Panel Options: 1/4" or 3/8" (6 or 10 mm) Glass, 3/4" (19 mm) Square or Round Profile Aluminum Picket Panels, Stainless Steel Cable, or Decorative Cast Panels**
- **Custom Water Jet/Laser Cut Infills Also Available**
- **Also 1/2" (12 mm) Glass When Used With Wet Glaze Method**
- **Eight Standard Colors Available From Stock, With Custom Colors Also Available**
- **Deck (Top) Mount or Fascia Mount Applications Available**
- **Core Mount Applications Also Available**
- **Can Be Fabricated With Custom Gates**
- **Exterior and Interior Applications**
- **A.D.A. Compliant Guard Rails**
- **60" (1524 mm) Recommended Post Spacing**

200 Series Top Rail



Use Only TEMPERED GLASS





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An ISO9001:2008 Certified Company

CRL 300 Series Railing System

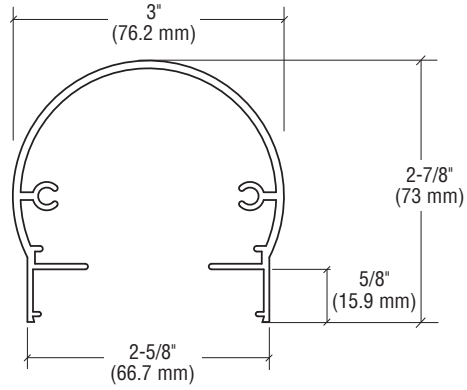
The 300 Series offers the largest profile of all our top rails. At 2-7/8" (73 mm) high the 300 Series offers a stylish and continuous large round top rail, while maintaining the strength and durability of all of our Aluminum Railing Systems.

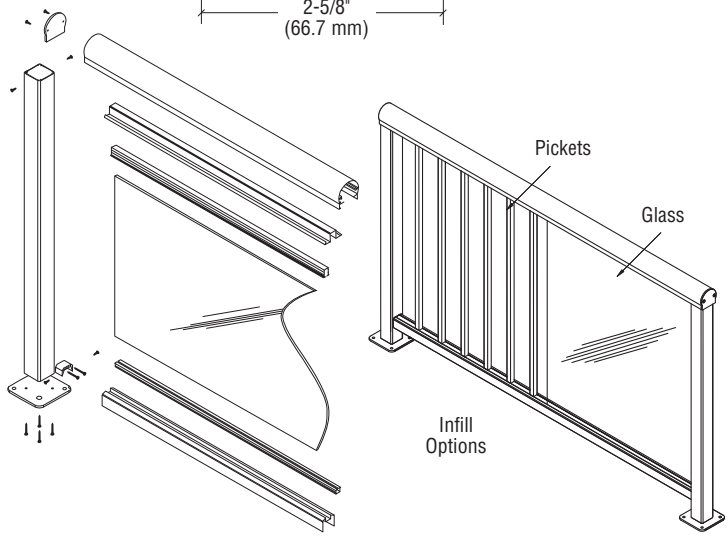
This system can be used with glass, cable, picket, cast, or custom water jet/laser cut infills. The pickets in this system come in the form of a Picket Panel (see page B384), which cost a little more than the traditional single snap-in picket system, but will save you time and labor during installation.

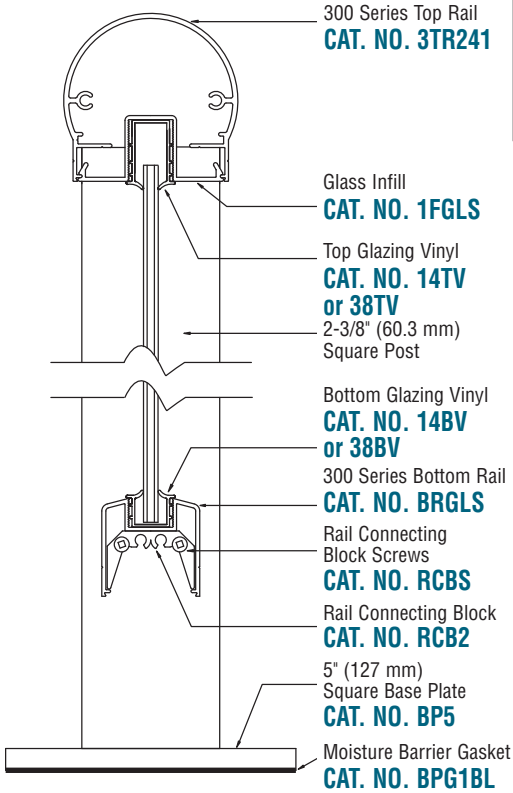
NOTE: You cannot use the 300 Series for a stair application where railing is required. The top cap is too wide in cross section to achieve the status as a hand rail. You must use our 100 Series (see pages B346 to B356) for the stair portion of the job.

- 6005-T5 Aluminum Alloy
- Standard Rail Heights are 36", 42", and 48" (914, 1066 and 1219 mm). Custom Rail Heights Also Available
- 2-3/8" (60.3 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) 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 Available From Stock, With Custom Colors Also Available
- Can Be Fabricated With Custom Gates
- A.D.A. Compliant Guard Rails
- 60" (1524 mm) Recommended Post Spacing

300 Series Top Rail







Use Only TEMPERED GLASS

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CRL 350 Series Railing System

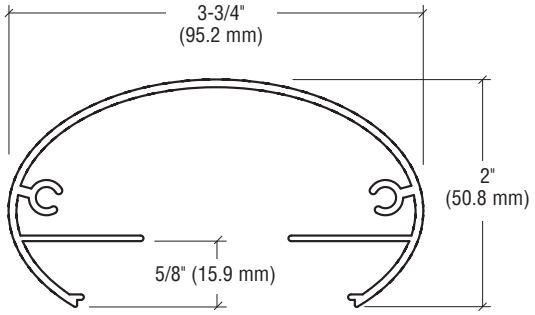
The 350 Series features a continuous oval top rail that gives a clean, modern look that shows off its luxurious and unique shape, while maintaining the strength and durability of all of our Aluminum Railing Systems.

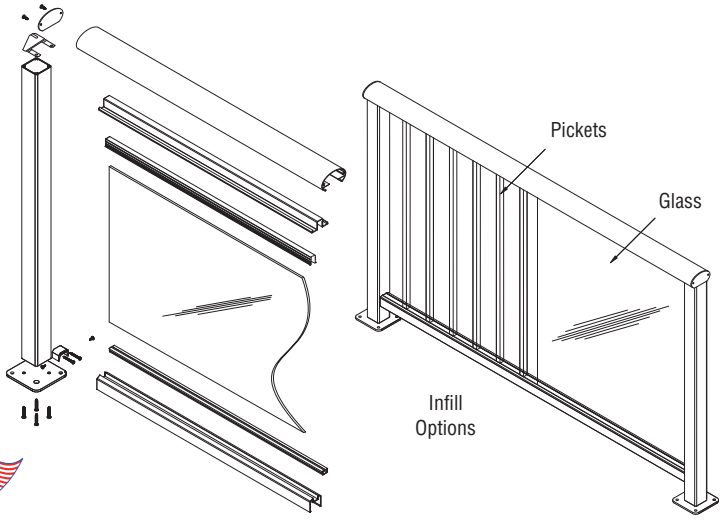
This system can be used with glass, cable, picket, cast, or custom water jet/laser cut infills. The pickets in this system come in the form of a Picket Panel (see page B384, which cost a little more than the traditional single snap-in picket system, but will save you time and labor during installation.

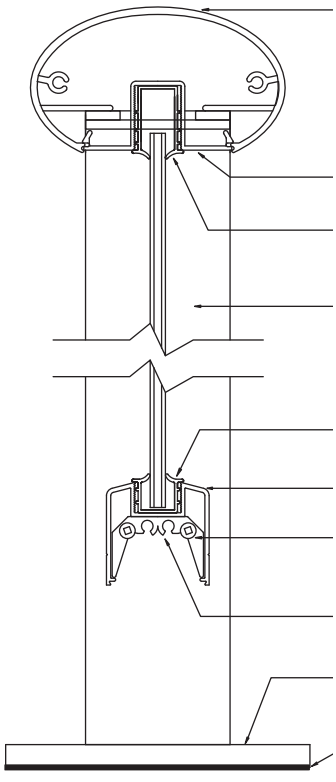
NOTE: You cannot use the 350 Series for a stair application where railing is required. The top cap is too wide in cross section to achieve the status as a hand rail. You must use our 100 Series (see pages B346 to B356) for the stair portion of the job.

- 6005-T5 Aluminum Alloy
- Standard Rail Heights are 36", 42", and 48" (914, 1066 and 1219 mm). Custom Rail Heights Also Available
- 2-3/8" (60.3 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) 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 Available From Stock, With Custom Colors Also Available
- Can Be Fabricated With Custom Gates
- A.D.A. Compliant Guard Rails
- 60" (1524 mm) Recommended Post Spacing

350 Series Top Rail







350 Series Top Rail
CAT. NO. 35TR241

Use Only TEMPERED GLASS

Glass Infill
CAT. NO. 1FGLS

Top Glazing Vinyl
CAT. NO. 14TV or 38TV

2-3/8" (60.3 mm) Square Post

Bottom Glazing Vinyl
CAT. NO. 14BV or 38BV

350 Series Bottom Rail
CAT. NO. BRGLS

Rail Connecting Block Screws
CAT. NO. RCBS

Rail Connecting Block
CAT. NO. RCB2

5" (127 mm) Square Base Plate
CAT. NO. BP5

Moisture Barrier Gasket
CAT. NO. BPG1BL

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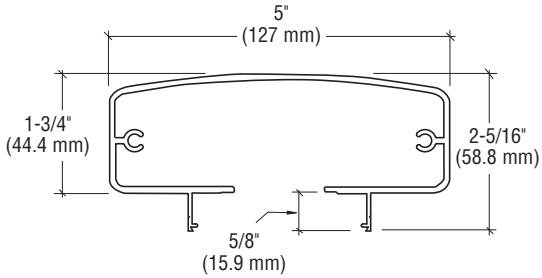
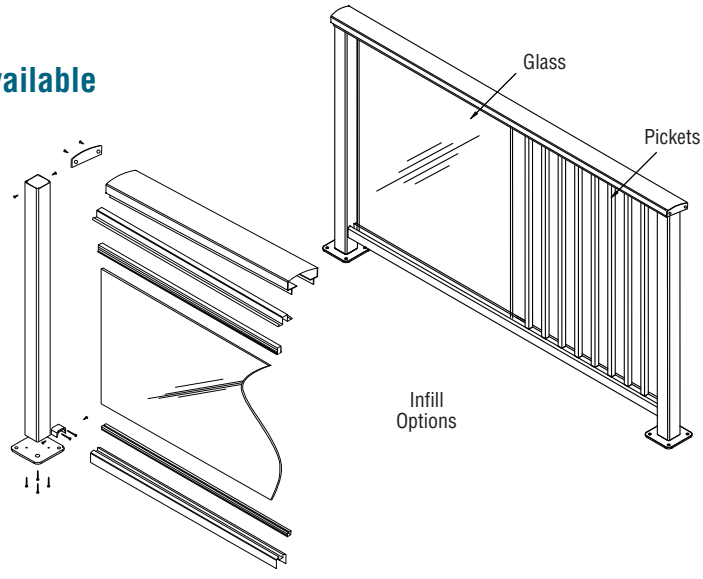
CRL 400 Series Railing System

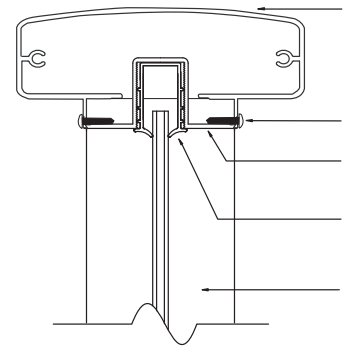
The CRL 400 Series Railing System has the widest profile of all of our Top Rails. At 5" (127 mm) wide the 400 Series offers a heavy-duty modern look while still outperforming competitive systems for strength and durability. This system can be used with glass, stainless steel cable, picket, cast, or custom water jet/laser cut infills. The pickets in this system come in the form of a Picket Panel (see page B384) which costs a little more than the traditional single snap-in picket systems, but will save you time and labor during installation. **NOTE:** As good as the 400 Series is, you cannot use it for a stair application unless you use a grab rail at stairway areas that require it.

- 6005-T5 Aluminum Alloy
- Standard Rail Heights are 36", 42", and 48" (914, 1066 and 1219 mm). Custom Rail Heights Also Available
- 2-3/8" (60.3 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) Glass When Used With Wet Glazed Method
- Eight Standard Colors Available From Stock, With Custom Colors Also Available
- Deck (Top) Mount or Fascia Mount Applications Available
- Core Mount Applications Also Available
- Can Be Fabricated With Custom Gates
- Exterior and Interior Applications
- A.D.A. Compliant Guard Rails
- 60" (1524 mm) Recommended Post Spacing

400 Series Top Rail







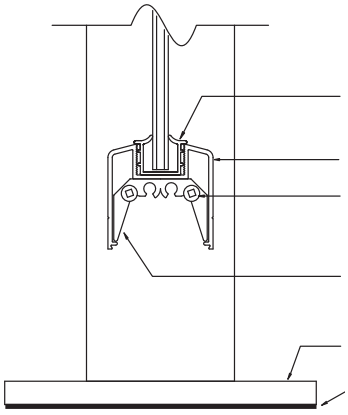
400 Series Top Rail
CAT. NO. 4TR241

Tek Screws
CAT. NO. TEK1

Glass Infill
CAT. NO. 1FGLS

Top Glazing Vinyl
CAT. NO. 14TV or 38TV

2-3/8" (60.3 mm) Square Post



Bottom Glazing Vinyl
CAT. NO. 14BV or 38BV

400 Series Bottom Rail
CAT. NO. BRGLS

Rail Connecting Block Screws
CAT. NO. RCBS

Rail Connecting Block
CAT. NO. RCB2

5" (127 mm) Square Base Plate
CAT. NO. BP5

Moisture Barrier Gasket
CAT. NO. BPG1BL

Use Only TEMPERED GLASS

MANUFACTURED IN THE USA BY C.R. LAURENCE
An ISO9001:2008 Certified Company

CRL 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 eight standard colors, or you can select from over 250 Quick Turn colors. Rails require Connecting Blocks to fasten to posts (see page B375).

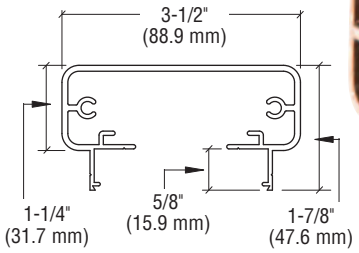
NOTE: Series 200, 300, 350, and 400 Rails do not meet stairway code requirements. For stairways you must use our 100 Series Rails (see pages B346 to B356).

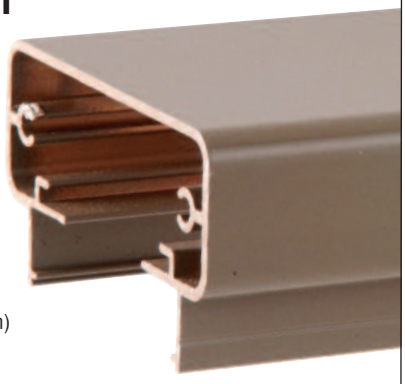
STANDARD COLORS

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





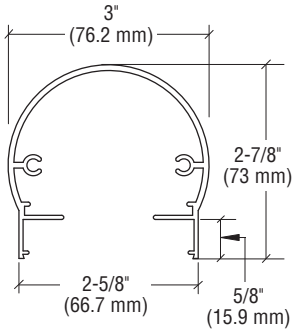
• Designed to Accommodate 3/4" (19 mm) Pickets or 1/4" to 1/2" (6 to 12 mm)* Tempered Glass

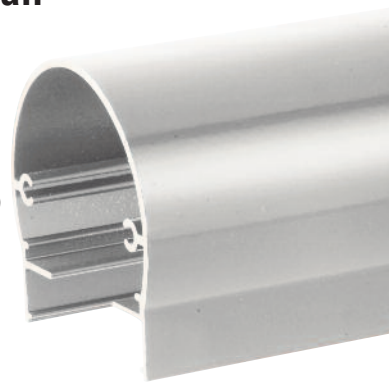
* 1/2" (12 mm) Glass only if wet glazed

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	Chromate

Minimum order: 1 each. Must ship common carrier.

300 Series Top Rail





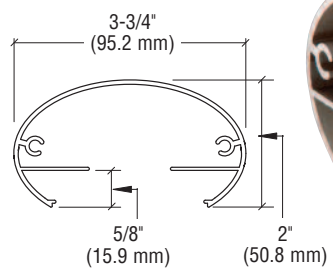
• For Use With 3/4" (19 mm) Pickets or 1/4" to 1/2" (6 to 12 mm)* Tempered Glass

* 1/2" (12 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	Chromate

Minimum order: 1 each. Must ship common carrier.

350 Series Top Rail



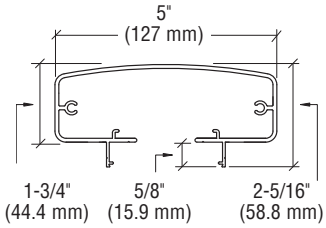
• Will Accept 3/4" (19 mm) Pickets or 1/4" to 1/2" (6 to 12 mm)* Tempered Glass

* 1/2" (12 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	Chromate

Minimum order: 1 each. Must ship common carrier.

400 Series Top Rail



• Can Be Used With 3/4" (19 mm) Pickets or 1/4" to 1/2" (6 to 12 mm)* Tempered Glass

* 1/2" (12 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	Chromate

Minimum order: 1 each. Must ship common carrier.

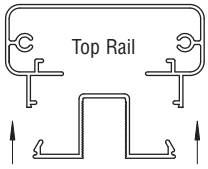
CRL Top Rail Infills for 200, 300, 350, and 400 Series Rails

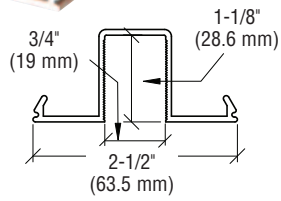
- **Easily Snap Into the Underside of the Top Rail**
- **Seven Attractive Colors, Plus Unfinished Chromate to Match Our Posts**

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 Only TEMPERED GLASS





- **Designed to Accommodate 1/4" to 1/2" (6 to 12 mm)* Tempered Glass**

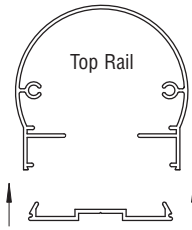
* 1/2" (12 mm) Glass only if wet glazed

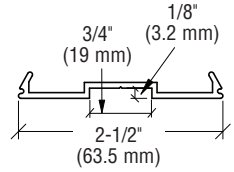
CAT. NO.	COLOR
1FGLSW	Sky White
1FGLS0W	Oyster White
1FGLSAGY	Agate Gray
1FGLSBGY	Beige Gray
1FGLSBRZ	Matte Bronze
1FGLSBL	Matte Black
1FGLSS	Silver Metallic
1FGLSCRM	Chromate

Minimum order: 1 each. See page B364 for color chart.
Must ship common carrier.

Top Rail Infill for Pickets

- **For Use With 3/4" (19 mm) Square or Round Pickets**





Also available pre-punched for pickets. Contact Railing Technical Sales for details. See page B304 for pickets.

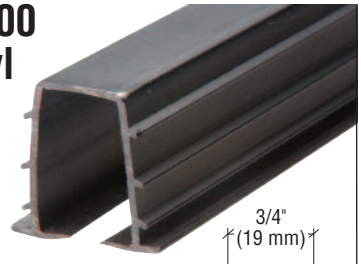
CAT. NO.	COLOR
1FPKTW	Sky White
1FPKT0W	Oyster White
1FPKTAGY	Agate Gray
1FPKTBGY	Beige Gray
1FPKTBRZ	Matte Bronze
1FPKTBL	Matte Black
1FPKTS	Silver Metallic
1FPKTCRM	Chromate

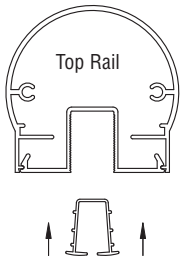
Minimum order: 1 each. See page B364 for color chart.
Must ship common carrier.

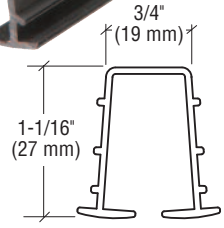
CRL Glazing Vinyl

- **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**

200, 300, 350, and 400 Series Top Rigid Vinyl





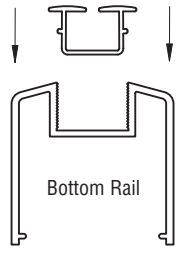


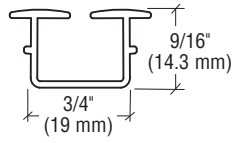
CRL 200, 300, 350, and 400 Series Top Rigid Vinyl is available in two sizes to hold 1/4" or 3/8" (6 or 10 mm) glass. When installing Rigid Vinyl, snap it into place before installing the glass. Stock lengths are 12' (3.66 m).

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





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.

CRL End Caps for 200 Series Rails

- Countersunk for End Cap Screws

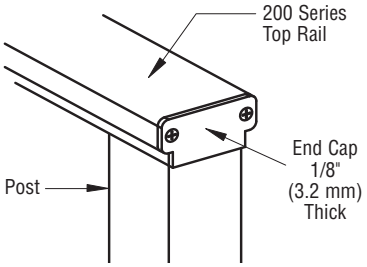
These CRL 200 Series End Caps are designed to screw into the raceways of the Top Rail. End Caps are contoured to match the shape of the 200 Series Top Rail, and are countersunk to allow two Cat. No. ECS1 End Cap Screws to fit flush. End Cap Screws sold separately (see page B367). Metal thickness is 1/8" (3.2 mm).

Decorative End Caps

- Matches Contours of Top Rail

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	Chromate

Minimum order: 1 each. See page B364 for color chart.

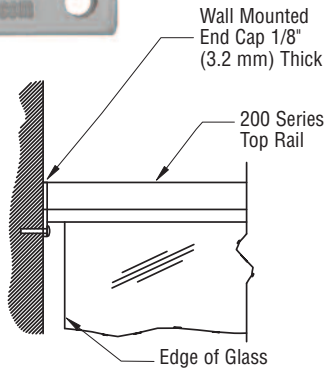


Wall Mount End Caps

- Designed for Wall Mounting the Top Rail

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	Chromate

Minimum order: 1 each. See page B364 for color chart.



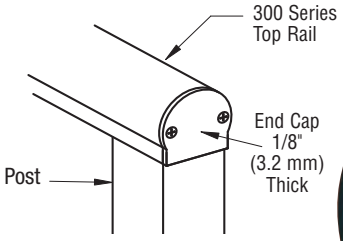
CRL End Caps for 300 Series Rails

- Countersunk for End Cap Screws

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 to fit flush. End Cap Screws sold separately (see page B367). Metal thickness is 1/8" (3.2 mm).

Decorative End Caps

- Matches Contours of Top Rail

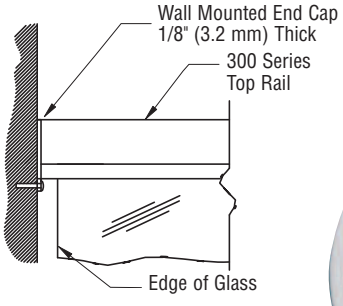


CAT. NO.	COLOR
3DECW	Sky White
3DEC0W	Oyster White
3DECAGY	Agate Gray
3DECBGY	Beige Gray
3DECBL	Matte Black
3DECBRZ	Matte Bronze
3DECS	Silver Metallic
3DECCRM	Chromate

Minimum order: 1 each. See page B364 for color chart.

Wall Mount End Caps

- Designed for Wall Mounting the Top Rail



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	Chromate

Minimum order: 1 each. See page B364 for color chart.

CRL End Caps for 350 Series Rails

- Countersunk for End Cap Screws

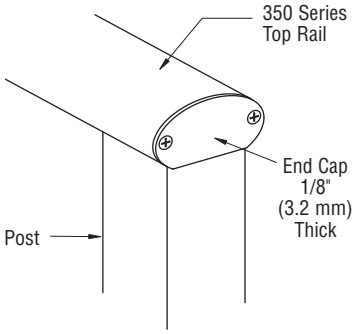
These CRL 350 Series End Caps are designed to screw into the raceways of the Top Rail. Shape of Cap matches contours of the 350 Series Top Rail. Countersunk to allow two Cat. No. ECS1 End Cap Screws to fit flush. End Cap Screws sold separately (see below). Metal thickness is 1/8" (3.2 mm).

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	Chromate

Minimum order: 1 each. See page B364 for color chart.

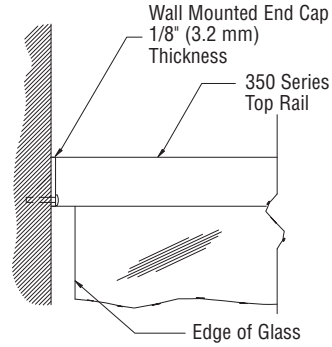


Wall Mount End Caps

- 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	Chromate

Minimum order: 1 each. See page B364 for color chart.



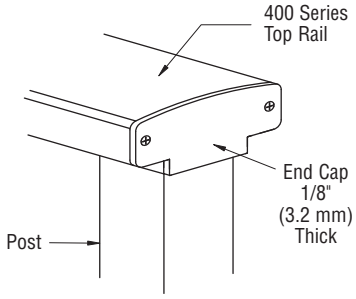
CRL Decorative End Caps for 400 Series Rails

- 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 to fit flush. End Cap Screws sold separately. Metal thickness is 1/8" (3.2 mm).

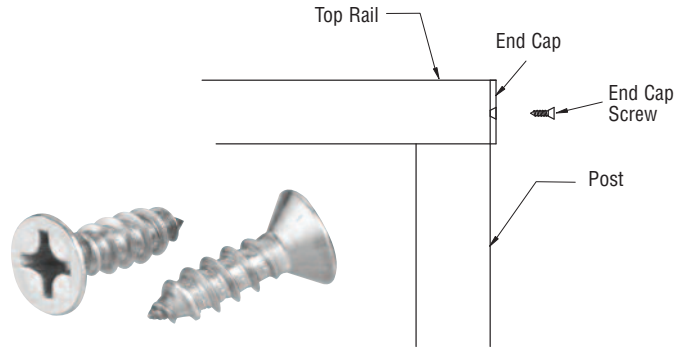
CAT. NO.*	COLOR
4DECW	Sky White
4DEC0W	Oyster White
4DECAGY	Agate Gray
4DECBGY	Beige Gray
4DECBL	Matte Black
4DECBRZ	Matte Bronze
4DECS	Silver Metallic
4DECCRM	Chromate

Minimum order: 1 each. *For wall mount applications use Cat. No. RCB4. See page B364 for color chart.



CRL End Cap Screws

- Specifically Designed to Screw Into the Raceways of Our Top Rails
- Stainless Steel



The CRL End Cap Screw is designed to screw into the interior raceways of our Top Rails. Flat Head #12 x 3/4" (19 mm) screw fits flush with CRL Decorative or Wall Mount End Caps. For use with all series of CRL Aluminum Railings.

CAT. NO.	DESCRIPTION	SIZE
ECS1	End Cap Screw	#12 x 3/4" (19 mm)

Minimum order: 50 each. Must be ordered in increments of 50.

CRL 200 Series 90 Degree Horizontal Corners

- Welded and Finished
- Matches Shape of Top Rail
- Seven Standard Powder Coated Finishes, Plus Unfinished Chromate
- Includes Aluminum Connector Splice Plates
- 6005 Alloy Aluminum/T5 Temper
- 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 B375).

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	Chromate

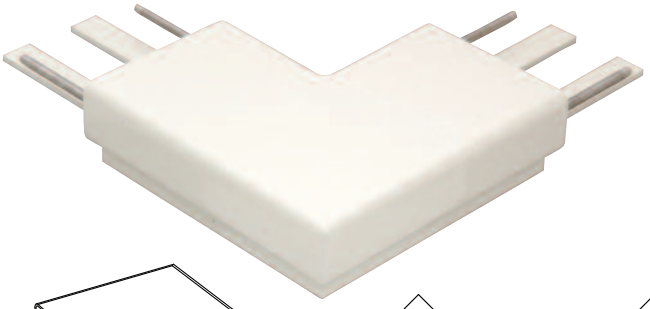
Minimum order: 1 each. All Railing Corners can be combined for quantity pricing.

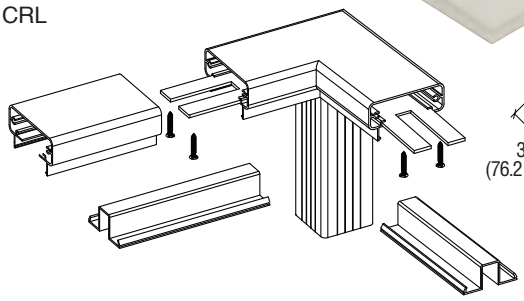
STANDARD COLORS

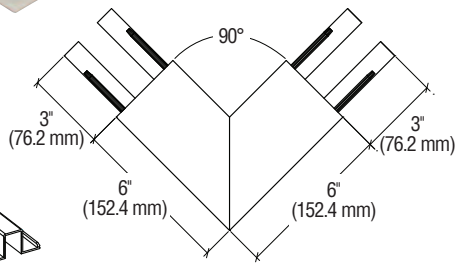
Colors shown are representative only, and may vary slightly from actual gloss, color, and texture. If color match is critical, please contact Technical Sales for additional information.

Additional Color Options - CRL has over 250 quick turn custom color options with the ability to color match as well.

- Ready to Install







CRL 300 Series 90 Degree Horizontal Corners

- Welded and Finished
- Matches Shape of Top Rail
- Seven Standard Powder Coated Finishes, Plus Unfinished Chromate
- Includes Aluminum Connector Splice Plates
- 6005 Alloy Aluminum/T5 Temper
- 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 B375).

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	Chromate

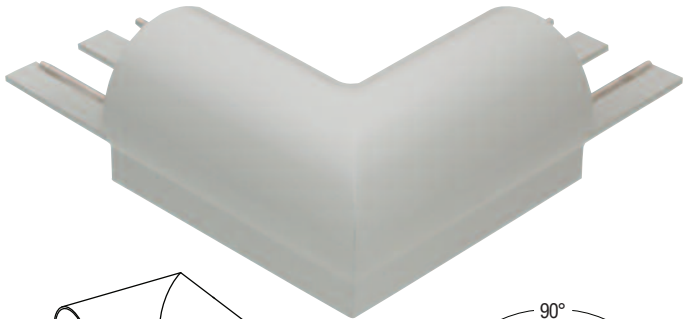
Minimum order: 1 each. All Railing Corners can be combined for quantity pricing.

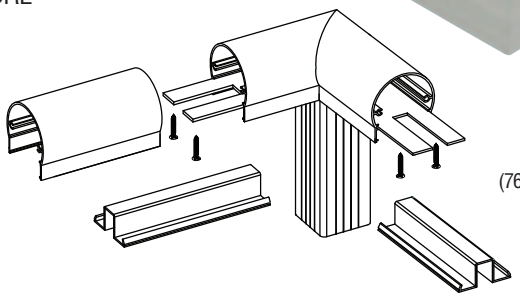
STANDARD COLORS

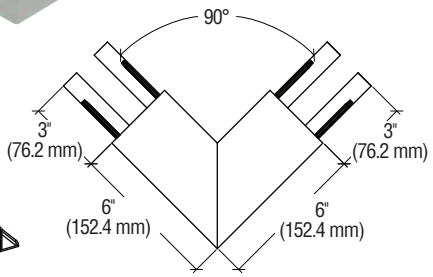
Colors shown are representative only, and may vary slightly from actual gloss, color, and texture. If color match is critical, please contact Technical Sales for additional information.

Additional Color Options - CRL has over 250 quick turn custom color options with the ability to color match as well.

- Ready to Install







CRL 350 Series 90 Degree Horizontal Corners

- Welded and Finished
- Matches Shape of Top Rail
- Seven Standard Powder Coated Finishes, Plus Unfinished Chromate
- Includes Aluminum Connector Splice Plates
- 6005 Alloy Aluminum/T5 Temper
- 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 B375).

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	Chromate

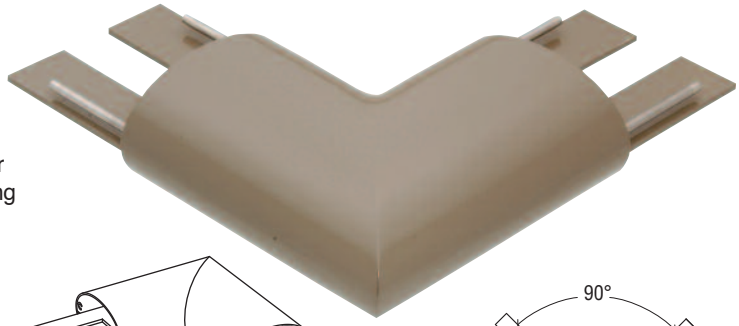
Minimum order: 1 each. All Railing Corners can be combined for quantity pricing.

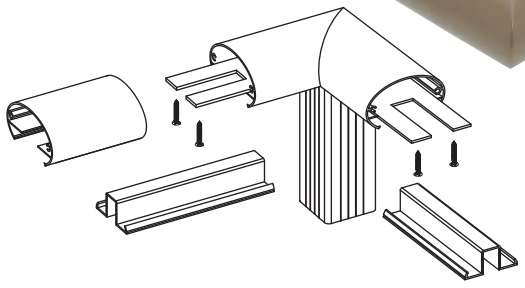
STANDARD COLORS

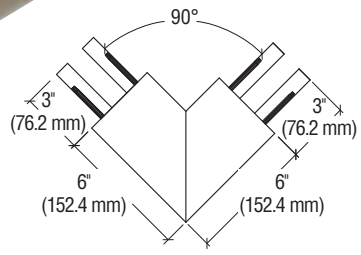
Colors shown are representative only, and may vary slightly from actual gloss, color, and texture. If color match is critical, please contact Technical Sales for additional information.

Additional Color Options - CRL has over 250 quick turn custom color options with the ability to color match as well.

- Ready to Install







CRL 400 Series 90 Degree Horizontal Corners

- Welded and Finished
- Matches Shape of Top Rail
- Seven Standard Powder Coated Finishes, Plus Unfinished Chromate
- Includes Aluminum Connector Splice Plates
- 6005 Alloy Aluminum/T5 Temper
- 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 B375).

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	Chromate

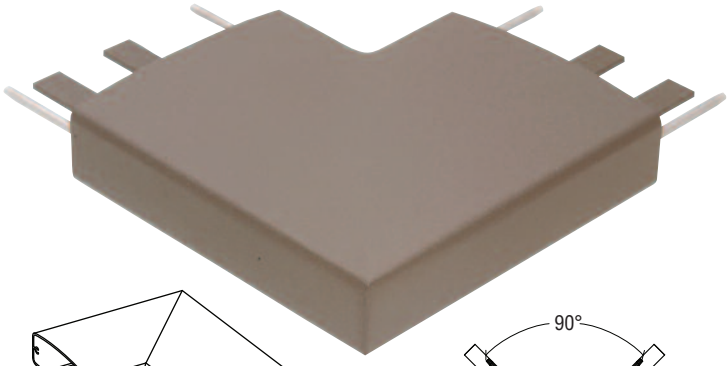
Minimum order: 1 each. All Railing Corners can be combined for quantity pricing.

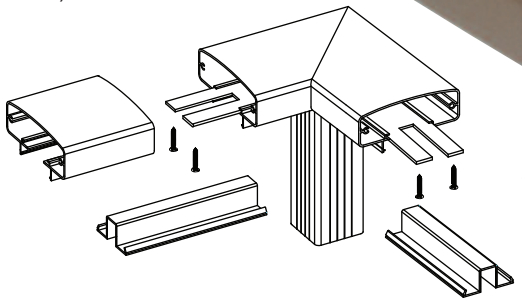
STANDARD COLORS

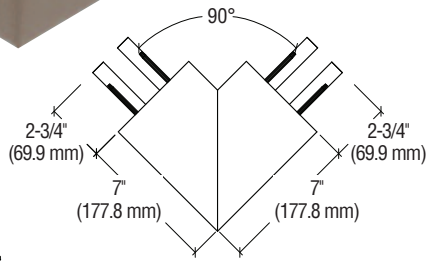
Colors shown are representative only, and may vary slightly from actual gloss, color, and texture. If color match is critical, please contact Technical Sales for additional information.

Additional Color Options - CRL has over 250 quick turn custom color options with the ability to color match as well.

- Ready to Install







CRL 200 Series 135 Degree Horizontal Corners

- Welded and Finished
- Matches Shape of Top Rail
- Seven Standard Powder Coated Finishes, Plus Unfinished Chromate
- Includes Aluminum Connector Splice Plates
- 6005 Alloy Aluminum/T5 Temper
- Custom Angle Corners Also Available

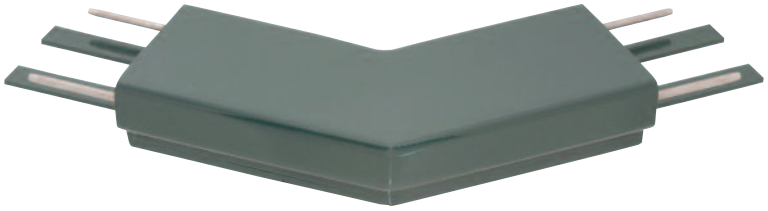
CRL 200 Series Horizontal Corners are fabricated, finished, powder coated and individually packaged. This interior slip-fit corner is designed for 135 degree corner conditions that allow for a hairline joint in the straight sections of the railing without having to miter cut angles in the field. Attach the Corners using CRL Cat. No. TEK1 Tek Screws (see page B375).

STANDARD COLORS

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.

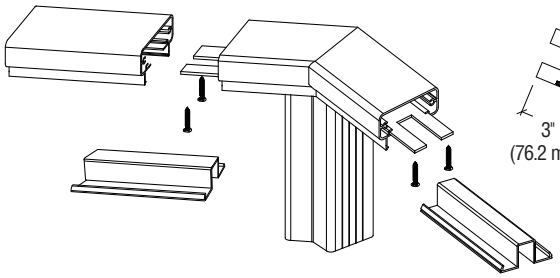
Additional Color Options - CRL has over 250 quick turn custom color options with the ability to color match as well.

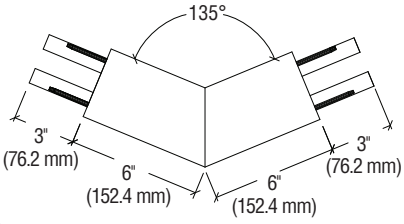
- Ready to Install



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	Chromate

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





CRL 300 Series 135 Degree Horizontal Corners

- Welded and Finished
- Matches Shape of Top Rail
- Seven Standard Powder Coated Finishes, Plus Unfinished Chromate
- Includes Aluminum Connector Splice Plates
- 6005 Alloy Aluminum/T5 Temper
- 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 B375).

STANDARD COLORS

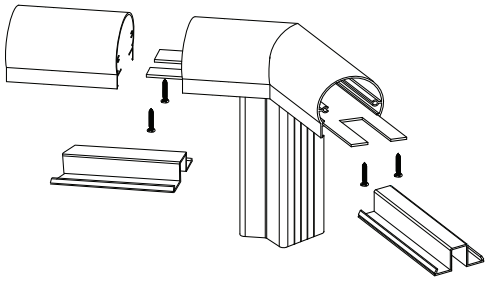
Colors shown are representative only, and may vary slightly from actual gloss, color, and texture. If color match is critical, please contact Technical Sales for additional information.

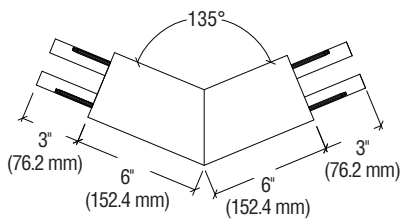
Additional Color Options - CRL has over 250 quick turn custom color options with the ability to color match as well.

- Ready to Install

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	Chromate

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





CRL 350 Series 135 Degree Horizontal Corners

- Welded and Finished
- Matches Shape of Top Rail
- Seven Standard Powder Coated Finishes, Plus Unfinished Chromate
- Includes Aluminum Connector Splice Plates
- 6005 Alloy Aluminum/T5 Temper
- Custom Angle Corners Also Available

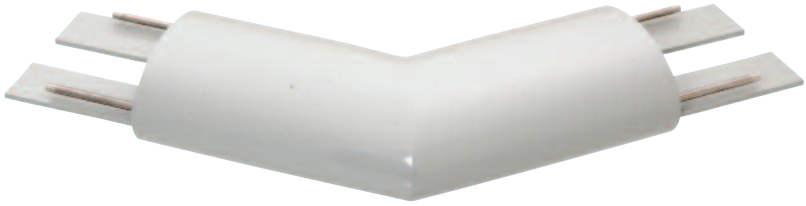
CRL 350 Series Horizontal Corners are fabricated, finished, powder coated and individually packaged. This interior slip-fit corner is designed for 135 degree corner conditions that allow for a hairline joint in the straight sections of the railing without having to miter cut angles in the field. Attach the Corners using CRL Cat. No. TEK1 Tek Screws (see page B375).

STANDARD COLORS

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.

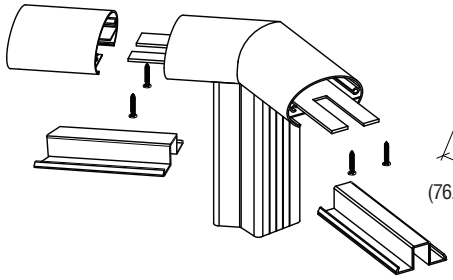
Additional Color Options - CRL has over 250 quick turn custom color options with the ability to color match as well.

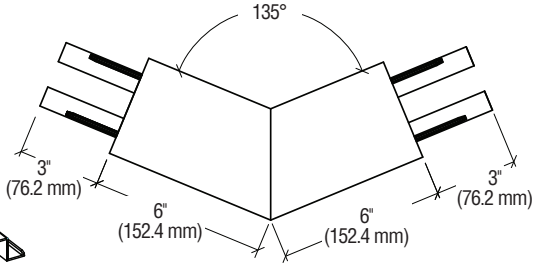
- Ready to Install



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	Chromate

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





CRL 400 Series 135 Degree Horizontal Corners

- Welded and Finished
- Matches Shape of Top Rail
- Seven Standard Powder Coated Finishes, Plus Unfinished Chromate
- Includes Aluminum Connector Splice Plates
- 6005 Alloy Aluminum/T5 Temper
- 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 B375).

STANDARD COLORS

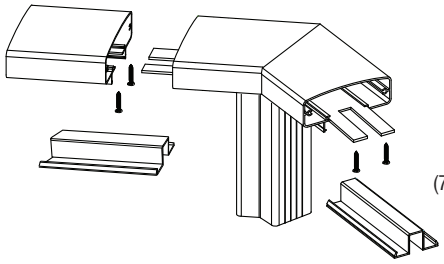
Colors shown are representative only, and may vary slightly from actual gloss, color, and texture. If color match is critical, please contact Technical Sales for additional information.

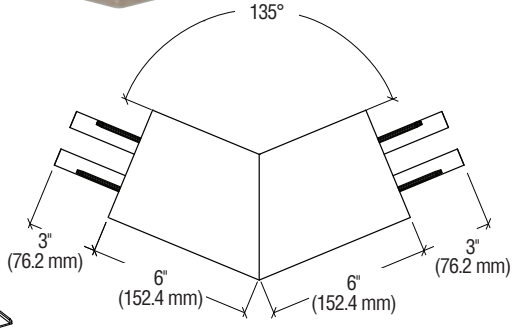
Additional Color Options - CRL has over 250 quick turn custom color options with the ability to color match as well.

- Ready to Install

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	Chromate

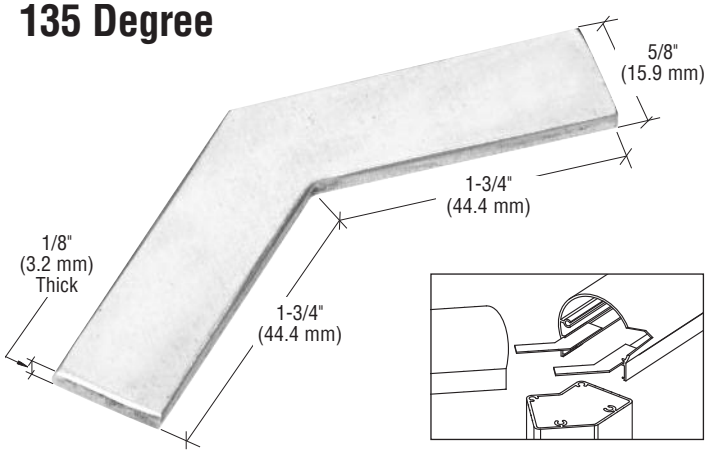
Minimum order: 1 each. All Railing Corners can be combined for quantity pricing.





CRL Corner Brackets for 200, 300, and 400 Series Rails

135 Degree

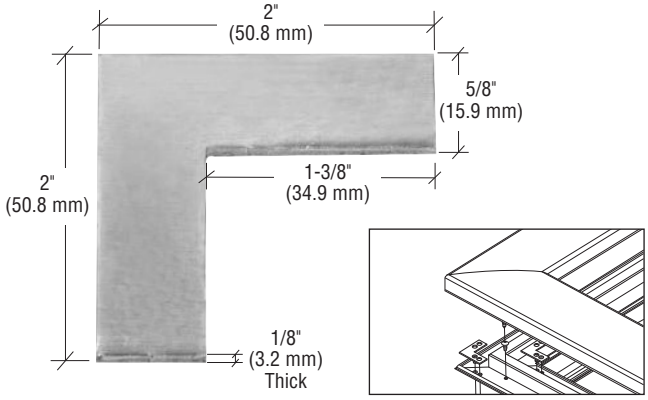


The CRL 135 Degree Corner Bracket was designed to fit underneath our 200, 300, and 400 Series Top Rails. Brackets are held in place with four Cat. No. TEK1 Self-Tapping Tek Screws (see page B375). Two Brackets are required to butt-join a mitered Top Rail together, then are attached to an ARS Vertical Post. Aluminum Brackets are concealed under the Top Rail to connect corners.

CAT. NO.	DESCRIPTION
45CB	135 Degree Bracket

Minimum order: 1 each.

90 Degree



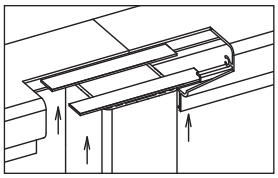
CRL 90 Degree Corner Brackets fit underneath our 200, 300, and 400 Series Top Rails. Brackets are held in place with four Cat. No. TEK1 Tek Screws (see page B375). Two Brackets are required to butt-join a mitered Top Rail together, then are attached to an ARS Vertical Post. Aluminum Brackets are concealed under the Top Rail to connect corners.

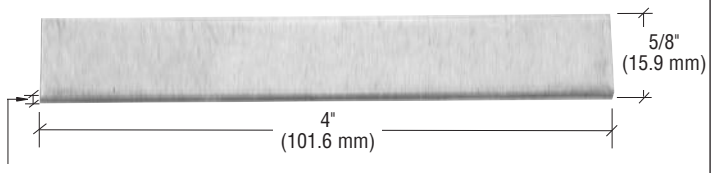
CAT. NO.	DESCRIPTION
90CB	90 Degree Bracket

Minimum order: 1 each.

CRL Splice Plates for 200, 300, and 400 Series Rails

- **Aluminum Splice Plates Fit Under Top Rail to Splice Top Rails Together Over a Post**





1/8" (3.2 mm) Thick

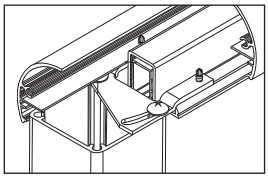
This CRL Splice Plate was designed to fit underneath our 200, 300, and 400 Series Top Rails. Plates are held in place with two Cat. No. TEK1 Self-Tapping Tek Screws (see page B375). Two Plates are required at each splice joint.

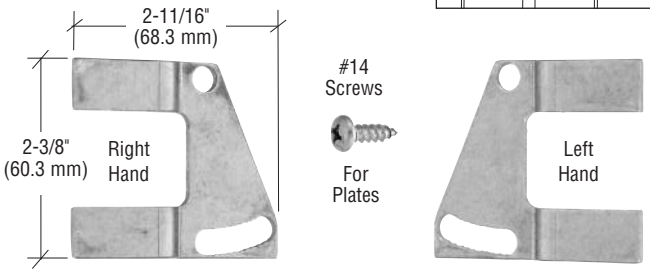
CAT. NO.	DESCRIPTION
TCP1	Splice Plate

Minimum order: 1 each.

CRL Adjustable Fastening Plates for Top Rails

- **Aluminum Plates Attach to Top of Vertical Post Then to Top Rail**
- **No Exposed Screws Design**





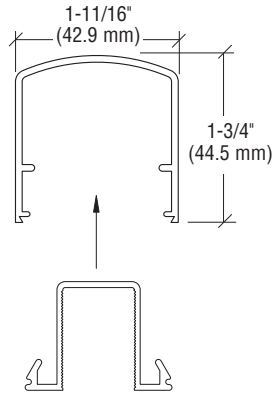
The CRL Adjustable Fastening Plate was designed to first attach to the top of the ARS Vertical Posts, then underneath the Top Rails of our 200, 300, 350, and 400 Series Railings. Plates are held in place with Cat. No. CBS1 Pan Head Screws. Two Left Hand Plates are required to butt-join straight Top Rails 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.

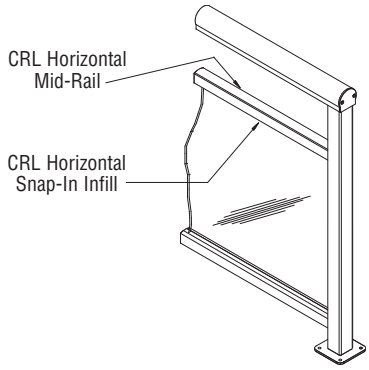
CRL Horizontal Mid-Rail for 200, 300, 350, and 400 Series Rails

- Designed to Accommodate 1/4" to 1/2" (6 to 12 mm) Glass or 3/4" (19 mm) Square Pickets
- Seven Standard Colors, Plus Unfinished Chromate
- Custom Powder Coat Colors Also Available
- Designed to Be Anchored Between Posts Using RCB2 Mounting Blocks



Use Only TEMPERED GLASS

MANUFACTURED IN THE USA BY C.R. LAURENCE
An ISO9001:2008 Certified Company



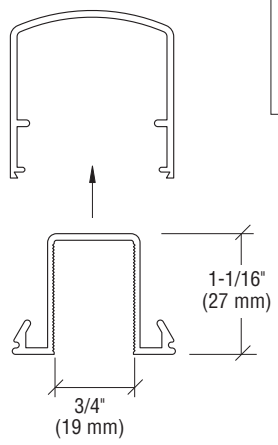
CRL Horizontal Mid-Rail is designed to accommodate Glass or Picket Infills. For glass applications use MR1F Glass Snap-In Filler (see below). For Picket applications use our BRF241 Bottom Rail Filler (see page B374). Stock lengths measure 20'-1" (6.12 m). See page B375 for Rail Connecting Blocks. See page B374 for standard color chart.

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	Chromate

Minimum order: 1 each. Must ship common carrier.

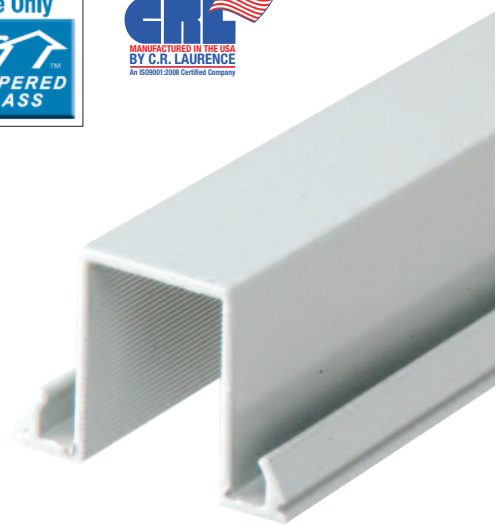
CRL Horizontal Snap-In Infill for Glass

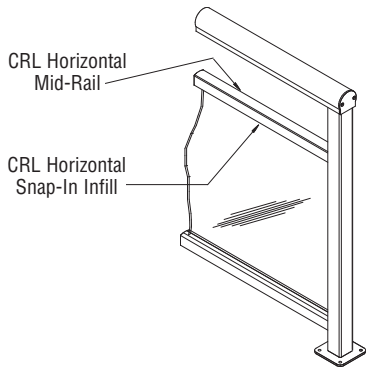
- Designed to Accommodate 1/4" to 1/2" (6 to 12 mm) Glass
- Designed to Be Anchored Between Posts Using RCB2 Mounting Blocks
- Seven Standard Colors, Plus Unfinished Chromate
- Custom Powder Coat Colors Also Available
- Snaps In From the Underside of the Horizontal Mid-Rail



Use Only TEMPERED GLASS

MANUFACTURED IN THE USA BY C.R. LAURENCE
An ISO9001:2008 Certified Company





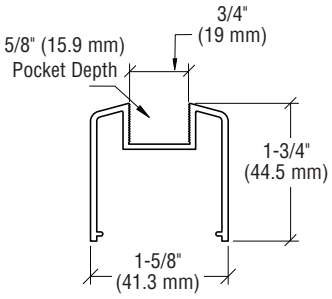
CRL Horizontal Snap-In Infill for Glass is designed to accommodate 1/4" to 3/8" (6 to 10 mm) glass with vinyl or 1/2" (12 mm) glass wet glazed with silicone. The Glass Snap-In Infill is designed to snap into the underside of the MR1 Horizontal Mid-Rail (see above). Stock lengths measure 20'-1" (6.12 m). See page B375 for Rail Connecting Blocks. See page B374 for standard color chart.

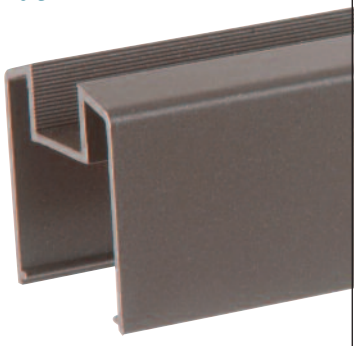
CAT. NO.	COLOR
MR1FW	Sky White
MR1F0W	Oyster White
MR1FAGY	Agate Gray
MR1FBGY	Beige Gray
MR1FBL	Matte Black
MR1FBRZ	Matte Bronze
MR1FS	Silver Metallic
MR1FCRM	Chromate

Minimum order: 1 each. Must ship common carrier.

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
- Seven Standard Colors, Plus Unfinished Chromate





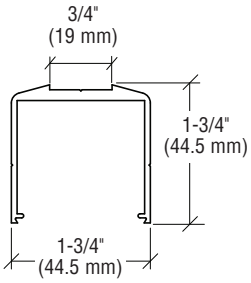
CAT. NO.	COLOR
BRGLSW	Sky White
BRGLS0W	Oyster White
BRGLSAGY	Agate Gray
BRGLSBGY	Beige Gray
BRGLSBL	Matte Black
BRGLSBRZ	Matte Bronze
BRGLSS	Silver Metallic
BRGLSCRM	Chromate

Minimum order: 1 each. Must ship common carrier.

Our 200, 300, 350, and 400 Series 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 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 Unfinished Chromate



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	Chromate

Minimum order: 1 each. Must ship common carrier.

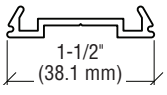
The 200, 300, 350, and 400 Series Picket Bottom Rail is designed to accommodate 3/4" (19 mm) Square or Round Pickets. Simply snaps over Rail Connecting Block for an easy install. Stock lengths measure 20'-1" (6.12 m).

STANDARD COLORS

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.

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 Bottom Rail for Glass or Bottom Rail for Pickets
- Seven Standard Colors, Plus Unfinished Chromate
- Also Works With Horizontal Mid Rails



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	Chromate

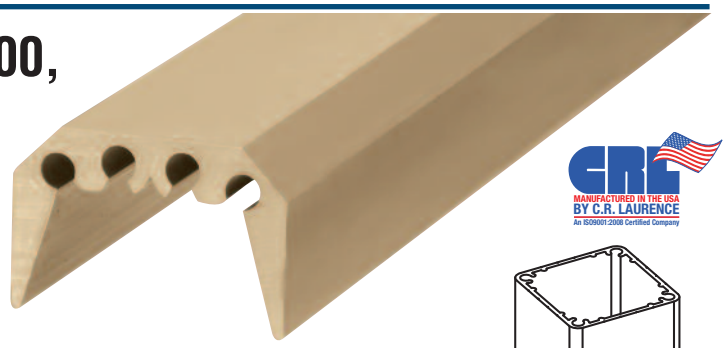
Minimum order: 1 each. Must ship common carrier.

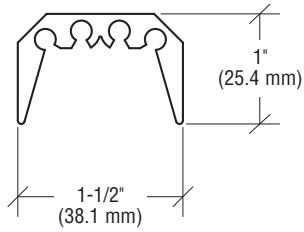
CRL Standard Bottom Rail Filler is designed to finish off the underside of Bottom Rail to create a flush look. Stock lengths measure 20'-1" (6.12 m).

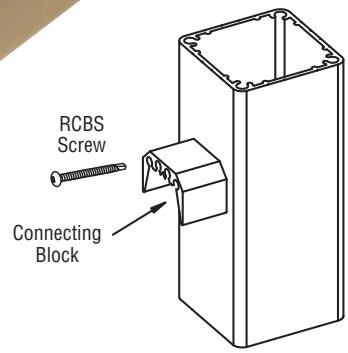
CRL Rail Connecting Blocks for 200, 300, 350, and 400 Series Rails

- **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. Miter cut the 12" or 241" lengths when building angles and slopes. All Connecting Blocks are extruded aluminum with a weather resistant chromate finish.





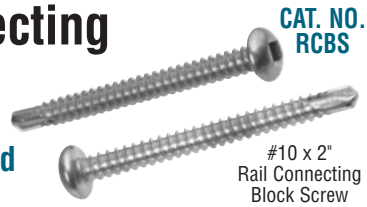


CAT. NO.	LENGTH
RCB2	1" (25.4 mm)
RCB212	12" (305 mm)
RCB2241	241" (6.12 m)#

Minimum order: 1 each. # Must ship common carrier.

CRL Rail Connecting Block Screws

CAT. NO. RCBS



- **For 200, 300, 350, and 400 Series Railings**
- **Self-Tapping**
- **Stainless Steel**

CAT. NO. 9502

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" (50.8 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

CAT. NO. TEK1

- **For 200, 300, 350, and 400 Series Railings**
- **Self-Tapping**
- **Stainless Steel**

CAT. NO. 9502

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.

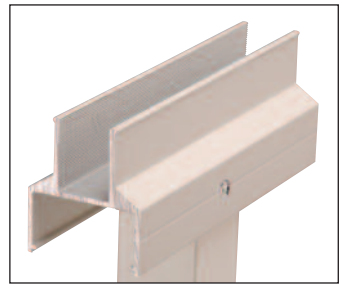
CAT. NO.	DESCRIPTION	SIZE
TEK1	Rail Fastening Screw	#8 x 3/4" (19 mm) ▲
9502	Square Insert Bit for Screws	1/8" (3 mm) #

▲ Minimum order: 50 each. Must be ordered in increments of 50. # Minimum order: 1 each.

CRL Intermediate Bottom Support

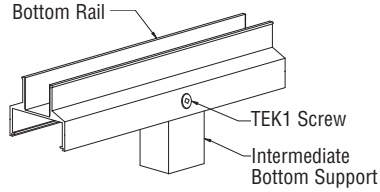
- **For Use With All of Our Aluminum Railings**
- **Seven Standard Colors to Match Our Bottom Rails, Plus Unfinished Chromate**

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. 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	Chromate

Minimum order: 1 each.



CRL Surface Mount Post Kits for 200, 300, 350, and 400 Series Rails

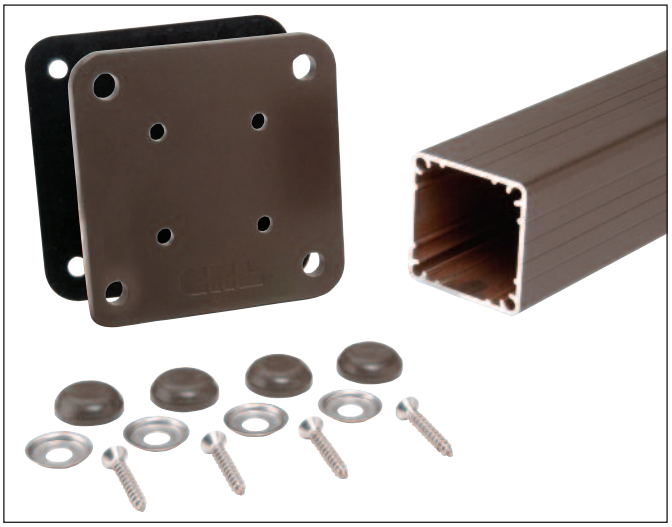
- 2-3/8" (60.3 mm) Square
- Use for 180 Degree, 90 Degree or End Posts
- Three Standard Post Heights
- Complete With Base Plate, Stainless Washers, Screws, and Bolt Cover Buttons
- Seven Standard Colors, Plus Unfinished Chromate

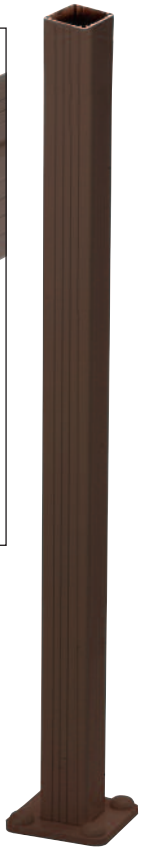
CRL 200, 300, 350, and 400 Series Surface Mount Post Kits come complete with Base Plate (BP5), Moisture Barrier Gasket (BPG1BL), Base Plate Screws (BPS112), Stainless Steel Washers (WSHR1), and Color Match Bolt Cover Buttons (BTN1). Standard Posts Kits are available in your choice of three heights and seven attractive colors, plus unfinished chromate. Custom heights and colors are also available.

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 when ordering.

Standard Kits Include:





STANDARD COLORS

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Additional Color Options - CRL has over 250 quick turn custom color options with the ability to color match as well.

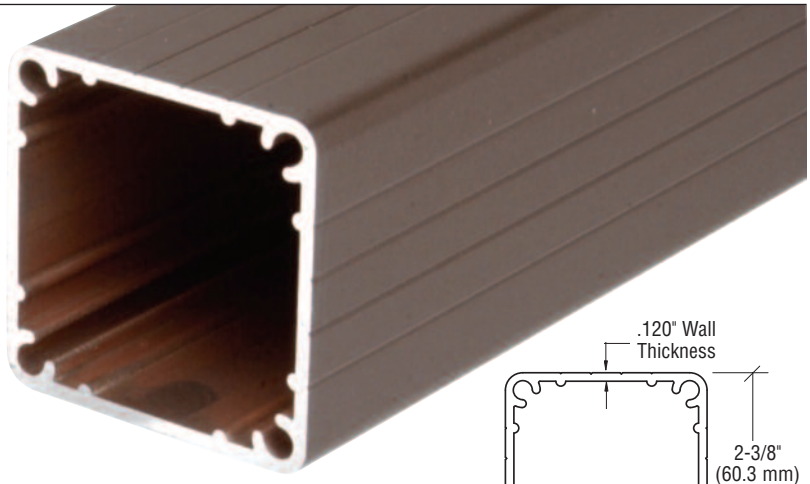
CRL Posts Only for 200, 300, 350, and 400 Series Rails

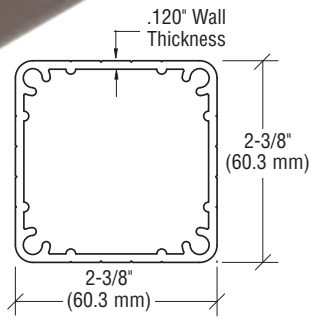
- 2-3/8" (60.3 mm) Square
- Use for 180 Degree, 90 Degree or End Posts
- Three Standard Post Heights
- Seven Standard Colors, Plus Unfinished Chromate
- 6005 Alloy Aluminum/T5 Temper

CRL 200, 300, 350, and 400 Series Aluminum Posts are available in your choice of three heights and seven attractive colors, plus unfinished chromate. You can also cut custom posts from our 20'-1" (6.12 m) stock length. Custom heights and colors are also available.

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 when ordering.
Must ship common carrier.





STANDARD COLORS

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Additional Color Options - CRL has over 250 quick turn custom color options with the ability to color match as well.

CRL 135 Degree Surface Mount Post Kits for 200, 300, 350, and 400 Series Rails

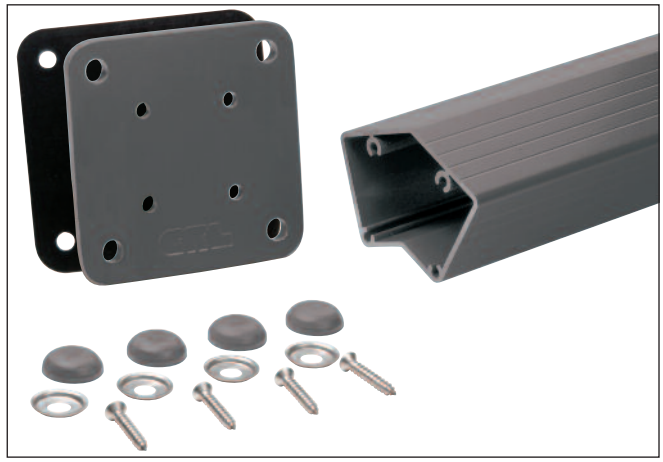
- Three Standard Post Heights
- Complete With Base Plate, Moisture Barrier Gasket, Screws, Stainless Washers, and Bolt Cover Buttons
- Designed to Be Installed Onto Concrete, Wood, Steel, and Other Substrates
- Seven Attractive Colors, Plus Unfinished Chromate

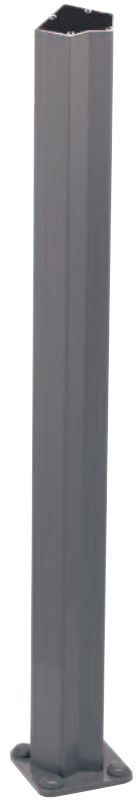
CRL 135 Degree Post Kits Come complete with Base Plate (BP5), Moisture Barrier Gasket (BPG1BL), Base Plate Screws (BPS112), Stainless Steel Washers (WSHR1), and Color Match Bolt Cover Buttons (BTN1). Standard Post Kits are available in your choice of three heights and seven attractive colors, plus unfinished chromate. Custom heights and colors are also available.

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 when ordering.

Standard Kits Include:





STANDARD COLORS

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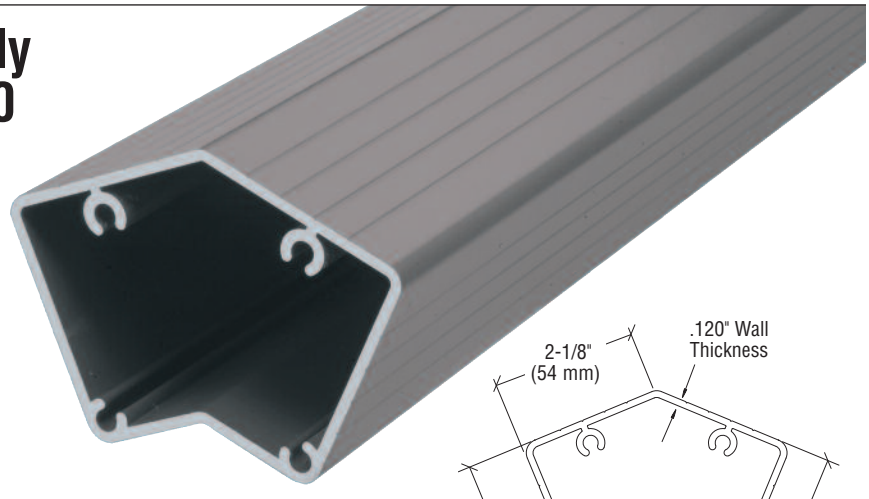
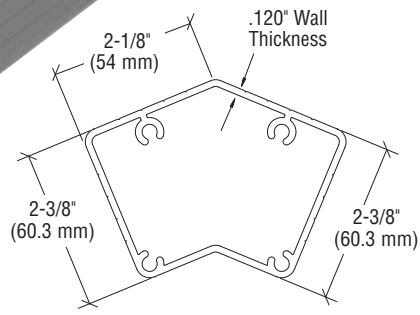
Additional Color Options - CRL has over 250 quick turn custom color options with the ability to color match as well.

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 Attractive Colors, Plus Unfinished Chromate

CRL 135 Degree Posts are available in your choice of three heights and seven attractive colors, plus unfinished chromate. 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.





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 when ordering.
Must ship common carrier.

STANDARD COLORS

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Additional Color Options - CRL has over 250 quick turn custom color options with the ability to color match as well.

CRL Fascia Mount Post Kits for 200, 300, 350, and 400 Series Rails

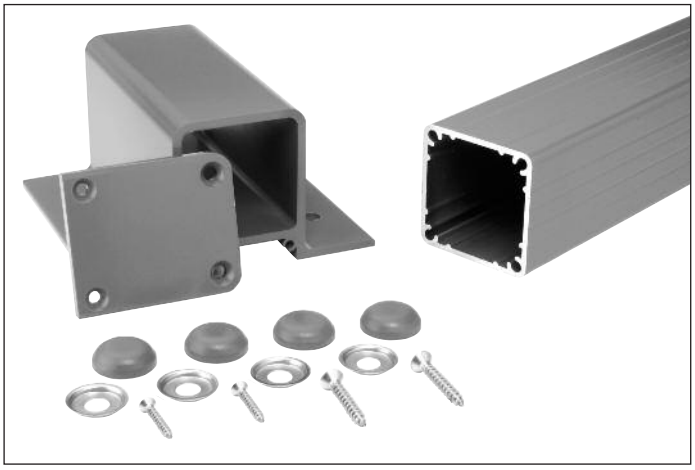
- 2-3/8" (60.3 mm) Square
- Use for Center and End Posts
- Designed to Mount to Almost Any Substrate
- Three Standard Post Heights
- Seven Standard Colors, Plus Unfinished Chromate
- 6005 Alloy Aluminum/T5 Temper

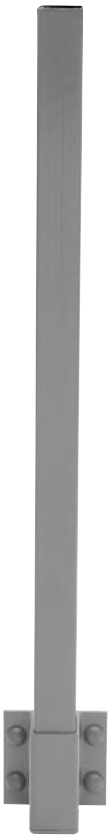
CRL 200, 300, 350, and 400 Series Fascia Mount Post Kits come complete with a Post that has an additional 10" (254 mm) in length, Fascia Bracket (FB1), Base Plate Screws (BPS112), Stainless Steel Washers (WSHR1), and Bolt Cover Buttons (BTN1). Fascia Mount Post Kits are available in your choice of three heights and seven attractive colors, plus unfinished chromate. Custom heights and colors are also available.

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 when ordering.

Standard Kits Include:





STANDARD COLORS

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Additional Color Options - CRL has over 250 quick turn custom color options with the ability to color match as well.

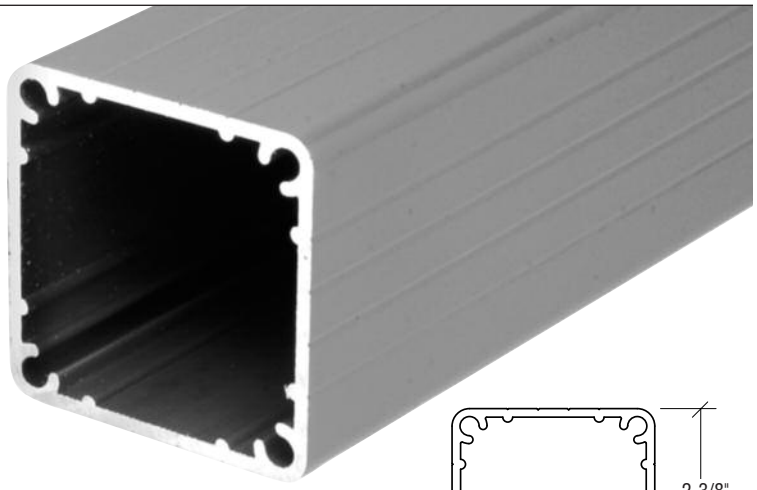
CRL Fascia Mount Posts Only for 200, 300, 350, and 400 Series Rails

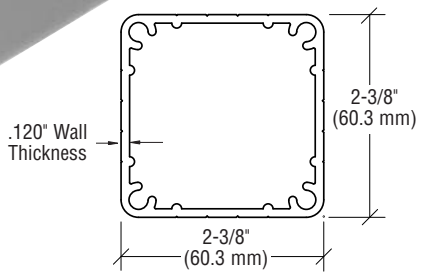
- 2-3/8" (60.3 mm) Square
- Three Standard Post Heights, Plus a Stock Length You Can Cut to The Needed Size
- Seven Standard Colors, Plus Unfinished Chromate
- Custom Colors Also Available
- 6005 Alloy Aluminum/T5 Temper

CRL 200, 300, 350, and 400 Series 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 unfinished chromate. You can also cut custom posts from our 20'-1" (6.12 m) stock length. Custom heights and colors are also available.

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 when ordering.
Must ship common carrier.





STANDARD COLORS

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Additional Color Options - CRL has over 250 quick turn custom color options with the ability to color match as well.

CRL 90 Degree Fascia Mount Post Kits for 200, 300, 350, and 400 Series Rails

- For 2-3/8" (60.3 mm) Square Posts
- Designed for Outside 90 Degree Mounting Conditions to Almost Any Substrate
- 6005 Alloy Aluminum T5 Temper
- Seven Standard Colors, Plus Unfinished Chromate
- Three Standard Post Heights

These CRL 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 (BPS112), Stainless Steel Washers (WSHR1), and Bolt Cover Buttons (BTN1). Custom heights and colors are also available.

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 when ordering.

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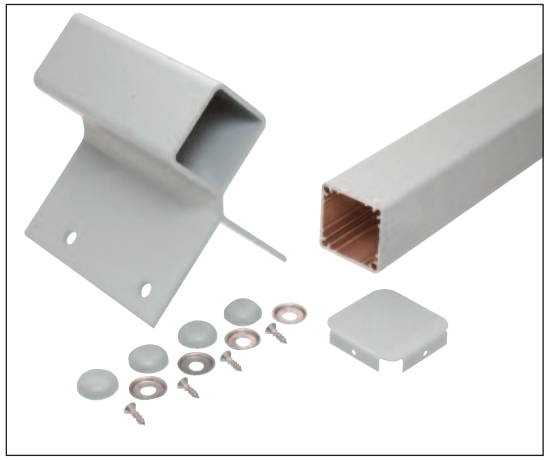
An ISO9001:2008 Certified Company

Standard Kits Incude:



STANDARD COLORS

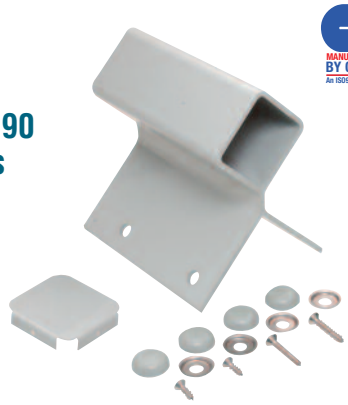
Colors shown are representative only, and may vary slightly from actual gloss, color, and texture. If color match is critical, please contact Technical Sales for additional information.

Additional Color Options - CRL has over 250 quick turn custom color options with the ability to color match as well.

CRL 90 Degree Fascia Mount Brackets

- Specifically Designed for Outside 90 Degree Fascia Mount Installations
- Works With Almost Any Deck
- Seven Standard Colors, Plus Unfinished Chromate

Use these CRL 90 Degree Fascia Mount Brackets to attach 2-3/8" (60.3 mm) Vertical Posts to the side of the almost any deck.



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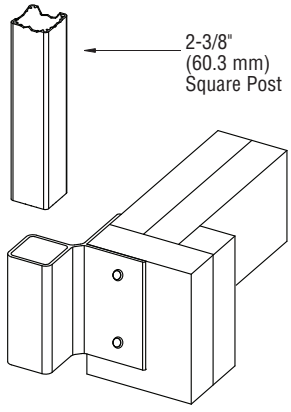
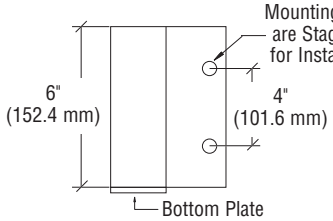
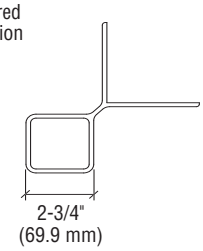
An ISO9001:2008 Certified Company







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	Chromate

Minimum order: 1 each.

NOTE: Not for use with our 4" x 4" Vertical Posts.

STANDARD COLORS

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.

CRL Fascia Mount Brackets

- **Seven Standard Colors, Plus Unfinished Chromate Available to Match All CRL Aluminum Railings Using Our 2-3/8" (60.3 mm) Square Aluminum Posts**

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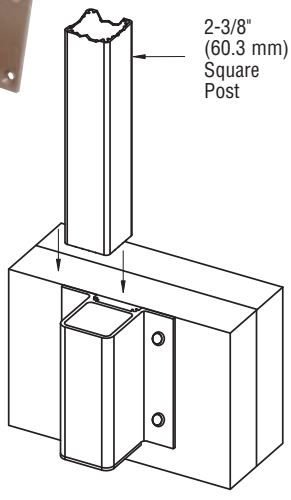
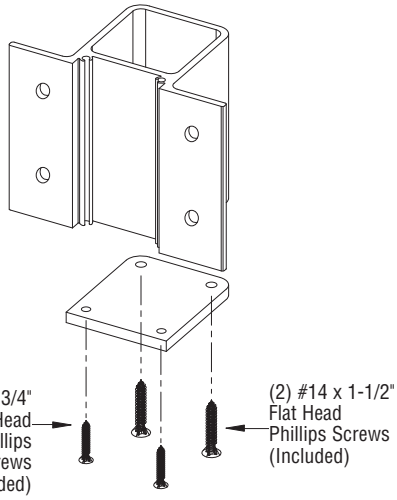
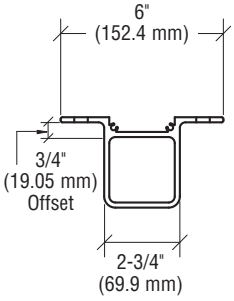
Use the CRL Fascia Mount Bracket to attach Vertical Posts to the face of any deck (see page B381 for mounting hardware).
NOTE: Not for use with our 4 x 4 Vertical Posts.

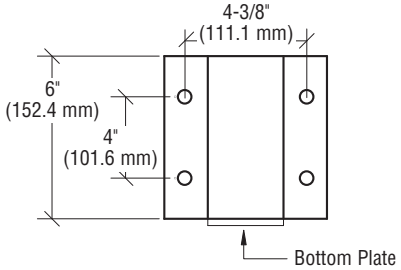
CAT. NO.	COLOR
FB1W	Sky White
FB10W	Oyster White
FB1AGY	Agate Gray
FB1BGY	Beige Gray
FB1BL	Matte Black
FB1BRZ	Matte Bronze
FB1S	Silver Metallic
FB1CRM	Chromate

Minimum order: 1 each. See page B379 for color chart.









CRL Touch-Up Paint

- **Matches Seven CRL Powder Paint Colors**
- **Used to Cover Scratches or Bare Metal Ends**

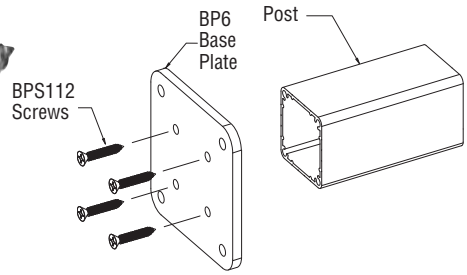
CAT. NO.	COLOR
SP8W	Sky White
SP80W	Oyster White
SP8AGY	Agate Gray
SP8BGY	Beige Gray
SP8BL	Matte Black
SP8BRZ	Matte Bronze
SP8S	Silver Metallic

Minimum order: 1 each. See page B379 for color chart.

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.

CRL Base Plate Screws

- For Use With All Square Base Plates
- Stainless Steel



CAT. NO.	DESCRIPTION	SIZE
BPS112	Base Plate Screw	#14 x 1-1/2" (38.1 mm)

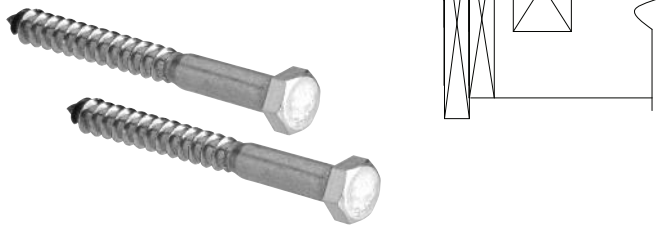
Minimum order: 50 each. Must be ordered in increments of 50.

CRL Lag Bolts

- Attach Vertical Posts to a Wooden Substrate
- Stainless Steel

Use CRL Lag Bolts with CRL Stainless Steel Washers (WSHR1) and Color Match Bolt Cover Buttons (BTN1) to create a finished look. All Lag Bolts are designed to attach to a wooden substrate. See next page for Color Match Bolt Cover Buttons and Stainless Steel Washers.

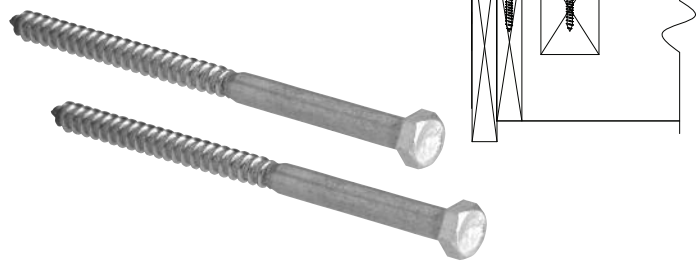
CRL 3/8" x 3-1/2" Lag Bolts



CAT. NO.	SIZE	LENGTH	QTY/BOX
LB350	3/8" (9.5 mm)	3-1/2" (88.9 mm)	20

Minimum order: 20 each.

CRL 3/8" x 6" Lag Bolts



CAT. NO.	SIZE	LENGTH	QTY/BOX
LB600	3/8" (9.5 mm)	6" (152.4 mm)	20

Minimum order: 20 each.

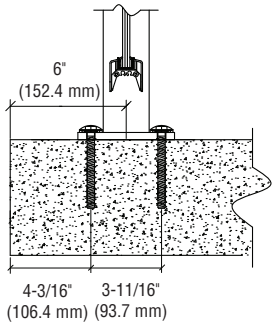
CRL Concrete Anchors

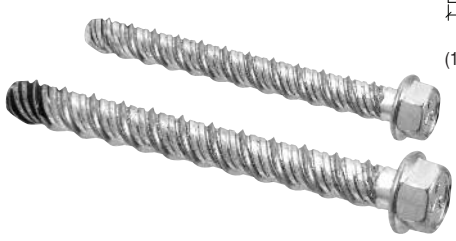
- To Attach Vertical Posts to Concrete Substrate

CRL Concrete Anchors are ideal for attaching Vertical Post Kits to substrate. Use with Cat. No. WSHR1 Stainless Steel Washers and Color Match Bolt Cover Buttons (see next page) to create a finished look.

CRL Wedge-Bolt Anchors

- Heat Treated Carbon Steel

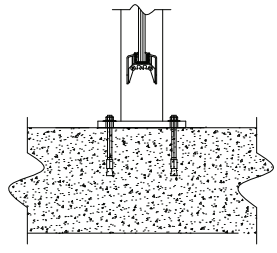


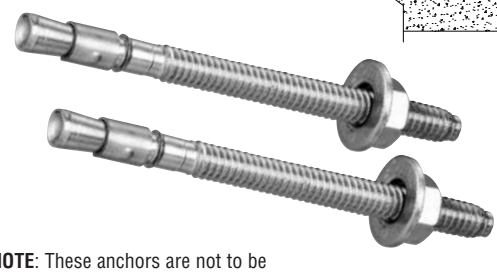


CAT. NO.	SIZE	LENGTH	QTY/BOX
WBA38X4	3/8" (9.5 mm)	4" (101.6 mm)	50
WBA14X3	1/4" (6.3 mm)	3" (76.2 mm)	50

Minimum order: 50 each.

CRL Stainless Steel Anchors





NOTE: These anchors are not to be used for guard rail applications.

CAT. NO.	SIZE	LENGTH	QTY/BOX
CA325	1/4" (6.3 mm)	3-1/4" (82.5 mm)	20

Minimum order: 20 each.

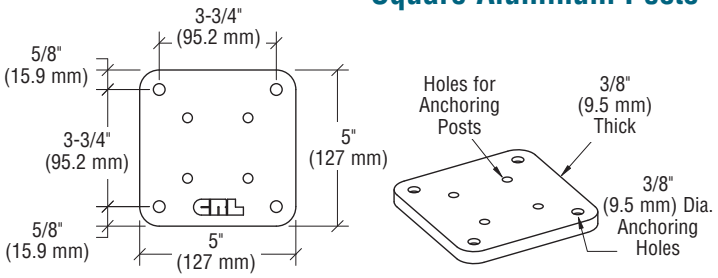
CRL Standard 5" Square Base Plates

- Seven Standard Colors, Plus Unfinished Chromate Available for Standard and 45 Degree Post
- For Use With All Standard Railings

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 B381). 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 Moisture Barrier Gasket Cat. No. BPG1BL is included with each Base Plate (see below).

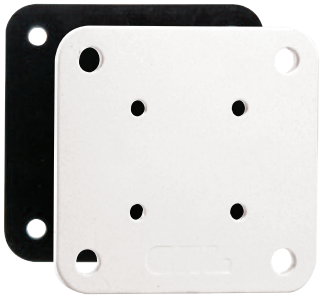
Square Base Plate

- For 2-3/8" (60.3 mm) Square Aluminum Posts



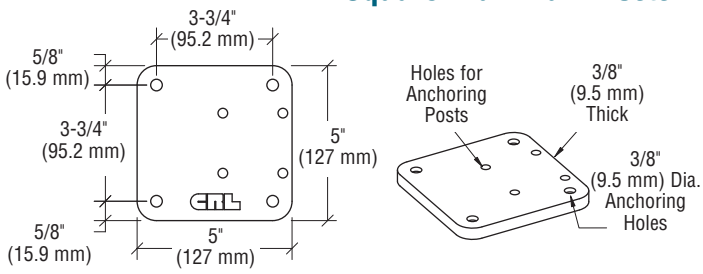
CAT. NO.	COLOR
BP5W	Sky White
BP50W	Oyster White
BP5AGY	Agate Gray
BP5BGY	Beige Gray
BP5BL	Matte Black
BP5BRZ	Matte Bronze
BP5S	Silver Metallic
BP5CRM	Chromate

Minimum order: 1 each. See page B384 for color chart.



Offset Base Plate

- For 2-3/8" (60.3 mm) Square Aluminum Posts



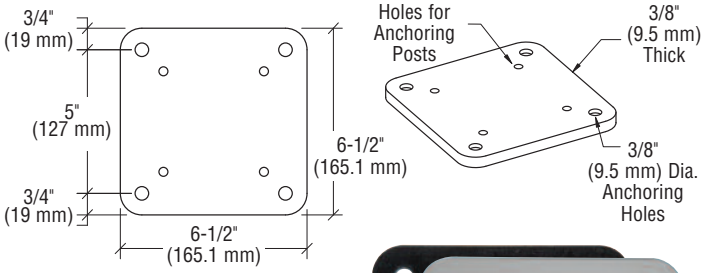
CAT. NO.	COLOR
BP05W	Sky White
BP050W	Oyster White
BP05AGY	Agate Gray
BP05BGY	Beige Gray
BP05BL	Matte Black
BP05BRZ	Matte Bronze
BP05S	Silver Metallic
BP05CRM	Chromate

Minimum order: 1 each. See page B384 for color chart.

CRL 6-1/2" Square Base Plates

- For Use With Our 4" x 4" Vertical Posts
- Seven Standard Colors, Plus Unfinished Chromate

This Square Base Plate screws into our 4" x 4" (101.6 x 101.6 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 B381). Use Stainless Steel Washers (WSHR1) and Color Match Bolt Cover Buttons (BTN1) to add a finished look. One each Moisture Barrier Gasket Cat. No. BPG3BL is included with each Base Plate.

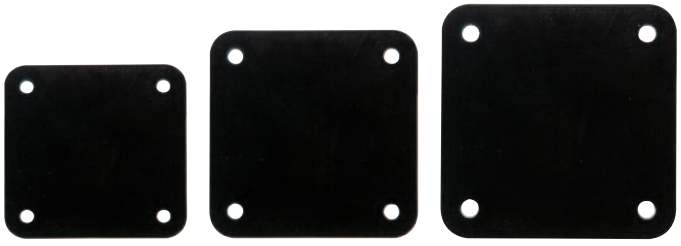


CAT. NO.	COLOR
BP6W	Sky White
BP60W	Oyster White
BP6AGY	Agate Gray
BP6BGY	Beige Gray
BP6BL	Matte Black
BP6BRZ	Matte Bronze
BP6S	Silver Metallic
BP6CRM	Chromate

Minimum order: 1 each. See page B384 for color chart.

CRL Moisture Barrier Gaskets

- Protects Metal Base Plates From Moisture in Concrete
- Three Sizes Available
- For Aluminum Railings and Windscreens
- 1/8" (3.2 mm) Thick



CRL Moisture Barrier Gaskets protect metal Base Plates on Posts and Stanchions from moisture absorption through concrete, brick, masonry, or stucco substrates. Moisture, over time will cause metal to corrode, and with these Barrier Gaskets between the substrate and Base Plate the metal is protected.

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" (165.1 mm x 165.1 mm)

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

CRL Color Match Bolt Cover Buttons

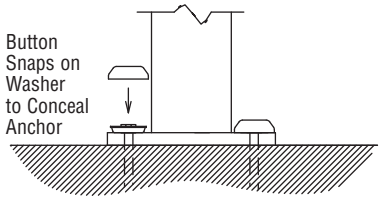
- **Snap-On Fit**
- **Seven Standard Colors**

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.

Button Diameter: 1-3/16" (30.1 mm)
Button Height: 3/8" (9.5 mm)

CAT. NO.	COLOR
BTN1W	Sky White
BTN10W	Oyster White
BTN1AGY	Agate Gray
BTN1BGY	Beige Gray
BTN1BL	Matte Black
BTN1BRZ	Matte Bronze
BTN1DS	Dark Silver

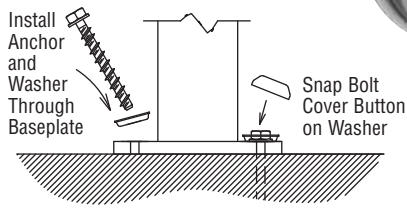
Minimum order: 50 each. Must be ordered in increments of 50. See page B384 for color chart.



CRL Stainless Steel Button Washer

- **Sleek Design Allows Bolt Cover Buttons to Snap Over the Stainless Steel Washer**

1" (25.4 mm) diameter Stainless Steel Washer with a 7/16" (11.1 mm) hole. Designed to accept CRL Color Match Bolt Cover Buttons.



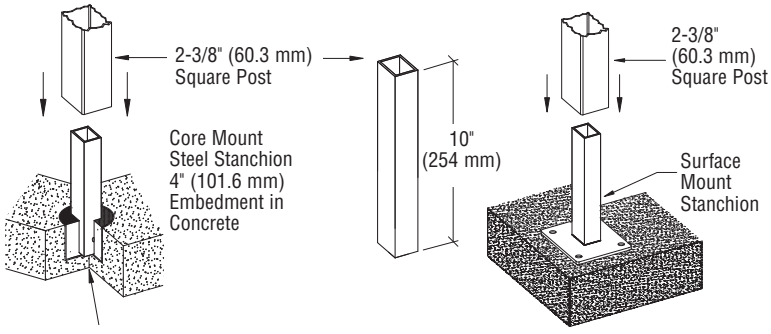
CAT. NO.	DIAMETER	HOLE	THICKNESS
WSHR1	1" (25.4 mm)	7/16" (11.1 mm)	1/8" (3.2 mm)

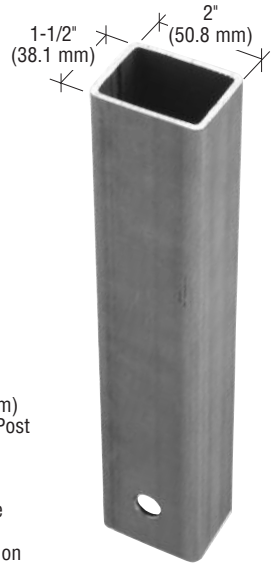
Minimum order: 50 each. Must be ordered in increments of 50.

CRL ARS Stanchions

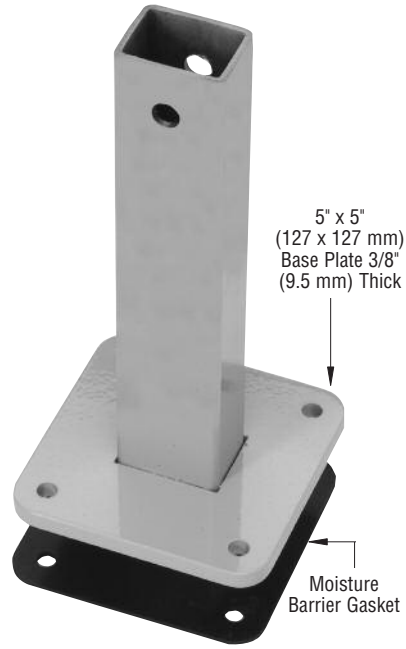
- **Designed for All Series of CRL Aluminum Railings Using Our 2-3/8" (60.3 mm) Square Aluminum Posts**
- **Stainless Steel**

Use these 1-1/2" x 2" (38.1 x 50.8 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 B398 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.





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. See page B384 for color chart.

CRL Picket Panels for 200, 300, 350, and 400 Series Rails

- 3/4" (19 mm) Square Pickets in Seven Standard Colors, Plus Unfinished Chromate
- Nine Standard Picket Panel Sizes
- Custom Picket Panels Also Available

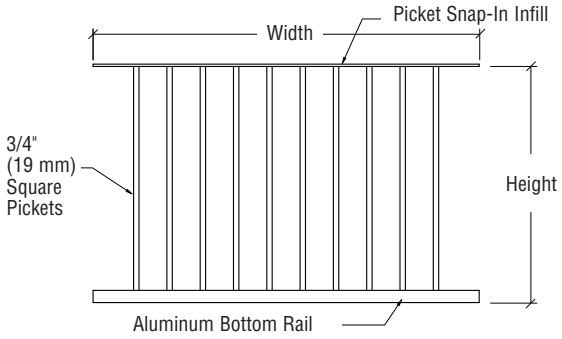
CRL Picket Panels are available in a variety of lengths and widths. Seven stock colors, plus unfinished chromate to choose from. Use CRL Picket Panels to save time and cost. All Panels come with Top Infill, Bottom Rail, and Pickets spaced 3-7/8" (98.4 mm) apart.

STANDARD COLORS

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

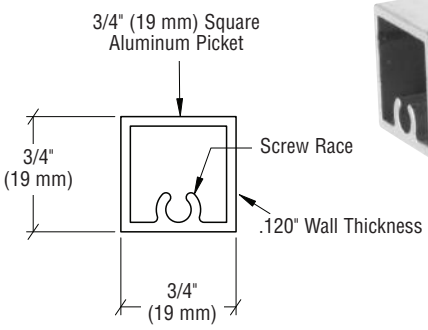
Minimum order: 1 each. * Specify powder coat color when ordering. Must ship common carrier.



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 Unfinished Chromate
- Easy to Install Design

Square Pickets



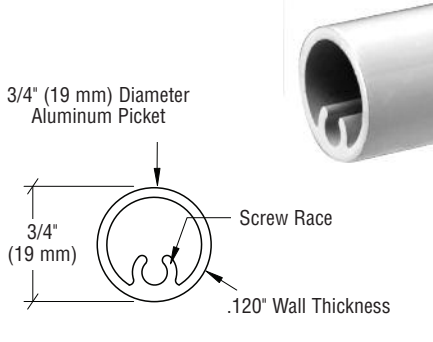
CAT. NO. PKTS2
Picket Screw

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	Chromate

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



CAT. NO. PKTS2
Picket Screw

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	Chromate

Minimum order: 1 each.
See above for color chart. Must ship common carrier.

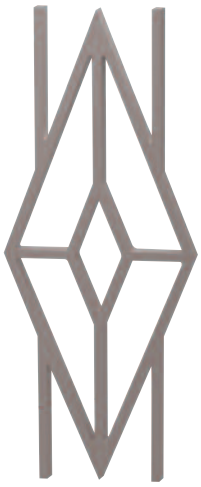
Use CRL 200, 300, 350, and 400 Series Round Picket Extrusions with Top Infills and Bottom Rails. The 3/4" (19 mm) Picket Extrusion attaches to Top Infills and Bottom Rails with a Cat. No. PKTS2 Stainless Steel Phillips Pan Head Picket Screw.

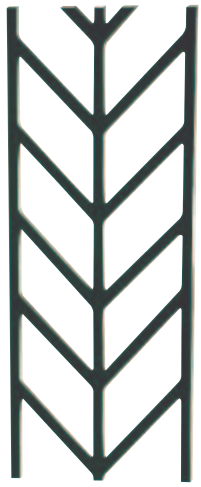
CRL Standard Cast Infills

MANUFACTURED IN THE USA BY C.R. LAURENCE
An ISO9001:2008 Certified Company

- **Made From Solid Cast Aluminum**
- **Seven Standard Colors, Plus Unfinished Chromate**
- **Combine With Pickets to Create a Unique Appearance for Your Railing System**
- **Designed for 36" and 42" (914 and 1067 mm) Tall Railings**

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.



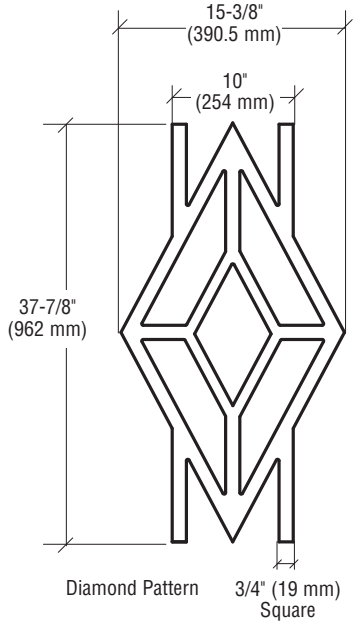


Diamond Pattern Cast Infills

CRL Diamond Pattern Cast Infill Panels are designed to work with all series of CRL Aluminum Railing Systems. Infills can create a unique architectural accent to your railing project.

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	Chromate

Minimum order: 1 each. See page B384 for color chart.

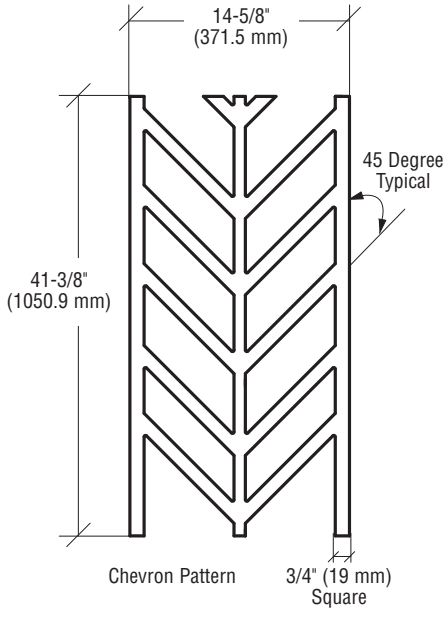


Chevron Pattern Cast Infills

CRL Chevron Pattern Cast Infill Panels are designed to work with all series of CRL Aluminum Railing Systems. Infills give a unique architectural appearance to your railing.

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	Chromate

Minimum order: 1 each. See page B384 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 9.5 mm) Aluminum Thickness**
- **Seven Standard Powder Coated Finishes, Plus Unfinished Chromate**
- **Custom Finishes Also Available**
- **Welded and Fabricated as a Railing Infill Panel or Can be Connected With Z-Series Clamps (See Pages B279-B285)**

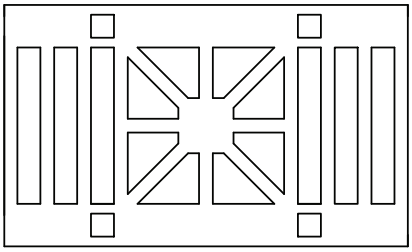
CRL Water Jet and Laser Cut Infill Panels are designed to be welded or connected with Z-Series Clamps into CRL's Aluminum Railing Systems as a decorative infill option. Each Water Jet or Laser Cut Panel is fabricated to your exact specifications and innovative designs at our Los Angeles manufacturing 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.

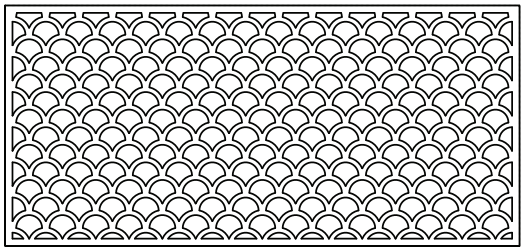
CAT. NO.	DESCRIPTION
ARSLSR1	Custom Water Jet/Laser Cut Aluminum Infill Panel

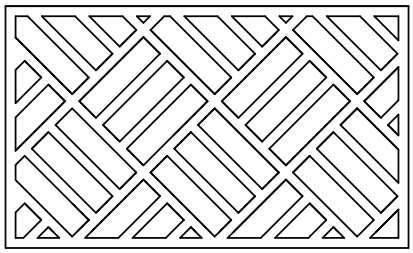
Minimum order: 1 each. See page B387 for color chart.

Designs Are Limitless

- **Let CRL Create Your Next Custom Infill Panel or Send Us Your Design to Work From**







CRL's TRUMATIC L3030 CO_2 Laser Cutting System

CRL Aluminum Railing Small Showroom Displays

- Great for Showrooms or Trade Shows
- Powder Painted in Seven Standard Colors
- Other Colors Available on Request

These Small Displays are ideal for use in showrooms and at trade shows. Displays come complete with 1/4" (6 mm) clear tempered glass or aluminum pickets, and can be supplied with or without a wood base. The standard finish for our Railing Displays is Sky White, or you can specify one of our other standard colors (see below) when ordering. Small Displays can ship via U.P.S.

SMALL WHITE FINISH RAILING DISPLAY WITH WOOD BASE

GLASS DISPLAY CAT. NO.	PICKET DISPLAY CAT. NO.	BASE MEASURES	RAILING SERIES
ARS1S	ARS1PS	30" x 12" (762 x 305 mm)	100 Series
ARS2S	ARS2PS	30" x 12" (762 x 305 mm)	200 Series
ARS3S	ARS3PS	30" x 12" (762 x 305 mm)	300 Series
ARS35S	ARS35PS	30" x 12" (762 x 305 mm)	350 Series
ARS4S	ARS4PS	30" x 12" (762 x 305 mm)	400 Series

Minimum order: 1 each.

SMALL WHITE FINISH RAILING DISPLAY WITHOUT WOOD BASE

GLASS DISPLAY CAT. NO.	PICKET DISPLAY CAT. NO.	APPROXIMATE SIZE	RAILING SERIES
ARS1SN	ARS1PSN	24" (610 mm) Square	100 Series
ARS2SN	ARS2PSN	24" (610 mm) Square	200 Series
ARS3SN	ARS3PSN	24" (610 mm) Square	300 Series
ARS35SN	ARS35PSN	24" (610 mm) Square	350 Series
ARS4SN	ARS4PSN	24" (610 mm) Square	400 Series

Minimum order: 1 each.

CRL Aluminum Railing Large Showroom Displays

- Powder Painted in Seven Standard Colors
- Other Colors Available on Request
- Great for Showrooms or Trade Shows

These Large Displays are ideal for use in showrooms and at trade shows. Displays come complete with 1/4" (6 mm) clear tempered glass or aluminum pickets fully assembled, and can be supplied with or without a wood base. The standard finish for our Railing Displays is Sky White, or you can specify one of our other standard colors (see below) when ordering. Large Displays are crated and must ship via common carrier.

LARGE WHITE FINISH RAILING DISPLAY WITH WOOD BASE

GLASS DISPLAY CAT. NO.	PICKET DISPLAY CAT. NO.	BASE MEASURES	RAILING SERIES
ARS1L	ARS1PL	48" x 24" (1219 x 610 mm)	100 Series
ARS2L	ARS2PL	48" x 24" (1219 x 610 mm)	200 Series
ARS3L	ARS3PL	48" x 24" (1219 x 610 mm)	300 Series
ARS35L	ARS35PL	48" x 24" (1219 x 610 mm)	350 Series
ARS4L	ARS4PL	48" x 24" (1219 x 610 mm)	400 Series

Minimum order: 1 each. Must ship common carrier.

LARGE WHITE FINISH RAILING DISPLAY WITHOUT WOOD BASE

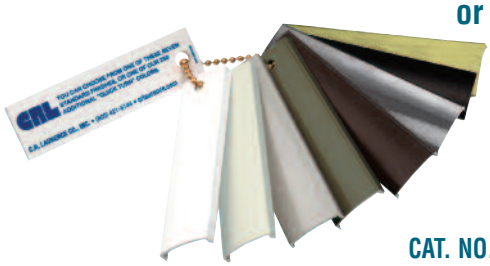
GLASS DISPLAY CAT. NO.	PICKET DISPLAY CAT. NO.	APPROXIMATE SIZE	RAILING SERIES
ARS1LN	ARS1PLN	36" (914 mm) Square	100 Series
ARS2LN	ARS2PLN	36" (914 mm) Square	200 Series
ARS3LN	ARS3PLN	36" (914 mm) Square	300 Series
ARS35LN	ARS35PLN	36" (914 mm) Square	350 Series
ARS4LN	ARS4PLN	36" (914 mm) Square	400 Series

Minimum order: 1 each. Must ship common carrier.

CRL ARS Standard Color Chip Chain

- Contains Color Chips of All Seven Standard Colors, Plus Unfinished Chromate
- Ideal for Showroom Display or for Field Sales Calls

The SCCS8 Color Chip Chain contains Color Chips of the seven most popular colors, plus unfinished chromate used for windscreens and railings. Convenient to take along on field sales calls. Chips for custom colors are also available. The minimum order is one each.



CAT. NO. SCCS8

STANDARD COLORS

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.

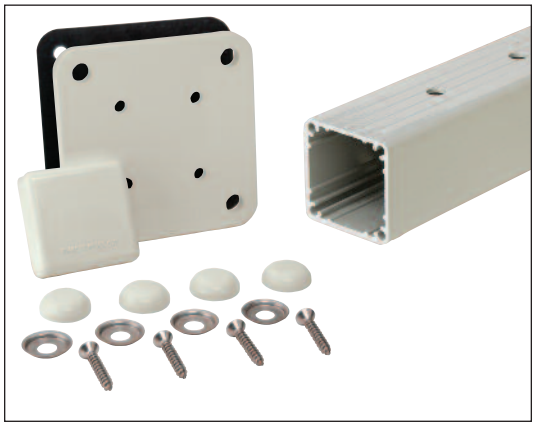
CRL Surface Mount Cable End Post Kits for 200, 300, 350, and 400 Series Rails

new

- End Post Kits Prepped for 1/8" (3.2 mm) Cable Tensioning Receiver Ends or Push-Lock Ends
- 2-3/8" (60.3 mm) Square
- Two Standard Post Heights
- Complete With Base Plate, Moisture Barrier Gasket, Stainless Washers, Screws and Bolt Cover Buttons
- Seven Standard Colors Plus Unfinished Chromate
- 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 unfinished chromate. Custom heights and colors are also available.

Standard Kits Include:



NOTE: Cable Grommets sold separately (see page B391)

STANDARD COLORS

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 when ordering. Posts can be trimmed in the field to compensate for uneven surfaces.

3" (76.2 mm) Center-to-Center Cable Spacing for Tensioning Receivers and Pull Lock Ends

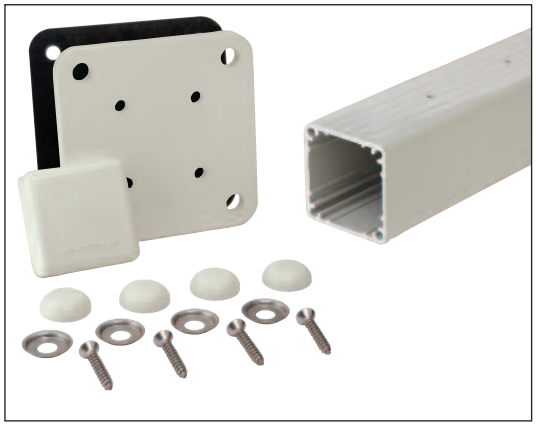
CRL Surface Mount Cable Center Post Kits for 200, 300, 350, and 400 Series Rails

new

- Center Post Kits Prepped for 1/8" (3.2 mm) Cable
- 2-3/8" (60.3 mm) Square
- Two Standard Post Heights
- Complete With Base Plate, Moisture Barrier Gasket, Stainless Washers, Screws, and Bolt Cover Buttons
- Seven Standard Colors Plus Unfinished Chromate
- 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 unfinished chromate. Custom heights and colors are also available.

Standard Kits Include:



NOTE: Cable Grommets sold separately (see page B391)

STANDARD COLORS

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 when ordering. Posts can be trimmed in the field to compensate for uneven surfaces.

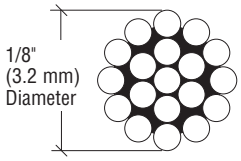
3" (76.2 mm) Center-to-Center Cable Spacing with 3/16" (4.7 mm) Dia. Holes for 1/8" (3.2 mm) Cable

ARS Stainless Steel Cable Infills

- **Stainless Cable Infills are the Perfect Choice for Stairways and Decks When View is Important**

CRL 1/8" Stainless Steel Cable

- **For Use With All CRL Aluminum Railing Systems**
- **1 x 19 Type 316 Stainless Steel Construction Cable**
- **1/8" (3.2 mm) Diameter**
- **Uncoated and Low Maintenance**



CRL 1/8" Diameter 1 x 19 Construction Stainless Steel Cable is designed with 19 separate wires twisted into a single strand.

See page B507 for Cable Installation Tools

CRL Stainless Steel Cable is an infill option for any of our railing systems. Recommended spacing between cables is 3" (76.2 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).

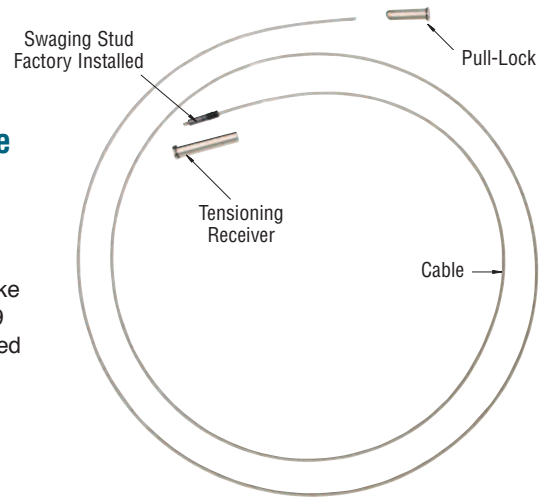
1/8" (3.2 MM) STAINLESS STEEL CABLE

CAT. NO.	ROLL LENGTH
CBL18	250' (76.2 m)

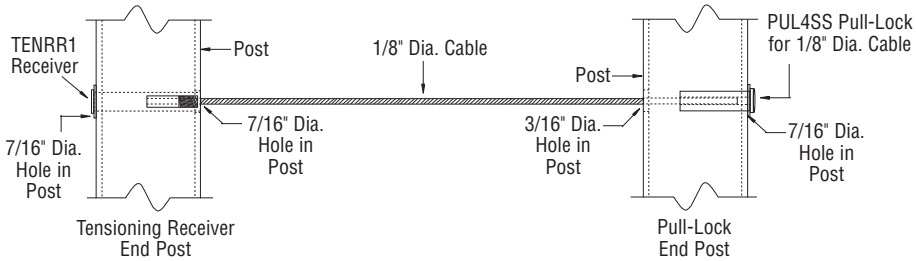
Minimum order: 1 roll.

CRL 1/8" Pre-Cut Stainless Steel Cable Kits

- **Four Pre-Cut Lengths, As Well As Custom Lengths Available**
- **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" (3.2 mm) diameter 1 x 19 Type 316 Stainless Steel Cable, one Cat. No. SWGST1 Swaging Stud factory installed on Cable, one Cat. No. TENRR1 Tensioning Receiver, and one Cat. No. PUL4SS Pull-Lock. Recommended maximum spacing between cables is 3" (76.2 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' (15.2 m) and post spacing is not to exceed 42" (1.06 m) on center.



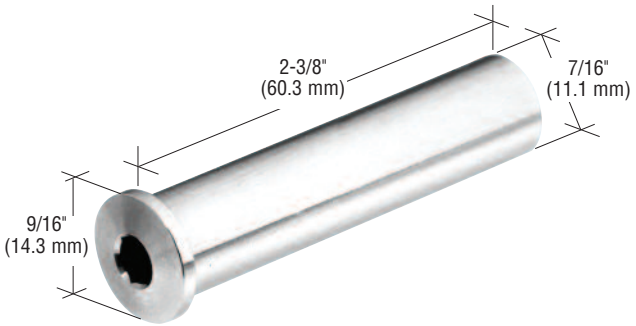
1/8" (3.2 MM) STAINLESS STEEL CABLE KITS

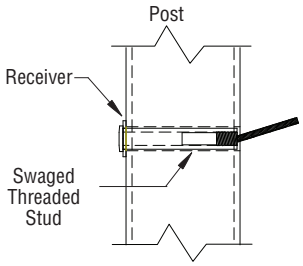
CAT. NO.	LENGTH
CBL188K	8' (2.4 m)
CBL1818K	18' (5.5 m)
CBL1836K	36' (10.9 m)
CBL1851K	51' (15.5 m)
CBL18KC	*Custom Length

Minimum order: 1 each. * Must specify custom length at time of order.

CRL Tensioning Receiver

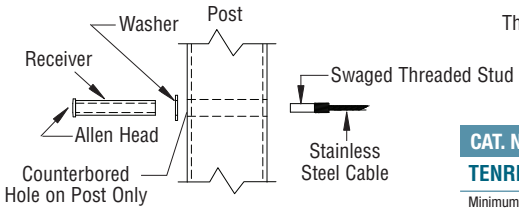
- **Allows 1/8" (3.2 mm) Cable to Be Adjusted Between Spans**
- **Mounts to Aluminum, Wood or Stainless Steel Posts**
- **Type 316 Stainless Steel**





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.

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 1/8" (3.2 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.

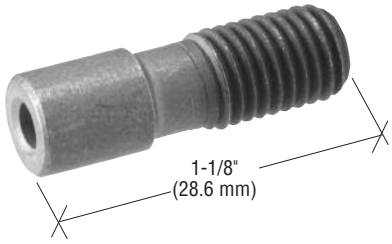


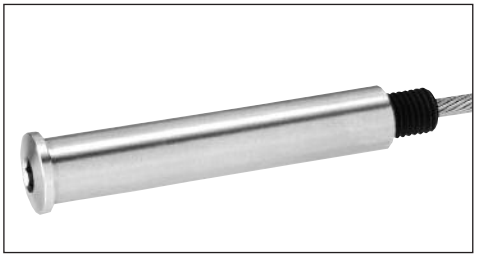
CAT. NO.	FITS CABLE DIAMETER
TENRR1	1/8" (3.2 mm)

Minimum order: 1 each.

CRL Swaging Stud Fitting

- **Secures Our 1 x 19 Type 316 1/8" (3.2 mm) Stainless Steel Cable**
- **Designed for Aluminum, Wood or Stainless Steel Post Applications**





Threads into Cat. No. TENRR1 Tensioning Receiver

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" (3.2 mm) diameter Cable.

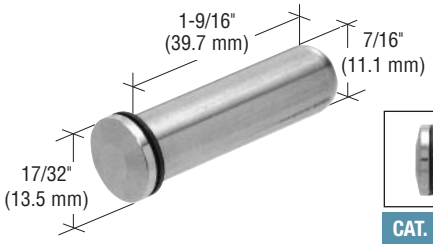
CAT. NO.	FITS CABLE DIAMETER
SWGST1	1/8" (3.2 mm)

Minimum order: 1 each.

CRL Push-Lock Fitting

- **For Use With Our 1 x 19 Type 316 1/8" (3.2 mm) Stainless Steel Cable**

The CRL Push-Lock Fitting is designed to be used on 1/8" (3.2 mm) Cable. When used with an end post 1-1/2" (38.1 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.



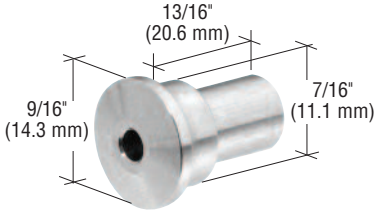
CAT. NO.	FITS CABLE DIAMETER
PL4SS	1/8" (3.2 mm)

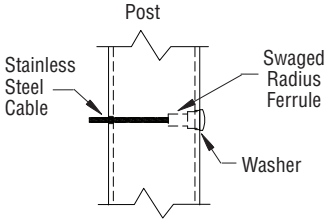
Minimum order: 1 each.

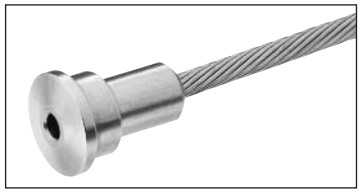
CRL Ferrule Fitting

- **For Use on the Fixed, Non-Tensioning End of Our 1 x 19 Type 316 1/8" (3.2 mm) 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" (3.2 mm) diameter Cable. This Fitting must be installed using a Swager Tool (see page B507).







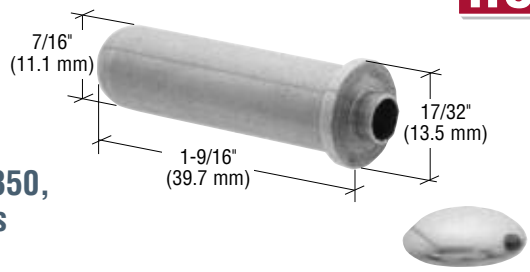
CAT. NO.	FITS CABLE DIAMETER
FXFRL1	1/8" (3.2 mm)

Minimum order: 1 each.

CRL Ultra-tec® Pull-Lock Cable Fittings

new

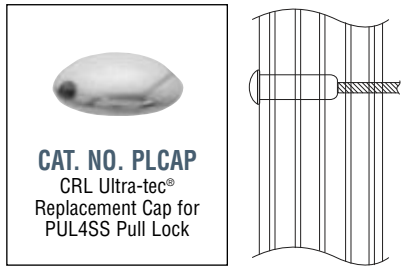
- No Special Field Swaging Equipment Required
- Pull-Lock Fittings Make Installing Cable Easy
- For Use With CRL's 200, 300, 350, and 400 Series Aluminum Rails
- Can Also Be Used With Metal and Wood Products
- 316 Grade Stainless Steel



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 4" Right Angle Grinder or Cutting Wheel. Press on the Stainless Steel Cap to cover the cable's end and you are done.

CAT. NO.	FITS CABLE DIAMETER
PUL4SS	1/8" (3.2 mm)

Minimum order: 1 each.



CAT. NO. PLCAP
CRL Ultra-tec® Replacement Cap for PUL4SS Pull Lock

CRL Ultra-tec® Cable Release Tool

new

Innovative tool that 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" (3.2 mm)

Minimum order: 1 each.

CRL Ultra-tec® Grommet Installation Tool Kit

new

If Cable Grommets are required, CRL's Ultra-tec® Grommet Installation Tool Kit is needed for proper alignment and installation. Simply place grommet over hole, and tap lightly with a hammer.

CAT. NO.	FITS CABLE GROMMETS
CBLGTK1	CBLG4/CBLG5

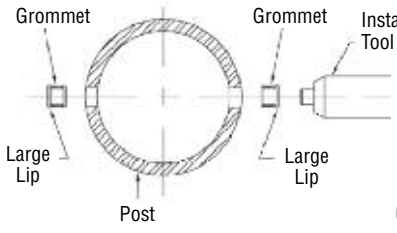
Minimum order: 1 each.

CRL Ultra-tec® Cable Grommets

new

- Grommets Help Prevent Rust in Exterior Applications
- For Use With 1/8" (3.2 mm) Diameter Cable
- Designed for Square, Round, or Rectangular Posts With .120" Wall Thickness
- Made From Black UV Resistant Delrin

CRL Ultra-tec® 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.



Use CRL Ultra-tec® CBLGTK1 Grommet Installation Tool Kit for Installation (Sold Separately, See Above)

CAT. NO.	DESCRIPTION	FITS CABLE DIAMETER
CBLG4	Grommets for Level Rails	1/8" (3.2 mm)
CBLG5	Grommets for Stairway Rails	1/8" (3.2 mm)

Minimum order: 100 each.

CRL ARS ALUMINUM RAILING SYSTEMS

ARS 200 Series Aluminum Railing System With Fascia Mount Posts and Pickets

ARS 200 Series Aluminum Railing System With Glass and Pickets

ARS 200 Series Aluminum Railing System With Fascia Mount Posts and Pickets

ARS 200 Series Aluminum Railing System With Surface Mount Posts and Glass

ARS 200 Series Aluminum Railing System With Fascia Mount Posts, 1-1/2" Custom Hand Rail and 1/8" Cables

CRL ARS ALUMINUM RAILING SYSTEMS

ARS 300 Series Aluminum Railing System With Surface Mount Posts and Glass

ARS 100 Series Aluminum Railing System With Surface Mount Posts and Glass

ARS 100 Series Aluminum Railing System With Core Mount Posts and Pickets

ARS 100 Series Aluminum Railing System With Fascia Mount Posts and Glass

ARS 200 Series Aluminum Railing System With Core Mount Posts and Glass

CRL Standard 4" x 4" Square Surface Mount Post Kits

- 4" (101.6 mm) Square Posts Designed to Work With Our 100, 200, 300, 350, and 400 Series Aluminum Railings
- Use for Center, End or 90 Degree Corners
- Use for Windscreens Too (See Pages B456 to B459)
- Three Different Height Post Kits Available
- Seven Attractive Colors, Plus Unfinished Chromate Available From Stock
- Custom Powder Coat Colors Also Available

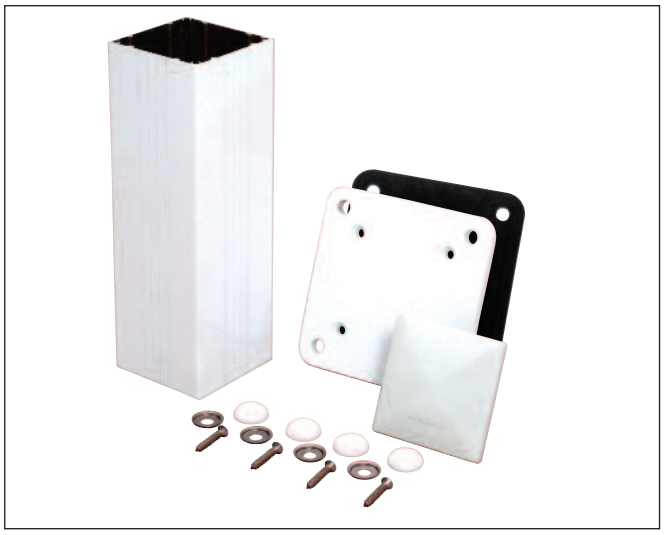
CRL Standard 4" x 4" Aluminum Post Kits come complete with Base Plate (BP6), Moisture Barrier Gasket (BPG3BL), Base Plate Screws (BPS112), Stainless Steel Washers (WSHR1), Color Match Bolt Cover Buttons (BTN1), and Post Cap (PC4). See page B318 for Anchors or Lag Bolts for mounting to the substrate. Post Kits are available in your choice of three heights and seven attractive colors, plus unfinished chromate. Custom heights and colors are also available.

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 powder coat color when ordering.

- Complete With Post, Top Cap, Base Plate, Moisture Barrier Gasket, Screws, Stainless Washers, and Bolt Cover Buttons

STANDARD KITS INCLUDE:



STANDARD COLORS

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.

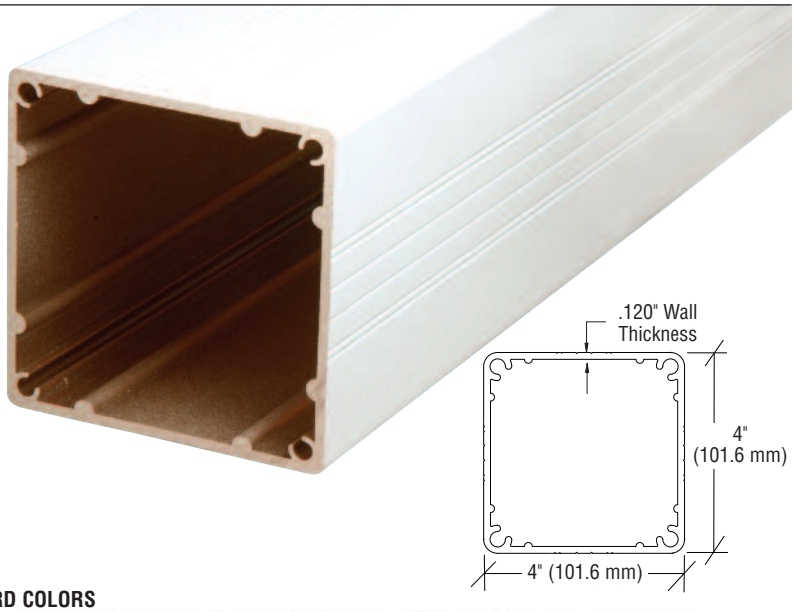
CRL Standard 4" x 4" Square Posts Only

- 4" (101.6 mm) Square Post Designed to Work With Our 100, 200, 300, 350, and 400 Series Aluminum Railings
- Use for Center, End or 90 Degree Corners
- Seven Attractive Colors, Plus Unfinished Chromate Available From Stock
- Custom Powder Coat Colors Also Available

CRL Standard 4" x 4" Aluminum Square Posts are available in your choice of three heights and seven attractive colors. 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. Posts are designed to mount onto concrete, wood, steel, and other substrates.

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 powder coat color when ordering.
Must ship common carrier.



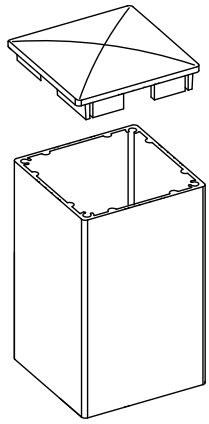
STANDARD COLORS

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 4" x 4" Post Caps

- Seven Standard Colors, Plus Unfinished Chromate
- 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	Chromate

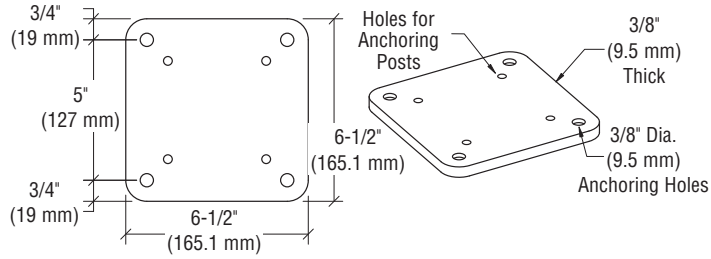
Minimum order: 1 each. See page B394 for color chart.

CRL 4" x 4" Aluminum Post Caps are designed to fit our Standard 4" x 4" Posts. They protect the exposed top edge from weather and debris. Caps install easily with CRL 95C Silicone (see page B154).

CRL 6-1/2" Square Base Plates

- For Use With Our 4" x 4" Vertical Posts

This Square Base Plate screws into our 4" x 4" 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 B381). Use Stainless Steel Washers (WSHR1) and Color Match Bolt Cover Buttons (BTN1) to add a finished look. One each Moisture Barrier Gasket Cat. No. BPG3BL is included with each Base Plate. See page B382 for Replacement Gaskets.

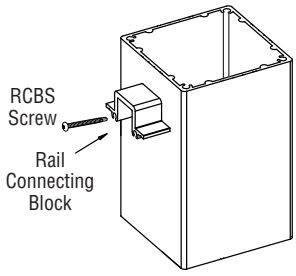


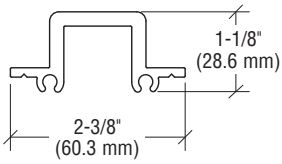
CAT. NO.	COLOR
BP6W	Sky White
BP60W	Oyster White
BP6AGY	Agate Gray
BP6BGY	Beige Gray
BP6BL	Matte Black
BP6BRZ	Matte Bronze
BP6S	Silver Metallic
BP6CRM	Chromate

Minimum order: 1 each. See page B394 for color chart.

CRL Standard Post Rail 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" Vertical Post or a wall. Screw Block into index grooves on post using Cat. No. RCBS Rail Connecting Block Screws (see page B375). 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.

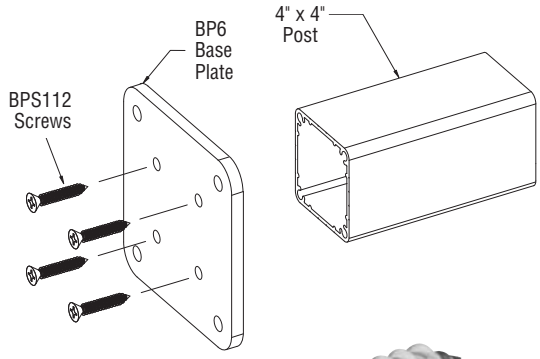
CAT. NO.	LENGTH
RCB4	1" (25.4 mm)
RCB412	12" (305 mm)
RCB4241	241" (6.12 m)#

Minimum order: 1 each. # Must ship common carrier.

CRL Base Plate Screws

- Stainless Steel Screws for Use With All Square Base Plates

The CRL Base Plate Screw is designed to secure Base Plates into the raceways of Vertical Posts. Phillips Head Screw fits flush beneath the Base Plate.



CAT. NO.	DESCRIPTION	SIZE
BPS112	Base Plate Screw	#14 x 1-1/2" (38.1 mm)

Minimum order: 50 each. Must be ordered in increments of 50.

CRL 4" x 4" Sirius Series Decorative Post Caps

- For Use With CRL's 4" x 4" Aluminum Post Kits
- Seven Standard Colors, Plus Unfinished Chromate to Match CRL's ARS Railing Systems
- Custom Powder Coated Finishes Also Available
- Easy to Install
- Great for Residential Applications

new

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" (101.6 x 101.6 mm) Post Kits. The 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 95C Silicone (see page B154).

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	Chromate

Minimum order: 1 each.

STANDARD COLORS

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" Titan Series Decorative Post Caps

- For Use With CRL's 4" x 4" Aluminum Post Kits
- Seven Standard Colors, Plus Unfinished Chromate to Match CRL's ARS Railing Systems
- Custom Powder Coated Finishes Also Available
- Easy to Install
- Great for Residential Applications

new

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" (101.6 x 101.6 mm) Post Kits. The 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 95C Silicone (see page B154).

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	Chromate

Minimum order: 1 each.

STANDARD COLORS

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 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 Unfinished Chromate
- 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" Vertical Aluminum Posts to give your 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.

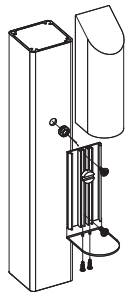
CAT. NO.	COLOR
PCL1W	Sky White
PCL10W	Oyster White
PCL1AGY	Agate Gray
PCL1BGY	Beige Gray
PCL1BL	Matte Black
PCL1BRZ	Matte Bronze
PCL1S	Silver Metallic
PCL1CRM	Chromate

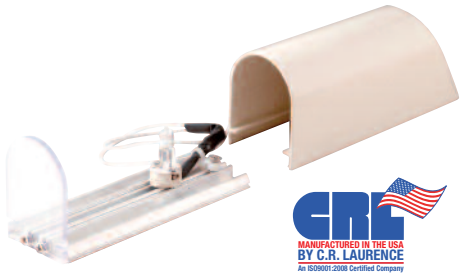
Minimum order: 1 each. See opposite page for color chart.

CRL Post Mounted Decorative Light With Hood

- Gives Your 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 Unfinished Chromate
- 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" Vertical Posts or our 2-3/8" Rectangular Posts. It is not recommended for our 3" Diameter Round Posts. Please consult a local electrician for wiring instructions and power supply.





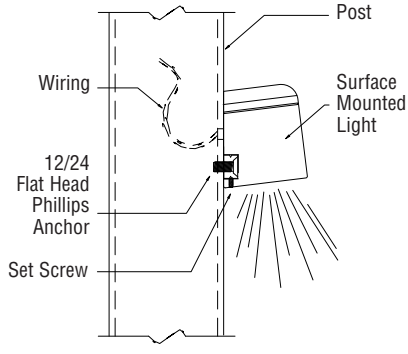
CAT. NO.	COLOR
ACH1W	Sky White
ACH10W	Oyster White
ACH1AGY	Agate Gray
ACH1BGY	Beige Gray
ACH1BL	Matte Black
ACH1BRZ	Matte Bronze
ACH1S	Silver Metallic
ACH1CRM	Chromate

Minimum order: 1 each. See opposite page for color chart.

CRL Post Mounted LED Light

- Gives Your 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" Vertical Posts or 2-3/8" Rectangular Posts to give your 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.



CAT. NO.	DESCRIPTION
LED1C*	Post Mounted LED Light

Minimum order: 1 each. * Please specify color when ordering. See opposite page for color chart.

CRL Kwixset® and Rockite® Expanding Cements

SPEC. DATA MSDS

- Kwixset® for 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

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, brackets, and other fixtures because they will not shrink, crack or dry out.

For Exterior and Interior Applications

For Interior Applications Only

KWIXSET®

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 40ºF (4ºC).

ROCKITE®

CAT. NO.	WEIGHT
ROCK01	1 Pound (.454 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 25ºF (-4ºC).

CRL Usage and Mixing Proportion Chart for Expanding Cement and Water

CEMENT POUNDS	VOLUME OZ.	MILLILITERS	WATER PINTS	FLUID OZ.	MILLILITERS
5 (2.27 kg)	67.6	2000	1-1/2	24	710
10 (4.54 kg)	135.2	4000	3	48	1420
15 (6.80 kg)	202.8	6000	4-1/2	72	2130

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 as 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.

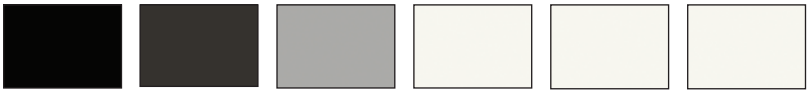
CRL 95C Silicone Building Sealant

SPEC. DATA MSDS

- Excellent Primerless Adhesion to Most Common Construction Substrates
- Excellent Adhesive for Setting Windscreen Posts to Stanchions
- Long Tooling Time, All Temperature Gunning
- Available in Six Colors

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

Available In These Six Colors



Black | Dark Bronze | Gray | Limestone | Precast White | White

COLOR new

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. It is designed for sealing expansion and control joints in 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).

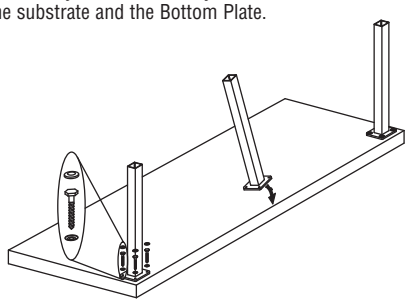
CAT. NO.	COLOR
95CBL	Black
95CDBRZ	Dark Bronze
95CGRY	Gray
95CL	Limestone
95CW	Precast White
95CWHT NEW	White

Minimum order: 1 each. Colors can be combined for quantity pricing. Also available in 2 or 4.5 gallon pails.

Basic Installation Instructions

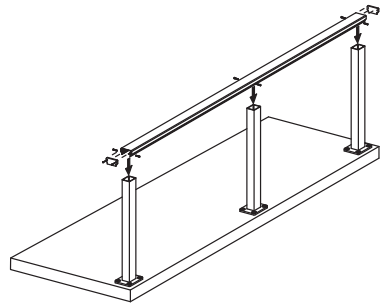
1. Post Installation

Install End and Corner Posts first, then continue with Intermediate Posts. Be sure to place Stainless Steel Washers under the Bolts so that the Bolt Cover Buttons can be attached. Ensure that Posts are plumb and level. **NOTE**: When installing Post on top of concrete, brick, masonry, or stucco, always make sure to install the Moisture Barrier Gasket between the substrate and the Bottom Plate.



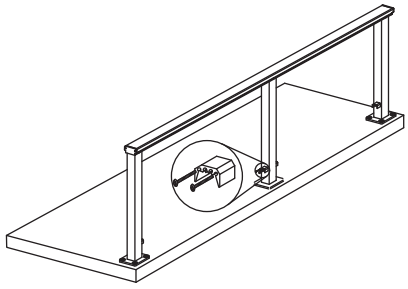
2. Cap Rail Installation

Measure and cut the Cap Rail to length. Attach the Cap Rail to the Posts using Self Tapping Screws. Install the End Caps with provided screws.



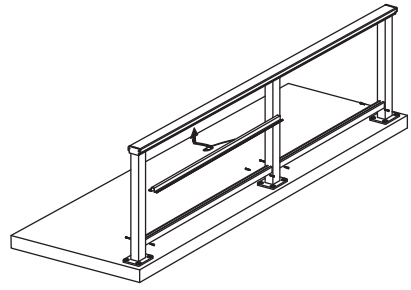
3. Rail Connecting Blocks

Install the Rail Connecting Blocks onto the Posts using the Self Tapping Screws provided. These Blocks are used to support the Bottom Rail.



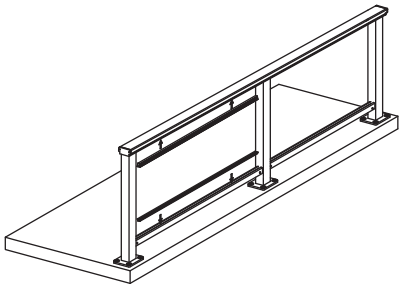
4. Top Rail Infill and Bottom Rail

Cut Top Rail Infill and Bottom Rail to length. Snap fit the Top Rail Infill into the Top Cap Rail. Mount the Bottom Rail onto the Blocks and secure with Tek Screws.



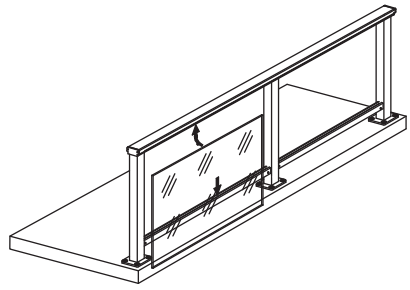
5. Vinyl Installation (Glass Panels Only)

Snap fit Top Vinyl into Top Cap Rail insert. Snap fit Bottom Vinyl into Bottom Rail.



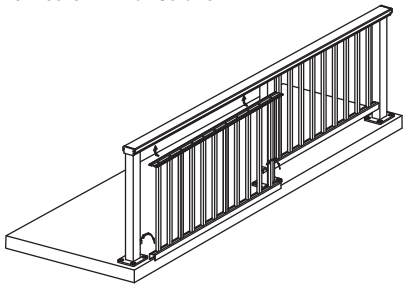
6. Glass Installation (Glass Panels Only)

Push Glass up into the Vinyl. Align Glass with Bottom Vinyl and push down into Vinyl. Align Glass horizontally.



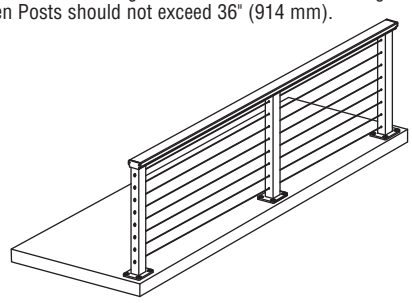
7. Picket Installation

Follow above steps 1, 2, and 3 only. Screw Pickets to the Top Cap Infill and the Bottom Rail. Snap fit top into Top Rail and install Bottom Rail over Blocks. Secure Bottom Rail to Blocks with Tek Screws.



8. Cable Installation

Drill holes in Posts a maximum of 3" (76.2 mm) on center. Insert Cables through holes. Install Tensioning Device on end of Cable and tighten. Distance between Posts should not exceed 36" (914 mm).



C.R. Laurence Co.

ARS Quote/Order Request Form

Fax Completed Checklist to C.R. Laurence Technical Sales at (800) 587-7501 in the U.S., or (323) 584-5289 (Canada and International). Then call to discuss: (800) 421-6144 (U.S.), (877) 421-6144 (Canada), or (323) 588-1281 (International). Ask for Extension 7730. This form is also available online at **crlaurence.com**.

Company Name _____ Phone # _____

Contact _____ Fax # _____

Job Name _____ Date _____

When you are ready to order, utilize this form to assist you in covering the details required to complete an Aluminum Railing installation. Going through this exercise should prevent you from overlooking any details related to your installation.

IMPORTANT: Depending on the complexity of your project, one or more of the following may be required to accurately order: sketches or drawings of your particular application with dimensions; printed architectural drawings or CAD files; photos of job site conditions (digital images are preferable).
NOTE: A final sign off is required prior to any custom fabrication.

QUANTITY

- ❑ Posts Needed _____

TOP RAIL

- ❑ Series 100, Small Round Top
- ❑ Series 200, Flat Top
- ❑ Series 300, Large Round Top
- ❑ Series 350, Oval Top
- ❑ Series 400, Wide Top

RAIL HEIGHT (AT TOP)

- ❑ 36" (914 mm)
- ❑ 42" (1067 mm)
- ❑ 48" (1219 mm)
- ❑ Other (Specify) _____

POST SIZE

- ❑ 2-3/8" x 2-3/8" (60.3 x 60.3 mm)
- ❑ 4" x 4" (101.6 x 101.6 mm)

DECK RAIL INFILL

- ❑ Glass (Thickness) _____
- ❑ Picket ❑ Round ❑ Rectangular
- ❑ Stainless Steel Cable
- ❑ Other (Specify) _____

STAIR RAIL INFILL

- ❑ Glass (Thickness) _____
- ❑ Picket ❑ Round ❑ Rectangular
- ❑ Stainless Steel Cable
- ❑ Other (Specify) _____

(Glass not supplied by CRL)

POST ATTACHMENT

- ❑ Surface Mount (Top of Deck Surface)
- ❑ Core Mount
- ❑ Fascia Mount
- ❑ Other (Specify) _____

SUBSTRATE

- ❑ Wood
- ❑ Concrete
- ❑ Waterproof
- ❑ Other (Specify) _____

FLOOR CONDITION

- ❑ Flat
- ❑ Sloped (Degrees) _____

COLOR

❑ Sky White ❑ Oyster White ❑ Agate Gray ❑ Beige Gray ❑ Matte Black ❑ Matte Bronze ❑ Silver Metallic ❑ Chromate

❑ RAL Color (Specify) _____

❑ Special (Specify) _____

LAYOUT GRID TO SKETCH DESIGN

CRL ARS ALUMINUM RAILING SYSTEMS

ARS 200 Series Aluminum Railing System With Custom Textured Glass Infill

ARS 300 Series Aluminum Railing System With Pickets

ARS 350 Series Aluminum Railing System With Pickets and Double Horizontal Mid Rail

ARS Custom Aluminum Railing System With 3/8" Glass Infill

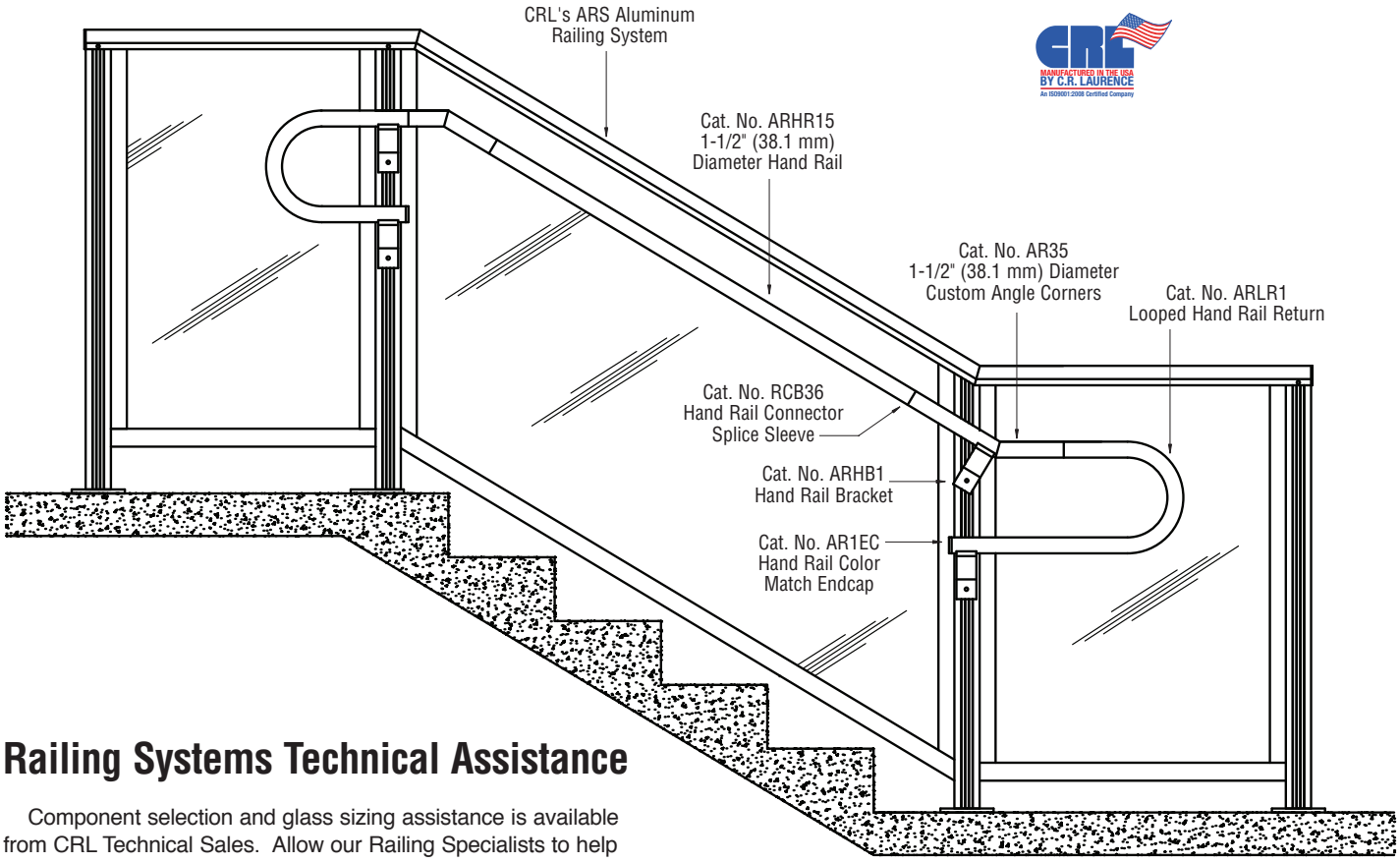
ARS 200 Series Aluminum Railing System With Glass Infill

CRL 1-1/2" (38.1 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 Unfinished Chromate
- Easy to Install
- 6005 Alloy 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 unfinished chromate 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



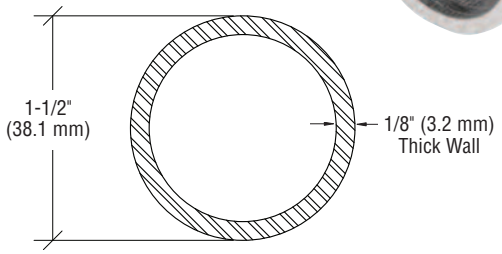
Railing Systems Technical Assistance

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 e-mail from the **crlaurence.com** home page. Click on Contact Us, and then click on Technical Sales for Railing Products.

CRL Quick Connect 1-1/2" (38.1 mm) Diameter Aluminum Hand Rail

- **Seven Standard Powder Coated Finishes, Plus Unfinished Chromate**
- **20'-1" (6.12 m) Long Stock Lengths**
- **6005 Alloy Aluminum/T5 Temper**

CRL's 1-1/2" (38.1 mm) Diameter Hand Rail is sold in 20'-1" (6.12 m) lengths and is available in seven standard powder coated finishes, plus unfinished chromate. Custom finishes, lengths, and special fabrication is also available. Contact CRL Technical Sales for more information.



241" (6.12 M) ALUMINUM HAND RAIL TUBING

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	Chromate

Minimum order: 1 each. Must ship via common carrier.

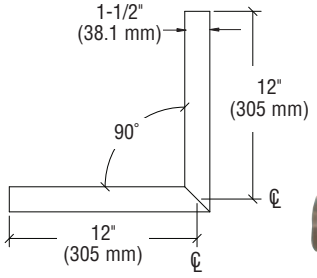
STANDARD COLORS

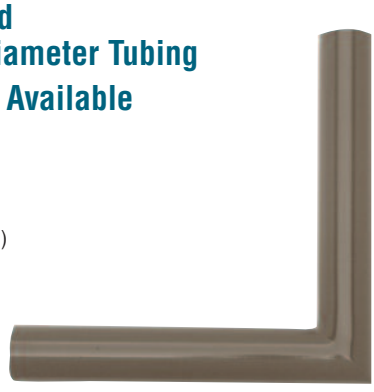
Colors shown are representative only, and may vary slightly from actual gloss, color, and texture. If color match is critical, please contact Technical Sales for additional information.

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

- **Seven Standard Colors, Plus Unfinished Chromate**
- **Ready to Install**
- **Welded and Finished 1-1/2" (38.1 mm) Diameter Tubing**
- **Custom Angles Also Available**





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 handrail together (see page B404).

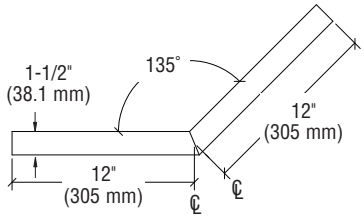
90 DEGREE CORNERS

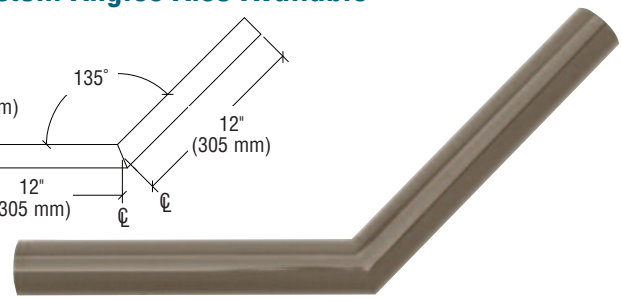
CAT. NO.	COLOR
AR90W	Sky White
AR900W	Oyster White
AR90AGY	Agate Gray
AR90BGY	Beige Gray
AR90BL	Matte Black
AR90BRZ	Matte Bronze
AR90S	Silver Metallic
AR90CRM	Chromate

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

CRL Quick Connect 135 Degree Corner

- **Seven Standard Colors, Plus Unfinished Chromate**
- **Ready to Install**
- **Welded and Finished 1-1/2" (38.1 mm) Diameter Tubing**
- **Custom Angles Also Available**





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 handrail together (see page B404).

135 DEGREE CORNERS

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	Chromate

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

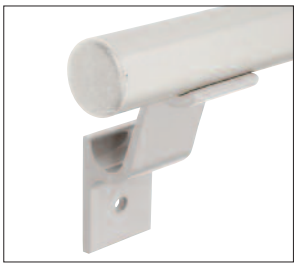
CRL Quick Connect Aluminum Hand Rail Bracket

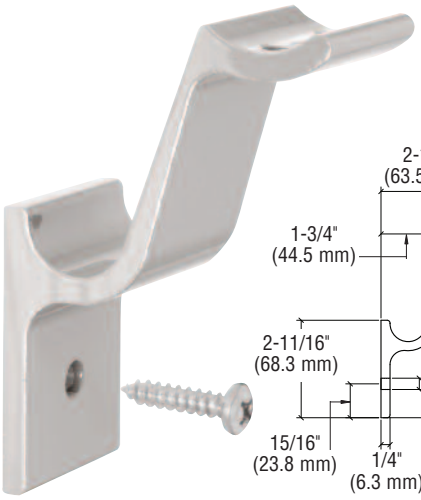
- Seven Standard Powder Coated Finishes, Plus Unfinished Chromate
- For 1-1/2" (38.1 mm) Hand Rail Tubing
- 6005 Alloy Aluminum/T5 Temper
- Ready to Install

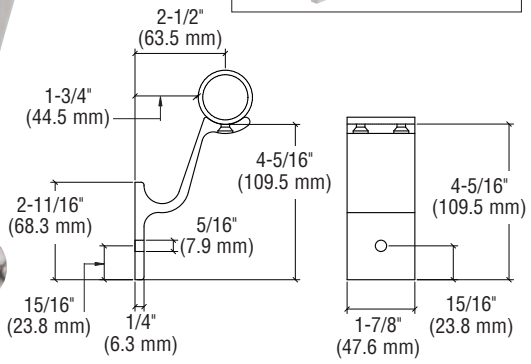
CRL Quick Connect Aluminum Hand Rail Brackets are available in seven standard colors for 1-1/2" (38.1 mm) diameter hand rail tubing. Brackets are individually packed with one #14 x 3/4" (19 mm) self drilling stainless steel attachment screw.

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	Chromate

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







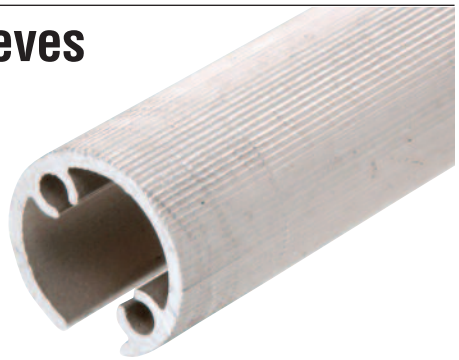
CRL Quick Connect Stabilizing Aluminum Sleeves

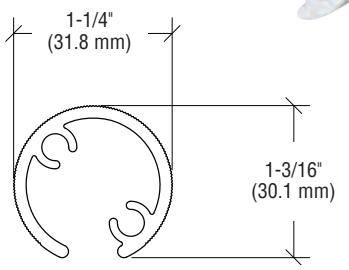
- Used to Stabilize End Sections of 1-1/2" (38.1 mm) Hand Rail Diameter Tubing
- Provides Proper Alignment at Splices
- 6005 Alloy Aluminum/T5 Temper

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 handrail into a wall or post by anchoring the aluminum sleeve prior to sleeving the handrail into place. Use CRL Cat. No. RCBS #10 x 2" (51 mm) screws for wall mount conditions. Use of our Cat. No. 32629 Metal Contact Cement (see page B337) is required to achieve a secure and permanent bond.

CAT. NO.	MATERIAL	SIZE
RCB3	Mill Aluminum	1" (25.4 mm)
RCB36	Mill Aluminum	6" (152.4 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.





CRL Quick Connect Color Match End Cap

- Seven Standard Colors Available, Plus Unfinished Chromate
- For Use With 1-1/2" (38.1 mm) Diameter Tubing
- 6005 Alloy Aluminum/T5 Temper
- Snap-On Fit

CRL Color Match End Caps are designed to easily pressure fit into the ends of 1-1/2" (38.1 mm) diameter tubing. No silicone or contact cement is required during installation.

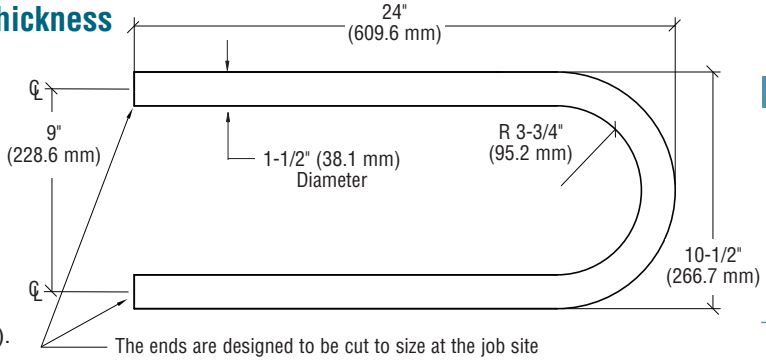
CAT. NO.	COLOR
AR1ECW	Sky White
AR1EC0W	Oyster White
AR1ECAGY	Agate Gray
AR1ECBGY	Beige Gray
AR1ECBL	Matte Black
AR1ECBRZ	Matte Bronze
AR1ECS	Silver Metallic
AR1ECCRM	Chromate

Minimum order: 1 each. See page XXX for color chart.

CRL Quick Connect Looped Hand Rail Return

- Seven Standard Colors Available, Plus Unfinished Chromate
- Custom Sizes and Colors Also Available
- Use With 1-1/2" (38.1 mm) Diameter Tubing
- 1/8" (3.2 mm) Wall Thickness

Each 1-1/2" (38.1 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 page B404).



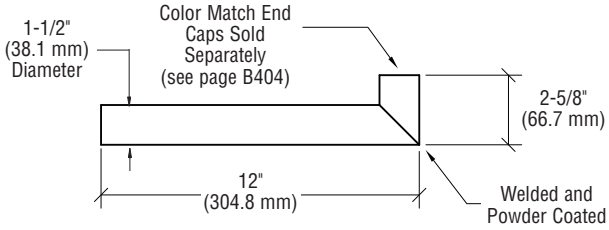
CAT. NO.	COLOR
ARLR1W	Sky White
ARLR10W	Oyster White
ARLR1AGY	Agate Gray
ARLR1BGY	Beige Gray
ARLR1BL	Matte Black
ARLR1BRZ	Matte Bronze
ARLR1S	Silver Metallic
ARLR1CRM	Chromate

Minimum order: 1 each. All Railing Returns can be combined for quantity pricing. See page B403 for color chart.

CRL Quick Connect Wall Hand Rail Return

- Seven Standard Colors Available, Plus Unfinished Chromate
- Use With 1-1/2" (38.1 mm) Diameter Tubing
- 1/8" (3.2 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 part # RCB36 connector splices for joining hand rail together (see page B404).



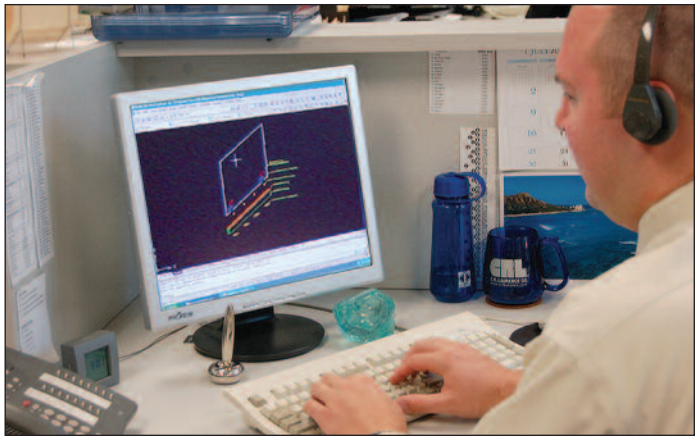
CAT. NO.	COLOR
ARWR1W	Sky White
ARWR10W	Oyster White
ARWR1AGY	Agate Gray
ARWR1BGY	Beige Gray
ARWR1BL	Matte Black
ARWR1BRZ	Matte Bronze
ARWR1S	Silver Metallic
ARWR1CRM	Chromate

Minimum order: 1 each. All Railing Returns can be combined for quantity pricing. See page B403 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 e-mail requests for quotes or product information from the **crlaurence.com** home page. Click on Contact Us, and then click on Technical Sales for Railing Products.



CRL ARS ALUMINUM RAILING SYSTEMS

ARS 350 Series Aluminum Railing System With Surface Mount Posts and Glass

ARS 300 Series Aluminum Railing System With Surface Mount Posts and Glass

ARS 200 Series Aluminum Railing System With Fascia Mount Posts and Pickets

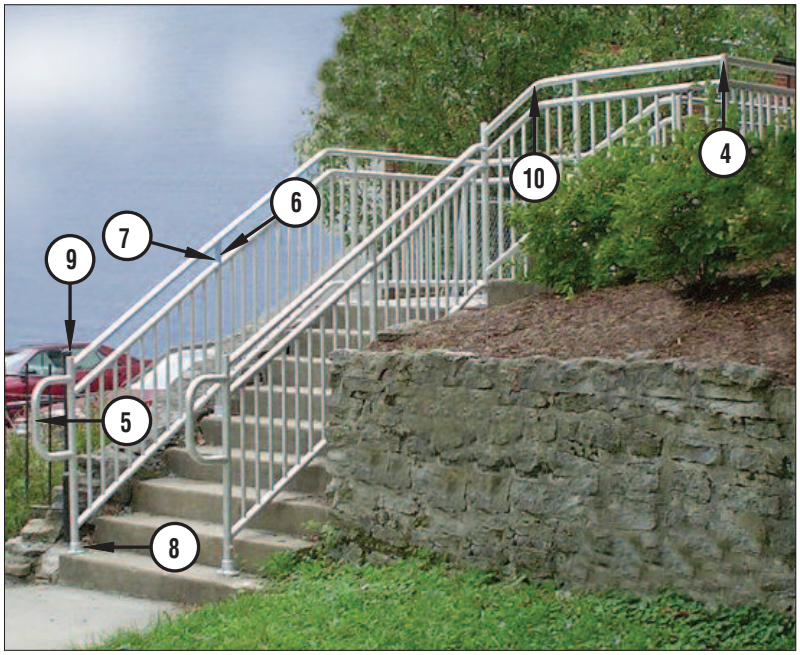
ARS 100 Series Aluminum Railing System With Fascia Mount Posts and Glass

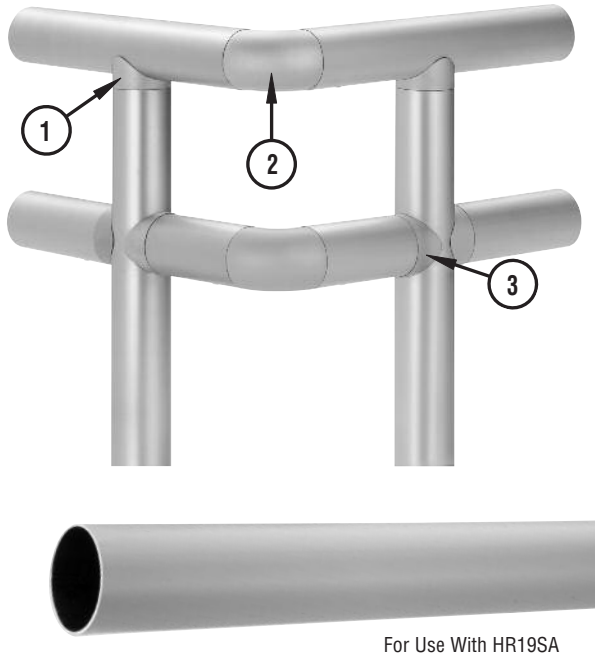
CRL Aluminum Component Railing System (ACRS)

- **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 by Special Order**
- **Component Selection Assistance Available to Make Ordering Simple**

The CRL Aluminum Component Railing System (ACRS) utilizes 1-1/2" Schedule 40 Aluminum Pipe with a 1.9" (48.3 mm) outside diameter and .145" (3.68 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 the need of 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 Use With HR19SA Satin Anodized Tubing
(See page B408)

ACRS Post Railing Components Used in the Typical Installation Shown Above

①	**A19STA**	Straight Tee Adaptor - Page B411
②	**A1990E**	90 Degree Elbow - Page B409
③	**A19CA**	Cross Adaptor - Page B412
④	**A19CPA**	Corner Post Adaptor - Page B412
⑤	**A19EL**	End Loop - Page B408
⑥	**A190T32**	Obtuse Angled Tee Adaptor - Page B411
⑦	**A19AT32**	Acute Angled Tee Adaptor - Page B411
⑧	**A19FF**	Floor Flange - B414
⑨	**A19FEC**	End Cap - Page B409
⑩	**A19ABN32**	Tangent Bend - Page B410

NOTE: Consult local buildings codes. Infills may be required in certain applications. See pages B279 to B285 for our complete line of Z-Series Glass Clamps to facilitate your needs.

Component Railing System Assistance

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 e-mail from the **crlaurence.com** home page. Click on Contact Us, and then click on Technical Sales for Railing Products.

CRL Hand Railing Tubing

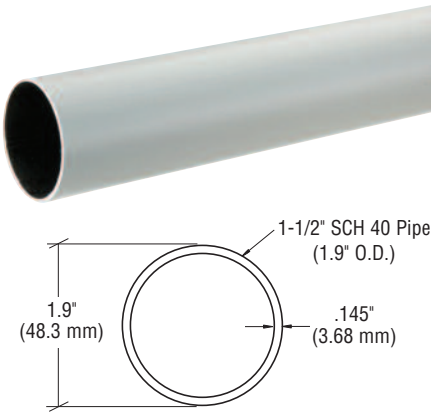
- **Ready to Install**
- **Requires End Caps, Splice Couplings, or Adaptors (Not Included)**

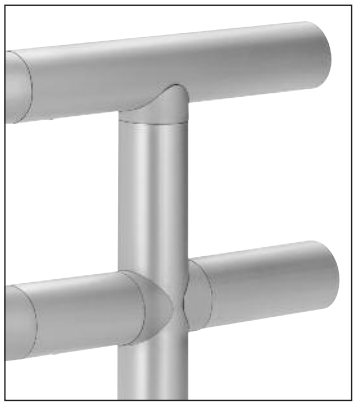
All CRL Hand Railing Tubing is formed using precision tooling to maintain uniform diameters, allowing for smooth hairline transitions at splices and end caps. Wall thickness is .145" (3.68 mm).

1.9" (48.3 MM) DIAMETER HAND RAILING TUBING

CAT. NO.	FINISH	LENGTH
HR19SA	Satin Anodized	240" (6.09 m)

Minimum order: 1 each. All Hand Rail Tubing can be combined for quantity pricing. Must ship common carrier.





CRL ACRS Wall Return

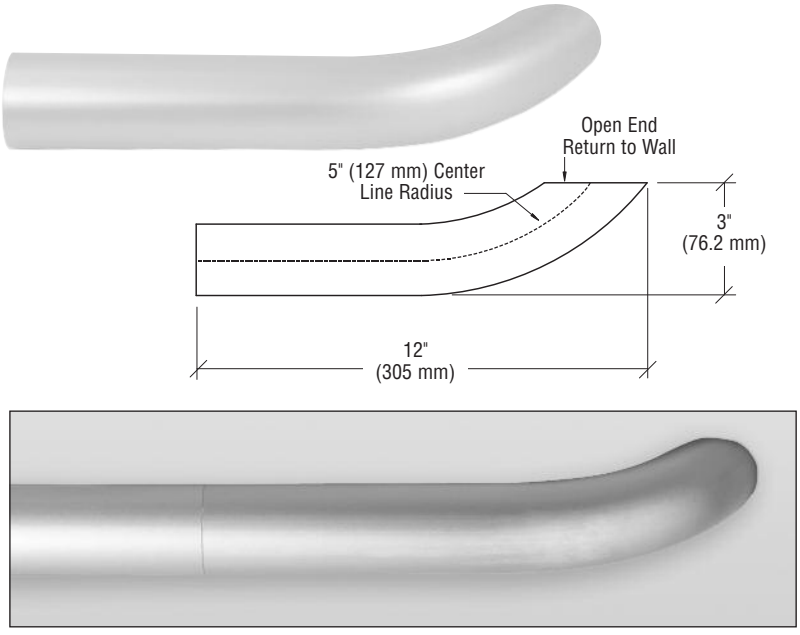
- **Ready to Install**
- **Satin Anodized Finish**
- **Powder Coat Finishes Available on Special Order**

The CRL ACRS Wall Return is made from 1-1/2" Schedule 40 Pipe and is used to make a smooth radius return back to a wall when terminating a hand rail. It attaches to 1-1/2" Schedule 40 Aluminum Pipe using Cat. No. A19SC Splice Coupling, giving you a clean, smooth, and easy to assemble connection.

NOTE: Splice Couplings must be ordered separately (see page B410).

CAT. NO.	FINISH
A19WR	Satin Anodized

Minimum order: 1 each.



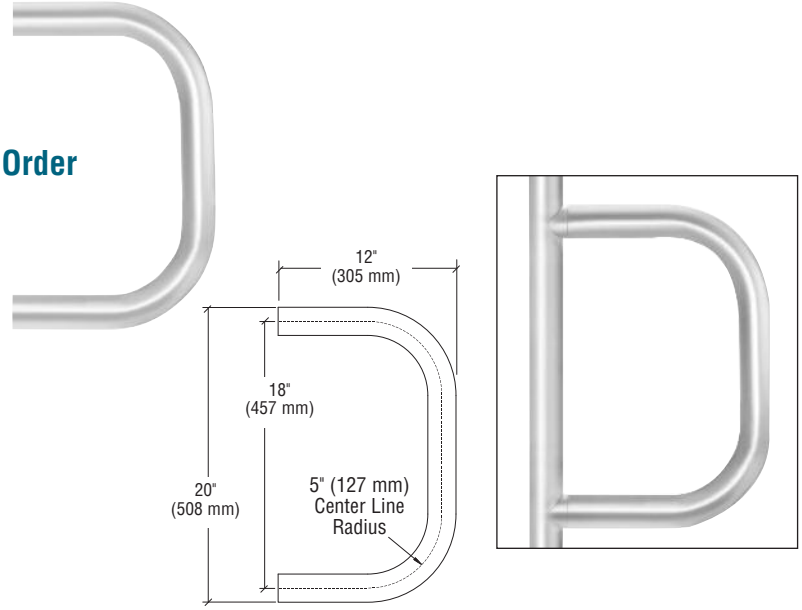
CRL ACRS End Loop

- **Satin Anodized Finish**
- **Powder Coat Finishes Available on Special Order**
- **Custom Loops Available on Special Order**

The CRL ACRS End Loop is made from 1-1/2" Schedule 40 Pipe and is used to complete A.D.A. Code compliant hand rails at the top or bottom of a stair or ramp. Attach both ends to 1-1/2" Schedule 40 Aluminum Pipe using either Splice Couplings or Tee Adaptors, or a combination of both, giving you total flexibility in your design.

NOTE: Splice Couplings (see page B410) or Tee Adaptors (see page B411) must be ordered separately.

CAT. NO.	FINISH
A19EL	Satin Anodized



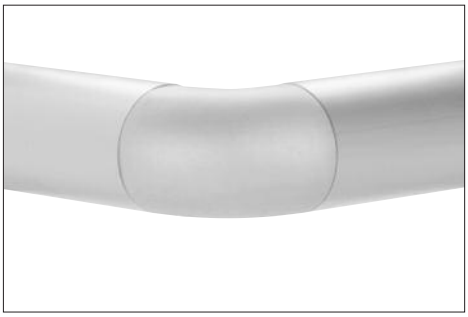
CRL ACRS 90 Degree Elbow

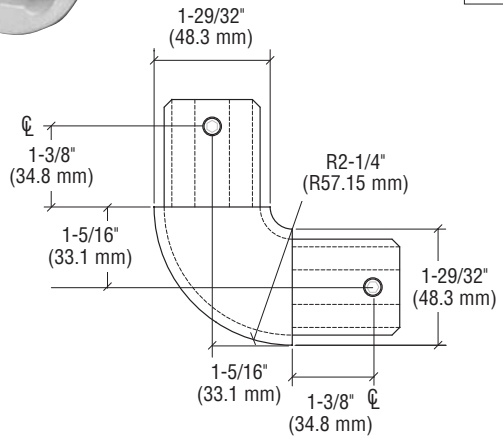
- **Ready to Install**
- **Satin Anodized Finish**
- **Powder Coat Finishes Available on Special Order**

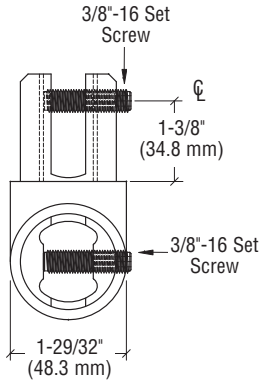
CRL ACRS 90 Degree Elbows are used to make a smooth radius transition around 90 degree corners. 1-1/2" Schedule 40 Aluminum Pipe attaches to both ends of the Elbow using the same split-tang technology as all the ACRS Components, giving you a clean, smooth, and easy to assemble connection. For Drilling Jig see page B414. **NOTE:** Elbows are a cast part, and some color variation from the Pipe to the Elbows will occur.

CAT. NO.	FINISH
A1990E	Satin Anodized

Minimum order: 1 each.







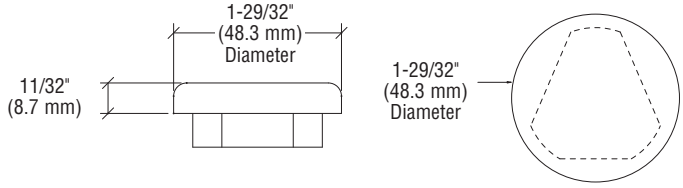
CRL ACRS End Cap

- **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 1-1/2" Schedule 40 Aluminum Pipe, 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.

CAT. NO.	FINISH
A19FEC	Satin Anodized

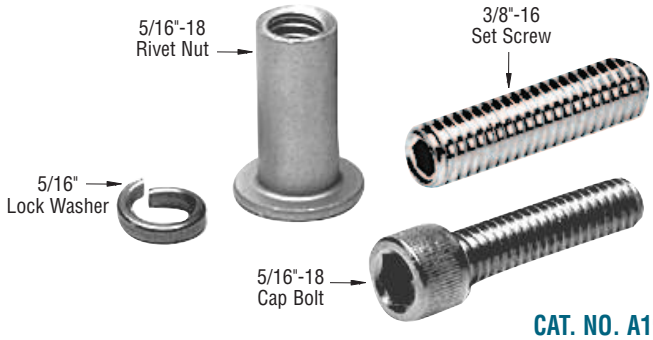
Minimum order: 1 each.



CRL ACRS Replacement Fastener Kit

- **For Securing ACRS Adaptors to 1-1/2" Schedule 40 Pipe**

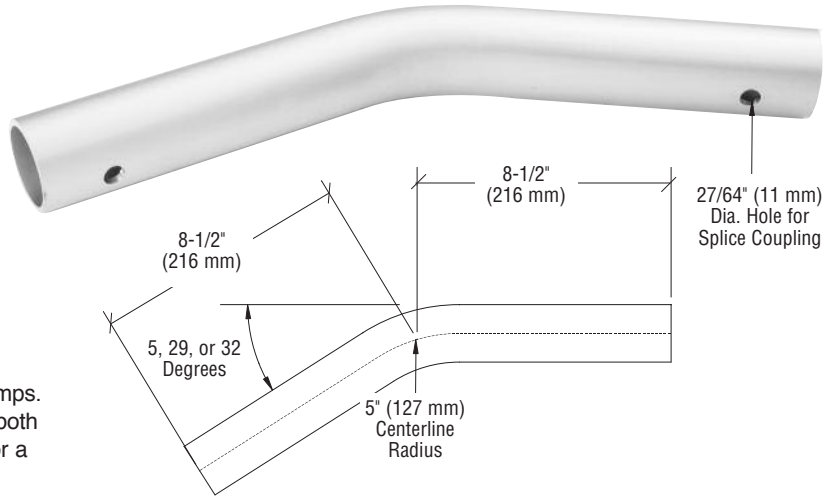
The ACRS Replacement Fastener Kit includes 10 of the following: 3/8"-16 x 1-7/16" (36.5 mm) Stainless Steel Set Screws; 5/16"-18 x 1-1/4" (31.7 mm) Stainless Steel Socket Head Cap Bolts; 5/16" Split Ring Lock Washers; 5/16"-18 Rivet Nuts for use with 1-1/2" Schedule 40 Pipe. Minimum order is one pack.



CAT. NO. A19FKT

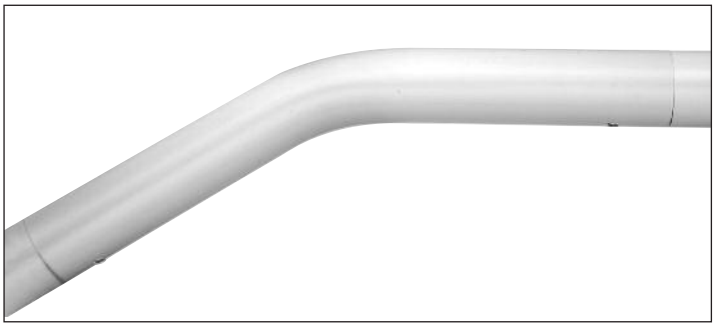
CRL ACRS Tangent Bend

- 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 sloped to level sections of a railing at stairs or ramps. It can attach to 1-1/2" Schedule 40 Aluminum Pipe at both ends, using either Splice Couplings or Tee Adaptors, or a combination of both, giving you total flexibility in your design. Tangent Bend is pre-drilled for Splice Coupling or Tee Adaptor.

NOTE: Splice Couplings (see below) or Tee Adaptors (see page B411) must be ordered separately.



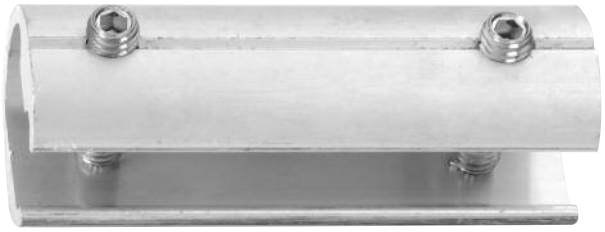
CAT. NO. ACUTE BEND	CAT. NO. OBTUSE BEND	ANGLE	FINISH
A19ABN5	A190BN5	5 Degrees	Satin Anodized
A19ABN29	A190BN29	29 Degrees	Satin Anodized
A19ABN32	A190BN32	32 Degrees	Satin Anodized

Minimum order: 1 each. Can be combined for quantity pricing.

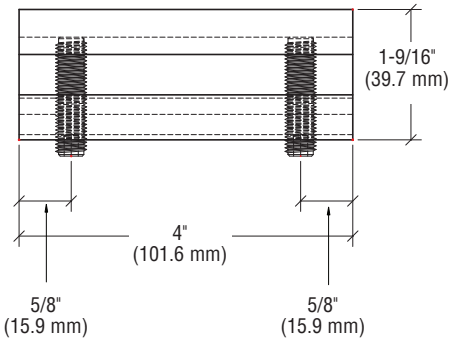
CRL ACRS Splice Coupling

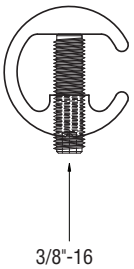
- Strong and Secure
- Easy Installation

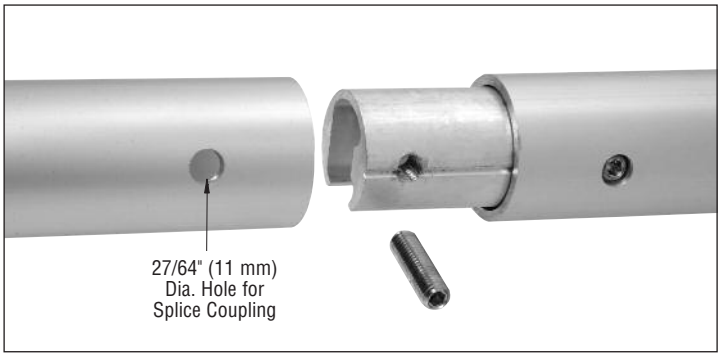
The CRL ACRS Splice Coupling is designed for use with 1-1/2" Schedule 40 Aluminum Pipe. Two 27/64" (11 mm) holes need to be drilled in the pipe to access the set screws to create a strong and secure splice joint. Set screws included. Minimum order is one each.



CAT. NO. A19SC



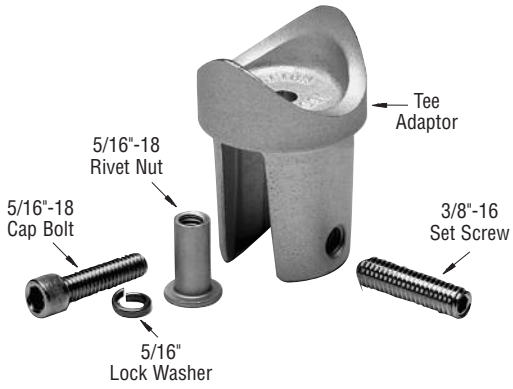


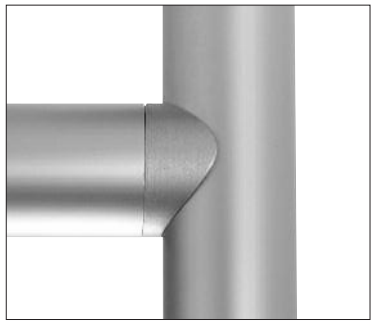


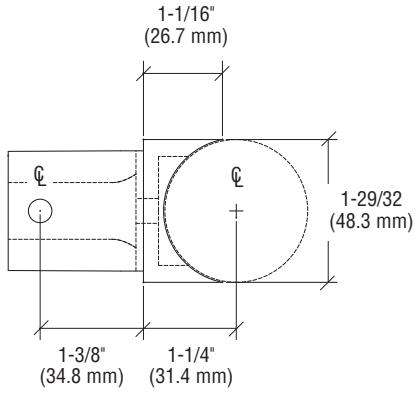
CRL ACRS Straight Tee Adaptor

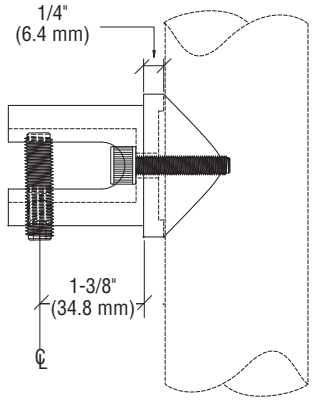
- Ready to Install
- Satin Anodized Finish
- Powder Coat Finishes Available on Special Order

CRL ACRS Straight Tee Adaptors are used to join posts and horizontal railings together to form 90 degree intersections. Simply attach the Adaptor with the 5/16"-18 socket head Cap Bolt and Rivet Nut supplied to 1-1/2" Schedule 40 Aluminum Pipe. A 27/64" hole needs to be drilled for the fastener. Then slip the intersecting pipe over the tanged end of the Adaptor and tighten the internal set screw to secure. Drilling a 27/64" hole into the intersecting pipe accesses the set screw. For Drilling Jig see page B414.









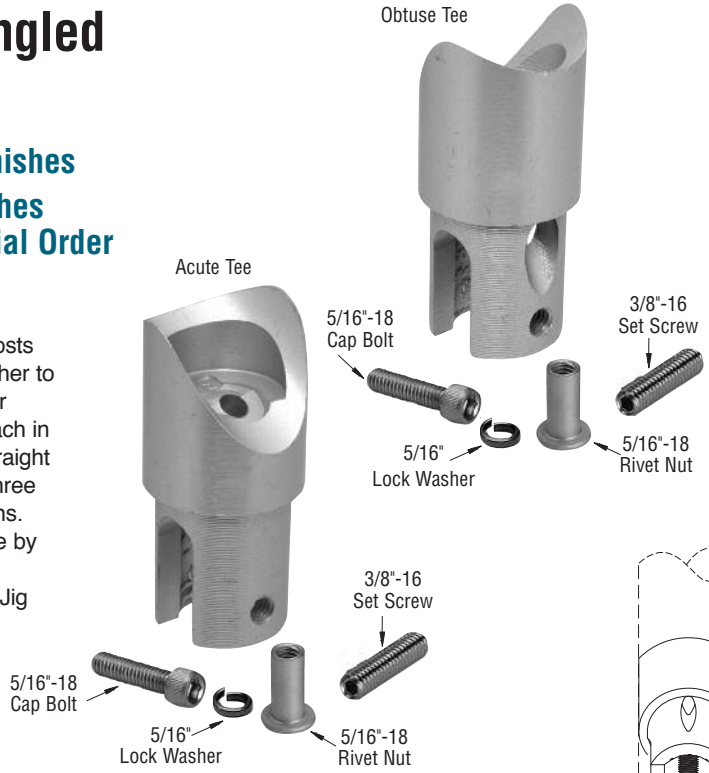
CAT. NO.	FINISH
A19STA	Satin Anodized

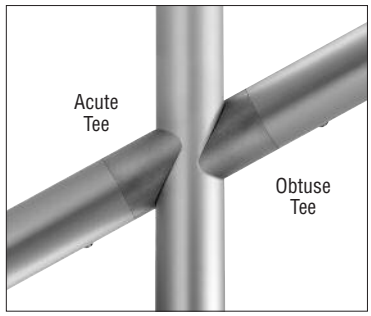
Minimum order: 1 each. All ACRS Adaptors can be combined for quantity pricing.

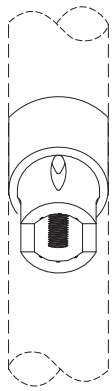
CRL ACRS Angled Tee Adaptors

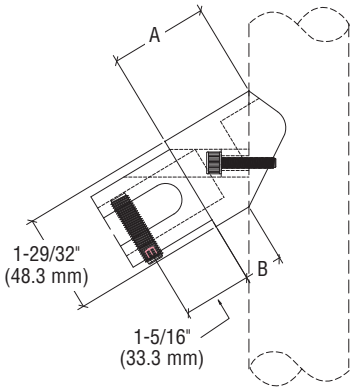
- Satin Anodized Finishes
- Powder Coat Finishes Available on Special Order

CRL ACRS Angled Tee Adaptors are used to join posts and horizontal railings together to form angled intersections for stairs and ramps. They attach in the same manner as the Straight Tees, and are available in three standard angle configurations. Custom angles are available by special order to meet your specific needs. For Drilling Jig see page B414.









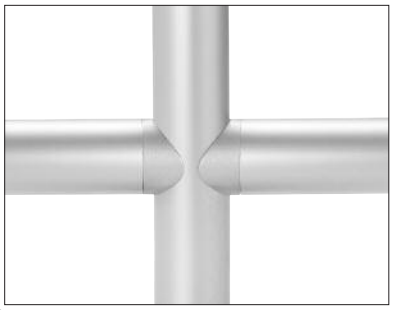
CAT. NO. ACUTE TEE	CAT. NO. OBTUSE TEE	ANGLE	"A"	"B"	FINISH
A19AT5	A190T5	5 Degrees	7/16" (11.8 mm)	5/16" (7.5 mm)	Satin Anodized
A19AT29	A190T29	29 Degrees	1-13/16" (46.3 mm)	3/4" (19.3 mm)	Satin Anodized
A19AT32	A190T32	32 Degrees	1-7/8" (47.6 mm)	11/16" (17.5 mm)	Satin Anodized

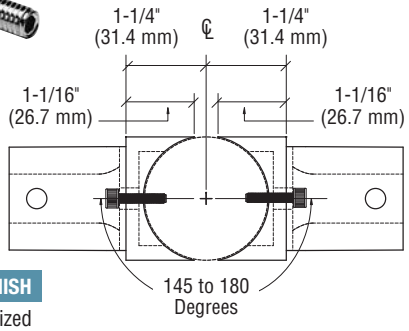
Minimum order: 1 each. All ACRS Adaptors can be combined for quantity pricing.

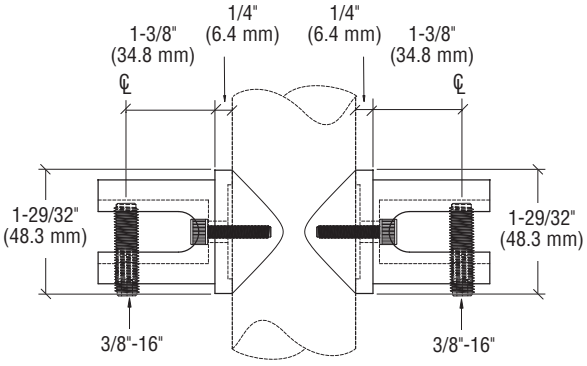
CRL ACRS Cross Adaptors

- 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 or 'crosses' from 145 to 180 degrees. They attach in the same manner as our Straight Tee Adaptors. Each set includes two Adaptors, and comes complete with all hardware required to complete a single intersection. For Drilling Jig see page B414.







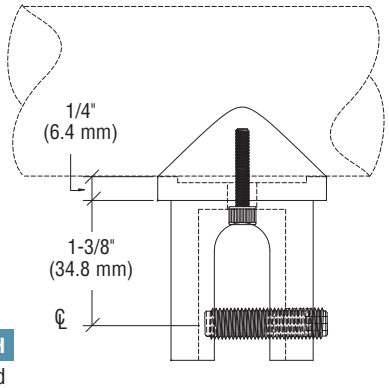
CAT. NO.	FINISH
A19CA	Satin Anodized

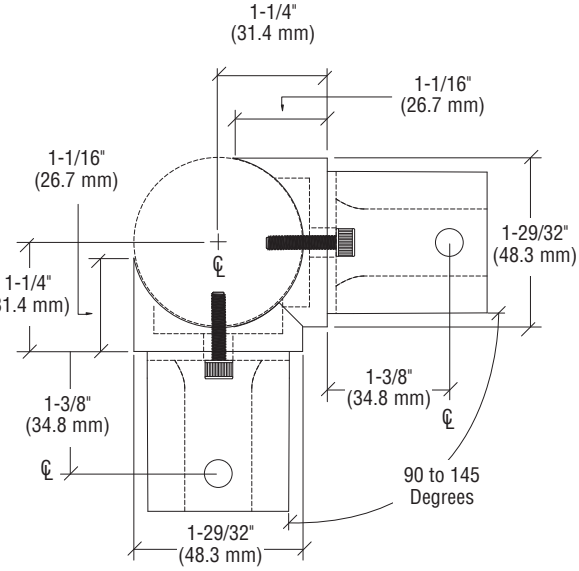
Minimum order: 1 each. All ACRS Adaptors can be combined for quantity pricing.

CRL ACRS Corner Post Adaptors

- 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 corners. These Adaptors are similar to the Straight Tee and Cross Adaptors, but they allow you to form tighter corners from 90 to 145 degrees. They attach in the same manner, but have been specially coped allowing them to attach more closely to each other on a post. Each set includes two Adaptors, and comes complete with all hardware required to complete a single corner. For Drilling Jig see page B414.





CAT. NO.	FINISH
A19CPA	Satin Anodized

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

CRL ACRS Upper Adjustable Tee Adaptors

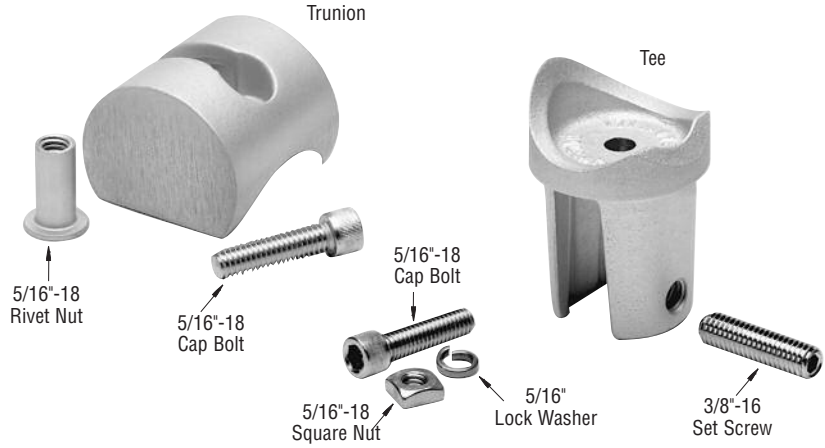
- Ready to Install
- Adjusts From 10 to 42 Degrees
- Satin Anodized Finish
- Powder Coat Finishes Available on Special Order

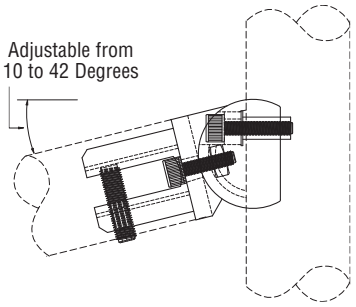
CRL ACRS Upper Adjustable Tee Adaptors are used to join posts and horizontal railings together at varying angles for non-standard stair and ramp conditions. When you are not sure what angle your stair or ramp is, or you can't wait for a custom adaptor, this Adjustable Adaptor is for you. The Trunion portion attaches to the pipe in a similar manner as the Straight Tee Adaptors. The Tee portion attaches to the Trunion and is adjustable from 10 to 42 degrees. They come complete with all hardware required to complete a single adjustable angle intersection. For Drilling Jig see page B414.

NOTE: Adjustable Tee Adaptors are not applicable to 5 degree ramp installations. Trunion is a cast part. Some color variation from the Pipe to the Adaptors will occur.

CAT. NO.	FINISH
A19UAT	Satin Anodized

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





Consult Technical Sales for Drilling Instructions

CRL ACRS Lower Adjustable Tee Adaptors

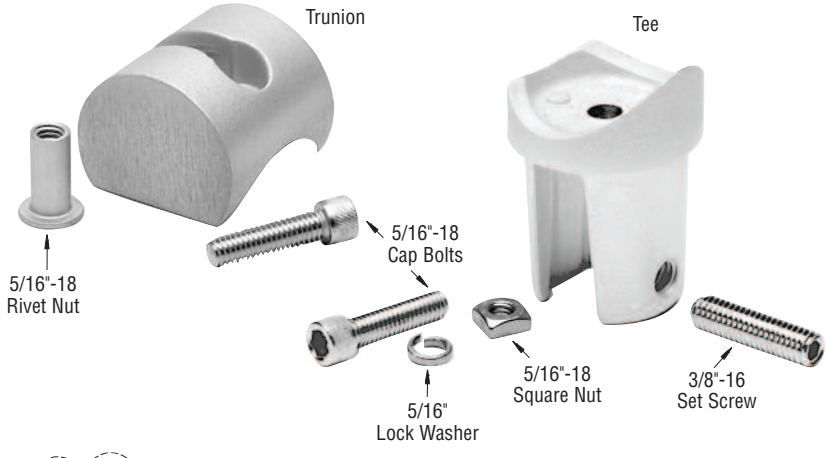
- Ready to Install
- Adjusts From 10 to 42 Degrees
- Satin Anodized Finish
- Powder Coat Finishes Available on Special Order

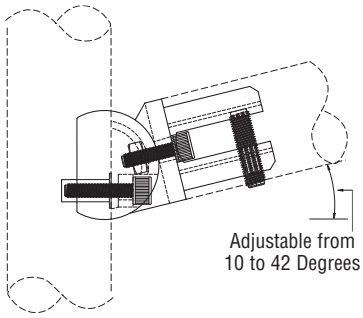
CRL ACRS Lower Adjustable Tee Adaptors are used to join posts and horizontal railings together at varying angles for non-standard stair and ramp conditions. When you are not sure what angle your stair or ramp is, or you can't wait for a custom adaptor, this Adjustable Adaptor is for you. The Trunion portion attaches to the pipe is a similar manner as the Straight Tee Adaptors. The Tee portion attaches to the Trunion and is adjustable from 10 to 42 degrees. They come complete with all hardware required to complete a single adjustable angle intersection. For Drilling Jig see page B414.

NOTE: Adjustable Tee Adaptors are not applicable to 5 degree ramp installations. Trunion is a cast part. Some color variation from the Pipe to the Adaptors will occur.

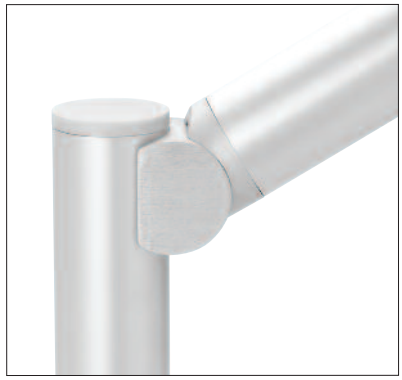
CAT. NO.	FINISH
A19LAT	Satin Anodized

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





Consult Technical Sales for Drilling Instructions



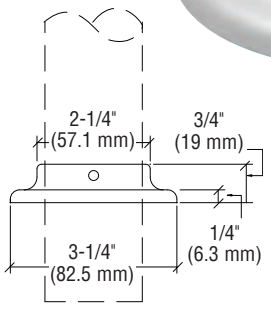
CRL ACRS Cover Flange

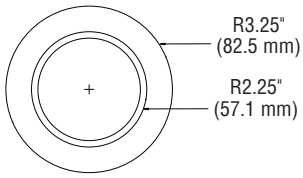
- Satin Anodized Finish
- Powder Coat Finishes Available on Special Order
- Ready to Install

The CRL ACRS Cover Flange is used to dress up core mounted installations, and give the project a finished look. It slips on to 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.

CAT. NO.	FINISH
A19CVR	Satin Anodized

Minimum order: 1 each.





CRL ACRS Floor Flange

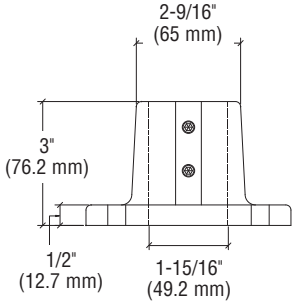
- Two Styles for Flat and Ramp Applications
- Satin Anodized Finish
- Powder Coat Finishes Available on Special Order

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.

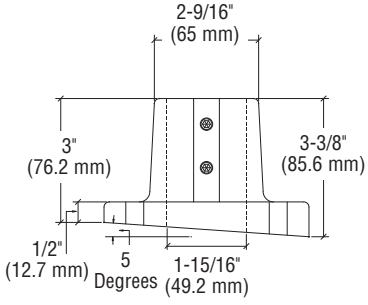
NOTE: Flange mounting fasteners are not supplied. Consult a structural engineer for your specific mounting condition.

CAT. NO.	STYLE	FINISH
A19FF	Level	Satin Anodized
A19RF	Ramp	Satin Anodized

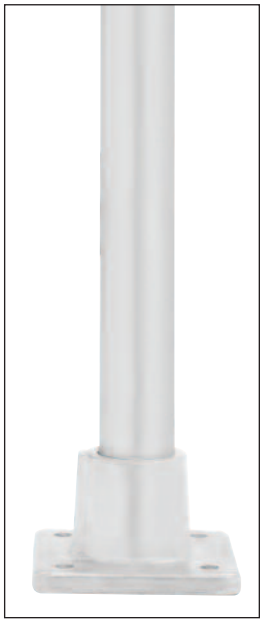
Minimum order: 1 each.



CAT. NO. A19FF

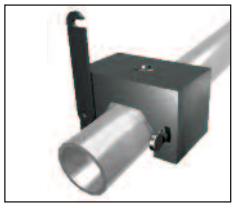


CAT. NO. A19RF

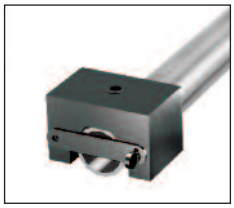


CRL ACRS Drilling Jig

- 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 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 B314 to B316, B318

Z-Series Glass Clamps

See pages B279 to B285

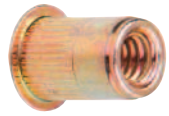
Expanding Cements

See page B398

CRL Post Rivet-Nuts

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



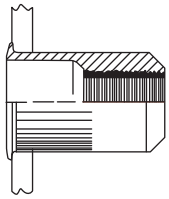
CAT. NO. RN1420

CAT. NO. ZRNUT

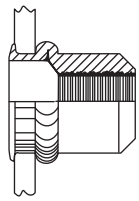
CAT. NO.	THREAD SIZE	REQUIRED HOLE	QTY/PKG
134VB	10-24	1/4" (6.3 mm)	100
RN1420	1/4"-20	25/64" (9.9 mm)	10
ZRNUT	5/16"-18	17/32" (13.5 mm)	10

Minimum order: 1 pack for 134VB; 10 each for RN1420 and ZRNUT.

How Rivet-Nuts Work



Inserted



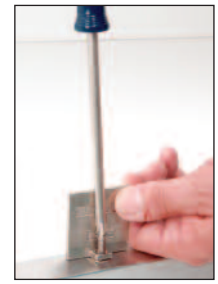
Compressed

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.

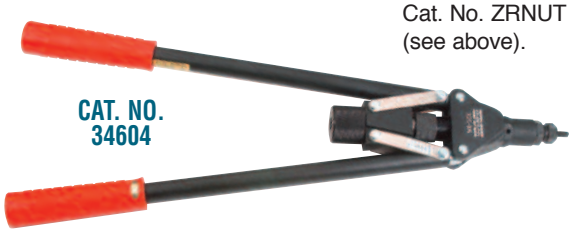


Lastly, Insert the screw or bolt into the Rivet-Nut and tighten the fitting to the post.

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

CAT. NO. 34618

CAT. NO.	DESCRIPTION
34604	Heavy-Duty Thread Insert Tool
34618	5/16"-18 Mandrel and Nosepiece

Minimum order: 1 each.

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 Alloy or Duplex 2205 Grade Stainless Steel Components, or T52 Tempered 6063 Alloy Aluminum**
- **Custom Fabrication is Also Available to Meet Your Specifications**

CRL Glass Windscreen Systems are developed to provide an attractive maintenance-free 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.
NOTE: Not Designed for Guard Rail Applications.

Visual Appeal - Noise Reduction - Low Maintenance Flexibility - Short Lead Times - Integrity

CRL GLASS WINDSCREEN SYSTEMS

For Pricing Visit Our Web Site or Call Us Toll Free at the Phone Numbers Shown on the Back Cover

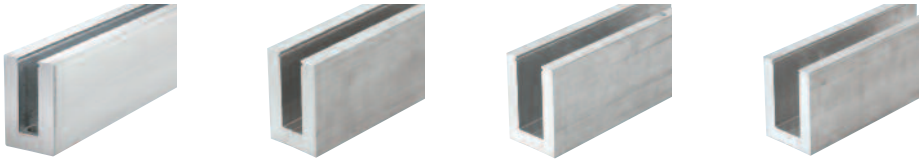
CRL Frameless Windscreen Clamp System

Pages B419 - B422

CRL's Frameless Glass Windscreen Clamp System is typically used for windscreens or pool deck surrounds. They were developed in Australia to create a windscreen that minimizes distractions from vertical or horizontal frame members. CRL has multiple designs to choose from that are manufactured for surface, core, and fascia mounted applications. Two architectural stainless steel finishes are available from stock. They are designed to support 1/2" (12 mm) glass.

CRL Frameless Windscreen Base Shoe System

Pages B428 - B431



B5S Series
1/2" (12 mm)
Monolithic Glass

B6S Series
5/8" (15.9 mm)
Monolithic Glass

L56S Series
9/16" (14.3 mm)
Laminated Glass

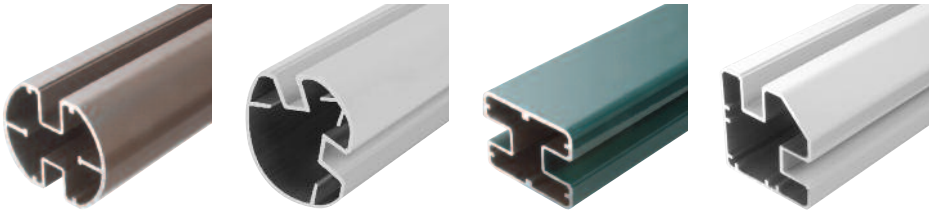
L21S Series
27/32" (21 mm)
Laminated Glass

CRL's Frameless Windscreen Base Shoe System is typically used for windbreaks, pool decks, and glass fencing surrounds. This system minimizes visual distractions for virtually unobstructed views it provides. CRL has multiple profiles to select from for monolithic tempered and laminated tempered glass, and cladding in six architectural finishes.

CRL AWS Aluminum Windscreen System

Pages B438 - B461

Round or Rectangular Post Kits



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 Gate Systems and Hardware

Pages B462 - B473

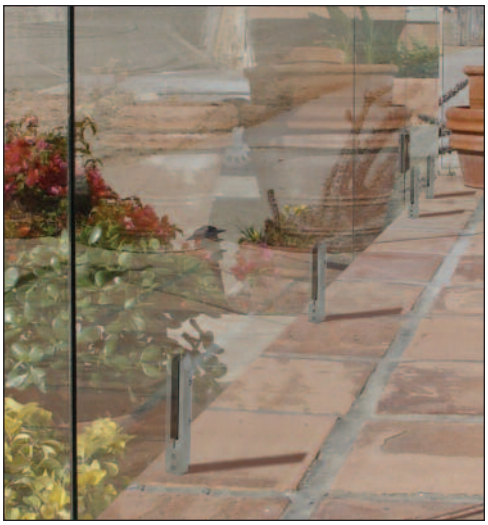
Gates are an integral part of most glass fencing projects. CRL offers a range of gate components for residential or commercial applications. Offered in multiple architectural finishes, these components will complement the total installation.

CRL GLASS WINDSCREEN SYSTEMS

CRL Frameless Windscreen Clamp System

Use Only TEMPERED GLASS

- Also Known as Spiggots
- Gives a Frameless 'All-Glass' Look
- Great for Pool Fencing, Balcony and Deck Applications
- Available in Two Standard Architectural Finishes
- 316 Alloy and Duplex 2205 Marine Grade Finishes
- Core, Surface or Side Mount Models



Our Frameless Windscreen Clamps, which are also known as Spiggots, provide a break from the wind using an almost invisible “frameless” look. No vertical posts are used between the panels of glass; they are solely supported from the bottom by these high strength stainless steel clamps.

They are intended for use with tempered glass panels, which requires drilled holes on which to fasten the Clamps. Their quality 316 alloy stainless steel construction provides superior weather resistance, and there are two models made of Duplex 2205 Marine Grade Stainless for installations within one mile of saltwater environments.

Core, side, and new surface mount models give you a choice of installation options. All models are available in a brushed stainless finish, and some are also available in a polished finish. Optional Garnish Rings and U-Channel Cap can be added to finish the installation.

CRL GLASS WINDSCREEN SYSTEMS

CRL Frameless Windscreen Clamp System

- **Gives the 'All-Glass' Frameless Look to Wind Breaks or Pool Surrounds**
- **Core-Mounted, Surface-Mounted, or Side-Mounted Styles for 3/8", 1/2", and 9/16" (10, 12, and 13 mm) Glass**
- **Available in 316 Alloy and Duplex 2205 Grade Stainless Steel**
- **Custom Powder Coated Finishes Also Available**
- **Designed for Monolithic and 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. Four 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.

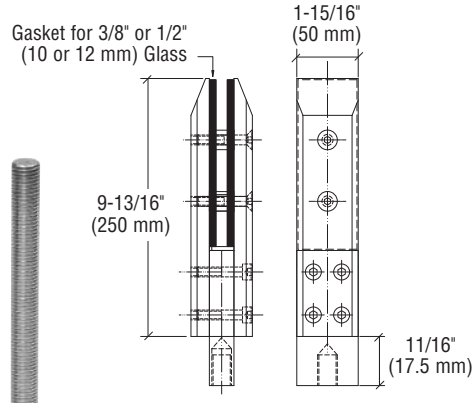
NOTE: CRL is an international supplier, and suggests you check local building codes to confirm these Frameless Windscreen Clamps meet local regulations.

CRL Three-Piece Core Mount Frameless Windscreen Clamp

- **316 Alloy 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" (14.3 mm) Tempered Laminated 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) holes per Clamp. Instruction sheet and glass fabrication templates are supplied. To secure Clamp in hole we suggest you use Kwikset® Expanding Cement (see page B398).



CAT. NO.	FINISH
AFWC3	Brushed Stainless
AFWC8	Polished Stainless

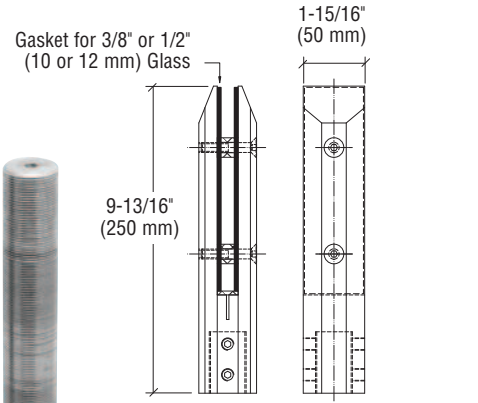
Minimum order: 1 each.

CRL One-Piece Core Mount Frameless Windscreen Clamp

- **316 Alloy 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 mm) Tempered Laminated 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) holes per Clamp. Instruction sheet and glass fabrication templates are supplied. To secure Clamp in hole we suggest you use Kwikset® Expanding Cement (see page B398).



CAT. NO.	FINISH
AFWC1	Brushed Stainless
AFWC6	Polished Stainless

Minimum order: 1 each.

CRL GLASS WINDSCREEN SYSTEMS

CRL Surface Mount Frameless Windscreen Clamp

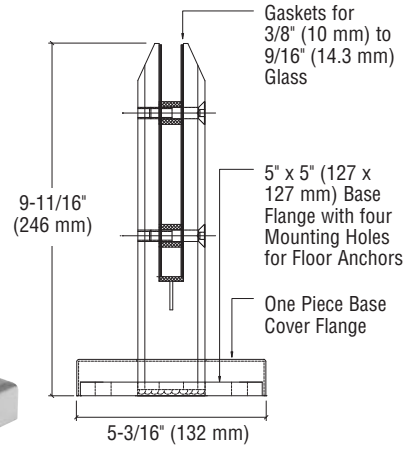
new

Use Only TEMPERED GLASS

- 316 Grade Stainless Steel in Two Architectural Finishes
- For 3/8" or 1/2" (10 or 12 mm) Tempered Monolithic Glass and 9/16" (14.3 mm) Tempered Laminated Glass

CRL's Surface Mounted Windscreen Clamps are designed for use on a wide range of residential and commercial applications and provides an attractive low maintenance unobstructed view. These innovative clamps can be installed to almost any mounting substrate and meet all safety requirements and building codes. Glass fabrication requires two 3/4" (19 mm) holes per clamp. **NOTE:** Anchor bolts sold separately.

Supplied Complete with Base Cover Flange and Moisture Barrier Gasket



CAT. NO.	FINISH
AFW1SBS	Brushed Stainless
AFW1SPS	Polished Stainless

Minimum order: 1 each.

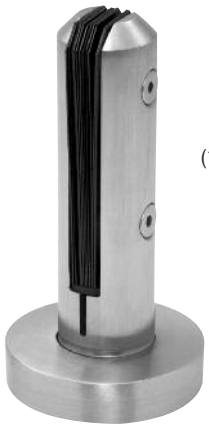
CRL Low Profile Surface Mount Frameless Windscreen Clamp

new

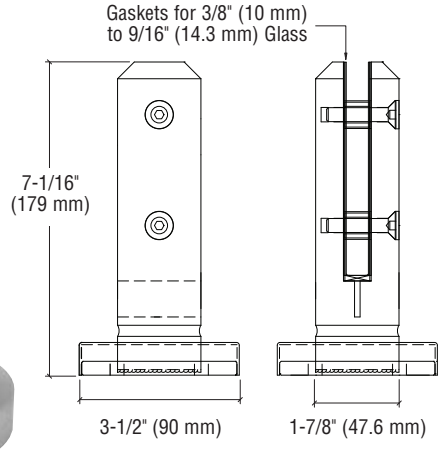
Use Only TEMPERED GLASS

- 316 Grade Stainless Steel in Two Architectural Finishes
- Great for Windscreens or Glass Partitions (Not Designed for Guard Rail Applications)
- For 3/8" or 1/2" (10 or 12 mm) Tempered Monolithic Glass and 9/16" (14.3 mm) Tempered Laminated Glass

CRL's Low Profile Surface Mounted 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) holes per clamp. **NOTE:** Anchor bolt sold separately.



Supplied Complete with Base Cover Flange and Moisture Barrier Gasket



CAT. NO.	FINISH
AFWC4SBS	Brushed Stainless
AFWC4SPS	Polished Stainless

Minimum order: 1 each.

CRL Two-Piece Side Mount Frameless Windscreen Clamp

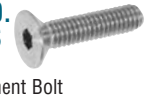
new

Use Only TEMPERED GLASS

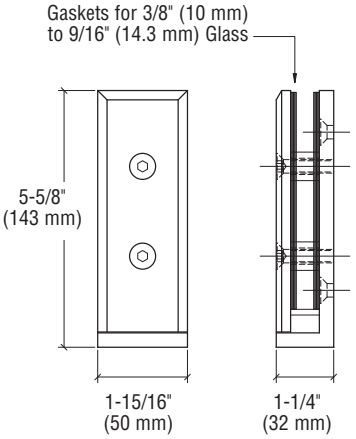
- 316 Grade Stainless Steel in Two Architectural Finishes
- Great for Windscreens or Glass Partitions (Not Designed for Guard Rail Applications)
- For 3/8" or 1/2" (10 or 12 mm) Tempered Monolithic Glass and 9/16" (14.3 mm) Tempered Laminated Glass

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



CAT. NO.	FINISH
AFWC2	Brushed Stainless
AFWC7	Polished Stainless

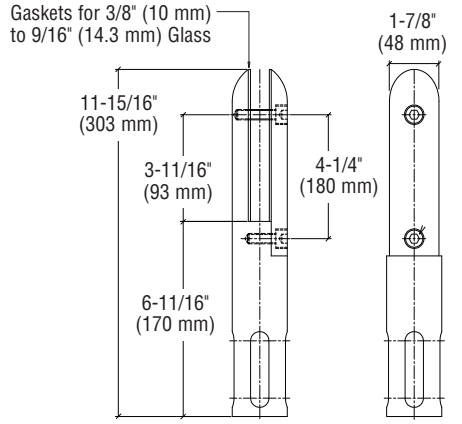
Minimum order: 1 each.

CRL Two-Piece Core Mount Round Clamp

Use Only TEMPERED GLASS

- **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" (14.3 mm) Tempered Laminated Glass**

Duplex 2205 is a more corrosive-resistant, higher grade of stainless steel than #316. It is ideally suited for areas within 1 kilometer of saltwater environments due to higher chromium content in the metal. Glass fabrication requires one 19 mm (3/4") hole per clamp.



CAT. NO.	FINISH
AFWC4	Brushed Stainless

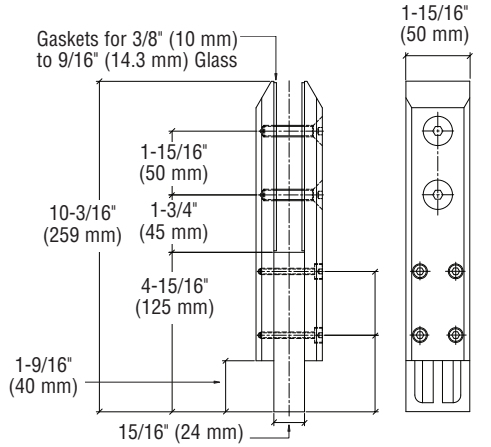
Minimum order: 1 each.

CRL Three-Piece Core Mount Clamp

Use Only TEMPERED GLASS

- **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" (14.3 mm) Tempered Laminated Glass**

Duplex 2205 is a more corrosive-resistant, higher grade of stainless steel than #316. It is ideally suited for areas within 1 kilometer of saltwater environments due to higher chromium content in the metal. Glass fabrication required two 19 mm (3/4") holes per clamp.



CAT. NO.	FINISH
DFWC3	Brushed Stainless

Minimum order: 1 each.

CRL Garnish Rings 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 covers easily slip over the Frameless Windscreen Clamp, and secure in place with CRL 95C Sealant (see page B453).

CAT. NO.	DIAMETER	FINISH	FITS CLAMP
AFWC3G	4" (102 mm)	Brushed Stainless	AFWC3
AFWC8G	4" (102 mm)	Polished Stainless	AFWC8

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 covers easily slip over the Frameless Windscreen Clamp, and secure in place with CRL 95C Sealant (see page B453).

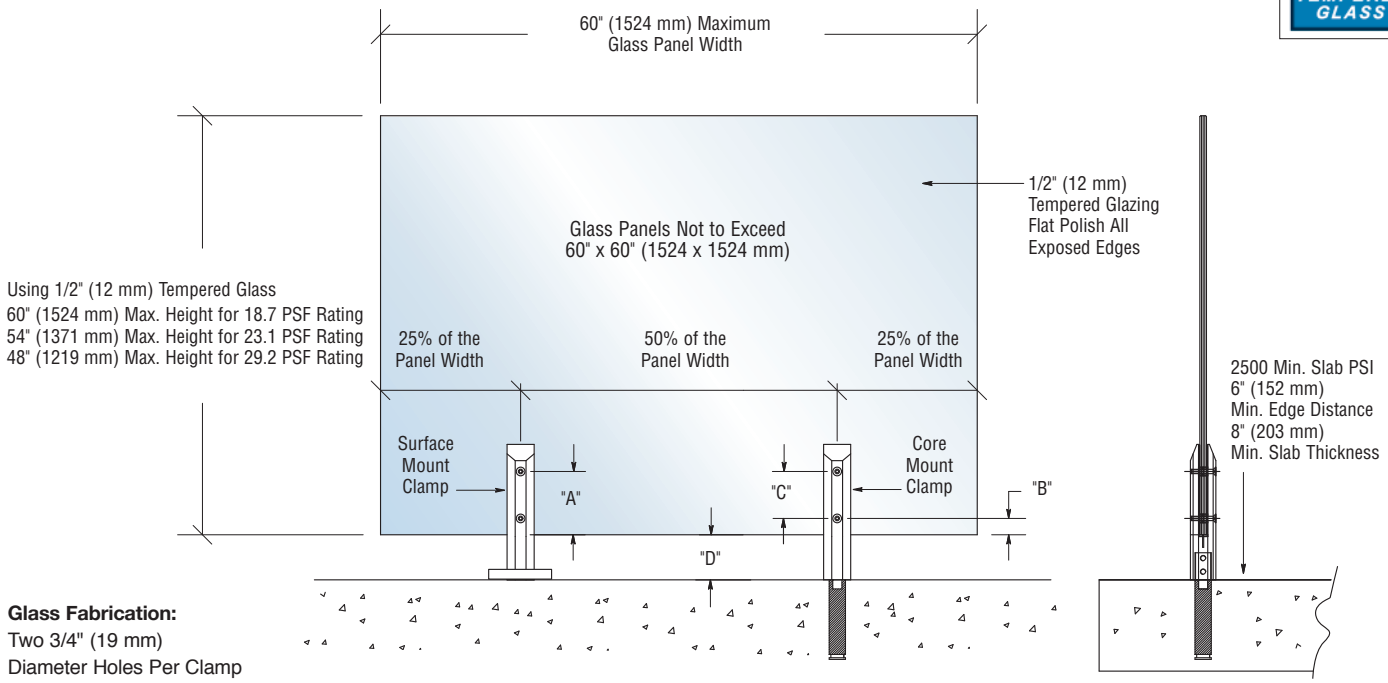
CAT. NO.	DIAMETER	FINISH	FITS CLAMP
AFWC1G	4" (102 mm)	Brushed Stainless	AFWC1
AFWC6G	4" (102 mm)	Polished Stainless	AFWC6

Minimum order: 1 each.

Typical Fabrication Guidelines for Frameless Glass Windscreen Panels

Use Only TEMPERED GLASS

• For Core Mount and Surface Mount Windscreen Clamps

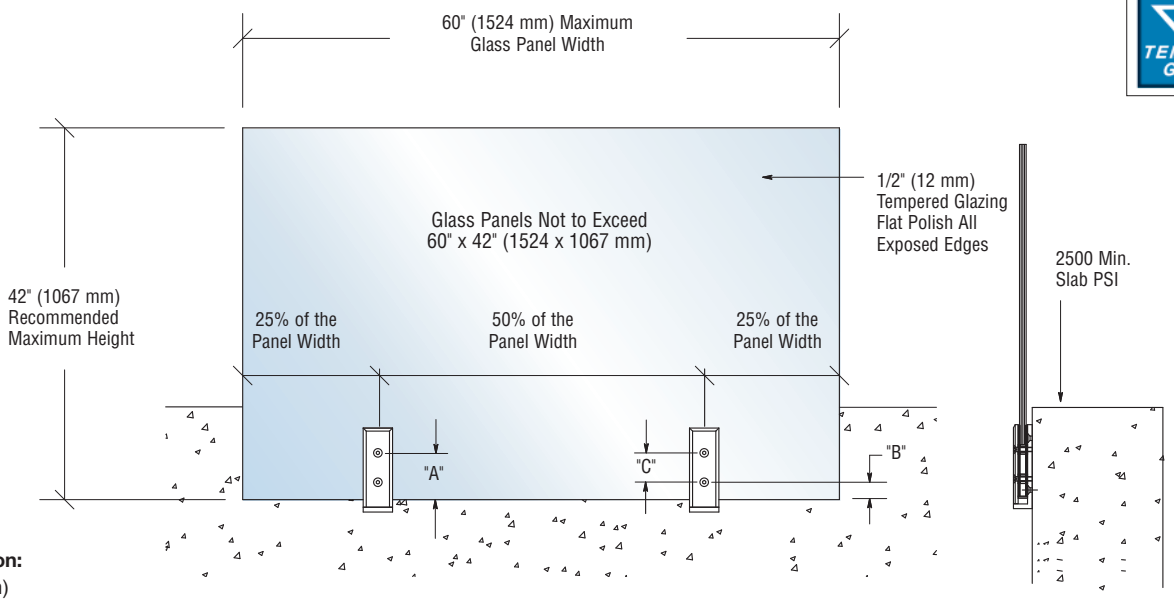


Glass Fabrication:
Two 3/4" (19 mm)
Diameter Holes Per Clamp

SURFACE MOUNT AND CORE MOUNT FABRICATION GUIDELINES

• For Fascia Mount Windscreen Clamps

Use Only TEMPERED GLASS



Glass Fabrication:
Two 3/4" (19 mm)
Diameter Holes Per Clamp

(FASCIA MOUNT) FABRICATION GUIDELINES

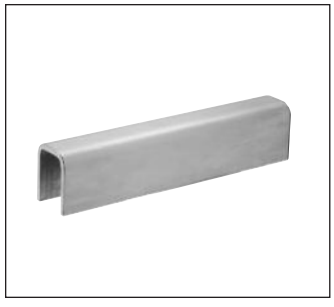
CAT. NO.	"A"	"B"	"C"	"D"
AFWC1/AFWC6	4-1/2" (114.3 mm)	1-1/8" (28.6 mm)	3-3/8" (85.7 mm)	3-1/4" (82.6 mm)
AFWC2/AFWC7	3-1/8" (79.4 mm)	1-3/16" (30.1 mm)	1-15/16" (49.2 mm)	N/A
AFWC3/AFWC8	3-3/8" (85.7 mm)	1-7/16" (36.5 mm)	1-7/8" (47.6 mm)	2-7/8" (73 mm)
AFWC1SBS/AFWC1SPS	4-1/2" (114.3 mm)	1-1/8" (28.6 mm)	3-3/8" (85.7 mm)	3-3/8" (85.7 mm)
AFWC4SBS/AFWC4SPS	3-5/8" (92.1 mm)	1-1/8" (28.6 mm)	2-1/2" (63.5 mm)	2-1/4" (57.2 mm)

CRL GLASS WINDSCREEN SYSTEMS

NOTE: CRL is an International Supplier and suggests you check local building codes to confirm these Frameless Windscreen Clamps meet local regulations.

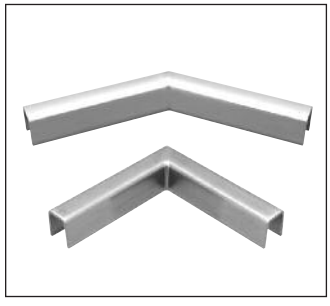
CRL Low Profile Cap Railing Accessories

Low Profile Cap Rail



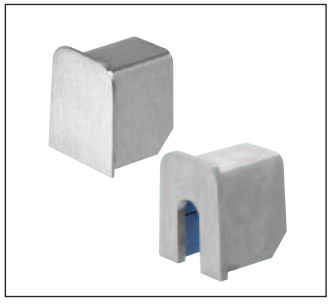
See page B196

Corners



See page B198

End Caps



See page B197

Contact Cement

See page B337

CRL GLASS WINDSCREEN SYSTEMS

CRL Glass Panel Clamps

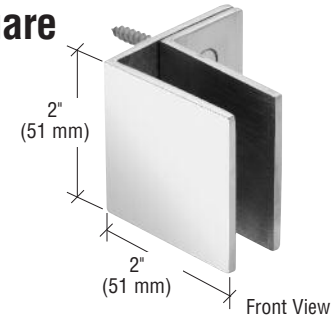
Use Only TEMPERED GLASS

- A Choice of High Tech, Contemporary Designs for Use With 3/8" to 1/2" (10 to 12 mm) Thick Tempered Glass
- Commonly Used in Glass Windscreens and Railing Applications for Joining Vertical Joints of Glass Panels
- Reduces Panel Deflection
- Custom Finishes Available

Glass Panel Clamps join vertical glass wall panels and provide rigidity to reduce flexing when pressure is applied. They can also serve as floating indicators to alert pedestrians of a panel's presence in dimly lit areas. All Clamps come in polished brass, polished stainless or brushed stainless finishes, and are designed for 3/8" to 1/2" (10 to 12 mm) thick glass.

CRL Wall Mount Square Glass Panel Clamp

- For 3/8" to 1/2" (10 to 12 mm) Thick Tempered Glass



Use CRL Wall Mount Square Front Clamps to join vertical glass panels to walls, and to provide rigidity to reduce flexing when pressure is applied. Supplied with two wood screws for installation.

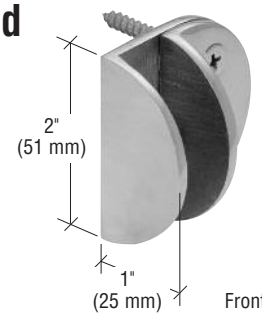
CAT. NO.	FINISH
MFCW10	Polished Stainless
MFCW11	Brushed Stainless
MFCW12	Polished Brass

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

Use Only TEMPERED GLASS

CRL Wall Mount Round Glass Panel Clamp

- For 3/8" to 1/2" (10 to 12 mm) Thick Tempered Glass



Use CRL Wall Mount Round Front Clamps to join vertical glass panels to walls, and to provide rigidity to reduce flexing when pressure is applied. Supplied with two wood screws for installation.

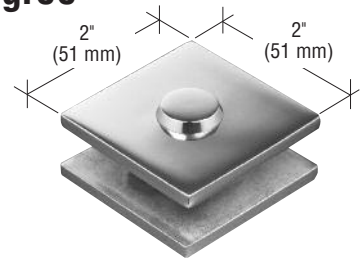
CAT. NO.	FINISH
MFCW14	Polished Stainless
MFCW15	Brushed Stainless
MFCW16	Polished Brass

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

Use Only TEMPERED GLASS

CRL Square 180 Degree Glass Panel Clamp

- For 3/8" to 1/2" (10 to 12 mm) Thick Tempered Glass



This 2" x 2" (51 x 51 mm) Square 180 Degree Clamp attaches with a single beveled nut (included). Suggested minimum gap between tempered glass panels is 7/32" (5.6 mm).

CAT. NO.	FINISH
MFC10	Polished Stainless
MFC11	Brushed Stainless
MFC12	Polished Brass

Minimum order: 1 each. All Clamps can be combined for quantity pricing.
To use on 3/8" (10 mm) glass simply file the threaded shank to the desired size.

Use Only TEMPERED GLASS

CRL Round 180 Degree Glass Panel Clamp

- For 3/8" to 1/2" (10 to 12 mm) Thick Tempered Glass

This 2" (51 mm) Diameter Round 180 Degree Clamp attaches with a single beveled nut (included). Suggested minimum gap between tempered glass panels is 7/32" (5.6 mm).

CAT. NO.	FINISH
MFC14	Polished Stainless
MFC15	Brushed Stainless
MFC16	Polished Brass

Minimum order: 1 each. All Clamps can be combined for quantity pricing.
To use on 3/8" (10 mm) glass simply file the threaded shank to the desired size.

Use Only TEMPERED GLASS

CRL Round 180 Degree Glass Panel Clamp

new

- For 3/8" to 3/4" (10 to 19 mm) Thick Tempered Glass

This 2" (51 mm) diameter 180 Degree Round Glass Panel Clamp attaches with two flat head Phillips screws (included). Suggested minimum gap between tempered glass panels is 7/32" (5.6 mm).

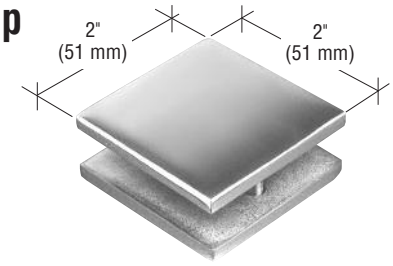
CAT. NO.	FINISH
MFC30	Polished Stainless
MFC31	Brushed Stainless

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

Use Only TEMPERED GLASS

CRL Square 180 Degree Glass Panel Clamp

- For 3/8" to 3/4" (10 to 19 mm) Thick Tempered Glass



This 2" x 2" (51 x 51 mm) 180 Degree Square Glass Panel Clamp attaches with two flat head Phillips screws (included). Suggested minimum gap between tempered glass panels is 7/32" (5.6 mm).

CAT. NO.	FINISH
MFC18	Polished Stainless
MFC19	Brushed Stainless
MFC20	Polished Brass

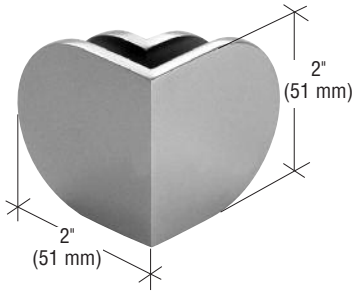
Minimum order: 1 each. All Clamps can be combined for quantity pricing.

Use Only TEMPERED GLASS

CRL Round 90 Degree Glass Panel Clamp

new

- For 3/8" to 1/2" (10 to 12 mm) Thick Tempered Glass



This 90 Degree Round Glass Panel Clamp is installed using our Cat. No. 491012 or AT04012 Clear Very Hi-Bond Tape and Cat. No. RTV408C Neutral Cure Silicone.

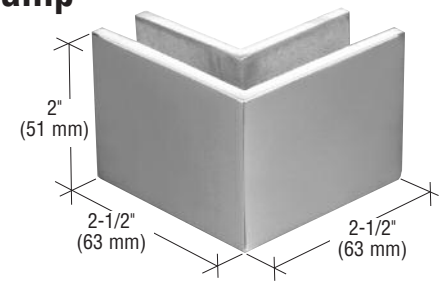
CAT. NO.	FINISH
MFC34	Polished Stainless
MFC35	Brushed Stainless

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

Use Only TEMPERED GLASS

CRL Square 90 Degree Glass Panel Clamp

- For 3/8" to 1/2" (10 to 12 mm) Thick Tempered Glass



This 90 Degree Square Glass Panel Clamp is installed using our Cat. No. 491012 or AT04012 Clear Very Hi-Bond Tape and Cat. No. RTV408C Neutral Cure Silicone.

CAT. NO.	FINISH
MFC22	Polished Stainless
MFC23	Brushed Stainless
MFC24	Polished Brass

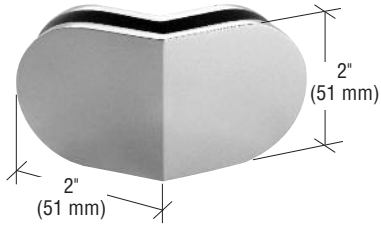
Minimum order: 1 each. All Clamps can be combined for quantity pricing.

Use Only TEMPERED GLASS

CRL Round 135 Degree Glass Panel Clamp

new

- For 3/8" to 1/2" (10 to 12 mm) Thick Tempered Glass



This 135 Degree Round Glass Panel Clamp is installed using our Cat. No. 491012 or AT04012 Clear Very Hi-Bond Tape and Cat. No. RTV408C Neutral Cure Silicone.

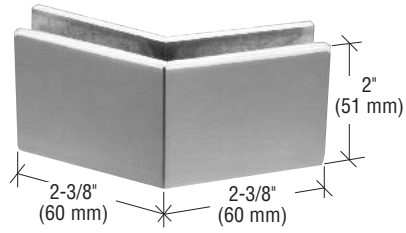
CAT. NO.	FINISH
MFC38	Polished Stainless
MFC39	Brushed Stainless

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

Use Only TEMPERED GLASS

CRL Square 135 Degree Glass Panel Clamp

- For 3/8" to 1/2" (10 to 12 mm) Thick Tempered Glass



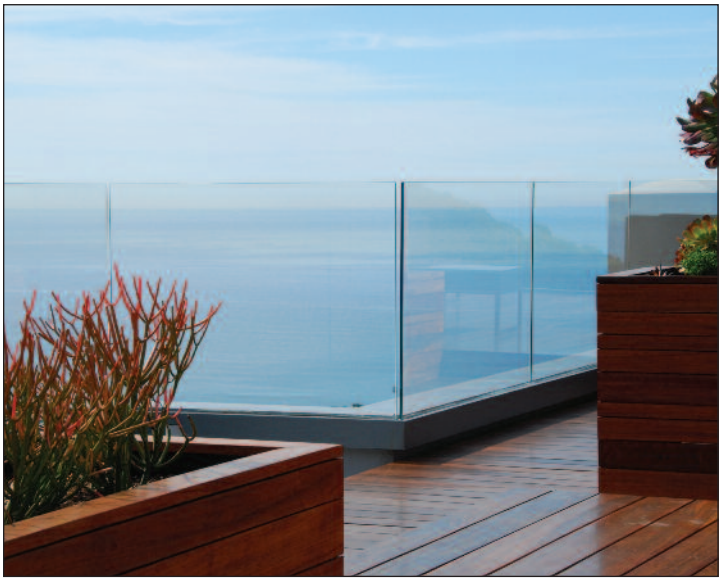
This 135 Degree Square Glass Panel Clamp is installed using our Cat. No. 491012 or AT04012 Clear Very Hi-Bond Tape and Cat. No. RTV408C Neutral Cure Silicone.

CAT. NO.	FINISH
MFC26	Polished Stainless
MFC27	Brushed Stainless
MFC28	Polished Brass

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

Use Only TEMPERED GLASS

CRL GLASS WINDSCREEN SYSTEMS



CRL Frameless Base Shoe System

- **Great for Glass Windbreaks, Pool Enclosures, Perimeter Fencing, Sound Barriers, Balconies, and Any 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**

Use Only TEMPERED GLASS

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.

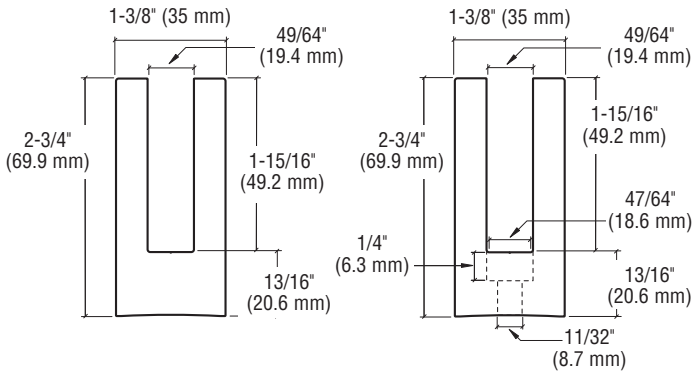
Small Profile Windscreen Base shoe is available pre-drilled and counter bored, or in undrilled lengths that can be custom fabricated to your exact job requirements. Accessory cladding is available in six beautiful architectural finishes, or you can specify custom powder-coated paint in hundreds of quick-turn colors.

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.

On the following pages are detailed descriptions of all available Windscreen Base Shoe components, with selection and ordering information. Ordering assistance is also available through our Railing Technical Sales Staff.

Standard Small Profile Base Shoe for 3/8" or 1/2" (10 or 12 mm) Glass

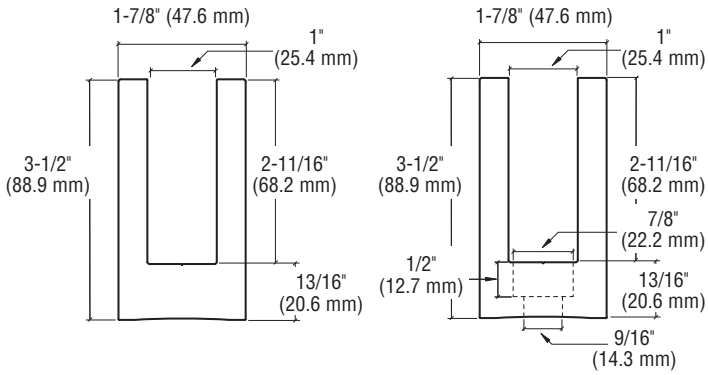
W5B Series See Page B428



Undrilled **Hole Pattern "D"**

Heavy-Duty Small Profile Base Shoe for 3/4" (19 mm) Glass

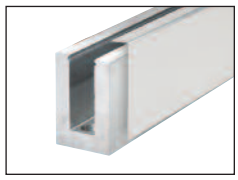
W7B Series See page B430



Undrilled **Hole Pattern "D"**

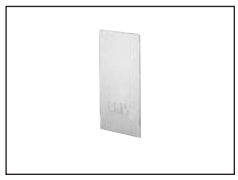
Available Base Shoe Accessories

See pages B429 and B431

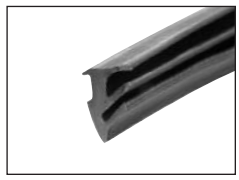


Base Shoe Cladding

Mitered Corner Cladding



Base Shoe End Caps

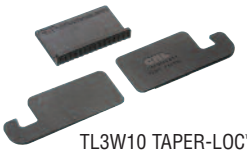


Roll In Vinyl

CRL Standard Small Profile Windscreen Base Shoe for 3/8" or 1/2" (10 or 12 mm) Glass

Use Only TEMPERED GLASS

- Works With TL3W10 TAPER-LOC™ Sets (See Page B432)
- Ideal for Windscreens and Privacy Partitions
- Drilled and Counter Bored, or We Will Custom Drill to Your Specifications
- Custom Fabrication Services Also Available
- 36" (914 mm) Maximum Recommended Height for 3/8" (10 mm) Monolithic Tempered Glass Using TAPER-LOC™
- 42" (1067 mm) Maximum Recommended Height for 1/2" Tempered Monolithic Glass Using Wet Glaze Method
- Not Designed for Guard Rail Applications

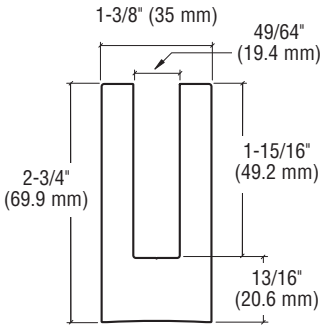


TL3W10 TAPER-LOC™ Taper Set

- 6063 Alloy
- T52 Temper

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 B432). If 1/2" (12 mm) glass is required use CRL's wet glaze method.

Extruded aluminum Standard Small Profile Base Shoe can be clad in six different architectural finishes (see next page). Roll-In Vinyl is available for finishing off the top opening (see next page). A printed instruction, installation hints, cleaning and refinishing brochure is available. You may also view it on our web site at **crlaurence.com**. **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 Technical Sales if you need assistance with fastener selection.



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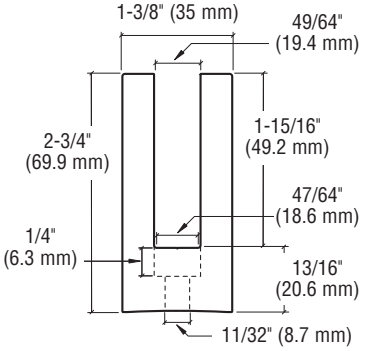


Hole Pattern "D"

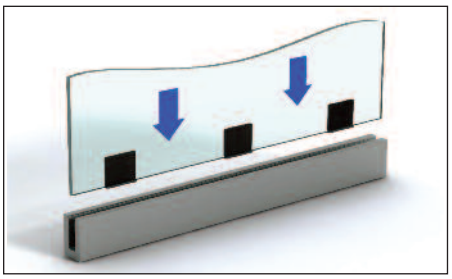
CAT. NO.	STOCK LENGTH	HOLE SIZE	COUNTER BORE X DEPTH	CENTER-TO-CENTER	WEIGHT
W5B10D	120" (3.05 m)	11/32" (9 mm)	47/64" x 1/4" (19 x 6.3 mm)	12" (305 mm)	28 Lbs. (13 kg)
W5B20D	240" (6.10 m)	11/32" (9 mm)	47/64" x 1/4" (19 x 6.3 mm)	12" (305 mm)	55 Lbs. (25 kg)
W5B10	120" (3.05 m)	-	Extrusion Only (Without 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.

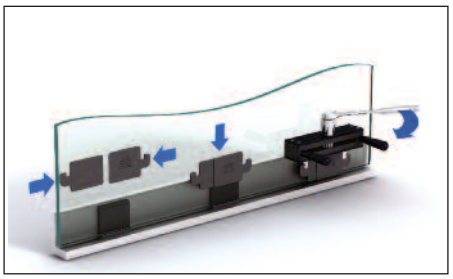
SHIPPING NOTICE: Due to the difficulty in packaging and handling 240" (6.10 m) stock lengths, it is suggested that you take delivery of these at any of our regional distribution centers. If requiring shipment, all packaging and handling concerns must be agreed to by CRL and the customer prior to shipping.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

TAPER-LOC™ DRY GLAZE RAILING SYSTEM crlaurence.com Patent Pending

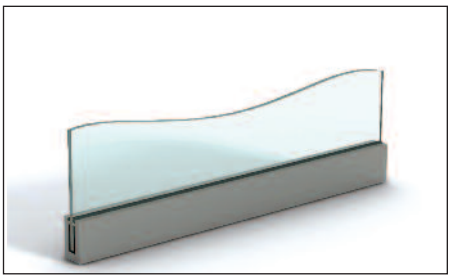
CRL TAPER-LOC™ Dry Glaze System



Adhere TAPER-LOC™ L-Pressure Blocks to the bottom edge of the glass and lower it into position.



Install TAPER-LOC™ Taper Shims with our TLK9 Installation/Removal Tool to lock the glass securely in place.



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

CRL GLASS WINDSCREEN SYSTEMS

CRL Straight Cladding for Standard Windscreen Base Shoe

- Adhere With Cladding Tape or 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 or Silicone Sealant. See page B154 for CRL Cladding Tape, CRL Silicone Sealant, and attachment instructions. **NOTE:** Sold 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. 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

- Adhere With Cladding Tape or Silicone Sealant

CRL End Caps are available in six architectural finishes. They can be secured to the Base Shoe using Cladding Tape or Silicone Sealant. See page B154 for CRL Cladding Tape, CRL 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 Windscreen Base Shoe

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

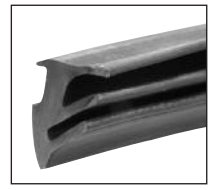
CRL Mitered Corner Cladding is available in six architectural finishes. Each leg is 12" (305 mm) in length, and can be secured to the Base Shoe using Cladding Tape or Silicone Sealant. See page B154 for CRL Cladding Tape, CRL Silicone Sealant, and attachment instructions. Sold only in sets of four pieces.

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
- Sizes for 3/8" or 1/2" (10 or 12 mm) Glass



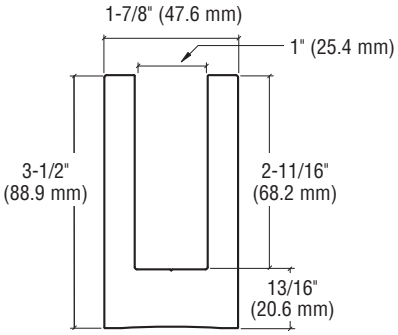
CRL Roll-In Vinyl finishes off the installation of the glass panels in wet glaze pour installations, and also helps secure the glass in Standard Windscreen Base Shoe applications.

CAT. NO.	GLASS SIZE	ROLL LENGTH
RG38100	3/8" (10 mm)	100' (30.5 m)
RG38500	3/8" (10 mm)	500' (152.4 m)
RG12100	1/2" (12 mm)	100' (30.5 m)
RG12500	1/2" (12 mm)	500' (152.4 m)

Minimum order: 1 roll.

CRL Heavy-Duty Small Profile Windscreen Base Shoe for 3/4" (19 mm) Glass

- Ideal for Windscreens and Privacy Partitions
- Drilled and Counter Bored, or We Will Custom Drill to Your Specifications
- Custom Fabrication Services Also Available



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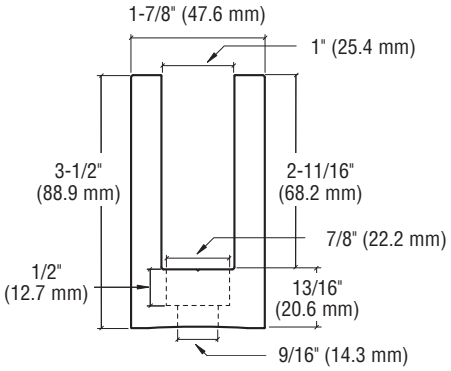


Hole Pattern "D"

- 6063 Alloy
- T52 Temper

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.

Extruded aluminum Heavy-Duty Small Profile Base Shoe can be clad in six different architectural finishes (see next page). Roll-In Vinyl is available for finishing off the top opening (see next page). A printed instruction, installation hints, cleaning and refinishing brochure is available. You may also view it on our web site at **crlaurence.com**. **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 Technical Sales if you need assistance with fastener selection.

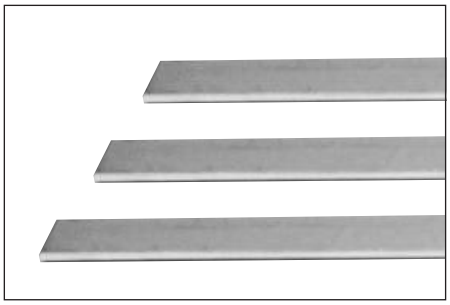
CAT. NO.	STOCK LENGTH	HOLE SIZE	COUNTER BORE X DEPTH	CENTER-TO-CENTER	WEIGHT
W7B10D	120" (3.05 m)	9/16" (14.3 mm)	7/8" x 1/2" (22.2 x 12.7 mm)	12" (305 mm)	34 Lbs. (15 kg)
W7B20D	240" (6.10 m)	9/16" (14.3 mm)	7/8" x 1/2" (22.2 x 12.7 mm)	12" (305 mm)	68 Lbs. (31 kg)
W7B10	120" (3.05 m)	-	Extrusion Only (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.

SHIPPING NOTICE: 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 regional distribution 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.

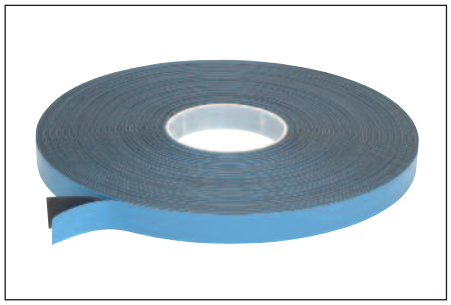
Accessories for Windscreen Base Shoe

Aluminum Shim Strips



See page B155

Cladding Tape



See page B154

Expanding Cement

See page B129

CRL GLASS WINDSCREEN SYSTEMS

CRL Straight Cladding for Heavy-Duty Windscreen Base Shoe

- Adhere With Cladding Tape or 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 or Silicone Sealant. See page B154 for CRL Cladding Tape, CRL Silicone Sealant, and attachment instructions. **NOTE:** Sold 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 Windscreen Base Shoe

- Adhere With Cladding Tape or Silicone Sealant

CRL End Caps are available in six architectural finishes. They can be secured to the Base Shoe using Cladding Tape or Silicone Sealant. See page B154 for CRL Cladding Tape, CRL 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 Windscreen Base Shoe

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

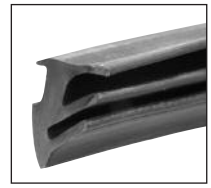
CRL Mitered Corner Cladding is available in six architectural finishes. Each leg is 12" (305 mm) in length, and can be secured to the Base Shoe using Cladding Tape or Silicone Sealant. See page B154 for CRL Cladding Tape, CRL Silicone Sealant, and attachment instructions. Sold only in sets of four pieces.

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. Finishes can be combined for quantity pricing.

CRL Roll-In Vinyl

- Black Vinyl Dresses Up Top Opening
- For Use With 3/4" (19 mm) Glass



CRL Roll-In Vinyl finishes off the installation of the glass panels in wet glaze pour installations, and also helps secure the glass in Heavy-Duty Windscreen Base Shoe applications.

CAT. NO.	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 TAPER-LOC™ for 3/8" (10 mm) Monolithic Tempered Glass

TAPER-LOC™
DRY GLAZE RAILING SYSTEM
crlaurence.com
Patent Pending

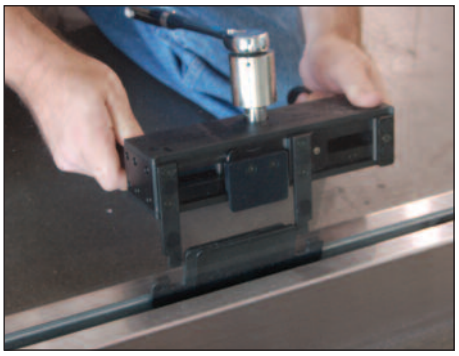
- Works With W5B Standard Windscreen Base Shoe
- Eliminates the Use of Messy Cement
- Supports All Mounting Methods With One Compact Installation/Removal Tool
- Precision Measured Control Gives You High Quality Installs Every Time
- Installs From the Floor Side of the Installation

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 Set
28" to 42" (711 to 1067 mm)	3 Set
42" to 56" (1067 to 1422 mm)	4 Set

CAT. NO. TL3W10
TAPER-LOC™ Tapers

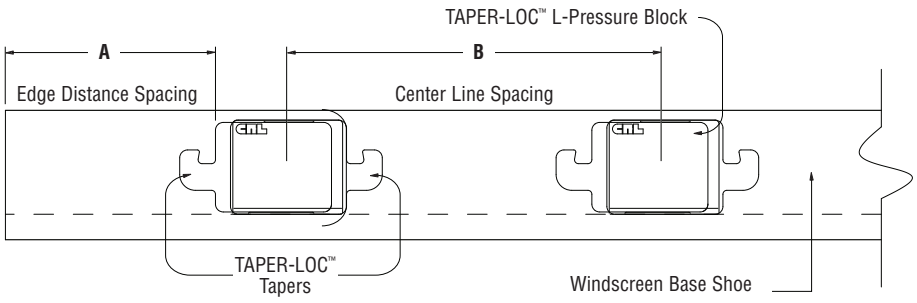
CRL's TAPER-LOC™ Taper Set for 3/8" (10 mm) monolithic tempered glass is made up of two Tapers and one L-Pressure Block. Tapers are made of a high strength engineering grade polymer. They expand in thickness when compressed together with the Cat. No. TLK9 Installation/Removal Tool, mechanically locking the glass panel into the base shoe. Minimum order is ten Taper Sets.

The TAPER-LOC™ L-Pressure Block is made from high strength engineering grade polymer. It spaces the glass away from the base shoe's vertical wall on one side and at the bottom edge, and is attached 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.



CRL TAPER-LOC™ Spacing Guidelines

Maximum center-to-center spacing of the TAPER-LOC™ varies on the applicable codes for the installation. It is designed for a 25 (PSF) rating at a 36" (914 mm) glass height.



TYPICAL BASE SHOE ELEVATION DETAIL WITH TAPER-LOC™ LOCATIONS

A. The TAPER-LOC™ minimum edge distance spacing shall not be less than 2" (51 mm) and no more than 8-5/8" (219 mm) from the edge of glass to edge of the TAPER-LOC™ components.

B. The TAPER-LOC™ maximum center-to-center spacing shall not be less than 7" (178 mm) and no more than 14" (356 mm) from the center line of the TAPER-LOC™ Tapers.

CRL TAPER-LOC™ Installation/Removal Tool Kit for Glass Windscreens

TAPER-LOC™
DRY GLAZE RAILING SYSTEM
crlaurence.com
Patent Pending

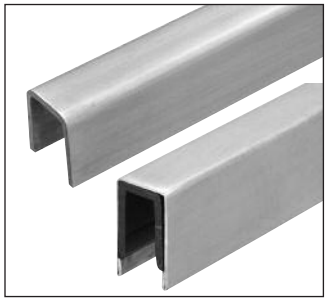
- One Tool That Works With All of CRL's Different TAPER-LOC™ Styles
- With Integrated Torque Wrench Designed for Precise Lock-Up Force
- One Compact Installation/Removal Tool Supports All Mounting Methods
- Reduces Installation Time by 50%
- This One Tool Works With 3/8" (10 mm), 1/2" (12 mm), 15 mm and 3/4" (19 mm) Monolithic Tempered Glass
- Also Designed for 9/16" (13 mm), 27/32" (21.52 mm), and 1-1/16" (25.52 mm) Tempered Laminated Glass

CAT. NO. TLB5
Replacement Blades for 1/2" or 3/4" (12 or 19 mm) Glass

CAT. NO. TLK9
Installation/Removal Tool Kit

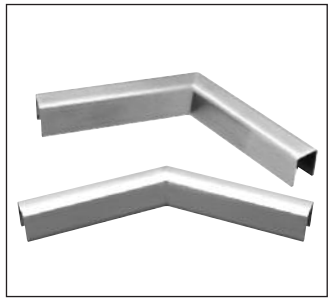
The TLK9 Installation/Removal Tool is used for tightening TAPER-LOC™ Tapers in the channel of the base shoe. It has an Integrated Torque Wrench that applies the precise lock-up force necessary to set the glass panels. Simply set in place and turn the wrench until a clicking sound is heard. This assures the Tapers have been locked together. It can also remove Tapers when glass panels need to be reset or replaced. The TLK9 Tool comes with an Integrated Torque Wrench, a Glass Railing Setting Tool for Monolithic Glass, a Glass Railing Setting Tool for Laminated Glass, a pair of Glass Setting Roller Blocks, Instructions, and an assortment of Compression Blades. The Blade Assortment includes: one pair of Blue Blades and Pusher Plate for monolithic surface mount guard rail and railing installs; one pair of Yellow Blades and Pusher Plate for monolithic windscreen installs; one pair of Red Blades and Pusher Plate for monolithic recessed mount guard rail and railing installs; one black Pusher Plate for all laminated glass installs. Everything is contained in a Molded Carrying Case. Minimum order is one each.

U-Channel Cap Rails



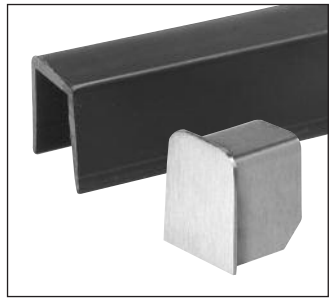
See Pages B196-B200

U-Channel Cap Rail Corners



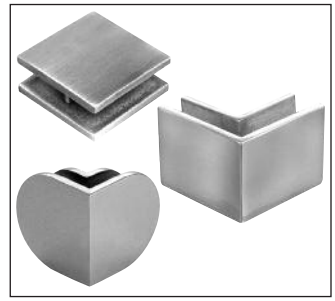
See Pages B198, B201

Cap Rail Vinyl and End Caps



See Pages B196-B197

Panel Alignment Clamps



See Pages B424-B425

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™
DRY GLAZE RAILING SYSTEM
crlaurence.com
Patent Pending

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-Pressure 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, 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.

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 and Carrying Case.

CAT. NO. 406065

CRL GLASS WINDSCREEN SYSTEMS

CRL AWS Aluminum Windscreen System

Use Only TEMPERED GLASS

MANUFACTURED IN THE USA BY C.R. LAURENCE An ISO9001:2008 Certified Company

• 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, maintenance-free 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.

Visual Appeal – The Homeowner will love the clean look of this wall and the virtually unobstructed view it provides.

Noise Reduction – The AWS System is superbly suited as a sound wall along busy streets and highways. Our system provides a much higher sound transmission rating than conventional fencing.

Maintenance – The AWS System is low maintenance. All components are specially coated to prevent corrosion and ensure that the homeowner will be satisfied for many years.

Flexibility – The AWS System 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.

Lead Time – We carry 36" (914 mm), 48" (1219 mm), 60" (1524 mm), and 72" (1829 mm) posts in stock, allowing CRL to respond almost instantly to your needs. This system can be installed during almost any phase of construction, allowing the builder or contractor important scheduling flexibility.

Integrity – The AWS System has been designed to provide a safe, transparent fence during high wind conditions. All glass installed must be fully tempered to meet all safety requirements and building codes.

Price – Because of this efficient design, our system is priced very competitively to other less attractive alternatives, such as wrought iron or wood fencing.

CRL AWS Aluminum Windscreen Systems

• Steel Embedment Keeps Aluminum Posts Out of Contact With Concrete, and Adds Structural Strength

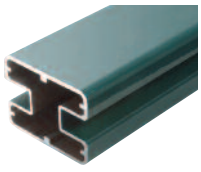
Unlike other glass wind wall systems, the AWS Aluminum Windscreen System keeps all aluminum out of contact with concrete. The lime in concrete is very corrosive to aluminum, and over time will degrade the physical properties of the components. The AWS System utilizes a painted steel embedment that supports 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 the other tradesmen are greatly reduced. These are strong attributes of the AWS System, and have a real value to the builder and property owner.

The AWS System was designed to be a wind wall that is very aesthetically pleasing. Because of the great design and the interaction with the steel insert, AWS has enhanced structural properties, allowing for increased height and span capabilities.

Available Post Configurations

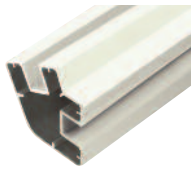
Use Only TEMPERED GLASS

2" x 2-5/8" (50.8 x 66.7 mm) Rectangular Aluminum Windscreen Post Profiles

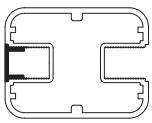


180 Degree Center/ End Post Kits

90 Degree Post Kits

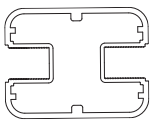


135 Degree Post Kits



End Posts

(See Page B441)

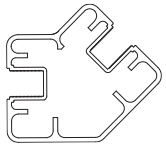


Center Posts

(See Page B441)

90 Degree Corner Post

(See Page B442)



135 Degree Post

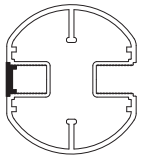
(See Page B443)

3" (76.2 mm) Round Aluminum Windscreen Post Profiles

180 Degree Center/ End Post Kits

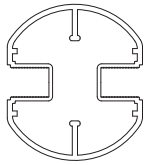
90 Degree Post Kits

135 Degree Post Kits



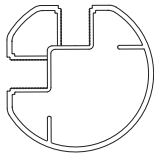
End Posts

(See Page B445)



Center Posts

(See Page B445)



90 Degree Corner Post

(See Page B446)

135 Degree Post

(See Page B447)

• Ready to Install
• Low Maintenance With Special Coating to Prevent Corrosion
• Seven Stock Colors, Plus Unfinished Chromate
• Custom Colors Also Available

STANDARD COLORS

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 AWS Aluminum Windscreen Systems

• Available in 3" Round, 2" x 2-5/8" Rectangular, and 4" Square Post Styles

Use Only 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.

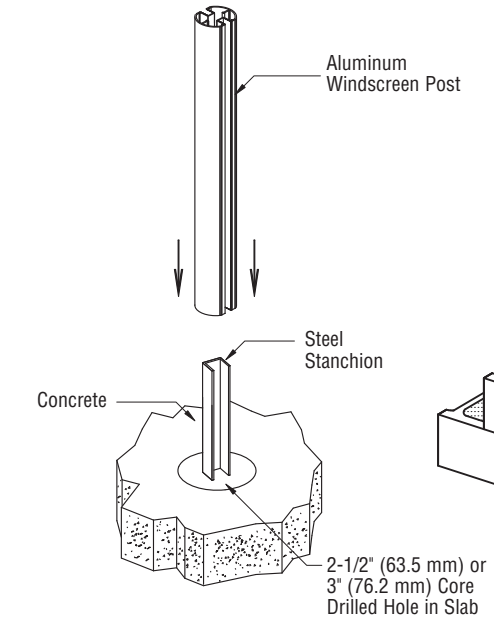
An added benefit of the steel embed is that the contractor can install the steel components early in the construction process, then install the painted aluminum post later when the chances of damage by other tradesmen are greatly reduced. These are strong attributes of the AWS System, and have a real value to the builder and homeowner.

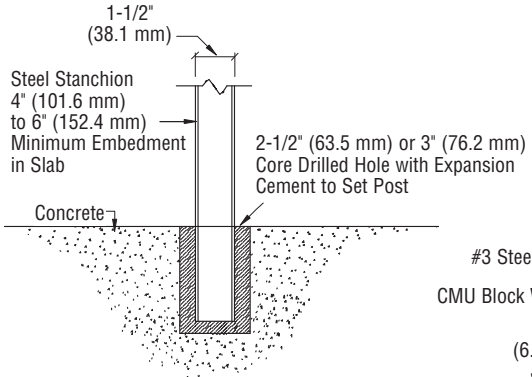
Another benefit of the AWS System is the fact that it was designed to be a wind wall system that is very aesthetically pleasing. Because of this improved design and the interaction with the steel insert, AWS has enhanced structural properties. Our system allows for increased height and span abilities.

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.

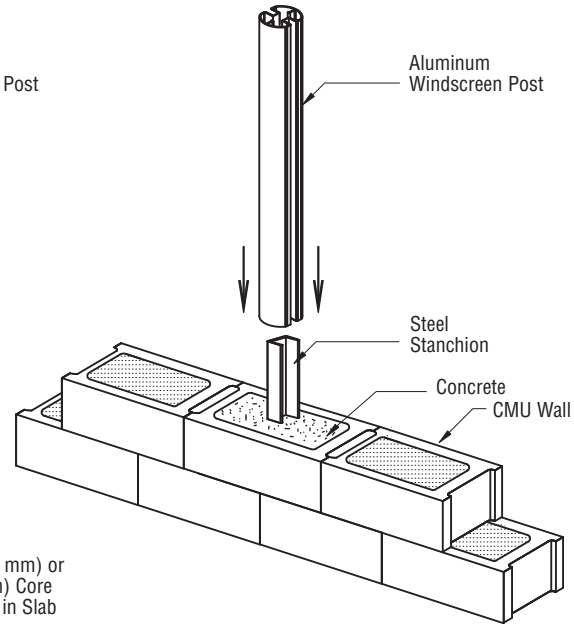
TYPICAL MOUNTING OPTIONS

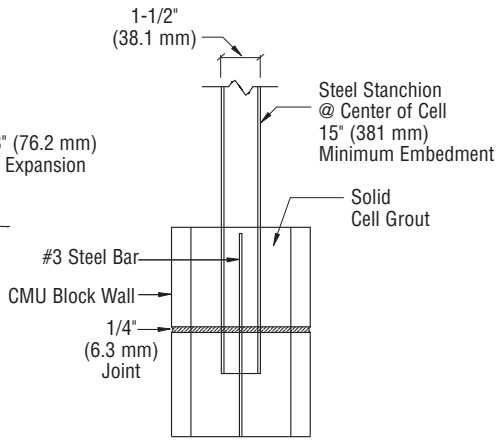
Core Mounted Installation for a Concrete Slab



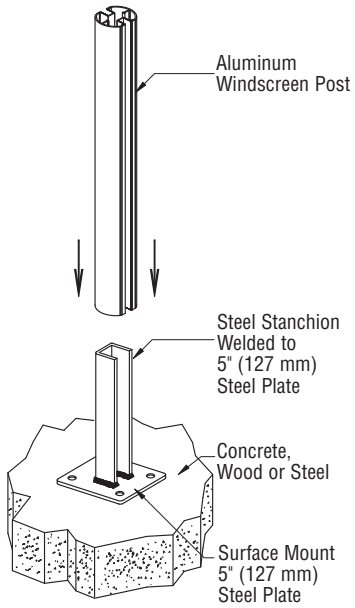


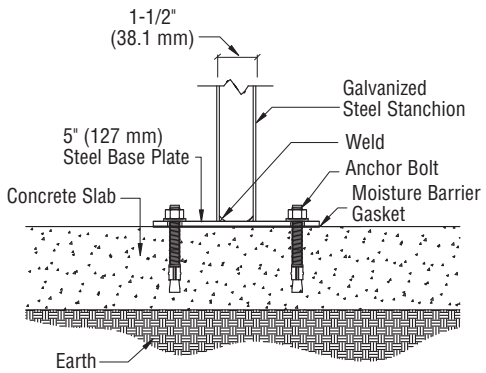
Core Mounted Installation for CMU Block Walls





Surface Mounted Installation for a Concrete Slab

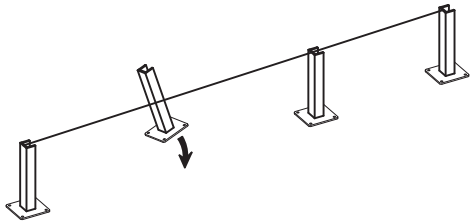




AWS Basic Installation Guidelines

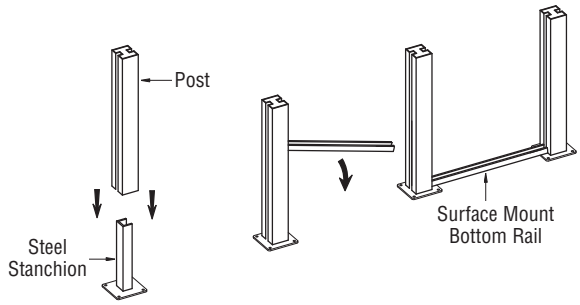
1.

- ✓ Core mount or surface mount the Steel Stanchions, starting with the End and Corner Posts first.
- ✓ Then run a straight line between your End Posts and/or Corner Posts before you set the Intermediate Posts.
- ✓ Be sure the Stanchions are plumb and level.
- ✓ **NOTE:** *When surface mounting to concrete, brick, masonry, or stucco make sure to install the Moisture Barrier Gasket between the bottom plate and substrate to prevent metal corrosion.*



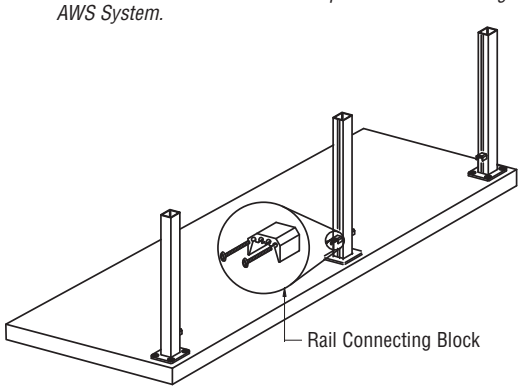
2a.

- ✓ Once the Steel Stanchions are installed, apply CRL 95C Silicone to the Stanchion before mounting the Post into place.
- ✓ If you are installing a Surface Mount Bottom Rail, measure and cut to the desired size, then install the Surface Mount Bottom Rail onto the substrate using CRL 95C Silicone.
- ✓ **NOTE:** *Surface Mount Bottom Rails are optional when installing the AWS System.*



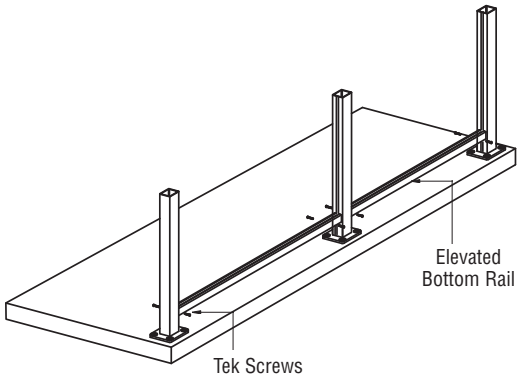
2b.

- ✓ If you are installing an Elevated Bottom Rail, Rail Connecting Blocks must be installed first.
- ✓ Install the Rail Connecting Blocks onto the Post using Cat. No. RCBS Self Tapping Screws. These Blocks are used to support the Bottom Rail.
- ✓ **NOTE**: *Elevated Bottom Rails are optional when installing the AWS System.*



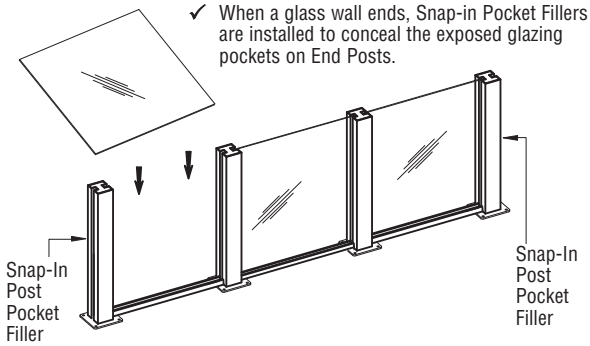
2c.

- ✓ Cut Elevated Bottom Rail to length. Mount the Bottom Rail onto the Blocks and secure with Cat. No. TEK1 Tek Screws.



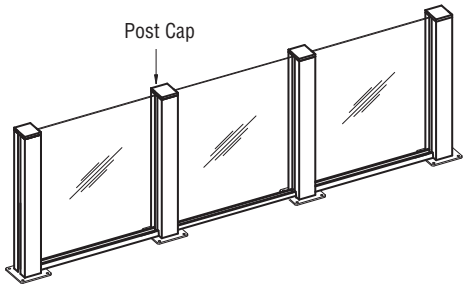
3.

- ✓ When installing the glass panels, make sure the rigid vinyl is installed into the glass pocket before installing the panels.
- ✓ Slide the glass panels down from the top of the Post. Make sure the vinyl is lubricated to protect the vinyl from damage during installation.
- ✓ When a glass wall ends, Snap-in Pocket Fillers are installed to conceal the exposed glazing pockets on End Posts.



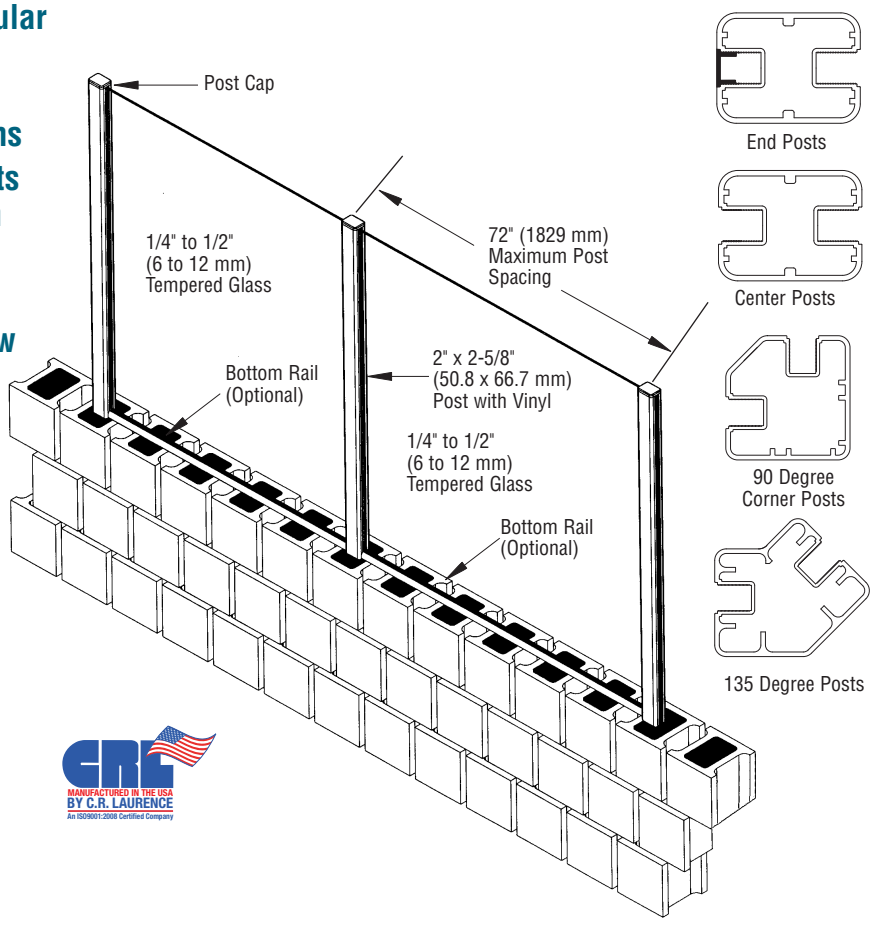
4.

- ✓ Install Post Caps with CRL 95C Silicone.
- ✓ To protect the glass from debris over time, use Cat. No. TPC16 Surface Protector to seal the glass.



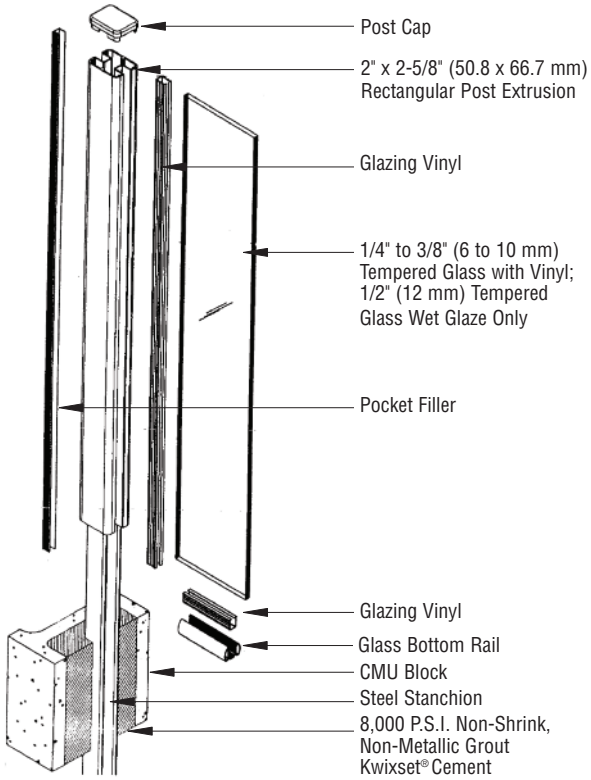
CRL AWS Rectangular Aluminum Windscreen System

- 2" x 2-5/8" (50.8 x 66.7 mm) Rectangular Aluminum Windscreen System
- Great for Pools, Balconies, Fencing, Steps, Slopes, and Many Other Options
- Low Maintenance With All Components Specially Coated to Prevent Corrosion
- 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
- Seven Standard Colors, Plus Unfinished Chromate Available in Stock. Custom Colors Also Available
- 36" (914 mm), 48" (1219 mm), 60" (1524 mm), and 72" (1829 mm) Standard Heights in Stock. Custom Heights Also Available
- Glazing Vinyl Available in Black Color
- Designed and Engineered to Meet or Exceed Building Codes



MANUFACTURED IN THE USA BY C.R. LAURENCE
An ISO9001:2008 Certified Company

NOTE: Not for use as a guard rail.



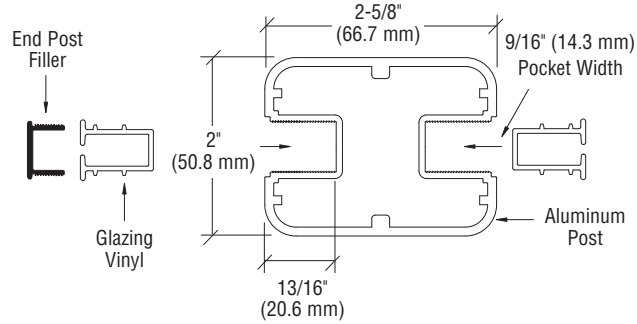
CRL AWS 2" x 2-5/8" Rectangular 180 Degree Center or End Post Kits

- Standard Kits Include Post, Top Cap, and Vinyl
- Seven Standard Colors, Plus Unfinished Chromate
- 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 Center Kits Include:

Standard End Kits Include:

These 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 unfinished chromate 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.



Use Only TEMPERED GLASS

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.
NOTE: Steel Stanchions sold separately, see pages B448-B449.

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.
NOTE: Steel Stanchions sold separately, see pages B448-B449.

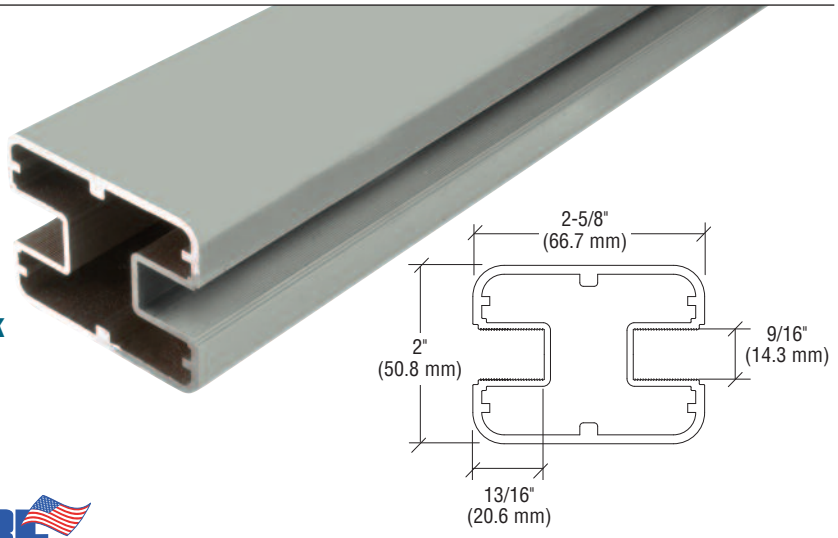
STANDARD COLORS

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 AWS 2" x 2-5/8" Rectangular 180 Degree Center or End Post Only

- Ready to Install
- Low Maintenance With Special Coating to Prevent Corrosion
- Four Standard Post Heights, Plus a Stock Length So You Can Cut Custom Heights
- Seven Stock Colors, Plus Unfinished Chromate
- Custom Colors Also Available



RECTANGULAR CENTER OR END POSTS

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 B451.

Use Only TEMPERED GLASS

STANDARD COLORS

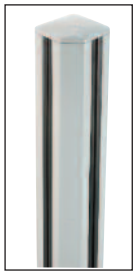
Colors shown are representative only, and may vary slightly from actual gloss, color, and texture. If color match is critical, please contact Technical Sales for additional information.

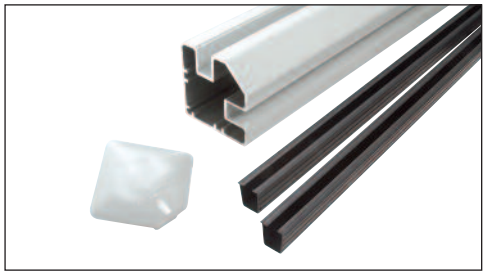
Additional Color Options - CRL has over 250 quick turn custom color options with the ability to color match as well.

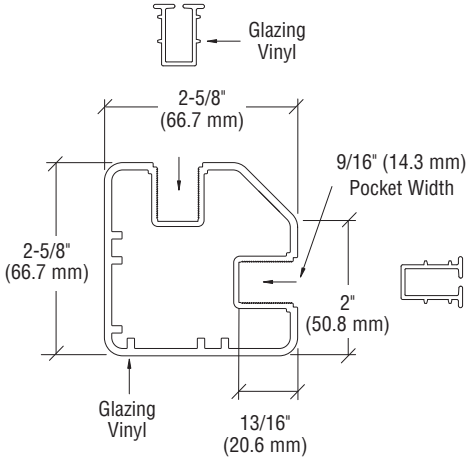
CRL AWS 2" x 2-5/8" Rectangular 90 Degree Corner Post Kits

- Standard Kits Include Post, Top Cap, and Vinyl
- Seven Standard Colors, Plus Unfinished Chromate
- 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:







These Kits are for fabricating posts used to join two panels at 90 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 unfinished chromate 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.

Use Only TEMPERED GLASS

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 pages B448-B449.

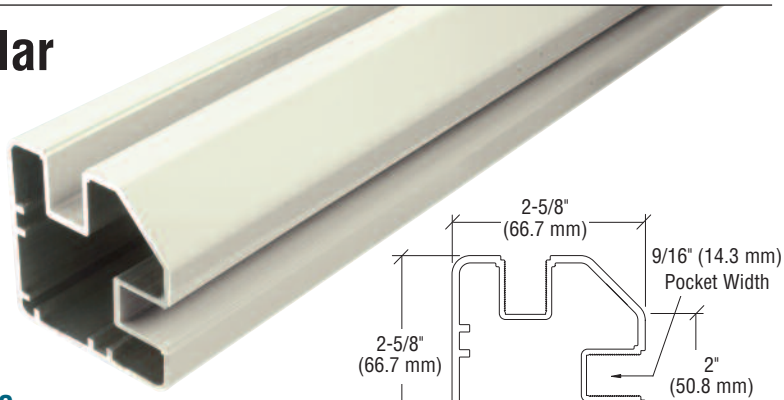
STANDARD COLORS

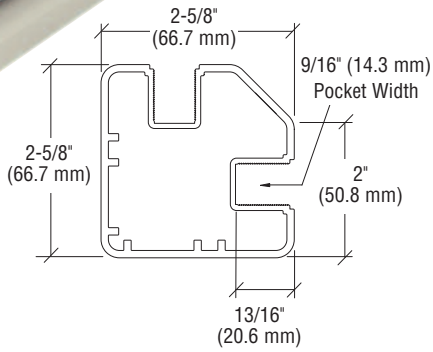
Colors shown are representative only, and may vary slightly from actual gloss, color, and texture. If color match is critical, please contact Technical Sales for additional information.

Additional Color Options - CRL has over 250 quick turn custom color options with the ability to color match as well.

CRL AWS 2" x 2-5/8" Rectangular 90 Degree Corner Post Only

- Ready to Install
- Low Maintenance With Special Coating to Prevent Corrosion
- Four Standard Post Heights, Plus a Stock Length So You Can Cut Custom Heights
- Seven Stock Colors, Plus Unfinished Chromate
- Custom Colors Also Available





RECTANGULAR CORNER POSTS

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.

Use Only TEMPERED GLASS

STANDARD COLORS

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.

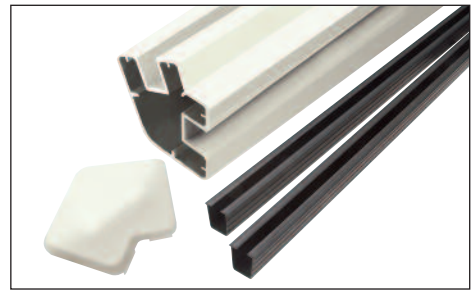
Additional Color Options - CRL has over 250 quick turn custom color options with the ability to color match as well.

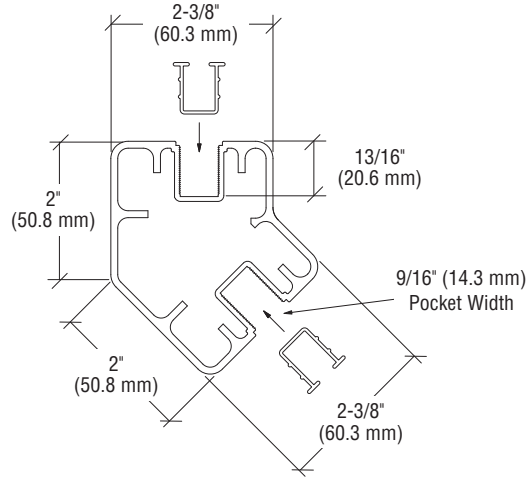
CRL AWS 2" x 2-3/8" Rectangular 135 Degree Post Kits

- Standard Kits Include Post, Top Cap, and Vinyl
- Seven Standard Colors, Plus Unfinished Chromate
- 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

These Kits are for fabricating posts used to join two panels at 135 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 unfinished chromate 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 135 Degree Kits Include:





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Use Only TEMPERED GLASS

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 pages B448-B449.

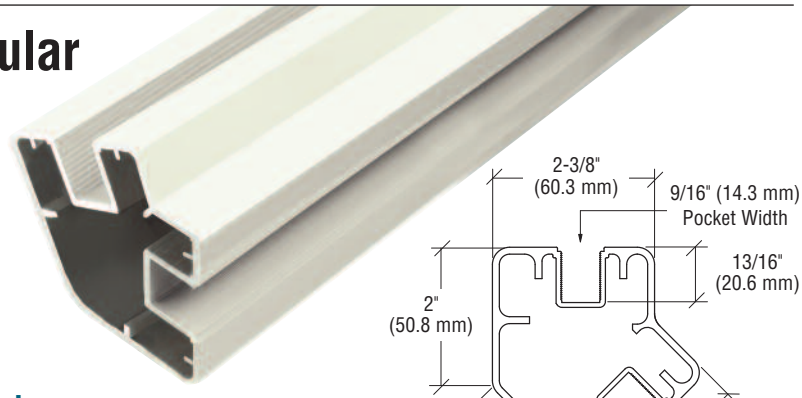
STANDARD COLORS

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 AWS 2" x 2-3/8" Rectangular 135 Degree Posts Only

- Ready to Install
- Low Maintenance With Special Coating to Prevent Corrosion
- Four Standard Post Heights, Plus a Stock Length So You Can Cut Custom Heights
- Seven Stock Colors, Plus Unfinished Chromate
- Custom Colors Also Available



RECTANGULAR 135 DEGREE POSTS

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.

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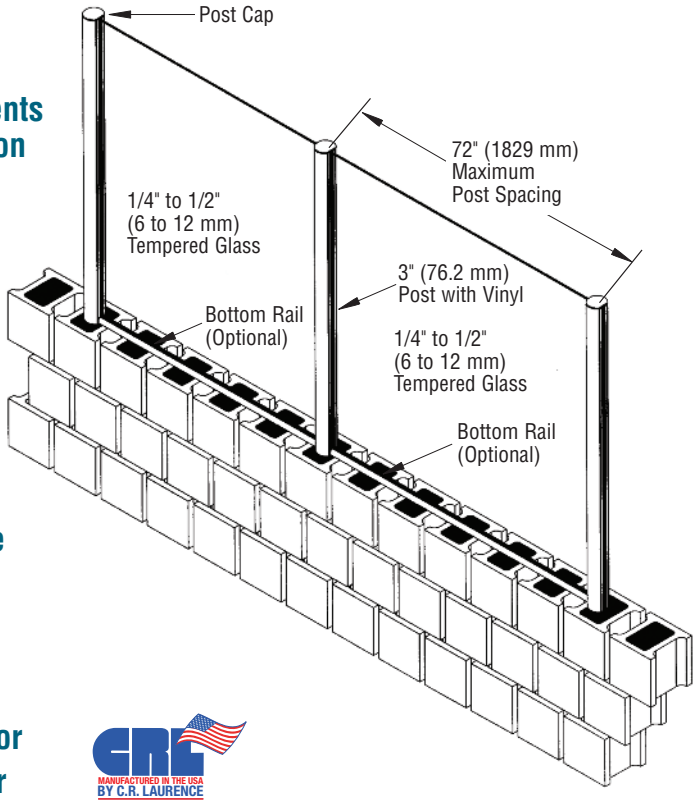
STANDARD COLORS

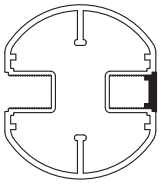
Colors shown are representative only, and may vary slightly from actual gloss, color, and texture. If color match is critical, please contact Technical Sales for additional information.

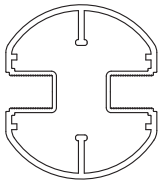
Additional Color Options - CRL has over 250 quick turn custom color options with the ability to color match as well.

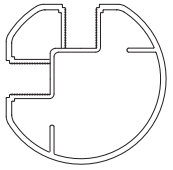
CRL AWS Round Aluminum Windscreen System

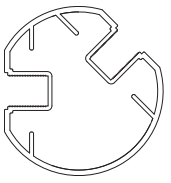
- 3" (76.2 mm) Diameter Aluminum Windscreen System for Pools, Balconies, Fencing, Steps, Slopes, and Many Other Options
- Low Maintenance With All Components Specially Coated to Prevent Corrosion
- Adapts Easily to a Wide Variety of Terrain and Wall Designs
- Provides a Virtually Unobstructed View
- Will Accommodate 1/4" (6 mm), 3/8" (10 mm), and 1/2" (12 mm) Wet Set Glazing
- Seven Standard Colors, Plus Unfinished Chromate Available in Stock. Custom Colors Also Available
- 36" (914 mm), 48" (1219 mm), 60" (1524 mm), and 72" (1829 mm) Standard Heights in Stock. Custom Heights Also Available
- Glazing Vinyl Available in Black Color
- Designed and Engineered to Meet or Exceed Building Codes



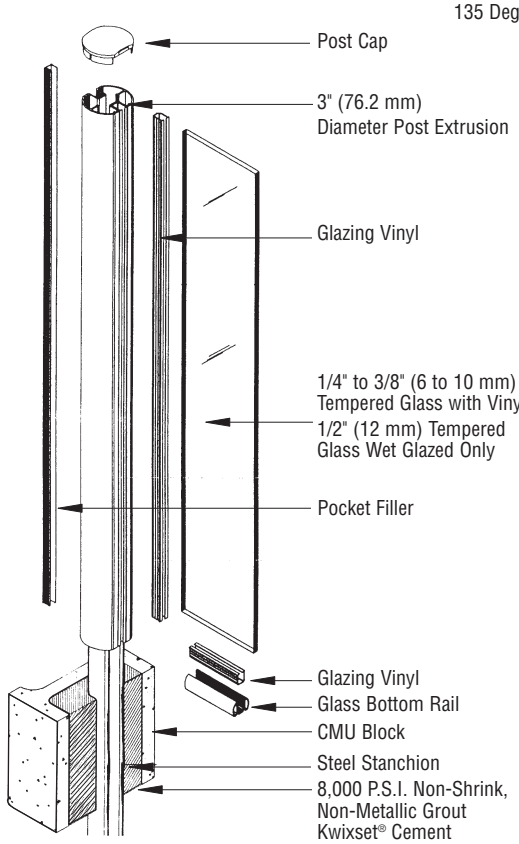

End Posts


Center Posts


90 Degree Posts


135 Degree Posts

NOTE: Not for use as a guard rail.



CRL AWS 3" Diameter Round 180 Degree Center or End Post Kits

- Standard Kits Include Post, Top Cap, and Vinyl
- Seven Standard Colors, Plus Unfinished Chromate
- 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

These 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 unfinished chromate 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:

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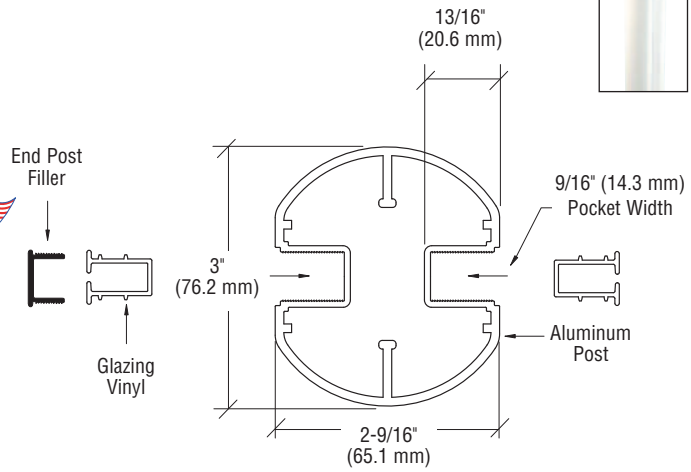


ROUND CENTER POST KITS

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.
NOTE: Steel Stanchions sold separately, see pages B448-B449.

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.
NOTE: Steel Stanchions sold separately, see pages B448-B449.

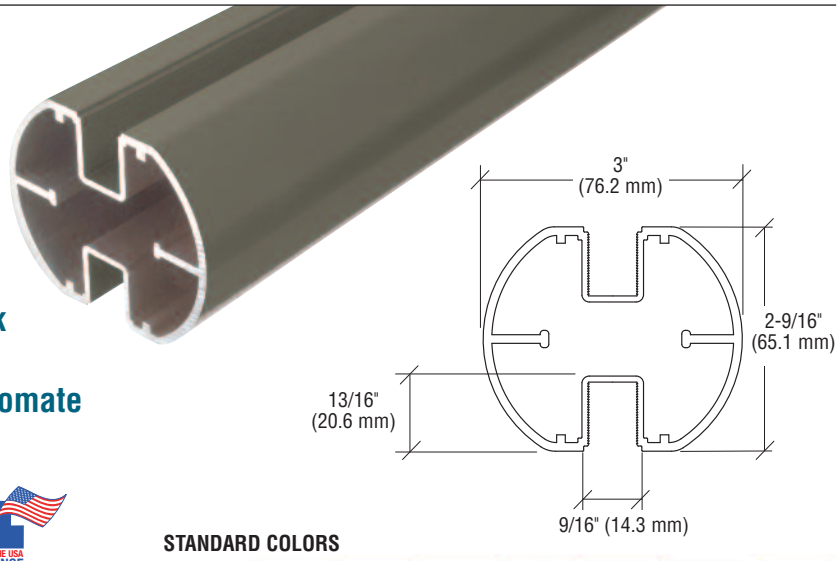
STANDARD COLORS

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 AWS 3" Diameter Round 180 Degree Center or End Post Only

- Low Maintenance With Special Coating to Prevent Corrosion
- Four Standard Post Heights, Plus a Stock Length So You Can Cut Custom Heights
- Seven Stock Colors, Plus Unfinished Chromate
- Custom Colors Also Available



ROUND CENTER OR END POSTS

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 B451.

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STANDARD COLORS

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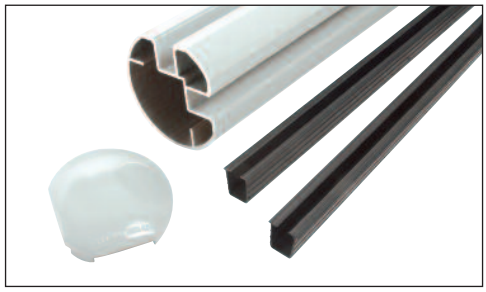
Additional Color Options - CRL has over 250 quick turn custom color options with the ability to color match as well.

CRL AWS 3" Diameter Round 90 Degree Corner Post Kits

- Standard Kits Include Post, Top Cap, and Vinyl
- Seven Standard Colors, Plus Unfinished Chromate
- 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:



These Kits are for fabricating posts used to join two panels at 90 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 unfinished chromate 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.

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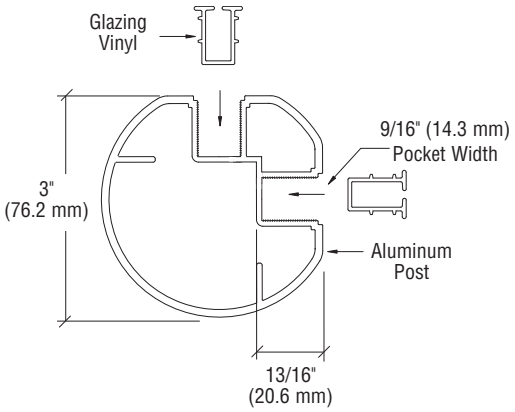

ROUND CORNER POST KITS

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 pages B448-B449.

STANDARD COLORS

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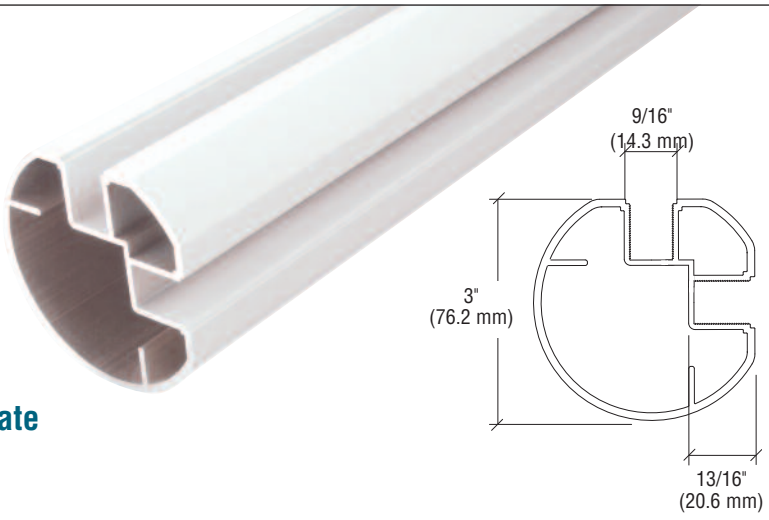
Additional Color Options - CRL has over 250 quick turn custom color options with the ability to color match as well.

CRL AWS 3" Diameter Round 90 Degree Corner Post Only

- Ready to Install
- Low Maintenance With Special Coating to Prevent Corrosion
- Four Standard Post Heights, Plus a Stock Length So You Can Cut Custom Heights
- Seven Stock Colors, Plus Unfinished Chromate
- Custom Colors Also Available



ROUND CORNER POSTS

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.

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Use Only TEMPERED GLASS

STANDARD COLORS

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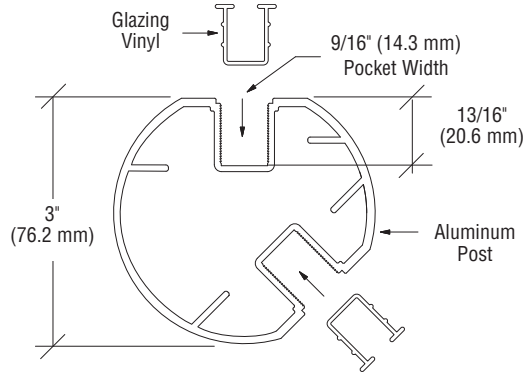
Additional Color Options - CRL has over 250 quick turn custom color options with the ability to color match as well.

CRL AWS 3" Diameter Round 135 Degree Post Kits

- Standard Kits Include Post, Top Cap, and Vinyl
- Seven Standard Colors, Plus Unfinished Chromate
- 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:

These Kits are for fabricating posts used to join two panels at 135 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 unfinished chromate 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.



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 pages B448-B449.

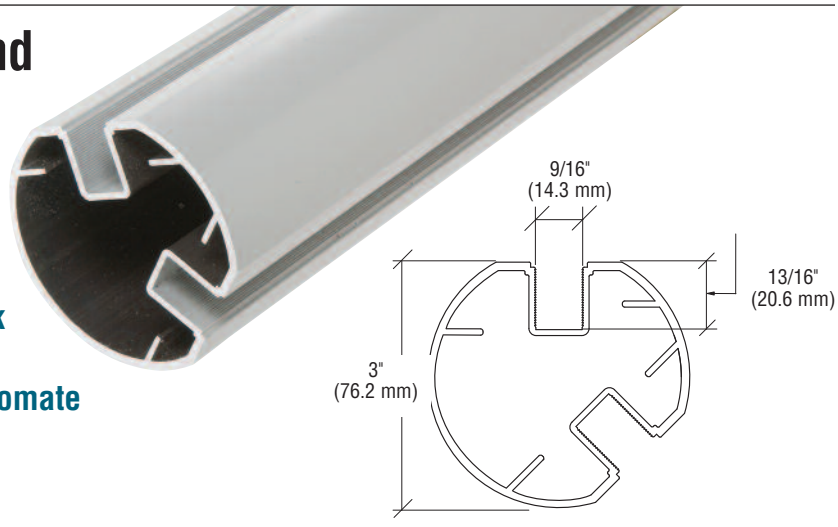
STANDARD COLORS

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 AWS 3" Diameter Round 135 Degree Post Only

- Ready to Install
- Low Maintenance With Special Coating to Prevent Corrosion
- Four Standard Post Heights, Plus a Stock Length So You Can Cut Custom Heights
- Seven Stock Colors, Plus Unfinished Chromate
- Custom Colors Also Available



ROUND 135 DEGREE POSTS

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.

STANDARD COLORS

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 AWS Core Mount Stanchions

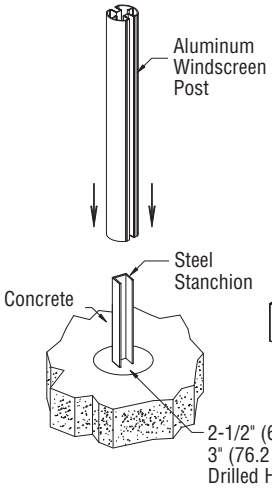
- **Galvanized to Prevent Corrosion**
- **Available in Four Different Sizes for Round or Rectangular Windscreen Posts**
- **Available in Stainless Steel for Coastal Installations**

AWS Core Mount Stanchions are available in Grade 50 Galvanized Steel or 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" (101.6 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).

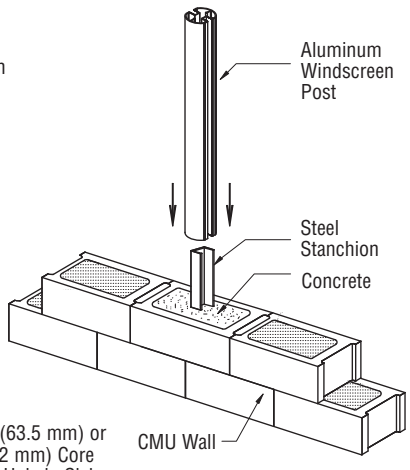
CAT. NO.	DESCRIPTION	HEIGHT	FOR POST HEIGHT	THICKNESS
PST1	Grade 50 Steel Stanchion	18" (457 mm)	Up to 36" (914 mm)	1/8" (3.2 mm)
PST2	Grade 50 Steel Stanchion	18" (457 mm)	Up to 48" (1219 mm)	1/4" (6.3 mm)
PST3	Grade 50 Steel Stanchion	30" (762 mm)	Up to 72" (1829 mm)	1/4" (6.3 mm)
PST4	304 Grade Stainless Steel Stanchion	30" (762 mm)	Up to 72" (1829 mm)	1/8" (3.2 mm)
PST6	Grade 50 Steel Stanchion	42" (1067 mm)	Special Conditions	1/4" (6.3 mm)

Minimum order: 1 pack. For Posts less than 30" (762 mm), the Stanchion can be cut to size.

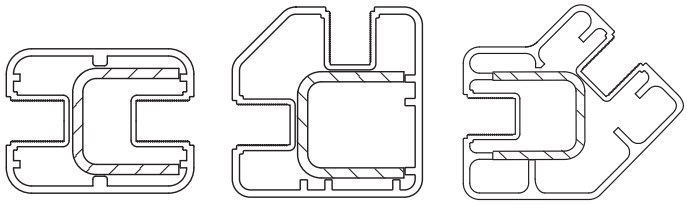
Core Mount Installation for a Concrete Slab



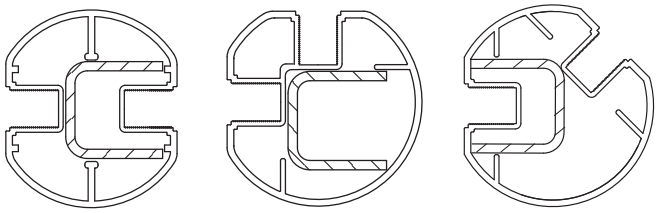
Core Mount Installation for CMU Block Walls



- **Fits All of Our Rectangular or Round Aluminum Posts**



Center or End Posts | 90 Degree Corner Posts | 135 Degree Posts



Center or End Posts | 90 Degree Corner Posts | 135 Degree Posts

CRL Kwixset® Expanding Cement

- **For Interior and Exterior Applications**
- **Fast Setting, Will Not Shrink or Crack**
- **Great for Setting Core Mount Stanchions for Vertical Posts**

SPEC. DATA MSDS

CRL Kwixset® is gray, hydraulic type cement that expands as it sets. When mixed with water it pours into place smoothly. Set time is within 15 to 20 minutes, and when fully cured it develops compression strength in excess of 8,000 lbs. per square inch. The perfect product to set railings, brackets, and other fixtures because it will not shrink, crack or dry out.

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

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

CRL AWS Welded Steel Surface Mount Stanchions

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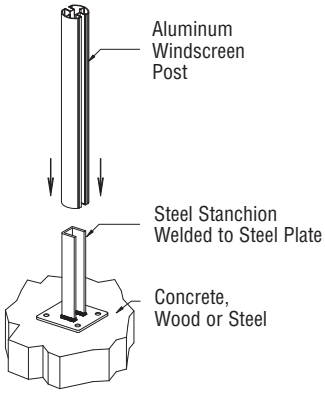
Use Only TEMPERED GLASS

- **Mounting Bases Available in Seven Standard Colors, Plus Unfinished Chromate 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**
- **Galvanized and Powder Coated to Prevent Corrosion**

AWS Welded Grade 50 Galvanized Steel Stanchions are for use on surface mount applications with our Aluminum Windscreen Posts. Stanchions are welded to a steel base plate, and then galvanized 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 unfinished chromate with custom colors available on special order. One each Moisture Barrier Gasket is included with each Stanchion.



STEEL STANCHIONS FOR POST HEIGHTS UP TO 24" (610 MM)

CAT. NO.*	STANCHION HEIGHT	DESCRIPTION
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 powder coat color when ordering.
Base measures 5" x 5" (127 x 127 mm) and is 3/8" (9.5 mm) thick.

STEEL STANCHIONS FOR POST HEIGHTS UP TO 48" (1219 MM)

CAT. NO.*	STANCHION HEIGHT	DESCRIPTION
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 powder coat color when ordering.
Base measures 5" x 5" (127 x 127 mm) and is 3/8" (9.5 mm) thick.

STEEL STANCHIONS FOR POST HEIGHTS UP TO 72" (1829 MM)

CAT. NO.*	STANCHION HEIGHT	DESCRIPTION
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 powder coat color when ordering.
Base measures 6" x 6" (152 x 152 mm) and is 7/16" (11.1 mm) thick.

STANDARD COLORS

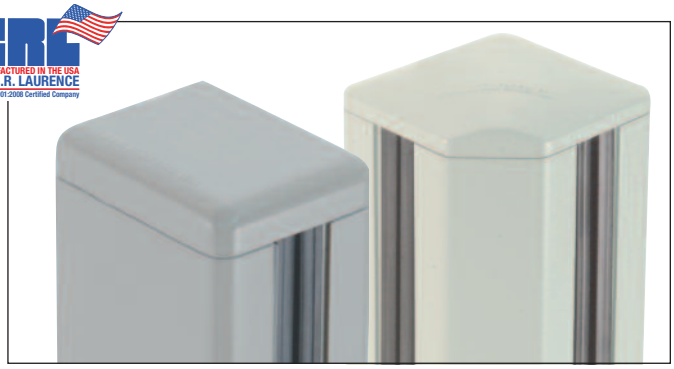
Colors shown are representative only, and may vary slightly from actual gloss, color, and texture. If color match is critical, please contact Technical Sales for additional information.

Additional Color Options - CRL has over 250 quick turn custom color options with the ability to color match as well.

CRL AWS Rectangular Post Caps

- Ready to Install
- Available in Seven Standard Colors, Plus Unfinished Chromate
- Attaches to Post Using CRL's 95CBL Silicone

Rectangular Post Top Caps slip easily into our Post Extrusions. Use our Cat. No. 95C Silicone (see page B453) to secure and fasten Caps to Posts. Standard colors are shown on page B449. Additional color options include over 250 quick turn custom colors, as well as the ability to color match to your requirements.

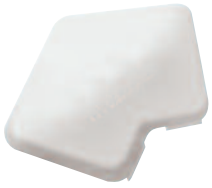


Caps for 180 Degree Center Posts or End Posts

CAT. NO.	COLOR
PC1SW	Sky White
PC1S0W	Oyster White
PC1SAGY	Agate Gray
PC1SBGY	Beige Gray
PC1SBL	Matte Black
PC1SBRZ	Matte Bronze
PC1SS	Silver Metallic
PC1SCRM	Chromate

Minimum order: 1 each.

Caps for 135 Degree Posts



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	Chromate

Minimum order: 1 each.

Caps for 90 Degree Corner Posts

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	Chromate

Minimum order: 1 each.

CRL AWS Round Post Caps

- Ready to Install
- Available in Seven Standard Colors, Plus Unfinished Chromate

Round Post Top Caps slip easily into our Post Extrusions. Use our Cat. No. 95C Silicone (see page B453) to secure and fasten Caps to Posts. Standard colors are shown on page B449. Additional color options include over 250 quick turn custom colors, as well as the ability to color match to your requirements.

Caps for 180 Degree Center Posts 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	Chromate

Minimum order: 1 each.

Caps for 135 Degree Posts

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	Chromate

Minimum order: 1 each.

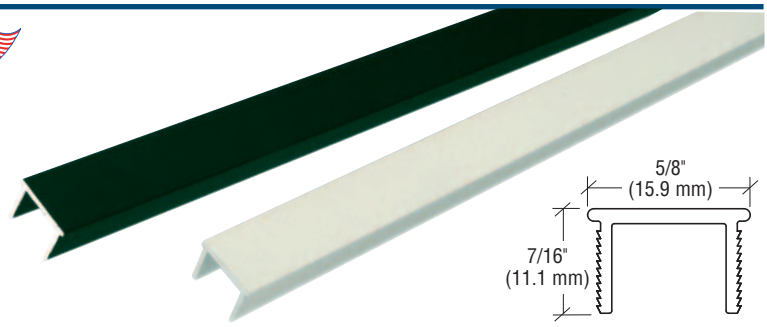
Caps for 90 Degree Corner Posts

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	Chromate

Minimum order: 1 each.

CRL AWS Windscreen Post Pocket Fillers

- Ready to Snap Into Glass Pocket
- Low Maintenance, With Special Coating to Prevent Corrosion
- Seven Standard Colors, Plus Unfinished Chromate



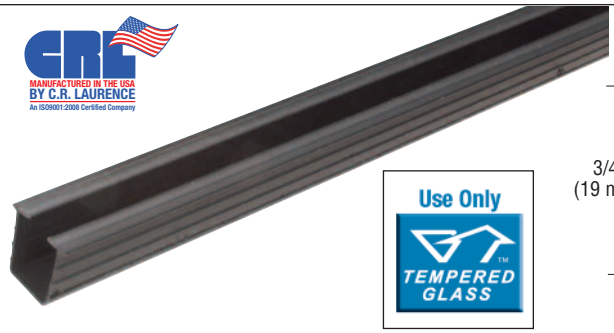
CAT. NO.*	LENGTH
PF36	36" (914 mm)
PF48	48" (1219 mm)
PF60	60" (1524 mm)
PF72	72" (1829 mm)
PF194	241" (6.12 m)#

Minimum order: 1 each. *Specify powder coat color when ordering. See page B449 for color chart. # Must ship common carrier.

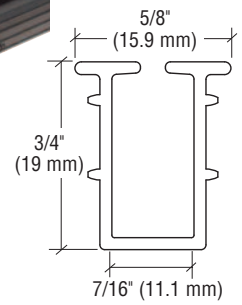
CRL AWS Windscreen Post Pocket Fillers are designed to be snapped into the glass pocket of the Windscreen Post where glass will not be used. No tools or adhesives are required, and they can be removed to reconfigure post layouts if required. All Post Pocket Fillers are low maintenance, with a special coating to prevent corrosion. Fillers are available in the same seven standard colors as our Windscreen Posts, plus unfinished chromate. 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



Use Only TEMPERED GLASS



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. # Must ship common carrier.

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" (15.9 mm).

CRL AWS Bottom Rail Kits With Rigid Glazing Vinyl

- Low Maintenance, With a Special Coating to Prevent Corrosion
- Designed to Accommodate 1/4" and 3/8" (6 and 10 mm) Tempered Glazing
- Seven Standard Colors, Plus Unfinished Chromate
- Custom Colors Also Available

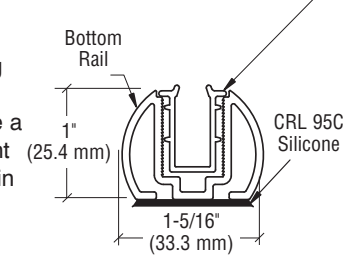
Use Only TEMPERED GLASS

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.

CAT. NO.*	LENGTH
BR36K	36" (914 mm)
BR48K	48" (1219 mm)
BR60K	60" (1524 mm)
BR72K	72" (1829 mm)
BR194	241" (6.12 m)#

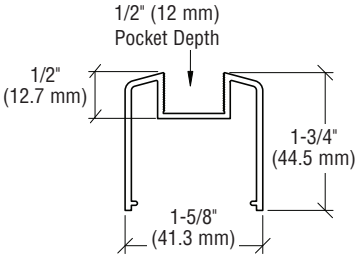
Minimum order: 1 each. *Specify powder coat color when ordering. See page B449 for color chart. # Must ship common carrier.

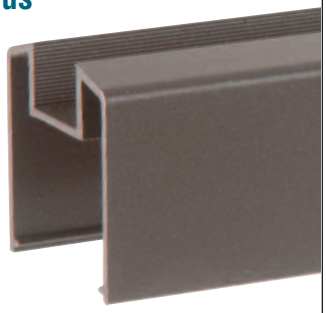
AWS Bottom Rails are designed to be mounted to a substrate using Cat. No. 95C Silicone (see page B453). All AWS Bottom Rails have a special chromate coating to prevent corrosion, and are powder coated in the stock colors to match our Windscreen Posts. Kits include a length of Rigid Glazing Vinyl.



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 Unfinished Chromate**





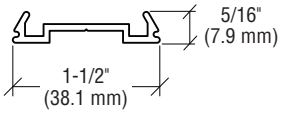
CAT. NO.	COLOR
BRGLSW	Sky White
BRGLSOW	Oyster White
BRGLSAGY	Agate Gray
BRGLSBGY	Beige Gray
BRGLSBL	Matte Black
BRGLSBRZ	Matte Bronze
BRGLSS	Silver Metallic
BRGLSCRM	Chromate

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 Unfinished Chromate**



CAT. NO.	COLOR
BRF241W	Sky White
BRF241OW	Oyster White
BRF241AGY	Agate Gray
BRF241BGY	Beige Gray
BRF241BL	Matte Black
BRF241BRZ	Matte Bronze
BRF241S	Silver Metallic
BRF241CRM	Chromate

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).

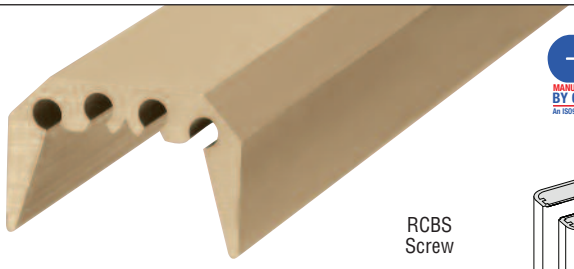
CRL Rail Connecting Blocks

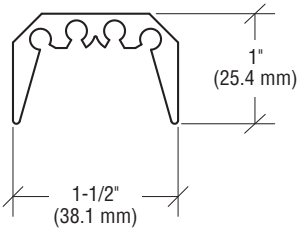
- **For Use When Installing Bottom Rails**
- **Three Standard Lengths Available**

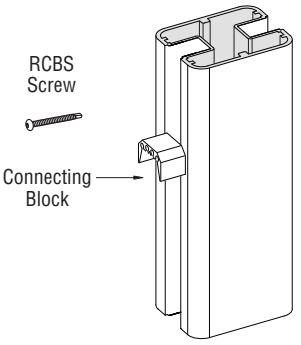
Use CRL Rail Connecting Blocks to connect Bottom Rails to vertical posts. Screw Blocks through outer two screw race locations on post using Cat. No. RCBS Rail Connecting Block Screws (see page B454). Miter cut the 12" or 241" lengths when building angles and slopes. All Connecting Blocks are extruded aluminum with a weather resistant chromate finish.

CAT. NO.	LENGTH
RCB2	1" (25.4 mm)
RCB212	12" (305 mm)
RCB2241	241" (6.12 m)#

Minimum order: 1 each. # Must ship common carrier.



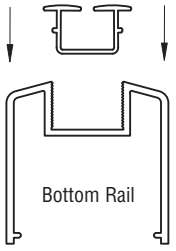


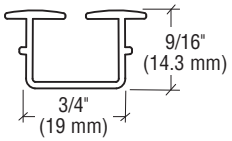


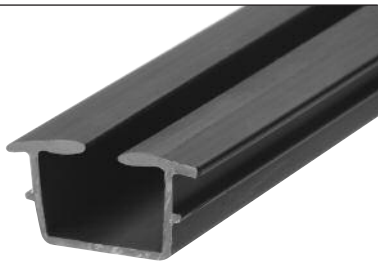
CRL Bottom Rigid Glazing Vinyl

- **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).







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 Packaging Charge will be added to orders of fewer than five combined lenghts. Must ship common carrier.

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 an Innovative Screw-On Nozzle
- Custom Colors Available

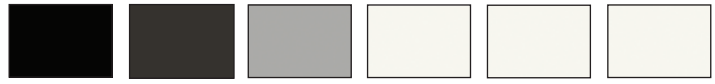
10.3 Fl. Oz. (305 ml) Cartridges;
30 Cartridges Per Case;
1440 Cartridges Per Pallet

COLOR new

MSDS

SPEC. DATA

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).

CAT. NO.		FINISH
95CBL		Black
95CDBRZ		Dark Bronze
95CGRY		Gray
95CL		Limestone
95CW		Precast White
95CWHT	NEW	White

Minimum order: 1 each. Colors can be combined for quantity pricing. Also available in 2 and 4.5 gallon pails.

CRL Lacquer Blend Touch-Up Paint

- Matches Seven Standard CRL Powder Paint Colors (See Page B449)
- Used to Cover Scratches or Bare Metal Ends

NO AIR FREIGHT

MSDS

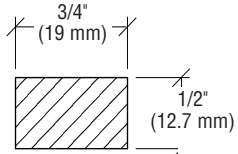
Use CRL Lacquer Blend Touch-Up Paint to cover scratches or bare metal ends. It can be applied at the job site, thus eliminating the need for costly dismantling and reassembling of the affected parts. Touch-Up Paint is a cost and labor saver. 12 oz. (340 g) per can.

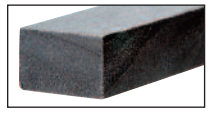
CAT. NO.	FINISH
SP8W	Sky White
SP80W	Oyster White
SP8AGY	Agate Gray
SP8BGY	Beige Gray
SP8BL	Matte Black
SP8BRZ	Matte Bronze
SP8S	Silver Metallic

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

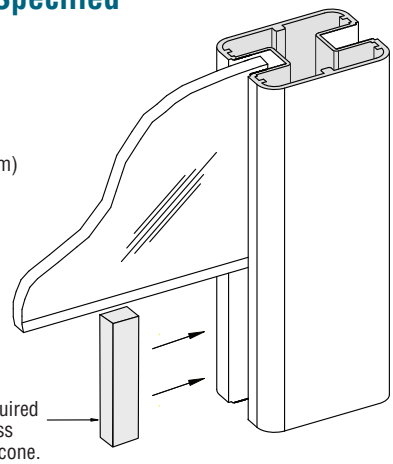
CRL Glass Pocket Setting Block for Windscreen Posts

- Can Be Easily Cut to Any Length
- Will Not Compress Under Glass Weight
- Black in Color





- Designed for Applications Where No Bottom Rail is Specified



Setting Block is Cut to Required Length and Inserted in Glass Pocket with our 95CBL Silicone.

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.

CAT. NO.	THICKNESS	WIDTH	LENGTH
WPSB1	1/2" (12.7 mm)	3/4" (19 mm)	24" (610 mm)

Minimum order: 1 each.

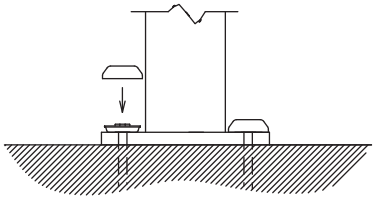
CRL Color Match Bolt Cover Buttons

- **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.

Button Snaps on Washer to Conceal Anchor Head

Button Diameter: 1-3/16" (30.1 mm) Button Height: 3/8" (9.5 mm)



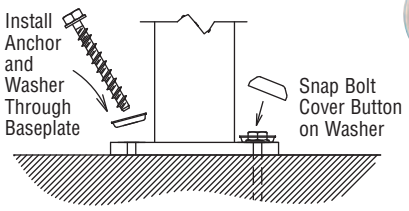
CAT. NO.	COLOR
BTN1W	Sky White
BTN10W	Oyster White
BTN1AGY	Agate Gray
BTN1BGY	Beige Gray
BTN1BL	Matte Black
BTN1BRZ	Matte Bronze
BTN1DS	Dark Silver

Minimum order: 50 each. Must be ordered in increments of 50. See page B449 for color chart.

CRL Stainless Steel Button Washer

- **304 Grade Stainless Steel**
- **Sleek Design Allows Bolt Cover Buttons to Snap Over the Stainless Steel Washer**

1" (25.4 mm) diameter Stainless Steel Washer with a 7/16" (11.1 mm) hole. Designed to accept CRL Color Match Bolt Cover Buttons.



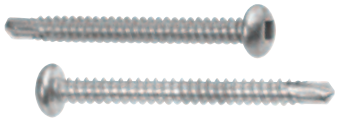
CAT. NO.	DIAMETER	HOLE	THICKNESS
WSHR1	1" (25.4 mm)	7/16" (11.1 mm)	1/8" (3.2 mm)

Minimum order: 50 each. Must be ordered in increments of 50.

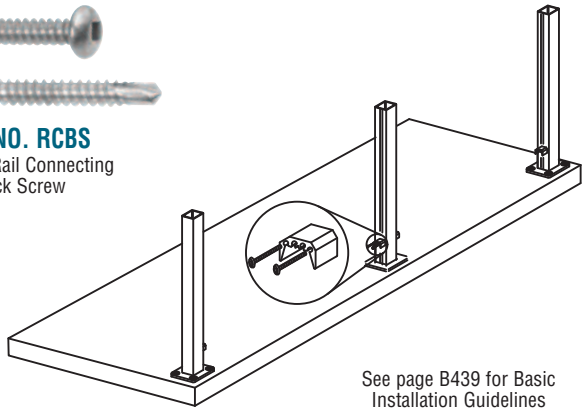
CRL Rail Connecting Block Screws

- **For Holding Rail Connecting Blocks to the Post**
- **Self-Tapping**
- **304 Stainless Steel**

CAT. NO. 9502
Square Insert Bit



CAT. NO. RCBS
#10 x 2" Rail Connecting Block Screw



See page B439 for Basic Installation Guidelines

Use CRL Rail Connecting Block Screws when installing RCB2 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" (50.8 mm) ▲
9502	Square Insert Bit for Screws	1/8" (3 mm) #

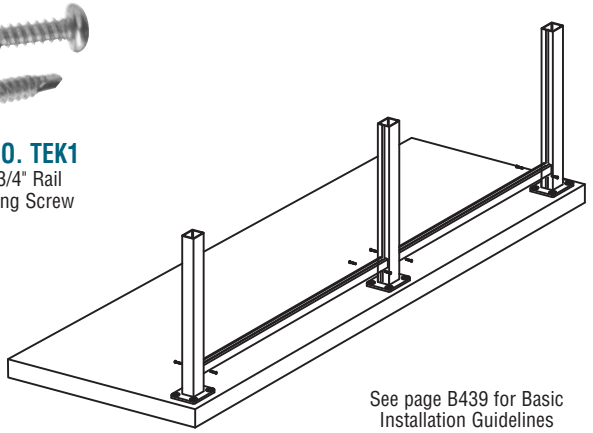
▲ Minimum order: 50 each. Must be ordered in increments of 50. # Minimum order: 1 each.

CRL Tek Screws

- **Holds Elevated Bottom Rail to Rail Connecting Blocks**
- **Self-Tapping**
- **304 Stainless Steel**

CAT. NO. 9502
Square Insert Bit

CAT. NO. TEK1
#8 x 3/4" Rail Fastening Screw



See page B439 for Basic Installation Guidelines

Use CRL Self-Tapping Tek Screws when installing bottom rails onto Rail Connecting Blocks (RCB2). 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) #

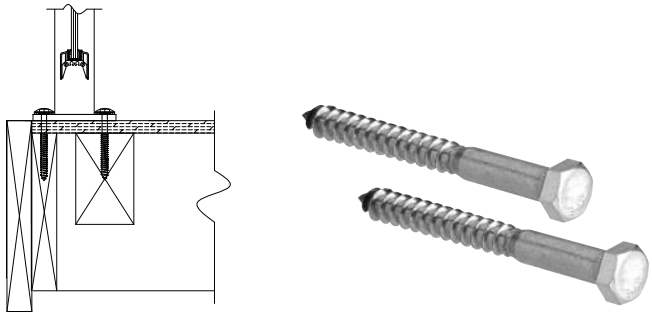
▲ Minimum order: 50 each. Must be ordered in increments of 50. # Minimum order: 1 each.

CRL Lag Bolts

- **Attach Vertical Posts to a Wooden Substrate**
- **304 Stainless Steel**

Use CRL Lag Bolts with CRL Stainless Steel Washers (WSHR1) and Color Match Bolt Cover Buttons (BTN1) to create a finished look. All Lag Bolts are designed to attach to a wooden substrate. See next page for Color Match Bolt Cover Buttons and Stainless Steel Washers.

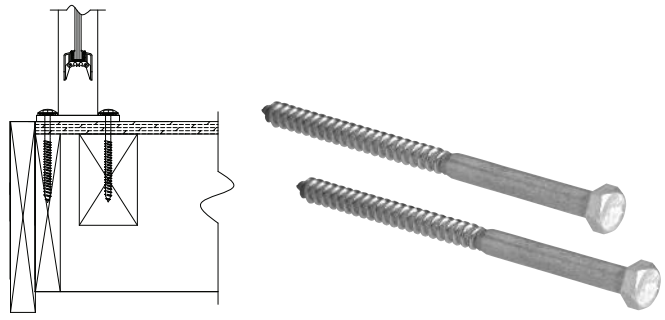
CRL 3/8" x 3-1/2" Lag Bolts



CAT. NO.	SIZE	LENGTH	QTY/BOX
LB350	3/8" (9.5 mm)	3-1/2" (88.9 mm)	20

Minimum order: 20 each.

CRL 3/8" x 6" Lag Bolts



CAT. NO.	SIZE	LENGTH	QTY/BOX
LB600	3/8" (9.5 mm)	6" (152.4 mm)	20

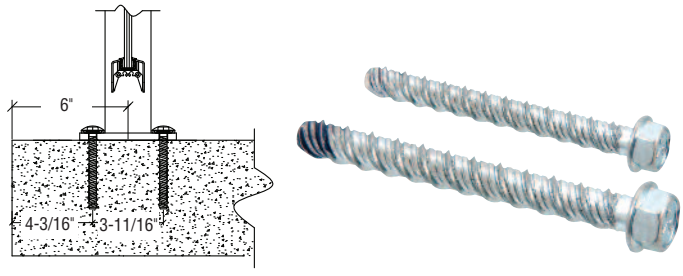
Minimum order: 20 each.

CRL Concrete Anchors

Use CRL Concrete Anchors for a sturdy attachment to all Concrete Substrates. All CRL Concrete Anchors deliver optimum performance.

CRL Wedge-Bolt Anchors

- **Heat Treated Carbon Steel Anchors Used to Attach Vertical Posts to Concrete Substrate**



CAT. NO.	SIZE	LENGTH	QTY/BOX
WBA14X3	1/4" (6.3 mm)	3" (76.2 mm)	50
WBA38X4	3/8" (9.5 mm)	4" (101.6 mm)	50

Minimum order: 50 each.

Hilti® HSL-3 Heavy-Duty Concrete Expansion Anchors

- **Delivers Optimum Performance in Cracked Concrete in the Tension Zone, Resulting in Excellent Load**
- **Optimized Design Provides Reliable Performance in a Wide Range of Applications**

CAT. NO.	SIZE	LENGTH	QTY/BOX
EBA334	M8" (5/16 mm)	3-7/8" (98 mm)	10

Minimum order: 10 each. Requires a 1/2" (12 mm) hole diameter in concrete.

CRL 4" x 4" Square Windscreen Post System

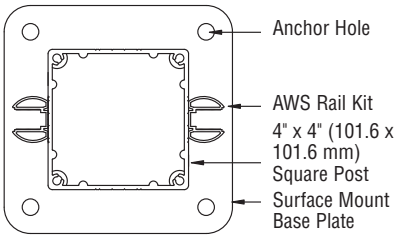
- **Heights Up to 48" (1219 mm) for Surface Mount Applications**
- **Seven Standard Powder Coated Colors, Plus Unfinished Chromate**
- **Custom Colors Also Available**
- **Accommodates 1/4" to 3/8" (6 to 10 mm) Tempered Glass Dry Glazed With Vinyl**
- **Accommodates 1/2" (12 mm) Tempered Glass When Wet Glazed**

Use Only TEMPERED GLASS

With seven standard colors available plus unfinished chromate, 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" 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.

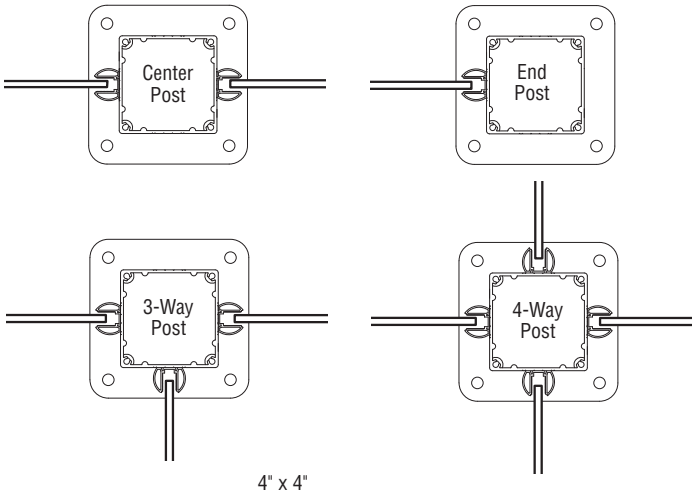
Top view of 4" x 4" Square Post with Standard Cap

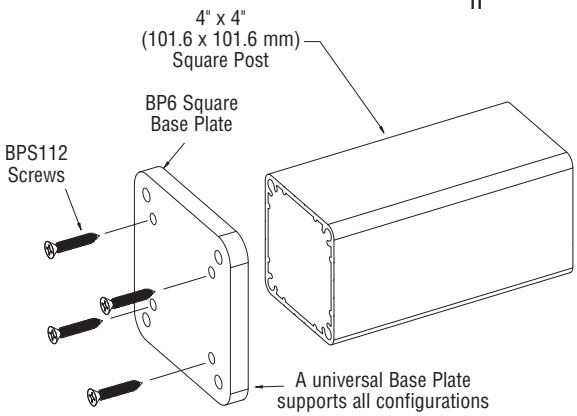
CAT. NO. BREC1*
Glazing Channel End Cap
*Specify color when ordering



Only a few components are required to fabricate these sturdy posts

• Available Configurations Include





STANDARD COLORS

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 4" x 4" Square Surface Mount Post Kits

- 4" (101.6 mm) Square Posts Designed for Use in Our 4" x 4" Square Windscreen Post System
- Use for Center, End or 90 Degree Corners
- Available in Three Different Heights
- Seven Attractive Colors, Plus Unfinished Chromate Available From Stock
- Custom Powder Coat Colors Also Available

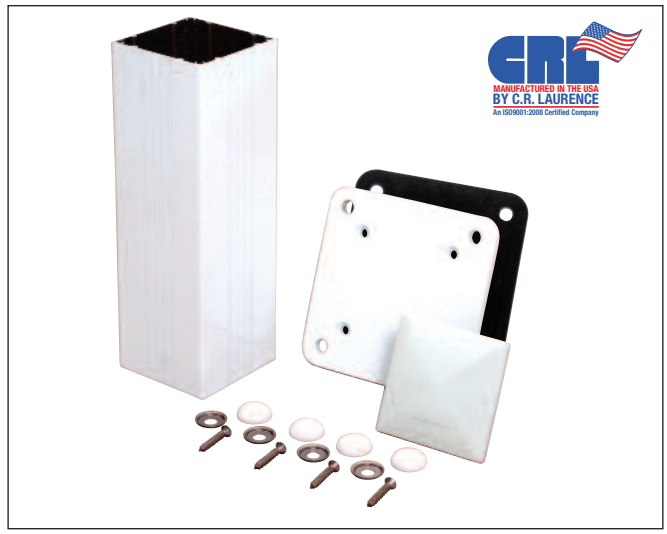
- Complete With Post, Top Cap, Base Plate, Moisture Barrier Gasket, Screws, Stainless Washers, and Bolt Cover Buttons

CRL Standard 4" x 4" 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 B381 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 unfinished chromate. Custom heights and colors are also available.

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 powder coat color when ordering.

STANDARD KITS INCLUDE:



STANDARD COLORS

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.

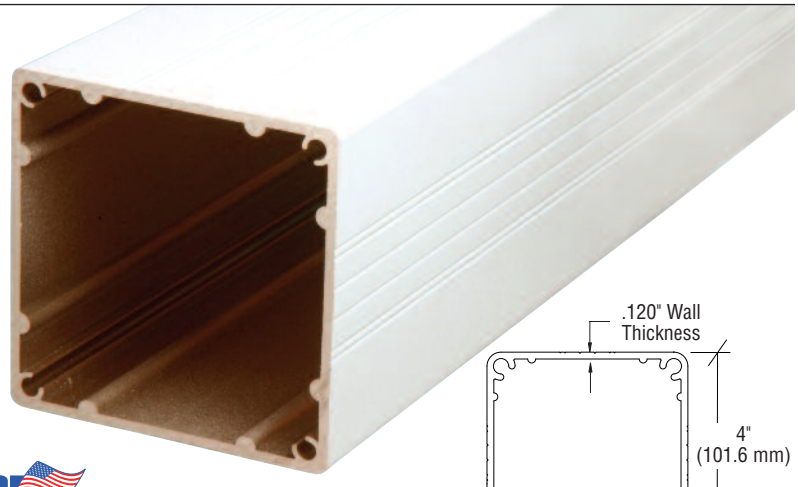
CRL Standard 4" x 4" Square Posts Only

- 4" (101.6 mm) Square Post Designed for Use in Our 4" x 4" Square Windscreen Post System
- Use for Center, End or 90 Degree Corners
- Seven Attractive Colors, Plus Unfinished Chromate Available From Stock
- Custom Powder Coat Colors Also Available

CRL Standard 4" x 4" Square Aluminum Posts are available in your choice of three heights and seven attractive colors. Custom heights and colors are also available. You can also order our 20'-1" (6.12 mm) stock length to cut posts of any height required. Posts are designed to mount onto concrete, wood, steel, and other substrates.

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 powder coat color when ordering.
Must ship common carrier.



STANDARD COLORS

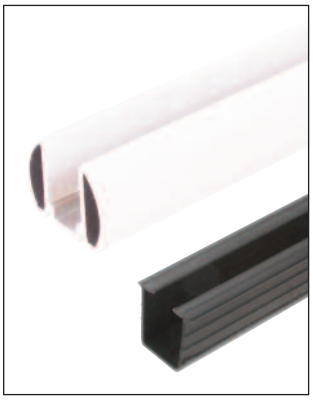
Colors shown are representative only, and may vary slightly from actual gloss, color, and texture. If color match is critical, please contact Technical Sales for additional information.

Additional Color Options - CRL has over 250 quick turn custom color options with the ability to color match as well.

CRL AWS Rail Kits

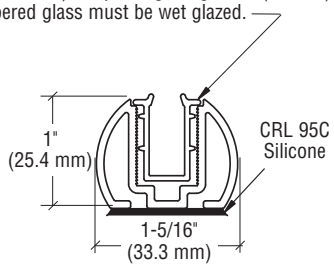
- **For Use With Our 4" x 4" Square Posts**
- **Forms Side Channel to Accommodate 1/4" and 3/8" (6 and 10 mm) Tempered Glazing**

MANUFACTURED IN THE USA BY C.R. LAURENCE
An ISO9001:2008 Certified Company



AWS Rail Kits are used to form the side rails on our 4" x 4" Square Posts. Seven colors, plus unfinished chromate, match our 4" x 4" Square Posts exactly. 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.

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.



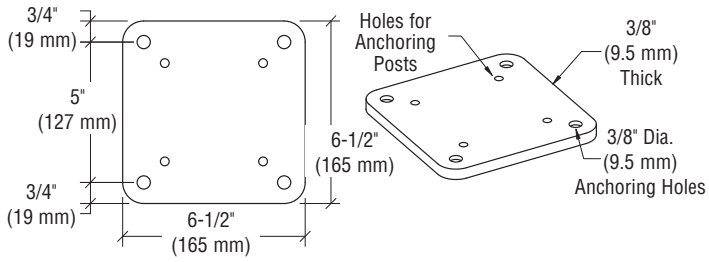
CAT. NO.*	LENGTH
BR36K	36" (914 mm)
BR48K	48" (1219 mm)
BR60K	60" (1524 mm)
BR72K	72" (1829 mm)
BR194	241" (6.12 m)#

Minimum order: 1 each. *Specify powder coat color when ordering. See previous page for color chart. # Must ship common carrier.

CRL 6-1/2" Square Base Plates

- **For Use With Our 4" x 4" Square Posts**

This Square Base Plate screws into our 4" x 4" Square 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 B381). Use Stainless Steel Washers (WSHR1) and Color Match Bolt Cover Buttons (BTN1) to add a finished look. One each Moisture Barrier Gasket Cat. No. BPG3BL is included with each Base Plate. See page B382 for Replacement Gaskets.

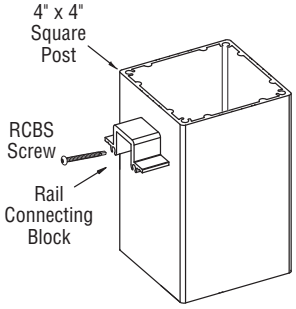


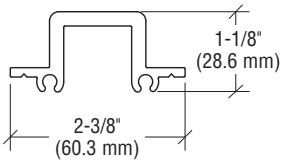
CAT. NO.	COLOR
BP6W	Sky White
BP60W	Oyster White
BP6AGY	Agate Gray
BP6BGY	Beige Gray
BP6BL	Matte Black
BP6BRZ	Matte Bronze
BP6S	Silver Metallic
BP6CRM	Chromate

Minimum order: 1 each. See previous page for color chart.

CRL Standard Post Rail 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 B375). 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.

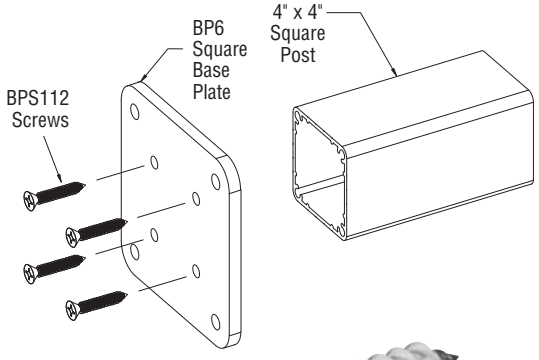
CAT. NO.	LENGTH
RCB4	1" (25.4 mm)
RCB412	12" (305 mm)
RCB4241	241" (6.12 m)#

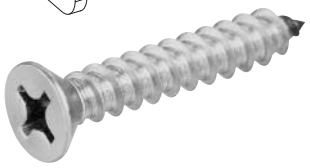
Minimum order: 1 each. # Must ship common carrier.

CRL Base Plate Screws

- **Stainless Steel Screws for Use With All Square Base Plates**

The CRL Base Plate Screw is designed to secure Base Plates into the raceways of 4" x 4" Square Posts. Phillips Head Screw fits flush beneath the BP6 Base Plate.





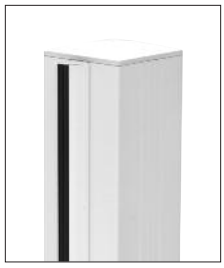
CAT. NO.	DESCRIPTION	SIZE
BPS112	Base Plate Screw	#14 x 1-1/2" (38.1 mm)

Minimum order: 50 each. Must be ordered in increments of 50.

CRL 4" x 4" Standard Post Caps

- Seven Standard Colors, Plus Unfinished Chromate
- Custom Powder Coated Finishes Also Available
- Easy to Install

CRL 4" x 4" 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 B398).



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	Chromate

Minimum order: 1 each.

STANDARD COLORS FOR ALL 4" x 4" SQUARE POST CAPS

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

new

- For Use With CRL's 4" x 4" Square Aluminum Post Kits
- Seven Standard Colors, Plus Unfinished Chromate
- 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	Chromate

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" Square Post Kits. The 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 B398).

CRL 4" x 4" Titan Series Decorative Post Caps

new

- For Use With CRL's 4" x 4" Square Aluminum Post Kits
- Seven Standard Colors, Plus Unfinished Chromate
- 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	Chromate

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" Square Post Kits. The 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 B398).

CRL AWS ALUMINUM WINDSCREEN SYSTEMS

For Pricing Visit Our Web Site or Call Us Toll Free at the Phone Numbers Shown on the Back Cover

C.R. Laurence Co.

AWS Quote/Order Request Form

Fax Completed Checklist to C.R. Laurence Technical Sales at (800) 587-7501 in the U.S., or (323) 584-5289 (Canada and International). Then call to discuss: (800) 421-6144 (U.S.), (877) 421-6144 (Canada), or (323) 588-1281 (International). Ask for Extension 7730. This form is also available online at **crlaurence.com**.

Company Name _____ Phone # _____

Contact _____ Fax # _____

Job Name _____ Date _____

When you are ready to order, utilize this form to assist you in covering the details required to complete a Windscreen System installation. Going through this exercise should prevent you from overlooking any details related to your installation.

IMPORTANT: Depending on the complexity of your project, one or more of the following may be required to accurately order: sketches or drawings of your particular application with dimensions; printed architectural drawings or CAD files; photos of the job site conditions (digital images are preferable). **NOTE:** A final sign off is required prior to any custom fabrication.

WINDSCREEN SYSTEM

- ❑ Rectangular 2" x 2-5/8" (50.8 x 66.7 mm)
- ❑ Round 3" (76.2 mm) Diameter
- ❑ Square 4" x 4" (101.6 x 101.6 mm)

POSTS NEEDED

- ❑ Ends _____
- ❑ 90 Degree Corners _____
- ❑ 180 Degree Centers _____
- ❑ 135 Degree Centers _____

POST ATTACHMENT

- ❑ Core Mount
- ❑ Fascia Mount
- ❑ Surface Mount
- ❑ Other _____

POST HEIGHT

- ❑ 36" (914 mm)
- ❑ 48" (1219 mm)
- ❑ 60" (1524 mm)
- ❑ 72" (1829 mm)
- ❑ Other _____

SUBSTRATE

- ❑ Concrete
- ❑ Steel
- ❑ Wood
- ❑ Other _____

FLOOR CONDITION

- ❑ Flat
- ❑ Sloped (Degrees) _____

ELEVATED BOTTOM RAIL (OPTIONAL)

- ❑ 20'-1" (6.12 m) Bottom Rail
- ❑ 20'-1" (6.12 m) Bottom Rail Filler
- ❑ No Bottom Rail
- ❑ Other _____

SURFACE MOUNT BOTTOM RAIL LENGTH (OPTIONAL)

- ❑ 36" (914 mm)
- ❑ 48" (1219 mm)
- ❑ 60" (1524 mm)
- ❑ 72" (1829 mm)
- ❑ No Bottom Rail
- ❑ Other _____

GLASS THICKNESS

- ❑ 1/4" (6 mm)
- ❑ 3/8" (10 mm)
- ❑ 1/2" (12 mm)
- ❑ Other _____

Use Only TEMPERED GLASS

(Glass not supplied by CRL)

COLOR

- ❑ Sky White
- ❑ Oyster White
- ❑ Agate Gray
- ❑ Beige Gray
- ❑ Matte Black
- ❑ Matte Bronze
- ❑ Silver Metallic
- ❑ Unfinished Chromate
- ❑ Clad in Polished S.S. w/Flat Cap
- ❑ Clad in Satin S.S. w/Flat Cap
- ❑ Special (Specify) _____

LAYOUT GRID TO SKETCH DESIGN

CRL AWS ALUMINUM WINDSCREEN SYSTEMS

For Pricing Visit Our Web Site or Call Us Toll Free at the Phone Numbers Shown on the Back Cover

CRL ARS AND AWS GATE SYSTEMS

CRL AWS Custom Gate Systems

- **Fabrication to Code for Pool Surrounds**
- **Tension Adjustable Self-Closing Hinge is Standard**
- **Available Gate Latch, Knob Latch, Electronic Magnetic Latch, and Panic Hardware Options**
- **We Can Fabricate Custom Styles From Stock Components**
- **Gate Hinge and Lock Options Also Available (See Pages B467-B471)**

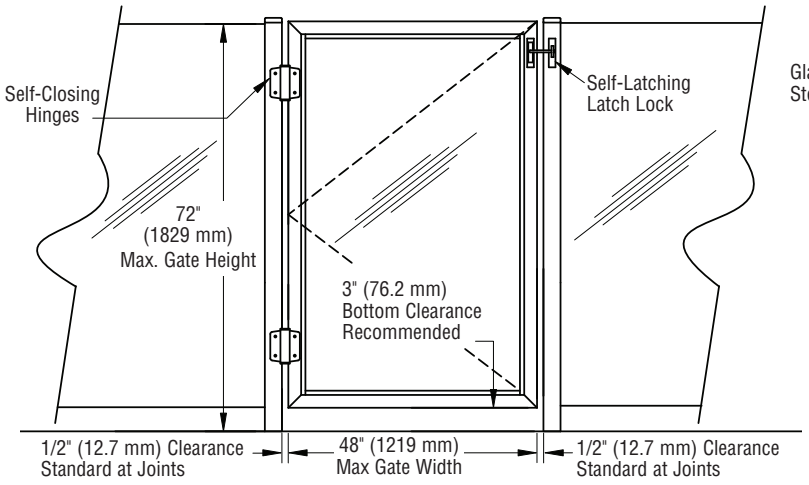
MANUFACTURED IN THE USA BY C.R. LAURENCE
An ISO9001:2008 Certified Company

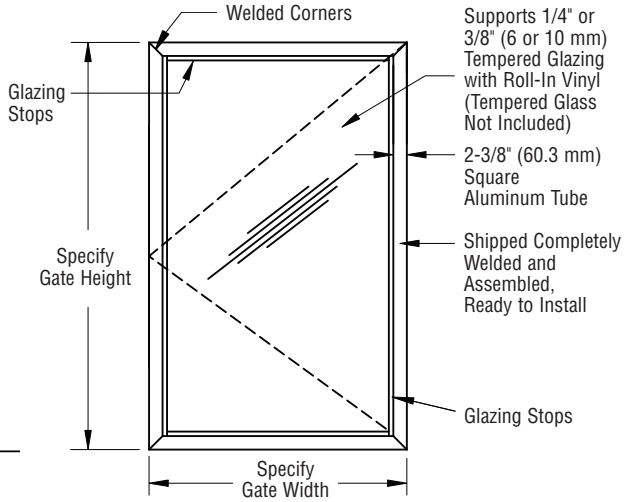
Use Only TEMPERED GLASS

AWS Custom Gate With Glass

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.

- **Seven Standard Colors, Plus Chromate Mill (See Opposite Page)**
- **Custom Colors Also Available**





- **No Rusting, Binding or Staining**
- **Easy to Install and Maintain**
- **Limited Lifetime Warranty**

AWS Custom Gate With Glass

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.

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	Unfinished Chromate

Minimum order: 1 each. Specify gate color, opening width and height at time of order.

CRL ARS Custom Gate Systems

- **Passage, Driveway, Door Style Glass or Picket Gates Are Available**
- **Tension Adjustable Self-Closing Hinge is Standard**
- **Available Gate Latch, Knob Latch, Electronic Magnetic Latch, and Panic Hardware Options**
- **We Can Fabricate Custom Styles From Stock Components**
- **Seven Standard Colors, Plus Unfinished Chromate**
- **Custom Colors Also Available**

MANUFACTURED IN THE USA BY C.R. LAURENCE
An ISO9001:2008 Certified Company

Use Only TEMPERED GLASS

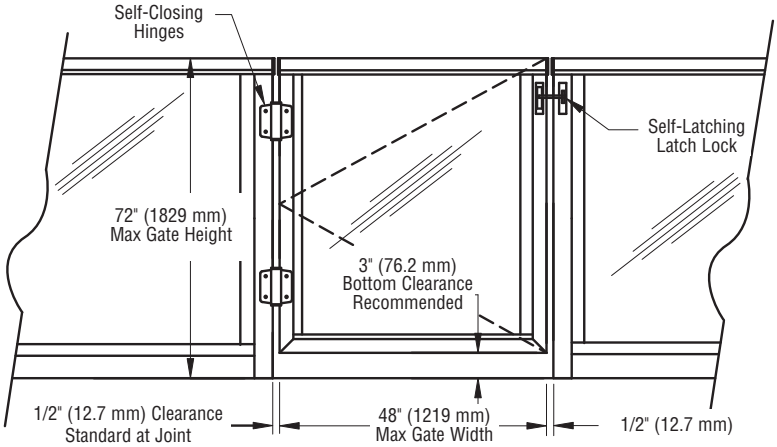
Aluminum Rail System Gates are an integral part of most commercial, multi-family, and residential projects. Your choice of gate designs range from basic swinging gates to customized automatic or manual gates. CRL Gates can accommodate standard, electronic or remotely operated locksets, as well as a variety of opening mechanisms.

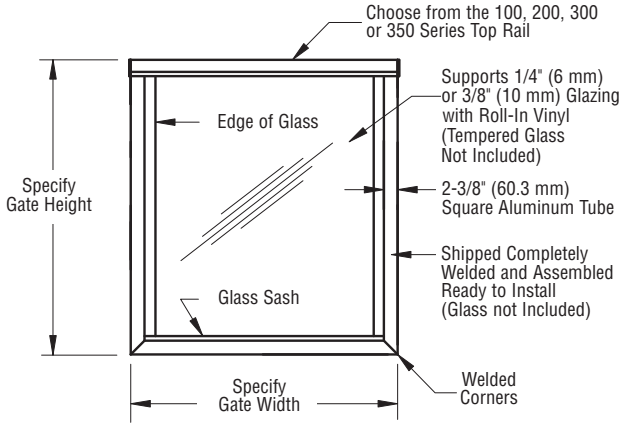
ARS Series Custom Gate With Horizontal Mullion

STANDARD COLORS

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.





ARS CUSTOM ALUMINUM RAILING GATES FOR GLASS

CAT. NO.	DESCRIPTION
POSTGATE1G	100 Series Custom Glass Gate
POSTGATE2G	200 Series Custom Glass Gate
POSTGATE3G	300 Series Custom Glass Gate
POSTGATE35G	350 Series Custom Glass Gate

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
POSTGATE1P	100 Series Custom Picket Gate
POSTGATE2P	200 Series Custom Picket Gate
POSTGATE3P	300 Series Custom Picket Gate
POSTGATE35P	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:

- Associated Locksmiths of America (ALOA)
- U.S. Consumer Product Safety Commission (CPSC)
- American Fence Association (AFA)
- Association of Pool & Spa Professionals (APSP)
- International Code Council (ICC)
- American Standard Testing Materials International (ASTM)

CRL ARS Stock Size Glass and Picket Gates

- Ready to Install Stock Gate Sizes for 100, 200, 300, and 350 Series Railings
- Designed for 36" Wide x 42" Tall Railing Systems
- Welded and Finished With Powder Coating
- Glass or Picket Infills
- Seven Standard Powder Coated Finishes, Plus Unfinished Chromate
- 6005 Alloy Aluminum/T5 Temper
- Custom Sizes Also Available (See Page B464)

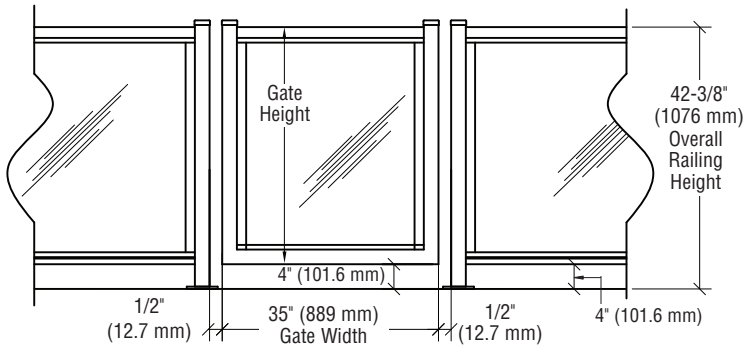
CRL offers a wide selection of Stock Size Gates for our Aluminum Railing Series. They are available in both glass and picket applications in seven standard colors. Gates come fully fabricated, powder coated, and assembled to fit a standard 36" (914 mm) wide opening by 42" (1067 mm) standard railing height. Custom gate sizes are also available. **NOTE:** All Gate Hardware is sold separately (see pages B467-B473). 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

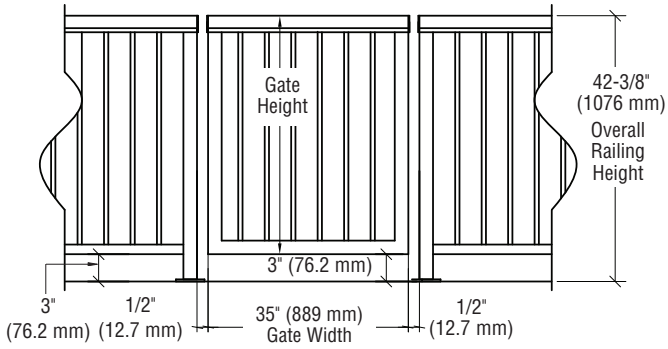
Colors shown are representative only, and may vary slightly from actual gloss, color, and texture. If color match is critical, please contact Technical Sales for additional information.

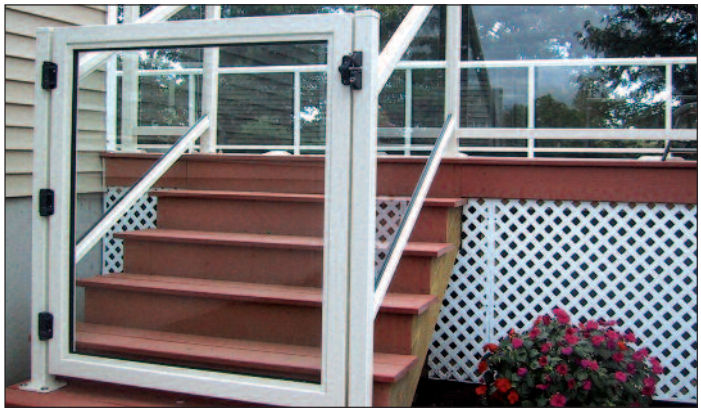
Additional Color Options - CRL has over 250 quick turn custom color options with the ability to color match as well.

Typical 100 Series Gate Elevation



Typical 300 Series Gate Elevation





STOCK SIZE ALUMINUM RAILING GATES FOR 1/4" TO 3/8" (6 TO 10 MM) GLASS

CAT. NO.*	TOP RAIL	FITS OPENING (W X H)	ACTUAL GATE SIZE (W X H)	BOTTOM RAIL GAP
1GG3642	100 Series	36" (914 mm) x 42" (1067 mm)	35" (889 mm) x 38-3/8" (975 mm)	4" (101.6 mm)
2GG3642	200 Series	36" (914 mm) x 42" (1067 mm)	35" (889 mm) x 40-5/8" (1032 mm)	3" (76.2 mm)
3GG3642	300 Series	36" (914 mm) x 42" (1067 mm)	35" (889 mm) x 41-11/16" (1059 mm)	3" (76.2 mm)
35GG3642	350 Series	36" (914 mm) x 42" (1067 mm)	35" (889 mm) x 40-13/16" (1037 mm)	3" (76.2 mm)

Minimum Order: 1 each. * Specify powder coat color when ordering. Must ship common carrier.

STOCK SIZE ALUMINUM RAILING GATES WITH PICKETS

CAT. NO.*	TOP RAIL	FITS OPENING (W X H)	ACTUAL GATE SIZE (W X H)	BOTTOM RAIL GAP
1PG3642	100 Series	36" (914 mm) x 42" (1067 mm)	35" (889 mm) x 38-3/8" (975 mm)	4" (101.6 mm)
2PG3642	200 Series	36" (914 mm) x 42" (1067 mm)	35" (889 mm) x 40-5/8" (1032 mm)	3" (76.2 mm)
3PG3642	300 Series	36" (914 mm) x 42" (1067 mm)	35" (889 mm) x 41-11/16" (1059 mm)	3" (76.2 mm)
35PG3642	350 Series	36" (914 mm) x 42" (1067 mm)	35" (889 mm) x 40-13/16" (1037 mm)	3" (76.2 mm)

Minimum Order: 1 each. * Specify powder coat color when ordering. Must ship common carrier.

CRL Gate Hardware

- Pivot Patches and Gate Fittings
- Gate Locks, Bolts, and Latches
- Self-Closing Hinge Mechanisms

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 see pages B467 to B473.

Pivots and Patch Fittings

Self-Closing Hinges

Locks, Bolts, and Latches

Custom AWS Gate with Glass Infill

Custom AWS Gate with Glass Infill

Custom AWS Gate with Glass Infill

Custom ARS Gate with Picket Infill

CRL Tru-Close® Gate Hinges

- Self-Closing
- Molded Polymer Construction With No Unsightly External Springs
- 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 55 pounds (25 kg), or is wider than 36" (914 mm), choose Heavy-Duty Hinge Series TCHD1 shown below. Installation screws sold separately (see page B513).

CAT. NO.	COLOR
TCHA1BL	Black
TCHA1W	White

Minimum order: 1 each. All Tru-Close® Hinges can be combined for quantity pricing.

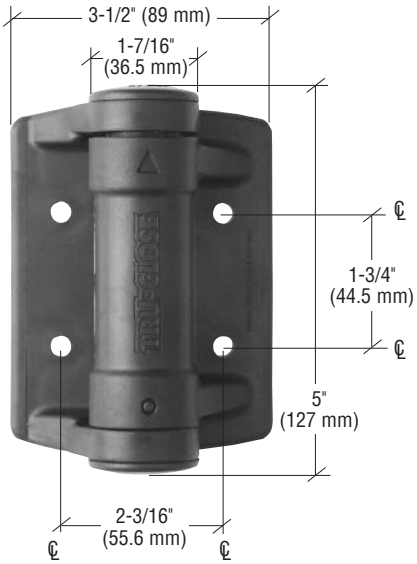
CRL Tru-Close® Heavy-Duty Gate Hinges

- Self-Closing
- Molded Polymer Construction With No Unsightly External Springs
- 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 between 55 pounds (25 kg) and 132 pounds (60 kg), or if the gate is between 36" to 48" (914 to 1219 mm) wide. Contact CRL Technical Sales if the gate exceeds 132 pounds (60 kg) or 48" (1219 mm) in width. Installation screws sold separately (see page B513).

CAT. NO.	COLOR
TCHD1BL	Black
TCHD1W	White

Minimum order: 1 each. All Tru-Close® Hinges can be combined for quantity pricing.



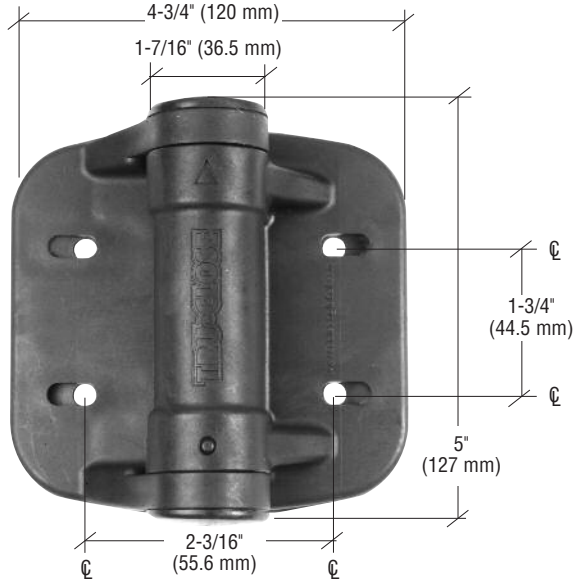
CRL Tru-Close® Round Post Gate Hinges

- Self-Closing
- Molded Polymer Construction With No Unsightly External Springs
- Tension Adjustable Using Only a Screwdriver
- Generally Meets All Pool Barrier Codes

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" (47.6 to 50.8, 60.3, and 73 mm), and gate frame diameters of 1-3/8" and 1-5/8" (35 and 41.2 mm). Gate widths can be between 36" to 48" (914 to 1219 mm). Contact CRL Technical Sales if the gate door exceeds 132 pounds (60 kg) or 48" (1219 mm) in width. Installation screws sold separately (see page B513).

CAT. NO.	COLOR
TCHDR2BL	Black

Minimum order: 1 each. All Tru-Close® Hinges can be combined for quantity pricing.

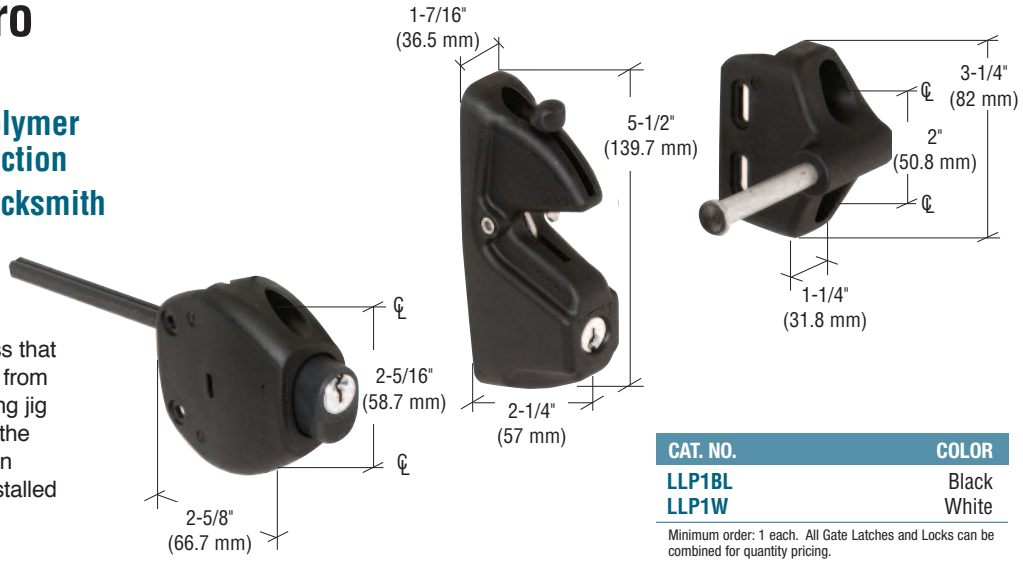


CRL ARS AND AWS GATE HARDWARE

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" (38.1 to 127 mm) in width.



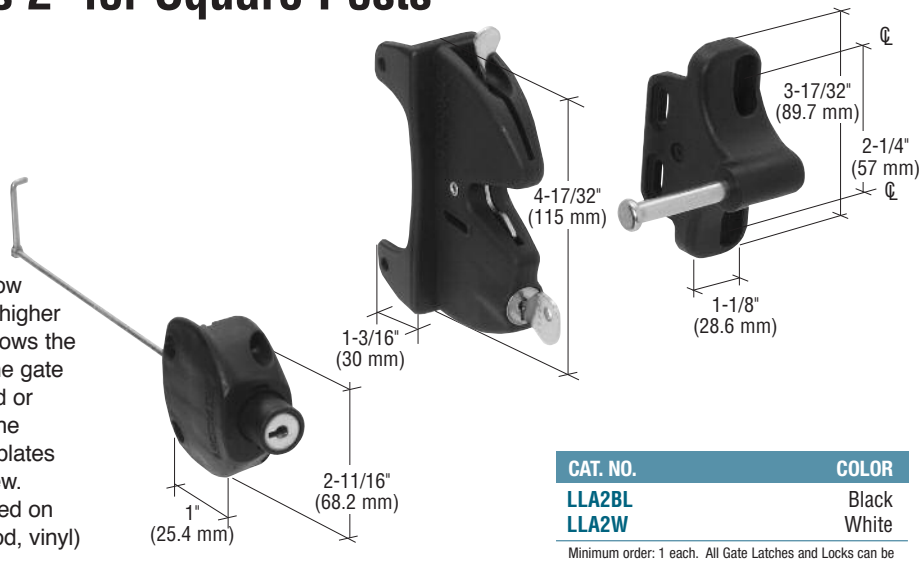
CAT. NO.	COLOR
LLP1BL	Black
LLP1W	White

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

The new and improved pedestrian Gate Latch now 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. Instead of the previous six-screw backing plate, the 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" (25.4 to 152.4 mm) wide.



CAT. NO.	COLOR
LLA2BL	Black
LLA2W	White

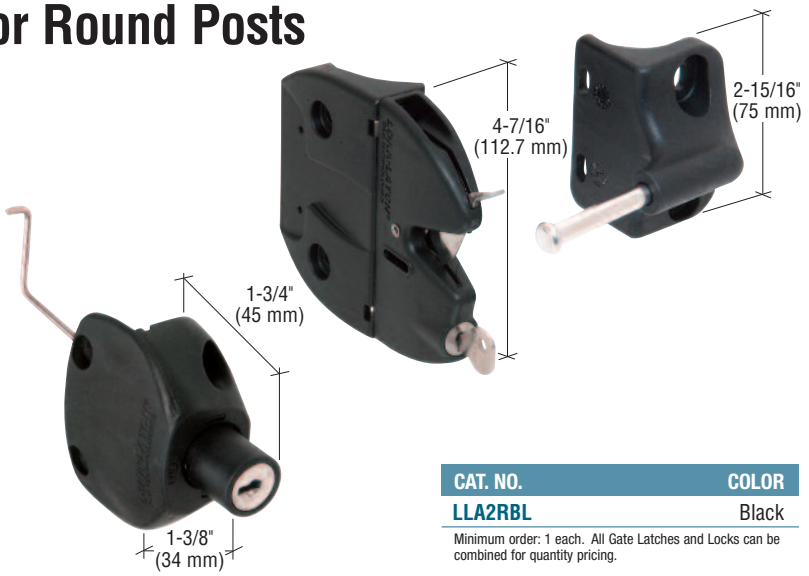
Minimum order: 1 each. All Gate Latches and Locks can be combined for quantity pricing.

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. Instead of the previous six-screw backing plate, the 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" (47.6 to 50.8, 60.3, and 73 mm).

The Strike includes hardware to attach to gate frame diameters of 1-3/8" to 1-5/8" (35 to 41.2 mm). For gates with 1.9" to 2" (48.3 to 51 mm) diameter frames contact CRL Technical Sales.



CAT. NO.	COLOR
LLA2RBL	Black

Minimum order: 1 each. All Gate Latches and Locks can be combined for quantity pricing.

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.

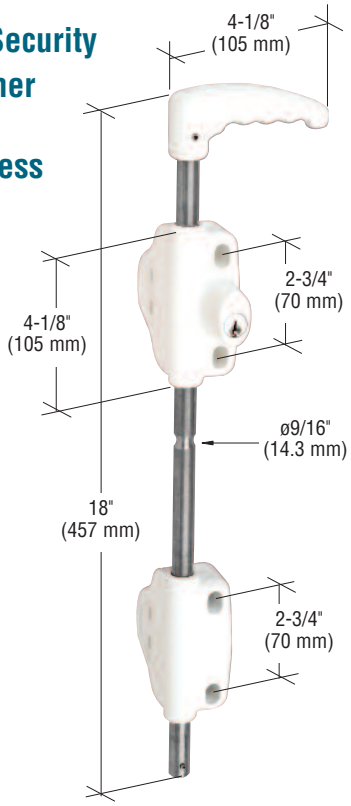
CAT. NO.	COLOR
LL1MBL	Black
LL1MW	White

Minimum order: 1 each. All Gate Latches and Locks 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 by a locksmith. Ideal for double driveway 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. Available in black or white.



CAT. NO.	COLOR
LB118BXBL	Black
LB118BXW	White

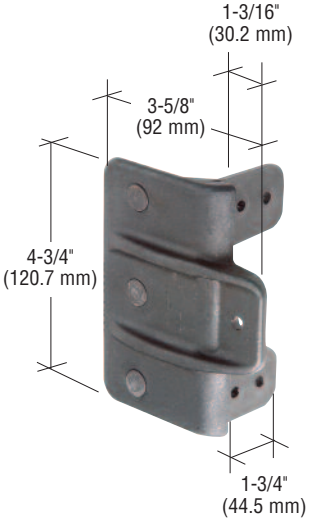
Minimum order: 1 each. All Gate Latches and Locks can be combined for quantity pricing.

CRL Gate Stops

- **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 higher than 48" (1219 mm) two Gate Stops may be required. Available in black or white.

NOTE: A Gate Stop should not be used on child safety gates, as toddlers may use them as footholds.



CAT. NO.	COLOR
TCGS2BL	Black
TCGS2W	White

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

CRL Gate Handles

- **Molded, Reinforced Polymer Construction**
- **Fits Left Hand or Right Hand Opening Gates**
- **Ergonomic Design**

The CRL Gate Handle is a general-purpose handle made to fit all types of gates and gate materials. It offers convenient gate opening and closing on virtually all applications. Handles are available in black or white, and guaranteed against rusting and staining.

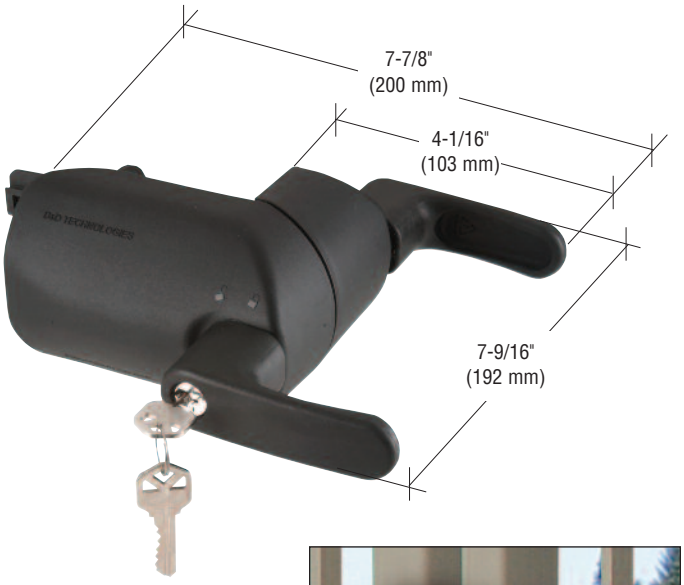
CAT. NO.	COLOR
LLH1BGBL	Black
LLH1BGW	White

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

CRL Z-Lokk™ Magnetic Gate Lock

- **Installed Without Any Milling, Hole-Drilling or Welding**
- **Fits Gate Frames Up to 2-1/2" (63 mm)**
- **Made From Tough Polymers And Stainless Steel Components, Which Means No Rust**
- **Non-Handed**
- **Overcomes Gate Movement and Sag**

The CRL Z-Lokk™ Magnetic Gate Lock with dual lock cylinders is ideal for aluminum post gates with pickets. The Lock is magnetically-triggered and features a 6-pin key cylinder that can be re-keyed (by a locksmith) to match other house locks and can be locked or unlocked from either side of the fence simultaneously. This revolutionary latch meets Federal ADA standards and is made of a super strong polymer and stainless steel. Easy installation requires no special tools or jigs. No milling, hole-drilling or welding is needed. It also provides up to 1/2" (13 mm) of vertical and 5/8" (16 mm) of horizontal adjustment at any time during or after installation. This model works well with CRL's 2-3/8" (60.3 mm) square aluminum gate frames. Special adapter spacers are provided with each lock to accommodate different gate frame widths. Z-Lokk™ can also be readily mounted to either left-handed or right-handed hinged gates.
NOTE: If used on double gates, a drop bolt must be used (see page B469). Not suitable for child safety gates, as its handle-style design precludes it as a safety device.



CAT. NO.	COLOR
ZL2BL	Black

Minimum order: 1 each. All Gate Latches and Locks can be combined for quantity pricing.

CRL Stainless Steel PullBolt™ Security Locks

- **Face Mount and Side Mount Models to Fit Most Applications**
- **Key-Lockable, Six-Pin Lock Security**
- **3/4" (19 mm) Diameter Bolt With 1-1/4" (31.7 mm) Throw**
- **Lifetime Limited Warranty**
- **Flexible Mounting Methods**
- **Stainless Steel Construction**

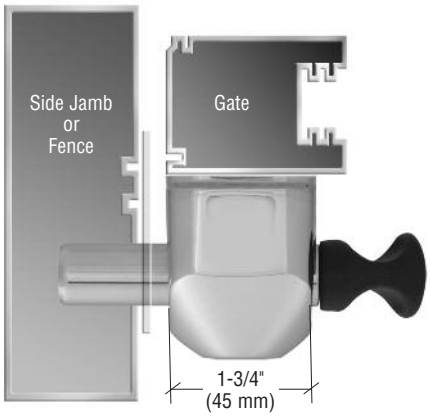
This Stainless Steel PullBolt™ is designed to provide powerful locking security for storefronts, doors, frames, and gates. It can act as add-on security to existing locking systems, or can be used as a primary lock.

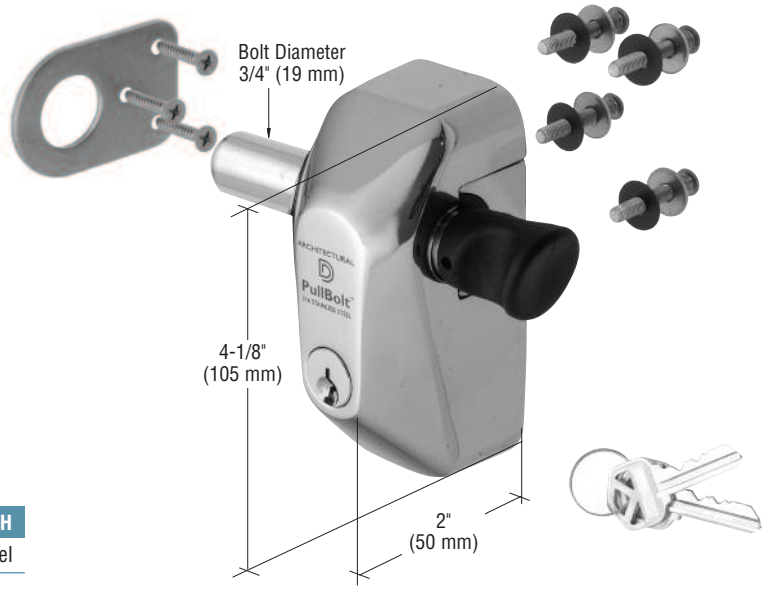
The superbly cast PullBolt™ comes in two models, Side Mount and Face Mount. It is installed using four, thru-mounted M10 stainless steel screws. The lock bolt slides snugly across into the sturdy keeper housing for optimum security.

The PullBolt™ is made from 316 Alloy 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

Plan View: Side Mount Security Lock



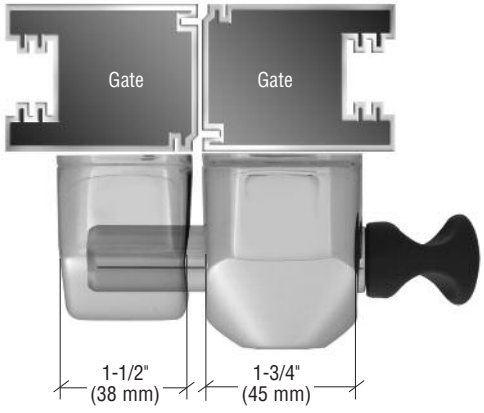


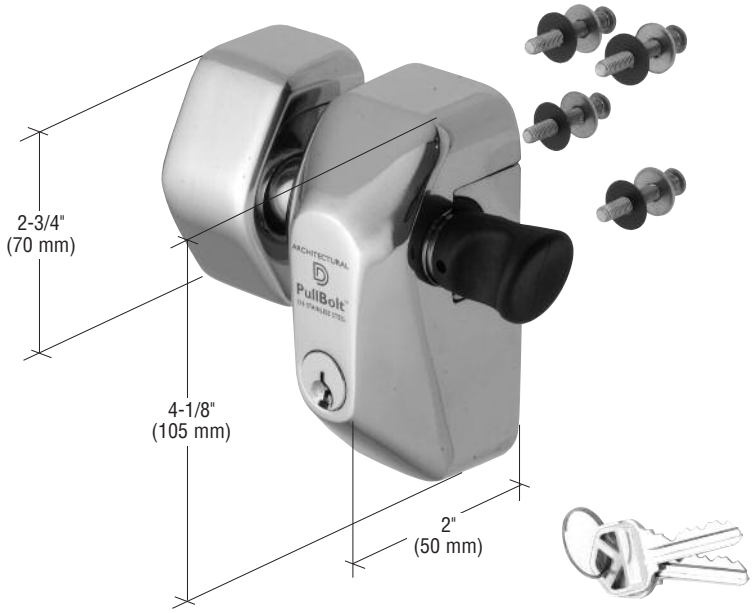
CAT. NO.	DESCRIPTION	FINISH
PBS1PS	Side Mount Security Lock	Polished Stainless Steel

Minimum order: 1 each. All PullBolt™ Locks can be combined for quantity pricing.

Face Mount Security Lock

Plan View: Face Mount Security Lock





CAT. NO.	DESCRIPTION	FINISH
PBF1PS	Face Mount Security Lock	Polished Stainless Steel

Minimum order: 1 each. All PullBolt™ Locks can be combined for quantity pricing.

CRL Jackson 1200 Series Panic Exit Devices

- Works With CRL's ARS and AWS Custom Gate Systems
- Easily Surface Mounts to CRL's 2-3/8" Gate Frames
- Two Finishes Available

Model 1295
Non-Handed

This Jackson Exit Device blends the reliability of the time proven 10 Series Crossbar Device with the sleek, contemporary style of today's modern push-pad exit device. This device is suitable for use with 1-3/4" to 2-3/8" (44.5 to 60.3 mm) narrow, medium, and wide stile aluminum, wood, or hollow metal doors and 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 1200 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 door or gate surface, and mounting hardware is concealed. See below for active outside trim and other panic accessories.

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.

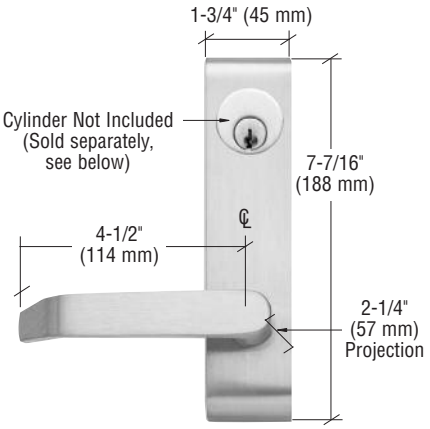
CAT. NO.	DEVICE TYPE	FINISH
1295A36	Rim - 36" (914 mm) Base	Satin Aluminum
1295BRZ36	Rim - 36" (914 mm) Base	Dark Bronze
1295A48	Rim - 48" (1219 mm) Base	Satin Aluminum
1295BRZ48	Rim - 48" (1219 mm) Base	Dark Bronze

Minimum order: 1 each. All Panic Exit Devices can be combined for quantity pricing.

CRL Jackson Locking Flat Lever Outside Trim

new

- Designed for Use With Jackson 1200 Series Panic Exit Device
- Fits CRL's 2-3/8" (60.3 mm) Post Frame Using Jackson's Extended Cam
- Non-Handed, Field Reversible
- Two Finishes Available



This Jackson Locking Flat Lever Outside Trim has a narrow 1-3/4" (44.5 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 - 80). An extended cam is included.

CAT. NO.	FOR USE WITH	FINISH
S95LV02A	Model 1295 Rim Panic	Satin Aluminum
S95LV02BRZ	Model 1295 Rim Panic	Dark Bronze

Minimum order: 1 each. All Lever Lock Trim can be combined for quantity pricing.

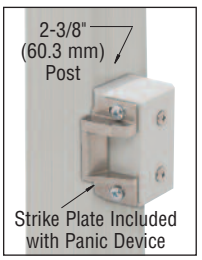
MATERIALS: Escutcheon: High Tensile Strength Aluminum; Lever: High Tensile Strength Aluminum; Mechanical Components: Plated Hardened Steel

CRL Surface Mount Strike Plate Block

- Surface Mounts to CRL's 2-3/8" Post
- Non-Handed
- Seven Standard Colors Plus Unfinished Chromate

new

This Surface Mounted Strike Plate Block is designed to support Jackson's 1200 Series Panic Exit Devices for interior or exterior gate applications. It easily mounts to the face of CRL's 2-3/8" (60.3 mm) post after the panic has been installed.

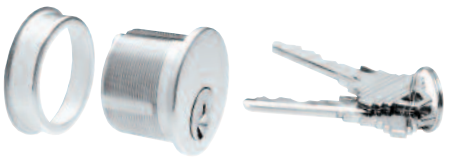


CAT. NO.*	DESCRIPTION
1295SP	Surface Mount Strike Plate

Minimum order: 1 each. * Specify powder coat color when ordering.

CRL DRA Series Mortise Cylinders

- Supplied With Longer Cam
- Brass Construction



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

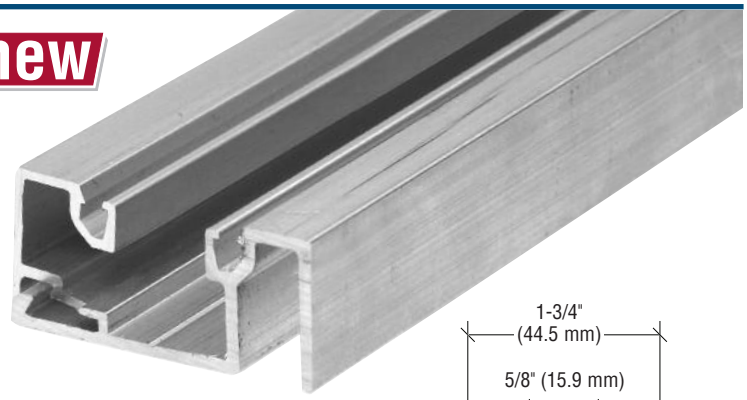
Minimum order: 1 each. All Rim Cylinders can be combined for quantity pricing.

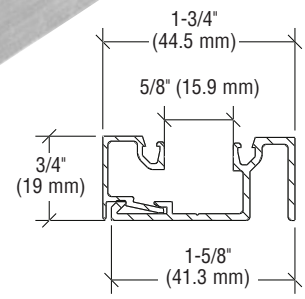
CRL ARS AND AWS GATE HARDWARE

CRL Aluminum Glazing Sash

new

- Supports 1/4" (6 mm) and 3/8" (10 mm) Tempered Glass
- For Use With CRL's ARS and AWS Glass Gate Systems
- Ready to Install
- Roll-In Vinyl Sold Separately





Use Only TEMPERED GLASS

CRL's Aluminum Glazing Sash is designed mainly for gate applications that support glass infill panels. Stock lengths can be cut to size and powder coated by CRL from one of our seven standard powder coated finishes. Custom colors are also available.

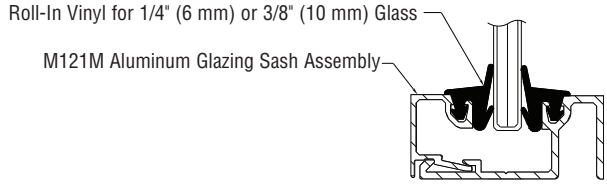
CAT. NO.	DESCRIPTION	LENGTH
M121M	Aluminum Glazing Sash Mill Finish	21'-2" (6.45 m)

Minimum order: 1 each. Must ship common carrier.

CRL Roll-In Vinyl for Aluminum Glazing Sash

new

- Two Sizes for Use With 1/4" (6 mm) or 3/8" (10 mm) Thick Tempered Glass



CRL offers two sizes of Roll-In Glazing Vinyl for supporting 1/4" (6 mm) or 3/8" (10 mm) glass installed in our Cat. No. M121M Aluminum Glazing Sash.

CAT. NO.	DESCRIPTION	ROLL LENGTH
M121V14	1/4" (6 mm) Roll-In Glazing Vinyl	100' (30.5 m)
M121V38	3/8" (10 mm) Roll-In Glazing Vinyl	100' (30.5 m)

Minimum order: 1 roll.

CRL Security Check Point Barrier Systems

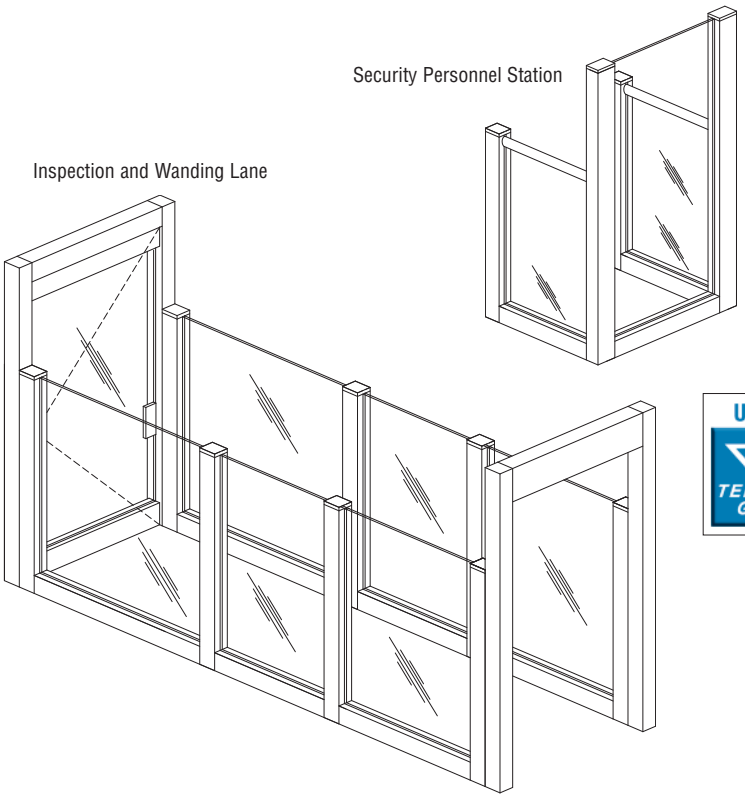
MANUFACTURED IN THE USA BY C.R. LAURENCE
An ISO9001:2008 Certified Company

- 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 Architectural Finishes to Choose From
- Custom Powder Coated Finishes Also Available

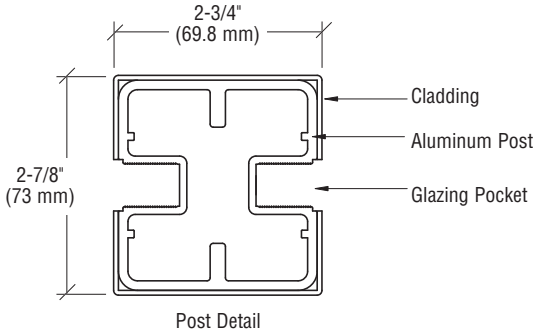
CRL can custom design Security Check Point Barrier Systems that are ideal for airport terminals, arenas, conventions centers, hotels, schools, and many other areas that have security concerns.

Barriers are typically fabricated using a combination of our Heavy Glass Aluminum Base Shoe and rectangular Aluminum Posts that can be cladded in selected architectural finishes, or powder coated in a variety of custom colors that can adapt to a wide variety of conditions.

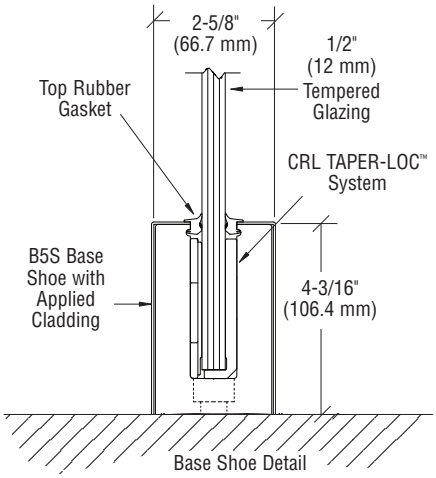
1/2" (12 mm) tempered glazing is recommended, but not supplied by CRL. Glass sizing assistance is available. Units can be shipped knocked down, or fully assembled in a crate.



Use Only TEMPERED GLASS

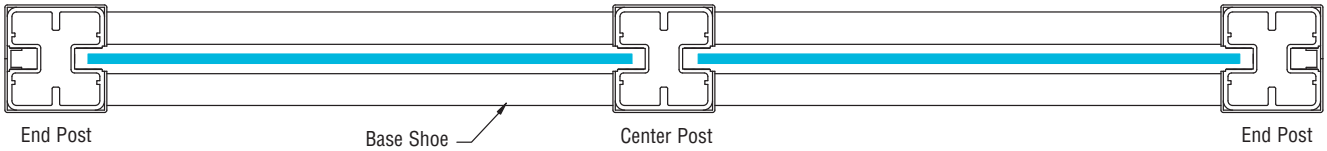


Post Detail



Base Shoe Detail

Security Barriers 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 Security Barrier System that is right for any application.



CRL Security Check Point Barrier Systems

CRL Uses the Latest in Metal Bending Technology

CRL Manufactured Check Point at Sky Harbor International Airport, Phoenix, Arizona

Post Configurations

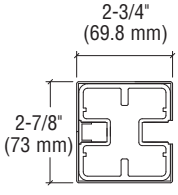
End Post

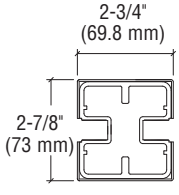
180 Degree Center Post

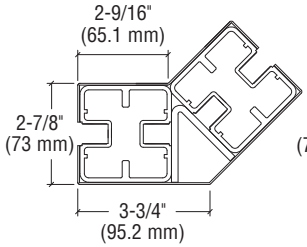
135 Degree Center Post

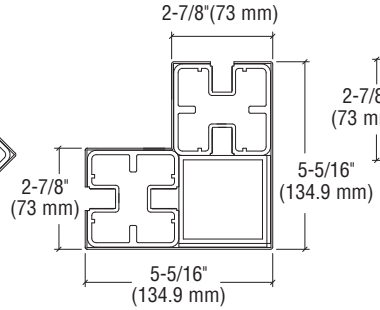
90 Degree Corner Post

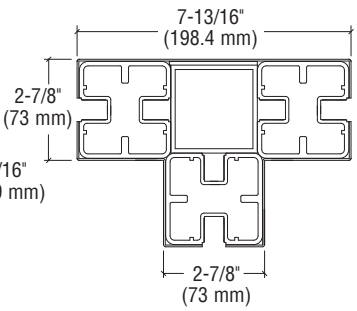
3-Way Post





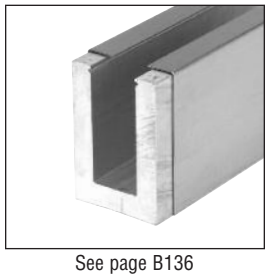






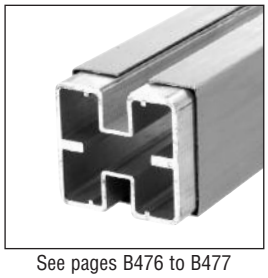
Major Components

Base Shoe



See page B136

Vertical Posts



See pages B476 to B477

Surface Mount Post Stanchions

See page B478

Core Mount Post Stanchions

See page B448

Post Cap

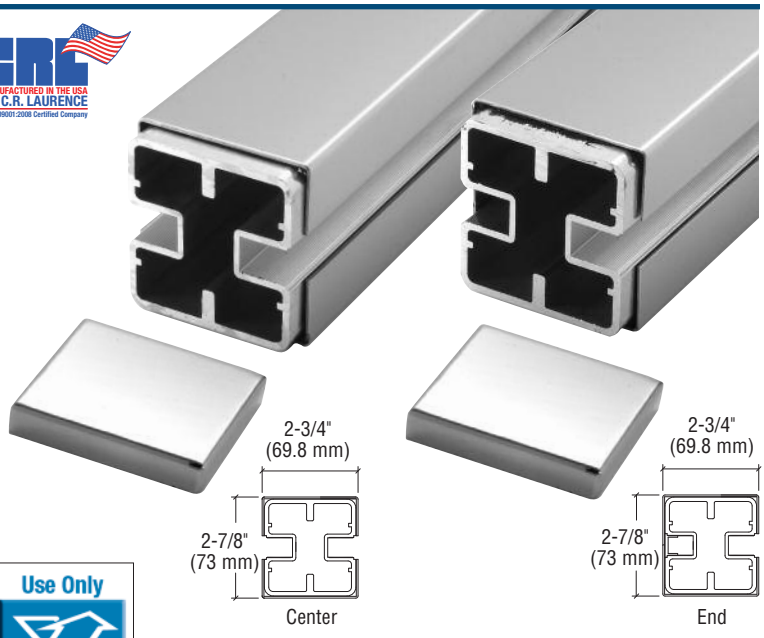
See page B478

CRL 180 Degree Center and End Barrier Post Kits

new

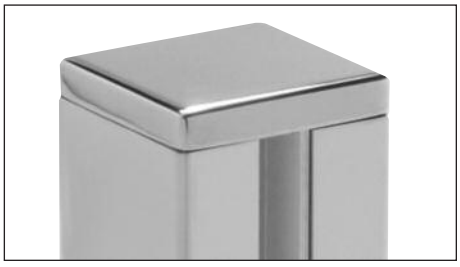
MANUFACTURED IN THE USA BY C.R. LAURENCE
An ISO9001:2008 Certified Company

- Aluminum Post With 304 Alloy Stainless Steel Cladding and Top Cap
- 316 Alloy Stainless Cladding Available Upon Request
- Custom Powder Coated Finishes Available Upon Request
- Accommodates 1/2" (12 mm) Thick Glass
- Post Heights Up to 72" (1.8 m) Tall



Use Only TEMPERED GLASS

CRL 180 Degree Center and End Barrier 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 alloy 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.



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

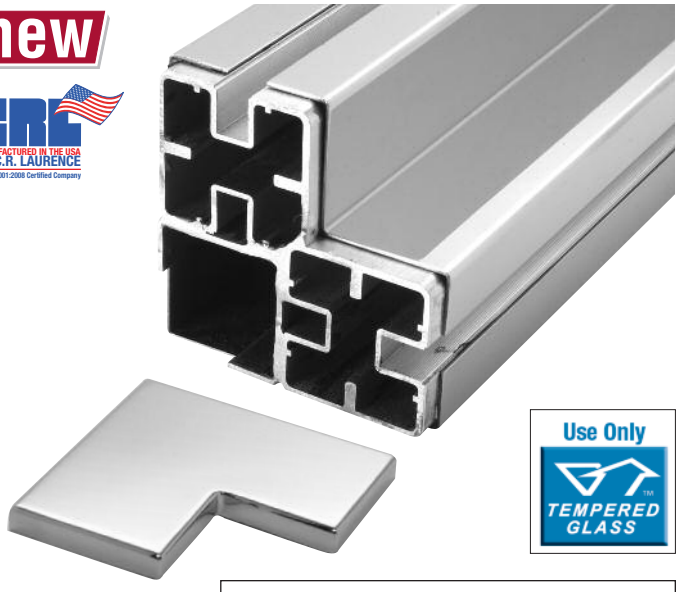
Minimum order: 1 each. *Must specify post height at time of order..

CRL 90 Degree Corner Barrier Post Kits

new

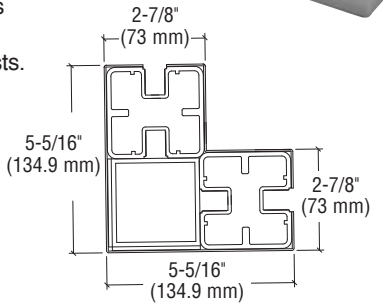
MANUFACTURED IN THE USA BY C.R. LAURENCE
An ISO9001:2008 Certified Company

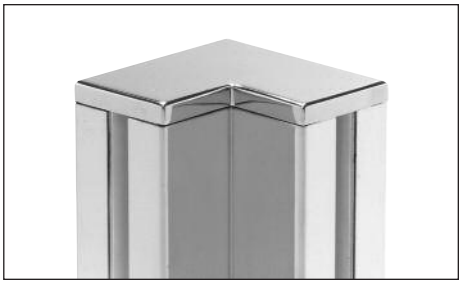
- Aluminum Post With 304 Alloy Stainless Steel Cladding and Top Cap
- 316 Alloy Stainless Cladding Available Upon Request
- Custom Powder Coated Finishes Available Upon Request
- Accommodates 1/2" (12 mm) Thick Glass
- Post Heights Up to 72" (1.8 m) Tall



Use Only TEMPERED GLASS

CRL 90 Degree Corner Barrier 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 alloy 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.





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.

CRL BARRIER SYSTEMS

CRL 135 Degree Center Barrier Post Kits

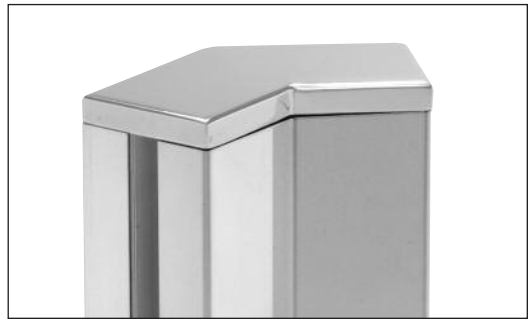
new

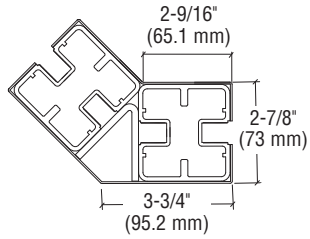
MANUFACTURED IN THE USA BY C.R. LAURENCE
An ISO9001:2008 Certified Company

- Aluminum Post With 304 Alloy Stainless Steel Cladding and Top Cap
- 316 Alloy Stainless Cladding Available Upon Request
- Custom Powder Coated Finishes Available Upon Request
- Accommodates 1/2" (12 mm) Thick Glass
- Post Heights Up to 72" (1.8 m) Tall

Use Only TEMPERED GLASS

CRL 135 Degree Center Barrier 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 alloy 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.





135 DEGREE CENTER POST KITS*

CAT. NO.	FINISH
BPA1BSC	Brushed Stainless
BPA1PSC	Polished Stainless

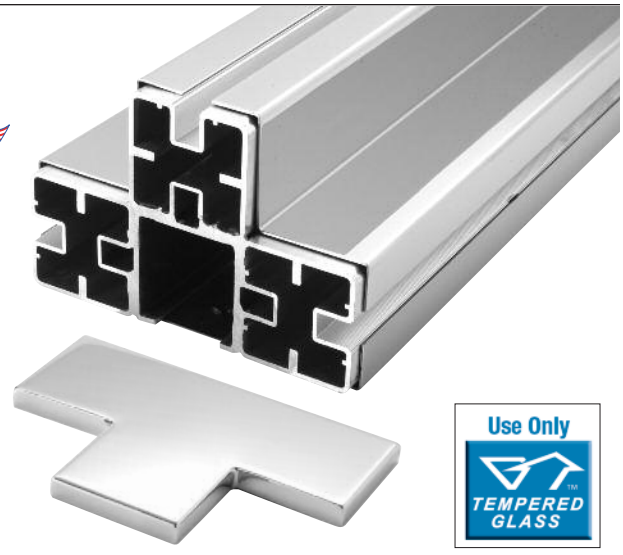
Minimum order: 1 each. *Must specify post height at time of order.

CRL 3-Way Barrier Post Kits

new

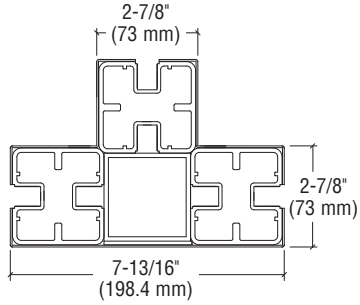
MANUFACTURED IN THE USA BY C.R. LAURENCE
An ISO9001:2008 Certified Company

- Aluminum Post With 304 Alloy Stainless Steel Cladding and Top Cap
- 316 Alloy Stainless Cladding Available Upon Request
- Custom Powder Coated Finishes Available Upon Request
- Accommodates 1/2" (12 mm) Thick Glass
- Post Heights Up to 72" (1.8 m) Tall



Use Only TEMPERED GLASS

CRL 3-Way Barrier 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 alloy 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.



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.

CRL Barrier Post Surface Mount Stanchions

new

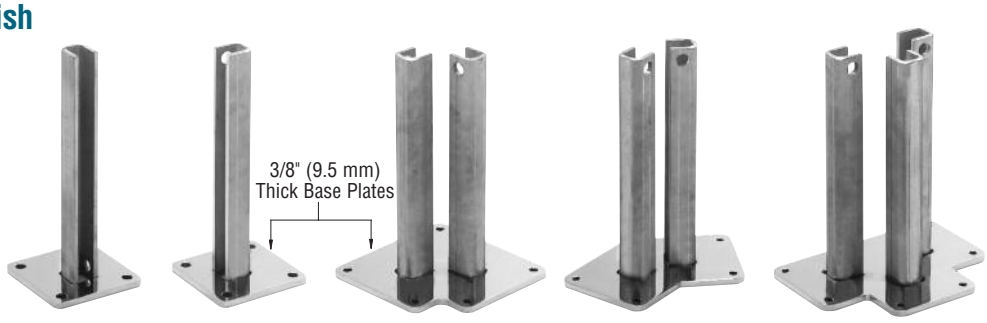
MANUFACTURED IN THE USA BY C.R. LAURENCE
An ISO9001:2008 Certified Company

Use Only TEMPERED GLASS

- Designed for Mounting on Steel or Concrete Surfaces
- Galvanized Grade 50 Steel Finish
- 30" (762 mm) Standard Height
- Custom Heights Also Available

Barrier Post Surface Mount Stanchions are designed for use with CRL's Barrier Post Kits and B5S Cladded Base Shoe. Surface Mount Stanchions are designed to attach to concrete and steel substrates. Use CRL 3/8" (9.5 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. Contact Technical Sales today for more information.



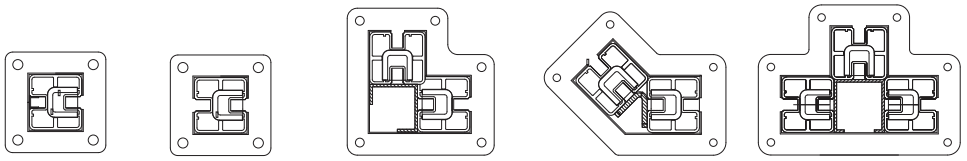
BPEST30
End Post Stanchion

BPCST30
Center Post Stanchion

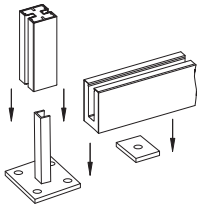
BPLST30
90 Degree Corner Stanchion

BPAST30
135 Degree Center Stanchion

BPTST30
3-Way Post Stanchion



3/8" (9.5 mm) Tall Drain blocks are also available for shimming the base shoe to the same height as the base plate stanchion thickness. See page B155 for more information.



STEEL SURFACE MOUNT STANCHIONS FOR POST HEIGHTS UP TO 72" (1.8 M)

CAT. NO.	STANCHION HEIGHT	FOR USE WITH
BPEST30	30" (762 mm)	End Post
BPCST30	30" (762 mm)	Center Post
BPLST30	30" (762 mm)	90 Degree Corner Post
BPAST30	30" (762 mm)	135 Degree Center Post
BPTST30	30" (762 mm)	3-Way Post

Minimum order: 1 each.

CRL Barrier Post Replacement Caps

new

MANUFACTURED IN THE USA BY C.R. LAURENCE
An ISO9001:2008 Certified Company

- Installs Easily With Silicone Sealant
- 304 Grade Stainless Steel Available in Two Architectural Finishes
- 316 Grade Stainless Steel Available Upon Request
- Powder Coated Finish is Also Available

Use Only TEMPERED GLASS

CRL Barrier Post Replacement Caps are designed to easily slip into the post extrusion. Use Cat. No. 95C Silicone (see page B154) 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" (12.7 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

BRUSHED STAINLESS CAT. NO.	POLISHED STAINLESS CAT. NO.	DESCRIPTION
BPECBS1	BPECPS1	End and 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.

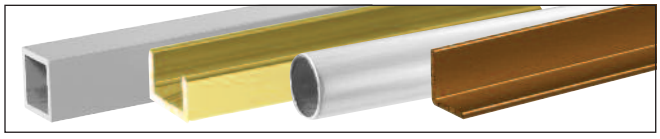
Polished Stainless Barrier Post System With 1/2" (12 mm) Glass

Brushed Stainless Barrier Post System With Screened Glass

CRL Extrusions and Moldings

The Shapes, Materials, and Finishes You Need, When You Need Them

Selection



Through years of working with the industries, C.R. Laurence Company has developed an extensive line of Extrusions and Moldings that enables professionals to create projects with no limitations of design. Whether you are working with glass, mirror, plastics or other materials, you will find the selection of CRL Extrusions to be made of the highest quality materials, in the most commonly used shapes, along with hundreds of special application configurations.

Our material choices of aluminum, stainless steel, brass, and plastic will allow you to use the most appropriate parts in assembling your jobs. Our large selection of finishes makes it easier than ever to accent the applications in either new or existing environments. And if you need something special, custom shapes and finishes can be quoted upon request.

Service

Ordering online at **crlaurence.com**, by toll free phone, toll free fax, or visiting one of our 25 warehouse locations is easier than ever. We take a business-to-business approach to every transaction. We are always pleased to receive your orders, and promise to fill them as promptly as possible.

C.R. Laurence's Customer Services are offered in a variety of forms. The CRL Technical Sales Department offers Product Specialist Groups who are trained in the latest product systems and are ready to answer all of your product questions.

Most important is knowing that you can depend on CRL to have the inventory of products you need when you need them. We've invested in huge supplies of Extrusions and Moldings to be ready to serve you.

CRL's High Standards Produce the Results You Need to Achieve Excellence

Material Quality

Our aluminum smelting process starts with the highest quality primary ingots for billet castings. Alloy analysis is made using spectrometers, tensile testers, and impact testers for consistent results. Stainless steel moldings are made from 316 and 304 Alloy, and all of our plastic channels are of the finest materials available.

Aluminum Anodizing

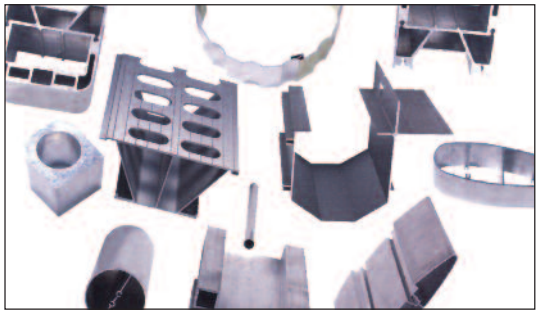
Only high quality materials and chemicals are used in conjunction with 6,000 - 10,000 Amp rectifiers. CRL offers the widest range of anodized, brushed anodized, satin anodized and polished finishes to precisely match our hardware with guaranteed consistency. Custom finishes are available, just ask.

Powder Coating

Electro-static powder coating of CRL Aluminum Extrusions and Moldings is done with the finest powders and latest technology. Quality control experts constantly monitor pre-treatment chemicals for consistency. Choose from standard stocked colors, or let us match colors to your specific requirements.

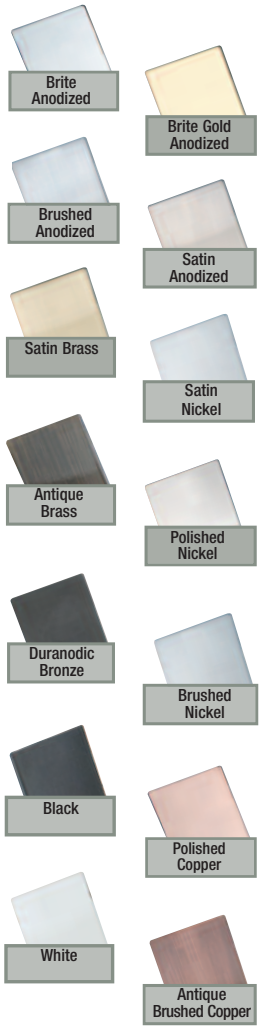
Custom Shapes and Fabrication

CRL can produce virtually any shape extrusion from your drawing or samples. Our die makers will precisely design and produce high tolerance tooling with CNC Machine efficiency. Value added fabrication of special orders are never a problem. Services available include hole punching and drilling, cutting, processing, assembly, accessory fitting, stamping, mechanical polishing, and packaging with fasteners.



Superior Packaging

CRL's years of experience in handling and packaging extrusions have helped us design a variety of sound and secure packing methods. Protection of finished surfaces by polywrapping individual lengths and tightly packed full case shipments ensure delivery of flawless materials for your project requirements.



Powder Coat Finishes

The full selection of RAL Colors are also available.

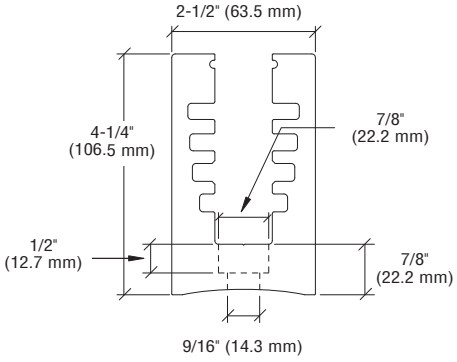
Colors shown are representative only, and may vary slightly from actual gloss, color, and texture. If color match is critical, please contact Technical Sales for additional Information.

CRL EXTRUSION AND MOLDING PROFILES

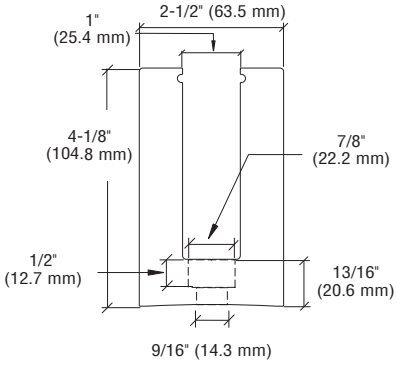
For Pricing Visit Our Web Site or Call Us Toll Free at the Phone Numbers Shown on the Back Cover

Extruded Aluminum Heavy Glass Base Shoe

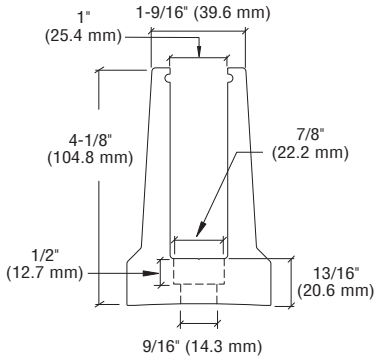
All measurements shown in fractional inches and millimeters



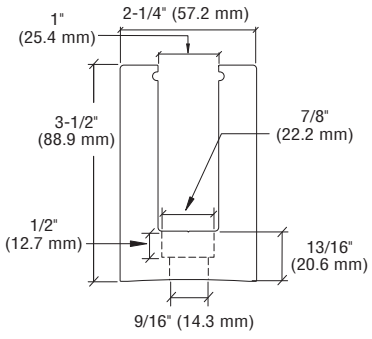
B5A Series
Page B134



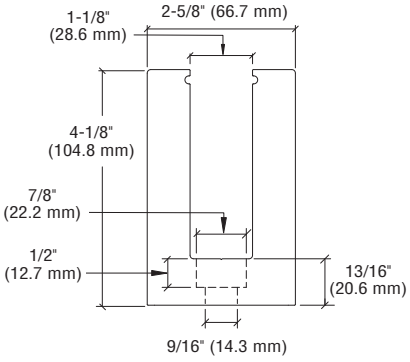
B5S Series
Page B136



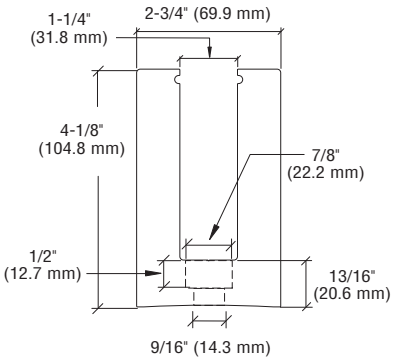
B5T Series
Page B138



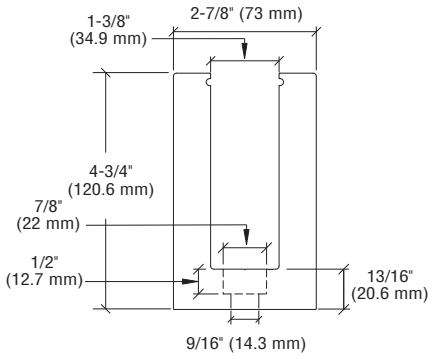
B5L Series
Page B140



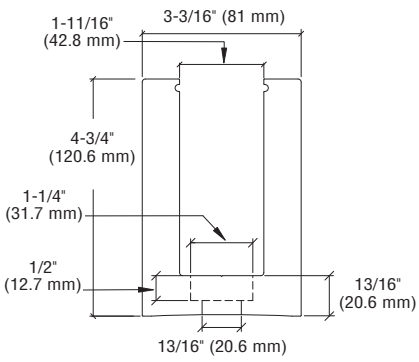
B6S Series
Page B142



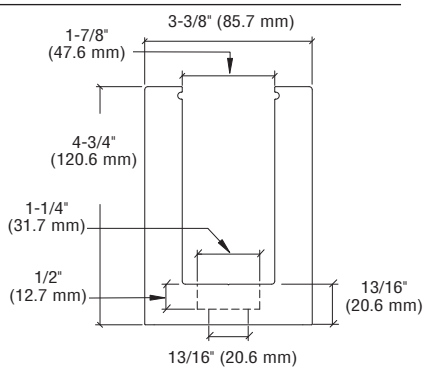
B7S Series
Page B144



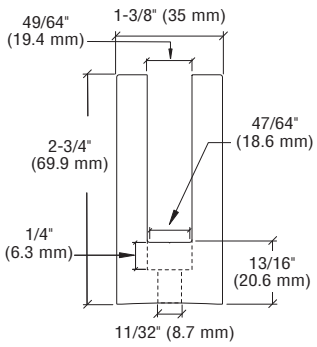
L56S Series
Page B146



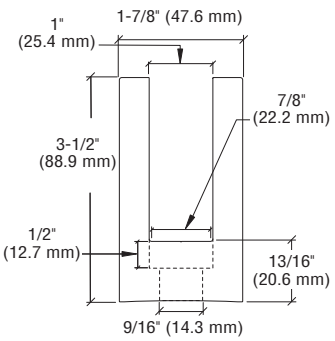
L21S Series
Page B148



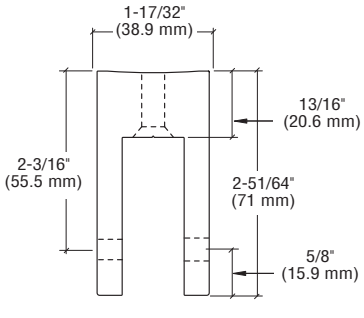
L25S Series
Page B150



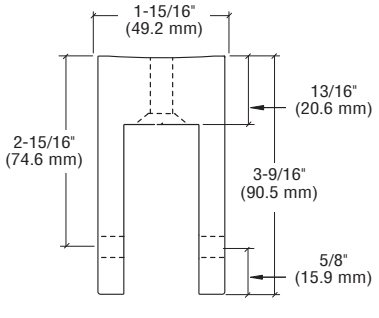
W5B Series
Page B428



W7B Series
Page B430



B5B Series
Page B166



B7B Series
Page B168

CRL EXTRUSION AND MOLDING PROFILES

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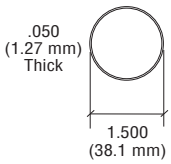
Stainless Steel, Brass or Aluminum Tubing

All measurements shown in decimal inches and millimeters



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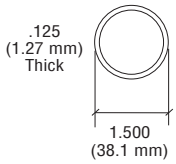
Page B311



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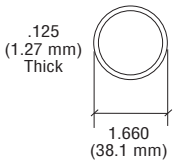
Page B312



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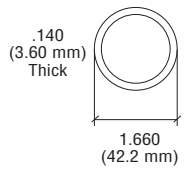

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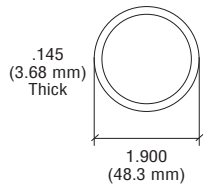
Page B301



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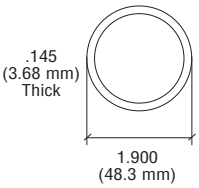

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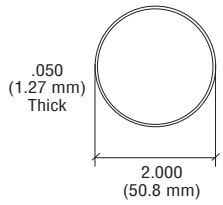
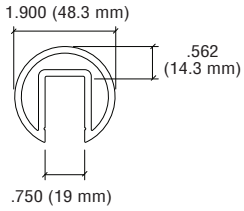
Page B301

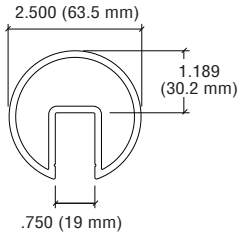


HR20BS
Page B311

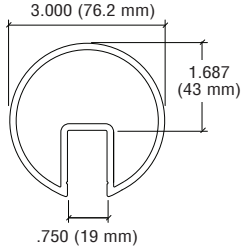
Extruded Aluminum Cap Rail



GR19M
Page B179



GR25M
Page B179



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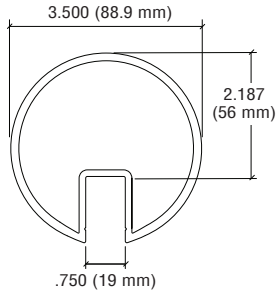

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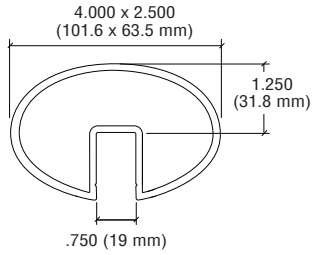
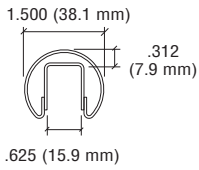


GROV4M
Page B179

Stainless Steel or Brass Cap Rail



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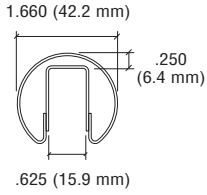
Page B176



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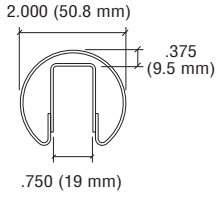
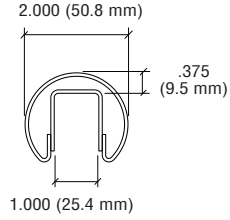
Page B176



GR20BS
Page B176



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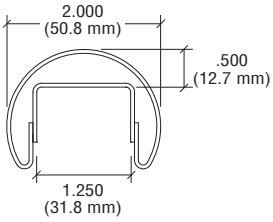

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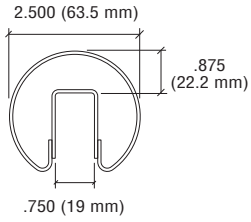
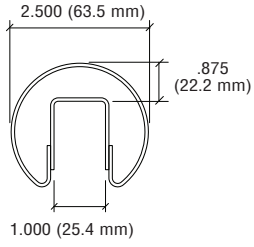
Page B178



GR25BS
Page B176



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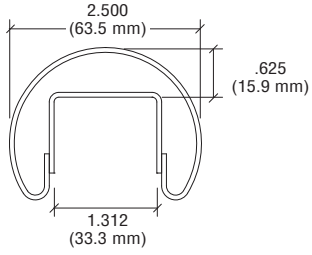

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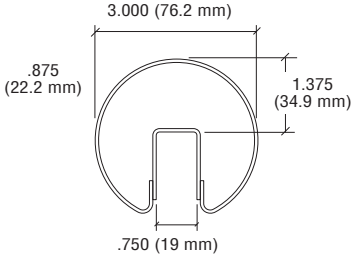
Page B178



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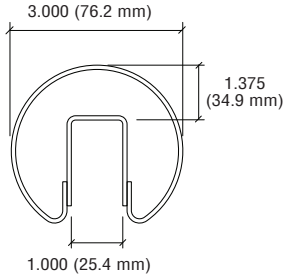

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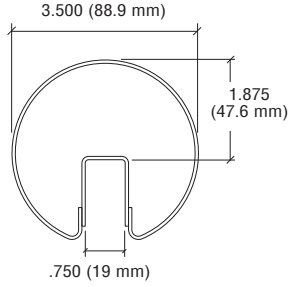

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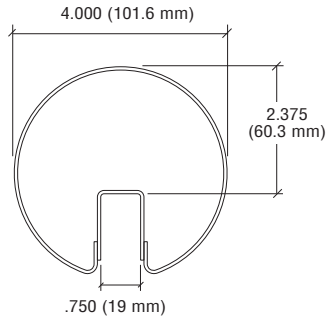

GR40BS
Page B176

CRL EXTRUSION AND MOLDING PROFILES

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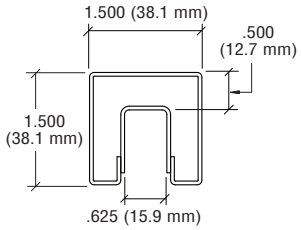
Square and Rectangular Cap Rails



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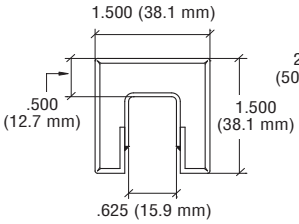

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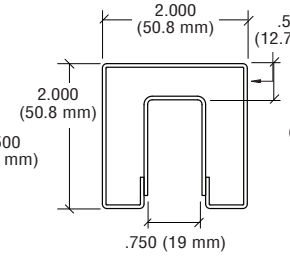
Page B193



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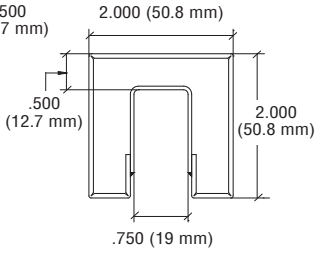

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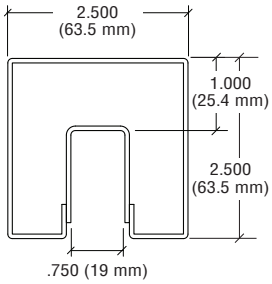
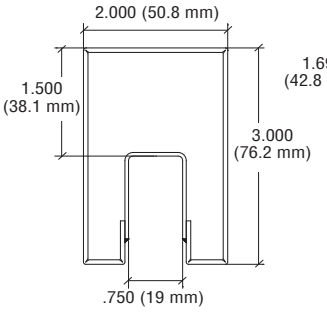
Page B193



GRS25BS
Page B190

Crisp Corner Cap Rails



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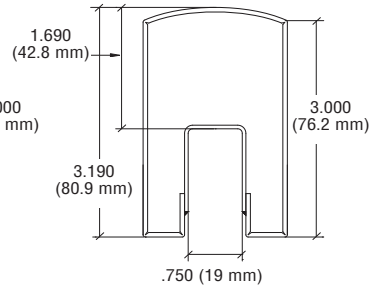
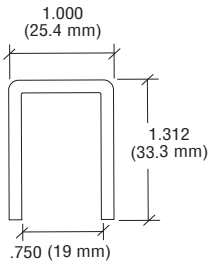
Page B190



new GRSCR3BS
Page B190

U-Channel Cap Rails



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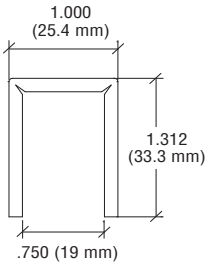
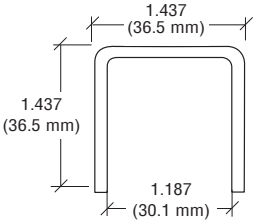
Page B196

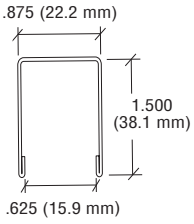


new GRLC10BS
Page B196



new L10BS
Page B200

U-Channel Cap Rails and Vinyl Inserts



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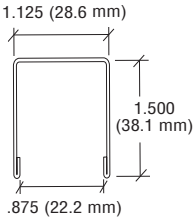
Page B199



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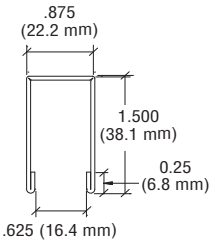
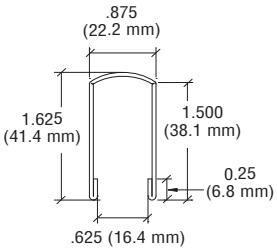
Page B199



new GRCF5BS
Page B199



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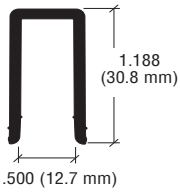
Page B199



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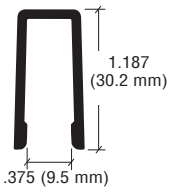

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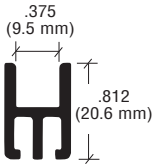
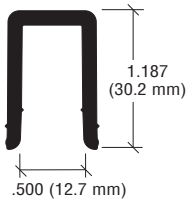
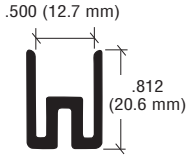
Page B243



CR3PVB
Page B243



CR5PVT
Page B243



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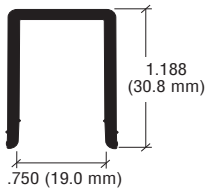
Page B243



GR7PV
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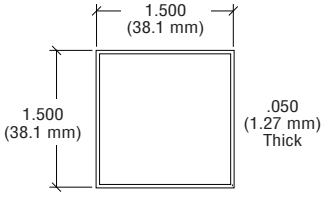
Square Tubing



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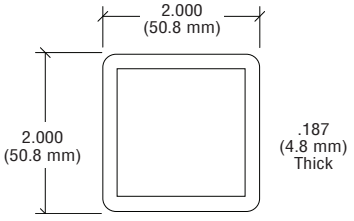
Page B311



PR2BS
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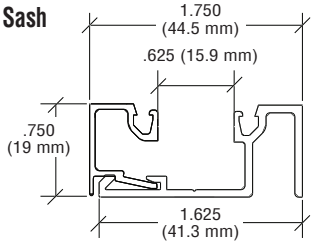
Aluminum Glazing Sash

All measurements shown in decimal inches and millimeters



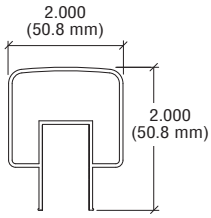
new M121M
Page B473

CRL EXTRUSION AND MOLDING PROFILES

For Pricing Visit Our Web Site or Call Us Toll Free at the Phone Numbers Shown on the Back Cover

All measurements shown in decimal inches and millimeters

Aluminum Railing Top Rails



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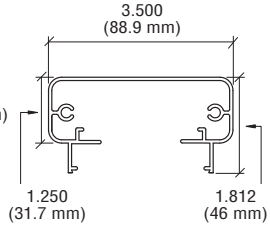

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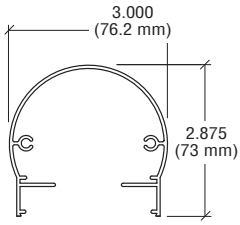

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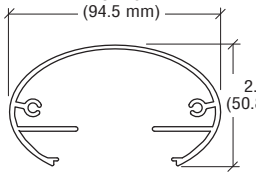

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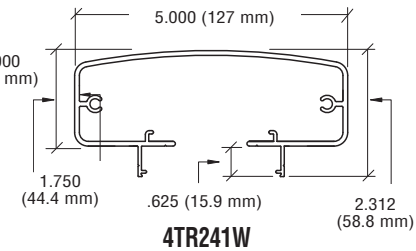

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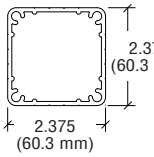
Aluminum Railing Posts and Components



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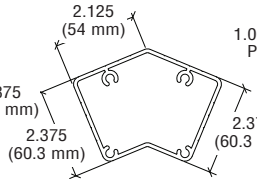

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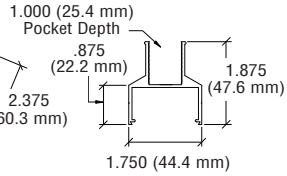

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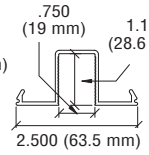

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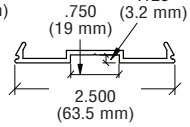

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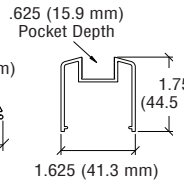

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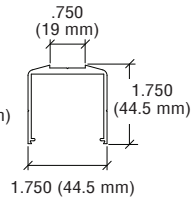

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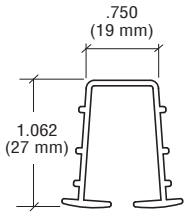
Page B374

Aluminum Railing Posts and Components



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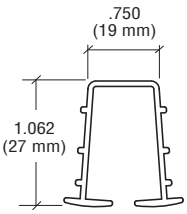

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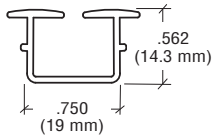

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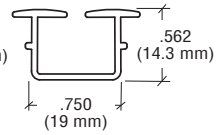

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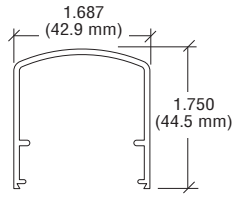

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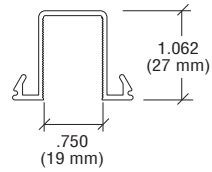

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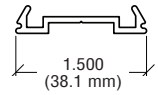

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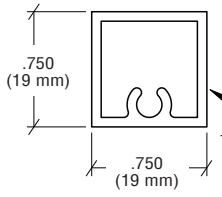
Page B374

Aluminum Railing Posts and Components



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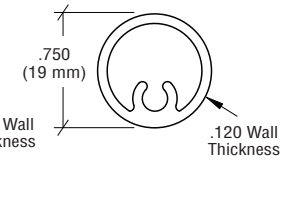

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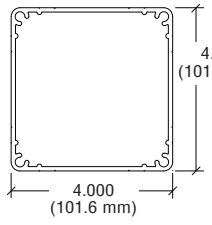

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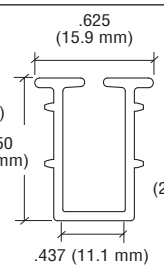

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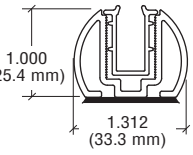

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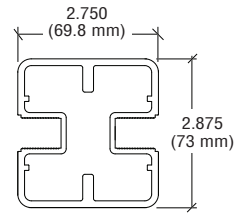

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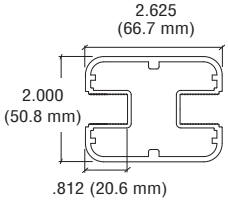
Aluminum Windscreen Posts



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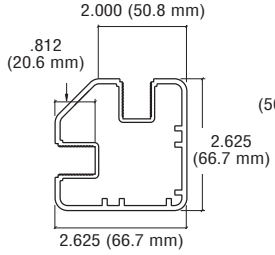

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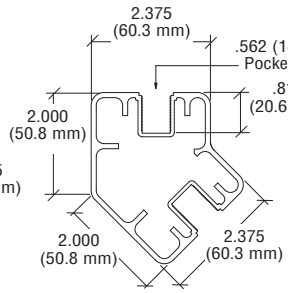

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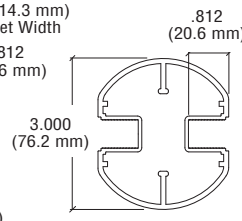

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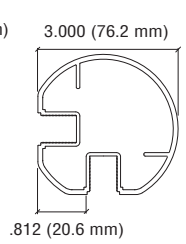

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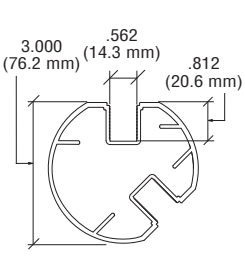


RP536W
Page B447

CRL WALL PROTECTORS

CRL Adjustable Wall Protectors

- Great for Elevators, Hallways, Corridors or Other Areas Where Walls Require Protection
- Easy to Assemble Using Component Parts
- Two Finishes Available
- Custom Powder Coated Finishes Also Available
- Two Styles of Protective End Caps

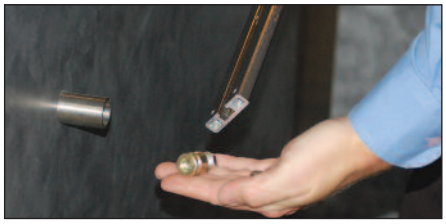
CRL Wall Protectors were designed to protect walls in areas that are subject to heavy pedestrian traffic along with potential impact from cart and gurney activity. The extruded aluminum Wall Protector Rail comes in two standard architectural finishes, and uses a 3/4" (19 mm) diameter Slide Fitting that is fully adjustable horizontally for ease of installation.

Elevators

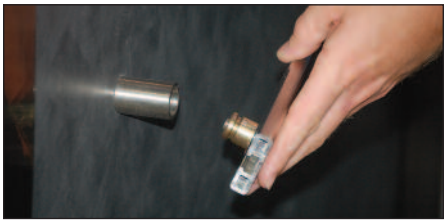
Hallways and Corridors

Three Easy Steps

Secure Mounting Studs to Wall with Appropriate Fasteners

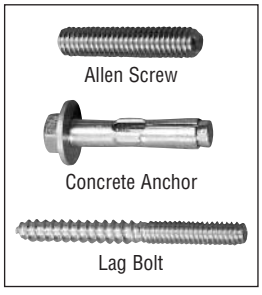


Insert Aluminum Slide Fittings into the Railing



Secure Slide Fittings to Mounting Studs with Set Screws

With Only Five Component Parts



Choice of Attachment Fasteners

Mounting Stud

Slide Fitting

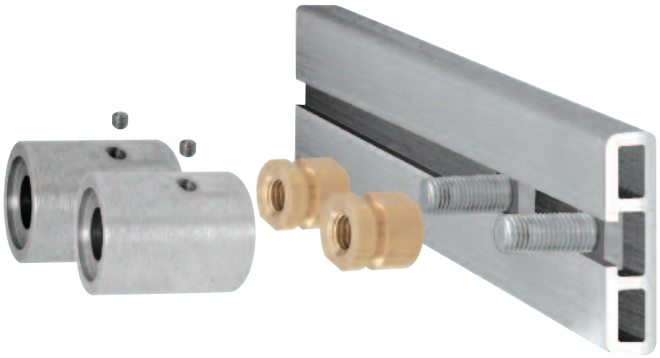
Aluminum Railing

Choice of Protective End Caps

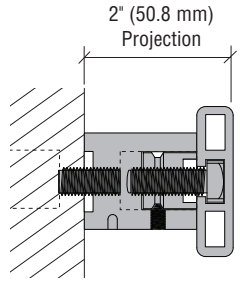
Wall Protector Installation Sequence

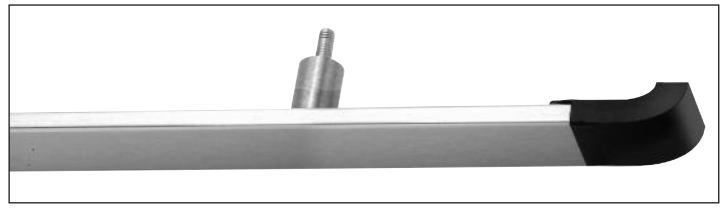
1. Measure the area to be protected.
2. Determine and mark fixing points for the Mounting Studs.
3. Determine which Stud Fasteners work best for your installation.
4. Attach Mounting Studs with Fasteners to pre-marked fixing points.
5. Cut the Aluminum Railing to length.
6. Insert the Slide Fittings into the Aluminum Rails close to their approximate mounting position and snug lightly.
7. Position the Aluminum Railing in front of the Mounting Studs, align the Slide Fittings with the Studs, and tighten the Slide Fittings.
8. Push the Aluminum Railing on the Mounting Studs and secure it by tightening the set screw in the stud groove.
9. Press in the Protective End Caps. Fasten with screws.
10. Grasp Rail at each end and test to assure Slide Fittings have been properly secured to the Stud Fittings. Tighten if loose. Clean area and the job is done.

CRL Adjustable Wall Protectors

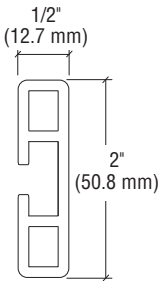


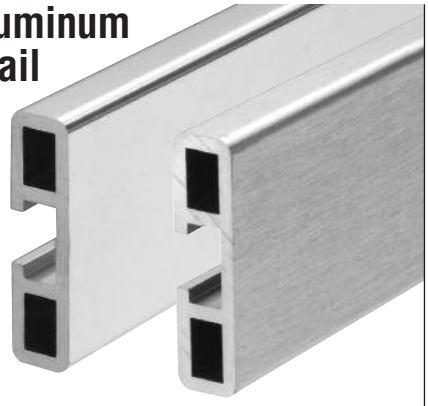
The easy to assemble parts make for quick and professional results on the job site. Simply attach the Mounting Stud to the substrate with your choice of Attachment Fasteners. Then insert the Slide Fitting into the Mounting Stud and tighten the set screw. In just a few easy steps you can install a complete assembly.





CRL Extruded Aluminum Wall Protector Rail





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.

CRL Flush End Cap

CAT. NO. WPEC1BL

CRL Return End Cap

CAT. NO. WPEC2BL

CAT. NO.	FINISH	DESCRIPTION
WPEC1BL	Black Plastic	Flush End Cap
WPEC2BL	Black Plastic	Return End Cap

Minimum order: 1 each. Supplied with self-drilling mounting screws.

CRL Mounting Stud and Slide Fitting Kit

The CRL Mounting Stud and Slide Fitting Kit is sold as a complete package with everything needed (except for the Mounting Stud Fasteners, which you purchase separately). To mount the Aluminum Wall Protector Rail the Mounting Studs are secured to the wall with a maximum spacing of 36" (914 mm) apart. Next the Slide Fitting is inserted in the Wall Protector Rail and aligned with the Mounting Studs, then it is secured in place by tightening down on the Square Head Bolt. After all the Slide Fittings are aligned and secured, slip all the Slide Fittings into the attached Mounting Studs and secure by tightening all of the Allen Screws (one per fitting).

Square Head Bolt

Slide Fitting

Set Screw

Mounting Stud

CAT. NO.	FOR USE WITH
WPR2MBA	Buffed Brite Anodized Rail
WPR2MBSH	Brushed Stainless Anodized Rail

Minimum order: 1 each.

CRL Mounting Stud Fasteners

CRL Mounting Stud Fasteners are stainless steel, with a 3/8"-16 thread size.

CAT. NO.	DESCRIPTION	THREAD SIZE	LENGTH
AS38112	Allen Screw	3/8"-16	1-1/2" (38.1 mm)
CA1222	Concrete Anchor	3/8"-16	2-1/4" (57.1 mm)
HB383S	Hanger Bolt	3/8"-16	3" (76.2 mm)

Minimum order: 1 each for Anchors or Bolts; 10 each for Allen Screws.

3/8"-16 Allen Screw

3/8"-16 Concrete Anchor

3/8"-16 Hanger Bolt

CRL Glass Decorative Film

- Creates Etched Glass Look
- Easy to Install
- Improves Safety and Visual Awareness
- Adds Privacy and Reduces Glare
- Limitless Range of Possibilities
- Glass Decorative Film Can Be Installed Indoors or Outdoors

CRL Decorative Film is designed for glass windows, doors, railings or partitions, and is available in a variety of patterns. CRL's Glass Decorative Film can be used in retail stores, offices, restaurants, and in homes to reduce glare, fading of fabrics, and help cut cooling costs. It improves comfort, privacy, and overall appearance.

The film is a PVC vinyl with an acrylic-based permanent adhesive. Each roll ships in a cardboard tube complete with installation and cleaning instructions. Glass Decorative Film can also be customized with your company name, logo, personalized messages or decorative patterns.

Glass Decorative Film Used as a Privacy Screen

Custom Application With Logo

Glass Decorative Film Installed on Glass Windscreen Panels

CRL Glass Decorative Film can be customized to your individual requirements. Your company's name or logo can be printed onto the film for front windows or doors. It can also be applied to office glass partitions with department or personnel names printed on the Film. CRL Glass Decorative Film is available in bulk rolls for larger projects. Contact CRL Technical Sales for details.

CRL Decorative Film can be installed indoors or out. It is ideal for use on windscreens or balconies due to increased privacy and improved appearance. Applies quickly to existing glass panels or can become a component of new construction. CRL's Decorative Film is resistant to fading, and is easily cleaned using normal household glass cleaners.

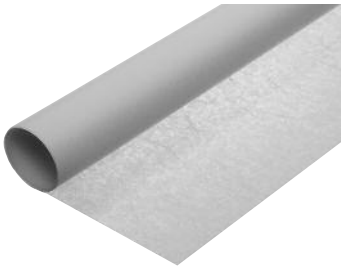
CRL Glass Decorative Film Patterns

- **Six Stock Patterns in 96" (2438 mm) Long Rolls**
- **36" (914 mm) and 48" (1219 mm) Widths Available**
- **Can Be Installed Indoors or Outdoors**

Fiberglass

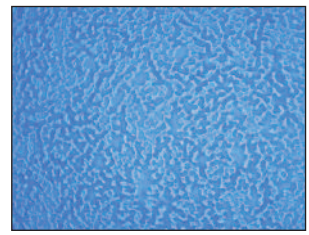
Oriental Gloss

Oriental Matte



Frosted White

Cola Brown



Tahiti Blue

36" X 96" (914 X 2438 MM) ROLLS

CAT. NO.	PATTERN	SURFACE
K0P40236	Fiberglass	Smooth
K0P40336	Oriental Matte	Smooth
KPE20136	Frosted White	Textured
KLE30536	Cola Brown	Textured
KHE10236	Tahiti Blue	Textured

Minimum order: 1 roll. Rolls can be combined for quantity pricing.

48" X 96" (1219 X 2438 MM) ROLLS

CAT. NO.	PATTERN	SURFACE
K0P40248	Fiberglass	Smooth
K0P40148	Oriental Gloss	Smooth
K0P40348	Oriental Matte	Smooth
KPE20148	Frosted White	Textured
KLE30548	Cola Brown	Textured
KHE10248	Tahiti Blue	Textured

NOTE: Glass Decorative Film should not be used in interior applications on thermal pane windows since heat gain could result in air expansion and cause glass breakage.

Preparation and Installation of CRL Glass Decorative Film

- **Instructions in Every Roll**

Prepare Glass Surface

Measure Height and Width

Spray Solution on Adhesive

Place Film on Surface

Squeegee Out Any Bubbles

Trim Edges and Clean

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, 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. Minimum order is one each.

CAT. NO. PAL1K

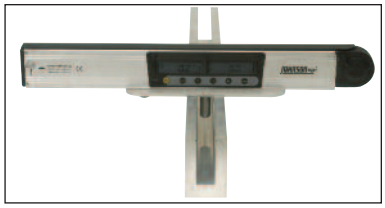
CRL PAL Plumb/Angle/Level Locator Laser Tool

- **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 and Carrying Case. Minimum order is one each.

CAT. NO. 406065

CRL Base Shoe Alignment Adapter



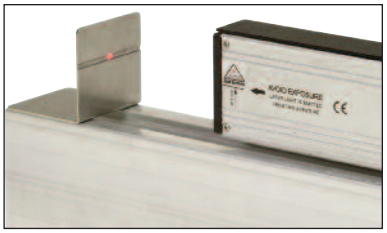
Laser Tool Sold Separately
(See Above)

- **Use With 406065 Laser 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 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



Laser Tool Sold Separately
(See Above)

- **Use With 406065 Laser to Level Railing Base Shoes During Install**

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

CAT. NO. LT1

CRL Prexiso X2 Laser Distance Measurer

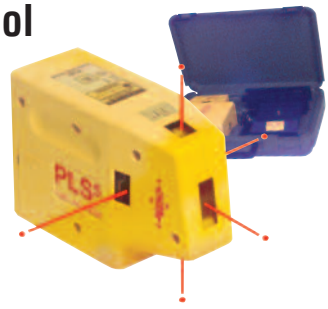
new

- **Measures to 100' (30.5 m) With Accuracy of 1/8" (3.2 mm) or Better Over the Entire Range**
- **Easy to Use Tool Measures Distances, Areas, and Volumes for Materials Estimates**

This CRL Prexiso X2 Laser Distance Measurer will measure distances in feet-inches, inches or meters from 4" to 100' (0.1 m to 30.5 m). It is accurate to 1/8" (3.2 mm) or better over the entire range. This unit is designed for indoor and limited outdoor applications while being able to measure and calculate areas and volumes. The bright laser beam and ergonomic, compact design make it easy to use. Minimum order is one each.

CAT. NO. 3350

CRL Deluxe Laser Tool



- **Establishes Plumb, Level, and Square**
- **Projects Laser Beams Five Ways**

The CRL Deluxe 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 railings. Accuracy is guaranteed to be within 1/8" (3.2 mm) at 100' (30.5 m), even if the mounting surface is out of level. Five bright reference points are easily seen indoors or out, and are powered by three AA batteries. Comes complete with Floor Mount, Magnetic Wall Mount, Layout Targets, Carrying Case, Operating Manual, and full one year warranty. Batteries not included. Minimum order is one each.

CAT. NO. PLS5

CRL Standard Laser Tool

- **Establishes Plumb and Level**
- **Projects Laser Beams Three Ways**

The CRL Standard 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. Operates on three AA batteries up to 30 hours. Comes with a Leather Carrying Pouch, Operating Manual, and full one year warranty. Batteries not included. Minimum order is one each.

CAT. NO. PLS3

CRL 5-Point Laser Level

- **Increase Productivity - Projects Plumb, Level, and Square Laser Points**
- **Electronic Motorized Leveling**
- **Range Up to 100' (30.5 m)**

The CRL 5-Point Laser Level eliminates set-up time and ensures accuracy. It transfers and aligns level, plumb, 90° and grade points. The robust housing is water and dust proof to ensure years of dependable operation. Includes: Laser Tool, Multipurpose Attachment, Recalibration Wrench, Laser Enhancement Glasses, Mounting Strap, and Carrying Case. Requires four AA batteries (not included). Minimum order is one each.

CAT. NO. GPL5E

CRL Clamp and Alignment Fixture

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

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. Minimum order is one each.

CAT. NO. GRAT1

CRL RAILING INSTALLATION TOOLS AND ACCESSORIES

For Pricing Visit Our Web Site or Call Us Toll Free at the Phone Numbers Shown on the Back Cover

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, 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 life 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
- Pitch Angle Calculator on the Back
- Magnetic Base

Back View

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. Also included on the back is a Pitch Angle Calculator. 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

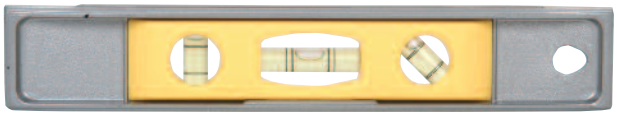
The "Anglefix" Measuring Tool is a precision measuring device that works quickly and easily. Built-in horizontal and vertical spirit levels assist in keeping it in position, so you can reliably set and read any angle. The angle measurement is displayed on an easy to read analog display. A clamping screw 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.

CRL Stanley 9" Torpedo Level

- Heavy-Duty Cast Aluminum Frame
- Easy Top and Side Reading
- Powerful Magnetic Base for "Hands-Free" Use



The CRL Stanley 9" (228.6 mm) Torpedo Level is a durable, heavy-duty cast aluminum frame with large, top read vial window. It's three tinted 360 degree vials, (one for plumb, level, and 45 degree miter) are easy reading and replaceable in seconds. Ideal for commercial work, a powerful magnetic strip on the base allows for "hands-free" operation, and holds the level securely to all iron and steel surfaces. Individually carded in a vinyl pouch. Minimum order is one each.

CAT. NO. ST42465

CRL Stanley 48" FatMax™ Level

- Superior Aluminum Structure for Increased Durability
- Shock Absorbing End Caps
- Non-Marring Side Bumpers

The CRL Stanley 48" (1219 mm) FatMax™ Level is constructed with a seamless one-piece aluminum extrusion, and has a level accuracy of 0.0005" (.01 mm). Block vials and shock absorbing end caps assure maximum accuracy and durability. The FatMax™ Level also features non-marring side bumpers to prevent damage when working against finished surfaces. Minimum order is one each.

CAT. NO. ST43502

CRL Construction Master Calculator

- **Ideal for Contractors, Builders, Architects, Engineers, and Tradespersons**
- **Includes CD-ROM With English and Spanish "How To" Video and User's Guide**

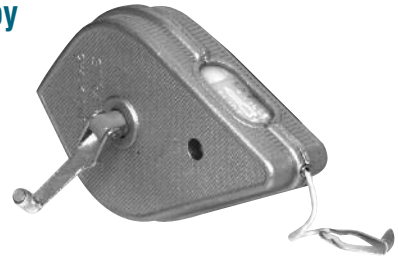
Easy-to-Read Display

The Construction Master is easy to use to quickly find solutions to challenging building and dimensional problems - no need to remember complicated formulas. Enter the numbers just as you would say them and the solutions appear in an instant. Perfect for completing layouts, plans, and bids on the job site or in the office. Reduces the risk of expensive errors when estimating costs and materials. Minimum order is one each.

CAT. NO. CM5

CRL 100 Foot Strait-Line Chalk Reel

- **Made of Aluminum Alloy**
- **100' (30.5 m) Long Line**



The CRL 100 Foot (30.5 m) Strait-Line Chalk Reel has a durable aluminum alloy box with an easy to fill side slide opening. It gives a sharp, clear line every time, and can also double as a plumb bob. Use Cat. No. P8R or P8B (at right) to refill your chalk line. Minimum order is one each.

CAT. NO. 125100

CRL Chalk Refills

- **Available in Blue and Red in Easy to Dispense 8 Ounce Bottles**

CRL Chalk Refills contain a micro-fine chalk for a perfect line every time. It is available in blue and red, and is packaged in a non-breakable, 8 ounce (237 ml) polyethylene bottle with a 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 25 Foot Ultimate Tape Rule

- **Ergonomic Case for a Secure Grip**
- **1" Wide x 25' Long Rigid Blade**

This CRL Ultimate Tape Rule has an innovative inline gear that allows it to fit perfectly in your hand for exceptional comfort and a secure grip. The nylon coated, 25 foot (7.62 m) blade has 16" (406 mm) stud markings, and features a triple rivet hook connection. An active bumper prevents retraction shock ensuring long blade life. Minimum order is one each.

CAT. NO. 54225

CRL Brand GripPro Impact Performance Gloves

- **Shock Absorbing Impact-X™ Padding**
- **Heavy-Duty Elastic Velcro® Closure**
- **Lightweight and Durable Rhino Tex™**

CRL Brand 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 operator comfort. They are also machine washable.

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

Minimum order: 1 pair.

Hilti® TE 2-S Deluxe Rotary Hammer Drill

- **Fast and Efficient Drilling of 3/16" to 3/4" (4.8 to 19.1 mm) Diameter Holes Into Concrete and Masonry**
- **Sturdy Motor With High Load Rating**

This Hilti® TE 2-S Deluxe Rotary Hammer Drill is for drilling mainly into concrete and masonry, however, it's 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" Rotary Hammer Drill

Includes: Depth Gauge, Side Handle, and Carrying Case

- **Variable Speed 0 to 1100 RPM**
- **7 Amp Motor**
- **0 to 4500 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 features a quick bit changeover system for positive bit retention, and a conveniently located reversing switch. Readily accepts S.D.S. Plus or Dual Slot type masonry bits. Minimum order is one each.

CAT. NO. HR2455X

Hilti® TE-C3X and TE-CX Masonry Drill Bits

- **For Drilling Into Concrete and Masonry**

CAT. NO. EBAD1
TE-C3X Masonry Drill Bit

CAT. NO. EBAD2
TE-C3X Masonry Drill Bit

CAT. NO. EBAD3
TE-CX Masonry Drill Bit

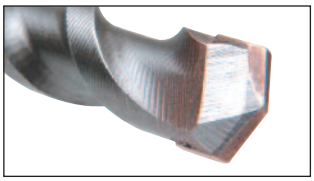
Hilti® TE-C3X and TE-CX are the world's first Hammer Drill Bits with gradient technology, superior heat resistance and ruggedness – even when drilling into rebar. For use with EBA334 and EBA335 Hilti® HSL-3 Expansion Anchors (see page B511).

CAT. NO.	DIAMETER	WORKS WITH	LENGTH
EBAD1	12 mm	EBA334 Expansion Anchor	170 mm
EBAD2	12 mm	EBA334 Expansion Anchor	270 mm
EBAD3	18 mm	EBA335 Expansion Anchor	470 mm

Minimum order: 1 each.

CRL S.D.S. Masonry Drills

- **ANSI Spec. for Wedge-Bolts**
- **Work in Both Regular and Impact Drills**



CAT. NO. SDSW38
Drill for 3/8" Anchors

CAT. NO. SDSW14
Drill for 1/4" Anchors

S.D.S. Masonry Drills are made to the ANSI Specifications required for the proper performance of Wedge-Bolts. 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
SDSW38	.389" (9.9 mm)	WBA38X4 Wedge-Bolt Anchor	12" (305 mm)
SDSW14	.259" (6.6 mm)	WBA14X3 Wedge-Bolt Anchor	8" (203 mm)

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

CRL P-Post Top Rail Installation Tool Kit

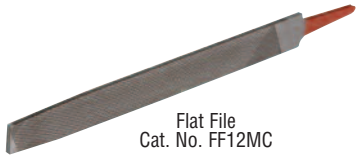
- **Use for Installing Top Rails on P-Posts**
- **Works With Universal Pressure Drill**

The Installation Kit is a valuable tool for drilling and tapping the underside of Schedule 40 Top Rail Tubing prior to attaching to P-Series Top Saddle Posts. Kit Includes: one Center Punch, one Drill Bit Holder, two Tin Coated Drill Bits, one Tube Wax, two Tin 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.

Tube Wax
Cat. No. WS140

Tap Wrench
Cat. No. TR1E

Center Punch
Cat. No. G78



Flat File
Cat. No. FF12MC

Drill Bit Holder
Cat. No. DBH1

6" Quick Grip Clamps
Cat. No. 506QC

Tin Coated 10-32 Tap
Cat. No. T1032TC

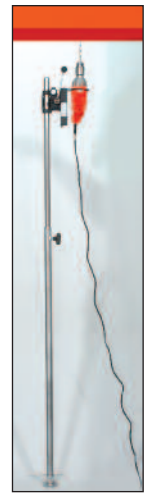
#21 Tin Coated Drill Bit
Cat. No. SLD21

CAT. NO. PS1K

CRL Universal Pressure Drill

- **Drill 3/8" (9.5 mm) Steel in 45 Seconds**
- **Bits Last Up to 10 Times Longer**
- **Cuts Labor Costs by Up to 75%**
- **Pipe Adaptor Available for Drilling Up to 6" (152 mm) Diameter Pipe**

The CRL Universal Pressure Drill is excellent for overhead drilling. Typical 1/2" (12.7 mm) drill bits usually take 210 pounds of pressure to get best results. With the CRL Universal Pressure Drill you'll only need 28 pounds of less tiring and less dangerous pressure to do the same job. Drill bit life can be extended up to 10 times when compared to hand drilling. Excellent results with self-drilling screws too.



Universal Pressure Drill **CAT. NO. UPD1**

CAT. NO. UPDPA1
Pipe Adaptor

The CRL Pipe Adaptor for the Universal Pressure Drill allows you to easily field drill holes in steel pipe up to 6" (152 mm) in diameter. Each Pipe Adaptor is made from steel for added rigidity, and includes a Brace Foot with pivoting saddle and a 28" (711 mm) long Slide Rod. When combined with the Gear Box Drill Mounting Bracket from our Cat. No. UPD1 Universal Pressure Drill (sold separately) you create a portable drill press that will reduce your drilling labor costs by up to 75%. A typical 3/16" drill bit requires 100 pounds of pressure to properly drill into steel. With the Pipe Adaptor and the UPD1, you need exert only 8 pounds of pressure. Minimum order is one each.

CRL 18V DC Cordless Variable Speed Impact Driver/Drill Kit

- **Variable Speed and Impact Frequency**
- **Reversible**
- **3/8" Keyless Chuck**

The CRL 18 Volt Cordless Variable Speed Impact Driver/Drill features a keyless 3/8" (9.5 mm) chuck and has two speed ranges: 0 to 500 rpm, and 0 to 1150 rpm. Impact drill has an impact frequency of 6400 or 18000 strokes per minute.

CAT. NO.	DESCRIPTION
LD147	18 Volt DC Variable Speed Impact Drill Kit
LD147B	18 Volt DC Battery Cartridge for LD147
LD147C	110V AC Charger for 18 Volt DC Battery

Minimum order: 1 each.

Includes: Battery, 110V AC Charger, Bit Assortment, and Molded Carrying Case

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.

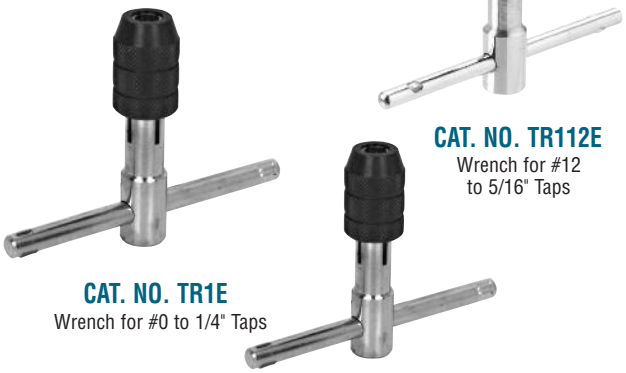
CAT. NO. EBADP1

CRL RAILING INSTALLATION TOOLS AND ACCESSORIES

For Pricing Visit Our Web Site or Call Us Toll Free at the Phone Numbers Shown on the Back Cover

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

This CRL Tap Handle Wrench has a sliding handle with spring tension stop, which can be extended to full length for more leverage. It has a positive grip knurled nut. Three sizes are available to hold tap sizes from #0 to 1/2" (12.7 mm). Minimum order is one each.

CRL Jobbers Length Fractional Size High Speed Steel Drills

- Straight Shank Drills for Taps

These CRL Jobbers Length Fractional Size Drills are available in the most popular fractional sizes for general use in metal or wood. Minimum order is one each.

CAT. NO.	DRILL BIT SIZE
601316	3/16" for 1/4"-20NC Taps
60114	1/4" for 5/16"-18NC 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. Other sizes are available at **crlaurence.com**.

CRL Fractional Size 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.

CAT. NO. 151420
1/4"-20NC

CAT. NO. 151428
1/4"-28NF

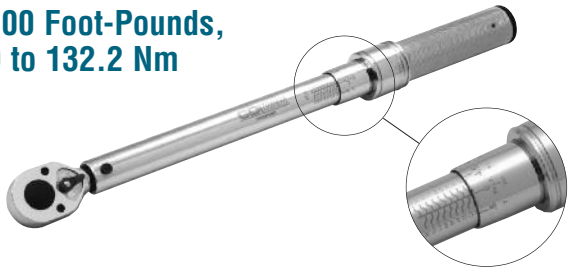
CAT. NO. 155618
5/16"-18NC

CAT. NO. 153816
3/8"-16NC

CAT. NO. 151213
1/2"-13NC

CRL Adjustable Click Torque Wrench

- Knurled 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. 7718H
9/16" 6-Pt. Socket

CAT. NO. 7719H
19 mm 6-Pt. Socket

CAT. NO. 7716H
22 mm 6-Pt. Socket

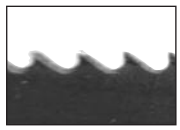
CAT. NO. 7290
3/8" Hex Bit

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" (9.5 mm) Hex Bit

Minimum order: 1 each.

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" (120.7 mm) material to handle most requirements, and uses standard 44-7/8" x 1/2" (1140 x 12.7 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 feet (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 10" Compound Miter Saw

- Performs Bevel and Miter Cuts
- Powerful 15 AMP Motor Delivers 4600 RPM
- Weighs Only 25.5 Pounds (11.5 kg) for Easy Portability

This Compound Miter Saw has a dual post compound-pivoting arm that bevel cuts up to 45 degrees to the left, and miter cuts 0 to 45 degrees on the left, and 0 to 52 degrees on the right. This saw has nine positive stops at 15, 22.5, 30, or 45 degrees right or left, and 0 degrees (90 degree cuts). Includes one 40-tooth Carbide Tipped Blade, Socket Wrench, Dust Bag, Triangular Rule, and Vertical Vise. **NOTE:** This tool is not designed for use with abrasive cut-off wheels. Minimum order is one each.

CAT. NO. LS1040

CRL Nordic 10" Carbide Tipped Aluminum Saw Blade

- Tooth Pattern is Triple Chip Design
- Nordic Quality
- 5/8" (16 mm) Arbor

Designed with the tip inserted into the blade for maximum strength, these CRL Nordic Carbide Tipped Saw Blades cut all types of aluminum, magnesium, copper, and brass-both hard coat and standard finishes. They give clean cuts with a smooth finish. Minimum order is one each.

CAT. NO. CSB10X100AX

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

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.

CAT. NO.	CONTENTS	QTY/CASE
WS140	15 Oz. (425 g)	24

Minimum order: 1 each.

CRL Plate Glass Dollies

- Caster Design Allows Turn-on-a-Dime Maneuvering
- Felt Pads Cushion Loads
- Three Available Lengths

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 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" (38.1 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).

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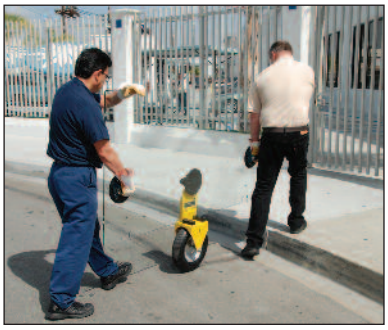
new

CRL All Terrain Dolly

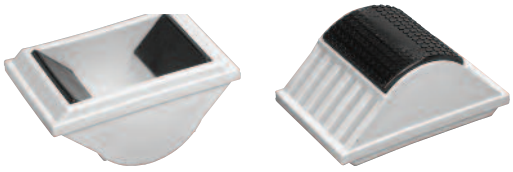
CAT. NO. ATD1

- 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 jobsite. 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 jobsites. 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.

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. Minimum order is one pair.

CAT. NO. RB200

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" (63.5 to 114 mm). The steel carriage is carpeted to prevent marring of the surfaces. Minimum order is one each.

CAT. NO. LD450

CRL RAILING INSTALLATION TOOLS AND ACCESSORIES

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CRL 8" (203 mm) Pump-Up Vacuum Lifter for Flat Glass

MANUFACTURED IN THE USA BY C.R. LAURENCE
An ISO9001:2008 Certified Company

- Built Tough By CRL
- Safe Lifting Weight Up to 124 Pounds (56 kg)
- Tough ABS Poly Handle
- Molded Carrying Case

CAT. NO. S108
8" (203 mm) Pump-Up Vacuum Lifter for Flat Glass

Minimum order: 1 each.

CRL 8" (203 mm) Pump-Up Vacuum Lifter for Curved Glass

MANUFACTURED IN THE USA BY C.R. LAURENCE
An ISO9001:2008 Certified Company

- Built Tough By CRL
- Safe Lifting Weight Up to 124 Pounds (56 kg)
- Tough ABS Poly Handle
- Molded Carrying Case

CAT. NO. S109
8" (203 mm) Pump-Up Vacuum Lifter for Curved Glass

Minimum order: 1 each.

CRL Aluminum Suction Lifters

CAT. NO. 05062
Two Suction Cups in a Durable Metal Handle

CAT. NO. 05063
Three Suction Cups in a Durable Metal Handle

- Durable Metal Frame With Hard Coating
- Adhere to Smooth, Non-Porous Surfaces
- 4-5/8" (117 mm) Diameter Cups Are Trigger Actuated

Minimum order: 1 each.

CRL Plastic Suction Lifters

CAT. NO. 05062P
Two Suction Cups in a Strong Plastic Handle

CAT. NO. 05063P
Three Suction Cups in a Strong Plastic Handle

- Sturdy, Corrosion Resistant Plastic Frame
- Trigger Actuated 4-5/8" (117 mm) Diameter Cups Grip Any Smooth Surface

Minimum order: 1 each.

CRL Glass Handling Gloves

CAT. NO. SG10
Knit Wrist Gloves

CAT. NO. SG12
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 Safety Glasses

CAT. NO. CL0210
Clear Polycarbonate Lens

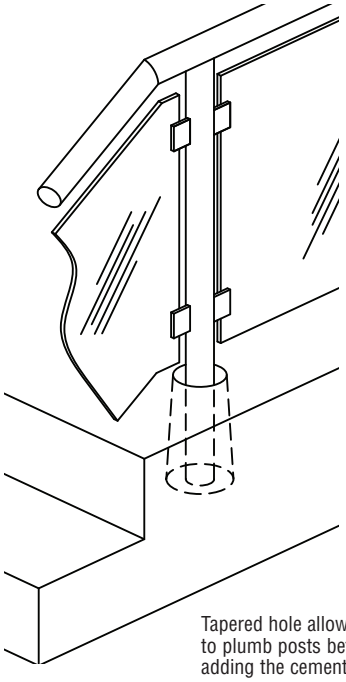
CAT. NO. CL0220
Gray Polycarbonate Lens

- 100% Polycarbonate Lens Offers Protection
- Choose From Clear or Gray Tinted Lenses
- Adjustable Temples for Comfortable Fit

Minimum order: 1 pair. Colors can be combined for quantity pricing.

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



Tapered hole allows you to plumb posts before adding the cement

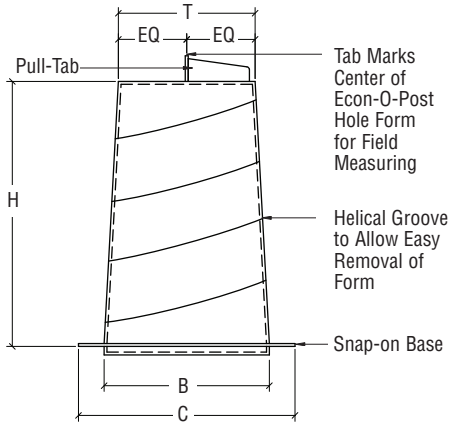
- Sizes for Large or Small Posts

CAT. NO. 3006
Small Form

CAT. NO. 4012
Large Form

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.

- Easy to Install and Remove



SPECIFICATIONS

CAT. NO. SIZE	DIMENSIONS T	H	B	C	POST SIZE OF RAILING OR FENCE
3006 Small	3" (76.2 mm)	6" (152.4 mm)	3-1/2" (88.9 mm)	4-3/4" (120.6 mm)	Up to 2-3/8" (60.3 mm) O.D. Pipe Up to 2" (50.8 mm) Square Post
4012 Large	4" (101.6 mm)	12" (304.8 mm)	5" (127 mm)	7" (177.8 mm)	Up to 3-1/2" (89 mm) O.D. Pipe Up to 2-1/2" (63.5 mm) Square Post

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

CRL Safety Guard Rail Base System

- Use Them With Your Own 2x4's to Create Temporary Guard Rails
- Cost Effective, Reusable, and Meets OSHA Requirements

The CRL Safety Guard Rail Base System is a reusable base 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. The CRL Safety Guard Base needs no bracing, and anchors 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, safety-orange polymer, and have a one-year replacement guarantee. Minimum order is one each.

SPECIFICATIONS:
Base Dimensions: 5-5/8" x 8-5/8" (143 x 219 mm) Square
Height: 5-1/8" (130 mm)
Weight: 3 Pounds (1.36 kg)

CAT. NO. SGR1

CRL Post Leveling Stand

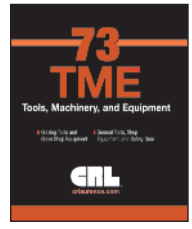
- Quick Clamping Action Fits 1-1/2" Schedule 40 Pipe
- Rigid Steel Construction
- Folds Flat for Storage
- Simple Height and Plumb Adjustment

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



See the CRL73 Master Catalog for our complete selection of quality tools

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

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**

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® for Both Exterior and Interior Applications

Rockite® 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 (.454 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	1-1/2	24	710
8 (2.4 m)	10 (4.54 kg)	135.2	4000	3	48	1420
12 (3.6 m)	15 (6.80 kg)	202.8	6000	4-1/2	72	2130

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 as 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' (2.4 m) of Base Shoe (both sides) you need 10 pounds of cement and 48 ounces of water for the correct mix.

EXAMPLE: #2 For 12' (3.6 m) of Base Shoe (both sides) you need 6,000 ml of cement and 2130 ml 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.

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 Pouring Pail
GRP33	Plastic Scoop
GRP34	Mixing Spoon

Minimum order: 1 each.

CRL Bituminous Paint

new

- **Creates a Barrier Between Railing Hardware and Concrete**
- **Prevents Electrolysis and Corrosion**

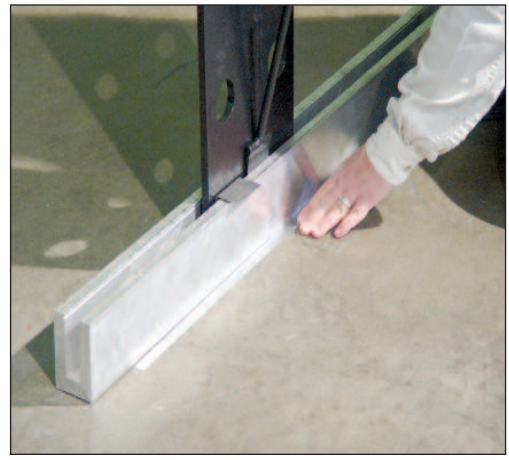
CAT. NO. BC17A
17 Ounces (482 Grams)

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. For clean up use Cat. No. MEK1GL. Minimum order is one each.

CRL Aluminum Shim Strips

- **For Use in Plumbing Heavy Aluminum Base Shoe**
- **Available in Three Thicknesses: 1/64", 1/32", and 1/16"**



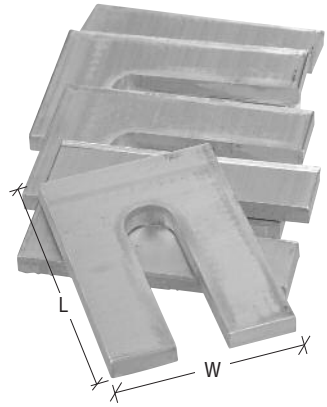
CRL Aluminum Shim Strips are used under one side of the Base Shoe to adjust it into a plumb position before securing it with the fasteners. Length can be trimmed as required for an exact fit.

CAT. NO.	THICKNESS	WIDTH	LENGTH	QTY/PKG
BSS164	1/64" (0.40 mm)	3/4" (19 mm)	24" (610 mm)	10
BSS132	1/32" (0.80 mm)	3/4" (19 mm)	24" (610 mm)	10
BSS116	1/16" (1.6 mm)	3/4" (19 mm)	24" (610 mm)	10

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"**
- **Won't Compress Under Aluminum Base Shoe**



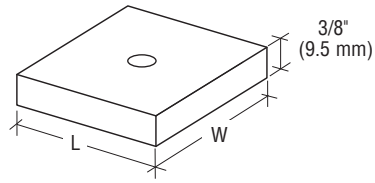
CRL Aluminum Horseshoe Shims are ideal for Base Shoe installations. They will not compress or project beyond the Base Shoe. They are also the same base metal as the Base Shoe, so corrosion is minimized. Different thicknesses can be stacked to fill odd size gaps.

CAT. NO.	THICKNESS	"W" WIDTH	"L" LENGTH
AHS64	1/4" (6.3 mm)	2" (50.8 mm)	3" (76.2 mm)
AHS68	1/8" (3.2 mm)	2" (50.8 mm)	3" (76.2 mm)
AHS66	1/16" (1.6 mm)	2" (50.8 mm)	3" (76.2 mm)

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

CRL Aluminum Drain Blocks

- **Placed Under Aluminum Base Shoe to Provide Drainage Space**
- **Great for Balconies and Decks**
- **Sizes to Fit All CRL Heavy Base Shoe**



Place CRL Aluminum Drain Blocks under exterior installed Aluminum Base Shoes to provide drainage space for water run-off. This is especially important where Base Shoe will be installed on balconies or decks where water could pool unless proper drainage is available. One Drain Block should be placed under each mounting hole. 3/8" (9.5 mm) thick Blocks can be rotated to fit different width Base Shoes. Ten of one size per pack.

CAT. NO.	"W" WIDTH	"L" LENGTH	FITS BASE SHOE
BSDB38	2-1/4" (57.1 mm)	2-1/2" (63.5 mm)	B5L, B5S, B5T
BSDB58	2-9/16" (65.1 mm)	2-7/8" (73 mm)	B6S, L56S
BSDB34	2-1/2" (63.5 mm)	2-3/4" (69.9 mm)	B7S
LSDB21	3-1/4" (83 mm)	3" (76 mm)	L21, L25

Minimum order: 1 package. Sizes can be combined for quantity pricing.

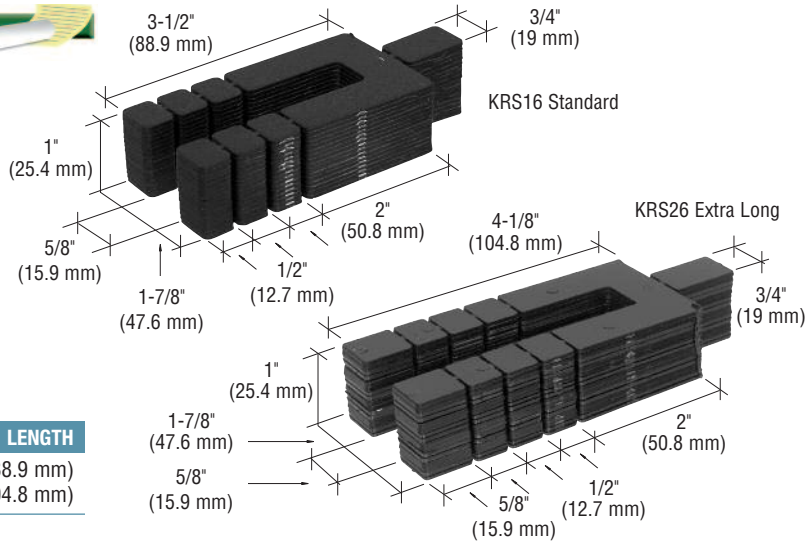
CRL RAILING INSTALLATION TOOLS AND ACCESSORIES

CRL Shimstack Shims

MSDS

- **Adjustable Size Options Lets You Choose the Desired Thickness From 1/16" to 1" (1.6 to 25.4 mm)**
- **Standard and Extra Long Sizes**

Shimstack Shims give you fast, low cost leveling. 16 heat-sealed pieces make up one 1" (25.4 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.	THICKNESS	LENGTH
KRS16	1/16" (1.6 mm)	3-1/2" (88.9 mm)
KRS26	1/16" (1.6 mm)	4-1/8" (104.8 mm)

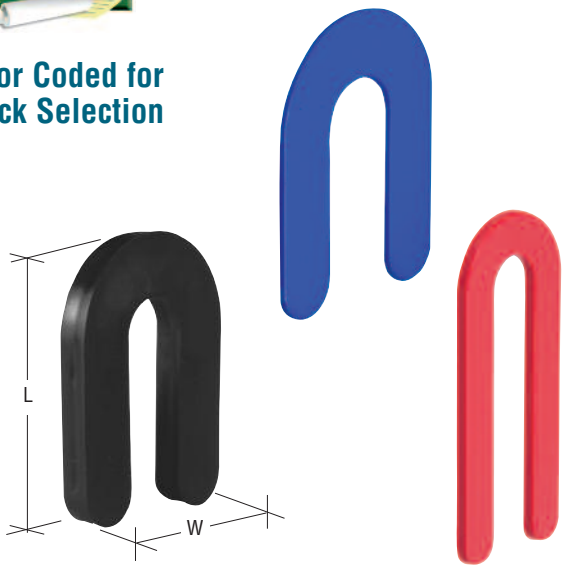
Minimum order: 1000 shims. Must order in increments of 1000. Sizes can be combined for quantity pricing.

CRL Plastic Horseshoe Shims

MSDS

- **1/16", 1/8", and 1/4" (1.6, 3.2, and 6.3 mm) Thicknesses**
- **Simplifies All Rail Leveling Requirements**
- **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" (38.1 mm)	2" (50.8 mm)
PHS8	Red	1/8" (3.2 mm)	1-1/2" (38.1 mm)	2" (50.8 mm)
PHS6	Blue	1/16" (1.6 mm)	1-1/2" (38.1 mm)	2" (50.8 mm)
PHS24	Black	1/4" (6.3 mm)	2-5/16" (58.7 mm)	3" (76.2 mm)
PHS28	Red	1/8" (3.2 mm)	2-5/16" (58.7 mm)	3" (76.2 mm)
PHS26	Blue	1/16" (1.6 mm)	2-5/16" (58.7 mm)	3" (76.2 mm)
PHS14	Black	1/4" (6.3 mm)	1-1/2" (38.1 mm)	3-1/2" (88.9 mm)
PHS18	Red	1/8" (3.2 mm)	1-1/2" (38.1 mm)	3-1/2" (88.9 mm)
PHS16	Blue	1/16" (1.6 mm)	1-1/2" (38.1 mm)	3-1/2" (88.9 mm)

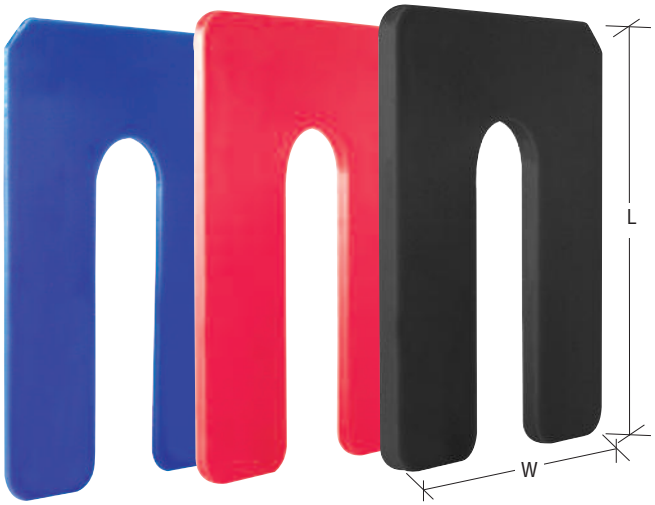
Minimum order: 100 shims. Must order in increments of 100. Sizes can be combined for quantity pricing.

CRL Jumbo Plastic Horseshoe Shims

MSDS

- **Large 3" x 4" (76 x 102 mm) Size**
- **Available in Three Thicknesses**
- **High Impact Stryrene**

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" (76.2 x 101.6 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" (76.2 mm)	4" (101.6 mm)
PHS38	Red	1/8" (3.2 mm)	3" (76.2 mm)	4" (101.6 mm)
PHS36	Blue	1/16" (1.6 mm)	3" (76.2 mm)	4" (101.6 mm)

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

CRL RAILING INSTALLATION TOOLS AND ACCESSORIES

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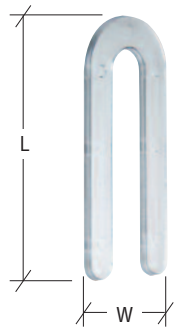
CRL Clear Plastic Horseshoe Shims

- Clear Color Helps Hide Shim
- 1/16", 1/8", and 1/4" Thicknesses



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" (1.6, 3.2, and 6.3 mm). All sizes have 9/16" (14.3 mm) space between the legs.

CAT. NO.	THICKNESS	"W" WIDTH	"L" LENGTH
CHS14	1/4" (6.3 mm)	1-1/2" (38.1 mm)	3-1/2" (88.9 mm)
CHS18	1/8" (3.2 mm)	1-1/2" (38.1 mm)	3-1/2" (88.9 mm)
CHS16	1/16" (1.6 mm)	1-1/2" (38.1 mm)	3-1/2" (88.9 mm)

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

CRL Clear Plastic Setting Blocks

- 80±5 Durometer Hardness
- Barely Visible Blocks are Great for Use in Railing Installations

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.

- Available in Five Sizes

CAT. NO.	THICKNESS	WIDTH	LENGTH
PSB040	.040" (1 mm)	1/4" (6.3 mm)	2" (50.8 mm)
PSB125	1/8" (3.2 mm)	1/4" (6.3 mm)	2" (50.8 mm)
PSB156	5/32" (4 mm)	1/4" (6.3 mm)	2" (50.8 mm)
PSB250	1/4" (6.3 mm)	1/4" (6.3 mm)	2" (50.8 mm)
PSB375	3/8" (9.5 mm)	1/4" (6.3 mm)	2" (50.8 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

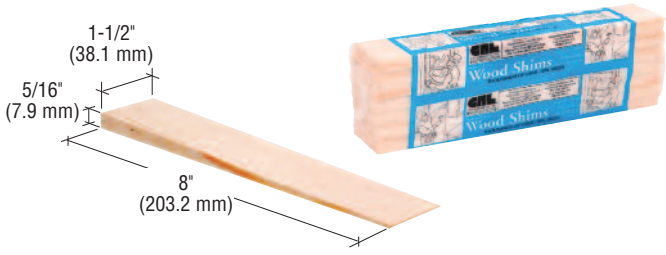
CRL Plastic Bearing Shimstrips are intended for use in placing and leveling of precast panels and tilt slabs. Just snap off the length you need for each job, and stack to the required thickness.

CAT. NO.	THICKNESS	WIDTH	LENGTH
PBS04	1/4" (6.3 mm)	2" (50.8 mm)	4" (101.6 mm)
PBS08	1/8" (3.2 mm)	2" (50.8 mm)	4" (101.6 mm)
PBS06	1/16" (1.6 mm)	2" (50.8 mm)	4" (101.6 mm)

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

CRL Wood Shims

- Now in White Wood or Cedar



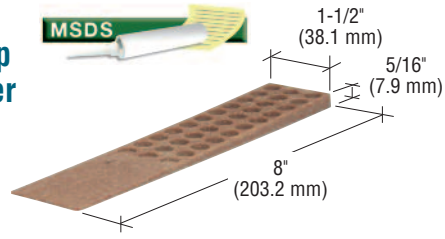
CRL Wood Shims can be used in so many ways: for leveling railing base shoes, door and window frames, cabinets and large appliances; for stirring paints and stains; for spreading mastics and adhesives. They are handy to use, with no more mess of breaking or cutting shingles. New Cedar Shims snap off cleaner, and provide more rot resistance when used in areas of high moisture. Wood Shims measure 8" (203.2 mm) long x 1-1/2" (38.1 mm) wide. Taper is from 5/16" to 1/16" (7.9 to 1.6 mm).

CAT. NO.	TYPE	SHIMS/CTN
NWS9	White Wood	420 Shims
NWS9C	Cedar	432 Shims

Minimum order: 1 carton. Can be combined with all other Wood Shims for quantity pricing.

CRL Wood Composite Shims

- 35% Better Load Support and Snap Four Times Easier Than Traditional Wood



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. Composite Shims measure 8" (203.2 mm) long x 1-1/2" (38.1 mm) wide. Taper is from 5/16" to 1/16" (7.9 to 1.6 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.

CRL Makita 4-1/2" Angle Grinder

new

- 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

CAT. NO. GA4530

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.

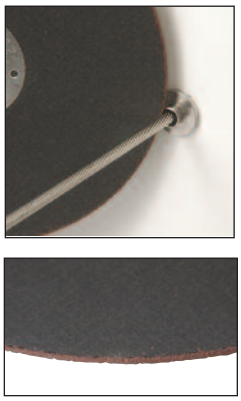
The accessory control handle can be mounted on the left or right for added operator comfort, while the entire gear housing rotates to 90 degree stop points to aid with cutting operations. Special 'Labyrinth' construction featuring protective zig-zag varnish seals help protect the motor from dust and debris and extend tool life. Minimum order is one each.

Standard Equipment:
- 4-1/2" (114.3 mm) Grinding Wheel
- Wheel Guard
- Lock Nut
- Lock Nut Wrench
- Side Handle
- Inner Flange

CRL Makita Super Thin Cut-Off Wheel

- 4-1/2" (114.3 mm) Diameter
- Use for Cutting and Notching Stainless Steel Cladding and Cables
- Just 3/64" (1.2 mm) Thick

new



CRL Super Thin Cut-Off Wheels are just 3/64" (1.2 mm) thick for minimal stock removal and quick cutting when notching or cutting metal cladding. The fine grit edge cuts with a minimum of edge distortion. These stainless blades are sold by the package of 25.

CAT. NO.	DESCRIPTION	UNIT
7241112A25	4-1/2" (114.3 mm) Super Thin Wheel	25/Pkg.
1351032*	Wheel Guard	1
2243789*	Inner Flange	1

Minimum order: 1 each or 1 package. *Wheel flange and wheel guard are required to use Super Thin Wheels on the GA4530 Grinder.

CRL Makita Resin Fiber Finishing Discs

- 4-1/2" (114.3 mm) Diameter
- Used to Remove Sharp Edges or Burrs From Cladding or Hand Rails
- Superior Stock Removal

new

These 4-1/2" (114.3 mm) finishing discs are great for wood or metal. Quickly finish freshly cut cable or cladding edges to remove burrs or rough edges.

CAT. NO.	DESCRIPTION	UNIT
794106A5	50 Grit Disc	5/Pkg.
794107A5	80 Grit Disc	5/Pkg.
794108A5	120 Grit Disc	5/Pkg.
7430363*	4-1/2" (114.3 mm) Rubber Backer Pad	1
1930480*	Lock Nut for Backer Pad	1

Minimum order: 1 each or 1 package. *Backer pad and lock nut are required to use discs on GA4530 Grinder.

CRL Ultra-tec® Cable Installation Tools

- Everything for Installing Stainless Steel Cable
- Get Additional Information at crlaurence.com

CRL Ultra-tec® Cable Grip Locking Pliers

CRL Ultra-tec® Cable Grip Locking Pliers with machined jaws to grip the cable as you are tensioning it. Prevents damage to the cable while being tensioned. Minimum order is one each.

CAT. NO. CBLGP1

CRL Ultra-tec® Cable Cutter

Use CRL Ultra-tec® Cable Cutters for burr-free cutting of cable. Cuts cable up to 1/4" (6.3 mm) in diameter. Minimum order is one each.

CAT. NO. CBLCTR1

CRL Ultra-tec® Pre-Tensioner Locking Pliers

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 Tensioning Gauge

Use this CRL Ultra-tec® Cable Tensioning Gauge to accurately check the tension on 1/8" (3.2 mm) and 3/16" (4.7 mm) diameter cables typically installed in Cable Railing Systems. Minimum order is one each.

CAT. NO. CBLTG1

CRL Ultra-tec® Cable Swager Installation Tool Kit

See the CRL73 Master Catalog for our complete selection of quality tools

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

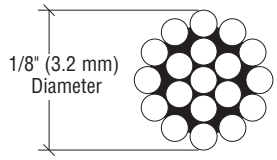
NOTE: Air Over Hydraulic Pump requires an air compressor capable of delivering at least 20 CFM and 120 P.S.I. at the air inlet on the box. Minimum 1/4" (6.3 mm) I.D. air hose with a 1/4" male pipe thread required (not included).

CAT. NO. CBLS1K

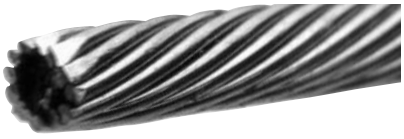
CRL Stainless Steel Cables

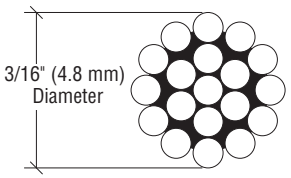
- For Use With All CRL Railing Systems
- 1/8" and 3/16" (3.2 and 4.8 mm) Diameter 1 x 19 Type 316 Stainless Steel Construction Cables
- Uncoated and Low Maintenance

CRL Stainless Steel Cable is an infill option for any of our railing systems. Recommended spacing between cables is 3" (76.2 mm) center-to-center. The 1 x 19 construction cables are engineered to hold static loads without stretching, and is relatively stiff. Order cable in spools, or we can custom cut it to your desired length. Roll length is 250' (76.2 m). Minimum order is one roll. For Pre-Cut Cable Kits see page B389.



CAT. NO. CBL18



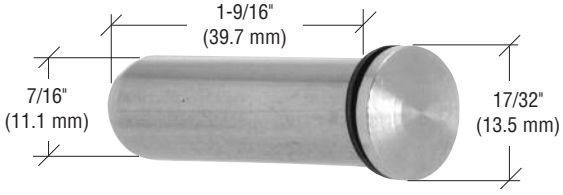


CAT. NO. CBL316

CRL 1 x 19 Construction Stainless Steel Cable is designed with 19 separate wires twisted into a single strand. See page B507 for Cable Installation Tools.

CRL Push-Lock Fittings

- For Use With 1/8" (3.2 mm) Diameter 1 x 19 Type Cable Only



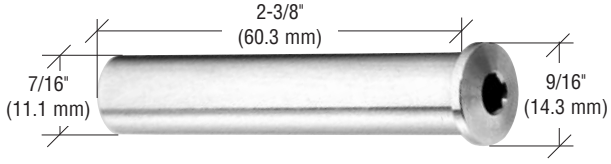
The CRL Push-Lock Fitting is designed to rest in a hole in the end post. When used with an end post 1-1/2" (38.1 mm) or more in thickness, the Push-Lock Fitting is hidden inside the end post, with only the head exposed on the outside. A plastic washer is included and acts as a scratch resistant barrier between the Push-Lock Fitting and the post.

CAT. NO.	FITS CABLE DIAMETER	DESCRIPTION
PL4SS	1/8" (3.2 mm)	Push Lock Fitting

Minimum order: 1 each.

CRL Tensioning Receivers

- For Use With 1/8" and 3/16" (3.2 and 4.8 mm) Diameter 1 x 19 Type Cable



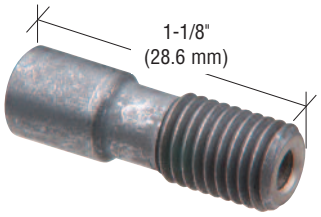
The CRL Tensioning Receiver is a tensioning device hidden inside the end posts, with only the head of the Receiver exposed on the outside of the post. It allows the Cable to be adjusted between spans. The inside is female-threaded to accept the male-threaded Cat. No. SWGST Swaging Stud that is attached to the Cable. Requires 3/16" hex wrench to fasten. 7/16" (11 mm) diameter clear hole is required when drilling post for fitting.

CAT. NO.	FITS CABLE DIAMETER	DESCRIPTION
TENRR1	1/18" (3.2 mm)	Tensioning Receiver
TENRR2	3/16" (4.8 mm)	Tensioning Receiver

Minimum order: 1 each.

CRL Swaging Stud Fittings

- For Use With 1/8" and 3/16" (3.2 and 4.8 mm) Diameter 1 x 19 Type Cable
- This Fitting Requires a Swaging Tool For Installation (See Page B507)

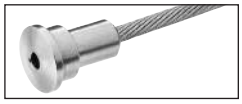


Swaged on the end of the Stainless Steel Cable, this part is used with the Tensioning Receiver. When installed, it is completely hidden inside the Fitting so you will never see any unattractive swaging marks. The threaded surface is coated with a baked-on, molybdenum-based dry film lubricant to prevent the threads from galling when tensioned and in extreme environments.

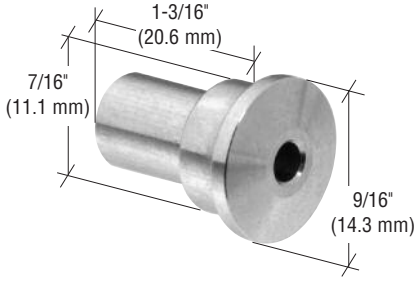
CAT. NO.	FITS CABLE DIAMETER	DESCRIPTION
SWGST1	1/8" (3.2 mm)	Swaging Stud Fitting
SWGST2	3/16" (4.8 mm)	Swaging Stud Fitting

Minimum order: 1 each.

CRL Ferrule Fittings



- For Fixed, Non-Tensioning End of 1/8" and 3/16" (3.2 and 4.8 mm) Diameter 1 x 19 Type Cable
- This Fitting Requires a Swaging Tool For Installation (See Page B507)



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 located in the post.

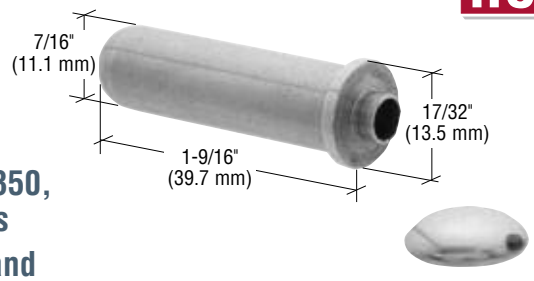
CAT. NO.	FITS CABLE DIAMETER	DESCRIPTION
FXFRL1	1/8" (3.2 mm)	Ferrule Fitting
FXFRL2	3/16" (4.8 mm)	Ferrule Fitting

Minimum order: 1 each.

CRL Ultra-tec® Pull-Lock Cable Fittings

new

- 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

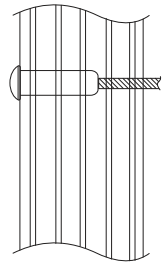


CRL Ultra-tec® now offers a cable system that can be installed by hand. No special tools or swaging equipment are required. Just tension the cables and cut the excess cable off the back side of the fitting using a Right Angle Grinder or Cutting Wheel. Press on the Stainless Steel Cap to cover the cable's end and you are done.

CAT. NO.	FITS CABLE DIAMETER
PUL4SS	1/8" (3.2 mm)

Minimum order: 1 each.

CAT. NO. PLCAP
CRL Ultra-tec® Replacement Cap for PUL4SS Pull Lock



CRL Ultra-tec® Cable Release Tool

new

Innovative tool that 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" (3.2 mm)

Minimum order: 1 each.

CRL Ultra-tec® Grommet Installation Tool Kit

new

If Cable Grommets are required, CRL's Ultra-tec® Grommet Installation Tool Kit is needed for proper alignment and installation. Simply place grommet over hole, and tap lightly with a hammer.

CAT. NO.	FITS CABLE GROMMETS
CBLGTK1	CBLG4/CBLG5

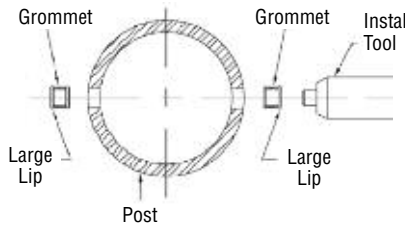
Minimum order: 1 each.

CRL Ultra-tec® Cable Grommets

new

- Grommets Help Prevent Rust in Exterior Applications
- For Use With 1/8" (3.2 mm) Diameter Cable
- Designed for Square, Round, or Rectangular Posts With .120" Wall Thickness
- Made From Black UV Resistant Delrin

CRL Ultra-tec® 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.



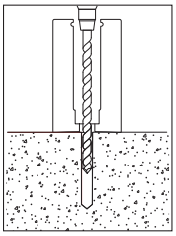
Use CRL Ultra-tec® CBLGTK1 Grommet Installation Tool Kit for Installation (Sold Separately, See Above)

CAT. NO.	DESCRIPTION	FITS CABLE DIAMETER
CBLG4	Grommets for Level Rails	1/8" (3.2 mm)
CBLG5	Grommets for Stairway Rails	1/8" (3.2 mm)

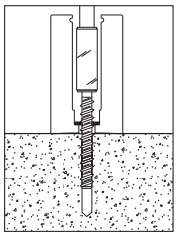
Minimum order: 100 each.

CRL RAILING INSTALLATION FASTENERS

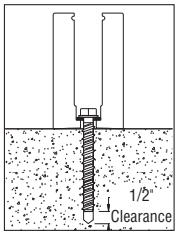
CRL Wedge-Bolt Anchors



Using the proper diameter ANSI Grade drill bit, drill a hole into the concrete to a depth of at least 1/2" (12.7 mm), or one anchor diameter deeper than the embedment required. Blow the hole clean of dust and other material.



Insert the Wedge-Bolt through the Wedge-Bolt Washer and Base Shoe into the Wedge-Bolt hole. Begin tightening the Wedge-Bolt by rotating clockwise and applying downward pressure. This will engage the first few threads as the Wedge-Bolt begins to advance.



Continue tightening the Wedge-Bolt until the Wedge-Bolt and Washer are firmly seated against the Base Shoe while achieving the required embedment depth. In extremely dense materials, use of an impact wrench is recommended.

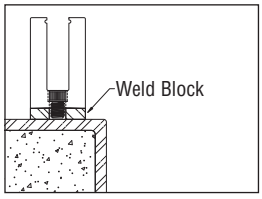
• Zinc Plated Low Carbon Steel

Wedge-Bolt Anchors achieve their load capacity by the thread undercutting the base material. Up to 40 ft./lbs. of torque can be applied in 4000 psi concrete to achieve maximum clamping torque to the Base Shoe. Wedge-Bolt Anchors are manufactured from heat treated carbon steel, bright zinc plated with a chromate treatment. **NOTE**: For correct size Wedge-Bolt Anchors to fit our Base Shoe, see page B157.

CAT. NO.	DESCRIPTION	QTY/CARTON
WBA14X3	1/4" x 3" (6.3 x 76.2 mm) Wedge-Bolt Anchor	50
WBAW14*	Wedge-Bolt Washer for WBA14X3	50
WBA38X4	3/8" x 4" (9.5 x 101.6 mm) Wedge-Bolt Anchor	50
WBAW38*	Wedge-Bolt 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 of the Base Shoe to the concrete.

CRL Weld Blocks

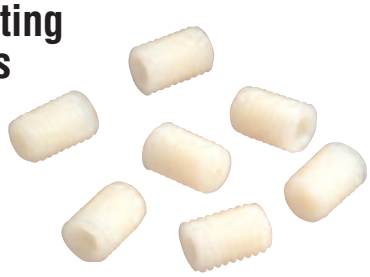


CRL Weld Blocks are made of hot rolled steel with a centered 1/2"-13 tapped hole for use with the CRL Base Shoe. Eliminating the need for drilling and tapping on job site, when welded to a structurally sound steel beam or angle, they provide an attachment point using our pre-drilled Base Shoe and our Cat. No. SHCS12X34 Stainless Steel Socket Head Cap Screws. A favorite technique is to attach the Weld Blocks to the Base Shoe, set it in the proper position, and then weld the Weld Blocks to the beam, angle, or embedment plate.

CAT. NO.	DESCRIPTION	QTY/PACK
BSWB12	2-1/2" (63.5 mm) x 2-1/4" (57.2 mm) x 1/2" (12.7 mm) Use with B5S, B5T, B5L Series Base Shoes.	10
BSWB712	2-1/2" (63.5 mm) x 2-3/4" (69.9 mm) x 1/2" (12.7 mm) Use with B7S Series Base Shoes.	10

Minimum order: 1 pack.

CRL Thread Protecting Nylon Allen Screws

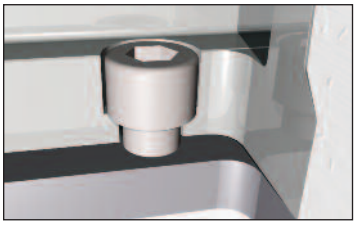


Thread Protecting Nylon Allen Screws are used to protect the threaded holes in steel attachments from concrete contamination, and provide a clearance area behind the attachment. Simply insert the Nylon Allen Screws until the top is flush with the steel attachment. Cover with duct tape to protect the 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" (25.4 mm) Nylon Allen Screws	100

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

CRL Socket Head Cap Screws



• 304 Stainless Steel

CRL Socket Head Cap Screws are used to secure glass railing Base Shoe to approved 1/2" (12.7 mm) steel embedment plates with a minimum 1/2" (12.7 mm) of thread engagement. Cat. No. SHCS12X34 are also for use with CRL Weld Blocks (see above).

CAT. NO.	DESCRIPTION	QTY/PACK
SHCS10X34	10-24 x 3/4" (19 mm) Socket Head Cap Screw	10
SHCS12X34	1/2"-13 x 3/4" (19 mm) Socket Head Cap Screw	10
SHCS12X1	1/2"-13 x 1" (25.4 mm) Socket Head Cap Screw	10
SHCS12X112	1/2"-13 x 1-1/2" (38.1 mm) Socket Head Cap Screw	10
SHCS14X1	1/4"-20 X 1" (25.4 mm) Socket Head Cap Screw	10

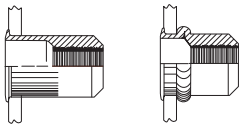
Minimum order: 10 each. Must be ordered in increments of 10.

CRL Attaching Bolt and Riv-Nut

CAT. NO. ZBOLT

CAT. NO. ZRNUT

*See page B287 for hole size requirements.



Inserted Compressed

These CRL Stainless Steel Attaching Bolts and Riv-Nuts are designed to work with CRL Z-Series Glass Clamps. The socket head of the Bolt recesses into the base of the clamp, and the common 5/16-18 thread and 1" (25.4 mm) length will work with both Radius Base and Flat Base Clamps. The stainless steel material provides durability in exterior applications.

CAT. NO.	DESCRIPTION
ZBOLT	5/16" -18 x 1" (25.4 mm) Socket Head Cap Bolt
ZRNUT	5/16" -18 Riv-Nut for use in Thin Wall Tubing (1/8" or less)

Minimum order: 10 each. Must be ordered in increments of 10.

CRL RAILING INSTALLATION FASTENERS

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 3-3/4" (95.2 mm) Long

CAT. NO. EBA335
M12 6-1/8" (156 mm) Long

The Hilti® HSL-3 is a 2003 and 2006 IBC compliant, torque controlled, heavy-duty expansion bolt designed for high performance in static and dynamic load applications.

CAT. NO.	DESCRIPTION
EBA334	Hilti® M8 3-3/4" (95.2 mm) Long HSL-3 Expansion Anchor
EBA335	Hilti® M12 6-1/8" (156 mm) Long HSL-3 Expansion Anchor

Minimum order: 10 each.

CRL Hex Head Screws and Washers

- **304 Grade Stainless Steel**
- **Use With CRL L21S and L25S Laminated Base Shoes**

CAT. NO. HHCS14X34
Hex Head Screw With Washer

CAT. NO. SHCSW14X34
Washers Only

CAT. NO. SHCSM14X34
Hex Head Screw Only

CRL Hex Head Screws and Washers are used to secure CRL's L21S and L25S Series Base Shoes to approved 1/2" (12.7 mm) steel embedment plates with a minimum 1/2" (12.7 mm) of thread engagement. Also works with CRL Weld Blocks.

CAT. NO.	DESCRIPTION
HHCS14X34	M14-2.0 x 20 mm Long Din Rated Hex Head Screw with 28 mm Diameter Washer
SHCSW14X34	28 mm O.D. Stainless Steel Washer
SHCSM14X34	M14-2.0 x 20 mm Long, Din Rated Hex Head Screw

Minimum order: 10 each.

CRL Stainless Steel Flat Head Undercut Phillips Screws

- **Use for Attaching Top Rails or Hand Rails to CRL's P-Series Post Kits**
- **304 Grade Stainless Steel**

Flat Undercut | Phillips | Machine

CAT. NO.	DESCRIPTION	QTY/PK
PRS1032	# 10-32 X 5/8" Flat Head Phillips Screws	50

Minimum order: 50 each.

CRL Z-Clamp Lag Bolt

- **Simplifies Z-Clamp Installation Into Wood**
- **316 Grade Stainless Steel**

This CRL Z-Clamp Lag Bolt is designed to work with CRL's Z-Clamps. The Lag Bolt is made of 316 grade stainless steel material with high corrosion resistance which provides durability in exterior applications. Lag Bolts are designed for wood applications and measure 5/16" x 2" (7.9 x 51 mm). Minimum order is 10 each.

CAT. NO. ZLAG

CRL Stainless Steel Allen Screws

CAT. NO. AS381
AS38 Series 3/8"-16 Thread

- **Available in Lengths From 1" to 2" (25.4 to 51 mm)**
- **All Stainless Steel**

This CRL Stainless Steel Allen Screw is available in incremental lengths from 1" to 2" (25.4 to 51 mm) and has a 3/8"-16 thread.

CAT. NO.	LENGTH
AS381	3/8"-16 x 1" (25 mm)
AS38114	3/8"-16 x 1-1/4" (32 mm)
AS38112	3/8"-16 x 1-1/2" (38 mm)
AS38134	3/8"-16 x 1-3/4" (44 mm)
AS382	3/8"-16 x 2" (51 mm)

Minimum order: 10 each. Sizes can be combined for quantity pricing.

CAT. NO. AS51634
AS516 Series 5/16"-18 Thread

- **Available in Lengths From 3/4" to 3" (19 to 76 mm)**
- **All Stainless Steel**

This CRL Stainless Steel Allen Screw is available in incremental lengths from 3/4" to 3" (19 to 76 mm) and has a 5/16"-18 thread.

CAT. NO.	LENGTH
AS51634	5/16"-18 x 3/4" (19 mm)
AS5161	5/16"-18 x 1" (25 mm)
AS516114	5/16"-18 x 1-1/4" (32 mm)
AS516112	5/16"-18 x 1-1/2" (38 mm)
AS516134	5/16"-18 x 1-3/4" (44 mm)
AS5162	5/16"-18 x 2" (51 mm)
AS5163	5/16"-18 x 3" (76 mm)

Minimum order: 10 each. Sizes can be combined for quantity pricing.

CRL RAILING INSTALLATION FASTENERS

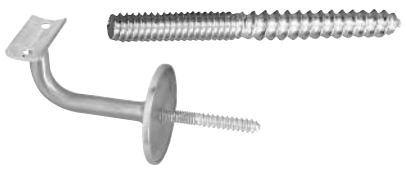
CRL Stainless Steel Concrete Anchors

- For Use With HRS Hand Rail Brackets

CAT. NO.	THREAD SIZE	LENGTH
CA3817	5/16"-18	1-7/8" (47.6 mm)
CA1222	3/8"-16	2-1/4" (57.1 mm)

Minimum order: 1 each. Can be combined for quantity pricing.

CRL Stainless Steel Hanger Bolts

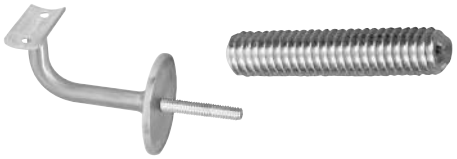


- For Use With HRS Hand Rail Brackets

CAT. NO.	THREAD SIZE	LENGTH
HB516212S	5/16"-18	2-1/2" (63.5 mm)
HB383S	3/8"-16	3" (76.2 mm)

Minimum order: 1 each. Can be combined for quantity pricing.

CRL Stainless Steel Allen Screws

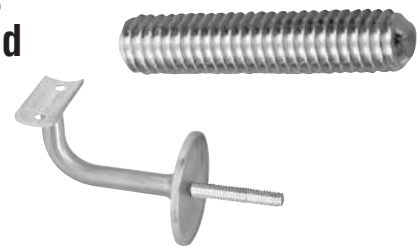


- For Use With HRS Hand and Foot Rail Brackets

CAT. NO.	THREAD SIZE	LENGTH
AS1032316	10-32	3/16" (4.8 mm)
AS142014	1/4"-20	1/4" (6.3 mm)
AS516112	5/16"-18	1-1/2" (38.1 mm)
AS516134	5/16"-18	1-3/4" (44.5 mm)
AS5162	5/16"-18	2" (50.8 mm)
AS5163	5/16"-18	3" (76.2 mm)
AS38112	3/8"-16	1-1/2" (38.1 mm)

Minimum order: 10 each. Must order in increments of 10. Can be combined for quantity pricing.

CRL Stainless Steel Threaded Rods

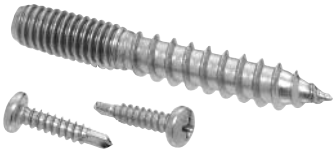


- For Use With HRS Hand Rail Brackets

CAT. NO.	THREAD SIZE	LENGTH
TR51618X36S	5/16"-18	36" (914 mm)
TR3816X36S	3/8"-16	36" (914 mm)

Minimum order: 1 each. Can be combined for quantity pricing.

CRL Replacement Screw Packs for Hand Rail Brackets



RSP1 Pack

Each pack contains: Two each 8-18 x 3/4" (19 mm) Self-Drilling Phillips Pan Head Screws and One each 3/8"-16 x 3" (76.2 mm) Hanger Bolt.

RSP2 Pack

Each pack contains: Two each 8-18 x 3/4" (19 mm) Self-Drilling Phillips Flat Head Screws and One each 3/8"-16 x 1-1/4" (31.8 mm) Allen Screw.

RSP6 Pack

Each pack contains: Two each M6 x 1.0 x 5/8" (15.9 mm) Flat Head Allen Screws

RSP3 Pack

Each pack contains: Two each 8-18 x 3/4" (19 mm) Self-Drilling Phillips Flat Head Screws and One each 5/16" -18 x 2-1/2" (63.5 mm) Hanger Bolt.

RSP5 Pack

Each pack contains: Two each 8-18 x 3/4" (19 mm) Self-Drilling Phillips Flat Head Screws and Three each 12 x 2" (50.8 mm) Phillips Flat Head Screws.

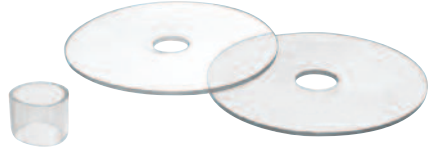
BRUSHED STAINLESS CAT. NO.	POLISHED STAINLESS CAT. NO.	BRASS PLATED CAT. NO.	SATIN ANODIZED CAT. NO.	DARK BRONZE CAT. NO.	MILL ALUMINUM CAT. NO.	FITS CRL HAND RAIL SERIES
RSP1BS	RSP1PS	RSP1PB	RSP1SA	RSP1DU	----------	HR2SW and HR2DW
RSP2BS	RSP2PS	RSP2PB	RSP2SA	RSP2DU	----------	HR2SP
RSP3BS	RSP3PS	RSP3PB	----------	----------	----------	HR15B4, HR20B4, HR15WA, and HR20WA
RSP5BS	RSP5PS	RSP5PB	----------	----------	----------	HR15T, HR20T, HR15B3, and HR20B3
RSP6BS	RSP6PS	----------	----------	----------	RSP6MA	HR2EP and HR2EG

Minimum order: 1 pack.

See pages B314 to B320 for complete selection of Hand Railing Brackets

CRL Replacement Gaskets and Grommet Packs for Hand Rail Brackets

HR15G, HR20G, HR15GA, and HR20GA Series



CAT. NO. RGGP1

Each CRL Replacement Gasket and Grommet Pack includes two each 2-5/16" (58.7 mm) diameter Rubber Gaskets and one each 1/2" (12.7 mm) Plastic Grommet. Minimum order is one pack.

HR2DG Series

CAT. NO. RGGP2

Each CRL Replacement Gasket and Grommet Pack includes two each 2-5/16" (58.7 mm) diameter Rubber Gaskets and one each 11/16" (17.5 mm) Plastic Grommet. Minimum order is one pack.

CRL RAILING INSTALLATION FASTENERS

CRL Flat Head Phillips Screws

- For Use With CRL Hand Rail Brackets and Fittings
- Three Architectural Finishes

Flat

Phillips

Tapping

CAT. NO.	SIZE	FINISH
10X112FHPBS	#10 x 1-1/2" (38.1 mm)	Brushed Stainless
10X112FHPPS	#10 x 1-1/2" (38.1 mm)	Polished Stainless
10X112FHPPB	#10 x 1-1/2" (38.1 mm)	Brass Plated
12X2FHPBS	#12 x 2" (50.8 mm)	Brushed Stainless
12X2FHPPS	#12 x 2" (50.8 mm)	Polished Stainless
12X2FHPPB	#12 x 2" (50.8 mm)	Brass Plated

Minimum order: 100 each. Must order in increments of 100. All bulk screws can be combined for quantity pricing.

CRL 8-18 x 3/4" Self-Drilling Pan Head Phillips Screws

- Five Architectural Finishes

CAT. NO.	FINISH
8X34PHPSDBS	Brushed Stainless
8X34PHPSDPS	Polished Stainless
8X34PHPSDPB	Brass Plated
8X34PHPSDSA	Satin Anodized
8X34PHPSDDU	Dark Bronze

Minimum order: 100 each. Must order in increments of 100. All bulk screws can be combined for quantity pricing.

Pan

Phillips

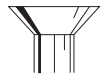
Self-Drilling

CRL 8-18 x 3/4" Self-Drilling Flat Head Phillips Screws

- Cut Their Own Holes in a Variety of Metals

CAT. NO.	FINISH
8X34SFPTS	Stainless Steel

Minimum order: 100 each. Must order in increments of 100. All bulk screws can be combined for quantity pricing.

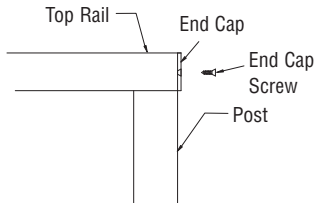

Flat

Phillips

Self-Drilling

CRL End Cap Screws for Aluminum Railings

These Stainless Steel Flat Head Phillips Screws fit into the raceways of our Aluminum Top Rails. Can be used with either Decorative or Wall Mount End Caps in all series of CRL Aluminum Railings.

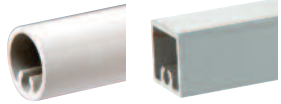


CAT. NO.	SIZE
ECS1	#12 x 3/4" (19 mm)

Minimum order: 50 each. Must order in increments of 50.

CRL Picket Screws

Stainless Steel Pan Head Phillips Screw fits in the screw race of both our Round and Square Aluminum Pickets.


For Both Round or Square Pickets

CAT. NO.	SIZE
PKTS2	#10 x 5/8" (15.9 mm)

Minimum order: 50 each. Must order in increments of 50.

CRL Replacement Screw Packs for Bar Mount Foot Railing Brackets

CRL Replacement Screw Packs for Bar Mount Foot Railing Brackets come in finishes to match the Brackets. Packs include:

- 1 Each 5/16" - 18 x 3" (76.2 mm) Allen Screw
- 1 Each 12 x 2" (50.8 mm) Flat Head Phillips Screw
- 2 Each 12 x 3/4" (19 mm) Flat Head Phillips Screw
- 1 Each 7/8" (22.2 mm) Diameter Flat Washer
- 1 Each Spring Lock Washer
- 1 Each 5/16"-18 Hex Nut

CAT. NO.	FINISH
RSP4BS	Brushed Stainless
RSP4PS	Polished Stainless
RSP4PB	Brass Plated

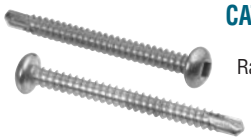
Minimum order: 1 pack.

For Bar Mount Foot Railing Brackets Please Visit **crlaurence.com**.

CRL RAILING INSTALLATION FASTENERS

CRL Self-Tapping Rail Connecting Block and Rail Fastening Screws

- For ARS Series Railings
- Easy to Use Square Drive Screw Heads
- Stainless Steel



CAT. NO. RCBS
#10 x 2"
Rail Connecting Block Screw

CAT. NO. TEK1
#8 x 3/4"
Rail Fastening Screw

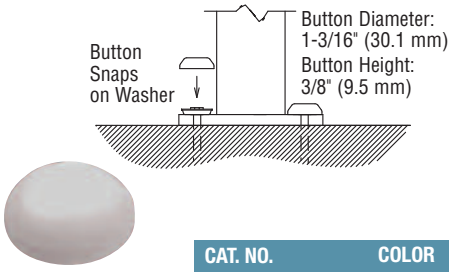
CAT. NO. 9502
Square Insert Bit

CAT. NO.	DESCRIPTION	SIZE
RCBS*	Rail Connecting Block Screw	#10 x 2" (50.8 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: 1 each.

For use with CRL ARS Aluminum Series Rail Systems. Use Cat. No. RCBS Screws for fastening Connecting Blocks. For fastening Aluminum Railings use Cat. No. TEK1 Screws. Both are stainless steel with special crosscuts that allow them to tap their own threads in aluminum. Screws require our Cat. No. 9502 1/8" (3 mm) size Square Insert Bit to install.

CRL Color Match Bolt Cover Buttons

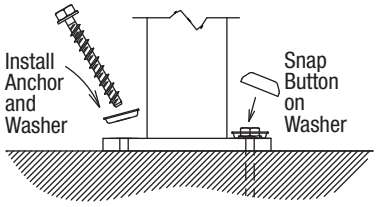


CRL Color Match Bolt Cover Buttons in seven standard colors are designed to cover up exposed Concrete Anchors and Lag Bolts on Vertical Post Base Plates. Cover Buttons easily snap over Cat. No. WSHR1 Stainless Steel Washers to create a finished look. See page B449 for color chart. Minimum order is 50 each. Must be ordered in increments of 50.

CAT. NO.	COLOR
BTN1W	Sky White
BTN10W	Oyster White
BTN1AGY	Agate Gray
BTN1BGY	Beige Gray
BTN1BL	Matte Black
BTN1BRZ	Matte Bronze
BTN1DS	Dark Silver

CRL Stainless Steel Washers

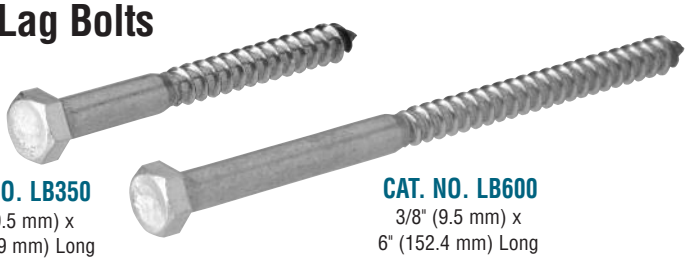
1" (25.4 mm) Diameter



This is a 1" (25.4 mm) diameter Stainless Steel Washer with a 7/16" (11 mm) hole and 1/8" (3.2 mm) thickness. It is designed to accept CRL Color Match Bolt Cover Buttons. Minimum order is 50 each. Must be ordered in increments of 50.

CAT. NO. WSHR1

CRL Lag Bolts



CAT. NO. LB350
3/8" (9.5 mm) x
3-1/2" (89 mm) Long

CAT. NO. LB600
3/8" (9.5 mm) x
6" (152.4 mm) Long

CRL 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. Minimum order is 20 each. Must be ordered in increments of 20.

CRL Stainless Steel Anchors

CAT. NO. CA325
1/4" (6.3 mm) x
3-1/4" (82.5 mm) Long

CRL Stainless Steel Anchors are another option for attaching Vertical Posts to the substrate. Use with Cat. No. WSHR1 Stainless Steel Washers and Cat. No. BTN1 Color Match Bolt Cover Buttons to create a beautiful finished look. Minimum order is 20 each. Must be ordered in increments of 20.

CRL Stainless Steel Z-Clamp Screws

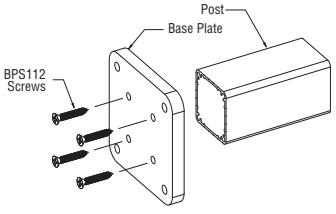
- Replacement Screws for Z-Clamp Face Plate

CRL Z-Clamps Screws are available as replacements for worn out or stripped Z-Clamp face plate screws. Three finishes are available: stainless steel, brass, and chrome. Sold eight per pack.

CAT. NO.	FINISH
ZCS5X15BR	Brass
ZCS5X15CH	Chrome
ZCS5X15SS	Stainless Steel

Minimum order: 1 pack.

CRL Base Plate Screws



CAT. NO. BPS112
#14 x 1-1/2"
(38.1 mm) Long

These CRL Base Plate Screws are Stainless Steel, and designed to secure Square Base Plates into the raceways of Vertical Posts. This Flat Phillips Head Tapping Screw fits flush beneath each Base Plate. Minimum order is 50 each. Must be ordered in increments of 50.

CRL RAILING INSTALLATION FASTENERS

CRL Riv-Nuts Steel Insert Fasteners

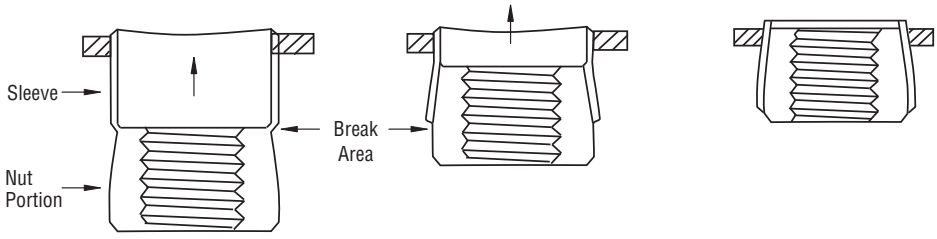
Riv-Nut Steel Insert Fastener installed in Square Tubing

- **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: Aluminum, Magnesium, Steel, Cast Iron, Plastics, Fiberglass, or Hardboard**
- **Reduces Inventory Because One Insert Works in Any Thickness Above .030" (.76 mm)**
- **Vibration Proof**
- **Use to Install Z-Clamps to Posts**

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

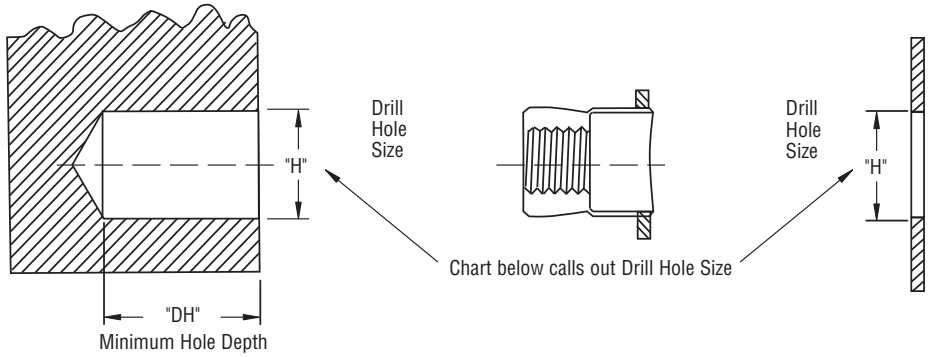
Riv-Nut Steel Insert Fastener Installation



Riv-Nuts Insert Fasteners are a one-piece design consisting of a nut portion and a sleeve portion.

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.



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.

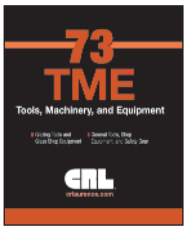
The unique feature of CRL Riv-Nuts Steel Insert Fasteners is the axial knurl under the flange of the insert. The expansion of the sleeve causes the knurl to bite into the parent material, providing greater torque resistance. Use CRL Riv-Nuts Steel Insert Fasteners to improve your product and speed up 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.

CRL Riv-Nuts Master Assortment Kit

• A Complete Kit With Six Sizes of Steel Insert Fasteners, Deluxe Hi-Torquer Hand Tool, and Adapter Heads



See the CRL73 Master Catalog for our complete selection of quality tools

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 plant or in the field.

CAT. NO.	DESCRIPTION
AAT312A	Riv-Nuts Master Assortment Kit

Minimum order: 1 each.

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

CRL Riv-Nuts Deluxe Hi-Torquer Hand Tool

• Can Be Used to Set All Sizes of Riv-Nut Steel Insert Fasteners

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.

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.

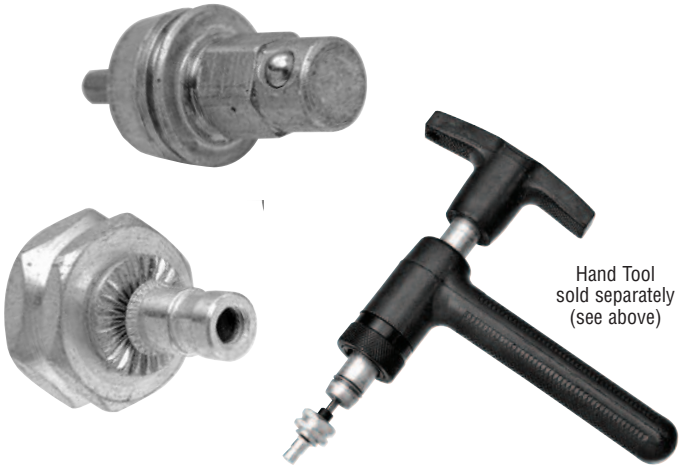
The Tool features a patented Quick Change thread size nose assembly. There is a recess to accept a 1/4" (6.3 mm) socket drive. **NOTE:** Be sure to order an Adapter Kit (see below) for each Insert Fastener size you plan to use.

CAT. NO.	DESCRIPTION
AA112	Riv-Nuts Deluxe Hand Tool

Minimum order: 1 each.

CRL Riv-Nuts Adapters for Hand Tool

• Order One for Each Steel Insert Fastener Size You Use



Hand Tool sold separately (see above)

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.

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

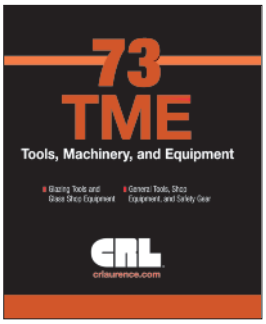
Minimum order: 1 each.

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. And if your aluminum railings suffer a chip or scratch we can remedy those as well with our Lacquer Blend Touch-Up Paints.

Doing a good cleaning job is always easier with the right tools. Our professional strength Lint Free Wipes clean surfaces without streaking, and absorb moisture faster than traditional paper towels. Our plastic scrapers and razor blades can be used on surfaces that might be damaged by conventional metal scraper blades. These, and other fine cleaning products, can be seen in our CRL73 Master Catalog, or in the Online Catalog at **crlaurence.com**.



View or download our CRL73 Master Catalog online at **crlaurence.com**

• Aerosol and Concentrate Glass Cleaners

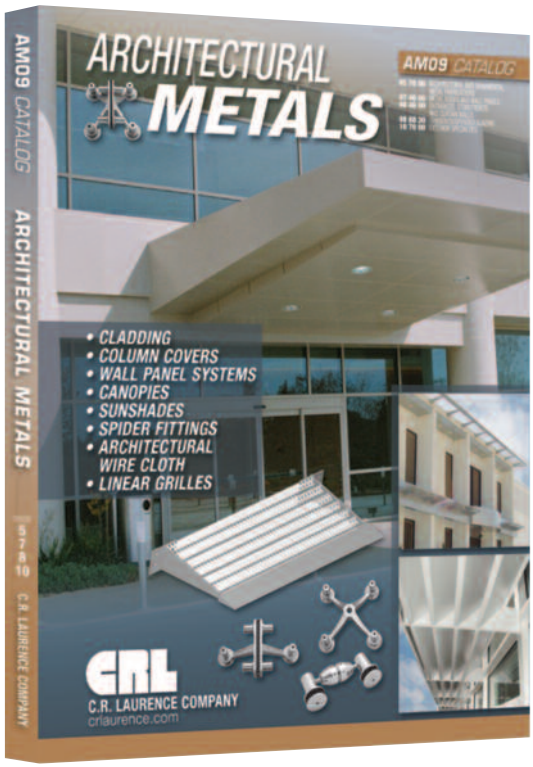
• Water Spot and Stain Removers

• Metal Cleaners, Degreasers, and Polishes

• Paper and Fiber Wipes

• Professional Touch-Up Paints

• Cleaning Tools



CAT. NO. AM09

CRL Architectural and Ornamental Metals Catalog

- Clad Entrances and Storefronts
- Canopies and Sunshades
- Metal Wall Panels
- Column Covers (Cladding)
- Ornamental Hand and Guard Rails
- Brake Shaped Metals

Tajima CORP USA

CRL offers the Architectural Metal products of Tajima Corp USA, now a proud member of the C.R. Laurence family of companies

C.R. Laurence is a manufacturer of Architectural and Ornamental Metal Systems for commercial and institutional buildings. To give you a thorough review of the selection, we offer our AM09 Architectural Metals Catalog.

In this catalog you will find an extensive selection of architectural systems and related hardware for the construction of beautiful, code compliant building façades, including our very popular 'All-Glass' Systems, with our impressive line of stock Spider Fittings. We've expanded our complete line of Glass Awnings, from Tension Rods to Universal Brackets, simplifying your hardware selection process for wall mount, storefront mount, and curtainwall mount applications.

We have also included our newest product lines, CRL Wall Panel Systems, Ceiling Systems, Column Cladding, and Perforated Panel Systems, as well as our rapidly growing line of Sunshades and Canopies. It's a complete directory to our Architectural Metals line.

CRL ARCHITECTURAL METALS

CRL Custom Cladding and Brake Metal

- Custom Brake Shaped Aluminum or Architectural Metals
- Custom Metal Column Covers
- Custom Metal Panel Systems
- Custom Ornamental Metals
- Custom Canopies
- Custom Clad Entrance and Storefront Systems

C.R. Laurence Company fabricates custom metals that are both functionally correct and aesthetically pleasing to the eye. We can be involved in all phases of your project, from initial design to delivery, with every step controlled by processes that meet strict ISO standards. Our 270,000 square foot Los Angeles, California manufacturing facility has a staff of over 300 that incorporates fine craftsmanship and experience in the design, fabrication, and finishing of architectural metals.

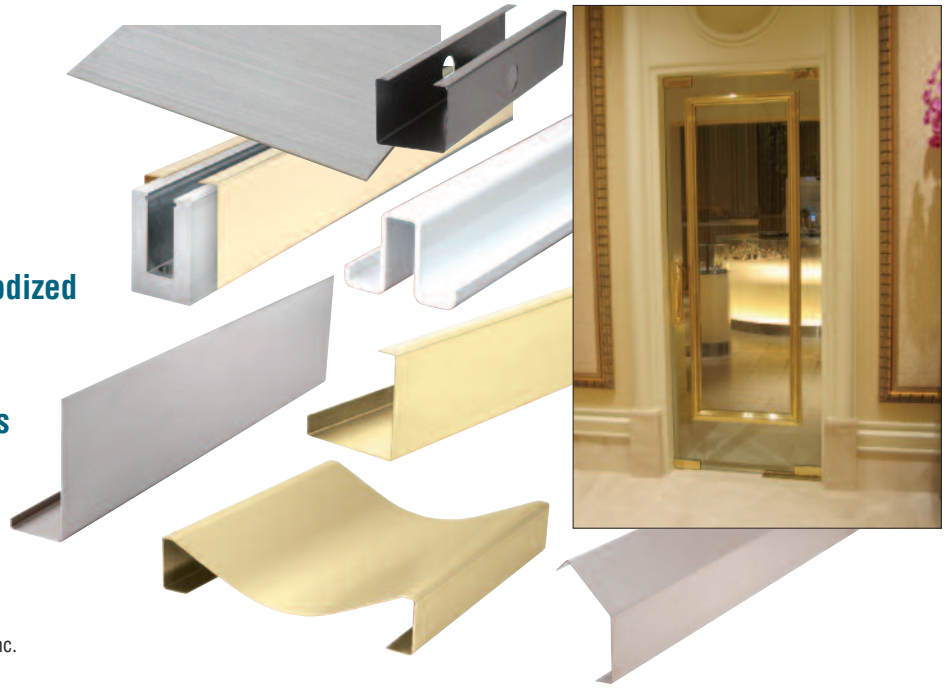
Some of our work is installed in the finest hotels and retail buildings in North America. You can see examples of it in many commercial and entertainment venues. We're able to be involved in so many projects because we have the versatility to supply what you want, and to do so in a cost-efficient and timely manner.

Custom architectural finishes and textures are always an option, so you won't have to be limited to just a few. We specialize in meeting your requirements.

For more information contact CRL Architectural Metals 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 send e-mail from the **crlaurence.com** home page. Click on Contact Us, and then click on Technical Sales for Architectural Metals Products.

Available Finishes

- US-32 #8 Polished Stainless Steel
- US-32D #4 Satin Stainless Steel
- US-3 Polished Brass
- US-4 Satin Brass
- US-9 464 Polished Bronze
- US-10 464 Satin Bronze
- US-10B Oil Rubbed Bronze*
- US-28 Satin Aluminum Clear Anodized
- Dark Bronze Anodized
- Custom Powder Coated Finishes
- Custom KYNAR® Painted Finishes
- Custom Plated Finishes
- Custom Brushed Finishes

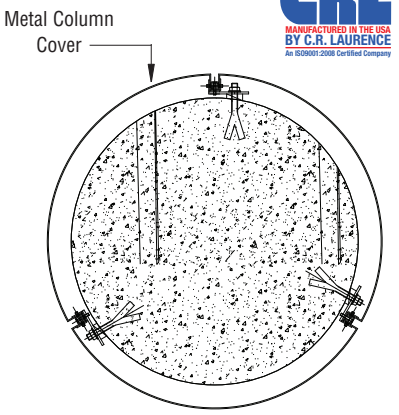


***NOTE:** Finish 613 (US-10B) is unstable and will vary when applied to different alloys or forms of base metal, and to products of different manufacturers.

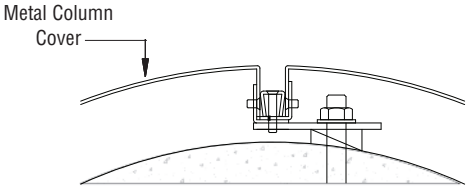
KYNAR® is a registered trademark of Autofina Chemicals, Inc.

CRL's High Standards Produce the Results You Need to Achieve Excellence

CRL Column Covers (Cladding)



Typical Column Cover Cross Section



Typical Connection Detail

- **Versatile Wet or Dry Systems That Include All Bracketing, Angles, Trims, and Clips**
- **Expertly Manufactured to Your Specifications in Our Los Angeles Facility**
- **High Quality Craftsmanship and the Latest Technology Available**
- **Available in Stainless Steel, Aluminum, Bronze, Brass, Aluminum Composite, and Metal Composite**

CRL Panel Systems provide a variety of options for exciting new design expression. Flexible in both available sizes and shapes, our panels are ideal for use as column cover cladding, for incorporation into a curtainwall system, or for ceiling and wall panels. All are custom designed and manufactured at our Los Angeles manufacturing facility using the latest technology and machinery to produce an elegant and efficient panel system to meet your needs.

For additional information on Column Covers 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. 7770. You can also e-mail us through our web site at **crlaurence.com**. From the home page click on Contact Us, and then click on Technical Sales for Architectural Metals Products.

Tajima CORP USA

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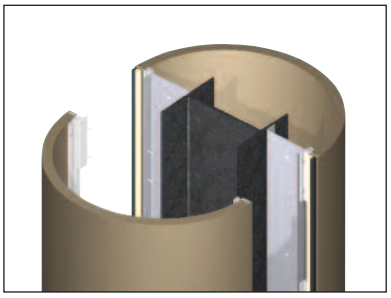
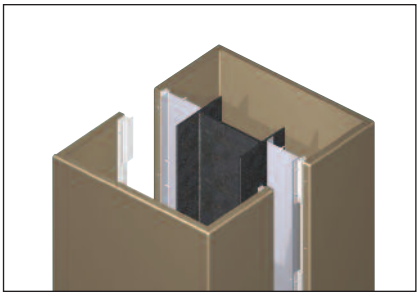
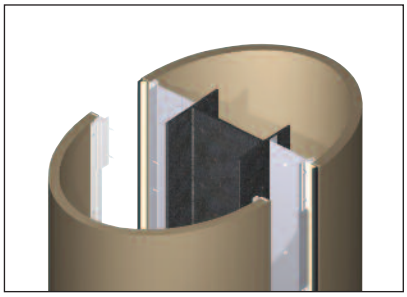
Standard Configurations of Column Covers Can Be Fabricated Up to 156" (3.9 m) in Length



Round



Square



Elliptical

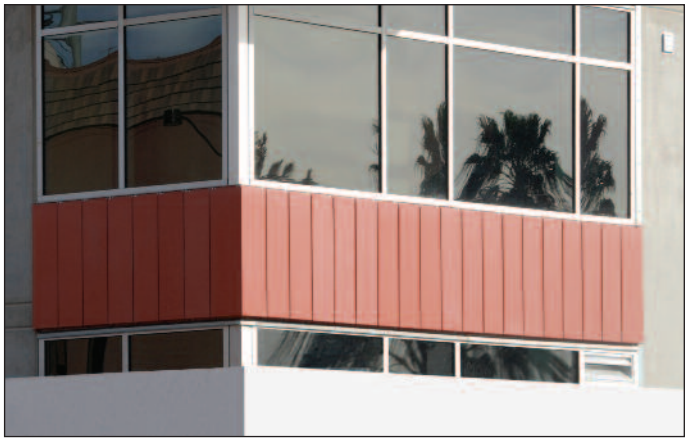
- **Three Attaching Systems: Standard Wet Seal, Deluxe Wet Seal, and Premier Dry Seal**
- **Shop Drawings and Engineering Assistance as Required on the Project – It's Part of Our Complete Package**

CRL Wall Panel Cladding Systems

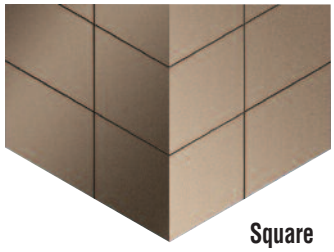
- Incredibly Strong, Lightweight Material
- Requires Less Complex Sub-Structuring
- Colors are Strongest, Brightest, and Longest Lasting on the Market Today
- Can Be Curved and Bent Into Complex Shapes
- Ideal for Exterior Canopies, Entryways, Soffits, Fascia Bands, Building Cladding, Modular Building Exteriors, Column Covers, and Signage

Our Wall Panel Systems offer four easy mounting options to choose from. We fabricate using ALPOLIC® Aluminum and Metal Composite Materials with the highest levels of product performance and reliability. These panels are extremely strong, offering the rigidity of heavy gauge sheet metal in a lightweight material with superior flatness, vibration dampening, durability, and ease of maintenance. Our panels use LUMIFLON® resins, which are the strongest, brightest, and longest lasting of any aluminum composite material paint finishes on the market today.

Office buildings, sports venues, theaters, healthcare facilities, retail chains, restaurants, auto dealerships and more are using Wall Panel Systems on both the exterior and interior to create a distinct image inspired by designers and architects to reach new heights in futuristic designs. Whether you're working on a new building or renovating an existing one, let our knowledgeable Technical Staff assist you with the right Wall Panel System. 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. 7770. You can also e-mail us through our web site at **crlaurence.com**. From the home page click on Contact Us, and then click on Technical Sales for Architectural Metals Products.

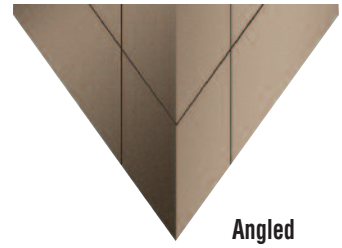


Available to Accommodate Many Configurations



Square

Curved



Angled

CRL Perforated Panel Systems

- **Sun Control Systems Available in Aluminum and Stainless Steel**
- **Different Patterns and Perforation Diameters Can Be Designed to Suit Your Needs**
- **A Cost-Efficient and Attractive Building Addition**

Tajima CORP USA

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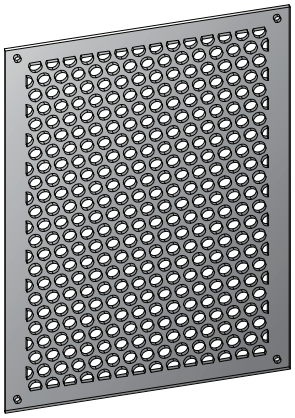
CRL MANUFACTURED IN THE USA BY C.R. LAURENCE
An ISO9001:2008 Certified Company

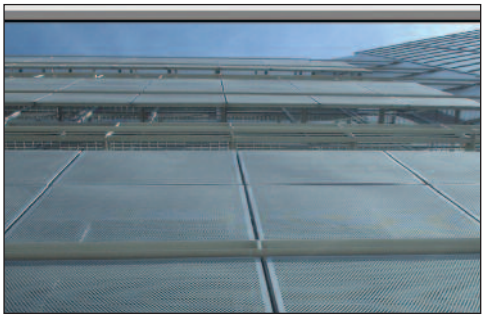


Typical Perforated Panel Detail

CRL Perforated Panel Systems provide a unique look to any modern edifice. Tastefully designed and skillfully manufactured at CRL's own Los Angeles facility, these Perforated Panels add privacy, and can also act as a sunshade to reduce interior heat.

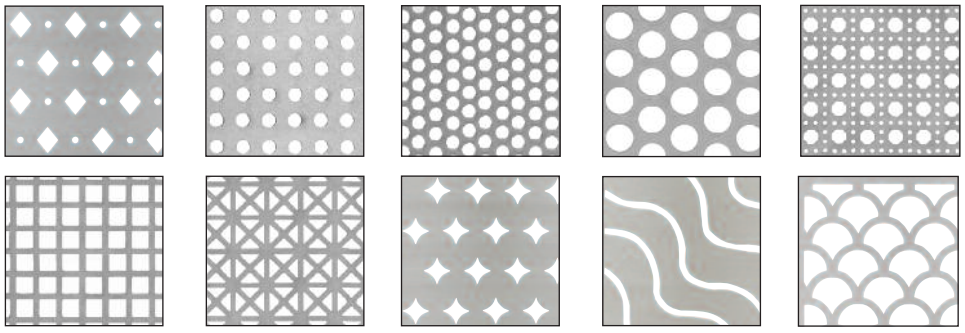
Strategically placed panels can give an older building a newer, more modern look, while at the same time serving to increase the efficiency of cooling systems. They are available in any number of finishes and perforation patterns, and can be retrofit to the building without major structural reconfiguration. CRL engineers will assist with design and installation plans to make your project a cost-efficient and attractive building addition.

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. 7770. You can also e-mail us through our web site at **crlaurence.com**. From the home page click on Contact Us, and then click on Technical Sales for Architectural Metals Products.



Finishes Include

- **Brushed Stainless**
- **Polished Stainless**
- **Non-Directional**
- **Custom Paint**



CRL Perforated Panels are available in a variety of thicknesses in Steel, Galvanized, Stainless Steel, and Aluminum. Panel finishes of mill, powder paint, and KYNAR® cover almost any color selection. Choose from standard stock sheets or we can custom fabricate panels using our CNC Laser and Waterjet Cutters.

KYNAR® is a registered trademark of Autofina Chemicals, Inc.

CRL Architectural Wire Cloth Systems

- **For Decorative Interior or Exterior Designs**
- **Typically Used for Façades, Ceilings, Wall Paneling, and Railing Infills**
- **Provides for Sound Absorption and Sun Protection**
- **Tensioning Systems Available**

CRL's Architectural Wire Cloth can completely transform a building's façade. The trend of using more glass in buildings requires effective protection against the sun and its intense rays. CRL's Wire Cloth can be installed to filter out harmful sun rays, while at the same time creating a façade with character.

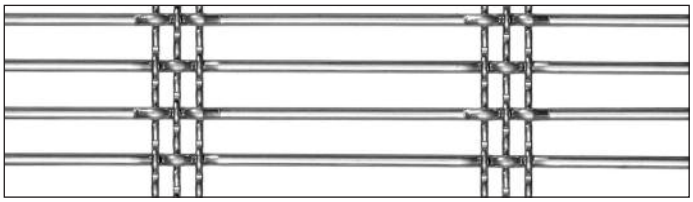
CRL's Wire Cloth elements are generally maintenance-free, so no special cleaning is required. For exterior applications the preferred material is a high quality stainless steel with molybdenum which offers great corrosion resistance. Tensioning systems with edge detail may be incorporated to CRL's Architectural Wire Cloth to ensure that the cloth remains taut.

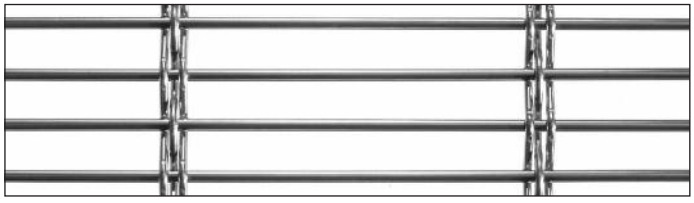
Architectural Wire Cloth is available in several meshes to cover a variety of applications. Differing visual effects are achieved in combination with mesh type and lighting characteristics in the surrounding environment.

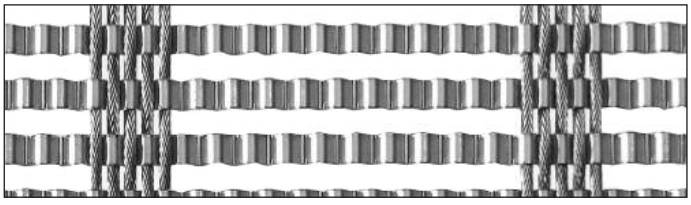
One benefit of using Wire Cloth on the interior of a building is that it is a durable, non-flammable material that meets fire protection codes. Perfect for use as decorative ceiling and wall panels. When used in conjunction with state-of-the-art acoustic fleece Architectural Wire Cloth, it offers excellent sound absorbing qualities. The acoustic material is hidden behind the stainless steel mesh creating a modern and artistic atmosphere.

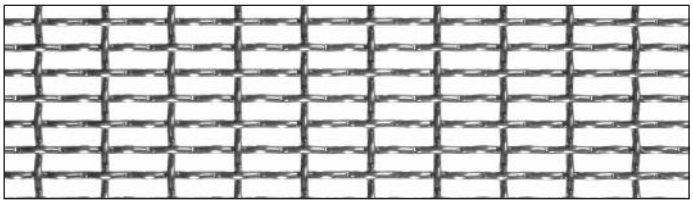
CRL offers assistance with design, structural requirements, and installation details for all Architectural Wire Cloth Systems. For more information please contact CRL's Architectural and Ornamental Metals Division at (800) 421-6144 in the U.S., (877) 421-6144 from Canada, or (323) 588-1281 International. Ask for Ext. 7770. You can also e-mail us through our web site at **crlaurence.com**. From the home page click on Contact Us, and then click on Technical Sales for Architectural Metals Products.

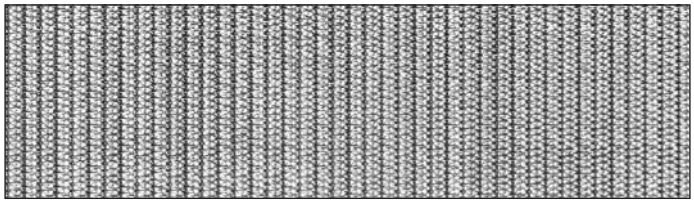
- **Unlimited Design Capabilities Create a Brilliant, Sophisticated Décor**
- **Stainless Steel Material Exhibits Outstanding Weatherability**











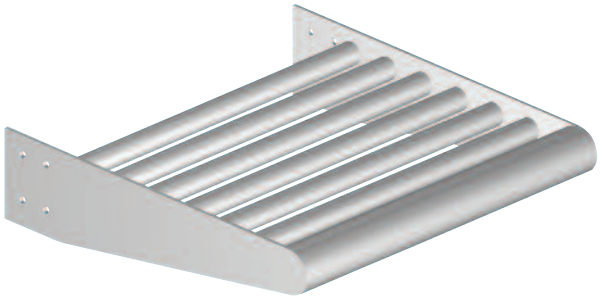
CRL Sunshade and Canopy Systems

- Completely Fabricated Sunshade Systems
- Custom Sunshade Component Parts
- Aluminum and Steel Canopies
- Practical Design for Minimal Field Labor

An element of sophistication and modern design, CRL Sunshades and Canopies can transform an indistinct building into a space of beauty and expression.

Each system is built to specifications in our Los Angeles facility under strict standards that have earned CRL many prestigious awards for manufacturing excellence. CRL engineers will work with you to create an elegant and functional Sunshade or Canopy System that is sure to impress.

For additional information, contact CRL Architectural and Ornamental Metals 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 e-mail us through our web site at **crlaurence.com**. From the home page click on Contact Us, and then click on Technical Sales for Architectural Metals Products.



CRL Custom Entrances

MANUFACTURED IN THE USA BY C.R. LAURENCE
An ISO9001:2008 Certified Company

- **Your Ideas Become Reality With Custom Fabrication by CRL**
- **Engineers Available for Testing, Shop Drawings, and Production Support**
- **State-of-the-Art Manufacturing Offers Short Lead Times**

Tajima CORP USA

CRL offers the Architectural Metal products of Tajima Corp USA, now a proud member of the C.R. Laurence family of companies

It starts with your idea, then CRL turns it into reality. CRL Engineers can make just about any Custom Entrance you might imagine. Just send your specifications or architectural drawings to CRL's Architectural and Ornamental Metals Technical Sales Staff and they will assist you with your Custom Entrance project. Our Technical Sales Staff will address feasibility, safety concerns, and possible alternate solutions in order to prepare a fair and accurate job quote.

CRL's Rapid Customization Program offers the shortest possible lead times in the industry from sketch, to quote, to fabrication, then on 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, packing, and shipping all makes for efficient and speedy delivery of your Custom Entrances.

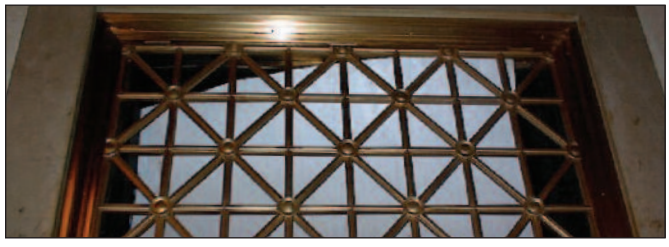
Other Custom Metalwork We Can Offer You

No matter how difficult the project, we can offer a solution that is sure to meet your approval. We are experts in the design and fabrication of custom metalwork. Let us quote your custom metalwork requirements. You'll find CRL to be both competent and competitive.

Decorative Deck Band and Railing Infills

Custom Canopy Panels

Perforated Aluminum Light Covers



Custom Cast Grilles

CAT. NO. AH11

CRL Architectural Hardware 'All-Glass' Entrance Systems Catalog

- Architectural Metals
- Center Locks
- Door and Sidelite Rails
- Door Closers and Hinges
- Glass Clamps
- Headers and Channels
- Ladder Pulls
- Locking Hardware
- Patch Hardware
- Pivot Door Systems
- Push/Pull Handles
- Sliding and Stacking Glass Door Systems
- Spider Fittings
- Standoff Systems

C.R. Laurence offers the largest Selection of Commercial Hardware for 'All-Glass' Entrances in the glass industry. The CRL Architectural Hardware Catalog features a complete offering of products for the installation of beautiful commercial storefronts and entrances.

The AH11 gives you a thorough review of the latest products with unsurpassed quality and techincal expertise. Copies are available for order, viewing or download online at our web site **crlaurence.com**.

CRL Wedge-Lock™ Door Rails and Accessories

- Adjustable Door Alignment System Allows Jamb Line Adjustment Without Removing Door
- Solid Aluminum Rail, Rigid Single Component Housing Will Not Shift and Fall Out of Alignment Over Time Because the Housing is Not Made of Two Halves
- Door Rails Come Completely Fabricated So Door Assembly Can Be Ready for Installation in Less Than 10 Minutes
- Dry Glazing Allows Easy Field Glass Replacement
- Glass Securing Pads Designed for Longevity in Extreme Environments
- Available With or Without a Lock
- Up to Nine Standard Architectural Finishes
- Custom Finishes, Lengths and Heights Available
- Stocked for 3/8", 1/2", and 3/4" (10, 12, and 19 mm) Tempered Glass

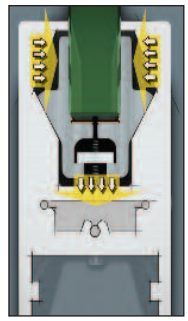
2-5/16" Low Profile | 4" Tapered | 4" Square | 6" Square | 10" Square

Patented Wedge-Lock™ Glass Securing System

The patented Wedge-Lock® Glass Securing System is a totally new concept for securing the glass in the Door Rail. It works by applying pressure from the bottom of the Door Rail, using two glass retaining aluminum extrusions via a flat stainless steel bar. As this bar is pulled down with socket head cap bolts, over 100 pounds per inch of pressure is applied to the glass retaining aluminum extrusions. The bottom of the extrusions are at an angle and fit into an angled groove in the Door Rail. As the glass retaining extrusions are being pulled down, the angled wedge in the Door Rail also pulls the glass retaining extrusions together. This action, along with our specially designed door retaining gasket, creates a tremendous amount of force.

Laboratory Test

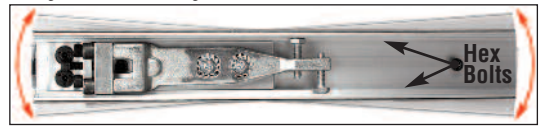
National Technical Systems, a certified laboratory, tested the Wedge-Lock™ Door Rail System at a temperature range from -10°F to 150°F (-23°C to 65.5°C), with 1000 pounds (454 kg) of tension load applied. No evidence of movement was detected at any temperature. At an ambient temperature of 73°F (22.8°C), in a "Pull to Failure Test", 6900 pounds (3130 kg) of tension was required before any creep (not failure) was detected.



- Full Length Door Rails for Single or Double Doors in 2-5/16" Low Profile, 4" Tapered and 4", 6", and 10" Square
- Pull Tested to Nearly 7,000 Pounds (3175 Kg)

Made under the following: U.S. Patents 6,434,905 and 6,912,818 B2.

Foreign Patents Pending



Door centering is easily achieved by turning the two hex head bolts

CRL Sidelite Rails and U-Channels

CRL Sidelite Rails With Top Load Roll-In Gasket

- Five Styles in Up to Eleven Stock Finishes
- Sidelite Rails Match Door Rails for Even Sightline
- Top Load Roll-In Gasket for 3/8", 1/2", 5/8", and 3/4" (10, 12, 16, and 19 mm) Tempered Glass
- Extruded Saddle is Reversible to Match 1/4" or 3/4" (6 or 19 mm) Door Clearances
- Custom Finishes, Lengths, and Heights Available

The profiles of our Sidelite Rails match perfectly with our Door Rails. Available in up to eleven finishes in 120" (3 m) lengths, and two finishes in extra long 240" (6.1 m) lengths, they match heights of both floor mounted and 1/2" (12 mm) threshold doors using our Reversible Saddle.

10" Square | 6" Square | 4" Square | 4" Tapered | 2-5/16" Low Profile

Roll-In Gasket and Setting Block

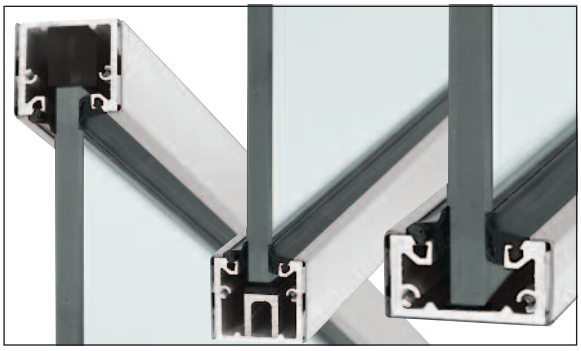
Saddle Illustrated for 1/4" (6 mm) Clearance

Saddle Illustrated for 3/4" (19 mm) Clearance

CRL Combination Wide U-Channel and Narrow Header

- Available in Stock Lengths, Fabricated Headers, or Headers With Side Pockets for "Lift-and-Drop" Panel Glazing
- Matches the Width of Our Door and Sidelite Rails
- Accepts Roll-In Gasket, Top Pivot Block, and Flush Snap-In Insert
- For Use With 3/8", 1/2", 5/8", and 3/4" (10, 12, 16, and 19 mm) Tempered Glass
- Custom Sizes and Finishes Available

Use Only TEMPERED GLASS

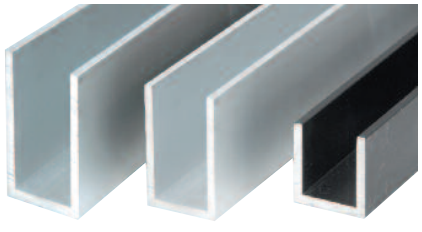


Combination Wide U-Channel and Narrow Header | Regular U-Channel with Aluminum/Neoprene Setting Block | Shallow U-Channel

CRL Regular and Shallow U-Channel With Top Load Roll-In Gasket

- Accepts 3/8" or 1/2" (10 or 12 mm) Tempered Glass
- Both Depths Available in Nine Stock Finishes

CRL Wet/Dry Glaze U-Channel



Wet Glaze U-Channel

- Accepts 3/8" or 1/2" (10 or 12 mm) Tempered Glass
- Offered in Three Heights
- 120" and 240" (3 and 6.1 m) Stock Lengths Available in Six Finishes
- Custom Finishes Available

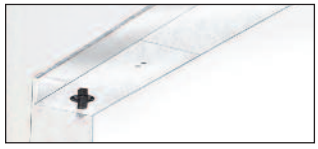
Wet Glaze U-Channel Shown

Our Wet Glaze U-Channel is an economical way to surround 3/8" to 1/2" (10 to 12 mm) thick glass, and is most commonly used in "lift-and-drop" installations where silicone is the preferred method of glazing. Push-in Gasket also available.

CRL Commercial Glass Door Accessories

CRL Stock Size Headers for Overhead Concealed Door Closers

- Six Stock Finishes
- Includes Snap-In Cover Plates
- 4", 4-1/2", and 6" (101.6, 114.3, and 152.4 mm) Widths



Typical Installation Showing Exposed Spindle of Overhead Closer

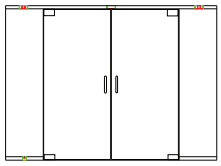
36" (914 mm) Single Door | 72" (1829 mm) Double Door | Custom Lengths

CRL Custom Length Door Headers with Glazing Pocket

- Six Standard Finishes
- Available in 4", 4-1/2", or 6" (101.6, 114.3, or 152.4 mm) Widths for 3/8", 1/2", 5/8", and 3/4" (10, 12, 16, and 19 mm) Tempered Glass

Fixed Panel Section with Glazing Gasket

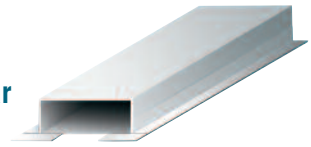
Header Section



Typical Double Glass Doors with Sidelites

CRL Hat Channel Door Closer Header for Single and Double Doors

- Surrounded by "L" Angle to Support Ceiling Tiles
- White Finish to Match Ceiling "T" Bar
- Provides Almost Invisible Look



CRL Hat Channel for Fixed Glazing

- White Finish to Match Ceiling "T" Bar
- Accepts 3/8" or 1/2" (10 or 12 mm) Tempered Glass
- Glass Secured With Silicone Sealant or Roll-in Vinyl

Complete Line of Commercial Door Pulls and Center Lock Housings

- Custom Finishes and Sizes Available
- Beautiful Accessories for Frameless 'All-Glass' Entrance Doors and Sidelites

CRL Standoff Display System

- Can Be Used Indoors or Outdoors and Combined With CRL's Edge Grips or Swivel Fittings to Create Unique Displays
- Infinite Design Options Including Signage, Furniture, and Retail Display

CRL Floating Header for Overhead Concealed Door Closers

- Available for 1/2" (12 mm) Glass-to-Glass or Glass-to-Wall Installations With or Without Overhead Door Closers
- Stock 36" (914 mm) Single and 72" (1829 mm) Double Headers, With Custom Sizes Available
- Available in Six Stock Finishes

CRL Locking Ladder Pulls

- Available in Seven Different Models
- Locks Operate at a Comfortable Height Above the Floor
- Alloy 316 Brushed Stainless Steel Tubing
- Single and Double Locking Options Available

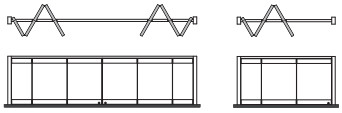
CRL Commercial Glass Door Systems

CRL Heavy Glass Sliding Doors

- Variety of Styles and Finishes Available for Use With 5/16" to 1/2" (8 to 12 mm) Tempered Glass
- Each Unit Custom Built to Fit the Opening
- Saves Valuable Floor Space - Will Not Project Out of the Door Opening

Overhead Track Sliding and Bi-Fold Doors

- Available in Six Architectural Finishes
- Provides a Flush Bottom Surface



Typical Uses: Stadium Luxury Boxes, Conference Rooms, Display Cases, Large Entry Doors

CRL Top Hung Single Track and Double Track Sliding Door System

- Two Complete Hardware Systems for 5/16", 3/8" or 1/2" (8, 10, or 12 mm) Thick Tempered Glass
- EZ-Slide 180 System for 3/8" and 1/2" (10 and 12 mm) Tempered Glass is Rated for Panels Weighing Up to 396 Lbs (180 kg)
- An Easy-to-Install Bypass Door System
- No Notches or Holes Necessary for Installation
- Typical Applications Include Displays, Office Partitions, and Room Dividers

CRL Pivot Door System

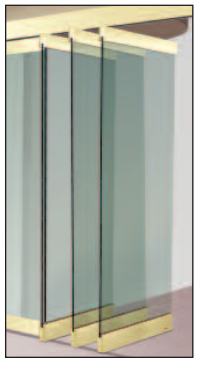
- Mix and Match for Various Configurations
- Maximizes Glass and Minimizes Hardware
- For 3/8" or 1/2" (10 or 12 mm) Tempered Glass

CRL Spider Fittings

- Spiders for Fin or Post Supported Applications
- Made of 316 Alloy Stainless Steel in Two Attractive Finishes: Brushed or Polished Stainless
- For Use With 1/2" to 1-1/16" (12 to 27 mm) Tempered Glass

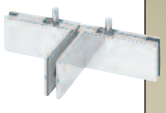
CRL SPS Stacking Partition System

- For Parking, Sliding and Swinging Doors
- Provides a Full Width Opening
- Typical Applications: Storefronts, Stadium Luxury Boxes, Room Dividers, Auto Showroom Entrances
- Available in Five Finishes for 1/2" or 3/4" (12 or 19 mm) Tempered Glass



CRL Patch Hardware System

- Provides Frameless Storefront Appearance for Unobstructed Display of Merchandise
- Allows Combination of Aesthetics and Versatility
- A Complete Selection of Products Including Patch Fittings, Inserts and Pivots, Lever Locks and Latches, Concealed Overhead and Floor Closers, Door Handles, and Many More Accessories



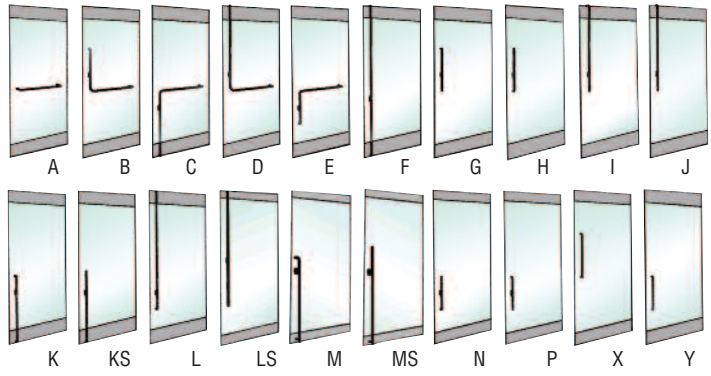
CRL Egress Handles

CRL Panic Handles and Deadbolt Handles

Certification: UL305, ULC/5132 - 93, and ANSI/BHMA A156.3 - 2001 Grade 1
Certification: UL Classified to ANSI/BHMA A156.16 - 1997 Standard

- For 1/2" or 3/4" (12 or 19 mm) Tempered Glass Doors
- Can Be Used as a Replacement for Older Panics
- Available in Polished or Brushed Stainless Steel, Satin and Polished Brass, and Oil Rubbed Bronze
- Optional Keyed Access and Electric Strike
- Available With a Wide Selection of Exterior Fixed Pull Handles on Special Order
- Matching Dummy Handles Available for All Styles

Exterior Handle Combinations for Doors with CRL Panic, Deadbolt or Electronic Egress Control Handles

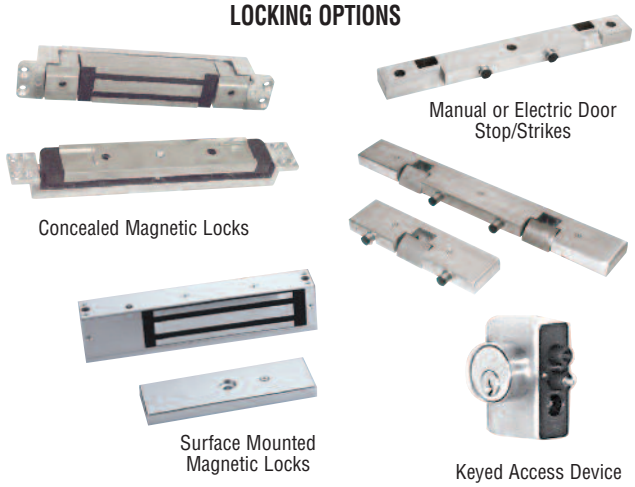


Interior (Operating) Handle Options

CRL Electronic Egress Control Handles

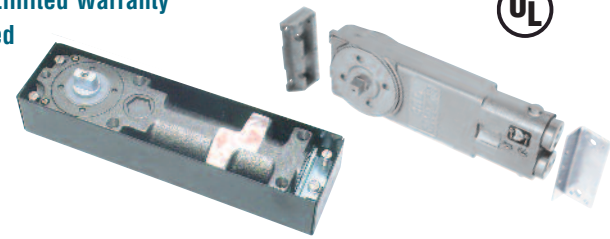
- For 1/2" or 3/4" (12 or 19 mm) Tempered Glass Doors
- For Interior and Exterior Applications
- Maintain Security and Aesthetics
- Available in Polished or Brushed Stainless Steel, Satin and Polished Brass, and Oil Rubbed Bronze

LOCKING OPTIONS



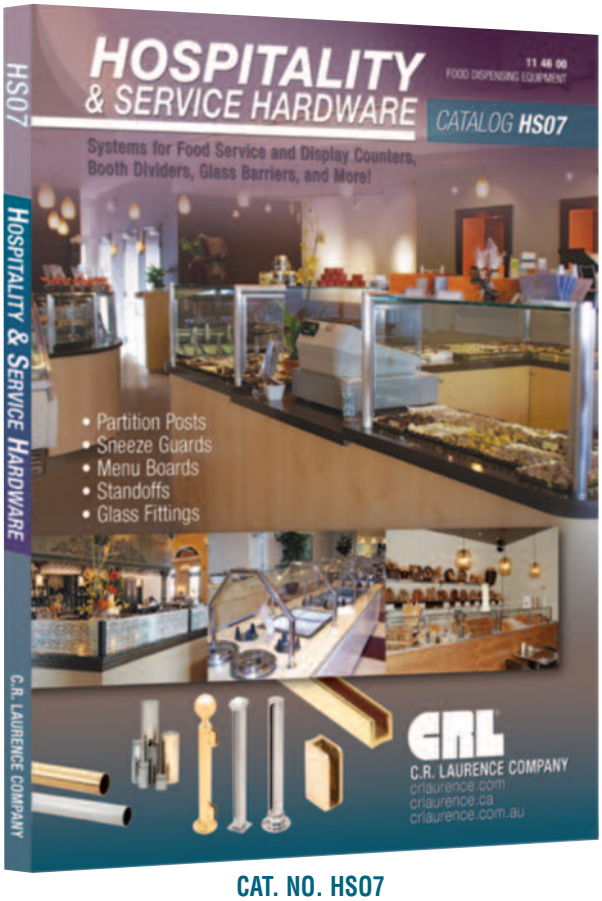
CRL Overhead Concealed and Floor Mounted Door Closers

- A.D.A. 5 Lb. (Interior) and 8.5 Lb. (Exterior) Spring Size Models to Meet A.D.A. Opening Force Requirements
- Available With Adjustable, Light, Medium or Heavy Spring Size
- 90˚ or 105˚ Swing, Hold or No-Hold Open Functions
- Single or Double Action Non-Handed Design
- Interchangeable With Similar Style Closer Bodies
- Wide Variety of Accessories to Suit Most Applications
- 5 Year Limited Warranty
- UL Listed



CRL Surface Mounted Door Closers

- Fixed and Multi-Size Adjustable Models
- Barrier-Free and Delayed Action Models to Meet A.D.A. Barrier-Free Requirements
- Adjustable Backcheck is Standard
- Reversible for Regular, Top-Jamb and Parallel Arm Applications
- 10 Year Limited Warranty
- UL Listed



CAT. NO. HS07

CRL Hospitality and Service Hardware Catalog

- Partition Posts and Booth Dividers
- Food Service Sneeze Guards
- Tray Slide Hardware
- Menu Boards
- Standoffs and Glass Connectors

C.R. Laurence offers a full line of products for use in the Food Service Industry – Self-Service Buffet and Cafeteria Posts, Sneeze Guards, Booth Partition Posts, Tray Slide Shelves, Foot Rails, and Heavy-Duty Area Separation Posts. We also feature Menu Boards, and our full line of Standoff Hardware for use in creating visually appealing platforms for mounting graphic art and menus.

To give you a thorough review of the selection we offer our HS07 Hospitality and Service Hardware Catalog. This full-color publication is a complete reference guide to our extensive product line, with helpful details that will make quoting and ordering these products a simple and efficient process. The HS07 is available for ordering, viewing online, or download at **crlaurence.com**.

CRL HOSPITALITY AND SERVICE HARDWARE

For Pricing Visit Our Web Site or Call Us Toll Free at the Phone Numbers Shown on the Back Cover

CRL Tubular Partition Posts

- Available in Square and Round Profiles
- Many Architectural Finishes Available
- Designer Cap and Base Options
- Several Glass Attachment Choices
- Glass Thickness Choices
- Stock Sizes for Immediate Shipment
- Custom Sizes in 3 to 10 Working Days

You can specify CRL Tubular Partition Posts in a large variety of diameters, post styles, glass thicknesses, and attachment type options. Best of all, your choice of finishes is almost unlimited. Custom fabricated or in component parts you assemble yourself, we have just what you need for any Partition Post job.

CRL Sneeze Guards

- Available in 1-1/2" (38.1 mm) and 2" (50.8 mm) Diameters
- Polished Brass, Polished or Brushed Stainless Steel, and Powder Coat Paint Finishes
- Different Base Options
- Glass Attachment Choices
- Glass Thickness Choices
- Stock Sizes for Immediate Shipment
- Custom Sizes in 7 to 10 Working Days

Our Sneeze Guards for food service counters and tables are offered in over 200 different designs. They go from the simple angled front configuration to wall mount, ceiling mount or free standing configurations. All are made up from component parts or welded assemblies in a variety of finishes. They can be manufactured to conform to National Standards or to the customer's specifications.

CRL is Your Source for Hospitality Hardware

- Booth Dividers and Heavy Glass Partitions
- Tray Slide Hardware
- Service and Foot Rails for Bars
- Menu and Display Boards
- Standoffs and Glass Connectors

We can outfit food service areas with attractive hardware that will add to the comfort and safety of the business. Contact CRL Hospitality Technical Sales with your "want list" and we will aid in the design and ordering process.

CRL Technical Assistance

- Engineering and Technical Support
- Auto Cad and Shop Drawings
- Installation Advice

Let CRL's Hospitality Technical Sales Team help you with your 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.

CAT. NO. TH10

CRL Transaction and Security Hardware Catalog

- Service Windows
- Ticket and Cashier Windows
- Mail Slots and Package Receivers
- Deal Trays and Shelves
- Speak-Thru Devices
- Electronic Communicators
- Transaction Drawers
- Bullet Resistant Windows
- Safety and Security Mirrors

The CRL Transaction and Security Hardware Catalog features a complete selection of products for the secure transfer of cash and merchandise, as well as an array of builders hardware lines for entryways and exits.

The TH10 gives you a comprehensive view of our Deluxe and Standard Service Windows, Ticket and Cashier Windows, Drive-Thru Serving Windows, Pass-Thru Track Hardware, Bullet Resistant Windows and Barrier Systems, Speak-Thru Devices and Electronic Communicators, Mails Slots and Package Receivers, Commercial Door Handles, Security Locking Hardware, Access Control Devices, Safety and Security Mirrors, and Bulletin Board Cases.

We also offer an overview of our Architectural Hardware lines, with many installation images that you can show your customers to inspire design ideas.

CRL TRANSACTION AND SECURITY HARDWARE

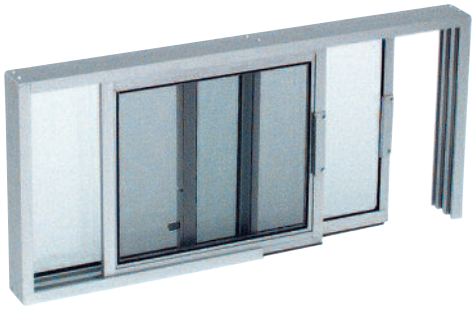
CRL Service Windows

- Manual, Semi-Automatic, and Fully Automatic in a Variety of Configurations and Finishes
- Each Unit Custom Fabricated to Meet Your Needs
- Shelf, Lock, and Glazing Options

Manual Deluxe Sliding Windows

Self-Closing Deluxe Sliding Service Window

All Electric Fully Automatic Deluxe Sliding Service Window



Horizontal Sliding Service Windows

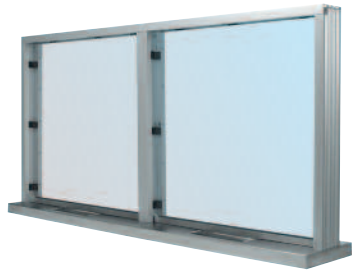
Vertical Sliding Service Windows

Projected and Flush Mount Manual and Semi-Automatic Bi-Fold Windows

CRL Bullet Resistant Windows and Doors

- Stock and Custom Fabricated Units for Interior or Exterior Installation
- Aluminum, Steel, and Stainless Steel Frames
- Level 1, 2, or 3 Protection Options

Aluminum Inset Frame Bullet Resistant Windows



Multi-Lite Stainless Steel Bullet Resistant Windows

Steel Frame Bullet Resistant Door With Bullet Resistant Vision Lite

Bullet Resistant Sliding Windows

Stainless Steel Frame Night Service Windows

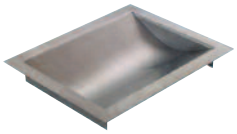
Combination Bullet Resistant Exchange Windows

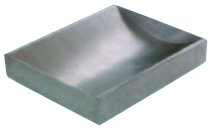
CRL TRANSACTION AND SECURITY HARDWARE

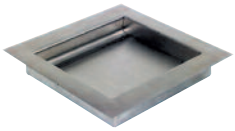
For Pricing Visit Our Web Site or Call Us Toll Free at the Phone Numbers Shown on the Back Cover

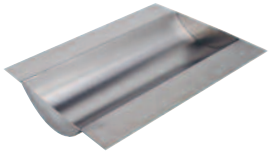
CRL Deal Trays, Transaction Drawers, and Package Receivers

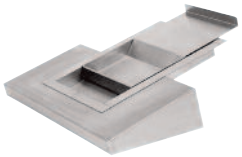
- **The Largest Selection of Quality Made Transaction Devices**
- **Only CRL Gives You This Many Choices**

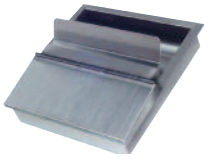

Drop In Deal Tray


Counter Top Deal Tray

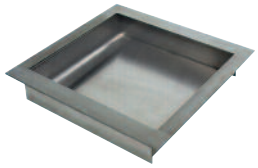

Bullet Resistant Deal Tray

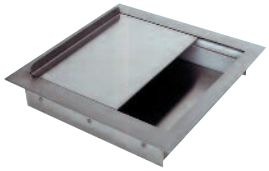

Deluxe Drop In Deal Tray

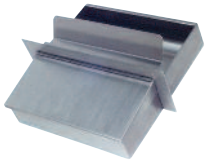

Sliding Deal Tray With Shelf


Recessed Deal Tray With Lid

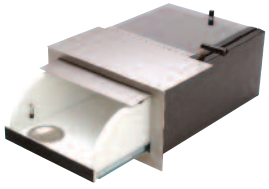
Stainless Shelf With Deal Tray

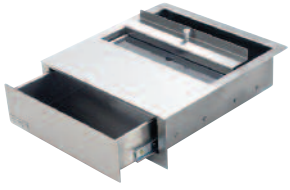

Deep Deal Tray

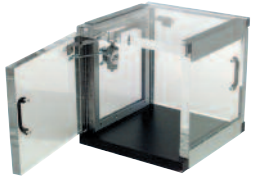

Deep Deal Tray With Lid


Counter Top Deal Tray With Lid

Stainless Shelf


Large Transaction Drawer

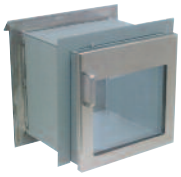

Deal Drawer


Clear Package Receiver

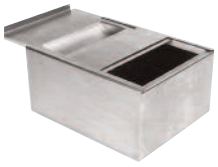
Stainless Purse Shelf

Transaction and Cash Box Drawer

Deep Transaction Drawer


Package Receiver

Rotating Drum Window


Sliding Deal Tray and Pass-Thru Bin

Pass-Thru Hopper

Rotary Server

CRL Security Solutions for Commercial and Institutional Facilities

- **We Bring You the Largest Selection in the Industry**
- **Off the Shelf Stock Sizes or Custom Fabricated to Your Requirements**

Bullet Resistant Barrier Systems

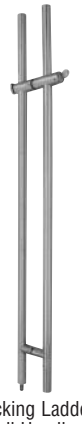
Glass Convex Security Mirrors

Plexiglas Security Mirrors

Center Locks

Lever Locksets

Deadbolt Handles


Locking Ladder Pull Handles

CRL TRANSACTION AND SECURITY HARDWARE

CRL Electronic Communicators and Speak-Thru Devices

- **Electronic Thru-Glass and Counter Top Communicators**
- **Bullet Resistant Clear-Vision and Stainless Steel Speak-Thrus**
- **No-Draft and Covered Speak-Thrus**

CRL makes available a complete range of window and counter-mounted communication devices for standard and bullet resistant service windows. Our Electronic Communicators are of the kind that you'll find at theater and stadium box offices, pharmacies, and service stations. They are easy to install, and provide clear voice and sound transmission. We also offer bullet resistant Speak-Thrus with Level 2 or Level 3 protection against projectiles while being completely self-contained and maintenance free. And we carry traditional No-Draft Speak-Thrus for installations where bullet resistant glazing is not required. The complete range is supported by CRL Transaction Technical Sales, who can offer you selection and installation assistance for all of your speak-thru needs.

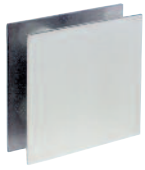
Electronic Communicators

Thru-Glass Communicators

Counter Top Communicators

Bullet Resistant Speak-Thrus

Round Bullet Resistant Speak-Thru



Square Bullet Resistant Speak-Thru

Clear Vision Bullet Resistant Speak-Thru

No-Draft Speak-Thrus

Stainless Steel Speak-Thru

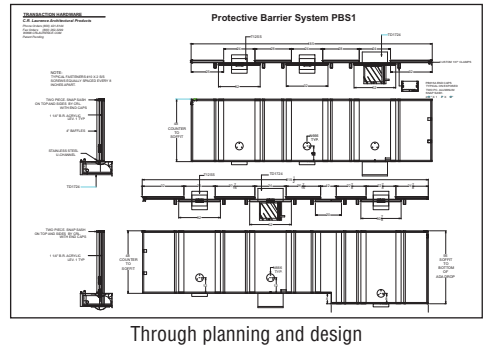
Aluminum Speak-Thru

For Expert Technical Assistance With Your Transaction Projects, Ask for Extension 7760

The CRL Transaction Technical Sales Department is a full time staff trained in the proper design and installation of our Transaction Hardware 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.

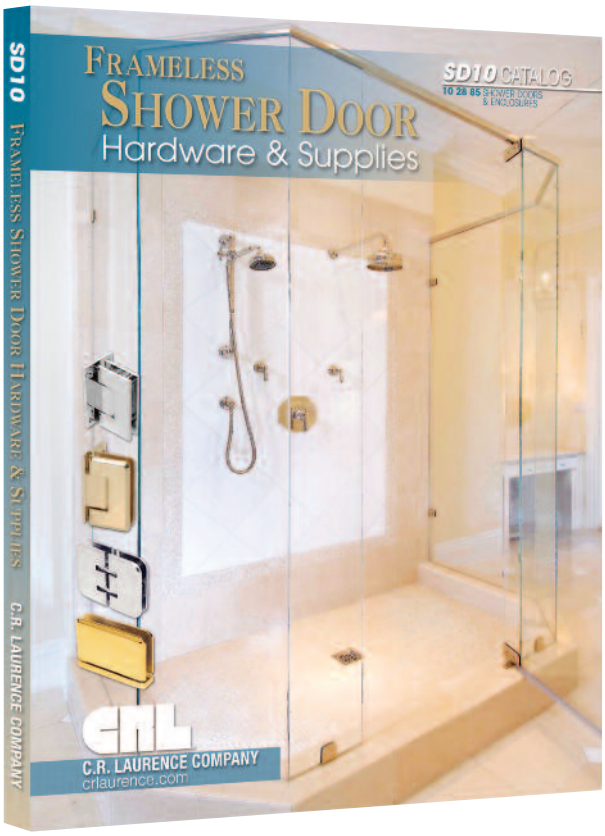
If our wide variety of standard size products won't fit your needs exactly, CRL can custom build to your specifications. Our manufacturing facility has a staff of engineers who will design a product that you can install with full confidence that it will meet your customer's needs in terms of performance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

From initial discussion



Through planning and design

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 7760**
Direct Fax **(800) 458-7496**
Direct e-mail **transaction@crlaurence.com**



CAT. NO. SD10

CRL Frameless Shower Door Hardware & Supplies Catalog

- Beautiful Architectural Finishes
- Unequaled Selection
- Huge Inventories
- Innovative Solutions
- Online Services

Showers online by CRL

C.R. Laurence offers the largest variety of Frameless Shower Door Hardware in the glass industry. Our initial offering of the basic Wall Mount Hinge in just two finishes has evolved over the years to over 25 series of Shower Door Hinges in various configurations and beautiful finishes, plus Door Pulls and Knobs, Towel Bars, Glass Clamps, Headers, U-Channels, Thresholds, Frameless Door Kits, Wipes and Seals, Sliding Shower Door Kits, Bathroom Mirrors, and Decorator Accessories.

Reacting to the "wish list" of designers and installers has brought about many of the new products that are now part of our extensive selection. Unsurpassed quality combined with technical expertise, full inventories, and the willingness to listen has contributed to create our complete package of quality hardware backed by excellent service.

You can see all of this in our Frameless Shower Door Hardware & Supplies Catalog. Copies are available for order, viewing or download online at our web site, **crlaurence.com**.

Residential Upgrades

Bringing High Scale Quality to Designer Bathrooms

Commercial Projects

The Choice of Many of the Finest Hotels, Resorts, and Condominium Complexes Around the World

CRL FRAMELESS SHOWER DOOR HARDWARE

For Pricing Visit Our Web Site or Call Us Toll Free at the Phone Numbers Shown on the Back Cover

CRL Frameless Shower Door Hinges

- **Wall Mount, Glass-To-Glass, Top and Bottom Pivot, Adjustable, and More**
- **Over 25 Styles With Various Shapes and Designs to Accentuate Virtually Any Installation**
- **Sizes to Fit Glass From 1/4" to 1/2" (6 to 12 mm) Thick**
- **Over 20 Beautiful Stock Finishes in Many Models, With Custom Finishes Available for Those Special Jobs**

With so many styles to choose from we're sure you will find the right CRL Hinge to suit the design plans of just about any decorator. CRL Hinges are known for their quality and their functionality, and our variety is larger than ever before.

Whether you're doing a simple single panel swinging door, or a large multi-lite enclosure, there's sure to be a CRL Hinge that will be just right for the project.

The best way to see them all is in our SD10 Frameless Shower Door Hardware & Supplies Catalog, or through the Online Catalog at **crlaurence.com**. All of the styles and finishes, as well as helpful technical data, can be found when you use these valuable resources.

Use Only TEMPERED GLASS

GENEVA

PINNACLE

VIENNA

COLOGNE

ROMAN

ULTIMATE

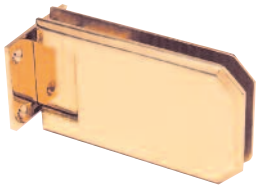
PRIMA

CARDIFF

ESTATE

CONCORD

CATHEDRAL


ELITE

RONDO

SHELL

BILOBA

ATLAS

MADRID

ZURICH

CLASSIQUE

GRANDE

ARCTIC

REGAL

SYDNEY

BERLIN

TRIANON

MILANO

PETITE

MONACO

CRL FRAMELESS SHOWER DOOR HARDWARE

For Pricing Visit Our Web Site or Call Us Toll Free at the Phone Numbers Shown on the Back Cover

CRL Frameless Shower Door Pull Handles and Knobs

- **Numerous Styles, Designs, and Sizes in Finishes to Complement and Accent Surrounding Hardware**
- **Thru-Glass and UV Glue-On Models**

Use Only TEMPERED GLASS

Every shower door needs a handle or knob to assist with the opening and closing, and our selection is second to none. These Pull Handles and Knobs benefit from the same quality control that goes into our Hinges, and the selection of beautiful finishes is unmatched. Custom designs and finishes are also available when you need something special.

SDK100

SDK118

SDK106

SDK075

SDK140

19MK

SDK400CR

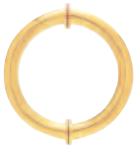
BM6X6

BMNW8X8

V1C6X6

CSH8X8

MT6X6


SDPC575

SSDP6

CRL Towel Bars and Grab Bars

- **Stock Sizes Range From 12" to 30" (305 to 762 mm)**
- **Single-Sided and Back-To-Back Models**

Our Towel Bars and Grab Bars offer practicality without sacrificing style. They come in beautiful finishes to match our Hinges and Pull Handles. Custom sizes and finishes are available as well to suit your requirements.

BM24X24

BMNW18X18

C0L6X24

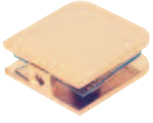
CSH24X24

GB135

CRL Glass Clamps

- **Wall Mount, Glass-To-Glass, and Glass Transom Models in Finishes and Styles to Complement Our Hinge and Handle Hardware**

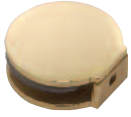
A popular method of securing glass panels in enclosures while minimizing the appearance of hardware is through the use of Glass Clamps. We offer the largest variety of brass constructed, beautifully finished clamps to accommodate glass from 1/4" to 1/2" (6 to 12 mm) thick.


UC77

EST111

GCB184

BGC188


RC79

ADJ180

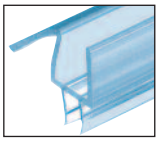
NDC4

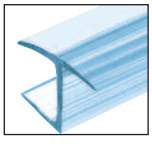
P1090

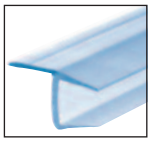
CRL Polycarbonates, Vinyl Seals, and Edge Wipes

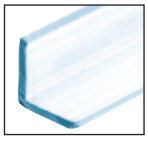
- **Minimize Water Escape Without Detracting From the 'All-Glass' Appearance**
- **Simple Snap-On or Tape-On Installation**

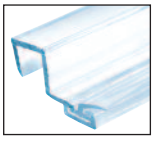
CRL Polycarbonates, Vinyl Seals, and Edge Wipes help to minimize the escape of water from an enclosure. Their clear composition keeps them from detracting from the 'all-glass' appearance. Simple snap-on and tape-on installation takes only seconds, yet the protection they offer to your customer's flooring will be long lasting.

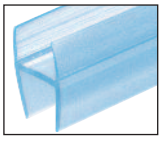

P990WS

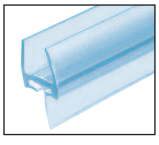

P380HJ

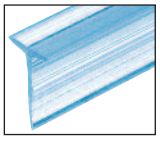

PCC10

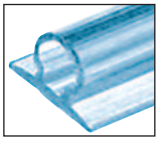

P12LJ


P090SJ


P375HW


P500BR


SDTW


SDTB

Craftsmanship and Aesthetics Result In Quality Installations

- "Hands-On" Quality Control
- Inspection and Testing
- Quality Materials in Beautiful Finishes

Our quality control process is based on a "hands-on" approach to assembly, inspection, and testing. This assures you of a finished product that will remain beautiful, and function properly, for years to come.

Quality materials are an important part of the difference. We use solid brass or stainless steel so durability is never in question. Unlike lesser grade hardware made of cast and plated metals, our Hinges, Pulls, Knobs, Towel Bars, and Glass Clamps run little risk of degradation or discoloration found in inferior brands.

We are proud of our products, and back them in full confidence that you will enjoy them for a long time. The combination of craftsmanship and aesthetics is unsurpassed, and will enhance the design and performance of frameless shower enclosures.

Hardware Finishes • Beauty and Variety

All CRL Frameless Shower Door Hardware has consistent finishes that reflect the "hands-on" manufacturing processes used in its production. It will instantly add a look of quality to the appearance of your enclosure and, with proper care and cleaning, will remain beautiful for years to come. CRL Frameless Shower Door Hardware is available in a variety of beautiful finishes to enhance the décor of the surrounding environs.

There are bright mirror-like finishes that sparkle, antique and high-tech finishes, brushed finishes for 'soft' décors, and painted finishes for enclosures that go beyond the conventional. And if we don't have a stock finish that is to your liking we can produce virtually any finish that is compatible to the brass, stainless steel, or aluminum constructed hardware.

Technical and Design Assistance

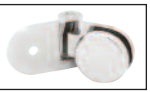
Modern shower and bath enclosures start with an idea, or vision, of an elegant and functional bathing environment that will add beauty and value to a home. Transforming the idea to reality requires not only quality hardware, but also a design or plans to integrate the new enclosure into the existing surroundings.

We offer help in two critical areas of shower enclosure construction. First, the design must be evaluated. Will it fit the existing area, or will extensive modifications be required? We can review your plan design to evaluate its suitability for the intended installation. Second, the hardware must be compatible with the intended glazing and layout. Recommendations as to which hinges and accessories will be compatible to a functional design will be offered. We will help you choose the hardware that brings out the very best in your design plans. All of this is part of our effort to bring you not only the best products, but also top-level service to match.

CRL FRAMELESS SHOWER DOOR HARDWARE

CRL Hydroslide Sliding Shower Door Kits

Ask about our New Hydroslide Bi-Fold Hinges



- **An Excellent Design for Compact Areas**
- **Clean, Sleek Lines in Four Finishes**
- **For 5/16" to 3/8" (8 to 10 mm) Glass**

Hydroslide Sliding Shower Door Kits feature the latest European 'all-glass' look, and are designed for full standing showers or above bathtubs. The Hydroslide System can accommodate a wide range of shower designs with fixed glass panels on either end, or both sides at 90 or 180 degrees. The Hydroslide System also accommodates the option of floor-to-near-ceiling glass panels with a sliding door.

Kits are available in either 60" (1.52 m) or 84" (2.13 m) widths. Installers can cut the width to size, and height is optional as long as the sliding glass door weighs less than 88 pounds (40 kg). The 180 Degree Wall-to-Wall Installation only requires the 180 Degree Standard Kit for installation. 90 Degree units require the addition of our 90 Degree Accessory Kit. Finishes, specifications, and component information can be seen in our SD10 Frameless Shower Door Catalog.

180 Degree Wall-To-Wall Installation

90 Degree Wall-To-Glass Installation

CRL Cottage Series Frameless Sliding Shower Door Kits

- **Four Finishes in Up to Six Stock Sizes for 1/4" to 3/8" (6 to 10 mm) Glass**
- **Clear Polycarbonate or Metal Side Jambs**
- **Kits Come With Knob, Towel Bar, and All Hardware**

Use Only GT™ TEMPERED GLASS

CK Series With Clear Side Jambs

DK Series With Metal Side Jambs

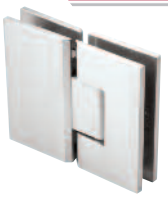
Cottage Series Sliding Shower Door Kits use Bolt-Through Top Hangers to allow immediate fabrication and installation, with no waiting for messy adhesive to dry. Kits come in Brite Anodized, Brite Gold Anodized, Brushed Nickel, and Oil Rubbed Bronze finishes, with other finishes available on special order. The top hung stock units include: Header, Top Hangers for 1/4" (6 mm) or 3/8" (10 mm) glass, Side Jambs, Bottom Sill, Back-to-Back Knob, 24" (610 mm) Towel Bar, Nylon Rollers, and Bottom Guide. Since all rollers are overhead, the bottom sill and side jambs are uncluttered, making cleaning easy. Kits are available in up to six stock sizes. Extrusions, Bottom Guides, Hardware Packages, and other accessories may be ordered separately as well. Full details are in the SD10 Catalog.

CRL Frameless 'All-Glass' Restroom Partition System

- **Stainless Steel Posts Mounted Behind Glass to Maximize Frameless Appearance**
- **For 1/2" (12 mm) Thick Glass Only**

The new Frameless 'All-Glass' Restroom Partition System will modernize any commercial bathroom area with your choice of multiple architectural finishes. Since metal posts do not "interrupt" the glass panels, a beautiful frameless environment is attained. No field fabrication is required, ensuring easy installation. Vienna or Cologne Series Hinges are utilized for this system that is designed for use with 1/2" (12 mm) thick tempered glass (not included). Please contact our Frameless Shower Door Department or send us a drawing. We will generate a price quote and provide any further details required.

new



Vienna Series Hinge

Cologne Series Hinge

CRL EZ-Adjust Shower Door Header Kit

new

- **Allows Side-to-Side Adjustment of Hinge After Installation**

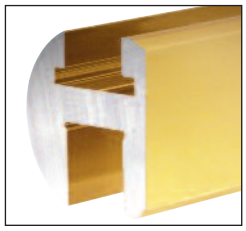
The New EZ-Adjust Shower Door Header gives you the ability to move the Hinge left and right as required after installation for a perfect fit. Kits are stocked in up to eight popular finishes. A choice of 98" and 144" (2.49 and 3.66 m) stock lengths allow the user to cut as desired. A Snap-in Filler Insert for the door pocket, Wall Mounting Brackets, and Clear Glazing Vinyl round out the Kit. Get full details on page S700 of the SD10 Catalog.

Works with PPH06 EZ-Adjust Prima Hinge (Not Included)

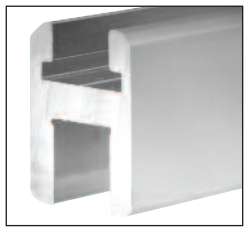
CRL Deluxe Shower Door Header Kits

- **For 5/16", 3/8", and 1/2" (8, 10, and 12 mm) Glass**
- **Available in Up to Seventeen Beautiful Finishes**

The Deluxe Header Kit will provide additional support and a level of safety while securing glass panels not reaching the ceiling. Both brass and aluminum type Wall Brackets are included in each Kit to give installers a choice. The Header Extrusion has a narrow 1-1/4" (32 mm) face to minimize the visible sight line. The Flat/Round Header can be reversed to expose either face. Header is constructed of 6063-T5 Aluminum Alloy. See full details and a list of finishes in the SD10 Catalog.



SDH Series
Flat/Round Profile



SQH Series
Flat/Flat Profile

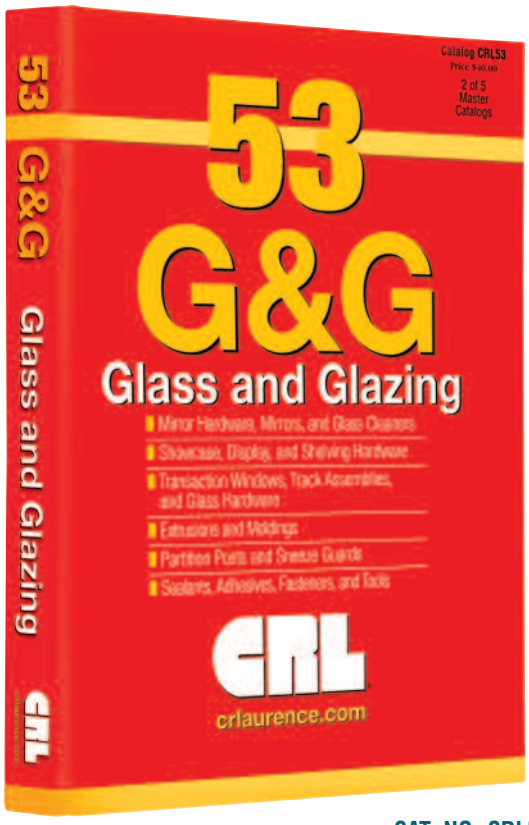
Standard Kits come in lengths of 66" (1.67 m), 98" (2.49 m) or 144" (3.66 m) with accessories.

CRL Shower Door Flyers

CAT. NO. FF4SD

- **Full Color Flyers Can Be Used to Advertise That You Are in the Frameless Shower Door Business**
- **Perfect for Mailings or to Hand Out at Trade Shows**
- **Blank Space on Rear Cover for Your Company Information**
- **Comes With Clear Counter Top Display and 50 Full Color Flyers**

A great way to show potential customers the beauty of a frameless shower for their home is with this full color flyer. Full of design ideas and photos of finished installations, it's sure to catch their attention. There's even a space on the back for you to insert your company's name, phone number, etc. 50 Flyers come in a clear counter top display.



CAT. NO. CRL53

CRL Glass and Glazing Hardware

Everything for the Successful Glass Shop

- Mirrors and Mirror Hardware
- Showcases, Displays, and Shelving
- Sliding Track Assemblies
- Transaction Hardware
- Extrusions and Moldings
- Glazing Sealants and Adhesives
- Tapes and Fasteners
- Tools and Safety Gear
- Storage Systems

The CRL53 Glass and Glazing Catalog focuses on the Glass Hardware portion of the glass industry, and at over 700 pages full color pages it is an inclusive volume of items manufactured by leaders in this field.

In CRL53 glass professionals will find the hardware, tools, and supplies needed to run a successful glass shop. Major manufacturers worldwide are represented, and there is also a large selection of CRL brand products made by us in our California manufacturing facilities.

CRL53 is available for viewing or download online at **crlaurence.com**. Glass shops can also request a copy by contacting CRL Customer Service.

Mirror Mounting Hardware and Supplies

Mirror Extrusions and Frames

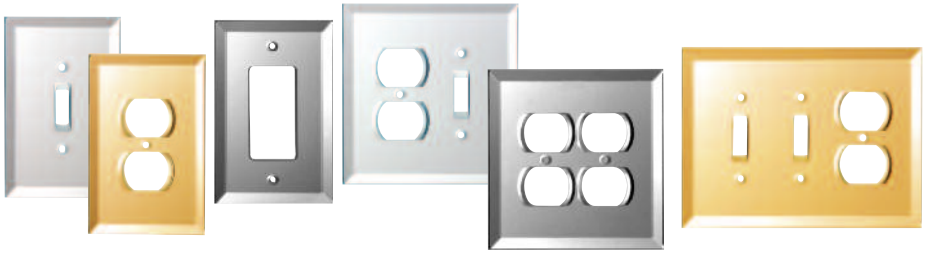
CRL GLASS AND GLAZING HARDWARE

For Pricing Visit Our Web Site or Call Us Toll Free at the Phone Numbers Shown on the Back Cover

Vanity Mirrors

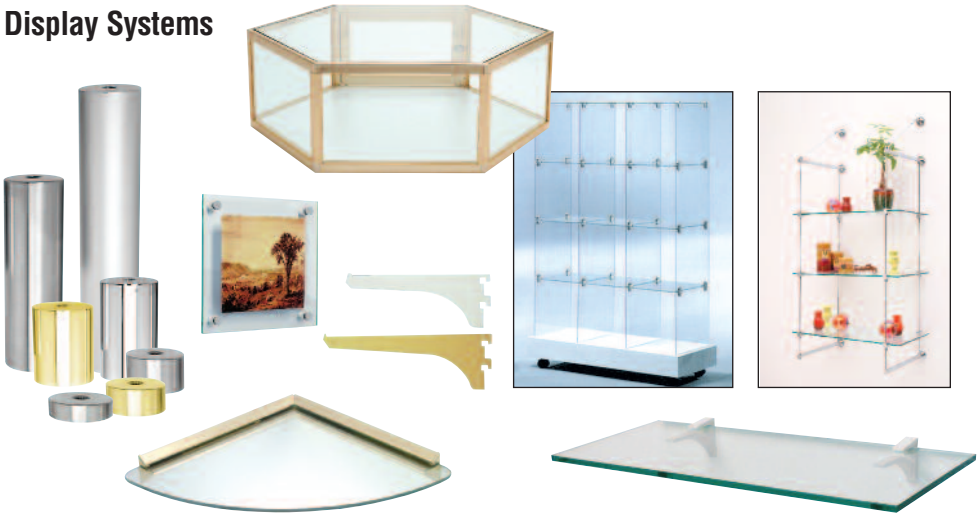
Security Mirrors

Mirror Outlet and Switch Plates



Mirror Grilles

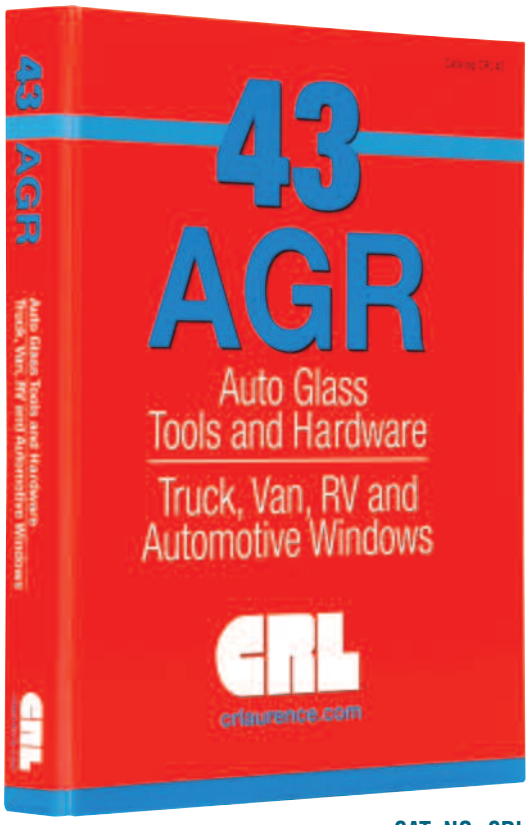
Display Systems



Glass Cabinet Hinges, Knobs, Pulls, and Locks

Other CRL Product Lines Featured in CRL53 Include:

- Transaction and Service Hardware
- Bullet Resistant Windows and Barriers
- The CRL Stacking Partition System
- Commercial Door Hardware
- Aluminum, Brass, and Stainless Steel Extrusions and Moldings
- Partition Posts and Sneeze Guards
- Sealants, Adhesives, Fasteners, Tools, and Safety Gear



CAT. NO. CRL43

CRL Auto Glass Catalog

CRL's Offering of Tools and Supplies for Professional Auto Glass Shops

- Auto Glass Adhesives, Sealants, Lubricants, and Cleaners
- Auto Glass Replacement Tools
- Storage and Handling Equipment
- Windshield Repair Systems
- Channels, Moldings, Weatherstrips
- Clips, Fasteners, and Rollers
- Shop Tools and Safety Gear

The CRL43 Auto Glass Catalog focuses on the Auto Glass industry. At over 400 full color pages it is an all-inclusive directory of the tools and supplies used by successful auto glass shops. Products manufactured by many nationally recognized brands are offered, plus many CRL brand products made by us in our California manufacturing facilities.

CRL43 also features our complete line of CRL-made sunroofs and windows for trucks, vans, and RV's. It's the most thorough selection of windows available to the aftermarket.

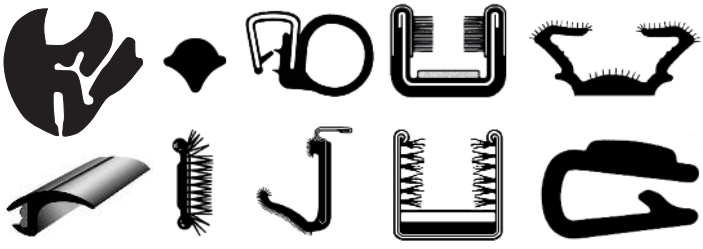
Auto glass shops can request a copy by contacting CRL Customer Service, or by visiting our web site, **crlaurence.com**, where the CRL43 is available for viewing or download.

Auto Glass Adhesives and Sealants

Cleaning Supplies and Lubricants

Auto Glass Tools

Automotive Weatherstrips, Moldings, and Replacement Gaskets



Safety Gear and First Aid Kits

C.R. Laurence™
AUTOMOTIVE PRODUCTS

ISO 9001 Design • Engineering • Quality

ISO-2008 Certification

Quality Built in the U.S.A.

CRL Manufacturing is a supplier to several Original Equipment Manufacturers, and many of the glass industry's major distributors. We are located in Vernon, California, just five minutes from the corporate headquarters of C.R. Laurence Company, and ten minutes from downtown Los Angeles.

In this modern 270,000 square foot facility we build our automotive products under the most strict standards. We use progressive and certified manufacturing processes to ensure that we give every product our full attention to detail. We are an ISO-9001:2008 Certified company which reflects the commitment of our employees. That's your assurance that when you select a product made by CRL Manufacturing you have made the best possible choice.

Truck Sliders

Sunroofs

Ask for Them by Name

The C.R. Laurence brand name means something in the Automotive Window business - quality products. That's why so many major glass distributors, van converters, and installation facilities nationwide offer C.R. Laurence sliders, sunroofs, and van conversion windows to their customers. They know that when they install a CRL product it's going to last the life of their customer's vehicle. They know that the installation will be fast and easy, reducing labor expense and their customer's waiting time. They know that the quality materials and workmanship put into a CRL product virtually guarantees there won't be any "call-backs" or complaints to deal with. They also know that the advanced design and styling techniques used by CRL has created a window they can be proud to install, and that their customers will find pleasing to the eye. They know all this because the C.R. Laurence name is on the product, and it represents quality throughout. So when it's time to choose a slider, sunroof or van window, ask for it by the brand name that means something in this industry, C.R. Laurence.

Van and
RV Windows

Sleeper Cab
and Trailer
Windows

CRL Manufacturing

- **Making Quality Products for Almost 40 Years**
- **User of Progressive ISO9001:2008 Manufacturing Processes**
- **Mechanical and Technical Expertise Available to Assist Your Manufacturing Processes**

You may know C.R. Laurence Company as the world's largest distributor of supplies to the glass industry. What you may not know is that we are also a manufacturer of over 5,000 products found in our Online Catalog. Our 270,000 plus square foot manufacturing plant in Vernon, California is just five minutes from CRL Corporate Headquarters, and ten minutes from downtown Los Angeles. It is here that we make some of the best products available to customers worldwide. Our people use progressive ISO9001:2008 manufacturing processes to make products for the Glazing, Railing, Architectural, Construction, Industrial, and Automotive industries. These certified processes ensure that we give every product our full attention to detail.

There are many industries served by the products manufactured in our California plant. We make architectural hardware for: new and retrofit building construction, railing systems and windscreens for balconies and decks, security transaction windows and devices, display hardware for the retail trade, specialty tools for the glazing trade, hinges and other products for frameless shower doors, and automotive windows for trucks, vans, and RV's.

Using strict manufacturing standards we produce the kind of quality hardware that has kept us at the head of this field for many years. That's your assurance that when you select a product made by CRL Manufacturing you have made the best possible choice.

We're always looking for ways to make our products better, and along the way we've added experts from different fields to our staff of designers, engineers, and craftspeople. Our goal is to make our products a better value to you, whether it's time or labor savings, extended service life, increased versatility or enhanced visual appeal.

Many of our products incorporate industry "firsts"; features offered by no other manufacturer because we feel that no product or process is so good that it can't be improved. We strive to make products of high quality and value. That's the goal we set for ourselves at the onset, and it's still our guiding influence.

Some of the improvements we've made have originated from people who have used our products and generously contributed their opinions and suggestions. We welcome your comments, and invite you to contact us at any time regarding a C.R. Laurence product.

Let CRL Manufacturing Put Our Expertise and Resources to Work for You

CRL Can Meet Your Manufacturing Needs With Our Extensive Array of Equipment and Our Knowledgeable Staff

C.R. Laurence can meet the manufacturing needs of businesses large and small. CRL Manufacturing offers a variety of services to help you produce high quality products you will be proud to put your name on. We manufacture quality tools, parts, and accessories for some of the world's largest corporations, while also serving the needs of smaller, more specialized businesses. CRL will help you make products you can provide to your customers with complete confidence.

What CRL Offers as Your Manufacturing Partner

CRL's capabilities encompass almost every phase of the manufacturing process, from the early stages of design, all the way through to packaging and shipment. We can supply such services as:

- **Design**
- **Engineering**
- **Cutting**
- **Milling**
- **Machining**
- **Bending**
- **Welding**
- **Assembly**
- **Polishing**
- **Finishing**
- **Powder Coating**
- **Cleaning**
- **Packaging**
- **Shipping**

AXYZ 10000 Series CNC Router

The Most Flexibility of Any Router Table on the Market

- Multiple tooling configurations available including drills, saws, and automatic tool changers with 8-position carousels
- Cutting Area: 68" x 192" (1.7 x 4.9 m)
- Maximum Cutting Thickness: Up to 2" (50.8 mm)
- Fabricates All Composite Materials, Aluminum, Bronze, Plastics, and Wood

CUTEX 240 CNC Lathe

A Significant Investment in Our Commitment to Manufacturing Quality

- Materials: Stainless Steel, Aluminum, and Plastic
- Machining Diameter: Up to 6" (152.4 mm)
- Machining Length: Up to 23" (584.2 mm)
- Tool Turret: Quick Change 20 Station
- Live Tooling: 5000 RPM 3HP
- Main Spindle: 5000 RPM 20HP
- Sub Spindle: 5000 RPM 7.5HP

Heller Mechanical 4-Roll Plate Bending Machine

Machine is Able to Bend Up to 5/16" (7.9 mm) Thick Stainless Steel, Bronze, Aluminum, and Composite Materials

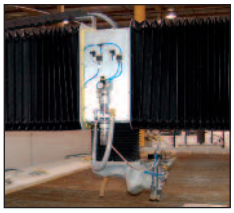
- Bends Round and Elliptical Column Covers
- Minimum Diameter: 12" (305 mm)
- Maximum Working Length: 161" (4.1 m)
- Maximum Material Thickness: 5/16" (7.9 mm)

FLOW IFB Integrated Flying Bridge Waterjet

State of the Art Technology With the Highest Quality Standards

CRL's Newest Addition of the FLOW IFB Waterjet Cutting System Provides "Cutting Edge" Technology to Our Customers

- Cuts Glass, Stone, Metals, and Composites
- Provides the Most Precise and Accurate Cut Possible by Using a Combination of High Pressure Water and Garnet Abrasive
- Gives Architects and Designers the Freedom to Create any Custom Design
- Able to Cut Complex Shapes and Design Patterns
- Cuts Without Heat Affected Zones or Markings
- Excellent Cut Edge Quality
- Able to Cut Through Materials of Any Thickness



TRUMATIC L3030 CO_2 Laser

A Significant Investment in Our Commitment to Manufacturing Quality

CRL's Addition of the TRUMATIC L3030 CO_2 Laser Cutting System Provides the Following Technologies to Guarantee Optimal Laser Processing Results:

- Provides Clean Oxide and Burr Free Cut Edges on Aluminum Alloys, Stainless Steel, and Thin Carbon Steel
- Common Line Cutting Optimizes Processing Time and Material Usage by Defining Common Cuts
- Plasma Sensing System to Monitor and Regulate the Cutting of Stainless Steel
- Microwelding Attaches Parts Through Spot Welding
- Optimized Processing to Reduce Cycle Times
- Parts Marking for Identification Purposes

CRL Manufacturing's Strengths Become Your Strengths

CRL's Manufacturing Quality

C.R. Laurence Manufacturing has decades of experience in producing products for the industries that we serve. During that time we've learned a lot about what it takes to make quality products, and do so in a cost-effective manner. We've also learned what it takes to please customers who have very high standards, and the kind of investment necessary to reach our quality goals.

TrumaBend V3200 CNC Press Brake

A Significant Investment in Our Commitment to Manufacturing Quality

CRL's Addition of Two TrumaBend V3200 174" Press Brakes, Along With Our Other Press Brakes and Shears, Provides the Production Capacity to Meet Your Cladding and Sheet Metal Needs

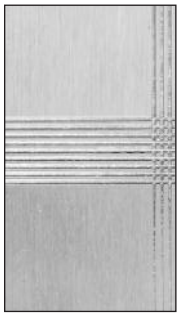
- Bending Length: 174" (4.4 m); Maximum Width: 145" (3.7 m); Throat Depth 16.5" (419 mm)
- Downstroking press brake allows the work piece to remain at the same working height firmly positioned against the backstop. Even with thin sheets, this ensures a high degree of flange accuracy and angle accuracy
- All tool segments are of standard width – up to 4" (101.6 mm) – and can be quickly exchanged, resulting in greater flexibility and reduced set up time
- A long stroke, very generous bend space, and an especially large, effective tool height allows multiple tasks to be performed

Amada V-4012 "V" Cut Machine

Expands Our Capability to Produce Decorative Railings and Channels

Makes Possible Our New Crisp Corner Cap Rails and Accessory Corners, and Our Ability to Offer You Decorative Options for Custom Cap Railing and Channel Profiles

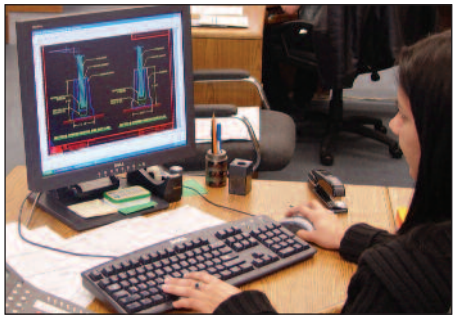
- Cuts extremely accurate "V" Groove patterns of various depths
- Grooves allow the fabrication of sharp, right angle edges along lengths of channel
- Can also be used to score decorative grooves in custom cap railing profiles
- Spacing between grooves can be varied to create different design effects
- Accommodates raw materials from 19-11/16" to 157-1/2" (500 to 4000 mm) in length, and 1" to 47-1/4" (25 to 1200 mm) in width



C.R. Laurence Manufacturing Start to Finish

Your Product, Design or Idea

Design Review



Engineering

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. To send e-mail go to **crlaurence.com**, click on Contact Us, and then click on Technical Sales for Railing Products.

Let CRL Manufacturing Do the Work for You

CRL's CNC Milling Machine Center

FADAL VMC V8030

- Cuts at Up to 10,000 RPM for Clean and Quick Cuts
- Speeds of Up to 400" (10.1 m) per Minute
- Working Size Up to 80" x 30" (2032 x 762 mm)

HAAS VF10/40

- Cuts at Up to 7,500 RPM for Clean and Quick Cuts
- Speeds of Up to 600" (15.2 m) per Minute
- Working Size Up to 120" x 32" (3048 x 813 mm)

FADAL VMC V4020

- 15,000 RPM Spindle for Clean and Quick Cuts
- Speeds of Up to 600" (15.2 m) per Minute
- Working Size Up to 40" x 20" (1016 x 508 mm)

CRL's Machine Shop

- Complete Machine Shop Capabilities
- Mills, Lathes, Drills, Saws, Etc.
- Cutting, Grinding, Drilling, Tapping, and More

CRL's Wood and Plastics Shop

- Complete Wood and Plastic Shop Capabilities
- Drills, Panel Saws, Table Saws, Routers, Etc.
- Cutting, Drilling, Routing, and More

C.R. Laurence Manufacturing Start to Finish

Cutting

Milling

Machining

Do You Have a New Product That Could be Made by CRL? Need Help With a Current Product? Contact Us

We welcome the opportunity to serve you, and are committed to providing your business with the services that produce quality products. To discuss the possibility of working with CRL Manufacturing we invite you to 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. To send e-mail go to **crlaurence.com**, click on Contact Us, and then click on Technical Sales for Railing Products.

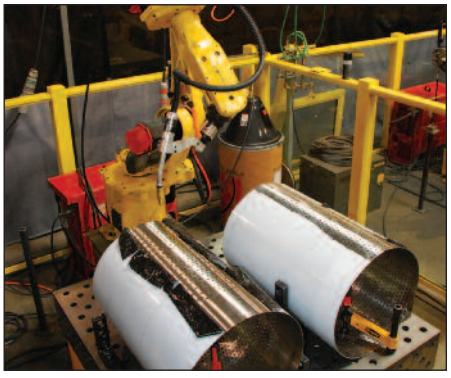
Use CRL's Equipment and Processes to Develop Your Project

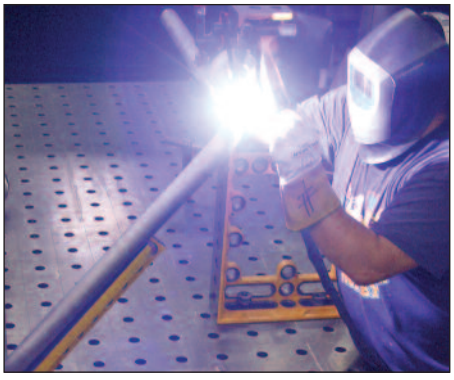
CRL's Metal Shear and Punch Department

- Metal Shearing of Up to 3/16" (4.7 mm) Thick Mild Steel
- Maximum Shearing Width of Up to 14' (4.2 m)
- CRL Manufacturing has 50 Punch Presses With Hundreds of Dies
- Custom Dies Made Quickly for Special Applications

CRL's Bending Department

- CRL has Over a Dozen Rotary Hydraulic Benders
- CRL has Hundreds of Dies for a Variety of Profiles and Radii
- CRL Offers a 3-Roller Bender to Bend Flat Bar, Square, Rectangular, or Round Tubing





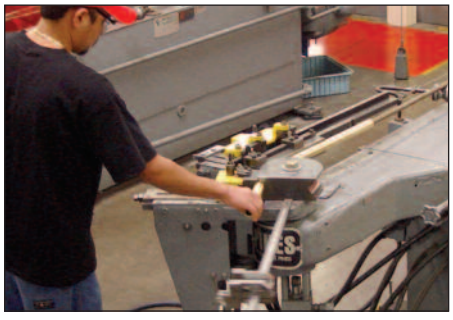
Advantages to CRL's Automated Robotic Arc Welding

- Automated Robotic Arc Welding Provides Untiring Production Cycles and Greater Accuracy
- Faster Part Cycles
- Improves Quality and Reliability

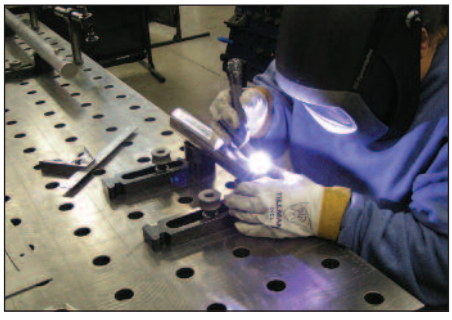
CRL's Welding Center

- Over One Dozen Fully Equipped Welding Stations
- Welding Capabilities Include Aluminum, Brass, Stainless Steel, and More

C.R. Laurence Manufacturing Start to Finish



Bending



Welding

Assembly

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Ask for Ext. 7730. To send e-mail go to **crlaurence.com**, click on Contact Us, and then click on Technical Sales for Railing Products.

CRL's Total Manufacturing Service Includes Bonding, Finishing, and Cleaning

CRL's Bonding Center

- CRL's Urethane Bonding Provides Attachment Without Mechanical Fasteners for a Cleaner, More Modern Appearance
- American Ultraviolet Co., Ultraviolet Bonding for Bonding Glass to Metal Without Mechanical Fasteners

CRL's Assembly Center

- Once Your Parts are Manufactured CRL's Assembly Center Can Put Them Together

CRL's Finishing and Polishing Department

- We Offer Finishing Capabilities for Aluminum, Brass, Stainless Steel, and More
- We Can Apply Brushed, Satin, and Hairline Finishes
- We Offer Polishing Capabilities for Aluminum, Brass, Stainless Steel, and More
- Almost Any Size or Length
- Climate Controlled Environment

CRL's Cleaning Department

- Custom Designed Ultra Sonic Cleaner
- Capacity to Clean Parts After Finishing or Prior to Painting

C.R. Laurence Manufacturing Start to Finish

Polishing

Finishing

Cleaning

Do You Have a New Product That Could be Made by CRL? Need Help With a Current Product? Contact Us

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Choose CRL as Your Manufacturer from Start to Finish

CRL Painting Center Now Includes Spraylat NEWLAR™ with CRL as an Approved Applicator

- **100% Fluoropolymer Architectural Powder Coating**
- **Performs to AAMA 2605 Without the Use of Primer**
- **Green Technology - No VOC's/Hazardous Waste**
- **Superior Scratch and Abrasion Resistance**
- **Exceptional Chemical Resistance**
- **15-Year Performance Warranty**
- **Powder Coating Up to 20 foot (6 m) Lengths**
- **Ability to Paint Any Architectural Color on the Market**
- **SilverSan™ Antimicrobial Powder Coating Available**

CRL's determination to meet the demands of today's challenges for superior performing architectural products and environmentally friendly application properties has been achieved through Spraylat's NEWLAR™, which offers superior mechanical properties, has a harder finish, and resists scratching and marring during fabrication, assembly and installation. NEWLAR™ is warranted for 15 years when applied by approved applicator C.R. Laurence Company.

CRL's Additional Services Include:

- A Staff of Engineering Professionals Willing to Work With You to Achieve Maximum Quality Products
- CRL's Worldwide Volume Purchasing Power on Materials
- Cutting Services for Production and Custom Order Jobs
- Batch Manufacturing for Reduced Turnaround Times and Costs per Unit
- Expert Packaging and Worldwide Shipping

CRL Automated Painting Center

- Automated Powder Coat Line for Black Paint
- Washer, Dryer, Powder Application, and Oven for Lengths Up to 48" (1219 mm)

Your Best Choice in a Manufacturing Partner

When looking for a manufacturer to make your idea or concept into a marketable product, you can choose CRL Manufacturing with confidence. We at CRL know that our years of experience, our modern technology, and our commitment to excellence can be your best choice for a partner in manufacturing.

C.R. Laurence Manufacturing Start to Finish

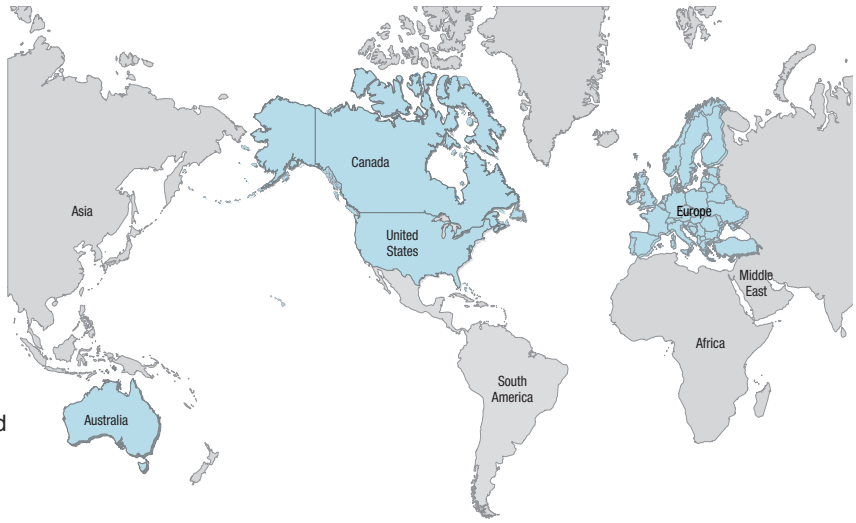
Painting

Packaging

Shipping

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. To send e-mail go to **crlaurence.com**, click on Contact Us, and then click on Technical Sales for Railing Products.

C.R. Laurence Customer Services



CRL Serves the World With Ever-Improving Service Capabilities From Three Continents

• North America • Europe • Australia

C.R. Laurence has been a supplier to customers worldwide for decades, and can now offer our unmatched range of products and services from CRL locations on three continents: North America, Europe, and Australia.

Communicating

In our history we have prospered as a company because we've followed a path of innovation and growth, always seeking new ways to use the latest technology to expand our service capabilities. Major advancements in the world of communications have made much of this possible. We've always been among the first to introduce new ways of reaching our customers, and in return, have made it easier for them to do business with us.

C.R. Laurence was the first in our industry to offer toll free telephone ordering. For over thirty years our customers have been able to call our 1-800 number to place orders, ask questions about products, get prices, and communicate with us without it costing them a cent. Our recent expansion into Europe lets us offer the same free phone and free fax service to our customers on that continent.

In the early '80's we added toll free fax ordering, making it possible for our customers to fax their purchase orders, parts lists, shop drawings and the like directly to our Customer Service Department at CRL Corporate Headquarters. It was during this time that we also introduced CRL FastFax, providing customers instant notification that their orders had been shipped.

One of our most important advances was the installation of the CRL Computer System in 1978. The power of our abilities multiplied many times when we went 'online' because we were better able to track inventory levels throughout our distribution network, and better able to process your orders quickly and more accurately. The ongoing evolution of the CRL Computer System now includes our Internet and fax servers, which empowers us to offer our customers in every corner of the world ever-improving service at every step in the process, from order entry through shipping and billing.

Some say our most important communications advancement was our entry into the business of Electronic Commerce with the introduction of the CRL web site in 1997. What was once a fledgling effort has blossomed into a full service web site featuring information regarding all of the products and services CRL has to offer. Customers who use **crlaurence.com** find an enlightening and comprehensive web site that is constantly improving with the addition of new features that make it quicker and easier to use. And now we have web sites especially tailored to the countries from which we do business (see next page).

C.R. Laurence makes a serious effort to promote ever-improving service by making the investments required to improve communications at every level. We want your business dealings with CRL to be simple, clear, and convenient. If you feel that we can improve communications at any level, we would like to hear from you. To submit comments, go to **crlaurence.com** and click on Contact Us, then click on Web Comments.

Building A Network

To provide the ever-improving service level we strive for has meant bringing CRL to our customers. From a single Los Angeles, California location we have grown to a network of distribution warehouses in five countries on three continents.

Each of our distribution warehouses are 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. Every warehouse receives fresh inventory each week through our Inter-Branch 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.

Another advantage of having regionally located warehouses in or near major metropolitan areas is the opportunity to serve our customers in person. Each CRL location has a Will Call Trade Counter open six days a week. For directions to CRL locations go to the **crlaurence.com** home page, point to General Information, and then click on About CRL. The pop-up menu will give you a selection for Distribution Locations.

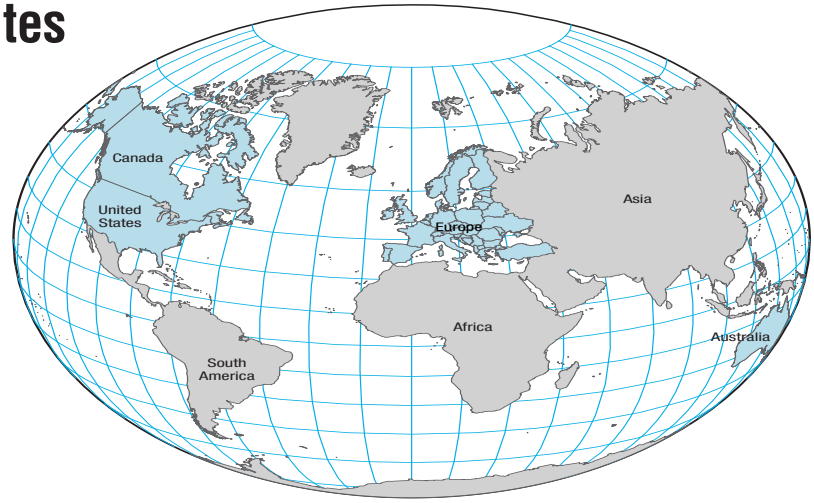
And in order to provide ever-improving service the CRL network of distribution warehouses will continue to grow. In recent years CRL service has come to Australia and Europe with the opening of locations to serve customers on these continents. New or enlarged locations are planned for metropolitan areas throughout the U.S. With the opening of each new facility, we make getting what you want from CRL faster and easier.

Investing In People To Serve You

The best way we can serve you is to have capable people available to answer your questions, take and expedite your orders, suggest solutions to problems you may be having with a job, or to assist you in any manner we can. We maintain ongoing training programs so that the CRL people who serve you will have at their command the resources to make your business transactions with us a pleasant experience.

CRL Provides Global Service With Regionally Oriented Web Sites

- **Access to All CRL Products and Services is Available 24 Hours a Day, Seven Days a Week When You Visit Us Online**
- **Our Sites are Updated Continually to Bring You Our Newest Products and Special Offers**
- **The Entry Port for 'All-Glass' Store Fronts Online®, Showers Online, Hand Rails Online, and Our Other Web-Based Services**



As a global supplier to the industries we serve CRL recognizes that the power of electronic commerce strengthens our ability to serve you locally, as well as our other customers worldwide. And while the Internet had created a virtual "global village", it's important to also have the capability to tailor our web sites to the specific needs and business conditions of the continents on which we are based. That said, it became apparent that our web site, **crlaurence.com**, had to at the same time be global in appeal, but still local enough to be relevant.

Thus the creation of our Global Web Site Directory. When you visit our web site you are directed to the home page of the individual site designated to host your home country.

You can also move from one site to another simply by clicking on the directory icon at the top of the home page. From here you have access to all of our sites, giving you the opportunity to explore the entire scope of CRL's online world.

As we progress in this global strategy, look for us to include new language options, and translation of our Online Catalog into many more of the major languages. We are committed to bringing the virtual world of C.R. Laurence to the world, and making your online shopping experience at **crlaurence.com** pleasant and easy to understand. We want you to be comfortable with CRL, and will work hard to make that possible.

Welcome to the C.R. Laurence Global Web Site Directory

Please select from one of these web sites to begin your visit

UNITED STATES and INTERNATIONAL *English Language* crlaurence.com	CANADA *English Language* crlaurence.ca	EUROPE – UK *English Language* crlaurence.co.uk	EUROPE – DE *Deutsche Sprache* crlaurence.de
UNITED STATES and INTERNATIONAL *Spanish Language* crlaurence.com.mx	CANADA *French Language* crlaurence.qc.ca	EUROPE *French Language* crlaurence.fr	EUROPE *English Language* crlaurence.eu
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Our full 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 over 50,000 of them 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. And if you ever need assistance, just contact us over the Internet or by toll free phone. We'll be glad to help.

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We know that the most efficient way for our customers to shop at CRL is by using this carefully planned and thoroughly prepared Online Catalog that makes it easy for you to find the CRL products and services that will best meet your needs. C.R. Laurence Company is committed to making our Online Catalog your best source for information and technical support.

What you will find at **crlaurence.com** is a link to who we are, what we do, and what we have to offer our customers. The CRL full service web site allows us to use the powers of Electronic Commerce to bring you closer to all of the products and services that we offer.

We take a Business-to-Business approach of conducting business over the Internet because it gives us so many ways to connect with you. Methods of searching for and ordering products that just a few years ago would have been impossible were it not for the versatility of this powerful tool.

Empowerment is what a good web site is all about. We let you make the decisions that will best serve you. You can build your orders and submit them 24 hours a day, seven days a week, at your convenience. You can review over 50,000 products which we make available, including pricing and current stock availability.

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- How to Create a User Name and Password
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- How to Search for Products
- How to Check Prices
- How to Check Stock
- How to Place an Order
- How to Request a Quote
- How to Request Product Data
- How to Pay Your Statement Online
- How to Contact Us
- How to See What's on Sale

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CAT. NO. UG11

The User's Guide to our web site shows you quick ways to learn how to locate necessary information. We've written step-by-step instructions to help you through our Online Catalog. Ask for your free copy today!

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- **Color Photos and Detailed Illustrations**
- **Easy to Understand Ordering Information**

Of all the products we bring you, our catalogs may be the most important. C.R. Laurence is in the business of making catalogs because we know that our customers find it convenient and informative to use these carefully planned and thoroughly prepared catalogs that make it easy for them to find exactly what they need.

Part of our catalog philosophy is to bring more of the information you need, and not overburden you with excess catalog literature. That is why we make our Master Catalogs that usually contain all of the products we offer to certain industries, as well as our Specialty Catalogs that focus on particular product groups. You can select CRL Catalogs for only the areas that pertain to your business, or choose to shop from our Master Catalogs because you like the convenience of finding such a wide variety of products all under one cover.

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- **43 AUTO GLASS TOOLS AND WINDOWS**
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- **63 ARCHITECTURAL HARDWARE**
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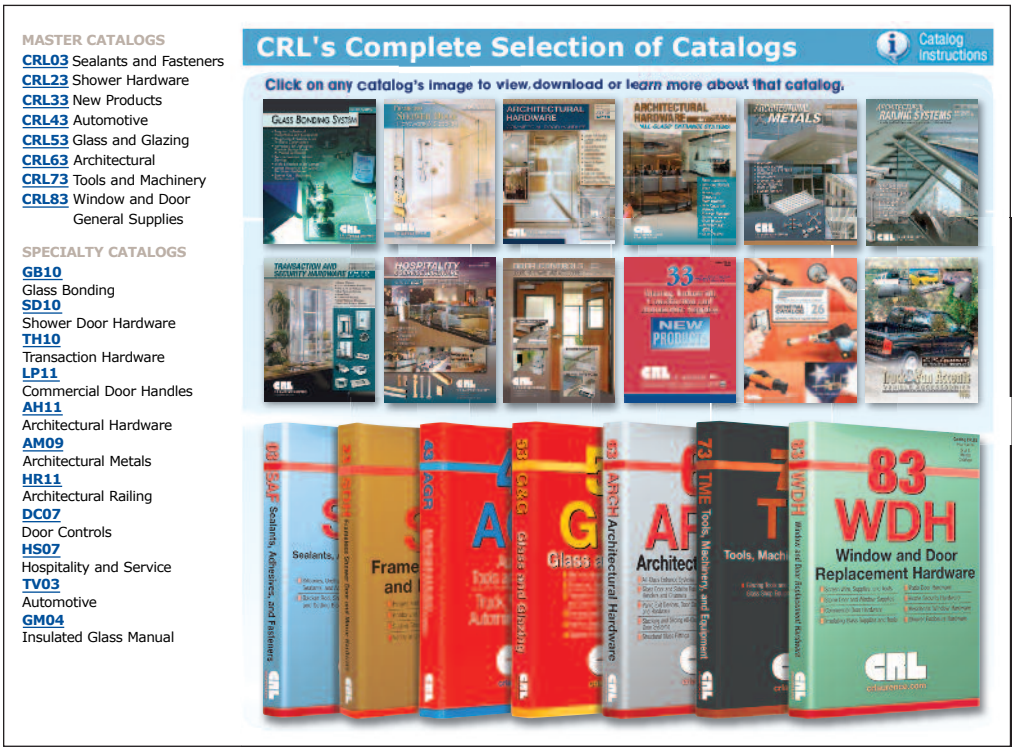
Once you open the page you'll be able to view full PDF versions of each catalog simply by clicking on the image of that catalog's cover. Browse through them page by page at your convenience. When you find a product that you want more information about, or would like to order, just click on its Catalog Number and you'll go directly to that product's Offer Page. It's another convenient way for you to shop at **crlaurence.com**.



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- Full Color Catalogs Showcasing Specific Product Lines
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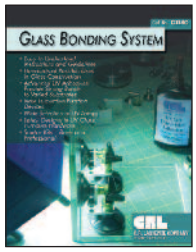
CRL Specialty Catalogs are available for some of our major product lines. Each catalog is presented in full color, and contains descriptive and informative specifications that will assist your field sales and estimating staff in the selection of the right product to satisfy your customer's needs. We invite you to contact CRL Customer Service by phone, fax, mail or e-mail. You can order them separately, or add them to your regular product orders. You can also view them over the Internet, or download them, when you log onto our web site at **crlaurence.com**.



See the latest in UV Glass Bonding tools and accessories including UV Adhesives, Fixation Devices, Curing Lamps, and Unique Hardware. Loaded with full color photos and technical data.

ASK FOR CATALOG GB10

CRL is your source for the largest selection of Frameless Shower Door Hardware and Supplies. See it all, plus a gallery of finished installations, in this informative catalog.

ASK FOR CATALOG SD10

Our full line of Commercial Door Handles, including Ladder Pulls, Locking Ladder Pulls, Center Locks, Deadbolt, Panic, and Electronic Egress Handles. There are photos of finished projects as well as helpful technical data.

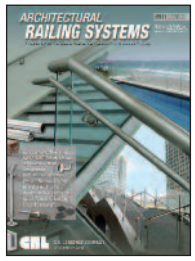
ASK FOR CATALOG LP11

Our Architectural Hardware Catalog features our expanded selection of architectural metal and glass hardware for the construction of 'all-glass' entrances in commercial office buildings and storefronts. There are photos of finished projects, as well as helpful technical data.

ASK FOR CATALOG AH11

See the latest in top quality Column Covers (Cladding), Wall Panels, Canopies, Sunshades, and Awnings. There are photos of finished projects, as well as helpful technical data.

ASK FOR CATALOG AM09



CRL offers the largest selection of Architectural Railing Systems. See them all, plus beautiful photographs of finished installations, in our Railing Systems Catalog.

ASK FOR CATALOG HR11

CRL is your source for the largest selection of Transaction and Security Hardware. Service Windows, Bullet Resistant Windows, Deal Trays, Speak-Thrus, Package Receivers, and more.

ASK FOR CATALOG TH10

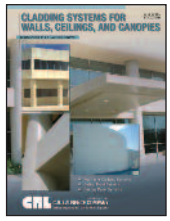
Our Hospitality and Service Hardware Catalog introduces CRL's expanded line of Standoffs, Swivel Fittings, Partition Posts, Sneeze Guards, and Glass Barrier Hardware.

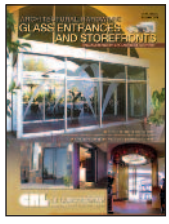
ASK FOR CATALOG HS07

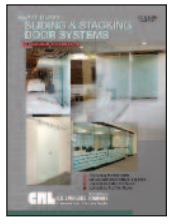
Our line of Door Closers and related Door Control Hardware can be found in this full color catalog. Specifications and ordering information make it easy for you to select the right product every time.

ASK FOR CATALOG DC07

CRL Products are Also Featured in the Sweet's Catalog







Contact us for free copies of Sweets Buyline inserts. You can also view them over the Internet, or download them from our web site at **crlaurence.com**.

Methods of Ordering
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- **crlaurence.com Never Closes!**
- **It's the Home of Our Online Catalog**

Many of our customers have found the most convenient method of ordering from CRL is through our "self-service" web site. When you use **crlaurence.com** to place your orders you have many options that other methods don't provide. You set the schedule and the pace because you can sign on 24 hours a day, seven days a week. You can build a personal catalog; even make changes or additions to your orders online. There's no easier way! See pages B558 through B559 for more information about the benefits of ordering at **crlaurence.com**.

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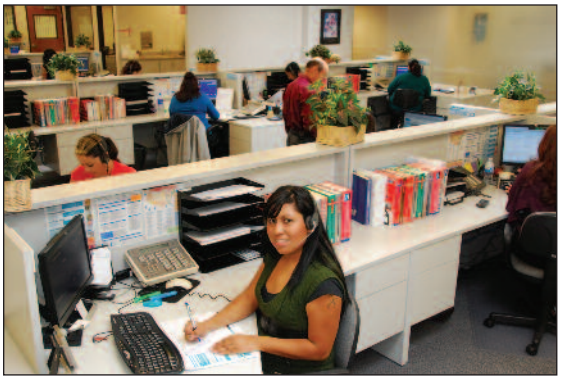
- **This Convenient Way of Ordering is Used Over 1,000 Times Every Day**

When we introduced toll free fax service in the '80's we had no idea how popular it would become, but now our customers send us over 1,000 orders or quote requests every business day! Fax ordering is very convenient because you can fill out your own purchase orders and then just fax them to us. You can be specific about shipping instructions or other details that will help us serve you. To send your orders or quote requests by toll free fax from anywhere in the U.S. or Canada, just dial **(800) 262-3299**. In Australia the number is **1800 813 013**. In Europe the number is **00 800 0262 3299**.



Toll Free Customer Service Order Desk

- **Our Friendly, Trained Staff is Always Happy to Hear From You**

For almost 40 years CRL has provided toll free ordering at **(800) 421-6144**. When you call our Customer Service Order Desk you'll find CRL people who are trained to provide assistance with CRL products and services. They have instant access to pricing, stock availability, and the status of your account, plus they can connect you to CRL Technical Sales personnel if you need specialized product assistance. Order Desk hours are 6 am to 5 pm (Pacific Time) Monday through Friday, and 7 am to 12 pm Saturdays. In Australia our number is **1800 424 275**. In Europe our number is **00 800 0421 6144**.

Will Call Trade Counter

- **When You Need It Today, Our Will Call Trade Counter is Your Fastest Option**
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Every CRL distribution location has a Will Call Trade Counter where you can place and pick up your orders in person. And when you place your order in advance by phone, fax, or over the Internet we can have it ready and waiting for you, which can save you a lot of time. Will Call Trade Counter hours are 8 am to 5 pm Monday through Friday, and 8 am to 12 pm Saturdays. Some of our most experienced people staff our Will Call Trade Counter, and they are always happy to see you. Remember, to save time just place your order in advance.

Who May Buy

C.R. Laurence is a manufacturer and wholesale distributor. Possession of this catalog, or any other CRL sales literature, does not constitute an offer to sell. Orders from individuals (except professional tradesmen) may not be accepted.

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Call Us Toll Free At (800) 421-6144

There's a friendly and helpful voice to help with your product inquiries whenever you call us toll free at **(800) 421-6144** from anywhere in the United States or Canada. Please ask for Customer Service and let us know what you are looking for, how many you need, and when you need them. We're experts at searching available sources worldwide. The experience gained by decades of service affords us the ability to serve you in more ways than you might realize. In Australia our toll free number is **1800 424 275**. In Europe our Freephone number is **00 800 0421 6144**.

Fax Us Toll Free At (800) 262-3299

They say a picture is worth a thousand words, and when you send us a fax describing what you need it makes it that much easier to serve you. CRL offers toll free fax service from anywhere in the United States and Canada. Just dial **(800) 262-3299**, and address your request to CRL Customer Service. Make sure to include your name and return telephone number. We'll be in touch shortly with an answer. Our toll free fax number in Australia is **1800 813 013**. In Europe our Freefax number is **00 800 0262 3299**.

CRL Web Quotes

CRL sells over 50,000 products. Many of them are custom made to your specifications, and in order to get pricing a quote must be done. Items that can be quoted in this area range from: Service and Transaction Windows, Door Rails, Custom Door Handles, Shower Door Hardware, Mirror Frames, Showcases, Partition Posts, Glass Processing Machinery, and much more. Quotes can also be requested on large quantities of stock items that are above and beyond our normal price breaks.

Simply click on the "Quote Request" link from the **crlaurence.com** web site, and follow the instructions. It's that easy.

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