

Introduction



C.R. Laurence Company began to supply frameless shower door hardware in 1991. What began as a modest offering of wall mount hinges in only two finishes, has expanded to over 20 families of shower door hinges, available in up to 20 finishes. Our line of accessories has kept pace and grown to include pull handles, knobs, towel bars, clamps, aluminum extrusions, wipes, seals and so much more. We proudly state that we have the largest selection of frameless shower door hardware in the glass industry.

As the growth of our business took place, it became increasingly apparent that our customers had a hunger for knowledge. It was with this in mind that an idea for a Frameless Shower Door Guide was born. It would not have been too difficult to put together a book that contained page after page of templates. However, it has always been our policy to listen to our customers and react to their needs. That is why this book was created, to be a complete guide to design, hardware selection, fabrication and installation of a frameless shower enclosure. Doing a book of this type presented a challenge in making it useful to the novice as well as the experienced installer. We feel that C.R. Laurence has met this challenge.

The format of this book addresses how frameless shower enclosures evolve (see next page), from the planning and design stages, all the way through to the actual installation process. By using this comprehensive guide, along with our current “Frameless Shower Door Hardware & Supplies Catalog”, you can feel confident that you will be delivering your customers not only the widest selection of hardware available, but are backing it with a professional guide for design, fabrication and installation. As with any of our publications, we always encourage your feedback as to how we can improve this book in the future.

We sincerely thank you for your business and pledge to you that in the future we will continue to offer the largest variety of hardware, continue to introduce new products, and be here for you with our Technical Sales Department to lend assistance when necessary. We truly feel that by working in partnership with our customers, and building strong business and personal relationships along the way, we can all succeed as we move into the next millennium.

How a Frameless Shower Enclosure Evolves

1. Planning the configuration and design of the enclosure.
2. Reviewing design considerations that will lead to both a beautiful and safe enclosure.
3. Selection of hardware and finish, ensuring that all safety specifications are adhered to when choosing the proper hinges.
4. Transferring the design to paper.
 - a. Properly measuring the enclosure.
 - b. Understanding center-line measurements and imaginary lines.
 - c. Using the correct line values and symbols on the drawing.
5. Calculate glass sizes and locations of cutouts, holes, etc.
 - a. Calculations based on the hardware, seal and wipes and other accessories used.
 - b. Figuring cutout, hole and notch locations.
 - c. Specifying which edges of the glass are flat polished or mitered.
 - d. Location of the temperer's logo.
 - e. Transferring the above to a drawing showing line values and symbols denoting dimensions, outages, etc.
 - f. Supplying appropriate templates to accompany your completed drawing.
6. Purchasing selected hardware to arrive in time for installation.
7. Review installation procedures appropriate to your specific job.
8. Be sure to have all required installation accessories. Include anchors, screws, sealants, and tools. It is a good idea to carry a wide variety of wipes and seals. If clearances change or jobsite conditions dictate, you will be prepared.

REMEMBER A GOOD INSTALLATION REQUIRES:

- *Measure properly
- *Identify ins and outs from plumb or level
- *Follow manufacturer's specifications and guidelines
- *Calculate proper glass deductions and provide correct cutout details
- *Do a safe installation

Table of Contents

Section 1: **Design**



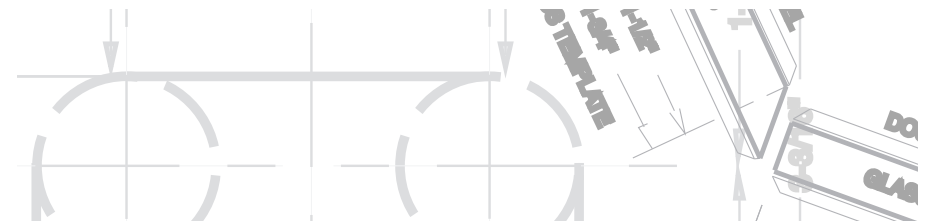
Section 2: **Fabrication**



Section 3: **Installation**



Section 4: **Templates**



C.R. Laurence Company has established a Technical Sales Department to assist our customers. If you have any questions concerning shower door hardware or any product from CRL, please contact us at:

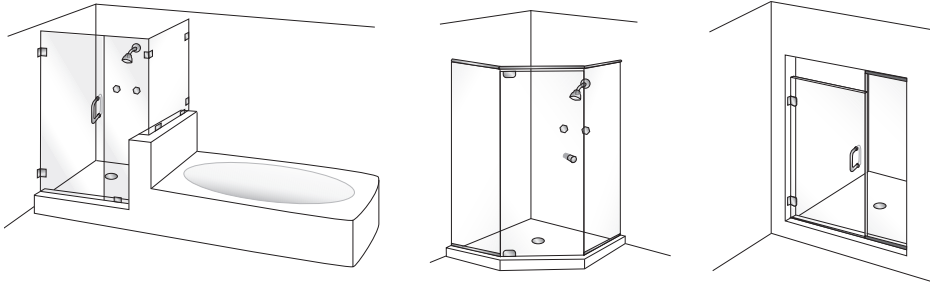
**(800) 421-6144 in the U.S.,
or (877) 421-6144 from Canada,
and ask for Extension 7740**

Design

Over the past several years we have reviewed over a thousand different frameless shower door designs, from the basic single door unit to ten panel multi-angle enclosures. With the variety of hardware we offer, we have been able to accommodate almost every design we have encountered. Many of the units fall into what we call our "Ten Most Popular Designs". In this section of the book we show basic illustrations of these ten designs.

The importance of design cannot be underestimated. For this reason we also show an area of this section called "Design Considerations". We encourage you to read those pages and use them as a reference guide whenever you do a frameless shower enclosure. With careful planning, you can design, select hardware, fabricate and install your enclosure without causing yourself a jobsite dilemma that could have been avoided.

A beautiful frameless shower enclosure may be limited only by the imagination of the designer. This can be best illustrated by simply viewing the many different photos that have been shown in our last three "Frameless Shower Door Hardware & Supplies" Catalogs. Transforming your idea or vision into reality requires not only quality hardware, but a design or plan to integrate the new enclosure into the existing surroundings.



Hardware Selection

Appropriate hardware selection is extremely important to attain the desired result of an aesthetically pleasing and safe shower enclosure. Proper hardware cannot be determined until you decide what glass thickness you will be using. In this section of the book we have done some "Product Overviews" of our line of hardware to brief you on some basic information. Our current "Frameless Shower Door Hardware & Supplies" Catalog will provide a complete guide to our hardware. Section 1 of our "CRL Frameless Shower Door Guide" will also show you a chart of our hardware separated by glass thickness. This will help you to make sure that the hardware you have selected will accommodate the glass thickness you wish to use. We also show another chart in this section with a suffix list of hardware finishes available.

By utilizing our "Frameless Shower Door Hardware & Supplies Catalog along with the various charts in this book, you can then advance to a "Frameless Shower Door Worksheet" we have prepared at the back of Section 1. Our "Frameless Shower Door Worksheet" contains a Checklist area which will assist in preventing you from overlooking many of the details that are important in designing a beautiful and safe frameless shower enclosure. The Product Selection area of the form will allow you to list your actual part numbers selected to order the appropriate hardware for your installation.



Design Considerations (Based on Most Frequently Asked Questions)

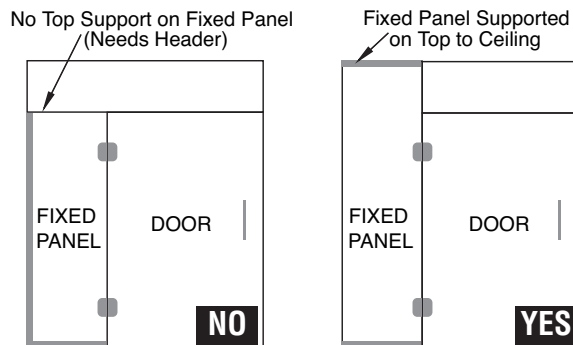
When you are in the initial stages of designing, it is important that you consider the issue of safety, along with potential problems that may arise. We have received phone calls from customers that say they have an "installation problem", when in reality, they had a design problem. The interesting thing to us is that many of these "installation problems" could have been avoided with better planning and design considerations.

We encourage you to spend a few minutes and review the list of design considerations we have assembled. We would also advise you not to make this a one time reading. The list below includes many basic issues that should be considered each and every time you begin to design a frameless shower enclosure. First and foremost, is the unit safe? This is a concern not only for the obvious protection of the end user, but a concern for the installer in this litigious society.

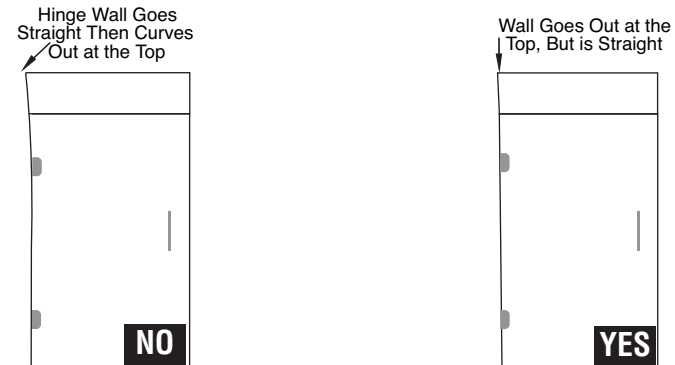
1) Do not hinge a door off of a fixed panel using glass-to-glass hinges, if the fixed panel is not supported at the top. If a door is to be hinged off of a fixed panel using glass-to-glass hinges, one of the following criteria must be met:

- (A) The door must be hinged off a fixed panel that is secured at both the curb and the ceiling with either U-Channel or Glass Clamps.
- (B) If the fixed panel does not go to the ceiling, the top of the panel must be secured with a header system or a support bar.

If the design allows, using wall mount hinges, and not glass-to-glass hinges (to avoid swinging a door off of an unsupported fixed panel), is a good solution. A door swinging off of an unsupported panel can cause the panel to wobble or flex, and be unsafe.



- 2) Always adhere to both manufacturer's specifications concerning weight and door width capacities when deciding the proper amount of hinges to use on the door.** It may be tempting to cut corners and save on hardware costs by stretching manufacturer's recommendations of hardware limitations. This is not a good business decision. Also, by no means should you ever put four C.R. Laurence hinges on a door. You will note that all of our recommended specifications address the use of two or three hinges.
- 3) When using wall mount hinges, put a straight edge on the wall that the hinges will be mounted on.** Remember, the wall can be out of plumb, but it has to be straight. Hinges operate on a pivot point, and pivot points must align with one another. When the pivot points are not aligned, and are clamped to a heavy piece of glass that will not flex, the glass can slip when the door swings. By identifying this condition when measuring, you can avoid the problem by either using top and bottom pivot hinges (to avoid the wall completely), or plan on putting a shim plate behind the back plate of the hinge that is closest to the wall, pushing it out so that it aligns with the pivoting point of the other hinge/hinges.

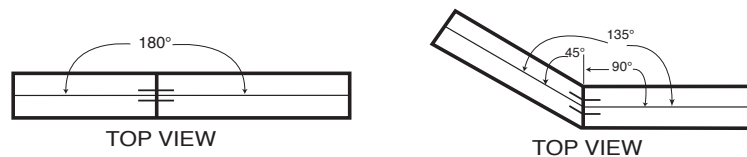


- 4) Make sure that when using wall mount hinges, the wall has a wood stud behind it, or the surface substrate is strong/thick enough, and secured sufficiently to accommodate appropriate screw anchors.**

Design Considerations (Based on Most Frequently Asked Questions)

5) Generally, hinging a door using a combination of wall mount and glass-to-glass hinges can be done, as long as precautions are taken and certain conditions exist. CRL offers hinges in our Geneva and Pinnacle Series for use on pony (step) walls. The GEN280 (Geneva) and PIN280 (Pinnacle) are for use with 180° pony walls, while the GEN245 (Geneva) and PIN245 (Pinnacle) are for use with 135° pony walls. These hinges can be used in place of the standard glass-to-glass wall hinges normally utilized for this application, and used in conjunction with the appropriate Glass-to-Glass Hinge for the angle. Previously in this application, the tile or marble had to be cut to allow the wall mount hinge to be recessed. That adjustment aligned the pivot points between both hinges for a proper installation. To eliminate this time consuming step, CRL has produced these modified wall mount hinges with a shortened center block (containing only one centering spring), and a small back plate (with only two mounting holes). This allows the hinge to be mounted to the surface of the tile or marble, and have it's pivot point match up with the glass-to-glass hinge pivot point above. **Note:** For 135° installations, it is required that the face of the pony wall be at a 45° angle to the wall, and a 90° angle to the door plane (see diagram below).

An excellent alternative solution in this case would be to use top and bottom pivot hinges. They will not require any tile alterations, and can be mounted in a variety of ways (floor and ceiling, floor and header, floor and fixed transom, etc.) Top and bottom hinges are also easier to install, and reduce glass cutout expense by only having cutouts at the top and bottom of the glass, as opposed to more cutouts used by glass-to-glass hinges (cutouts in both door and panel).



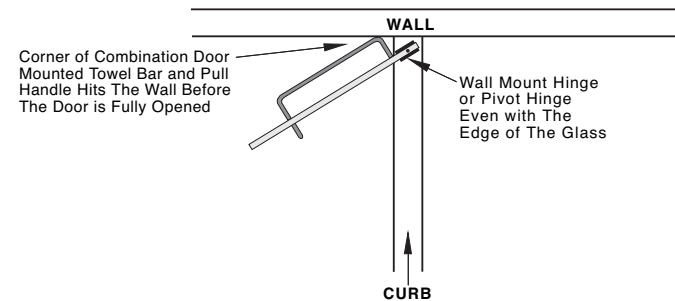
6) For a neo-angle enclosure with a knee wall, if the knee wall is mitered at a 45 degree angle, you can use standard wall mount hinges. However, if the knee wall has a 90 degree square end mounting surface, this will not work.

The only solution to addressing the square end mounting surface, is to place

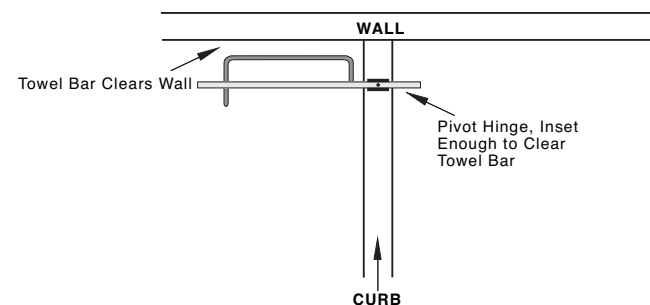
at least a 6" (152mm) mitered fixed panel next to the wall, and swing the door off of the panel using 180 degree glass-to-glass hinges (your opening needs to be wide enough to accommodate the fixed panel plus a satisfactory door width). If the knee wall is on the strike side of the door, there is no problem, simply miter the strike side of the door glass and everything will match up.

7) When using wall mount hinges with a combination towel bar and pull mounted on it, design consideration must be given to whether or not the end of the towel bar closest to the hinges will hit the wall, before the door opens up to it's full 90 degrees. As a solution, use top and bottom pivot hinges, and inset the hinges far enough from the edge of the glass (see diagram below) so that the pivot point has now projected far enough from the wall to clear the towel bar.

SITUATION: TOWEL BAR HITS WALL BEFORE DOOR IS FULLY OPEN.

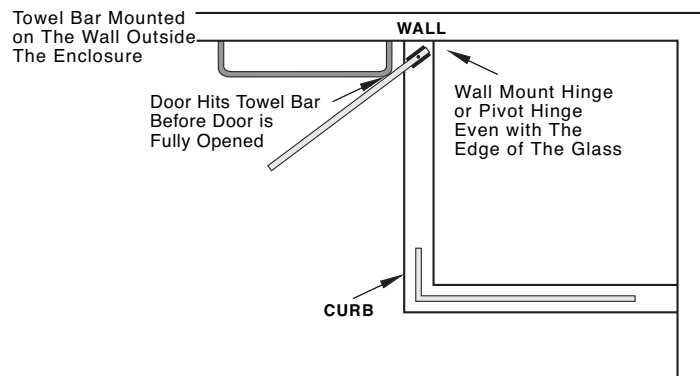


SOLUTION: USE TOP AND BOTTOM PIVOT HINGES. INSET FAR ENOUGH FROM THE EDGE OF THE GLASS TO CLEAR TOWEL BAR.

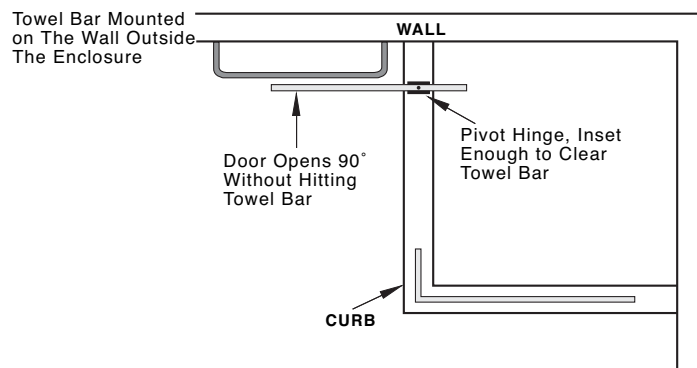


- 8) When using wall mount hinges, and the same wall has a towel bar mounted on it, design consideration must be given as to whether that towel bar will be hit by the door when it opens to it's full 90 degrees. This situation can cause two problems. It restricts access to the shower, and more importantly, with the glass hitting the towel bar, there is a chance of the door exploding. A possible solution is to use top and bottom pivot hinges, and inset the hinges enough so that the pivot point projects far enough from the wall to clear the towel bar.

SITUATION: DOOR HITS TOWEL BAR BEFORE OPENING 90°



SOLUTION: USE TOP AND BOTTOM PIVOT HINGES. INSET FROM THE EDGE OF THE GLASS FAR ENOUGH TO CLEAR TOWEL BAR.



- 9) You are asked to install a frameless shower unit in a tiled or

marbled enclosure that has a protruding accent strip, which is located in the area where the glass will go. You must address this in different manners depending on whether the door is involved, or just a fixed panel of glass. If you are mounting a door off of a wall with an accent strip, you have two choices. You can notch the door to match the accent strip profile, or remove the appropriate amount of accent strip both in front and behind the door, and replace it with a flat piece of matching tile or marble. Fixed panels of glass that are secured with U-channel down the vertical wall can be installed by notching a groove wide enough to accept the U-channel in the accent strip (this can be accomplished with a diamond blade in a 4" (102mm) hand grinder). On fixed panels that are installed only at the top and bottom with U-channel or glass clamps, you can notch the accent strip to accept the glass, or you can use a contour gauge to copy the accent strip profile. Then transfer the copied profile to the appropriate location on the edge of the glass panel. After copying the profile on the glass, be sure to increase that profile by 3/16" (5mm) all the way around to account for clearance, and then notch the glass. If you are using glass clamps, be sure to never position your clamps in the accent strip area.

- 10) You plan to use a wall mount hinge, but the wall you are hinging off of is not at the standard 90 degrees to the curb. This is an important factor to determine in the design stages, not at the time of installation. Using our Geneva Adjustable Series Hinge is a viable alternative (see current Shower Door Catalog). In addition, C.R. Laurence offers several hinge series that have reversible pivot pins, or will even accept custom angled pivot pins (see following chart). **Note: In all cases, standard glass size deduction on hinge side is affected.** You can alter the closing position of certain hinge types by 5 degrees in or out by using the reversible pivot pin that comes in the hinge, or you can order custom angled pins ranging from 1 to 45 degrees. It should be remembered that these hinges work off of a pivot point that is approximately 1-1/32" (26mm) off the wall. As you change the angle from the standard angle the hinge was designed for, you will pull the hinge side of the glass off center-line, proportionate to the amount of angle change (see page 2-10 in Section 2 of this book for chart explaining "Custom Degree Angles for Wall Mount Hinges").

Design Considerations (Based on Most Frequently Asked Questions)

The Chart Below Shows Hinge Series Offering Special Pin Degree Features.

Hinge Series	Standard Hinge Offers a Reversible 5° Pivot Pin	Custom Pivot Pins Available from 1° to 45°
Cathedral	Yes ▲	Yes ■
Elite	Yes ▲	Yes ■
Geneva	Yes ▲	Yes ■
Geneva 5° Pre-set	Yes ●	Yes ■
Geneva Adjustable	No	Up to 90° Adjustment
Jr. Cathedral	Yes ▲	No
Jr. Geneva	Yes ▲	No
Jr. Prima	No	Available in 5° only
Pinnacle	Yes ▲	Yes ■
Pinnacle 5° Pre-set	Yes ●	Yes ■
Pinnacle Adjustable	No	Up to 90° Adjustment
Prima	No	Available in 5° only
Regal	No	Up to 90° Adjustment
Senior Prima	No ▲	Available in 5° only
Trianon	Yes ▲	No ■
Ultimate	Yes	Yes

- ▲ Hinges come with reversible pivot pin. Hinge is set for standard closing position, but the closing position of the door can be altered 5° in or out by rotating the pivot pin.
- Hinges come with reversible pivot pin. Hinge is set for 5° offset into shower interior, but the closing position of the door can be altered by rotating the pivot pin.
- Custom order pivot pins are available on special order.

11) When using glass-to-glass hinges, we suggest never using a pivot pin of over 5 degrees. The reason for this is that the hinge operates off of a pivot point that is inset 7/8" (22mm) in from the edge of the fixed glass panel. As you increase the degree angle, the portion of the glass behind the pivot points starts to swing out proportionately with the degree of the pin offset. This causes the hinge side of the door to not align with the fixed panel.

A 5 degree pin will project the hinge side of the door glass out approximately 3/32" (2mm). This is usually acceptable. On glass-to-glass applications that require an angle of more than 5 degrees, we suggest you use top and bottom

pivot hinges (Prima, Cardiff, Rondo, Shell, Junior Prima, Senior Cardiff or Senior Prima Series). By the inherent design of the top and bottom hinge itself, they can be mounted at the angle needed to align perfectly with the fixed panels.

12) Consider the use of top and bottom hinges as part of your design criteria.

As you read our other design considerations, you have noticed that we recommend the top and bottom pivot hinges (Prima, Rondo, Shell, Junior Prima and Senior Prima Series) as a solution to many potential design problems. The top and bottom pivot hinges have grown in popularity for so many reasons. They will offer your customer more of the "all glass" look, since they are mounted top and bottom. You don't have traditional type hinges mounted anywhere in between the top and bottom, and interfering with that "all glass" look. The flexibility of application is another plus. Top and bottom pivot hinges can be mounted floor and ceiling, floor and header, floor and fixed transom, and several other ways. They also represent a cost savings when compared against many glass-to-glass style hinges. You can save not only on the cost of the hardware, but also save on the number of cut-outs required for the job. Of course not all customers will want to use top and bottom pivot hinges, but the combination of beauty and design flexibility makes these hinges something to consider when doing frameless shower enclosures.

13) An aluminum shower door threshold should be considered when a flat or outslloping curb condition exists under the door.

We offer stock lengths of threshold that can be siliconed to the curb under the door. The rounded, low contour of the threshold will not harm feet when entering or exiting the shower. The threshold helps to act as a dam, and will assist in watershed back into the shower. A bottom wipe can work in conjunction when positioned above the threshold. Attention should be given as to whether the slope of the floor causes an uneven clearance gap directly underneath the door. If so, we offer a Double Fin Vinyl Wipe (Cat. No. SDTDF) that offers two different leg lengths. Having the flexibility of the two fins allows you to deal with the uneven clearance gap. The Double Fin simply drags across the top of the threshold.

14) In the interest of safety, we recommend that all fixed panels should be supported by mechanical fasteners (U-channel or glass clamps).

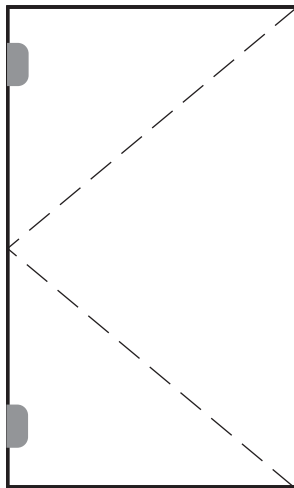
Ten Most Popular Designs

This area of the book shows you what we consider ten of the most popular designs you will encounter, shown hinged left or hinged right in each case (20 total drawings). We have shown a random selection of hinge type on each drawing. Your actual choice of a wall mount, glass-to-glass, or top and bottom pivot style hinge may vary. We have shown these illustrations only so that it may help you relate one of them to the unit you are designing.

In Section 2 (Fabrication) of this book, we have taken these same enclosure types and assigned glass panel identification numbers to each one. You will be able to use these in conjunction with information we supply you, to illustrate your actual final glass sizes. In addition, we will take three sample illustrations, draw out the measurements, make the appropriate hardware selection based on design, and actually calculate the final glass sizes.

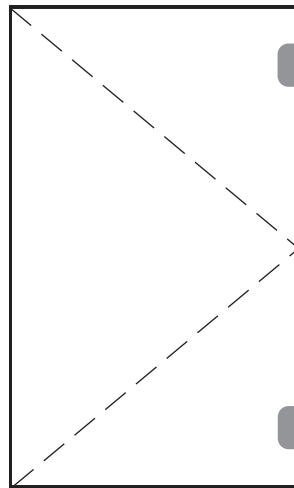
We strongly encourage you not to jump ahead, but to please follow this book in the orderly manner that we feel will best suit your educational needs.

Side Mount Hinges



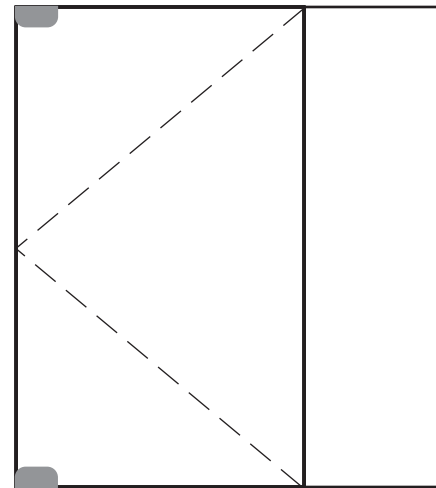
SINGLE DOOR,
HINGED LEFT

Side Mount Hinges



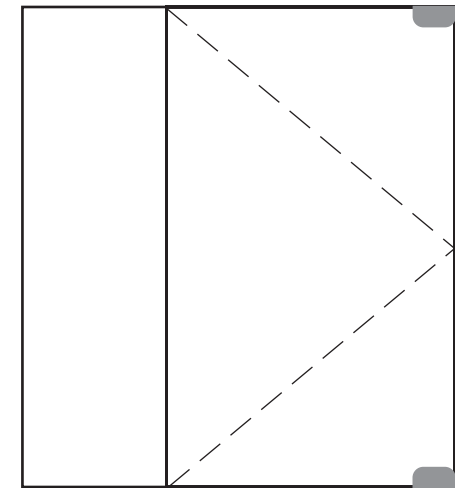
SINGLE DOOR,
HINGED RIGHT

Top and Bottom Pivot Hinges



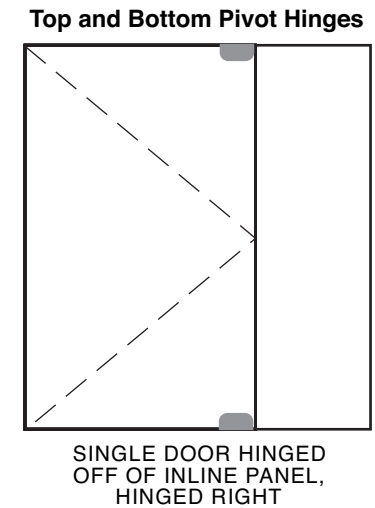
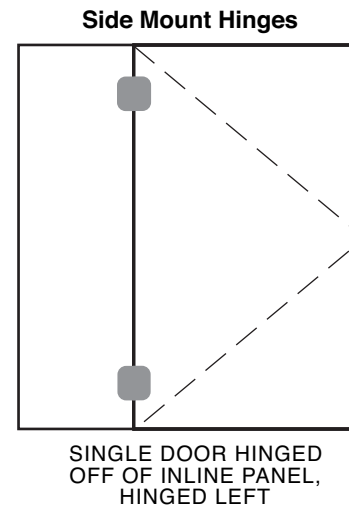
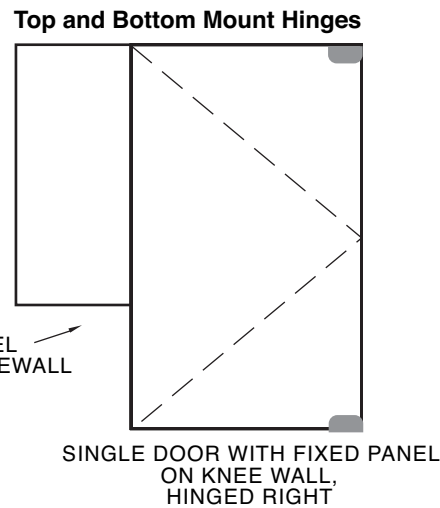
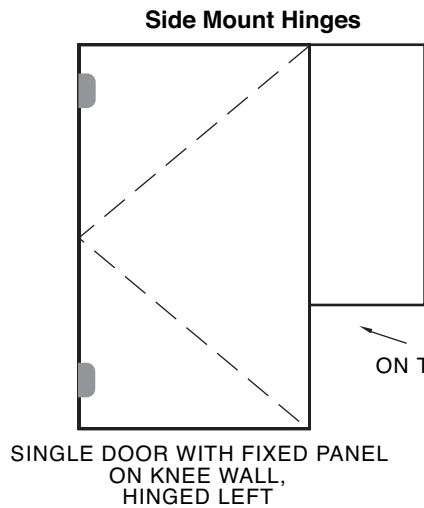
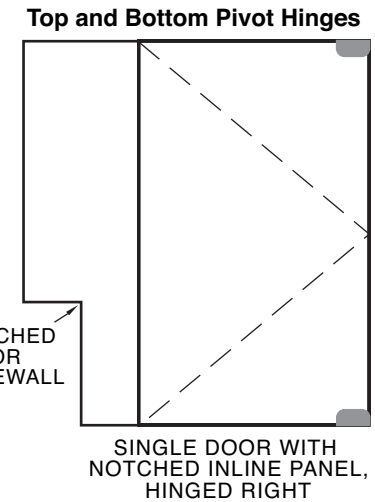
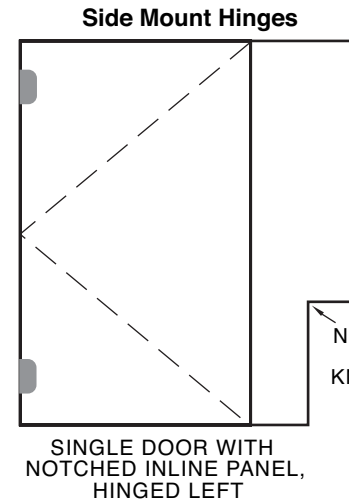
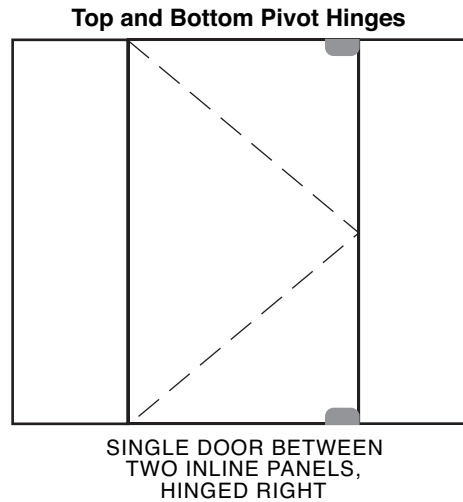
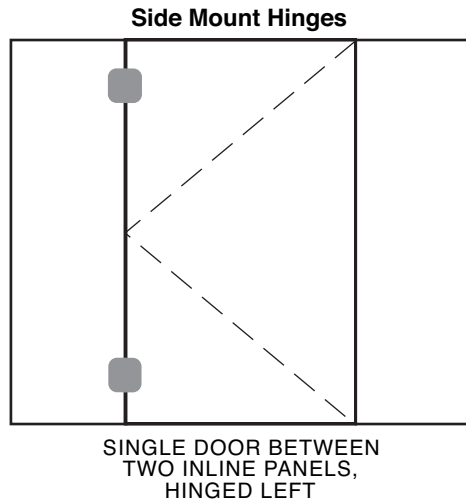
DOOR WITH INLINE PANEL,
HINGED LEFT

Top and Bottom Pivot Hinges

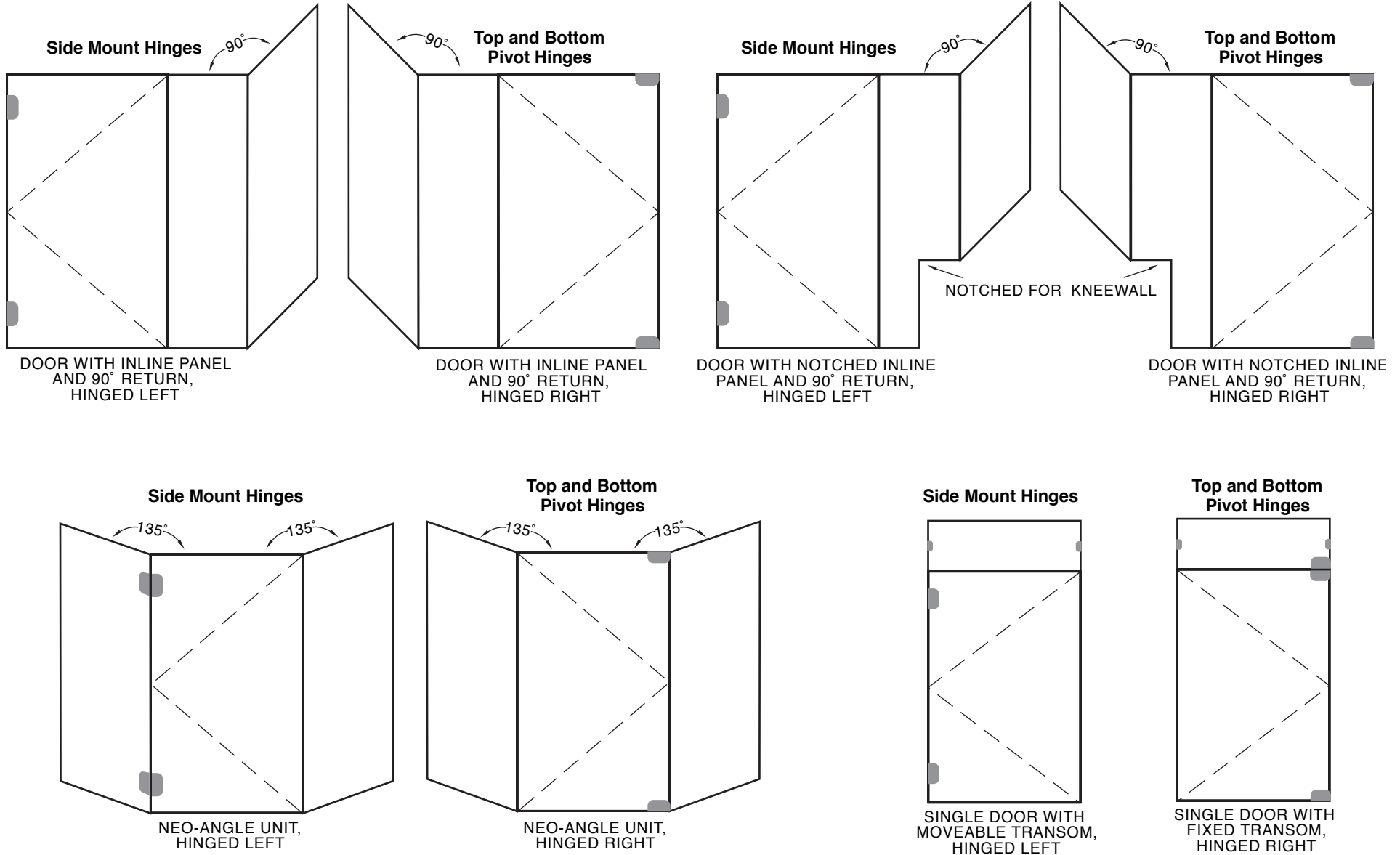


DOOR WITH INLINE PANEL,
HINGED RIGHT

Ten Most Popular Designs

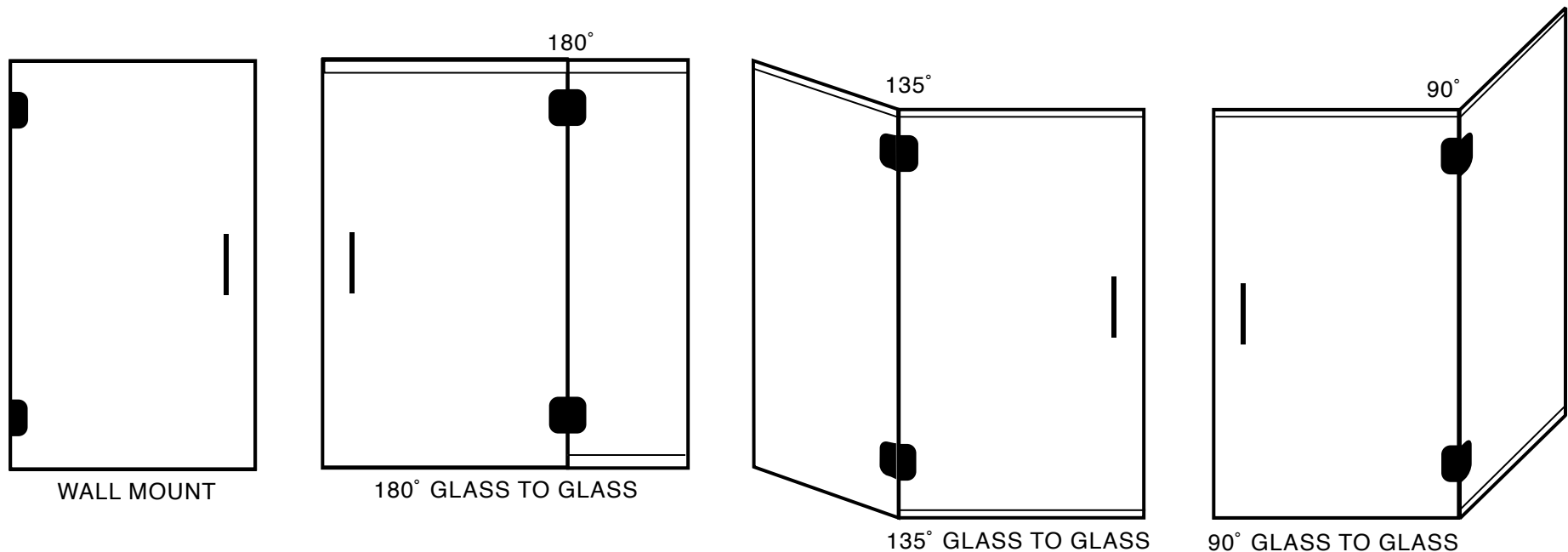


Ten Most Popular Designs



Standard Side Mounting Hinges Wall Mount and Glass-to-Glass Models

Shown below are typical applications for wall mount and glass-to-glass hinges. The following drawings are only a sampling, and can be used to assist in the design of your particular enclosure. It is not necessarily a case of right or wrong when selecting between a wall mount and glass-to-glass hinge, it is most often a design choice. Sometimes the jobsite conditions will dictate where one is more proper than the other, but usually it is a certain look that is desired. Generally wall mount hinge jobs are slightly less costly due not only to the cost of the hardware itself (when compared against glass-to-glass hinges) but also savings in the glass cost by making less cutouts. If you have a fixed panel of glass that does not go all the way to the ceiling, and your customer does not want a header, wall mount hinges present a good option. This is because, glass-to-glass hinges swinging from a fixed panel not secured at the top and bottom is not recommended. Several of our hinge series contain a reversible 5° pivot pin, as well as the option of a custom pivot pin manufactured for use on "off-angle" installations. In the end, you will find that with the wide variety of choices available, C.R. Laurence will be able to provide the hardware for most any design you imagine.

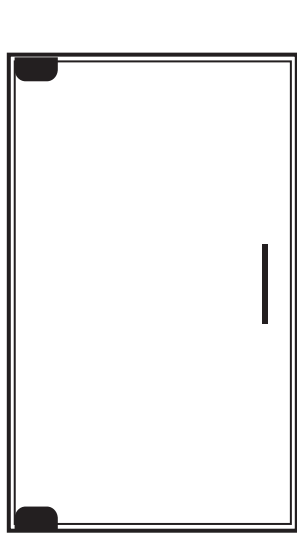


Top and Bottom Pivot Hinges

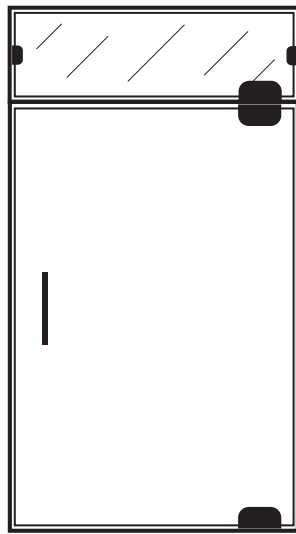
Top and Bottom Pivot Hinges (Prima, Cardiff, Rondo, Shell, Junior Prima, Senior Cardiff and Senior Prima) are quickly becoming the choice of many designers and installers for many reasons. There are many advantages to the top and bottom mount models. They carry the majority of the weight on the bottom, and have the ability to be inset from the wall, enabling clearance for towels bars and other projections. Top and Bottom Pivot Hinges provide the answer to several common installation scenarios. When a glass-to-glass installation is to be done, and the angle of installation does not fall into one of the common mounting degrees (90, 135, or 180), a Top and Bottom Pivot can be used. The Top and Bottom Pivot Hinge is also a good choice as an alternative to the combination of a wall mount hinge positioned on a knee wall with a glass-to-glass hinge above it.

Top and Bottom Pivot Hinges provide more of the desired "all glass" look as opposed to traditional hinges side mounted on the wall between the top and bottom of the enclosure. The Top and Bottom Pivot Hinges for 5/16" (8mm), 3/8" (10mm), and 1/2" (12mm) thick glass are also easily adaptable with our Deluxe Header System to provide an attractive and functional enclosure for units not going all the way to the ceiling. Optional 5 degree Pivot Pins may be ordered for these hinges to alter the closing position of the door. All in all, the versatility of the Top and Bottom Pivot Hinge makes it the choice of many installers.

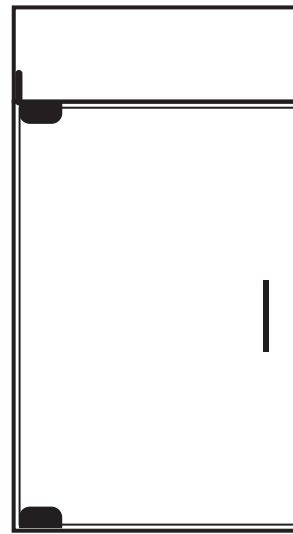
The following drawings illustrate some of the many applications for Top and Bottom Pivot Hinges.



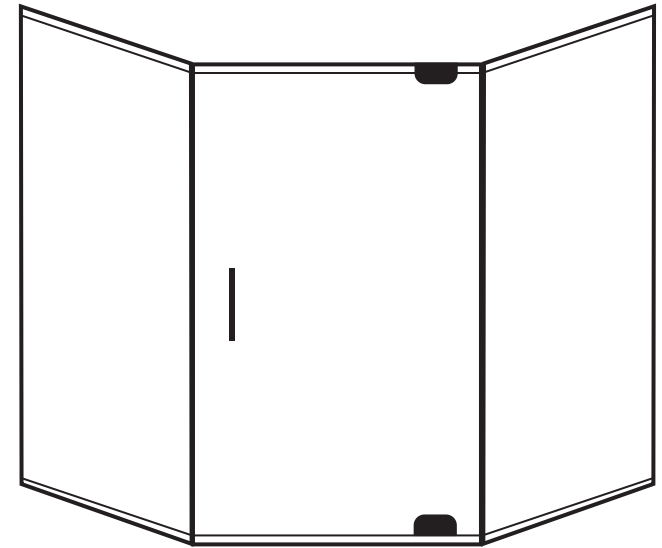
TOP AND BOTTOM PIVOT
FOR STANDARD DOOR
(Floor to ceiling)



TOP AND BOTTOM PIVOT
WITH FIXED TRANSOM



TOP AND BOTTOM PIVOT
(Open space above door)



TOP AND BOTTOM PIVOT IN 135°
GLASS-TO-GLASS APPLICATION
(Can be done with or without header)

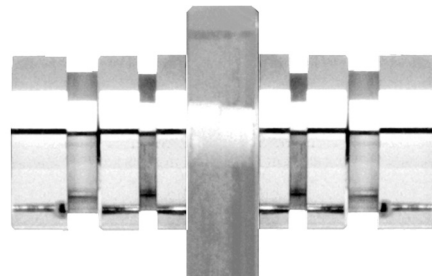
1-10

Pull Handles, Knobs and Towel Bars

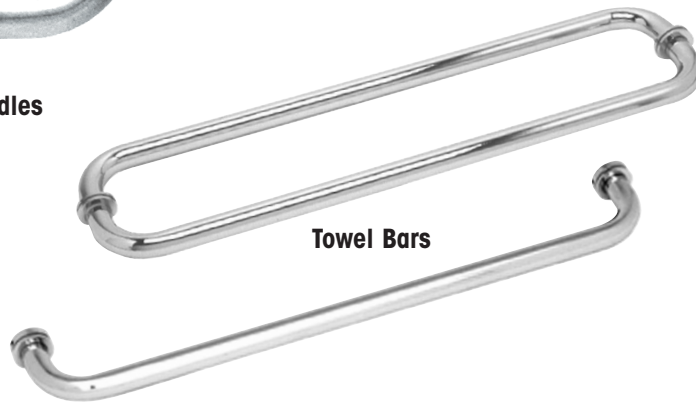
Our diverse line of Pull Handles, Knobs and Towel Bars allow you to accessorize the shower enclosure with quality and functional hardware. This decision is a customer's personal choice for the most part. However, it is wise to evaluate the size of the pull handles. Some people prefer the feel of a heavy solid pull, while others prefer the lighter tubular pull. The tubular pull has the advantage of staying cooler to the touch in steam applications. Available in a variety of color choices, sizes and styles, these accessories help complete the enclosure in a beautiful way.



Pull Handles



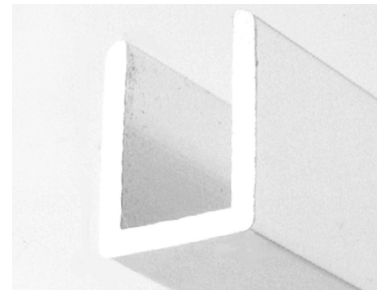
Knobs



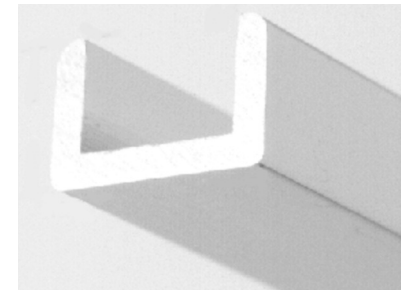
Towel Bars

U-Channel for Fixed Panels

U-Channel is a traditional choice of many installers to secure fixed panels of glass in the enclosure. The glass is merely siliconed into the channel to provide rigidity to the panel. The channel is popular because it requires no drilling of holes in the glass, as opposed to clamps which require holes or notches. U-Channel does provide a framing of the fixed panels, which is what many customers may wish to avoid. This is where clamps will be the fastener of choice.



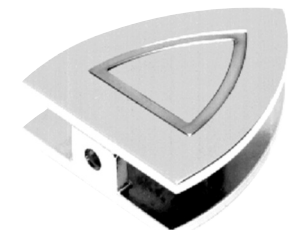
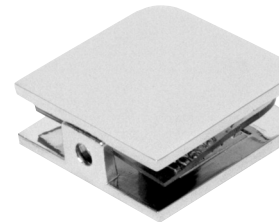
Fixed Panel Deep U-Channel



Fixed Panel Regular U-Channel

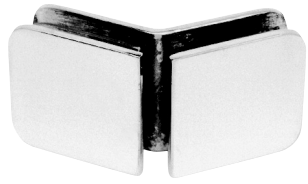
U-Clamps for Fixed Panels

Fixed Panel U-Clamps present an alternative method of securing vertical lites of glass in shower enclosures. While traditional U-Channel provides a framed appearance around the fixed panels U-Clamps will give more of an "all glass" look. U-Clamps feature a wide variety of finishes to complement existing hardware and do require a hole in the glass. U-Clamps can be mounted to the wall, ceiling or floor. Clear silicone can be used to seal the gap and provide a water-tight atmosphere.



Specialty Clamps for Fixed Panels

Clamps are offered for use on panels meeting at various angles, as well as clamps for specialized use on such areas as transoms and edges of marble or tile walls. Most all clamps require a hole or notch in the glass, and are available in a wide variety of finishes.



135° Glass Clamp



90° Glass Clamp



180° Glass Clamp



Movable Transom Clamps



180° Split Face and "Y" Inline Clamp

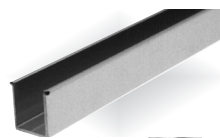


Deluxe Header System

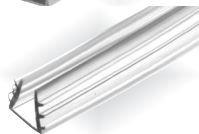
The Deluxe Header System provides additional support and a level of safety for securing fixed glass panels not reaching the ceiling. The double profile extrusion offers the choice of a round side, or flat side with mitered edges. Sold in 66" (1676mm), 98" (2489mm) and 144"-- (3658mm) lengths in a choice of up to ten finishes, the header has a narrow 1-1/4" (32mm) face to minimize the visible sight line. Each Header Kit consists of the aluminum header extrusion, a 36" (914mm) piece of matching snap-in filler for the door pocket, appropriate vinyl, and two 90 degree wall mounting brackets with screws. The kit will accommodate an inline installation, with metal corners sold separately for angled installations. Also sold separately is an Adapter Block for use with top and bottom pivot hinge installations. A 2-1/4" (57mm) blank Mounting Bracket is also offered for installations when the header does not meet the wall at 90 degrees, and the standard wall mounting brackets will not work. Detailed information concerning our Deluxe Header System is shown in Section 2 (Fabrication) and Section 3 (Installation).

Junior Header System

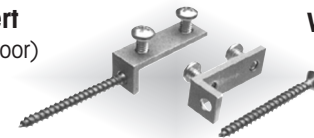
Our Junior Header System is designed for use with 1/4" (6mm) glass. Possessing the same profile as our popular Deluxe Header System, the Junior Header System is a beautiful component that adds structural stability to any installation. Most installations that use 1/4" (6mm) thick glass side lites, will generally require the use of a header due to the flexibility inherent in 1/4" (6mm) glass. The Junior Header System comes with the same components as our Deluxe Header, as well as (2) Cat. No. CD373 and (2) Cat. No. CD395 corner brackets. The profile height of this header is 7/8" (22mm) tall.



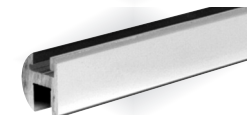
Snap-In Filler Insert
(Fits in header above door)



Clear Vinyl



Wall Mounting Brackets

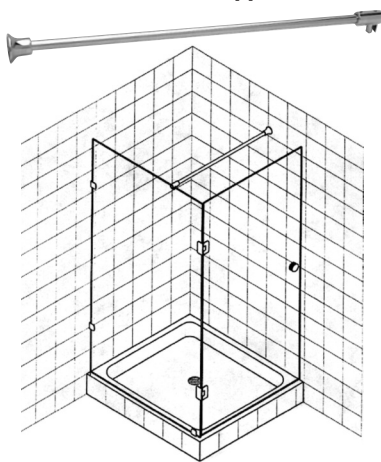


Deluxe Header

Support Bars

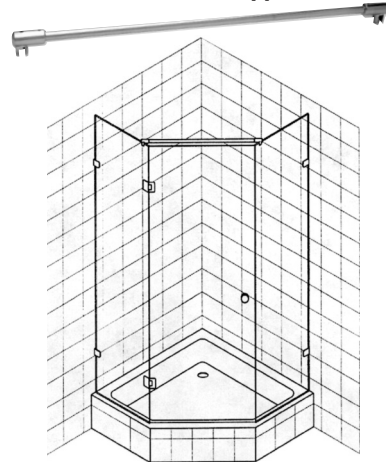
Support Bars are a functional and decorative alternative to header systems. The main advantage of a Support Bar is that it can be retrofitted to installations already completed. The Support Bar will provide support for fixed panels not reaching the ceiling. Wall-to-Glass or Glass-to-Glass Support Bars are available in many finishes, and require no hole drilling. Shown below are typical installations of Support Bars.

Wall-to-Glass Support Bar



Typical Wall-to-Glass Installation

Glass-to-Glass Support Bar



Typical Glass-to-Glass Installation

Silicones

C.R. Laurence offers choices of Silicones (see current Shower Door Catalog) that can be used in shower door installations to secure glass-to-glass, glass-to-tile, glass-to-wall or glass-to-channel. Specialty uses include sealing vertical joints in heavy glass, and for perimeter use on glass around our glass clamps. They are easily applied and will cure in the presence of atmospheric moisture to produce a durable and flexible glazing seal.

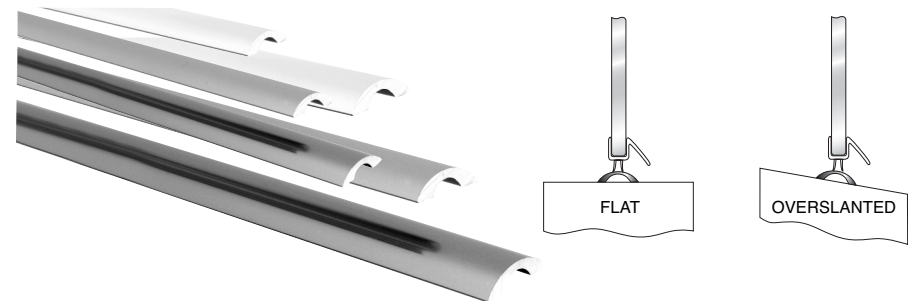
Clear Polycarbonates, Vinyl Seals and Edge Wipes

A frequently asked question to our Technical Staff is whether or not Wipes and Seals should be used to assist in minimizing leakage in the shower enclosure. This question is best answered by you in the design planning stage. Factors such as the size of the enclosure, desired gaps, location of the shower head and customer personal choice should be evaluated. The rule of thumb is that Wipes and Seals will help minimize leakage, but will not eliminate leakage if the design was poor. In general, their transparent or translucent colors perpetuate the all-glass appearance without detracting from the beauty of the enclosure. C.R. Laurence offers numerous shapes and sizes to work in most any configuration you encounter.



Thresholds

C.R. Laurence offers a Half-Round Threshold that can be used to assist watershed back into the shower stall. It can be used for flat or out-sloping curbs, or also to reduce wear and tear on a vinyl wipe that would normally drag across the floor. The rounded, low contour of the Threshold will not harm feet when entering or exiting the shower. The underside of the Threshold has a hollow center to accept a bead of silicone sealant used to adhere it to the curb or shower stall.



Hardware Selection by Glass Thickness

Once you have determined the glass thickness that will be used for your enclosure, the chart below can be used to assist you in choosing the appropriate hardware. You may then refer to our "Frameless Shower Door Hardware & Supplies" Catalog for the available finishes for that item. Then use the List of Finishes shown on page 1-16 to add the appropriate color suffix you have chosen. You will then have a complete catalog number to write down on your "Shower Door Worksheet" shown later in this section.

Hinge Series

1/4" Glass (6mm)	5/16" (8mm) Glass	3/8" (10mm) Glass	1/2" (12mm) Glass
Jr. Cathedral Jr. Geneva Jr. Prima Light Duty Frameless Milano Monaco Petite Trianon	Classique Grande Jr. Cathedral Jr. Geneva Light Duty Frameless Milano Monaco Petite Prima Regal Rondo Shell Trianon Zurich	Classique Concord Elite Estate Geneva Geneva Adjustable Geneva 5° Pre-Set Pinnacle Pinnacle Adjustable Pinnacle 5° Pre-Set Senior Prima Ultimate	Concord Elite Estate Geneva Geneva Adjustable Geneva 5° Pre-Set Pinnacle Pinnacle Adjustable Pinnacle 5° Pre-Set Senior Prima Ultimate

Wall Mount Brackets for Fixed Panels

1/4" (6mm) Glass	5/16" (8mm) Glass	3/8" (10mm) Glass	1/2" (12mm) Glass
Berlin Jr. Cathedral Monaco Petite Trianon	Berlin Cathedral Classique Geneva Grande Jr. Cathedral Monaco Petite Pinnacle & Prima Trianon	Cathedral Classique Geneva Grande Pinnacle & Prima	Cathedral Geneva Pinnacle & Prima

Handles, Knobs and Towel Bars

Most Handles, Knobs and Towel Bars are made to fit 1/4" (6mm) to 1/2" (12mm) thick glass. However, check the individual specifications shown in the current Frameless Shower Door Hardware & Supplies Catalog, for the product of your choice.

"U" Channel

Type	1/4" Glass (6mm)	5/16" Glass (8mm)	3/8" Glass (10mm)	1/2" Glass (12mm)
Regular	D631	D321	SDCR38	SDCR12
Deep	.....	.....	SDCD38	SDCD12
Channel & Wipe	.....	.....	SDW38	SDW12

Glass Clamps

Type	1/4" Glass (6mm)	5/16" Glass (8mm)	3/8" Glass (10mm)	1/2" Glass (12mm)
U-Clamp				
Traditional (Standard)	UC66	UC77	UC77	.....
Traditional (Oversize)	.....	UC79	UC79	UC79
Cathedral Style	GCB6279	GCB279	GCB279	GCB279
Heavy Duty (Square)	.....	.....	SGCU1	SGCU1
Heavy Duty (Beveled)	.....	.....	BGCU1	BGCU1
Monaco	MO638	MO638	.....	.....
90° Clamp				
Traditional (Standard)	GCB690	GCB90	GCB90	.....
Traditional (Oversize)	.....	GCB91	GCB91	GCB91
Cathedral Style	GCB6290	GCB290	GCB290	GCB290
Estate	.....	EST111	EST111	EST111
Heavy Duty (Square)	.....	.....	SGC90	SGC90
Heavy Duty (Beveled)	.....	.....	BGC90	BGC90
Monaco	MO690	MO690	.....	.....
135° Clamp				
Traditional	GCB635	GCB135	GCB135	GCB135
Cathedral Style	GCB6235	GCB235	GCB235	GCB235
Heavy Duty (Square)	.....	.....	SGC135	SGC135
Heavy Duty (Beveled)	.....	.....	BGC135	BGC135
Monaco	MO635	MO635	.....	.....
180° Double Stud Clamp				
Traditional	.....	GCB184	GCB184	GCB184
Cathedral Style	GCB6280	GCB280	GCB280	GCB280
Heavy Duty (Square)	.....	.....	SGC180	SGC180
Heavy Duty (Beveled)	.....	.....	BGC180	BGC180
Monaco	MO680	MO680	.....	.....
180° Single Stud Clamp				
Traditional	GCB680	GCB180	GCB180	GCB180
180° Split Face and "Y" Inline Clamp				
Traditional	.....	GCB182	GCB182	GCB182
Monaco	MO682	MO682	.....	.....
Movable Transom Clamp				
Traditional (Wall Mount)	.....	GCB186	GCB186	GCB186
Traditional (Glass-to-Glass)	.....	GCB188	GCB188	GCB188

C.R. Laurence Co., Inc. For technical assistance in the United States call toll free (800) 421-6144; from Canada call toll free (877) 421-6144; Outside the U.S. and Canada call (323) 588-1281. Ask for Tech Sales at Extension 7740. Toll free fax (800) 458-7496.
crlaurence.com

Hardware Selection by Glass Thickness

Deluxe Header System

Size	1/4" Glass (6mm)	5/16" Glass (8mm)	3/8" Glass (10mm)	1/2" Glass (12mm)
66" Length (1676mm)	N/A	SDH660	SDH660	SDH660
98" Length (2489mm)	N/A	SDH980	SDH980	SDH980
144" Length (3658mm)	N/A	SDH144	SDH144	SDH144

Junior Header System

Size	1/4" Glass (6mm)	5/16" Glass (8mm)	3/8" Glass (10mm)	1/2" Glass (12mm)
98" (2489mm) Length	HEADER06	N/A	N/A	N/A

Fixed Panel Support Bars and Bracket

Size	1/4" Glass (6mm)	5/16" Glass (8mm)	3/8" Glass (10mm)	1/2" Glass (12mm)
Wall-to-Glass Bar	SUP06	SUP06	SUP10	SUP10
Glass-to-Glass Bar	SUP26	SUP26	SUP20	SUP20
Support Bar Bracket	SBB45	SBB45	SBB45	SBB45

Thresholds

Size	1/4" Glass (6mm)	5/16" Glass (8mm)	3/8" Glass (10mm)	1/2" Glass (12mm)
98" Length (2489mm)	SDT980 S1L001	SDT980 S1L001	SDT980 S1L001	SDT980 S1L001

Clear Polycarbonates, Vinyl Seals and Edge Wipes

Type	1/4" Glass (6mm)	5/16" Glass (8mm)	3/8" Glass (10mm)	1/2" Glass (12mm)
Polycarbonate "h" Jamb	P140HJ	P516HJ	P380HJ	P120HJ
180° Polycarbonate for Strike and Door Jamb	-----	-----	P180SDJ	-----
"Y" Inline Panel Seal for 180°	-----	PCC8	PCC10	-----
"Y" Inline Panel Seal with Vinyl for 180°	-----	PCK8	-----	-----
Multi-Purpose "H" Wipe	P250HW	P312HW	P375HW	-----
135° Polycarbonate for Strike Jamb	-----	P045SJ	P135SJ	-----
135° Polycarbonate for Door Jamb	-----	P045DJ	P135DJ	-----
Polycarbonate "U" with Leg and for 90°	PCA6	PCA8	-----	-----
Polycarbonate "U" with Leg and Seal for 90°	-----	PCJ8	-----	-----
90° Polycarbonate for Strike Jamb	-----	-----	P090SJ	-----
Polycarbonate Angle Jamb	-----	-----	P12LJ	P12LJ
Dual Durometer PVC Seal and Wipe	P14WS	P770WS	P880WS	-----
Co-Extruded Clear Bottom Wipe with Drip Rail	P914WS	P956WS	P990WS	P912WS
Polycarbonate Bottom Rail	-----	P450BR	P500BR	P660BR
Translucent Vinyl "T" Wipe	-----	SDTW	SDTW	SDTW
Translucent Vinyl Bulb Seal	-----	SDTJ	SDTJ	SDTJ
5/32" (4mm) Maximum Gap	-----	SDTB	SDTB	SDTB
7/32" (5.5mm) Maximum Gap	-----	SDTS	SDTS	SDTS
Translucent Vinyl "V" Seal	-----	SDTS	SDTS	SDTS
Translucent Vinyl "L" Seal	-----	SDTL	SDTL	SDTL
Translucent Vinyl Double Fin Seal	-----	SDTDF	SDTDF	SDTDF

List of Finishes

All of our hardware is available in our two most popular finishes, brass and chrome, and over 20 finishes are available for many others. See your "Frameless Shower Door Hardware & Supplies Catalog" for a complete selection of finishes available for each product. C.R. Laurence also offers custom finishes in many of our products.

Use the list below in conjunction with our "Frameless Shower Door Hardware & Supplies" Catalog. By combining the appropriate hardware choice with the finish suffix shown below, you will then have a complete catalog number. You can then write that catalog number on your "Shower Door Worksheet" shown later in this section.

Example:

Hinge: Geneva Wall Mount Full Back Plate

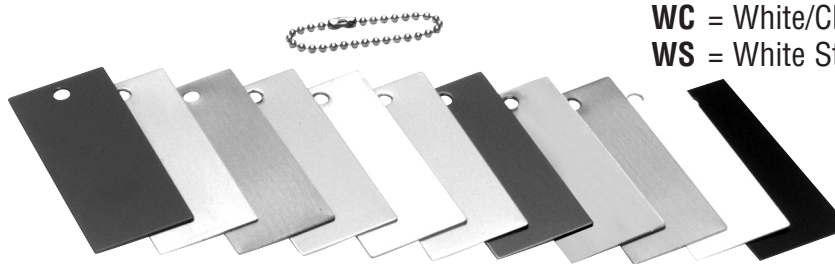
Base Catalog Number is GEN037

Finish: Chrome

Suffix is CH

Complete Catalog Number is GEN037CH

- | | |
|--|---|
| A = Anodized | GP = Gold Plated |
| AB = Anodized Brushed | ORB = Oil Rub Bronze |
| ABR = Antique Brass | PN = Polished Nickel |
| ABCO = Antique Brushed Copper | PS = Polished Stainless (Ultimate and Zurich only) |
| ABN = Antique Brushed Nickel | PW = Brushed Pewter |
| ABRZ = Antique Bronze | SB = Satin Brass |
| BA = Brite Anodized | SC = Satin Chrome (Matte) |
| BBRZ = Brushes Bronze | SN = Satin Stainless |
| BCO = Brushed Copper | SS = Satin Stainless (Ultimate and Zurich only) |
| BGA = Brite Gold Anodized | RD = Red |
| BL = Black | UBR = Ultra Brass |
| BN = Brushed Nickel | W = White |
| BP = Brass on Stainless (Zurich only) | WC = White/Chrome |
| BR = Polished Brass | WS = White Stainless |
| BS = Black on Stainless (Zurich only) | |
| BSC = Brushed Satin Chrome | |
| CO = Polished Copper | |
| CH = Polished Chrome | |
| DU = Duranodic Bronze | |
| GA = Gold Anodized | |
| GM = Gun Metal Nickel | |



A set of color chips for many of our available finishes can be ordered as Catalog Number SDCSK. Many Color Clips are available individually and can be ordered by using the base. Catalog Number of : CH1P and Adding a color suffix. Example: CH1PBN

Frameless Shower Door Worksheet

Save this original. Make copies for use as worksheets.

Company: _____ Contact: _____ Phone No. () _____ Fax No. () _____

Guide to using the "Frameless Shower Door Worksheet"

This Worksheet was designed to assist you in covering the details required to complete a frameless shower enclosure. The Checklist section requires that you mark the box or fill in the blank that applies to your unit. Going through this exercise should prevent you from overlooking any details related to the installation, and assist you in making hardware selections. The **Product Selection** area is where you can actually write down the complete catalog numbers of the products you have selected.

Checklist: (mark each box or fill in each blank where applicable)

Glass Thickness: 1/4"(6mm) 5/16"(8mm) 3/8"(10mm) 1/2"(12mm)

Hardware Color: _____

Hinge Type: Wall Mounted Glass-to-Glass _____ °
 Top and Bottom Pivot

Desired Door Width: _____

Configuration: Floor to Ceiling Header on Top
 Floating Top

Fixed Panel Securing: Regular U-Channel Clamps
 Deep U-Channel

Door to Swing: In and Out Out Only

Wipes and Seals: Yes No

Corner Joint: Mitered Overlapped

Knee Wall or Step: Yes No

Notes: _____

Fax Completed sheet to: **C.R. Laurence Co., Inc.**
Fax No. (800) 587-7501
Then call to discuss:
(800) 421-6144 Ext. 777

Product Selection: (mark each box or fill in each blank where applicable)

Use Frameless Shower Door Hardware and Supplies Catalog for Base Catalog Number, and add the appropriate suffix from the List of Finishes on Page 1-16.

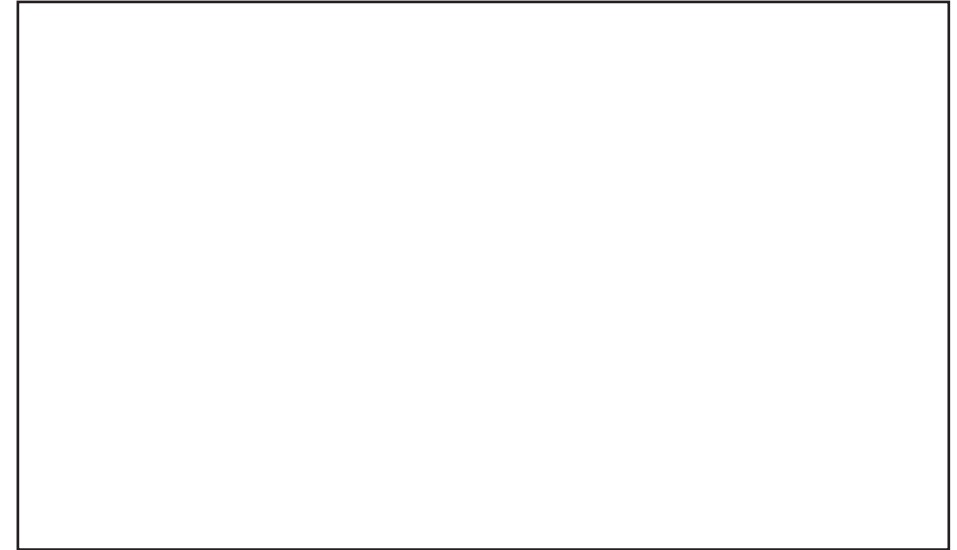
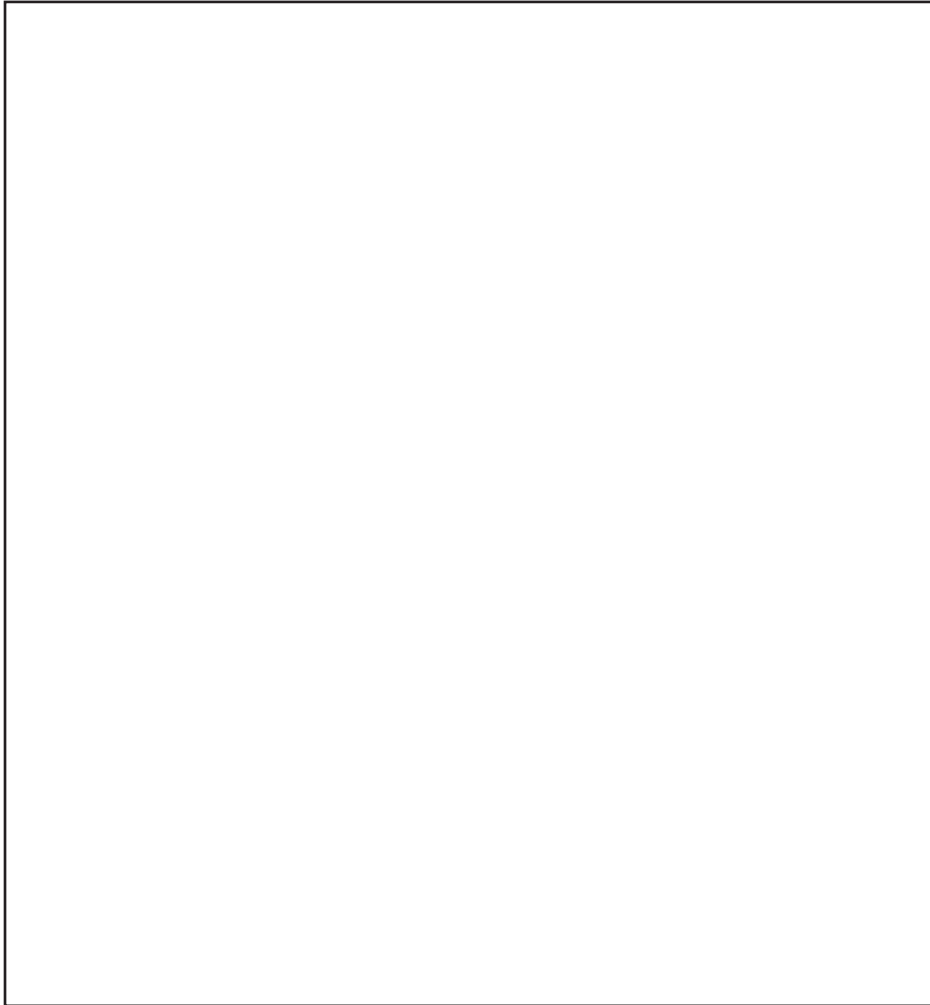
Product	Qty.	Catalog No.
Hinges		
Pull Handle or Knob		
Towel Bar		
U-Channel or Clamps		
U-Channel or Clamps		
Header		
Wipes and Seals		
Other		
Other		
Other		
Other		

Shower Door Drawing*


Save this original. Make copies for use as worksheets.

General Elevation Drawing

Additional Detail Drawing



Notes and Information:



*Section 2 (Fabrication) of This Book Details Industry Standard Methods of Drawing Frameless Shower Enclosures (Symbols, Line Values, Dimensions, etc.)

In this section of the book we will address many of the issues related to preparation and fabrication of a frameless shower enclosure. In Section 1 we addressed the importance of proper design and hardware selection. Fabrication is equally important. The best laid plans of design and hardware can go astray if the factors involved in sound mathematical fabrication are not followed.

In this section we will provide you information for the following:

- **Measuring**

- The importance of accuracy
- Defining common terms
- Proper tools
- Techniques and helpful hints

- **Calculating final glass sizes**

- How to properly illustrate common symbols, miters, cutouts, holes, etc.
- Reference charts to assist in making appropriate deductions from your measurements
- Blank "Glass Size Worksheets" to allow you to prepare glass sizes
- Three sample units for which we have determined final glass sizes based on certain hardware selection and job conditions

- **Pertinent data and guidelines to ensure proper fabrication considerations**

This section of the book is quite detailed and based extensively on mathematics. It may require that you read it more than once. When it comes time to work out glass sizes, you want to practice, practice, practice! We caution you to always double check yourself. With as many sets of glass sizes that we have assisted our customers with over the years, we make it a rule to always have a second person double check the numbers. Even the most experienced personnel can make an error when sorting through all the details required to correctly determine glass sizes for the modern frameless shower enclosure. The cost of glass makes this a sound business decision.

If this section of the book sounds intimidating, it doesn't necessarily have to be that way. With careful planning and designing, sound fabrication procedures and safe installation techniques, the continued growth of the frameless shower door hardware market can prove to be a lucrative and profitable venture for your business.



When designing and hardware selection have been completed, the next task is the proper fabrication of the enclosure. This is an detailed part of the process, and can prove to be costly if details are overlooked and mistakes are made.

As you read the Fabrication Considerations we have prepared below, you will notice a theme to our suggestions. It revolves around the importance of your initial measuring process, since actual glass sizes will be determined by your measurements. Errors will be costly.

- **Understand the industry standard of center-line measurements, and the concept of imaginary lines.** By having a good understanding of these two important components of fabrication, you will have a good foundation for being able to complete a quality installation. Center-line measurements and imaginary lines, are explained on the right side of this page.
- **The most important aspect in the entire process of your installation is measuring.** The old saying is measure twice and cut once. This is never more true than when it is applied to frameless shower installations. Measuring properly is the genesis of a successful installation. The following pages will take you through the measuring process, dealing with common terms, techniques, tools and helpful hints.
- **Double check the work you do!** This applies to all facets of fabrication, from measuring all the way through calculating glass sizes. Invest in a fractional calculator such as our Construction Master Calculator (Cat. No. CM4). This will help when working with different denominator fractions, as well as being helpful with rises and runs. The value of this calculator becomes obvious when you evaluate the cost of reordering a piece of glass due to incorrect dimensions.
- **Calculating correct glass sizes relies on good measurements, basic formulas, sound mathematical practices and double checking.** Figuring glass sizes is a combination of all of the above. Later in this section we go into great detail for calculating glass sizes. We encourage you to read these pages more than once. We think you will find the three sample enclosures for which we have calculated glass sizes as especially good "on the job training".

The Importance of Center-Line Measurements

The standard measurements used in the shower door industry are center-line measurements. The use of center-line measurements allows the manufacturer or fabricator to use a group of add-on's or deductions to figure glass and metal measurements. By using center-line measurements, the appropriate add-on's or deductions can be used for 1/4" (6mm) to 1/2" (12mm) glass by simply referring to the reference chart in this section. Many people are confused by the term center-line. Some feel it's the center-line of the curb, when in reality it's simply the center-line of the glass thickness. This means at the time of installation you will have equal amounts of glass or metal on either side of the center-line. The center-line of a shower unit can be centered on the curb, or moved to the outside/inside of the curb. The only consideration you have to account for is the width of the metal or glass that you are using. Example: You are using a 5/8" (16mm) wide U-Channel and want it flush with the outside curb of your shower unit. To figure out where the center-line of your glass will be, take half the width of the U-Channel 5/16" (8mm). This is where the center-line of your glass will be, 5/16" (8mm) in from the outside edge of the curb. Center-line simply means, if you were to draw a line on the curb, you would have equal amounts of glass or metal on either side of that line.

Understanding Imaginary Lines

Areas that don't have solid surfaces, (solid surface areas include a wall, curb, ceiling, knee wall, bench seat or raised return curb), will be illustrated with what is referred to as "imaginary lines". Imaginary lines are vertical, horizontal, angled, arched or circular reference lines that do not exist but are "floating in space". Examples: The top of the glass or header, if the glass does not go to the ceiling; The intersecting vertical lines where the front panel and the 90° return panel meet; Where the fixed panels of a neo-angled 135° unit meet the door; To show the door width and location on an inline installation; To show the height of the door if it does not go to the ceiling; The bottom location of a transom. Later in this section we show the proper illustration of a frameless shower enclosure using the correct symbols and line values based on the theory of "imaginary lines".

2-2

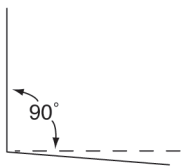
Introduction

After deciding on the design and layout of an enclosure, the next step in transforming your vision into reality is the measuring stage. **The most important aspect of installing a frameless enclosure is the accurate measurement of that opening.** If a frameless enclosure is measured incorrectly or haphazardly, the chances of failure greatly increase. One could be the best fabrication and installation artisan in the world, but if the measuring information is inaccurate, all of that skill is wasted. Consequently, if an enclosure is carefully and thoughtfully measured and the glass sizes are mathematically sound, a marginal installer has a greater chance of success.

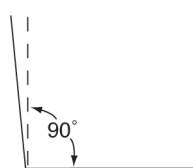
These frameless enclosures aren't like the aluminum integrated units that have a great deal of adjustability. When encountering an out of plumb/level condition, a notation must be made to ensure the proper glass sizing. If one places a level on the vertical wall and figures "It's not very far off", or "It's close enough", that person is planning for failure. There are so many variables that are out of one's control (such as poor fabrication of either glass or metal, poor installation and incorrect glass size deductions), that the importance of measuring is paramount. **This is a step you can completely control.**

Common Terms

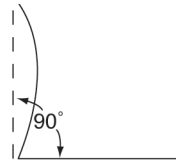
Before measuring the enclosure, it's imperative to define some terms and convey their importance. We've already referred to two important terms above. The terms "out of level" and "out of plumb" are different from one another. "Out of level" refers to the horizontal plane; whether it's a curb, sill, floor, ceiling or tub deck. "Out of plumb" refers to the vertical plane, walls, step-ups or buttresses.



OUT OF LEVEL



OUT OF PLUMB



BOWED WALL



Must Have Tools

Level
Tape Measure
Pen or Pencil

Should Have Tools

Step Stool
24" (610mm), 48" (1219mm),
and 72" (1829mm) Levels

Could Have Tools

6' (1829mm) Ladder
Contour Gauge
Angle Measuring Stick
Telescopic Measuring Stick
Construction Master Calculator (to
add and subtract fractions)
Laser Measuring Tool

One of the more misunderstood terms is the phrase "center-line". When measuring an enclosure that has an angle of any kind, bisecting points are necessary in determining angles as well as measurements. When the term "center-line" is used, that term doesn't necessarily refer to the enclosure being placed in the center of the curb. The term refers to the imaginary line that would split the thickness of the glass. The importance of using this industry-accepted term is simple. When an enclosure is initially measured, it isn't always clear what thickness of glass or width of metal will be accounted for in determining the glass size.

When the ever-ambiguous term "outside dimension" is used, it is hard to determine what the person measuring is trying to convey. Is it to the outside of the glass? Is it the outside of the metal? Is it the outside of the curb? The only time outside dimensions are appropriate is if there is an existing enclosure and outside dimensions are the only ones available.

Tools

The tools that are necessary to measure a frameless enclosure are varied. There are varying degrees of importance associated with these tools. We will prioritize these tools into three categories; tools you must have, tools you should have and tools you could have.

Measuring Process

We will now address the actual measuring of the enclosure opening. We will not be advising how to read a tape measure. Some things simply must be taken for granted. What we will relate are some of the important things to note.

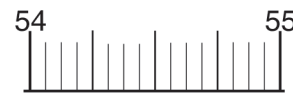
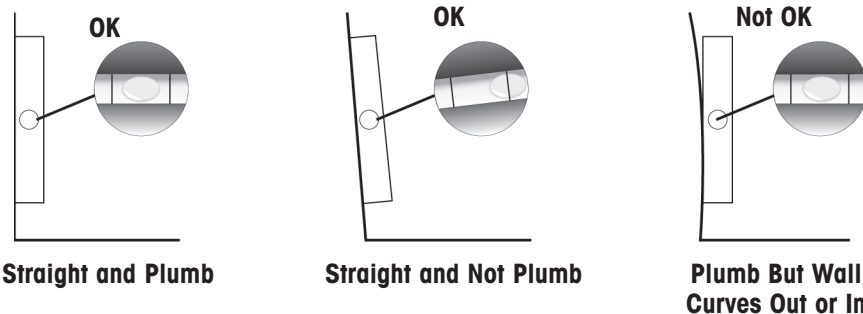
Always take complete and thorough measurements. Measure and make note of all outages no matter how seemingly insignificant. The reason we do this is to give the person figuring the glass sizes the best information possible to make glass sizing decisions. It is always better to provide more information, as opposed to less. Be sure to place a level on all mounting surfaces in order to note the various outages.

One of the most problematic situations that one can run into is the vertical wall not being straight. **A word of caution: Don't confuse the term straight with the term plumb.** A wall doesn't have to be plumb to accommodate a wall mount hinge, however, it does have to be straight. When we refer to straight, the definition would be: A straight edge or level (being used as a straight edge) is touching consistently when placed against the wall that the door will hinge off of, or there are no gaps that exceed 1/32" (1mm). We can't emphasize the importance of the previous statement enough. If the straight edge is touching at the top and bottom and there is a concave (bowed-in) condition that leaves an 1/8" (3mm) gap in the middle, and an installer is going to use 3 hinges, failure is certain. This wall could be plumb and still be a major problem. The reason that this occurs is due to the fact that hinges operate on pivot points, and the pivot points must align with one another or they will work against each other.

On bowed walls, the pivot points don't match, which causes the glass to slip slightly every time that door is opened. On the other hand, if a wall is out of plumb 1/2" (12mm), yet it's a **straight** outage, the pivot points will align with one another and the door will function properly.

Another aspect that must be addressed is the relationship between measurements and outages. A great way to double-check the accuracy of both measurements and outages, is to mathematically confirm the information by cross-checking. This process must be done on the job, otherwise the mistake (if there is one) wouldn't be found until it's too late. For example, if a door opening measures 27-1/4" (692mm) at the bottom, and one wall is plumb with the other wall leaning out of plumb 1/4" (6mm) at the top, the width measurement at the top must be 27-1/2" (698mm) (See Figure 1-A on next page). If the measurement doesn't match the outage, then a mistake has been made and it's time to re-evaluate the information until it adds up properly. If dimensions and outages are not confirmed on the job, there is no chance to re-evaluate the information back at the shop.

When measuring a neo-angle with a buttress, it is imperative to provide a plan view (overhead) drawing in order to see what the relationship is between the curb and the buttress (See Fig 1-B on page 2-6). This information is important for many reasons. Hinge choice, center-line dimensions and mitering angles on the glass are just a few of these.



**Check Measurements Twice
and Cut Once**



Helpful Hints

The following are some helpful hints to assist in measuring:

- 1) When measuring any shower that goes to the ceiling with bisecting angles involved, it's very helpful to have a plumb bob. A plumb bob allows one to get the most accurate measurements possible. After doing the layout on the curb, use the plumb bob to find the bisecting point on the ceiling or tile lid. Once the plumb bob has stopped moving and is on the bisecting point of the curb, mark the corresponding point on the ceiling or tile lid. This point will be helpful in determining the center-line dimension on the ceiling or tile lid, as well as figuring the outage (if any) on the vertical wall.
- 2) When measuring a neo-angle, it's important to confirm the fact that it's a "true" 135° neo-angle. An angle measuring stick is the most certain way to determine any specific angle. There is, however, a way to visually inspect an opening to help assure that it is a true neo-angle (See Figure 1-C on next page).
- 3) When measuring buttress heights, place a level horizontally on the buttress with a small portion of the level hanging off. Now a measurement can be taken to the bottom of the level to obtain the buttress height.
- 4) Place a level on the curb to determine if the curb is pitched properly inward for water drainage. Although this would qualify as a tile installation mistake, guess who the customer is going to call if there is water leaking from under the door? If this problem is detected prior to glass sizing, allowances can be made for the corrective product (Cat. No. SDT980 Threshold).

FIGURE 1-A

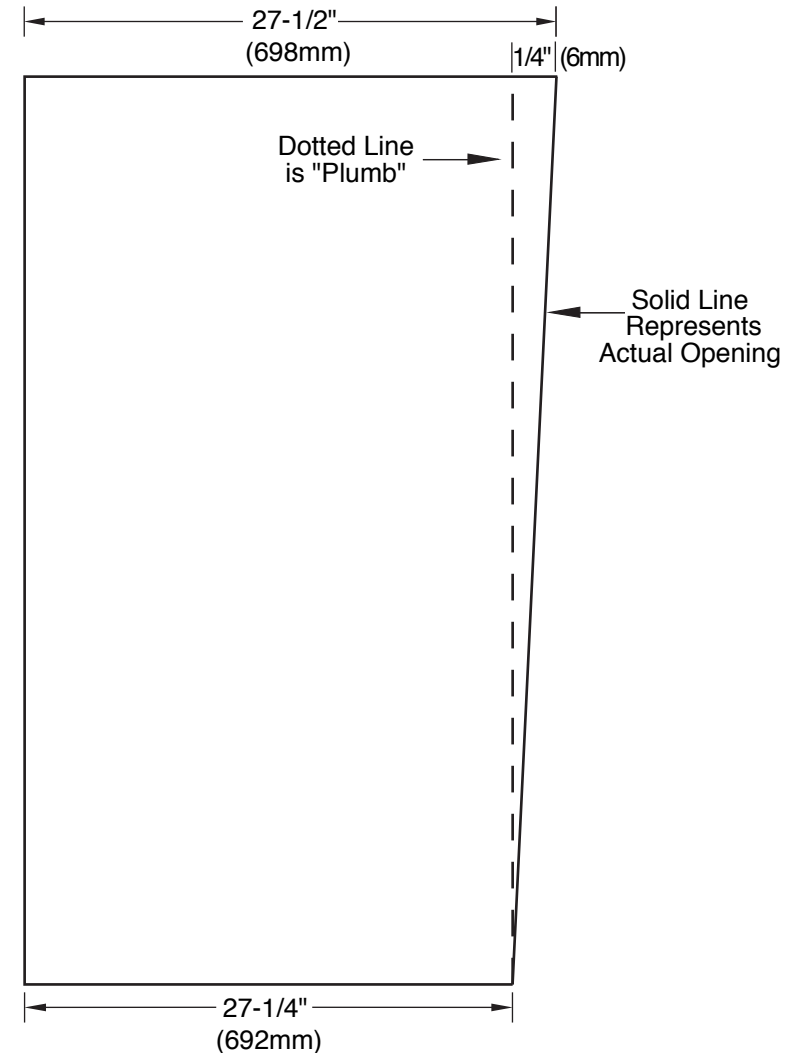


FIGURE 1-B

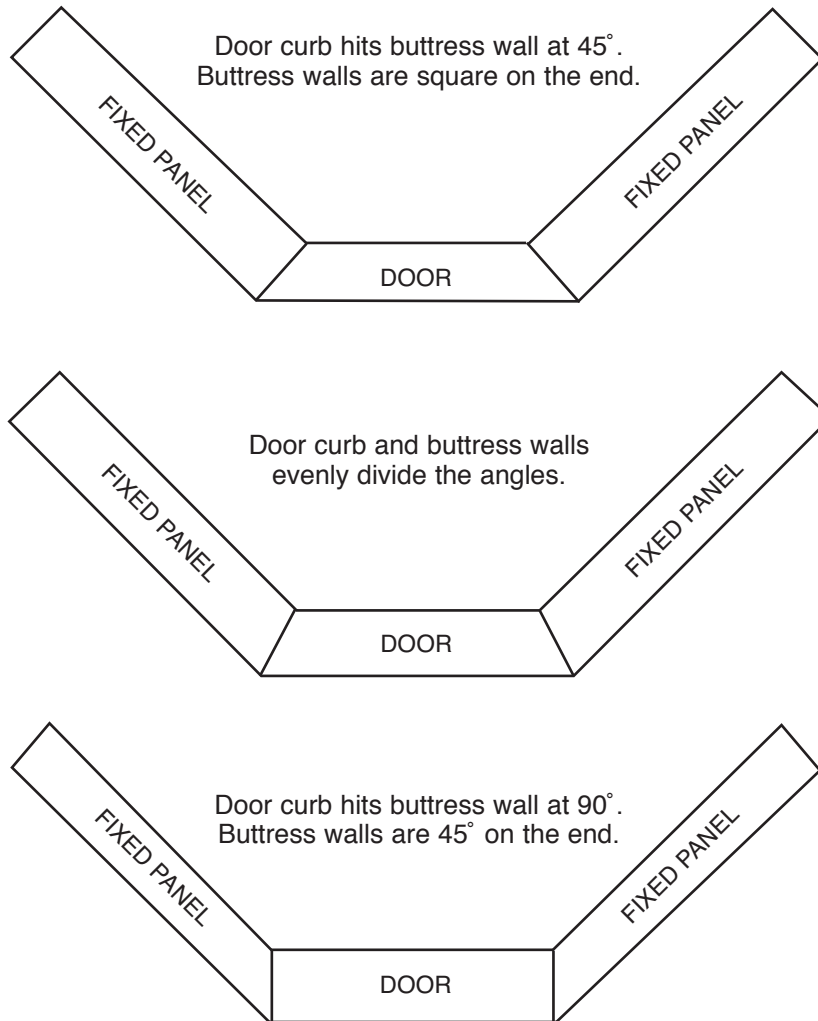
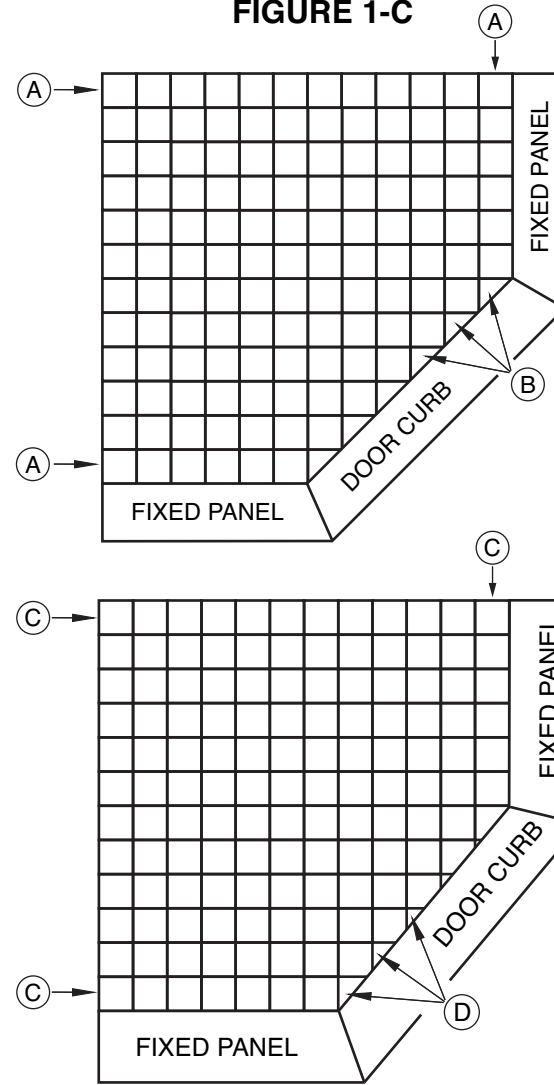


FIGURE 1-C



True 135° Neo-Angle

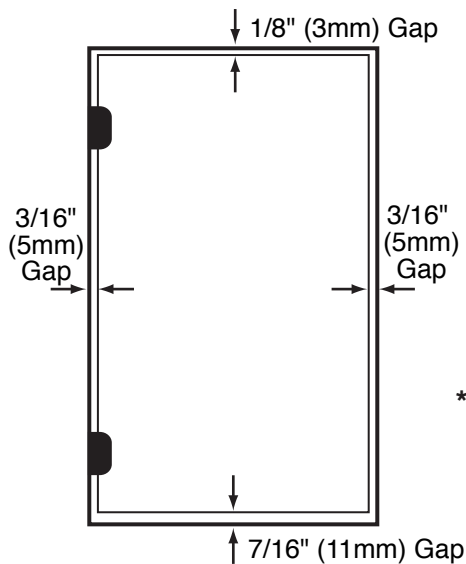
- A) Note that the tiles are square with the square corners of the enclosure.
- B) Note that the half tiles at the door curb are all exactly the same size as one another. This relationship is indicative of a true 135° neo-angle.

Not a True 135° Neo-Angle

- C) Note that the tiles are square with the square corners of the enclosure.
- D) Note that the half tiles at the door curb are not consistent in size. The fact that the tile pieces at the door curb are different in size from one another indicates an odd angle application. Templates of the angles should be made.

Pages 2-8 and 2-9 will show you a sampling of some of the more popular side mount and top or bottom pivot hinge installations. We feel that these drawings showing guidelines for clearance deductions will be very helpful to you. The balance of this section of the book provides you much greater detail for calculating actual glass sizes, but these drawings will begin making you familiar with the glass sizing process.

DOOR USING SIDE MOUNT HINGES (Floor to Ceiling)

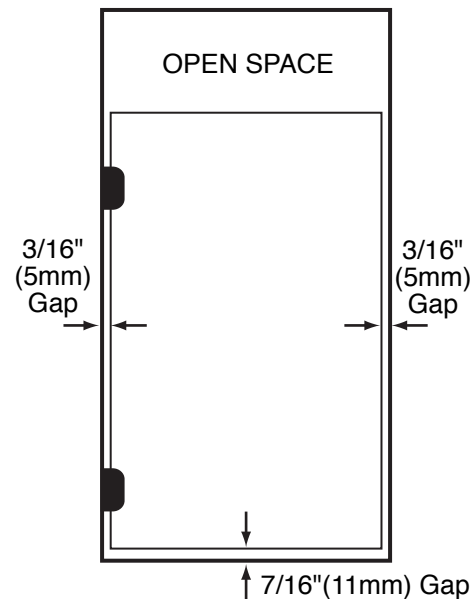


Total Glass Deductions

Door Width = Tight opening width minus 3/8" (10mm) (door swings out only, or has no vertical seals)
Door Height = Tight opening height minus 9/16" (14mm)

***For steam applications change the gap to appropriate clearance for seal being used.**

DOOR USING SIDE MOUNT HINGES (Floor to Pre-determined Height)



Total Glass Deductions

Door Width = Tight opening width minus 3/8" (10mm) (door swings out only, or has no vertical seals)
Door Height = Door top height minus 7/16" (11mm)

Warning: The clearances shown are applicable for **most** installations. For clearances using specific wipes and seals, please consult clearance charts on **pages 2-13 and 2-14**.

Note: Hinge location guidelines are shown on **page 2-15**.

Calculating Glass Sizes - Door Width and Height for Side Mount and Top or Bottom Pivot Hinges

DOOR USING TOP AND BOTTOM HINGES

For 5/16" (8mm) and 3/8" (10mm) Glass
(Floor to Ceiling)

For use with the following Hinge Series:
Prima, Cardiff, Rondo, Shell

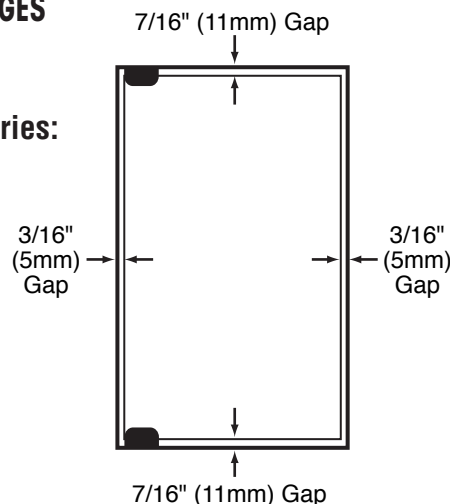
Total Glass Deductions

Door Width =

Tight opening width minus
3/8" (10mm) (door swings out only,
or has no vertical seals)

Door Height =

Tight opening height minus 7/8" (22mm)



DOOR USING TOP AND BOTTOM HINGES

For 5/16" (8mm) and 3/8" (10mm) Glass
(Floor to Pre-determined Height)

For use with the following Hinge Series:
Prima, Cardiff, Rondo, Shell

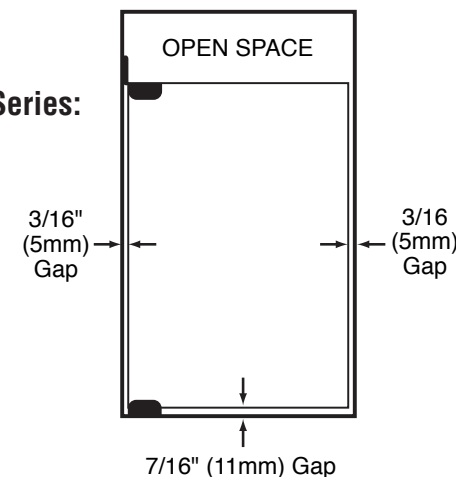
Total Glass Deductions

Door Width =

Tight opening width minus
3/8" (10mm) (door swings out only,
or has no vertical seals)

Door Height =

Door Top height minus 7/16" (11mm)



DOOR USING TOP AND BOTTOM HINGES

For 1/2" (12mm) Glass (Floor to Ceiling)

For use with: *Senior Prima Series and
Senior Cardiff only*

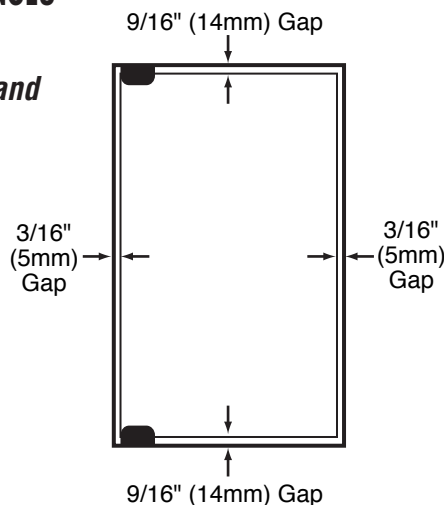
Total Glass Deductions

Door Width =

Tight opening width minus
3/8" (10mm) (door swings out only,
or has no vertical seals)

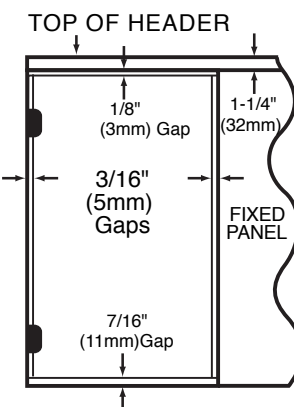
Door Height =

Tight opening height minus 1-1/8" (28mm)



DOOR USING SIDE MOUNT HINGES

(Floor to Header)
For 5/16" (8mm) and 3/8" (10mm)



Total Glass Deductions

Door Height:

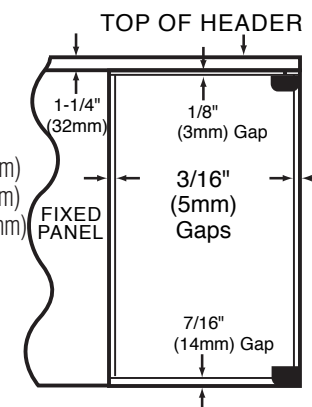
From Bottom of Header = 9/16" (14mm)
From Top of Header = 1-13/16" (46mm)
(Overall Header Height is 1-1/4" (32mm))

Door Width =

Tight opening width minus
3/8" (10mm) (door swings out only,
or has no vertical seals)

DOOR USING PRIMA, CARDIFF, SHELL OR RONDO PIVOT HINGES

(Floor to Header) For 5/16" (8mm) and
3/8" (10mm)



Warning: The clearances shown are applicable for most installations. For clearances using specific wipes and seals, please consult clearance charts on pages 2-13 and 2-14.

Note: Hinge location guidelines are shown on page 2-15.

Calculating Glass Sizes-Custom Degree Pins in Side Mount Hinges

(Applies Only to Hinges That Offer Custom Pivot Pins)

Glass-to-Glass Hinges

We recommend never using a pin of over 5° in glass-to-glass hinge applications. The reason for this is that the hinge operates off a pivot point that is inset 7/8" (22mm) from the edge of the fixed glass panel. As you increase the degree angle, the portion of the glass behind the pivot point starts to swing out proportionately with the degree of the pin offset. This causes the hinge side of the door to not align with the fixed panel. A 5° pin will project the hinge side of the door glass out approximately 3/32" (2mm). This is usually acceptable to the customer. Anything projecting out further is usually not satisfactory. On glass-to-glass applications that require an angle of more than 5°, we suggest using top and bottom pivot hinges (Prima, Cardiff, Rondo, Shell, Junior Prima, Senior Cardiff or Senior Prima Series), as the base plate can be positioned at the angle desired to align perfectly with the fixed panels.

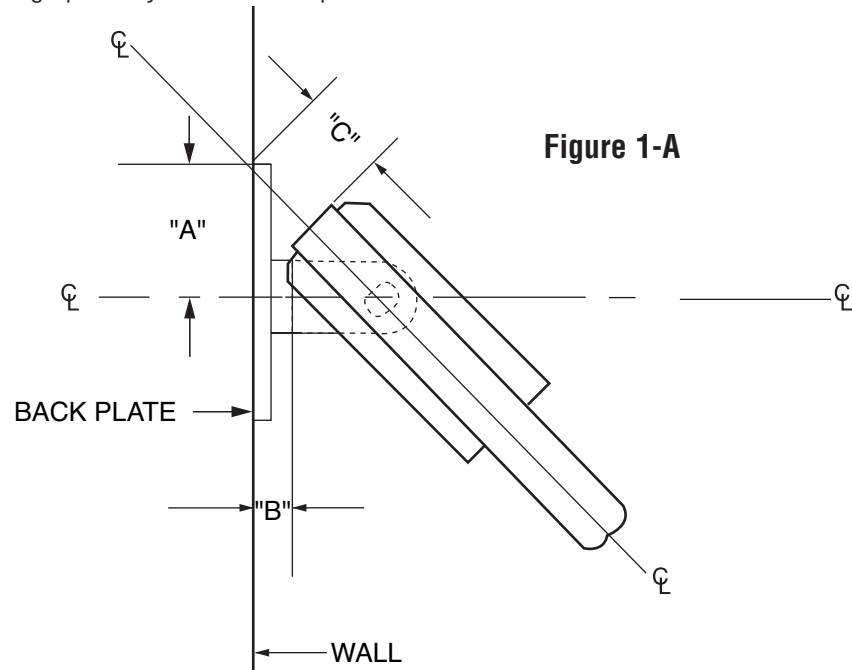


Figure 1-A

WALL MOUNT HINGES (See Figure 1-A)

Pin Degree	"A" ϕ of Glass to ϕ of Back Plate	"B" Closest Edge of Glass to Wall	"C" Glass* Deduction from ϕ
2°	1/32" (1mm)	3/16" (5mm)	13/64" (5.2mm)
5°	3/32" (2mm)	3/16" (5mm)	7/32" (5.6mm)
10°	3/16" (5mm)	13/64" (5.2mm)	15/64" (5.9mm)
15°	9/32" (7.1mm)	7/32" (5.6mm)	1/4" (6mm)
20°	3/8" (10mm)	15/64" (5.9mm)	9/32" (7.1mm)
25°	31/64" (12.3mm)	1/4" (6mm)	5/16" (8mm)
30°	19/32" (15mm)	17/64" (6.7mm)	3/8" (10mm)
35°	23/32" (18mm)	9/32" (7.1mm)	7/16" (11mm)
40°	55/64" (21.8mm)	19/64" (7.5mm)	9/16" (14mm)
45°	1-1/32" (26mm)	5/16" (8mm)	11/16" (17mm)

* This clearance off the center-line measurement is for the hinge side only. You must add the clearance desired (usually 3/16" (5mm) on the strike side to get the total door deduction.

Example: 45° pin = 11/16" (17mm) hinge side deduction
+ 3/16" (5mm) strike side deduction
= **7/8" (22mm) total deduction**

Caution: Wall Mount Hinges only swing 180° total. 90° out, which is parallel to the back plate, or 90° in, which is parallel to the back plate. If you secure a wall mount hinge on a wall that slants in 45° from the plane of the door, you will only be able to swing the door out 45° and in 135° (keep this in mind when you are planning the enclosure).

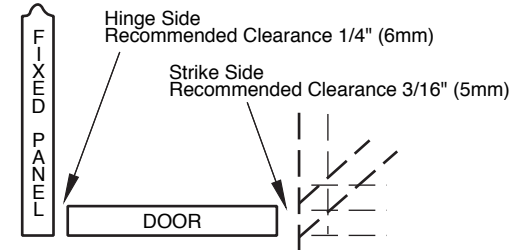
Calculating Glass Sizes - Width and Height for Glass-to-Glass Hinges

When a temperer fabricates your glass, he fabricates it to outside dimensions. However, when you measure your shower door unit, center-line measurements are used. The formulas below will help you convert from center-line measurements to outside measurements. The add-ons and deductions listed below are figured to give you the outside dimensions of your fixed panel and the width of your door. They include the recommended clearances shown in the diagrams at the right side of the page.

Width

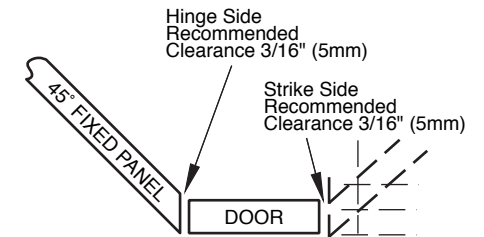
90° Glass-to-Glass Hinges with Square Cut Door and Panel

Glass Thickness	Fixed Panel	Door Panel
1/4" (6mm)	+1/8" (3mm) ■	-9/16" (14mm) ▲
5/16" (8mm)	+5/32" (4mm) ■	-19/32" (15mm) ▲
3/8" (10mm)	+3/16" (5mm) ■	-5/8" (16mm) ▲
1/2" (12mm)	+1/4" (6mm) ■	-11/16" (17mm) ▲



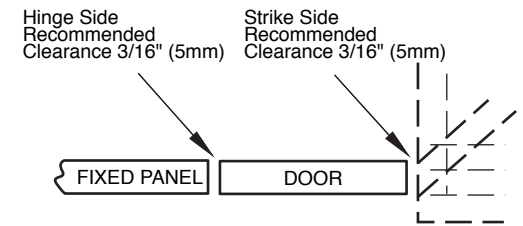
135° Glass-to-Glass Hinges with Square Cut Door and 45° Mitered Panel

Glass Thickness	Fixed Panel	Door Panel
1/4" (6mm)	+1/8" (3mm) ■	-3/8" (10mm)
5/16" (8mm)	+5/32" (4mm) ■	-3/8" (10mm)
3/8" (10mm)	+3/16" (5mm) ■	-3/8" (10mm)
1/2" (12mm)	+1/4" (6mm) ■	-3/8" (10mm)



180° Glass-to-Glass Hinges with Square Cut Door and Panel

Glass Thickness	Fixed Panel	Door Panel
1/4" (6mm)	0" ■	-3/8" (10mm)
5/16" (8mm)	0" ■	-3/8" (10mm)
3/8" (10mm)	0" ■	-3/8" (10mm)
1/2" (12mm)	0" ■	-3/8" (10mm)



- This measurement only addresses the hinge side of the fixed panel. If you have a clearance gap or glass-to-glass joint on the other side of the fixed panel, you must figure these clearances separately
- ▲ If Top or Bottom Pivot Hinges are used, 1/16" (1.5mm) should be deducted off this measurement.

Warning: The clearances shown are applicable for most installations. For clearances using specific polycarbonate seals, please consult clearance charts on [pages 2-13 and 2-14](#).

Note: Hinge location guidelines are shown on [page 2-15](#).

Height For height deductions on door, use guidelines on [pages 2-8 or 2-9](#). For height deductions on panels, use guidelines on [pages 2-16 and 2-17](#).

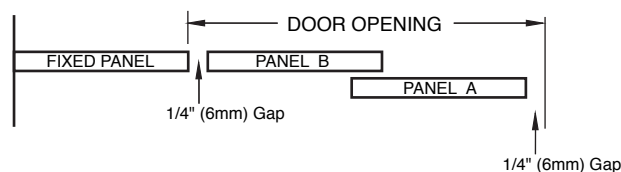
Bi-Fold Doors

(Using ZUR01 with ZUR03 for doors to swing into tub area, or using ZUR02 with ZUR05 for doors to swing out from tub area).

Recommendation: Refer to specifications for hinges used (see current Frameless Shower Door Hardware and Supplies Catalog). Remember, when doing a bi-fold door, the wall mount hinges are actually being asked to swing both panels. Three wall mount hinges may be required, while only two glass-to-glass hinges may be needed.

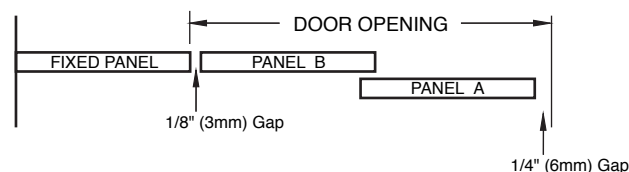
Door Widths

OPTION 1: 1/4" (6mm) gap at wall; 1/4" (6mm) gap between Panel B and Fixed Panel



Formula: Panel A = Door Opening \div Two - 3/4" (19mm)
 Panel B = Door Opening \div Two + 2¹/₁₆" (52mm)

OPTION 2: 1/4" (6mm) gap at wall; 1/8" (3mm) gap between Panel B and Fixed Panel



Formula: Panel A = Door Opening \div Two - 11/16" (17mm)
 Panel B = Door Opening \div Two + 2¹/₈" (54mm)

Door Panel Height

Option 1: Using Cat. No. P880WS for seal on the bottom of the doors, minus 5/16" (8mm) in height.

Option 2: Using Cat. No. P990WS for seal on the bottom of the doors, minus 3/8" (10mm) in height.
 (You must trim off the 45° drip rail behind the glass overlap from Panel B on Panel A).

Fixed Panel

Height

Option 1: Silicone glass in "U"-Channel on top of tub, minus 3/32" (2.4mm) in height.

Option 2: "U"-Clamp on top of tub secured through hole in glass, minus 3/16" (5mm) in height.
 Silicone gap after installation.

Width

Option 1: Silicone glass in "U"-Channel on wall, minus 1/8" (3mm) to 3/16" (5mm) in width.

Option 2: "U"- Clamp on wall secured through hole in glass, minus 3/16" (5mm) in width. Silicone gap after installation.

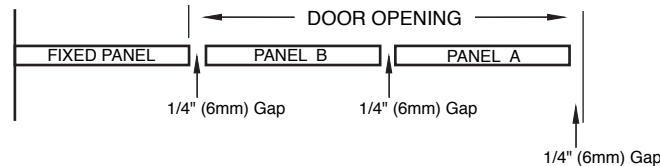
Bi-Fold Doors

(Using HYDH037 with HYDH180 for doors to swing into tub area).

NOTE: Refer to specifications for hinges used (see current Frameless Shower Door Hardware and Supplies Catalog). Remember, when doing a bi-fold door, the wall mount hinges are actually being asked to swing both panels. Hinges HYDH037 and HYDH180 must be used in conjunction with the Hydroslide Sliding Shower Door Upper Track and (1) HYD01 Sliding Door Hanger.

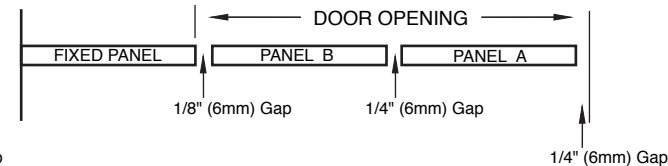
Door Widths

OPTION 1: 1/4" (6mm) gap at wall; 1/4" (6mm) gap between Panel B and Fixed Panel



Formula: Panel A = Door Opening ÷ Two - 1-9/16" (40mm)
 Panel B = Door Opening ÷ Two + 7/8" (22mm)

OPTION 2: 1/4" (6mm) gap at wall; 1/8" (3mm) gap between Panel B and Fixed Panel



Formula: Panel A = Door Opening ÷ Two - 1-1/2" (38mm)
 Panel B = Door Opening ÷ Two + 15/16" (24mm)

Door Panel Height

The overall height is considered from the base to the top of the Hydroslide header. The glass height deduction from the overall height is 2-5/8" (90mm). This deduction allows for a 7/16" clearance under the bi-folding doors.



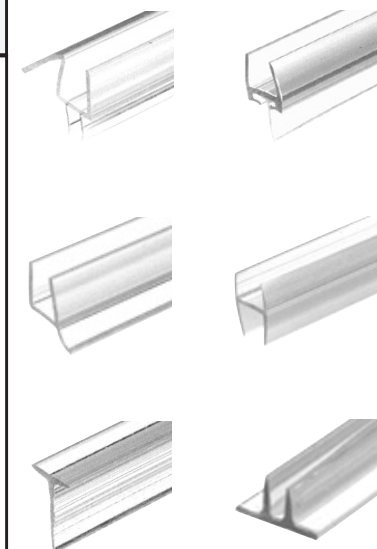
C.R. Laurence Company has established a Technical Sales Department to assist our customers. If you have any questions concerning shower door hardware or any product from CRL, please contact us at:

**(800) 421-6144 in the U.S.,
or (877) 421-6144 from Canada,
and ask for Extension 7740**

Calculating Glass Sizes - Wipes and Seals Door for Top and Bottom

Recommended Clearances for Clear Wipes and Seals

Catalog No.	Description	Glass Thickness	Clearance Without SDT980 Threshold	Clearance With SDT980 Threshold
P450BR	Polycarbonate Wipe	5/16" (8mm)	7/16" (11mm)	11/16" (17mm) ■
P500BR	Polycarbonate Wipe	3/8" (10mm)	7/16" (11mm)	11/16" (17mm) ■
P660BR	Polycarbonate Wipe	1/2" (12mm)	1/2" (12mm)	3/4" (19mm) ■
P914WS	Wipe with Drip Rail	1/4" (6mm)	3/8" (10mm)	5/8" (16mm) ■
P956WS	Wipe with Drip Rail	5/16" (8mm)	3/8" (10mm)	5/8" (16mm) ■
P990WS	Wipe with Drip Rail	3/8" (10mm)	7/16" (11mm)	11/16" (17mm) ■
P912WS	Wipe with Drip Rail	1/2" (12mm)	7/16" (11mm)	11/16" (17mm) ■
P14WS	PVC Seal and Wipe	1/4" (6mm)	3/16" (5mm)	7/16" (11mm) ■
P770WS	PVC Seal and Wipe	5/16" (8mm)	3/16" (5mm)	7/16" (11mm) ■
P880WS	PVC Seal and Wipe	3/8" (10mm)	1/4" (6mm)	1/2" (12mm) ■
P250HW	Multi-Purpose "H" Wipe	1/4" (6mm)	5/16" (8mm)	9/16" (14mm) ■
P312HW	Multi-Purpose "H" Wipe	5/16" (8mm)	5/16" (8mm)	9/16" (14mm) ■
P375HW	Multi-Purpose "H" Wipe	3/8" (10mm)	5/16" (8mm)	9/16" (14mm) ■
P500HW	Multi-Purpose "H" Wipe	1/2" (12mm)	5/16" (8mm)	9/16" (14mm) ■
SDTW	Glue-On "T" Wipe	5/16" (8mm) to 1/2" (12mm)	7/16" (11mm)	11/16" (17mm) ■ ▲
SDTDF	Glue-On Double Fin Wipe	5/16" (8mm) to 1/2" (12mm)	5/16" (8mm)	7/16" (11mm) ▲
SDTB	Glue-On Bulb Seal	5/16" (8mm) to 1/2" (12mm)	3/16" (5mm)	7/16" (11mm) ▲
S1LB	Translucent Silicone Bulb Seal	5/16" (8mm) to 1/2" (12mm)	3/16" (5mm)	7/16" (11mm) ▲

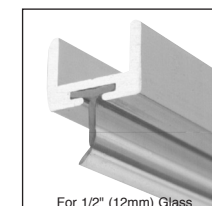


Recommended Clearances for Aluminum Channel Wipes

Catalog No.	Description	Glass Thickness	Clearance Without SDT980 Threshold	Clearance With SDT980 Threshold
SDW38BA	Brite Silver Anodized	3/8" (10mm)	9/16" (14mm) ●	13/16" (21mm) ■
SDW38BGA	Brite Gold Anodized	3/8" (10mm)	9/16" (14mm) ●	13/16" (21mm) ■
SDW12BA	Brite Silver Anodized	1/2" (12mm)	9/16" (14mm)	13/16" (21mm) ■
SDW12BGA	Brite Gold Anodized	1/2" (12mm)	9/16" (14mm)	13/16" (21mm) ■



SDW38 Series



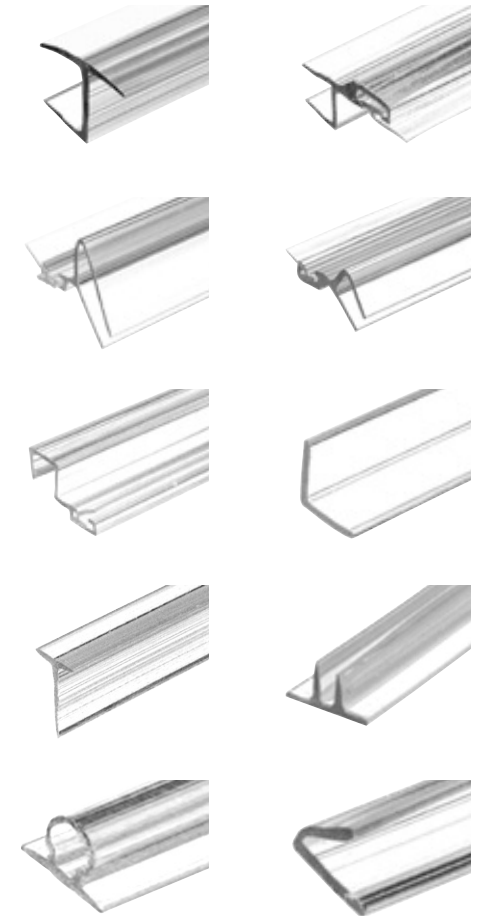
SDW12 Series

- If used with Prima, Cardiff, Rondo or Shell Hinges, Vinyl T-Wipe will need to be trimmed to allow 7/16" (11mm) clearance
- Will not work with Top or Bottom Pivot Hinges. These hinges require a 7/32" (5.5mm) to 1/4" (6mm) seal above the Threshold. See Catalog Numbers SDTDF or SDTB.
- ▲ These Wipes and Seals are adhered to the edge of the glass with Clear VHB Double Sided Adhesive Tape. The VHB Tape comes in two thicknesses (.020" (0.5mm) and .040" (1mm)). These two thicknesses allow you some adjustment when the seals are too tight or too loose.

Calculating Glass Sizes - Door Seals for Hinge and Strike Jamb

Recommended Clearances for Strike Jamb and Seals

Catalog No.	Description	Glass Thickness	Recommended Clearance
P180SDJ	180° Polycarbonate for Strike and Door Jamb	3/8" (10mm)	3/16" (5mm)
P140HJ	Polycarbonate "h" Jamb	1/4" (6mm)	3/16" (5mm)
P516HJ	Polycarbonate "h" Jamb	5/16" (8mm)	3/16" (5mm)
P380HJ	Polycarbonate "h" Jamb	3/8" (10mm)	3/16" (5mm)
P120HJ	Polycarbonate "h" Jamb	1/2" (12mm)	3/16" (5mm)
PCC8	"Y" Inline Panel Seal for 180°	5/16" (8mm)	3/16" (5mm)
PCC10	"Y" Inline Panel Seal for 180°	3/8" (10mm)	3/16" (5mm)
PCC12	"Y" Inline Panel Seal for 180°	1/2" (12mm)	3/16" (5mm)
PCK8	"Y" Inline Panel Seal with Vinyl for 180°	5/16" (8mm)	3/16" (5mm)
P250HW	Multipurpose "H"-Wipe	1/4" (6mm)	3/16" (5mm) ●
P312HW	Multipurpose "H"-Wipe	5/16" (8mm)	3/16" (5mm) ●
P375HW	Multipurpose "H"-Wipe	3/8" (10mm)	3/16" (5mm) ●
P500HW	Multipurpose "H"-Wipe	1/2" (12mm)	3/16" (5mm)
P045SJ	135° Polycarbonate Strike Jamb	5/16" (8mm)	3/16" (5mm)
P135SJ	135° Polycarbonate Strike Jamb	3/8" (10mm)	3/16" (5mm)
P045DJ	135° Polycarbonate Door Jamb	5/16" (8mm)	3/16" (5mm)
P135DJ	135° Polycarbonate Door Jamb	3/8" (10mm)	3/16" (5mm)
PCA6	Polycarbonate "U" with Leg for 90°	1/4" (6mm)	3/16" (5mm)
PCA8	Polycarbonate "U" with Leg for 90°	5/16" (8mm)	3/16" (5mm)
PCJ8	Polycarbonate "U" with Leg and Seal for 90°	3/8" (10mm)	3/16" (5mm)
P090SJ	90° Polycarbonate Strike Jamb	3/8" (10mm)	3/16" (5mm)
P12LJ	Polycarbonate Angle Jamb	3/8" (10mm), 1/2" (12mm)	3/16" (5mm)
P14WS	Dual Durometer PVC Seal and Wipe	1/4" (6mm)	3/16" (5mm) ★
P770WS	Dual Durometer PVC Seal and Wipe	5/16" (8mm)	3/16" (5mm) ★
P880WS	Dual Durometer PVC Seal and Wipe	3/8" (10mm)	1/4" (6mm) ★
SDTL	Glue-On Clear "L" Seal	5/16" (8mm) to 1/2" (12mm)	3/16" (5mm) ▲
SDTNL	Glue-On Clear "L" Seal	5/16" (8mm) to 1/2" (12mm)	3/16" (5mm) ▲
SDTW	Glue-On "T" Wipe	5/16" (8mm) to 1/2" (12mm)	7/16" (11mm) ▲
SDTJ	Glue-On Small Bulb Seal	5/16" (8mm) to 1/2" (12mm)	5/32" (4mm) Max. ▲
SDTB	Glue-On Large Bulb Seal	5/16" (8mm) to 1/2" (12mm)	7/32" (5.5mm) Max. ▲
SDTS	Glue-On "V" Seal	5/16" (8mm) to 1/2" (12mm)	1/4" (6mm) Max. ▲◆
SDTDF	Glue-On Double Fin Wipe	5/16" (8mm) to 1/2" (12mm)	5/16" (8mm) Max. ▲



- This vinyl is configured like a capital H. When used as a jamb, the soft front leg must be cut off to make it look like a lower case h.
- ★ Not recommended for glass-to-glass sealing except when used with Zurich Bi-fold Hinge, where the glass has an overlap and the curved lip seals against the other side of glass.
- ▲ These wipes and seals are glued to the edge of the glass with Clear Silicone Sealant or Clear VHB Double-Sided Adhesive Tape. The VHB Tape comes in two thicknesses (.020" (.05mm) and .040 (1mm). These two thicknesses allow you some adjustment when the seals are too tight or too loose.
- ◆ "V" Seal is designed to only work on one-way doors. Do not use on two-way doors.

C.R. Laurence Co., Inc. crlaurence.com For technical assistance in the United States call toll free (800) 421-6144; from Canada call toll free (877) 421-6144; Outside the U.S. and Canada call (323) 588-1281. Ask for Tech Sales at Extension 7740. Toll free fax (800) 458-7496.

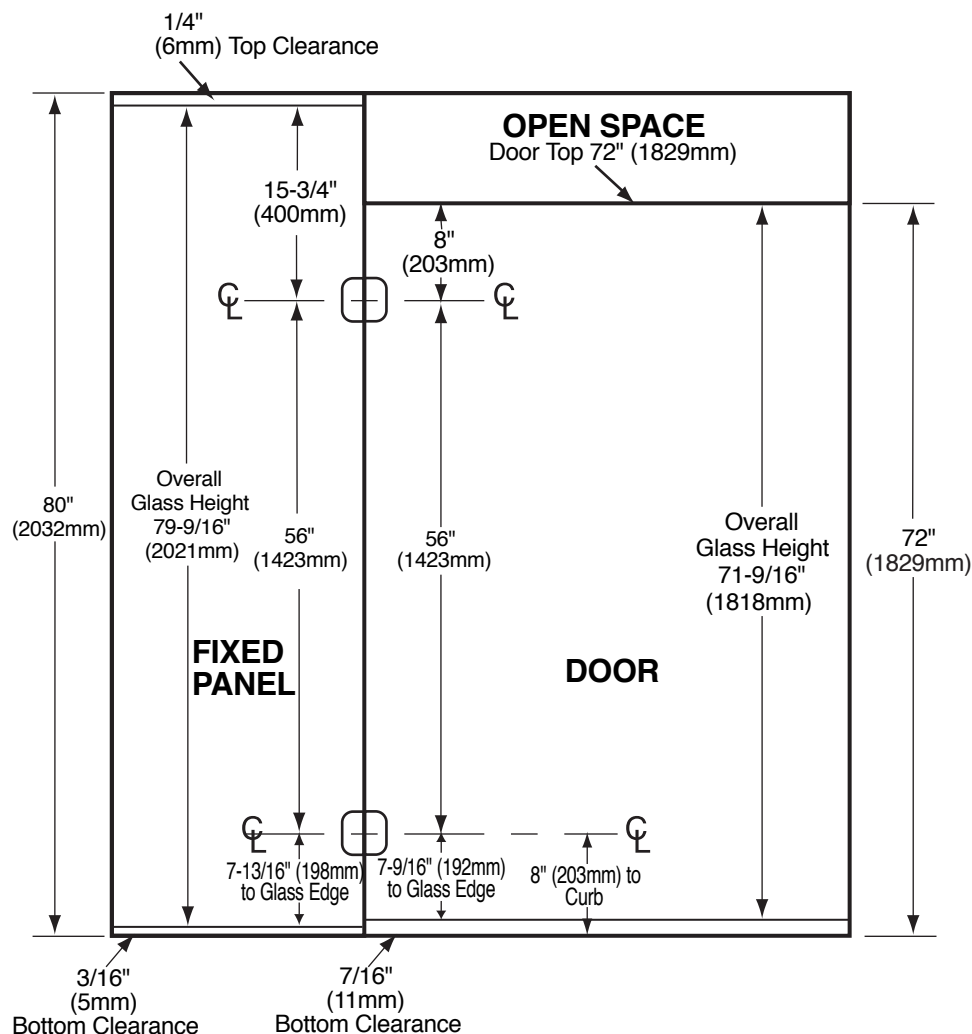
Hinge Location Guidelines

For wall mount and glass-to-glass hinges, C.R. Laurence recommends a distance of 8" (203mm) to the center of the cutout, for both the top and bottom hinges on two hinge doors. If a third hinge is used, it should be centered between the top and bottom hinges. To be perfectly symmetrical within the opening you are working with, you can deduct the clearance gap from the 8" (203mm), and use the remainder as the distance to the center of the cutout (ie:clearance gap at the bottom of door is 7/16" (11mm), thus the distance to the center of cutout is 7-9/16" (192mm). For glass-to-glass installations consideration must be given to different clearance gaps for both the door and the fixed panel (ie:clearance gap under the door is 7/16" (11mm), so the distance to the center of the cutout is 7-9/16" (192mm), clearance gap under fixed panel is 3/16" (5mm), so the distance to the center of the cutout is 7-13/16" (198mm).

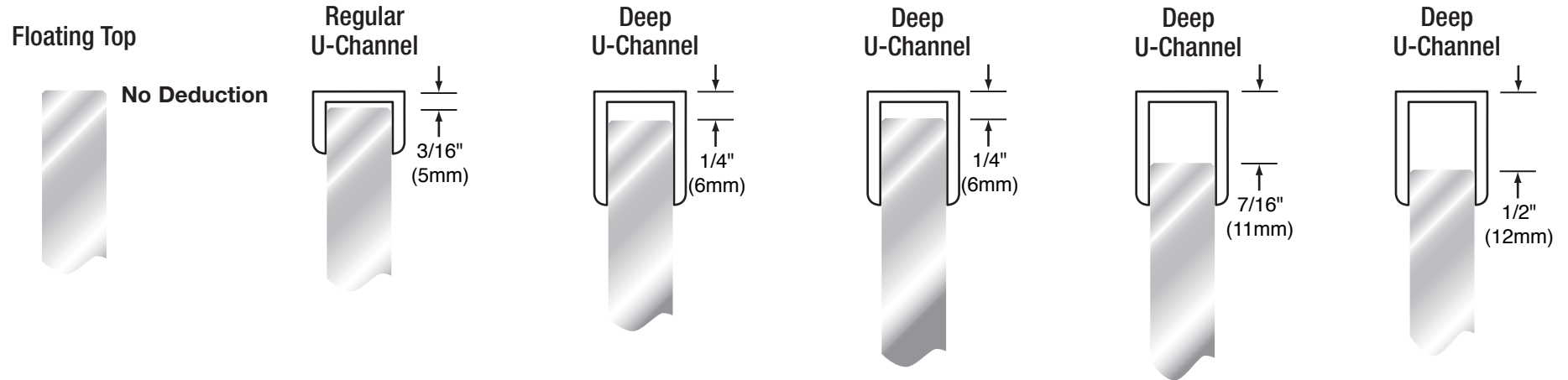
For glass-to-glass hinge applications, the dimension between the cutouts on both the door and fixed panel must be identical. After final dimensions are calculated, double check your work by adding the cutout dimensions together to get the overall glass height.

For top and bottom pivot hinge installations (Prima, Cardiff, Rondo, Shell, Junior Prima, Senior Cardiff and Senior Prima), the Top or Bottom Mount and Glass-to-Glass styles (01 and 02 models) offer a choice of templates that allow you to edge mount the hinges at the top and bottom of the door, or actually inset the hinges toward the center of the door any distance you desire. Wall Mount and Inline Panel Mount styles (03 and 04 models) offer a template restricted to edge mounting only. Many customers prefer using the inset template for 01 and 02 models because it will allow a full edge of glass to run from top to bottom of the door, thus allowing a seal to run top to bottom. If using the inset template for the 01 or 02 models, we suggest a guideline of 2-5/8" (67mm) where the template reads "Distance to Wall Varies". This leaves approximately a 1" (25mm) strip of glass in the corners to apply the seal completely from top to bottom.

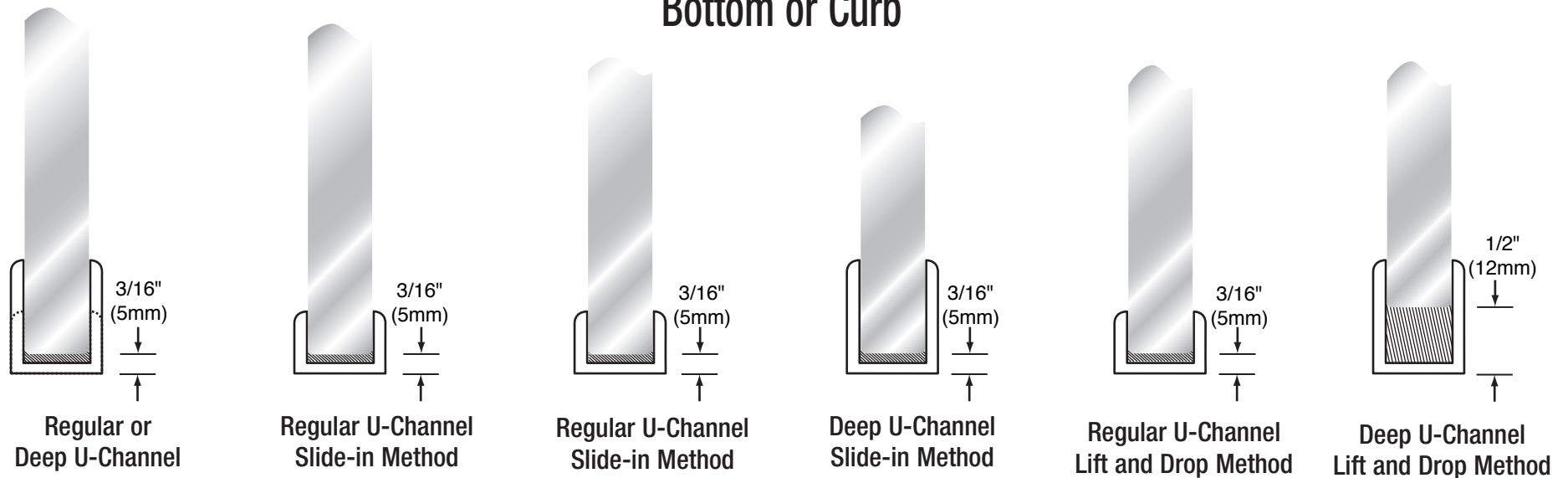
Example of Matching Fixed Panel and Door Cutouts for Glass-to-Glass Hinges



Top or Ceiling



Bottom or Curb



Total Height Deduction=3/16" (5mm)

Total Height Deduction=3/8" (10mm)

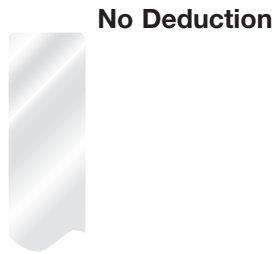
Total Height Deduction=7/16" (11mm)

Total Height Deduction=5/8" (16mm)

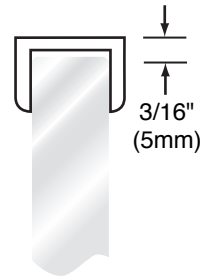
Total Height Deduction=1" (24mm)

Top or Ceiling

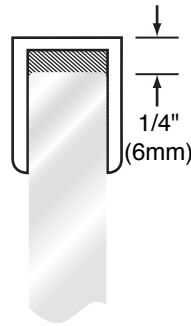
Floating Top



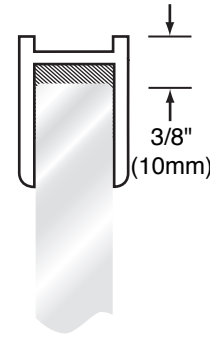
Regular U-Channel



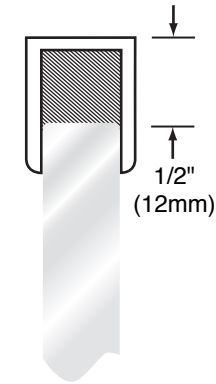
Deep U-Channel



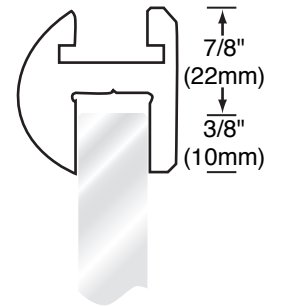
Dry Glaze Channel



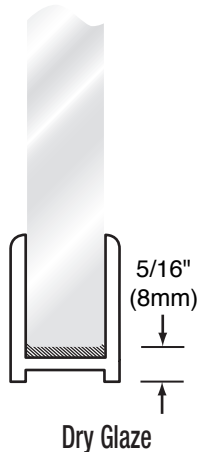
Deep U-Channel



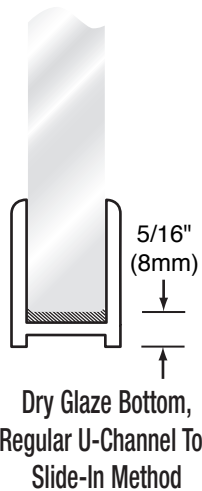
Deluxe Header



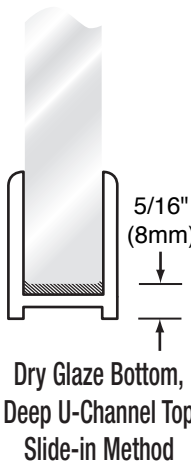
Bottom or Curb



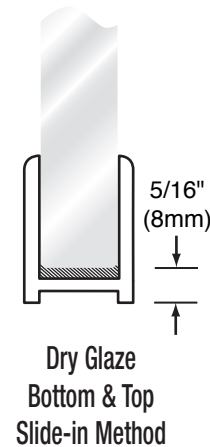
Total Height Deduction=
5/16" (8mm)



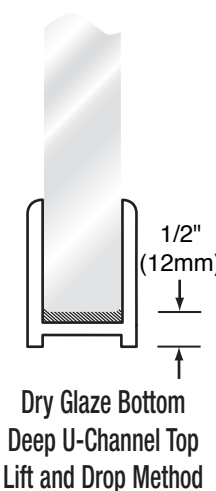
Total Height Deduction=
1/2" Total (12mm)



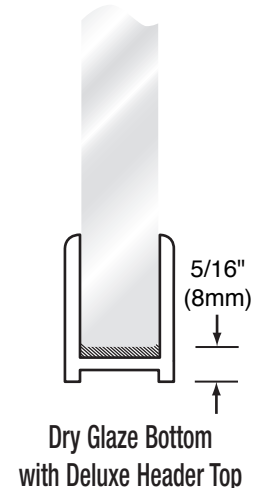
Total Height Deduction=
9/16" Total (14mm)



Total Height Deduction=
11/16" (17mm)



Total Height Deduction=
1" (25mm)



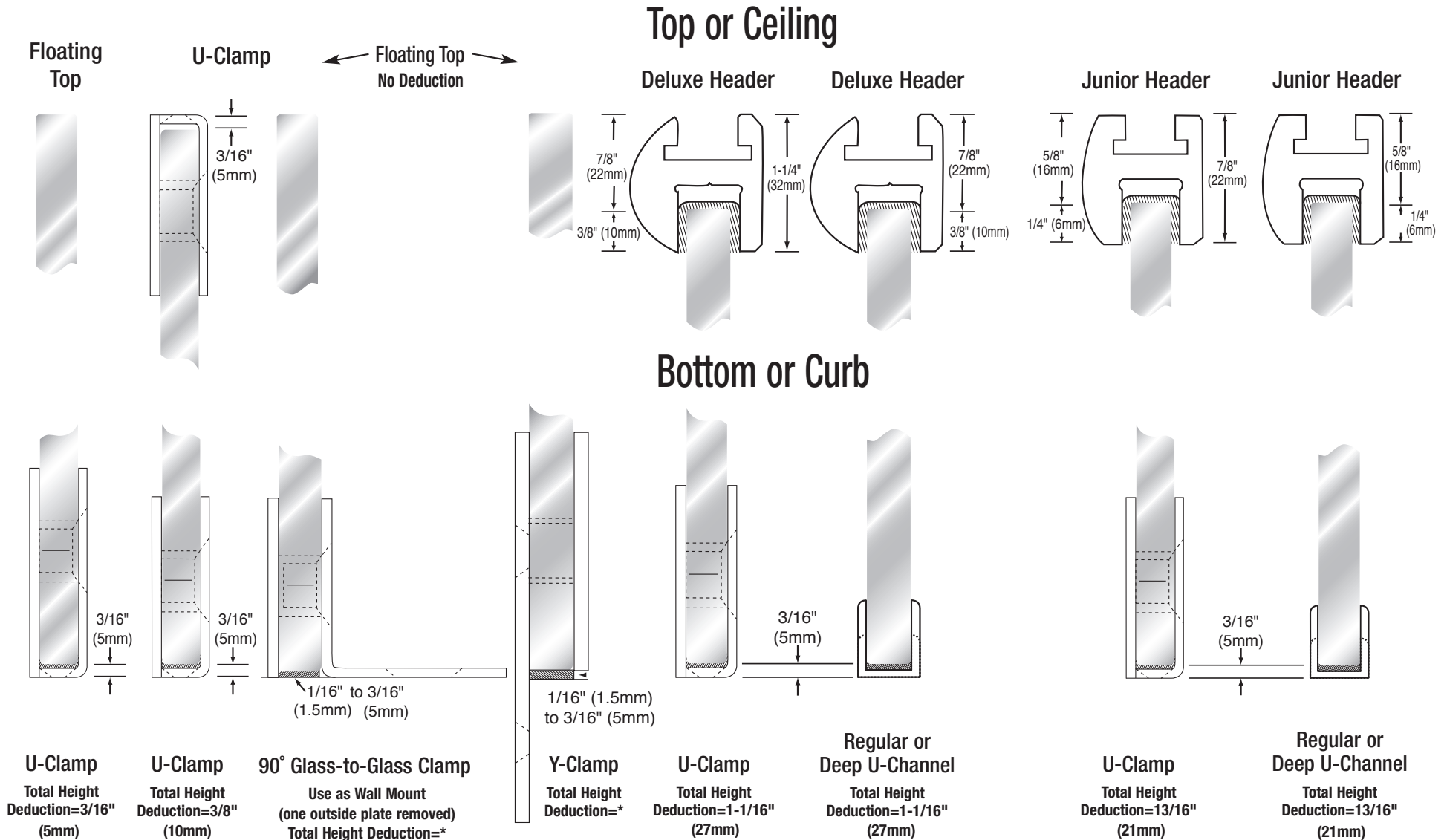
Total Height Deduction=
1-3/16" (30mm)



C.R. LAURENCE CO., INC.
PROFESSIONAL QUALITY

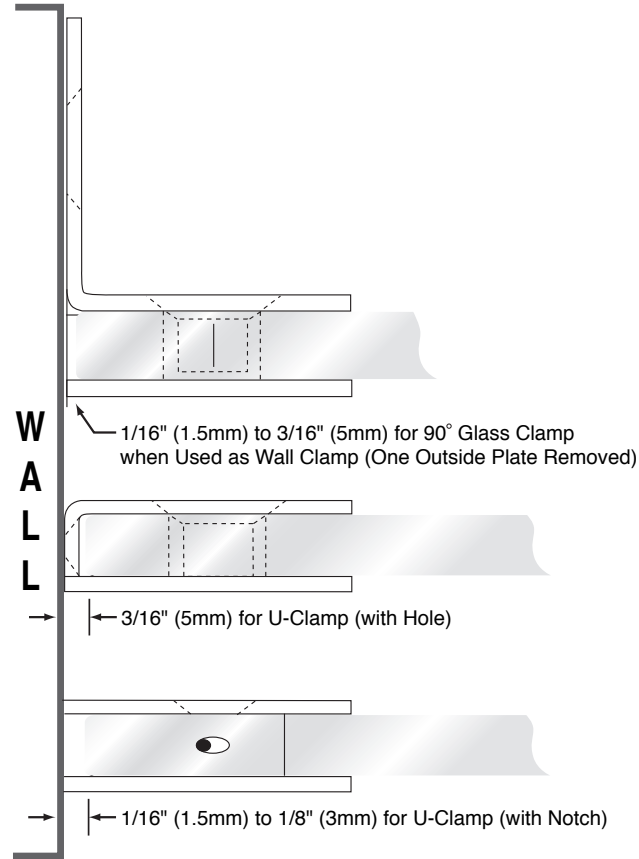
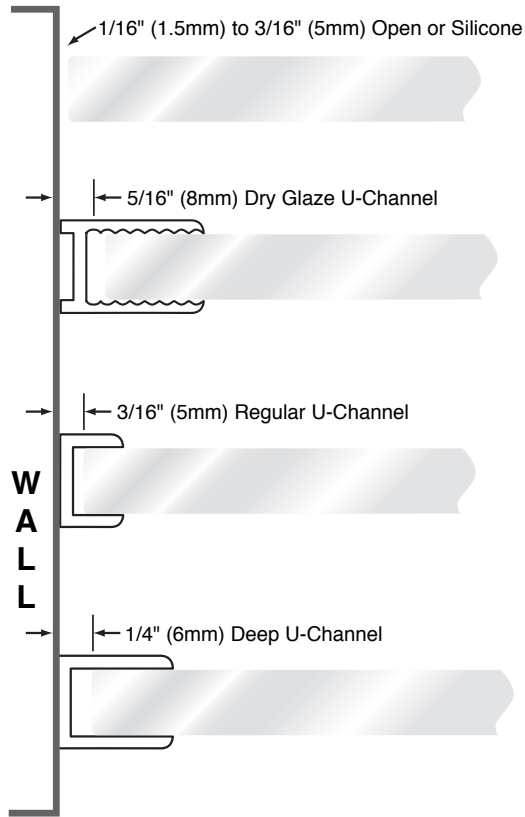
C.R. Laurence Company has established a Technical Sales Department to assist our customers. If you have any questions concerning shower door hardware or any product from CRL, please contact us at:
(800) 421-6144 in the U.S.,
or (877) 421-6144 from Canada,
and ask for Extension 7740

Calculating Glass Sizes - Fixed Panel Clearance Guidelines

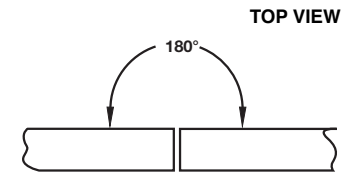
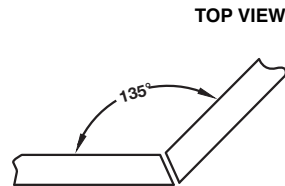
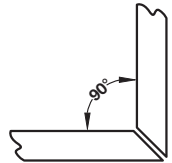
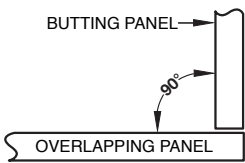


Note: Clamp location guidelines are shown on page 2-21. *Specialty clamps are illustrated with Floating Tops. If using a clamp on top increase the deduction by 3/16" (5mm) to get total height deduction.

Wall Side Clearances



GLASS-TO-GLASS SIDE CLEARANCES (SEE PAGE 2-19)



Note: Clamp location guidelines are shown on **page 2-21**.

Calculating Glass Sizes - Calculations for Glass-to-Glass Silicone Joints

During the course of planning and designing frameless shower doors, you will eventually come across a 90°, 135° or 180° unit. The vertical joints of these units are usually glued together with silicone sealant to achieve structural strength and a waterproof seam. Total recommended gap between the two glass panels is 1/16" (1.5mm). **The add-on's and deductions shown below have already allowed for a 1/16" (1.5mm) clearance gap. Do not deduct again.** Glass sizes for shower doors are figured with center-line measurements. The charts below list the add-ons or deductions from the center-line measurements on the four most popular joint designs.

90° Butting and Overlapping Panels

Glass Thickness	Butting Panel*	Overlapping Panel*	TOP VIEW
1/4" (6mm)	-3/16" (5mm)	+1/8" (3mm)	
5/16" (8mm)	-7/32" (5.5mm)	+5/32" (4mm)	
3/8" (10mm)	-1/4" (6mm)	+3/16" (5mm)	
1/2" (12mm)	-5/16" (8mm)	+1/4" (6mm)	

135° with 22-1/2° Mitered Panels

Glass Thickness	Both Panels*	TOP VIEW
1/4" (6mm)	+1/32" (1mm)	
5/16" (8mm)	+3/64" (1.2mm)	
3/8" (10mm)	+1/16" (1.5mm)	
1/2" (12mm)	+3/32" (2.4mm)	

90° with 45° Mitered Panels

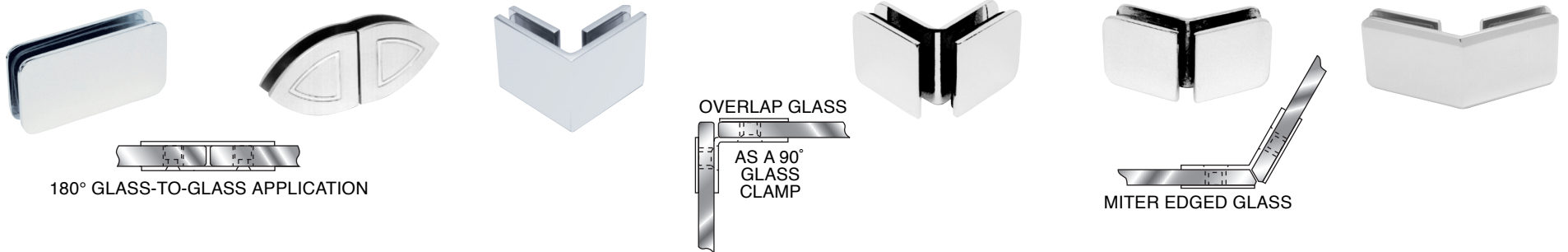
Glass Thickness	Both Panels*	TOP VIEW
1/4" (6mm)	+3/32" (2.4mm)	
5/16" (8mm)	+1/8" (3mm)	
3/8" (10mm)	+5/32" (4mm)	
1/2" (12mm)	+7/32" (5.5mm)	

180° with Square Cut Glass Panels

Glass Thickness	Both Panels*	TOP VIEW
1/4" (6mm)	-1/32" (1mm)	
5/16" (8mm)	-1/32" (1mm)	
3/8" (10mm)	-1/32" (1mm)	
1/2" (12mm)	-1/32" (1mm)	

* These add-ons or deductions have already allowed for a 1/16" (1.5mm) clearance gap (do not deduct again).

NOTE: Above measurements address only one joint. Clearance gap or additional glass joints on the other side of the panel must be figured separately.

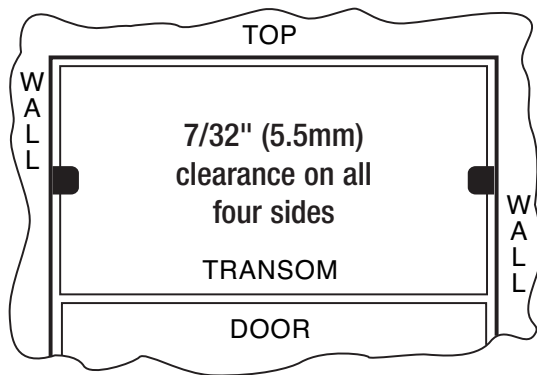


Glass-to-Glass Clamps give additional strength to siliconed glass-to-glass joints by providing a mechanical attachment to the glass. In most cases the above glass-to-glass clearances remain the same when using clamps. Consult the individual template of the clamp you are using to assure correct deductions. In most cases, the glass panels will require a hole to accommodate the clamp. See the template section for hole size and exact location. For Glass Clamp location guidelines see **page 2-21**.

Calculating Glass Sizes - Moveable Transom Clamps and Hinges

WALL-TO-WALL INSTALLATION

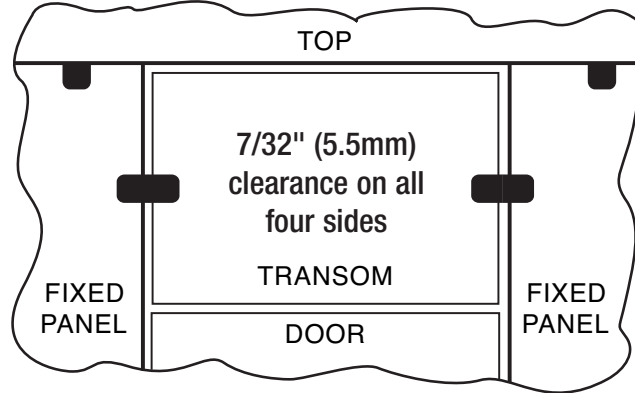
Using Cat. No. GCB186 Clamps on both sides



Maximum Width = 30" (762mm) Maximum Height = 12" (305mm) Cutout Template on page 4X-30

GLASS-TO-GLASS INSTALLATION

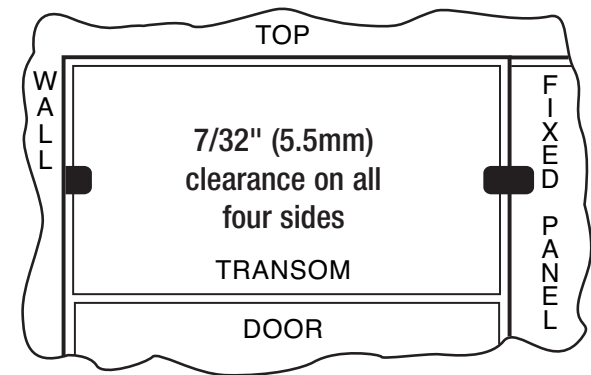
Using Cat. No. GCB188 Clamps on both sides



Maximum Width = 30" (762mm) Maximum Height = 12" (305mm) Cutout Template on page 4X-32

WALL-TO-GLASS INSTALLATION

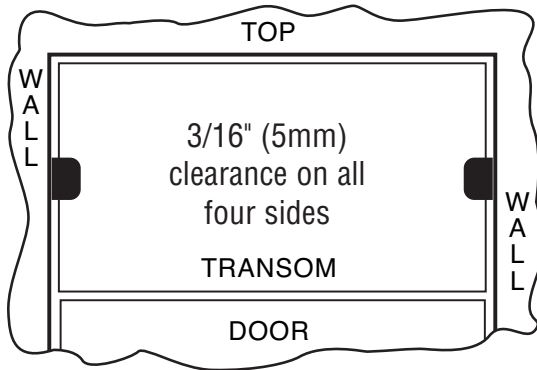
Using one Cat. No. GCB186 and one Cat. No. GCB 188 Clamp



Maximum Width = 30" (762mm) Maximum Height = 12" (305mm) Cutout Templates on pages 4X-30 and 4X-32

WALL-TO-WALL INSTALLATION

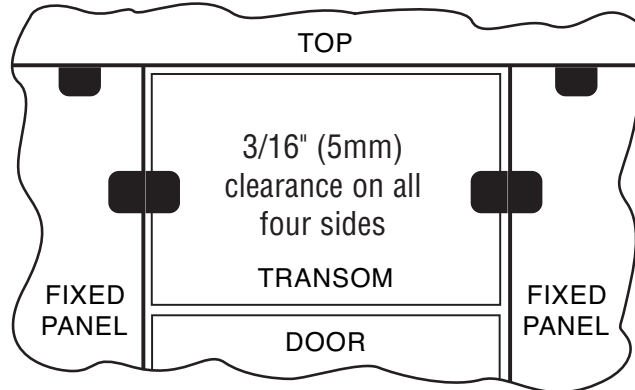
Using Cat. No. PPH01 Prima Hinge on both sides



Maximum Width = 36" (914mm) Maximum Height = 24" (610mm) Cutout Template on page 4G-7

GLASS-TO-GLASS INSTALLATION

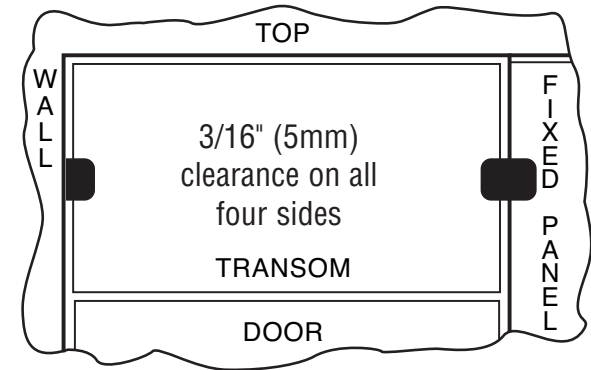
Using Cat. No. PPH02 Prima Hinges on both sides



Maximum Width = 36" (914mm) Maximum Height = 24" (610mm) Cutout Template on page 4G-13

WALL-TO-GLASS INSTALLATION

Using one Cat. No. PPH01 and one Cat. No. PPH02 Prima Hinge



Maximum Width = 36" (914mm) Maximum Height = 24" (610mm) Cutout Templates on pages 4G-7 and 4G-13

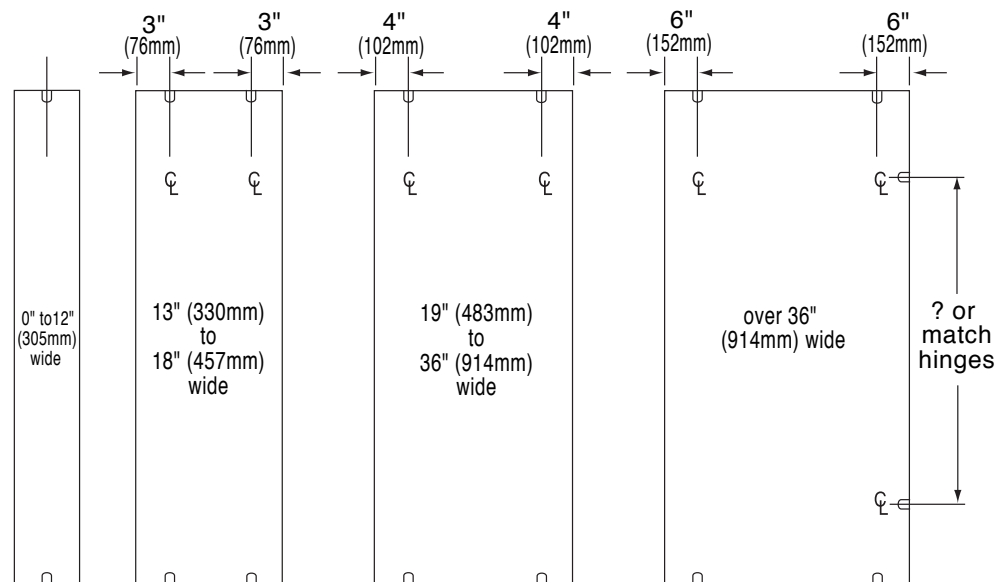
Clamp Location Guidelines

Depending on the design and symmetry of the enclosure, clamps can be positioned in a variety of locations. However, you should never place the design above the structural strength of the unit. With a little bit of planning most installations allow you to accomplish both.

TOP AND BOTTOM PLACEMENT

In most clamp installations the top or bottom placement of the clamps fall under these recommended guidelines:

Panel Width	Clamp Location (to center-line of hole)
0 to 12" (305mm)	Location depends on installation conditions, but at least one clamp is always recommended.
13" (330mm) to 18" (457mm)	Two clamps recommended, located 3" (76mm) in from each vertical edge.
19" (483mm) to 36" (914mm)	Two clamps recommended, located 4" (102mm) in from each vertical edge.
Over 36" (914mm)	Two clamps recommended, located 6" (152mm) in from each vertical edge.

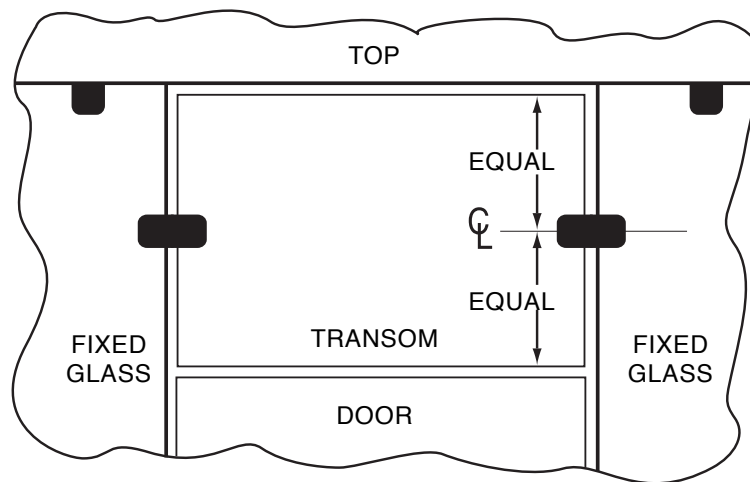


Side Placement

Side placement of the clamps depends on installation conditions, but most of the time the placement location matches hinges or some other hardware to achieve symmetry. At least one clamp should be positioned near the top unless a header is used.

Transom Clamps

Transom Clamps should be perfectly centered to provide a “teeter-totter” effect to the moving panel.



Vertical Deductions - Deluxe and EZ-Adjust Header Kits

Fixed Panel

TAKE OVERALL HEADER HEIGHT

MINUS	1-1/4" (32mm)	(overall face of header)
PLUS	3/8" (10mm)	(glass depth)
MINUS	3/16" (5mm)	(allowance for U-Channel or U-Clamp).

= 1-1/16" (27mm) Total Deduction from Top of Header

Door

TAKE OVERALL HEADER HEIGHT

MINUS	1-1/4" (32mm)	(overall face of header)
MINUS	1/8" (3mm)	(clearance above door)
MINUS	7/16" (11mm)	(bottom clearance for wipe)

= 1-13/16" (46mm) Total Deduction from Top of Header

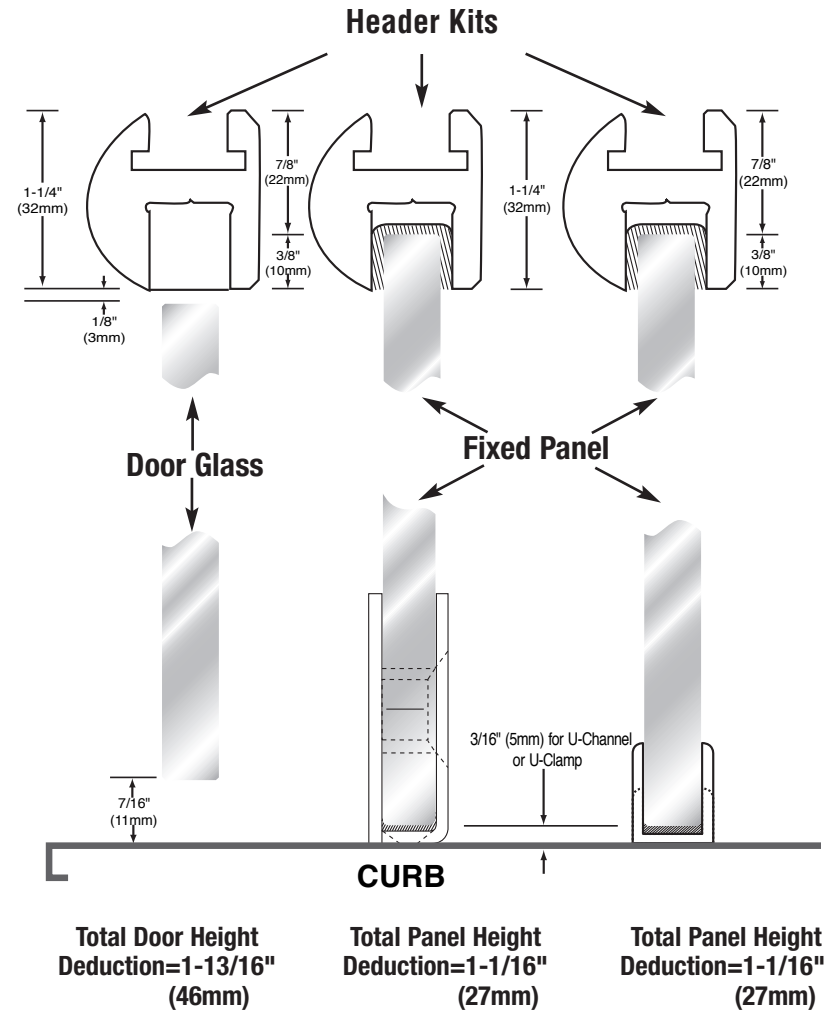
Example: You desire the top of the header to be at 80" (2032mm).

For fixed panel, 80" (2032mm) minus 1-1/16" (27mm) equals 78-15/16" (2005mm) for actual fixed panel height.

For door, 80" (2032mm) minus 1-13/16" (46mm) equals 78-3/16" (1986mm) for actual door height.

Note:

- When adapting the Senior Prima or Senior Cardiff Pivot Hinge into the Header Kit, a total door height deduction of 1-15/16" (49mm) is required.
- If using DUC38 Dry-Glaze U-channel, a deduction of 1-3/16" (30 mm) is required from Fixed panel



Vertical Deductions - Junior Header Kit

Fixed Panel

TAKE OVERALL HEADER HEIGHT

MINUS 7/8" (22mm) (overall face of header)

PLUS 1/4" (6mm) (glass depth)

MINUS 3/16" (5mm) (allowance for U-Channel or U-Clamp)

= 13/16" (21mm) Total Deduction from Top of Header

Door

TAKE OVERALL HEADER HEIGHT

MINUS 7/8" (22mm) (overall face of header)

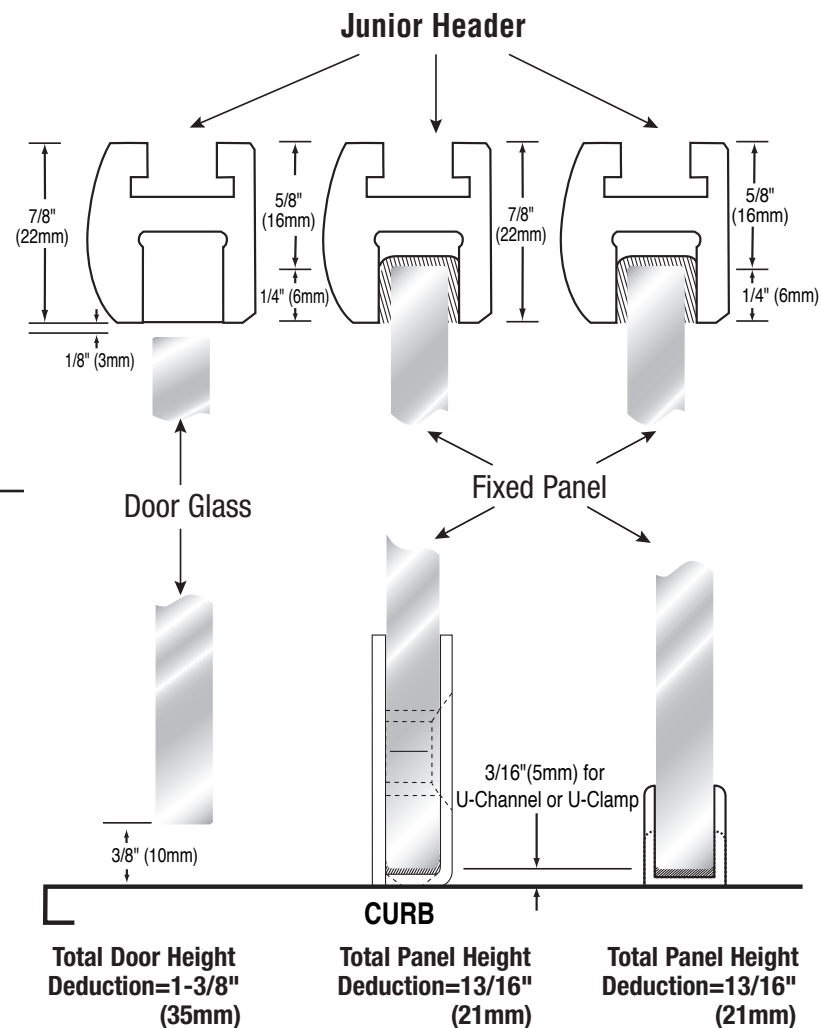
MINUS 1/8" (3mm) (clearance above door)

MINUS 3/8" (10mm) (bottom clearance for the following common bottom wipes: P450BR, P914WS, P250HW, SDTW)

= 1-3/8" (35mm) Total Deduction from Top of Header

Example: You desire the top of the header to be at 80".
For fixed panel, 80" (2032mm) minus 13/16" (21mm) equals 79-3/16" (2011mm) for actual fixed panel height.
For door, 80" (2032mm) minus 1-3/8" (35mm) equals 78-5/8" (1997mm) for actual door height.

Note: If components above are not used, call for adjustments needed.



Cutting Formula for EK Series Sliding Shower Door Kits

(Installation Instructions are shown in Section 3)

Components Description

HEADER
SIDE JAMB
BOTTOM TRACK
TOWEL BAR
KNOB
HARDWARE (Including Guide)

Metal Size Cutting Formula

HEADER = Top Width Measurement Less 1/16" (1.5mm)
SIDE JAMB = Overall Height Less 1-1/2" (38mm)
BOTTOM TRACK FOR EK SERIES = Bottom Width Measurement Less 3/4" (19mm)

Glass Size Cutting Formula

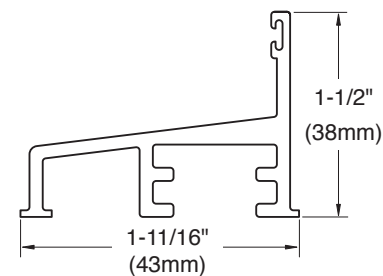
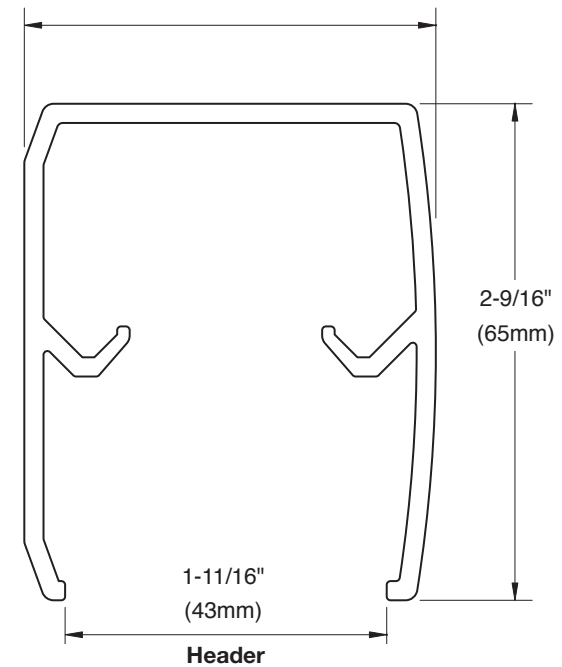
WIDTH FOR EK SERIES = Overall Width Divided By 2 Plus 3/8" (10mm)
HEIGHT FOR EK SERIES = Overall Height Less 2-5/8" (67mm)

All Stock EK Sliders Come with a Knob and a 24" (610 mm) Towel Bar

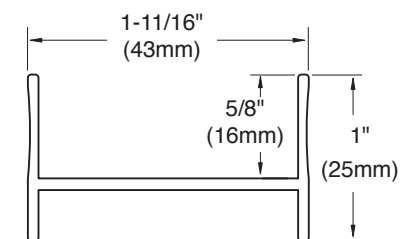
Towel Bar and Knob require 1/2" (12mm) diameter holes.

Holes for Towel Bar should be 24" (610mm) center-to-center. The recommendation is to center the Towel Bar both vertically and horizontally on the glass.

Placement of the Knob should be such that it is in line horizontally with the Towel Bar. The hole should be centered 3" in from the edge of the glass.



Bottom Track



Side Jamb

Calculating Glass Sizes - Frameless Sliding Shower Door Kit for 3/8" (10mm) and 1/4" (6mm) Glass

Cutting Formula for Frameless Double KD Slider

This information applies to Cat. No.'s S386060, S386072, S146060, S146072
(Installation instructions are shown in Section 3)

Components Description

HEADER
TOP RAIL
SIDE JAMB
BOTTOM TRACK

Custom sizes and configurations are available by special order.
Please fax your drawing to
(800) 458-7496 or
call (800) 421-6144 Extension 7740

Metal Size Cutting Formula

HEADER TOP MEASUREMENT LESS 1/16" (1.5mm)
TOP RAIL OVERALL WIDTH DIVIDED BY 2, PLUS 3/16" (5mm)
SIDE JAMB OVERALL HEIGHT LESS 1-5/8" (41mm)
BOTTOM TRACK BOTTOM MEASUREMENT LESS 3/4" (19mm)

Note: Cut 3/8" (10mm) from each end.

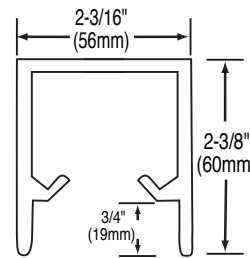
Glass Size Cutting Formula

WIDTH = OVERALL WIDTH DIVIDED BY 2, PLUS 1/4" (6mm)
HEIGHT FOR INSIDE PANEL = OVERALL HEIGHT LESS 2-3/8" (60mm)
HEIGHT FOR OUTSIDE PANEL = OVERALL HEIGHT LESS 2-1/2" (64mm)

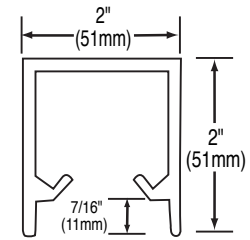
All Stock 3/8" (10mm) and 1/4" (6mm) Frameless Sliders come with a Knob and a 24" (610mm) Towel Bar

All Towel Bars and Knobs require 1/2" (12mm) diameter holes.
The placement of the holes for the Towel Bar are to be centered on the glass.
The holes for the Towel Bar are to be 24" (610mm) center-to-center.*
The hole placement for the knob is centered on the vertical edge and should match the distance in from the edge with the Towel Bar glass.

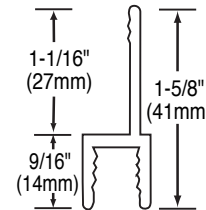
***Call for size of Towel Bar provided with custom units.**



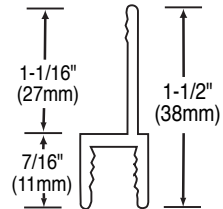
Header for 3/8" (10mm) Glass



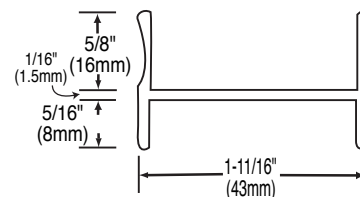
Header for 1/4" (6mm) Glass



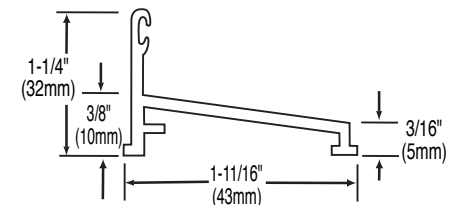
Top Rail for 3/8" (10mm) Glass



Top Rail for 1/4" (6mm) Glass



Side Jamb for 3/8" (10mm)
or 1/4" (6mm) Glass



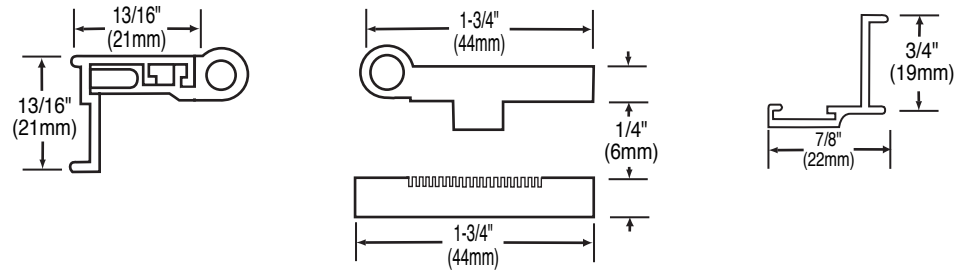
Bottom Track for 3/8" (10mm)
or 1/4" (6mm) Glass

Cutting Formula for Frameless Hinge KD Door Kit for 1/4" (6mm) Glass

This information applies to Cat. No.'s HDK64 and HDK72

Components Description

HINGE JAMB ASSEMBLY - 64" (1626mm) or 72" (1829mm) length
 STRIKE JAMB ASSEMBLY - 64" (1626mm) or 72" (1829mm) length
 BOTTOM DRIP RAIL - 36" (914mm) length
 HANDLE WITH MAGNET
 HARDWARE PACKAGE THAT INCLUDES APPROPRIATE SCREWS AND ANCHORS

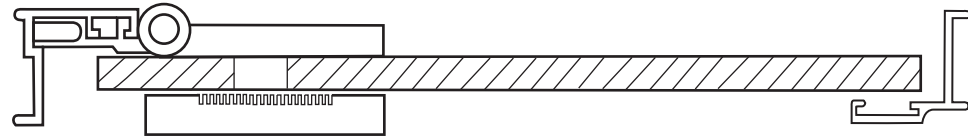


Glass Size Cutting Formula

WIDTH = OVERALL WIDTH LESS 7/8" (22mm)
 HEIGHT = JAMB HEIGHT LESS 3/8" (10mm) for bottom clearance

Glass Fabrication Information

Hinge holes are 1" (25mm) in diameter and located:
Top Hinge: 8" (203mm) down from the top, 1-1/4" (32mm) in from the edge of the glass to the center of the 1" (25mm) hole.
Bottom Hinge: 7-5/8" (194mm) up from the bottom, 1-1/4" (32mm) in from the edge of the glass to the center of the 1" (25mm) hole.



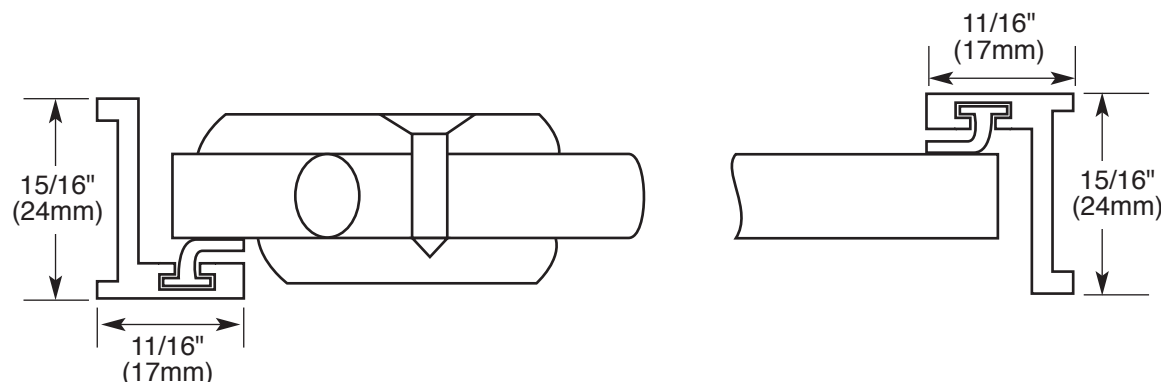
Note: Magnetic Handle Slips on and requires no glass fabrication.

Cutting Formula for Standard and Heavy Duty Hinge KD Door Kits for 3/8" (10mm), or 1/2" (12mm) Glass

This information applies to Cat. No.'s GEN033, P1N033, and V1E033

Components Description

HINGE JAMB ASSEMBLY - 72" (1829mm), or 78" (1981mm) length
 STRIKE JAMB ASSEMBLY - 72" (1829mm), or 78" (1981mm) length
 BOTTOM DRIP RAIL - 32" (813mm), or 36" (914mm) length
 MOUNTING HARDWARE



Glass Size Cutting Formula

WIDTH = OVERALL WIDTH OPENING LESS 15/16" (24mm)
 HEIGHT = JAMB HEIGHT LESS 7/16" (11mm) FOR BOTTOM CLEARANCE

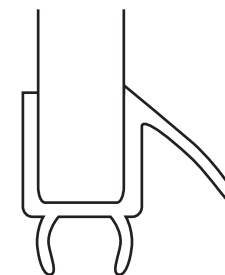
Glass Fabrication Information

Hinge Cutouts (Included)

Top Hinge: 8" (203mm) down from the top to the centerline of the hinge cutout.

Bottom Hinge: 7-9/16" (192mm) up from the bottom to the centerline of the hinge cutout.

CAUTION: If the jambs are cut, the fabrication required is altered by the dimension that has been cut off. For Example: The top of the hinge jamb is cut in length by 1-1/4" (32mm). The location of the top hinge is now 6-3/4" (171mm) down from the top to the center of the hinge cut out.



Cutting Formula for Cottage Series Sliding Shower Door Kits

This information applies to DK and CK Series Sliders (Installation instructions are shown in Section 3)

Components Description

HEADER
TOP HANGER
SIDE JAMB
BOTTOM TRACK
CLEAR JAMB (CK Series Only)

Metal Size Cutting Formula

HEADER= TOP WIDTH MEASUREMENT LESS 1/16" (1.5mm)
SIDE JAMB= OVERALL HEIGHT LESS 1-15/16" (49mm)
BOTTOM TRACK FOR DK SERIES= BOTTOM MEASUREMENT LESS 3/4" (19mm)
BOTTOM TRACK FOR CK SERIES= BOTTOM MEASUREMENT LESS 1/16" (1.5mm)

Glass Size Cutting Formula

WIDTH FOR DK SERIES= OVERALL WIDTH DIVIDED BY 2, PLUS 3/8" (10mm)
WIDTH FOR CK SERIES= OVERALL WIDTH DIVIDED BY 2, PLUS 13/16" (21mm)
HEIGHT FOR DK OR CK SERIES= OVERALL HEIGHT LESS 3-1/16" (78mm)

Sliding Panel Top Hanger Fabrication Instructions

Top Hanger for 3/8" (10mm) glass requires a 1/2" (12mm) diameter hole, 13/16" (21mm) down from the top edge to the center. The recommended position from the vertical edge of the glass inward is 2-1/2" (64mm)

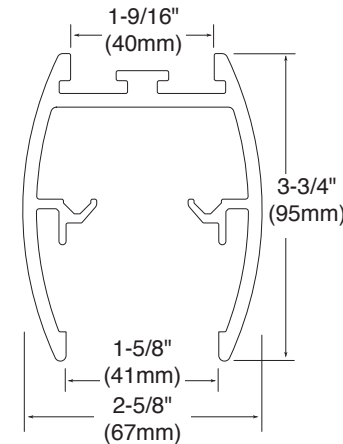
Top Hanger for 1/4" (6mm) glass requires a 1/2" (12mm) diameter hole 13/16" (21mm) down from the top edge to the center. The recommended position from the vertical edge of the glass inward is 2-1/4" (57mm) to the center of the diameter.

All Stock 3/8" (10 mm) and 1/4" (6 mm) Frameless Sliders come with a Knob and a 24" (610 mm) Towel Bar

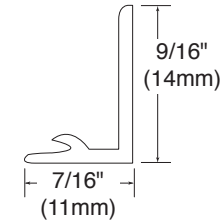
All Towel Bars and Knobs require 1/2" (12mm) diameter holes. The placement of the holes for the Towel Bar are to be centered on the glass. The holes for the Towel Bar are to be 24" (610mm) center-to-center.*

The hole placement for the knob is centered on the vertical edge and should match the distance in from the edge with the Towel Bar glass.

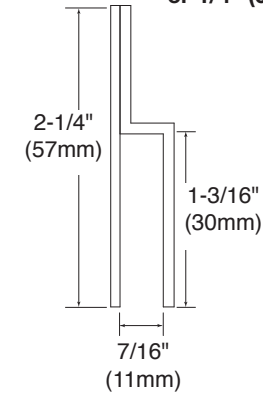
***Call for size of Towel Bar provided with custom units.**



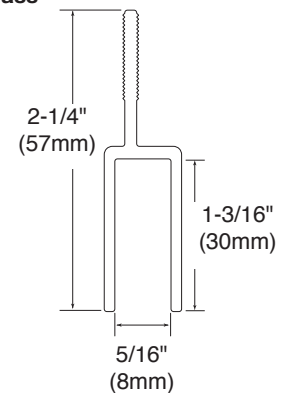
Header for 3/8" (10mm) Glass or 1/4" (6mm) Glass



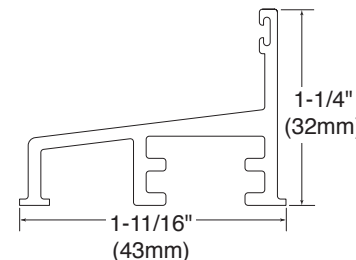
Clear Jamb for 3/8" (10mm) or 1/4" (6mm) Glass



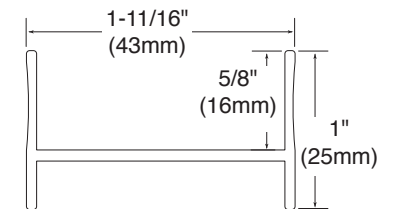
Top Hanger for 3/8" (10mm) Glass



Top Hanger for 1/4" (6mm) Glass



Bottom Track for 3/8" (10mm) or 1/4" (6mm) Glass



Side Jamb for 3/8" (10mm) or 1/4" (6mm) Glass



C.R. LAURENCE CO., INC.
PROFESSIONAL QUALITY

C.R. Laurence Company has established a Technical Sales Department to assist our customers. If you have any questions concerning shower door hardware or any product from CRL, please contact us at:
**(800) 421-6144 in the U.S.,
or (877) 421-6144 from Canada,
and ask for Extension 7740**

CRL Hydroslide Sliding Shower Door Glass and Metal Cutting Formula (180 Degree Application)



Specifications:

Overall width = Wall to wall distance

Overall height = Height from curb to top of fixed glass

Fixed glass panel extends 1/2" (12mm) above top of the header

Fixed glass height formula is based on using "U" Channel or clamps. A 3/16" (5mm) standard deduction is used at the bottom of the fixed panel.

Fixed and sliding glass panels overlap is 2" (51mm)

Standard gap in between wall and fixed and/or sliding glass is 1/8" (3mm)

Header height is 1-11/16" (43mm)

Gap between sliding glass panel and bottom of the header is 1/2" (12mm)

Gap in between fixed and sliding glass panels is 13/16" (21mm)

Sliding glass height formula is based on using a 5/16" (8mm) standard deduction at the bottom.

Metal Size Cutting Formula:

Header = Overall width measurement less 1/16" (1.5mm)

Glass Size Cutting Formula:

Width of fixed and/or sliding glass = Overall width divided by 2, plus 7/8" (22mm)

Height of fixed glass = Overall height – 3/16" (5mm)*

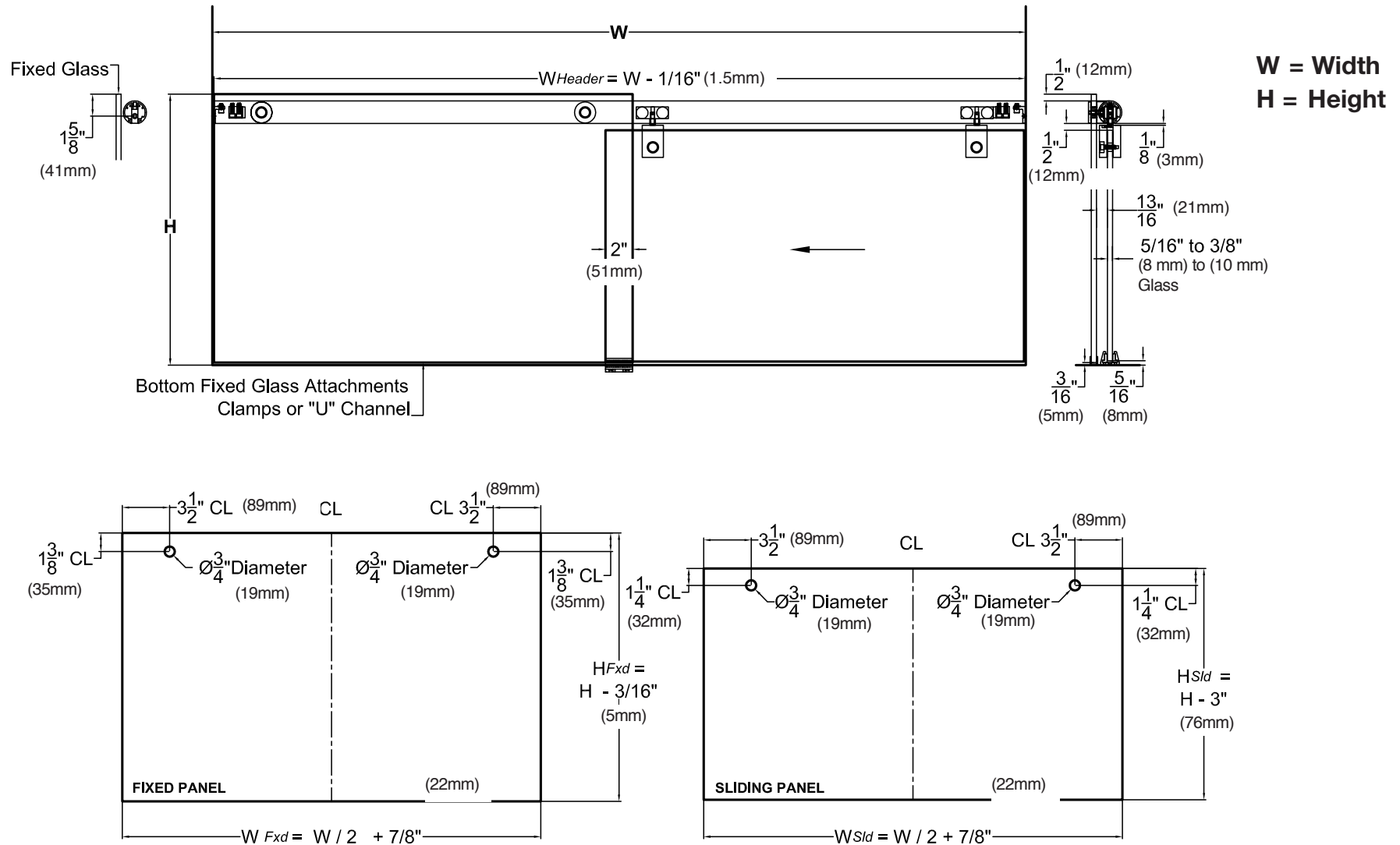
Height of sliding glass = Overall height – 3" (76mm)*

* Reminder – Overall height is determined from curb to top of fixed glass

* Reminder – Refer to CRL Shower Door Catalog for hole information for any Towel Bars, Knobs or Handles you may be using.

For glass drilling instructions, see next page

CRL Hydroslide Sliding Shower Door Glass Fabrication (180 Degree Application)



CRL Hydroslide Sliding Shower Door Glass and Metal Cutting Formula (90 Degree Application)



Specifications:

Overall width = Distance from wall to outside edge of the return panel

Overall height = Height from curb to top of fixed glass

Overall depth = Distance from wall to outside edge of the return and/or fixed panel

Fixed and return glass panels extend 1/2" (12mm) above top of the header

Fixed and return glass height formula is based on using "U" Channel or clamps. A 3/16" (5mm) standard deduction is used at the bottom of the fixed/return panels.

Fixed and sliding glass panels overlap is 2" (51mm)

Standard gap between wall and sliding and/or return glass is 1/8" (3mm)

Standard silicone gap between return and fixed glass is 1/8" (3mm)

Header height is 1-11/16" (43mm)

Gap between sliding glass panel and bottom of the header is 1/2" (12mm)

Gap between fixed and sliding glass panels is 13/16" (21mm)

Sliding glass height formula is based on using a 5/16" (8mm) standard deduction at the bottom.

Metal Size Cutting Formula:

Header = Overall width measurement less 5/8" (16 mm)

Glass Size Cutting Formula:

Width of fixed and/or sliding glass = Overall width divided by 2, plus 11/16" (17mm)

Width of return glass = Overall depth – 1/8" (3mm)

Height of fixed glass and height of return glass = Overall height – 3/16" (5mm)*

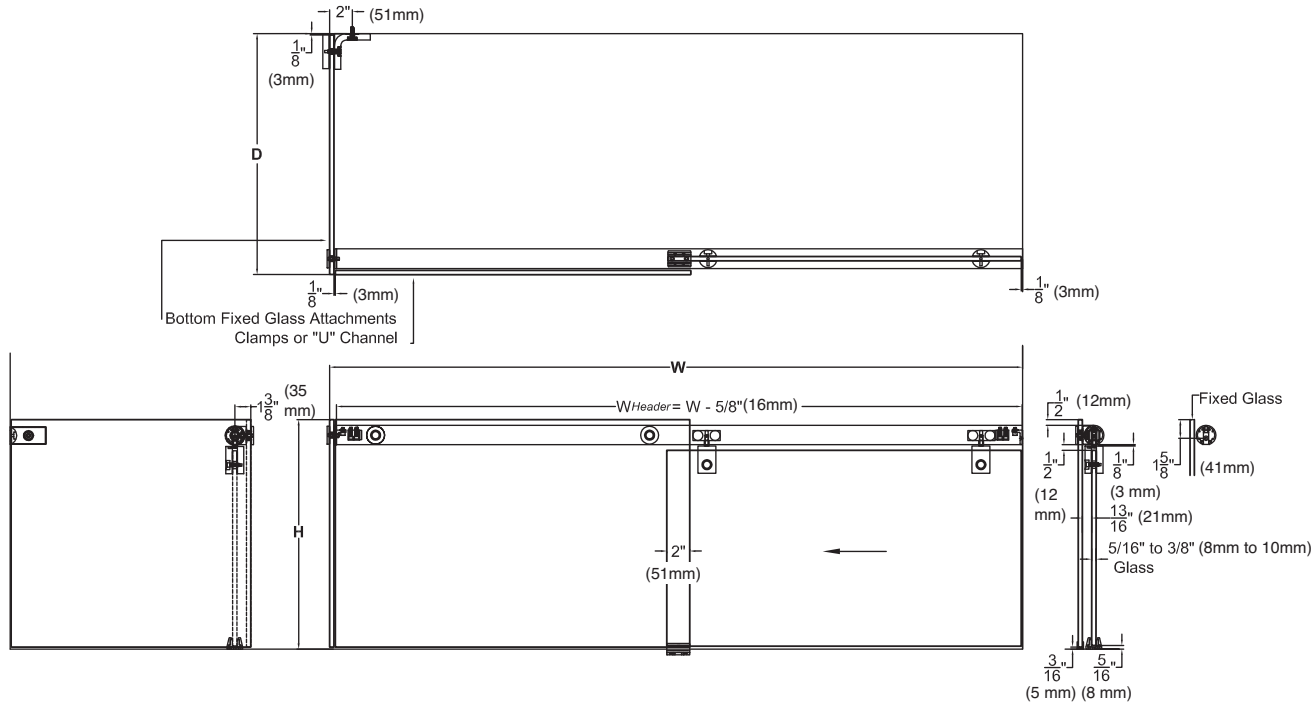
Height of sliding glass = Overall height – 3" (76mm)*

* Reminder – Overall height is determined from curb to top of fixed/return glass

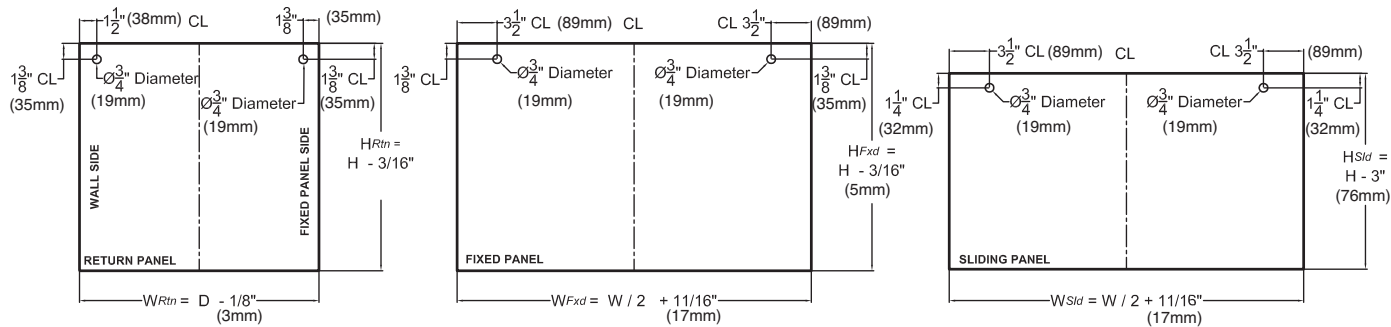
* Reminder – Refer to CRL Shower Door Catalog for hole information for any Towel Bars, Knobs or Handles you may be using.

For glass drilling instructions, see next page

CRL Hydroslide Sliding Shower Door Glass Fabrication (90 Degree Application)



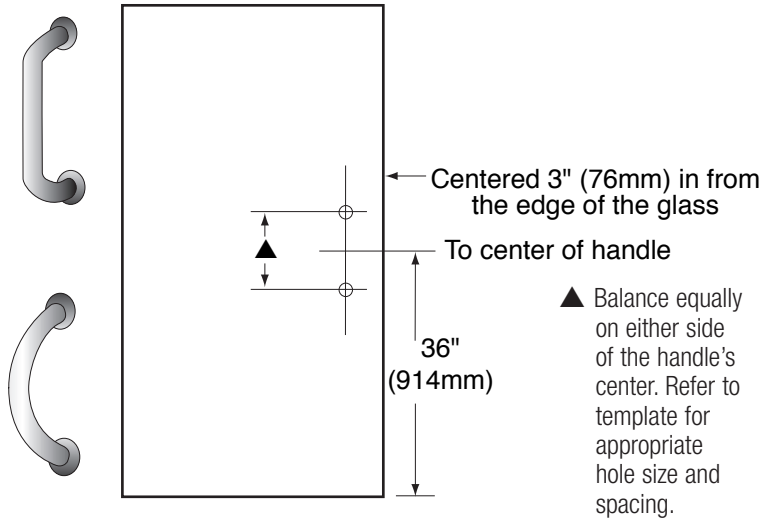
D = Depth
W = Width
H = Height



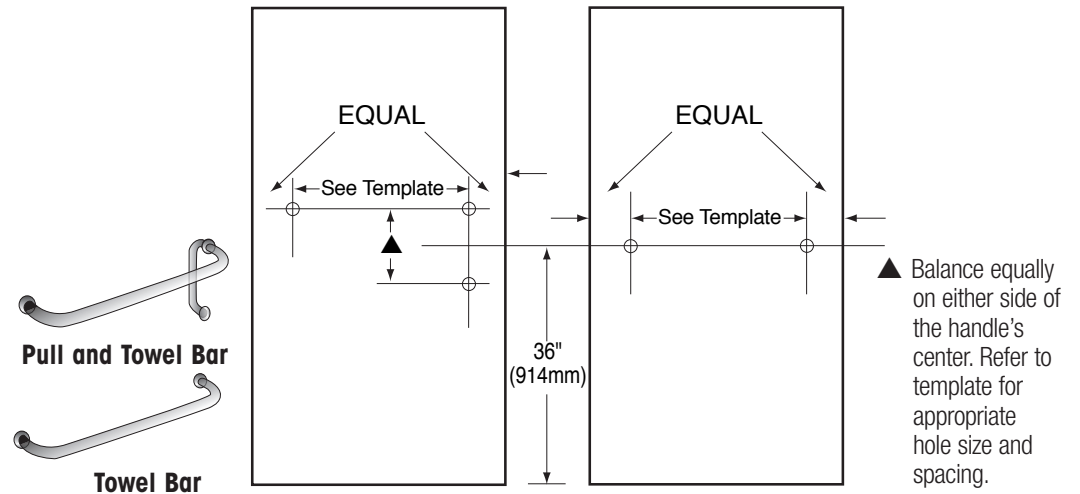
Pull Handles, Knobs, and Towel Bar Location Guidelines

GENERAL RULES FOR LOCATIONS OF ACCESSORIES

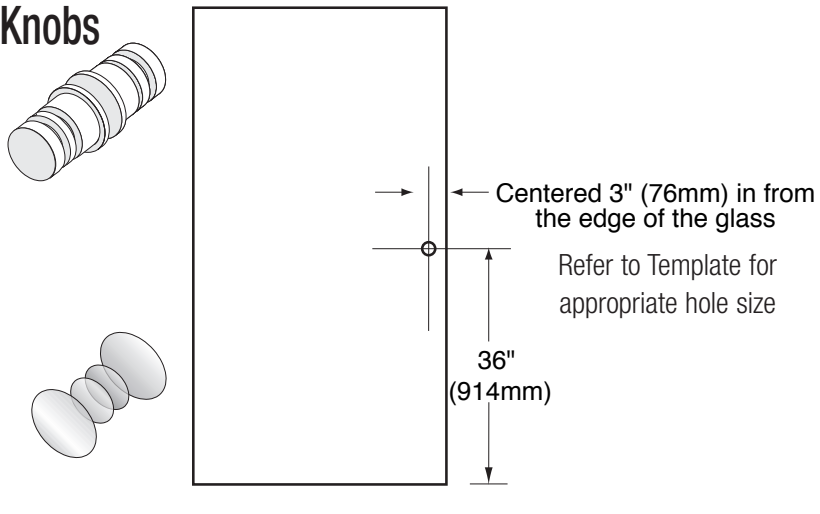
Door Pulls



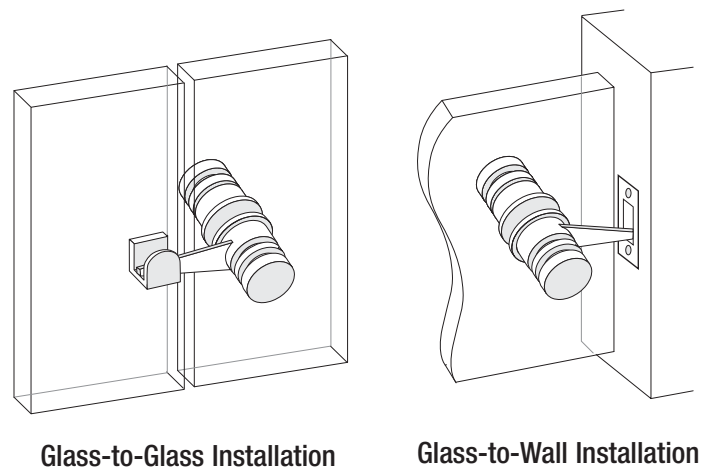
Towel Bars and Pull / Towel Bar Combinations



Knobs



Knob Latch



Location rules for height are the same as the Knobs to the left. However, clearances and hole location are quite a bit more complicated. They are fully explained on the template in Section 4 on **pages 4W-9 through 4W-10.**

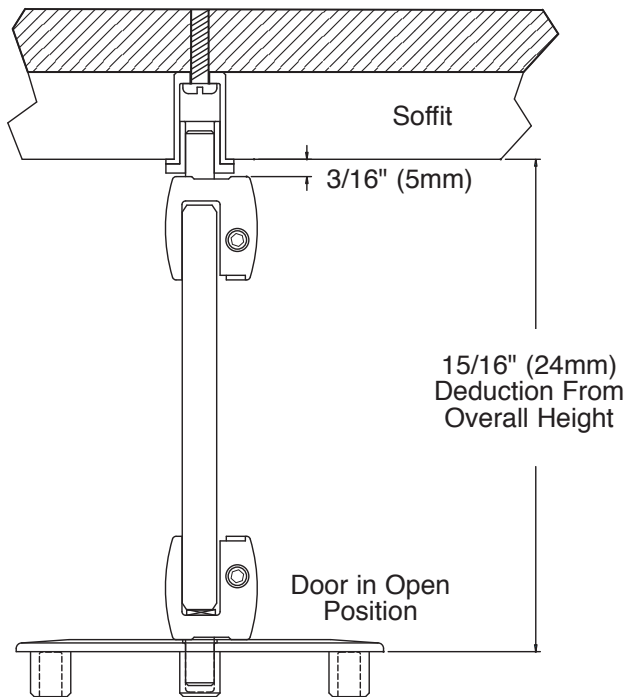


Madrid Series Hinge Glass Deductions

Curb to Soffit Mount Application

Glass Height= Overall height of opening minus 15/16" (24mm).

Glass Width= Overall width of opening minus 3/8" (10mm).

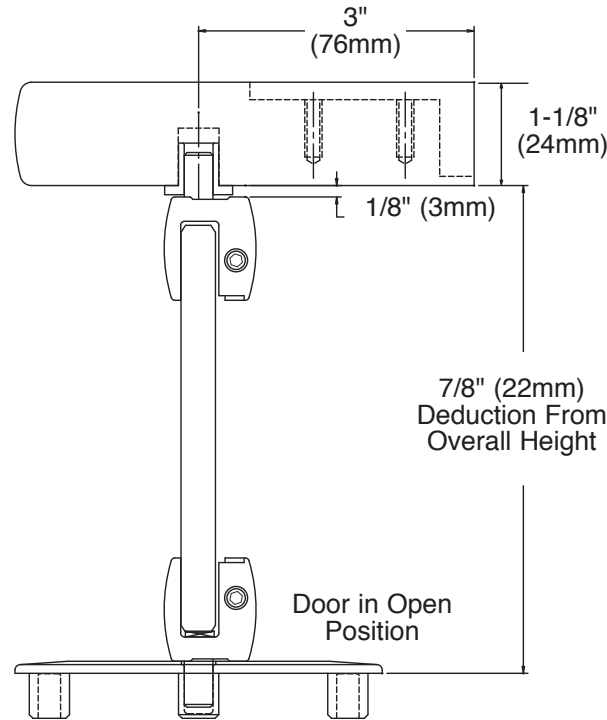


Curb To Soffit Mount Installation

Wall Mount Block Application

Glass Height= Height from curb to the bottom of the Wall Block minus 7/8" (22mm).

Glass Width= Overall width of opening minus 3/8" (10mm).

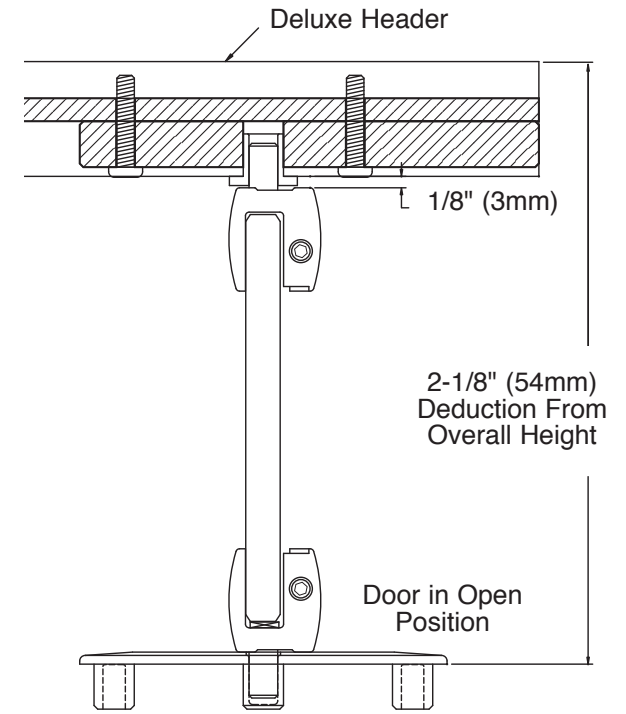


Curb To Wall Mount Block Installation

Header Mount Application

Glass Height= Height from curb to top of header minus 2-1/8" (54mm).

Glass Width= Overall width of opening minus 3/8" (10mm).



Curb To Header Mount Installation



C.R. LAURENCE CO., INC.
PROFESSIONAL QUALITY

C.R. Laurence Company has established a Technical Sales Department to assist our customers. If you have any questions concerning shower door hardware or any product from CRL, please contact us at:

**(800) 421-6144 in the U.S.,
or (877) 421-6144 from Canada,
and ask for Extension 7740**

Examples of How to Do a Frameless Shower Enclosure

Previously in Section 2 You Learned:

1. Fabrication Considerations.
2. The Importance of Center-Line Measurements.
3. Understanding Imaginary Lines.
4. What Tools Are Needed.
5. How to Measure a Shower Enclosure.
6. The Line Values and Symbols to Properly Illustrate a Unit.

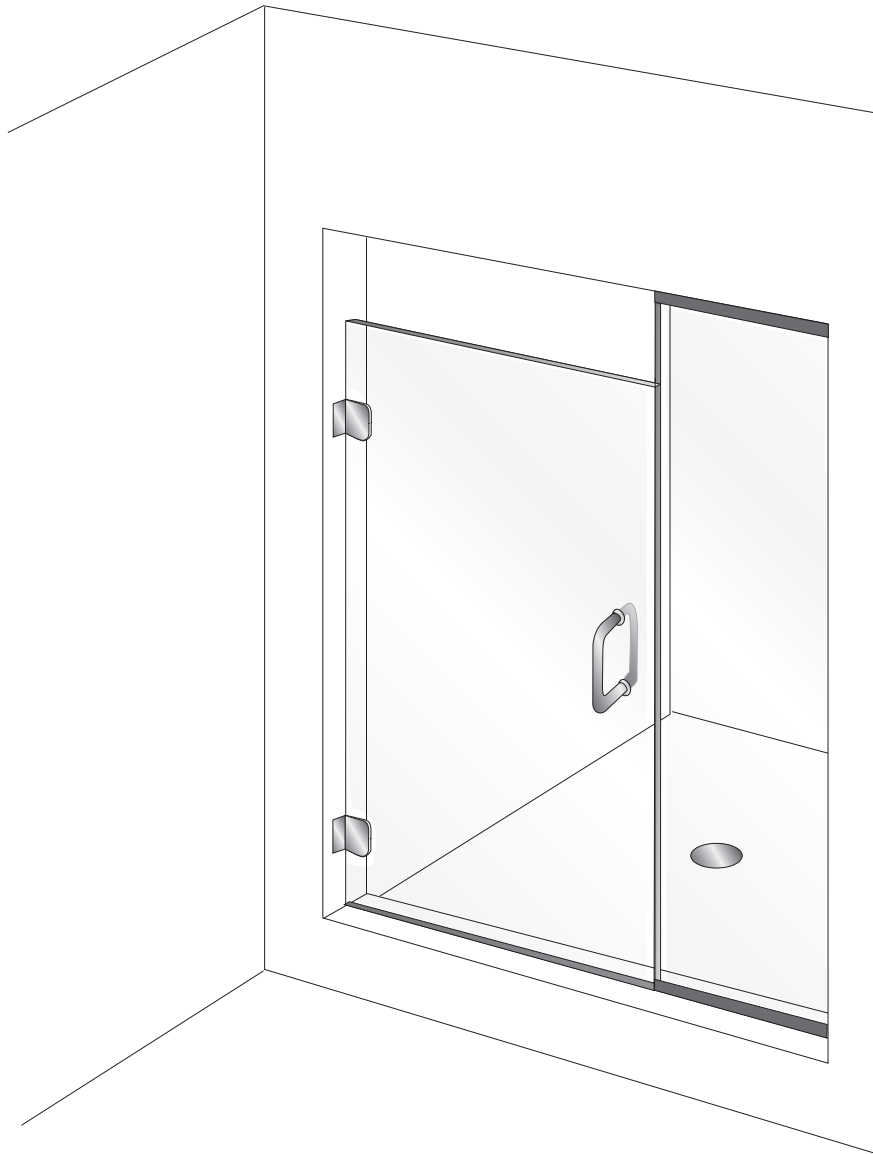
On the Following Pages You Will Learn By Three Examples to:

1. Illustrate the Unit of Your Design.
2. Fill Out a Hardware Selection Worksheet.
3. Draw the Unit with Measurements, and Out of Square Conditions on a Drawing Sheet.
4. Calculate and Illustrate Glass Sizes on Glass Template Sheets.

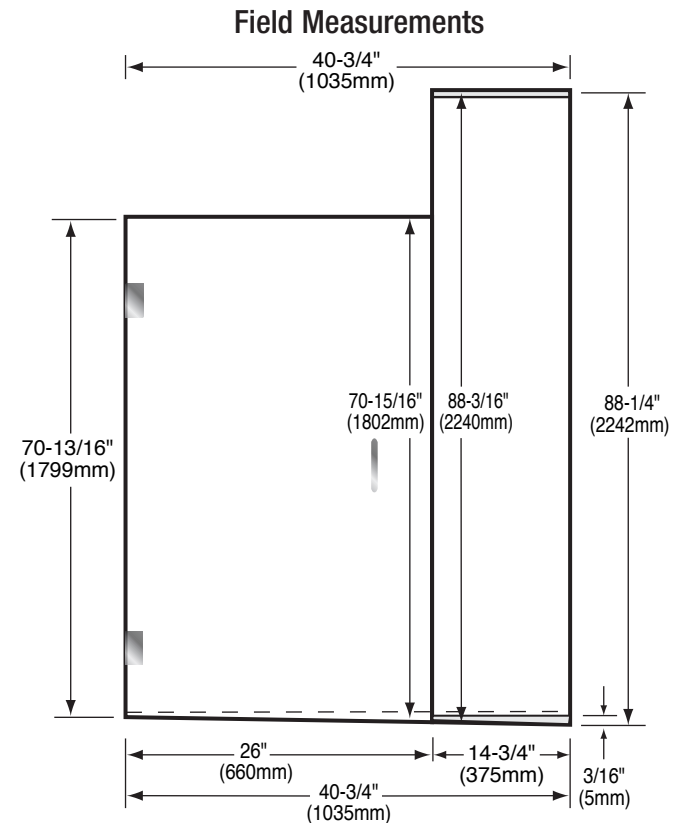
Following The Three Examples Are:

1. Sheets Showing Our Ten Most Popular Unit Designs.
2. Glass Template Sheets Without Dimensions for Your Personal Use.

Enclosure #1 - Measurements



In this example we will be taking you through the process required to fabricate a frameless shower enclosure. The next page is a worksheet for selection of hardware, followed by a drawing sheet to illustrate the enclosures dimensions. Part of this exercise will be to take the products selected and determine the proper clearances required. Clearance charts are shown in the front of this section. In the example, some clearances will be explained, other clearances will be taken from the charts and not explained. So it would be a good idea to take the worksheet and list the clearances for the hardware selected.



Frameless Shower Door Worksheet (Enclosure #1)

Blank Worksheets can be found in Section 1, page 17



SAVE THIS ORIGINAL. MAKE COPIES FOR USE AS WORKSHEETS.

Company: BPH Shower Door Contact: Bernie Phone No. (323)-555-1234 Fax No. (323)-555-5678

Guide to using the "Frameless Shower Door Worksheet"

This Worksheet was designed to assist you in covering the details required to complete a frameless shower enclosure. The **Checklist** section requires that you mark the box or fill in the blank that applies to your unit. Going through this exercise should prevent you from overlooking any details related to the installation, and assist you in making hardware selections. The **Product Selection** area is where you can actually write down the complete catalog numbers of the products you have selected.

Checklist: (mark each box or fill in each blank where applicable)

Glass Thickness: 1/4"(6mm) 5/16"(8mm) 3/8"(10mm) 1/2"(12mm)

Hardware Color: Chrome

Hinge Type: Wall Mounted Glass-to-Glass _____
 Top and Bottom Pivot

Desired Door Width: 26" (660mm) Opening

Configuration: Floor to Ceiling Header on Top
 Floating Top

Fixed Panel Securing: Regular U-Channel Clamps
 Deep U-Channel

Door to Swing: In and Out Out Only

Wipes and Seals: Yes No

Corner Joint: Mitered Overlapped

Knee Wall or Step: Yes No

Notes: U-Channel will secure fixed panel at top and bottom

Fax Completed sheet to: **C.R. Laurence Co., Inc.**
Fax No. (800) 587-7501
Then call to discuss:
(800) 421-6144 Ext. 777

Product Selection: (mark each box or fill in each blank where applicable)

(Use Frameless Shower Door Hardware and Supplies Catalog for Base Catalog Number, and add the appropriate suffix from the List of Finishes on Page 1-16).

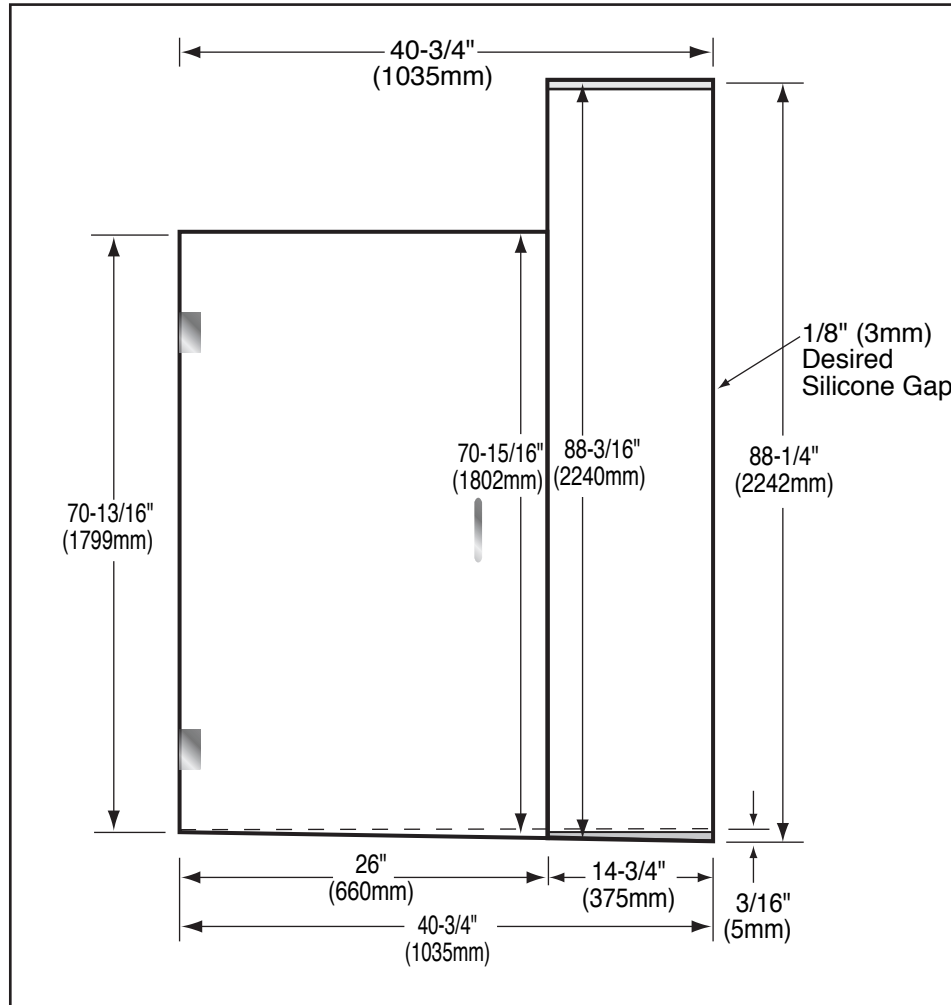
Product	Qty.	Catalog No.
Hinges	2	PINO37CH
Pull Handle or Knob	1	SPH8CH
Towel Bar		
U-Channel or Clamps	1	SDCD38BA
U-Channel or Clamps		
Header		
Wipes & Seals	1	P990WS
Other (Double Fin)	2	SDTDF
Other (Tape)	1	491014
Other		
Other		

Shower Door Drawing* (Enclosure #1)

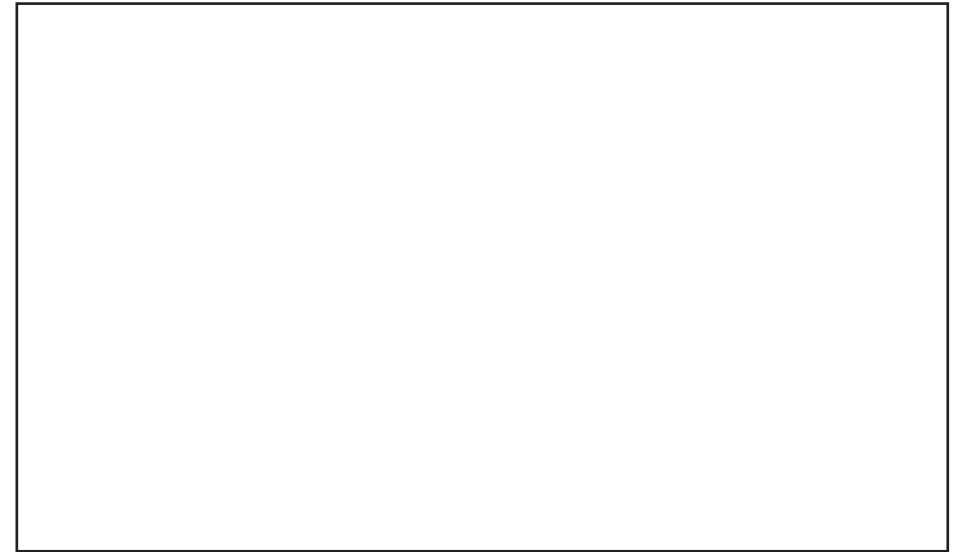
Blank Drawing Sheets can be found in Section 1, page 18

Save This Original. Make Copies for use as Worksheets.

General Elevation Drawing



Additional Detail Drawing



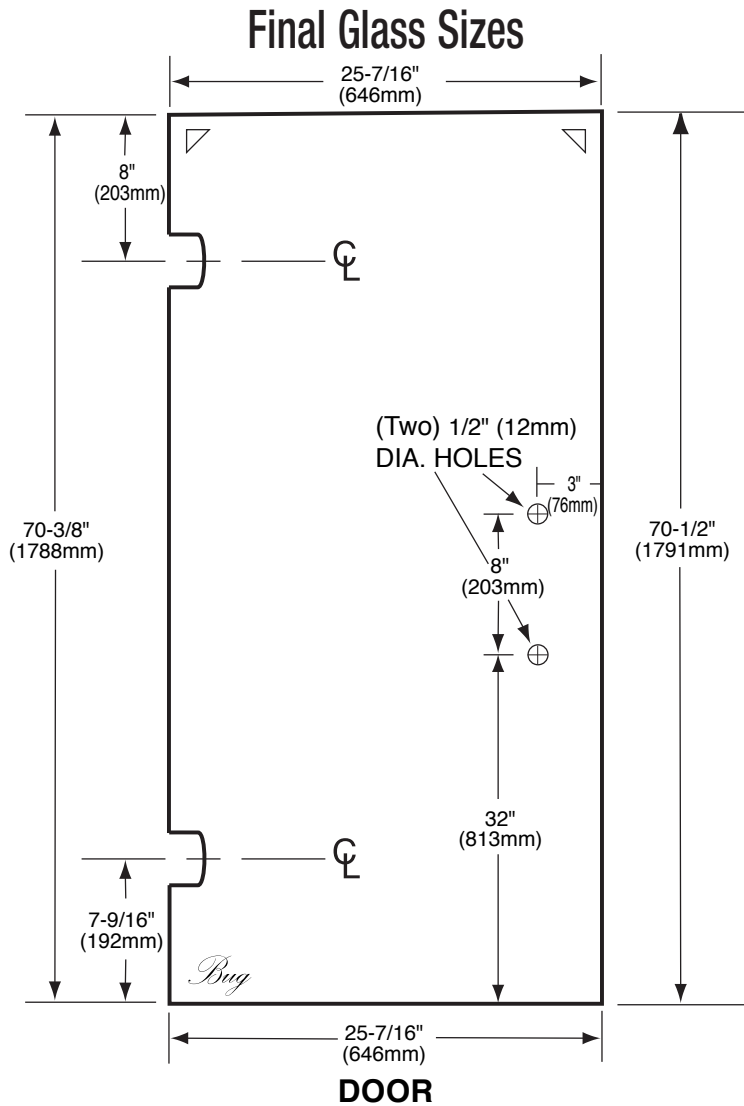
NOTES AND INFORMATION:

Panels are inline. $1/8"$ (3mm)

silicone gap along right wall.

*Section 2 (Fabrication) of This Book Details Industry Standard Methods of Drawing Frameless Shower Enclosures (Symbols, Line Values, Dimensions, etc.)

Enclosure #1 - Glass Sizes for Door



Sizing The Door:

Height: To determine the **height** of the door from the General Elevation Drawing, we must first address the out-of-level condition. The overall width of the opening is 40-3/4" (1035mm), and the bottom curb is illustrated as being 3/16" (5mm) out-of-level. The width of the door opening is 26" (660mm), almost exactly 2/3 of the total overall width of the opening. The outage on the curb is 3/16" (5mm). If you divide that outage equally into thirds, each third would equal 1/16" (1.5mm). The net outage for the door opening only, is 1/8" (3mm). The outage under the panel is 1/16" (1.5mm). The height of the door opening on the left side (hinge side) is 70-13/16" (1799mm). Therefore, at the right side (strike side) of the door, the height of the door opening is 70-15/16" (1802mm). These facts are clearly indicated on the drawing provided. We are now ready to calculate actual glass sizes. We first take 7/16" (11mm) off the overall height to accommodate the wipe on the bottom of the door. That makes the glass height 70-3/8" (1788mm) on the left side (hinge side). The glass height on the right side (strike side) is 70-1/2" (1791mm).

Width: To determine the actual glass **width** of the door, we must analyze what seals are to be used. We know that because there are not any out-of-plumb conditions indicated on the drawing, that the noted door opening of 26" (660mm) is the width at both the top and bottom. This is assuming that the fixed panel is installed plumb. With a door opening of 26" (660mm), and the Cat. No. SDTDF (Double Fin) being specified, a deduction of 9/32" (7mm) has been made on each side. The correct total deduction for width is 9/16" (14mm). The actual glass width of the door is 25-7/16" (646mm). The square corners of the glass are located at the top.

HEIGHT DEDUCTIONS

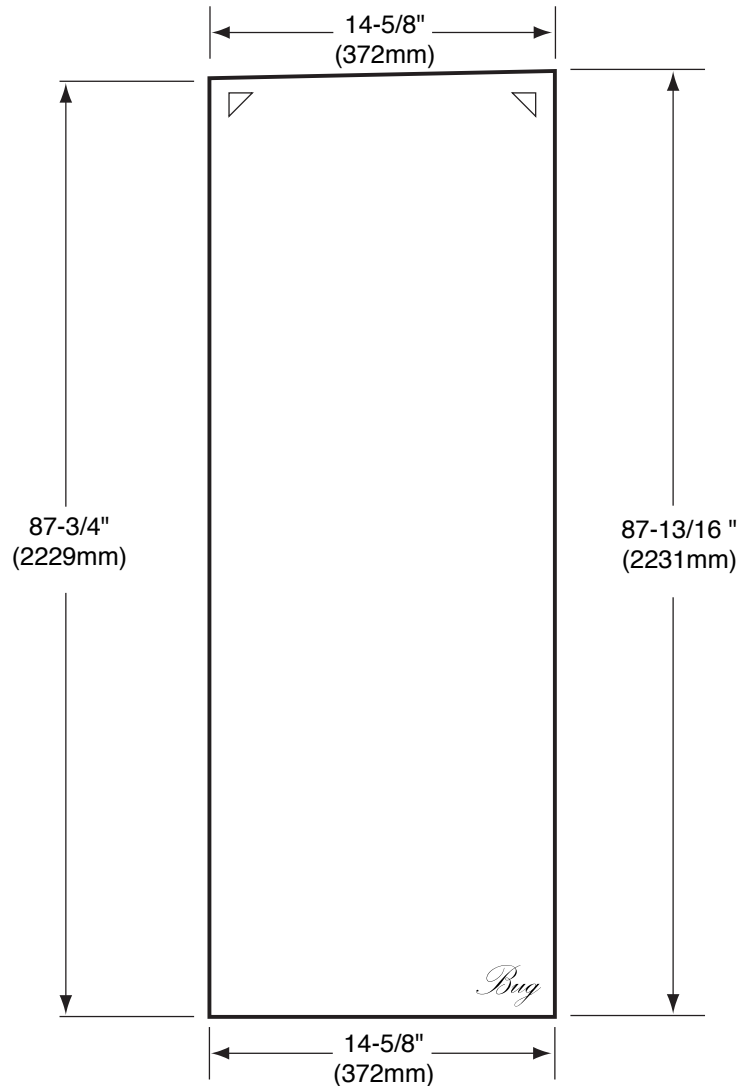
Left (Hinge) Side		Right (Strike) Side	
70 - 13/16" (1799mm)	Overall Door Height	70 - 15/16" (1802mm)	Overall Door Height
- 7/16" (11mm)	Deduction for Sweep	- 7/16" (11mm)	Deduction for Sweep
<hr/>		<hr/>	
= 70 - 3/8" (1788mm)	Actual Glass Height	= 70 - 1/2" (1791mm)	Actual Glass Height

WIDTH DEDUCTION

26" (660mm)	Door Opening
- 9/16" (14mm)	Deduction for Seals
<hr/>	
= 25 - 7/16" (646mm)	Actual Glass Width

Guidelines for Hinge Placement are Shown on Page 2-15. All Templates are Found in Section 4.

Final Glass Sizes



FIXED PANEL

Sizing The Fixed Panel:

Height: To determine the actual glass **height** of the fixed panel, we must first address the out-of level condition. The overall height of the fixed panel is 88-3/16" (2240mm) on the left (door) side, and 88-1/4" (2242mm) on the right (wall) side. We now take 7/16" (11mm) off the overall height for U-Channel (1/4" (6mm) clearance at the top and 3/16" (5mm) clearance at the bottom) to get our glass height of 87-3/4" (2229mm) on the left side, and 87-13/16" (2231mm) on the right side.

Width: The **width** is figured by merely deducting 1/8" (3mm) for the clearance that is indicated. The 14-3/4" (375mm) width becomes a 14-5/8" (372mm) glass size. The square corners are located at the top.

HEIGHT DEDUCTIONS

Left (Hinge) Side		Right (Strike) Side	
88 - 3/16" (2240mm)	Overall Panel Height	88 - 1/4" (2242mm)	Overall Panel Height
- 7/16" (11mm)	Deduction for Channel	- 7/16" (11mm)	Deduction for Channel
<hr/>		<hr/>	
= 87 - 3/4" (2229mm)	Actual Glass Height	= 87 - 13/16" (2231mm)	Actual Glass Height

WIDTH DEDUCTION

14 - 3/4" (375mm)	Overall Panel Width
- 1/8" (3mm)	Deduction for Silicone
<hr/>	
= 14 - 5/8" (372mm)	Actual Glass Width

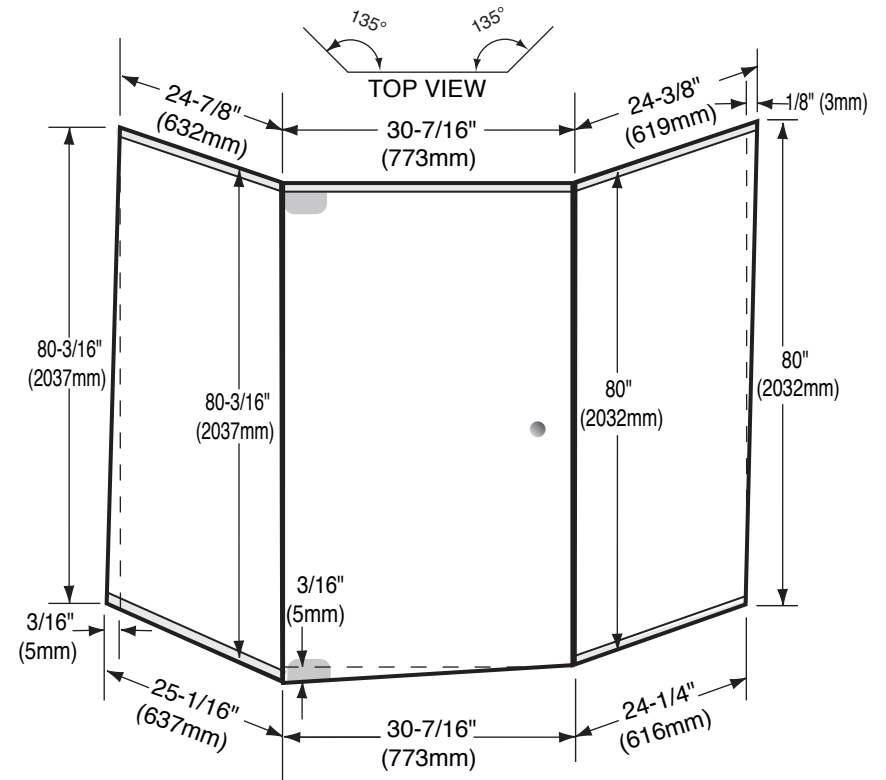
Enclosure #2 - Measurements

DETERMINING GLASS SIZES

In this example we will be taking you through the process required to fabricate a frameless shower enclosure. The next page is a worksheet for selection of hardware, followed by a drawing sheet to illustrate the enclosure's dimensions. Part of this exercise will be to take the products selected and determine the proper clearances required. Clearance charts are shown in the front of this section. In the example some clearances will be explained, while other clearances will be taken from the charts and not explained. So it would be a good idea to take the worksheet and list the clearances for the hardware selected.



Field Measurements



Frameless Shower Door Worksheet (Enclosure #2)

Blank Worksheets can be found
in Section 1, page 17



Save This Original. Make Copies for use as Worksheets.

Company: DEF Glass Contact: Don Phone No. (323)-555-9876 Fax No. (323)-555-8080

Guide to using the "Frameless Shower Door Worksheet"

This Worksheet was designed to assist you in covering the details required to complete a frameless shower enclosure. The **Checklist** section requires that you mark the box or fill in the blank that applies to your unit. Going through this exercise should prevent you from overlooking any details related to the installation, and assist you in making hardware selections. The **Product Selection** area is where you can actually write down the complete catalog numbers of the products you have selected.

Checklist: (mark each box or fill in each blank where applicable)

Glass Thickness: 1/4" (6mm) 5/16" (8mm) 3/8" (10mm) 1/2" (12mm)

Hardware Color: Brass

Hinge Type: Wall Mounted Glass-to-Glass _____°
 Top and Bottom Pivot

Desired Door Width: 30-7/16" (773mm) Opening

Configuration: Floor to Ceiling Header on Top
 Floating Top

Fixed Panel Securing: Regular U-Channel Clamps
 Deep U-Channel

Door to Swing: In and Out Out Only

Wipes and Seals: Yes No

Corner Joint: Mitered Overlapped

Knee Wall or Step: Yes No

Notes: _____

Fax Completed sheet to: **C.R. Laurence Co., Inc.**

Fax No. (800) 587-7501

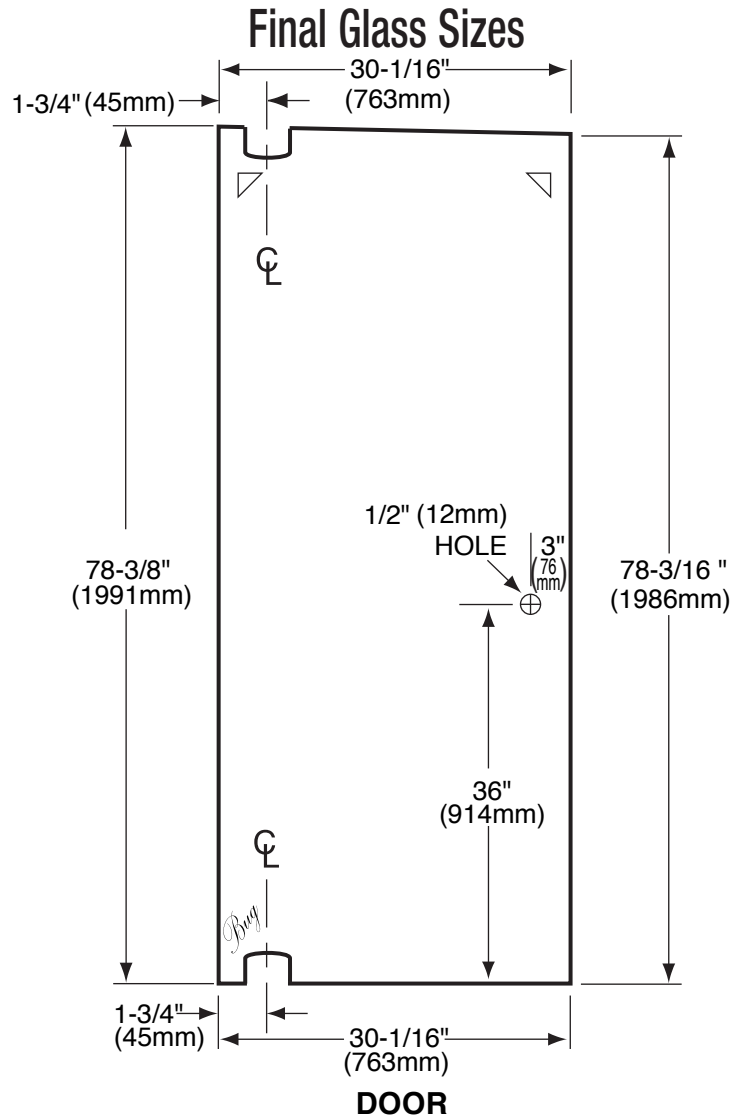
**Then call to discuss:
(800) 421-6144 Ext. 777**

Product Selection: (mark each box or fill in each blank where applicable)

(Use Frameless Shower Door Hardware and Supplies Catalog for Base Catalog Number, and add the appropriate suffix from the List of Finishes on Page 1-16).

Product	Qty.	Catalog No.
Hinges	2	PPH01BR
Pull Handle or Knob	1	SDK106BR
Towel Bar		
U-Channel or Clamps	1	SDCR38BGA
U-Channel or Clamps		
Header	1	SDH980BGA
Wipes & Seals	1	P990WS
Other (L-Seal)	2	SDTL
Other (135° Corners)	2	CD395
Other (Adaptor Block)	1	HAB01BGA
Other (Tape)	1	491014

Enclosure #2 - Glass Sizes for Door



Sizing The Door:

Height: When referring to overall height in an application that requires the use of a header, it is important to clarify that term. "Overall height" means the height from the curb (base) to the top of the header. The formula for figuring the height of a door that uses the header system is found on page 2-22. To determine the **height** of the door in the General Elevation Drawing, we must first address the out-of-level condition. The overall height at the right (strike) side is shown to be 80" (2032mm). The bottom curb is out-of-level by 3/16" (5mm), making the overall height at the left (hinge) side, 80-3/16" (2037mm). The net deduction from overall height is 1-13/16" (46mm). The actual glass height for the door on the right (strike) side is 78-3/16" (1986mm). The actual glass height for the door on the left (hinge) side is 78-3/8" (1991mm).

Width: The **width** of the door is figured by using the center-line dimension as your overall door opening width. The center-line dimension is 30-7/16" (773mm). The "L" Seals (Cat. No. SDTL) being used will require a 3/16" (5mm) deduction on each side of the door, for a net deduction of 3/8" (10mm). The actual glass width is 30-1/16" (763mm) at both the top and bottom, assuming the adjacent panels are installed plumb. The square corners of the glass are located on the top, and the door has no miter edgework.

HEIGHT DEDUCTIONS

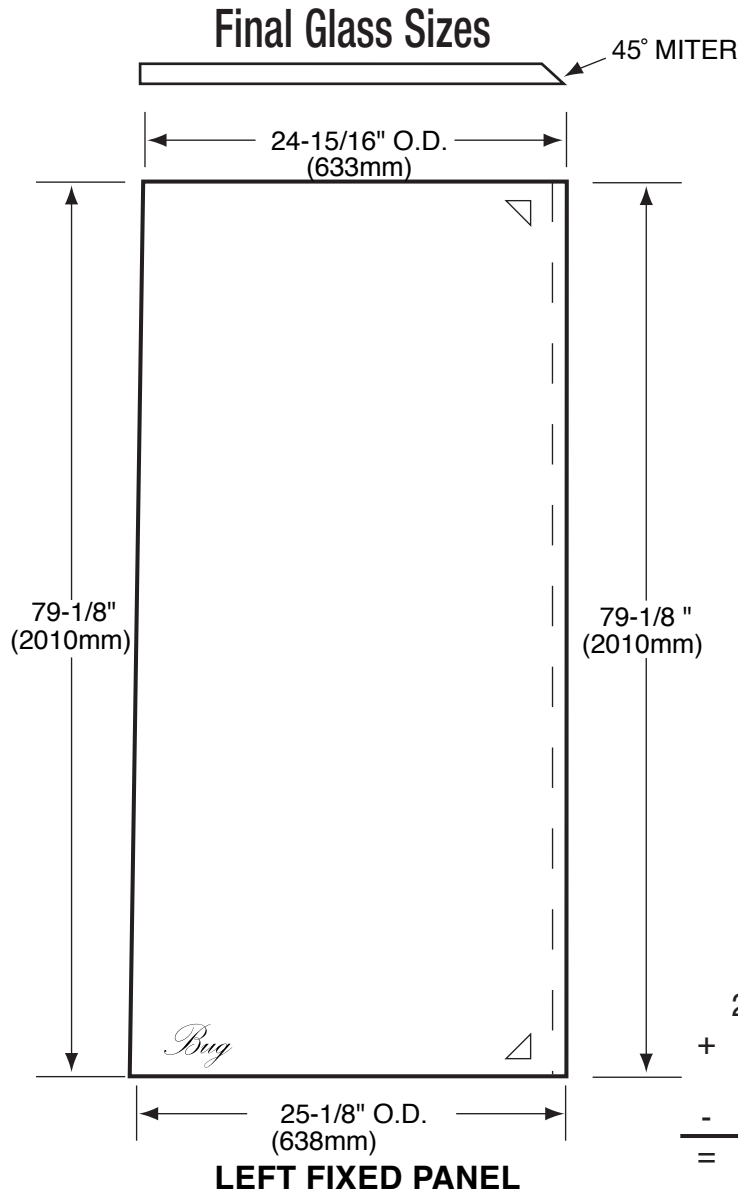
Left (Hinge) Side		Right (Strike) Side	
80 - 3/16" (2037mm)	Overall Door Height	80" (2032mm)	Overall Door Height
- 1 - 13/16" (46mm)	Deduction for Door Using Header System	- 1 - 13/16" (46mm)	Deduction for Door Using Header System
<hr/>		<hr/>	
= 78 - 3/8" (1991mm)	Actual Glass Height	= 78 - 3/16" (1986mm)	Actual Glass Height

WIDTH DEDUCTION

30 - 7/16" (773mm)	Center-Line (Overall Door Opening Width)
- 3/8" (10mm)	Deduction for "L" Seals
<hr/>	
= 30 - 1/16" (763mm)	Actual Glass Width

Guidelines for Hinge Placement are Shown on Page 2-15. All Templates are Found in Section 4.

Enclosure #2 - Glass Sizes for Left Side Fixed Panel



Sizing the Left Side Fixed Panel:

Height: When referring to overall height in an application that requires the use of a header, it is important to clarify that the term "overall height" means the height from the curb (base) to top of the header. To determine the **height** of the fixed panel, the formula on page 2-22 provides that we deduct 1-1/16" (27mm) from overall height. The overall height is shown as being 80-3/16" (2037mm). The actual glass height for the panel on both sides is 79-1/8" (2010mm).

Width: In determining the **width** of the panel, the out-of-plumb condition must be noted. The vertical wall has an outage of 3/16" (5mm). The center-line width at the bottom is shown as 25-1/16" (637mm), while the center-line width at the top is 24-7/8" (632mm). It must be understood that when doing a neo-angle, the panels next to the door are to be mitered at 45 degrees. The industry standard for displaying a measurement on a mitered piece of glass is the "outside dimension". The outside dimension refers to the long point on a mitered piece of glass. To convert the center-line dimension of this piece of glass that is mitered at 45 degrees to an outside dimension, an addition of 3/16" (5mm) (half the glass thickness) is required. It is noted in the drawing that the gap between fixed panel and the wall is to be 1/8" (4mm). So we have determined that a 1/8" (4mm) **deduction** is to be made for the gap at the wall and that we must **add** 3/16" (5mm) to convert from center-line to outside of miter, for a **net add** of 1/16" (1mm). The actual glass width on the bottom of the left-side fixed panel is 25-1/8" (638mm) O.D. (Outside Dimension). The actual glass width at the top is 24-15/16" (633mm) O.D. (Outside Dimension). The square corners are located on the right side.

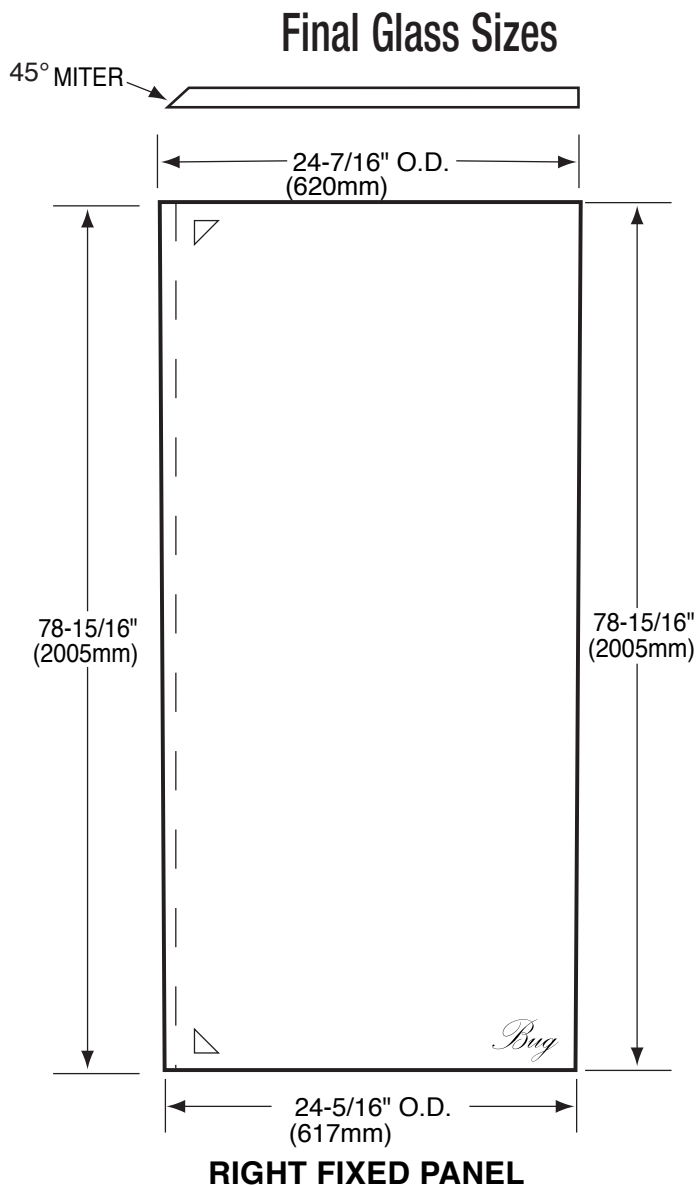
HEIGHT DEDUCTIONS

80" 3/16" (2037mm)	Overall Panel Height
- 1 - 1/16" (27mm)	Deduction for Fixed Panel Using Header System
<hr/>	
= 79 - 1/8" (2010mm)	Actual Panel Height

WIDTH DEDUCTION

Bottom		Top	
25 - 1/16" (637mm)	Center-Line Dimension	24 - 7/8" (632mm)	Center-Line Dimension
+ 3/16" (5mm)	Add to Convert from Center-Line to Outside Dimension	+ 3/16" (5mm)	Add to Convert from Center-Line to Outside Dimension
- 1/8" (4mm)	Deduction for Clearance	- 1/8" (4mm)	Deduction for Clearance
<hr/>		<hr/>	
= 25- 1/8" (638mm)	Actual Glass Width (to O.D.-Outside Dimension)	= 24- 15/16" (633mm)	Actual Glass Width (to O.D.-Outside Dimension)

Enclosure #2 - Glass Sizes for Right Side Fixed Panel



Sizing the Right Side Fixed Panel:

Height: When referring to overall height in an application that requires the use of a header, it is important to clarify that the term "overall height" means the height from the curb (base) to the top of the header. To determine the **height** of the fixed panel, the formula on page 2-22 provides that we deduct 1-1/16" (27mm) from the overall height. The overall height is shown as being 80" (2032mm). The actual glass height for the panel on both sides is 78-15/16" (2005mm).

Width: In determining the **width** of the panel, the out-of-plumb condition must be addressed. The vertical wall has an outage of 1/8" (4mm). The center-line width at the bottom is shown as 24-1/4" (616mm), while the center-line width at the top is 24-3/8" (619mm). It must be understood that when doing a neo-angle, the panels next to the door are to be mitered at 45 degrees. The industry standard for displaying a measurement on a mitered piece of glass is the "outside dimension". The outside dimension refers to the long point on a mitered piece of glass. To convert the center-line dimension of this piece of glass mitered at 45 degrees to an outside dimension, an addition of 3/16" (5mm) (half of the glass thickness) is required. It is noted in the drawing that the gap between fixed panel and the wall is to be 1/8" (4mm). So we have determined that a 1/8" (4mm) **deduction** is to be made for the gap at the wall, and that we must **add** 3/16" (5mm) to convert from center-line to outside of miter, for a **net add** of 1/16" (1mm). The actual glass width at the bottom of the right side fixed panel is 24-5/16" (617mm) O.D. (Outside Dimension). The actual glass width at the top of the right side fixed panel is 24-7/16" (620mm) O.D. (Outside Dimension). The square corners are located on the left side.

HEIGHT DEDUCTIONS

80" (2032mm)	Overall Panel Height
- 1 - 1/16" (27mm)	Deduction for Fixed Panel Using Header System
= 78 - 15/16" (2005mm)	Actual Glass Height

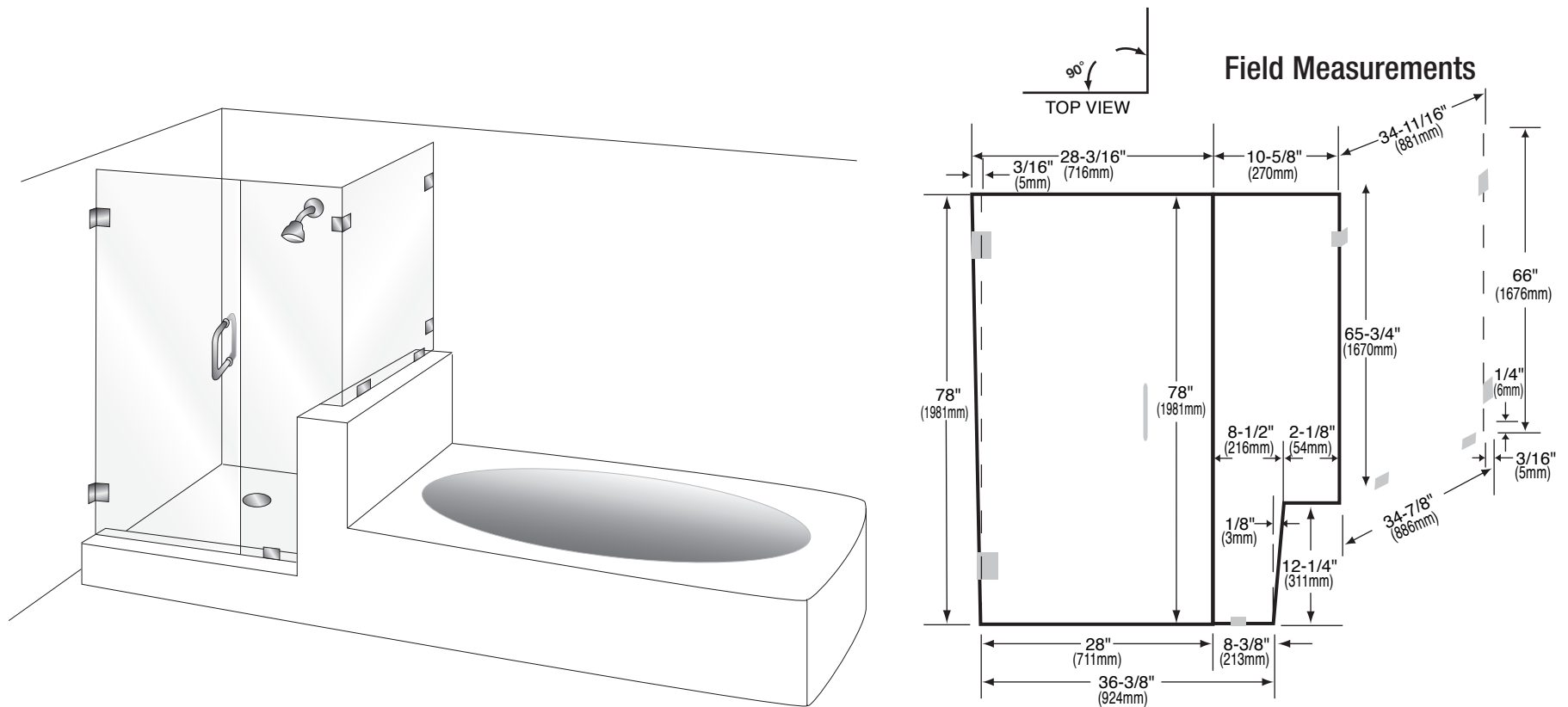
WIDTH DEDUCTION

Bottom	Top
24 - 1/4" (616mm)	24 - 3/8" (619mm)
+ 3/16" (5mm)	+ 3/16" (5mm)
- 1/8" (4mm)	- 1/8" (4mm)
= 24 - 5/16" (617mm)	= 24 - 7/16" (620mm)
Center-Line Dimension	Center-Line Dimension
Add to Convert from Center-Line to Outside Dimension	Add to Convert from Center-Line to Outside Dimension
Deduction for Clearance	Deduction for Clearance
Actual Glass Width (to O.D.-Outside Dimension)	Actual Glass Width (to O.D.-Outside Dimension)

Enclosure #3 - Measurements

Determining Glass Sizes

In this example we will be taking you through the process required to fabricate a frameless shower enclosure. The next page is a worksheet for selection of hardware, followed by a drawing sheet to illustrate the enclosures dimensions. Part of this exercise will be to take the products selected and determine the proper clearances required. Clearance charts are shown in the front of this section. In the example, some clearances will be explained, while other clearances will be taken from the charts and not explained. So it would be a good idea to take the worksheet and list the clearances for the hardware selected.



Frameless Shower Door Worksheet (Enclosure #3)

Blank Worksheets can be found
in Section 1, page 17



Save This Original. Make Copies for use as Worksheets.

Company: LWT Hardware Contact: Lloyd Phone No. (323)-555-5151 Fax No. (323)-555-1515

Guide to using the "Frameless Shower Door Worksheet"

This Worksheet was designed to assist you in covering the details required to complete a frameless shower enclosure. The **Checklist** section requires that you mark the box or fill in the blank that applies to your unit. Going through this exercise should prevent you from overlooking any details related to the installation, and assist you in making hardware selections. The **Product Selection** area is where you can actually write down the complete catalog numbers of the products you have selected.

Checklist: (mark each box or fill in each blank where applicable)

Glass Thickness: 1/4"(6mm) 5/16"(8mm) 3/8"(10mm) 1/2"(12mm)

Hardware Color: Chrome

Hinge Type: Wall Mounted Glass-to-Glass ____°
 Top and Bottom Pivot

Desired Door Width: 28" (711mm) Opening

Configuration: Floor to Ceiling Header on Top
 Floating Top

Fixed Panel Securing: Regular U-Channel Clamps
 Deep U-Channel

Door to Swing: In and Out Out Only

Wipes and Seals: Yes No

Corner Joint: Mitered Overlapped

Knee Wall or Step: Yes No

Notes: Entire enclosure does not go to ceiling

Fax Completed sheet to: **C.R. Laurence Co., Inc.**
Fax No. (800) 587-7501
Then call to discuss:
(800) 421-6144 Ext. 777

Product Selection: (mark each box or fill in each blank where applicable)

(Use Frameless Shower Door Hardware and Supplies Catalog for Base Catalog Number, and add the appropriate suffix from the List of Finishes on Page 1-16).

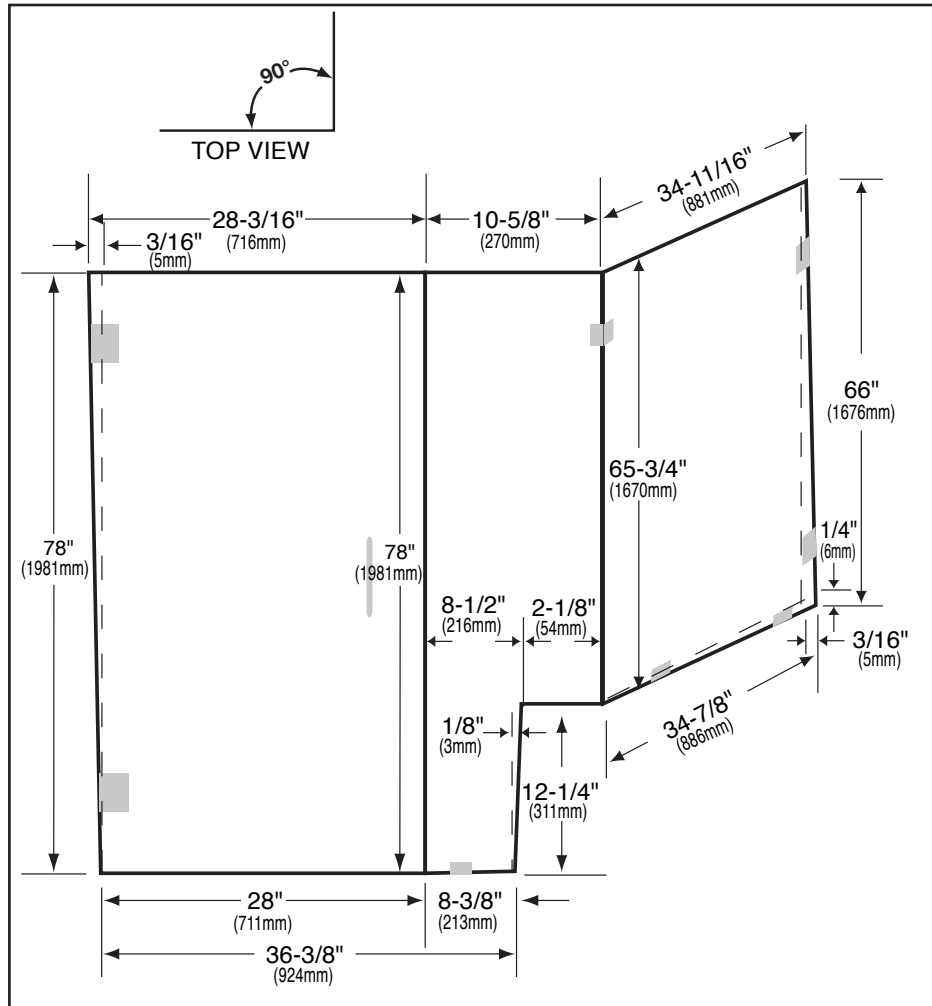
Product	Qty.	Catalog No.
Hinges	2	GEN037CH
Pull Handle or Knob	1	SPH6CH
Towel Bar		
U-Channel or Clamps	5	UC77CH
U-Channel or Clamps	1	GCB90CH
Header		
Wipes & Seals	1	P990WS
Other (h-Jamb)	1	P380HJ
Other (Bulb Seal)	1	SDTB
Other (Tape)	1	491014
Other		

Shower Door Drawing* (Enclosure #3)

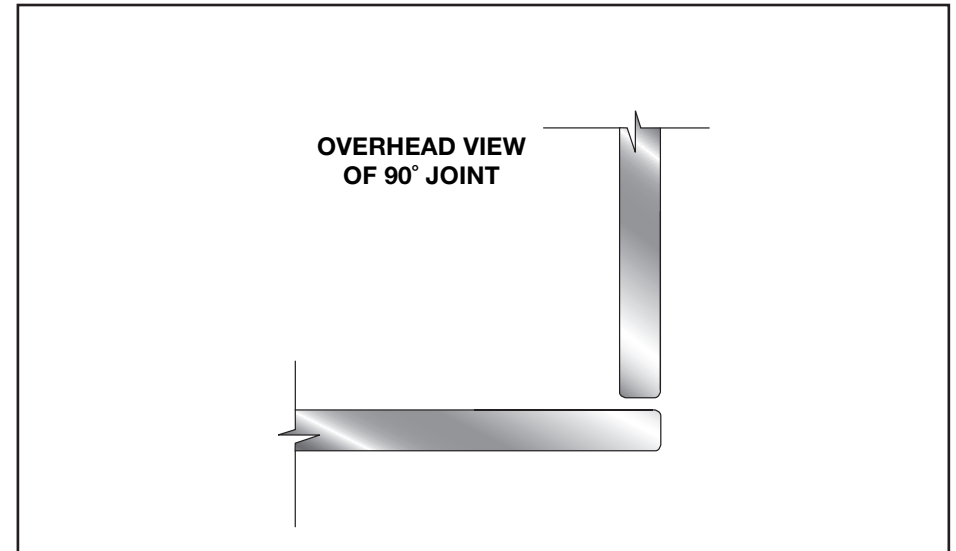
Blank Drawing Sheets can be found in Section 1, page 18

Save This Original. Make Copies for use as Worksheets.

General Elevation Drawing



Additional Detail Drawing



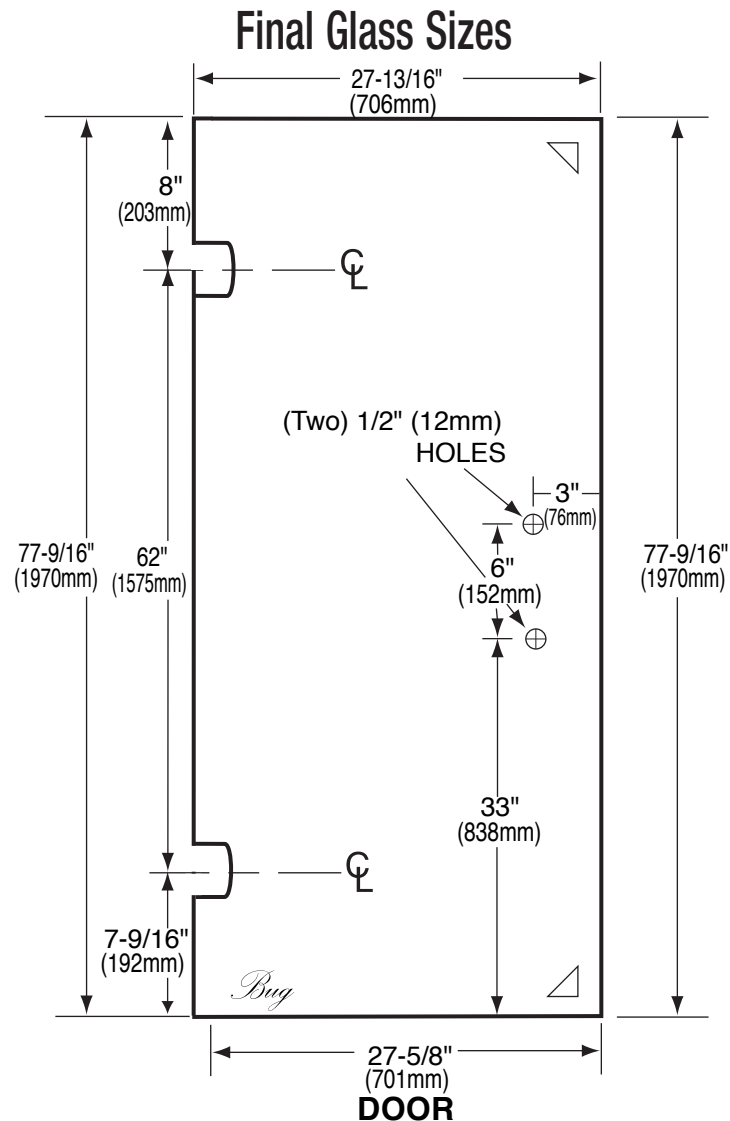
Notes and Information:

All measurements are center-line

Open space above enclosure

*Section 2 (Fabrication) of This Book Details Industry Standard Methods of Drawing Frameless Shower Enclosures (Symbols, Line Values, Dimensions, etc.)

Enclosure #3 - Glass Sizes for Door



Sizing The Door:

Height: To determine the **height** of the door, we must ascertain the height of the door opening. The General Elevation Drawing indicates that the height of the door opening is 78" (1981mm). Since there are no out-of-level conditions noted, all that is required is a simple deduction of 7/16" (11mm) for the sweep on the bottom of the door. The actual glass height is 77-9/16" (1970mm).

Width: The **width** of the door opening is noted on the General Elevation Drawing as being out-of-plumb. The width of the door opening at the bottom is 28" (711mm). Since there is an outage of 3/16" (5mm) on the left (hinge) side, the width at the top of the door opening is 28-3/16" (716mm). The panel next to the door is to be installed plumb. The polycarbonate strike and Bulb Seal being used will require a deduction of 3/16" (5mm) on each side of the door, for a total deduction of 3/8" (10mm). The actual glass width is 27-5/8" (701mm) at the bottom. The actual glass width at the top is 27-13/16" (706mm). The square corners of the glass are located on the right side.

HEIGHT DEDUCTIONS

78" (1981mm)	Overall Height of Door Opening
-	
7/16" (11mm)	Deduction for Sweep
= 77 -9/16" (1970mm)	Actual Glass Height

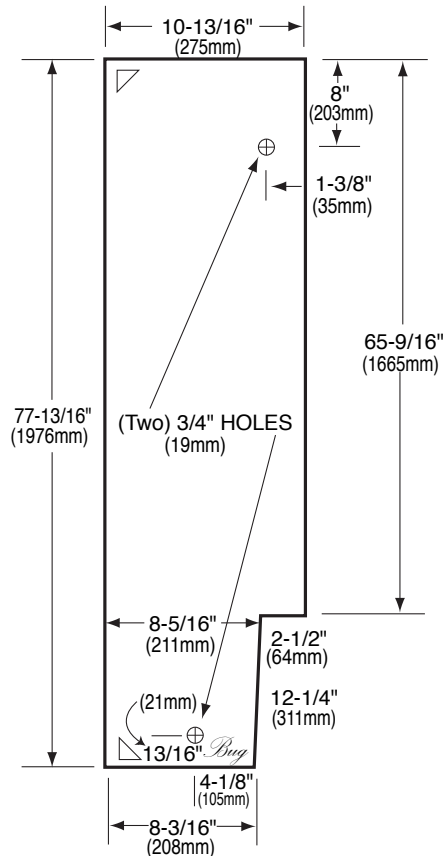
WIDTH DEDUCTION

Bottom	Top
28" (711mm)	28 - 3/16" (716mm)
-	-
3/8" (10mm)	3/8" (10mm)
= 27 -5/8" (701mm)	= 27 - 13/16" (706mm)
Actual Glass Width	Actual Glass Width

Guidelines for Hinge Placement are Shown on Page 2-15. All Templates are Found in Section 4.

Enclosure #3 - Glass Sizes for Notched Fixed Panel

Final Glass Sizes



NOTCHED PANEL

Guidelines for Clamp Placement are Shown on Page 2-21.

All Templates are Found in Section 4.

Sizing The Notched Fixed Panel:

Height: When sizing a glass panel that is to be silicone to another glass panel, it is important to determine which method of joining these two panels will be used. The method indicated in the General Elevation Drawing provided is shown to be an overlapping joint (butt-joint). The notched panel that is inline with the door will be the panel that overlaps the 90 degree return panel. The measurements given with this drawing are center-line dimensions. The overall height of the knee-wall (butress) is shown to be 12-1/4" (311mm). The overall height of the portion of the notched panel that sits on **top** of the knee-wall (where the overlap joint is located) is 65-3/4" (1670mm). Not only is this height shown in the General Elevation Drawing, it is additionally confirmed by taking the overall height on the left side of 78" (1981mm) and deducting the knee-wall height. To determine the actual glass **height** of the fixed panel, we must look at the means of mounting this fixed panel. It is shown that this fixed panel will be mounted in a Fixed Panel U-Clamp. The height deduction for this clamp is 3/16" (5mm). This deduction will leave a 3/16" (5mm) gap between the bottom of the glass and the surface that the clamp is mounted to. This is an important relationship that will be further addressed. The actual glass height on the left (door) side is 77-13/16" (1976mm). For the gaps to remain consistent, a 3/16" (5mm) deduction will take place on the knee-wall portion for an actual glass height of 65-9/16" (1665mm). The actual knee-wall (butress) height of 12-1/4" (311mm) doesn't change, as the panel can be raised 3/16" (5mm) only once.

Width: The actual glass **width** is figured in stages. The first stage is to figure the width at the bottom of the notched panel. The out-of-plumb condition on the knee-wall is shown in the drawing to be 1/8" (3mm). The overall width of the bottom portion of the panel is noted as being 8-3/8" (213mm) wide, while at the top of the knee-wall the overall panel width is 8-1/2" (216mm). A deduction of 3/16" (5mm) is required to maintain a consistent gap. The actual glass width at the bottom of this panel is 8-3/16" (208mm). The actual glass width at the point where the panel is notched is 8-5/16" (211mm). The second stage is to note that the center-line overall dimension of the notched section that sits on the knee-wall is 2-1/8" (54mm). We first **add** 3/16" (5mm) to the center-line dimension to convert it to the overlapping panel. We now must **add** an additional 3/16" (5mm) to account for the 3/16" (5mm) that was deducted off the lower portion of this panel. The **net addition** to the center-line dimension of 2-1/8" (54mm) is 3/8" (10mm). The actual glass width for the notched portion on the knee-wall is 2-1/2" (64mm). To get the width at the top of this panel, add the 2-1/2" (64mm) portion to the 8-5/16" (211mm) width next to it. This results in an actual glass width of 10-13/16" (275mm) at the top of the notched panel. The square corners of the glass are located on the left side.

Left Side	
78 (1981mm)	Overall Height
-	3/16" (5mm) Deduction for Clamp
<hr/>	
= 77 - 13/16"	(1976mm) Actual Glass Height

HEIGHT DEDUCTIONS

Right Side	
65 - 3/4" (1670mm)	Overall Height
-	3/16" (5mm) Deduction for Clamp
<hr/>	
= 65 - 9/16"	(1665mm) Actual Glass Height
<small>(12-1/4" (311mm) vertical strip remains the same as explained in text above)</small>	

Bottom	
8 - 3/8" (213mm)	Overall Width
-	3/16" (5mm) Deduction for Clearance
<hr/>	
= 8 - 3/16"	(208mm) Actual Glass Width

WIDTH DEDUCTION

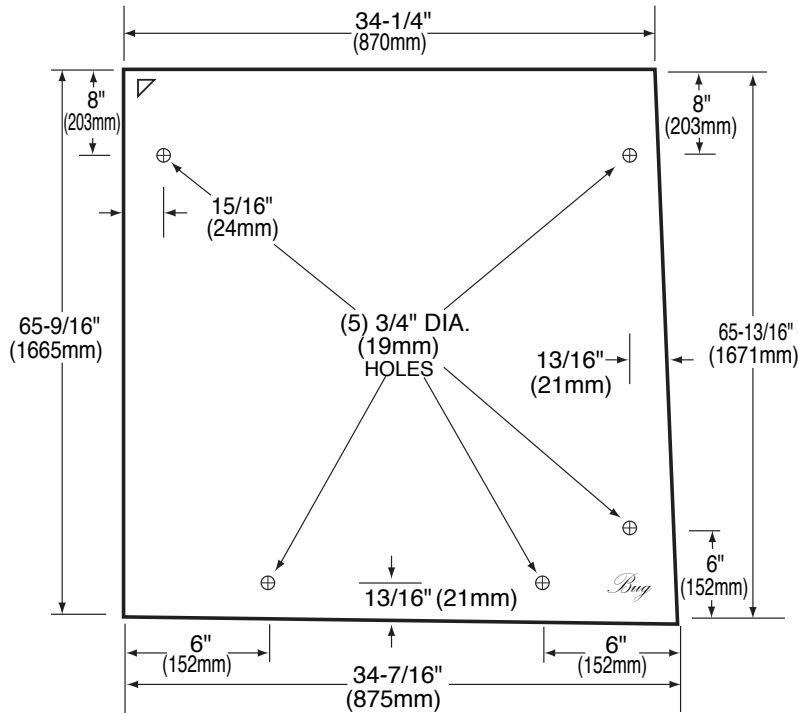
Knee-Wall	
8 - 1/2" (216mm)	Overall Width
-	3/16" (5mm) Deduction for Clearance
<hr/>	
= 8 - 5/16"	(211mm) Actual Glass Width

Notch on Knee-Wall	
2 - 1/8" (54mm)	Center-Line Measurement on Knee-Wall
+	3/16" (5mm) Add to Convert to Overlapping Panel
<hr/>	
+	3/16" (5mm) Addition for Clearance
<hr/>	
= 2 - 1/2"	(64mm) Actual Glass Width (Notch on Knee-Wall)

Note: Glass size for top width 10-13/16" (275mm) was calculated by simply adding 8-5/16" (211mm) (width at notched area) plus 2-1/2" (64mm) (notched portion).

Enclosure #3 - Glass Sizes for Return Panel

Final Glass Sizes



RETURN PANEL ON KNEE-WALL

Sizing the Return Panel on the Knee-wall:

Height: To determine the **height** of the panel that sits on the knee-wall, we must address the out-of-level condition. The overall height on the left (overlapping) side is shown as being 65-3/4" (1670mm). The outage on the surface of the knee-wall is noted as being 1/4" (6mm). Therefore, the overall height on the right (wall) side is 66" (1676mm). This panel is mounted in Fixed Panel U-Clamps, which will require a 3/16" (5mm) deduction. The actual glass height on the left (overlapping) side is 65-9/16" (1665mm). You will note that is the same glass height as the notched panel that will be glazed to this panel. The actual glass height on the right (wall) side is 65-13/16" (1671mm).

Width: The **width** is figured by first converting the center-line dimension to that of a butting panel. For this conversion, a 3/16" (5mm) **deduction** must be made off the center-line dimension. We now deduct 1/16" (1.5mm) for the silicone joint that will bond the glass. An additional 3/16" (5mm) is to be deducted to allow for the clamps on the vertical wall. The **net deduction** from the overall center-line dimension is 7/16" (11mm). The out-of-plumb condition on the vertical wall is shown to be 3/16" (5mm). The overall center-line width at the bottom is 34-7/8" (886mm), at the top the overall width is noted as being 34-11/16" (881mm). By taking the deduction of 7/16" (11mm) off center-line dimension, we have an actual glass width at the bottom of 34-7/16" (875mm), and the actual glass width at the top is 34-1/4" (870mm). The square corner is located in the top left corner on the glass.

HEIGHT DEDUCTIONS

Left Side		Right Side	
65 - 3/4" (1670mm)	Overall Height	66" (1676mm)	Overall Height
- 3/16" (5mm)	Deduction for Clamp	- 3/16" (5mm)	Deduction for Clamp
<hr/>		<hr/>	
= 65 - 9/16" (1665mm)	Actual Glass Height	= 65 - 13/16" (1671mm)	Actual Glass Height

Guidelines for Clamp Placement are Shown on Page 2-21. All Templates are Found in Section 4.

WIDTH DEDUCTIONS

Bottom		Top	
34- 7/8" (886mm)	Center-line Measurement	34- 11/16" (881mm)	Center-line Measurement
- 3/16" (5mm)	Deduction to Convert to Butting Panel	- 3/16" (5mm)	Deduction to Convert to Butting Panel
- 1/16" (1.5mm)	Deduction for Silicone	- 1/16" (1.5mm)	Deduction for Silicone
- 3/16" (5mm)	Deduction for Clamp on Vertical Wall	- 3/16" (5mm)	Deduction for Clamp on Vertical Wall
<hr/>		<hr/>	
= 34 - 7/16" (875mm)	Actual Glass Width	= 34 - 1/4" (870mm)	Actual Glass Width

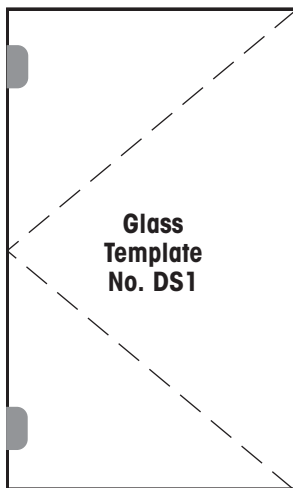
Ten Most Popular Designs

In this area of the guide we have taken ten of the most popular designs you will encounter, shown hinged left or right in each case, and assigned glass panel identification numbers to each enclosure. Pages 2-46 through 2-60 are matching pre-drawn templates to allow you to fill in the dimensions appropriate for your job.

Simply locate the design of the enclosure you are working on, identify the assigned glass panel identification numbers, and pull those sheets for copying so that you may use them as worksheets. Make sure you have made copies of all of the panel identification pages so you can reuse them as they are needed.

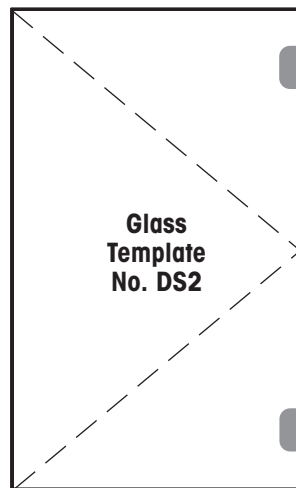
The following drawings represent the majority of the enclosures that you will encounter. There are also going to be designs and configurations that are not represented in these drawings. Our Technical Sales Department has reviewed thousands of shower door drawings, and can advise you of the safest and best options that exist for your individual configuration. For this additional assistance, please call our Technical Sales Department at (800) 421-6144 ext. 7740.

Side Mount Hinges



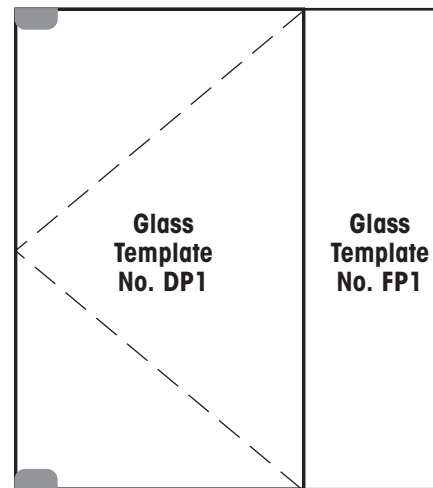
SINGLE DOOR,
HINGED LEFT

Side Mount Hinges



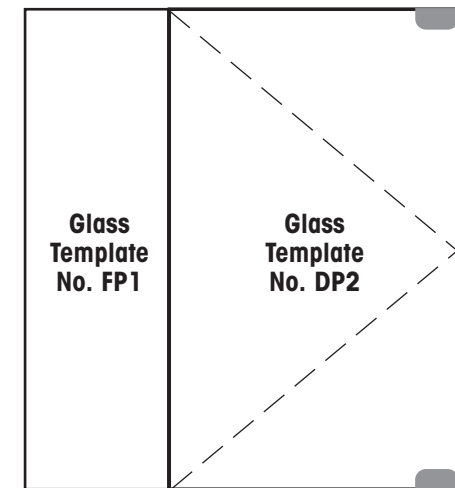
SINGLE DOOR,
HINGED RIGHT

Top and Bottom Pivot Hinges



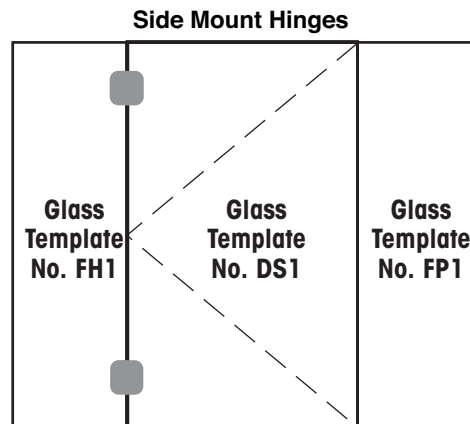
DOOR WITH INLINE PANEL,
HINGED LEFT

Top and Bottom Pivot Hinges

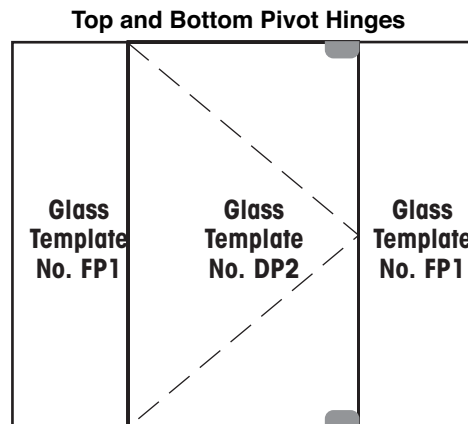


DOOR WITH INLINE PANEL,
HINGED RIGHT

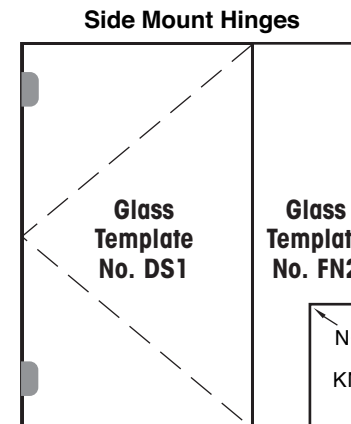
Ten Most Popular Designs



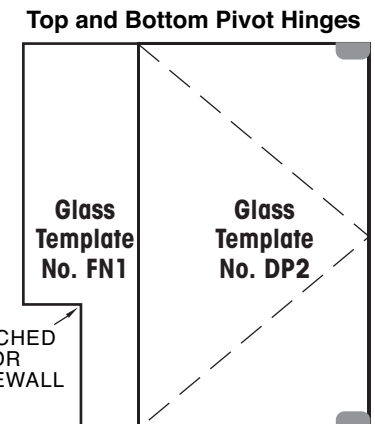
SINGLE DOOR BETWEEN TWO INLINE PANELS, HINGED LEFT



SINGLE DOOR BETWEEN TWO INLINE PANELS, HINGED RIGHT

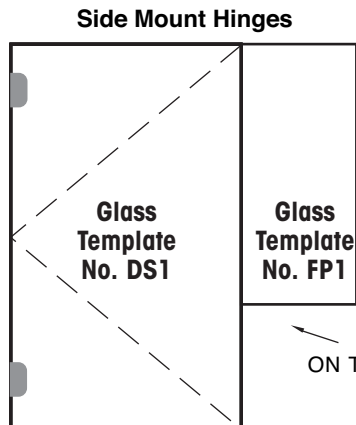


SINGLE DOOR WITH NOTCHED INLINE PANEL, HINGED LEFT

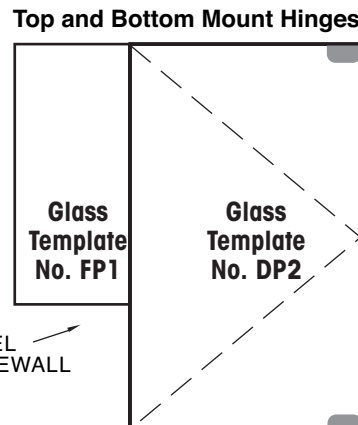


SINGLE DOOR WITH NOTCHED INLINE PANEL, HINGED RIGHT

NOTCHED FOR KNEEWALL

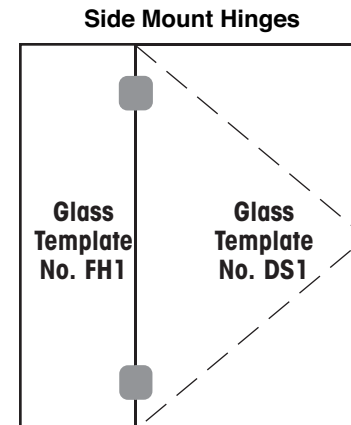


SINGLE DOOR WITH FIXED PANEL ON KNEE WALL, HINGED LEFT

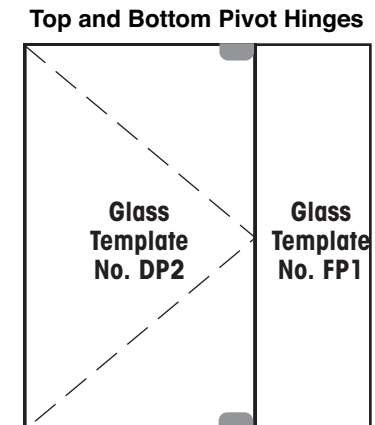


SINGLE DOOR WITH FIXED PANEL ON KNEE WALL, HINGED RIGHT

FIXED PANEL ON TOP OF KNEEWALL

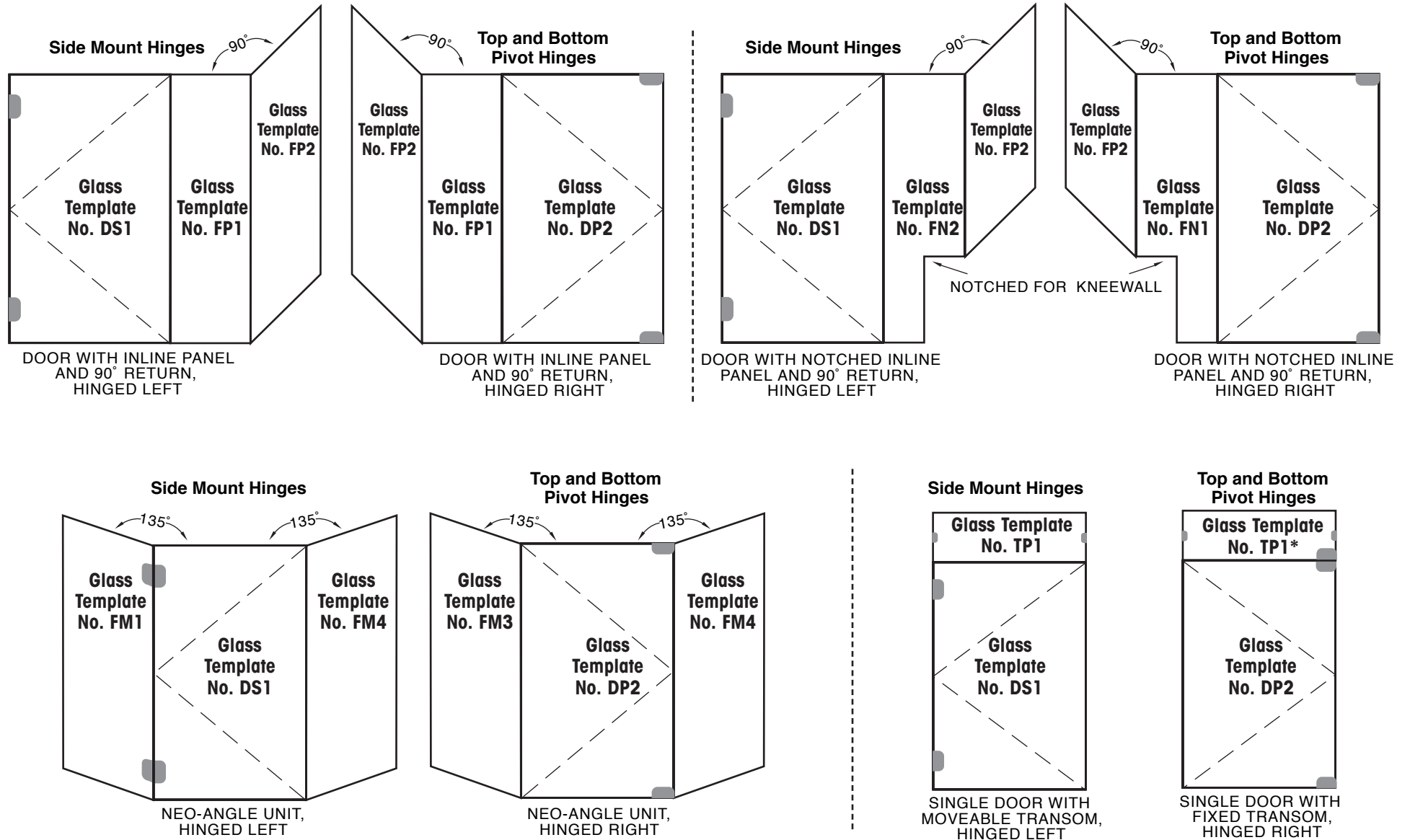


SINGLE DOOR HINGED OFF OF INLINE PANEL, HINGED LEFT



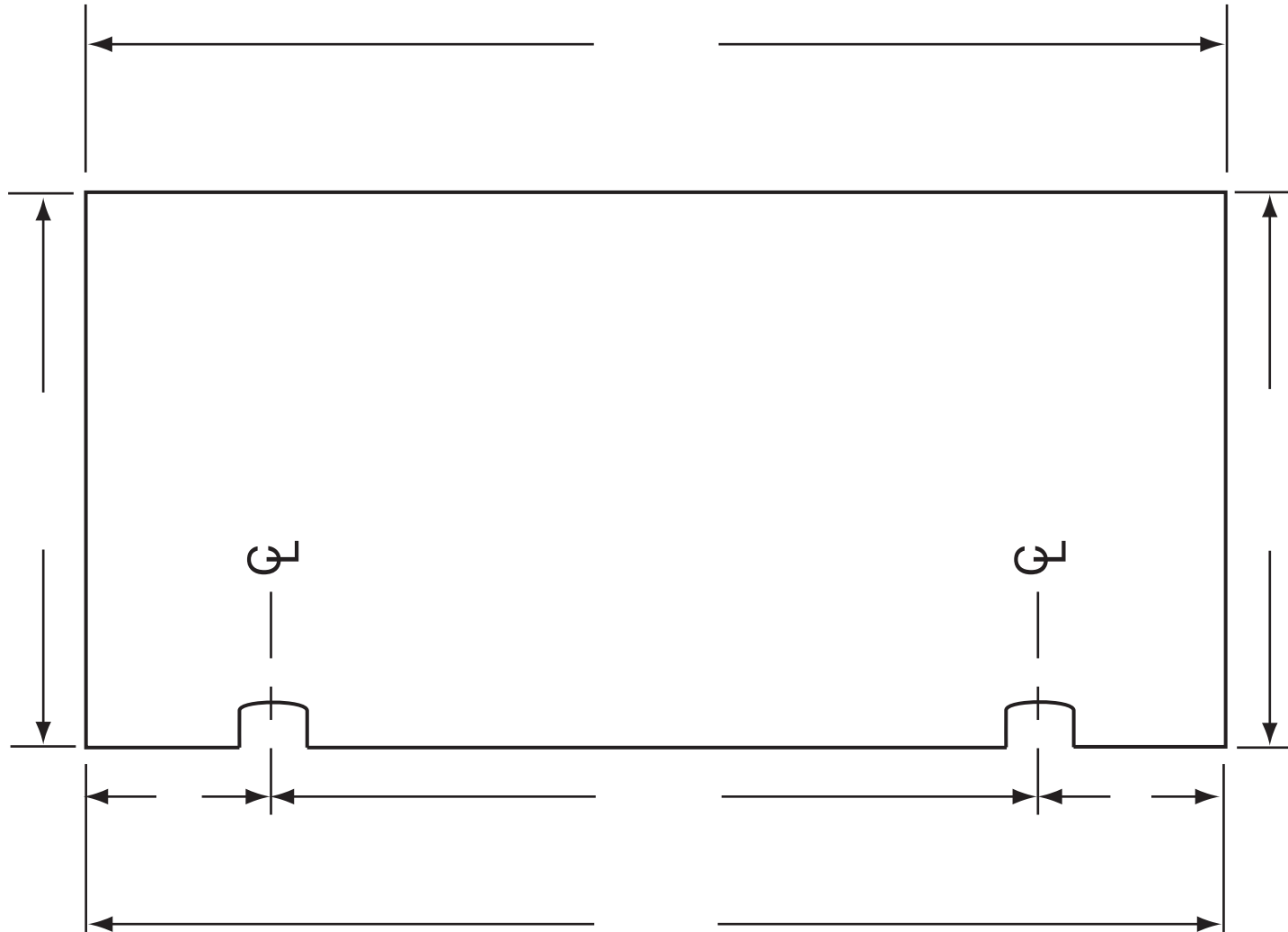
SINGLE DOOR HINGED OFF OF INLINE PANEL, HINGED RIGHT

Ten Most Popular Designs



No.DS1 Door Glass Template - (Side Mount, Hinge Left)

No.DS1 Door Glass Template - (Side Mount, Hinge Left)

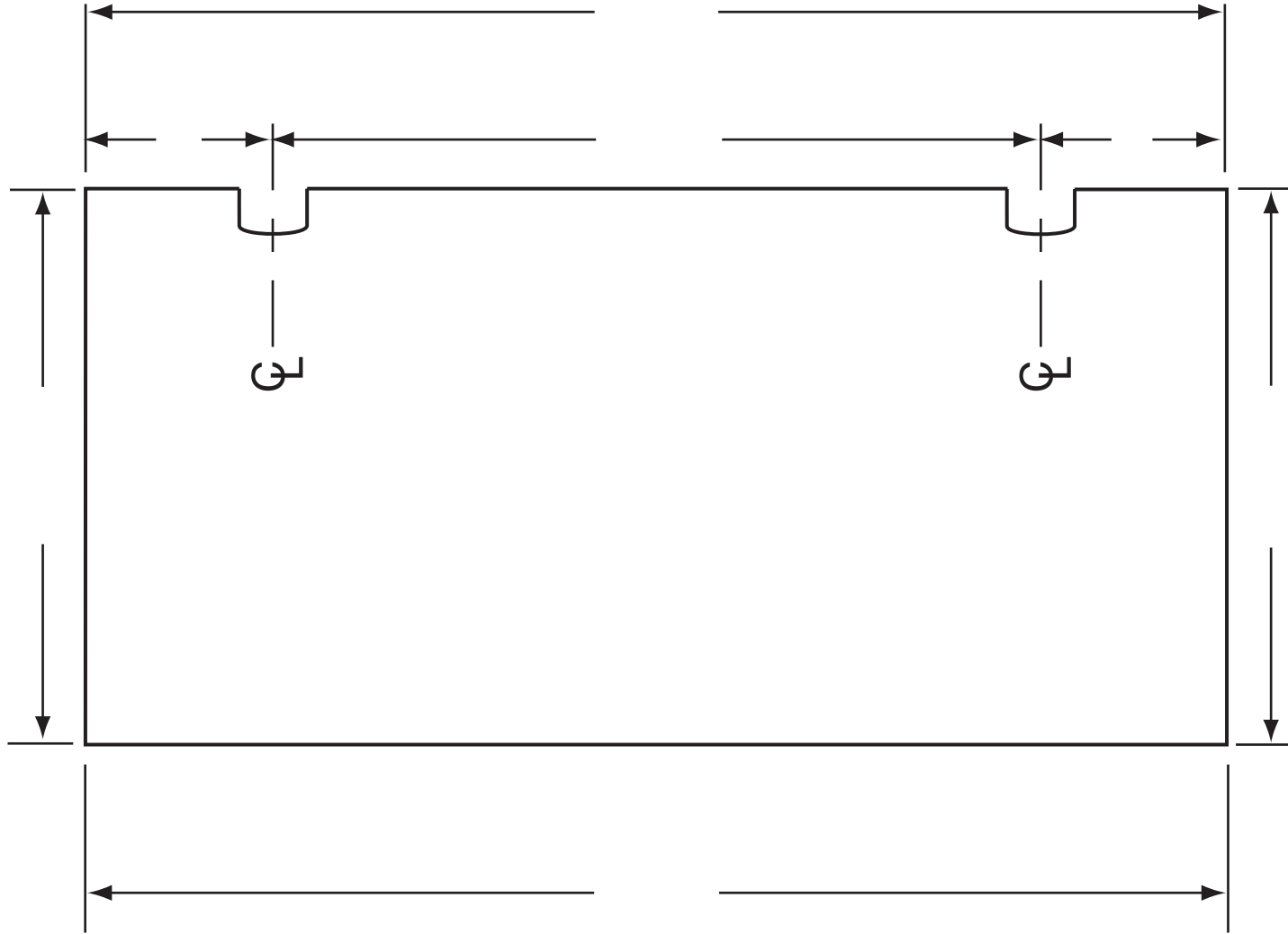


All hinge cutouts are illustrated generically and dimensioned to the center-line of the hinge. Include the appropriate template from Section 4 with this drawing.



No.DS2 Door Glass Template - (Side Mount, Hinge Right)

No.DS2 Door Glass Template - (Side Mount, Hinge Right)

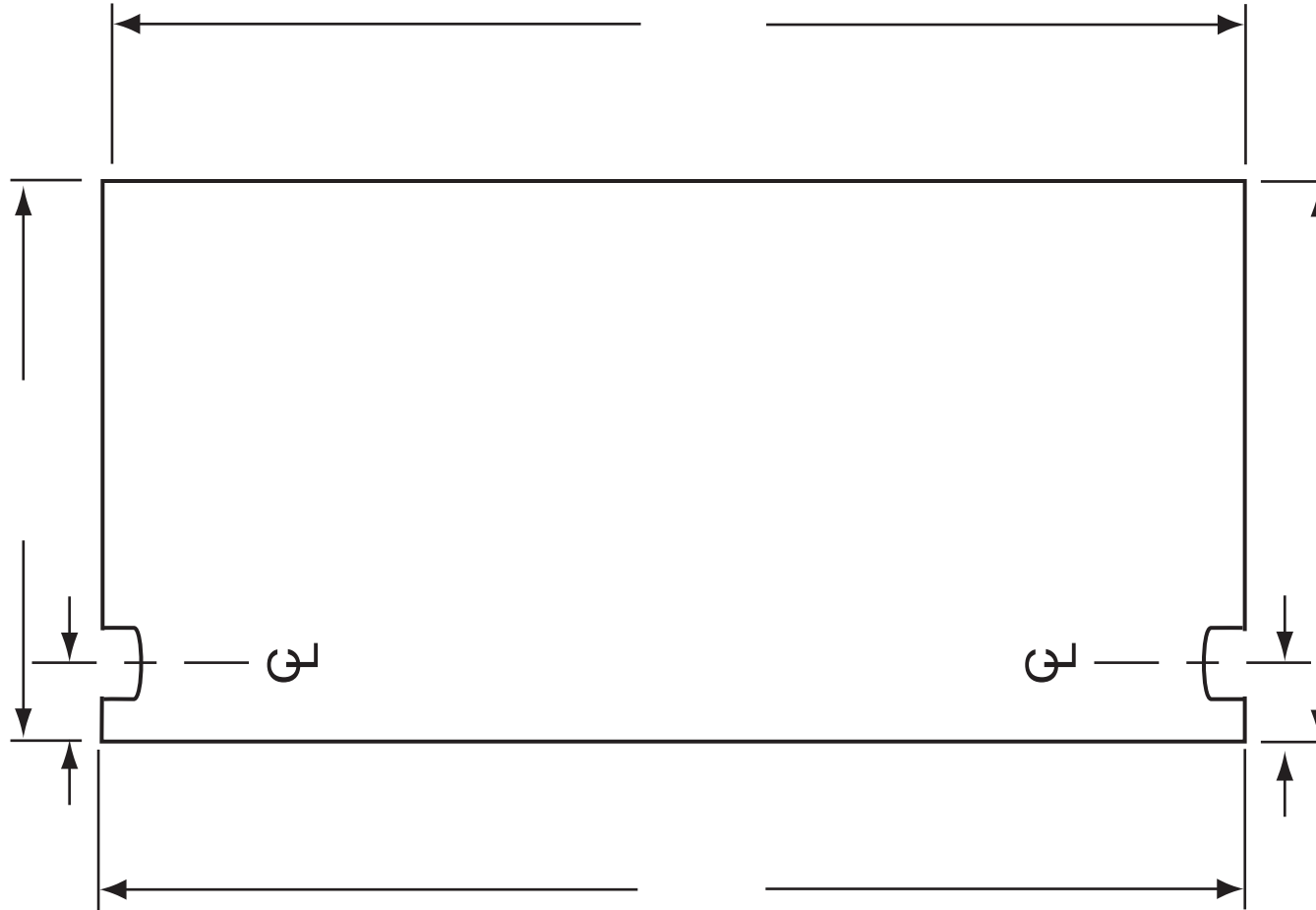


All hinge cutouts are illustrated generically and dimensioned to the center-line of the hinge. Include the appropriate template from Section 4 with this drawing.



No.DP1 Door Glass Template - (Top and Bottom Mount, Hinge Left)

No.DP1 Door Glass Template - (Top and Bottom Mount, Hinge Left)

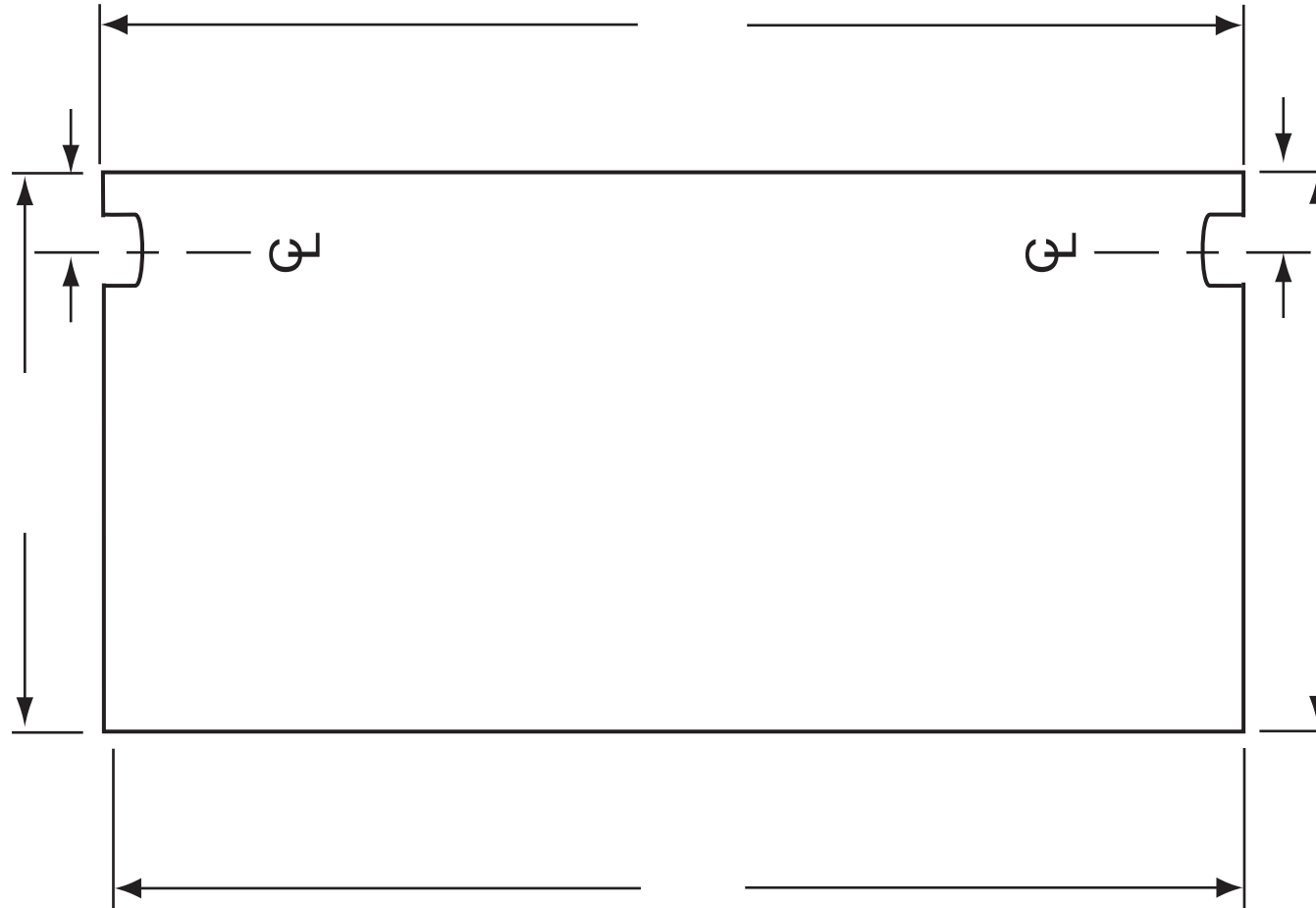


All hinge cutouts are illustrated generically and dimensioned to the center-line of the hinge. Include the appropriate template from Section 4 with this drawing.



No.DP2 Door Glass Template - (Top and Bottom Mount, Hinge Right)

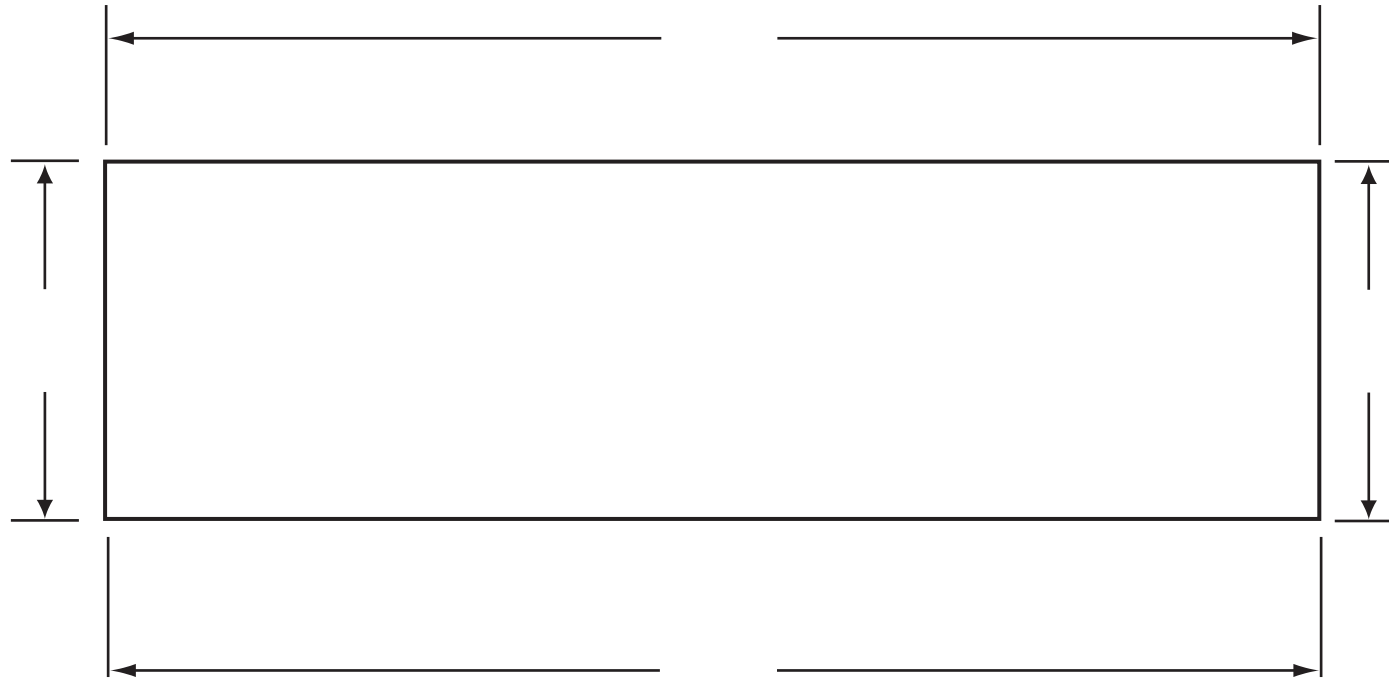
No.DP2 Door Glass Template - (Top and Bottom Mount, Hinge Right)



All hinge cutouts are illustrated generically and dimensioned to the center-line of the hinge. Include the appropriate template from Section 4 with this drawing.



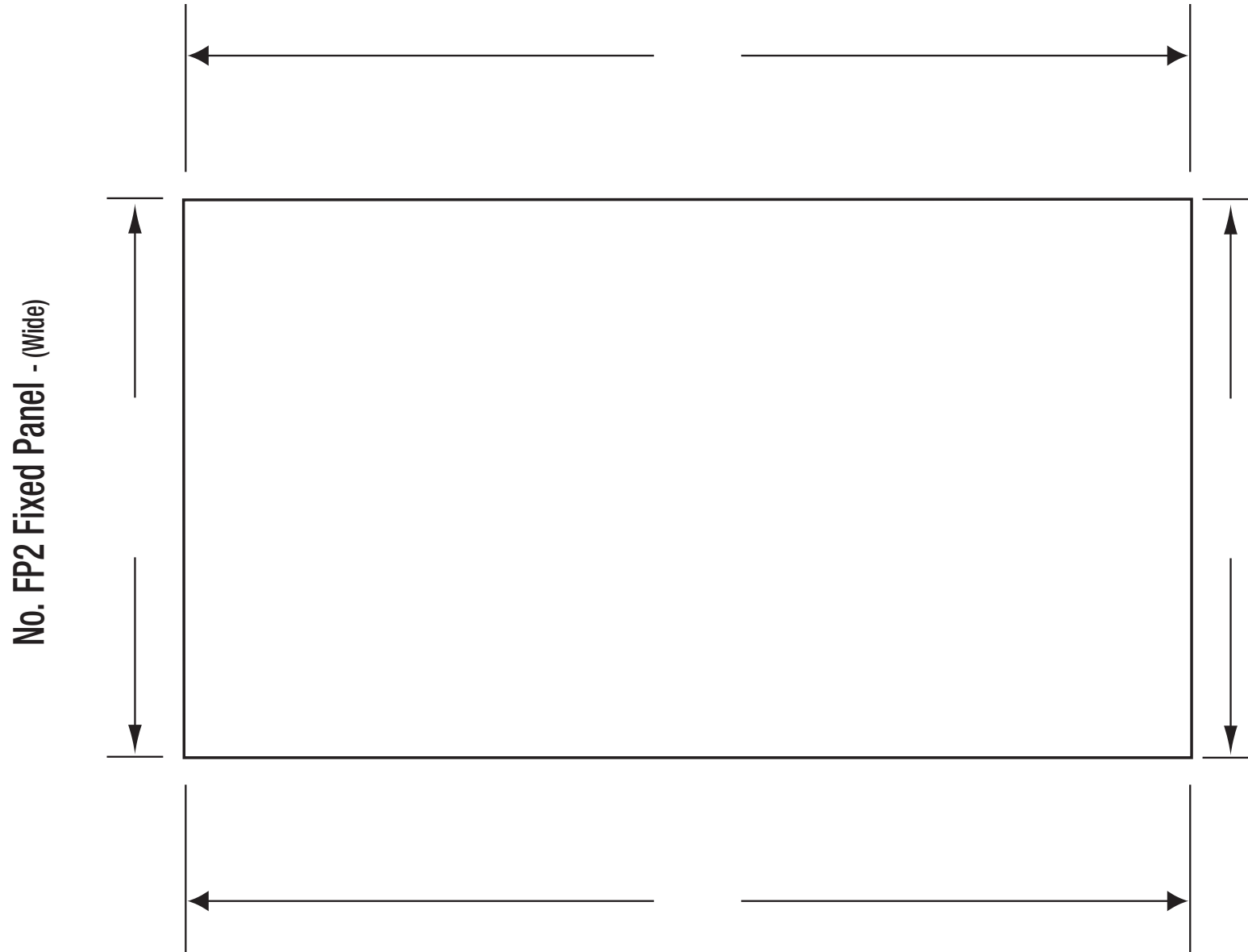
No. FP1 Fixed Panel - (Narrow)



NOTE: To make any panel mitered, simply illustrate the dotted "miter line."



No.FP2 - Fixed Panel - (Wide)



NOTE: To make any panel mitered, simply illustrate the dotted "miter line."

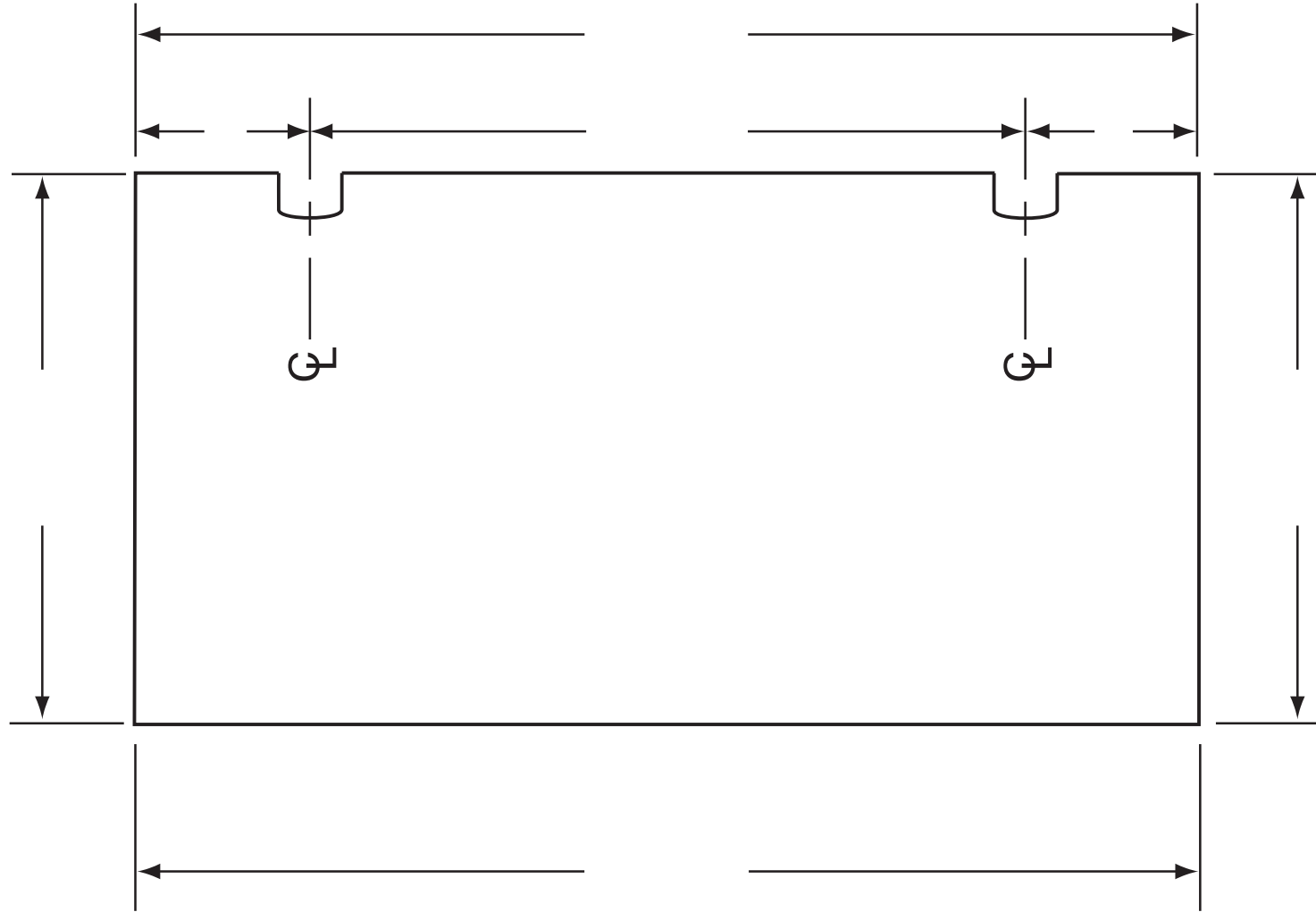


**Save the Original
Make a Copy**



No.FH1 Fixed Panel - (Hinge Cutouts on Right Side)

No.FH1 Fixed Panel - (Hinge Cutouts on Right Side)



All hinge cutouts are illustrated generically and dimensioned to the center-line of the hinge. Include the appropriate template from Section 4 with this drawing.

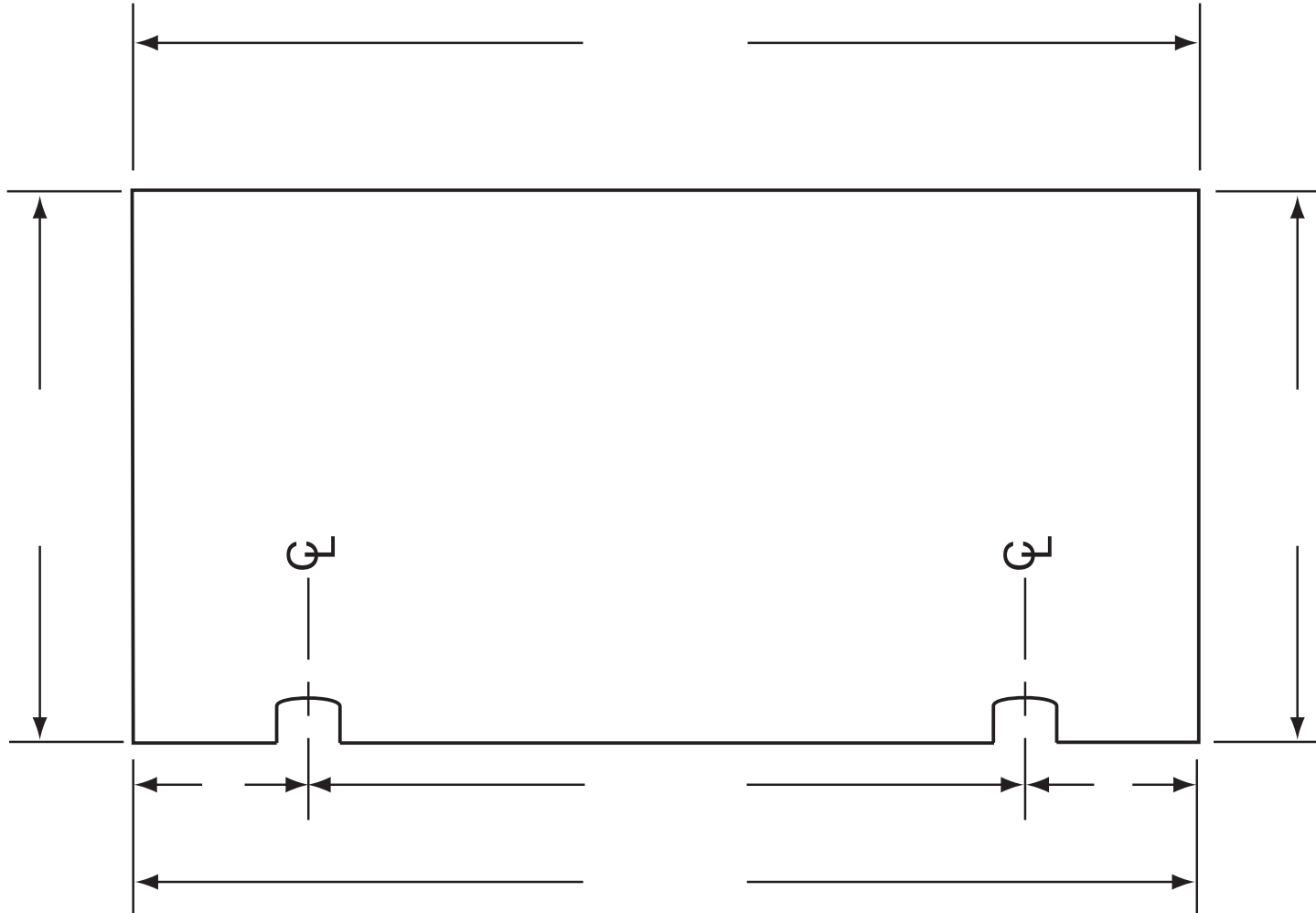


**Save the Original
Make a Copy**



No.FH2 Fixed Panel - (Hinge Cutouts on Left Side)

No.FH2 Fixed Panel - (Hinge Cutouts on Left Side)



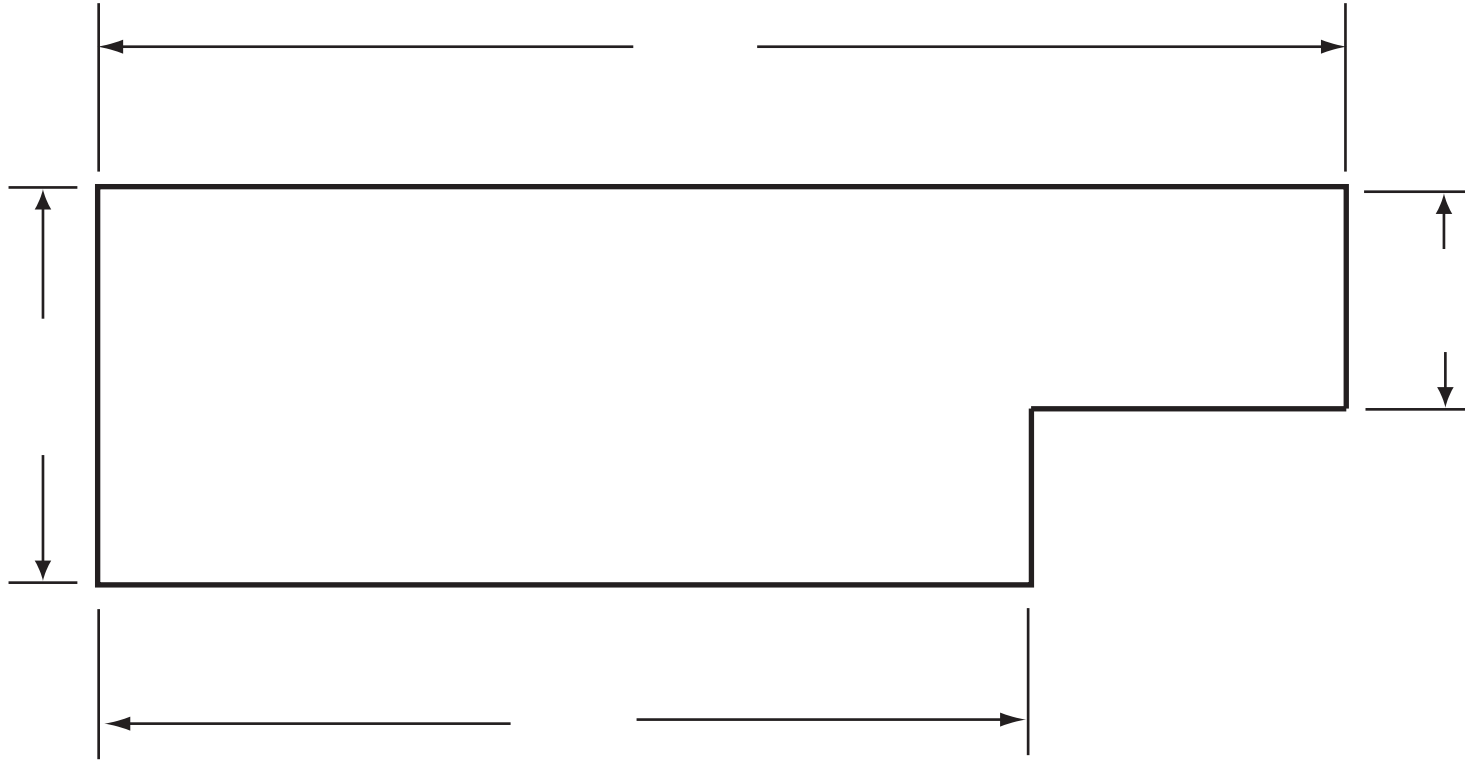
All hinge cutouts are illustrated generically and dimensioned to the center-line of the hinge. Include the appropriate template from Section 4 with this drawing.



Save the Original
Make a Copy

No.FN1 Fixed Panel - (Notched in Bottom Left Corner)

No.FN1 Fixed Panel - (Notched in Bottom Left Corner)

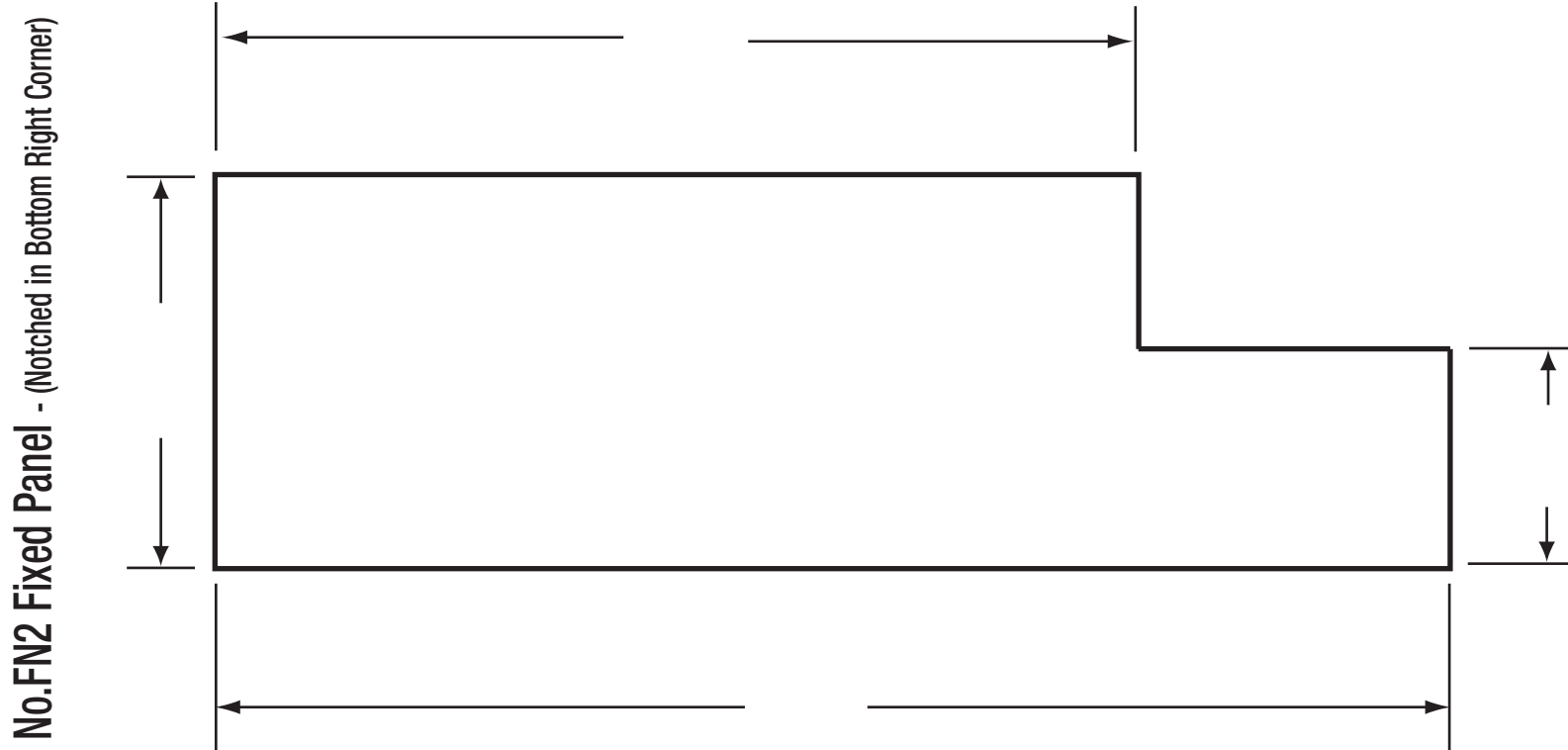


NOTE: To make any panel mitered, simply illustrate the dotted "miter line."



**Save the Original
Make a Copy**

No.FN2 Fixed Panel - (Notched in Bottom Right Corner)



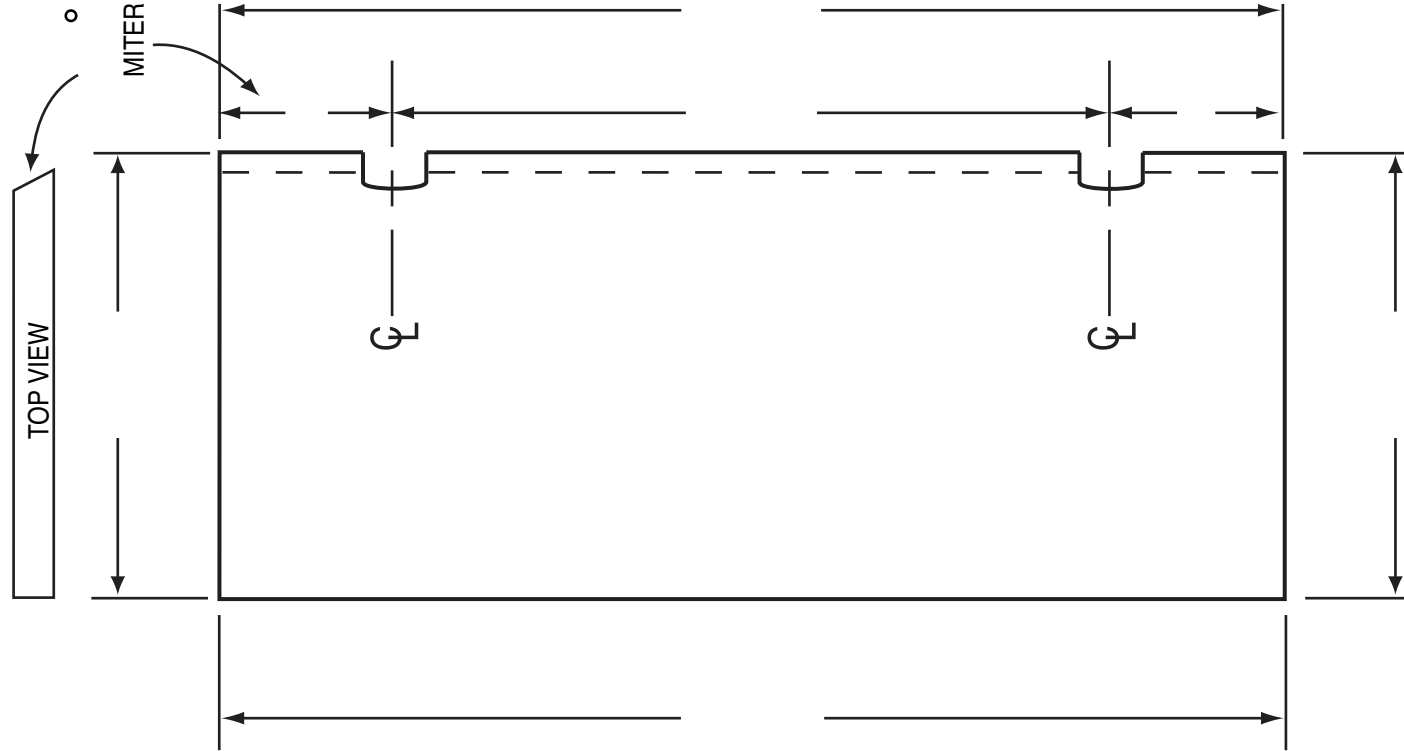
No.FN2 Fixed Panel - (Notched in Bottom Right Corner)

NOTE: To make any panel mitered, simply illustrate the dotted "miter line."



No.FM1 Fixed Panel - (Miter and Hinge Cutouts on Right Side)

No.FM1 Fixed Panel - (Miter and Hinge Cutouts on Right Side)

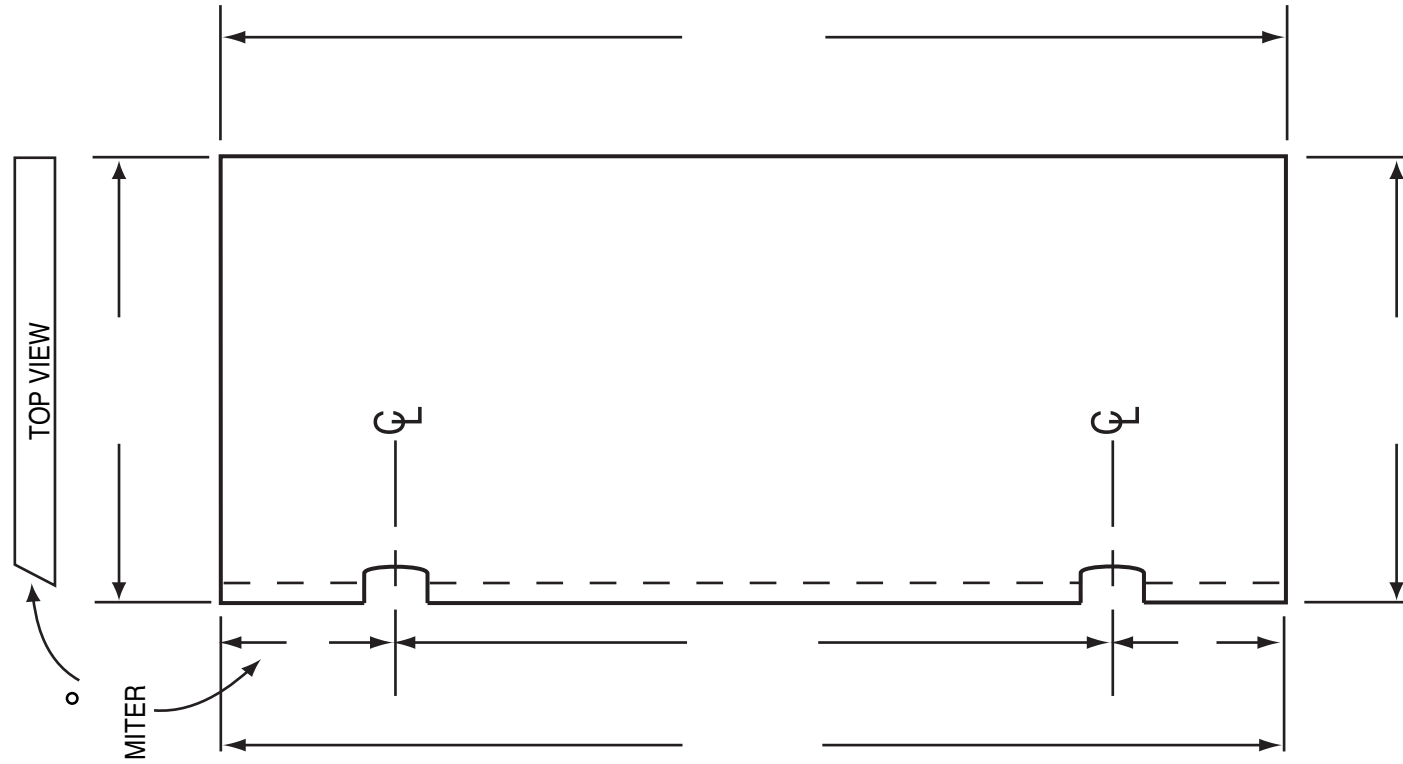


All hinge cutouts are illustrated generically and dimensioned to the center-line of the hinge. Include the appropriate template from Section 4 with this drawing.



No.FM2 Fixed Panel - (Miter and Hinge Cutouts on Left Side)

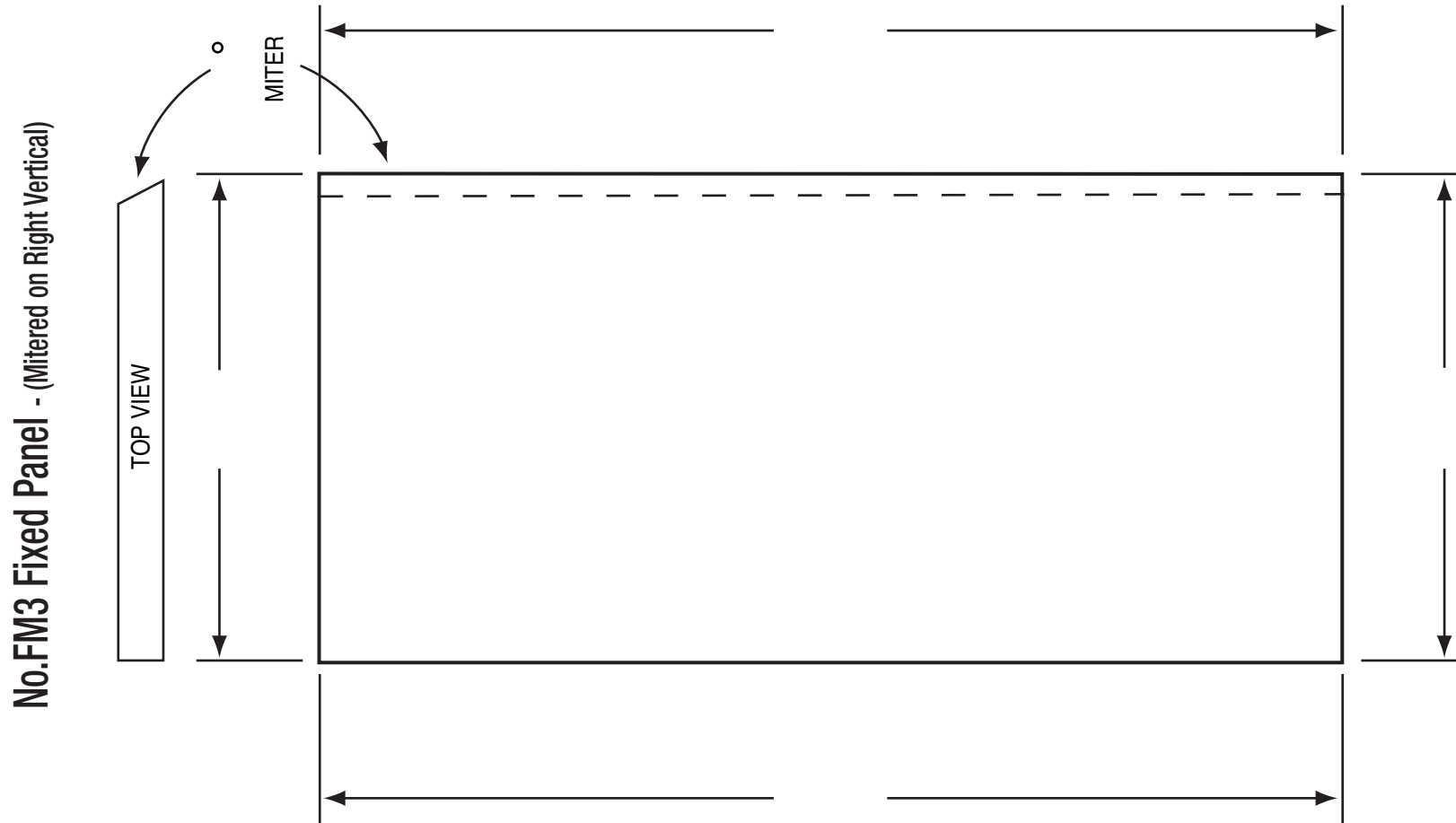
No.FM2 Fixed Panel - (Miter and Hinge Cutouts on Left Side)



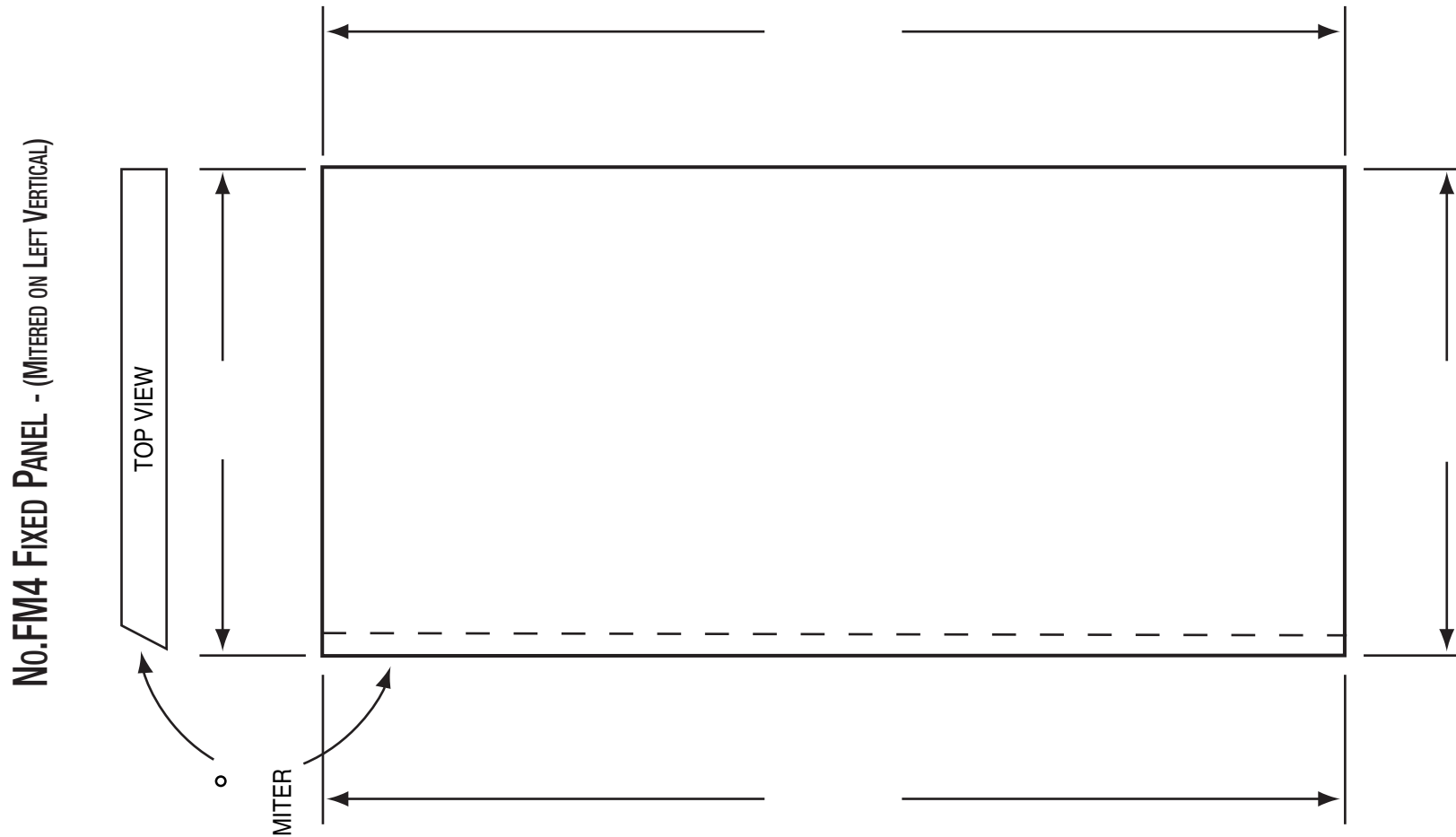
All hinge cutouts are illustrated generically and dimensioned to the center-line of the hinge. Include the appropriate template from Section 4 with this drawing.



No.FM3 Fixed Panel - (Mitered on Right Vertical)

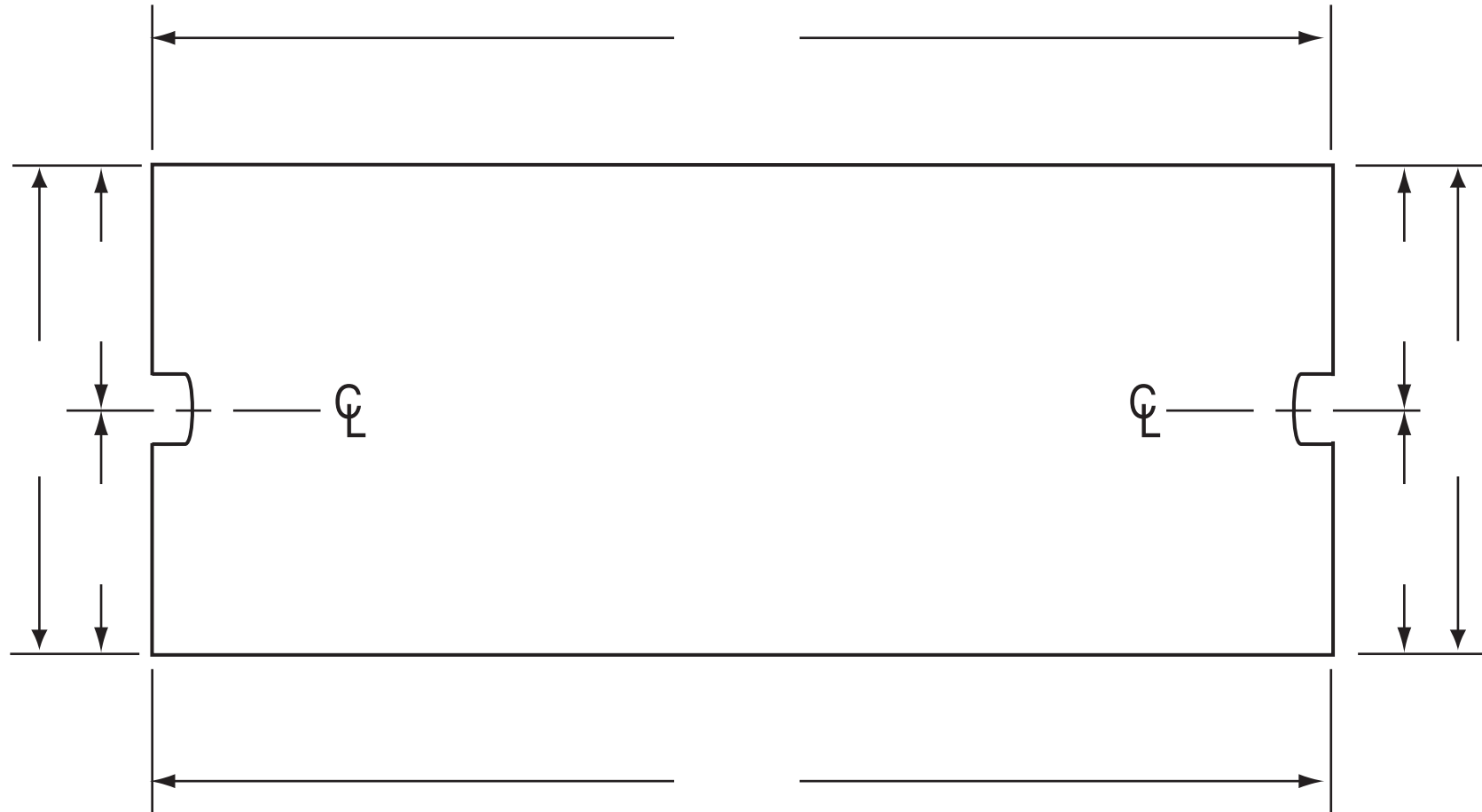


No.FM4 Fixed Panel - (Mitered on Left Vertical)



No. TP1 - Transom Panel - (Fixed or Moveable)

No. TP1 - Transom Panel - (Fixed or Moveable)



All cutouts are illustrated generically and dimensioned to the center-line of the hinge.
Include the appropriate template from Section 4 with this drawing.



**Save the Original
Make a Copy**



In this section of the book we address the actual installation of the frameless shower enclosure. All the planning, designing and fabrication that you have done has led to this point. If all of the preparation leading to installation was done properly, the installation itself may turn out to be the easiest step of all.

We will divide this section of the book into several areas of installation. Details of the many facets of installation will be covered as follows:

- Installation considerations based on the most frequently asked questions we receive. This will consist of suggestions and precautions that will assist you with a successful installation. As you read this information, you will note that several suggestions revolve around making sure certain things are done before you get to the jobsite. Costly repeat visits to the customer's home are obviously expensive in terms of time and money.
- Common Installation Problems are addressed. We hope that your design plans helped you to avoid these problems, but in case you run across one of these common dilemmas, we have documented the problem and provided you the solutions or alternatives in many cases.
- Tools and supplies that you can use for basic installations as well as specialty situations.
- General instructions related to installation of most all of our products such as hinges, pull handles, knobs, towel bars, U-Channel, glass clamps, our Deluxe Header Kit and more.

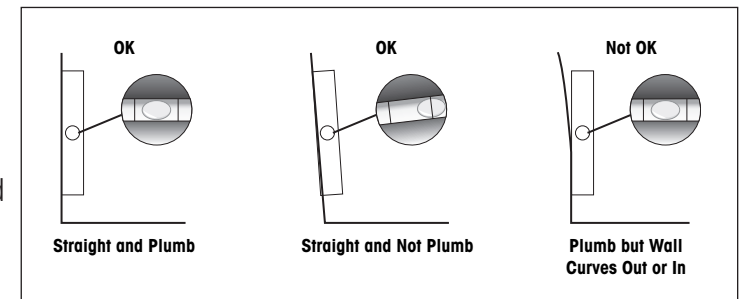
The first three publications of our Frameless Shower Door Hardware & Supplies Catalog featured beautifully finished installation photos. Many of our customers graciously shared these photos with us so that we could show other customers finished versions of elegant frameless shower enclosures. We encourage you to take photos of enclosures you complete, and begin a portfolio. After all, you know all the planning, designing and fabrication that took place before the job was completed. Imagination and vision have become a reality. Quality component hardware has been transformed into a modern frameless shower enclosure that can be enjoyed for years to come.

Installation Considerations - (Based on Most Frequently Asked Questions)

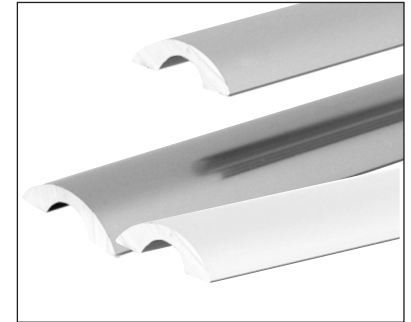
- **Don't wait to measure your glass at the jobsite.** Measure your glass dimensions, cutouts and hole locations prior to leaving for the jobsite. Check to see that the glass is not warped. This will prevent an unnecessary trip to the jobsite.
- **Don't install warped glass panels, hoping that the U-channel or clamps will straighten out the panel.** This will put the panel under tension, and increase the chances of the panel breaking.
- **Don't use any clamping type hardware, such as hinges, clamps, handles and knobs without the proper cushioning gaskets.** Metal-to-glass contact can cause the tempered glass to explode.
- **Don't use an electric drill to tighten either the back plate or the inside cover plate.** Only use a screw gun that has adjustable torque settings. Set the torque on a lower setting, and drive the screw until it's almost seated. Do the final tightening with a hand screwdriver. Hint: When mounting wall mount hinges, protect the cover plates from being damaged by contact with the screw head or the screw gun chuck. Place a small sheet of plastic such as a Tupper-Ware lid between the cover plate and the screw. If the screw head angles in while being secured, it will hit the plastic lid and not mar the finish of the cover plate.
- **Don't use a Phillips screwdriver or screw gun bit that has a worn or rounded tip to tighten shower door screws.** They will always damage or strip the Phillips slot in the screw head, and prevent obtaining the proper torque needed to secure the hinge. Also, be sure to use the correct tip size for the screw you are securing (#2 for the 10 x 2 flat head screws that mount the back plate to the wall, #2 for 5mm inside cover plate screws and #3 for 6mm inside cover plate screws).
- **It is important to use the proper lubricant if oiling C.R. Laurence hinges.** If it is a pre-installation application use white lithium grease. The thick consistency works well if the hinges are disassembled and you are lubricating. If it is a post-installation lubrication, use 3 in 1 Oil. The applicator tip allows you to get into smaller areas and lubricates properly. Do not use WD40 or a similar spray under any circumstance.
- **If you use vinyl seals, apply a light coat of petroleum jelly to the surfaces that come in contact with the glass or wall.** This will prevent sticking or chattering, and allow smoother closing action of the door.

Common Installation Problems and Appropriate Solutions

- **You have a shower door unit that does not fall into the standard angles of 90°, 135°, or 180°. What can you do?** We are assuming at this point that you did not prepare for this situation at the designing stage. In Section 1 of this book we prepared a Design Consideration area that will allow you to better plan the next enclosure. Solving this problem after installation depends on the type of hinge you are using. Hopefully, you are using one of the hinge styles we offer that uses the reversible or custom angle pivot pin (Geneva, Pinnacle, Ultimate, Elite or Cathedral Series). You can change the angle of the hinge by 5° in or out by using the reversible pivot pin that comes with the hinge, or you can order custom angled pins from 1° to 45° that will meet your needs. The above hinges work off of a pivot point that is approximately 1-1/32" (26mm) off the wall, or the edge of the glass if glass-to-glass hinges are used. As you change the angle from the standard position, you will pull the hinge side of the glass off center-line, proportionate to the amount of angle change. Charts are located in Section 2 of this book to assist you in determining the effect angled pins have on the installation. Later in Section 3, we show information on changing or installing pivot pins.
- **A door is installed with wall mount hinges, but when the door is in the closed position it does not line up with the adjacent inline glass panel.** There are a couple of ways to correct this problem. First of all, loosen the screws that secure the back plate to the wall and place brass or stainless steel shim stock behind the back plate (shim stock is available from industrial hardware stores in thicknesses from .001" (.025mm) to .025" (.063mm). The strips of shim stock should be placed behind the back plate and between the screws. If you need the strike side edge of the glass to move in, place the shims behind the outside edge of the back plate. If you need the strike side edge of the glass to move out, place the shims behind inside edge of the back plate. After the shims are in place, tighten down the back plate. If the door is still not aligned, add or remove shims until alignment is correct. The second way to correct the situation, can be done if you are using hinges that come with reversible flat or 5° offset pivot pins. If you are closing the door into a angled stop or H-Jamb, you can rotate the reversible pivot pins to bring the door in or out 5°.
- **A door is installed with wall mount hinges, but doesn't operate smoothly. It seems to catch a little during operation.** After about a months operation the glass has slipped in the hinges, and is now rubbing on the curb. The solution is quite simple. Put a straight edge on the wall that the hinges are mounted on to see if the wall is straight. Guess what? Many times the wall is straight part of the way up, but then it slants either out or in. This is the cause of the problem (see **Page 2-4** in Section 2 for a complete explanation of straight and plumb). Hinges operate on pivot points, and both pivot points must be aligned or they will they will work against each other. When they are not aligned with each other and are clamped to a heavy piece of rigid glass that will not flex, the glass can slip in the hinges. The only solution to this problem is to put a shim behind the back plate of the hinge that is closer to the wall, spacing it out so it aligns with the pivoting point of the other hinge. If this situation is discovered when you do your measuring, you can use top and bottom pivot hinges and inset the cutout so that the pivot points on the top and the bottom match. Remember, the wall can be out of plumb, but it has to be straight.



- **The wipe on the bottom of the shower door rubs on the curb so tightly that the door is hard to open and close.** This can be caused by two reasons. First of all, perhaps not enough clearance was allowed at the bottom of the door. Secondly, the curb has so much inward slope that the wipe seals correctly in the closed position, but as the door opens and the slant of the curb increases, the clearance compresses the vinyl so much that it makes the door hard to open. This extreme inward slant of the curb should have been identified at the time the unit was measured, so corrective action could have been taken. The easiest way to compensate for a curb with an extreme slant is to install a Cat. No. SDT980 Threshold. The 1/4"(6mm) tall threshold creates a good seal at the center-line of the curb, but raises the vinyl seal enough so it won't pinch when the door is opened. If the door is already installed, the only solution is to select another seal that has a shorter wipe.
- **When you open the shower door water flows out and on the floor.** The usual reason for this happening is the curb is slanted outward or is level. When the door is opened the water runs down the slant, or in the level situation, as the wipe drags along the curb a capillary action takes place and the water follows the wipe. If this situation was identified at the time of measuring, a threshold could have been figured in along with the proper clearance on the bottom of the door. If the door is already installed and it has enough clearance, a Cat. No. SDT980 Threshold can still be installed but a shorter wipe or bulb seal must be used.
- **You have a neo-angle enclosure with a knee wall that has a square end instead of a 45° angle.** This will not be a problem as long as the knee wall is on the strike side of the door. Just miter the strike side of the door glass and everything will match up. However, if the wall is on the hinge side of the door you will have problems. Nobody makes a hinge that will work with a mitered piece of glass in the hinge. Even if you used top and bottom pivot hinges, the portion of the glass between the pivot point and the wall will swing in, since the wall end is square and the glass door is at a 135° angle. When the door is opened, the portion of the door that swings in will hit the wall. The only solution to hinging a door off a square end knee wall is to place a 6" (152mm) mitered fixed panel next to the wall, and hinge the door off the other side of that panel using 180° inline glass-to-glass hinges (if the opening is wide enough to accommodate the 6" (152mm) fixed panel plus a satisfactory door width). If the knee walls of your unit are mitered at a 45° angle, you will be able to use standard hinges with no problems.
- **You have a shower door you want to apply seals to, but no matter how much you adjust the shower door, you still have a tapered gap. How can you seal this gap?** Depending on the severity of the difference in the gap's width you can do one of the following. On gaps that taper from 1/32" (1mm) to 3/32" (2mm), the seals are usually flexible enough to compensate for the difference. On gaps that taper from 1/8" (3mm) to 5/16" (8mm), depending on how wide the widest portion of the gap is (not over 5/16" (8mm)), you can use the Cat. No. SDTDF Double Fin Seal. Allow the longer fin to seal until it becomes tight, then trim away the balance of the longer fin leaving the shorter fin to seal the balance of the gap. On wider gaps that do not exceed 1/2" (12mm) maximum, you can use Cat. No. SDTW T-Wipe. Take two 1" (25mm) x 4" (102mm) boards and clamp one leg of the small top T between them. This will hold the vinyl straight and rigid. Then take a straight edge and lay it on top of long leg of the vinyl. Move one end of the straight edge in to the smallest width you want and the other end to the widest width you want, then trim off excess with a razor blade.



Recommended Tools and Supplies

RECOMMENDED TOOLS FOR INSTALLATION OF FRAMELESS ENCLOSURES

As it has been previously noted in this book (Design Considerations in Section 1), the tools that can be used for frameless enclosures are varied. There are some tools that you must have; some tools you should have; and some tools you could have.

TOOLS YOU MUST HAVE

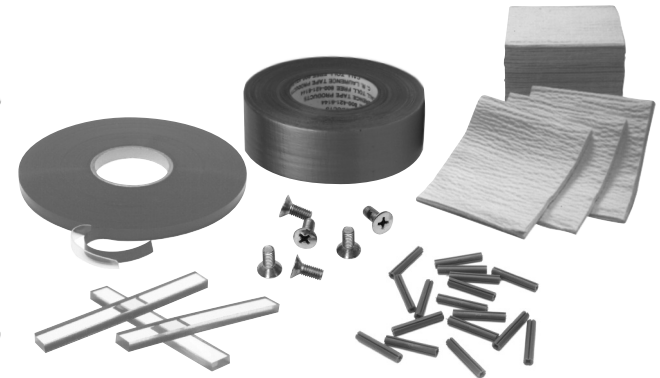
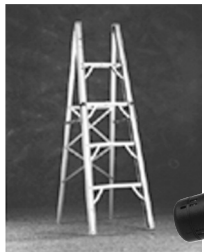
Tape Measure
Good Level
Cordless Drill
Screwdriver with #2 and #3 Bits
Rubber Mallet
Razor Blades
Hacksaw
File

TOOLS YOU SHOULD HAVE

Hammer Drill
Step Stool
6 Foot Level
Soft Paint Brush
Allen Wrench Set
Various Files
Small Solid Wood Block
Plumb-Bob
Caulking Gun
Countersink Set
Spring Clamps
Miter Saw
Gloves
Framing Square
100 Foot Extension Cord
Flat Knife
Suction Cup
Diagonal Cutters

TOOLS YOU COULD HAVE

2 Foot Level
6 Foot Ladder
Utility Knife
Automatic Center Punch
Pry Bar
Snips
Needlenose Pliers
Sander
Laser Tool



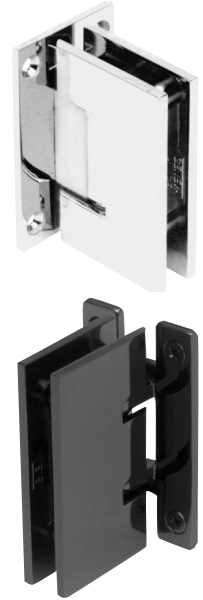
RECOMMENDED SUPPLIES FOR INSTALLATION OF FRAMELESS ENCLOSURES

It is absolutely necessary to have certain supplies for the installation of frameless enclosures. All of the supplies mentioned are important. They include: Cat. No. 33SC Clear Silicone, duct tape, low transfer adhesive tape, Plastic Screw Anchors (Cat. No. HR12X112), Setting Blocks (Cat. No.'s PSB040, PSB125, PSB156, PSB250, PSB375), Spearpoint Drill Bits (Cat. No.'s 416 and 316), 3/16" (5mm) and 1/4" (6mm) masonry drill bits, Tube Wax (Cat. No. WS140), various high-speed drill bits, Tapered Wood Shims (Cat. No. NWS9), an assortment of stainless steel screws, Cat. No. 1973 Glass Cleaner and Cat. No. 1550 Lint Free Paper Towels.

Note: It is always a good idea to bring along extra polycarbonate seals, as field measurements and conditions may be subject to interpretation.

Wall-to-Glass Hinge Installation Instructions

- Step 1 Important:** Prior to installing a door using wall mount hinges, always be sure to check the wall with a straight edge, to see if the wall is straight. If the wall is not straight and has a bend or curve in it, the hinges will not work without modification to the back plate (either tapered spacers or recessing in the tile). For more information on this see **Page 1-1** in Section 1 Design Considerations.
- Step 2** Both the glass and the gaskets must be free of any grime, grease, oils or anything else that would prohibit the hinge and gasket from making good contact with the glass. Glass cleaner or rubbing alcohol makes a good cleanser.
- Step 3** Remove the cover plates and screws from the hinges. See the template sheet in the hinge box for the proper gasket to be used with your selected glass thickness. Apply the proper thickness gaskets to both sides of the door around the hinge cutouts. Apply light pressure so they will stay in place. Now put the main body of the hinge in the glass cutout. Align the hinge in the cutout being sure that it is centered up and down, and that the edge of the plate is even with the edge of the glass. This will be your guideline to assure pivot points on both hinges match. After everything is aligned, place the clear gasket on the inside of the glass and secure the inside cover plate with the supplied machine screws. **Note: Always tighten the machine screws by hand!** It's a good idea to alternate from one screw to the next, so the pressure is evenly applied to the inside cover plate. Repeat the above process on the additional hinges. After tightening the screws, let them set for a period of 10 to 20 minutes to allow the gaskets to settle, then attempt to tighten them down a little bit more. It's this extra amount of tightening that can help prevent slippage.
- Step 4** Place shims on the curb, equal to the pre-determined door bottom clearance. Position yourself on the inside of the shower, and have an assistant on the outside of the shower. Together, lift the door into the opening and set the bottom of the door on the shims. Slowly push the top of the door in until it goes in the opening. After the door is positioned with the correct surround clearances, check to see if the door aligns flush with the fixed panels on the outside. If no fixed panels are used, check to see that it aligns with the plumb center-line plus half the thickness of the glass. Your assistant is on the outside, so he should verify that. Using a pencil, have your assistant mark the outside screw holes while you mark the inside holes. Remove the door so the mounting holes can be drilled.
- Step 5** Drilling the holes in marble or tile for the mounting screws.
- (a)** If you have a wood backing behind the marble or tile, you will not need to use anchors. Just drill 3/16" (5mm) holes through the marble/tile and thin set, but not into the wood. Put a small blob of silicone sealant in each hole. Set the hinge in place, and secure with the #10 x 2" (51mm) flat head Phillips screws provided.
- (b)** If there is no wood support behind the marble or tile, you will have to use anchors to secure the hinge bases. Just drill 1/4" (6mm) holes through the marble/tile and thin set to a minimum depth of 2" (51mm). Insert the (Cat No. HR12X112) anchors and tap them in so they are flush with marble/tile. Apply a small blob of silicone sealant on top of each anchor, set the hinge in place, and secure with the #10 x 2" (51mm) flat head screws provided.



Changing the Closing Angle of Wall Mount Hinges - (Prior to Installation)

Applies Only to Side Mount Hinges with 5° Reversible Pivot Pins

The hinge is factory set to close at a 90° angle from the mounting wall. However, the flat spot on the back of the pivot pin has been ground at a 5° angle, which allows you to create a closing position either 5° in or out (85° or 95°). To change the hinge so it closes 5° inward, requires rotating the pivot pin 180° (do not flip over). To change the hinge so it closes 5° outward, requires that the pivot pin be rotated 180°, and the hinge be flipped over before attaching the main body.

Note: To achieve a 5 degree closing position to the inside prior to the installation, you can choose to reverse the pivot pin or initially purchase a hinge that is already reversed. There are two hinge series that can be purchased with the 5 degree pin already reversed inward. Those two hinge series are the Geneva (GEN537 Wall Mount and GEN580 180° Glass-to-Glass) and the Pinnacle (PIN537 Wall Mount and PIN580 180° Glass-to-Glass).

Required Tools:

- (A) Phillips Screwdrivers (#2 and #3 point)
- (B) A set of metric Allen Wrenches (must include a 2mm Allen Wrench)
- (C) A Cat. No. HPW1 Hinge Pin Wrench

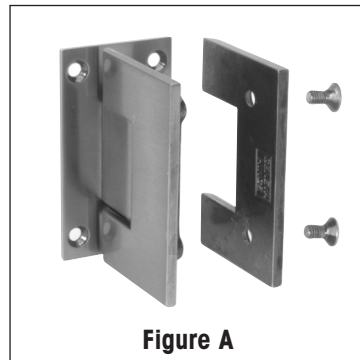


Changing the Hinge Closing Angle Prior to Installing the Hinge

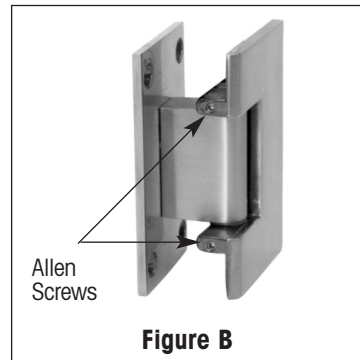
- Step 1** Lay the hinge (with the inside cover plate screw facing up) on a firm surface that is covered by a towel or other soft cloth to prevent scratching.
- Step 2** Remove the screws from the inside cover plate, and then remove the inside cover plate. (see illustrations on **Page 3-8**)
- Step 3** Hold the hinge by the back plate. Rotate the outside cover plate 90° inward to expose the two Allen screws, located at the top and bottom (in the end of the outside cover plate). Loosen the Allen screws two full turns and slowly pry the outside cover plate away from the pivot pin (be sure that the white nylon spacer washers on the pivot pin do not get lost, as they will be needed when re-assembling the hinge). Using a Cat. No. HPW1 Hinge Pin Wrench, place the wrench over the top portion of the pivot pin and rotate the pivot pin 180°. Re-attach the outside cover plate to the pivot pin (be sure that both white nylon spacers are in place before doing this). Tighten the two Allen screws and rotate the outside cover plate 90° outward to the closed position. The closed position should now be at 85°, or 5° inwards. If you want the closing position to be 95°, or 5° outwards, follow the above steps. However, before re-attaching the outside cover plate, rotate the back plate with the pivot pin block attached 180° (so the top of the back plate is now on the bottom). Then attach the outside cover plate.

Applies Only to Side Mount Hinges with 5° Reversible Pivot Pins

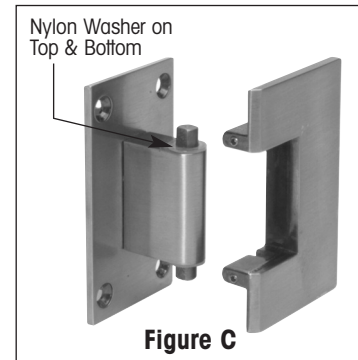
- Step 1** Remove the screws from the inside cover plate, and then remove the inside cover plate (See Figure A).
- Step 2** Rotate the outside cover plate 90° inward to expose the two Allen screws, located at the top and bottom in the end of the outside cover plate (See Figure B). Loosen the Allen screws two full turns and slowly pry the outside cover plate away from the pivot pin (See Figure C). Note: Be sure that the white nylon spacer washers on the pivot pin do not get lost, as they will be needed when re-assembling the hinge. Using a Cat. No. HPW1 Hinge Pin Wrench, place the wrench over the top portion of the pivot pin and rotate the pivot pin 180° (See Figure D). Re-attach the outside cover plate to the pivot pin (be sure that both white nylon washers are in place before doing this). Tighten the two Allen screws and rotate the outside cover plate 90° outward to the closed position. The closed position should now be 85°, or 5° inwards. If you want the closing position to be 95°, or 5° outwards, follow the above steps. However, before re-attaching the outside cover plate, remove the back plate with the pivot pin block attached from the wall and rotate the back plate 180° (so the top of the back plate is now at the bottom). Then re-install the back plate and attach the outside cover plate.



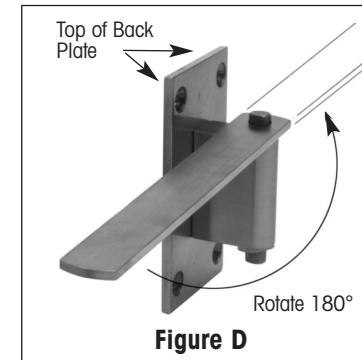
Remove inside cover plate.



Rotate main hinge body 90° inward and loosen the two Allen screws in the end of the main body.



Remove hinge main body.



Attach Cat. No. HPW1 Hinge Pin Wrench and rotate 180°.

Glass-to-Glass Hinge Installation Instructions

Step 1 Both the glass and the gaskets must be free of any grime, grease, oils or anything else that would prohibit the hinge and gasket from making good contact with the glass. Glass cleaner or rubbing alcohol makes a good cleanser.

Step 2 **The fixed panel that you will be hinging off of, must be firmly and structurally secure prior to attaching the door.** After the fixed panel is in the proper position, the glass-to-glass hinges should be attached. Be sure to attach the correct side of the hinge (the one with no moving parts) to the fixed panel. See the template sheet in the hinge box for the proper gasket to be used with your selected glass thickness. Remove the cover plates and screws, and place them inside the shower along with the proper thickness gaskets. Apply the gaskets to the outside of the glass, around the glass cutouts. Apply light pressure so they will stay in place. Position the main body of the hinge in the glass cutout, being sure the side with no moving parts is being attached to the fixed panel. Align the hinge in the cutout being sure that it is centered up and down, and that the edge of the plate is even with the edge of the glass. This will be your guideline to assure your pivot points on both hinges match. After everything is aligned, place the gasket on the inside of the glass, and secure the inside cover plate with the supplied machine screws. **Note: Always tighten the machine screws by hand!** It's a good idea to alternate from one screw to the next, so the pressure is evenly applied to the inside cover plate. Repeat the above process on the remaining hinge(s). After tightening the screws let them set for a period of 10 to 20 minutes to allow the gaskets to settle, then attempt to tighten them down a little bit more. It's this extra amount of tightening that can help prevent slippage.

Step 3 Apply the proper thickness gaskets to both sides of the door around the hinge cutouts. Apply light pressure so they will stay in place. Take the door inside the shower and set it in a safe position on pads. Place shims on the curb equal to the pre-determined door bottom clearance. Now lift the door, and set the bottom of the door on the shims with the hinge cutouts aligned with the hinges. This should be done from inside the shower. Slowly push the top of the door in until it goes into the opening and over the top hinge. Perform all your final alignments at this time. Place the cover plate over the gasketed cutout, and secure with the supplied machine screws. **Note: Always tighten the machine screws by hand!** It's a good idea to alternate from one screw to the next, so the pressure is evenly applied to the inside cover plate. Repeat the above process on the additional hinges. After tightening the screws let them set for a period of 10 to 20 minutes to allow the gaskets to settle, then attempt to tighten them down a little bit more. It's this extra amount of tightening that can help prevent slippage.



INSTRUCTIONS FOR CHANGING THE CLOSING ANGLE OF GLASS-TO-GLASS HINGES

(APPLIES ONLY TO SIDE MOUNT HINGES WITH 5° REVERSIBLE PIVOT PINS)

The same procedures used on Wall Mount Hinges can be used on the Glass-to-Glass Hinges for 85°, or 5° inwards. On 95° applications call (800) 421-6144 Ext. 7740 for instructions.

Top and Bottom Pivot Hinge Installation Instructions

- Step 1** Both the glass and the gaskets must be free of any grime, grease, oils or anything else that would prohibit the hinge and gasket from making good contact with the glass. Glass cleaner or rubbing alcohol makes a good cleanser.
- Step 2** See the template sheet in the hinge box for the proper gasket to be used with your selected glass thickness. Place shims on the curb, equal to the pre-determined door bottom clearance. Position yourself on the inside of the shower, with the hinge inside cover plates, gaskets and screws, tapered shims and a pencil. Have an assistant on the outside of the shower, with the main hinge body, gaskets, tapered shims and a pencil. Together, lift the door into the opening and set the bottom of the door on the shims. Slowly push the top of the door in until it goes into the opening. After the door is positioned with the correct surround clearances, check to see if the door aligns flush with the fixed panels on the outside. If no fixed panels are used, check to see if it aligns with the plumb center-line plus half the thickness of the glass. Your assistant is on the outside, so he should verify that. After the alignment is confirmed, wedge a couple of tapered shims between the top of the glass and the ceiling to keep the door in place while you mark the hinge bases.
- Step 3** Have your assistant place the main body of the hinge with a gasket in the cutout of the glass. Together, communicate and move the hinge until it is centered in the cutout and pressed firmly against the glass. Using a pencil, mark around the base on both sides. The preceding step should be followed for both the top and the bottom hinge. **Note:** When performing the above task, always have either you or your assistant in contact with the glass via a vacuum cup to prevent accidents. Remove the hinge bodies and set aside. Loosen top shims (keep the bottom shims together in their set position for later use) and remove the door to a safe position on setting blocks. **Hint:** If there is room inside the shower to set the door, this will make setting the door in the opening a lot easier after the hinges are installed.
- Step 4** Turn the hinge main body 90° from the base. This will allow you to mark the hole location with a pencil, after setting the base inside the pencil lines you previously marked on the curb and ceiling.
- Step 5** Drilling the holes in marble or tile for the mounting screws:
(a) If you have a wood backing behind the marble or tile, you will not need to use anchors. Just drill two 3/16" (5mm) holes through the marble/tile and thin set, but not into the wood. Put a small blob of silicone sealant in each hole. Set the hinge in place and secure with the 2" (51mm) flat head Phillips screws provided.
(b) If there is no wood support behind the marble or tile, you will have to use anchors to secure the hinge bases. Just drill two 1/4" (6mm) holes through the marble/tile and thin set to a minimum depth of 2" (51mm). Insert the anchors (Cat. No. HR12X112) and tap them in so they are flush with marble/tile. Apply a small blob of silicone sealant on top of each anchor. Set the hinge in place, and secure with the 2" (51mm) flat head screws provided.
- Step 6** It's now time to mount your door to the hinges. First rotate the hinge main bodies back to the 180° position with the plate facing the outside. Next set your pre-set bottom shims on the curb. Apply the gaskets to the outside of the glass, around the glass cutouts. Apply light pressure so they will stay in place. Now lift the door and set the bottom of the door on the shims with the cutout aligned over the hinge (this should be done from inside the shower). Slowly push the top of the door in until it goes into the opening and over the top hinge. Perform all your final alignments at this time. Apply the gaskets to the inside of the door and secure the cover plates with the supplied machine screws. **Note: Always tighten the machine screws by hand!** It's a good idea to alternate from one screw to the next, so the pressure is evenly dispersed to the inside cover plate. After tightening the screws let the door set for a period of 10 to 20 minutes to allow the gaskets to settle, then attempt to tighten them down a little bit more. It's this extra amount of tightening that can help prevent slippage.



Changing Pivot Pins for Top and Bottom Pivot Hinges -

(Prima, Cardiff, Jr. Prima, Sr. Prima,
Sr. Cardiff, Rondo, Shell)



Applies to Cat. Nos. P1VP1N, JRP1VP1N and SRP1VP1N

NOTE: The mounting angle of the base plate determines the closing position of the door. You may be able to re-position the base plate if necessary to alter the closing position. However, this is not always possible due to field conditions. If you choose to use the 5° Pivot Pins (Cat. Nos. P1VP1N, JRP1VP1N or SRP1VP1N), read the instructions on this page.

- Step 1** Remove the inside coverplate, by loosening the two screws.
- Step 2** Remove the base plate by loosening the single Phillips screw.
- Step 3** Remove all four Allen screws, plungers, and springs from the main body.
- Step 4** Now remove the Pivot Pin out of the main body.

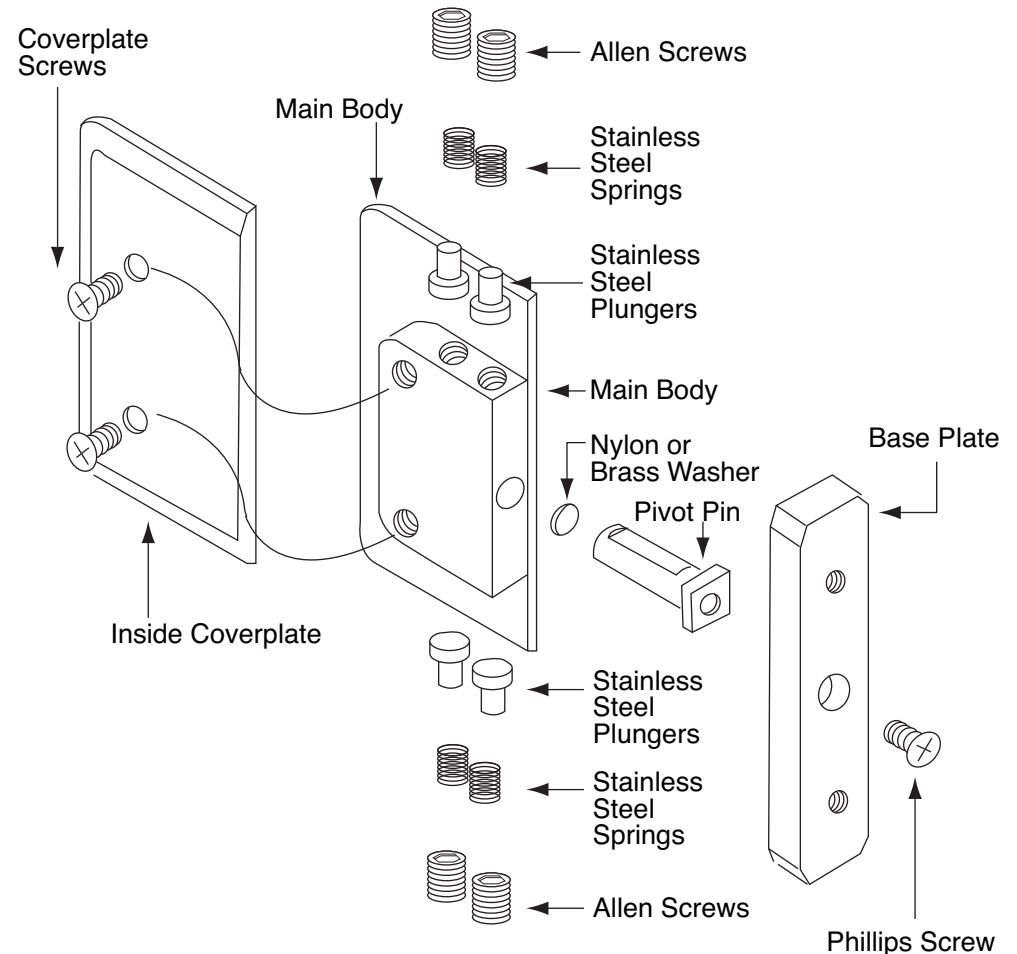
WARNING: Be sure not to misplace the nylon or brass washer, that is inserted into the cavity which houses the Pivot Pin. This washer may come out during the removal of the Pivot Pin, or may remain in place inside the main body.

NOTE: When determining the hinge location as it appears on your Pivot Pin, CRL assumes that you require a 5° offset to the **inside** of the enclosure.

- Step 5** After determining hinge location, place the new Pivot Pin into the main body. Apply a small quantity of White Lithium Grease into the four holes which house the plungers, springs, and Allen screws. Re-assemble.

NOTE: Do not screw the Allen screws deeper than 1/32" (1mm) protrusion from the main body, as over-tightening can apply too much stress on the interior mechanism.

- Step 6** Insert the square bottom of the Pivot Pin into the base plate and tighten very securely. Replace the inside coverplate.



Slide-In Method for U-Channel

The Slide-in Method is the most common method of securing fixed panels, as it's the easiest way and gives good glass coverage. This method can be used on return panels or inline panels as long as the fixed panels are narrower than the door opening. The Slide-in Method requires that the top, bottom and side U-Channels have countersunk holes, secured with flat head screws that are flush with the bottom of the channel.

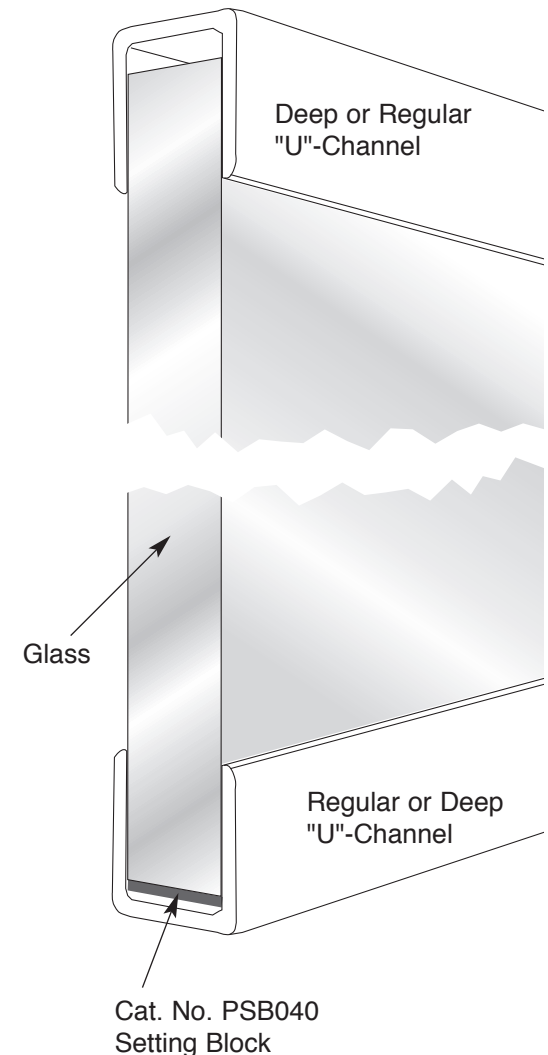
Using Regular or Deep U-Channel:

- 1) Secure top, bottom and side U-Channels with flat head screws.
- 2) Cut Cat. No. PSB040 Setting Blocks to fit across the channel width and space approximately every 12" (305mm), or on small panels at least two setting blocks, one on each side.
- 3) Slide the glass into the U-Channel from the end and set in the proper place, checking for alignment and being sure the edge of the glass aligns with the ends of the U-Channel.

Structurally Adhering and Setting Glass in U-Channel with The Slide-In Method

First cover all screws and the surrounding area with a blob of silicone. Then seal any seams or mitered joints in the U-Channel from the inside with silicone. If a vertical U-Channel is used, apply a 1/8" (3mm) bead of silicone to the bottom of the channel from end to end. Now apply a bead of silicone 1/16" (1.5mm) higher than your setting blocks in the bottom U-Channel. This bead should run the entire length of the channel with the exception of the area where the setting blocks are located. Never run silicone over the setting blocks, only run it between them. Insert your glass all the way up into the upper U-Channel, and slide the glass sideways until it is seated in the vertical channel or is aligned with your indexing point. Then lower the glass onto the setting blocks and do the final alignment. Note: No silicone was applied inside the top channel. This is correct. The only silicone applied to the top channel is a waterproofing cap bead.

NOTE: Information on the "Overview" and "Silicone Cleanup Methods" on **Page 3-15** should be followed to complete the installation.



Installation Instructions for U-Channel

Alternate Lift and Drop Method for U-Channels

The Lift and Drop Method is necessary for some installations, and has its advantages and disadvantages. One situation where the method is necessary is when the glass panel is wider than the opening to its side, thus preventing you from sliding the glass panel in from the end. The advantages to this type of installation are that the Deep Bottom U-Channel can be drilled with oversize holes and secured with pan head screws, which allows you a little adjustment of the U-Channel before tightening the screws. The disadvantage is that you have less glass coverage from the metal than you have with the Slide-In Method. The Lift and Drop can be done with a Deep U-Channel on top and a Regular U-Channel on the bottom, or with Deep U-Channel on both top and bottom.

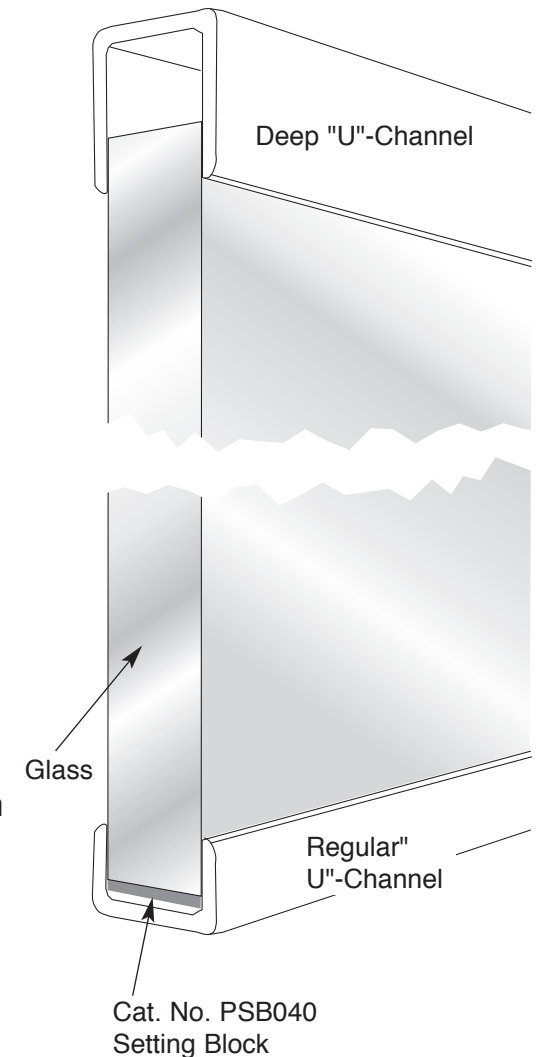
Using Deep U-Channel on the Top and Regular U-Channel on the Bottom:

- 1) The top and bottom U-Channels must be countersunk and secured with flat head screws.
- 2) Cut a Cat. No. PSB040 Setting Block to fit across the channel width, and space approximately every 12"(305mm), or on small panels at least two setting blocks, one on each side.
- 3) Lift the glass into the top channel, and lower it down on top of the setting blocks in the bottom channel. If a side channel is used, slide the glass panel sideways into the side channel before dropping it down on the setting blocks in the bottom channel. Check the glass panel for alignment and be sure the edge of the glass aligns with the ends of the U-Channel.

Structurally Adhering and Setting Glass in U-Channel with The Lift and Drop Method

First cover all screws and the surrounding area with a blob of silicone. Then seal any seams or mitered joints in the U-Channel from the inside with silicone. If a vertical U-Channel is used, apply a 1/8" (3mm) bead of silicone to the bottom of the channel from end to end. Now apply a bead of silicone 1/16" (1.5mm) higher than your setting blocks in the bottom U-Channel. This bead should run the entire length of the channel with the exception of the area where the setting blocks are located. Never run silicone over the setting blocks, only run it between them. Insert your glass all the way up into the upper U-Channel, and slide the glass sideways until it is seated in the vertical channel or aligned with your indexing point. Then lower the glass onto the setting blocks and do the final alignment. Note: No silicone was applied inside the top channel. This is correct. The only silicone applied to the top channel is a waterproofing cap bead.

Note: Information on the "Overview" and "Silicone Cleanup Methods" on **Page 3-15** should be followed to complete the installation.



Continued on Page 3-14

(Continued from Page 3-13)

Alternate Lift and Drop Method for U-Channel

Using Deep U-Channel on the Top and the Bottom:

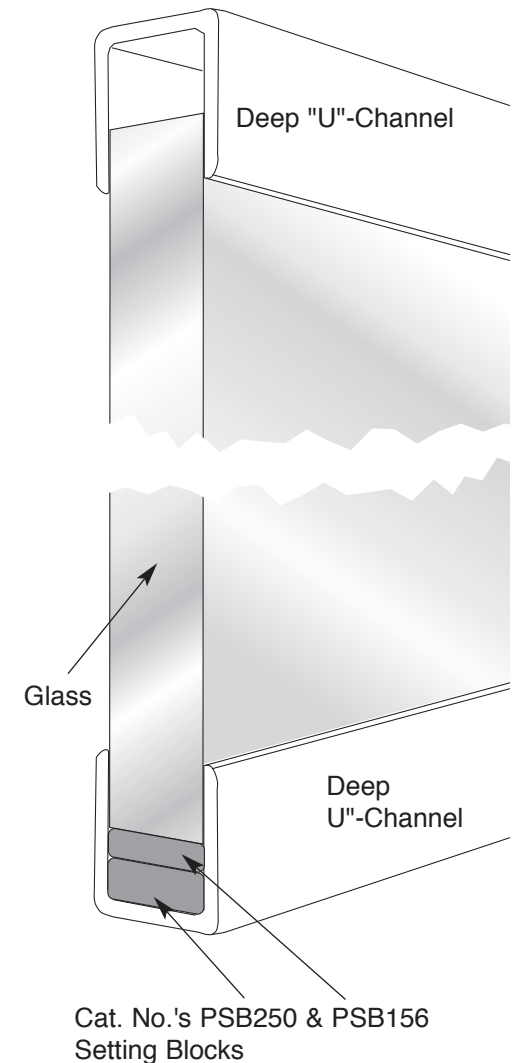
- 1) The top channel must be countersunk and secured with flat head screws. The bottom channel can be countersunk and secured with flat head screws, or drilled and secured with pan head screws. Either method will work because the bottom of the glass will be held above the screw head height by the setting blocks.
- 2) Cut a Cat. No. PSB250 Setting Block and a Cat. No. PSB156 Setting Block to fit across the channel width. Stack them on top of each other to achieve a total setting block height of $1\frac{3}{32}$ " (10mm). Along with the $\frac{3}{32}$ " (2mm) channel base height, this will total the $\frac{1}{2}$ " (12mm) height desired. Space approximately every 12" (305mm), or on small panels at least two setting blocks, one on each side.
- 3) Lift the glass into the top channel, and lower it down on top of the setting blocks in the bottom channel. If a side channel is used, slide the glass panel sideways into the side channel before dropping it down on the setting blocks in the bottom channel. Check the glass panel for alignment and be sure the edge of the glass aligns with the ends of the U-Channel.

Structurally Adhering and Setting Glass in the U-Channel with The Lift and Drop Method

This portion of the instructions only addresses the procedure for structurally adhering the glass. Information in the "Overview" and "Silicone Cleanup Methods" should be followed to complete the installation. (see **Page 3-15**)

First cover all screws and the surrounding area with a blob of silicone. Then seal any miter seams from the inside with silicone. If a vertical U-Channel is used, apply a $\frac{1}{8}$ " (3mm) bead of silicone to the bottom of the channel from end to end. Now apply a bead of silicone $\frac{1}{16}$ " (1.5mm) higher than your setting blocks in the bottom U-Channel. This bead should run the entire length of the channel with the exception of the area where the setting blocks are located. Never run silicone over the setting blocks, only run it between them. Insert your glass all the way up into the upper U-Channel, and slide the glass sideways until it is seated in the vertical channel or aligned with your indexing point. Then lower the glass onto the setting blocks and do the final alignment. Note: No silicone was applied inside the top channel. This is correct. The only silicone applied to the top channel is a waterproofing cap bead.

Note: Information on the "Overview" and "Silicone Cleanup Methods" on **Page 3-15** should be followed to complete the installation.



Using Silicone Sealant to Adhere and Seal the Glass in U-Channel

Overview:

Siliconing glass into U-Channel is a two step operation. The first step is to achieve structural strength, and involves applying a bead of silicone inside the bottom of the U-Channel. This is done to the side U-Channel (if U-Channel is used vertically) and the bottom U-Channel. The second step is to provide waterproofing. This requires a very small cap bead of clear silicone to be run around the entire perimeter of the U-Channel edge where it meets the glass (both inside and outside). Also, a small bead of silicone should be run where the base of the U-Channel meets the tile or marble (both inside and outside), and any open areas at the end of the U-Channel. After your glass is set and aligned, you will have to select your cleanup method (explained below) before proceeding to the application of the silicone sealant.

Silicone Cleanup Methods:

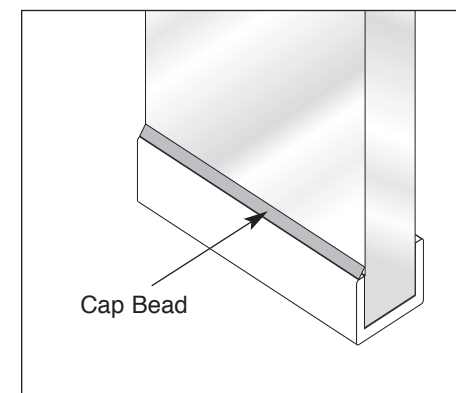
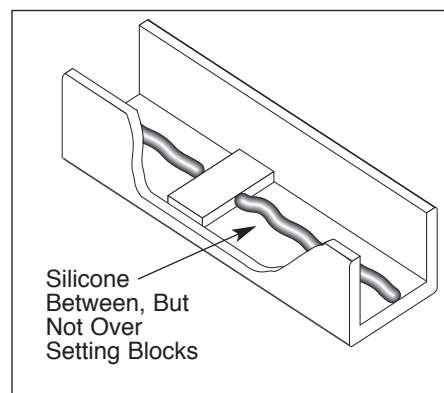
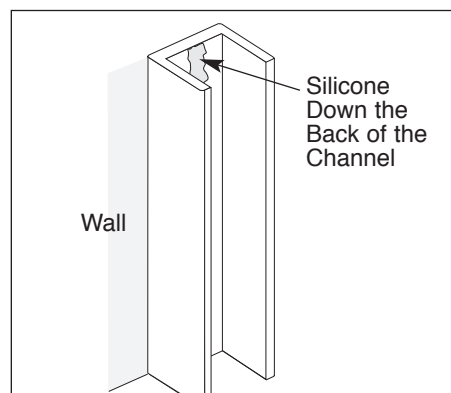
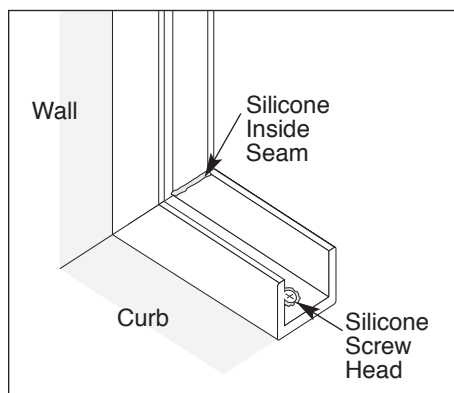
No matter how carefully you set your glass in the U-Channel, a certain amount of silicone will flow out between the glass and U-Channel. There are two methods of addressing cleanup and bead appearance, Preventive and Corrective.

1) The Preventive Method:

After your glass is aligned, apply Blue Low Adhesive Transfer Tape to the glass approximately 1/16" (1.5mm) to 3/32" (2mm) above the metal sight line. Then using the same tape, apply it to the top leg of the U-Channel approximately 1/16" (1.5mm) to 3/32" (2mm) back from the gap. This will provide an even and attractive bead width when your cap bead is tooled. Now remove the glass and apply the structural bead of silicone to the bottom of the U-Channel. Reset the glass and align it. Wipe off any excess silicone flow from the seam. It is now time to apply your silicone cap bead and tool it. After tooling, immediately remove the tape.

2) The Corrective Method:

After your Glass is set in the U-Channel and the excess silicone has flowed out, let it set for 30 to 60 minutes. Then use a single edge razor blade to trim and scrape the excess silicone away. Now you can run your cap bead. It's appearance and bead width will be determined by your application skills.



Installation Instructions for Fixed Panel “U” Clamps

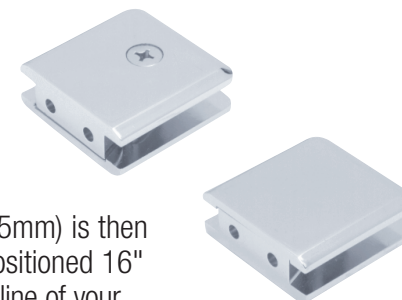
- 1) When you decided on your shower door design, your clamps were positioned to achieve structural strength and symmetry. A 3/16" (5mm) clearance gap was allowed for proper installation of the clamp. In order to mark the correct location for your mounting screw in the substrate, another factor must be considered. Example: You have a 24" (610mm) wide fixed glass panel, and have planned to mount two clamps each on the top and bottom. You plan to position these clamps 4" (101mm) in from edge of the panel, and have left a 1/8" (3mm) clearance gap on the left side wall. To determine the proper mounting screw location for the left side clamp, you must add 1/8" (3mm) and 4" (101mm) (4-1/8" (105mm) is then the center-line of the mounting hole from the wall). The other clamp you are mounting, would then be positioned 16" (406mm) to the right of the left clamp (4-1/8" (105mm) plus 16" (406mm) = 20-1/8" (511mm), the distance to the center-line of the mounting hole from the left side wall for the right side clamp).
- 2) After you have determined the center-line of your glass on the curb, wall or ceiling using the above instructions, mark the clamp locations on the glass center-line*, and you are ready to drill. Use a 1/4" (6mm) Spearpoint Masonry Drill Bit or Glass Drill Bit to drill your tile or marble. After this is done, one of two conditions will exist. The ideal one is you will have a wood stud or backing behind the tile or marble. The second one is you will not have any backing and have to use a plastic anchor. If you have wood backing, drill a small pilot hole in the wood, then apply a small glob of silicone sealant in the hole. Put the #10 x 2" (51mm) screw (included) through the clamp mounting hole, insert it in the pilot hole and tighten. If you do not have any backing, take a 1/4" (6mm) Masonry Drill Bit and drill a hole a minimum of 2" (51mm) deep, to accommodate a 1/4" (6mm) shoulder-less plastic anchor. Apply a small glob of silicone sealant in the hole and tap in the anchor. Some excess silicone should seep out as a result. Use a razor blade to remove any excess silicone or anchor that protrudes above the hole. Finally, put the #10 x 2" (51mm) screw through the clamp mounting hole, insert it in the anchor and tighten.
- 3) When all the clamps needed for your installation have been mounted you are now ready to install your glass panel. Before setting your glass panel in place, put one of the clear gaskets against the inside face of your clamp. Set a 3/4" (19mm) long piece of a Cat. No. PSB040 Clear Setting Block on top of the clamp mounting screw. Then set your glass panel as close to it's final position as possible. Adjust your panel to the final position heeding this warning: Always lift your glass when moving it, as this will prevent the setting blocks from shifting and possibly causing glass breakage. Apply the other clear gasket to the inside of the outer plate, and position the clamp in the hole in the glass. Manually screw it tight from the inside. Apply Blue Low Adhesive Transfer tape to the sides of the glass and the wall or curb prior to applying clear silicone sealant, as this speeds the clean-up process. Apply silicone, tool it and remove the tape. For more detailed taping instructions, refer to the Glass-to-Glass Panel Sealing Instructions on **Page 3-23**.



*When we refer to "glass center-line", we refer only to the location of the center of the glass panel thickness, not the location of the glass panel in relation to the center-line of the curb. Glass panels can be located anywhere on the curb from the front to the back, but the center-line of the glass is **always** the center of the glass panel thickness, or the center of the aluminum channel or clamp width. EXAMPLE: You want the outside face of your glass 2" (51mm) back from the outside face of your curb, and you are using 3/8" (10mm) thick glass. Measure 2" (51mm) back, plus half the thickness of your glass 3/16" (5mm) = 2-3/16" (56mm) total.

Installation Instructions for Heavy Duty Wall Mount Clamps

- 1) When you decided on your shower door design, your clamps were positioned to achieve structural strength and symmetry. A 1/16" (1.5mm) clearance gap was allowed for proper installation of the clamp. In order to mark the correct location for your mounting screws in the substrate, another factor must be considered. Example: You have a 24" (610mm) wide fixed glass panel, and have planned to mount two clamps each on the top and bottom. You plan to position these clamps 4"(101mm) in from edge of the panel, and have left a 1/8" (3mm) clearance gap on the left side wall. To determine the proper mounting screw location for the left side clamp, you must add 1/8" (3mm) and 4" (101mm) (4-1/8" (105mm) is then the center-line dimension from the wall to the center of your clamp. The other clamp you are mounting, would then be positioned 16" (406mm) to the right of the left clamp (4-1/8" (105mm) plus 16" (406mm) = 20-1/8" (511mm), the distance to the center-line of your clamp, from the left side wall for the right side clamp).
- 2) After you have determined the center-line of your glass on the curb, wall or ceiling using the above instructions, mark the clamp locations on the glass center-line*, and you are ready to drill. To find the dimension from the center-line of your clamp to the two mounting holes that will be drilled, simply add 3/8" (10mm) to each side of that center-of-clamp dimension. Use a 1/4" (6mm) Spearpoint Masonry Drill Bit or Glass Drill Bit to drill your tile or marble. After this is done, one of two conditions will exist. The ideal one is you will have a wood stud or backing behind the tile or marble. The second one is you will not have any backing and have to use a plastic anchor. If you have wood backing, drill a small pilot hole in the wood, then apply a small glob of silicone sealant in the hole. Put a #10 x 2" (51mm) flat head screw through the clamp mounting holes, insert them in the pilot holes and tighten. If you do not have any backing, take a 1/4" (6mm) Masonry Drill Bit and drill the holes a minimum of 2" (51mm) deep, to accommodate a 1/4" (6mm) shoulder-less plastic anchor. Apply a small glob of silicone sealant in the hole and tap in the anchor. Some excess silicone should seep out as a result. Use a razor blade to remove any excess silicone or anchor that protrudes above the hole. Finally, put the #10 x 2" (51mm) screws through the clamp mounting holes, insert it in the anchor and tighten.
- 3) When all the clamps needed for your installation have been mounted you are now ready to install your glass panel. Before setting your glass panel in place, put one of the gaskets against the inside face of your clamp. Set a 1/2" (12mm) long piece of a Cat. No. PSB040 Clear Setting Block on top of the curb next to the Dome-shaped portion of your clamp. Then set your glass panel as close to it's final position as possible. Adjust your panel to the final position heeding this warning: Always lift your glass when moving it, as this will prevent the setting blocks from shifting and possibly causing glass breakage. Apply the other gasket to the inside of the outer plate, and center the clamp in the notch in the glass. Manually screw it tight from the inside. Apply Blue Low Adhesive Transfer tape to the sides of the glass and the wall or curb prior to applying clear silicone sealant, as this speeds the clean-up process. Apply silicone, tool it and remove the tape. For more detailed taping instructions, refer to the Glass-to-Glass Panel Sealing Instructions on **Page 3-23**.



*When we refer to "glass center-line", we refer only to the location of the center of the glass panel thickness, not the location of the glass panel in relation to the center-line of the curb. Glass panels can be located anywhere on the curb from the front to the back, but the center-line of the glass is **always** the center of the glass panel thickness, or the center of the aluminum channel or clamp width. EXAMPLE: You want the outside face of your glass 2" (51mm) back from the outside face of your curb, and you are using 3/8" (10mm) thick glass. Measure 2" (51mm) back, plus half the thickness of your glass 3/16" (5mm) = 2-3/16" (56mm) total.



C.R. LAURENCE CO., INC.
PROFESSIONAL QUALITY

C.R. Laurence Company has established a Technical Sales Department to assist our customers. If you have any questions concerning shower door hardware or any product from CRL, please contact us at:

**(800) 421-6144 in the U.S.,
or (877) 421-6144 from Canada,
and ask for Extension 7740**

3-16B

90° Clamp Installation Instructions

Glass-to-Glass with Overlapping Panels

A 1/16" (1.5mm) gap is required between the butting and overlapping panel. This can be achieved by placing a 1/16" (1.5mm) shim between the two glass panels to ensure proper spacing, and reduce the chance of damage to the panels. Before mounting your clamp, be sure to place a clear gasket on each of its four mounting surfaces. Now place the inside portion of your clamp into position. Mount the outside plates into the holes in the glass and manually tighten the screws from the inside. **Note:** For Heavy Duty Glass Clamps, the outside portion of the clamp is to be aligned first. After aligning the outside fixed 90 degree shape, place the inside plates into position and manually tighten. See Silicone Sealant Instructions for Glass-to-Glass Applications below.



Glass-to-Glass with 45° Mitered Panels

A 1/16" (1.5mm) gap is required between the 45° mitered panels. This can be achieved by placing a 1/16" (1.5mm) shim between the two glass panels to ensure proper spacing, and reduce the chance of damage to the panels. Before mounting your clamp, be sure to place a clear gasket on each of its four mounting surfaces. Now place the inside portion of your clamp into position. Mount the outside plates into the holes in the glass and manually tighten the screws from the inside. **Note:** For Heavy Duty Glass Clamps, the outside portion of the clamp is to be aligned first. After aligning the outside fixed 90 degree shape, place the inside plates into position and manually tighten. See Silicone Sealant Instructions for Glass-to-Glass Applications below.

Silicone Sealant Instructions for Glass-to-Glass Applications

Apply Blue Low Adhesive Transfer Tape to the edges of the glass where the gap sight line is, prior to applying the clear silicone sealant. This speeds the clean-up process. Apply silicone, tool it and remove the tape. For more detailed taping instructions, refer to the Glass-to-Glass Panel Sealing Instructions on **Page 3-23**.

Glass-to-Wall Installations Using the 90° Clamp

Some installers prefer using the 90° Clamp on glass-to-wall installations instead of our standard "U" Clamp. By using the 90° Clamp they can set the panel to its proper location, mark the hole, and tilt the panel out to drill the anchor hole in the tile or marble. Also, the clamps can be pre-installed in the shop to speed up the installation. The 90° Clamp comes with a wood screw in the package for this type of installation. Begin by attaching the clamp to the glass panel, being sure the two clear gaskets are in place. Discard the outer plate and machine screw from the side that is going to attach to the wall. Position the panel in its proper place and mark the hole location on the wall. Tilt the glass panel out. Using a 1/4" (6mm) Masonry Drill Bit or a 1/4" (6mm) Spearpoint Glass Drill Bit, drill a hole through the tile or marble. After this is done, one of two conditions will exist. The ideal one is you will have a wood stud or backing behind the tile or marble. The second one is you will not have any backing and have to use a plastic anchor. If you do not have any backing, take a 1/4" (6mm) Masonry Drill Bit and drill a hole deep enough to accommodate a 1/4" (6mm) shoulder-less plastic anchor. Apply a small glob of silicone sealant in the hole and tap into anchor. Some excess silicone should seep out as a result. Use a razor blade to remove excess silicone or anchor that protrudes above the hole. Finally, put the #12 x 1-1/2" (38mm) wood screw through the clamp mounting hole, insert it in the anchor and tighten. See Silicone Sealant Instructions for Glass-to-Wall Applications below.



Silicone Sealant Instructions for Glass-to-Wall Applications

Apply Blue Low Adhesive Transfer Tape to the edges of the glass and wall or curb where the gap sight line is, prior to applying the clear silicone sealant. This speeds the clean-up process. Apply silicone, tool it and remove the tape. For more detailed taping instructions, refer to the Glass-to-Glass Panel Sealing Instructions on **Page 3-23**.

180° Clamp Installation Instructions

180° Single Stud Clamp Installation Instructions

Glass-to-Glass Panels without Notches

Panels without notches require a minimum 13/32" (10mm) shim between the two glass panels to ensure proper spacing, and reduce the chance of damage to the panels. Before mounting your clamp, be sure to place a clear gasket on each of its two mounting surfaces. Now place the inside portion of your clamp into position. Mount the outside plate between the gap in the glass and manually tighten the screw from the inside.



Glass-to-Glass Panels with Notches

A 1/16" (1.5mm) gap is required between the panels. This can be achieved by placing a 1/16" (1.5mm) shim between the two glass panels to ensure proper spacing, and reduce the chance of damage to the panels. Before mounting your clamp, be sure to place a clear gasket on each of its two mounting surfaces. Now place the inside portion of your clamp into position. Mount the outside plate into the notches in the glass and manually tighten the screws from the inside. See Silicone Sealant Instructions for Glass-to-Glass Applications below.

Silicone Sealant Instructions for Glass-to-Glass Applications

Apply Blue Low Adhesive Transfer Tape to the edges of the glass where the gap sight line is, prior to applying the clear silicone sealant. This speeds the clean-up process. Apply silicone, tool it and remove the tape. For more detailed taping instructions, refer to the Glass-to-Glass Panel Sealing Instructions on **Page 3-23**.

180° Double Stud Clamp Installation Instructions

Glass-to-Glass with Square Cut Panels:

A 1/16" (1.5mm) gap is required between the glass panels. This can be achieved by placing a 1/16" (1.5mm) shim between the two glass panels to ensure proper spacing, and reduce the chance of damage to the panels. Before mounting your clamp, be sure to place both of the clear gaskets on each of the two mounting surfaces. Mount the outside plate into the holes in the glass, then place the inside portion of your clamp into position and manually tighten the screws from the inside. See Silicone Sealant Instructions for Glass-to-Glass Applications below.



Silicone Sealant Instructions for Glass-to-Glass Applications:

Apply Blue Low Adhesive Transfer Tape to the edges of the glass where the gap sight line is, prior to applying the clear silicone sealant. This speeds the clean-up process. Apply silicone, tool it and remove the tape. For more detailed taping instructions, refer to the Glass-to-Glass Panel Sealing Instructions on **Page 3-23**.

180° Split Face and "Y" Inline Clamp Installation Instructions

Glass-to-Glass with Square Cut Panels

A 1/16" (1.5mm) gap is required between the glass panels. This can be achieved by placing a 1/16" (1.5mm) shim between the two glass panels to ensure proper spacing, and reduce the chance of damage to the panels. Before mounting your clamp, be sure to place a clear gasket on each of its four mounting surfaces. Mount the outside plates into the holes in the glass, then place the inside portion of your clamp into position and manually tighten the screws from the inside. See Silicone Sealant Instructions for Glass-to-Glass Applications below.

Glass-to-Knee Wall with Square Cut Panel

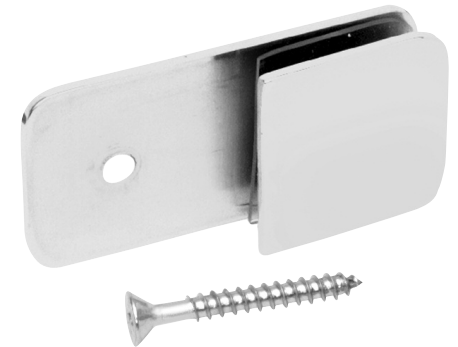
Many times a design calls for a 90° return panel to be mounted flush with the inside edge of a knee wall, thus preventing the notching of your front panel or door. This is very difficult to do with "U"-Channel or our standard "U"-Clamp because when you drill your mounting holes close to the edge of the tile or marble, you take a chance of cracking these substrates. The advantage of the "Y" Clamp is that it not only allows you to mount your glass flush with the edge of the knee wall, but it places your mounting screw hole 7/8" (22mm) away from the edge of the tile or marble. Mount the "Y" Clamp to your glass panel being sure to use a clear gasket on both its mounting surfaces. Discard the outer plate and machine screw from the side that is going to attach to the knee wall. Now set the panel on 1/16" (1.5mm) or 1/8" (3mm) setting blocks that have been positioned on top of the knee wall. Mark the mounting hole locations on the wall. Remove the glass panel. Using a 1/4" (6mm) Masonry Drill Bit or a 1/4" (6mm) Spearpoint Glass Drill Bit, drill a hole through the tile or marble. After this is done, one of two conditions will exist. The ideal one is you will have a wood stud or backing behind the tile or marble. The second one is you will not have any backing and have to use a plastic anchor. If you have a wood backing, insert the 1-1/2" (38mm) wood screw through the clamp mounting hole, and into the pilot hole and tighten. If you do not have any backing, take a 1/4" (6mm) Masonry Drill Bit and drill a hole deep enough to accommodate a 1/4" (1.5mm) shoulder-less plastic anchor. Apply a small glob of silicone sealant in the hole and tap in the anchor. Some excess silicone should seep out as a result. Use a razor blade to remove excess silicone or anchor that protrudes above the hole. Finally, put the #12 x 1-1/2" (38mm) wood screw through the clamp mounting hole, insert it into the anchor and tighten.

Silicone Sealant Instructions for Glass-to-Glass Applications

Apply Blue Low Adhesive Transfer Tape to the edges of the glass where the gap sight line is, prior to applying the clear silicone sealant. This speeds the clean-up process. Apply silicone, tool it and remove the tape. For more detailed taping instructions, refer to the Glass-to-Glass Panel Sealing Instructions on **Page 3-23**.



180° Glass-to-Glass Split Face Application



"Y" Inline Clamp Wall Mount Application

135° Clamp Installation Instructions

Glass-to-Glass with Square Cut Panels

A 1/16" (1.5mm) gap is required between the glass panels. This can be achieved by placing a 1/16" (1.5mm) shim between the two glass panels to ensure proper spacing, and reduce the chance of damage to the panels. Before mounting your clamp, be sure to place a clear gasket on each of its four mounting surfaces. Mount the outside plates into the holes in the glass, then place the inside portion of your clamp into position and manually tighten the screws from the inside.

Note: For Heavy Duty Glass Clamps, the outside portion of the clamp is to be aligned first. After aligning the outside fixed 135 degree shape, place the inside plates into position and manually tighten. See Silicone Sealant Instructions for Glass-to-Glass Applications below.

Glass-to-Glass with 22-1/2° Mitered Panels

A 1/16" (1.5mm) gap is required between the 22-1/2° mitered panels. This can be achieved by placing a 1/16" (1.5mm) shim between the two glass panels to ensure proper spacing, and reduce the chance of damage to the panels. Before mounting your clamp, be sure to place a clear gasket on each of its four mounting surfaces. Mount the outside plates into the holes in the glass, then place the inside portion of your clamp into position and manually tighten the screw from the inside.

Note: For Heavy Duty Glass Clamps, the outside portion of the clamp is to be aligned first. After aligning the outside fixed 135 degree shape, place the inside plates into position and manually tighten. See Silicone Sealant Instructions for Glass-to-Glass Applications below.

Silicone Sealant Instructions for Glass-to-Glass Applications

Apply Blue Low Adhesive Transfer Tape to the edges of the glass where the gap sight line is, prior to applying the clear silicone sealant. This speeds the clean-up process. Apply silicone, tool it and remove the tape. For more detailed taping instructions, refer to the Glass-to-Glass Panel Sealing Instructions on **Page 3-23**.



Movable Transom Clamps for Wall-to-Glass Applications

To install the Movable Transom Clamps for a movable transom above the door, a series of measurements must be taken or noted. This process is a simple mathematical equation. First, the amount of top clearance that was allotted in figuring the transom glass height, must be noted for future use. Second, the distance from the top of the glass to the center-line of the hole that was drilled in the transom glass, must also be noted. This dimension should be the height of your transom divided by two.

- Step 1** It is time to use the dimensions that were previously noted to determine the location of the holes to be drilled in the wall. Add the clearance that was allotted for on top of the transom, to the center-line dimension that was measured on the transom glass. It is the sum of these two figures that will indicate how far down from the ceiling you are to drill your hole in the wall. For example, if the clearance at the top of the transom is 1/4" (6mm) and the distance from the edge of the glass to the center-line of the hole is 5-3/4" (146mm), then the hole in the wall would be drilled at 6" (152mm) down from the ceiling to the center of the hole.
- Step 2** We have established the location up and down, but have not determined the in and out location. A center-line should be drawn on the vertical wall to serve as an indexing point. For use with 5/16" (8mm) or 3/8" (10mm) glass, simply locate your hole in the center of this line. For use with 1/2" (12mm) glass, locate your hole 1/16" (1.5mm) to the **inside** of your center-line .
- Step 3** Drilling the holes in marble or tile for the mounting screws.
(a) If you have a wood backing behind the marble or tile, you will not need to use an anchor. Just drill one 3/16" (5mm) hole through the marble/tile and thin set, but not into the wood. Set the clamp in place and secure with the #10 x 2" (51mm) flat head Phillips screw provided.
(b) If there is no wood support behind the marble or tile, you will have to use an anchor to secure the clamp base. Just drill one 1/4" (6mm) hole through the marble/tile and thin set deep enough to accommodate the Cat. No. HR12X112 plastic anchor. Insert the anchor and tap it in so it is flush with marble/tile. Set the clamp in place, and secure with the #10 x 2" (51mm) flat head screw provided.
- Step 4** After screwing into the wall with the #10 x 2" (51mm) screw, it is time to tighten the clamp to the right resistance. The clamp should be tight enough to offer some resistance when it is spun, yet it shouldn't be so tight that it is prevented from spinning. If the clamp is too tight, it will try to spin the screw out of the wall.
- Step 5** Now that the clamp is mounted to the wall, the glass is to be positioned in the opening. A clear gasket goes on each side of the glass to act as a buffer between the glass and the clamp. Place the glass in the opening and rest it against the half of the clamp that is mounted to the wall. The front plate with the stud attached goes through the hole in the glass, and the machine screw is threaded to join the two components. Always tighten the machine screws by hand!



Movable Transom Clamps for Glass-to-Glass Applications

There are three hardware components for glass-to-glass transom mounting: Two outside cover plates and an inside swiveling system that is two clamps connected by a stainless steel nut and bolt. In addition to these hardware parts, there are four clear gaskets that act as a buffer between the glass and the hardware. Prior to installing the Movable Transom Clamps, both of the panels to be pivoted off of must be structurally secure.

The following instructions apply to the GCB188 (180 degree inline movable transom clamp).

- Step 1** Prior to installing the Glass-to-Glass Moveable Transom Clamps, remove both outside cover plates and tighten the inside swiveling back plates to the desired tension. The clamps should have some resistance, but not be so tight that they are difficult to spin.
- Step 2** Look at the inside swiveling back plates to determine which side connects to the fixed panel and which side connects to the movable transom. The side that attaches to the fixed panel is the side that has the head of the flat head screw. The side that connects to the movable transom is the side that has the nylock nut showing, with the threaded end of the screw protruding.
- Step 3** Having established which side of the back plate goes where, put the outside cover plate with gasket attached into the hole in the fixed panel from the outside. Next, place the correct side of the inside back plate with the gasket in place into position. Connect these two components with the machine screws provided and tighten in place. **Always tighten the machine screws by hand!**
- Step 4** It is now time to install the notched transom panel. Place the outside cover plate with gasket attached over the notch in the transom, and align it with the edge of the glass. Slight pressure will hold it in place. Set the transom in the opening, and tighten it by securing the outside cover plate to the inside back plate with the provided machine screw. **Always tighten the machine screws by hand!**
- Step 5** If Glass-to-Glass Movable Transom Clamps are being used on both sides of the movable transom, repeat the above steps on the other side.

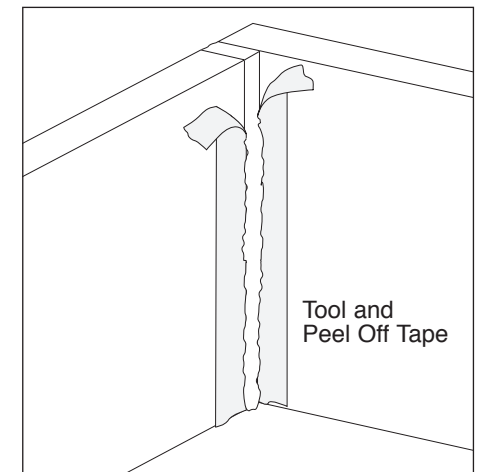
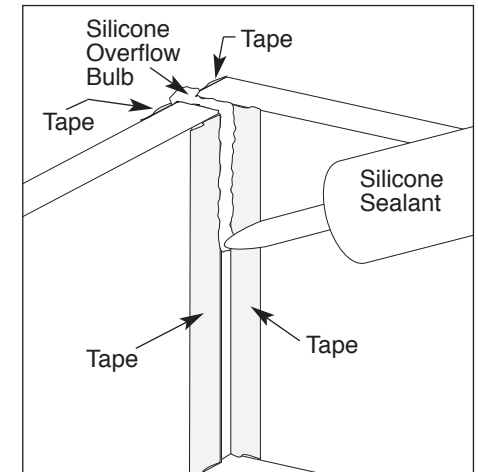
Most of the instructions above apply to the GCB335 (135 degree movable transom clamp) with the exceptions noted below:

- 1) The fixed panel is notched and the movable transom has a hole only
- 2) The portion of the clamp that goes on the movable transom, has the head of the flat head screw exposed.



Glass-to-Glass Panel Sealing Instructions - (For Glass Sizing see Section 2)

- Step 1** Both pieces of glass must be free of any grime, grease, oils or anything else that would prohibit good adhesion. Glass cleaner or rubbing alcohol makes a good cleanser.
- Step 2** Set glass and align to it's final position. Use tape, clamps or other mechanical means to secure the glass in this position (securing the glass at the top will facilitate the application of your sealant).
- Step 3** Now apply Blue Low Adhesive Transfer Tape to the glass at the desired sightlines. This will act as an edge masking after the sealant has been applied and tooled. The purpose of taping the glass is to prevent the sealant from smearing all over the glass when the bead is tooled. When the tape is removed while the sealant is still wet, it will produce a neat and attractive joint.
- Step 4** After the tape has been applied, it is now time to seal the joint. This process should be done from the inside of the shower. Cut the sealant tube nozzle to produce a small opening, then begin to apply the sealant to the joint. Apply the sealant from top to bottom, being sure that enough material has flowed into the joint to completely fill the void. This should create a bulb of excess sealant on the outside of the enclosure.
- Step 5** It's now time to tool the bead to it's final configuration. Start by removing the excess sealant from top to bottom. Use paper towels to wipe off the accumulated excess sealant frequently. This will prevent a large build-up of sealant that will overflow the edge of the masking tape. Repeat this process on the inside and the outside of the enclosure until "dry tooling" yields no more sealant. The final tooling that takes place will be a "wet tooling". The purpose of wet tooling is to thin out the sealant where it meets the tape. If the silicone is too thick, when the tape is removed, the edges of the bead will be "feathered". Therefore, tool the joint as tightly as you can to the edge of the tape. After final tooling, remove the tape immediately. Any "feathered" edges can now be lightly tooled with a wet finger. Caution: Do not over-tool, as this usually leads to a messy joint.

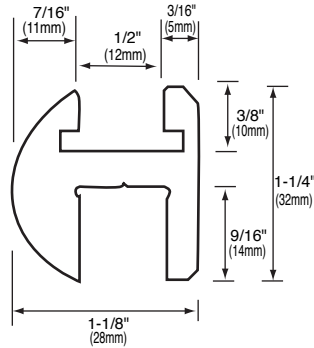


Deluxe Header Kit

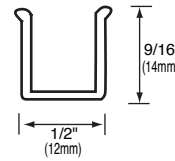
Deluxe Header Kit

Cat. No. SDH660-66" (1676mm) Length
 Cat. No. SDH980-98" (2489mm) Length
 Cat. No. SDH144-144" (3657mm) Length
Each Deluxe Header Kit Contains:

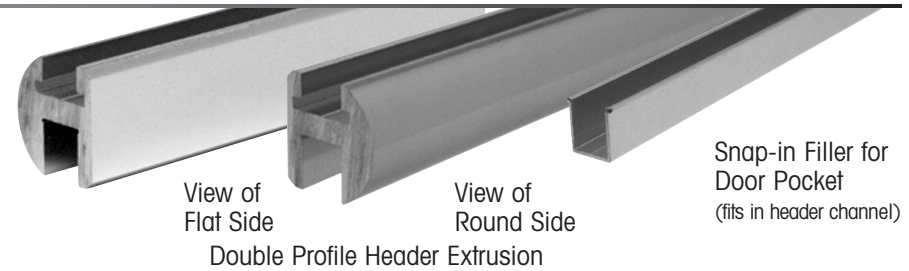
- 66" (1676mm), 98" (2489mm) or 144" (3657mm) Header Extrusion
- 36" (914mm) Snap-in Filler for Door Pocket
- Vinyl for 5/16" (8mm) and 3/8" (10mm) Glass (not required for 1/2" (12mm))
- Wall Mounting Brackets



Deluxe Header Extrusion



Snap-In Filler Insert

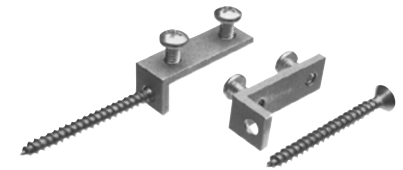


View of Flat Side
View of Round Side
Double Profile Header Extrusion

Snap-in Filler for Door Pocket
(fits in header channel)



Clear Vinyl



Wall Mounting Brackets

Brass Corners, Fixed and Adjustable Header Corners, 2-1/4" (57mm) Blank Mounting Bracket and Adaptor Blocks for use with Pivot Hinges are not included in the Deluxe Header Kit, and must be ordered separately (see below).

Deluxe Header Kit Options



90° Fixed Corner
Cat. No. CD390



135° Fixed Corner
Cat. No. CD395



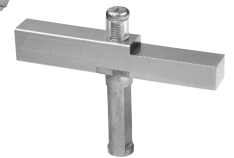
Adjustable Angle Corner
Cat. No. CD373



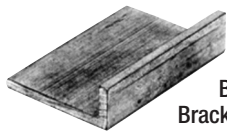
Prima, Cardiff, Shell and Rondo Pivot Hinge Installations Require Adaptor Block Below



Brass 135° Header Corner
Cat. No. BHC135



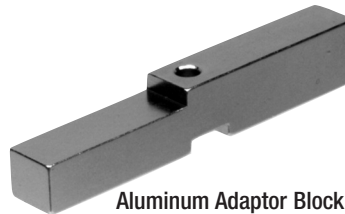
Adapter Block for Senior Prima and Senior Cardiff Hinges (screw provided)
Cat. No. SRHAB01



2-1/4" (57mm) Blank Mounting Bracket for Angled Applications
Cat. No. SHB225



Aluminum Wall Mounting Brackets Included in Kit. May Also Be Ordered Separately.
Cat. No. SHB100



Aluminum Adaptor Block for Prima, Cardiff, Shell and Rondo Hinges
Cat. No. HAB01



Brass 90° Header Corner
Cat. No. BHC90



Brass Wall Mount Brackets with screws (two per pack) Included in Kit. May also be ordered separately.
Cat. No. BWB2

(Continued on Page 3-25)

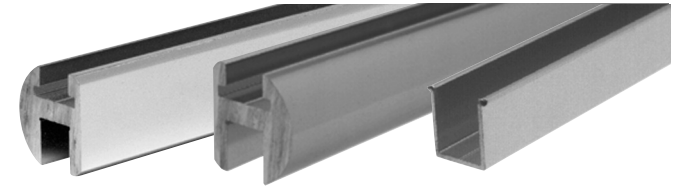
C.R. Laurence Co., Inc.
crlaurence.com

For technical assistance in the United States call toll free (800) 421-6144; from Canada call toll free (877) 421-6144; Outside the U.S. and Canada call (323) 588-1281. Ask for Tech Sales at Extension 7740. Toll free fax (800) 458-7496.

Deluxe Header Installation Instructions - (Continued from Page 3-24)

Locating and Attaching Wall Mounting Brackets

To find the desired wall location, take a level and make a pencil line up the wall corresponding to the center-line of the glass. Then take your tape rule and measure up from the curb 1" (25mm) less than the top height of the header. This will be the location of the wall mounting screw (#10 x 2" (51mm) Flat Head Phillips). Depending on the wall composition and backing, the installer must determine if a screw anchor is required or if the 2" (51mm) screw will reach a stud. **IMPORTANT:** Do not attach the mounting brackets at this time, as you will need them later in the installation to index the two hole locations in the header.



Locating and Attaching the Brass Wall Mount Brackets (If using in place of standard Aluminum Wall Mounting Brackets above)

To find the desired wall location, take a level and make a pencil line up the wall corresponding to the center-line of the glass. Then take your tape rule and measure up from the curb 1/4" (6mm) less than the top height of the header. This will be the location of the wall mounting screw (#10 x 2" (51mm) Flat Head Phillips). Depending on the wall composition and backing, the installer must determine if a screw anchor is required or if the 2" (51mm) screw will reach a stud. At this time, you may place the wall bracket in the end of the header that will be attached to the wall. Position the wall bracket to be flush to the end of the header piece. The hole in the end of the bracket will face the wall that you are attaching your header to. With the bracket in the correct position, tighten down on the Allen Head set screws (using a 3mm wrench) in the bracket until they are firmly tightened.

Cutting Header for Neo-Angle 135° Installations

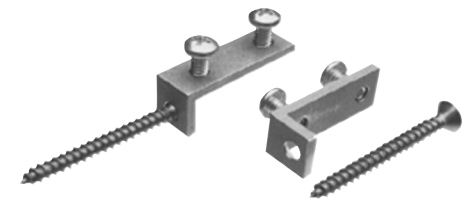
All reference measurements are obtained from the glass center-line measurements that you have previously designated on the bottom curb, step or wall. Neo-angle headers require 22 1/2° miters cut at the 135° angles, and 90° square cuts where they meet the wall (unless the wall is angled, which will require an appropriate angle cut). The top channel of the header has a recessed "V" line running the length of the extrusion. This line matches the center-line of the glass, so all cutting measurements should be taken from point to point along this line. Example: A door opening width is 25" (635mm) center-line measurement, and the side panels on each side of the door return at a 135° angle. You know that the header above the door will require a left hand 22-1/2° miter on one side and a right hand 22-1/2° on the other side. To be sure you have cut the extrusion the proper length, take a tape rule and measure the length of the extrusion at the "V" line. If it matches your designated measurement, your extrusion is cut the correct size. Hint: It is better to cut your extrusion a little long and nibble cut it to the proper length, than to cut it short and have to throw it away. The header for the side panels requires a 22-1/2° miter cut on one end and a 90° square cut on the other end. The lengths of these cuts are also measured down the "V" line. If the walls are square, the cut length will match the previously designated length from the bottom measurements. However, if the walls slant in or out, you will have to add or deduct the in or out measurement from your designated length.

Cutting Header for 90° Return Installations

The basic instructions for 135° Neo-Angle Installations (above) should be followed, except the miter cuts at the return will be 45°. The ins or outs should be added or deducted when making the cut.

Fabricating Header Ends for Wall Mounting Brackets

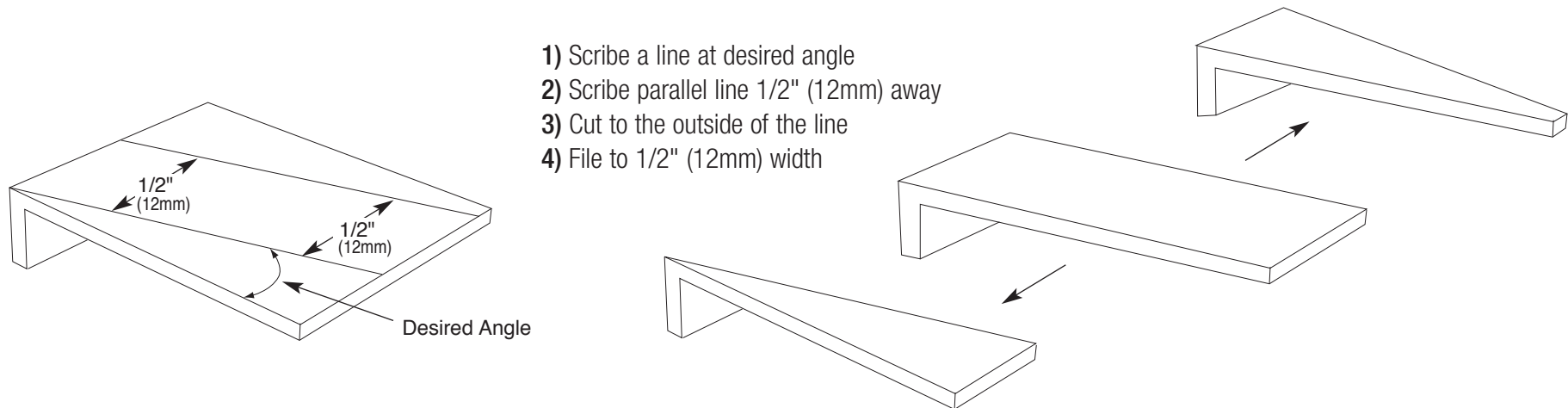
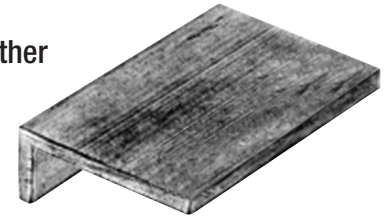
Lay the header on top of a table or other firm surface, with the shallow "T" slot channel facing up (be careful not to scratch header). Slide the wall mounting bracket in the channel with the short leg facing up and to the outside. Slide the wall mounting bracket in until the end of the bracket is flush with the cut. Then center punch the hole locations using the "V" line as center indexing point. Remove the bracket and drill the two holes with a 3/16" (5mm) drill (holes are drilled completely through the cross section). After drilling the two holes, deburr them with a #8 counter sink. Repeat above operation on the other end of the header. Set brackets and screws aside for now.



(Continued on Page 3-26)

Fabrication and Installation of Cat. No. SHB225 Angled Header Mounting Brackets

Cat. No. SHB225 Blank Mounting Brackets are only used for applications where the header mounts to the wall at an angle other than 90°. The 2-1/4" (57mm) wide bracket allows for making angled brackets in a wide variety of degrees. Take the bracket and scribe a mark on the top side of the long leg, from the back edge of the bracket at the angle you desire. Now scribe a line parallel to the original line 1/2" (12mm) away. This will give you the desired clip width of 1/2" (12mm). Cut the excess material off on either side of the scribed lines and file smooth. Scribe a line down the top of the bracket 1/4" (6mm) in from the edge. This will be the center-line for your tapped holes. From the back of the bracket, scribe a cross line over the center-line in 3/8" (10mm) and 1-1/4" (32mm) to mark the hole centers. Drill these two hole centers with a No. 25 H.S. Drill and tap them with a 10-24 tap. The short leg of the bracket needs to be drilled with 3/16" (5mm) H.S. Drill in the center and then countersunk with a #10 countersink, from the side with the long leg. The bracket is now ready to be attached to the header, but first you have to drill two clearance holes through the cross web of the header. To do this, slip bracket in the bottom channel of the header (the same channel your glass fits in), with the back edge of the bracket flush with the mitered cut. Take a center punch and mark the hole centers using the tapped holes in the bracket as guides. Drill these two holes with a 3/16" (5mm) H.S. Drill and remove the burr on each side with a #8 countersink. Being as you will not be using the screws from one of the 90° brackets supplied with the header, these screws can be used on your angled bracket. The bracket can be attached to the header by simply sliding the bracket in the bottom channel, and securing it from the top through the cross web with two each #10-24 x 3/8" (51mm) Pan Head Phillips Screws. Place the header in position and mark the wall screw hole location. Remove the header and then remove the angled bracket. Drill the wall at the designated location, insert a screw anchor, and secure the clip to the wall with the #10 x 2" (51mm) Flat Head Phillips Screw. You can now re-install the header and secure it with the two each #10-24 x 3/8" (10mm) Pan Head Phillips Screws.



(Continued on Page 3-27)

Deluxe Header Installation Instructions - (Continued from Page 3-26)

Installation of Aluminum Header Corners at the Mitered Joints

Slide the appropriate angled corner into the "T" slot in the top of the header, and close the joint to a tight fit. Then center punch the holes in the angled corner and drill through the cross section of the header with a #27 high speed drill. Insert screws and tighten.

Installation of Brass Header Corners at the Mitered Joints

Slide the appropriate angled corner into the "T" slot in the top of the header, and close the joint to a tight fit. Tighten the Allen Head set screws using a 3mm wrench. When all the set screws are tightened firmly, the corner is complete.

Header Installation Using Wall Mount or Glass-to-Glass Hinges

Now that the header has been cut and fabricated we can start the installation. The first step is to secure the wall mounting brackets to the wall with the #10 x 2" (51mm) Flat Head Phillips Screw. The location was determined earlier in the procedures. Now we need to do our first test fit by dropping the header over the wall mounting brackets, checking for hole alignment and fit to the wall. Proceed if this is satisfactory. Because the clear vinyl secures the header tightly to the glass (except for 1/2" (12mm) thick glass where vinyl is not required), it is suggested that when you do the second test fit that you only use two 1" (25mm) pieces of vinyl at each side of your fixed panels. The second test fit involves setting your fixed panels in place with the 1" (25mm) strips of vinyl on the top. Drop the header down over the wall brackets with the supplied screws, and test for fit and rigidity. If everything is fine remove the header, put full length strips of clear vinyl on top of the glass, and install the header (see Figure A below). Measure the open channel space above the door. Cut and install the Snap-In Filler Insert. Install the door with proper clearances, and apply pre-designated wipes and seals.

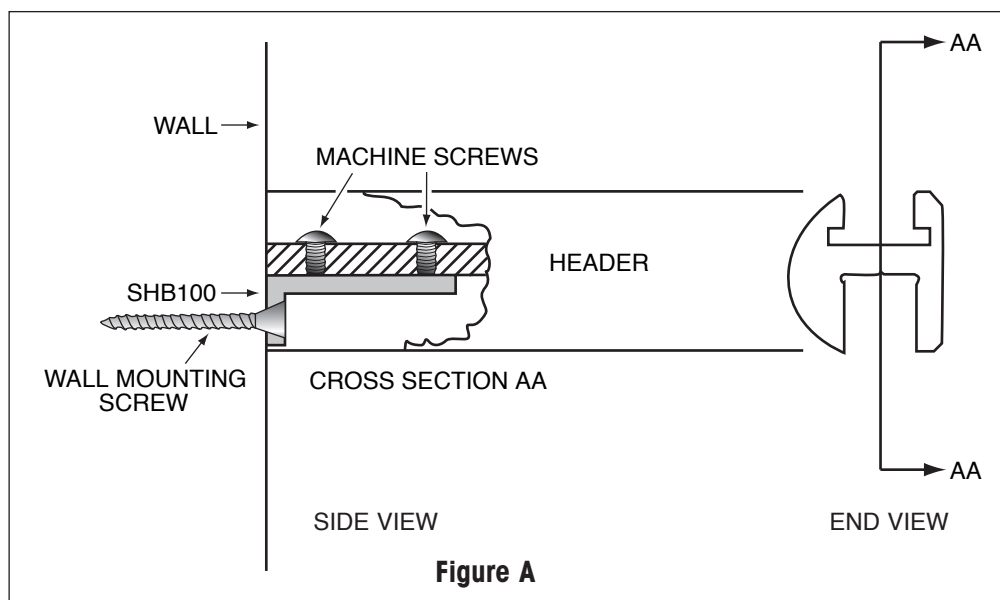
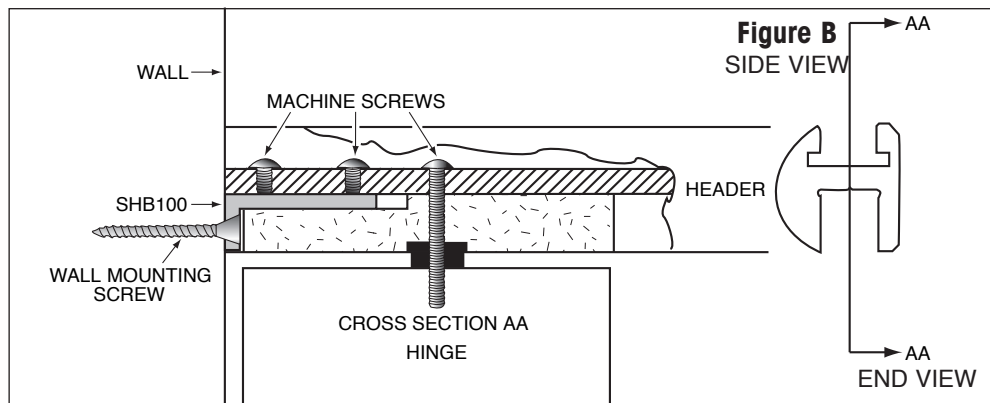


Figure A

(Continued on Page 3-28)

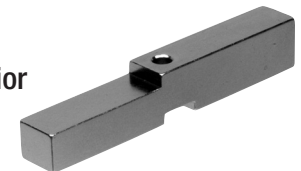
Header Installation Using Top and Bottom Pivot Hinges-For instructions Adapting the Senior Prima or Senior Cardiff Hinge into the Header, see bottom of page

Now that the header has been cut and fabricated we can start the installation. The first step is to secure the wall mounting brackets to the wall using the #10 x 2" (51mm) Flat Head Phillips Screws. The location was determined earlier in the procedures. Now we need to do our first test fit by dropping the header over the wall mounting brackets, checking for hole alignment and fit to the wall. If this is satisfactory proceed to the next step. Because the clear vinyl secures the header tightly to the glass (except for 1/2" (12mm) thick glass where vinyl is not required), it is suggested that when you do the second test fit that you only use two 1" (25mm) pieces of vinyl at each side of your fixed panels. The second test fit involves setting your fixed panels in place with the 1" (25mm) strips of vinyl on the top. Drop the header down over the wall brackets with the supplied screws, and test for fit and rigidity. If everything is fine remove the header, put full length strips of clear vinyl on top of the glass, and install the header. Before installing the Top and Bottom Pivot Hinges two factors must be considered. First of all, check the hinge location on the door glass. Is it even with the edge of the glass, or is it inset to reveal a full length glass edge or to clear a towel bar on the wall? Secondly, what is the clearance between wall or fixed glass, and the edge of the door? The Prima Hinge is 3-5/8" (92mm) wide which makes the center of the pivot pin 1-13/16" (46mm) in from the edge of the hinge. Example A: The hinge is mounted even with the edge of the door glass and there is a 3/16" (5mm) clearance gap between it and the wall or fixed glass (center-line of hinge pin 1-13/16" (46mm) plus clearance gap 3/16" (5mm) = 2" (51mm)). This is how far in the center-line of the pin should be away from the wall or fixed glass. Example B: The hinge center-line is inset 2-5/8" (67mm) in from the edge of the glass to create a 13/16" (21mm) glass strip beyond the hinge, and there is a 1/8" (3mm) clearance gap between it and the wall or fixed glass (centerline of hinge pin 2-5/8" (67mm) plus clearance gap 1/8" (3mm) = 2-3/4" (70mm). This is how far in the center-line of the pin should be away from the wall or fixed glass. The distance from the wall or fixed glass to the center-line of the pin must be determined prior to installing the Header Adapter Block. The Header Adapter Block is mounted in the bottom channel of the header, with the "U" cutout that has a hole in the middle of it facing the bottom, and the notch in the top faces the mounting bracket below. The block can be slid to the left or the right so the center-line of the hole matches the center-line of the pin, which was already determined using Example A or B. Using a #7 Drill High Speed Bit inserted in the hole in the block, drill a hole completely through the header cross web. After drilling the hole, deburr it with a #8 counter-sink. Then remove the base plate from the hinge and insert the square base of the pin into the Adapter Block, securing it from above with a pan head screw (supplied with the block). Now mount the bottom hinge using the same pin center-line measurements. Then measure the open channel space above the door, cut and install the Snap-In Filler Insert. Install the door with proper clearances, and apply pre-designated wipes or seals.



Header Adapter Block

**(Sold Separately. Not Included in Header Kit.)
For Use with Prima, Cardiff, Shell, Rondo, Senior Prima or Senior Cardiff Hinge.**



This block fits in the lower channel of the header and will slide sideways to any position you require. The block has a clearance notch on the top of it to fit under the wall bracket when the hinge will be mounted close to the wall (see Figure B on previous page). Installation is easy. Remove the base plate of the hinge being mounted with Header. Slide the block to the desired position, and drill a 3/16" (5mm) hole in the Header from the bottom using the hole in the block as a guide. The Senior Prima or Senior Cardiff hinge can be adapted into the Deluxe Header using the SRHAB01 Header Adapter Block. The only difference between using the Senior Hinges and the regular Pivot Hinge, is that the SRHAB01 comes with a pivot attached. The factory-installed pivot pin must be removed from the Senior Hinge and the pivot pin attached to the SRHAB01 is to be installed into the hinge.

3-28



Installation Instructions for PPH06 or SRPPH06 Hinge installed into E-Z Adjust Shower Door Header

(For complete Header Installation Instructions, see pages 3-24 through 3-28 in the SDT21 Frameless Shower Door Guide)

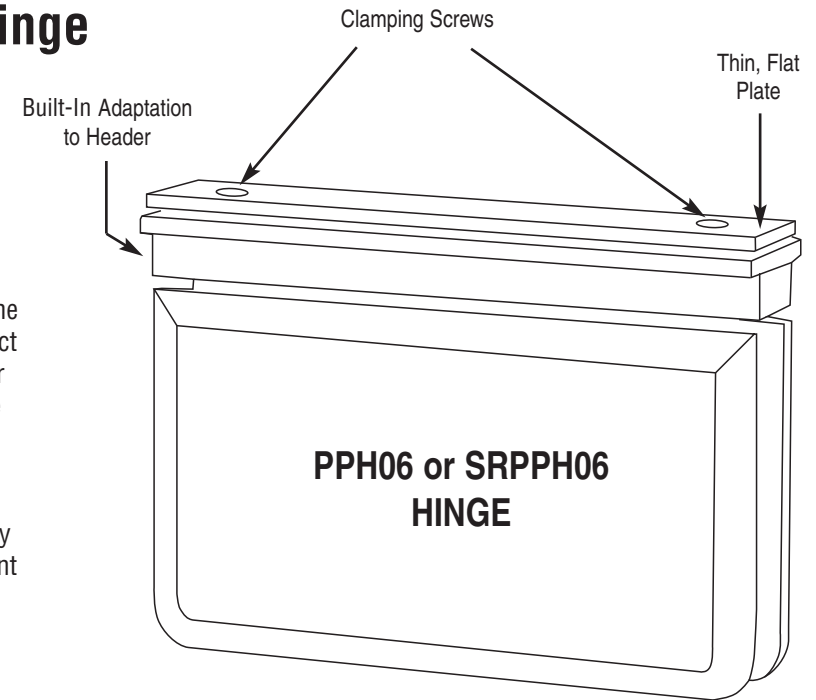
The PPH06 or SRPPH06 hinge must be end-loaded from an open end of the header. If the door is to be fastened to the header in a section that joins the wall, simply slide the hinge in from the end of the header that mounts to the wall. If the hinge is to be mounted in a section of header that doesn't connect to the wall, loosen the corner bracket that connects the header pieces, closest to the final location your hinge is to be mounted. Pull the header pieces apart from one another, and end-load the hinge into the open end of the header.

Fasten the hinge into the header by clamping the built-in adapter portion of the hinge to the thin, flat plate portion. It is recommended to temporarily place the hinge in the header, centered where the door will be permanently fastened. Tighten the screws that clamp the adapter to the thin plate until they are snug. The object is to avoid having the hinge slide around while placing the header to its permanent position. Re-assemble the corner brackets into the header and permanently install the header.

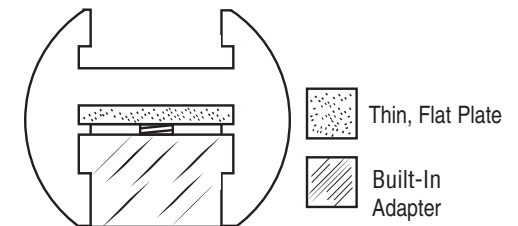
With the hinge integrated into the header and the header permanently installed, the door can now be fit into the opening. Loosen the clamping screws in the adapter and slide the hinge into the correct position. Tighten the clamping screws in the adapter portion to the thin, flat plate portion. Mount the door to complete the process.

Fine-tune Adjusting the PPH06 or SRPPH06 in the E-Z Adjust Shower Door Header:

Upon final installation of the PPH06 or SRPPH06, it may necessary to make a slight adjustment side-to-side. Perhaps the edge of the top hinge isn't flush with the edge of the door glass, or the top hinge is slightly out of alignment with the bottom hinge. The PPH06 and SRPPH06 allow for a side-to-side adjustment with the door in place. To adjust the hinge from side-to-side, open the door to 90° and loosen the clamping screws on the adapter. Slide the hinge to the desired position. Re-tighten the clamping screws. The top hinge has been moved, so it may be necessary to adjust the door within the hinge. If an adjustment is required, slowly close the door until it is in the final closed position. Place wood shims under the door glass and adjust.



EZ-Adjust Header





C.R. LAURENCE CO., INC.
PROFESSIONAL QUALITY

C.R. Laurence Company has established a Technical Sales Department to assist our customers. If you have any questions concerning shower door hardware or any product from CRL, please contact us at:
**(800) 421-6144 in the U.S.,
or (877) 421-6144 from Canada,
and ask for Extension 7740**

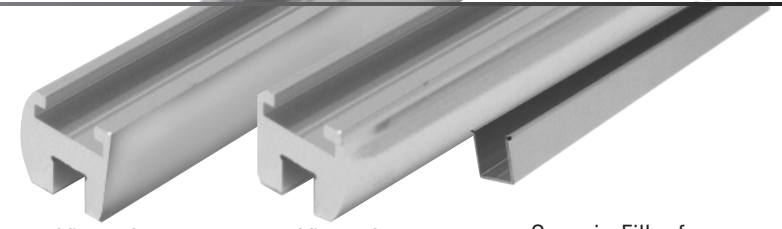
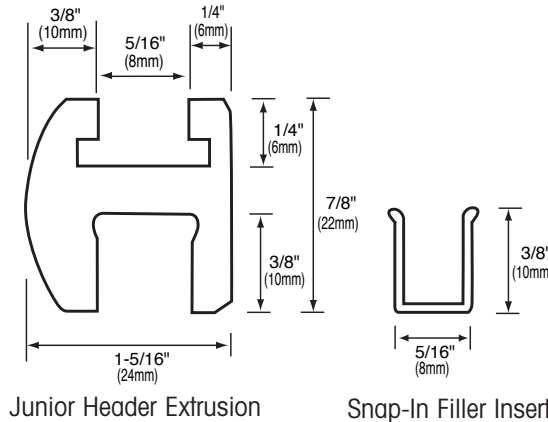
Junior Header Kit

Junior Header Kit

Cat. No. HEADER06-98" (2489mm) Length

Each Junior Header Kit Contains:

- 98" (2489mm) Header Extrusion
- 36" (914mm) Snap-in Filler for Door Pocket
- Vinyl for 1/4" (6mm) Glass
- Wall Mounting Brackets
- Four Angle Corners (Two Fixed 135° and Two Adjustable)



View of Flat Side
View of Round Side
Double Profile Header Extrusion

Snap-in Filler for Door Pocket
(fits in header channel)



Clear Vinyl



135° Fixed Corner
Cat. No. CD395



Adjustable Angle Corner
Cat. No. CD373



Wall Mounting Brackets
Cat. No. CD406

Fixed 90 Degree Corners, and Junior Adaptor Block for use with Junior Pivot Hinges are not included in Junior Header Kit, and must be ordered separately (see below).

Junior Header Kit Options



90° Fixed Corner
Cat. No. CD390



Junior Prima
Installations Require
Adaptor Block

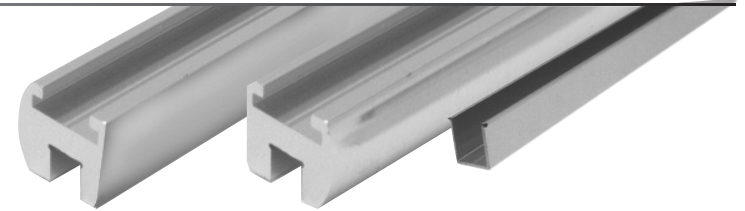


Adaptor Block for
Junior Prima Hinge
Cat. No. JRHAB01

Installation Instructions for Junior Header (Cat.No. HEADER06)

JUNIOR HEADER INSTALLATION INSTRUCTIONS

The preceding pages have addressed the installation of our Deluxe Header Kit. The Junior Header Kit is substantially similar to the Deluxe Header in many ways. Most of the information can be used to work with the Junior Header Kit. The primary difference lies in the mounting of the wall brackets.



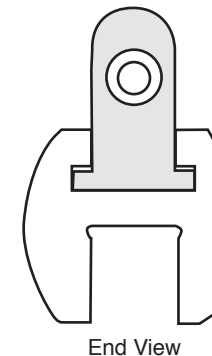
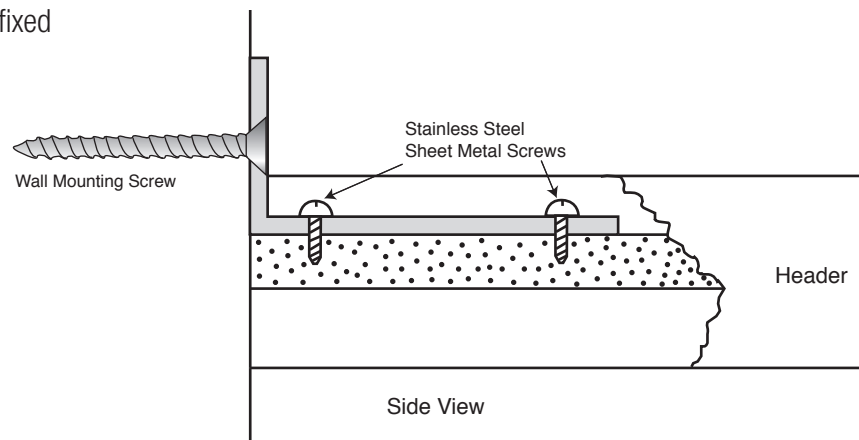
Note: When adapting the JRPPH01 hinge into the Junior Header, you may use the same information shown on page 3-28 with a notable exception. For the placement of the pivot hinge using 3/8" (10mm) or 5/16" (8mm) glass a dimension of 1-13/16" (46mm) has been provided as the center-line from the edge of the hinge to the center of the pivot pin. This information has been provided to aid in determining the placement of the Header Adapter block. When using the Junior Prima pivot hinge, the center-line from the edge of the hinge to the center of the pivot pin is 1-1/2" (38mm). Use this dimension for your calculations.

ATTACHING WALL MOUNT BRACKETS

The wall mount brackets are designed to fit into the slotted portion of the Junior Header Extrusion. After cutting the header to the correct size, fit the wall mount bracket into the end of the header that is to be attached to the wall. Make sure that the end of the bracket is flush with the end of the header. After assuring that the bracket is properly positioned, mark the two holes that are going to hold the bracket to the header. Remove the bracket and drill the holes for the #6 X 3/8" (10mm) stainless steel sheet metal screw. The correct size hole to be drilled is a #27 high speed drill bit. After drilling the two holes, fasten the bracket permanently to the header.

The header is ready to be placed into position so that the hole can be drilled into the wall to accommodate the wall mount bracket. Use a couple of 1" (25mm) pieces of the clear vinyl on top of the glass that the header is going to capture, in order to be assured that the header is positioned the way you want it. Once the header is in the desired position, mark the wall that will be drilled to accept the wall mount screw. Remove the header and set aside for mounting after the drilling is completed. Depending on the wall composition and backing, the installer must determine if a screw anchor is required or if the 2" (51mm) screw will reach a stud.

Put the full-length pieces of vinyl on top of the fixed glass and sleeve the header on the top of the fixed glass to the desired position. Mount the wall mount screw through the bracket and fasten it permanently to the wall.



3-28D

Installation Instructions - Accessories

SUPPORT BARS

Wall-to-Glass Bars

The Wall-to-Glass Bar has a bell-shaped clamping device on the wall side, and a solid brass end cap with a swiveling U-shaped receptacle on the other side to secure the fixed panel. Nylon-tipped set screws tighten down to secure the glass and prevent glass-to-metal contact. Simply cut to size.



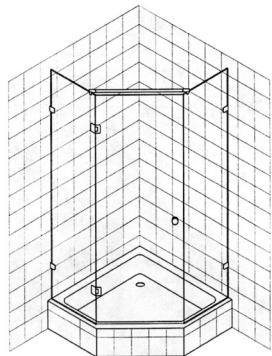
Glass-to-Glass Bars

The Glass-to-Glass Bar has a solid brass end cap with a swiveling U-shaped receptacle on both sides to secure each fixed panel. Nylon-tipped set screws secure the glass to prevent glass-to-metal contact. Simply cut to size.

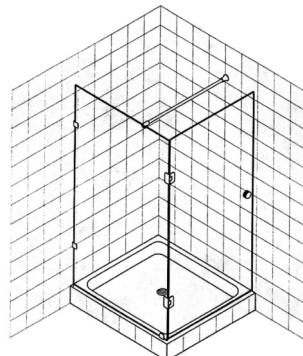


45° Wall Mounting Bracket

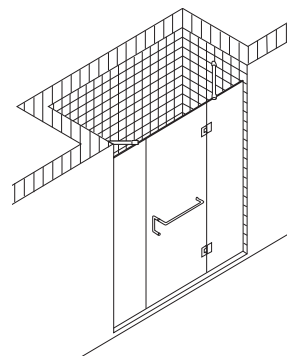
The 45° Support Bar Wall Mounting Bracket is designed to project off the wall at a 45° angle, and easily attach to the wall by slipping over a screw mounted stud that is secured into the wall. Perfect for retrofitting enclosures that need the panel or panels to be secured to an adjacent wall for stability. The Bracket is used in conjunction with the individual Support Bar appropriate for your application.



Typical Glass-to-Glass Installation



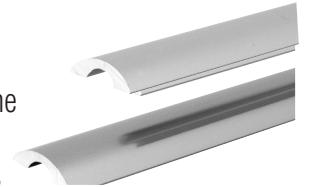
Typical Wall-to-Wall Installation



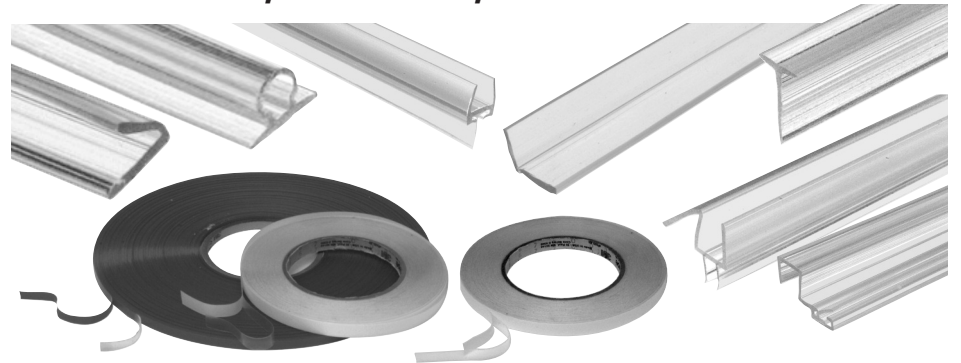
Typical 45° Wall Mounting Bracket Installation

THRESHOLD

The Shower Door Threshold is mounted directly below the shower door, and assists in having the water drain back into the shower stall. The underside of the Threshold has a hollow center to accept a bead of silicone sealant used to adhere it to the curb of the shower stall. Simply cut to size and apply. If using a bottom wipe above the Threshold, the wipe should drag gently across the top of the Threshold.



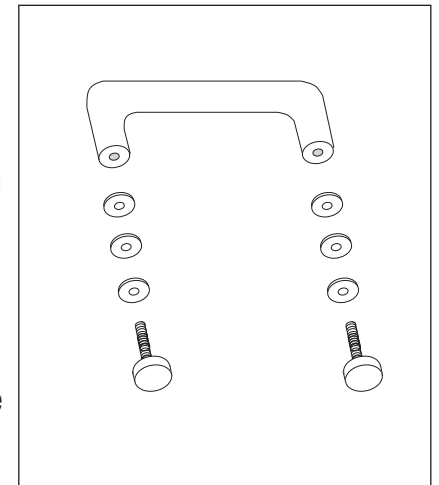
POLYCARBONATES, VINYL SEALS, EDGE WIPES AND TAPES



Our line of Wipes and Seals comes in either snap-on or tape applied styles. The snap-on types are made to apply snugly to the appropriate glass thickness. Some varieties of Wipes and Seals are applied using our VHB (Very High Bond) Tape. The tape can be applied to the proper edge of the seal before you go to the job site. Since our VHB Tape gains strength with age (full bond after 72 hours), pre-applying the tape will result in a stronger bond. As a helpful hint, when using our Bulb Seal or our "V" Seal, apply a thin coating of petroleum jelly along the entire strike edge of the vinyl to allow smoother and quieter door closure. C.R. Laurence's line of Wipes and Seals all come in 98" (2489mm) stock lengths. They can be easily cut to size for your particular application.

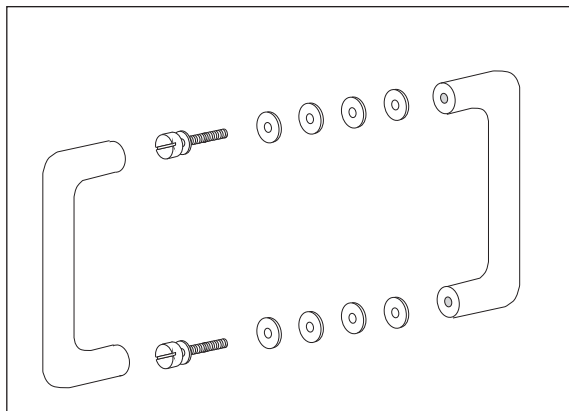
Single-Sided Towel Bar or Door Pull Installation Instructions

There are five hardware components for mounting: Two end-caps with threaded studs; two 1-1/4" (32mm) diameter style washers; pull or the towel bar itself. In addition to these hardware parts, there are four clear gaskets that act as a buffer between the hardware and the glass. Take both of the end caps with the threaded studs protruding, and sleeve one gasket on each. From the inside of the shower, push the end cap with threaded stud through the hole in the glass. Sleeve a clear gasket on this stud on the outside of the enclosure. Now sleeve the 1-1/4" (32mm) style washer onto the stud from the outside. Place the pull or towel bar into position and thread the stud into the bar until tight. Repeat this process on the other end. **Note:** For instructions on mounting back-to-back pull or towel bars, see below.



Back-to-Back Door Pull or Towel Bar Mounting Instructions

There are six hardware components for back-to-back mounting: Two pulls; four 1-1/4" (32mm) style washers. In addition to these hardware parts, there are four clear gaskets and two stud head mounting screws. A decision must be made at this time as to the location of the half of the pull that contains the set screws. Most people put the set screws to the outside of the enclosure, so they aren't exposed to direct water contact. These instructions will address this application.



- Step 1** Take the two stud head mounting screws and sleeve one 1-1/4" (32mm) style washer on each screw. Next, sleeve one of the clear gaskets onto the screw. From the outside of the enclosure, push the thread of the screw through the hole in the glass. On the inside of the enclosure, sleeve a clear gasket onto the threads of the screw. Place the 1-1/4" (32mm) style washer over the threads and onto the glass.
- Step 2** Take the pull that has the smaller threaded holes in each end and begin to thread the screw into it. Line up the other end of the pull with the other screw and begin to thread it through as well. Tighten both screws to "finger-tightness", then tighten the stud head screws down permanently with a screwdriver.
- Step 3** Place the remaining pull, with the large holes in each end as well as a set screw, onto the stud heads of the screws. Tighten the set screws with the Allen wrench provided.

For mounting instructions using acrylic components, please call (800) 421-6144 ext. 7740.

Installation Instructions - Accessories

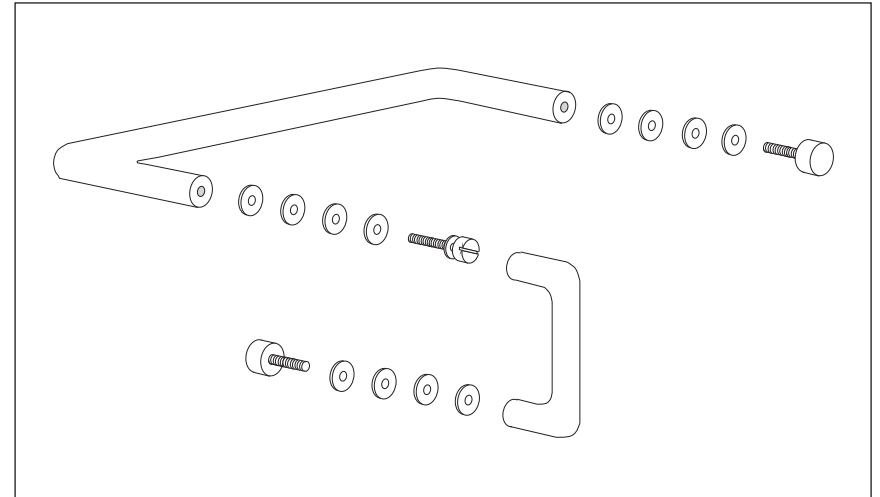
Combination Door Pull and Towel Bar Installation Instructions

There are eleven hardware components for Combination Door Pull and Towel Bar mounting: Six 1-1/4" (32mm) style washers; one towel bar; one pull; two 3/4" (19mm) tall end caps with threaded studs; one stud head screw. In addition to these hardware parts, there are six clear gaskets that act as a buffer between the hardware and the glass.

Step 1 Take the stud head screw and sleeve a 1-1/4" (32mm) style washer on it. Now take both 3/4" (19mm) tall end caps with a stud protruding and sleeve a 1-1/4" (32mm) style washer on them. Sleeve a clear gasket on each of the screws.

Step 2 The towel bar will be mounted first. Take the stud head screw with the washer and gasket attached, and from inside the enclosure push the threaded portion through the top hole in the glass on the strike side of the door. Place a clear gasket, then a 1-1/4" (32mm) style washer over the stud head screw on the outside of the glass door. Now thread the stud head screw into the towel bar and tighten. On the other end of the towel bar (on the door hinge side), push one of the 3/4" (19mm) tall end caps with the stud protruding through the hole. Now place a clear gasket, then a 1-1/4" (32mm) style washer over the threaded stud on the outside of the glass door. Thread the 3/4" (19mm) tall end cap into the towel bar and tighten by hand. Tighten both components down, the stud head screw with a screwdriver, and the 3/4" (19mm) tall end cap by hand.

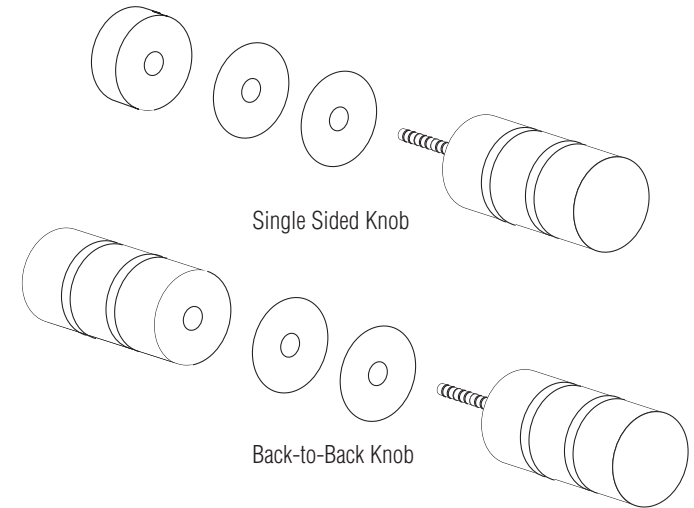
Step 3 The towel bar is now complete and it is time to mount the pull portion. From outside the enclosure, push the 3/4" (19mm) tall end cap with the stud protruding through the bottom hole in the door. First place a clear gasket, then a 1-1/4" (32mm) style washer over the threaded stud on the inside of the glass door. Now thread the stud into the small threaded opening of the pull. Do not tighten this end of the pull down at this time. Place the end of the pull with the large hole and the set screw over the stud head. Now, tighten the 3/4" (19mm) end cap by hand as tight as possible. Use the Allen wrench provided to tighten the set screw on the pull to the stud head screw.



For mounting instructions using acrylic components, please call (800) 421-6144 ext. 7740.

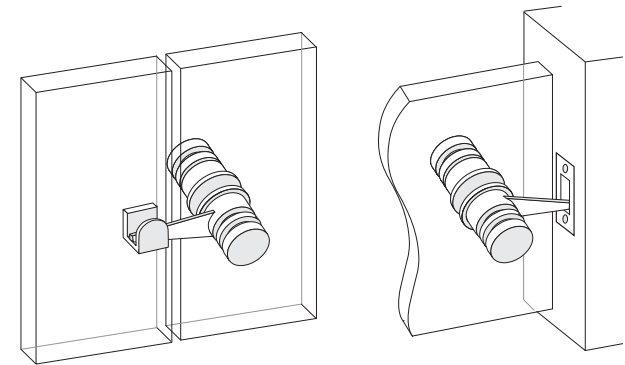
Knob Installation Instructions (Single-Sided and Back-to-Back)

There are two hardware components for knob mounting. The single-sided knob consists of the knob itself (with a threaded stud), and one end cap. The back-to-back knob consists of two knobs (with a threaded stud). In addition to these hardware parts, there are two clear gaskets that act as a buffer between the hardware and the glass. Take the end cap with threaded stud (for single-sided mounting), or one side of the knob with the stud protruding (for back-to-back mounting), and sleeve a clear gasket on it. From the inside of the shower, push the threaded stud through the hole in the glass. Sleeve the clear gasket on this stud on the outside of the enclosure. Place the knob into position and thread the components together.



KNOB LATCH INSTALLATION INSTRUCTIONS

The Knob Latch is more detailed to install than pulls or knobs, and requires more verbiage to explain the installation. We have put the complete detailed instructions behind the appropriate template in Section 4. See **Pages 4W-9 to 4W-14** in Section 4.



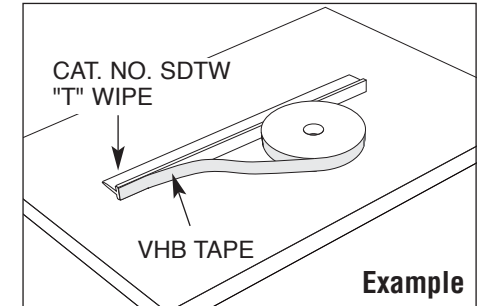
Glass-to-Glass Installation

Wall Mount Installation

Glue-on Wipes and Seals Installation

Note: We suggest pre-applying the Double-Sided Clear VHB Tape to the wipe or seal. You may do this either at the shop or on the job site. Always leave the red lining on until you are ready to apply the tape to the glass or wall.

Step 1 The easiest way to apply the Clear VHB Tape is to lay the seal or wipe on a flat tabletop, with the hard side that the tape is going to be applied to, in a vertical plane. **Important Note:** Be sure your table surface is clean, as any dust, grime or dirt on the surface will stick to the edge of the VHB Tape. Then peel the Clear VHB Tape from the roll, leaving the red liner still attached (this will add the needed rigidity to the tape that is necessary to apply it straight and without gaps). With the seal or wipe on the table and the hard side running vertically, start adhering the tape from one end using the table surface as an edge alignment guide. Continue adhering the tape until you have run it 1" (25mm) past the opposite end of the seal or wipe. This is very important because it is a little difficult to separate the red liner from the tape because it's so sticky. By separating the tape at the 1" (25mm) over-run end, any deforming to the tape will occur in the scrap area. After the red liner has been removed, cut off the 1" (25mm) of scrap tape.



Step 2 Make sure the glass/tile and the seal or wipe is free of any grime, grease, oils or anything else that would prohibit adhesion. Glass cleaner or rubbing alcohol makes a good cleanser. After wiping the area dry with a wipe, allow a couple of minutes for any remaining moisture to evaporate.

Step 3 Applying the pre-taped wipe or seal to the glass or wall is fairly simple.

When using vinyl seals or wipes that have a 5/16" (8mm) back, do the following:

(a) On glass: Apply the tape to the edge of the glass using the back side of the glass panel as an alignment guide.

(b) On walls: You will have to do some prep work. Using a pencil, draw a line down the wall that matches the center-line of the door glass. Then measure into the shower 5/32" (4mm) from that line, on the top and bottom. Now take a straight edge and draw a line between these marks. This will be your guideline. Run Blue Low Adhesive Transfer Tape along this line with the tape being applied toward the inside of the shower. Press the tape firmly in place. Use glass cleaner or rubbing alcohol to clean off the original penciled center-line. Now apply your seal or wipe to the wall, using the outside edge of the Blue Low Adhesive Transfer Tape as a guideline. After the seal or wipe has been adhered, remove the Blue Low Adhesive Transfer Tape.

(c) Tooling the Tape: After the seal or wipe has been applied, burnishing will be required. To do this, simply take a piece of plastic or wood (so you won't mar the vinyl) and rub it up and down the outside of the vinyl to apply pressure to the tape, and assure full contact and good adhesion. The initial adhesion will be 50%, going up to 100% after 72 hours.

When using "L" Jamb do the following:

(a) Put the "L" Jamb with the pre-applied VHB Tape on the door edge facing the wall or adjacent glass panel. Taking small strips of Blue Low Adhesive Transfer Tape, tape the side of the "L" Jamb that doesn't have the VHB Tape on it to the front or back side of the door (depending on your installation requirements), with the other leg tight against the edge of the glass. Close the door to it's desired position, and starting at the top, remove the top strip of Blue Low Adhesive Transfer Tape. Slide the "L" Jamb towards the wall or glass panel until it makes contact. Continue this process on the next strip of tape until you have gone all the way down the door.

(b) Tooling the Tape: After the "L" Jamb has been applied, burnishing will be required. To do this, simply take a piece of plastic or wood (so you won't mar the vinyl) and rub it up and down the outside of the "L" Jamb to apply pressure to the tape, and assure full contact and good adhesion. The initial adhesion will be 50%, going up to 100% after 72 hours.



This Information Applies to EK Series Sliders

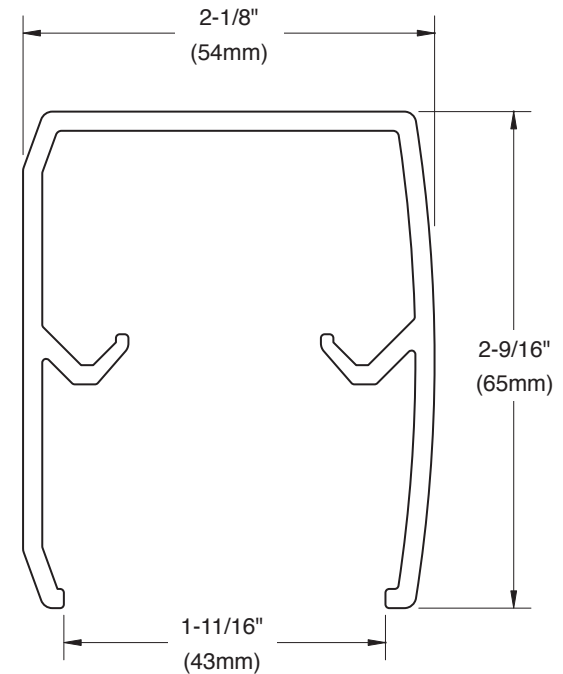
(Fabrication and Glass Sizing Information is shown Section 2)

Assembly Instructions for EK Series Sliders:

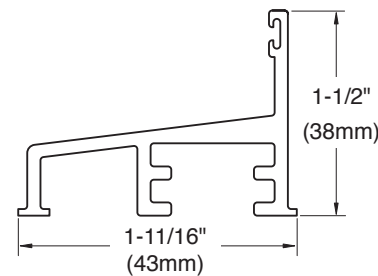
1. Clean the top edge of the glass to fasten the Roller Brackets.
2. Place the Roller Brackets approximately 2" (51mm) in from the vertical edge of the glass to the edge of the Bracket. There is no adhesive required.
3. Place the loose clamping plate between the Allen head set screws and the glass.
4. Tighten the Roller Brackets with the T-handle Allen wrench provided, until the wrench twists a quarter turn.

Installation Instructions for EK Series Sliders:

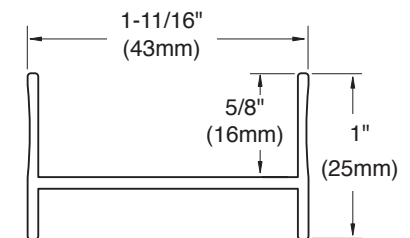
1. Place the Bottom Track in the desired position on the tub/curb. Use a level to plumb your Side Jamb. Mark the holes for drilling.
2. Drill the holes into the vertical walls. Use the appropriate anchors to prepare for fastening Side Jamb.
3. Run a bead of Clear Silicone to the underside of the Bottom Track. Immediately put the Track into position.
4. Fasten the Side Jamb into the vertical walls using the screws provided. Be sure to clean up any excess silicone at this time.
5. Install the Header and fasten it to the Side Jamb on the inside.
6. Hang the panels (the inside panels is hung first). Make the necessary adjustments to accommodate for out-of-level/plumb conditions.
7. Attach the Single-Sided Knob to the inside panel and Single-Sided Towel Bar to the outside panel.
8. Run a bead of Clear Silicone at each end of the Bottom Track where it meets the Jamb.
9. Allow 24 hours for the Silicone to cure prior to using the enclosure.



Header



Bottom Track

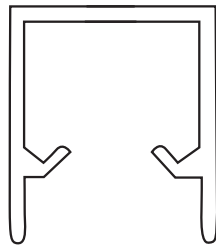


Side Jamb

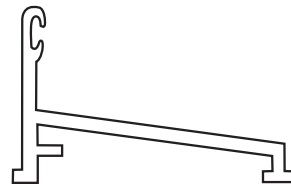
Frameless Double KD Slider Kits

This information applies to Cat. No.'s S146060, S146072, S386060 and S386072

(For units with inline and return panels, instructions are available upon request)
(Fabrication and Glass Sizing Information is shown in Section 2.)



Header



Bottom Track



Top Rail



Side Jamb

NOTE: Follow these assembly instructions 48 hours prior to the installation.

Assembly Instructions:

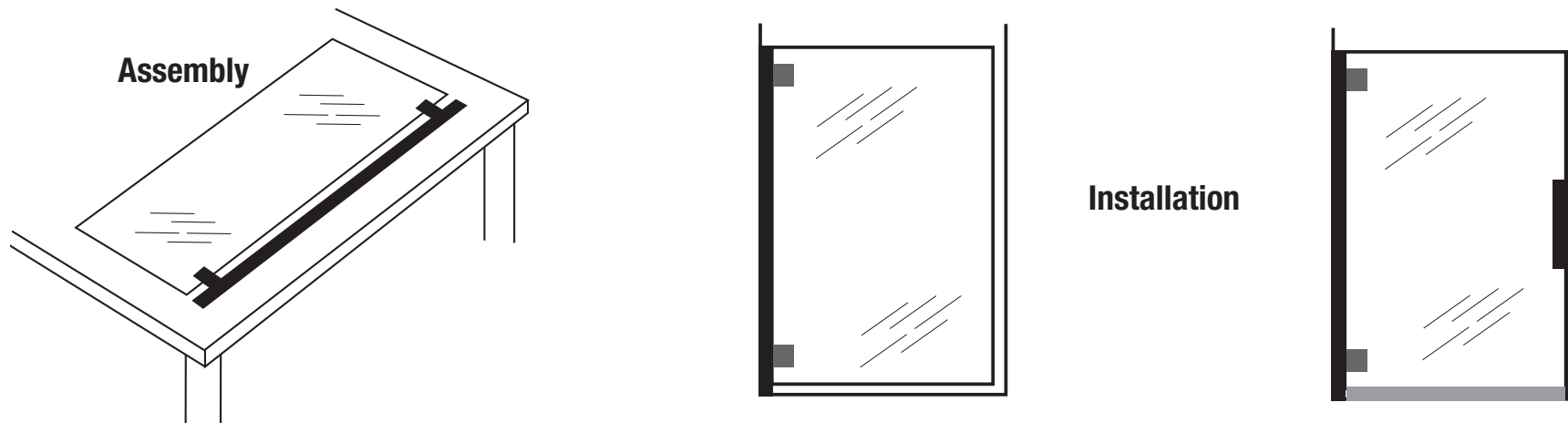
1. Lay the glass on a clean assembly table. Test fit the Top Rail onto the top edge of the glass. Leave a 1/16" (1.5mm) gap between the end of the glass and the bottom to the "U" shape.
2. Mask off both sides of the Top Rail and the glass.
3. Remove the Top Rail and apply a bead of 33S Clear Silicone to the bottom of the "U" shape, as well as applying sealant to the inside walls of the Top Rail.
4. Slip the Top Rail onto the glass and carefully tap the rail into place, being careful not to hit the roller fin directly.
5. Remove the masking tape that is on the glass immediately. Leave the tape on the Top Rail, as not to jostle the Top Rail out of place.

Installation Instructions:

1. Place the Bottom Track in the desired position on the tub/curb. Use a level to plumb your Side Jamb. Mark the holes for drilling.
2. Drill the holes into the vertical walls. Use the appropriate anchors to prepare for fastening the Side Jamb.
3. Run a bead of 33S Clear Silicone to the underside of the Bottom Track. Immediately put the track into position.
4. Fasten the Side Jamb into the vertical walls using the screws provided. Be sure to clean up any excess silicone at this time.
5. Install the Header and fasten it to the Side Jamb on the inside.
6. Hang the panels (the inside panel is hung first). Make the necessary adjustments to accommodate for out-of-level/plumb conditions.
7. Attach the single-sided knob to the inside panel and the single-sided towel bar to the outside panel.
8. Run a bead of 33S Clear Silicone inside and out, along the Side Jamb and Bottom Track, at the walls and curb. Also, run a bead of 33S Clear Silicone at each end of the Bottom Track where it meets the jamb.
9. Allow 24 hours for the silicone to cure prior to using the enclosure.

Frameless Hinge KD Door Kit for 1/4" (6mm) Glass

This information applies to Cat. No.'s HDK64 and HDK72



Prior to the actual installation, there are several steps that must be completed.

Assembly Instructions:

1. Attach the jamb with the hinges to the glass. Adjust the hinge in a way that the overall width of the hinge and jamb combination is 3/8" (10mm) less than the door opening width.

Installation Instructions:

1. Stand the door in the opening. Be sure that you have the 3/8" (10mm) clearance at the strike side that was mentioned above.
2. Mark the holes in the hinge side jamb for drilling.
3. After drilling the holes, either use the provided plastic screw anchors (making sure that the substrate that is being screwed into is structurally secure), or screw directly into a stud.
4. **Caution: Using a short shank screwdriver could damage the glass or screw heads. Use a long shank screwdriver tip (Cat. No. 492A).**
5. Fasten the hinge jamb to the wall.
6. Align the strike jamb to the door and mark the holes in the jamb for drilling. Fasten the strike jamb into place.
7. Cut the drip rail (cutting it at the hinge side) 1/8" (3mm) less than the actual door glass size. Slip the drip rail on the bottom of the door.
8. Align the handle on the strike side of the door to match the strike plate on the jamb.
9. Run a bead of 33S Clear Silicone Sealant inside and out.

3-35A

Installation Instructions - Standard Hinge Kit for 3/8" (10mm) Glass Heavy Duty Hinge Kit for 3/8" (10mm), or 1/2" (12mm) Glass



This Information Applies to Cat. Nos. GEN033, P1N033 and V1E033

KITS CONSISTS OF:

Aluminum Jamb with Two Hinges Attached (plus Vinyl)
Aluminum Strike Jamb (with Vinyl)
Clear Vinyl Bottom Sweep with Drip Rail
Mounting Hardware

Installation Instructions:

- Step 1** Stand the hinge jamb with the hinges attached, in the desired opening location. Position the jamb vertically assuring it is perfectly plumb.
- Step 2** Mark the holes in the hinge jamb for drilling.
- Step 3** Take a measurement from the front side of the curb to the front side of the hinge jamb. Use this same dimension to locate the strike jamb on the opposite wall. Plumb the strike jamb, but only mark to bottom hole for drilling.
- Step 4** After drilling the holes, fasten the screws directly into the wood stud. If no wood stud is available, use appropriate screw anchors (not included) making sure that the substrate that is being screwed into is structurally secure.
- Step 5** Fasten the hinge jamb to the wall and mount the glass into the hinges. Use all the standard precautions when standing the glass in the opening, including setting block material.
- Step 6** Once the glass is firmly fastened into the hinge, remove the setting blocks from under the door.
- Step 7** Fasten the strike jamb through the one hole at the bottom, leaving the jamb free to move in and out.
- Step 8** Close the door until it hits at the bottom of the strike jamb. Align the balance of the jamb with the glass. Make a reference mark on the tile toward the top of the jamb.
- Step 9** Open the door out and mark the remaining holes in the strike jamb. Remove the strike jamb and drill the remaining holes.
- Step 10** Mount the strike jamb.
- Step 11** Cut the drip rail and attach the drip rail on the bottom of the door.
- Step 12** Run a bead of Clear Silicone Sealant inside and out.



C.R. Laurence Company has established a Technical Sales Department to assist our customers. If you have any questions concerning shower door hardware or any product from CRL, please contact us at:
(800) 421-6144 in the U.S.,
or **(877) 421-6144** from Canada,
and ask for Extension **7740**



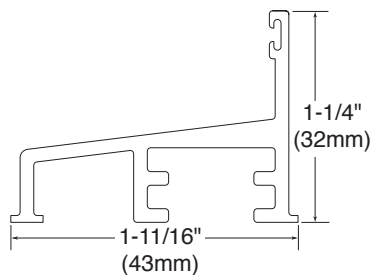
This information applies to Cottage - DK and CK Series Sliders

(Fabrication and Glass Sizing Information is shown in Section 2.)

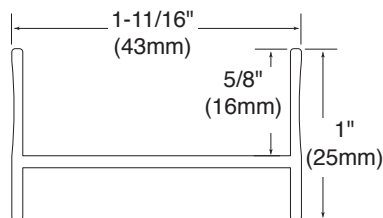
Assembly Instructions for Cottage - DK and CK Sliders:

1. Remove the nylon bushing in the roller bracket and place the bushing in the hole in the glass.
2. Slip the roller bracket over the top edge of the glass, aligning the hole in the bracket with the hole in the glass.
3. Fasten the clamping portion together and tighten the screw down snugly. **Important: There is no need to over-tighten the screw.**

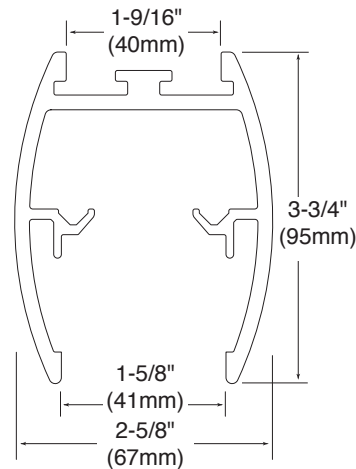
This roller bracket is designed to allow the glass to hang on the nylon bushing. There is no adhesive necessary for roller installation.



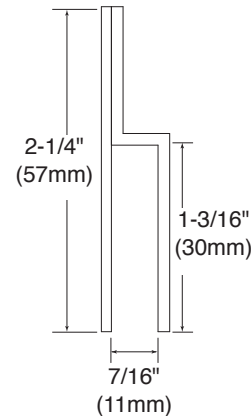
**Bottom Track for 3/8"
(10mm) or 1/4" (6mm) Glass**



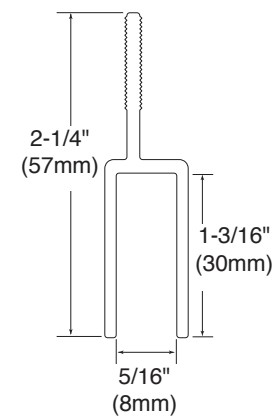
**Side Jamb for 3/8" (10mm)
or 1/4" (6mm) Glass**



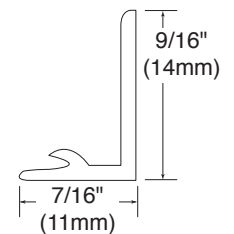
**Header for 3/8" (10mm)
Glass or 1/4" (6mm) Glass**



**Top Hanger for 3/8"
(10mm) Glass**



**Top Hanger for 1/4"
(6mm) Glass**



**Clear Jamb for 3/8" (10mm)
or 1/4" (6mm) Glass**



Installation Instructions for Cottage - DK Series Sliders:

1. Place the Bottom Track in the desired position on the tub/curb. Use a level to plumb your Side Jambs. Mark the holes for drilling.
2. Drill the holes into the vertical walls. Use the appropriate anchors to prepare for fastening the Side Jambs.
3. Run a bead of Clear Silicone to the underside of the Bottom Track. Immediately put the track into position.
4. Fasten the Side Jambs into the vertical walls using the screws provided. Be sure to clean up any excess silicone at this time.
5. Install the Header and fasten it to the Side Jambs it on the inside.
6. Hang the panels (the inside panel is hung first). Make the necessary adjustments to accommodate for out-of-level/plumb conditions.
7. Attach the single-sided knob to the inside panel and the single-sided towel bar to the outside panel.
8. Run a bead of Clear Silicone inside and out, along the Side Jambs and Bottom Track, at the walls and curb.
Also, run a bead of Clear Silicone at each end of the Bottom Track where it meets the Jambs.
9. Allow 24 hours for the silicone to cure prior to using the enclosure.

Installation Instructions for Cottage - CK Series Sliders:

1. Put the BWB2 Wall-mounting Bracket into the ends of the cut-to-size Header and tighten locking screws.
2. Place the Bottom Track into the desired position on the curb/tub.
3. Position the Header directly above the Bottom Track assuring the lines from the outside of the Bottom Track are plumb with the opening at the bottom of the Header.
4. Position the Header to the correct height and mark the vertical walls where the BWB2 Brackets will fasten the header to the wall.
5. It is important to make sure the two holes that are drilled to mount the Header to the wall are level to one another. If the holes are drilled incorrectly, the result will be a Header that is crooked on the wall.
6. Permanently fasten the Header to the walls.
7. Run a bead of silicone to the underside of the Bottom Track.
8. Hang the panels (the inside panel is hung first). Make the necessary adjustments to accommodate for out-of-plumb conditions.
9. Attach the single-sided knob to the inside panel and single-sided towel bar to the outside panel.
10. Carefully slide the doors to their closed position assuring the glass doesn't run into the vertical walls.
11. Position the center guide properly and mount it to the Bottom Track.
12. **It is wise to tape the Clear Jambs ahead of time, allowing time for the Very High Bond tape to adhere to the Clear Jamb.** To align the Clear Jambs on the vertical walls use the following method: With the Clear Jamb cut to size and pre-taped, close the door within 1/4" (6mm) of the vertical wall. Place the "L" shape of the Clear Jamb on the end of the sliding door, keeping the portion that is to be taped to the wall about 1/8" (3mm) away from the wall. Pull approximately 10" (254mm) of the release liner of the tape down and away from the Clear Jamb. Using the glass as a guide, slowly push the Clear Jamb onto the wall. Pull small amounts of release liner and continue to the bottom using the glass as a guide to assure a consistent line.
13. Run a bead of silicone where the Bottom Track rests on the curb/tub on the inside and outside.
14. Allow 24 hours for the silicone to cure prior to using the enclosure.

3-35E



Installation Instructions for Madrid Series

Hinges:

Soffit Mount

1. Lay out the parts you are going to use to mount the hinges. Locate the white plastic base plate. This plate has (3) protrusions projecting from the bottom.
2. It is important to position this white plastic plate properly, as the door's closing location will depend on the accuracy of this part of the installation. The center hole of the three should be located 3" (76mm) from the wall/fixed panel.
3. The holes on either side of the center hole are to be located 1-5/8" (41mm) from the center of the middle hole to the center of the flanking holes. A stick-on drilling template has been included to assure proper hole spacing.
4. Drill pilot holes 3/16" (5mm) in diameter, not to exceed 1/2" (12mm) in depth. Enlarge the holes to a final diameter of 1/2" (12mm). Do not drill into the shower liner!
5. Apply a small amount of silicone into the three holes prior to placing the white plastic plate into position. If the sill is steeply pitched, install the white plastic wedge with the matching three-hole pattern beneath the white plastic plate. Do not overfill the holes with silicone.
6. The ceiling mounted soffit sleeve is to be mounted directly above the center hole in the nylon base plate. Use a plumb-bob or laser level to locate the correct pivot point.
7. Drill a pilot hole using a 3/16" (5mm) diameter bit. Enlarge the hole for a final diameter of 9/16" (14mm).
8. Insert the stainless steel soffit sleeve. Run a # 10 stainless steel screw of appropriate length through the soffit sleeve, fastening the sleeve into place.
9. Place the bottom hinge into the open 90 degree position, positioning the 1/16" (1.5mm) setting block (provided) inside the bottom of the hinge. Do not set the glass directly into the hinge without the setting block as the glass could explode!
10. The top hinge requires a white nylon bushing to be placed on the pivot pin. This bushing goes into the soffit sleeve.
11. Holding the top hinge in position, slide the door glass in from the end of the hinges.
12. With the door glass placed in position, tighten down the set screws on the end of the hinges until the door is snug and won't move.

13. Close the door carefully to achieve the final adjustment. After the final adjustment is made, tighten the set screws on the end of the hinges.
14. It's important to remember that when the installation is complete, the white plastic base plate must be left in the exact desired location. The silicone that was used to mount the base plate is going to cure and the door's final closing position is established. Once the door is finally positioned, a tapered wood shim should be used to relieve the pressure between the hinge side of the door glass and the adjacent wall/fixed panel. Wedge a wood shim between the door and wall/fixed panel, until the silicone in the white plastic base cures, then remove the shim.

Header Mount

1. Lay out the parts you are going to use to mount the hinges. Locate the white plastic base plate. This plate has (3) protrusions projecting from the bottom.
2. It is important to position this white plastic plate properly, as the door's closing location will depend on the accuracy of this part of the installation. The center hole of the three should be located 3" (76mm) from the wall/fixed panel.
3. The holes on either side of the center hole are to be located 1-5/8" (41mm) from the center of the middle hole to the center of the flanking holes. A stick-on drilling template has been included to assure proper hole spacing.
4. Drill pilot holes 3/16" (5mm) in diameter, not to exceed 1/2" (12mm) in depth. Enlarge the holes to a final diameter of 1/2" (12mm). Do not drill into the shower liner!
5. Apply a small amount of silicone into the three holes prior to placing the white plastic plate into position. If the sill is steeply pitched, install the white plastic wedge with the matching three-hole pattern beneath the white plastic plate. Do not overfill the holes with silicone.
6. At this point of the installation, the header should be permanently mounted. The large center hole in the header pivot receiver is to be positioned directly above the center hole in the nylon base plate. Use a plumb-bob or laser level to locate the correct pivot point.
7. Position the header pivot receiver in place and mark the holes on either side of the large center hole. Drill a 3/16" (5mm) hole through the cross-webbing of the header.



Installation Instructions for Madrid Series Hinges (Cont.)

8. Take the machine screws provided and, from the bottom, fasten the header mount block through the header. On the top of the header, use the two locking nuts provided to permanently fasten the header mount block in place.
9. Place the bottom hinge into the open 90 degree position, positioning the 1/16" (1.5mm) setting block (provided) inside the bottom of the hinge. Do not set the glass directly into the hinge without the setting block as the glass could explode!
10. The top hinge requires a white nylon bushing to be placed on the pivot pin. This bushing goes into the header pivot receiver.
11. Holding the top hinge in position, slide the door glass in from the end of the hinges.
12. With the door glass placed in position, tighten down the set screws on the end of the hinges until the door is snug and won't move.
13. Close the door carefully to achieve the final adjustment. After the final adjustment is made, tighten the set screws on the end of the hinges.
14. It's important to remember that when the installation is complete, the white plastic base plate must be left in the exact desired location. The silicone that was used to mount the base plate is going to cure and the door's final closing position is established. Once the door is finally positioned, a tapered wood shim should be used to relieve the pressure between the hinge side of the door glass and the adjacent wall/fixed panel. Wedge a wood shim between the door and wall/fixed panel, until the silicone in the white plastic base cures, then remove the shim.
5. Apply a small amount of silicone into the three holes prior to placing the white plastic plate into position. If the sill is steeply pitched, install the white plastic wedge with the matching three-hole pattern beneath the white plastic plate. Do not overfill the holes with silicone.
6. To place the wall mount block in the correct position on the wall, make a mark on the curb next to the vertical wall the same distance in from the front of the curb as was used in locating the center hole for the nylon base plate.
7. From the mark made next to the wall, use a level to find the centerline of the wall bracket that fastens the wall mount block to the wall.
8. Position the wall bracket so the center slot is in alignment with the above-mentioned centerline. Make the center of the slot at a height of 1-1/4" (32mm) higher than the door glass height. For example: If the door glass height is 79" (2006mm), the center hole for the wall bracket will be at a height of 80-1/4" (2038 mm).
9. Mark the adjacent holes on the wall bracket, assuring the bottom of the bracket is level. Misaligning the wall bracket will result in a wall mount block that is crooked and may not function properly.
10. Place the bottom hinge into the open 90 degree position, positioning the 1/16" (1.5mm) setting block (provided) inside the bottom of the hinge. Do not set the glass directly into the hinge without the setting block as the glass could explode!
11. The top hinge requires a white nylon bushing to be placed on the pivot pin. This bushing goes into the wall mount block.

Wall Mount Block

1. Lay out the parts you are going to use to mount the hinges. Locate the white plastic base plate. This plate has (3) protrusions projecting from the bottom.
2. It is important to position this white plastic plate properly, as the door's closing location will depend on the accuracy of this part of the installation. The center hole of the three should be located 3" (76mm) from the wall/fixed panel.
3. The holes on either side of the center hole are to be located 1-5/8" (41mm) from the center of the middle hole to the center of the flanking holes. A stick-on drilling template has been included to assure proper hole spacing.
4. Drill pilot holes 3/16" (5mm) in diameter, not to exceed 1/2" (12mm) in depth. Enlarge the holes to a final diameter of 1/2" (12mm). Do not drill into the shower liner!
12. Holding the top hinge in position, slide the door glass in from the end of the hinges.
13. With the door glass placed in position, tighten down the set screws on the end of the hinges until the door is snug and won't move.
14. Close the door carefully to achieve the final adjustment. After the final adjustment is made, tighten the set screws on the end of the hinges.
15. It's important to remember that when the installation is complete, the white plastic base plate must be left in the exact desired location. The silicone that was used to mount the base plate is going to cure and the door's final closing position is established. Once the door is finally positioned, a tapered wood shim should be used to relieve the pressure between the hinge side of the door glass and the adjacent wall/fixed panel. Wedge a wood shim between the door and wall/fixed panel, until the silicone in the white plastic base cures, then remove the shim.

Installation Instructions for Two-Point Ceiling Mount Vertical Post Kit (Cat. No. VPK33)

(For Behind-the-Glass Mounting)

Stock Kit Includes:

- 1 Each – 33" (838 mm) length of 2" (51 mm) diameter Round Tubing, two Rivet Nuts, and Flat Style End Cap**
- 2 Each – Tube Adapters with 1-1/2" (38 mm) diameter End Caps (with Threaded Stud)**
- 1 Each – Removable Top Flange with Set Screw**

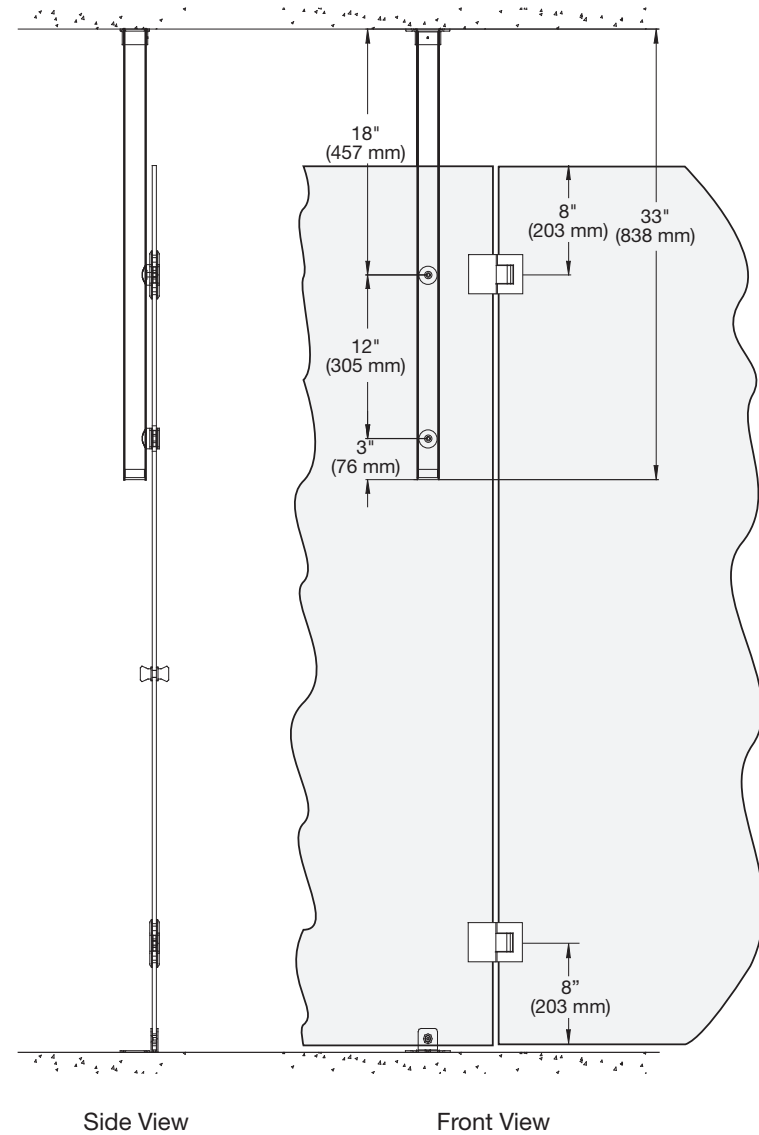
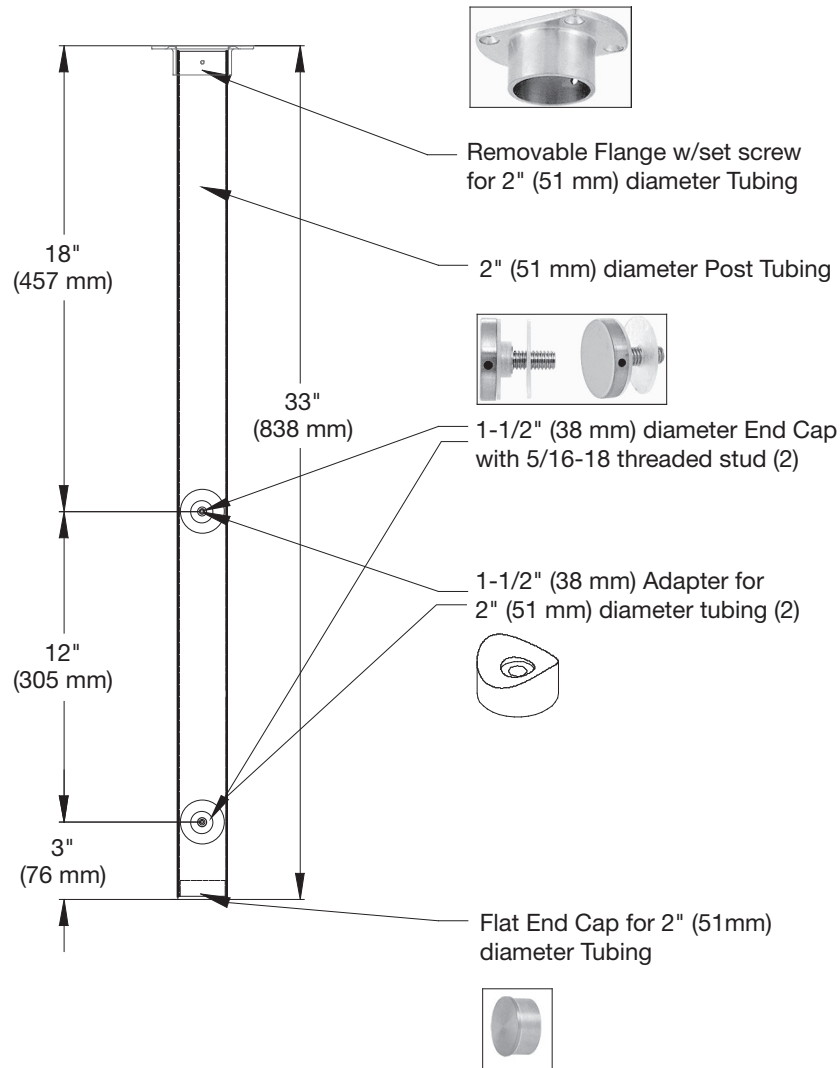
- 1) Permanently install the fixed panel of glass that will accommodate the Vertical Post.
- 2) Measure from the center of the top hole in the glass where the Post is to be mounted to the ceiling.
- 3) Using this dimension, deduct 1/4" (6 mm). This will be your "cut-size". Do not cut Post yet.
- 4) Remove the Standoff Caps from the Two-Point Vertical Post.
- 5) Measuring from the center of the hole in the top Standoff Base, use your "cut-size" dimension (from Step 3 above) to cut the Post to the correct dimension.
- 6) Slide the removable flange over the cut end of the Post.
- 7) Position the cut-to-size Post in place, aligning with the holes in the glass.
- 8) Screw the Standoff Caps through the glass and finger-tighten them to the Post.
- 9) Using a level, align the Post to the desired location.
- 10) Slide the top flange to the ceiling and mark the holes for drilling.
- 11) Remove the Standoff Caps and set the Post aside.
- 12) Drill the holes in the ceiling. Permanently fasten the top flange to the ceiling.
- 13) Slide the Post into the top flange and permanently fasten the Standoff Caps.
Tighten the set-screw in the top flange into the Post.

NOTE: There are size limitations when hinging a door off a panel fastened using the VPK33. Call our Frameless Shower Department for details.

For Additional Details, see next page

Installation Instructions for Two-Point Ceiling Mount Vertical Post Kit (Cat. No. VPK33)

Cat. No. VPK33 Parts Breakdown



Installation Instructions for Floor-to-Ceiling Mount Vertical Post Kit (Cat. No. VPK92)

(For Behind-the-Glass Mounting)

Stock Kit Includes:

- 1 Each – 92" (2.34 m) length of 2" (51 mm) diameter Round Tubing with welded Bottom Flange and two Rivet Nuts**
- 2 Each – Tube Adapters with 1-1/2" (38 mm) diameter End Caps (with Threaded Stud)**
- 1 Each – Removable Top Flange with Set Screw**

NOTE: Stock Kit is prepared for one degree floor slope to the inside of the shower. Shimming is required if floor is not a one degree slope to the inside of the shower, or a Custom Kit may be ordered instead.

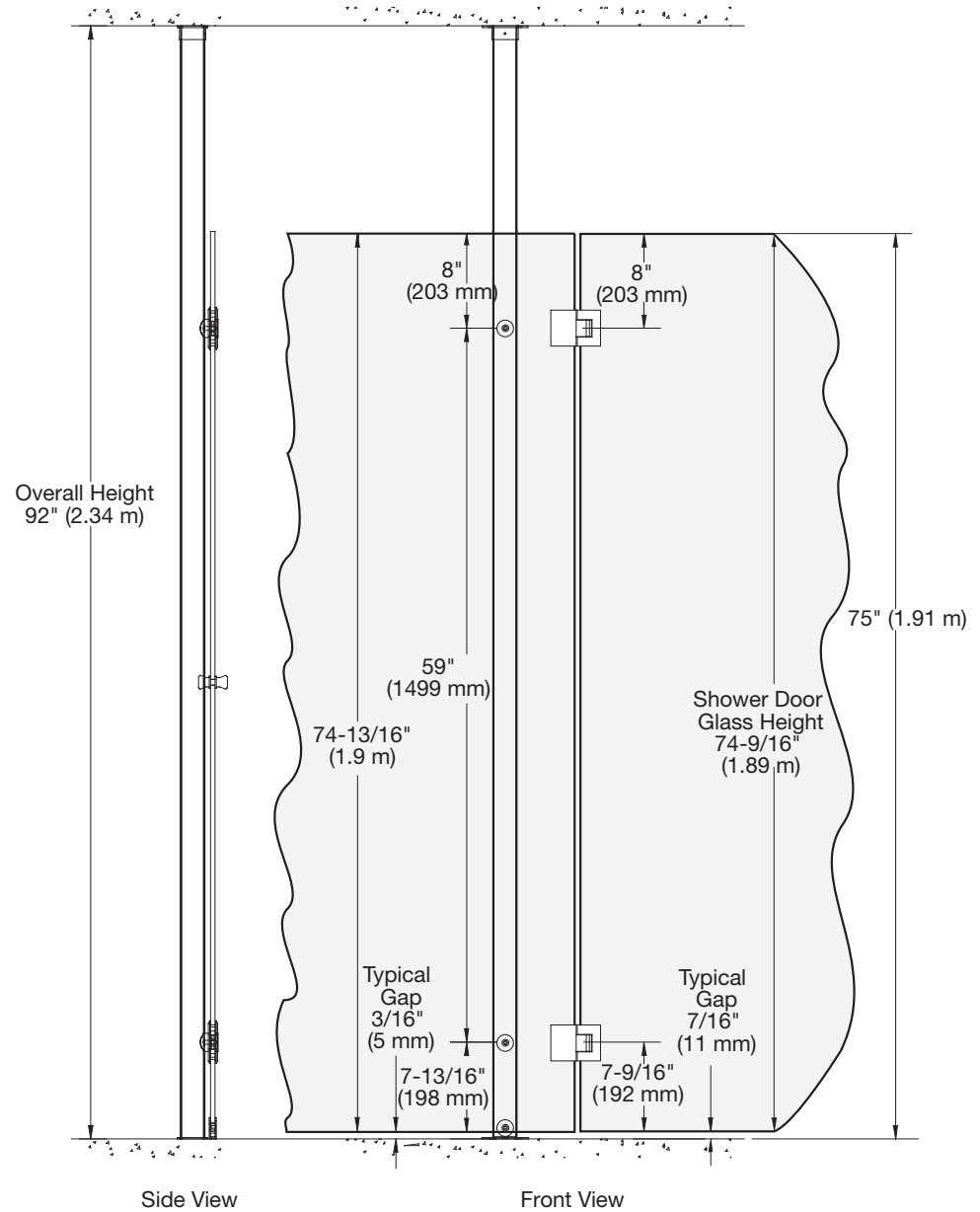
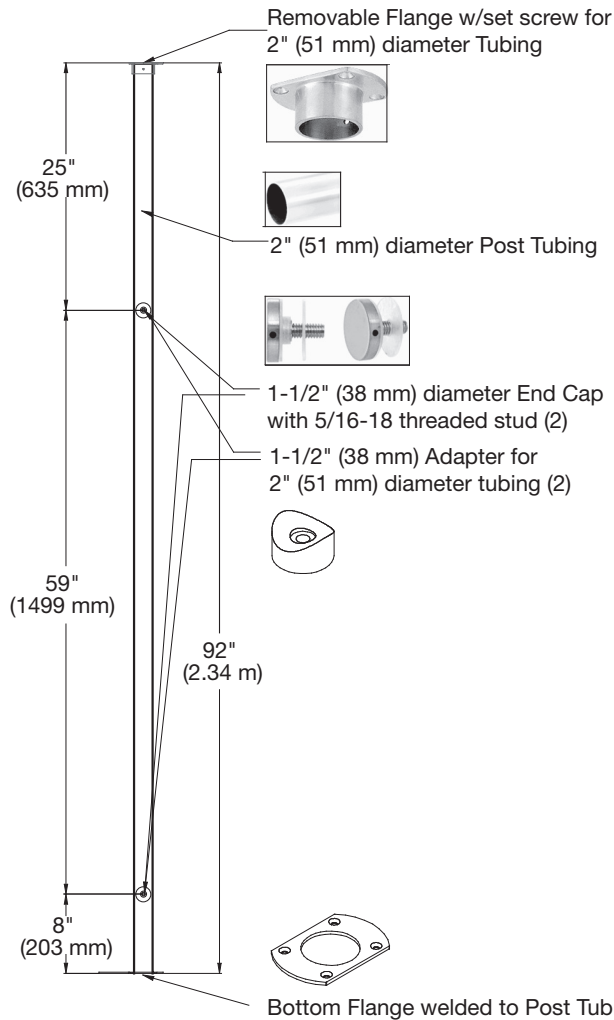
- 1) Temporarily install the fixed panel of glass that will accommodate the Vertical Post.
- 2) Measure from floor to ceiling, at the point where the Post is going to be fastened.
- 3) Using this tight floor-to-ceiling dimension, deduct 1/4" (6 mm) to determine your "cut-size". Cut the Post to size, cutting at the top of the Post. The "top" of the Post is easy to identify, as it has no flange. The "bottom" of the Post has a flange permanently attached.
- 4) Prior to positioning the Post to the fixed panel, remove the Standoff Caps from the Post and slide the removable top flange over the cut end of the Post.
- 5) Position the cut-to-size Post in place, aligning with the holes in the glass.
- 6) Screw the Standoff Caps through the glass and finger-tighten them to the Vertical Post.
- 7) Using a level, align the Post to the desired location.
- 8) Mark the holes in the bottom flange for drilling into the floor. Slide the top flange to the ceiling and mark the holes for drilling.
- 9) Remove the Standoff Caps and set the Post aside.
- 10) Given the location of the holes to be drilled in the floor, the fixed panel of glass may be removed to allow more room to drill.
- 11) Drill both the bottom and top holes for fastening the mounting flanges.
- 12) If the fixed panel was removed to drill, permanently position it back into place.
- 13) Position the Vertical Post into place and fasten both the top and bottom flanges. Permanently fasten the Standoff Caps. Tighten the set-screw in the top flange into the Post.

For Additional Details, see next page

3-35J

Installation Instructions for Floor-to-Ceiling Mount Vertical Post Kit (Cat. No. VPK92)

Cat. No. VPK92 Parts Breakdown



3-35K

Assembly Instructions for 180° Hydroslide Shower Doors:

IMPORTANT NOTE:

Refer to 90° Instructions if enclosure has a 90° angle. Do not use these 180° Instructions.

1. Determine the location of the fixed panel on the curb. As a guideline, when no vertical fastener is used a 1/8" (3mm) clearance is recommended.
2. Fasten the fixed panel to the curb, using pre-determined choice of clamps or u-channel.
3. Cut the Sliding Shower Door Upper Track 1/16" (1.5 mm) shorter than the wall-to-wall tight dimension where the track is to be mounted.
4. On the fixed panel, measure from the edge of the glass that butts the wall, to the center of the holes in the fixed panel of glass at the top. Determine the correct location to set the connectors into the Sliding Shower Door Upper Track (see step 5).
5. Using the distance to the holes in the fixed panel glass, add the pre-determined clearance allotted between the fixed glass and the vertical wall the fixed panel butts. These figures will determine exactly where the holes will be located in the Sliding Shower Door Upper Track. For example: If the center of the hole at the top of the glass is located 6" (152 mm) in from the wall-butting edge, and a clearance between the glass and the wall has been set at 1/8" (3 mm), the hole location for the connector would be set at 6-1/8" (155 mm) in from the end of the Sliding Shower Door Upper Track.
6. Measure from the end of the Sliding Shower Door Upper Track to mark where the holes for the connectors are to be drilled.
7. Using the Drilling Guide and Drill Bit provided, drill clearance holes in the Sliding Shower Door Upper Track (see Figure 1).
8. Slide the connecting nut into the race in the interior of the Sliding Shower Door Upper Track, and align to the clearance hole (see Figure 2).
9. Fasten the connector to the Sliding Shower Door Upper Track snugly, using the stud provided.
10. To determine the correct location for the Wall to Upper Track "L" shaped brackets, first establish where the center of the sliding panel will close. The sliding panel is centered within the Sliding Shower Door Upper Track. It is important to note the distance between the sliding panel and the fixed panel. Between the two pieces of glass there is a 1 3/16" (21 mm) gap. So, if 3/8" (10 mm) glass were being used, from the centerline of the sliding panel to the centerline of the fixed panel the distance is 1-3/16" (30 mm). Use this information to locate the Wall to Upper Track "L" shaped brackets. The highest part of this kit is the fixed panel, which is 1/2" (12 mm) higher than the top of the Sliding Shower Door Upper Track. From the top of the fixed panel down to the center of the hole drilled in the wall, the dimension is 1-5/8" (41 mm). Therefore, from the top of the Sliding Shower Door Upper Track to the center of the hole for the Wall to Upper Track brackets is 1-1/8" (29 mm) (see diagram on next page).
11. At this time the Roller Stops and Glass Hangers will be inserted into the Upper Track. Insert one of the Roller Stops into the end of the Upper Track. Next, insert both of the Glass Hangers into the end of the Upper Track with the clamping screws facing into the shower. Lastly, insert the second Roller Stop into the same end of the Upper Track. The end result should be: Roller Stop, Glass Hanger, Glass Hanger and Roller Stop.
12. The Sliding Shower Door Upper Track is now to be mounted into place. Slip the Upper Track over the top of the "L" brackets.
13. Using the screws provided, permanently fasten the Upper Track to the "L" brackets.
14. Mount the fixed panel on the curb and position the holes at the top of the panel into the connectors.
15. With the plastic washers in place, permanently tighten down the blind fasteners through the holes in the glass.
16. Fasten the bottom guide to the curb.
17. Position the sliding door in the opening by setting the sliding door on tapered wood shims.
18. Roll the Glass Hangers into alignment with the holes at the top of the sliding door glass.
19. Once the door is adjusted to the correct location insert the correct size white nylon spacer to surround the Allen screw. Use the thickest spacer that will fit in the hole and still allow the screw to pass through the hole in the middle of the spacer. The spacer is used to assure the door will maintain the correct positioning. Tighten the Glass Hangers permanently to the glass.
20. Remove the wood shims from under the sliding door.
21. To limit the sliding range of the door and assure safe usage, place the Roller Stops in the header using screws provided.
22. Install Knobs, Handles, or Towel Bars that you may be using.
23. Apply DK98L ("L" shaped vinyl) on the wall, using double-sided clear VHB tape. The vinyl should be positioned so that the door slides into the small "nub" that protrudes from the surface of the vinyl. This will help act as a bumper.
24. An optional piece of Threshold (included in kit) may also be installed at this time. It is simply siliconed to the floor under the sliding portion of the door.
25. Test the unit by sliding the door back and forth to make sure the Roller Stops are in the correct position.

Figure 1

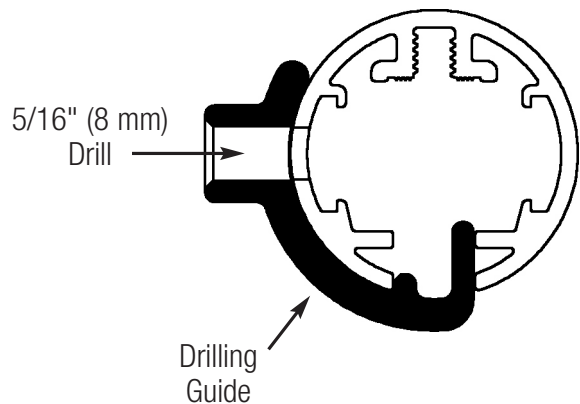
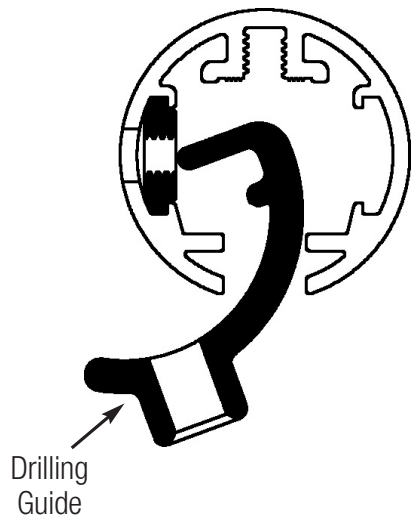


Figure 2



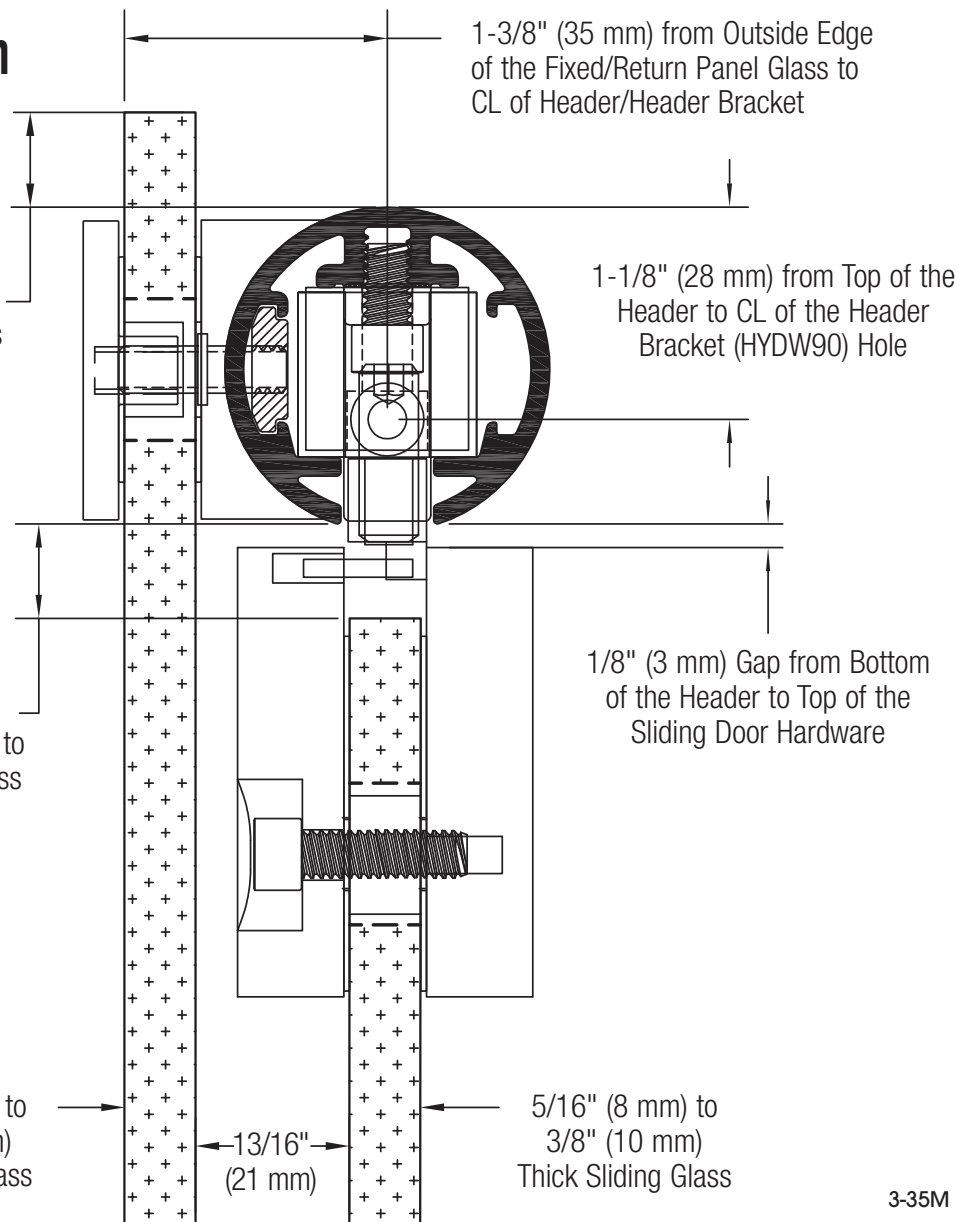
Cross Section Diagram

(See step 10 on previous page)

1/2" (12 mm) from Top of the Fixed Glass to Top of the Header

1/2" (12 mm) from Bottom of the Header to Top of the Sliding Glass

5/16" (8 mm) to 3/8" (10 mm) Thick Fixed Glass



3-35M

Assembly Instructions for 90° Hydroslide Shower Doors:

1. Determine the location of the fixed panels on the curb/knee wall. As a guideline, when no vertical fastener is used against the wall a 1/8" (3 mm) clearance is recommended.
2. Locate the HYD05 Wall-to-Glass Bracket on the vertical wall the 90 degree return panel butts. Fasten the HYD05 Wall-to-Glass Bracket to the vertical wall the 90 degree return panel butts. Fasten the fixed panels to the curb/knee wall using the pre-determined choice of clamps or U-channel.
3. Cut the Sliding Shower Door Upper Track 5/8" (16 mm) shorter than the dimension from the wall to the outside of the 90 degree return panel, where the track is to be mounted.
4. On the fixed panel that mounts to the header, measure from the edge of the glass that butts into the return panel to the center of the holes in the fixed panel of glass at the top. Determine the correct location to set the connectors into the Sliding Shower Door Upper Track.
5. Using the location to the center of the holes in the fixed panel glass, add the pre-determined silicone clearance allotted between the fixed glass and the return panel the fixed panel butts. These figures will determine exactly where the holes will be located in the Sliding Shower Door Upper Track. For example: If the center of the hole at the top of the glass is located 6" (152 mm) in from the return panel-butting edge and a clearance between the glass and the return panel has been set at 1/16" (1.5 mm), the hole location for the connector would be set at 6 1/16" (154 mm) in from the end of the Sliding Shower Door Upper Track.
6. Measure from the end of the Sliding Shower Door Upper Track to mark where the holes for the connectors are to be drilled.
7. Using the Drilling Guide and drill bit provided, drill clearance holes in the Sliding Shower Door Upper Track. (See figure 1)
8. Slide the connecting nut into the race in the interior of the Sliding Shower Door Upper Track, and align to the clearance hole. Use the Drilling Guide to assist in aligning the connecting nut. (See figure 2)
9. Fasten the connector to the Sliding Shower Door Upper Track snugly using the stud provided.
10. To determine the correct location for the Wall to Upper Track "L" shaped Bracket, first establish where the center of the sliding panel will close. The sliding panel is centered in the Sliding Shower Door Upper Track. It is important to note the distance between the sliding panel and the inline fixed panel. Between the two pieces of glass there is a 13/16" (21 mm) gap. So, if 3/8" (10 mm) glass were being used, from the centerline of the sliding panel to the centerline of the inline fixed panel the distance is 1-3/16" (30 mm). Use this information to locate the Wall to Upper Track "L" shaped Bracket. The highest part of this kit is the fixed panel, which is 1/2" (12 mm) higher than the top of the Sliding Shower Door Upper Track. From the top of the fixed panel down to the center of the hole drilled in the wall, the dimension is 1-5/8" (41 mm). Therefore, from the top of the Sliding Shower Door Upper Track to the center of the hole for the Wall to Upper Track Bracket is 1-1/8" (28 mm) (see diagram on next page). To mount the 90 Degree Glass-to-Sliding Track Connector, simply place the outside mounted fastener with the stud through the hole in the return panel, assuring there is a gasket to buffer the glass to metal. From inside the shower, fasten the disc-shape with the tab to the top using the screw provided. Tighten the screw securely.
11. At this time the Roller Stops and Glass Hangers will be inserted into the Upper Track. Insert one of the Roller Stops into the end of the Upper Track. Next, insert both of the Glass Hangers into the Upper Track with the clamping screws facing into the shower. Lastly, insert the second Roller Stop into the same end of the Upper Track. The end result should be: Roller Stop, Glass Hanger, Glass Hanger and Roller Stop.
12. The Sliding Shower Door Upper Track is now to be mounted into place. Slip the Upper Track over the top of the "L" Brackets.
13. Using the screws provided, permanently fasten the Upper Track to the "L" Brackets. Use caution not to over-tighten, as it's possible to strip the screw race in the header.
14. Mount the fixed panel into the curb and position the holes at the top of the panel into the connectors.
15. With the plastic washers in place, permanently tighten down the blind fasteners through the hole in the glass.
16. Fasten the bottom guide to the curb.
17. Position the sliding door in the opening by setting the sliding door on tapered wood shims.
18. Roll the Glass Hangers into alignment with the holes at the top of the sliding door glass.
19. Once the door is adjusted to the correct location, insert the correct size white nylon spacer to surround the Allen screw. Use the thickest spacer that will fit in the hole and still allow the screw to pass through the hole in the middle of the spacer. The spacer is used to assure the door will maintain the correct positioning. Tighten the Glass Hangers permanently to the glass.
20. Remove the wood shims from under the sliding door. To limit the sliding range of the door and assure safe usage, position the Roller Stops in the header using the screws provided.
21. Install Knobs, Handles, or Towel Bars that you may be using.
22. Apply DK98L ("L" shaped vinyl) on the wall to which the sliding door closes, or to the 90 degree return fixed panel, using double-sided clear VHB tape. The vinyl should be positioned so that the door slides into the small "nub" that protrudes from the surface of the vinyl. This will help act as a bumper.
23. An optional piece of Threshold (included in kit) may also be installed at this time. It is simply siliconed to the floor under the sliding portion of the door.
24. Test the unit by sliding the door back and forth to make sure the Roller Stops are in the correct position.

IMPORTANT NOTE: If installing a Hydroslide unit with a 90 degree return panel, use **ONLY** these instructions. Do not use the Installation Instructions included in the 180 Degree Standard Kit (HYDK60 or HYDK84).

Figure 1

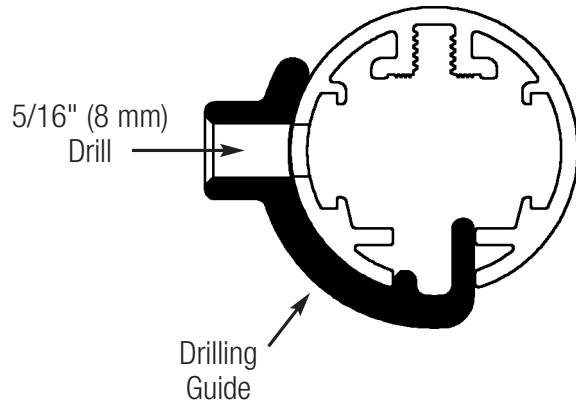
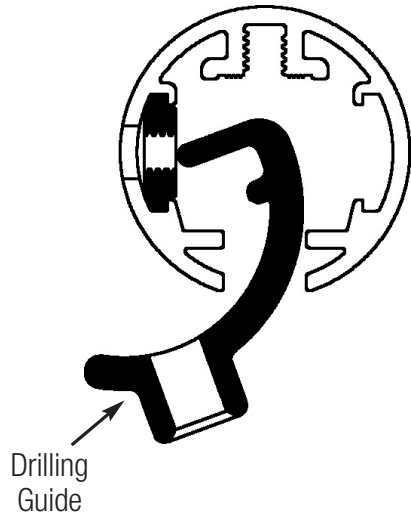


Figure 2



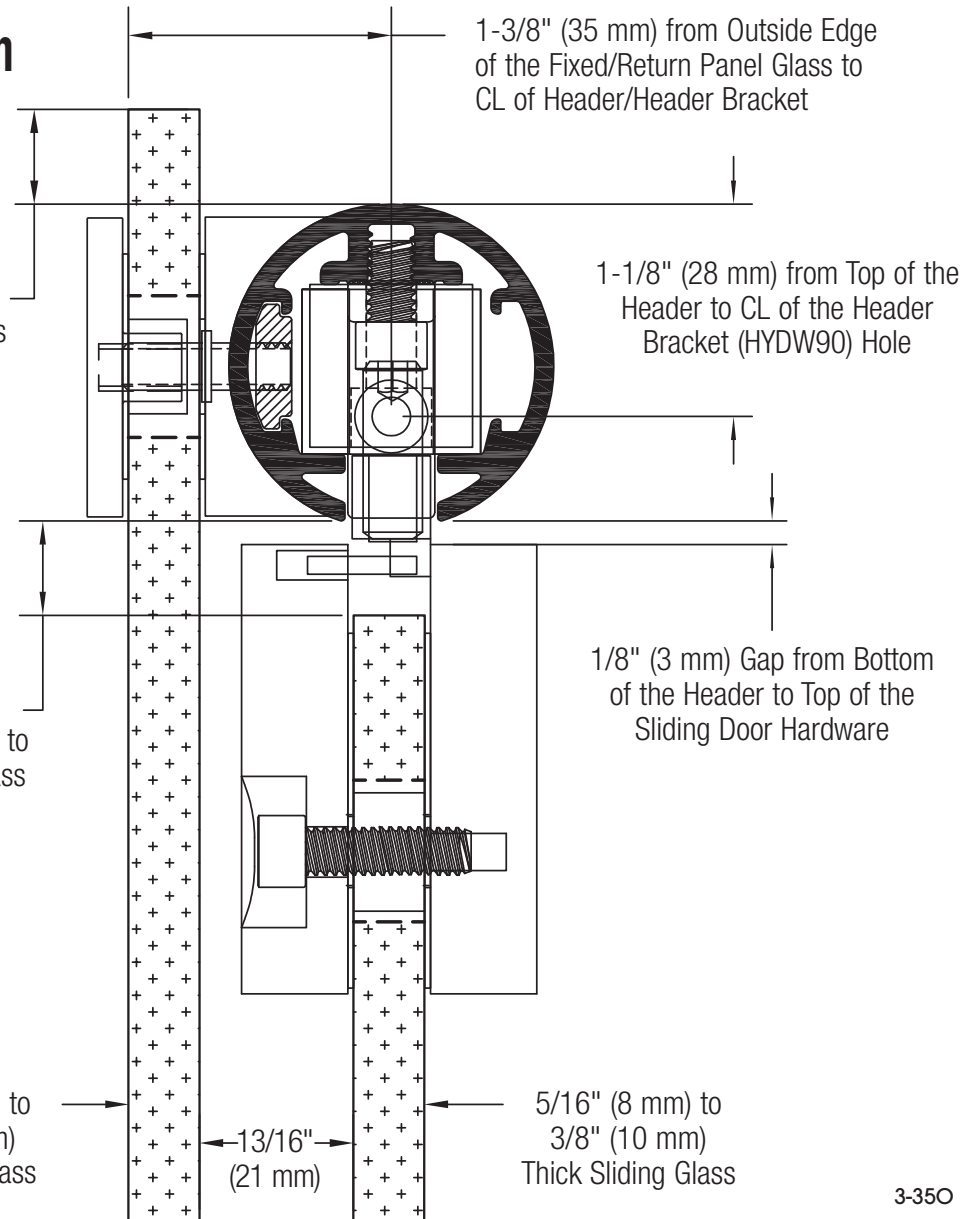
Cross Section Diagram

(See step 10 on previous page)

1/2" (12 mm) from Top of the Fixed Glass to Top of the Header

1/2" (12 mm) from Bottom of the Header to Top of the Sliding Glass

5/16" (8 mm) to 3/8" (10 mm) Thick Fixed Glass



3-350

After the Installation - Leaving a Satisfied Customer

When the installation has been completed, it is not time to relax yet. There are several steps that should be taken to ensure you will be leaving a satisfied customer.

- Clean up thoroughly. Leave the bathroom cleaner than when you arrived.
- Leave written instructions, or verbalize, how the customer can care for their new enclosure:

Do not use harsh cleansers around the hardware. An abrasive cleanser can damage the finish of the hardware. Ivory Soap is a nice mild cleanser.

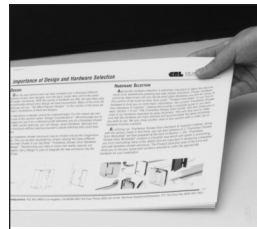
CRL TPC Spray (Cat.No. TPC16) is an excellent preventive surface coating that can be applied to the glass. It guards against the adhesion and build-up of dirt, grime and mineral deposits, and eliminates water spots.

Advise them how a Vaseline or Super Lube type product, when applied to vinyl seals, provides quieter and smoother door operation.

- Leave a complimentary squeegee from our line of Cleret Elite Squeegees. A simple and relatively inexpensive gesture such as this is a nice business touch. A can of our CRL18X Glass Cleaner will also be nice.
- Leave a business card. When visitors or neighbors see the fine work you have done, your company name will be at hand for referral.
- Have a camera, film, pretty towels and flowers available. With the customer's permission, take a few photographs. This will allow you to build a portfolio of jobs you have done to assist in selling future jobs. The customer may also be flattered to know their bathroom photograph may appear in a catalog such as C.R.Laurence's.



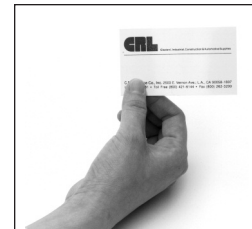
Clean the Enclosure



Leave Instructions



Leave a Gift



Leave Business Card

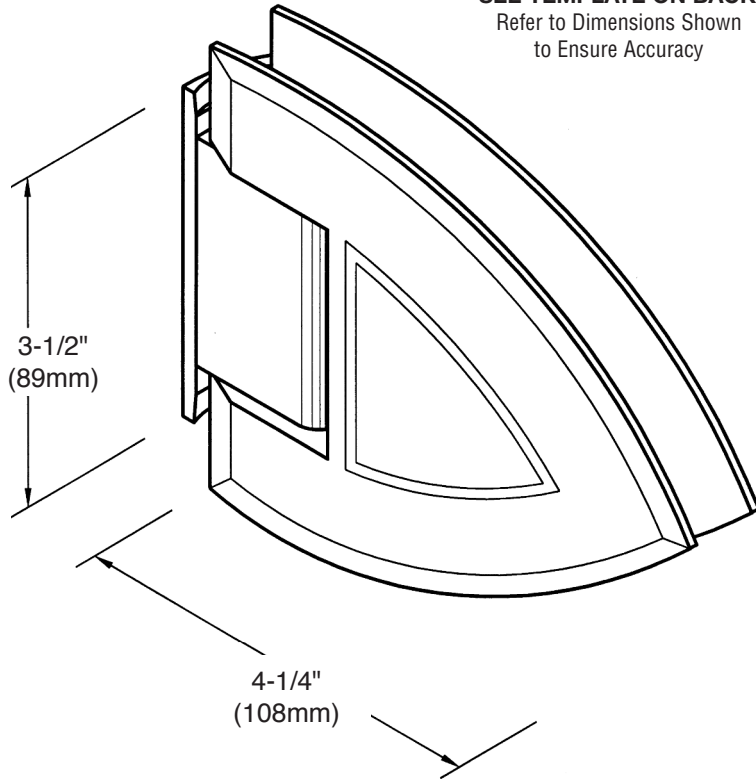


Add Accessories and Take Photo



C.R. LAURENCE CO., INC.
PROFESSIONAL QUALITY

*** SEE TEMPLATE ON BACK ***
 Refer to Dimensions Shown
 to Ensure Accuracy



Important Information:

This hinge contains a dual degree pivot pin. The pivot pin is set for normal door closing position. You have the option of altering the closing position of the door 5 degrees inward by utilizing the opposite side of the pivot pin, which has been pre-machined (see Section 3 of Cat. No. SDT20 Frameless Shower Door Guide for this procedure). Special order custom pivot pins are available (Cat.No. GENP1N) that can be machined at any angle up to 45 degrees.

Specifications:

Glass Sizes: 3/8" (10mm) to 1/2" (12mm) thick tempered safety glass

Construction: Solid brass

Closing Type: Self-centering when within 15° of closed position

Cutout and Hole Required

Includes: Gaskets, screws and template

Use of Gaskets:

For 3/8"(10mm) Glass: Use one thick gasket on each side

For 1/2"(12mm) Glass: Use one thin gasket on each side

Recommendations:

For public safety, we recommend the use of only tempered safety glass.
 Do not use power tools when installing these hinges.

Maintenance Guidelines:

- Our hinges are greased at the factory for quiet and trouble-free operation. If there is any squeaking that occurs after installation, put a drop of "3 in 1 Oil" (also known as "household oil") on the white nylon washer that the hinge body pivots on. This washer is the component that acts as a buffer, so the body of the hinge doesn't pivot directly on the brass center block. This solution doesn't require the disassembly of the hinge.
Note: Do not use spray lubricant on these hinges. If the hinge has been disassembled, upon re-assembly, use white lithium grease to lubricate the interior mechanism.
- Never use an abrasive cleaner on the hardware. Many of the components are coated with a clear lacquer that will be irreparably damaged if subjected to harsh, abrasive chemicals. Advise your customer that drying the hardware with a clean, soft towel on a daily basis is the best way to maintain the hardware. If mineral deposits build-up, mix a couple of drops of a mild liquid soap (such as Ivory or a similar product) into a cup of warm water. Using a soft, non-abrasive cloth, clean the hardware. Rinse thoroughly with clean, warm water and dry.

CATHEDRAL

Wall Mount Hinge – Offset Back Plate

CAT No. CAT044

*Maximum Door Capacities	3/8" (10mm) Glass		1/2" (12mm) Glass	
	Weight	Width	Weight	Width
Using 2 Hinges	95 lbs.(43 kg)	34"(864mm)	95 lbs.(43 kg)	34"(864mm)
Using 3 Hinges	140 lbs.(64 kg)	38"(965mm)	140 lbs.(64 kg)	38"(965mm)

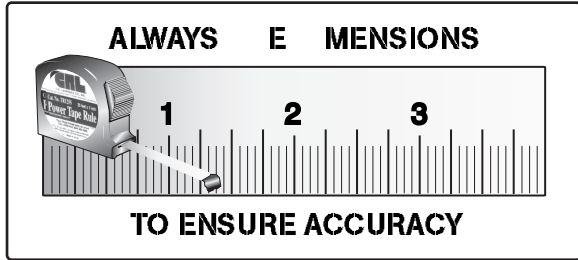
*NOTE: Do not exceed either maximum weight or width when choosing proper quantity of hinges.

C.R. Laurence Co., Inc. For technical assistance in the United States call toll free (800) 421-6144; from Canada call toll free (877) 421-6144;
 crlaurence.com Outside the U.S. and Canada call (323) 588-1281. Ask for Tech Sales at Extension 7740. Toll free fax (800) 458-7496.

© Copyright 2005, C.R. Laurence Co., Inc_SDT21_US



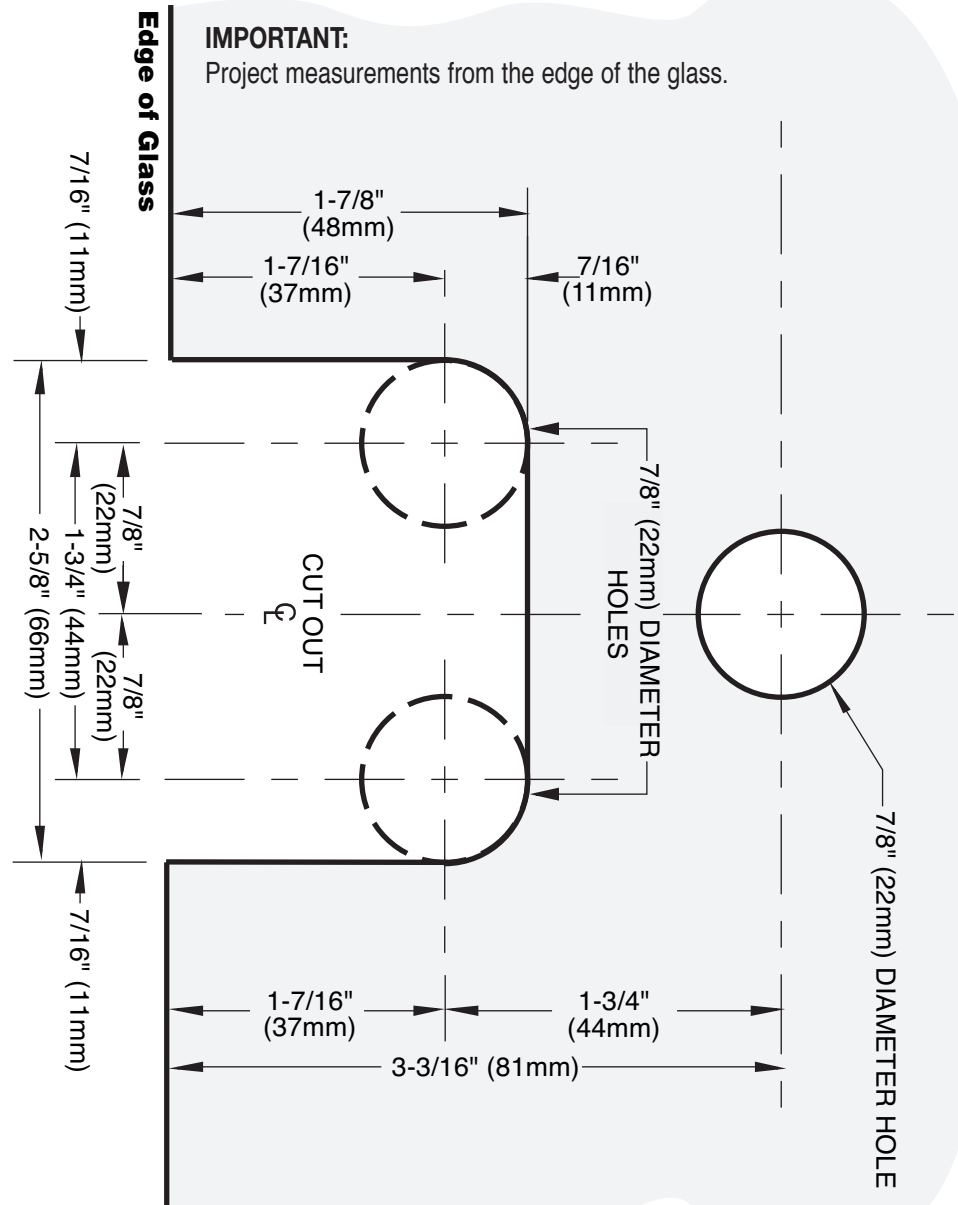
C.R. LAURENCE CO., INC.
PROFESSIONAL QUALITY



CATHEDRAL

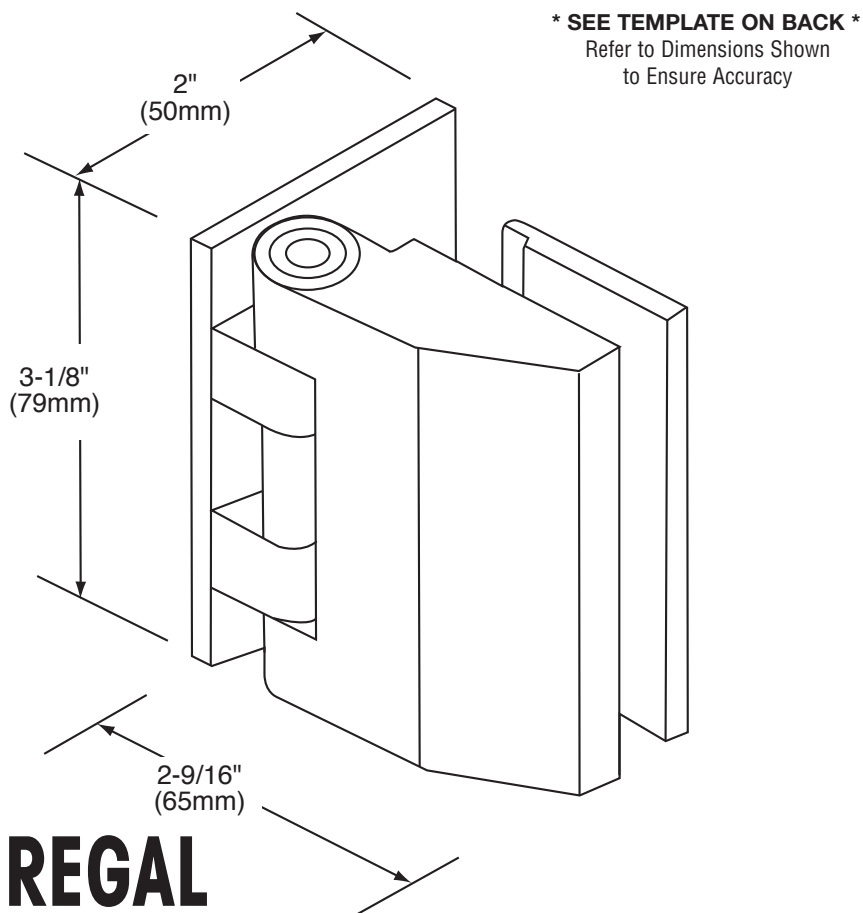
Wall Mount Hinge – Offset Back Plate

CAT No. CAT044





C.R. LAURENCE CO., INC.
PROFESSIONAL QUALITY



REGAL
Wall Mount Hinge
CAT. No. REG037

*Maximum Door Capacities	5/16" (8mm) Glass		3/8" (10mm) Glass	
	Weight	Width	Weight	Width
Using 2 Hinges	90 lbs.(41 kg)	30"(762mm)	90 lbs.(41 kg)	30"(762mm)
Using 3 Hinges	130 lbs.(59 kg)	34"(864mm)	130 lbs.(59 kg)	34"(864 mm)

*NOTE: Do not exceed either maximum weight or width when choosing proper quantity of hinges.

Important Information:

- 1). This is a one-direction hinge and is designed for an outswing application only.
A door strike is required so the door isn't allowed to swing inward and damage the door glass.
- 2). This hinge comes equipped with a self-centering mechanism that is fully adjustable. By loosening the Allen head screw that serves as part of the pivot barrel, the hinge's self-centering position can be altered. Simply loosen the Allen screw and swing the door to the desired position. Now tighten the Allen screw, and you have established a new-centering position.
- 3). Changing the angle alters the location of the holes to be drilled in the glass! Before fabricating the glass to any other angle than what's shown, consult with C.R. Laurence's Technical Sales Department:
In the United States call (800) 421-6144; from Canada call (877) 421-6144;
Outside the U.S. and Canada call (323) 588-1281. Ask for extension 777.

Specifications:

Glass Sizes: 5/16" (8mm) to 3/8" (10mm) thick tempered safety glass

Construction: Solid brass

Closing Type: Self-centering when within 15° of closed position

Two Holes Required

Includes: Gaskets, screws and template

Use of Gaskets:

For 5/16"(8mm) Glass: Use one thick gasket on each side

For 3/8"(10mm) Glass: Use one thin gasket on each side

Recommendations:

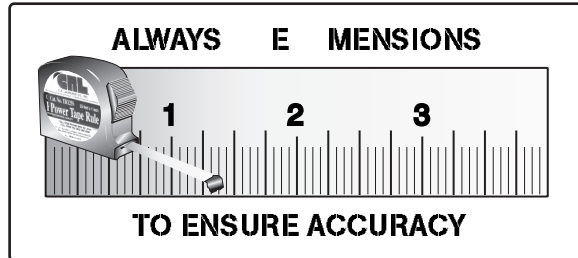
For public safety, we recommend the use of only tempered safety glass.
Do not use power tools when installing these hinges.

Maintenance Guidelines:

- Never use an abrasive cleaner on the hardware. Many of the components are coated with a clear lacquer that will be irreparably damaged if subjected to harsh, abrasive chemicals. Advise your customer that drying the hardware with a clean, soft towel on a daily basis is the best way to maintain the hardware. If mineral deposits build-up, mix a couple of drops of a mild liquid soap (such as Ivory or a similar product) into a cup of warm water. Using a soft, non-abrasive cloth, clean the hardware. Rinse thoroughly with clean, warm water and dry.

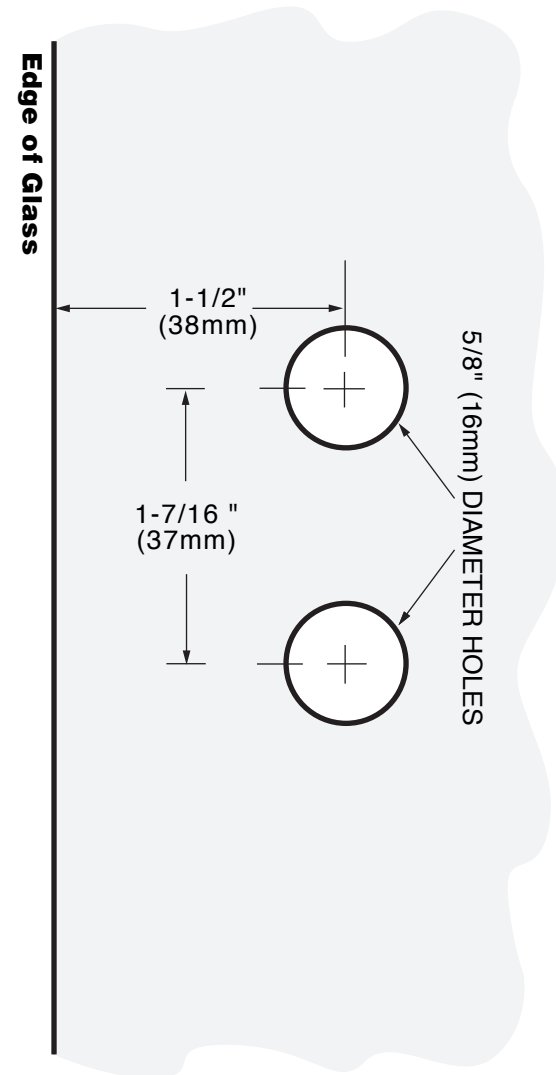


C.R. LAURENCE CO., INC.
PROFESSIONAL QUALITY



Important Information:

Changing the angle alters the location of the holes to be drilled in the glass!
 Before fabricating the glass to any other angle than what's shown, consult with
 C.R. Laurence's Technical Sales Department:
 In the United States call (800) 421-6144; from Canada call (877) 421-6144;
 Outside the U.S. and Canada call (323) 588-1281. Ask for extension 777.



REGAL

Wall Mount Hinge

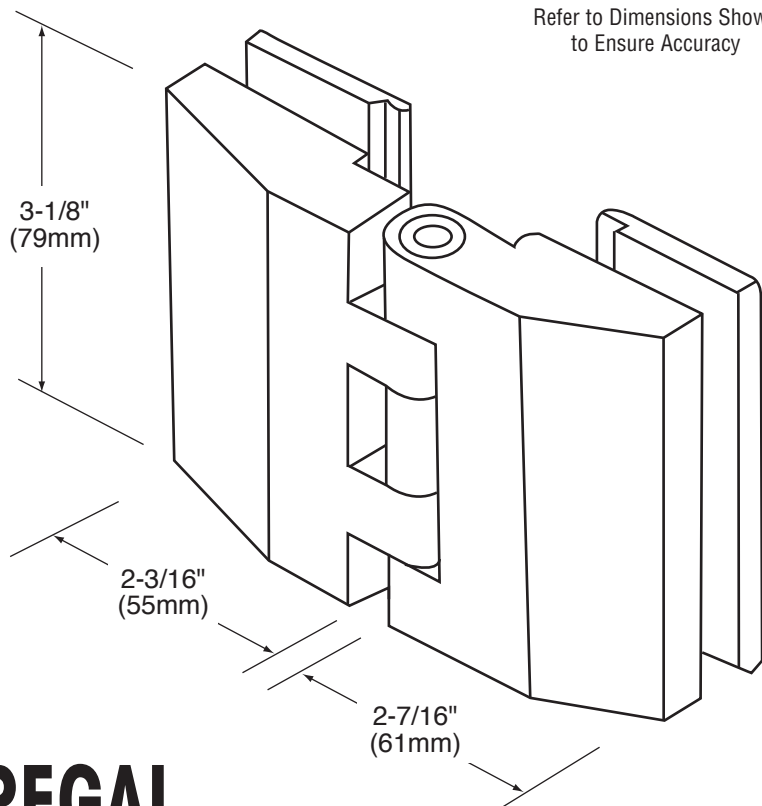
Cat. No. REG037

C.R. Laurence Co., Inc.
 crlaurence.com

For technical assistance in the United States call toll free (800) 421-6144; from Canada call toll free (877) 421-6144;
 Outside the U.S. and Canada call (323) 588-1281. Ask for Tech Sales at Extension 7740. Toll free fax (800) 458-7496.



*** SEE TEMPLATE ON BACK ***
 Refer to Dimensions Shown
 to Ensure Accuracy



REGAL

Glass-to-Glass Hinge (180° Application)

CAT. No. REG180

*Maximum Door Capacities	5/16" (8mm) Glass		3/8" (10mm) Glass	
	Weight	Width	Weight	Width
Using 2 Hinges	90 lbs.(41 kg)	30"(762mm)	90 lbs.(41 kg)	30"(762mm)
Using 3 Hinges	130 lbs.(59 kg)	34"(864 mm)	130 lbs.(59 kg)	34"(864 mm)

***NOTE:** Do not exceed either maximum weight or width when choosing proper quantity of hinges.

Important Information:

- 1). This is a one-direction hinge and is designed for an outswing application only.
A door strike is required so the door isn't allowed to swing inward and damage the door glass.
- 2). This hinge comes equipped with a self-centering mechanism that is fully adjustable. By loosening the Allen head screw that serves as part of the pivot barrel, the hinge's self-centering position can be altered. Simply loosen the Allen screw and swing the door to the desired position. Now tighten the Allen screw, and you have established a new-centering position.
- 3). Changing the angle alters the location of the holes to be drilled in the glass! Before fabricating the glass to any other angle than what's shown, consult with C.R. Laurence's Technical Sales Department:
 In the United States call (800) 421-6144; from Canada call (877) 421-6144;
 Outside the U.S. and Canada call (323) 588-1281. Ask for extension 777.

Specifications:

Glass Sizes: 5/16" (8mm) to 3/8" (10mm) thick tempered safety glass

Construction: Solid brass

Closing Type: Self-centering when within 15° of closed position

Two Holes Required

Includes: Gaskets, screws and template

Use of Gaskets:

For 5/16"(8mm) Glass: Use one thick gasket on each side

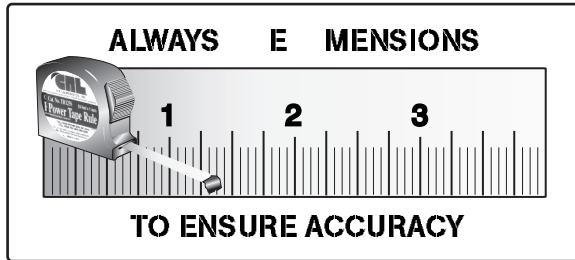
For 3/8"(10mm) Glass: Use one thin gasket on each side

Recommendations:

For public safety, we recommend the use of only tempered safety glass.
 Do not use power tools when installing these hinges.

Maintenance Guidelines:

- Never use an abrasive cleaner on the hardware. Many of the components are coated with a clear lacquer that will be irreparably damaged if subjected to harsh, abrasive chemicals. Advise your customer that drying the hardware with a clean, soft towel on a daily basis is the best way to maintain the hardware. If mineral deposits build-up, mix a couple of drops of a mild liquid soap (such as Ivory or a similar product) into a cup of warm water. Using a soft, non-abrasive cloth, clean the hardware. Rinse thoroughly with clean, warm water and dry.



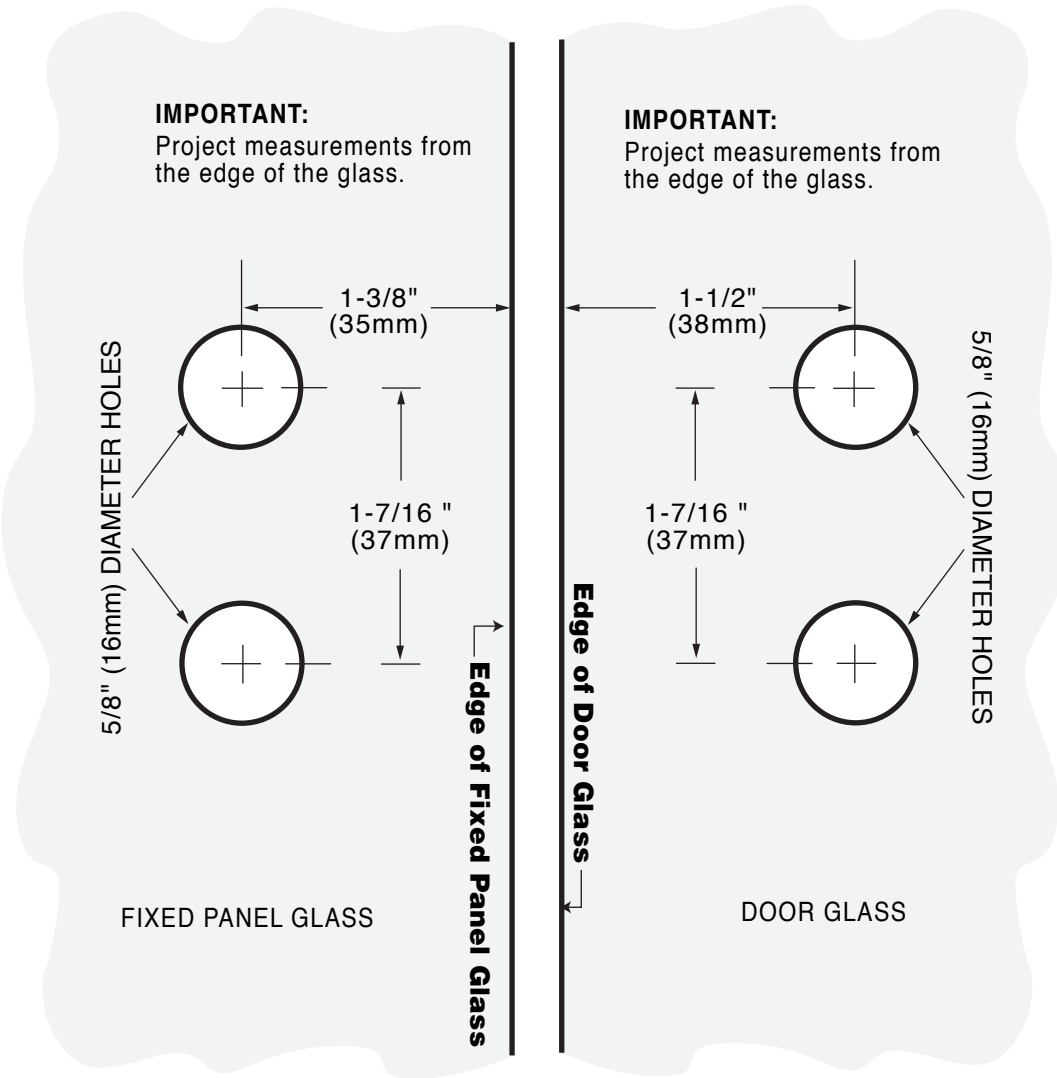
Important Information:

Changing the angle alters the location of the holes to be drilled in the glass!
 Before fabricating the glass to any other angle than what's shown,
 consult with C.R. Laurence's Technical Sales Department:
 In the United States call (800) 421-6144; from Canada call (877) 421-6144;
 Outside the U.S. and Canada call (323) 588-1281. Ask for extension 777.

REGAL

Glass-to-Glass Hinge (180° Application)

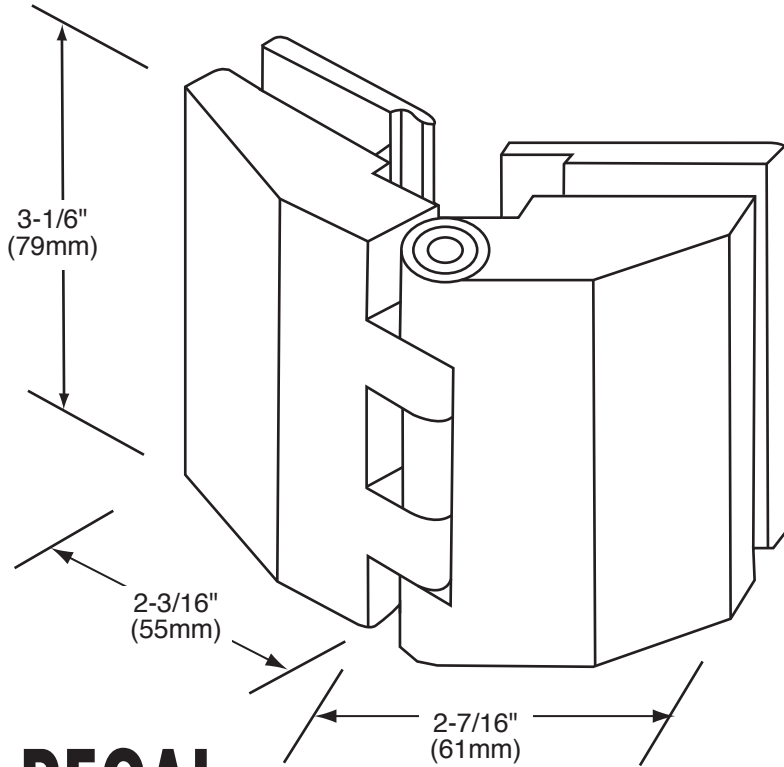
Cat. No. REG180





C.R. LAURENCE CO., INC.
PROFESSIONAL QUALITY

*** SEE TEMPLATE ON BACK ***
 Refer to Dimensions Shown
 to Ensure Accuracy



REGAL

Glass-to-Glass Hinge (135° Application)

CAT. No. REG180

*Maximum Door Capacities	5/16" (8mm) Glass		3/8" (10mm) Glass	
	Weight	Width	Weight	Width
Using 2 Hinges	90 lbs.(41 kg)	30"(762mm)	90 lbs.(41 kg)	30"(762mm)
Using 3 Hinges	130 lbs.(59 kg)	34"(864 mm)	130 lbs.(59 kg)	34"(864 mm)

***NOTE:** Do not exceed either maximum weight or width when choosing proper quantity of hinges.

Important Information:

- 1). This is a one-direction hinge and is designed for an outswing application only.
A door strike is required so the door isn't allowed to swing inward and damage the door glass.
- 2). This hinge comes equipped with a self-centering mechanism that is fully adjustable. By loosening the Allen head screw that serves as part of the pivot barrel, the hinge's self-centering position can be altered. Simply loosen the Allen screw and swing the door to the desired position. Now tighten the Allen screw, and you have established a new-centering position.
- 3). Changing the angle alters the location of the holes to be drilled in the glass! Before fabricating the glass to any other angle than what's shown, consult with C.R. Laurence's Technical Sales Department:
 In the United States call (800) 421-6144; from Canada call (877) 421-6144;
 Outside the U.S. and Canada call (323) 588-1281. Ask for extension 777.

Specifications:

Glass Sizes: 5/16" (8mm) to 3/8" (10mm) thick tempered safety glass

Construction: Solid brass

Closing Type: Self-centering when within 15° of closed position

Two Holes Required

Includes: Gaskets, screws and template

Use of Gaskets:

For 5/16"(8mm) Glass: Use one thick gasket on each side

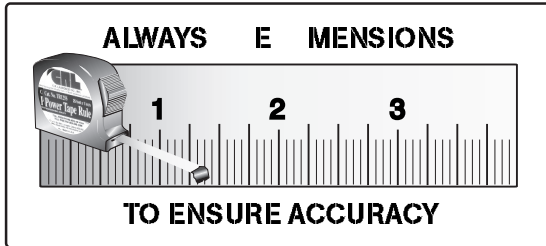
For 3/8"(10mm) Glass: Use one thin gasket on each side

Recommendations:

For public safety, we recommend the use of only tempered safety glass.
 Do not use power tools when installing these hinges.

Maintenance Guidelines:

- Never use an abrasive cleaner on the hardware. Many of the components are coated with a clear lacquer that will be irreparably damaged if subjected to harsh, abrasive chemicals. Advise your customer that drying the hardware with a clean, soft towel on a daily basis is the best way to maintain the hardware. If mineral deposits build-up, mix a couple of drops of a mild liquid soap (such as Ivory or a similar product) into a cup of warm water. Using a soft, non-abrasive cloth, clean the hardware. Rinse thoroughly with clean, warm water and dry.



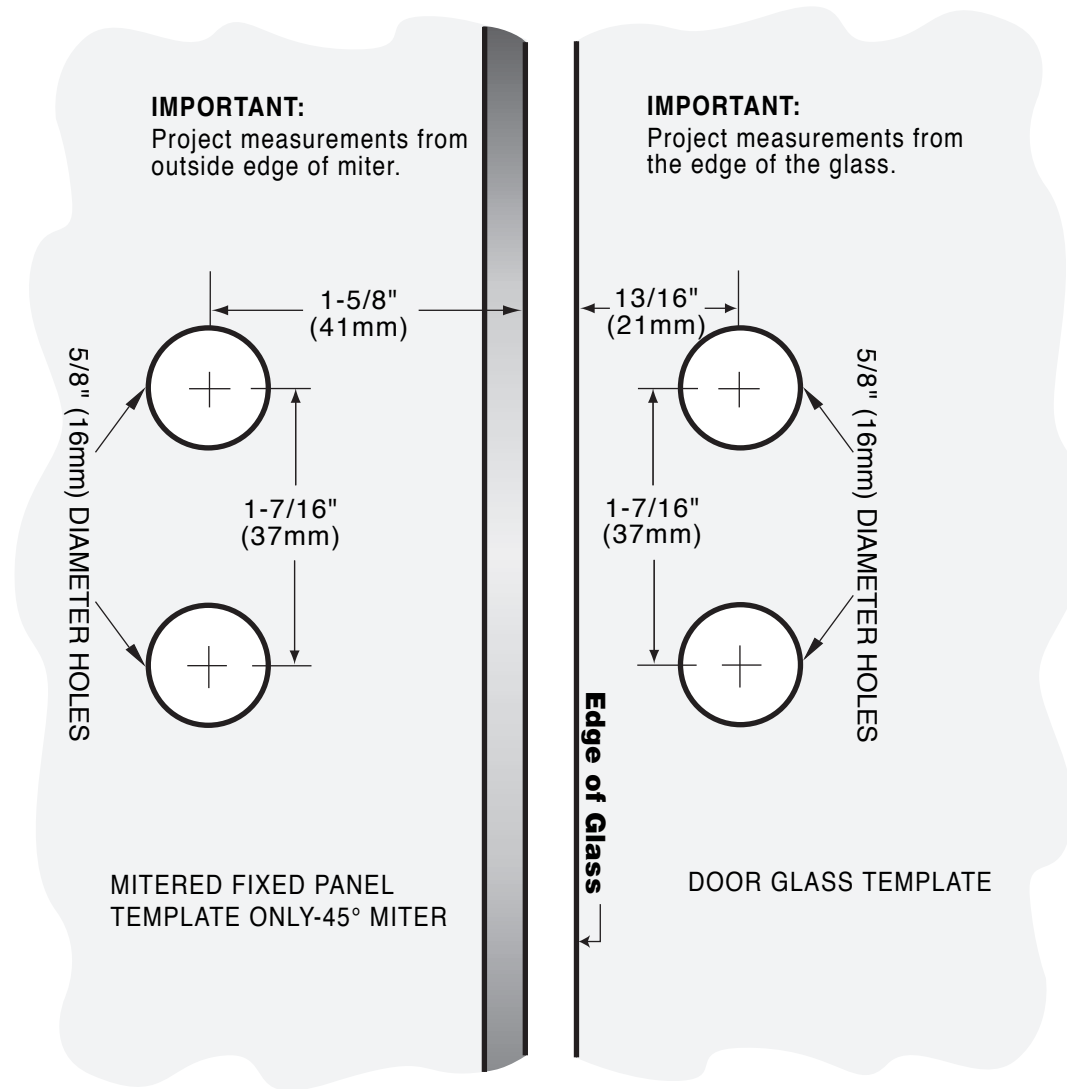
Important Information:

Changing the angle alters the location of the holes to be drilled in the glass!
 Before fabricating the glass to any other angle than what's shown, consult with C.R. Laurence's Technical Sales Department:
 In the United States call (800) 421-6144; from Canada call (877) 421-6144;
 Outside the U.S. and Canada call (323) 588-1281. Ask for extension 777.

REGAL

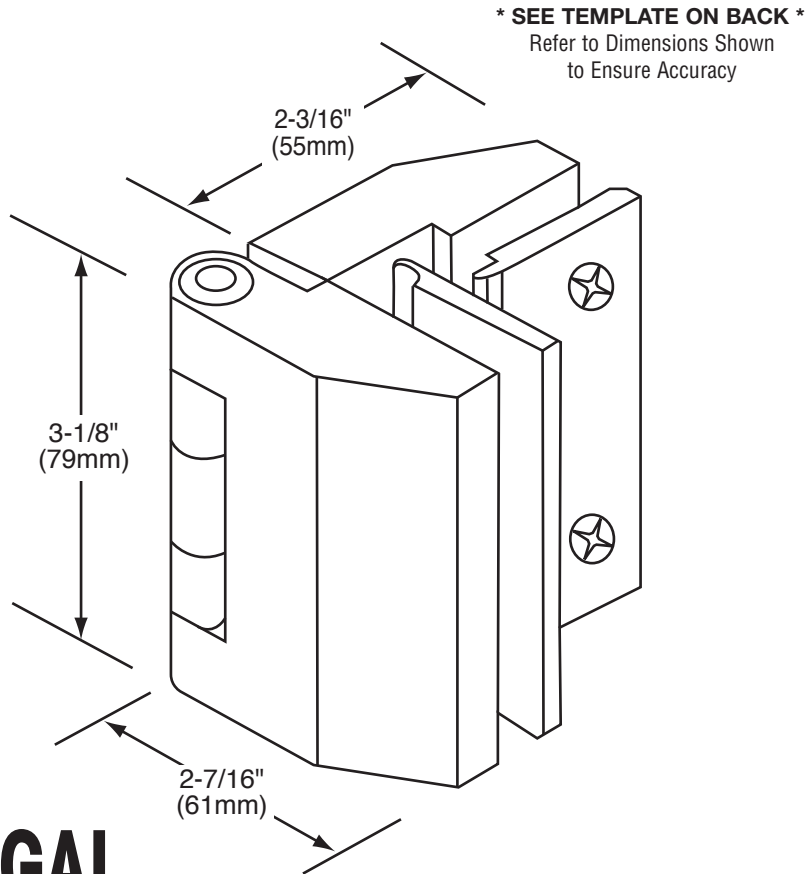
Glass-to-Glass Hinge (135° Application)

CAT. No. REG180





C.R. LAURENCE CO., INC.
PROFESSIONAL QUALITY



REGAL

Glass-to-Glass Hinge (90° Application)

CAT. No. REG180

*Maximum Door Capacities	5/16" (8mm) Glass		3/8" (10mm) Glass	
	Weight	Width	Weight	Width
Using 2 Hinges	90 lbs.(41 kg)	30"(762mm)	90 lbs.(27 kg)	30"(762mm)
Using 3 Hinges	130 lbs.(59 kg)	34"(864 mm)	130 lbs.(41 kg)	34"(864 mm)

*NOTE: Do not exceed either maximum weight or width when choosing proper quantity of hinges.

Important Information:

- 1). This is a one-direction hinge and is designed for an outswing application only.
A door strike is required so the door isn't allowed to swing inward and damage the door glass.
- 2). This hinge comes equipped with a self-centering mechanism that is fully adjustable. By loosening the Allen head screw that serves as part of the pivot barrel, the hinge's self-centering position can be altered. Simply loosen the Allen screw and swing the door to the desired position. Now tighten the Allen screw, and you have established a new-centering position.
- 3). Changing the angle alters the location of the holes to be drilled in the glass! Before fabricating the glass to any other angle than what's shown, consult with C.R. Laurence's Technical Sales Department:
 In the United States call (800) 421-6144; from Canada call (877) 421-6144;
 Outside the U.S. and Canada call (323) 588-1281. Ask for extension 777.

Specifications:

Glass Sizes: 5/16" (8mm) to 3/8" (10mm) thick tempered safety glass

Construction: Solid brass

Closing Type: Self-centering when within 15° of closed position

Two Holes Required

Includes: Gaskets, screws and template

Use of Gaskets:

For 5/16"(8mm) Glass: Use one thick gasket on each side

For 3/8"(10mm) Glass: Use one thin gasket on each side

Recommendations:

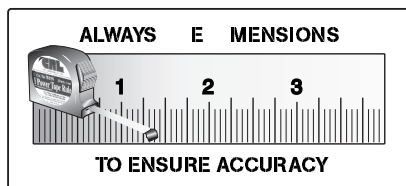
For public safety, we recommend the use of only tempered safety glass.
 Do not use power tools when installing these hinges.

Maintenance Guidelines:

- Never use an abrasive cleaner on the hardware. Many of the components are coated with a clear lacquer that will be irreparably damaged if subjected to harsh, abrasive chemicals. Advise your customer that drying the hardware with a clean, soft towel on a daily basis is the best way to maintain the hardware. If mineral deposits build-up, mix a couple of drops of a mild liquid soap (such as Ivory or a similar product) into a cup of warm water. Using a soft, non-abrasive cloth, clean the hardware. Rinse thoroughly with clean, warm water and dry.



C.R. LAURENCE CO., INC.
PROFESSIONAL QUALITY



Important Information:

Changing the angle alters the location of the holes to be drilled in the glass!
Before fabricating the glass to any other angle than what's shown, consult with C.R. Laurence's Technical Sales Department:
In the United States call (800) 421-6144; from Canada call (877) 421-6144;
Outside the U.S. and Canada call (323) 588-1281. Ask for extension 777.

REGAL

Glass-to-Glass Hinge (90° Application)

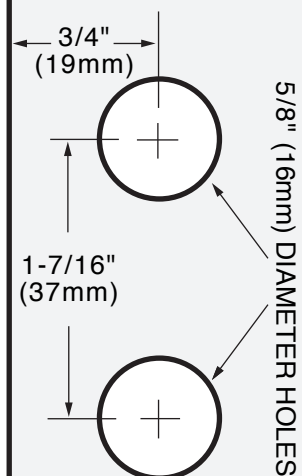
CAT. No. REG180

C.R. Laurence Co., Inc.
crlaurence.com

For technical assistance in the United States call toll free (800) 421-6144; from Canada call toll free (877) 421-6144;
Outside the U.S. and Canada call (323) 588-1281. Ask for Tech Sales at Extension 7740. Toll free fax (800) 458-7496.

IMPORTANT:

Project measurements from the edge of the glass.

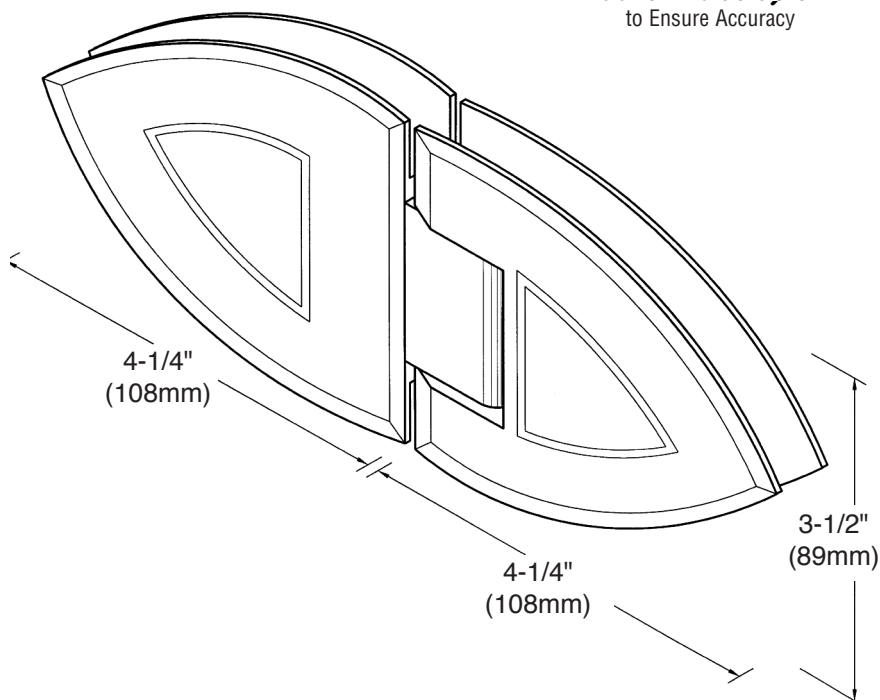


**NOTE: DOOR GLASS AND
FIXED PANEL GLASS USE
THE SAME TEMPLATE**



C.R. LAURENCE CO., INC.
PROFESSIONAL QUALITY

*** SEE TEMPLATE ON BACK ***
Refer to Dimensions Shown
to Ensure Accuracy



CATHEDRAL

180° Glass-to-Glass Hinge

CAT No. CAT180

*Maximum Door Capacities	3/8" (10mm) Glass		1/2" (12mm) Glass	
	Weight	Width	Weight	Width
Using 2 Hinges	95 lbs.(43 kg)	34"(864mm)	95 lbs.(43 kg)	34"(864mm)
Using 3 Hinges	140 lbs.(64 kg)	38"(965mm)	140 lbs.(64 kg)	38"(965mm)

***NOTE:** Do not exceed either maximum weight or width when choosing proper quantity of hinges.

Important Information:

- 1) This hinge contains a dual degree pivot pin. The pivot pin is set for normal door closing position. You have the option of altering the closing position of the door 5 degrees inward by utilizing the opposite side of the pivot pin, which has been pre-machined (see Section 3 of Cat. No. SDT20 Frameless Shower Door Guide for this procedure). Special order custom pivot pins are available (Cat.No. GENP1N) that can be machined at any angle up to 45 degrees.
- 2) The door and the fixed panel use the same cutout.

Specifications:

Glass Sizes: 3/8" (10mm) to 1/2" (12mm) thick tempered safety glass
Construction: Solid brass
Closing Type: Self-centering when within 15° of closed position
Cutout and Hole Required
Includes: Gaskets, screws and template

Use of Gaskets:

For 3/8"(10mm) Glass: Use one thick gasket on each side
For 1/2"(12mm) Glass: Use one thin gasket on each side

Recommendations:

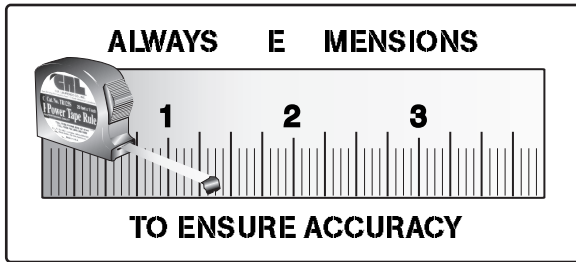
For public safety, we recommend the use of only tempered safety glass.
 Do not use power tools when installing these hinges.

Maintenance Guidelines:

- Our hinges are greased at the factory for quiet and trouble-free operation. If there is any squeaking that occurs after installation, put a drop of "3 in 1 Oil" (also known as "household oil") on the white nylon washer that the hinge body pivots on. This washer is the component that acts as a buffer, so the body of the hinge doesn't pivot directly on the brass center block. This solution doesn't require the disassembly of the hinge.
Note: Do not use spray lubricant on these hinges. If the hinge has been disassembled, upon re-assembly, use white lithium grease to lubricate the interior mechanism.
- Never use an abrasive cleaner on the hardware. Many of the components are coated with a clear lacquer that will be irreparably damaged if subjected to harsh, abrasive chemicals. Advise your customer that drying the hardware with a clean, soft towel on a daily basis is the best way to maintain the hardware. If mineral deposits build-up, mix a couple of drops of a mild liquid soap (such as Ivory or a similar product) into a cup of warm water. Using a soft, non-abrasive cloth, clean the hardware. Rinse thoroughly with clean, warm water and dry.

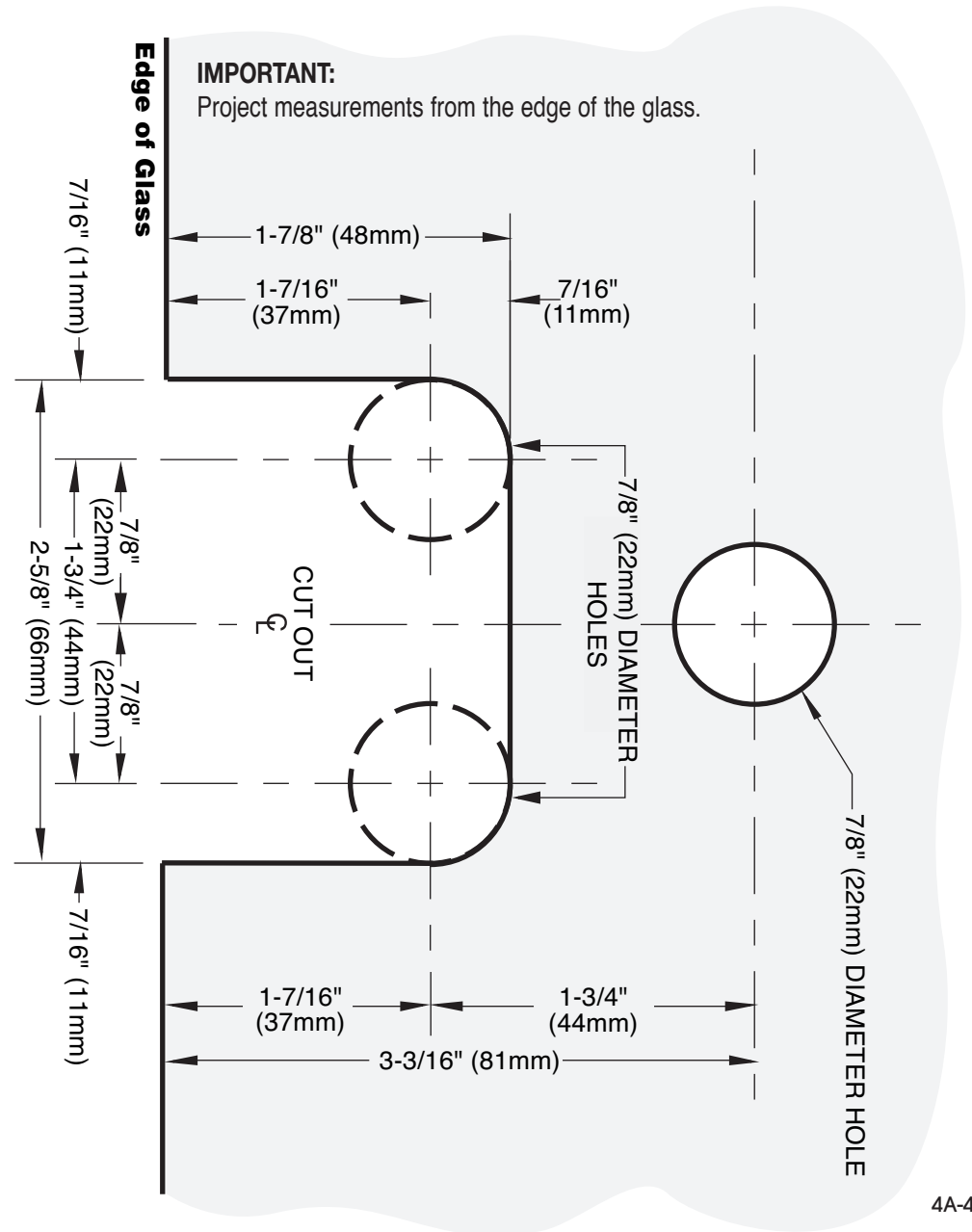


C.R. LAURENCE CO., INC.
PROFESSIONAL QUALITY



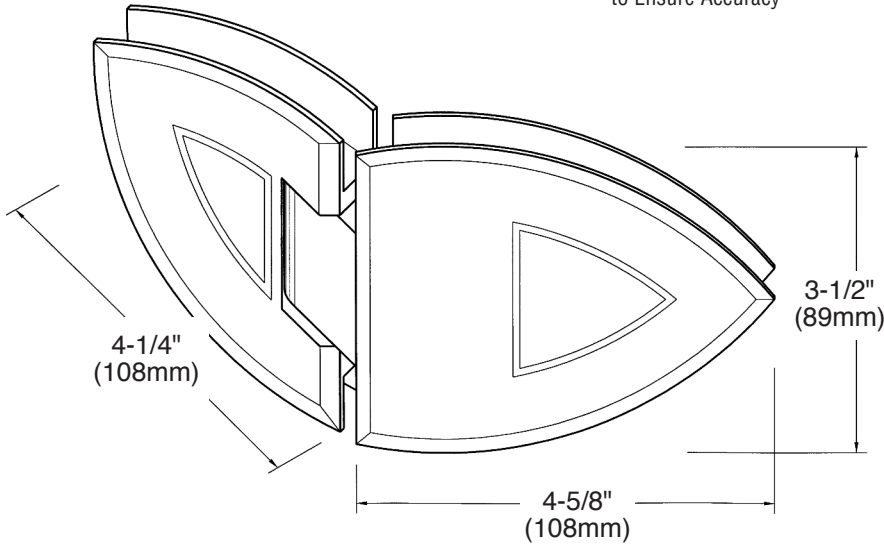
CATHEDRAL

180° Glass-to-Glass Hinge
 CAT No. CAT180





*** SEE TEMPLATE ON BACK ***
Refer to Dimensions Shown
to Ensure Accuracy



Important Information:

- 1) This hinge contains a dual degree pivot pin. The pivot pin is set for normal door closing position. You have the option of altering the closing position of the door 5 degrees inward by utilizing the opposite side of the pivot pin, which has been pre-machined (see Section 3 of Cat. No. SDT20 Frameless Shower Door Guide for this procedure). Special order custom pivot pins are available (Cat.No. GENP1N) that can be machined at any angle up to 45 degrees.
- 2) The fixed panel measurements must be taken from the outside of the miter

Specifications:

Glass Sizes: 3/8" (10mm) to 1/2" (12mm) thick tempered safety glass
Construction: Solid brass
Closing Type: Self-centering when within 15° of closed position
Cutout and Hole Required
Includes: Gaskets, screws and template

Use of Gaskets:

For 3/8"(10mm) Glass: Use one thick gasket on each side
For 1/2"(12mm) Glass: Use one thin gasket on each side

Recommendations:

For public safety, we recommend the use of only tempered safety glass.
 Do not use power tools when installing these hinges.

Maintenance Guidelines:

- Our hinges are greased at the factory for quiet and trouble-free operation. If there is any squeaking that occurs after installation, put a drop of "3 in 1 Oil" (also known as "household oil") on the white nylon washer that the hinge body pivots on. This washer is the component that acts as a buffer, so the body of the hinge doesn't pivot directly on the brass center block. This solution doesn't require the disassembly of the hinge.
Note: Do not use spray lubricant on these hinges. If the hinge has been disassembled, upon re-assembly, use white lithium grease to lubricate the interior mechanism.
- Never use an abrasive cleaner on the hardware. Many of the components are coated with a clear lacquer that will be irreparably damaged if subjected to harsh, abrasive chemicals. Advise your customer that drying the hardware with a clean, soft towel on a daily basis is the best way to maintain the hardware. If mineral deposits build-up, mix a couple of drops of a mild liquid soap (such as Ivory or a similar product) into a cup of warm water. Using a soft, non-abrasive cloth, clean the hardware. Rinse thoroughly with clean, warm water and dry.

CATHEDRAL

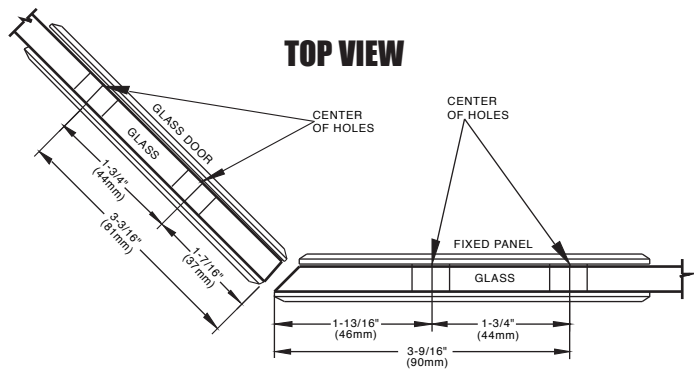
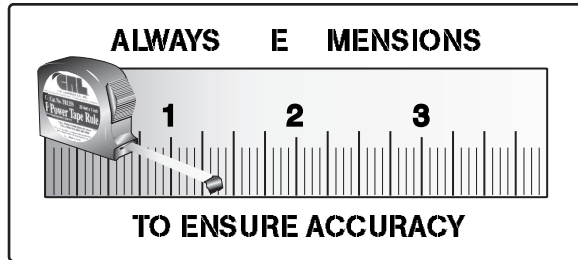
135° Glass-to-Glass Hinge

CAT No. CAT045

(This hinge requires two different templates, one for the door and one for the mitered fixed panel).

*Maximum Door Capacities	3/8" (10mm) Glass		1/2" (12mm) Glass	
	Weight	Width	Weight	Width
Using 2 Hinges	95 lbs.(43 kg)	34"(864mm)	95 lbs.(43 kg)	34"(864mm)
Using 3 Hinges	140 lbs.(64 kg)	38"(965mm)	140 lbs.(64 kg)	38"(965mm)

***NOTE:** Do not exceed either maximum weight or width when choosing proper quantity of hinges.

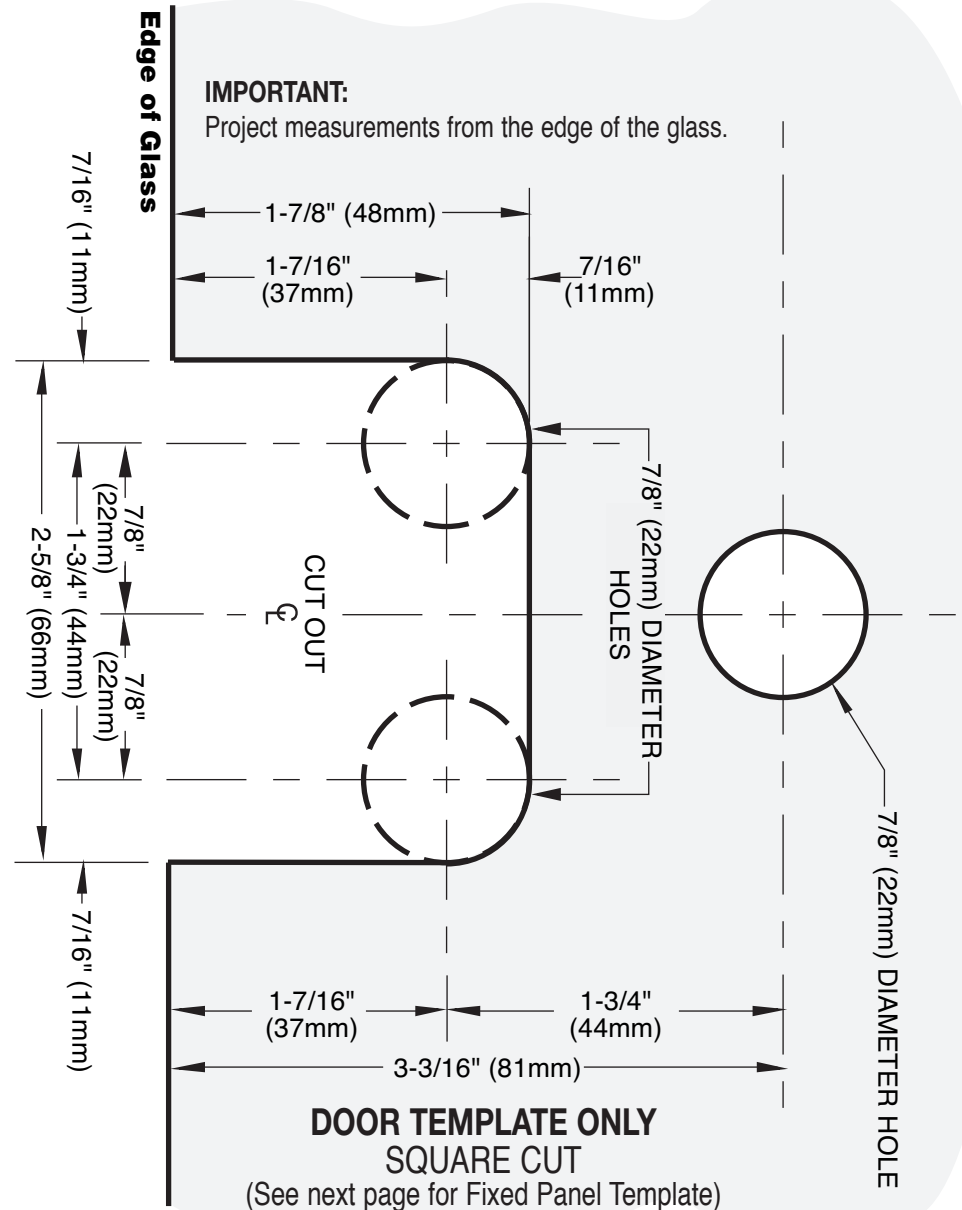


CATHEDRAL

135° Glass-to-Glass Hinge

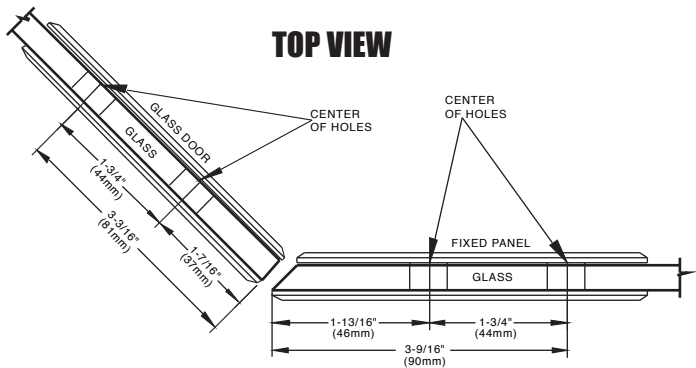
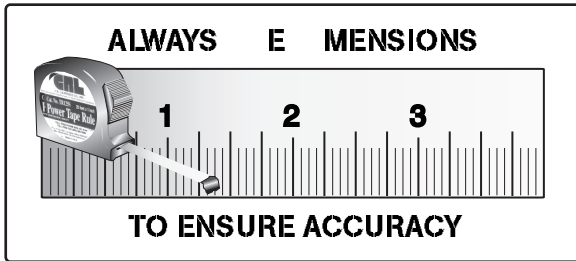
CAT No. CAT045

(This hinge requires two different templates, one for the door and one for the mitered fixed panel).





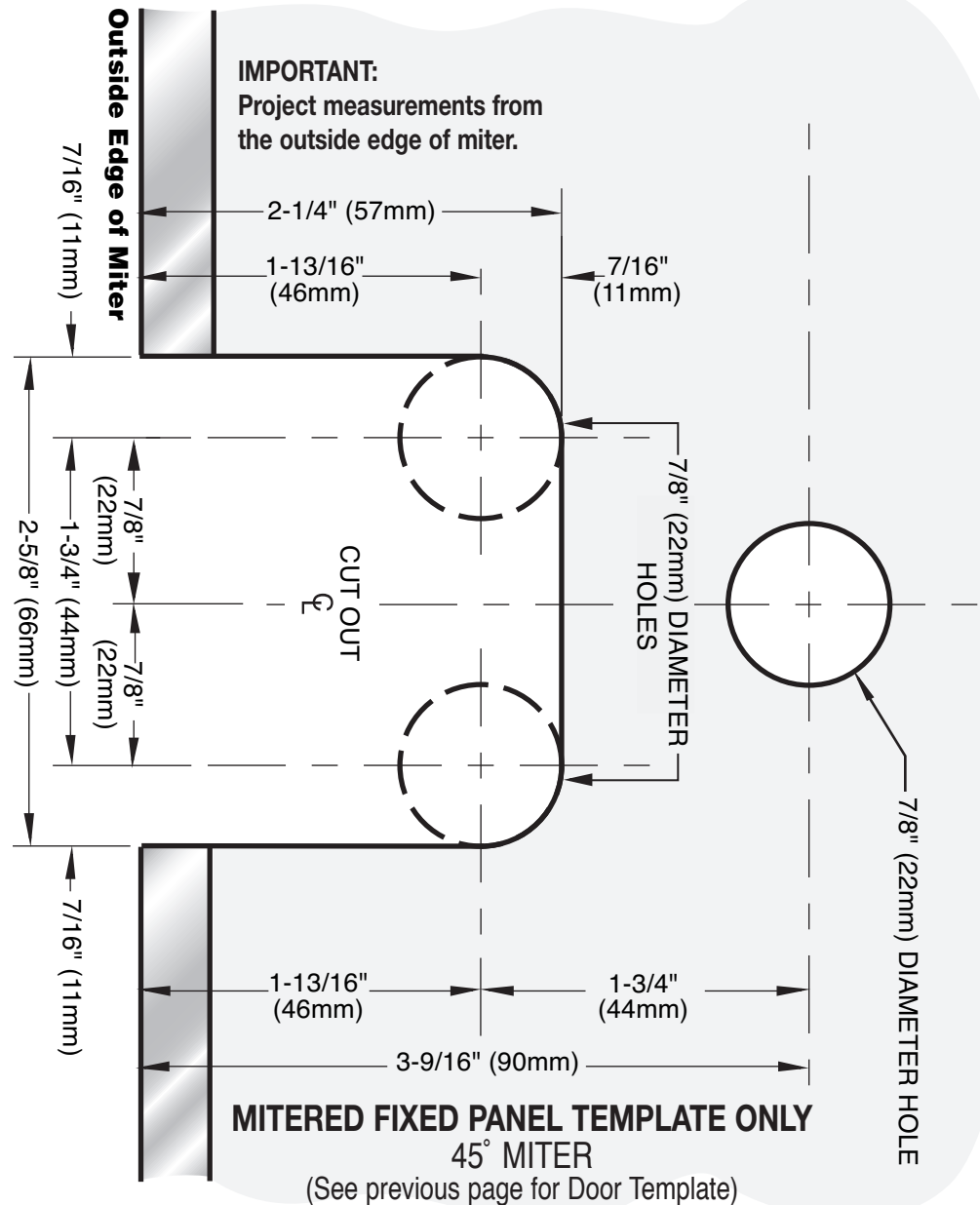
C.R. LAURENCE CO., INC.
PROFESSIONAL QUALITY



CATHEDRAL

135° Glass-to-Glass Hinge
CAT No. CAT045

(This hinge requires two different templates, one for the door and one for the mitered fixed panel).

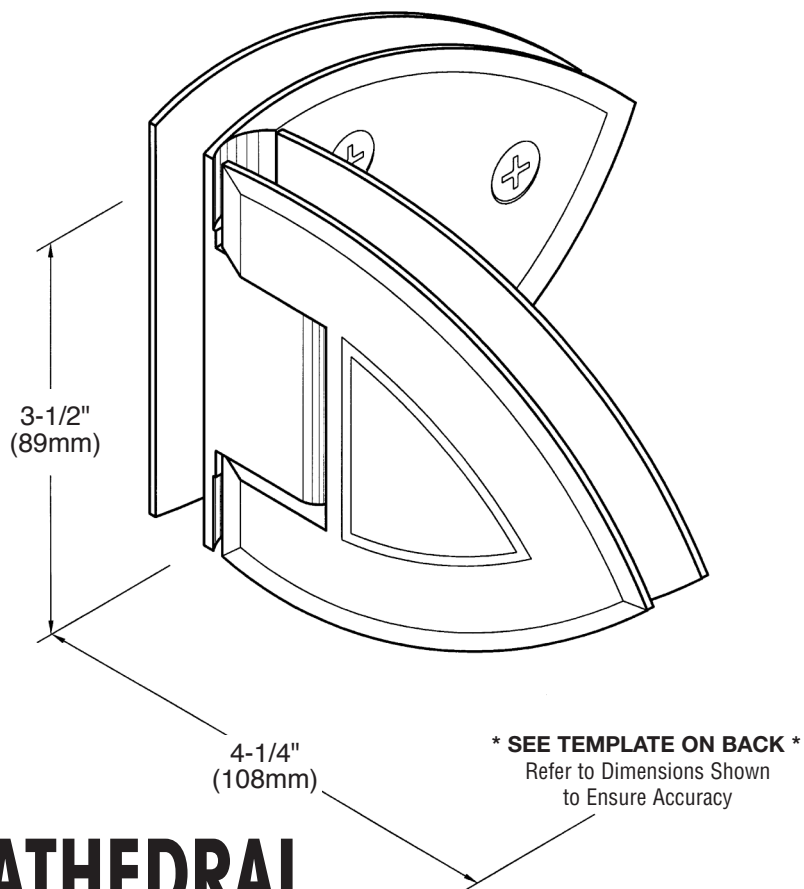




C.R. Laurence Company has established a Technical Sales Department to assist our customers. If you have any questions concerning shower door hardware or any product from CRL, please contact us at:
(800) 421-6144 in the U.S.,
or (877) 421-6144 from Canada,
and ask for Extension 7740



C.R. LAURENCE CO., INC.
PROFESSIONAL QUALITY



CATHEDRAL

90° Glass-to-Glass Hinge

CAT No. CAT090

(This hinge offers two different templates, one for the door and one for the fixed panel).

*Maximum Door Capacities	3/8" (10mm) Glass		1/2" (12mm) Glass	
	Weight	Width	Weight	Width
Using 2 Hinges	95 lbs.(43 kg)	34"(864mm)	95 lbs.(43 kg)	34"(864mm)
Using 3 Hinges	140 lbs.(64 kg)	38"(965mm)	140 lbs.(64 kg)	38"(965mm)

*NOTE: Do not exceed either maximum weight or width when choosing proper quantity of hinges.

Important Information:

This hinge contains a dual degree pivot pin. The pivot pin is set for normal door closing position. You have the option of altering the closing position of the door 5 degrees inward by utilizing the opposite side of the pivot pin, which has been pre-machined (see Section 3 of Cat. No. SDT20 Frameless Shower Door Guide for this procedure). Special order custom pivot pins are available (Cat.No. GENP1N) that can be machined at any angle up to 45 degrees.

Specifications:

- Glass Sizes:** 3/8" (10mm) to 1/2" (12mm) thick tempered safety glass
- Construction:** Solid brass
- Closing Type:** Self-centering when within 15° of closed position
- Cutout and Hole Required for Door.**
- Fixed Panel Requires Holes Only.**
- Includes:** Gaskets, screws and template

Use of Gaskets:

- For 3/8"(10mm) Glass:** Use one thick gasket on each side
- For 1/2"(12mm) Glass:** Use one thin gasket on each side

Recommendations:

For public safety, we recommend the use of only tempered safety glass. Do not use power tools when installing these hinges.

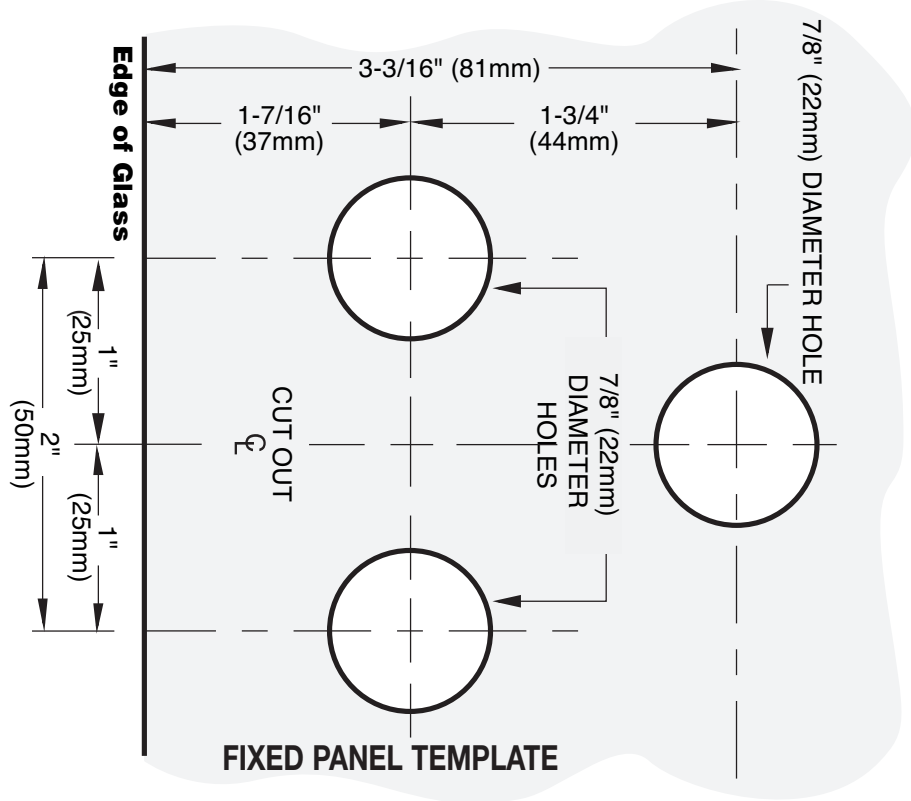
Maintenance Guidelines:

- Our hinges are greased at the factory for quiet and trouble-free operation. If there is any squeaking that occurs after installation, put a drop of "3 in 1 Oil" (also known as "household oil") on the white nylon washer that the hinge body pivots on. This washer is the component that acts as a buffer, so the body of the hinge doesn't pivot directly on the brass center block. This solution doesn't require the disassembly of the hinge. **Note: Do not use spray lubricant on these hinges.** If the hinge has been disassembled, upon re-assembly, use white lithium grease to lubricate the interior mechanism.
- Never use an abrasive cleaner on the hardware. Many of the components are coated with a clear lacquer that will be irreparably damaged if subjected to harsh, abrasive chemicals. Advise your customer that drying the hardware with a clean, soft towel on a daily basis is the best way to maintain the hardware. If mineral deposits build-up, mix a couple of drops of a mild liquid soap (such as Ivory or a similar product) into a cup of warm water. Using a soft, non-abrasive cloth, clean the hardware. Rinse thoroughly with clean, warm water and dry.



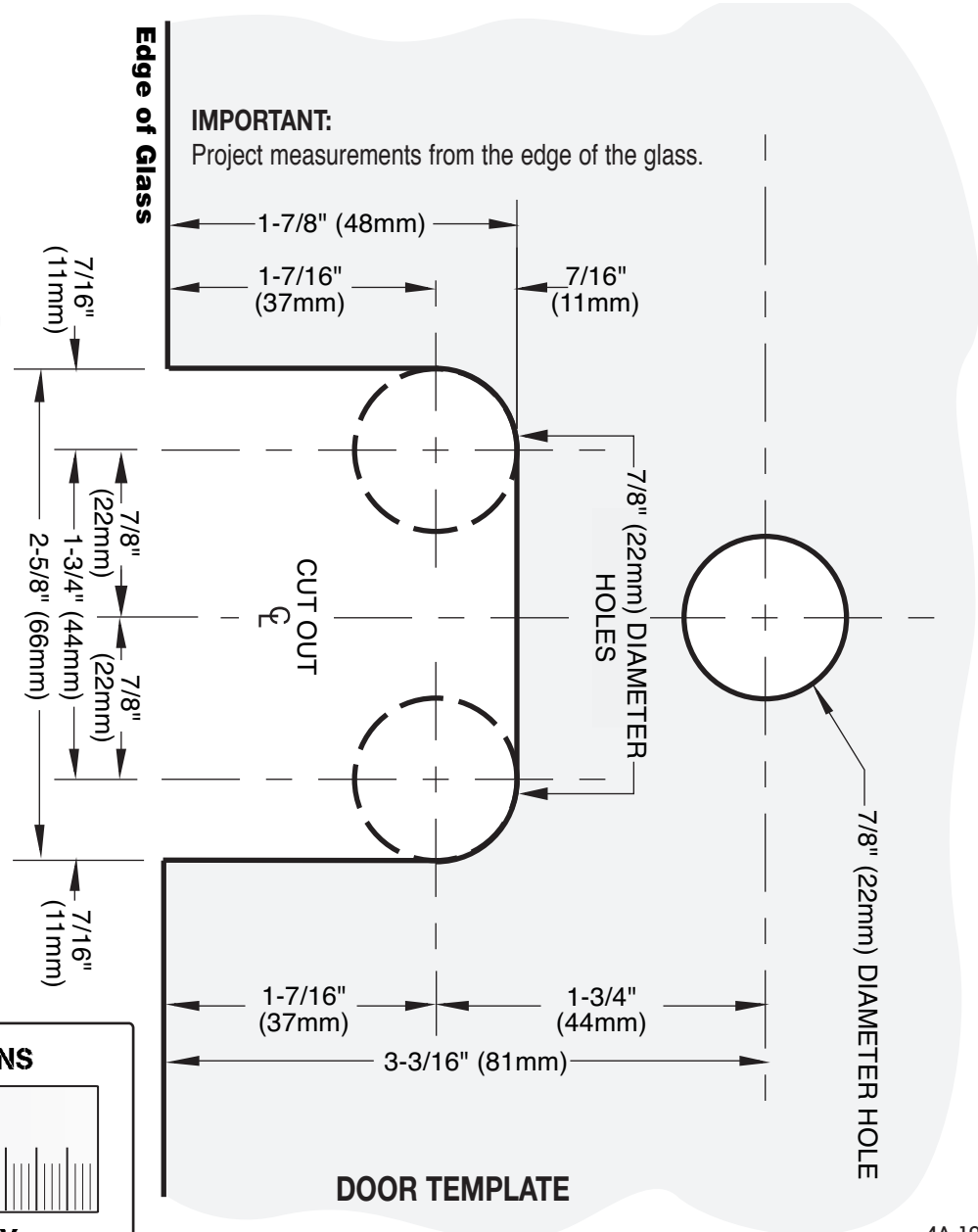
IMPORTANT:

Project measurements from the edge of the glass.

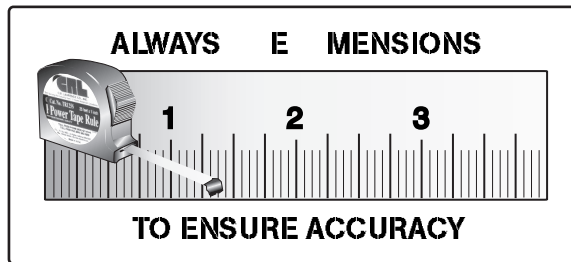


IMPORTANT:

Project measurements from the edge of the glass.

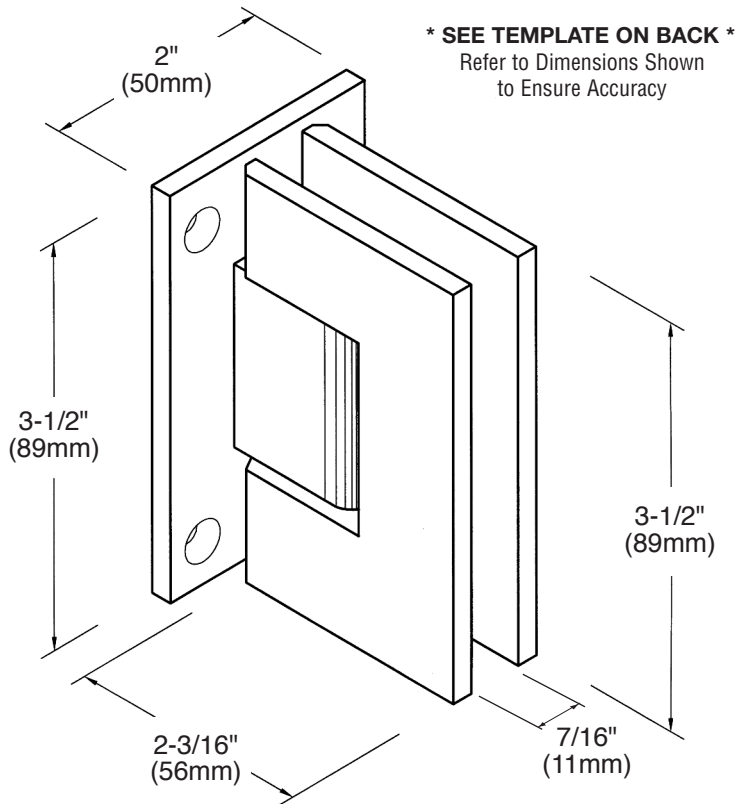


CATHEDRAL
90° Glass-to-Glass Hinge
CAT No. CAT090





C.R. LAURENCE CO., INC.
PROFESSIONAL QUALITY



Important Information:

This hinge contains a dual degree pivot pin. The pivot pin is set for normal door closing position. You have the option of altering the closing position of the door 5 degrees inward by utilizing the opposite side of the pivot pin, which has been pre-machined (see Section 3 of Cat. No. SDT20 Frameless Shower Door Guide for this procedure). Special order custom pivot pins are available (Cat.No. GENP1N) that can be machined at any angle up to 45 degrees.

Specifications:

Glass Sizes: 3/8" (10mm) to 1/2" (12mm) thick tempered safety glass

Construction: Solid brass

Closing Type: Self-centering when within 15° of closed position

Cutout Required

Includes: Gaskets, screws and template

Use of Gaskets:

For 3/8" (10mm) Glass: Use one thick gasket on each side

For 1/2" (12mm) Glass: Use one thin gasket on each side

Recommendations:

For public safety, we recommend the use of only tempered safety glass. Do not use power tools when installing these hinges.

Maintenance Guidelines:

- Our hinges are greased at the factory for quiet and trouble-free operation. If there is any squeaking that occurs after installation, put a drop of "3 in 1 Oil" (also known as "household oil") on the white nylon washer that the hinge body pivots on. This washer is the component that acts as a buffer, so the body of the hinge doesn't pivot directly on the brass center block. This solution doesn't require the disassembly of the hinge. **Note: Do not use spray lubricant on these hinges.** If the hinge has been disassembled, upon re-assembly, use white lithium grease to lubricate the interior mechanism.
- Never use an abrasive cleaner on the hardware. Many of the components are coated with a clear lacquer that will be irreparably damaged if subjected to harsh, abrasive chemicals. Advise your customer that drying the hardware with a clean, soft towel on a daily basis is the best way to maintain the hardware. If mineral deposits build-up, mix a couple of drops of a mild liquid soap (such as Ivory or a similar product) into a cup of warm water. Using a soft, non-abrasive cloth, clean the hardware. Rinse thoroughly with clean, warm water and dry.

GENEVA

Wall Mount Hinge – Full Back Plate

CAT No. GEN037

*Maximum Door Capacities	3/8" (10mm) Glass		1/2" (12mm) Glass	
	Weight	Width	Weight	Width
Using 2 Hinges	80 lbs.(36 kg)	28"(711mm)	80 lbs.(36 kg)	28"(711mm)
Using 3 Hinges	120 lbs.(54 kg)	32"(813mm)	120 lbs.(54 kg)	32"(813mm)

***NOTE:** Do not exceed either maximum weight or width when choosing proper quantity of hinges.

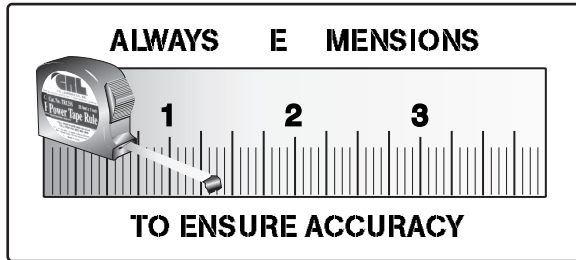
C.R. Laurence Co., Inc.
crlaurence.com

For technical assistance in the United States call toll free (800) 421-6144; from Canada call toll free (877) 421-6144; Outside the U.S. and Canada call (323) 588-1281. Ask for Tech Sales at Extension 7740. Toll free fax (800) 458-7496.

© Copyright 2005, C.R. Laurence Co., Inc_SDT21_US



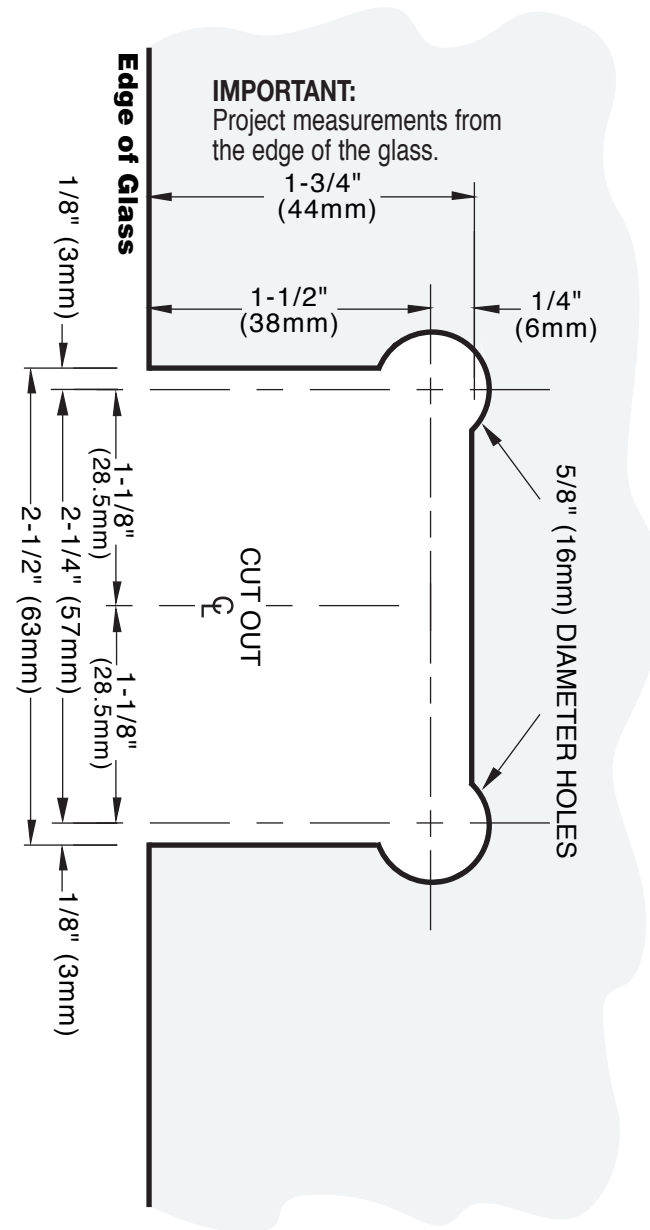
C.R. LAURENCE CO., INC.
PROFESSIONAL QUALITY



GENEVA

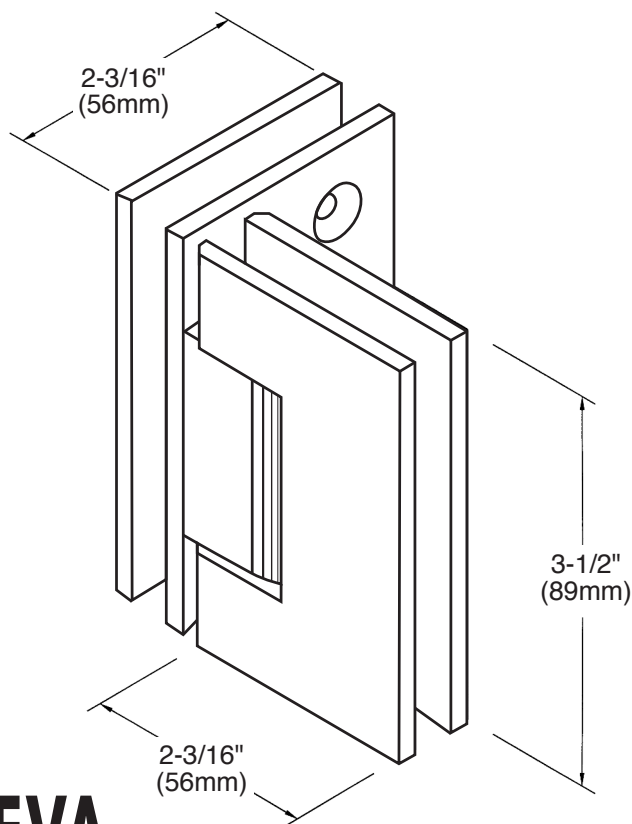
Wall Mount Hinge – Full Back Plate

CAT No. GEN037





C.R. LAURENCE CO., INC.
PROFESSIONAL QUALITY



GENEVA

90° Glass-to-Glass Hinge

CAT No. GEN092

*** SEE TEMPLATE ON BACK ***
Refer to Dimensions Shown
to Ensure Accuracy

*Maximum Door Capacities	3/8" (10mm) Glass		1/2" (12mm) Glass	
	Weight	Width	Weight	Width
Using 2 Hinges	80 lbs.(36 kg)	28"(711mm)	80 lbs.(36 kg)	28"(711mm)
Using 3 Hinges	120 lbs.(54 kg)	32"(813mm)	120 lbs.(54 kg)	32"(813mm)

***NOTE:** Do not exceed either maximum weight or width when choosing proper quantity of hinges.

Important Information:

- 1) This hinge contains a dual degree pivot pin. The pivot pin is set for normal door closing position. You have the option of altering the closing position of the door 5 degrees inward by utilizing the opposite side of the pivot pin, which has been pre-machined (see Section 3 of Cat. No. SDT20 Frameless Shower Door Guide for this procedure). Special order custom pivot pins are available (Cat.No. GENP1N) that can be machined at any angle up to 45 degrees.
- 2) The door and fixed panel require different fabrication.

Specifications:

Glass Sizes: 3/8" (10mm) to 1/2" (12mm) thick tempered safety glass
Construction: Solid brass
Closing Type: Self-centering when within 15° of closed position
Cutout Required: For Door **Holes Required:** For Panel
Includes: Gaskets, screws and template

Use of Gaskets:

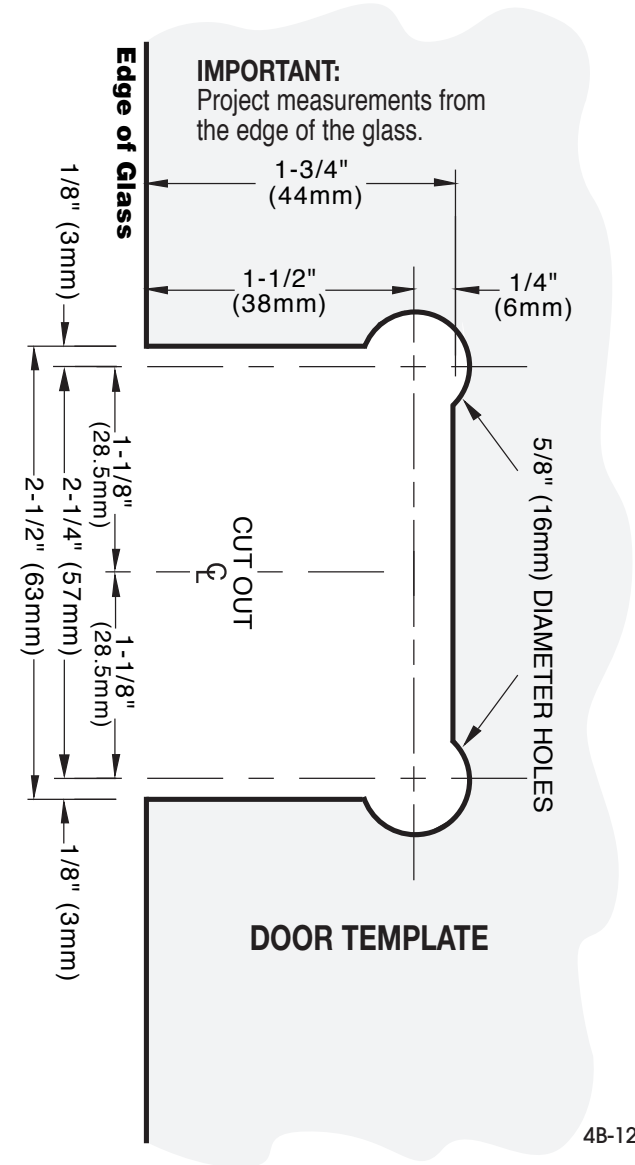
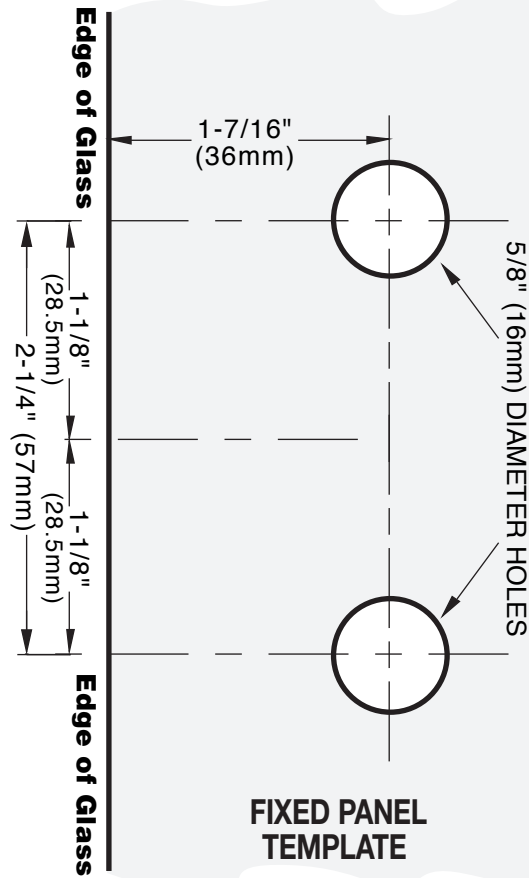
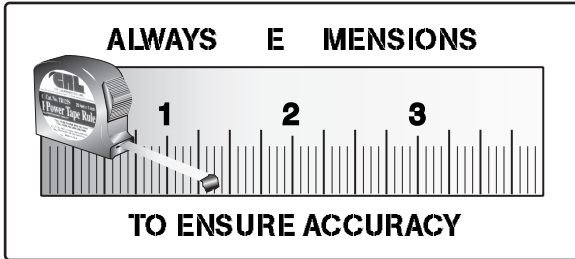
For 3/8"(10mm) Glass: Use one thick gasket on each side
For 1/2"(12mm) Glass: Use one thin gasket on each side

Recommendations:

For public safety, we recommend the use of only tempered safety glass.
Do not use power tools when installing these hinges.

Maintenance Guidelines:

- Our hinges are greased at the factory for quiet and trouble-free operation. If there is any squeaking that occurs after installation, put a drop of "3 in 1 Oil" (also known as "household oil") on the white nylon washer that the hinge body pivots on. This washer is the component that acts as a buffer, so the body of the hinge doesn't pivot directly on the brass center block. This solution doesn't require the disassembly of the hinge.
Note: Do not use spray lubricant on these hinges. If the hinge has been disassembled, upon re-assembly, use white lithium grease to lubricate the interior mechanism.
- Never use an abrasive cleaner on the hardware. Many of the components are coated with a clear lacquer that will be irreparably damaged if subjected to harsh, abrasive chemicals. Advise your customer that drying the hardware with a clean, soft towel on a daily basis is the best way to maintain the hardware. If mineral deposits build-up, mix a couple of drops of a mild liquid soap (such as Ivory or a similar product) into a cup of warm water. Using a soft, non-abrasive cloth, clean the hardware. Rinse thoroughly with clean, warm water and dry.



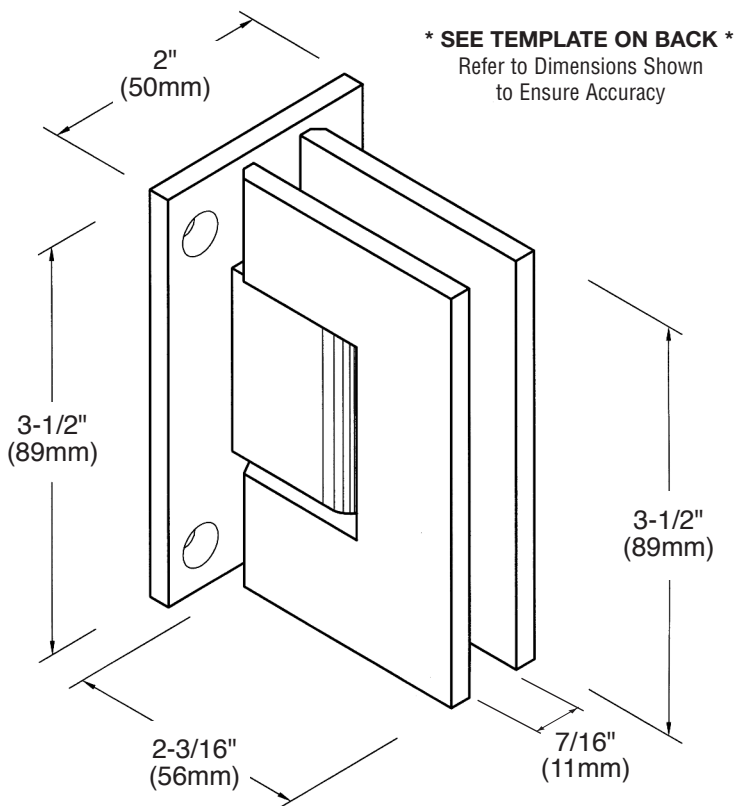
GENEVA

90° Glass-to-Glass Hinge

CAT No. GEN092



C.R. LAURENCE CO., INC.
PROFESSIONAL QUALITY



GENEVA

Wall Mount Hinge – Full Back Plate (Adjustable)

CAT No. GEN337

*Maximum Door Capacities	3/8" (10mm) Glass		1/2" (12mm) Glass	
	Weight	Width	Weight	Width
Using 2 Hinges	80 lbs.(36 kg)	28"(711mm)	80 lbs.(36 kg)	28"(711mm)
Using 3 Hinges	120 lbs.(54 kg)	32"(813mm)	120 lbs.(54 kg)	32"(813mm)

***NOTE:** Do not exceed either maximum weight or width when choosing proper quantity of hinges.

Important Information:

This hinge adjusts to accommodate a desired door angle up to 90°, after the door is installed. This is achieved by loosening the two Allen set screws (located in the center block), moving the door to the desired position, and then tightening the set screws. The self-centering position has now been changed to the angle you desire.

Specifications:

Glass Sizes: 3/8" (10mm) to 1/2" (12mm) thick tempered safety glass

Construction: Solid brass

Closing Type: Self-centering when within 15° of closing position

Cutout Required

Includes: Gaskets, screws and template

Use of Gaskets:

For 3/8" (10mm) Glass: Use one thick gasket on each side

For 1/2" (12mm) Glass: Use one thin gasket on each side

Recommendations:

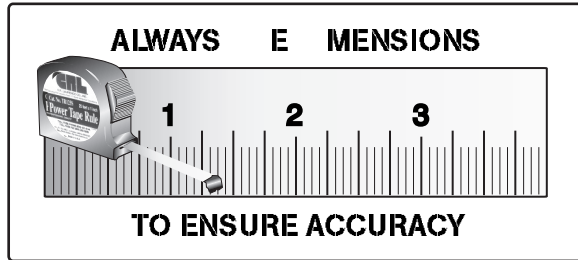
For public safety, we recommend the use of only tempered safety glass. Do not use power tools when installing these hinges.

Maintenance Guidelines:

- Our hinges are greased at the factory for quiet and trouble-free operation. If there is any squeaking that occurs after installation, put a drop of "3 in 1 Oil" (also known as "household oil") on the white nylon washer that the hinge body pivots on. This washer is the component that acts as a buffer, so the body of the hinge doesn't pivot directly on the brass center block. This solution doesn't require the disassembly of the hinge. **Note: Do not use spray lubricant on these hinges.** If the hinge has been disassembled, upon re-assembly, use white lithium grease to lubricate the interior mechanism.
- Never use an abrasive cleaner on the hardware. Many of the components are coated with a clear lacquer that will be irreparably damaged if subjected to harsh, abrasive chemicals. Advise your customer that drying the hardware with a clean, soft towel on a daily basis is the best way to maintain the hardware. If mineral deposits build-up, mix a couple of drops of a mild liquid soap (such as Ivory or a similar product) into a cup of warm water. Using a soft, non-abrasive cloth, clean the hardware. Rinse thoroughly with clean, warm water and dry.



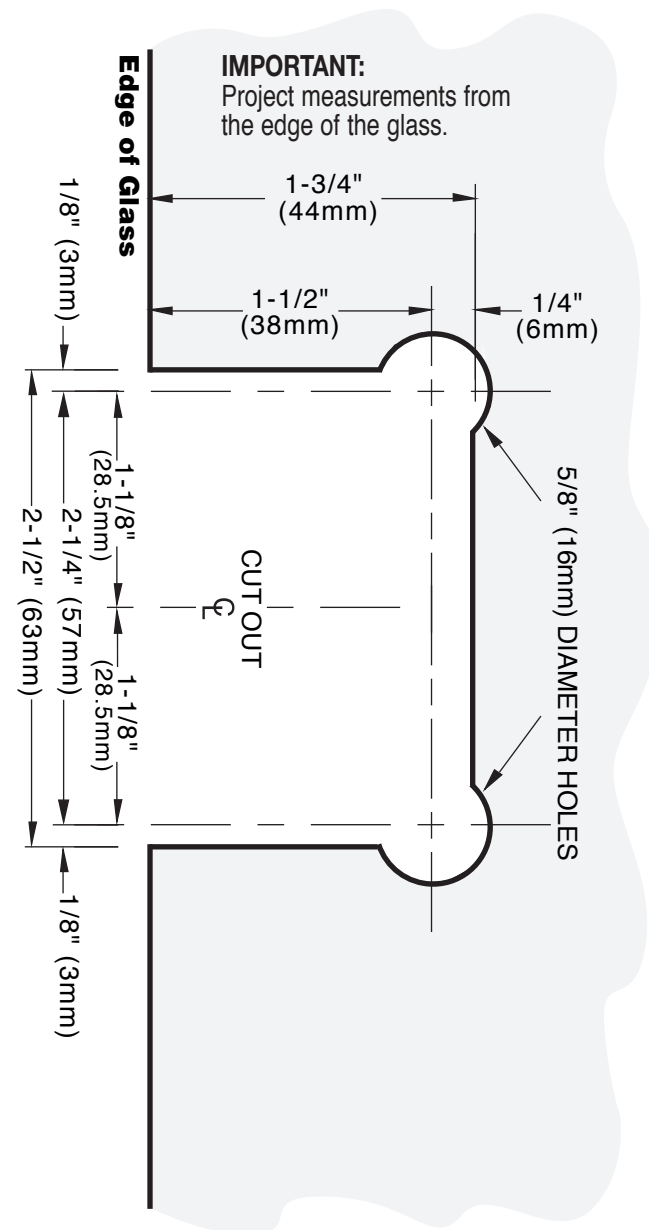
C.R. LAURENCE CO., INC.
PROFESSIONAL QUALITY



GENEVA

Wall Mount Hinge – Full Back Plate (Adjustable)

CAT No. GEN337



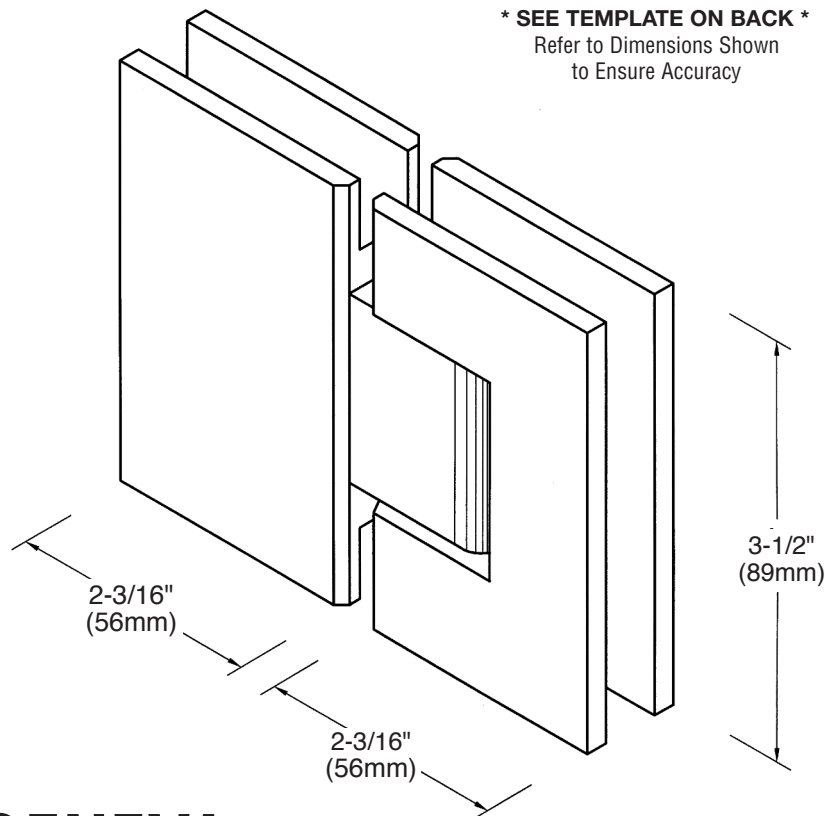
C.R. Laurence Co., Inc.
crlaurence.com

For technical assistance in the United States call toll free (800) 421-6144; from Canada call toll free (877) 421-6144; Outside the U.S. and Canada call (323) 588-1281. Ask for Tech Sales at Extension 7740. Toll free fax (800) 458-7496.



C.R. LAURENCE CO., INC.
PROFESSIONAL QUALITY

*** SEE TEMPLATE ON BACK ***
 Refer to Dimensions Shown
 to Ensure Accuracy



GENEVA

180° Glass-to-Glass Hinge (Adjustable)

CAT No. GEN380

*Maximum Door Capacities	3/8" (10mm) Glass		1/2" (12mm) Glass	
	Weight	Width	Weight	Width
Using 2 Hinges	80 lbs.(36 kg)	28"(711mm)	80 lbs.(36 kg)	28"(711mm)
Using 3 Hinges	120 lbs.(54 kg)	32"(813mm)	120 lbs.(54 kg)	32"(813mm)

***NOTE:** Do not exceed either maximum weight or width when choosing proper quantity of hinges.

Important Information:

This hinge adjusts to accommodate a desired door angle up to 90°, after the door is installed. This is achieved by loosening the two Allen set screws (located in the center block), moving the door to the desired position, and then tightening the set screws. The self-centering position has now been changed to the angle you desire.

Specifications:

Glass Sizes: 3/8" (10mm) to 1/2" (12mm) thick tempered safety glass
Construction: Solid brass
Closing Type: Self-centering when within 15° of closing position
Cutout Required
Includes: Gaskets, screws and template

Use of Gaskets:

For 3/8"(10mm) Glass: Use one thick gasket on each side
For 1/2"(12mm) Glass: Use one thin gasket on each side

Recommendations:

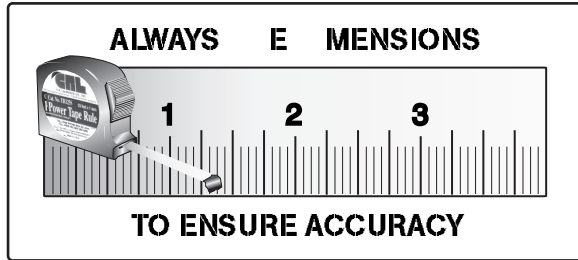
For public safety, we recommend the use of only tempered safety glass. Do not use power tools when installing these hinges.

Maintenance Guidelines:

- Our hinges are greased at the factory for quiet and trouble-free operation. If there is any squeaking that occurs after installation, put a drop of "3 in 1 Oil" (also known as "household oil") on the white nylon washer that the hinge body pivots on. This washer is the component that acts as a buffer, so the body of the hinge doesn't pivot directly on the brass center block. This solution doesn't require the disassembly of the hinge. **Note: Do not use spray lubricant on these hinges.** If the hinge has been disassembled, upon re-assembly, use white lithium grease to lubricate the interior mechanism.
- Never use an abrasive cleaner on the hardware. Many of the components are coated with a clear lacquer that will be irreparably damaged if subjected to harsh, abrasive chemicals. Advise your customer that drying the hardware with a clean, soft towel on a daily basis is the best way to maintain the hardware. If mineral deposits build-up, mix a couple of drops of a mild liquid soap (such as Ivory or a similar product) into a cup of warm water. Using a soft, non-abrasive cloth, clean the hardware. Rinse thoroughly with clean, warm water and dry.



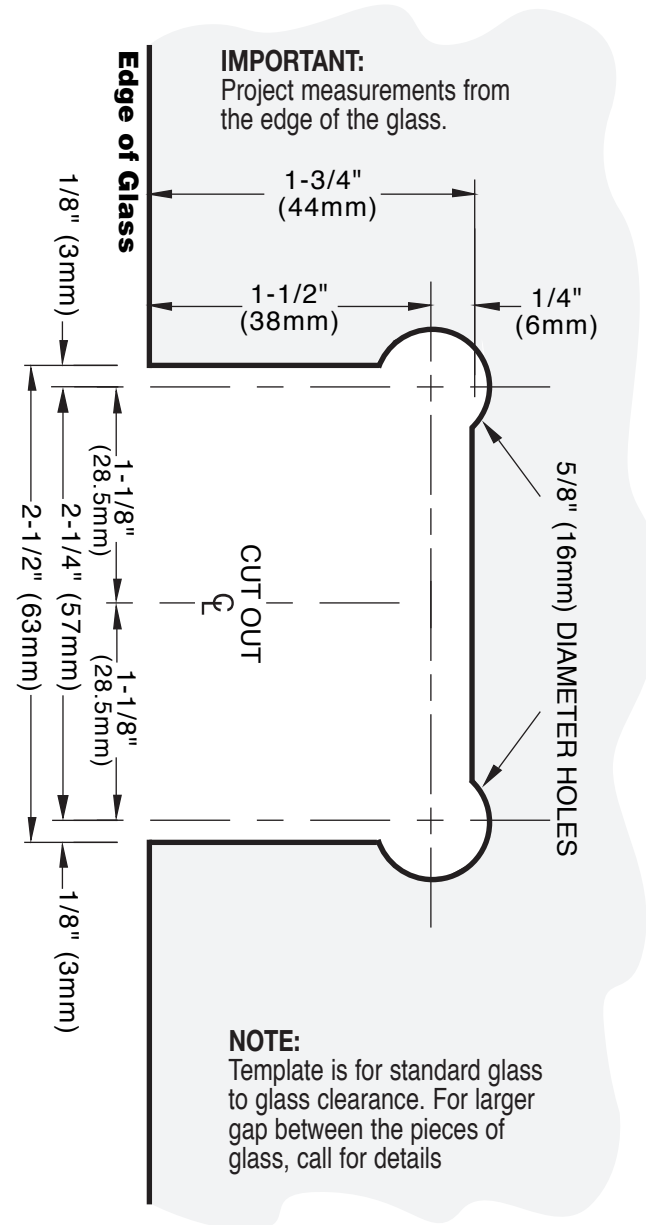
C.R. LAURENCE CO., INC.
PROFESSIONAL QUALITY



GENEVA

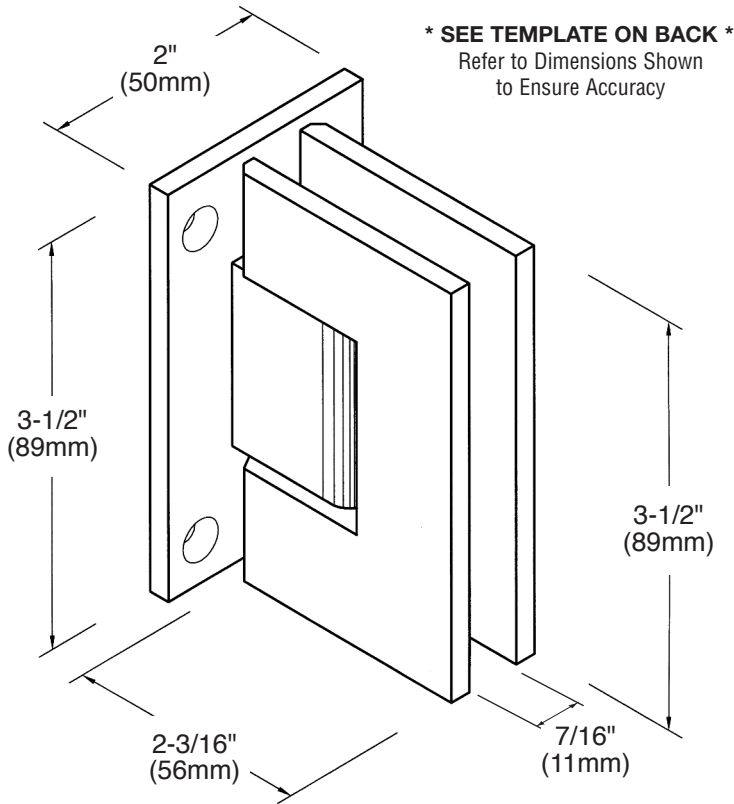
180° Glass-to-Glass Hinge (Adjustable)

CAT No. GEN380





C.R. LAURENCE CO., INC.
PROFESSIONAL QUALITY



GENEVA

Wall Mount Hinge – Full Back Plate (5° Offset)

CAT No. GEN537

*Maximum Door Capacities	3/8" (10mm) Glass		1/2" (12mm) Glass	
	Weight	Width	Weight	Width
Using 2 Hinges	80 lbs.(36 kg)	28"(711mm)	80 lbs.(36 kg)	28"(711mm)
Using 3 Hinges	120 lbs.(54 kg)	32"(813mm)	120 lbs.(54 kg)	32"(813mm)

*NOTE: Do not exceed either maximum weight or width when choosing proper quantity of hinges.

Important Information:

This hinge contains a dual degree pivot pin. The pivot pin is set for the door to close 5 degrees inwards from the normal closing position. You have the option of altering the closing position of the door 5 degrees (back to normal closing position) by utilizing the opposite side of the pivot pin, which has been pre-machined (see Section 3 of Cat. No. SDT20 Frameless Shower Door Guide for this procedure). Special order custom pivot pins are available (Cat.No. GENP1N) that can be machined at any angle up to 45 degrees.

Specifications:

- Glass Sizes:** 3/8" (10mm) to 1/2" (12mm) thick tempered safety glass
- Construction:** Solid brass
- Closing Type:** Self-centering when within 15° of closed position
- Cutout Required**
- Includes:** Gaskets, screws and template

Use of Gaskets:

- For 3/8" (10mm) Glass:** Use one thick gasket on each side
- For 1/2" (12mm) Glass:** Use one thin gasket on each side

Recommendations:

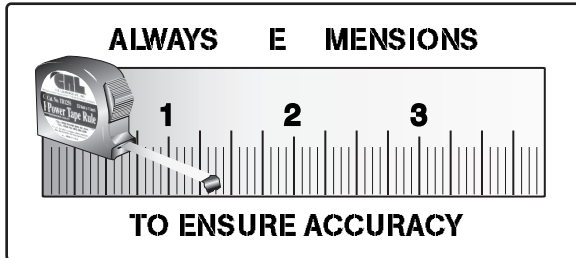
For public safety, we recommend the use of only tempered safety glass. Do not use power tools when installing these hinges.

Maintenance Guidelines:

- Our hinges are greased at the factory for quiet and trouble-free operation. If there is any squeaking that occurs after installation, put a drop of "3 in 1 Oil" (also known as "household oil") on the white nylon washer that the hinge body pivots on. This washer is the component that acts as a buffer, so the body of the hinge doesn't pivot directly on the brass center block. This solution doesn't require the disassembly of the hinge. **Note: Do not use spray lubricant on these hinges.** If the hinge has been disassembled, upon re-assembly, use white lithium grease to lubricate the interior mechanism.
- Never use an abrasive cleaner on the hardware. Many of the components are coated with a clear lacquer that will be irreparably damaged if subjected to harsh, abrasive chemicals. Advise your customer that drying the hardware with a clean, soft towel on a daily basis is the best way to maintain the hardware. If mineral deposits build-up, mix a couple of drops of a mild liquid soap (such as Ivory or a similar product) into a cup of warm water. Using a soft, non-abrasive cloth, clean the hardware. Rinse thoroughly with clean, warm water and dry.



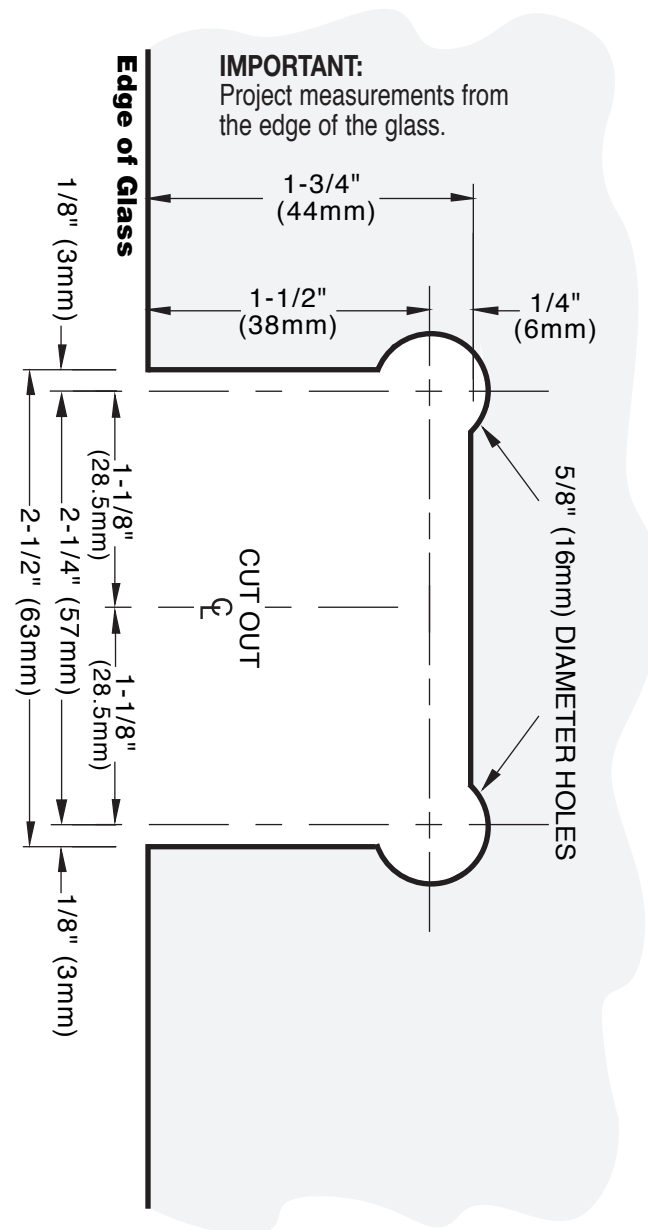
C.R. LAURENCE CO., INC.
PROFESSIONAL QUALITY



GENEVA

Wall Mount Hinge – Full Back Plate (5° Offset)

CAT No. GEN537



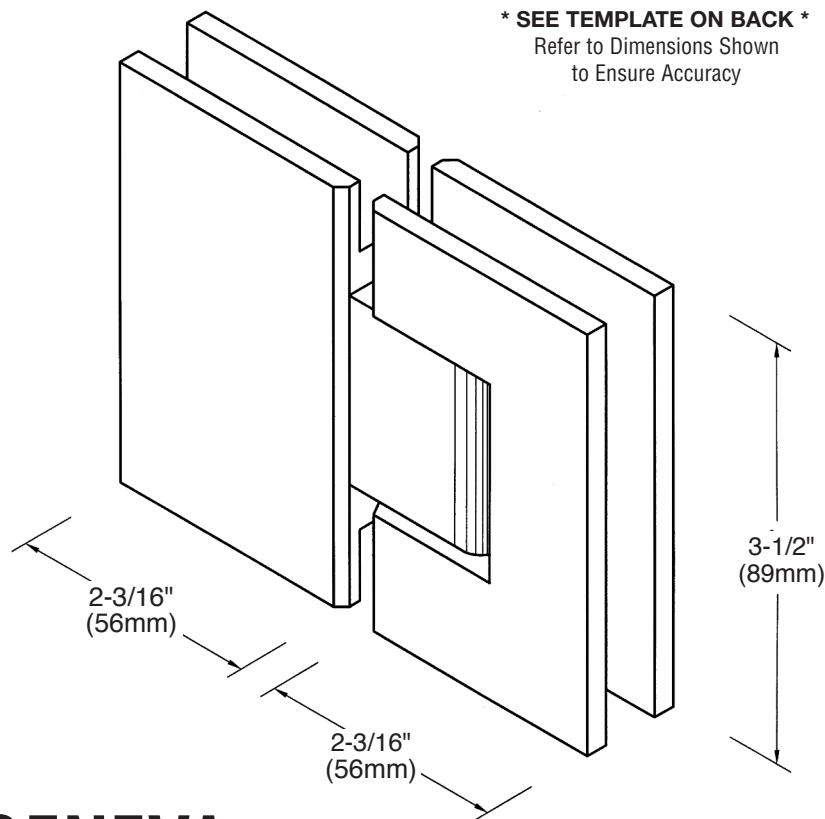
C.R. Laurence Co., Inc.
 crlaurence.com

For technical assistance in the United States call toll free (800) 421-6144; from Canada call toll free (877) 421-6144; Outside the U.S. and Canada call (323) 588-1281. Ask for Tech Sales at Extension 7740. Toll free fax (800) 458-7496.



C.R. LAURENCE CO., INC.
PROFESSIONAL QUALITY

*** SEE TEMPLATE ON BACK ***
Refer to Dimensions Shown
to Ensure Accuracy



GENEVA

180° Glass-to-Glass Hinge (5° Offset)

CAT No. GEN580

*Maximum Door Capacities	3/8" (10mm) Glass		1/2" (12mm) Glass	
	Weight	Width	Weight	Width
Using 2 Hinges	80 lbs.(36 kg)	28"(711mm)	80 lbs.(36 kg)	28"(711mm)
Using 3 Hinges	120 lbs.(54 kg)	32"(813mm)	120 lbs.(54 kg)	32"(813mm)

***NOTE:** Do not exceed either maximum weight or width when choosing proper quantity of hinges.

Important Information:

This hinge contains a dual degree pivot pin. The pivot pin is set for the door to close 5 degrees inwards from the normal closing position. You have the option of altering the closing position of the door 5 degrees (back to normal closing position) by utilizing the opposite side of the pivot pin, which has been pre-machined (see Section 3 of Cat. No. SDT20 Frameless Shower Door Guide for this procedure). Special order custom pivot pins are available (Cat.No. GENP1N) that can be machined at any angle up to 45 degrees.

Specifications:

Glass Sizes: 3/8" (10mm) to 1/2" (12mm) thick tempered safety glass
Construction: Solid brass
Closing Type: Self-centering when within 15° of closed position
Cutout Required
Includes: Gaskets, screws and template

Use of Gaskets:

For 3/8"(10mm) Glass: Use one thick gasket on each side
For 1/2"(12mm) Glass: Use one thin gasket on each side

Recommendations:

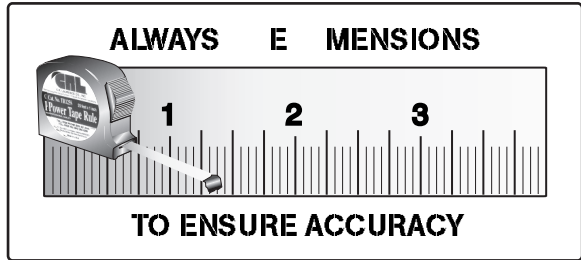
For public safety, we recommend the use of only tempered safety glass. Do not use power tools when installing these hinges.

Maintenance Guidelines:

- Our hinges are greased at the factory for quiet and trouble-free operation. If there is any squeaking that occurs after installation, put a drop of "3 in 1 Oil" (also known as "household oil") on the white nylon washer that the hinge body pivots on. This washer is the component that acts as a buffer, so the body of the hinge doesn't pivot directly on the brass center block. This solution doesn't require the disassembly of the hinge. **Note: Do not use spray lubricant on these hinges.** If the hinge has been disassembled, upon re-assembly, use white lithium grease to lubricate the interior mechanism.
- Never use an abrasive cleaner on the hardware. Many of the components are coated with a clear lacquer that will be irreparably damaged if subjected to harsh, abrasive chemicals. Advise your customer that drying the hardware with a clean, soft towel on a daily basis is the best way to maintain the hardware. If mineral deposits build-up, mix a couple of drops of a mild liquid soap (such as Ivory or a similar product) into a cup of warm water. Using a soft, non-abrasive cloth, clean the hardware. Rinse thoroughly with clean, warm water and dry.



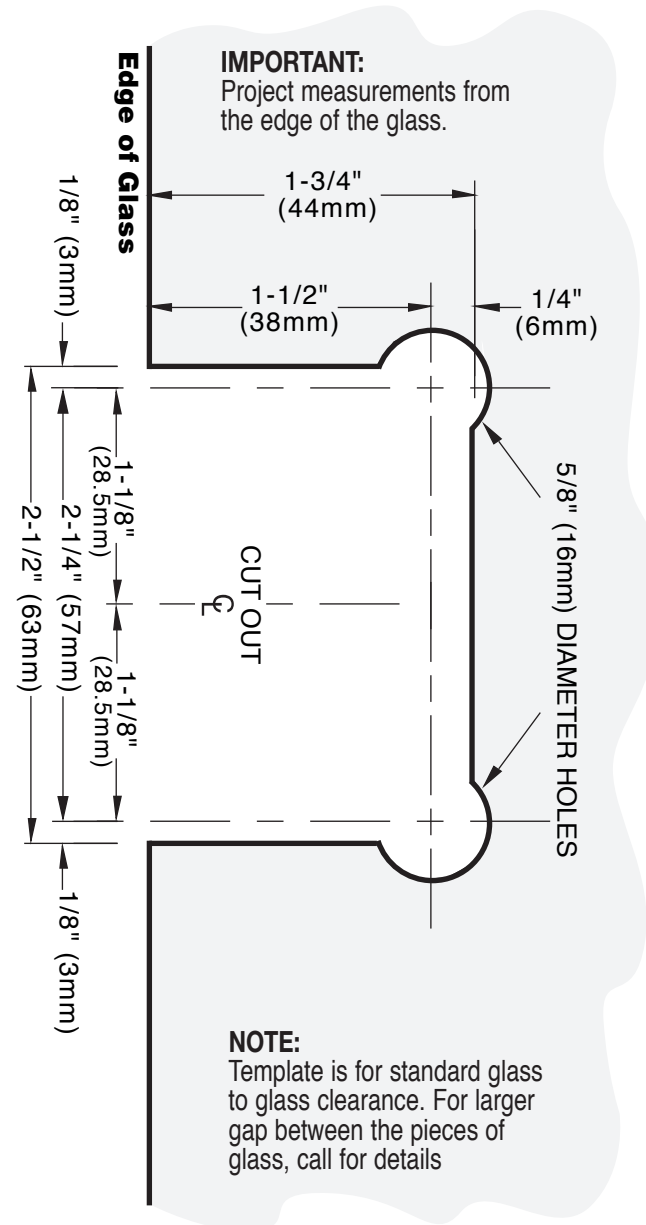
C.R. LAURENCE CO., INC.
PROFESSIONAL QUALITY



GENEVA

180° Glass-to-Glass Hinge (5° Offset)

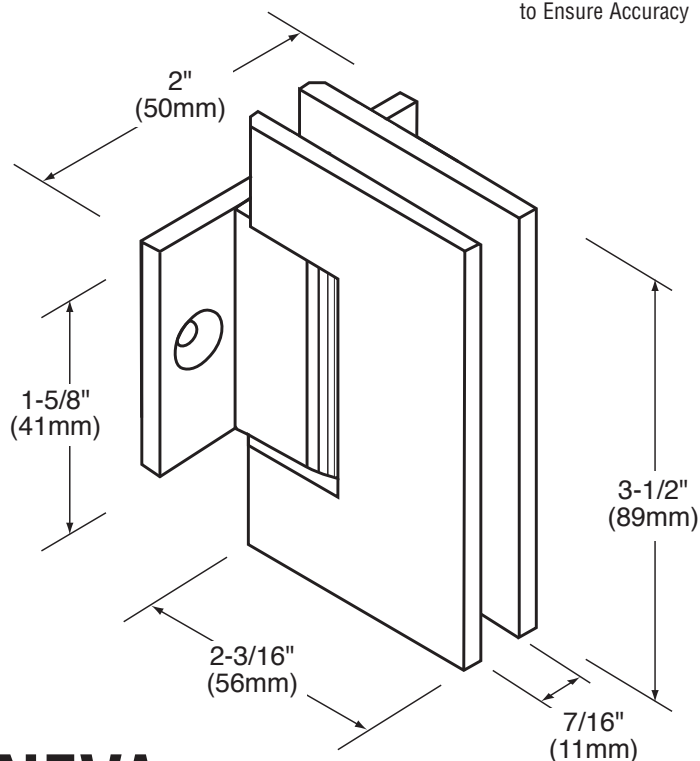
CAT No. GEN580





C.R. LAURENCE CO., INC.
PROFESSIONAL QUALITY

*** SEE TEMPLATE ON BACK ***
Refer to Dimensions Shown
to Ensure Accuracy



GENEVA

Pony Wall Mount Hinge

CAT No. GEN280

*Maximum Door Capacities	3/8" (10mm) Glass		1/2" (12mm) Glass	
	Weight	Width	Weight	Width
Using 2 Hinges	80 lbs.(36 kg)	28"(711mm)	80 lbs.(36 kg)	28"(711mm)
Using 3 Hinges	120 lbs.(54 kg)	32"(813mm)	120 lbs.(54 kg)	32"(813mm)

***NOTE:** Do not exceed either maximum weight or width when choosing proper quantity of hinges.

Important Information:

This hinge contains a dual degree pivot pin. The pivot pin is set for normal door closing position. You have the option of altering the closing position of the door 5 degrees inward by utilizing the opposite side of the pivot pin, which has been pre-machined (see Section 3 of Cat. No. SDT20 Frameless Shower Door Guide for this procedure). Special order custom pivot pins are available (Cat.No. GENP1N) that can be machined at any angle up to 45 degrees.

Specifications:

Glass Sizes: 3/8" (10mm) to 1/2" (12mm) thick tempered safety glass

Construction: Solid brass

Closing Type: Self-centering when within 15° of closed position

Cutout Required

Includes: Gaskets, screws and template

Use of Gaskets:

For 3/8" (10mm) Glass: Use one thick gasket on each side

For 1/2" (12mm) Glass: Use one thin gasket on each side

Recommendations:

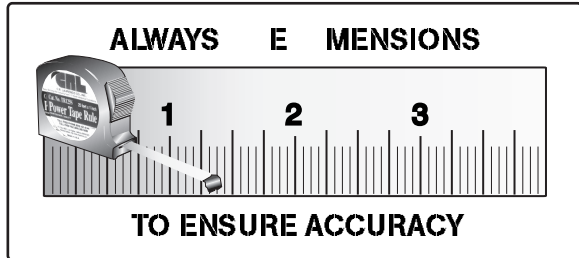
For public safety, we recommend the use of only tempered safety glass. Do not use power tools when installing these hinges.

Maintenance Guidelines:

- Our hinges are greased at the factory for quiet and trouble-free operation. If there is any squeaking that occurs after installation, put a drop of "3 in 1 Oil" (also known as "household oil") on the white nylon washer that the hinge body pivots on. This washer is the component that acts as a buffer, so the body of the hinge doesn't pivot directly on the brass center block. This solution doesn't require the disassembly of the hinge. **Note: Do not use spray lubricant on these hinges.** If the hinge has been disassembled, upon re-assembly, use white lithium grease to lubricate the interior mechanism.
- Never use an abrasive cleaner on the hardware. Many of the components are coated with a clear lacquer that will be irreparably damaged if subjected to harsh, abrasive chemicals. Advise your customer that drying the hardware with a clean, soft towel on a daily basis is the best way to maintain the hardware. If mineral deposits build-up, mix a couple of drops of a mild liquid soap (such as Ivory or a similar product) into a cup of warm water. Using a soft, non-abrasive cloth, clean the hardware. Rinse thoroughly with clean, warm water and dry.



C.R. LAURENCE CO., INC.
PROFESSIONAL QUALITY

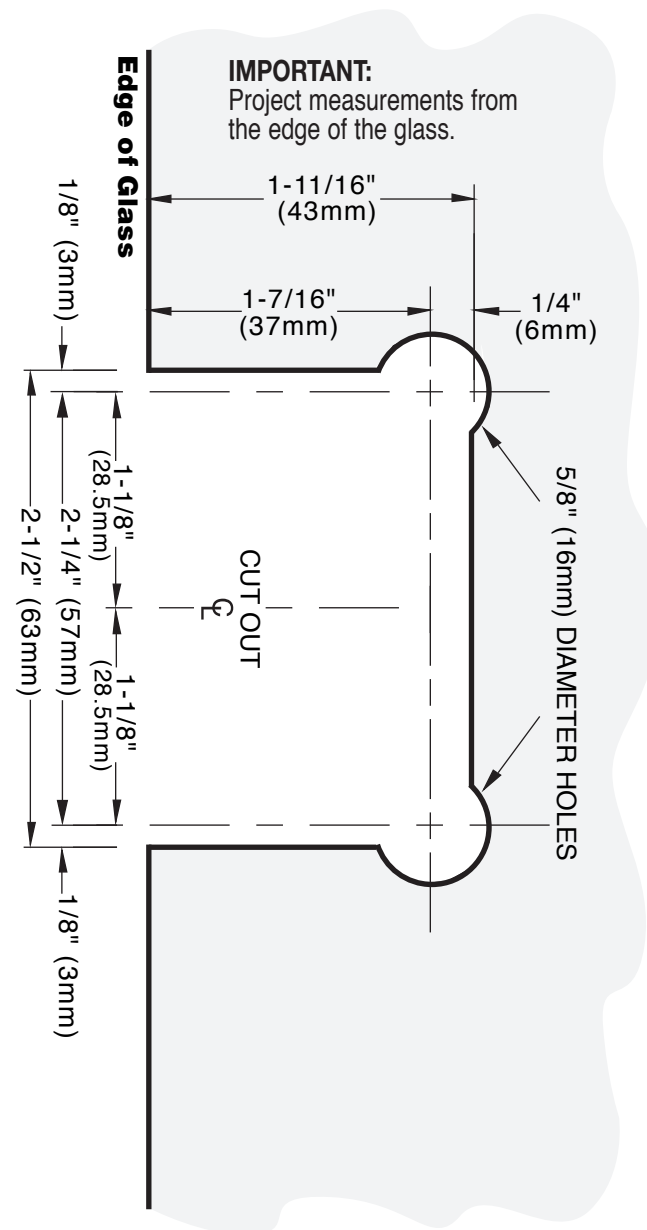


GENEVA

Pony Wall Mount Hinge
CAT No. GEN280

C.R. Laurence Co., Inc.
crlaurence.com

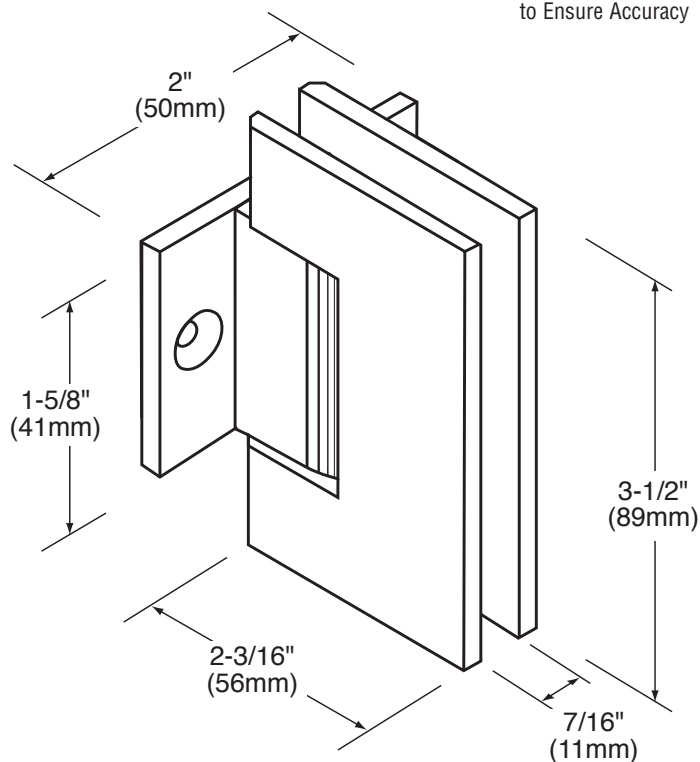
For technical assistance in the United States call toll free (800) 421-6144; from Canada call toll free (877) 421-6144; Outside the U.S. and Canada call (323) 588-1281. Ask for Tech Sales at Extension 7740. Toll free fax (800) 458-7496.





C.R. LAURENCE CO., INC.
PROFESSIONAL QUALITY

*** SEE TEMPLATE ON BACK ***
Refer to Dimensions Shown
to Ensure Accuracy



GENEVA

Pony Wall Mount Hinge – (For use with 135° Pony Walls)

CAT No. GEN245

* Maximum Door Capacities	3/8" (10mm) Glass		1/2" (12mm) Glass	
	Weight	Width	Weight	Width
Using 2 Hinges	80 lbs.(36 kg)	28"(711mm)	80 lbs.(36 kg)	28"(711mm)
Using 3 Hinges	120 lbs.(54 kg)	32"(813mm)	120 lbs.(54 kg)	32"(813mm)

***NOTE:** Do not exceed either maximum weight or width when choosing proper quantity of hinges.

Important Information:

This hinge contains a dual degree pivot pin. The pivot pin is set for normal door closing position. You have the option of altering the closing position of the door 5 degrees inward by utilizing the opposite side of the pivot pin, which has been pre-machined (see Section 3 of Cat. No. SDT20 Frameless Shower Door Guide for this procedure). Special order custom pivot pins are available (Cat.No. GENP1N) that can be machined at any angle up to 45 degrees.

Specifications:

Glass Sizes: 3/8" (10mm) to 1/2" (12mm) thick tempered safety glass

Construction: Solid brass

Closing Type: Self-centering when within 15° of closed position

Cutout Required

Includes: Gaskets, screws and template

Use of Gaskets:

For 3/8" (10mm) Glass: Use one thick gasket on each side

For 1/2" (12mm) Glass: Use one thin gasket on each side

Recommendations:

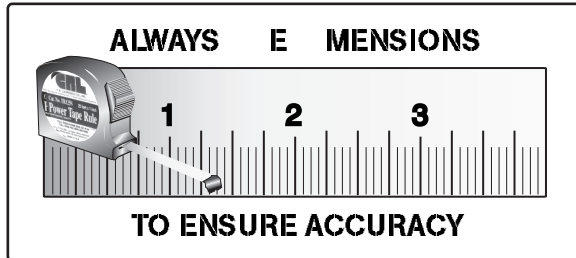
For public safety, we recommend the use of only tempered safety glass. Do not use power tools when installing these hinges.

Maintenance Guidelines:

- Our hinges are greased at the factory for quiet and trouble-free operation. If there is any squeaking that occurs after installation, put a drop of "3 in 1 Oil" (also known as "household oil") on the white nylon washer that the hinge body pivots on. This washer is the component that acts as a buffer, so the body of the hinge doesn't pivot directly on the brass center block. This solution doesn't require the disassembly of the hinge. **Note: Do not use spray lubricant on these hinges.** If the hinge has been disassembled, upon re-assembly, use white lithium grease to lubricate the interior mechanism.
- Never use an abrasive cleaner on the hardware. Many of the components are coated with a clear lacquer that will be irreparably damaged if subjected to harsh, abrasive chemicals. Advise your customer that drying the hardware with a clean, soft towel on a daily basis is the best way to maintain the hardware. If mineral deposits build-up, mix a couple of drops of a mild liquid soap (such as Ivory or a similar product) into a cup of warm water. Using a soft, non-abrasive cloth, clean the hardware. Rinse thoroughly with clean, warm water and dry.



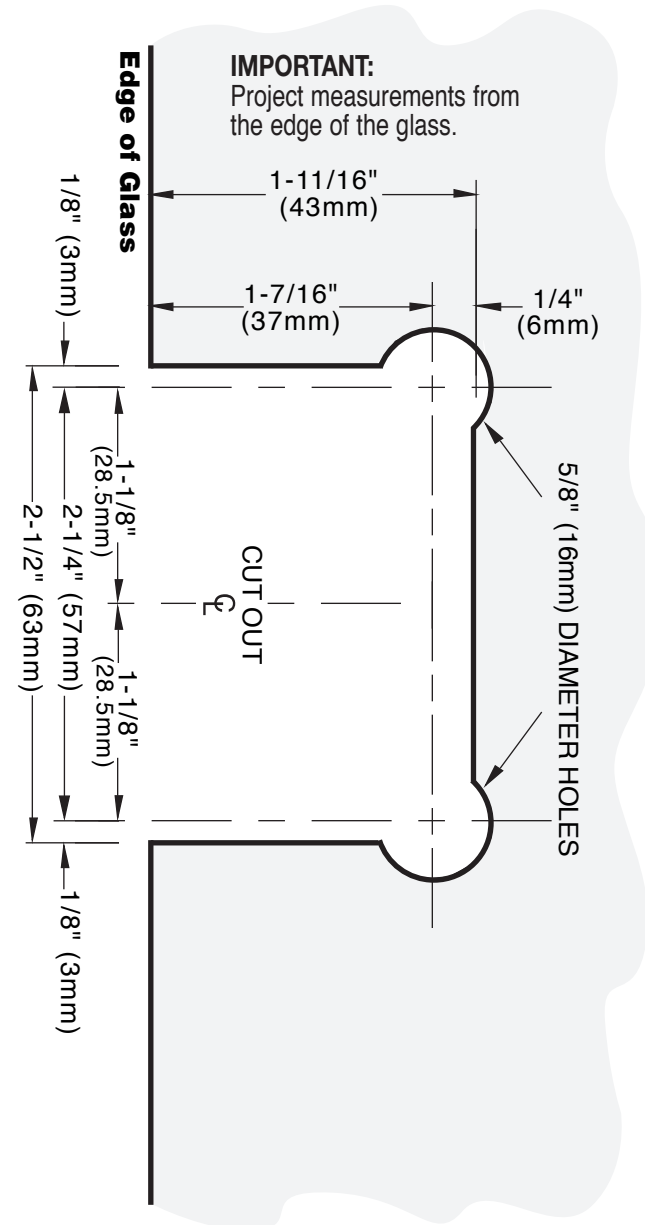
C.R. LAURENCE CO., INC.
PROFESSIONAL QUALITY



GENEVA

Pony Wall Mount Hinge – (For use with 135° Pony Walls)

CAT No. GEN245

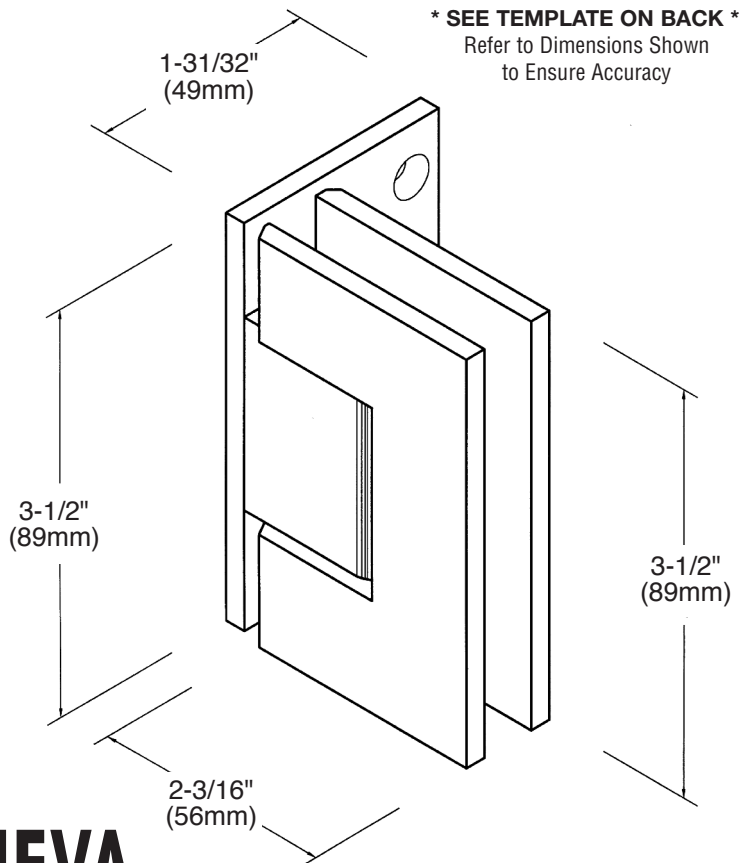


C.R. Laurence Co., Inc.
 crlaurence.com

For technical assistance in the United States call toll free (800) 421-6144; from Canada call toll free (877) 421-6144; Outside the U.S. and Canada call (323) 588-1281. Ask for Tech Sales at Extension 7740. Toll free fax (800) 458-7496.



C.R. LAURENCE CO., INC.
PROFESSIONAL QUALITY



Important Information:

This hinge contains a dual degree pivot pin. The pivot pin is set for the door to close 5 degrees inwards from the normal closing position. You have the option of altering the closing position of the door 5 degrees (back to normal closing position) by utilizing the opposite side of the pivot pin, which has been pre-machined (see Section 3 of Cat. No. SDT20 Frameless Shower Door Guide for this procedure). Special order custom pivot pins are available (Cat. No. GENP1N) that can be machined at any angle up to 45 degrees.

Specifications:

Glass Sizes: 3/8" (10mm) to 1/2" (12mm) thick tempered safety glass
Construction: Solid brass
Closing Type: Self-centering when within 15° of closed position
Cutout Required
Includes: Gaskets, screws and template

Use of Gaskets:

For 3/8"(10mm) Glass: Use one thick gasket on each side
For 1/2"(12mm) Glass: Use one thin gasket on each side

Recommendations:

For public safety, we recommend the use of only tempered safety glass. Do not use power tools when installing these hinges.

Maintenance Guidelines:

- Our hinges are greased at the factory for quiet and trouble-free operation. If there is any squeaking that occurs after installation, put a drop of "3 in 1 Oil" (also known as "household oil") on the white nylon washer that the hinge body pivots on. This washer is the component that acts as a buffer, so the body of the hinge doesn't pivot directly on the brass center block. This solution doesn't require the disassembly of the hinge. **Note: Do not use spray lubricant on these hinges.** If the hinge has been disassembled, upon re-assembly, use white lithium grease to lubricate the interior mechanism.
- Never use an abrasive cleaner on the hardware. Many of the components are coated with a clear lacquer that will be irreparably damaged if subjected to harsh, abrasive chemicals. Advise your customer that drying the hardware with a clean, soft towel on a daily basis is the best way to maintain the hardware. If mineral deposits build-up, mix a couple of drops of a mild liquid soap (such as Ivory or a similar product) into a cup of warm water. Using a soft, non-abrasive cloth, clean the hardware. Rinse thoroughly with clean, warm water and dry.

GENEVA

Wall Mount Hinge – Offset Back Plate (5° Offset)

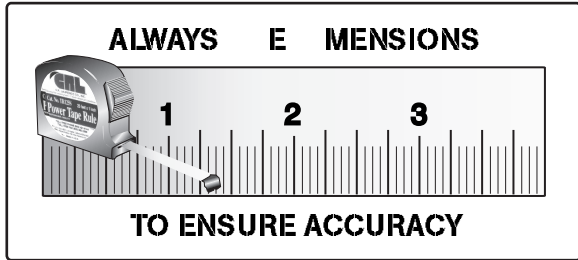
CAT No. GEN544

*Maximum Door Capacities	3/8" (10mm) Glass		1/2" (12mm) Glass	
	Weight	Width	Weight	Width
Using 2 Hinges	80 lbs.(36 kg)	28"(711mm)	80 lbs.(36 kg)	28"(711mm)
Using 3 Hinges	120 lbs.(54 kg)	32"(813mm)	120 lbs.(54 kg)	32"(813mm)

*NOTE: Do not exceed either maximum weight or width when choosing proper quantity of hinges.



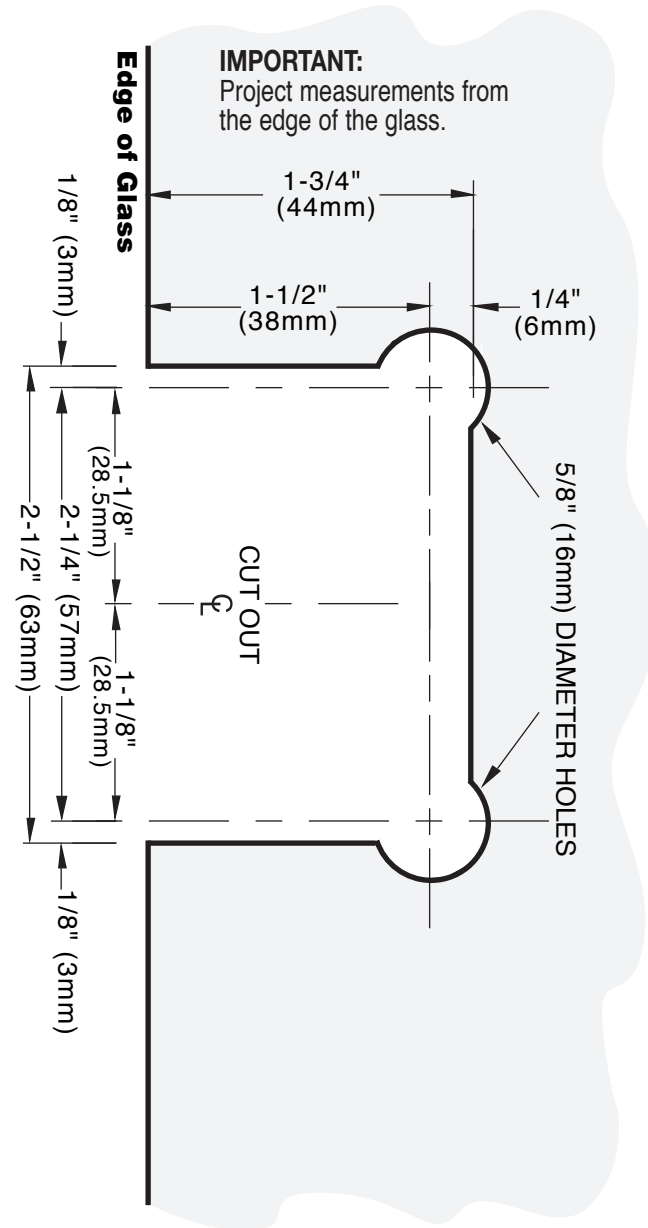
C.R. LAURENCE CO., INC.
PROFESSIONAL QUALITY



GENEVA

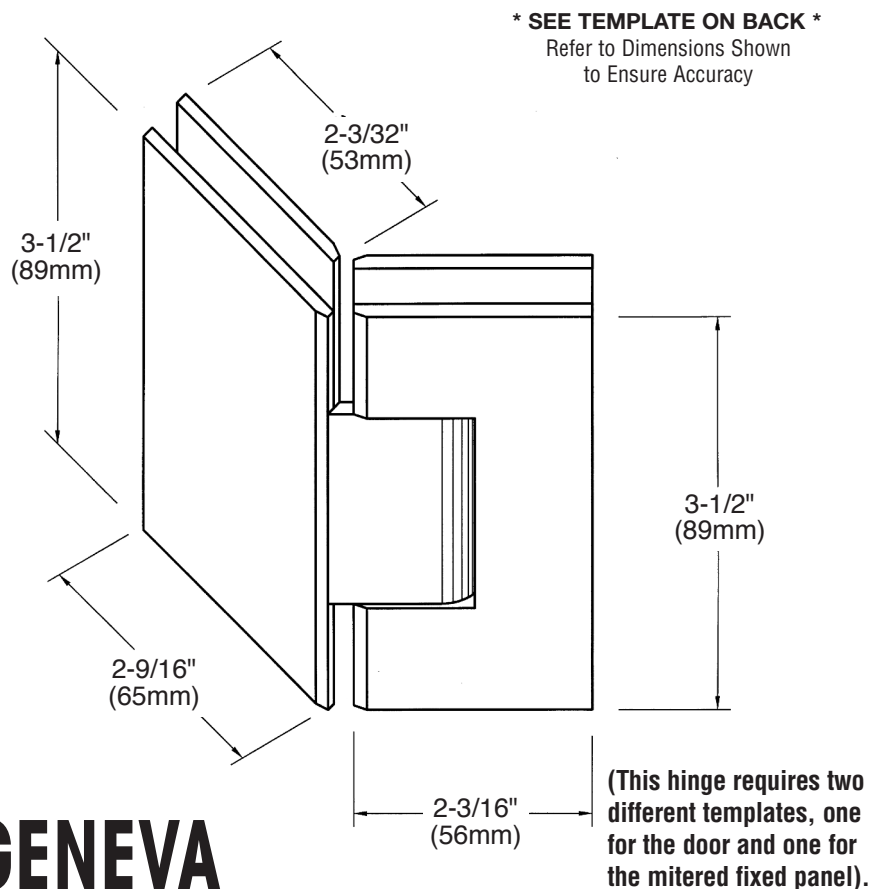
Wall Mount Hinge – Offset Back Plate (5° Offset)

CAT No. GEN544



C.R. Laurence Co., Inc.
 crlaurence.com

For technical assistance in the United States call toll free (800) 421-6144; from Canada call toll free (877) 421-6144; Outside the U.S. and Canada call (323) 588-1281. Ask for Tech Sales at Extension 7740. Toll free fax (800) 458-7496.



GENEVA

135° Glass-to-Glass Hinge (5° Offset)

CAT No. GEN545

* Maximum Door Capacities	3/8" (10mm) Glass		1/2" (12mm) Glass	
	Weight	Width	Weight	Width
Using 2 Hinges	80 lbs.(36 kg)	28"(711mm)	80 lbs.(36 kg)	28"(711mm)
Using 3 Hinges	120 lbs.(54 kg)	32"(813mm)	120 lbs.(54 kg)	32"(813mm)

*NOTE: Do not exceed either maximum weight or width when choosing proper quantity of hinges.

Important Information:

- 1) This hinge contains a dual degree pivot pin. The pivot pin is set for the door to close 5 degrees inwards from the normal closing position. You have the option of altering the closing position of the door 5 degrees (back to normal closing position) by utilizing the opposite side of the pivot pin, which has been pre-machined (see Section 3 of Cat. No. SDT20 Frameless Shower Door Guide for this procedure). Special order custom pivot pins are available (Cat. No. GENP1N) that can be machined at any angle up to 45 degrees.
- 2) The fixed panel measurements must be taken from the outside of the miter.

Specifications:

- Glass Sizes:** 3/8" (10mm) to 1/2" (12mm) thick tempered safety glass
Construction: Solid brass
Closing Type: Self-centering when within 15° of closed position
Cutout Required
Includes: Gaskets, screws and template

Use of Gaskets:

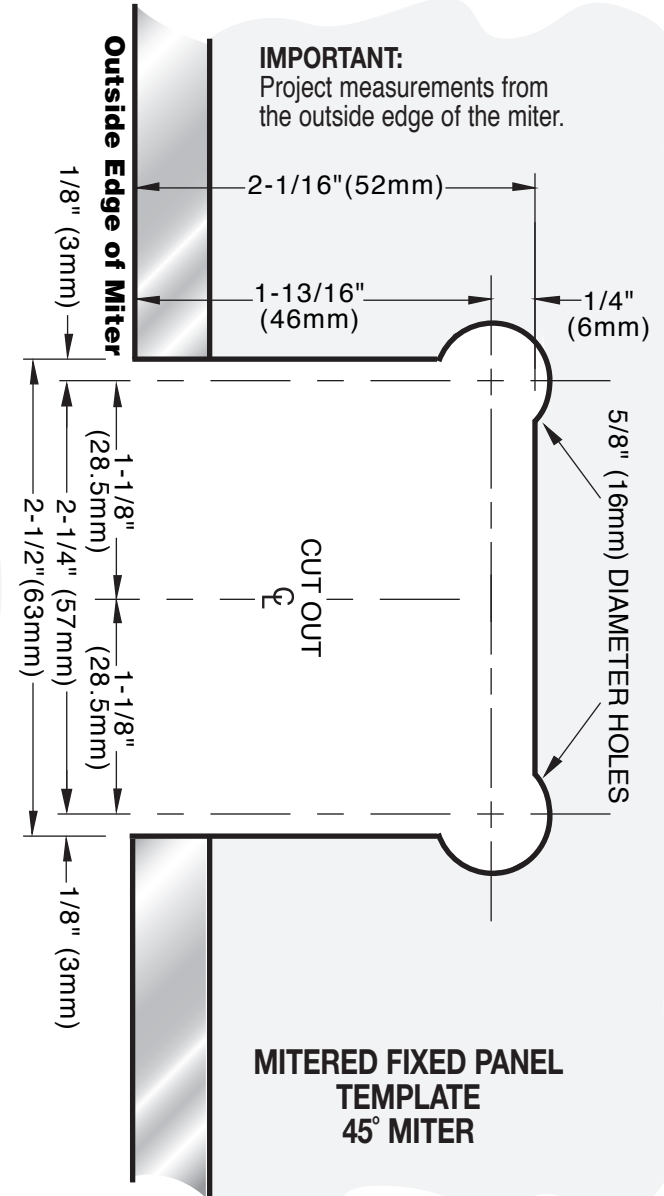
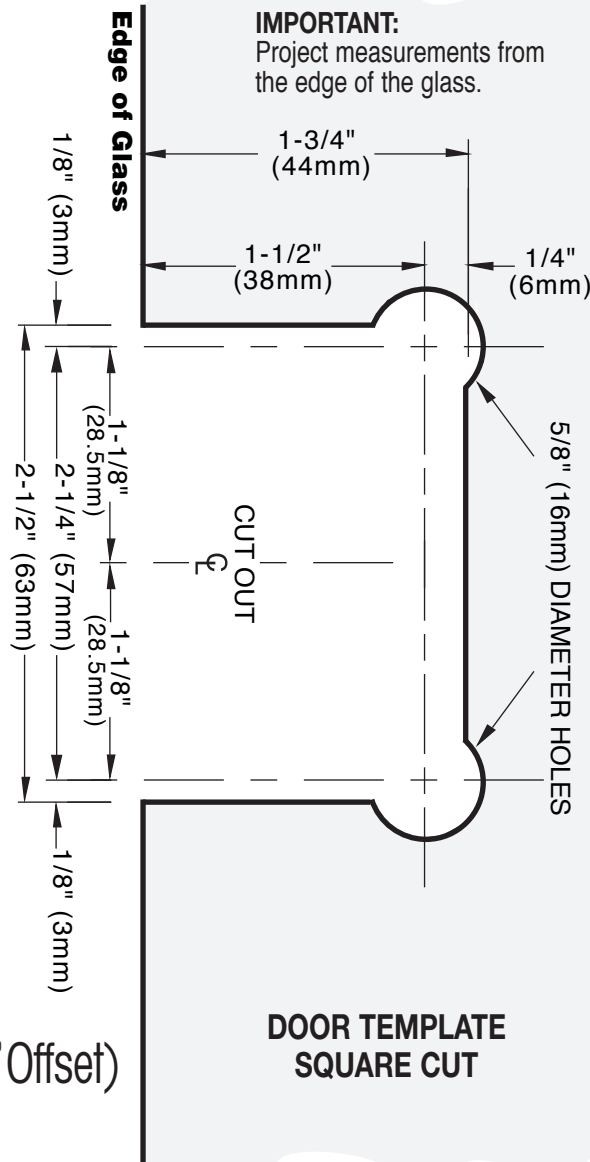
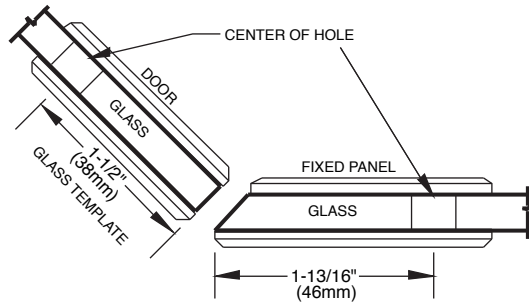
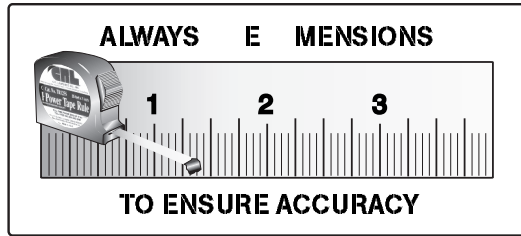
- For 3/8"(10mm) Glass:** Use one thick gasket on each side
For 1/2"(12mm) Glass: Use one thin gasket on each side

Recommendations:

For public safety, we recommend the use of only tempered safety glass. Do not use power tools when installing these hinges.

Maintenance Guidelines:

- Our hinges are greased at the factory for quiet and trouble-free operation. If there is any squeaking that occurs after installation, put a drop of "3 in 1 Oil" (also known as "household oil") on the white nylon washer that the hinge body pivots on. This washer is the component that acts as a buffer, so the body of the hinge doesn't pivot directly on the brass center block. This solution doesn't require the disassembly of the hinge.
Note: Do not use spray lubricant on these hinges. If the hinge has been disassembled, upon re-assembly, use white lithium grease to lubricate the interior mechanism.
- Never use an abrasive cleaner on the hardware. Many of the components are coated with a clear lacquer that will be irreparably damaged if subjected to harsh, abrasive chemicals. Advise your customer that drying the hardware with a clean, soft towel on a daily basis is the best way to maintain the hardware. If mineral deposits build-up, mix a couple of drops of a mild liquid soap (such as Ivory or a similar product) into a cup of warm water. Using a soft, non-abrasive cloth, clean the hardware. Rinse thoroughly with clean, warm water and dry.



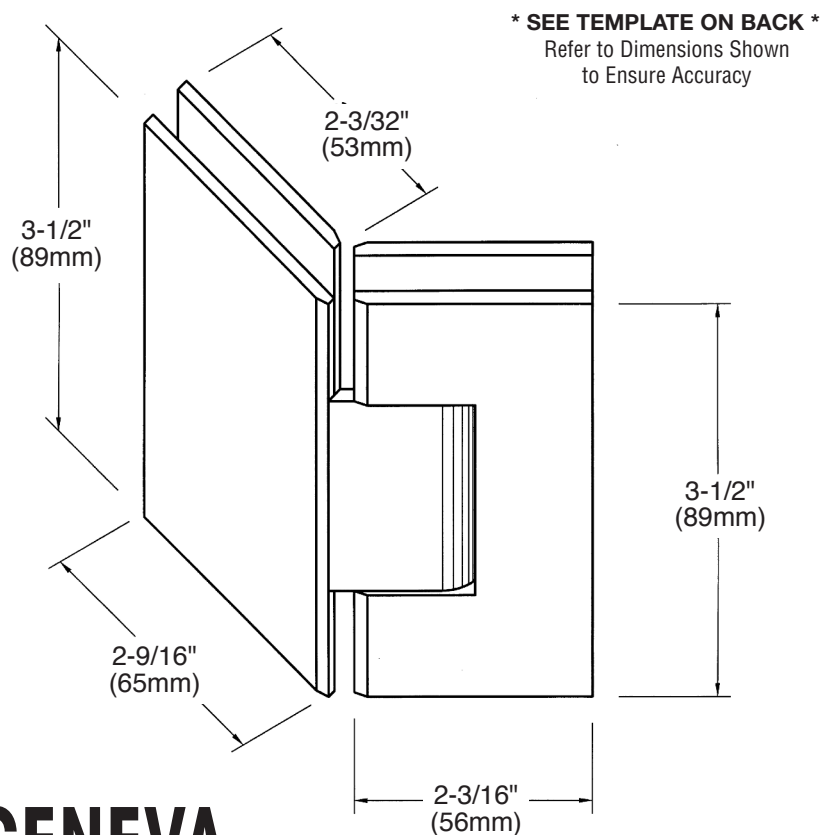
GENEVA

135° Glass-to-Glass Hinge (5° Offset)

CAT No. GEN545



C.R. LAURENCE CO., INC.
PROFESSIONAL QUALITY



GENEVA

135° Glass-to-Glass Hinge

CAT No. GEN345 (Adjustable)

(This hinge requires two different templates, one for the door and one for the mitered fixed panel).

* Maximum Door Capacities	3/8" (10mm) Glass		1/2" (12mm) Glass	
	Weight	Width	Weight	Width
Using 2 Hinges	80 lbs.(36 kg)	28"(711mm)	80 lbs.(36 kg)	28"(711mm)
Using 3 Hinges	120 lbs.(54 kg)	32"(813mm)	120 lbs.(54 kg)	32"(813mm)

*NOTE: Do not exceed either maximum weight or width when choosing proper quantity of hinges.

Important Information:

- 1) This hinge adjusts to accommodate the desired door closing position up to 90°, after the door is installed. This is achieved by loosening the Allen set screws (located on the rear of center block), moving the door to the desired closing position, and then tightening the screws. The precise closing position has now been changed to the angle you desire.
- 2) The fixed panel measurements must be taken from the outside of the miter.

Specifications:

Glass Sizes: 3/8" (10mm) to 1/2" (12mm) thick tempered safety glass
Construction: Solid brass
Closing Type: **Not** Self-centering when within 15° of closed position
Cutout Required
Includes: Gaskets, screws and template

Use of Gaskets:

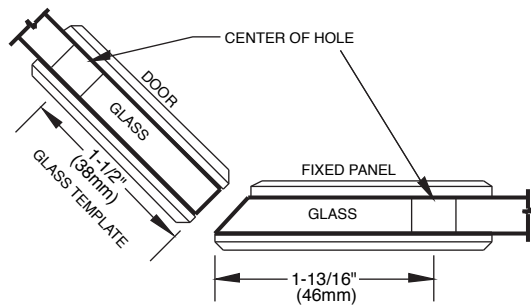
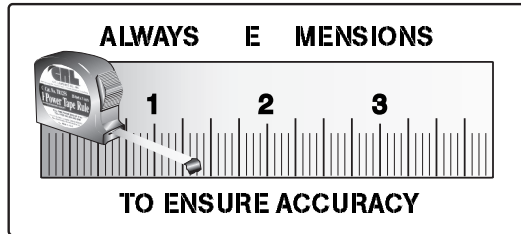
For 3/8"(10mm) Glass: Use one thick gasket on each side
For 1/2"(12mm) Glass: Use one thin gasket on each side

Recommendations:

For public safety, we recommend the use of only tempered safety glass. Do not use power tools when installing these hinges.

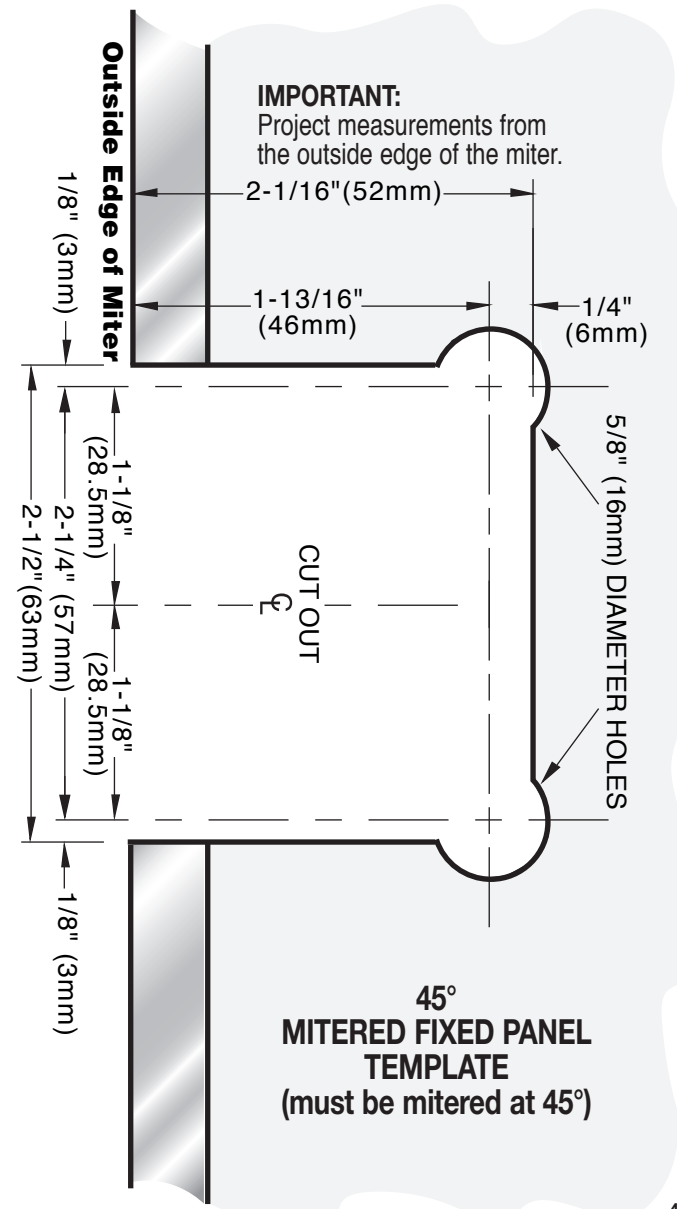
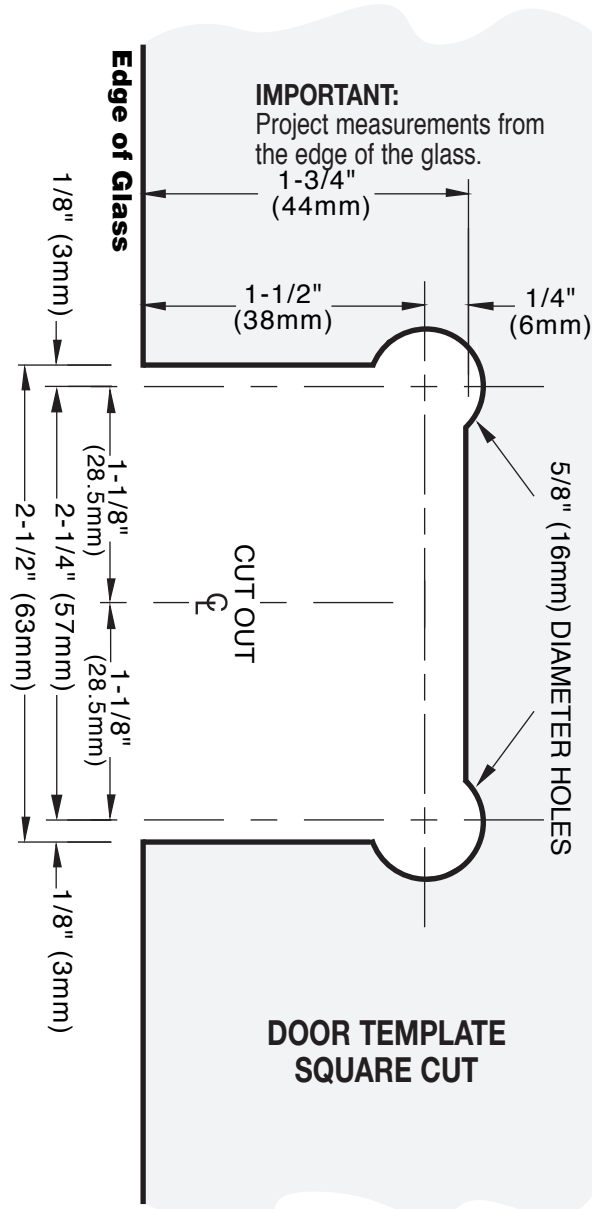
Maintenance Guidelines:

- Our hinges are greased at the factory for quiet and trouble-free operation. If there is any squeaking that occurs after installation, put a drop of "3 in 1 Oil" (also known as "household oil") on the white nylon washer that the hinge body pivots on. This washer is the component that acts as a buffer, so the body of the hinge doesn't pivot directly on the brass center block. This solution doesn't require the disassembly of the hinge. **Note: Do not use spray lubricant on these hinges.** If the hinge has been disassembled, upon re-assembly, use white lithium grease to lubricate the interior mechanism.
- Never use an abrasive cleaner on the hardware. Many of the components are coated with a clear lacquer that will be irreparably damaged if subjected to harsh, abrasive chemicals. Advise your customer that drying the hardware with a clean, soft towel on a daily basis is the best way to maintain the hardware. If mineral deposits build-up, mix a couple of drops of a mild liquid soap (such as Ivory or a similar product) into a cup of warm water. Using a soft, non-abrasive cloth, clean the hardware. Rinse thoroughly with clean, warm water and dry.



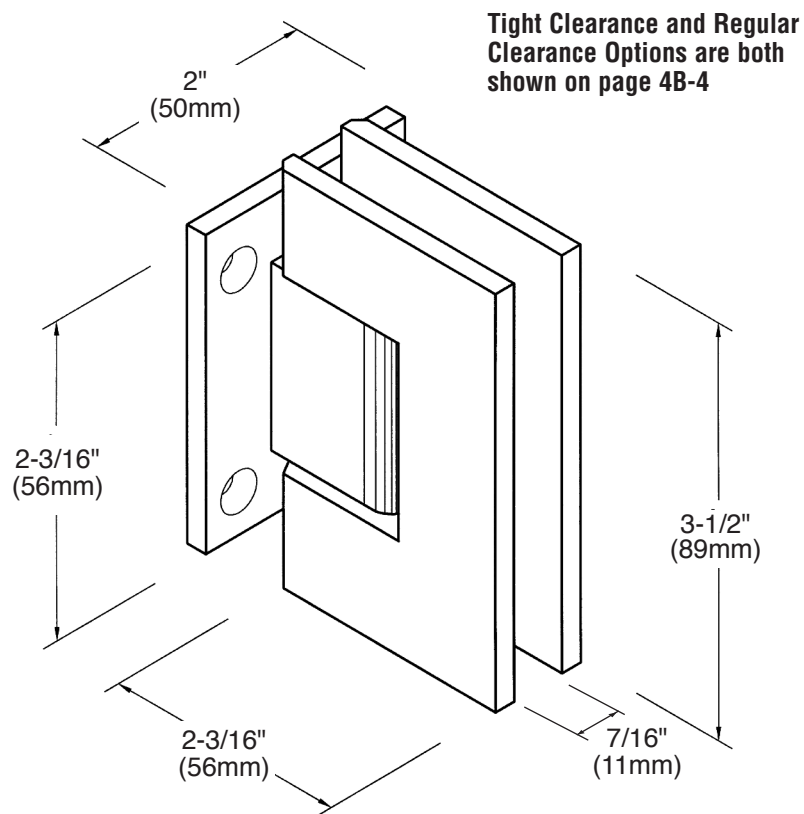
GENEVA

135° Glass-to-Glass Hinge
Cat No. **GEN345** (Adjustable)





C.R. LAURENCE CO., INC.
PROFESSIONAL QUALITY



*** SEE TEMPLATE ON BACK ***
Refer to Dimensions Shown
to Ensure Accuracy

GENEVA

Wall Mount Hinge – Short Back Plate

CAT No. GEN074

*Maximum Door Capacities	3/8" (10mm) Glass		1/2" (12mm) Glass	
	Weight	Width	Weight	Width
Using 2 Hinges	80 lbs.(36 kg)	28"(711mm)	80 lbs.(36 kg)	28"(711mm)
Using 3 Hinges	120 lbs.(54 kg)	32"(813mm)	120 lbs.(54 kg)	32"(813mm)

***NOTE:** Do not exceed either maximum weight or width when choosing proper quantity of hinges.

Important Information:

- 1) The Cat. No. GEN074 Short Back Plate Geneva Wall Mount Hinge offers two different templates. The Regular Clearance Template allows 1/8" (3mm) to 1/4" (6mm) clearance. The Tight Clearance Template allows for a tighter clearance of 1/32" (1mm) to 5/32" (4mm), and is commonly used on installations where vinyl seals are not being used.
- 2) This hinge contains a dual degree pivot pin. The pivot pin is set for normal door closing position. You have the option of altering the closing position of the door 5 degrees inward by utilizing the opposite side of the pivot pin, which has been pre-machined (see Section 3 of Cat. No. SDT20 Frameless Shower Door Guide for this procedure). Special order custom pivot pins are available (Cat.No. GENP1N) that can be machined at any angle up to 45 degrees

Specifications:

Glass Sizes: 3/8" (10mm) to 1/2" (12mm) thick tempered safety glass

Construction: Solid brass

Closing Type: Self-centering when within 15° of closed position

Cutout Required

Includes: Gaskets, screws and template

Use of Gaskets:

For 3/8"(10mm) Glass: Use one thick gasket on each side

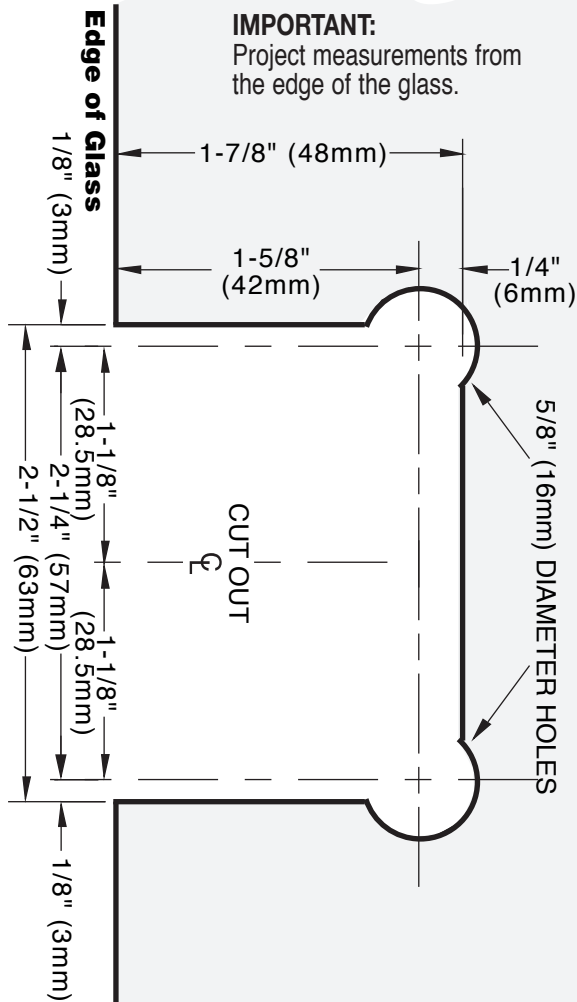
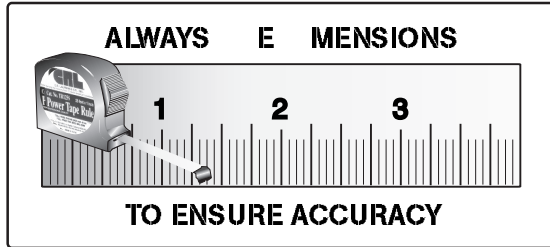
For 1/2"(12mm) Glass: Use one thin gasket on each side

Recommendation:

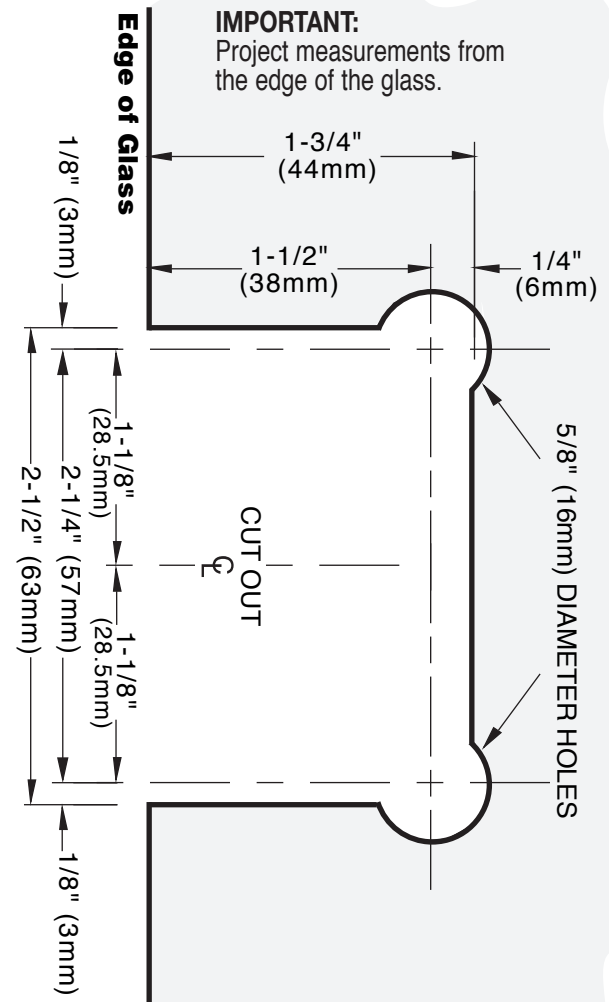
For public safety, we recommend the use of only tempered safety glass. Do not use power tools when installing these hinges.

Maintenance Guidelines:

- Our hinges are greased at the factory for quiet and trouble-free operation. If there is any squeaking that occurs after installation, put a drop of "3 in 1 Oil" (also known as "household oil") on the white nylon washer that the hinge body pivots on. This washer is the component that acts as a buffer, so the body of the hinge doesn't pivot directly on the brass center block. This solution doesn't require the disassembly of the hinge.
Note: Do not use spray lubricant on these hinges. If the hinge has been disassembled, upon re-assembly, use white lithium grease to lubricate the interior mechanism.
- Never use an abrasive cleaner on the hardware. Many of the components are coated with a clear lacquer that will be irreparably damaged if subjected to harsh, abrasive chemicals. Advise your customer that drying the hardware with a clean, soft towel on a daily basis is the best way to maintain the hardware. If mineral deposits build-up, mix a couple of drops of a mild liquid soap (such as Ivory or a similar product) into a cup of warm water. Using a soft, non-abrasive cloth, clean the hardware. Rinse thoroughly with clean, warm water and dry.



TIGHT CLEARANCE TEMPLATE
(1/32" (1mm) to 5/32" (4mm) Clearance)



REGULAR CLEARANCE TEMPLATE
(1/8" (3mm) to 1/4" (6mm) Clearance)

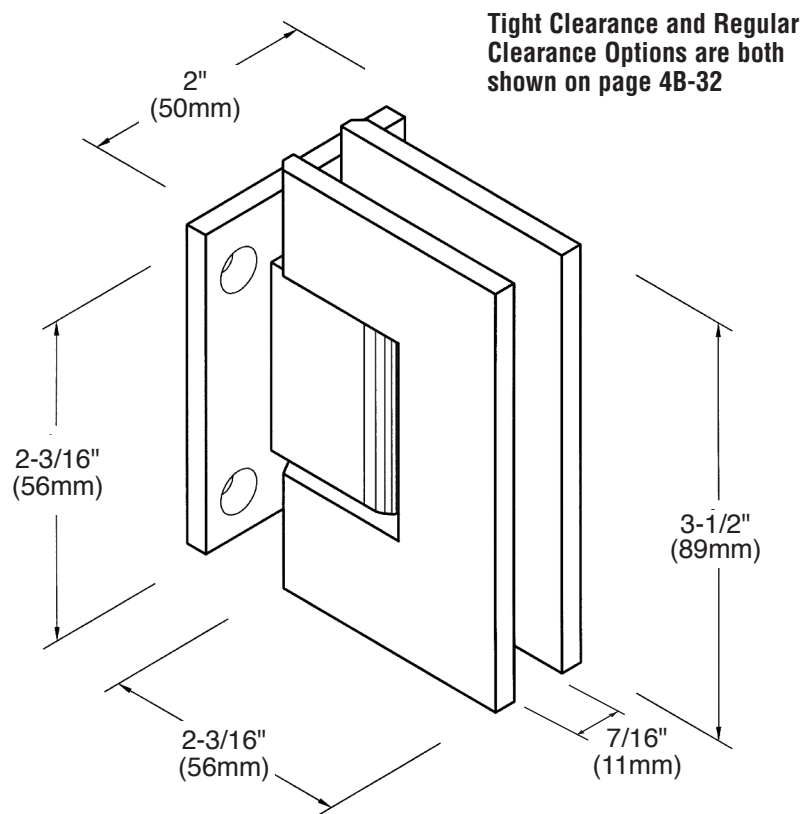
GENEVA

Wall Mount Hinge – Short Back Plate

CAT No. GEN074



C.R. LAURENCE CO., INC.
PROFESSIONAL QUALITY



*** SEE TEMPLATE ON BACK ***
Refer to Dimensions Shown to Ensure Accuracy

GENEVA

Wall Mount Hinge – Short Back Plate (5° Offset)

CAT No. GEN574

*Maximum Door Capacities	3/8" (10mm) Glass		1/2" (12mm) Glass	
	Weight	Width	Weight	Width
Using 2 Hinges	80 lbs.(36 kg)	28"(711mm)	80 lbs.(36 kg)	28"(711mm)
Using 3 Hinges	120 lbs.(54 kg)	32"(813mm)	120 lbs.(54 kg)	32"(813mm)

***NOTE:** Do not exceed either maximum weight or width when choosing proper quantity of hinges.

Important Information:

- 1) The Cat. No. GEN574 Short Back Plate Geneva Wall Mount Hinge offers two different templates. The Regular Clearance Template allows 1/8" (3mm) to 1/4" (6mm) clearance. The Tight Clearance Template allows for a tighter clearance of 1/32" (1mm) to 5/32" (4mm), and is commonly used on installations where vinyl seals are not being used.
- 2) This hinge contains a dual degree pivot pin. The pivot pin is set for the door to close 5 degrees inwards from the normal closing position. You have the option of altering the closing position of the door 5 degrees (back to normal closing position) by utilizing the opposite side of the pivot pin, which has been pre-machined (see Section 3 of Cat. No. SDT21 Frameless Shower Door Guide for this procedure). Special order custom pivot pins are available (Cat.No. GENP1N) that can be machined at any angle up to 45 degrees.

Specifications:

Glass Sizes: 3/8" (10mm) to 1/2" (12mm) thick tempered safety glass
Construction: Solid brass
Closing Type: Self-centering when within 15° of closed position
Cutout Required
Includes: Gaskets, screws and template

Use of Gaskets:

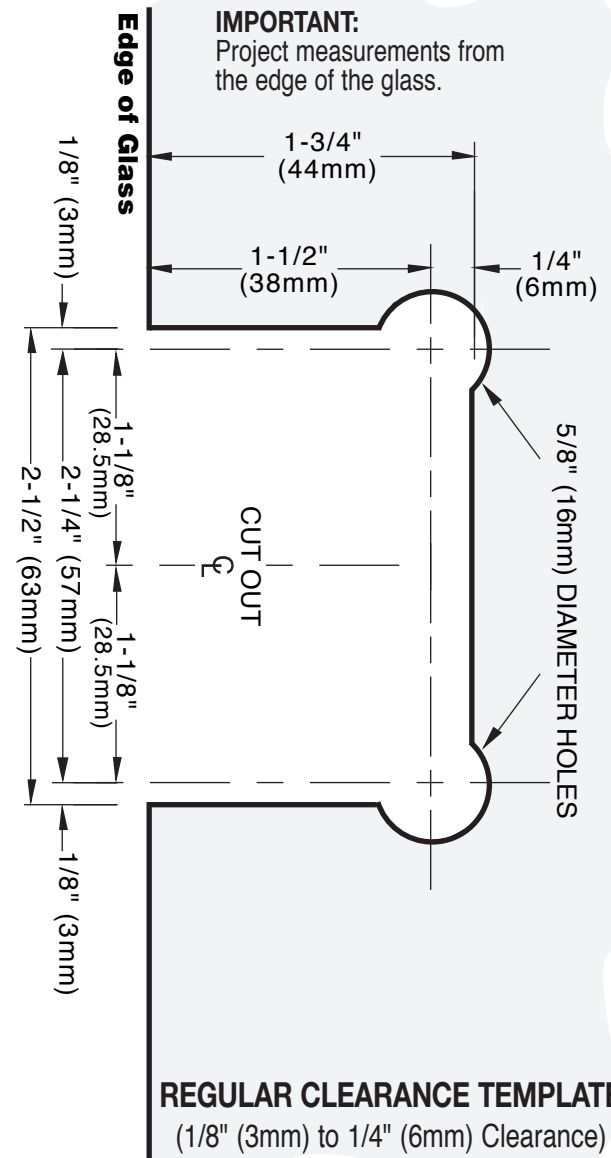
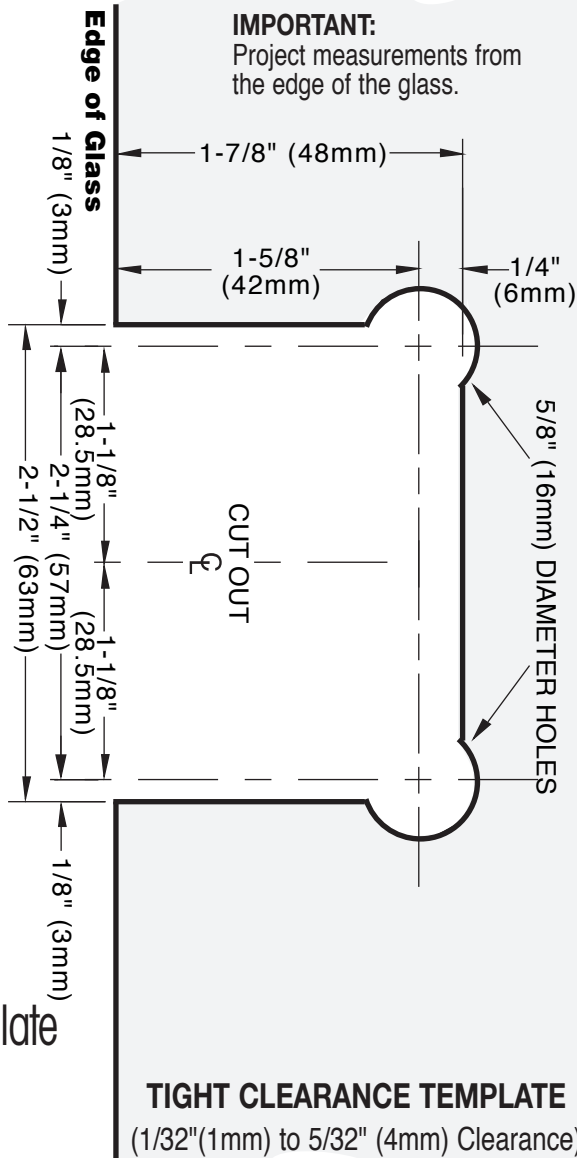
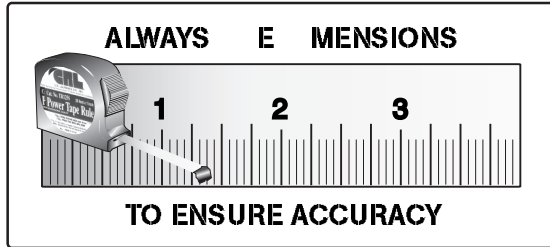
For 3/8"(10mm) Glass: Use one thick gasket on each side
For 1/2"(12mm) Glass: Use one thin gasket on each side

Recommendation:

For public safety, we recommend the use of only tempered safety glass. Do not use power tools when installing these hinges.

Maintenance Guidelines:

- Our hinges are greased at the factory for quiet and trouble-free operation. If there is any squeaking that occurs after installation, put a drop of "3 in 1 Oil" (also known as "household oil") on the white nylon washer that the hinge body pivots on. This washer is the component that acts as a buffer, so the body of the hinge doesn't pivot directly on the brass center block. This solution doesn't require the disassembly of the hinge.
Note: Do not use spray lubricant on these hinges. If the hinge has been disassembled, upon re-assembly, use white lithium grease to lubricate the interior mechanism.
- Never use an abrasive cleaner on the hardware. Many of the components are coated with a clear lacquer that will be irreparably damaged if subjected to harsh, abrasive chemicals. Advise your customer that drying the hardware with a clean, soft towel on a daily basis is the best way to maintain the hardware. If mineral deposits build-up, mix a couple of drops of a mild liquid soap (such as Ivory or a similar product) into a cup of warm water. Using a soft, non-abrasive cloth, clean the hardware. Rinse thoroughly with clean, warm water and dry.



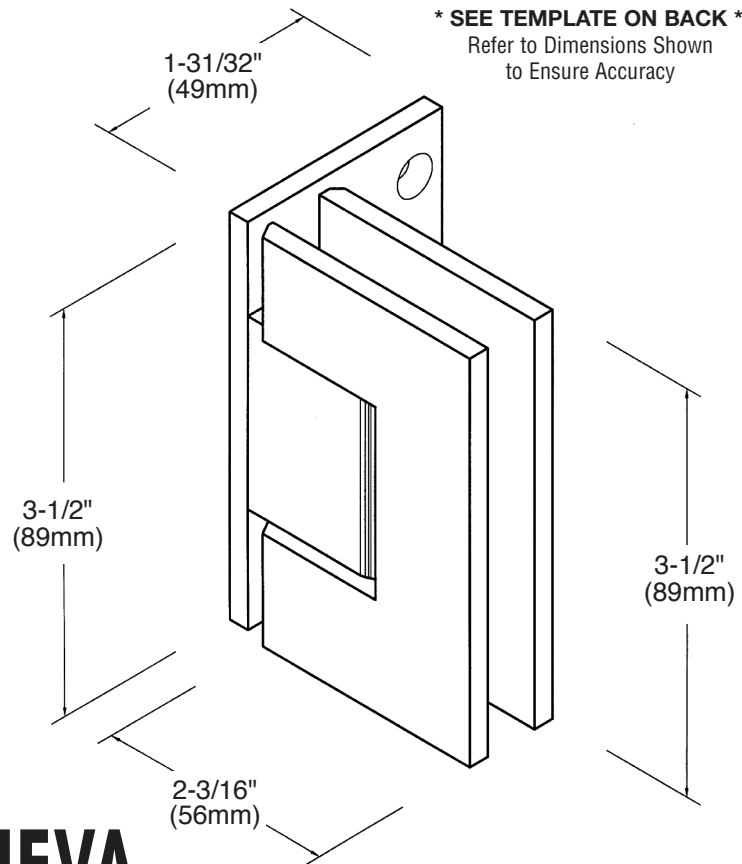
GENEVA

Wall Mount Hinge – Short Back Plate
(5° Offset)

CAT No. GEN574



C.R. LAURENCE CO., INC.
PROFESSIONAL QUALITY



Important Information:

This hinge contains a dual degree pivot pin. The pivot pin is set for normal door closing position. You have the option of altering the closing position of the door 5 degrees inward by utilizing the opposite side of the pivot pin, which has been pre-machined (see Section 3 of Cat. No. SDT20 Frameless Shower Door Guide for this procedure). Special order custom pivot pins are available (Cat.No. GENP1N) that can be machined at any angle up to 45 degrees.

Specifications:

Glass Sizes: 3/8" (10mm) to 1/2" (12mm) thick tempered safety glass

Construction: Solid brass

Closing Type: Self-centering when within 15° of closed position

Cutout Required

Includes: Gaskets, screws and template

Use of Gaskets:

For 3/8"(10mm) Glass: Use one thick gasket on each side

For 1/2"(12mm) Glass: Use one thin gasket on each side

Recommendations:

For public safety, we recommend the use of only tempered safety glass. Do not use power tools when installing these hinges.

Maintenance Guidelines:

- Our hinges are greased at the factory for quiet and trouble-free operation. If there is any squeaking that occurs after installation, put a drop of "3 in 1 Oil" (also known as "household oil") on the white nylon washer that the hinge body pivots on. This washer is the component that acts as a buffer, so the body of the hinge doesn't pivot directly on the brass center block. This solution doesn't require the disassembly of the hinge. **Note: Do not use spray lubricant on these hinges.** If the hinge has been disassembled, upon re-assembly, use white lithium grease to lubricate the interior mechanism.
- Never use an abrasive cleaner on the hardware. Many of the components are coated with a clear lacquer that will be irreparably damaged if subjected to harsh, abrasive chemicals. Advise your customer that drying the hardware with a clean, soft towel on a daily basis is the best way to maintain the hardware. If mineral deposits build-up, mix a couple of drops of a mild liquid soap (such as Ivory or a similar product) into a cup of warm water. Using a soft, non-abrasive cloth, clean the hardware. Rinse thoroughly with clean, warm water and dry.

GENEVA

Wall Mount Hinge – Offset Back Plate

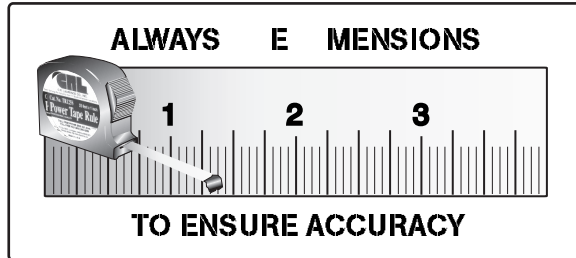
CAT No. GEN044

*Maximum Door Capacities	3/8" (10mm) Glass		1/2" (12mm) Glass	
	Weight	Width	Weight	Width
Using 2 Hinges	80 lbs.(36 kg)	28"(711mm)	80 lbs.(36 kg)	28"(711mm)
Using 3 Hinges	120 lbs.(54 kg)	32"(813mm)	120 lbs.(54 kg)	32"(813mm)

*NOTE: Do not exceed either maximum weight or width when choosing proper quantity of hinges.



C.R. LAURENCE CO., INC.
PROFESSIONAL QUALITY



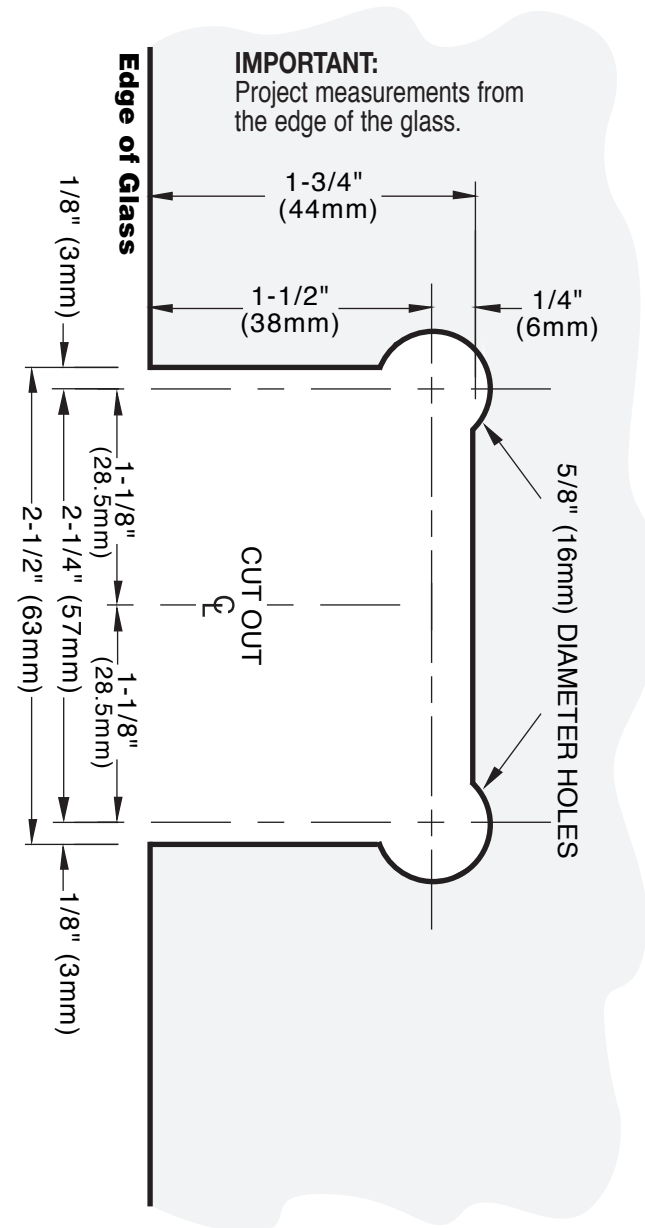
GENEVA

Wall Mount Hinge – Offset Back Plate

CAT No. GEN044

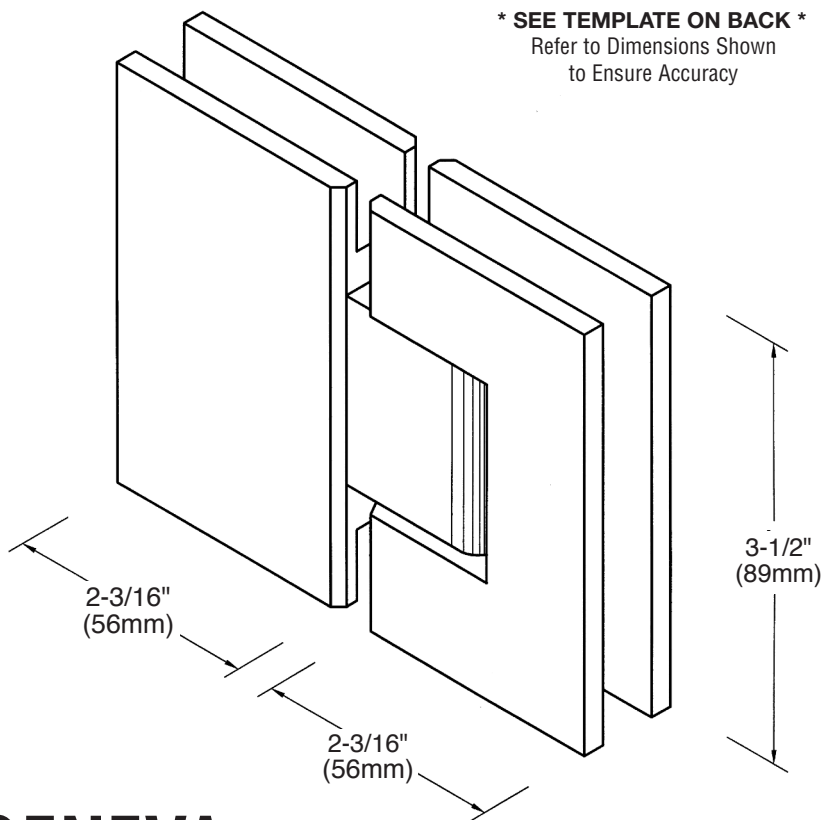
C.R. Laurence Co., Inc.
crlaurence.com

For technical assistance in the United States call toll free (800) 421-6144; from Canada call toll free (877) 421-6144; Outside the U.S. and Canada call (323) 588-1281. Ask for Tech Sales at Extension 7740. Toll free fax (800) 458-7496.





C.R. LAURENCE CO., INC.
PROFESSIONAL QUALITY



*** SEE TEMPLATE ON BACK ***
Refer to Dimensions Shown
to Ensure Accuracy

GENEVA

180° Glass-to-Glass Hinge

CAT No. GEN180

*Maximum Door Capacities	3/8" (10mm) Glass		1/2" (12mm) Glass	
	Weight	Width	Weight	Width
Using 2 Hinges	80 lbs.(36 kg)	28"(711mm)	80 lbs.(36 kg)	28"(711mm)
Using 3 Hinges	120 lbs.(54 kg)	32"(813mm)	120 lbs.(54 kg)	32"(813mm)

***NOTE:** Do not exceed either maximum weight or width when choosing proper quantity of hinges.

Important Information:

This hinge contains a dual degree pivot pin. The pivot pin is set for normal door closing position. You have the option of altering the closing position of the door 5 degrees inward by utilizing the opposite side of the pivot pin, which has been pre-machined (see Section 3 of Cat. No. SDT20 Frameless Shower Door Guide for this procedure). Special order custom pivot pins are available (Cat.No. GENP1N) that can be machined at any angle up to 45 degrees.

Specifications:

Glass Sizes: 3/8" (10mm) to 1/2" (12mm) thick tempered safety glass

Construction: Solid brass

Closing Type: Self-centering when within 15° of closed position

Cutout Required

Includes: Gaskets, screws and template

Use of Gaskets:

For 3/8"(10mm) Glass: Use one thick gasket on each side

For 1/2"(12mm) Glass: Use one thin gasket on each side

Recommendations:

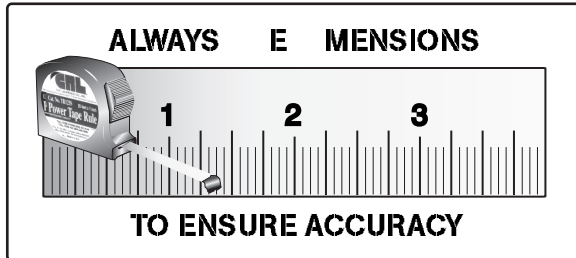
For public safety, we recommend the use of only tempered safety glass. Do not use power tools when installing these hinges.

Maintenance Guidelines:

- Our hinges are greased at the factory for quiet and trouble-free operation. If there is any squeaking that occurs after installation, put a drop of "3 in 1 Oil" (also known as "household oil") on the white nylon washer that the hinge body pivots on. This washer is the component that acts as a buffer, so the body of the hinge doesn't pivot directly on the brass center block. This solution doesn't require the disassembly of the hinge. **Note: Do not use spray lubricant on these hinges.** If the hinge has been disassembled, upon re-assembly, use white lithium grease to lubricate the interior mechanism.
- Never use an abrasive cleaner on the hardware. Many of the components are coated with a clear lacquer that will be irreparably damaged if subjected to harsh, abrasive chemicals. Advise your customer that drying the hardware with a clean, soft towel on a daily basis is the best way to maintain the hardware. If mineral deposits build-up, mix a couple of drops of a mild liquid soap (such as Ivory or a similar product) into a cup of warm water. Using a soft, non-abrasive cloth, clean the hardware. Rinse thoroughly with clean, warm water and dry.

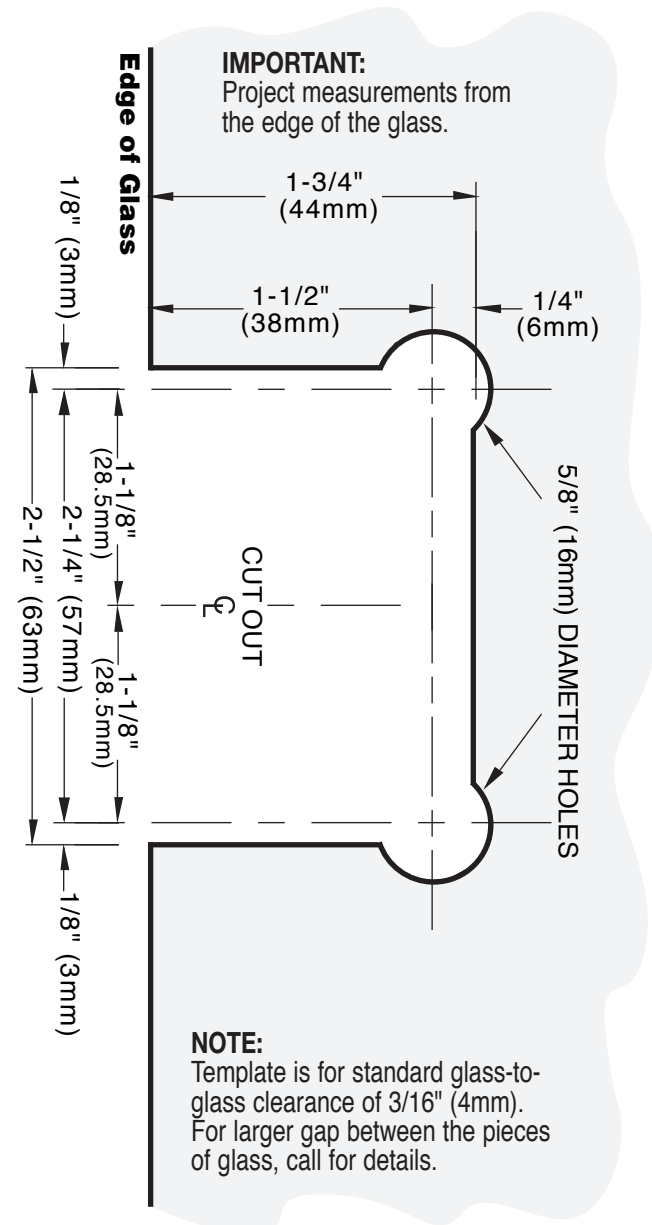


C.R. LAURENCE CO., INC.
PROFESSIONAL QUALITY



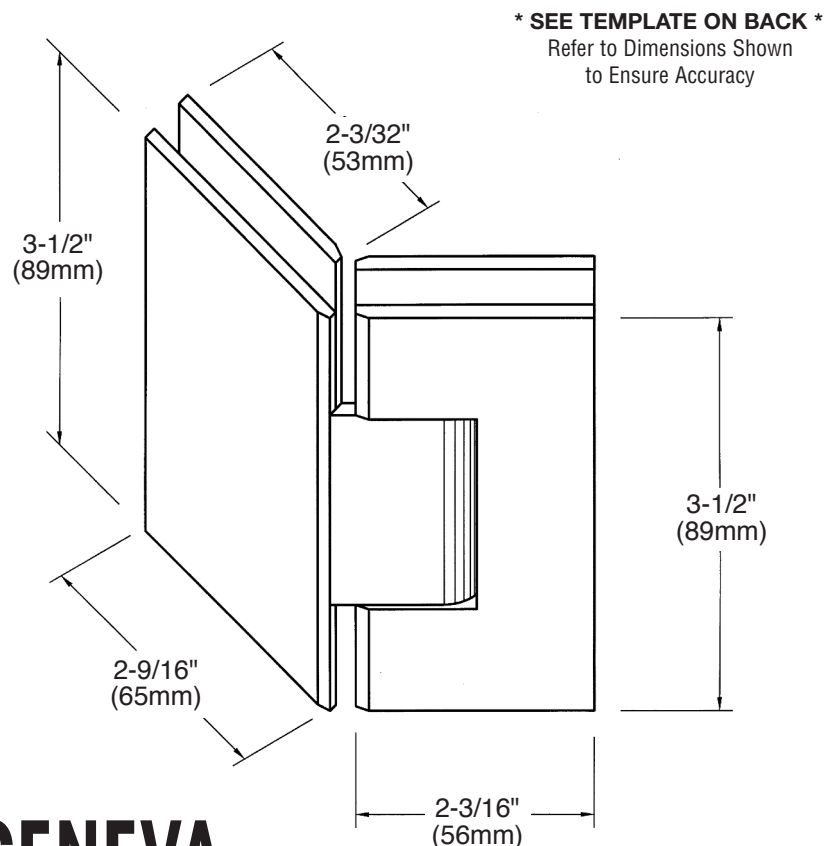
GENEVA

180° Glass-to-Glass Hinge
CAT No. GEN180



C.R. Laurence Co., Inc.
 crlaurence.com

For technical assistance in the United States call toll free (800) 421-6144; from Canada call toll free (877) 421-6144; Outside the U.S. and Canada call (323) 588-1281. Ask for Tech Sales at Extension 7740. Toll free fax (800) 458-7496.



GENEVA

135° Glass-to-Glass Hinge

CAT No. GEN045

(This hinge requires two different templates, one for the door and one for the mitered fixed panel).

*Maximum Door Capacities	3/8" (10mm) Glass		1/2" (12mm) Glass	
	Weight	Width	Weight	Width
Using 2 Hinges	80 lbs.(36 kg)	28"(711mm)	80 lbs.(36 kg)	28"(711mm)
Using 3 Hinges	120 lbs.(54 kg)	32"(813mm)	120 lbs.(54 kg)	32"(813mm)

*NOTE: Do not exceed either maximum weight or width when choosing proper quantity of hinges.

Important Information:

- 1) This hinge contains a dual degree pivot pin. The pivot pin is set for normal door closing position. You have the option of altering the closing position of the door 5 degrees inward by utilizing the opposite side of the pivot pin, which has been pre-machined (see Section 3 of Cat. No. SDT20 Frameless Shower Door Guide for this procedure). Special order custom pivot pins are available (Cat.No. GENP1N) that can be machined at any angle up to 45 degrees.
- 2) The fixed panel measurements must be taken from the outside of the miter.

Specifications:

Glass Sizes: 3/8" (10mm) to 1/2" (12mm) thick tempered safety glass
Construction: Solid brass
Closing Type: Self-centering when within 15° of closed position
Cutout Required
Includes: Gaskets, screws and template

Use of Gaskets:

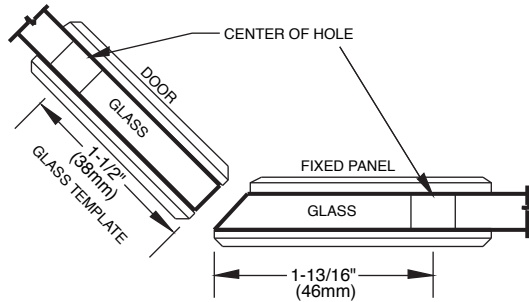
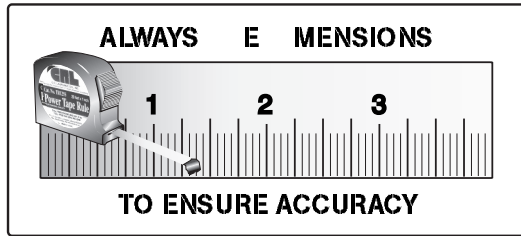
For 3/8"(10mm) Glass: Use one thick gasket on each side
For 1/2"(12mm) Glass: Use one thin gasket on each side

Recommendations:

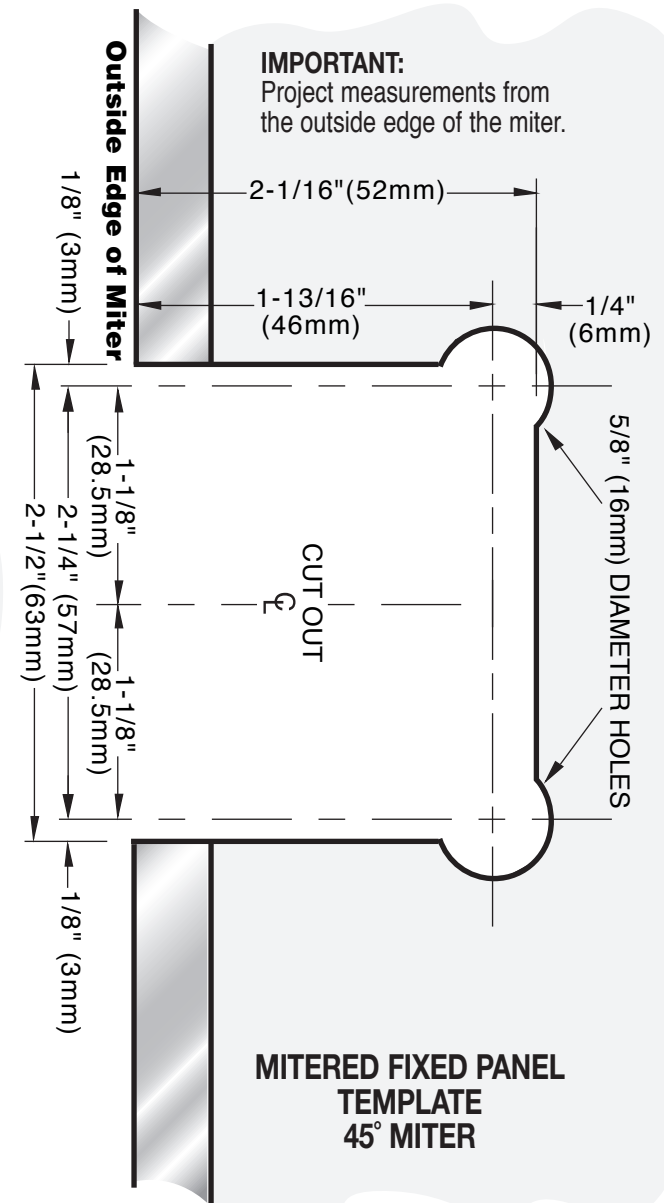
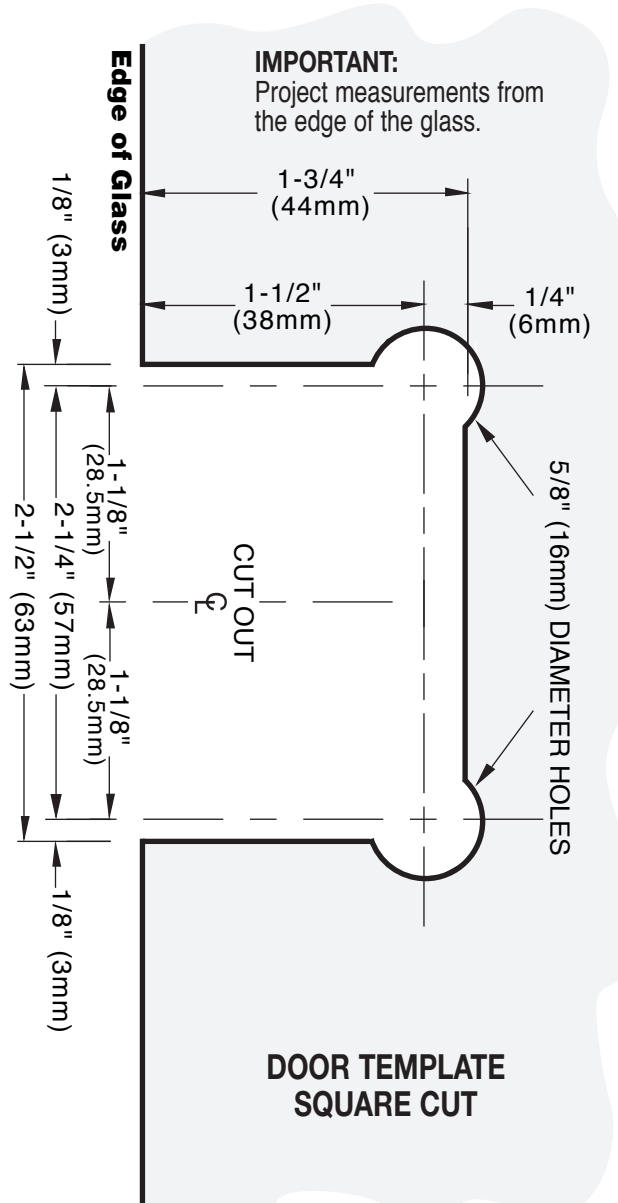
For public safety, we recommend the use of only tempered safety glass.
 Do not use power tools when installing these hinges.

Maintenance Guidelines:

- Our hinges are greased at the factory for quiet and trouble-free operation. If there is any squeaking that occurs after installation, put a drop of "3 in 1 Oil" (also known as "household oil") on the white nylon washer that the hinge body pivots on. This washer is the component that acts as a buffer, so the body of the hinge doesn't pivot directly on the brass center block. This solution doesn't require the disassembly of the hinge.
Note: Do not use spray lubricant on these hinges. If the hinge has been disassembled, upon re-assembly, use white lithium grease to lubricate the interior mechanism.
- Never use an abrasive cleaner on the hardware. Many of the components are coated with a clear lacquer that will be irreparably damaged if subjected to harsh, abrasive chemicals. Advise your customer that drying the hardware with a clean, soft towel on a daily basis is the best way to maintain the hardware. If mineral deposits build-up, mix a couple of drops of a mild liquid soap (such as Ivory or a similar product) into a cup of warm water. Using a soft, non-abrasive cloth, clean the hardware. Rinse thoroughly with clean, warm water and dry.

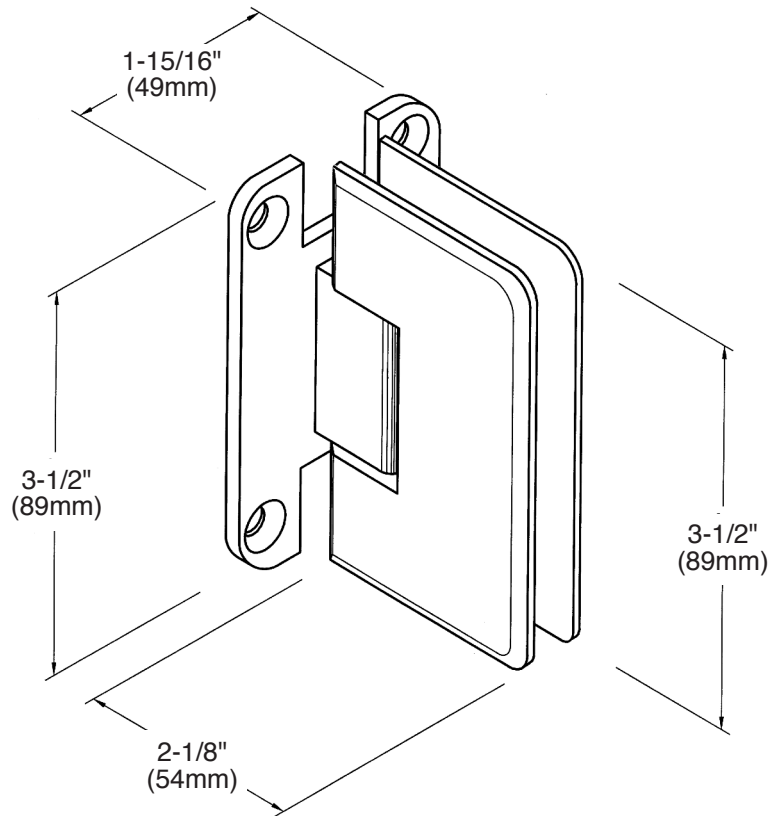


GENEVA
135° Glass-to-Glass Hinge
CAT No. GEN045





C.R. LAURENCE CO., INC.
PROFESSIONAL QUALITY



PINNACLE

Wall Mount Hinge

CAT No. PIN037

*** SEE TEMPLATE ON BACK ***
Refer to Dimensions Shown
to Ensure Accuracy

*Maximum Door Capacities	3/8" (10mm) Glass		1/2" (12mm) Glass	
	Weight	Width	Weight	Width
Using 2 Hinges	80 lbs.(36 kg)	28"(711mm)	80 lbs.(36 kg)	28"(711mm)
Using 3 Hinges	120 lbs.(55 kg)	32"(813mm)	120 lbs.(55 kg)	32"(813mm)

***NOTE:** Do not exceed either maximum weight or width when choosing proper quantity of hinges.

Important Information:

This hinge contains a dual degree pivot pin. The pivot pin is set for normal door closing position. You have the option of altering the closing position of the door 5 degrees inward by utilizing the opposite side of the pivot pin, which has been pre-machined (see Section 3 of Cat. No. SDT20 Frameless Shower Door Guide for this procedure). Special order custom pivot pins are available (Cat.No. GENP1N) that can be machined at any angle up to 45 degrees.

Specifications:

Glass Sizes: 3/8" (10mm) to 1/2" (12mm) thick tempered safety glass
Construction: Solid brass
Closing Type: Self-centering when within 15° of closed position
Cutout Required
Includes: Gaskets, screws and template

Use of Gaskets:

For 3/8"(10mm) Glass: Use one thick gasket on each side
For 1/2"(12mm) Glass: Use one thin gasket on each side

Recommendations:

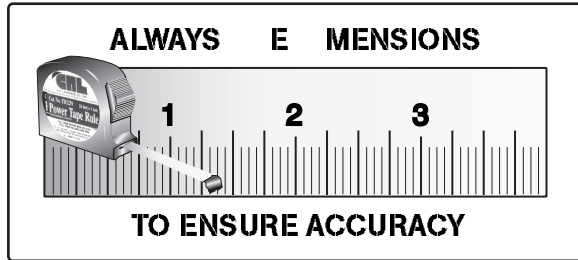
For public safety, we recommend the use of only tempered safety glass. Do not use power tools when installing these hinges.

Maintenance Guidelines:

- Our hinges are greased at the factory for quiet and trouble-free operation. If there is any squeaking that occurs after installation, put a drop of "3 in 1 Oil" (also known as "household oil") on the white nylon washer that the hinge body pivots on. This washer is the component that acts as a buffer, so the body of the hinge doesn't pivot directly on the brass center block. This solution doesn't require the disassembly of the hinge.
Note: Do not use spray lubricant on these hinges. If the hinge has been disassembled, upon re-assembly, use white lithium grease to lubricate the interior mechanism.
- Never use an abrasive cleaner on the hardware. Many of the components are coated with a clear lacquer that will be irreparably damaged if subjected to harsh, abrasive chemicals. Advise your customer that drying the hardware with a clean, soft towel on a daily basis is the best way to maintain the hardware. If mineral deposits build-up, mix a couple of drops of a mild liquid soap (such as Ivory or a similar product) into a cup of warm water. Using a soft, non-abrasive cloth, clean the hardware. Rinse thoroughly with clean, warm water and dry.

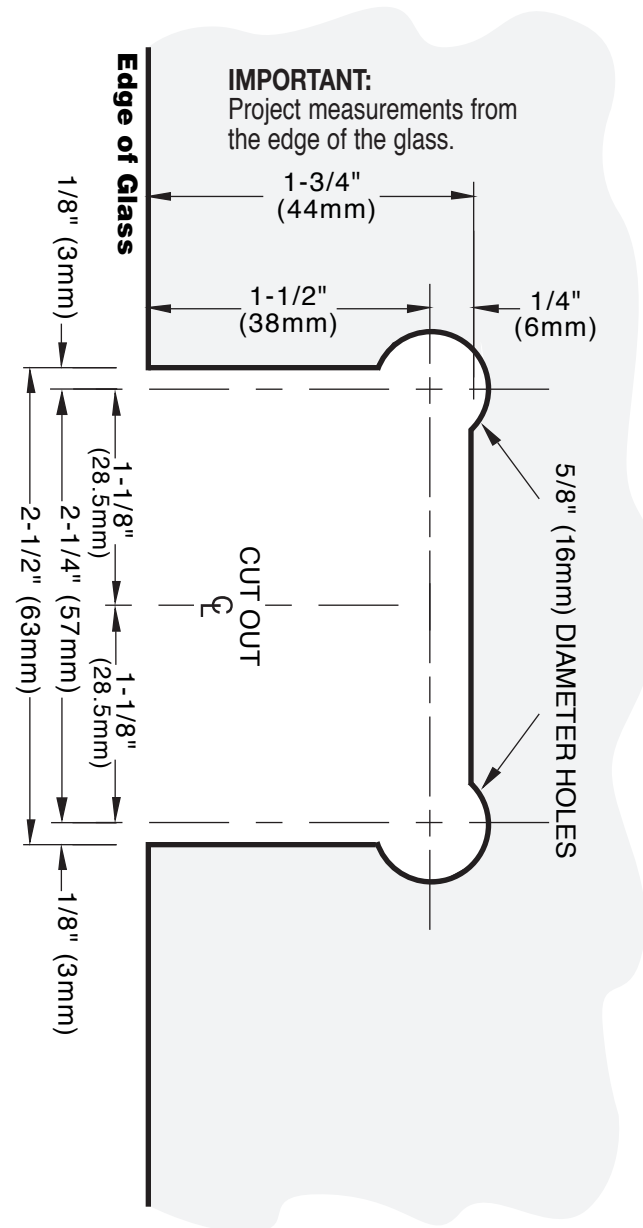


C.R. LAURENCE CO., INC.
PROFESSIONAL QUALITY



PINNACLE

Wall Mount Hinge
CAT No. PIN037

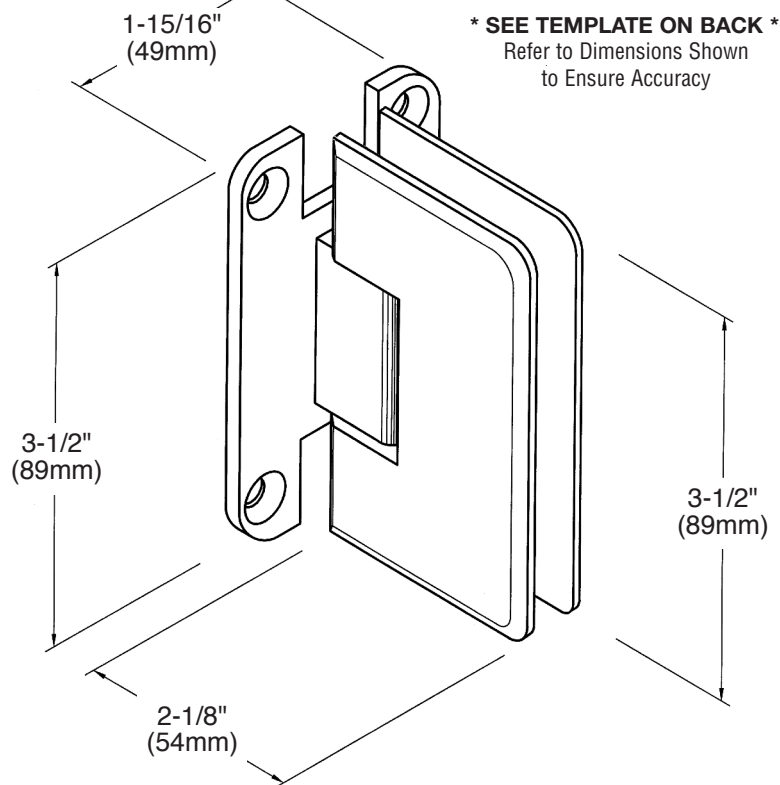


C.R. Laurence Co., Inc.
 crlaurence.com

For technical assistance in the United States call toll free (800) 421-6144; from Canada call toll free (877) 421-6144; Outside the U.S. and Canada call (323) 588-1281. Ask for Tech Sales at Extension 7740. Toll free fax (800) 458-7496.



C.R. LAURENCE CO., INC.
PROFESSIONAL QUALITY



Important Information:

This hinge adjusts to accommodate the desired door closing position up to 90°, after the door is installed. This is achieved by loosening the Allen set screws (located on the rear of the center block), moving the door to the desired closing position, and then tightening the screws. The self-centering position has now been changed to the angle you desire.

Specifications:

Glass Sizes: 3/8" (10mm) to 1/2" (12mm) thick tempered safety glass

Construction: Solid brass

Closing Type: Self-centering when within 15° of closing position

Cutout Required

Includes: Gaskets, screws and template

Use of Gaskets:

For 3/8"(10mm) Glass: Use one thick gasket on each side

For 1/2"(12mm) Glass: Use one thin gasket on each side

Recommendations:

For public safety, we recommend the use of only tempered safety glass. Do not use power tools when installing these hinges.

Maintenance Guidelines:

- Our hinges are greased at the factory for quiet and trouble-free operation. If there is any squeaking that occurs after installation, put a drop of "3 in 1 Oil" (also known as "household oil") on the white nylon washer that the hinge body pivots on. This washer is the component that acts as a buffer, so the body of the hinge doesn't pivot directly on the brass center block. This solution doesn't require the disassembly of the hinge. **Note: Do not use spray lubricant on these hinges.** If the hinge has been disassembled, upon re-assembly, use white lithium grease to lubricate the interior mechanism.
- Never use an abrasive cleaner on the hardware. Many of the components are coated with a clear lacquer that will be irreparably damaged if subjected to harsh, abrasive chemicals. Advise your customer that drying the hardware with a clean, soft towel on a daily basis is the best way to maintain the hardware. If mineral deposits build-up, mix a couple of drops of a mild liquid soap (such as Ivory or a similar product) into a cup of warm water. Using a soft, non-abrasive cloth, clean the hardware. Rinse thoroughly with clean, warm water and dry.

PINNACLE

Wall Mount Hinge (Adjustable)

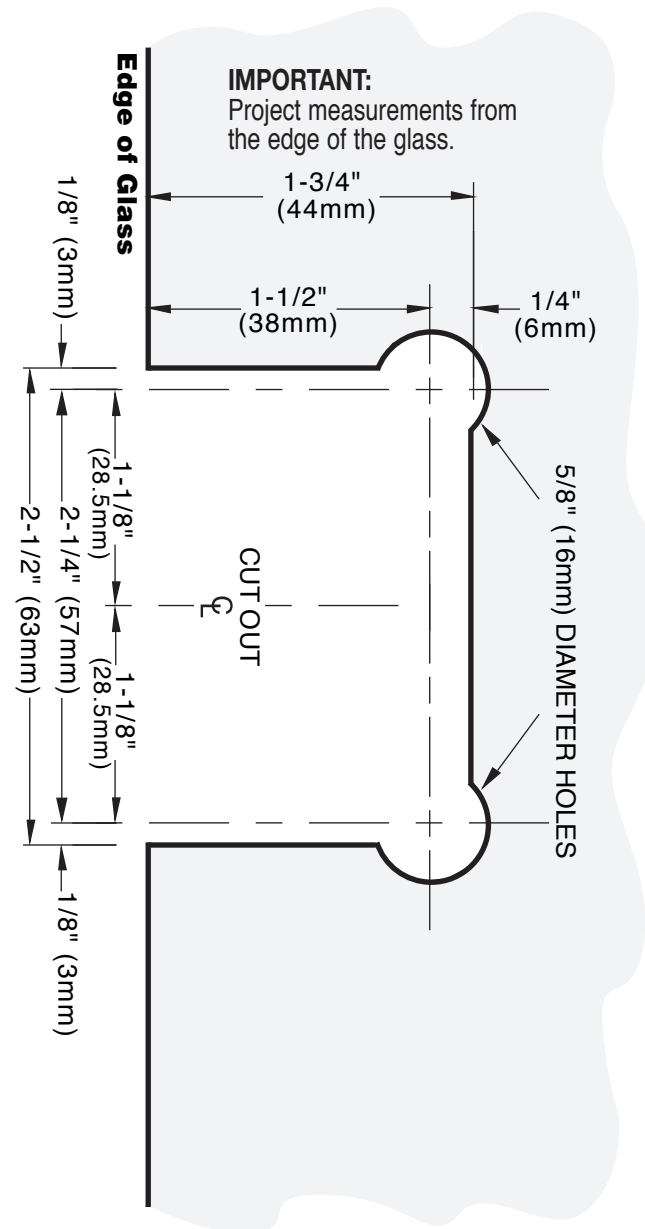
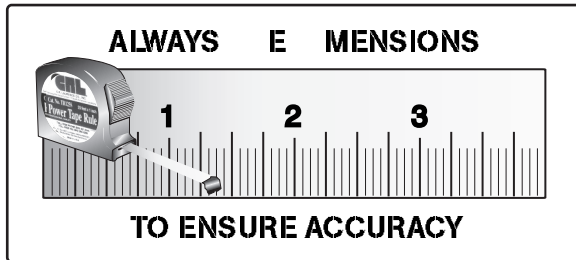
CAT. No. PIN337

*Maximum Door Capacities	3/8" (10mm) Glass		1/2" (12mm) Glass	
	Weight	Width	Weight	Width
Using 2 Hinges	80 lbs.(36 kg)	28"(711mm)	80 lbs.(36 kg)	28"(711mm)
Using 3 Hinges	120 lbs.(55 kg)	32"(813mm)	120 lbs.(55 kg)	32"(813mm)

***NOTE:** Do not exceed either maximum weight or width when choosing proper quantity of hinges.



C.R. LAURENCE CO., INC.
PROFESSIONAL QUALITY



PINNACLE

Wall Mount Hinge (Adjustable)

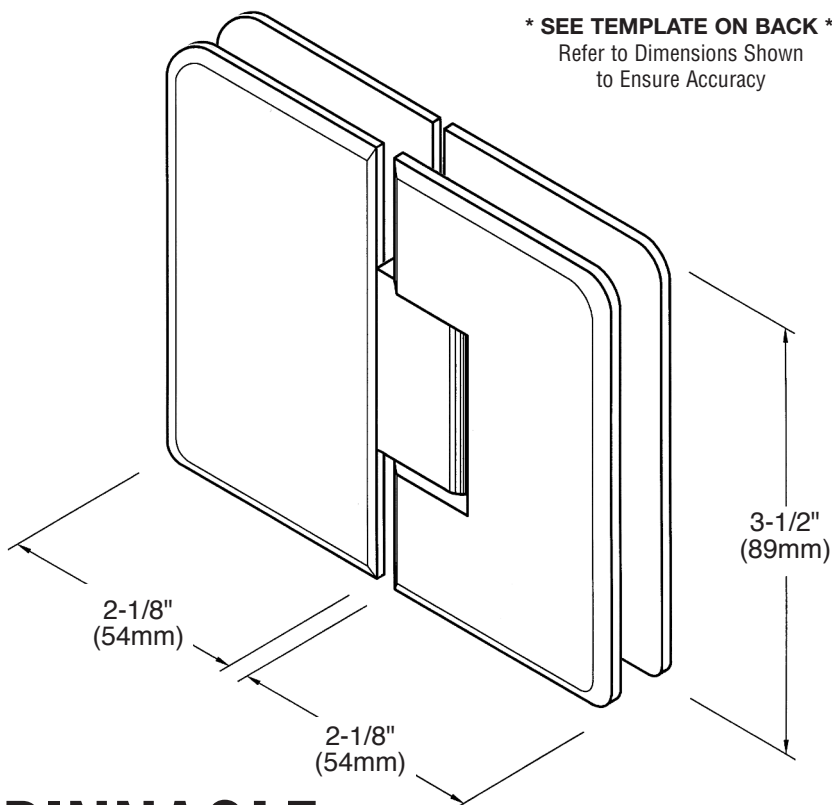
CAT No. PIN337

C.R. Laurence Co., Inc.
 crlaurence.com

For technical assistance in the United States call toll free (800) 421-6144; from Canada call toll free (877) 421-6144; Outside the U.S. and Canada call (323) 588-1281. Ask for Tech Sales at Extension 7740. Toll free fax (800) 458-7496.



C.R. LAURENCE CO., INC.
PROFESSIONAL QUALITY



*** SEE TEMPLATE ON BACK ***
Refer to Dimensions Shown
to Ensure Accuracy

Important Information:

This hinge adjusts to accommodate the desired door closing position up to 90°, after the door is installed. This is achieved by loosening the Allen set screws (located on the rear of center block), moving the door to the desired closing position, and then tightening the screws. The precise closing position has now been changed to the angle you desire.

Specifications:

Glass Sizes: 3/8" (10mm) to 1/2" (12mm) thick tempered safety glass

Construction: Solid brass

Closing Type: Self-centering when within 15° of closed position

Cutout Required

Includes: Gaskets, screws and template

Use of Gaskets:

For 3/8"(10mm) Glass: Use one thick gasket on each side

For 1/2"(12mm) Glass: Use one thin gasket on each side

Recommendations:

For public safety, we recommend the use of only tempered safety glass. Do not use power tools when installing these hinges.

Maintenance Guidelines:

- Our hinges are greased at the factory for quiet and trouble-free operation. If there is any squeaking that occurs after installation, put a drop of "3 in 1 Oil" (also known as "household oil") on the white nylon washer that the hinge body pivots on. This washer is the component that acts as a buffer, so the body of the hinge doesn't pivot directly on the brass center block. This solution doesn't require the disassembly of the hinge. **Note: Do not use spray lubricant on these hinges.** If the hinge has been disassembled, upon re-assembly, use white lithium grease to lubricate the interior mechanism.
- Never use an abrasive cleaner on the hardware. Many of the components are coated with a clear lacquer that will be irreparably damaged if subjected to harsh, abrasive chemicals. Advise your customer that drying the hardware with a clean, soft towel on a daily basis is the best way to maintain the hardware. If mineral deposits build-up, mix a couple of drops of a mild liquid soap (such as Ivory or a similar product) into a cup of warm water. Using a soft, non-abrasive cloth, clean the hardware. Rinse thoroughly with clean, warm water and dry.

PINNACLE

180° Glass-to-Glass Hinge (Adjustable)

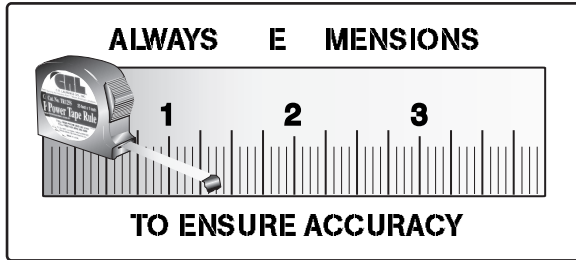
CAT No. PIN380

*Maximum Door Capacities	3/8" (10mm) Glass		1/2" (12mm) Glass	
	Weight	Width	Weight	Width
Using 2 Hinges	80 lbs.(36 kg)	28"(711mm)	80 lbs.(36 kg)	28"(711mm)
Using 3 Hinges	120 lbs.(55 kg)	32"(813mm)	120 lbs.(55 kg)	32"(813mm)

***NOTE:** Do not exceed either maximum weight or width when choosing proper quantity of hinges.



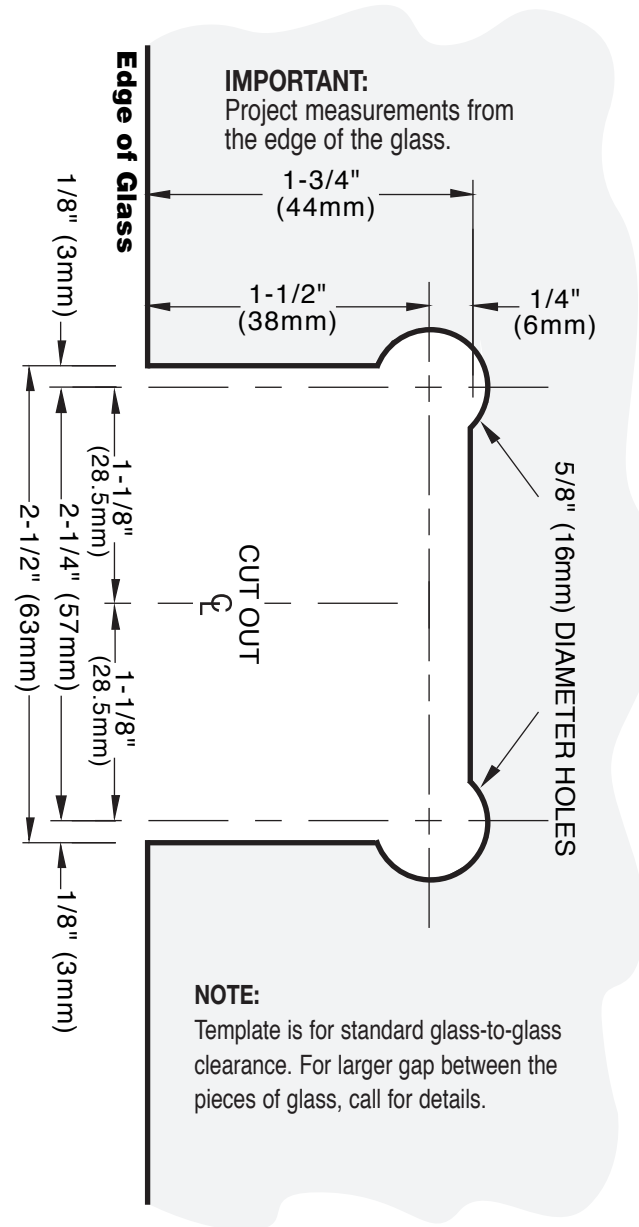
C.R. LAURENCE CO., INC.
PROFESSIONAL QUALITY



PINNACLE

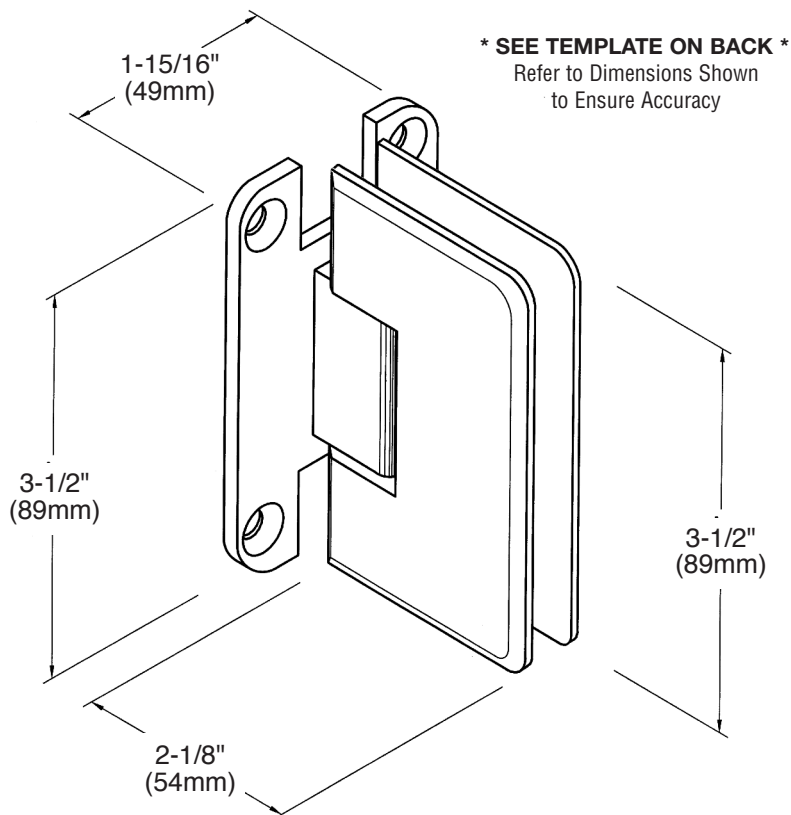
180° Glass-to-Glass Hinge (Adjustable)

CAT No. PIN380





C.R. LAURENCE CO., INC.
PROFESSIONAL QUALITY



Important Information:

This hinge contains a dual degree pivot pin. The pivot pin is set for the door to close 5 degrees inwards from the normal closing position. You have the option of altering the closing position of the door 5 degrees (back to normal closing position) by utilizing the opposite side of the pivot pin, which has been pre-machined (see Section 3 of Cat. No. SDT20 Frameless Shower Door Guide for this procedure). Special order custom pivot pins are available (Cat.No. GENP1N) that can be machined at any angle up to 45 degrees.

Specifications:

Glass Sizes: 3/8" (10mm) to 1/2" (12mm) thick tempered safety glass

Construction: Solid brass

Closing Type: Self-centering when within 15° of closed position

Cutout Required

Includes: Gaskets, screws and template

Use of Gaskets:

For 3/8"(10mm) Glass: Use one thick gasket on each side

For 1/2"(12mm) Glass: Use one thin gasket on each side

Recommendations:

For public safety, we recommend the use of only tempered safety glass. Do not use power tools when installing these hinges.

Maintenance Guidelines:

- Our hinges are greased at the factory for quiet and trouble-free operation. If there is any squeaking that occurs after installation, put a drop of "3 in 1 Oil" (also known as "household oil") on the white nylon washer that the hinge body pivots on. This washer is the component that acts as a buffer, so the body of the hinge doesn't pivot directly on the brass center block. This solution doesn't require the disassembly of the hinge.
Note: Do not use spray lubricant on these hinges. If the hinge has been disassembled, upon re-assembly, use white lithium grease to lubricate the interior mechanism.
- Never use an abrasive cleaner on the hardware. Many of the components are coated with a clear lacquer that will be irreparably damaged if subjected to harsh, abrasive chemicals. Advise your customer that drying the hardware with a clean, soft towel on a daily basis is the best way to maintain the hardware. If mineral deposits build-up, mix a couple of drops of a mild liquid soap (such as Ivory or a similar product) into a cup of warm water. Using a soft, non-abrasive cloth, clean the hardware. Rinse thoroughly with clean, warm water and dry.

PINNACLE

Wall Mount Hinge (5° Offset)

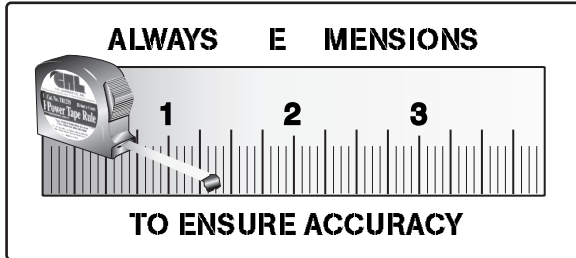
Cat No. PIN537

*Maximum Door Capacities	3/8" (10mm) Glass		1/2" (12mm) Glass	
	Weight	Width	Weight	Width
Using 2 Hinges	80 lbs.(36 kg)	28"(711mm)	80 lbs.(36 kg)	28"(711mm)
Using 3 Hinges	120 lbs.(55 kg)	32"(813mm)	120 lbs.(55 kg)	32"(813mm)

*NOTE: Do not exceed either maximum weight or width when choosing proper quantity of hinges.

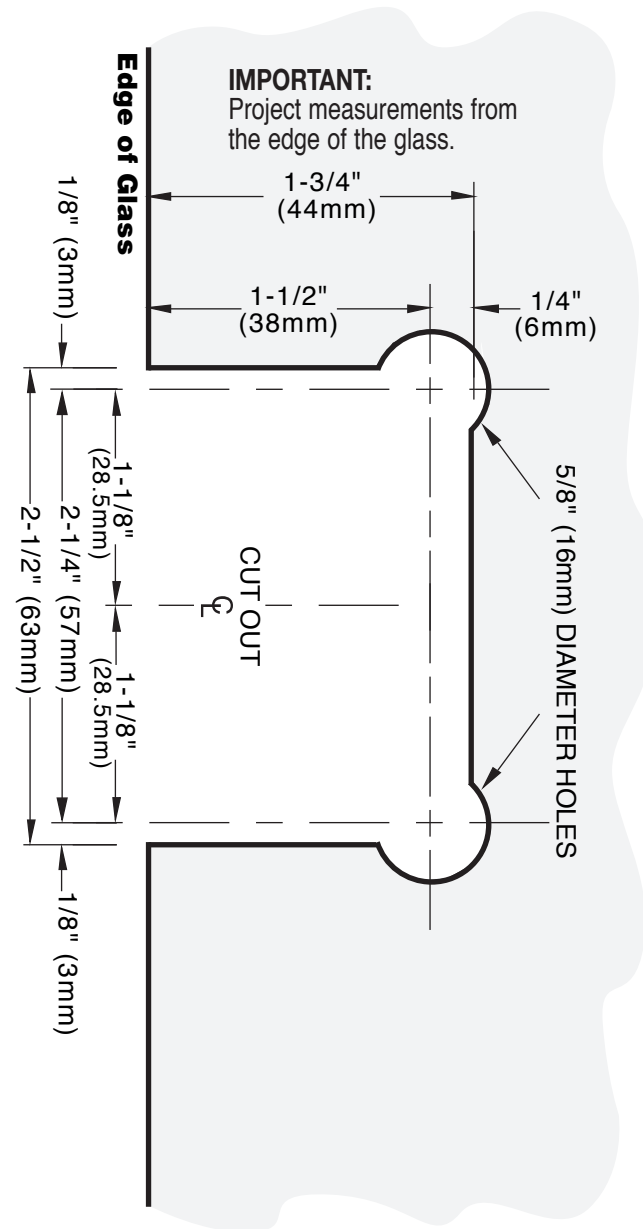


C.R. LAURENCE CO., INC.
PROFESSIONAL QUALITY



PINNACLE

Wall Mount Hinge (5° Offset)
CAT No. PIN537

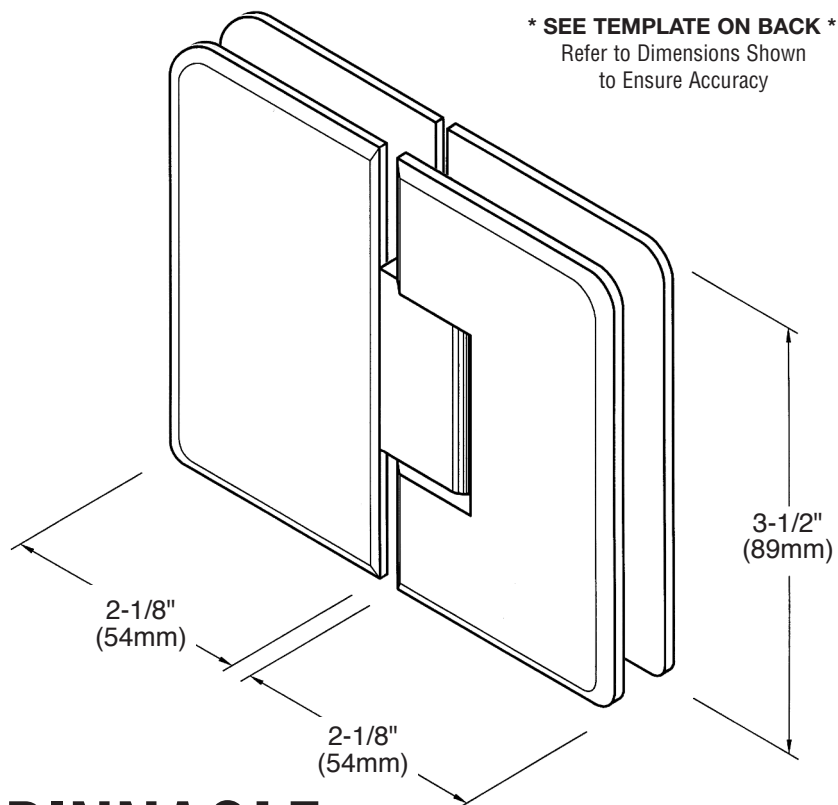


C.R. Laurence Co., Inc.
 crlaurence.com

For technical assistance in the United States call toll free (800) 421-6144; from Canada call toll free (877) 421-6144; Outside the U.S. and Canada call (323) 588-1281. Ask for Tech Sales at Extension 7740. Toll free fax (800) 458-7496.



C.R. LAURENCE CO., INC.
PROFESSIONAL QUALITY



*** SEE TEMPLATE ON BACK ***
Refer to Dimensions Shown
to Ensure Accuracy

PINNACLE

180° Glass-to-Glass Hinge (5° Offset)

CAT No. PIN580

*Maximum Door Capacities	3/8" (10mm) Glass		1/2" (12mm) Glass	
	Weight	Width	Weight	Width
Using 2 Hinges	80 lbs.(36 kg)	28"(711mm)	80 lbs.(36 kg)	28"(711mm)
Using 3 Hinges	120 lbs.(55 kg)	32"(813mm)	120 lbs.(55 kg)	32"(813mm)

***NOTE:** Do not exceed either maximum weight or width when choosing proper quantity of hinges.

Important Information:

This hinge contains a dual degree pivot pin. The pivot pin is set for the door to close 5 degrees inwards from the normal closing position. You have the option of altering the closing position of the door 5 degrees (back to normal closing position) by utilizing the opposite side of the pivot pin, which has been pre-machined (see Section 3 of Cat. No. SDT20 Frameless Shower Door Guide for this procedure). Special order custom pivot pins are available (Cat.No. GENP1N) that can be machined at any angle up to 45 degrees.

Specifications:

Glass Sizes: 3/8" (10mm) to 1/2" (12mm) thick tempered safety glass
Construction: Solid brass
Closing Type: Self-centering when within 15° of closed position
Cutout Required
Includes: Gaskets, screws and template

Use of Gaskets:

For 3/8"(10mm) Glass: Use one thick gasket on each side
For 1/2"(12mm) Glass: Use one thin gasket on each side

Recommendations:

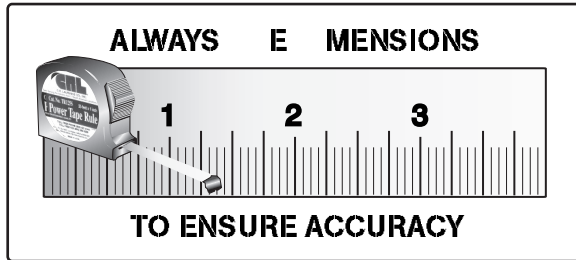
For public safety, we recommend the use of only tempered safety glass. Do not use power tools when installing these hinges.

Maintenance Guidelines:

- Our hinges are greased at the factory for quiet and trouble-free operation. If there is any squeaking that occurs after installation, put a drop of "3 in 1 Oil" (also known as "household oil") on the white nylon washer that the hinge body pivots on. This washer is the component that acts as a buffer, so the body of the hinge doesn't pivot directly on the brass center block. This solution doesn't require the disassembly of the hinge. **Note: Do not use spray lubricant on these hinges.** If the hinge has been disassembled, upon re-assembly, use white lithium grease to lubricate the interior mechanism.
- Never use an abrasive cleaner on the hardware. Many of the components are coated with a clear lacquer that will be irreparably damaged if subjected to harsh, abrasive chemicals. Advise your customer that drying the hardware with a clean, soft towel on a daily basis is the best way to maintain the hardware. If mineral deposits build-up, mix a couple of drops of a mild liquid soap (such as Ivory or a similar product) into a cup of warm water. Using a soft, non-abrasive cloth, clean the hardware. Rinse thoroughly with clean, warm water and dry.



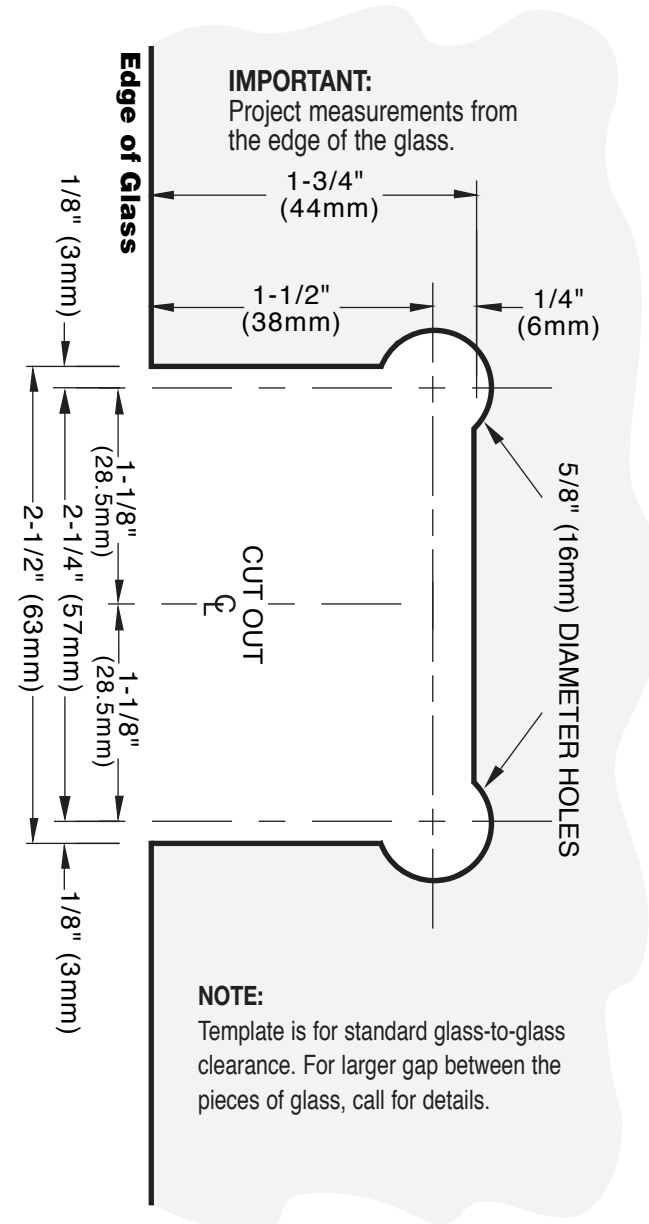
C.R. LAURENCE CO., INC.
PROFESSIONAL QUALITY



PINNACLE

180° Glass-to-Glass Hinge (5° Offset)

CAT No. PIN580

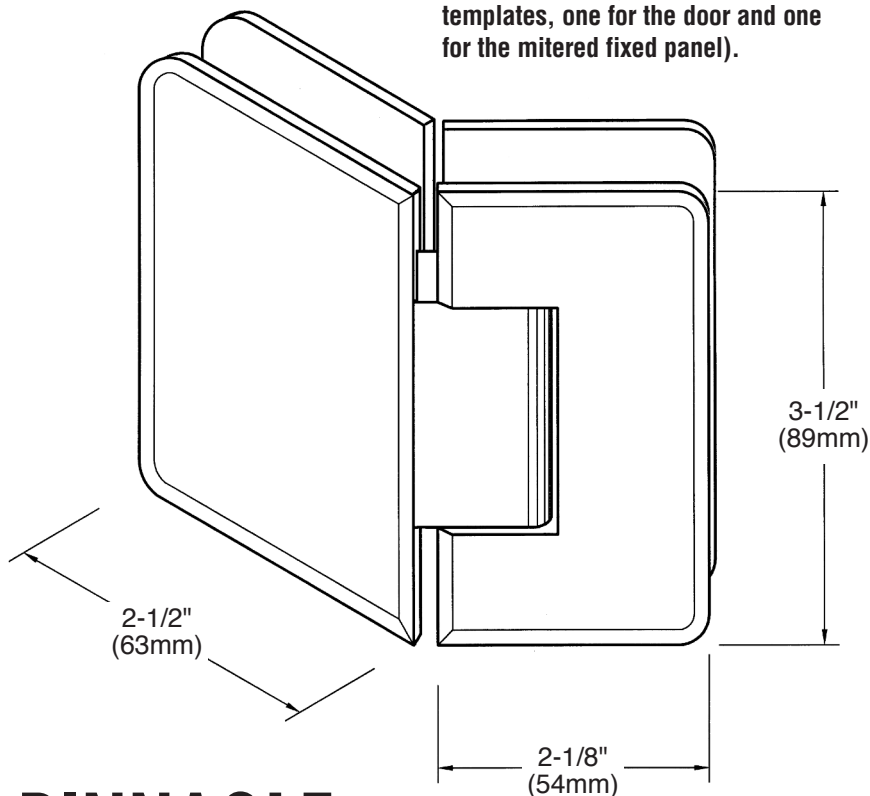


C.R. Laurence Co., Inc.
 crlaurence.com

For technical assistance in the United States call toll free (800) 421-6144; from Canada call toll free (877) 421-6144; Outside the U.S. and Canada call (323) 588-1281. Ask for Tech Sales at Extension 7740. Toll free fax (800) 458-7496.



(This hinge requires two different templates, one for the door and one for the mitered fixed panel).



*** SEE TEMPLATE ON BACK ***
Refer to Dimensions Shown
to Ensure Accuracy

PINNACLE

135° Glass-to-Glass Hinge

CAT No. PIN345 (Adjustable)

*Maximum Door Capacities	3/8" (10mm) Glass		1/2" (12mm) Glass	
	Weight	Width	Weight	Width
Using 2 Hinges	80 lbs.(36 kg)	28"(711mm)	80 lbs.(36 kg)	28"(711mm)
Using 3 Hinges	120 lbs.(55 kg)	32"(813mm)	120 lbs.(55 kg)	32"(813mm)

***NOTE:** Do not exceed either maximum weight or width when choosing proper quantity of hinges.

Important Information:

- 1) This hinge adjusts to accommodate the desired door closing position up to 90°, after the door is installed. This is achieved by loosening the Allen set screws (located on the rear of center block), moving the door to the desired closing position, and then tightening the screws. The precise closing position has now been changed to the angle you desire.
- 2) The fixed panel measurements must be taken from the outside of the miter.

Specifications:

Glass Sizes: 3/8" (10mm) to 1/2" (12mm) thick tempered safety glass

Construction: Solid brass

Closing Type: Self-centering when within 15° of closed position

Cutout Required

Includes: Gaskets, screws and template

Use of Gaskets:

For 3/8"(10mm) Glass: Use one thick gasket on each side

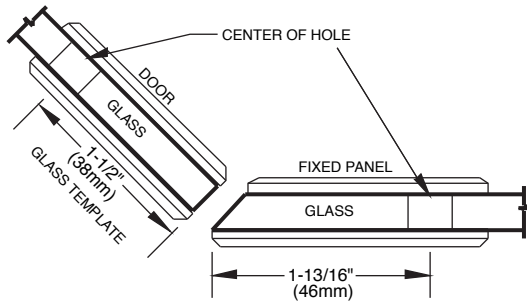
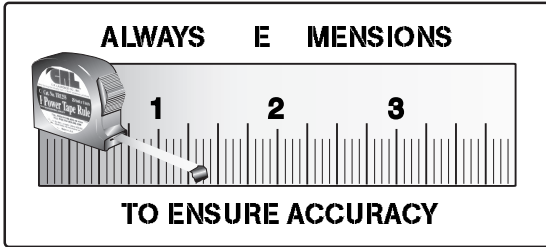
For 1/2"(12mm) Glass: Use one thin gasket on each side

Recommendations:

For public safety, we recommend the use of only tempered safety glass.
Do not use power tools when installing these hinges.

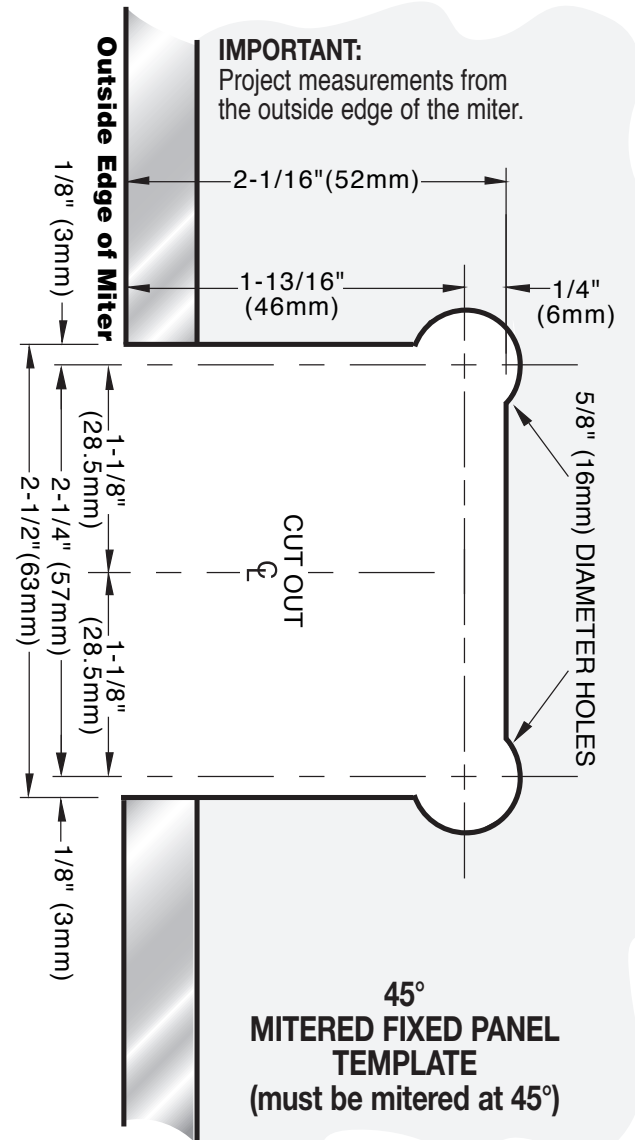
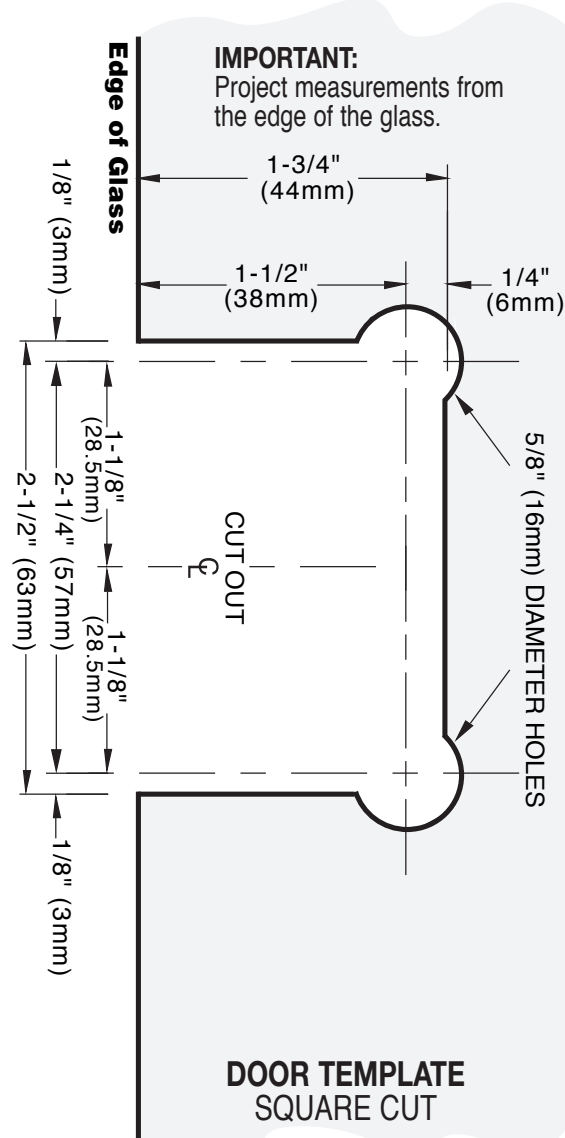
Maintenance Guidelines:

- Our hinges are greased at the factory for quiet and trouble-free operation. If there is any squeaking that occurs after installation, put a drop of "3 in 1 Oil" (also known as "household oil") on the white nylon washer that the hinge body pivots on. This washer is the component that acts as a buffer, so the body of the hinge doesn't pivot directly on the brass center block. This solution doesn't require the disassembly of the hinge.
Note: Do not use spray lubricant on these hinges. If the hinge has been disassembled, upon re-assembly, use white lithium grease to lubricate the interior mechanism.
- Never use an abrasive cleaner on the hardware. Many of the components are coated with a clear lacquer that will be irreparably damaged if subjected to harsh, abrasive chemicals. Advise your customer that drying the hardware with a clean, soft towel on a daily basis is the best way to maintain the hardware. If mineral deposits build-up, mix a couple of drops of a mild liquid soap (such as Ivory or a similar product) into a cup of warm water. Using a soft, non-abrasive cloth, clean the hardware. Rinse thoroughly with clean, warm water and dry.



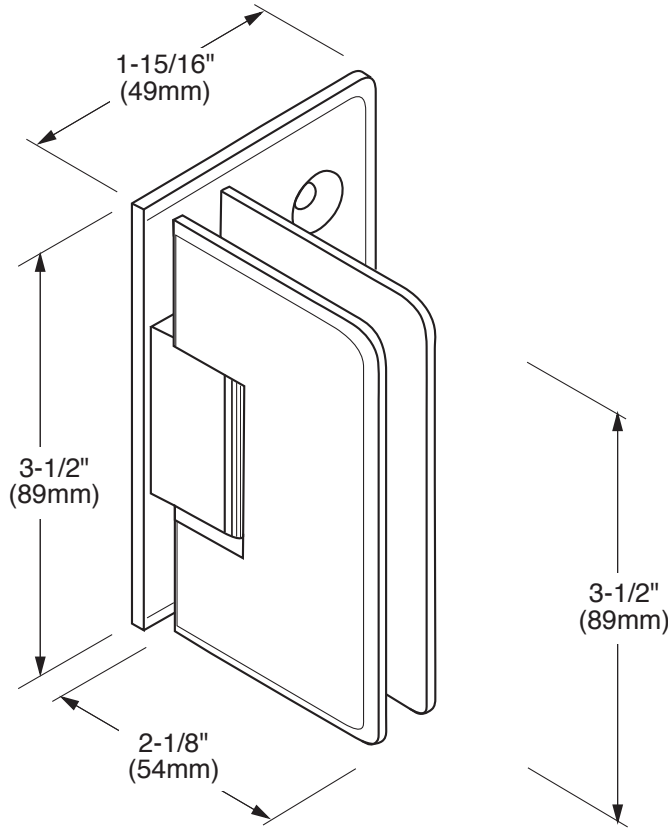
PINNACLE

135° Glass-to-Glass Hinge
CAT No. PIN345 (Adjustable)





C.R. LAURENCE CO., INC.
PROFESSIONAL QUALITY



PINNACLE

Wall Mount Hinge- Offset Back Plate (5° Offset)

Cat No. PIN544

* Maximum Door Capacities	3/8" (10mm) Glass		1/2" (12mm) Glass	
	Weight	Width	Weight	Width
Using 2 Hinges	80 lbs.(36 kg)	28" (711mm)	80 lbs.(36 kg)	28"(711mm)
Using 3 Hinges	120 lbs.(55 kg)	32" (813mm)	120 lbs.(55 kg)	32"(813mm)

*NOTE: Do not exceed either maximum weight or width when choosing proper quantity of hinges.

Important Information:

This hinge contains a dual degree pivot pin. The pivot pin is set for the door to close 5 degrees inwards from the normal closing position. You have the option of altering the closing position of the door 5 degrees (back to normal closing position) by utilizing the opposite side of the pivot pin, which has been pre-machined (see Section 3 of Cat. No. SDT21 Frameless Shower Door Guide for this procedure). Special order custom pivot pins are available (Cat.No. GENP1N) that can be machined at any angle up to 45 degrees.

Specifications:

- Glass Sizes:** 3/8" (10mm) to 1/2" (12mm) thick tempered safety glass
- Construction:** Solid brass
- Closing Type:** Self-centering when within 15° of closed position
- Cutout Required**
- Includes:** Gaskets, screws and template

Use of Gaskets:

- For 3/8"(10mm) Glass:** Use one thick gasket on each side
- For 1/2"(12mm) Glass:** Use one thin gasket on each side

Recommendations:

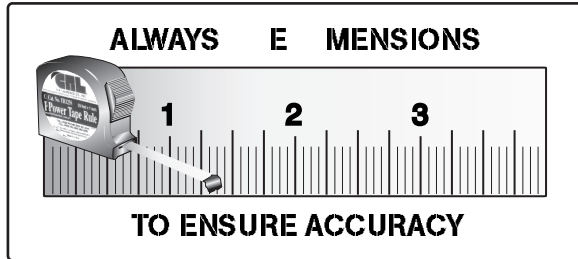
For public safety, we recommend the use of only tempered safety glass. Do not use power tools when installing these hinges.

Maintenance Guidelines:

- Our hinges are greased at the factory for quiet and trouble-free operation. If there is any squeaking that occurs after installation, put a drop of "3 in 1 Oil" (also known as "household oil") on the white nylon washer that the hinge body pivots on. This washer is the component that acts as a buffer, so the body of the hinge doesn't pivot directly on the brass center block. This solution doesn't require the disassembly of the hinge. **Note: Do not use spray lubricant on these hinges.** If the hinge has been disassembled, upon re-assembly, use white lithium grease to lubricate the interior mechanism.
- Never use an abrasive cleaner on the hardware. Many of the components are coated with a clear lacquer that will be irreparably damaged if subjected to harsh, abrasive chemicals. Advise your customer that drying the hardware with a clean, soft towel on a daily basis is the best way to maintain the hardware. If mineral deposits build-up, mix a couple of drops of a mild liquid soap (such as Ivory or a similar product) into a cup of warm water. Using a soft, non-abrasive cloth, clean the hardware. Rinse thoroughly with clean, warm water and dry.



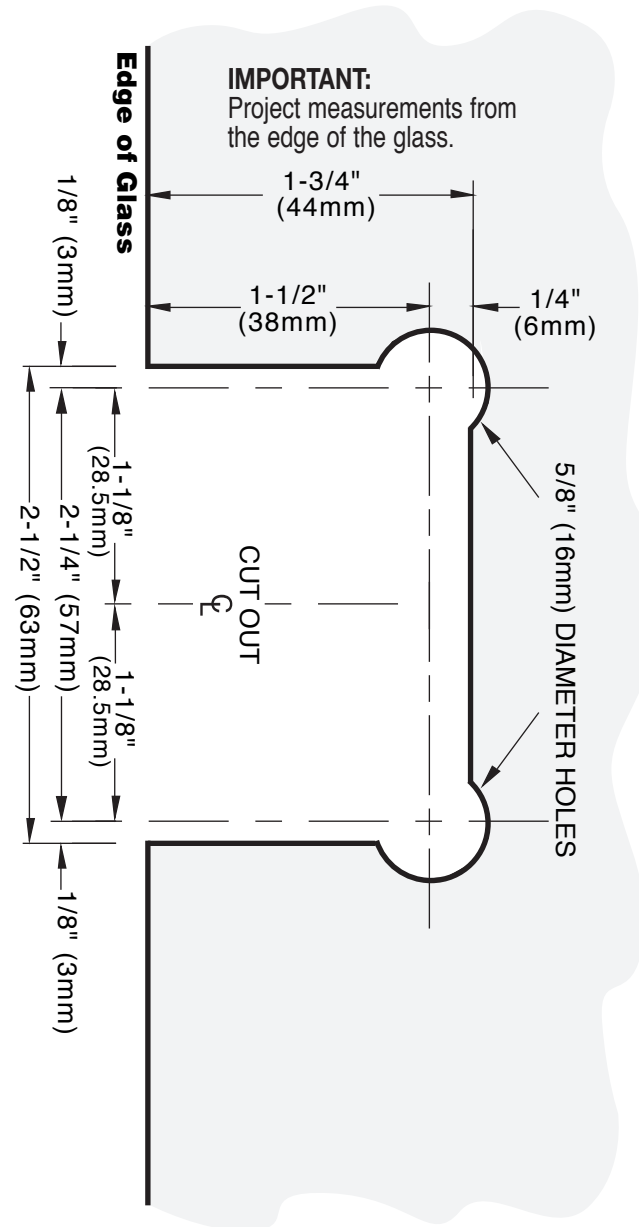
C.R. LAURENCE CO., INC.
PROFESSIONAL QUALITY



PINNACLE

Wall Mount Hinge- Offset Back Plate (5° Offset)

CAT No. PIN544



4C-18D

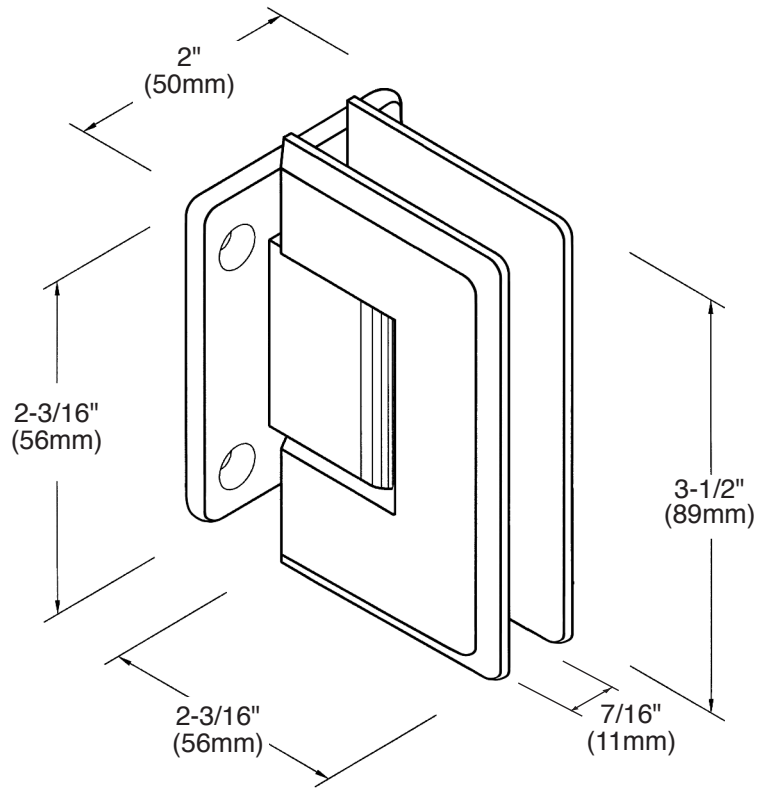
C.R. Laurence Co., Inc.
 crlaurence.com

For technical assistance in the United States call toll free (800) 421-6144; from Canada call toll free (877) 421-6144; Outside the U.S. and Canada call (323) 588-1281. Ask for Tech Sales at Extension 7740. Toll free fax (800) 458-7496.

© Copyright 2005, C.R. Laurence Co., Inc_SDT21_US.



C.R. LAURENCE CO., INC.
PROFESSIONAL QUALITY



*** SEE TEMPLATE ON BACK ***
 Refer to Dimensions Shown
 to Ensure Accuracy

PINNACLE

Wall Mount Hinge – Short Back Plate

CAT No. P1N074

*Maximum Door Capacities	3/8" (10mm) Glass		1/2" (12mm) Glass	
	Weight	Width	Weight	Width
Using 2 Hinges	80 lbs.(36 kg)	28"(711mm)	80 lbs.(36 kg)	28"(711mm)
Using 3 Hinges	120 lbs.(54 kg)	32"(813mm)	120 lbs.(54 kg)	32"(813mm)

***NOTE:** Do not exceed either maximum weight or width when choosing proper quantity of hinges.

Important Information:

- 1) Cat. No. PIN074 Short Back Plate Pinnacle Wall Mount Hinge offers two different templates. The Regular Clearance Template allows 1/8" (3mm) to 1/4" (6mm) clearance. The Tight Clearance Template allows for a tighter clearance of 1/32" (1mm) to 5/32" (4mm), and is commonly used on installations where vinyl seals are not being used.
- 2) This hinge contains a dual degree pivot pin. The pivot pin is set for normal door closing position. You have the option of altering the closing position of the door 5 degrees inward by utilizing the opposite side of the pivot pin, which has been pre-machined (see Section 3 of Cat. No. SDT21 Frameless Shower Door Guide for this procedure). Special order custom pivot pins are available (Cat.No. GENP1N) that can be machined at any angle up to 45 degrees

Specifications:

Glass Sizes: 3/8" (10mm) to 1/2" (12mm) thick tempered safety glass

Construction: Solid brass

Closing Type: Self-centering when within 15° of closed position

Cutout Required

Includes: Gaskets, screws and template

Use of Gaskets:

For 3/8"(10mm) Glass: Use one thick gasket on each side

For 1/2"(12mm) Glass: Use one thin gasket on each side

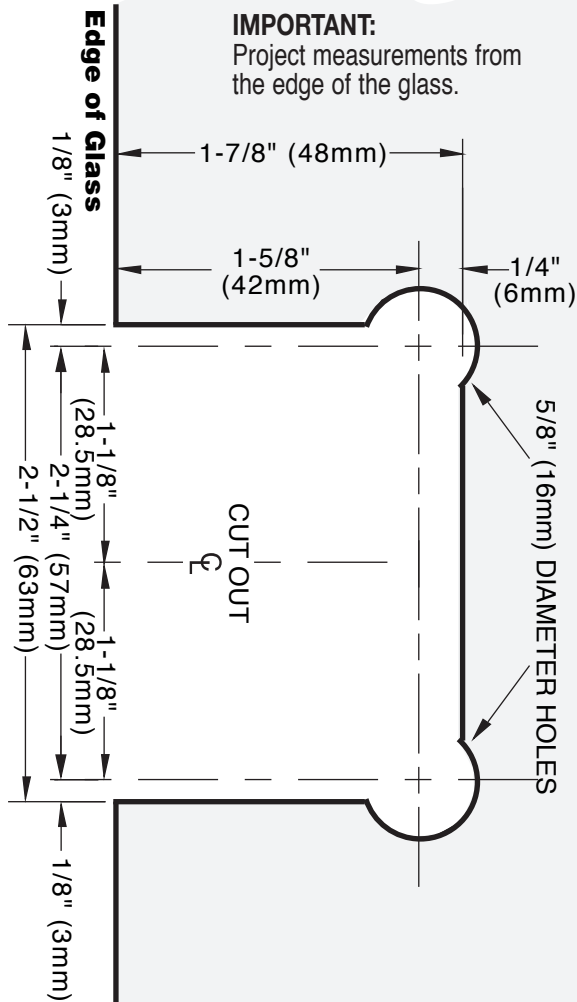
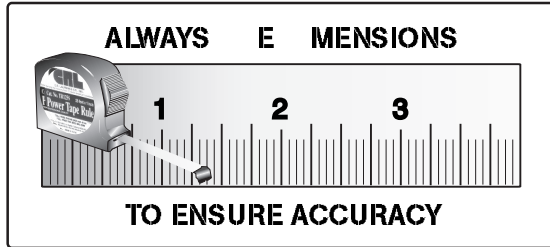
Recommendation:

For public safety, we recommend the use of only tempered safety glass. Do not use power tools when installing these hinges.

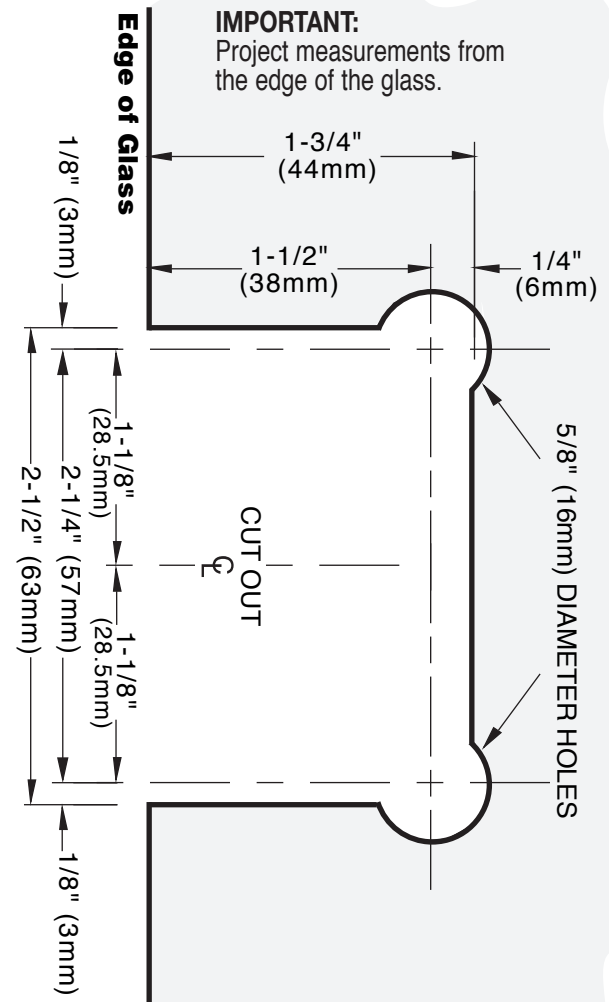
Maintenance Guidelines:

- Our hinges are greased at the factory for quiet and trouble-free operation. If there is any squeaking that occurs after installation, put a drop of "3 in 1 Oil" (also known as "household oil") on the white nylon washer that the hinge body pivots on. This washer is the component that acts as a buffer, so the body of the hinge doesn't pivot directly on the brass center block. This solution doesn't require the disassembly of the hinge. **Note: Do not use spray lubricant on these hinges.** If the hinge has been disassembled, upon re-assembly, use white lithium grease to lubricate the interior mechanism.
- Never use an abrasive cleaner on the hardware. Many of the components are coated with a clear lacquer that will be irreparably damaged if subjected to harsh, abrasive chemicals. Advise your customer that drying the hardware with a clean, soft towel on a daily basis is the best way to maintain the hardware. If mineral deposits build-up, mix a couple of drops of a mild liquid soap (such as Ivory or a similar product) into a cup of warm water. Using a soft, non-abrasive cloth, clean the hardware. Rinse thoroughly with clean, warm water and dry.

4C-18E



TIGHT CLEARANCE TEMPLATE
(1/32" (1mm) to 5/32" (4mm) Clearance)



REGULAR CLEARANCE TEMPLATE
(1/8" (3mm) to 1/4" (6mm) Clearance)

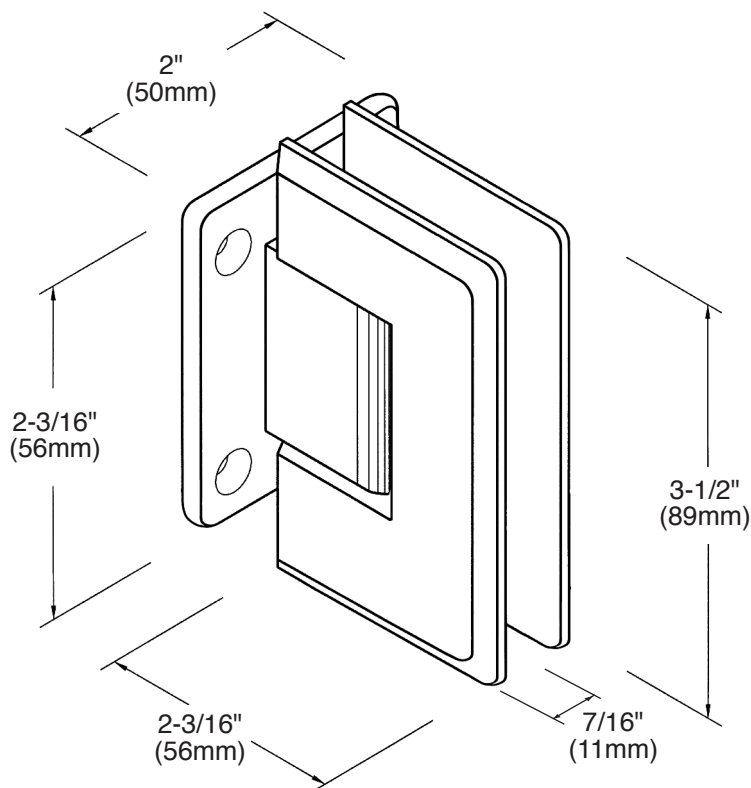
PINNACLE

Wall Mount Hinge – Short Back Plate

Cat No. P1N074



C.R. LAURENCE CO., INC.
PROFESSIONAL QUALITY



*** SEE TEMPLATE ON BACK ***
Refer to Dimensions Shown
to Ensure Accuracy

PINNACLE

Wall Mount Hinge – Short Back Plate (5° Offset)

CAT No. PIN574

*Maximum Door Capacities	3/8" (10mm) Glass		1/2" (12mm) Glass	
	Weight	Width	Weight	Width
Using 2 Hinges	80 lbs.(36 kg)	28"(711mm)	80 lbs.(36 kg)	28"(711mm)
Using 3 Hinges	120 lbs.(54 kg)	32"(813mm)	120 lbs.(54 kg)	32"(813mm)

***NOTE:** Do not exceed either maximum weight or width when choosing proper quantity of hinges.

Important Information:

- 1) Cat. No. PIN574 Short Back Plate Pinnacle Wall Mount Hinge offers two different templates. The Regular Clearance Template allows 1/8" (3mm) to 1/4" (6mm) clearance. The Tight Clearance Template allows for a tighter clearance of 1/32" (1mm) to 5/32" (4mm), and is commonly used on installations where vinyl seals are not being used.
- 2) This hinge contains a dual degree pivot pin. The pivot pin is set for 5 degrees inward door closing position. You have the option of altering the closing position of the door 5 degrees (back to standard closing position) by utilizing the opposite side of the pivot pin, which has been pre-machined (see Section 3 of Cat. No. SDT21 Frameless Shower Door Guide for this procedure). Special order custom pivot pins are available (Cat.No. GENP1N) that can be machined at any angle up to 45 degrees

Specifications:

Glass Sizes: 3/8" (10mm) to 1/2" (12mm) thick tempered safety glass

Construction: Solid brass

Closing Type: Self-centering when within 15° of closed position

Cutout Required

Includes: Gaskets, screws and template

Use of Gaskets:

For 3/8"(10mm) Glass: Use one thick gasket on each side

For 1/2"(12mm) Glass: Use one thin gasket on each side

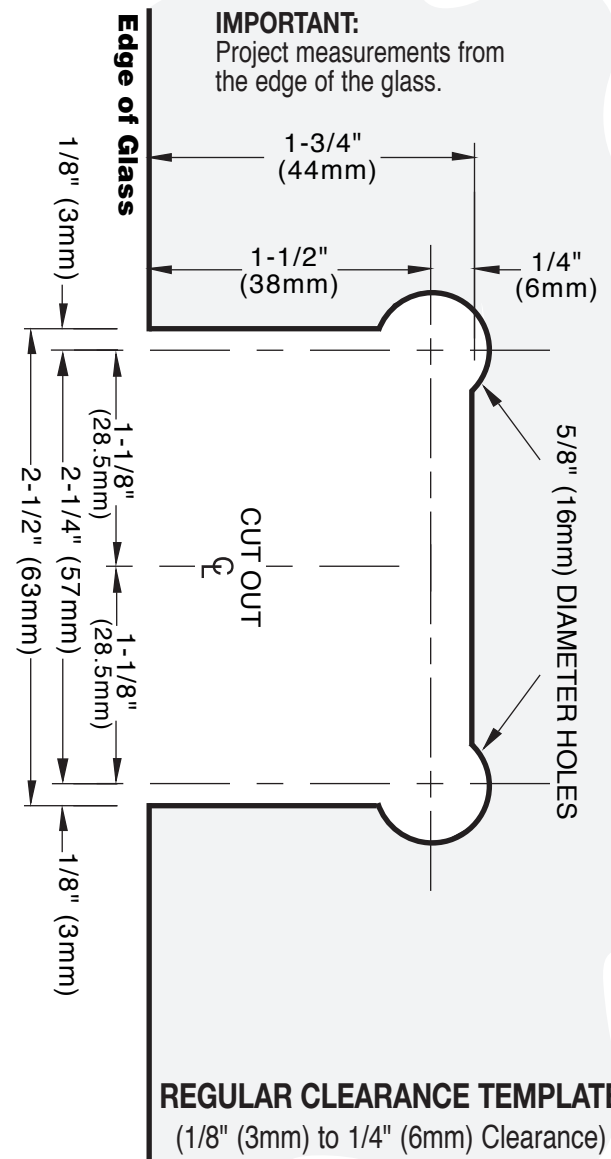
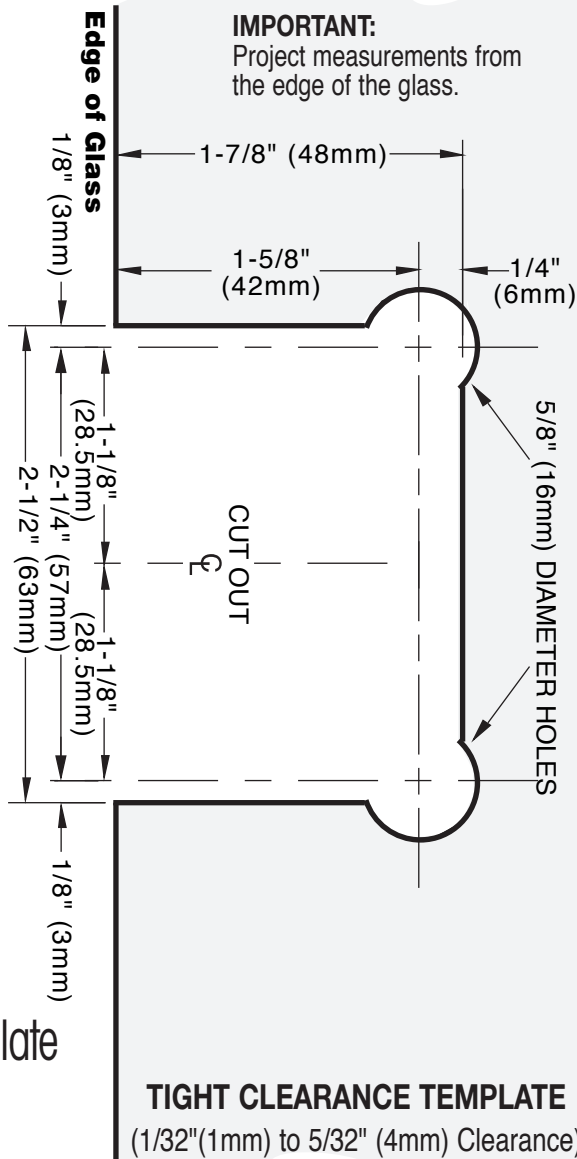
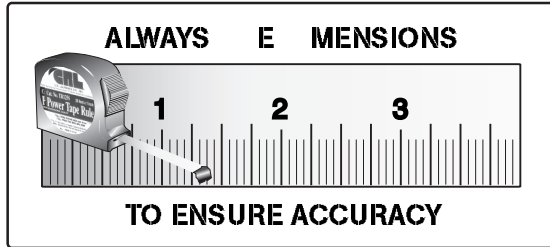
Recommendation:

For public safety, we recommend the use of only tempered safety glass. Do not use power tools when installing these hinges.

Maintenance Guidelines:

- Our hinges are greased at the factory for quiet and trouble-free operation. If there is any squeaking that occurs after installation, put a drop of "3 in 1 Oil" (also known as "household oil") on the white nylon washer that the hinge body pivots on. This washer is the component that acts as a buffer, so the body of the hinge doesn't pivot directly on the brass center block. This solution doesn't require the disassembly of the hinge. **Note: Do not use spray lubricant on these hinges.** If the hinge has been disassembled, upon re-assembly, use white lithium grease to lubricate the interior mechanism.
- Never use an abrasive cleaner on the hardware. Many of the components are coated with a clear lacquer that will be irreparably damaged if subjected to harsh, abrasive chemicals. Advise your customer that drying the hardware with a clean, soft towel on a daily basis is the best way to maintain the hardware. If mineral deposits build-up, mix a couple of drops of a mild liquid soap (such as Ivory or a similar product) into a cup of warm water. Using a soft, non-abrasive cloth, clean the hardware. Rinse thoroughly with clean, warm water and dry.

4C-18G



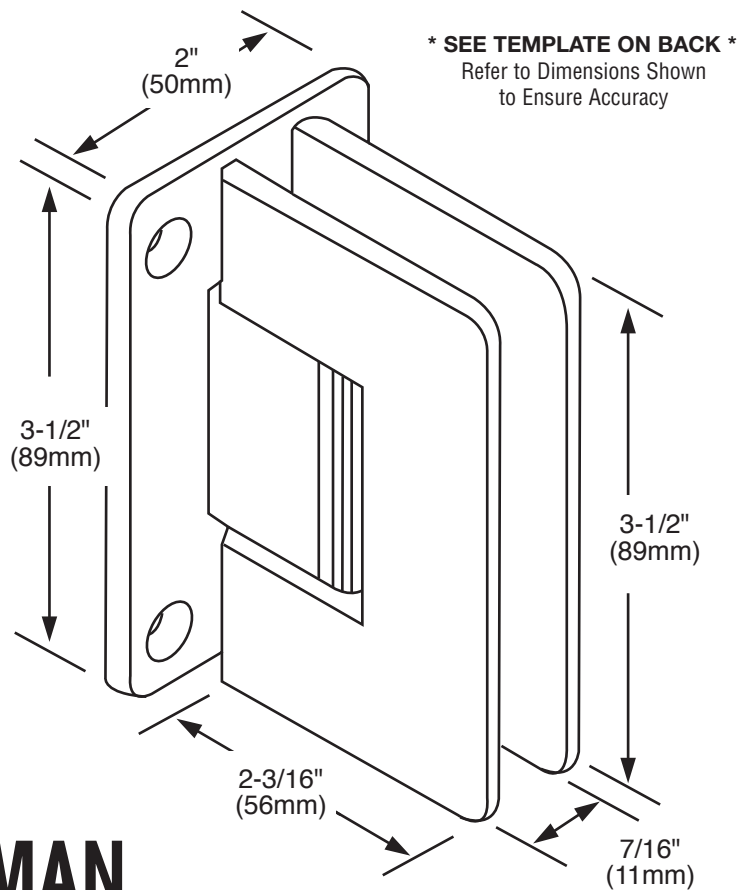
PINNACLE

Wall Mount Hinge – Short Back Plate
(5° Offset)

CAT No. P1N574



C.R. LAURENCE CO., INC.
PROFESSIONAL QUALITY



ROMAN

Wall Mount Hinge – Full Back Plate

CAT. No. ROM037

*Maximum Door Capacities	3/8" (10mm) Glass		1/2" (12mm) Glass	
	Weight	Width	Weight	Width
Using 2 Hinges	80 lbs.(36 kg)	28"(711mm)	80 lbs.(36 kg)	28"(711mm)
Using 3 Hinges	120 lbs.(54 kg)	32"(813mm)	120 lbs.(54 kg)	32"(813mm)

***NOTE:** Do not exceed either maximum weight or width when choosing proper quantity of hinges.

Important Information:

This hinge contains a dual degree pivot pin. The pivot pin is set for normal door closing position. You have the option of altering the closing position of the door 5 degrees inward by utilizing the opposite side of the pivot pin, which has been pre-machined (see Section 3 of Cat. No. SDT21 Frameless Shower Door Guide for this procedure). Special order custom pivot pins are available (Cat.No. GENP1N) that can be machined at any angle up to 45 degrees.

Specifications:

Glass Sizes: 3/8" (10mm) to 1/2" (12mm) thick tempered safety glass

Construction: Solid brass

Closing Type: Self-centering when within 15° of closed position

Cutout Required

Includes: Gaskets, screws and template

Use of Gaskets:

For 3/8" (10mm) Glass: Use one thick gasket on each side

For 1/2" (12mm) Glass: Use one thin gasket on each side

Recommendations:

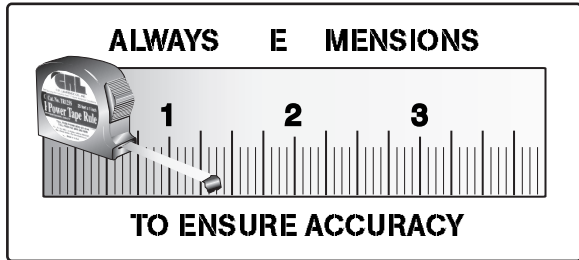
For public safety, we recommend the use of only tempered safety glass. Do not use power tools when installing these hinges.

Maintenance Guidelines:

- Our hinges are greased at the factory for quiet and trouble-free operation. If there is any squeaking that occurs after installation, put a drop of "3 in 1 Oil" (also known as "household oil") on the white nylon washer that the hinge body pivots on. This washer is the component that acts as a buffer, so the body of the hinge doesn't pivot directly on the brass center block. This solution doesn't require the disassembly of the hinge. **Note: Do not use spray lubricant on these hinges.** If the hinge has been disassembled, upon re-assembly, use white lithium grease to lubricate the interior mechanism.
- Never use an abrasive cleaner on the hardware. Many of the components are coated with a clear lacquer that will be irreparably damaged if subjected to harsh, abrasive chemicals. Advise your customer that drying the hardware with a clean, soft towel on a daily basis is the best way to maintain the hardware. If mineral deposits build-up, mix a couple of drops of a mild liquid soap (such as Ivory or a similar product) into a cup of warm water. Using a soft, non-abrasive cloth, clean the hardware. Rinse thoroughly with clean, warm water and dry.



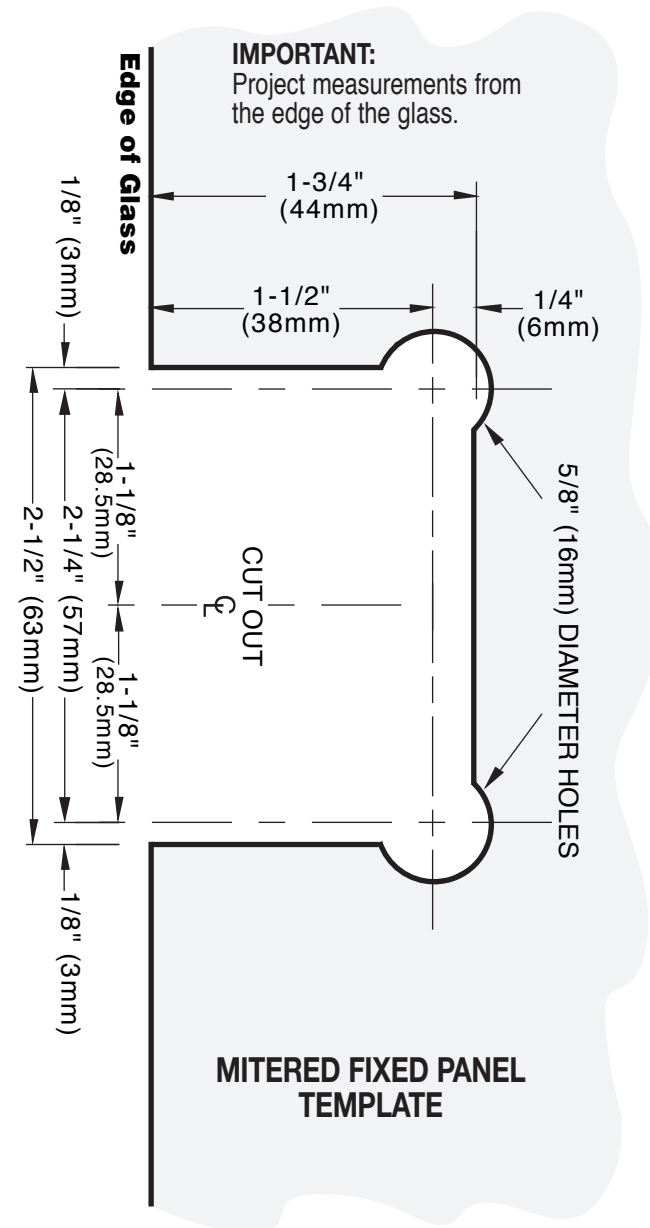
C.R. LAURENCE CO., INC.
PROFESSIONAL QUALITY



ROMAN

Wall Mount Hinge – Full Back Plate

CAT. No. ROM037

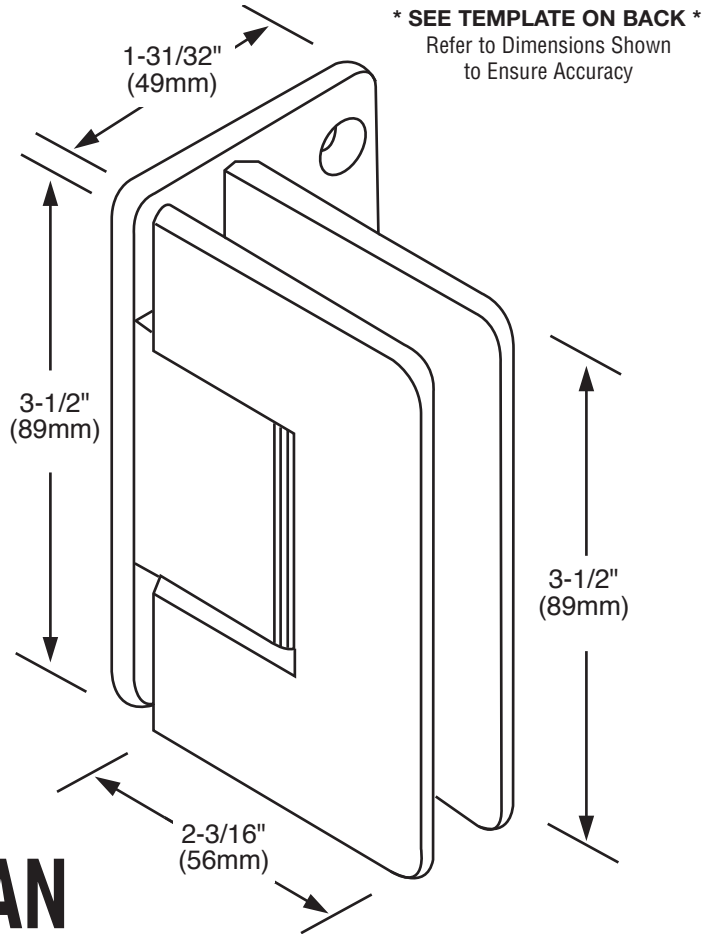


C.R. Laurence Co., Inc.
 crlaurence.com

For technical assistance in the United States call toll free (800) 421-6144; from Canada call toll free (877) 421-6144; Outside the U.S. and Canada call (323) 588-1281. Ask for Tech Sales at Extension 7740. Toll free fax (800) 458-7496.



C.R. LAURENCE CO., INC.
PROFESSIONAL QUALITY



Important Information:

This hinge contains a dual degree pivot pin. The pivot pin is set for normal door closing position. You have the option of altering the closing position of the door 5 degrees inward by utilizing the opposite side of the pivot pin, which has been pre-machined (see Section 3 of Cat. No. SDT21 Frameless Shower Door Guide for this procedure). Special order custom pivot pins are available (Cat.No. GENP1N) that can be machined at any angle up to 45 degrees.

Specifications:

Glass Sizes: 3/8" (10mm) to 1/2" (12mm) thick tempered safety glass
Construction: Solid brass
Closing Type: Self-centering when within 15° of closed position
Cutout Required
Includes: Gaskets, screws and template

Use of Gaskets:

For 3/8"(10mm) Glass: Use one thick gasket on each side
For 1/2"(12mm) Glass: Use one thin gasket on each side

Recommendations:

For public safety, we recommend the use of only tempered safety glass. Do not use power tools when installing these hinges.

Maintenance Guidelines:

- Our hinges are greased at the factory for quiet and trouble-free operation. If there is any squeaking that occurs after installation, put a drop of "3 in 1 Oil" (also known as "household oil") on the white nylon washer that the hinge body pivots on. This washer is the component that acts as a buffer, so the body of the hinge doesn't pivot directly on the brass center block. This solution doesn't require the disassembly of the hinge. **Note: Do not use spray lubricant on these hinges.** If the hinge has been disassembled, upon re-assembly, use white lithium grease to lubricate the interior mechanism.
- Never use an abrasive cleaner on the hardware. Many of the components are coated with a clear lacquer that will be irreparably damaged if subjected to harsh, abrasive chemicals. Advise your customer that drying the hardware with a clean, soft towel on a daily basis is the best way to maintain the hardware. If mineral deposits build-up, mix a couple of drops of a mild liquid soap (such as Ivory or a similar product) into a cup of warm water. Using a soft, non-abrasive cloth, clean the hardware. Rinse thoroughly with clean, warm water and dry.

ROMAN

Wall Mount Hinge – Offset Back Plate

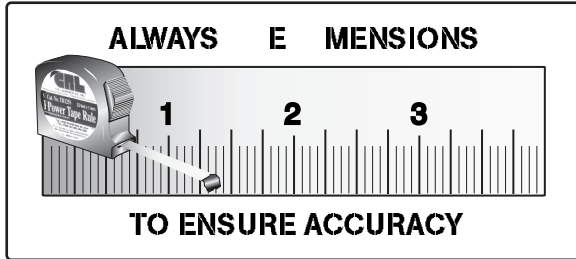
CAT. No. ROM044

*Maximum Door Capacities	3/8" (10mm) Glass		1/2" (12mm) Glass	
	Weight	Width	Weight	Width
Using 2 Hinges	80 lbs.(36 kg)	28"(711mm)	80 lbs.(36 kg)	28"(711mm)
Using 3 Hinges	120 lbs.(54 kg)	32"(813mm)	120 lbs.(54 kg)	32"(813mm)

***NOTE:** Do not exceed either maximum weight or width when choosing proper quantity of hinges.



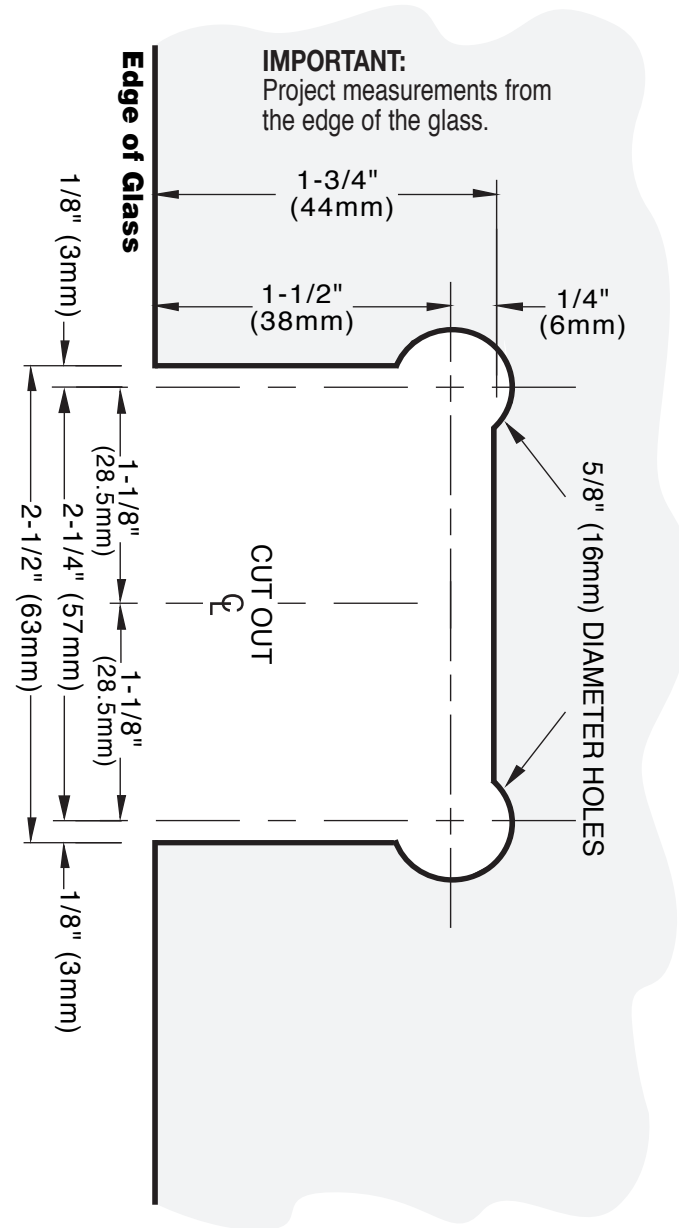
C.R. LAURENCE CO., INC.
PROFESSIONAL QUALITY



ROMAN

Wall Mount Hinge – Offset Back Plate

CAT. No. ROM044

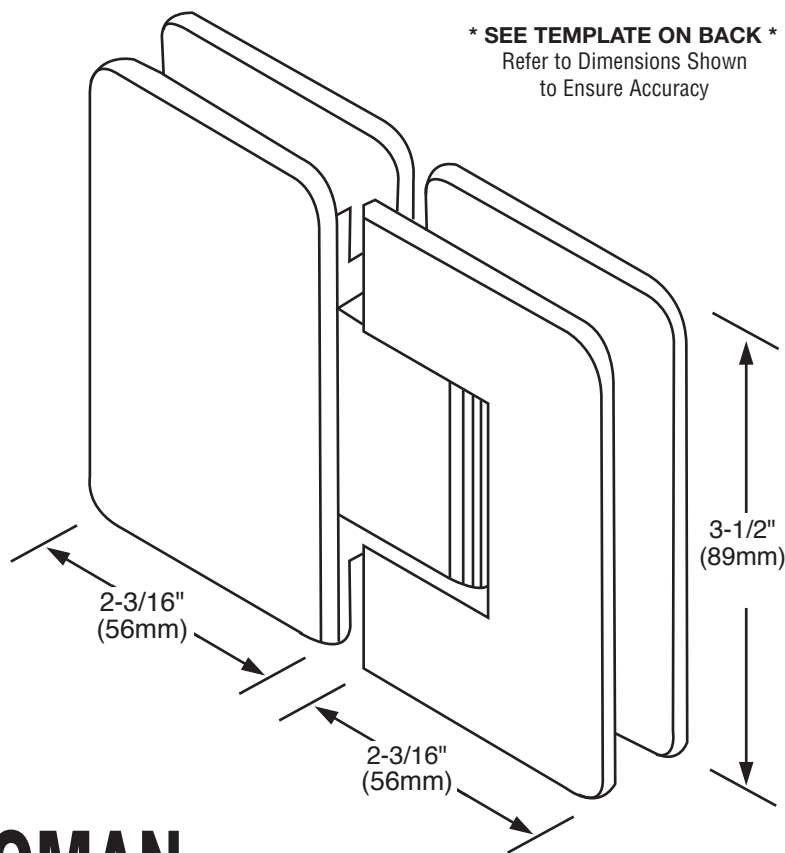


C.R. Laurence Co., Inc.
 crlaurence.com

For technical assistance in the United States call toll free (800) 421-6144; from Canada call toll free (877) 421-6144; Outside the U.S. and Canada call (323) 588-1281. Ask for Tech Sales at Extension 7740. Toll free fax (800) 458-7496.



C.R. LAURENCE CO., INC.
PROFESSIONAL QUALITY



*** SEE TEMPLATE ON BACK ***
Refer to Dimensions Shown
to Ensure Accuracy

ROMAN

180° Glass-to-Glass Hinge

CAT. No. ROM180

*Maximum Door Capacities	3/8" (10mm) Glass		1/2" (12mm) Glass	
	Weight	Width	Weight	Width
Using 2 Hinges	80 lbs.(36 kg)	28"(711mm)	80 lbs.(36 kg)	28"(711mm)
Using 3 Hinges	120 lbs.(54 kg)	32"(813mm)	120 lbs.(54 kg)	32"(813mm)

***NOTE:** Do not exceed either maximum weight or width when choosing proper quantity of hinges.

Important Information:

This hinge contains a dual degree pivot pin. The pivot pin is set for normal door closing position. You have the option of altering the closing position of the door 5 degrees inward by utilizing the opposite side of the pivot pin, which has been pre-machined (see Section 3 of Cat. No. SDT21 Frameless Shower Door Guide for this procedure). Special order custom pivot pins are available (Cat.No. GENP1N) that can be machined at any angle up to 45 degrees.

Specifications:

- Glass Sizes:** 3/8" (10mm) to 1/2" (12mm) thick tempered safety glass
- Construction:** Solid brass
- Closing Type:** Self-centering when within 15° of closed position
- Cutout Required**
- Includes:** Gaskets, screws and template

Use of Gaskets:

- For 3/8"(10mm) Glass:** Use one thick gasket on each side
- For 1/2"(12mm) Glass:** Use one thin gasket on each side

Recommendations:

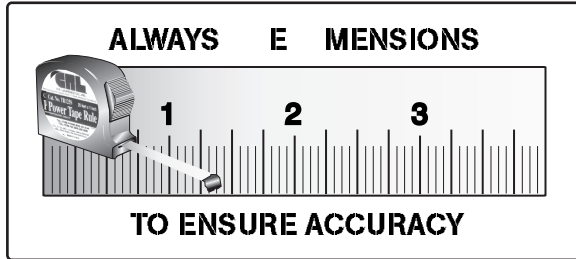
For public safety, we recommend the use of only tempered safety glass. Do not use power tools when installing these hinges.

Maintenance Guidelines:

- Our hinges are greased at the factory for quiet and trouble-free operation. If there is any squeaking that occurs after installation, put a drop of "3 in 1 Oil" (also known as "household oil") on the white nylon washer that the hinge body pivots on. This washer is the component that acts as a buffer, so the body of the hinge doesn't pivot directly on the brass center block. This solution doesn't require the disassembly of the hinge. **Note: Do not use spray lubricant on these hinges.** If the hinge has been disassembled, upon re-assembly, use white lithium grease to lubricate the interior mechanism.
- Never use an abrasive cleaner on the hardware. Many of the components are coated with a clear lacquer that will be irreparably damaged if subjected to harsh, abrasive chemicals. Advise your customer that drying the hardware with a clean, soft towel on a daily basis is the best way to maintain the hardware. If mineral deposits build-up, mix a couple of drops of a mild liquid soap (such as Ivory or a similar product) into a cup of warm water. Using a soft, non-abrasive cloth, clean the hardware. Rinse thoroughly with clean, warm water and dry.

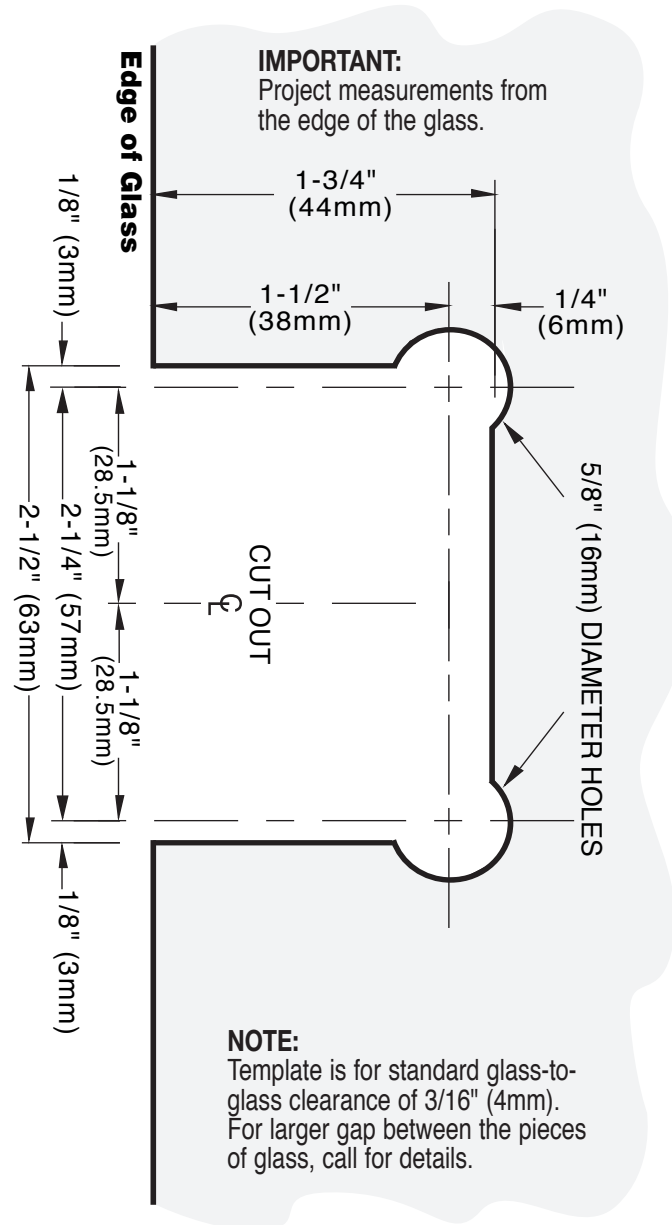


C.R. LAURENCE CO., INC.
 PROFESSIONAL QUALITY



ROMAN

180° Glass-to-Glass Hinge
 CAT. No. ROM180

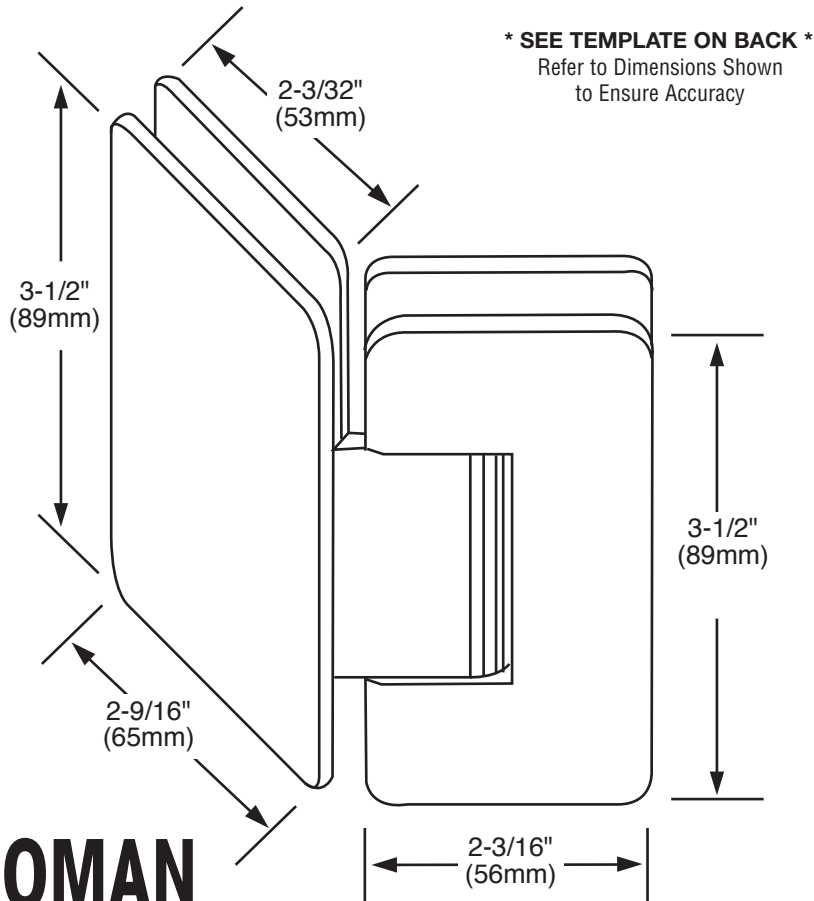


C.R. Laurence Co., Inc.
 crlaurence.com

For technical assistance in the United States call toll free (800) 421-6144; from Canada call toll free (877) 421-6144; Outside the U.S. and Canada call (323) 588-1281. Ask for Tech Sales at Extension 7740. Toll free fax (800) 458-7496.



C.R. LAURENCE CO., INC.
PROFESSIONAL QUALITY



*** SEE TEMPLATE ON BACK ***
Refer to Dimensions Shown
to Ensure Accuracy

ROMAN
135° Glass-to-Glass Hinge
CAT. No. ROM045

(This hinge requires two different templates, one for the door and one for the mitered fixed panel).

*Maximum Door Capacities	3/8" (10mm) Glass		1/2" (12mm) Glass	
	Weight	Width	Weight	Width
Using 2 Hinges	80 lbs.(36 kg)	28"(711mm)	80 lbs.(36 kg)	28"(711mm)
Using 3 Hinges	120 lbs.(54 kg)	32"(813mm)	120 lbs.(54 kg)	32"(813mm)

***NOTE:** Do not exceed either maximum weight or width when choosing proper quantity of hinges.

Important Information:

- 1) This hinge contains a dual degree pivot pin. The pivot pin is set for normal door closing position. You have the option of altering the closing position of the door 5 degrees inward by utilizing the opposite side of the pivot pin, which has been pre-machined (see Section 3 of Cat. No. SDT21 Frameless Shower Door Guide for this procedure). Special order custom pivot pins are available (Cat.No. GENP1N) that can be machined at any angle up to 45 degrees.
- 2) The fixed panel measurements must be taken from the outside of the miter.

Specifications:

Glass Sizes: 3/8" (10mm) to 1/2" (12mm) thick tempered safety glass
Construction: Solid brass
Closing Type: Self-centering when within 15° of closed position
Cutout Required
Includes: Gaskets, screws and template

Use of Gaskets:

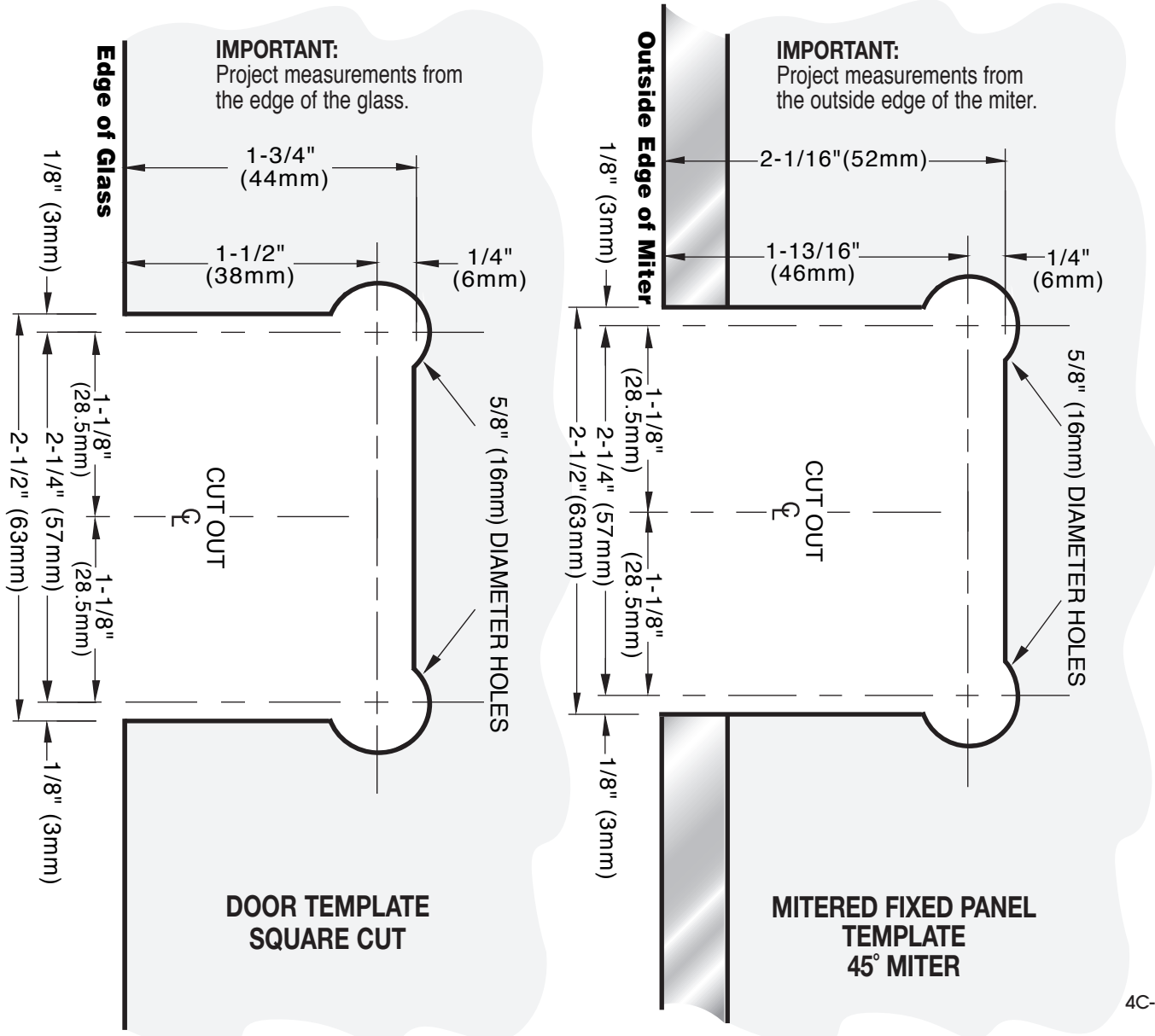
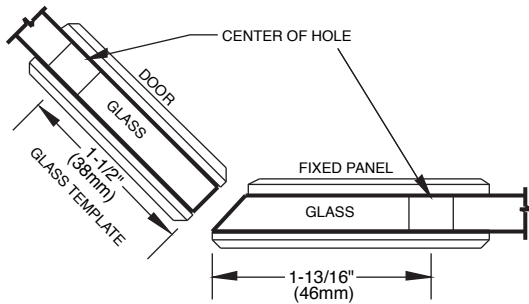
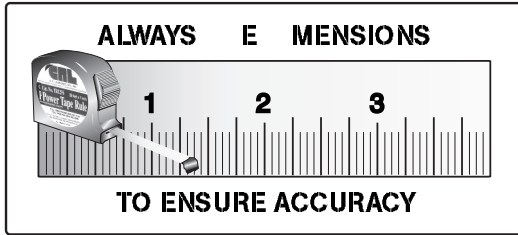
For 3/8"(10mm) Glass: Use one thick gasket on each side
For 1/2"(12mm) Glass: Use one thin gasket on each side

Recommendations:

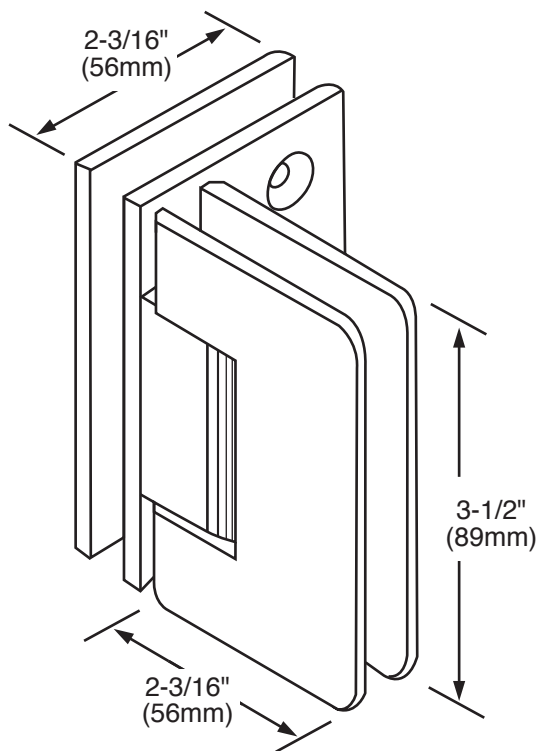
For public safety, we recommend the use of only tempered safety glass. Do not use power tools when installing these hinges.

Maintenance Guidelines:

- Our hinges are greased at the factory for quiet and trouble-free operation. If there is any squeaking that occurs after installation, put a drop of "3 in 1 Oil" (also known as "household oil") on the white nylon washer that the hinge body pivots on. This washer is the component that acts as a buffer, so the body of the hinge doesn't pivot directly on the brass center block. This solution doesn't require the disassembly of the hinge. **Note: Do not use spray lubricant on these hinges.** If the hinge has been disassembled, upon re-assembly, use white lithium grease to lubricate the interior mechanism.
- Never use an abrasive cleaner on the hardware. Many of the components are coated with a clear lacquer that will be irreparably damaged if subjected to harsh, abrasive chemicals. Advise your customer that drying the hardware with a clean, soft towel on a daily basis is the best way to maintain the hardware. If mineral deposits build-up, mix a couple of drops of a mild liquid soap (such as Ivory or a similar product) into a cup of warm water. Using a soft, non-abrasive cloth, clean the hardware. Rinse thoroughly with clean, warm water and dry.



ROMAN
135° Glass-to-Glass Hinge
Cat. No. ROM045



ROMAN

90° Glass-to-Glass Hinge

CAT. No. ROM092

*** SEE TEMPLATE ON BACK ***
Refer to Dimensions Shown
to Ensure Accuracy

*Maximum Door Capacities	3/8" (10mm) Glass		1/2" (12mm) Glass	
	Weight	Width	Weight	Width
Using 2 Hinges	80 lbs.(36 kg)	28"(711mm)	80 lbs.(36 kg)	28"(711mm)
Using 3 Hinges	120 lbs.(54 kg)	32"(813mm)	120 lbs.(54 kg)	32"(813mm)

***NOTE:** Do not exceed either maximum weight or width when choosing proper quantity of hinges.

Important Information:

- 1) This hinge contains a dual degree pivot pin. The pivot pin is set for normal door closing position. You have the option of altering the closing position of the door 5 degrees inward by utilizing the opposite side of the pivot pin, which has been pre-machined (see Section 3 of Cat. No. SDT21 Frameless Shower Door Guide for this procedure). Special order custom pivot pins are available (Cat.No. GENP1N) that can be machined at any angle up to 45 degrees.
- 2) The door and fixed panel require different fabrication.

Specifications:

Glass Sizes: 3/8" (10mm) to 1/2" (12mm) thick tempered safety glass
Construction: Solid brass
Closing Type: Self-centering when within 15° of closed position
Cutout Required: For Door **Holes Required:** For Panel
Includes: Gaskets, screws and template

Use of Gaskets:

For 3/8"(10mm) Glass: Use one thick gasket on each side
For 1/2"(12mm) Glass: Use one thin gasket on each side

Recommendations:

For public safety, we recommend the use of only tempered safety glass.
Do not use power tools when installing these hinges.

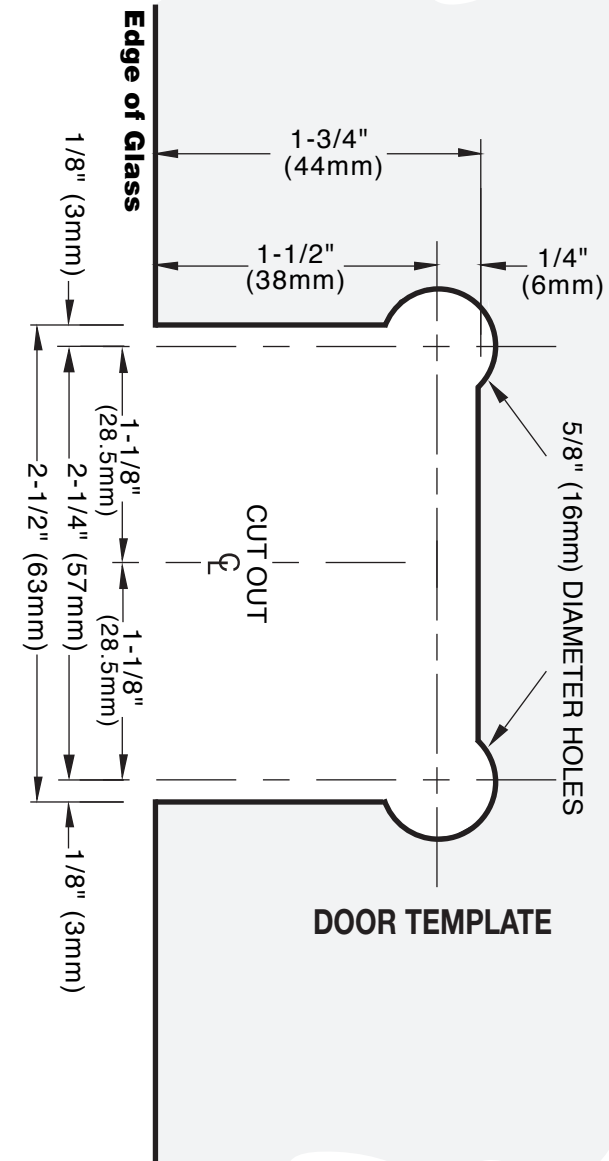
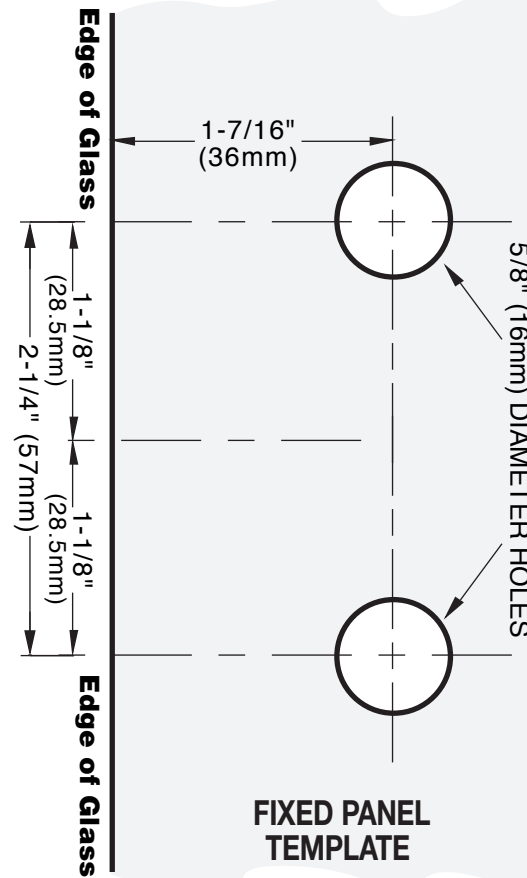
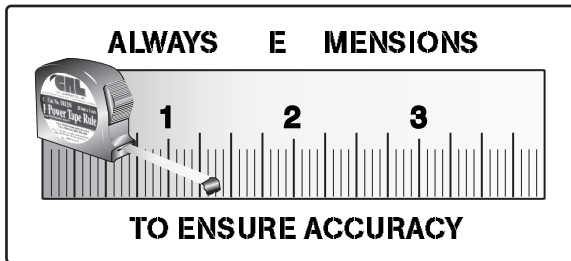
Maintenance Guidelines:

- Our hinges are greased at the factory for quiet and trouble-free operation. If there is any squeaking that occurs after installation, put a drop of "3 in 1 Oil" (also known as "household oil") on the white nylon washer that the hinge body pivots on. This washer is the component that acts as a buffer, so the body of the hinge doesn't pivot directly on the brass center block. This solution doesn't require the disassembly of the hinge.
Note: Do not use spray lubricant on these hinges. If the hinge has been disassembled, upon re-assembly, use white lithium grease to lubricate the interior mechanism.
- Never use an abrasive cleaner on the hardware. Many of the components are coated with a clear lacquer that will be irreparably damaged if subjected to harsh, abrasive chemicals. Advise your customer that drying the hardware with a clean, soft towel on a daily basis is the best way to maintain the hardware. If mineral deposits build-up, mix a couple of drops of a mild liquid soap (such as Ivory or a similar product) into a cup of warm water. Using a soft, non-abrasive cloth, clean the hardware. Rinse thoroughly with clean, warm water and dry.



C.R. LAURENCE CO., INC.
 PROFESSIONAL QUALITY

IMPORTANT:
 Project measurements from
 the edge of the glass.



ROMAN

90° Glass-to-Glass Hinge

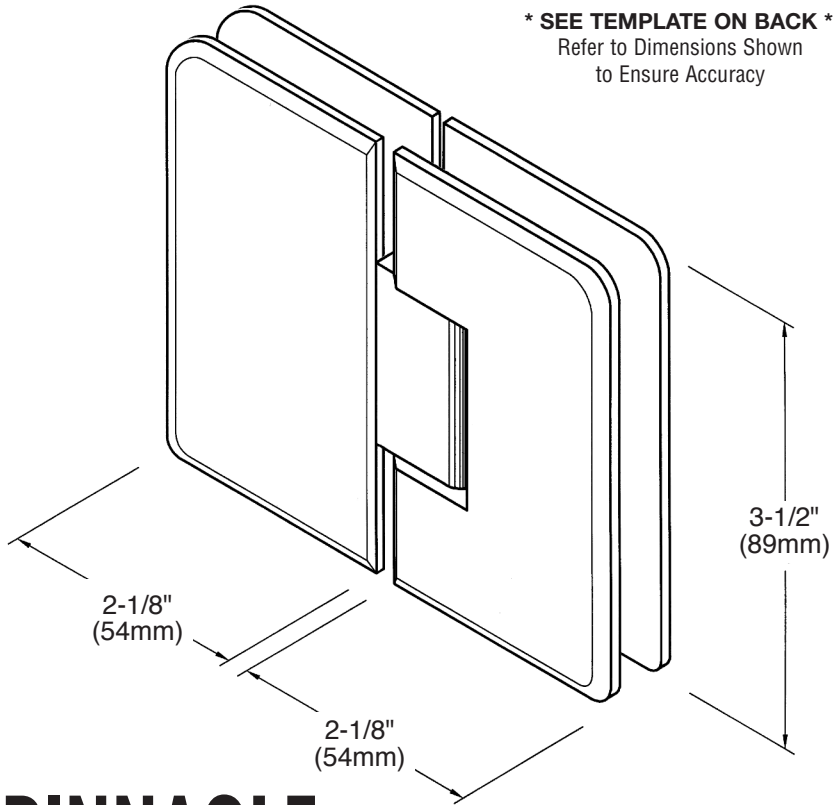
CAT. No. ROM092

C.R. Laurence Co., Inc.
 crlaurence.com

For technical assistance in the United States call toll free (800) 421-6144; from Canada call toll free (877) 421-6144; Outside the U.S. and Canada call (323) 588-1281. Ask for Tech Sales at Extension 7740. Toll free fax (800) 458-7496.



C.R. LAURENCE CO., INC.
PROFESSIONAL QUALITY



*** SEE TEMPLATE ON BACK ***
 Refer to Dimensions Shown
 to Ensure Accuracy

PINNACLE

180° Glass-to-Glass Hinge

CAT No. PIN180

* Maximum Door Capacities	3/8" (10mm) Glass		1/2" (12mm) Glass	
	Weight	Width	Weight	Width
Using 2 Hinges	80 lbs.(36 kg)	28"(711mm)	80 lbs.(36 kg)	28"(711mm)
Using 3 Hinges	120 lbs.(55 kg)	32"(813mm)	120 lbs.(55 kg)	32"(813mm)

***NOTE:** Do not exceed either maximum weight or width when choosing proper quantity of hinges.

Important Information:

This hinge contains a dual degree pivot pin. The pivot pin is set for normal door closing position. You have the option of altering the closing position of the door 5 degrees inward by utilizing the opposite side of the pivot pin, which has been pre-machined (see Section 3 of Cat. No. SDT20 Frameless Shower Door Guide for this procedure). Special order custom pivot pins are available (Cat.No. GENP1N) that can be machined at any angle up to 45 degrees.

Specifications:

Glass Sizes: 3/8" (10mm) to 1/2" (12mm) thick tempered safety glass
Construction: Solid brass
Closing Type: Self-centering when within 15° of closed position
Cutout Required
Includes: Gaskets, screws and template

Use of Gaskets:

For 3/8"(10mm) Glass: Use one thick gasket on each side
For 1/2"(12mm) Glass: Use one thin gasket on each side

Recommendations:

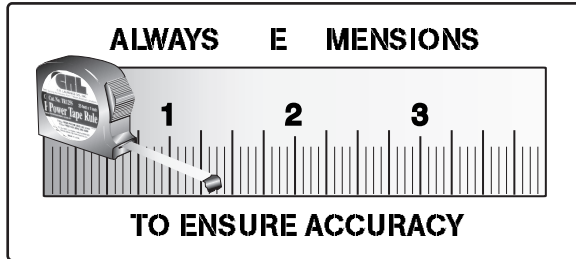
For public safety, we recommend the use of only tempered safety glass. Do not use power tools when installing these hinges.

Maintenance Guidelines:

- Our hinges are greased at the factory for quiet and trouble-free operation. If there is any squeaking that occurs after installation, put a drop of "3 in 1 Oil" (also known as "household oil") on the white nylon washer that the hinge body pivots on. This washer is the component that acts as a buffer, so the body of the hinge doesn't pivot directly on the brass center block. This solution doesn't require the disassembly of the hinge.
Note: Do not use spray lubricant on these hinges. If the hinge has been disassembled, upon re-assembly, use white lithium grease to lubricate the interior mechanism.
- Never use an abrasive cleaner on the hardware. Many of the components are coated with a clear lacquer that will be irreparably damaged if subjected to harsh, abrasive chemicals. Advise your customer that drying the hardware with a clean, soft towel on a daily basis is the best way to maintain the hardware. If mineral deposits build-up, mix a couple of drops of a mild liquid soap (such as Ivory or a similar product) into a cup of warm water. Using a soft, non-abrasive cloth, clean the hardware. Rinse thoroughly with clean, warm water and dry.

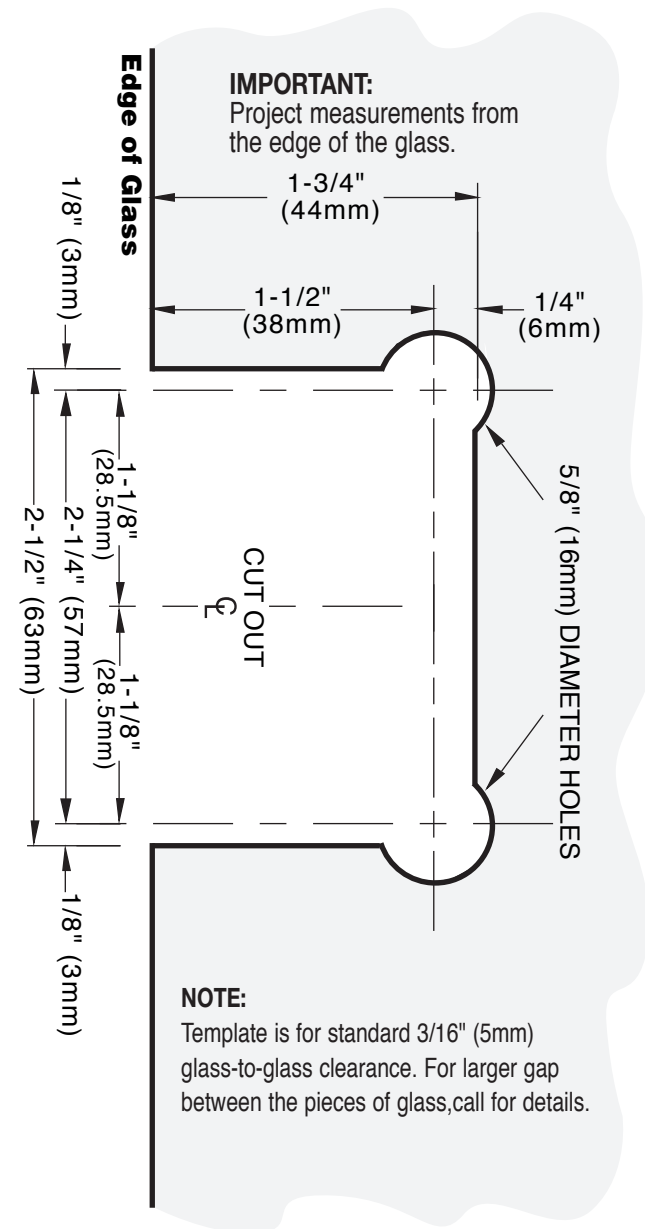


C.R. LAURENCE CO., INC.
PROFESSIONAL QUALITY



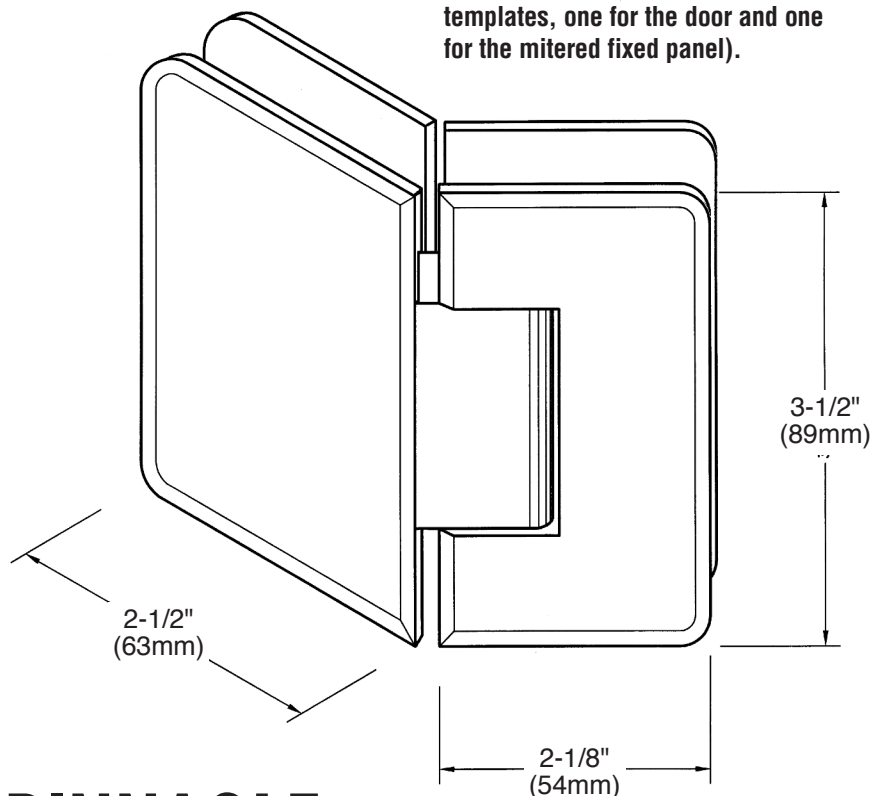
PINNACLE

180° Glass-to-Glass Hinge
CAT No. PIN180





(This hinge requires two different templates, one for the door and one for the mitered fixed panel).



*** SEE TEMPLATE ON BACK ***
Refer to Dimensions Shown
to Ensure Accuracy

PINNACLE

135° Glass-to-Glass Hinge

CAT No. PIN045

*Maximum Door Capacities	3/8" (10mm) Glass		1/2" (12mm) Glass	
	Weight	Width	Weight	Width
Using 2 Hinges	80 lbs.(36 kg)	28"(711mm)	80 lbs.(36 kg)	28"(711mm)
Using 3 Hinges	120 lbs.(55 kg)	32"(813mm)	120 lbs.(55 kg)	32"(813mm)

***NOTE:** Do not exceed either maximum weight or width when choosing proper quantity of hinges.

C.R. Laurence Co., Inc. For technical assistance in the United States call toll free (800) 421-6144; from Canada call toll free (877) 421-6144;
crlaurence.com Outside the U.S. and Canada call (323) 588-1281. Ask for Tech Sales at Extension 7740. Toll free fax (800) 458-7496.

Important Information:

- 1) This hinge contains a dual degree pivot pin. The pivot pin is set for normal door closing position. You have the option of altering the closing position of the door 5 degrees inward by utilizing the opposite side of the pivot pin, which has been pre-machined (see Section 3 of Cat. No. SDT20 Frameless Shower Door Guide for this procedure). Special order custom pivot pins are available (Cat.No. GENP1N) that can be machined at any angle up to 45 degrees.
- 2) The fixed panel measurements must be taken from the outside of the miter.

Specifications:

Glass Sizes: 3/8" (10mm) to 1/2" (12mm) thick tempered safety glass
Construction: Solid brass
Closing Type: Self-centering when within 15° of closed position
Cutout Required
Includes: Gaskets, screws and template

Use of Gaskets:

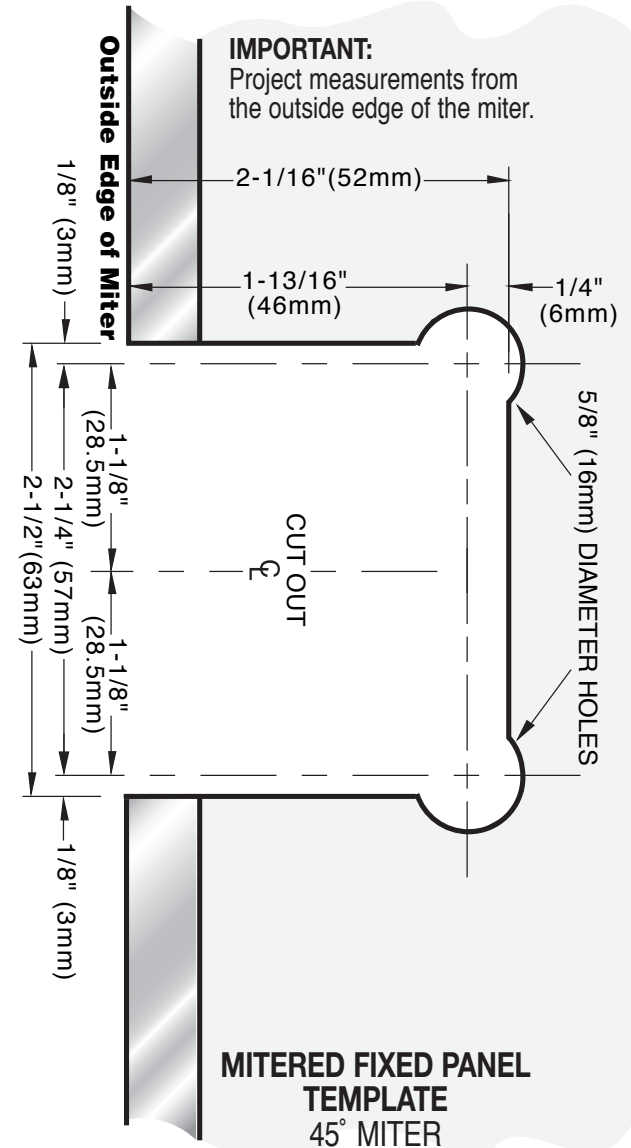
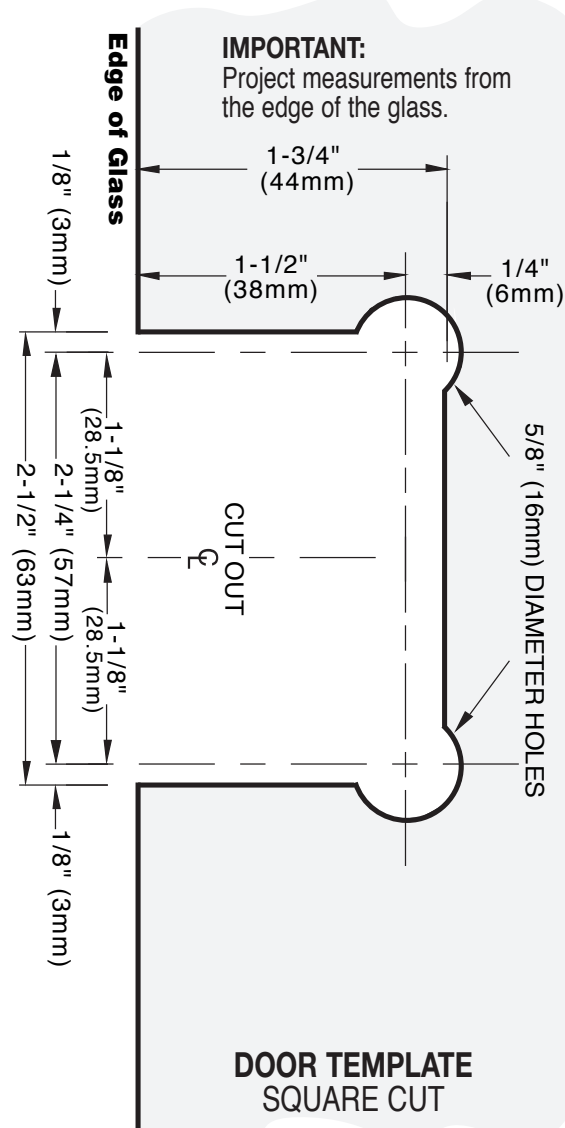
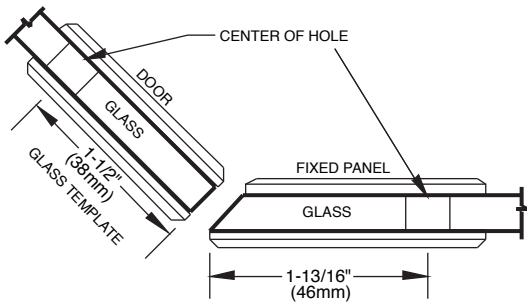
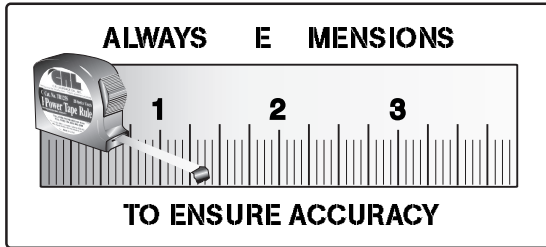
For 3/8"(10mm) Glass: Use one thick gasket on each side
For 1/2"(12mm) Glass: Use one thin gasket on each side

Recommendations:

For public safety, we recommend the use of only tempered safety glass.
Do not use power tools when installing these hinges.

Maintenance Guidelines:

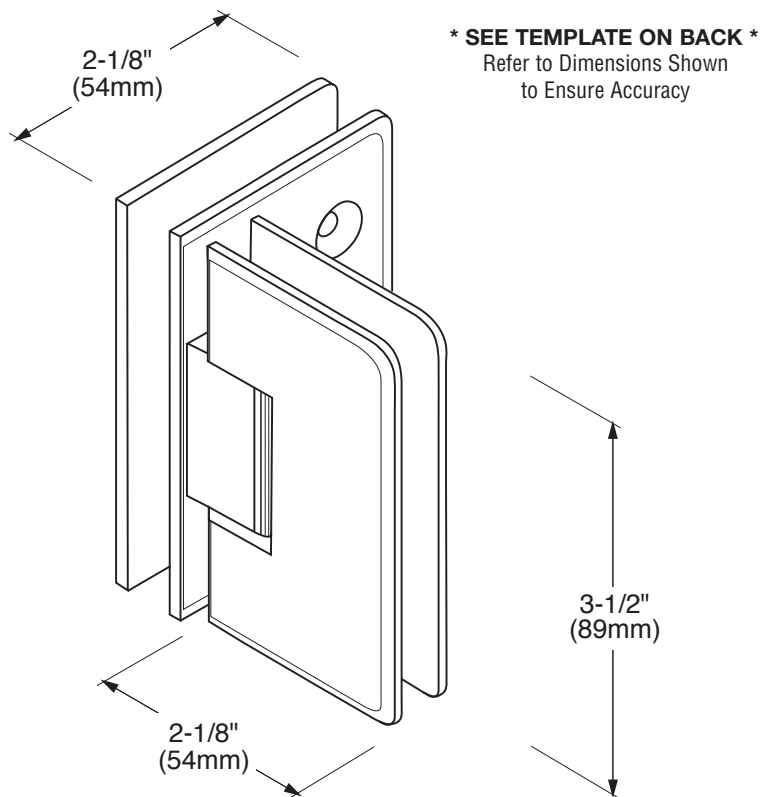
- Our hinges are greased at the factory for quiet and trouble-free operation. If there is any squeaking that occurs after installation, put a drop of "3 in 1 Oil" (also known as "household oil") on the white nylon washer that the hinge body pivots on. This washer is the component that acts as a buffer, so the body of the hinge doesn't pivot directly on the brass center block. This solution doesn't require the disassembly of the hinge.
Note: Do not use spray lubricant on these hinges. If the hinge has been disassembled, upon re-assembly, use white lithium grease to lubricate the interior mechanism.
- Never use an abrasive cleaner on the hardware. Many of the components are coated with a clear lacquer that will be irreparably damaged if subjected to harsh, abrasive chemicals. Advise your customer that drying the hardware with a clean, soft towel on a daily basis is the best way to maintain the hardware. If mineral deposits build-up, mix a couple of drops of a mild liquid soap (such as Ivory or a similar product) into a cup of warm water. Using a soft, non-abrasive cloth, clean the hardware. Rinse thoroughly with clean, warm water and dry.



PINNACLE
 135° Glass-to-Glass Hinge
CAT No. PIN045



C.R. LAURENCE CO., INC.
PROFESSIONAL QUALITY



Important Information:

- (1) This hinge contains a dual degree pivot pin. The pivot pin is set for normal door closing position. You have the option of altering the closing position of the door 5 degrees inward by utilizing the opposite side of the pivot pin, which has been pre-machined (see Section 3 of Cat. No. SDT20 Frameless Shower Door Guide for this procedure). Special order custom pivot pins are available (Cat.No. GENP1N) that can be machined at any angle up to 45 degrees.
- (2) The door requires a cutout. The fixed panel requires holes only.

Specifications:

Glass Sizes: 3/8" (10mm) to 1/2" (12mm) thick tempered safety glass
Construction: Solid brass
Closing Type: Self-centering when within 15° of closed position
Cutout Required: for door **Holes Required:** for panel
Includes: Gaskets, screws and template

Use of Gaskets:

For 3/8"(10mm) Glass: Use one thick gasket on each side
For 1/2"(12mm) Glass: Use one thin gasket on each side

Recommendations:

For public safety, we recommend the use of only tempered safety glass.
 Do not use power tools when installing these hinges.

Maintenance Guidelines:

- Our hinges are greased at the factory for quiet and trouble-free operation. If there is any squeaking that occurs after installation, put a drop of "3 in 1 Oil" (also known as "household oil") on the white nylon washer that the hinge body pivots on. This washer is the component that acts as a buffer, so the body of the hinge doesn't pivot directly on the brass center block. This solution doesn't require the disassembly of the hinge. **Note: Do not use spray lubricant on these hinges.** If the hinge has been disassembled, upon re-assembly, use white lithium grease to lubricate the interior mechanism.
- Never use an abrasive cleaner on the hardware. Many of the components are coated with a clear lacquer that will be irreparably damaged if subjected to harsh, abrasive chemicals. Advise your customer that drying the hardware with a clean, soft towel on a daily basis is the best way to maintain the hardware. If mineral deposits build-up, mix a couple of drops of a mild liquid soap (such as Ivory or a similar product) into a cup of warm water. Using a soft, non-abrasive cloth, clean the hardware. Rinse thoroughly with clean, warm water and dry.

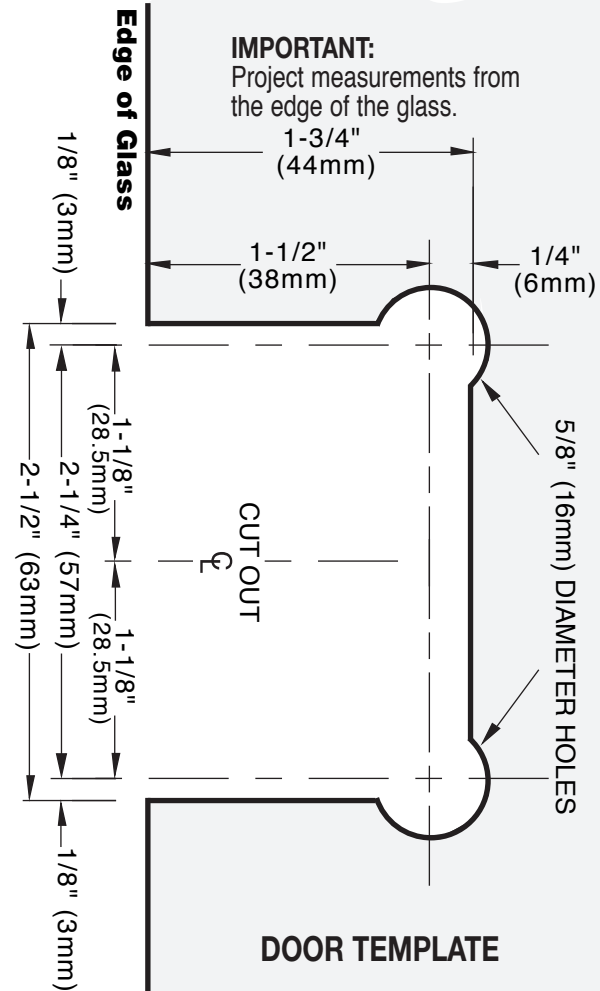
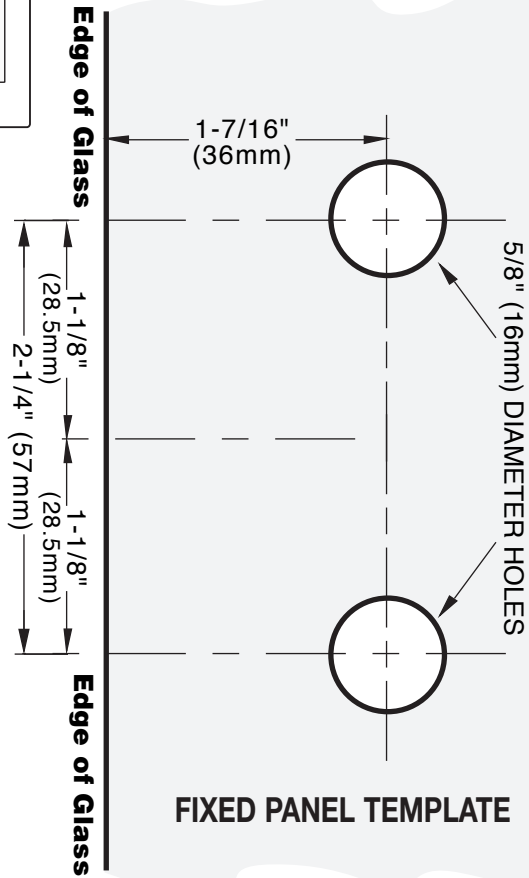
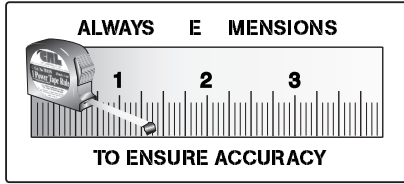
PINNACLE

90° Glass-to-Glass Hinge

CAT No. PIN092

*Maximum Door Capacities	3/8" (10mm) Glass		1/2" (12mm) Glass	
	Weight	Width	Weight	Width
Using 2 Hinges	80 lbs.(36 kg)	28"(711mm)	80 lbs.(36 kg)	28"(711mm)
Using 3 Hinges	120 lbs.(55 kg)	32"(813mm)	120 lbs.(55 kg)	32"(813mm)

*NOTE: Do not exceed either maximum weight or width when choosing proper quantity of hinges.



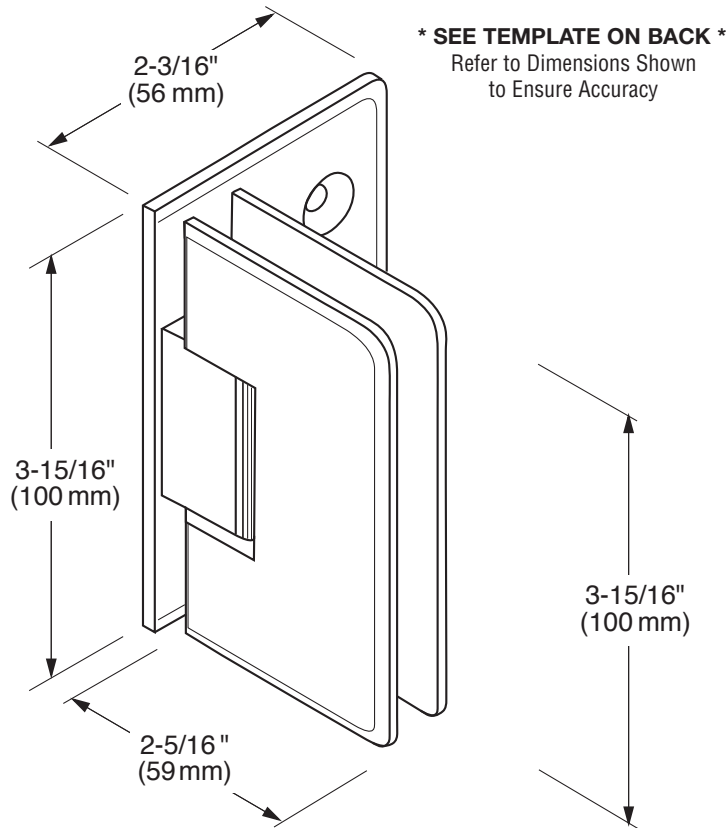
IMPORTANT:
Project measurements from the edge of the glass.

PINNACLE

90° Glass-to-Glass Hinge
CAT No. PIN092



C.R. LAURENCE CO., INC.
PROFESSIONAL QUALITY



Important Information:

This hinge contains a dual degree pivot pin. The pivot pin is set for normal door closing position. You have the option of altering the closing position of the door 5 degrees inward by utilizing the opposite side of the pivot pin, which has been pre-machined (see Section 3 of Cat. No. SDT20 Frameless Shower Door Guide for this procedure). Special order custom pivot pins are available (Cat.No. GENP1N) that can be machined at any angle up to 45 degrees.

Specifications:

Glass Sizes: 3/8" (10mm) to 1/2" (12mm) thick tempered safety glass

Construction: Solid brass

Closing Type: Self-centering when within 15° of closed position

Cutout Required

Includes: Gaskets, screws and template

Use of Gaskets:

For 3/8"(10mm) Glass: Use one thick gasket on each side

For 1/2"(12mm) Glass: Use one thin gasket on each side

Recommendations:

For public safety, we recommend the use of only tempered safety glass. Do not use power tools when installing these hinges.

Maintenance Guidelines:

- Our hinges are greased at the factory for quiet and trouble-free operation. If there is any squeaking that occurs after installation, put a drop of "3 in 1 Oil" (also known as "household oil") on the white nylon washer that the hinge body pivots on. This washer is the component that acts as a buffer, so the body of the hinge doesn't pivot directly on the brass center block. This solution doesn't require the disassembly of the hinge.

Note: Do not use spray lubricant on these hinges. If the hinge has been disassembled, upon re-assembly, use white lithium grease to lubricate the interior mechanism.

- Never use an abrasive cleaner on the hardware. Many of the components are coated with a clear lacquer that will be irreparably damaged if subjected to harsh, abrasive chemicals. Advise your customer that drying the hardware with a clean, soft towel on a daily basis is the best way to maintain the hardware. If mineral deposits build-up, mix a couple of drops of a mild liquid soap (such as Ivory or a similar product) into a cup of warm water. Using a soft, non-abrasive cloth, clean the hardware. Rinse thoroughly with clean, warm water and dry.

COLOGNE

Wall Mount Hinge- Offset Back Plate

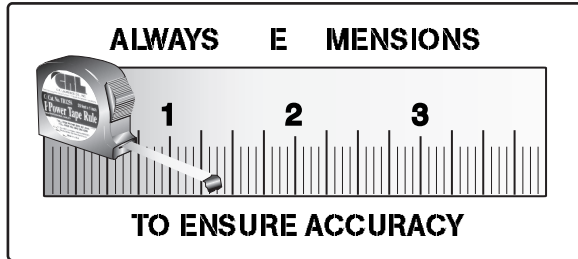
CAT No. COL044

* Maximum Door Capacities	3/8" (10mm) Glass		1/2" (12mm) Glass	
	Weight	Width	Weight	Width
Using 2 Hinges	100 lbs.(45 kg)	34" (864 mm)	100 lbs.(45 kg)	32"(813mm)
Using 3 Hinges	130 lbs.(59 kg)	34" (864 mm)	130 lbs.(54 kg)	32"(813mm)

***NOTE:** Do not exceed either maximum weight or width when choosing proper quantity of hinges.



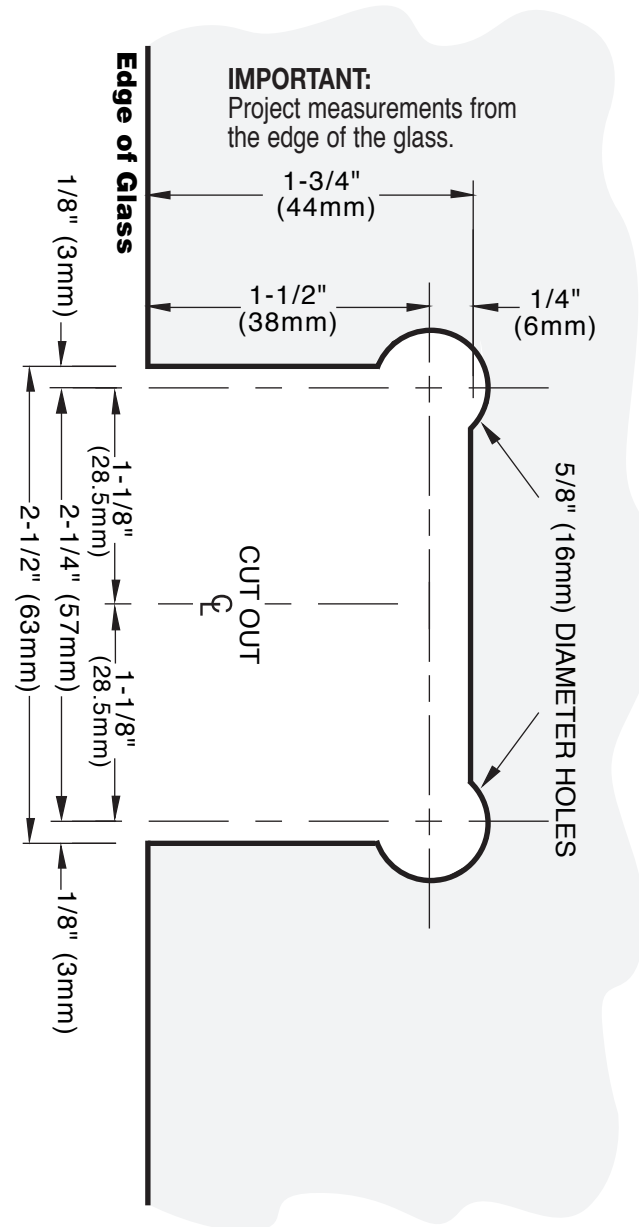
C.R. LAURENCE CO., INC.
PROFESSIONAL QUALITY



PINNACLE

Wall Mount Hinge- Offset Back Plate

CAT No. PIN044

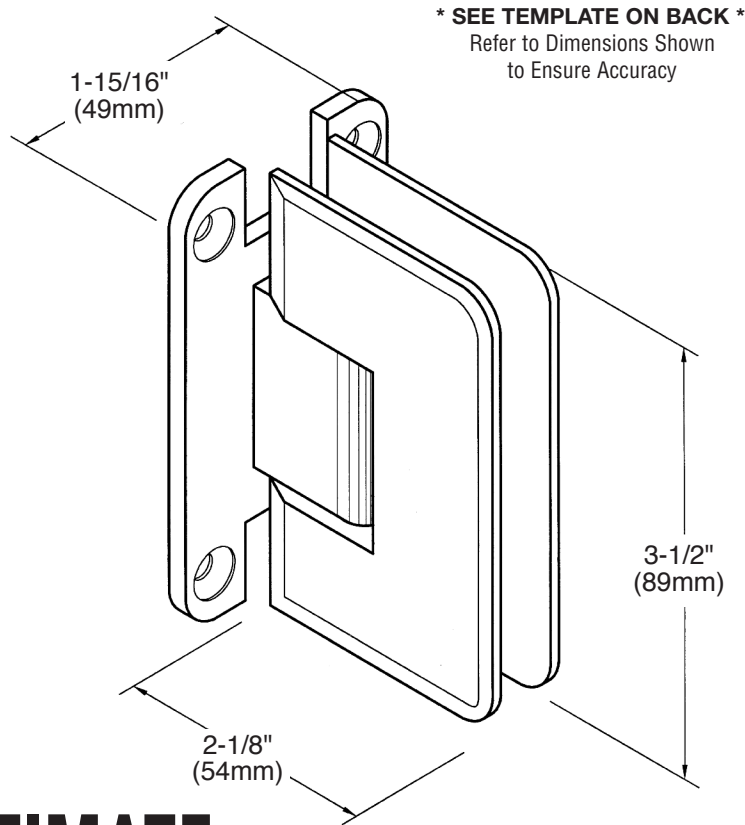


C.R. Laurence Co., Inc.
 crlaurence.com

For technical assistance in the United States call toll free (800) 421-6144; from Canada call toll free (877) 421-6144; Outside the U.S. and Canada call (323) 588-1281. Ask for Tech Sales at Extension 7740. Toll free fax (800) 458-7496.



C.R. LAURENCE CO., INC.
PROFESSIONAL QUALITY



ULTIMATE

Wall Mount Hinge

Cat No. ULT037

*Maximum Door Capacities	3/8" (10mm) Glass		1/2" (12mm) Glass	
	Weight	Width	Weight	Width
Using 2 Hinges	95 lbs.(43 kg)	30"(762mm)	95 lbs.(43 kg)	30"(762mm)
Using 3 Hinges	130 lbs.(59 kg)	32"(813mm)	130 lbs.(59 kg)	32"(813mm)

*NOTE: Do not exceed either maximum weight or width when choosing proper quantity of hinges.

Important Information:

This hinge contains a dual degree pivot pin. The pivot pin is set for normal door closing position. You have the option of altering the closing position of the door 5 degrees inward by utilizing the opposite side of the pivot pin, which has been pre-machined (see Section 3 of Cat. No. SDT20 Frameless Shower Door Guide for this procedure). Special order custom pivot pins are available (Cat.No. GENP1N) that can be machined at any angle up to 45 degrees.

Specifications:

Glass Sizes: 3/8" (10mm) to 1/2" (12mm) thick tempered safety glass

Construction: Stainless Steel

Closing Type: Self-centering when within 15° of closed position

Cutout Required

Includes: Gaskets, screws and template

Use of Gaskets:

For 3/8"(10mm) Glass: Use one thick gasket on each side

For 1/2"(12mm) Glass: Use one thin gasket on each side

Recommendations:

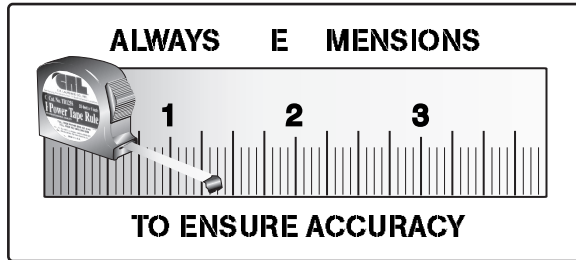
For public safety, we recommend the use of only tempered safety glass. Do not use power tools when installing these hinges.

Maintenance Guidelines:

- Our hinges are greased at the factory for quiet and trouble-free operation. If there is any squeaking that occurs after installation, put a drop of "3 in 1 Oil" (also known as "household oil") on the white nylon washer that the hinge body pivots on. This washer is the component that acts as a buffer, so the body of the hinge doesn't pivot directly on the brass center block. This solution doesn't require the disassembly of the hinge.
Note: Do not use spray lubricant on these hinges. If the hinge has been disassembled, upon re-assembly, use white lithium grease to lubricate the interior mechanism.
- Never use an abrasive cleaner on the hardware. Many of the components are coated with a clear lacquer that will be irreparably damaged if subjected to harsh, abrasive chemicals. Advise your customer that drying the hardware with a clean, soft towel on a daily basis is the best way to maintain the hardware. If mineral deposits build-up, mix a couple of drops of a mild liquid soap (such as Ivory or a similar product) into a cup of warm water. Using a soft, non-abrasive cloth, clean the hardware. Rinse thoroughly with clean, warm water and dry.



C.R. LAURENCE CO., INC.
PROFESSIONAL QUALITY

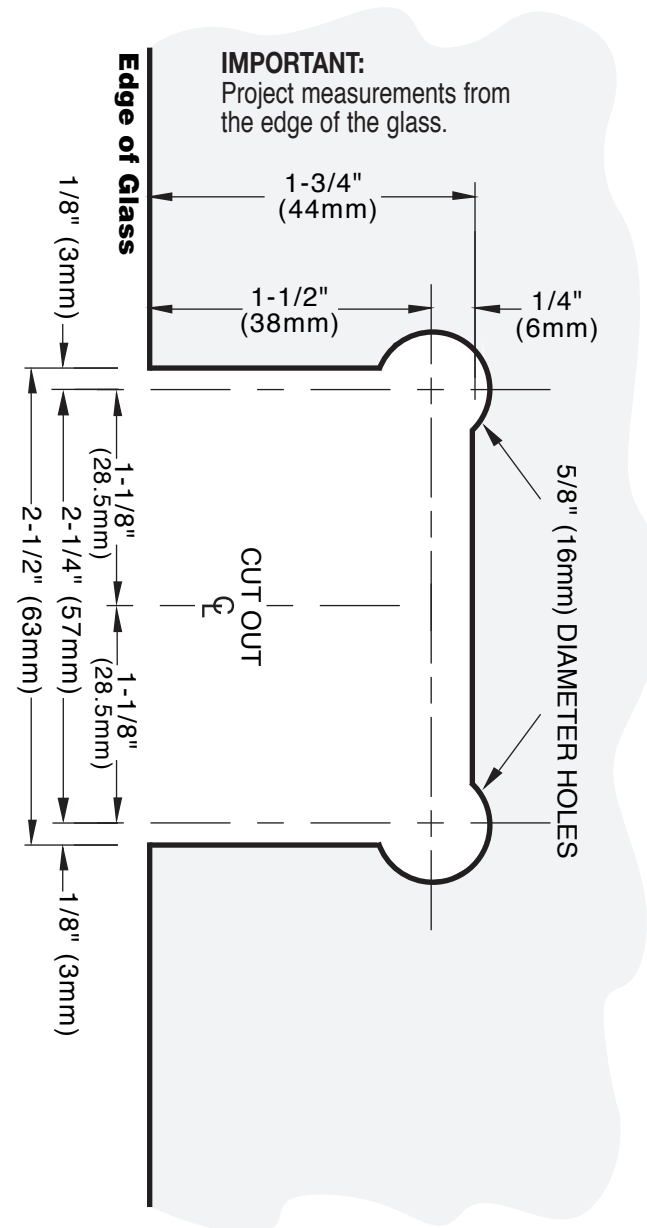


ULTIMATE

Wall Mount Hinge
CAT No. **ULT037**

C.R. Laurence Co., Inc.
crlaurence.com

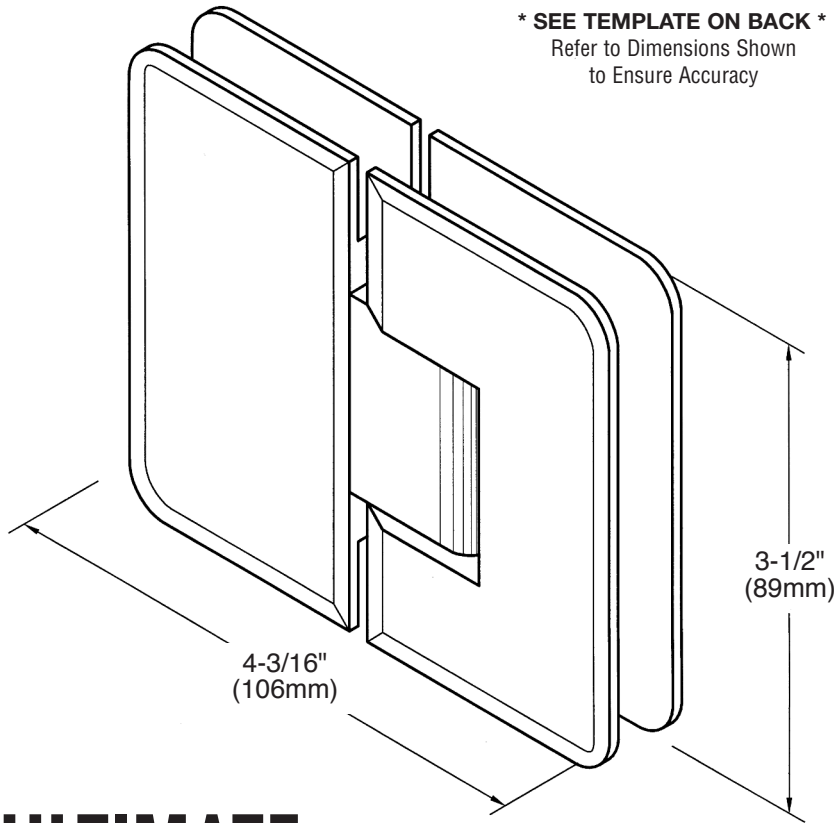
For technical assistance in the United States call toll free (800) 421-6144; from Canada call toll free (877) 421-6144; Outside the U.S. and Canada call (323) 588-1281. Ask for Tech Sales at Extension 7740. Toll free fax (800) 458-7496.





C.R. LAURENCE CO., INC.
PROFESSIONAL QUALITY

*** SEE TEMPLATE ON BACK ***
 Refer to Dimensions Shown
 to Ensure Accuracy



ULTIMATE

180° Glass-to-Glass Hinge

CAT No. ULT180

*Maximum Door Capacities	3/8" (10mm) Glass		1/2" (12mm) Glass	
	Weight	Width	Weight	Width
Using 2 Hinges	95 lbs.(43 kg)	30"(762mm)	95 lbs.(43 kg)	30"(762mm)
Using 3 Hinges	130 lbs.(59 kg)	32"(813mm)	130 lbs.(59 kg)	32"(813mm)

***NOTE:** Do not exceed either maximum weight or width when choosing proper quantity of hinges.

Important Information:

This hinge contains a dual degree pivot pin. The pivot pin is set for normal door closing position. You have the option of altering the closing position of the door 5 degrees inward by utilizing the opposite side of the pivot pin, which has been pre-machined (see Section 3 of Cat. No. SDT20 Frameless Shower Door Guide for this procedure). Special order custom pivot pins are available (Cat.No. GENP1N) that can be machined at any angle up to 45 degrees.

Specifications:

Glass Sizes: 3/8" (10mm) to 1/2" (12mm) thick tempered safety glass

Construction: Stainless Steel

Closing Type: Self-centering when within 15° of closed position

Cutout Required

Includes: Gaskets, screws and template

Use of Gaskets:

For 3/8"(10mm) Glass: Use one thick gasket on each side

For 1/2"(12mm) Glass: Use one thin gasket on each side

Recommendations:

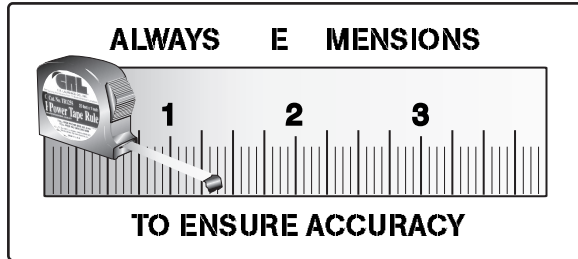
For public safety, we recommend the use of only tempered safety glass. Do not use power tools when installing these hinges.

Maintenance Guidelines:

- Our hinges are greased at the factory for quiet and trouble-free operation. If there is any squeaking that occurs after installation, put a drop of "3 in 1 Oil" (also known as "household oil") on the white nylon washer that the hinge body pivots on. This washer is the component that acts as a buffer, so the body of the hinge doesn't pivot directly on the brass center block. This solution doesn't require the disassembly of the hinge. **Note: Do not use spray lubricant on these hinges.** If the hinge has been disassembled, upon re-assembly, use white lithium grease to lubricate the interior mechanism.
- Never use an abrasive cleaner on the hardware. Many of the components are coated with a clear lacquer that will be irreparably damaged if subjected to harsh, abrasive chemicals. Advise your customer that drying the hardware with a clean, soft towel on a daily basis is the best way to maintain the hardware. If mineral deposits build-up, mix a couple of drops of a mild liquid soap (such as Ivory or a similar product) into a cup of warm water. Using a soft, non-abrasive cloth, clean the hardware. Rinse thoroughly with clean, warm water and dry.

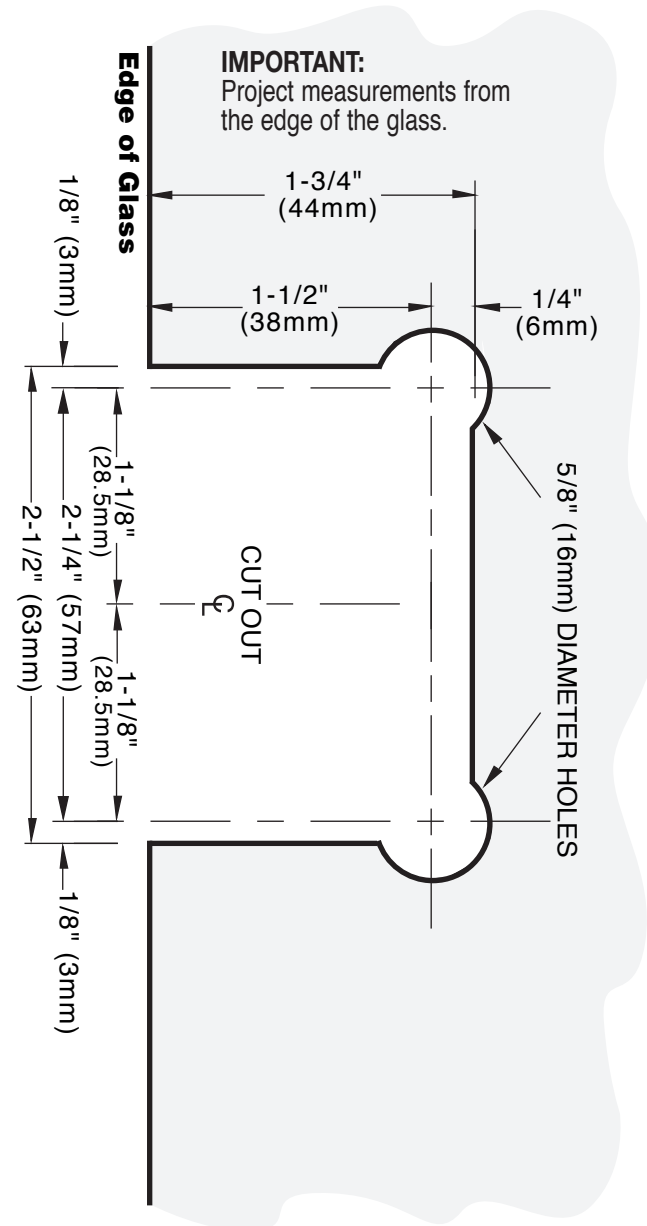


C.R. LAURENCE CO., INC.
PROFESSIONAL QUALITY



ULTIMATE

180° Glass-to-Glass Hinge
CAT No. ULT180

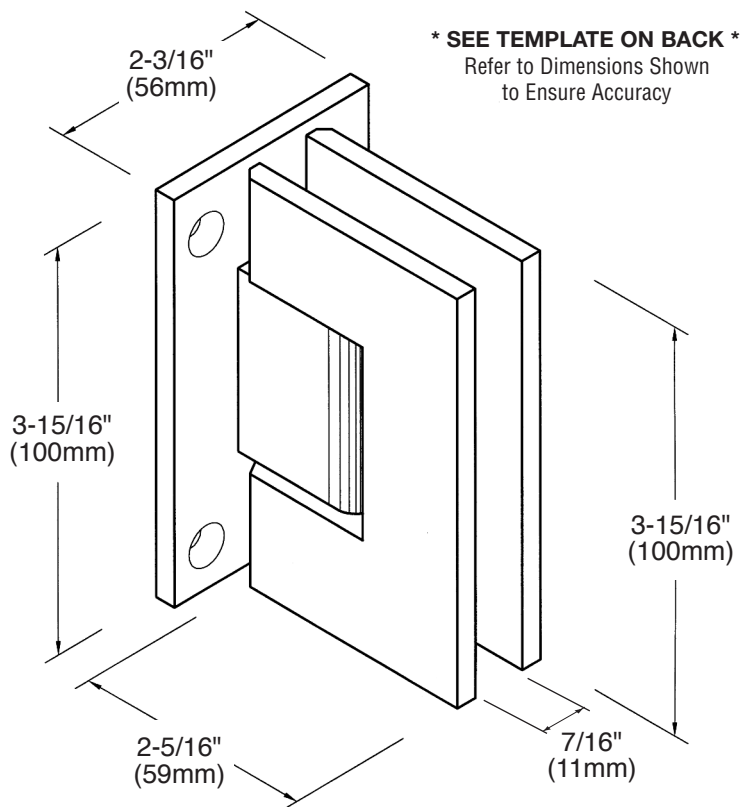


C.R. Laurence Co., Inc.
 crlaurence.com

For technical assistance in the United States call toll free (800) 421-6144; from Canada call toll free (877) 421-6144; Outside the U.S. and Canada call (323) 588-1281. Ask for Tech Sales at Extension 7740. Toll free fax (800) 458-7496.



C.R. LAURENCE CO., INC.
PROFESSIONAL QUALITY



Important Information:

- 1) This Hinge contains a dual degree pivot pin. The pivot pin is set for normal door closing position. You have the option of altering the closing position of the door 5 degrees inward by utilizing the opposite side of the pivot pin, which has been pre-machined. Special order custom pivot pins are available (Cat.No. V1EP1N) that can be machined at any angle up to 45 degrees.
- 2) The Vienna Hinge is designed to accommodate two types of cut-outs in the glass. If the two steel pins in the body of the Hinge are left in place, the "mouse ear" cut-out option should be used. This application is recommended to prevent slippage. If the two steel pins are removed, the rectangular cut-out option can be utilized.

Specifications:

Glass Sizes: 3/8" (10mm) to 1/2" (12mm) thick tempered safety glass
Construction: Solid brass
Closing Type: Self-centering when within 15° of closed position
Cut-out Required
Includes: Gaskets, screws and template

Use of Gaskets:

For 3/8" (10mm) Glass: Use one thick gasket on each side
For 1/2" (12mm) Glass: Use one thin gasket on each side

Recommendations:

For public safety, we recommend the use of only tempered safety glass. Do not use power tools when installing these hinges.

Maintenance Guidelines:

- Our hinges are greased at the factory for quiet and trouble-free operation. If there is any squeaking that occurs after installation, put a drop of "3 in 1 Oil" (also known as "household oil") on the white nylon washer that the hinge body pivots on. This washer is the component that acts as a buffer, so the body of the hinge doesn't pivot directly on the brass center block. This solution doesn't require the disassembly of the hinge.
Note: Do not use spray lubricant on these hinges. If the hinge has been disassembled, upon re-assembly, use white lithium grease to lubricate the interior mechanism.
- Never use an abrasive cleaner on the hardware. Many of the components are coated with a clear lacquer that will be irreparably damaged if subjected to harsh, abrasive chemicals. Advise your customer that drying the hardware with a clean, soft towel on a daily basis is the best way to maintain the hardware. If mineral deposits build-up, mix a couple of drops of a mild liquid soap (such as Ivory or a similar product) into a cup of warm water. Using a soft, non-abrasive cloth, clean the hardware. Rinse thoroughly with clean, warm water and dry.

VIENNA

Wall Mount Hinge

CAT. No. V1E037

*Maximum Door Capacities	3/8" (10mm) Glass		1/2" (12mm) Glass	
	Weight	Width	Weight	Width
Using 2 Hinges	110 lbs.(50 kg)	36"(914mm)	110 lbs.(50 kg)	36"(914mm)
Using 3 Hinges	140 lbs.(64 kg)	36"(914mm)	140 lbs.(64 kg)	36"(914mm)

*NOTE: Do not exceed either maximum weight or width when choosing proper quantity of hinges.

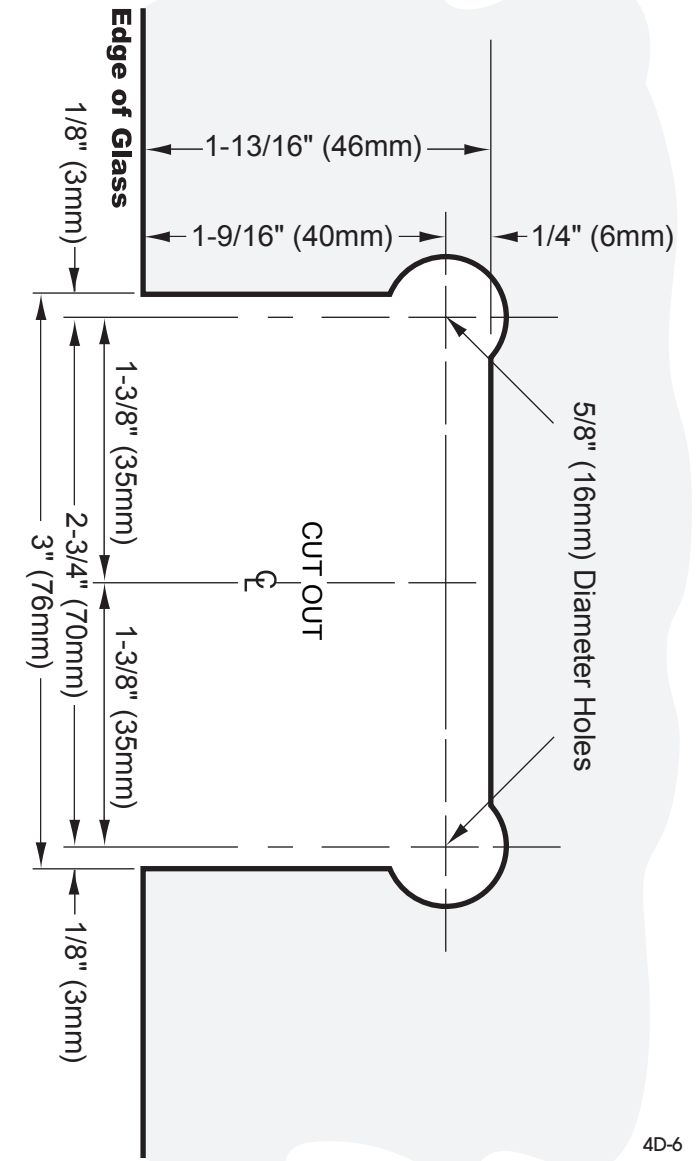
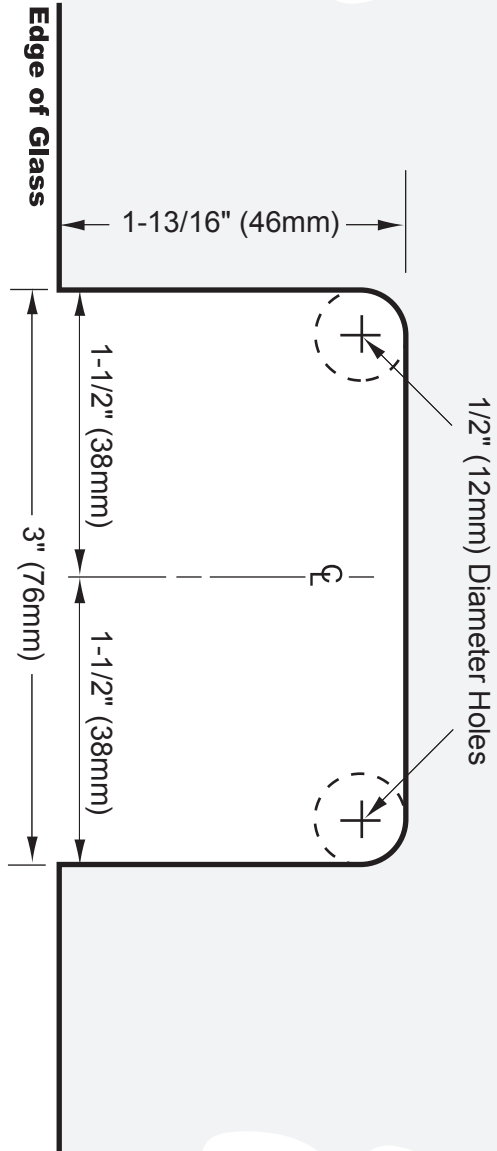
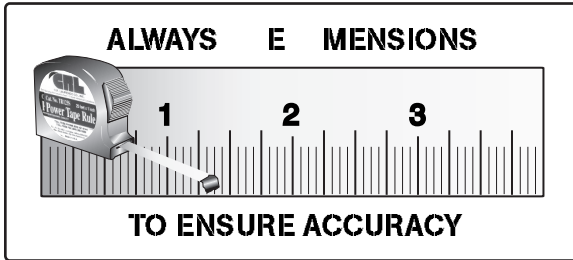


C.R. LAURENCE CO., INC.
PROFESSIONAL QUALITY

**Rectangular
Cut-out Option**

IMPORTANT:
Project measurements from
the edge of the glass.

**"Mouse-Ear"
Cut-out Option**



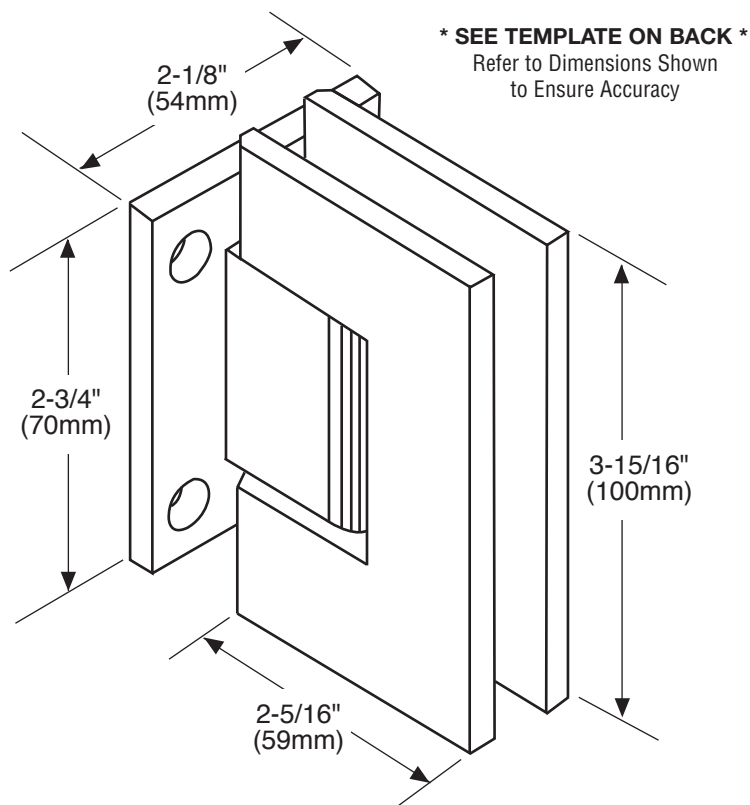
VIENNA
Wall Mount Hinge
CAT. No. V1E037

C.R. Laurence Co., Inc.
crlaurence.com

For technical assistance in the United States call toll free (800) 421-6144; from Canada call toll free (877) 421-6144; Outside the U.S. and Canada call (323) 588-1281. Ask for Tech Sales at Extension 7740. Toll free fax (800) 458-7496.



C.R. LAURENCE CO., INC.
PROFESSIONAL QUALITY



VIENNA

Wall Mount Hinge-Short Back Plate

CAT. No. V1E074

*Maximum Door Capacities	3/8" (10mm) Glass		1/2" (12mm) Glass	
	Weight	Width	Weight	Width
Using 2 Hinges	100 lbs.(45 kg)	34"(864mm)	100 lbs.(45 kg)	32"(813mm)
Using 3 Hinges	130 lbs.(59 kg)	34"(864mm)	130 lbs.(59 kg)	32"(813mm)

*NOTE: Do not exceed either maximum weight or width when choosing proper quantity of hinges.

Important Information:

- 1) The Cat. No. V1E074 Short Back Plate Vienna Wall Mount Hinge offers two different templates. The regular Clearance Template allows 1/4" (6mm) to 5/16" (8mm) clearance. The Tight Clearance Template allows for a tighter clearance of 1/8" (3mm) to 3/16" (5mm), and is commonly used on installations where vinyl seals are not being used.
- 2) This Hinge contains a dual degree pivot pin. The pivot pin is set for normal door closing position. You have the option of altering the closing position of the door 5 degrees inward by utilizing the opposite side of the pivot pin, which has been pre-machined. Special order custom pivot pins are available (Cat.No. V1EP1N) that can be machined at any angle up to 45 degrees.
- 3) The Vienna Hinge is designed to accommodate two types of cut-outs in the glass. If the two steel pins in the body of the Hinge are left in place, the "mouse ear" cut-out option should be used. This application is recommended to prevent slippage. If the two steel pins are removed, the rectangular cut-out option can be utilized.

Specifications:

- Glass Sizes:** 3/8" (10mm) to 1/2" (12mm) thick tempered safety glass
- Construction:** Solid brass
- Closing Type:** Self-centering when within 15° of closed position
- Cut-out Required**
- Includes:** Gaskets, screws and template

Use of Gaskets:

- For 3/8" (10mm) Glass:** Use one thick gasket on each side
- For 1/2" (12mm) Glass:** Use one thin gasket on each side

Recommendations:

For public safety, we recommend the use of only tempered safety glass. Do not use power tools when installing these hinges.

Maintenance Guidelines:

- Our hinges are greased at the factory for quiet and trouble-free operation. If there is any squeaking that occurs after installation, put a drop of "3 in 1 Oil" (also known as "household oil") on the white nylon washer that the hinge body pivots on. This washer is the component that acts as a buffer, so the body of the hinge doesn't pivot directly on the brass center block. This solution doesn't require the disassembly of the hinge.
Note: Do not use spray lubricant on these hinges. If the hinge has been disassembled, upon re-assembly, use white lithium grease to lubricate the interior mechanism.
- Never use an abrasive cleaner on the hardware. Many of the components are coated with a clear lacquer that will be irreparably damaged if subjected to harsh, abrasive chemicals. Advise your customer that drying the hardware with a clean, soft towel on a daily basis is the best way to maintain the hardware. If mineral deposits build-up, mix a couple of drops of a mild liquid soap (such as Ivory or a similar product) into a cup of warm water. Using a soft, non-abrasive cloth, clean the hardware. Rinse thoroughly with clean, warm water and dry.

4D-7

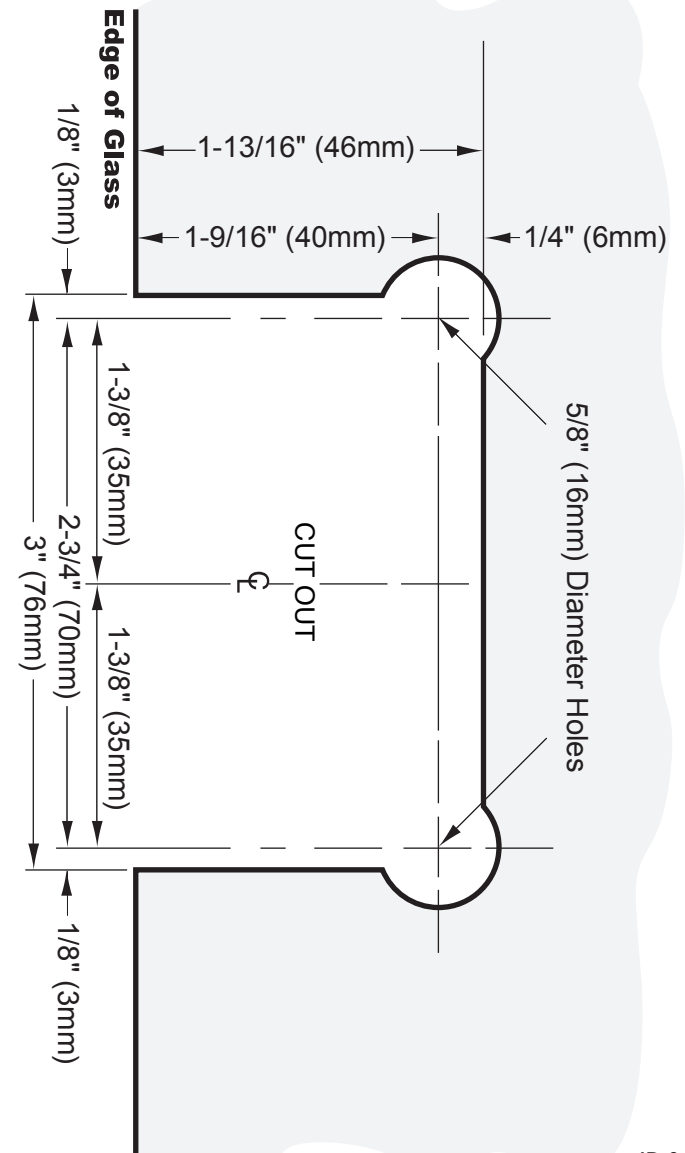
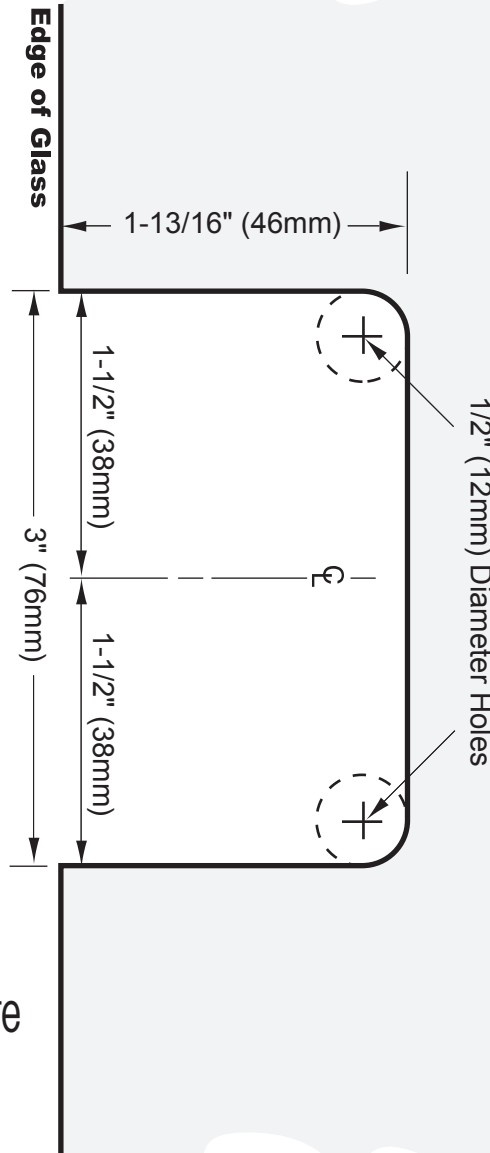
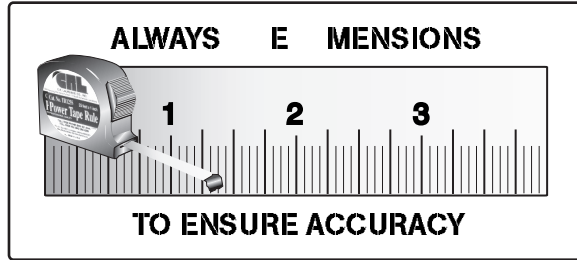


C.R. LAURENCE CO., INC.
PROFESSIONAL QUALITY

**Rectangular
Cut-out Option**

IMPORTANT:
Project measurements from
the edge of the glass.

**"Mouse-Ear"
Cut-out Option**



VIENNA

Wall Mount Hinge - Short Back Plate

CAT. No. V1E074

Regular Clearance Template

1/4" (6mm) to 5/16" (8mm)

C.R. Laurence Co., Inc.
crlaurence.com

For technical assistance in the United States call toll free (800) 421-6144; from Canada call toll free (877) 421-6144; Outside the U.S. and Canada call (323) 588-1281. Ask for Tech Sales at Extension 7740. Toll free fax (800) 458-7496.

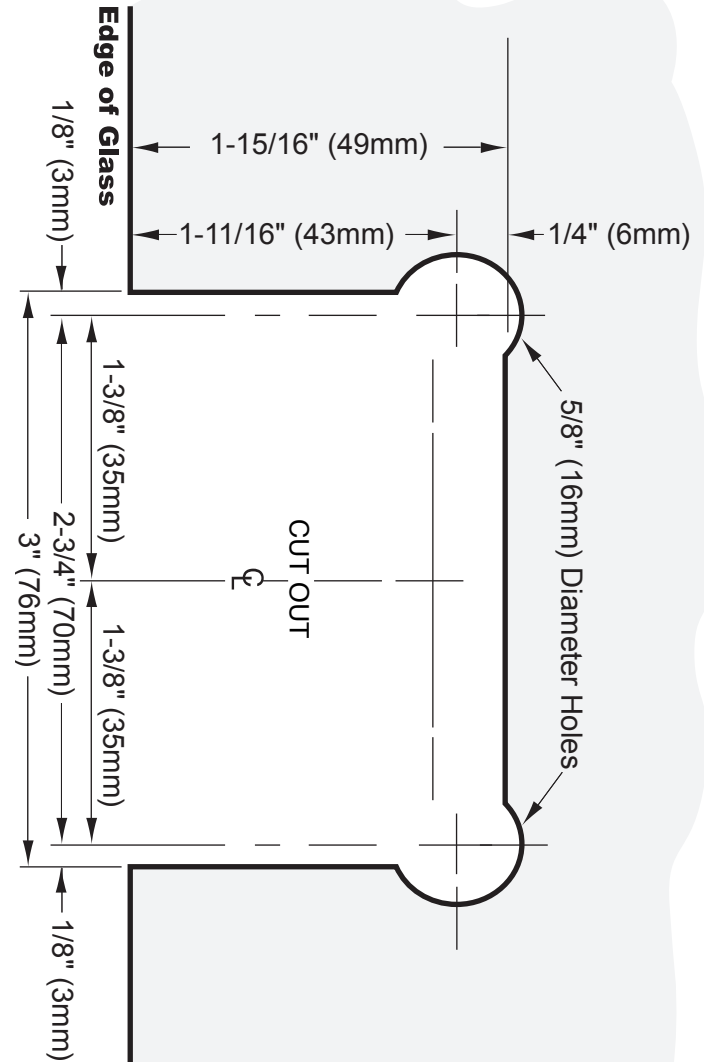
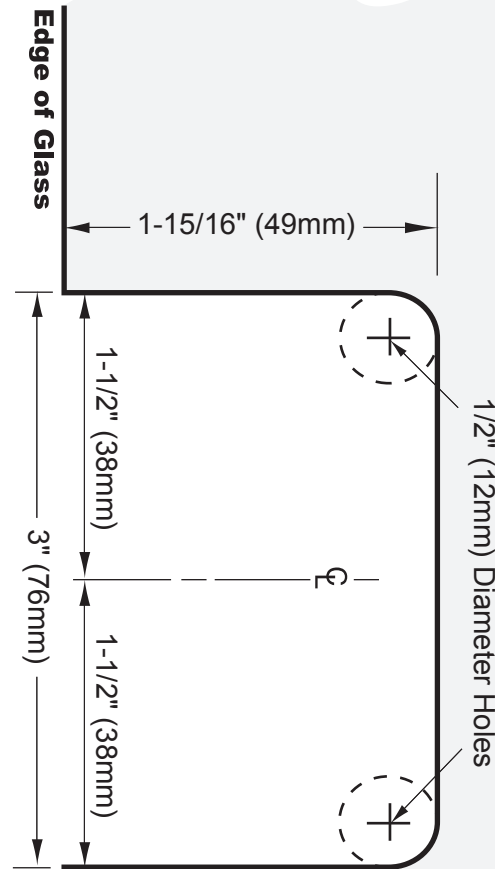
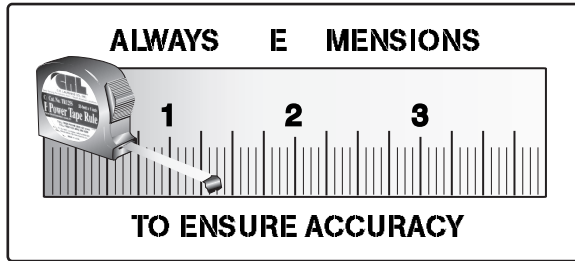


C.R. LAURENCE CO., INC.
PROFESSIONAL QUALITY

**Rectangular
Cut-out Option**

IMPORTANT:
Project measurements from
the edge of the glass.

**"Mouse-Ear"
Cut-out Option**



VIENNA

Wall Mount Hinge-Short Back Plate

CAT. No. V1E074

Tight Clearance Template

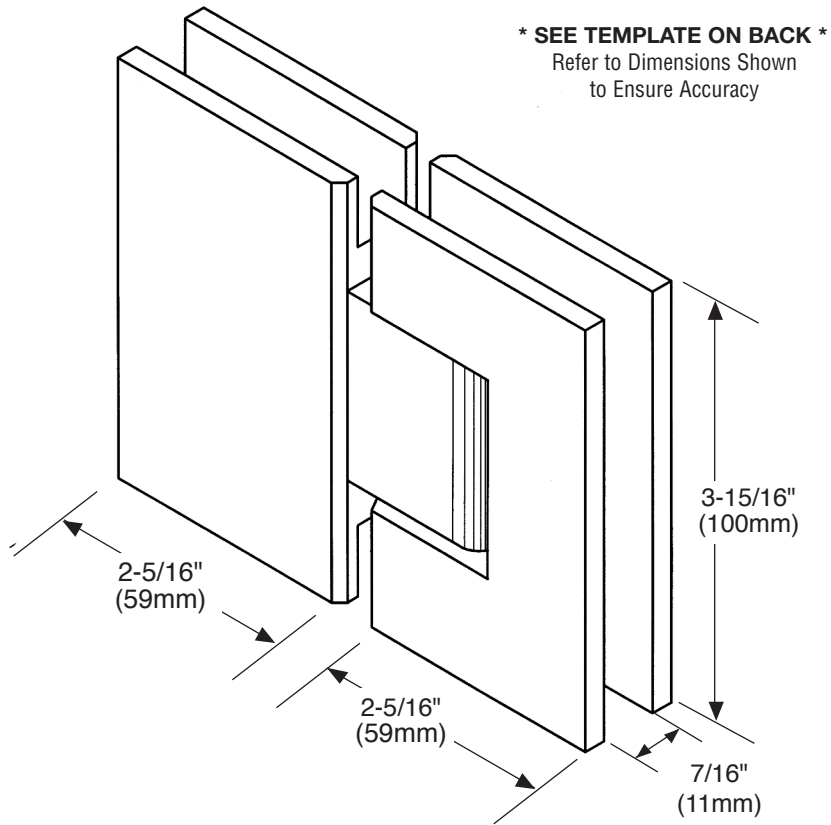
1/8"(3mm) to 3/16" (5mm)



C.R. Laurence Company has established a Technical Sales Department to assist our customers. If you have any questions concerning shower door hardware or any product from CRL, please contact us at:
(800) 421-6144 in the U.S.,
or (877) 421-6144 from Canada,
and ask for Extension 7740



C.R. LAURENCE CO., INC.
PROFESSIONAL QUALITY



VIENNA

180° Glass-to-Glass Hinge

CAT. No. V1E180

*Maximum Door Capacities	3/8" (10mm) Glass		1/2" (12mm) Glass	
	Weight	Width	Weight	Width
Using 2 Hinges	110 lbs.(50 kg)	36"(914mm)	110 lbs.(50 kg)	36"(914mm)
Using 3 Hinges	140 lbs.(64 kg)	36"(914mm)	140 lbs.(64 kg)	36"(914mm)

*NOTE: Do not exceed either maximum weight or width when choosing proper quantity of hinges.

Important Information:

- 1) This Hinge contains a dual degree pivot pin. The pivot pin is set for normal door closing position. You have the option of altering the closing position of the door 5 degrees inward by utilizing the opposite side of the pivot pin, which has been pre-machined. Special order custom pivot pins are available (Cat.No. V1EP1N) that can be machined at any angle up to 45 degrees.
- 2) The Vienna Hinge is designed to accommodate two types of cut-outs in the glass. If the two steel pins in the body of the Hinge are left in place, the "mouse ear" cut-out option should be used. This application is recommended to prevent slippage. If the two steel pins are removed, the rectangular cut-out option can be utilized.
- 3) Door and fixed panel use same cutout.

Specifications:

Glass Sizes: 3/8" (10mm) to 1/2" (12mm) thick tempered safety glass
Construction: Solid brass
Closing Type: Self-centering when within 15° of closed position
Cut-out Required
Includes: Gaskets, screws and template

Use of Gaskets:

For 3/8" (10mm) Glass: Use one thick gasket on each side
For 1/2" (12mm) Glass: Use one thin gasket on each side

Recommendations:

For public safety, we recommend the use of only tempered safety glass.
 Do not use power tools when installing these hinges.

Maintenance Guidelines:

- Our hinges are greased at the factory for quiet and trouble-free operation. If there is any squeaking that occurs after installation, put a drop of "3 in 1 Oil" (also known as "household oil") on the white nylon washer that the hinge body pivots on. This washer is the component that acts as a buffer, so the body of the hinge doesn't pivot directly on the brass center block. This solution doesn't require the disassembly of the hinge.
Note: Do not use spray lubricant on these hinges. If the hinge has been disassembled, upon re-assembly, use white lithium grease to lubricate the interior mechanism.
- Never use an abrasive cleaner on the hardware. Many of the components are coated with a clear lacquer that will be irreparably damaged if subjected to harsh, abrasive chemicals. Advise your customer that drying the hardware with a clean, soft towel on a daily basis is the best way to maintain the hardware. If mineral deposits build-up, mix a couple of drops of a mild liquid soap (such as Ivory or a similar product) into a cup of warm water. Using a soft, non-abrasive cloth, clean the hardware. Rinse thoroughly with clean, warm water and dry.

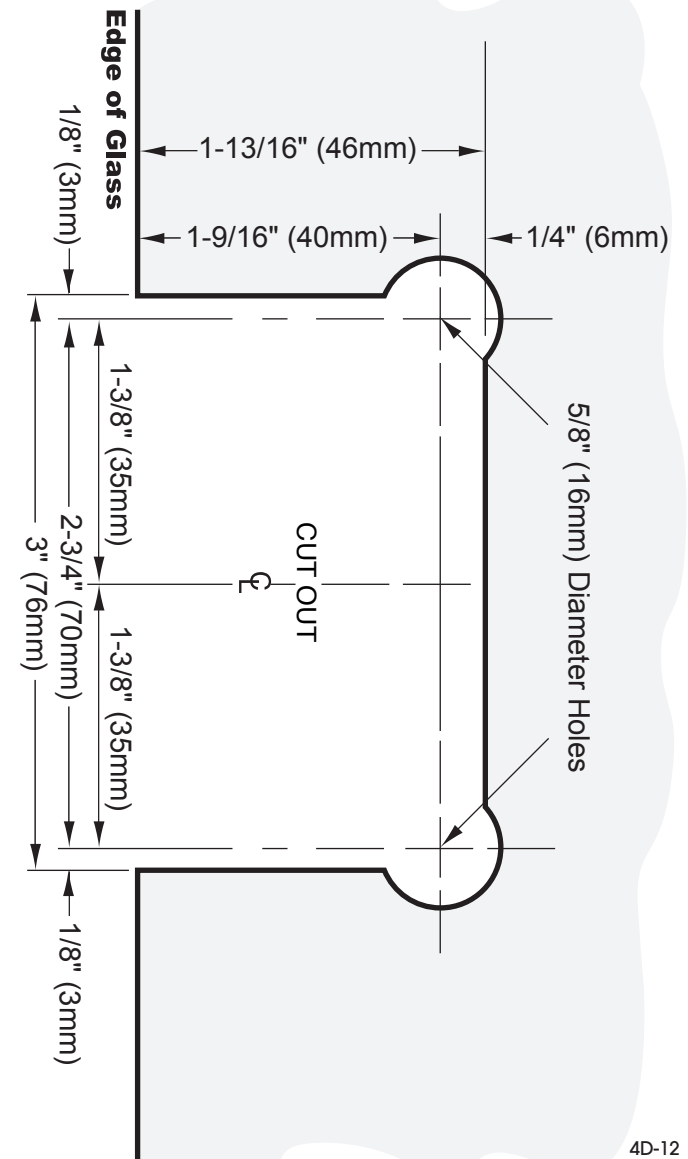
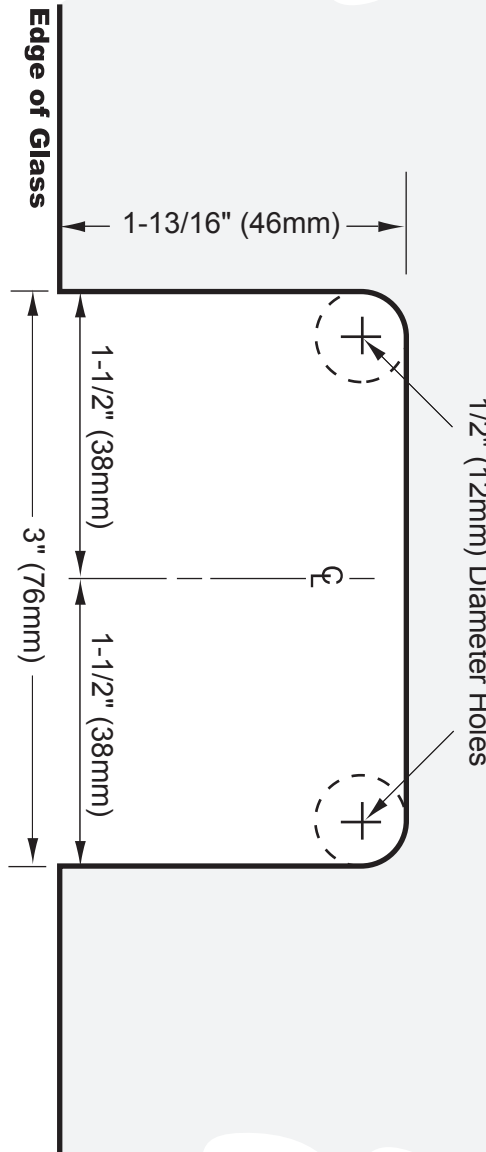
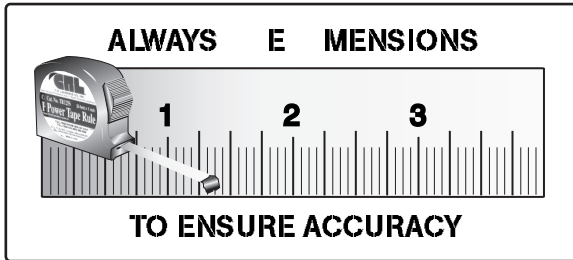


C.R. LAURENCE CO., INC.
PROFESSIONAL QUALITY

**Rectangular
Cut-out Option**

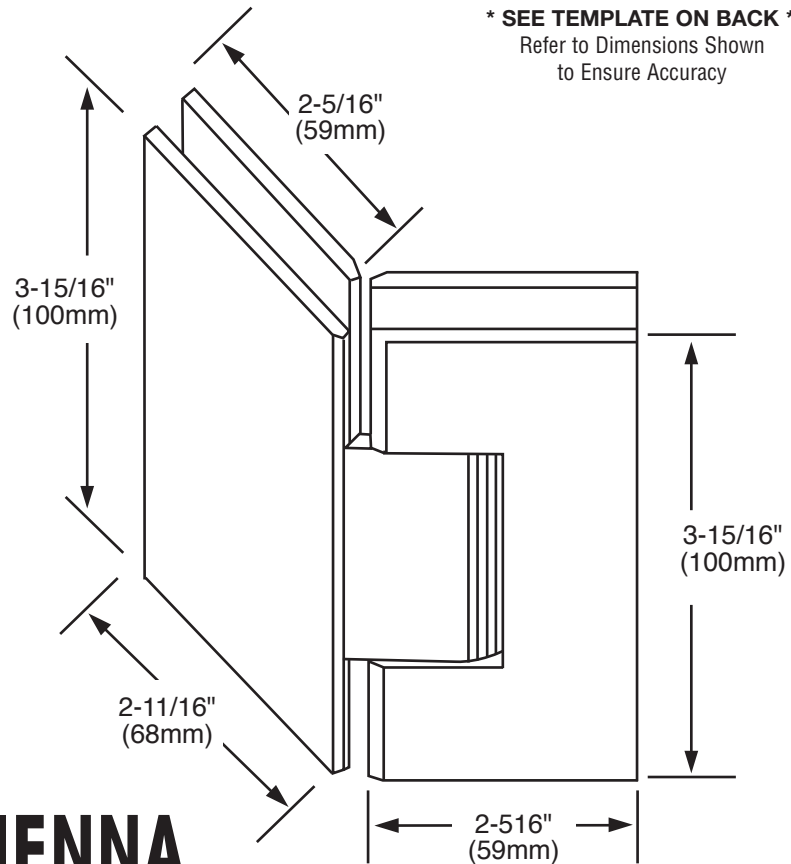
IMPORTANT:
Project measurements from
the edge of the glass.

**"Mouse-Ear"
Cut-out Option**



VIENNA
180° Glass-to-Glass Hinge
CAT. No. V1E180

C.R. Laurence Co., Inc. For technical assistance in the United States call toll free (800) 421-6144; from Canada call toll free (877) 421-6144;
crlaurence.com Outside the U.S. and Canada call (323) 588-1281. Ask for Tech Sales at Extension 7740. Toll free fax (800) 458-7496.



VIENNA

135° Glass-to-Glass Hinge

CAT. No. V1E045

*Maximum Door Capacities	3/8" (10mm) Glass		1/2" (12mm) Glass	
	Weight	Width	Weight	Width
Using 2 Hinges	110 lbs.(50 kg)	36"(914mm)	110 lbs.(50 kg)	36"(914mm)
Using 3 Hinges	140 lbs.(64 kg)	36"(914mm)	140 lbs.(64 kg)	36"(914mm)

*NOTE: Do not exceed either maximum weight or width when choosing proper quantity of hinges.

Important Information:

- 1) This Hinge contains a dual degree pivot pin. The pivot pin is set for normal door closing position. You have the option of altering the closing position of the door 5 degrees inward by utilizing the opposite side of the pivot pin, which has been pre-machined. Special order custom pivot pins are available (Cat.No. V1EP1N) that can be machined at any angle up to 45 degrees.
- 2) The Vienna Hinge is designed to accommodate two types of cut-outs in the glass. If the two steel pins in the body of the Hinge are left in place, the "mouse ear" cut-out option should be used. This application is recommended to prevent slippage. If the two steel pins are removed, the rectangular cut-out option can be utilized.

Specifications:

Glass Sizes: 3/8" (10mm) to 1/2" (12mm) thick tempered safety glass
Construction: Solid brass
Closing Type: Self-centering when within 15° of closed position
Cut-out Required
Includes: Gaskets, screws and template

Use of Gaskets:

For 3/8" (10mm) Glass: Use one thick gasket on each side
For 1/2" (12mm) Glass: Use one thin gasket on each side

Recommendations:

For public safety, we recommend the use of only tempered safety glass. Do not use power tools when installing these hinges.

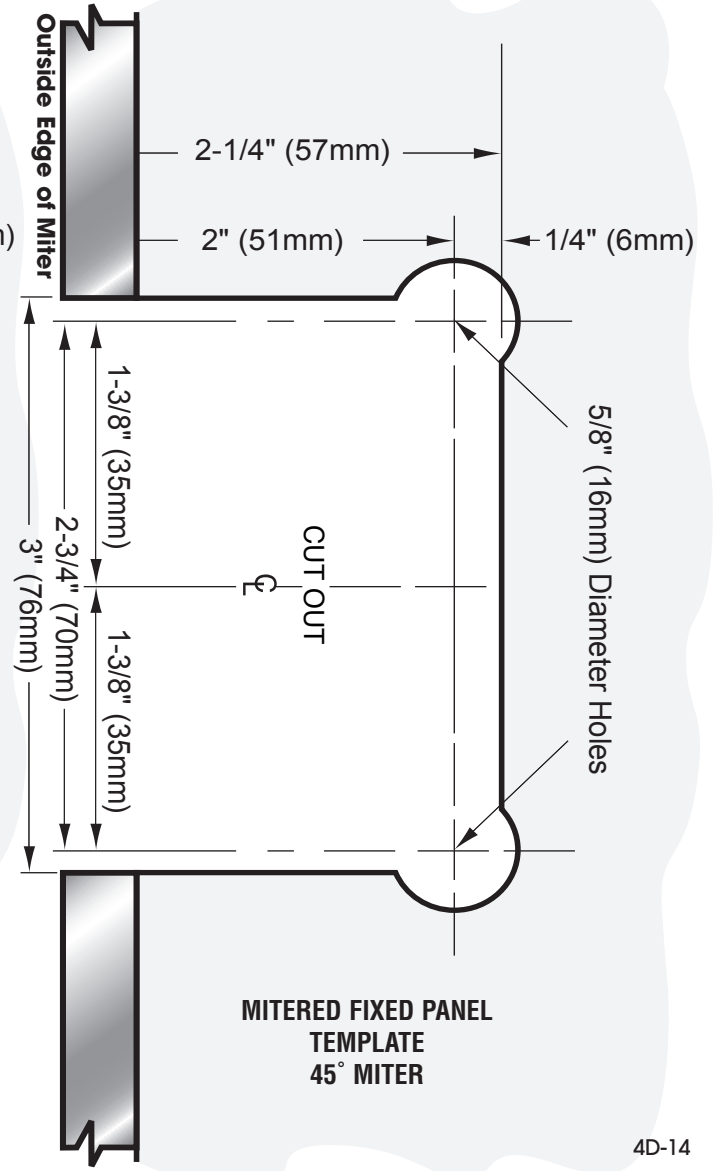
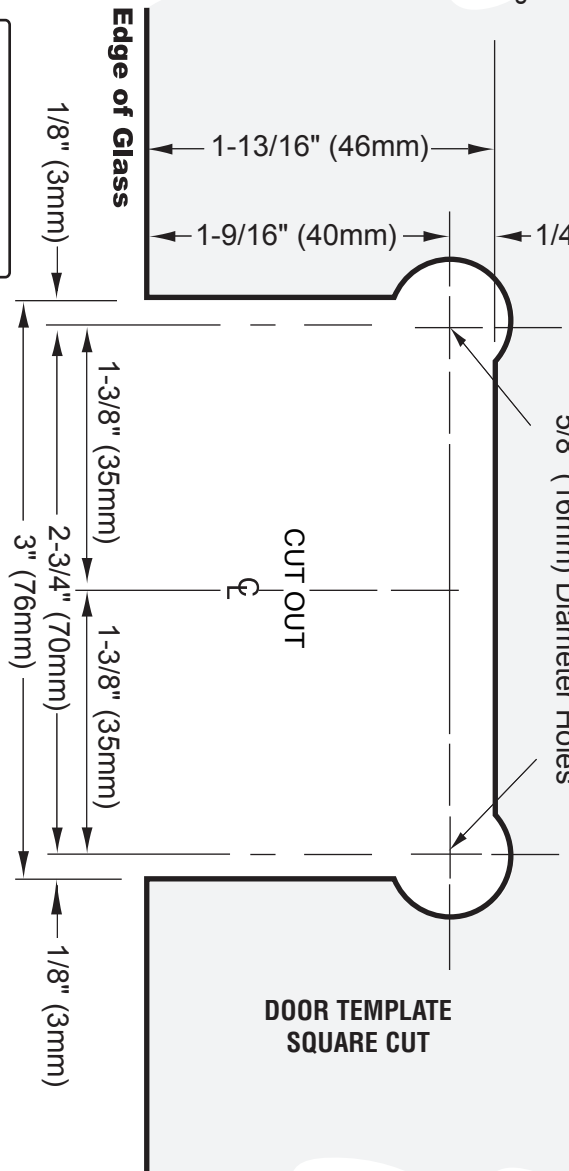
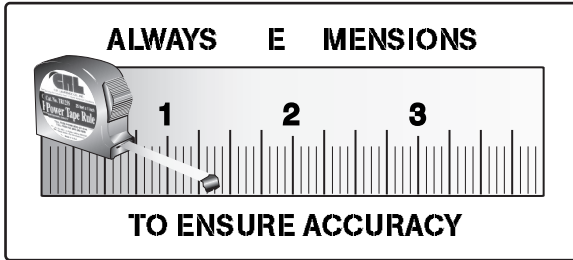
Maintenance Guidelines:

- Our hinges are greased at the factory for quiet and trouble-free operation. If there is any squeaking that occurs after installation, put a drop of "3 in 1 Oil" (also known as "household oil") on the white nylon washer that the hinge body pivots on. This washer is the component that acts as a buffer, so the body of the hinge doesn't pivot directly on the brass center block. This solution doesn't require the disassembly of the hinge.
Note: Do not use spray lubricant on these hinges. If the hinge has been disassembled, upon re-assembly, use white lithium grease to lubricate the interior mechanism.
- Never use an abrasive cleaner on the hardware. Many of the components are coated with a clear lacquer that will be irreparably damaged if subjected to harsh, abrasive chemicals. Advise your customer that drying the hardware with a clean, soft towel on a daily basis is the best way to maintain the hardware. If mineral deposits build-up, mix a couple of drops of a mild liquid soap (such as Ivory or a similar product) into a cup of warm water. Using a soft, non-abrasive cloth, clean the hardware. Rinse thoroughly with clean, warm water and dry.



C.R. LAURENCE CO., INC.
PROFESSIONAL QUALITY

IMPORTANT:
Project measurements from
the edge of the glass.



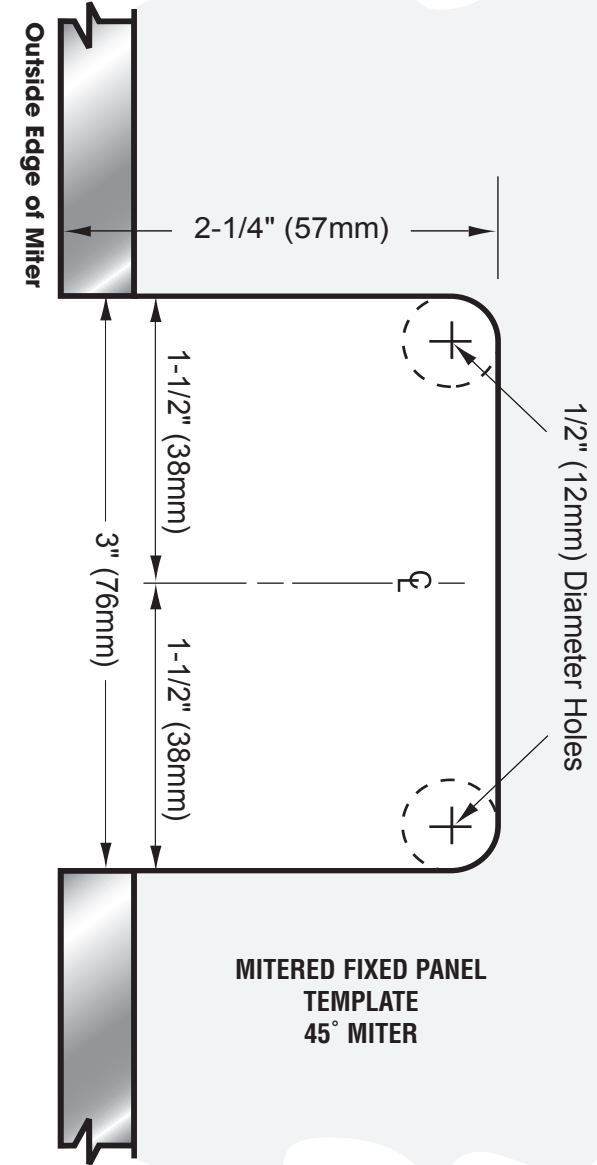
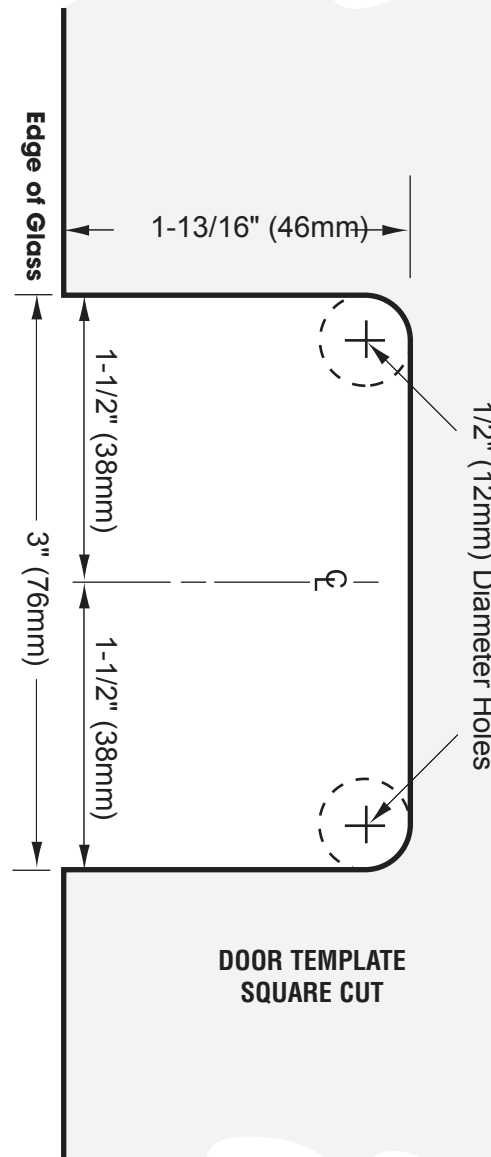
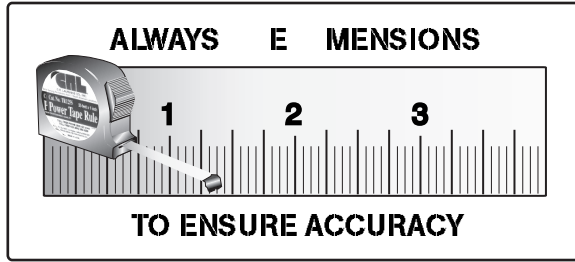
VIENNA
135° Glass-to-Glass Hinge
CAT. No. V1E045
"Mouse-Ear" Cut-out Option



C.R. LAURENCE CO., INC.
PROFESSIONAL QUALITY

IMPORTANT:

Project measurements from the edge of the glass.



VIENNA

135° Glass-to-Glass

CAT. No. V1E045

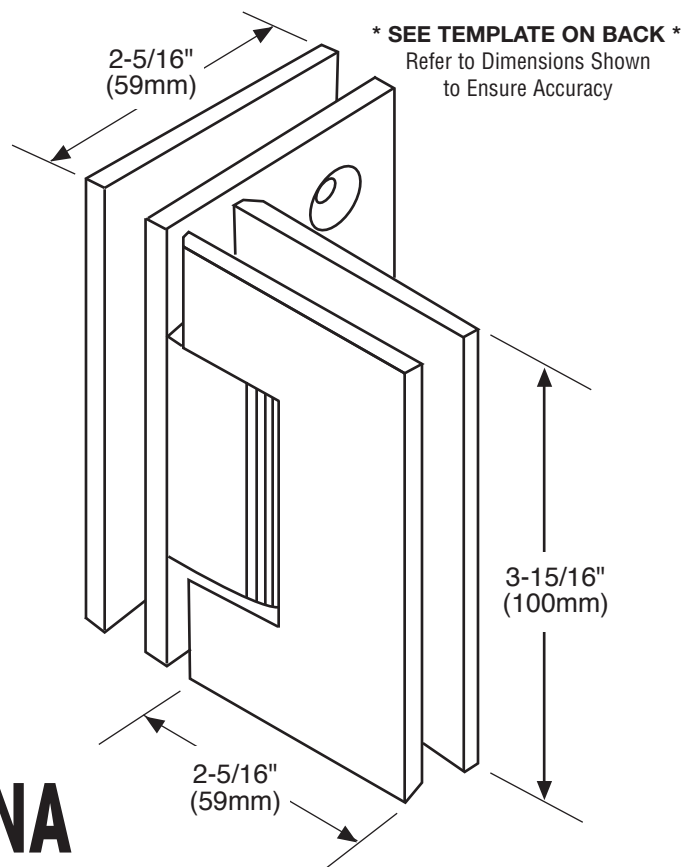
Rectangular Cut-Out Option



C.R. Laurence Company has established a Technical Sales Department to assist our customers. If you have any questions concerning shower door hardware or any product from CRL, please contact us at:
(800) 421-6144 in the U.S.,
or (877) 421-6144 from Canada,
and ask for Extension 7740



C.R. LAURENCE CO., INC.
PROFESSIONAL QUALITY



VIENNA

90° Glass-to-Glass Hinge

CAT. No. V1E092

*Maximum Door Capacities	3/8" (10mm) Glass Weight	3/8" (10mm) Glass Width	1/2" (12mm) Glass Weight	1/2" (12mm) Glass Width
Using 2 Hinges	110 lbs.(50 kg)	36"(914mm)	110 lbs.(50 kg)	36"(914mm)
Using 3 Hinges	140 lbs.(64 kg)	36"(914mm)	140 lbs.(64 kg)	36"(914mm)

*NOTE: Do not exceed either maximum weight or width when choosing proper quantity of hinges.

Important Information:

- 1) This Hinge contains a dual degree pivot pin. The pivot pin is set for normal door closing position. You have the option of altering the closing position of the door 5 degrees inward by utilizing the opposite side of the pivot pin, which has been pre-machined. Special order custom pivot pins are available (Cat.No. V1EP1N) that can be machined at any angle up to 45 degrees.
- 2) The Vienna Hinge is designed to accommodate two types of cut-outs in the glass. If the two steel pins in the body of the Hinge are left in place, the "mouse ear" cut-out option should be used. This application is recommended to prevent slippage. If the two steel pins are removed, the rectangular cut-out option can be utilized.
- 3) The door and fixed panel require different fabrication.

Specifications:

Glass Sizes: 3/8" (10mm) to 1/2" (12mm) thick tempered safety glass
Construction: Solid brass
Closing Type: Self-centering when within 15° of closed position
Cut-out Required
Includes: Gaskets, screws and template

Use of Gaskets:

For 3/8" (10mm) Glass: Use one thick gasket on each side
For 1/2" (12mm) Glass: Use one thin gasket on each side

Recommendations:

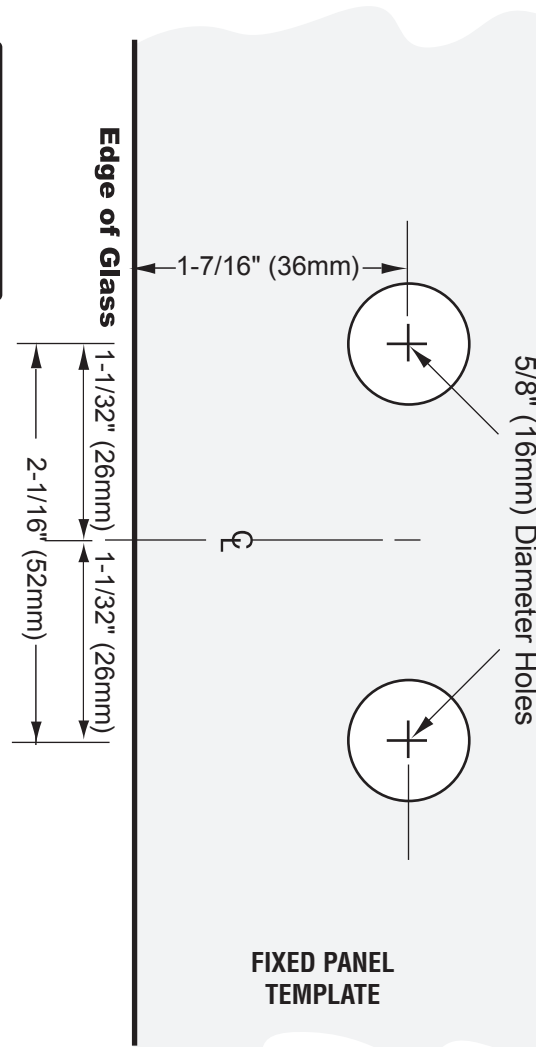
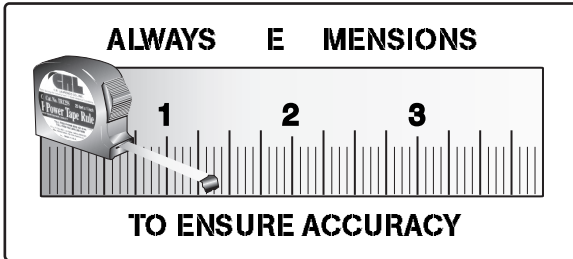
For public safety, we recommend the use of only tempered safety glass. Do not use power tools when installing these hinges.

Maintenance Guidelines:

- Our hinges are greased at the factory for quiet and trouble-free operation. If there is any squeaking that occurs after installation, put a drop of "3 in 1 Oil" (also known as "household oil") on the white nylon washer that the hinge body pivots on. This washer is the component that acts as a buffer, so the body of the hinge doesn't pivot directly on the brass center block. This solution doesn't require the disassembly of the hinge.
Note: Do not use spray lubricant on these hinges. If the hinge has been disassembled, upon re-assembly, use white lithium grease to lubricate the interior mechanism.
- Never use an abrasive cleaner on the hardware. Many of the components are coated with a clear lacquer that will be irreparably damaged if subjected to harsh, abrasive chemicals. Advise your customer that drying the hardware with a clean, soft towel on a daily basis is the best way to maintain the hardware. If mineral deposits build-up, mix a couple of drops of a mild liquid soap (such as Ivory or a similar product) into a cup of warm water. Using a soft, non-abrasive cloth, clean the hardware. Rinse thoroughly with clean, warm water and dry.

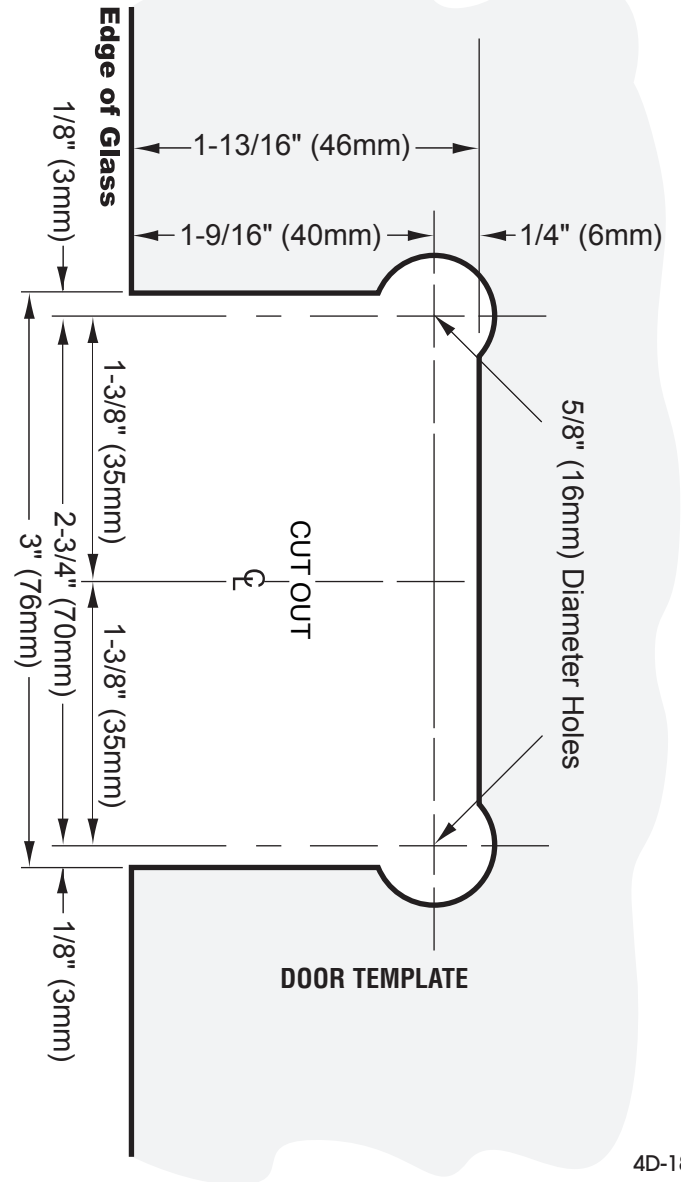


C.R. LAURENCE CO., INC.
PROFESSIONAL QUALITY



IMPORTANT:
Project measurements from the edge of the glass.

"Mouse-Ear" Cut-out Option



VIENNA

90° Glass-to-Glass Hinge

Cat. No. V1E092

"Mouse-Ear" Cut-Out Option

C.R. Laurence Co., Inc.
crlaurence.com

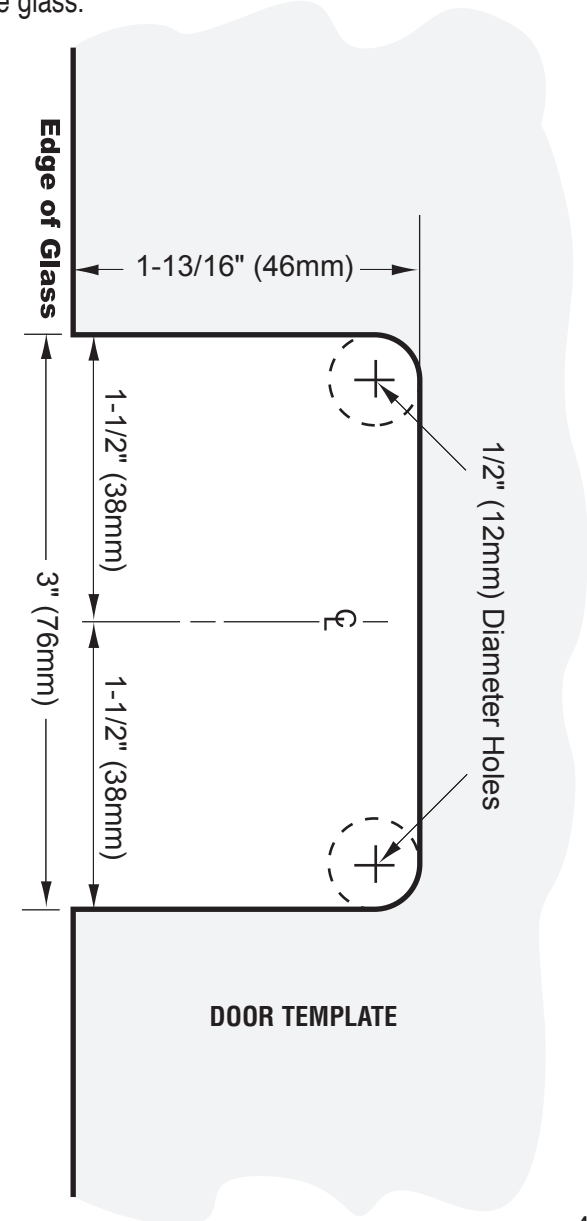
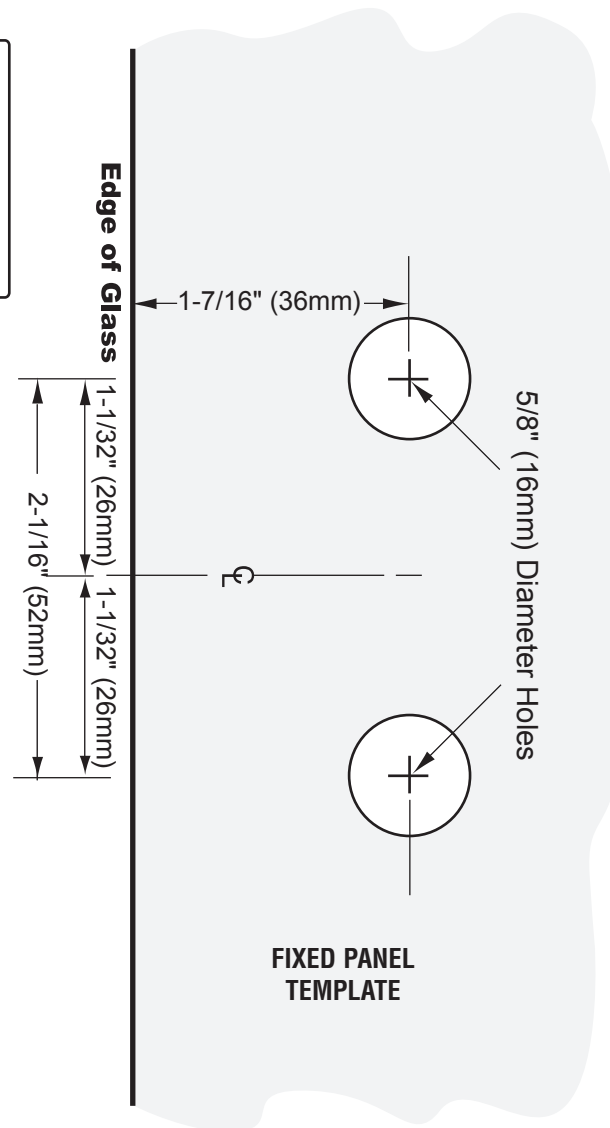
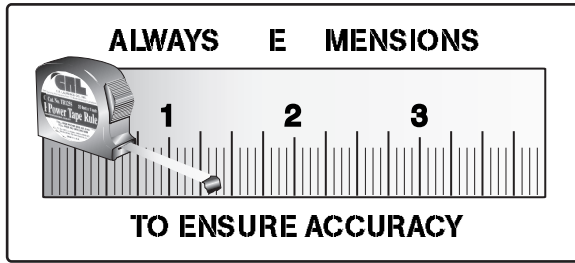
For technical assistance in the United States call toll free (800) 421-6144; from Canada call toll free (877) 421-6144; Outside the U.S. and Canada call (323) 588-1281. Ask for Tech Sales at Extension 7740. Toll free fax (800) 458-7496.



C.R. LAURENCE CO., INC.
PROFESSIONAL QUALITY

IMPORTANT:
Project measurements from
the edge of the glass.

**Rectangular
Cut-out Option**



VIENNA
90° Glass-to-Glass Hinge
CAT. No. V1E092
Rectangular Cut-Out Option

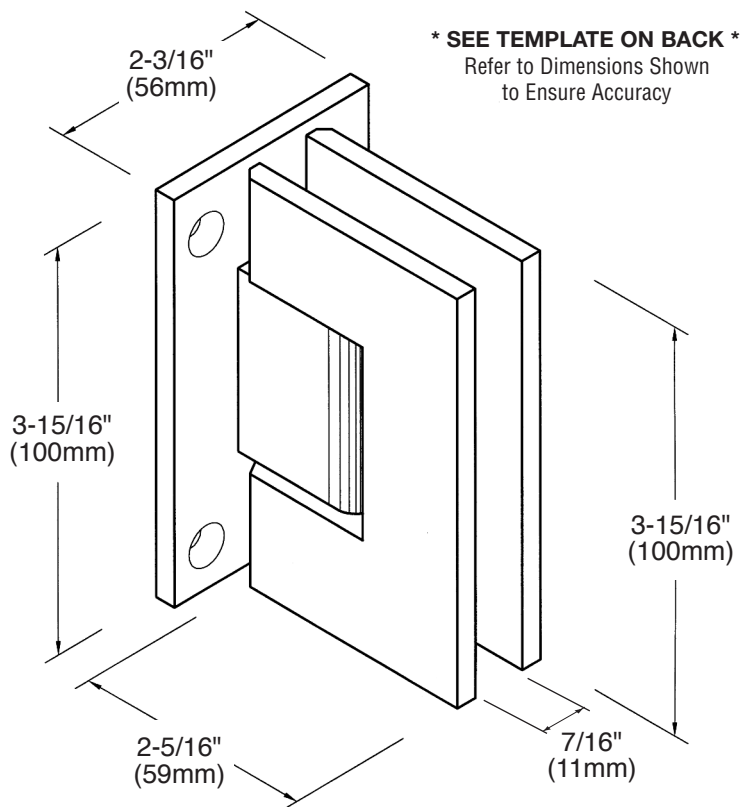


C.R. Laurence Company has established a Technical Sales Department to assist our customers. If you have any questions concerning shower door hardware or any product from CRL, please contact us at:

**(800) 421-6144 in the U.S.,
or (877) 421-6144 from Canada,
and ask for Extension 7740**



C.R. LAURENCE CO., INC.
PROFESSIONAL QUALITY



Important Information:

- 1) This hinge adjusts to accommodate a desired door angle up to 90° after the door is installed. This is achieved by loosening the two Allen set screws (located in the center block), moving the door to the desired position, and then tightening the set screws. The self-centering position has now been changed to the angle you desire.
- 2) The Vienna Hinge is designed to accommodate two types of cut-outs in the glass. If the two steel pins in the body of the Hinge are left in place, the "mouse ear" cut-out option should be used. This application is recommended to prevent slippage. If the two steel pins are removed, the rectangular cut-out option can be utilized.

Specifications:

Glass Sizes: 3/8" (10mm) to 1/2" (12mm) thick tempered safety glass
Construction: Solid brass
Closing Type: Self-centering when within 15° of closed position
Cut-out Required
Includes: Gaskets, screws and template

Use of Gaskets:

For 3/8" (10mm) Glass: Use one thick gasket on each side
For 1/2" (12mm) Glass: Use one thin gasket on each side

Recommendations:

For public safety, we recommend the use of only tempered safety glass. Do not use power tools when installing these hinges.

Maintenance Guidelines:

- Our hinges are greased at the factory for quiet and trouble-free operation. If there is any squeaking that occurs after installation, put a drop of "3 in 1 Oil" (also known as "household oil") on the white nylon washer that the hinge body pivots on. This washer is the component that acts as a buffer, so the body of the hinge doesn't pivot directly on the brass center block. This solution doesn't require the disassembly of the hinge.
Note: Do not use spray lubricant on these hinges. If the hinge has been disassembled, upon re-assembly, use white lithium grease to lubricate the interior mechanism.
- Never use an abrasive cleaner on the hardware. Many of the components are coated with a clear lacquer that will be irreparably damaged if subjected to harsh, abrasive chemicals. Advise your customer that drying the hardware with a clean, soft towel on a daily basis is the best way to maintain the hardware. If mineral deposits build-up, mix a couple of drops of a mild liquid soap (such as Ivory or a similar product) into a cup of warm water. Using a soft, non-abrasive cloth, clean the hardware. Rinse thoroughly with clean, warm water and dry.

VIENNA

Wall Mount Hinge - Full Back Plate (Adjustable)

CAT. No. V1E337

*Maximum Door Capacities	3/8" (10mm) Glass		1/2" (12mm) Glass	
	Weight	Width	Weight	Width
Using 2 Hinges	110 lbs.(50 kg)	36"(914mm)	110 lbs.(50 kg)	36"(914mm)
Using 3 Hinges	140 lbs.(64 kg)	36"(914mm)	140 lbs.(64 kg)	36"(914mm)

*NOTE: Do not exceed either maximum weight or width when choosing proper quantity of hinges.

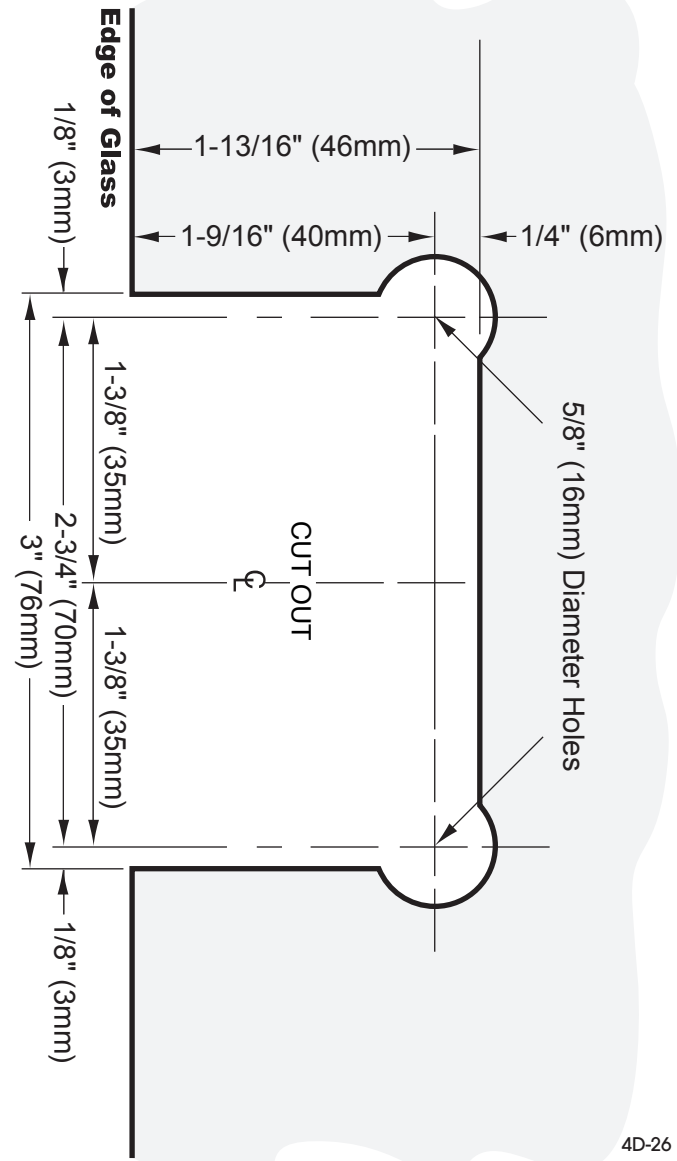
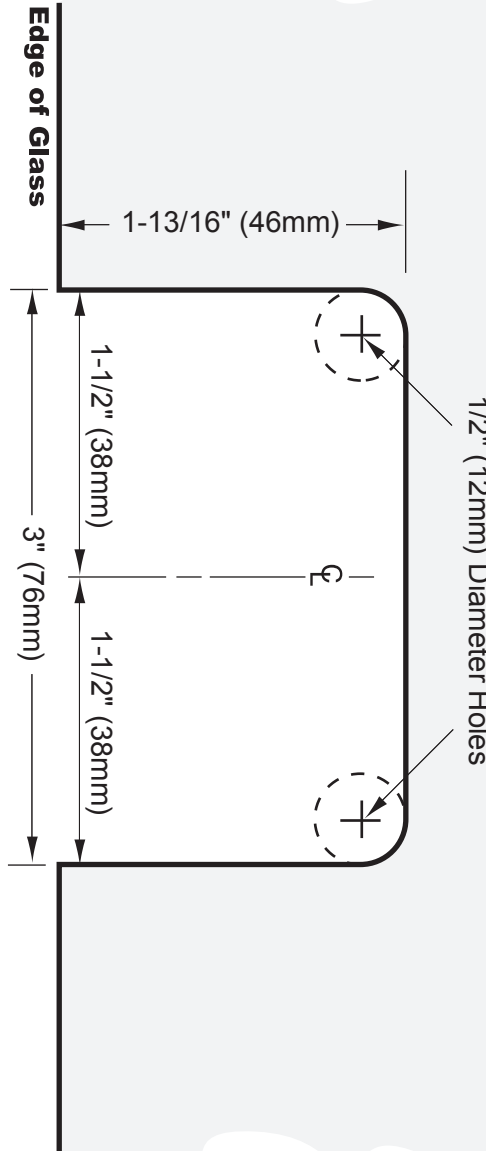
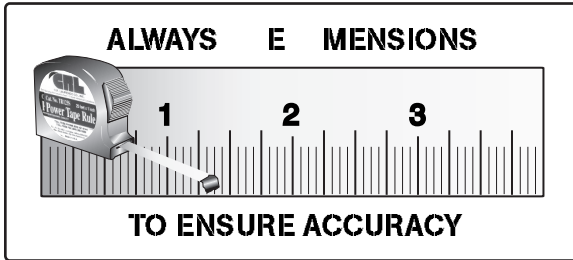


C.R. LAURENCE CO., INC.
PROFESSIONAL QUALITY

**Rectangular
Cut-out Option**

IMPORTANT:
Project measurements from
the edge of the glass.

**"Mouse-Ear"
Cut-out Option**



VIENNA

Wall Mount Hinge - Full Back Plate
(Adjustable)

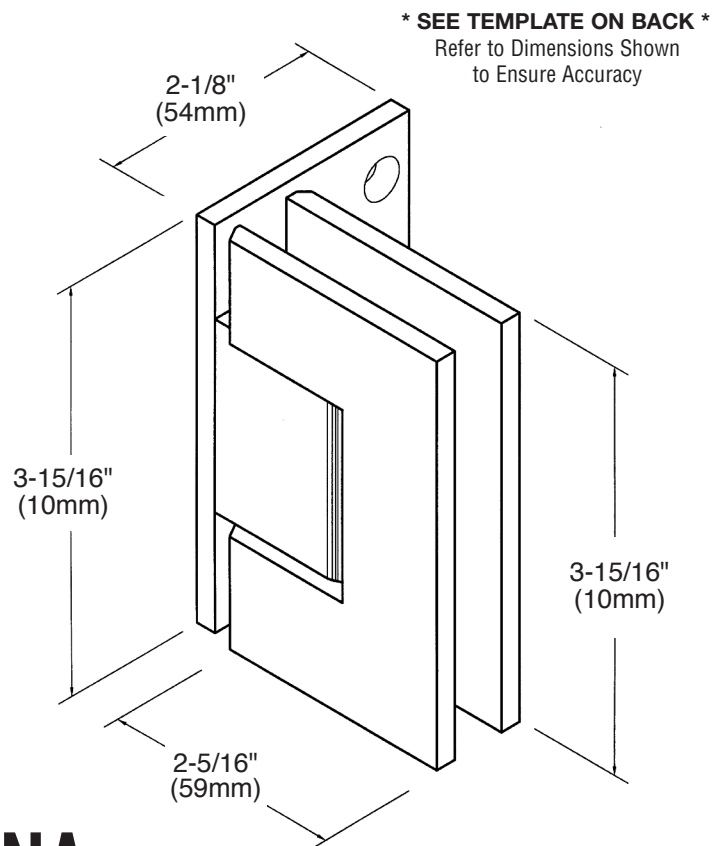
CAT. No. V1E337

C.R. Laurence Co., Inc.
crlaurence.com

For technical assistance in the United States call toll free (800) 421-6144; from Canada call toll free (877) 421-6144; Outside the U.S. and Canada call (323) 588-1281. Ask for Tech Sales at Extension 7740. Toll free fax (800) 458-7496.



C.R. LAURENCE CO., INC.
PROFESSIONAL QUALITY



VIENNA

Wall Mount Hinge – Offset Back Plate

CAT No. VIE044

*Maximum Door Capacities	3/8" (10mm) Glass		1/2" (12mm) Glass	
	Weight	Width	Weight	Width
Using 2 Hinges	100 lbs.(45 kg)	34"(86mm)	100 lbs.(45 kg)	32"(813mm)
Using 3 Hinges	130 lbs.(59 kg)	34"(86mm)	130 lbs.(59 kg)	32"(813mm)

*NOTE: Do not exceed either maximum weight or width when choosing proper quantity of hinges.

Important Information:

This hinge contains a dual degree pivot pin. The pivot pin is set for normal door closing position. You have the option of altering the closing position of the door 5 degrees inward by utilizing the opposite side of the pivot pin, which has been pre-machined (see Section 3 of Cat. No. SDT21 Frameless Shower Door Guide for this procedure). Special order custom pivot pins are available (Cat.No. V1EP1N) that can be machined at any angle up to 45 degrees.

Specifications:

Glass Sizes: 3/8" (10mm) to 1/2" (12mm) thick tempered safety glass
Construction: Solid brass
Closing Type: Self-centering when within 15° of closed position
Cutout Required
Includes: Gaskets, screws and template

Use of Gaskets:

For 3/8"(10mm) Glass: Use one thick gasket on each side
For 1/2"(12mm) Glass: Use one thin gasket on each side

Recommendations:

For public safety, we recommend the use of only tempered safety glass. Do not use power tools when installing these hinges.

Maintenance Guidelines:

- Our hinges are greased at the factory for quiet and trouble-free operation. If there is any squeaking that occurs after installation, put a drop of "3 in 1 Oil" (also known as "household oil") on the white nylon washer that the hinge body pivots on. This washer is the component that acts as a buffer, so the body of the hinge doesn't pivot directly on the brass center block. This solution doesn't require the disassembly of the hinge.
Note: Do not use spray lubricant on these hinges. If the hinge has been disassembled, upon re-assembly, use white lithium grease to lubricate the interior mechanism.
- Never use an abrasive cleaner on the hardware. Many of the components are coated with a clear lacquer that will be irreparably damaged if subjected to harsh, abrasive chemicals. Advise your customer that drying the hardware with a clean, soft towel on a daily basis is the best way to maintain the hardware. If mineral deposits build-up, mix a couple of drops of a mild liquid soap (such as Ivory or a similar product) into a cup of warm water. Using a soft, non-abrasive cloth, clean the hardware. Rinse thoroughly with clean, warm water and dry.

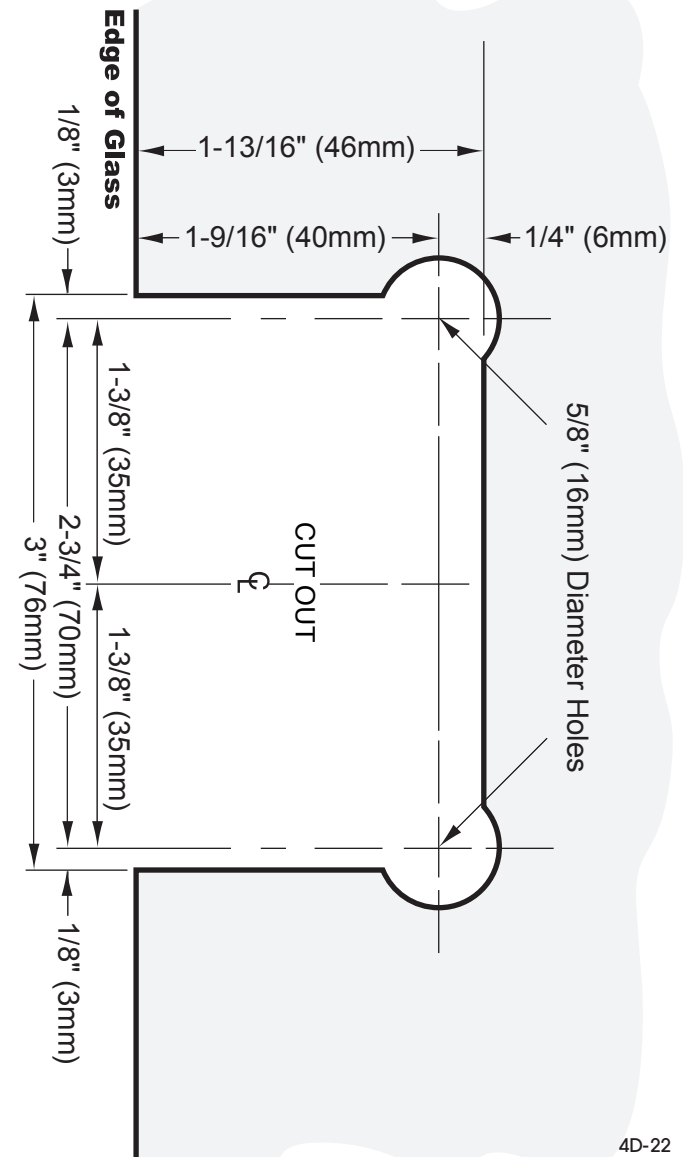
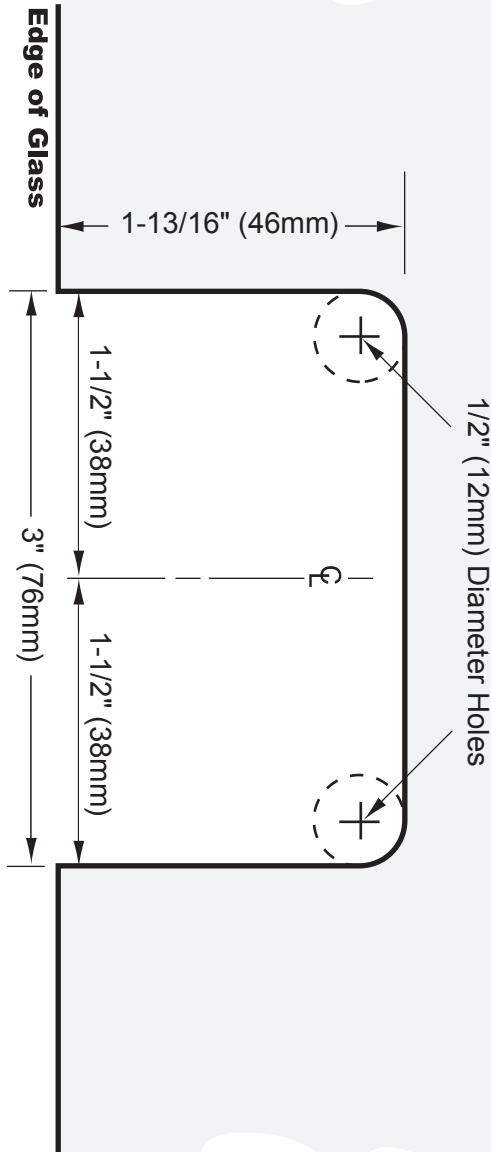
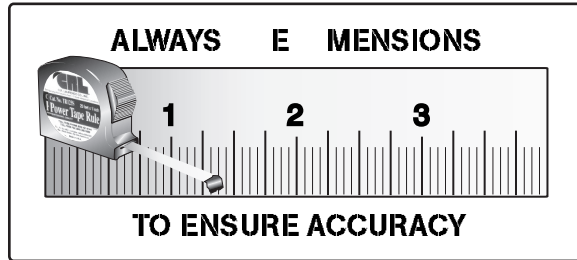


C.R. LAURENCE CO., INC.
PROFESSIONAL QUALITY

**Rectangular
Cut-out Option**

IMPORTANT:
Project measurements from
the edge of the glass.

**"Mouse-Ear"
Cut-out Option**



VIENNA

Wall Mount Hinge - Offset Back Plate

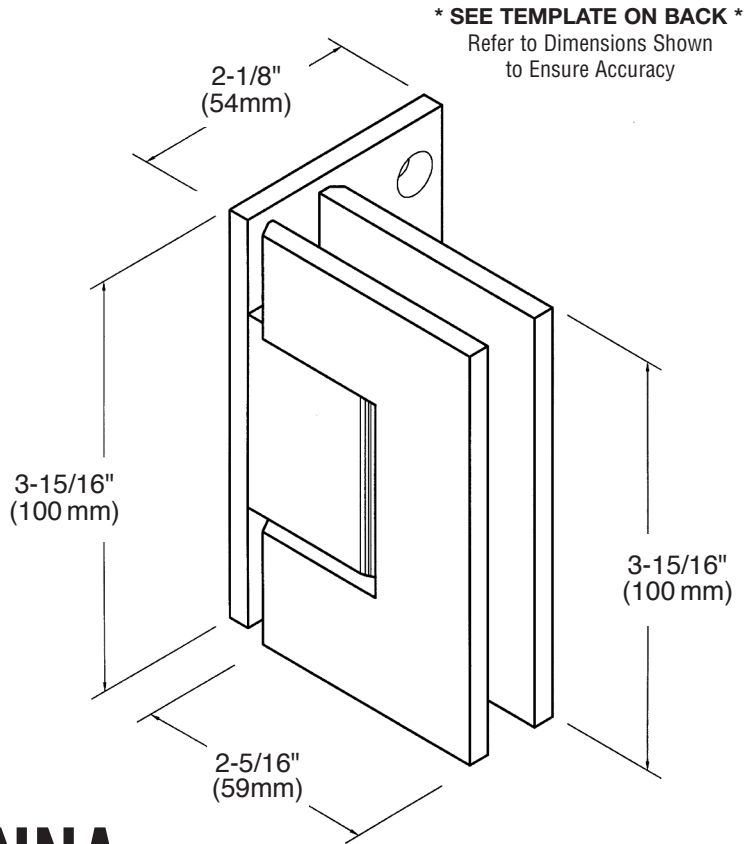
CAT. No. V1E044

C.R. Laurence Co., Inc.
crlaurence.com

For technical assistance in the United States call toll free (800) 421-6144; from Canada call toll free (877) 421-6144; Outside the U.S. and Canada call (323) 588-1281. Ask for Tech Sales at Extension 7740. Toll free fax (800) 458-7496.



C.R. LAURENCE CO., INC.
PROFESSIONAL QUALITY



Important Information:

This hinge contains a dual degree pivot pin. The pivot pin is set for the door to close 5 degrees inwards from the normal closing position. You have the option of altering the closing position of the door 5 degrees (back to normal closing position) by utilizing the opposite side of the pivot pin, which has been pre-machined (see Section 3 of Cat. No. SDT21 Frameless Shower Door Guide for this procedure). Special order custom pivot pins are available (Cat. No. V1EP1N) that can be machined at any angle up to 45 degrees.

Specifications:

Glass Sizes: 3/8" (10mm) to 1/2" (12mm) thick tempered safety glass

Construction: Solid brass

Closing Type: Self-centering when within 15° of closed position

Cutout Required

Includes: Gaskets, screws and template

Use of Gaskets:

For 3/8"(10mm) Glass: Use one thick gasket on each side

For 1/2"(12mm) Glass: Use one thin gasket on each side

Recommendations:

For public safety, we recommend the use of only tempered safety glass.
 Do not use power tools when installing these hinges.

Maintenance Guidelines:

- Our hinges are greased at the factory for quiet and trouble-free operation. If there is any squeaking that occurs after installation, put a drop of "3 in 1 Oil" (also known as "household oil") on the white nylon washer that the hinge body pivots on. This washer is the component that acts as a buffer, so the body of the hinge doesn't pivot directly on the brass center block. This solution doesn't require the disassembly of the hinge.

Note: Do not use spray lubricant on these hinges. If the hinge has been disassembled, upon re-assembly, use white lithium grease to lubricate the interior mechanism.

- Never use an abrasive cleaner on the hardware. Many of the components are coated with a clear lacquer that will be irreparably damaged if subjected to harsh, abrasive chemicals. Advise your customer that drying the hardware with a clean, soft towel on a daily basis is the best way to maintain the hardware. If mineral deposits build-up, mix a couple of drops of a mild liquid soap (such as Ivory or a similar product) into a cup of warm water. Using a soft, non-abrasive cloth, clean the hardware. Rinse thoroughly with clean, warm water and dry.

VIENNA

Wall Mount Hinge – Offset Back Plate

CAT No. VIE544 (5° Preset Pivot Pin)

*Maximum Door Capacities	3/8" (10mm) Glass		1/2" (12mm) Glass	
	Weight	Width	Weight	Width
Using 2 Hinges	100 lbs.(45 kg)	34"(864 mm)	100 lbs.(45 kg)	32"(813mm)
Using 3 Hinges	130 lbs.(59 kg)	34"(864 mm)	130 lbs.(59 kg)	32"(813mm)

*NOTE: Do not exceed either maximum weight or width when choosing proper quantity of hinges.

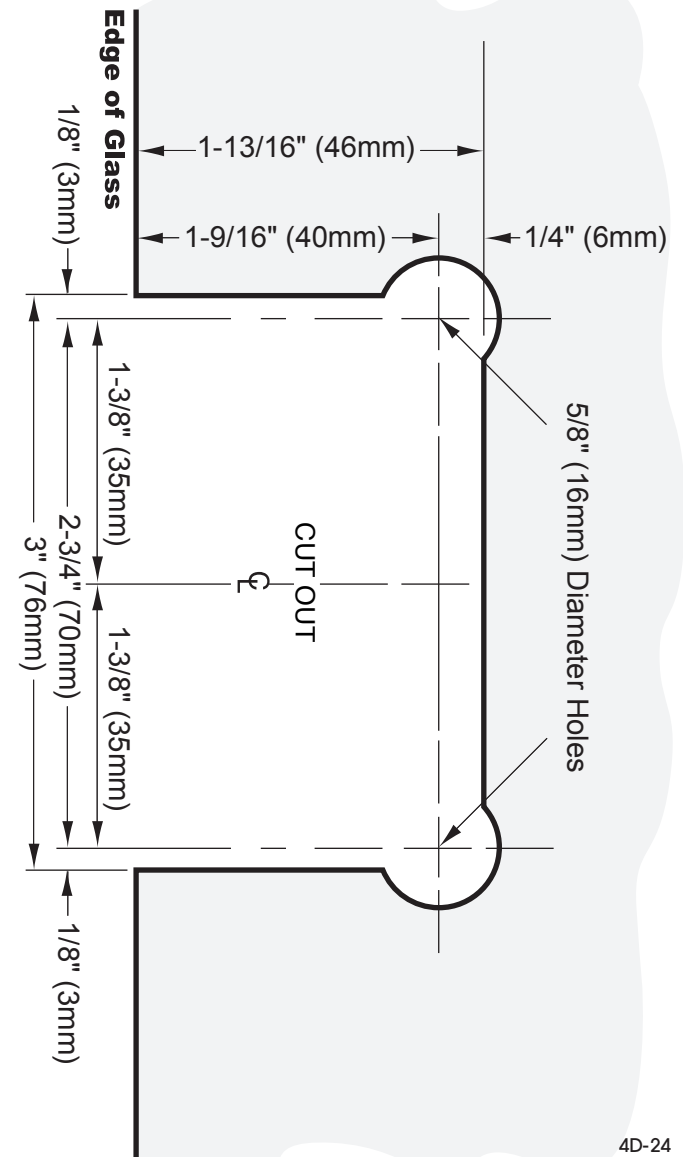
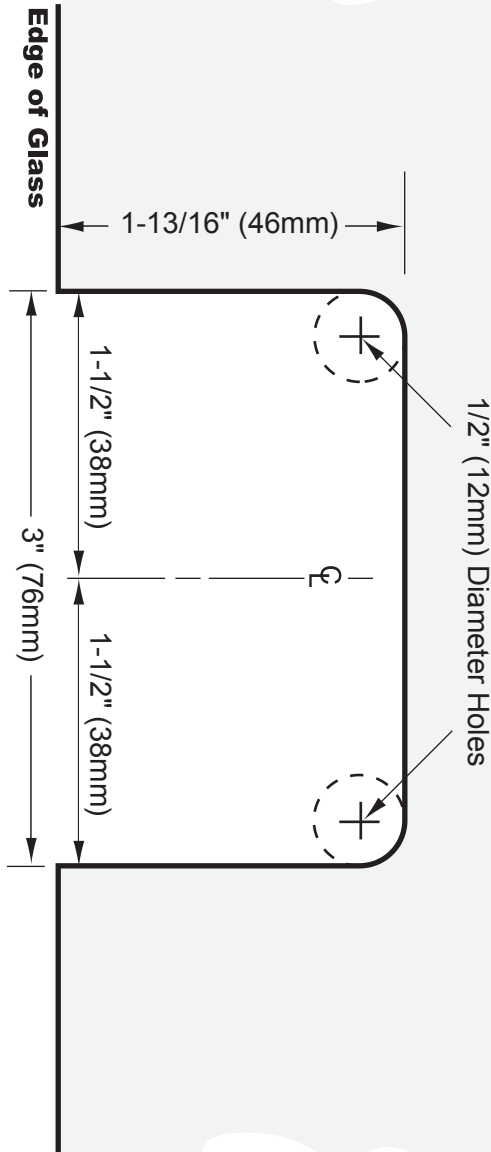
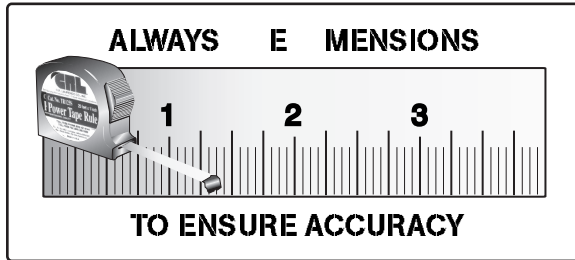


C.R. LAURENCE CO., INC.
PROFESSIONAL QUALITY

**Rectangular
Cut-out Option**

IMPORTANT:
Project measurements from
the edge of the glass.

**"Mouse-Ear"
Cut-out Option**



VIENNA

Wall Mount Hinge
Offset Back Plate

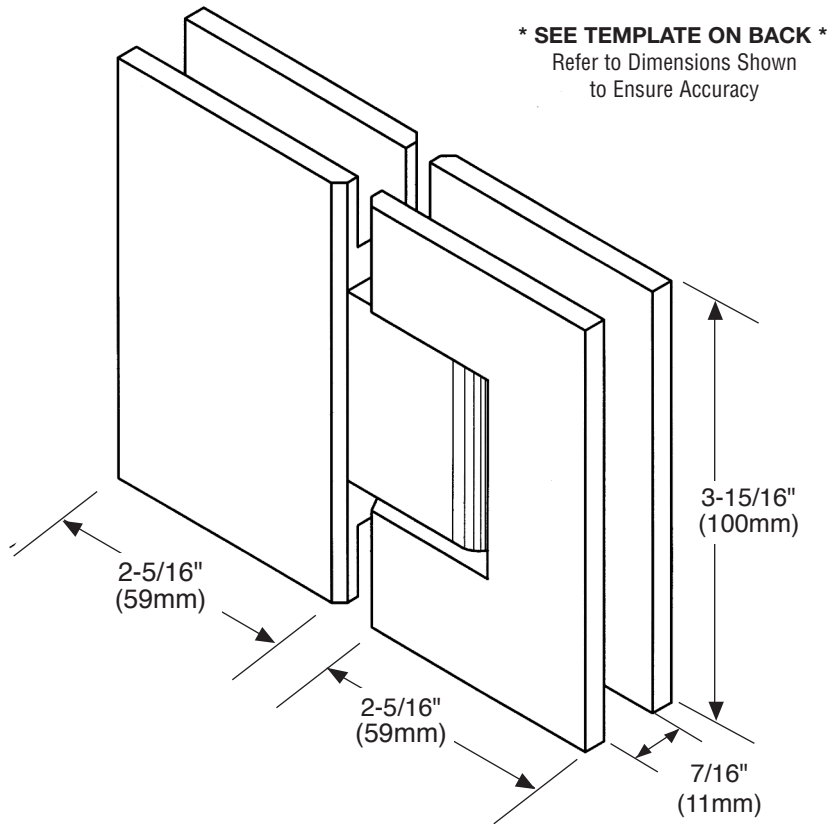
CAT No. VIE544 (5° Preset Pivot Pin)

C.R. Laurence Co., Inc.
crlaurence.com

For technical assistance in the United States call toll free (800) 421-6144; from Canada call toll free (877) 421-6144; Outside the U.S. and Canada call (323) 588-1281. Ask for Tech Sales at Extension 7740. Toll free fax (800) 458-7496.



C.R. LAURENCE CO., INC.
PROFESSIONAL QUALITY



VIENNA

180° Glass-to-Glass Hinge (Adjustable)

CAT. No. V1E380

*Maximum Door Capacities	3/8" (10mm) Glass		1/2" (12mm) Glass	
	Weight	Width	Weight	Width
Using 2 Hinges	110 lbs.(50 kg)	36"(914mm)	110 lbs.(50 kg)	36"(914mm)
Using 3 Hinges	140 lbs.(64 kg)	36"(914mm)	140 lbs.(64 kg)	36"(914mm)

*NOTE: Do not exceed either maximum weight or width when choosing proper quantity of hinges.

Important Information:

- 1) This Hinge adjusts to accommodate a desired door angle up to 90°, after the door is installed. This is achieved by loosening the two Allen set screws (located in the center block), moving the door to the desired position, and then tightening the set screws. The self-centering position has now been changed to the angle you desire.
- 2) The Vienna Hinge is designed to accommodate two types of cut-outs in the glass. If the two steel pins in the body of the Hinge are left in place, the "mouse ear" cut-out option should be used. This application is recommended to prevent slippage. If the two steel pins are removed, the rectangular cut-out option can be utilized.

Specifications:

Glass Sizes: 3/8" (10mm) to 1/2" (12mm) thick tempered safety glass
Construction: Solid brass
Closing Type: Self-centering when within 15° of closed position
Cut-out Required
Includes: Gaskets, screws and template

Use of Gaskets:

For 3/8" (10mm) Glass: Use one thick gasket on each side
For 1/2" (12mm) Glass: Use one thin gasket on each side

Recommendations:

For public safety, we recommend the use of only tempered safety glass.
 Do not use power tools when installing these hinges.

Maintenance Guidelines:

- Our hinges are greased at the factory for quiet and trouble-free operation. If there is any squeaking that occurs after installation, put a drop of "3 in 1 Oil" (also known as "household oil") on the white nylon washer that the hinge body pivots on. This washer is the component that acts as a buffer, so the body of the hinge doesn't pivot directly on the brass center block. This solution doesn't require the disassembly of the hinge.
Note: Do not use spray lubricant on these hinges. If the hinge has been disassembled, upon re-assembly, use white lithium grease to lubricate the interior mechanism.
- Never use an abrasive cleaner on the hardware. Many of the components are coated with a clear lacquer that will be irreparably damaged if subjected to harsh, abrasive chemicals. Advise your customer that drying the hardware with a clean, soft towel on a daily basis is the best way to maintain the hardware. If mineral deposits build-up, mix a couple of drops of a mild liquid soap (such as Ivory or a similar product) into a cup of warm water. Using a soft, non-abrasive cloth, clean the hardware. Rinse thoroughly with clean, warm water and dry.

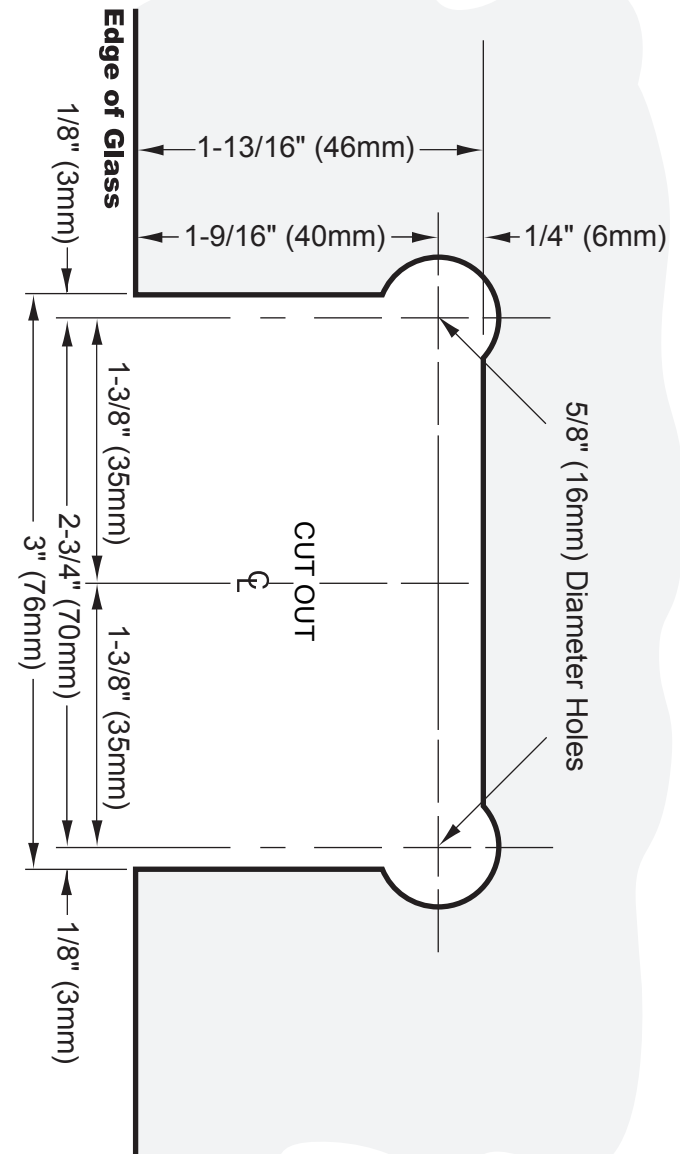
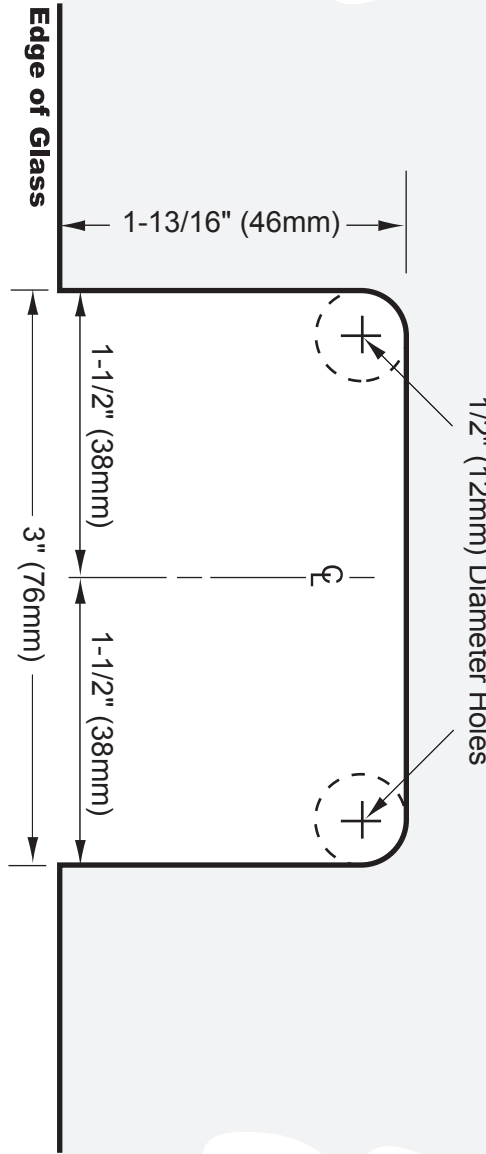
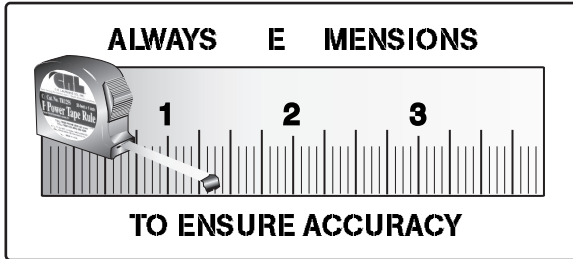


C.R. LAURENCE CO., INC.
PROFESSIONAL QUALITY

**Rectangular
Cut-out Option**

IMPORTANT:
Project measurements from
the edge of the glass.

**"Mouse-Ear"
Cut-out Option**



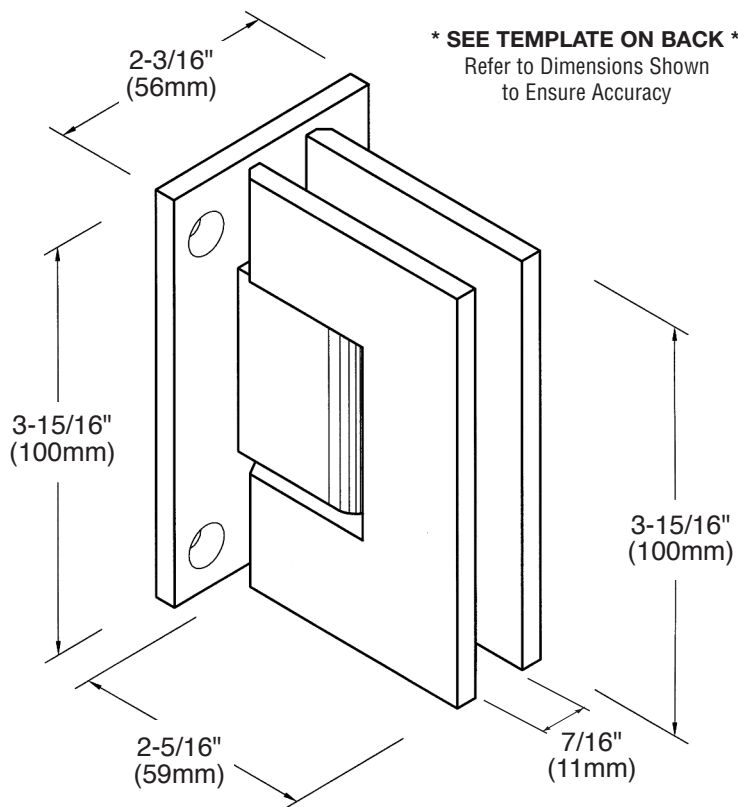
VIENNA

180° Glass-to-Glass Hinge
(Adjustable)

CAT. No. V1E380



C.R. LAURENCE CO., INC.
PROFESSIONAL QUALITY



VIENNA

Wall Mount Hinge (5° Offset)

CAT. No. V1E537

*Maximum Door Capacities	3/8" (10mm) Glass		1/2" (12mm) Glass	
	Weight	Width	Weight	Width
Using 2 Hinges	110 lbs.(50 kg)	36"(914mm)	110 lbs.(50 kg)	36"(914mm)
Using 3 Hinges	140 lbs.(64 kg)	36"(914mm)	140 lbs.(64 kg)	36"(914mm)

*NOTE: Do not exceed either maximum weight or width when choosing proper quantity of hinges.

Important Information:

- 1) This Hinge contains a dual degree pivot pin. The pivot pin is set for the door to close 5 degrees inwards from the normal closing position. You have the option of altering the closing position of the door 5 degrees (back to normal closing position) by utilizing the opposite side of the pivot pin, which has been pre-machined (see Section 3 of Cat. No. SDT21) Frameless Shower Door Guide for this procedure). Special order custom pivot pins are available (Cat.No. V1EP1N) that can be machined at any angle up to 45 degrees.
- 2) The Vienna Hinge is designed to accommodate two types of cut-outs in the glass. If the two steel pins in the body of the Hinge are left in place, the "mouse ear" cut-out option should be used. This application is recommended to prevent slippage. If the two steel pins are removed, the rectangular cut-out option can be utilized.

Specifications:

- Glass Sizes:** 3/8" (10mm) to 1/2" (12mm) thick tempered safety glass
- Construction:** Solid brass
- Closing Type:** Self-centering when within 15° of closed position
- Cut-out Required**
- Includes:** Gaskets, screws and template

Use of Gaskets:

- For 3/8" (10mm) Glass:** Use one thick gasket on each side
- For 1/2" (12mm) Glass:** Use one thin gasket on each side

Recommendations:

For public safety, we recommend the use of only tempered safety glass. Do not use power tools when installing these hinges.

Maintenance Guidelines:

- Our hinges are greased at the factory for quiet and trouble-free operation. If there is any squeaking that occurs after installation, put a drop of "3 in 1 Oil" (also known as "household oil") on the white nylon washer that the hinge body pivots on. This washer is the component that acts as a buffer, so the body of the hinge doesn't pivot directly on the brass center block. This solution doesn't require the disassembly of the hinge.
Note: Do not use spray lubricant on these hinges. If the hinge has been disassembled, upon re-assembly, use white lithium grease to lubricate the interior mechanism.
- Never use an abrasive cleaner on the hardware. Many of the components are coated with a clear lacquer that will be irreparably damaged if subjected to harsh, abrasive chemicals. Advise your customer that drying the hardware with a clean, soft towel on a daily basis is the best way to maintain the hardware. If mineral deposits build-up, mix a couple of drops of a mild liquid soap (such as Ivory or a similar product) into a cup of warm water. Using a soft, non-abrasive cloth, clean the hardware. Rinse thoroughly with clean, warm water and dry.

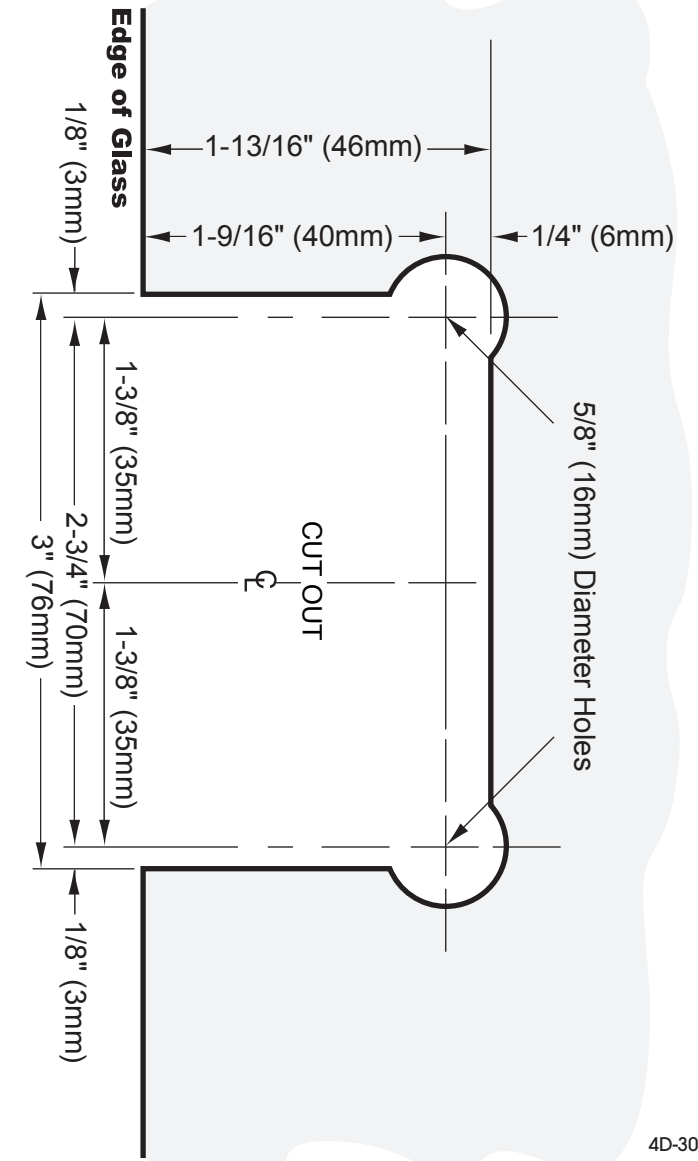
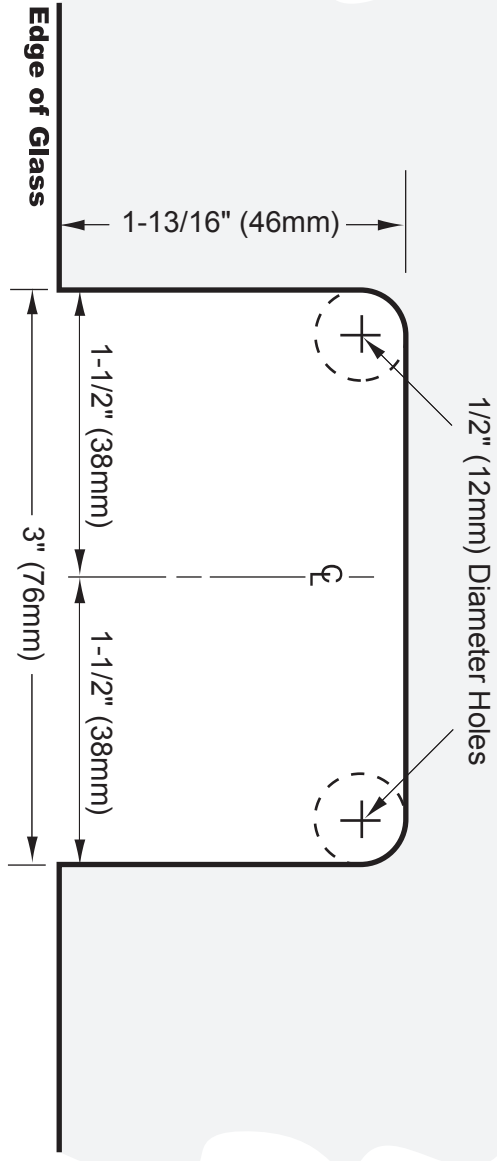
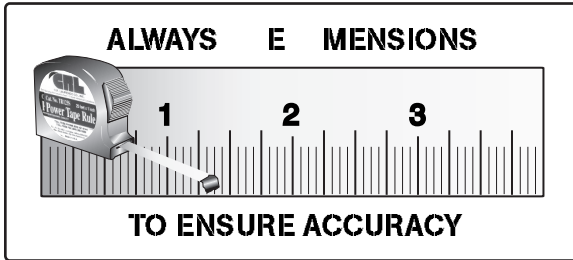


C.R. LAURENCE CO., INC.
PROFESSIONAL QUALITY

**Rectangular
Cut-out Option**

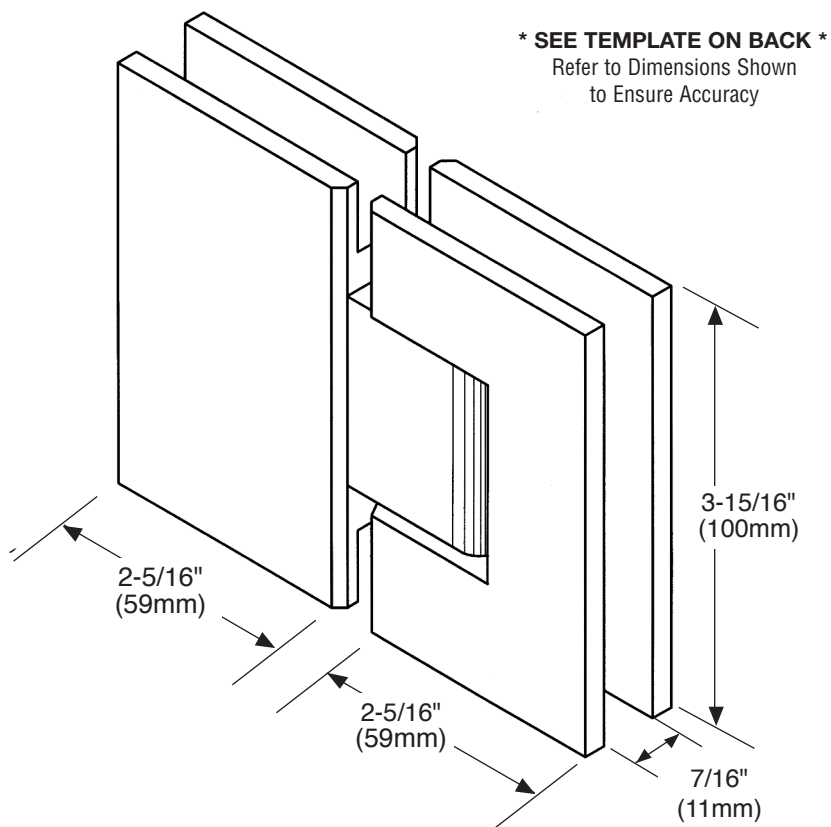
IMPORTANT:
Project measurements from
the edge of the glass.

**"Mouse-Ear"
Cut-out Option**



VIENNA
Wall Mount Hinge (5° Offset)
CAT. No. V1E537

C.R. Laurence Co., Inc. For technical assistance in the United States call toll free (800) 421-6144; from Canada call toll free (877) 421-6144;
crlaurence.com Outside the U.S. and Canada call (323) 588-1281. Ask for Tech Sales at Extension 7740. Toll free fax (800) 458-7496.



Important Information:

1) This hinge contains a dual degree pivot pin. The pivot pin is set for the door to close 5 degrees inward from the normal closing position. You have the option of altering the closing position of the door 5 degrees (back to normal closing position) by utilizing the opposite side of the pivot pin, which has been pre-machined (see Section 3 of Cat. No. SDT21 Frameless Shower Door Guide for this procedure). Special order custom pivot pins are available (Cat.No. VIEP1N) that can be machined at any angle up to 45 degrees.

2) The Vienna Hinge is designed to accommodate two types of cut-outs in the glass. If the two steel pins in the body of the Hinge are left in place, the "mouse ear" cut-out option should be used. This application is recommended to prevent slippage. If the two steel pins are removed, the rectangular cut-out option can be utilized.

Specifications:

Glass Sizes: 3/8" (10mm) to 1/2" (12mm) thick tempered safety glass

Construction: Solid brass

Closing Type: Self-centering when within 15° of closed position

Cut-out Required

Includes: Gaskets, screws and template

Use of Gaskets:

For 3/8" (10mm) Glass: Use one thick gasket on each side

For 1/2" (12mm) Glass: Use one thin gasket on each side

Recommendations:

For public safety, we recommend the use of only tempered safety glass.
Do not use power tools when installing these hinges.

Maintenance Guidelines:

- Our hinges are greased at the factory for quiet and trouble-free operation. If there is any squeaking that occurs after installation, put a drop of "3 in 1 Oil" (also known as "household oil") on the white nylon washer that the hinge body pivots on. This washer is the component that acts as a buffer, so the body of the hinge doesn't pivot directly on the brass center block. This solution doesn't require the disassembly of the hinge.

Note: Do not use spray lubricant on these hinges. If the hinge has been disassembled, upon re-assembly, use white lithium grease to lubricate the interior mechanism.

- Never use an abrasive cleaner on the hardware. Many of the components are coated with a clear lacquer that will be irreparably damaged if subjected to harsh, abrasive chemicals. Advise your customer that drying the hardware with a clean, soft towel on a daily basis is the best way to maintain the hardware. If mineral deposits build-up, mix a couple of drops of a mild liquid soap (such as Ivory or a similar product) into a cup of warm water. Using a soft, non-abrasive cloth, clean the hardware. Rinse thoroughly with clean, warm water and dry.

VIENNA

180° Glass-to-Glass Hinge (5° Offset)

CAT. No. V1E580

*Maximum Door Capacities	3/8" (10mm) Glass		1/2" (12mm) Glass	
	Weight	Width	Weight	Width
Using 2 Hinges	110 lbs.(50 kg)	36"(914mm)	110 lbs.(50 kg)	36"(914mm)
Using 3 Hinges	140 lbs.(64 kg)	36"(914mm)	140 lbs.(64 kg)	36"(914mm)

*NOTE: Do not exceed either maximum weight or width when choosing proper quantity of hinges.

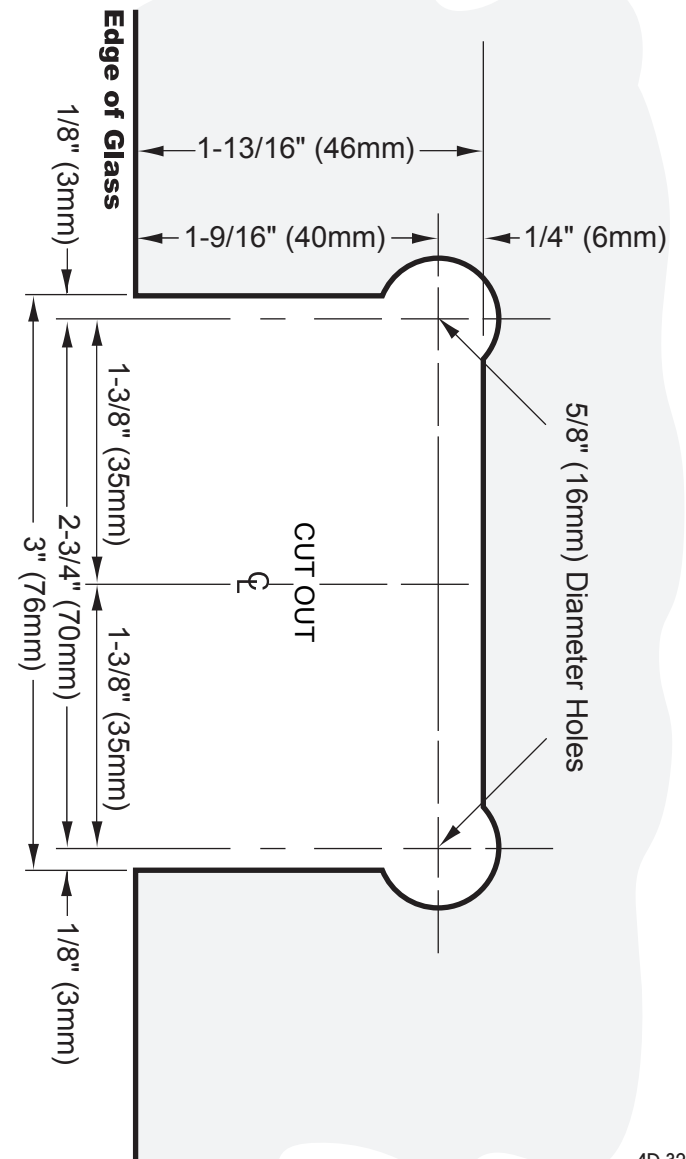
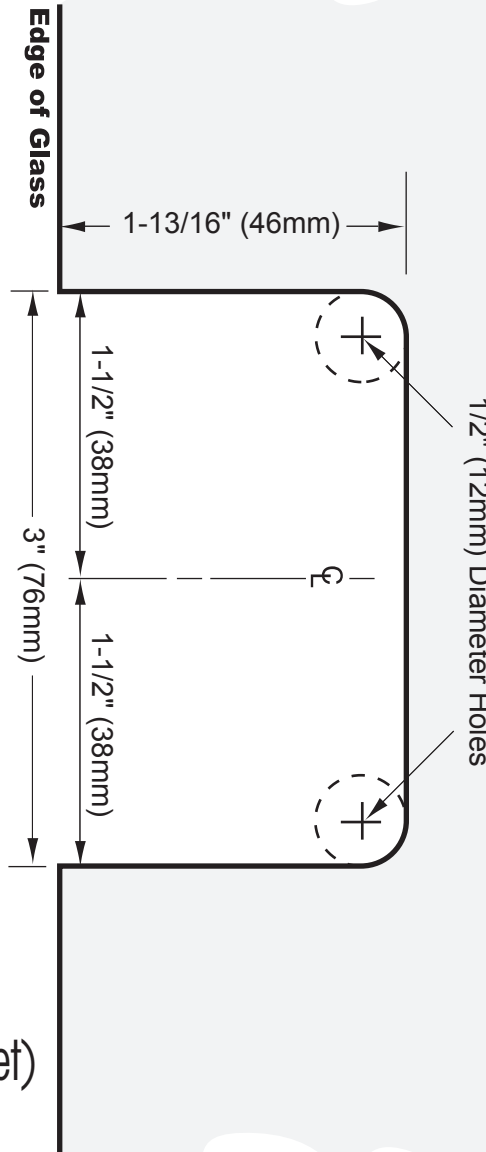
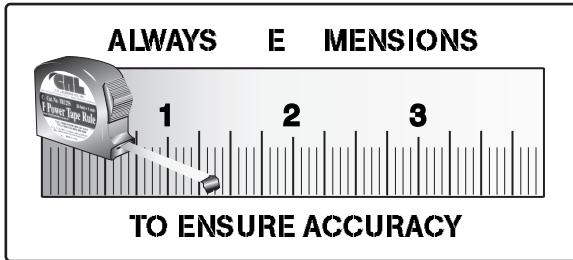


C.R. LAURENCE CO., INC.
PROFESSIONAL QUALITY

**Rectangular
Cut-out Option**

IMPORTANT:
Project measurements from
the edge of the glass.

**"Mouse-Ear"
Cut-out Option**



VIENNA

180° Glass-to-Glass Hinge (5° Offset)

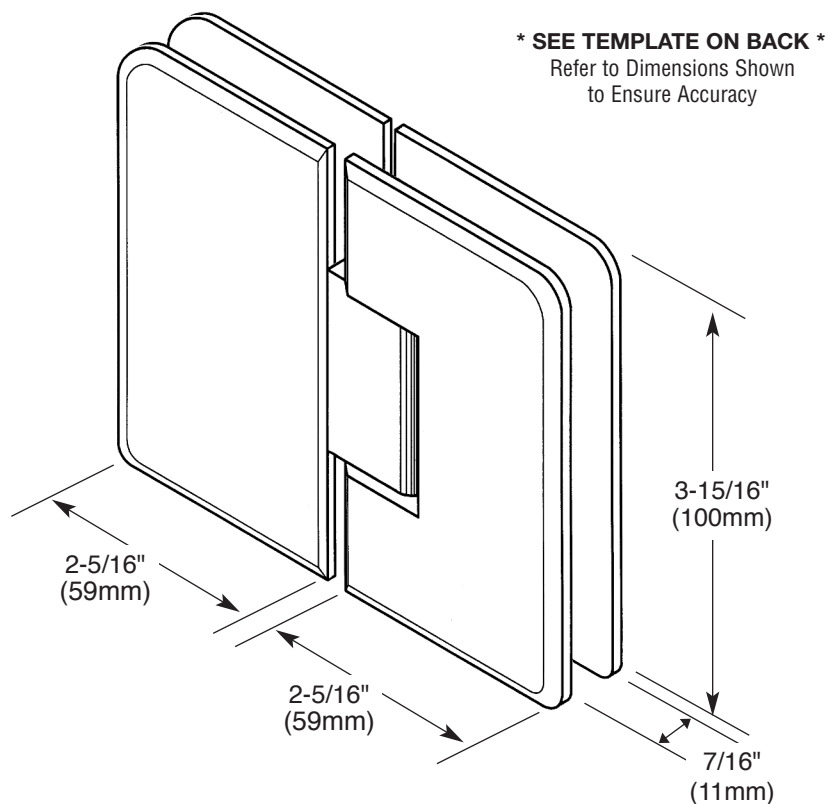
CAT. No. V1E580

C.R. Laurence Co., Inc.
crlaurence.com

For technical assistance in the United States call toll free (800) 421-6144; from Canada call toll free (877) 421-6144; Outside the U.S. and Canada call (323) 588-1281. Ask for Tech Sales at Extension 7740. Toll free fax (800) 458-7496.



C.R. LAURENCE CO., INC.
PROFESSIONAL QUALITY



COLOGNE

180° Glass-to-Glass Hinge

CAT. No. COL180

*Maximum Door Capacities	3/8" (10mm) Glass		1/2" (12mm) Glass	
	Weight	Width	Weight	Width
Using 2 Hinges	110 lbs.(50 kg)	36"(914mm)	110 lbs.(50 kg)	36"(914mm)
Using 3 Hinges	140 lbs.(64 kg)	36"(914mm)	140 lbs.(64 kg)	36"(914mm)

*NOTE: Do not exceed either maximum weight or width when choosing proper quantity of hinges.

Important Information:

- 1) This Hinge contains a dual degree pivot pin. The pivot pin is set for normal door closing position. You have the option of altering the closing position of the door 5 degrees inward by utilizing the opposite side of the pivot pin, which has been pre-machined. Special order custom pivot pins are available (Cat.No. V1EP1N) that can be machined at any angle up to 45 degrees.
- 2) The Cologne Hinge is designed to accommodate two types of cut-outs in the glass. If the two steel pins in the body of the Hinge are left in place, the "mouse ear" cut-out option should be used. This application is recommended to prevent slippage. If the two steel pins are removed, the rectangular cut-out option can be utilized.

Specifications:

Glass Sizes: 3/8" (10mm) to 1/2" (12mm) thick tempered safety glass
Construction: Solid brass
Closing Type: Self-centering when within 15° of closed position
Cut-out Required
Includes: Gaskets, screws and template

Use of Gaskets:

For 3/8" (10mm) Glass: Use one thick gasket on each side
For 1/2" (12mm) Glass: Use one thin gasket on each side

Recommendations:

For public safety, we recommend the use of only tempered safety glass. Do not use power tools when installing these hinges.

Maintenance Guidelines:

- Our hinges are greased at the factory for quiet and trouble-free operation. If there is any squeaking that occurs after installation, put a drop of "3 in 1 Oil" (also known as "household oil") on the white nylon washer that the hinge body pivots on. This washer is the component that acts as a buffer, so the body of the hinge doesn't pivot directly on the brass center block. This solution doesn't require the disassembly of the hinge.
Note: Do not use spray lubricant on these hinges. If the hinge has been disassembled, upon re-assembly, use white lithium grease to lubricate the interior mechanism.
- Never use an abrasive cleaner on the hardware. Many of the components are coated with a clear lacquer that will be irreparably damaged if subjected to harsh, abrasive chemicals. Advise your customer that drying the hardware with a clean, soft towel on a daily basis is the best way to maintain the hardware. If mineral deposits build-up, mix a couple of drops of a mild liquid soap (such as Ivory or a similar product) into a cup of warm water. Using a soft, non-abrasive cloth, clean the hardware. Rinse thoroughly with clean, warm water and dry.

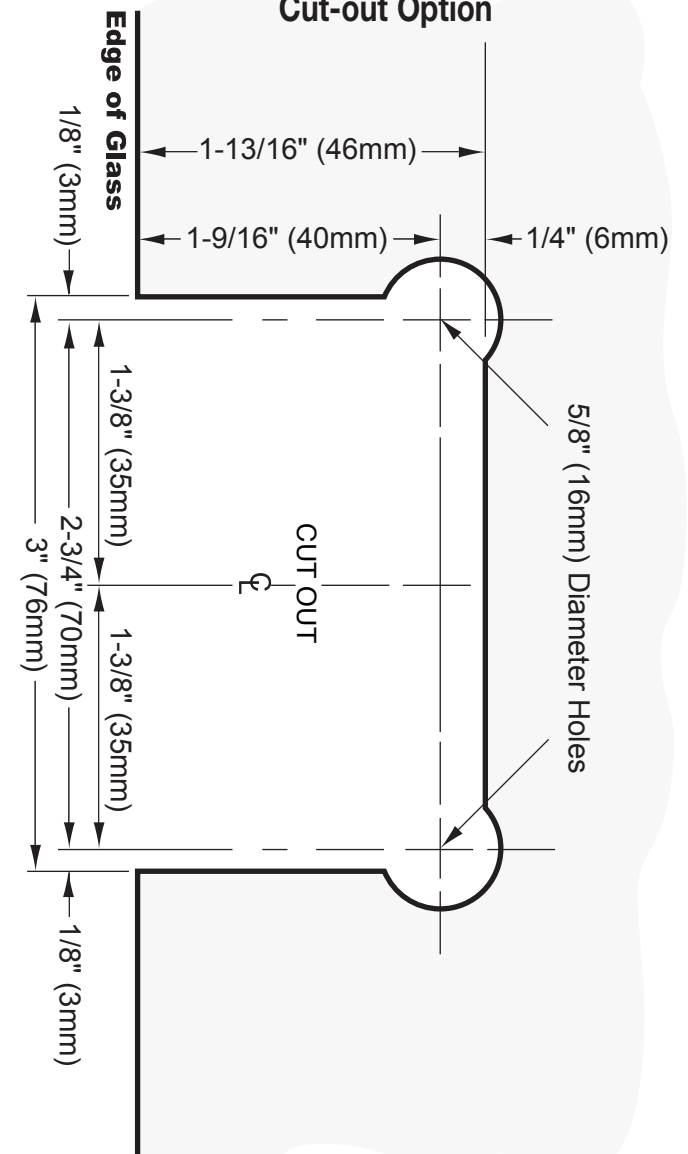
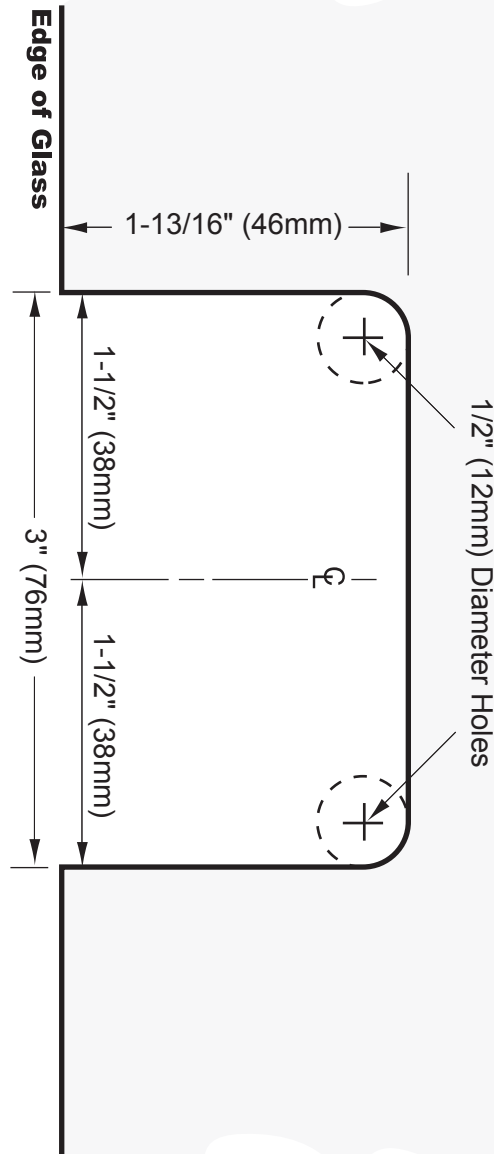
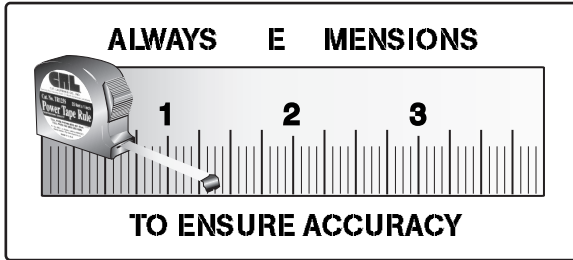


C.R. LAURENCE CO., INC.
PROFESSIONAL QUALITY

Rectangular Cut-out Option

IMPORTANT:
Project measurements from
the edge of the glass.

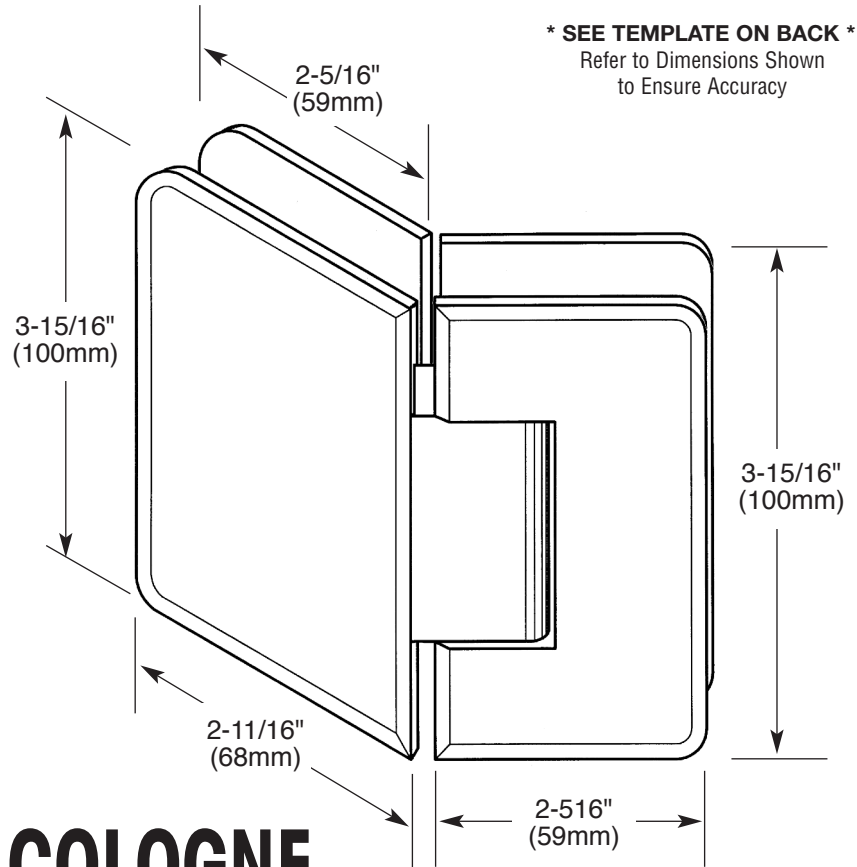
"Mouse-Ear" Cut-out Option



COLOGNE
180° Glass-to-Glass Hinge
CAT. No. COL180



C.R. LAURENCE CO., INC.
PROFESSIONAL QUALITY



COLOGNE

135° Glass-to-Glass Hinge

CAT. No. COL045

*Maximum Door Capacities	3/8" (10mm) Glass		1/2" (12mm) Glass	
	Weight	Width	Weight	Width
Using 2 Hinges	110 lbs.(50 kg)	36"(914mm)	110 lbs.(50 kg)	36"(914mm)
Using 3 Hinges	140 lbs.(64 kg)	36"(914mm)	140 lbs.(64 kg)	36"(914mm)

*NOTE: Do not exceed either maximum weight or width when choosing proper quantity of hinges.

Important Information:

- 1) This Hinge contains a dual degree pivot pin. The pivot pin is set for normal door closing position. You have the option of altering the closing position of the door 5 degrees inward by utilizing the opposite side of the pivot pin, which has been pre-machined. Special order custom pivot pins are available (Cat.No. V1EP1N) that can be machined at any angle up to 45 degrees.
- 2) The Cologne Hinge is designed to accommodate two types of cut-outs in the glass. If the two steel pins in the body of the Hinge are left in place, the "mouse ear" cut-out option should be used. This application is recommended to prevent slippage. If the two steel pins are removed, the rectangular cut-out option can be utilized.

Specifications:

Glass Sizes: 3/8" (10mm) to 1/2" (12mm) thick tempered safety glass
Construction: Solid brass
Closing Type: Self-centering when within 15° of closed position
Cut-out Required
Includes: Gaskets, screws and template

Use of Gaskets:

For 3/8" (10mm) Glass: Use one thick gasket on each side
For 1/2" (12mm) Glass: Use one thin gasket on each side

Recommendations:

For public safety, we recommend the use of only tempered safety glass.
 Do not use power tools when installing these hinges.

Maintenance Guidelines:

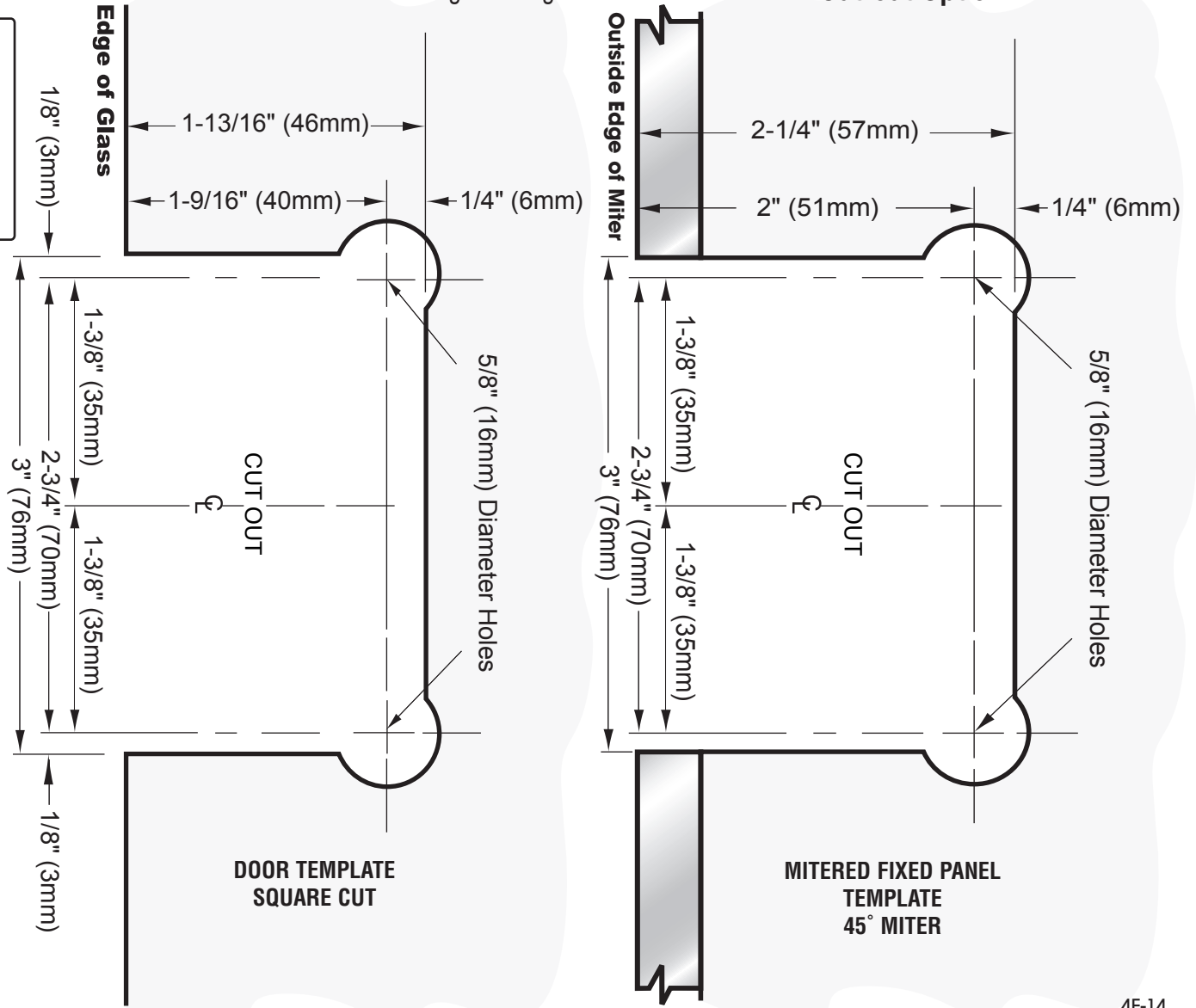
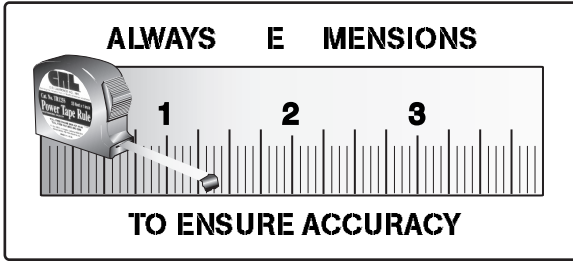
- Our hinges are greased at the factory for quiet and trouble-free operation. If there is any squeaking that occurs after installation, put a drop of "3 in 1 Oil" (also known as "household oil") on the white nylon washer that the hinge body pivots on. This washer is the component that acts as a buffer, so the body of the hinge doesn't pivot directly on the brass center block. This solution doesn't require the disassembly of the hinge.
Note: Do not use spray lubricant on these hinges. If the hinge has been disassembled, upon re-assembly, use white lithium grease to lubricate the interior mechanism.
- Never use an abrasive cleaner on the hardware. Many of the components are coated with a clear lacquer that will be irreparably damaged if subjected to harsh, abrasive chemicals. Advise your customer that drying the hardware with a clean, soft towel on a daily basis is the best way to maintain the hardware. If mineral deposits build-up, mix a couple of drops of a mild liquid soap (such as Ivory or a similar product) into a cup of warm water. Using a soft, non-abrasive cloth, clean the hardware. Rinse thoroughly with clean, warm water and dry.



C.R. LAURENCE CO., INC.
PROFESSIONAL QUALITY

IMPORTANT:
Project measurements from
the edge of the glass.

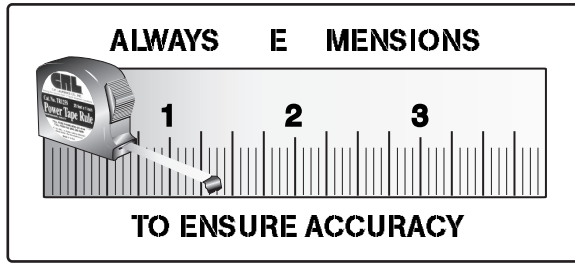
**"Mouse-Ear"
Cut-out Option**



COLOGNE
135° Glass-to-Glass Hinge
CAT. No. **COL045**
"Mouse-Ear" Cut-out Option

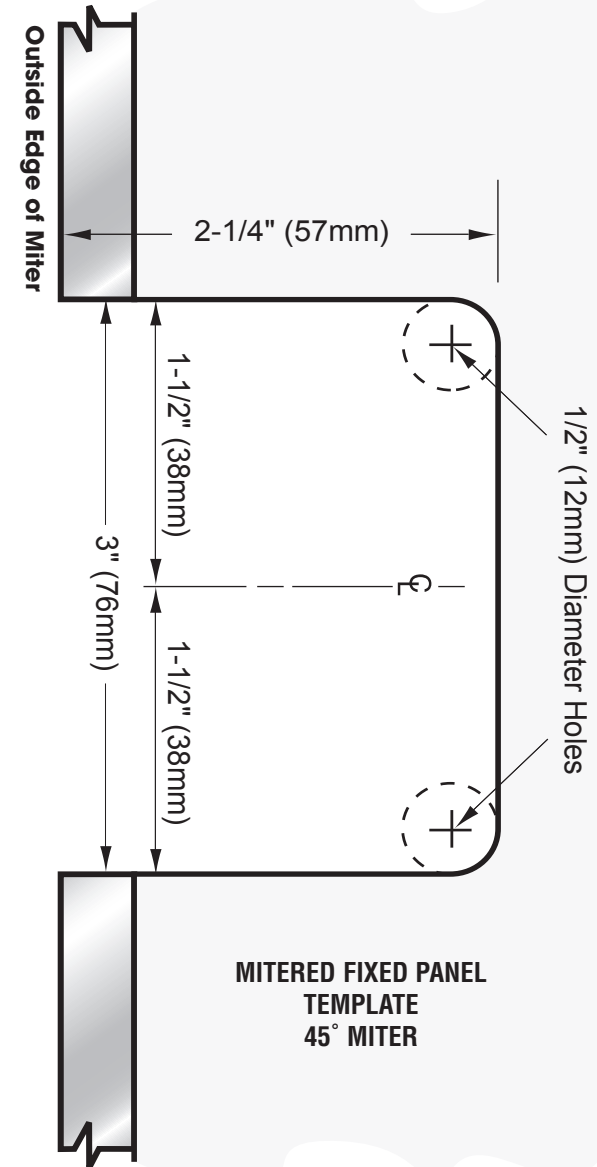
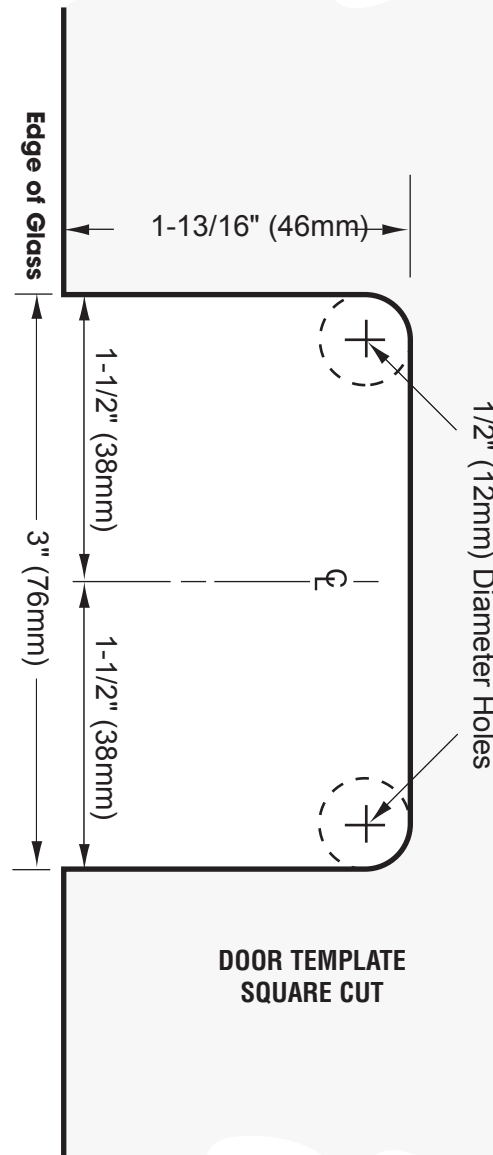


C.R. LAURENCE CO., INC.
PROFESSIONAL QUALITY



IMPORTANT:
Project measurements from
the edge of the glass.

**Rectangular
Cut-out Option**



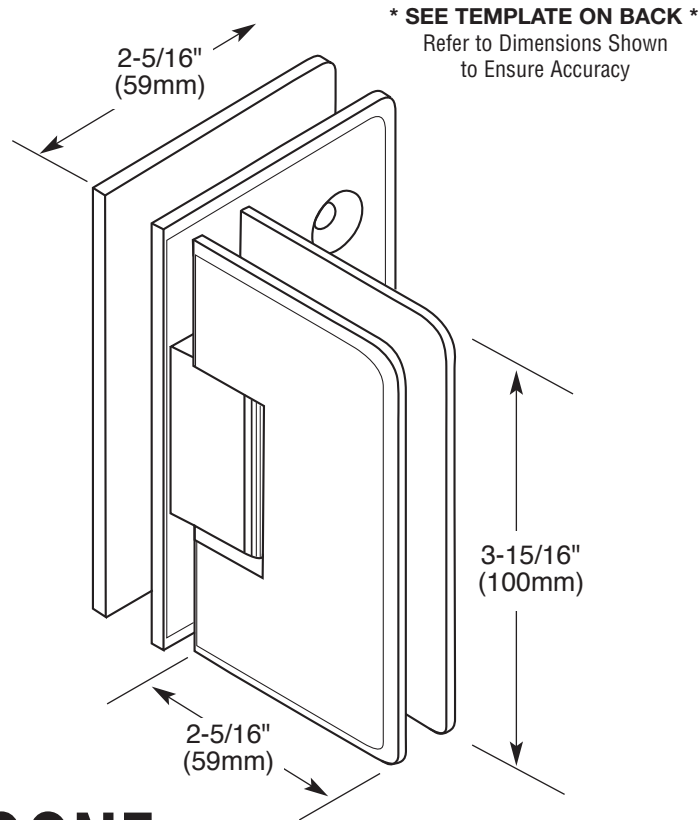
COLOGNE
135° Glass-to-Glass
CAT. No. COL045
Rectangular Cut-Out Option



C.R. Laurence Company has established a Technical Sales Department to assist our customers. If you have any questions concerning shower door hardware or any product from CRL, please contact us at:
(800) 421-6144 in the U.S.,
or (877) 421-6144 from Canada,
and ask for Extension 7740



C.R. LAURENCE CO., INC.
PROFESSIONAL QUALITY



COLOGNE

90° Glass-to-Glass Hinge

CAT. No. COL092

* Maximum Door Capacities	3/8" (10mm) Glass		1/2" (12mm) Glass	
	Weight	Width	Weight	Width
Using 2 Hinges	110 lbs.(50 kg)	36"(914mm)	110 lbs.(50 kg)	36"(914mm)
Using 3 Hinges	140 lbs.(64 kg)	36"(914mm)	140 lbs.(64 kg)	36"(914mm)

***NOTE:** Do not exceed either maximum weight or width when choosing proper quantity of hinges.

Important Information:

- 1) This Hinge contains a dual degree pivot pin. The pivot pin is set for normal door closing position. You have the option of altering the closing position of the door 5 degrees inward by utilizing the opposite side of the pivot pin, which has been pre-machined. Special order custom pivot pins are available (Cat.No. V1EP1N) that can be machined at any angle up to 45 degrees.
- 2) The Cologne Hinge is designed to accommodate two types of cut-outs in the glass. If the two steel pins in the body of the hinge are left in place, the "mouse ear" cut-out option should be used. This application is recommended to prevent slippage. If the two steel pins are removed, the rectangular cut-out option can be utilized.
- 3) The door and fixed panel require different fabrication.

Specifications:

Glass Sizes: 3/8" (10mm) to 1/2" (12mm) thick tempered safety glass
Construction: Solid brass
Closing Type: Self-centering when within 15° of closed position
Cut-out Required
Includes: Gaskets, screws and template

Use of Gaskets:

For 3/8" (10mm) Glass: Use one thick gasket on each side
For 1/2" (12mm) Glass: Use one thin gasket on each side

Recommendations:

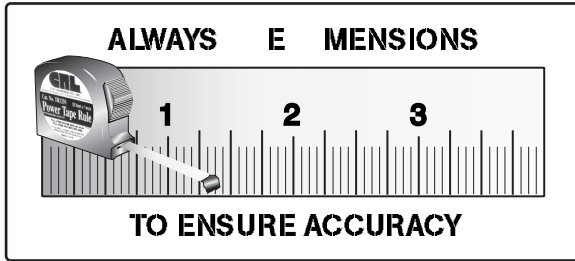
For public safety, we recommend the use of only tempered safety glass. Do not use power tools when installing these hinges.

Maintenance Guidelines:

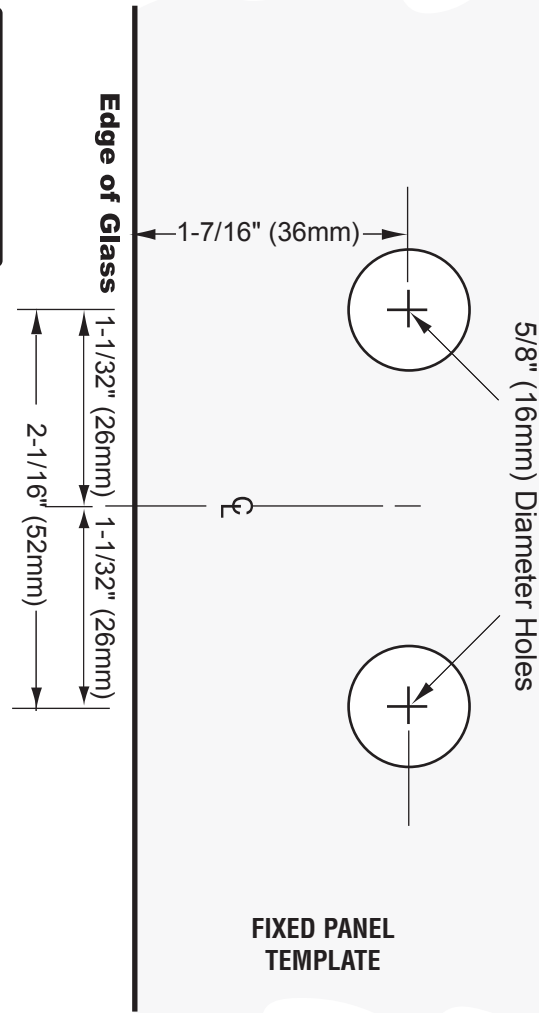
- Our hinges are greased at the factory for quiet and trouble-free operation. If there is any squeaking that occurs after installation, put a drop of "3 in 1 Oil" (also known as "household oil") on the white nylon washer that the hinge body pivots on. This washer is the component that acts as a buffer, so the body of the hinge doesn't pivot directly on the brass center block. This solution doesn't require the disassembly of the hinge.
Note: Do not use spray lubricant on these hinges. If the hinge has been disassembled, upon re-assembly, use white lithium grease to lubricate the interior mechanism.
- Never use an abrasive cleaner on the hardware. Many of the components are coated with a clear lacquer that will be irreparably damaged if subjected to harsh, abrasive chemicals. Advise your customer that drying the hardware with a clean, soft towel on a daily basis is the best way to maintain the hardware. If mineral deposits build-up, mix a couple of drops of a mild liquid soap (such as Ivory or a similar product) into a cup of warm water. Using a soft, non-abrasive cloth, clean the hardware. Rinse thoroughly with clean, warm water and dry.



C.R. LAURENCE CO., INC.
PROFESSIONAL QUALITY

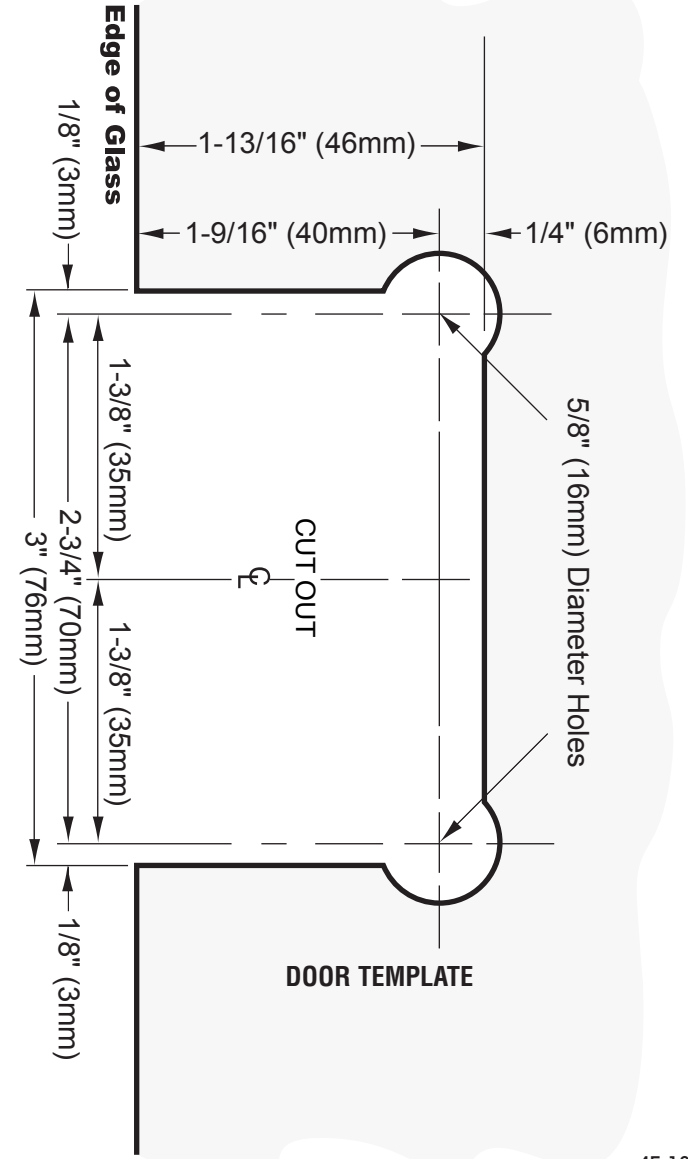


COLOGNE
90° Glass-to-Glass Hinge
CAT. No. **COL092**
"Mouse-Ear" Cut-Out Option



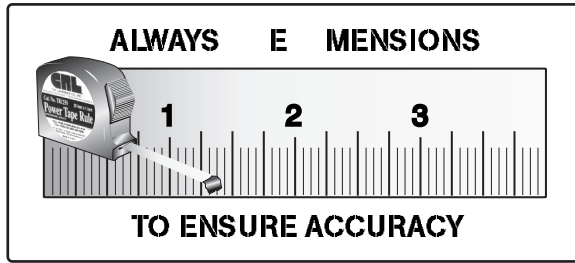
IMPORTANT:
Project measurements from the edge of the glass.

"Mouse-Ear" Cut-out Option



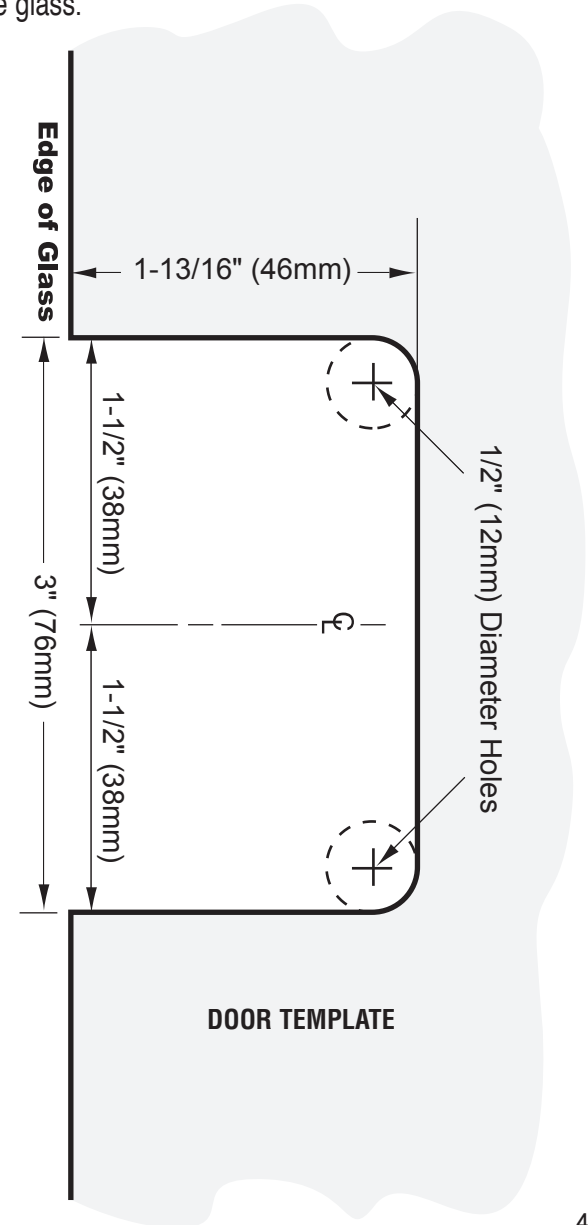
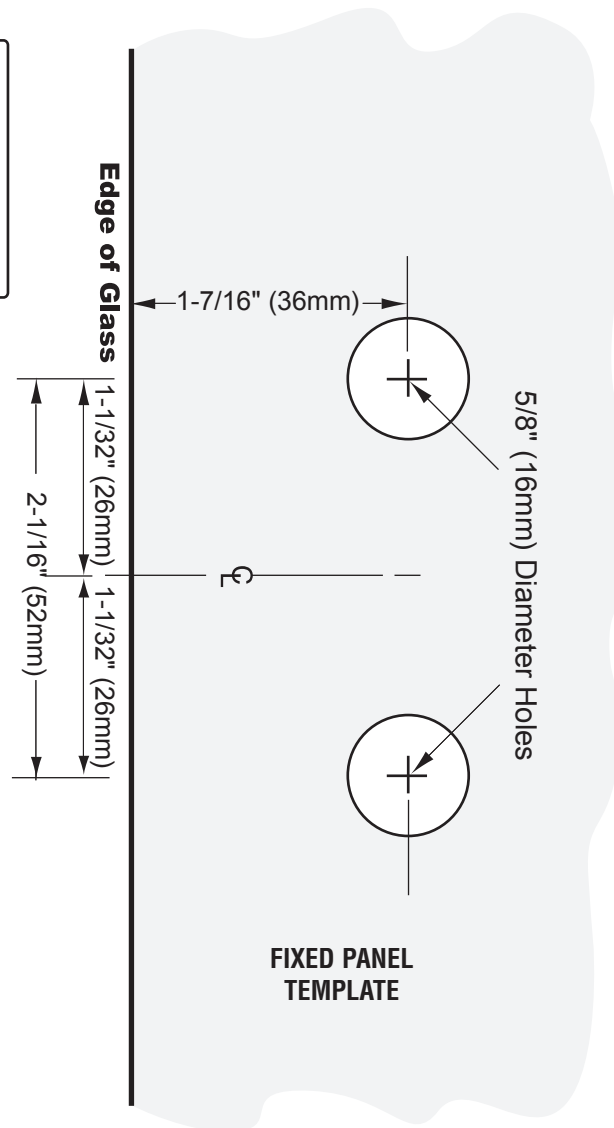


C.R. LAURENCE CO., INC.
 PROFESSIONAL QUALITY



IMPORTANT:
 Project measurements from
 the edge of the glass.

**Rectangular
 Cut-out Option**



COLOGNE
 90° Glass-to-Glass Hinge
 CAT. No. **COL092**
 Rectangular Cut-Out Option

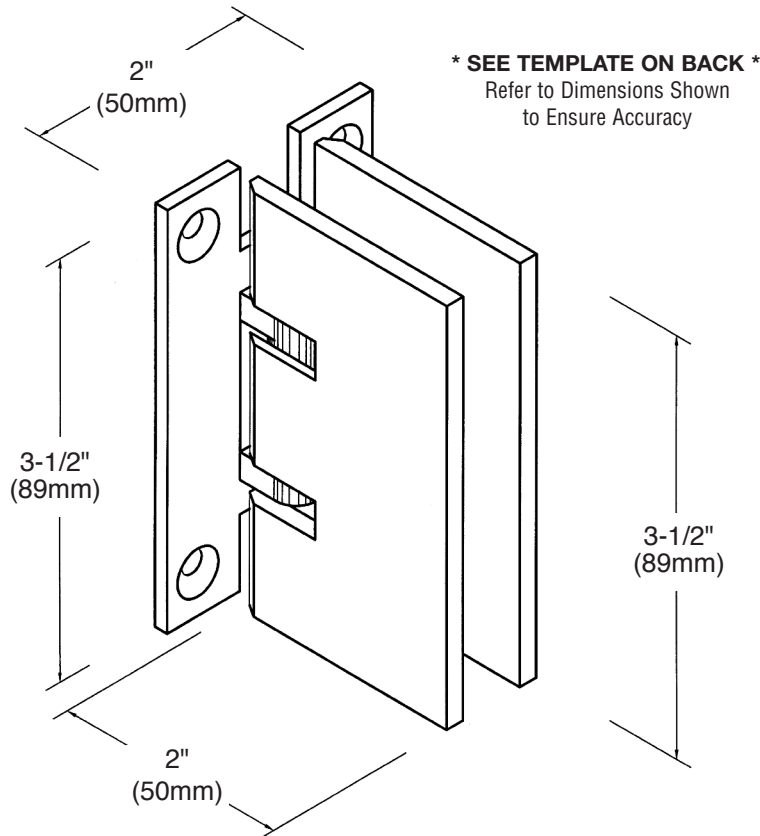


C.R. Laurence Company has established a Technical Sales Department to assist our customers. If you have any questions concerning shower door hardware or any product from CRL, please contact us at:

**(800) 421-6144 in the U.S.,
or (877) 421-6144 from Canada,
and ask for Extension 7740**



C.R. LAURENCE CO., INC.
PROFESSIONAL QUALITY



CONCORD (FORMERLY LALIQUE)

Wall Mount Hinge

Cat. No. SDH037

*Maximum Door Capacities	3/8" (10mm) Glass		1/2" (12mm) Glass	
	Weight	Width	Weight	Width
Using 2 Hinges	80 lbs.(36 kg)	28"(711mm)	80 lbs.(36 kg)	26"(660mm)
Using 3 Hinges	120 lbs.(55 kg)	34"(864mm)	120 lbs.(55 kg)	30"(762mm)

***NOTE:** Do not exceed either maximum weight or width when choosing proper quantity of hinges.

Specifications:

Glass Sizes: 3/8" (10mm) to 1/2" (12mm) thick tempered safety glass

Construction: Solid brass

Closing Type: Self-centering when within 15° of closed position

Cutout Required

Includes: Gaskets, screws and template

Use of Gaskets:

For 3/8"(10mm) Glass: Use one thick gasket on each side

For 1/2"(12mm) Glass: Use one thin gasket on each side

Recommendations:

For public safety, we recommend the use of only tempered safety glass.

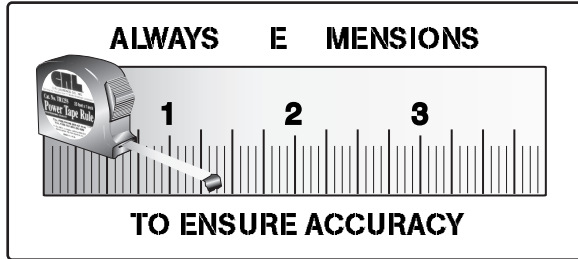
Do not use power tools when installing these hinges.

Maintenance Guidelines:

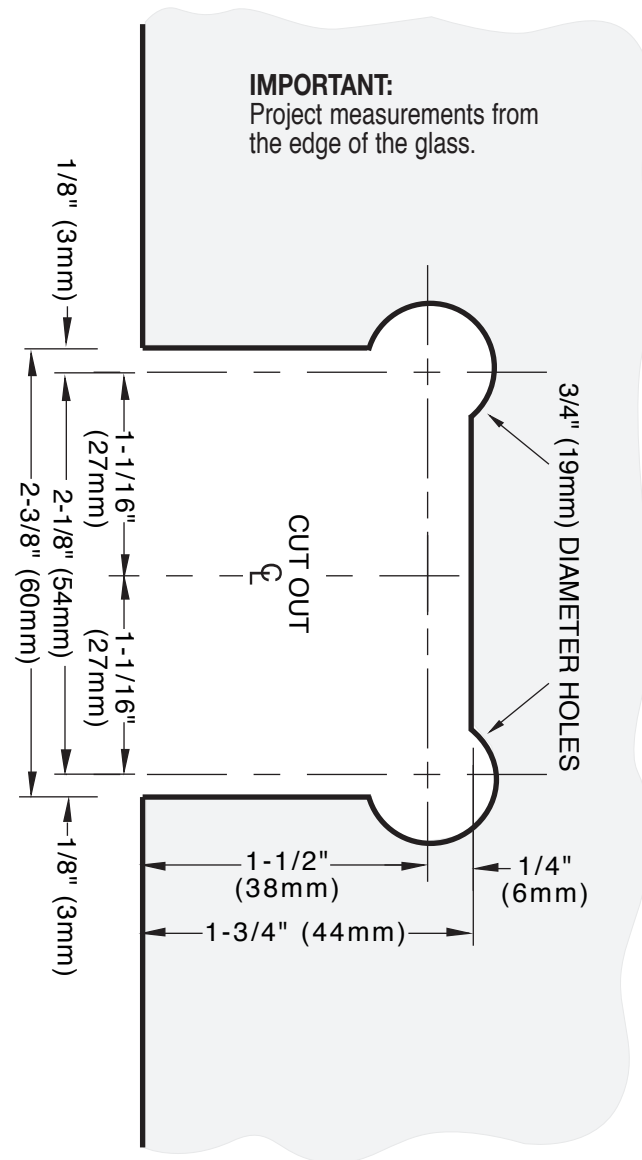
- Never use an abrasive cleaner on the hardware. Many of the components are coated with a clear lacquer that will be irreparably damaged if subjected to harsh, abrasive chemicals. Advise your customer that drying the hardware with a clean, soft towel on a daily basis is the best way to maintain the hardware. If mineral deposits build-up, mix a couple of drops of a mild liquid soap (such as Ivory or a similar product) into a cup of warm water. Using a soft, non-abrasive cloth, clean the hardware. Rinse thoroughly with clean, warm water and dry.



C.R. LAURENCE CO., INC.
PROFESSIONAL QUALITY



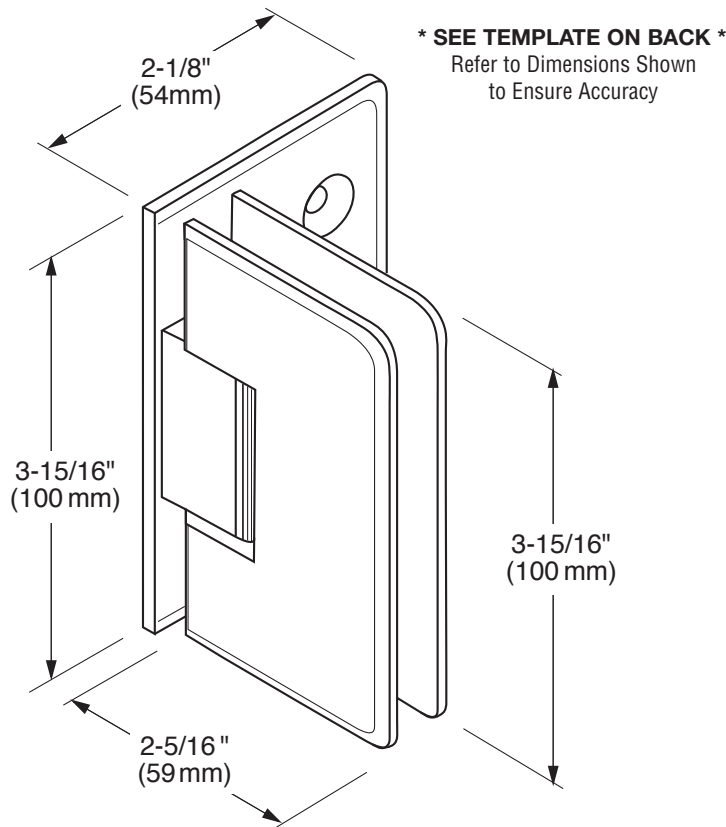
CONCORD (FORMERLY LALIQUE)
 Wall Mount Hinge
 Cat. No. SDH037



C.R. Laurence Co., Inc. For technical assistance in the United States call toll free (800) 421-6144; from Canada call toll free (877) 421-6144;
 crlaurence.com Outside the U.S. and Canada call (323) 588-1281. Ask for Tech Sales at Extension 7740. Toll free fax (800) 458-7496.



C.R. LAURENCE CO., INC.
PROFESSIONAL QUALITY



COLOGNE

Wall Mount Hinge - Offset Back Plate

Cat No. **COL044**

*Maximum Door Capacities	3/8" (10mm) Glass		1/2" (12mm) Glass	
	Weight	Width	Weight	Width
Using 2 Hinges	100 lbs.(45 kg)	34" (864 mm)	100 lbs.(45 kg)	32"(813mm)
Using 3 Hinges	130 lbs.(59 kg)	34" (864 mm)	130 lbs.(54 kg)	32"(813mm)

***NOTE:** Do not exceed either maximum weight or width when choosing proper quantity of hinges.

Important Information:

This hinge contains a dual degree pivot pin. The pivot pin is set for the door to close 5 degrees inwards from the normal closing position. You have the option of altering the closing position of the door 5 degrees (back to normal closing position) by utilizing the opposite side of the pivot pin, which has been pre-machined (see Section 3 of Cat. No. SDT21 Frameless Shower Door Guide for this procedure). Special order custom pivot pins are available (Cat. No. V1EP1N) that can be machined at any angle up to 45 degrees.

Specifications:

- Glass Sizes:** 3/8" (10mm) to 1/2" (12mm) thick tempered safety glass
- Construction:** Solid brass
- Closing Type:** Self-centering when within 15° of closed position
- Cutout Required**
- Includes:** Gaskets, screws and template

Use of Gaskets:

- For 3/8"(10mm) Glass:** Use one thick gasket on each side
- For 1/2"(12mm) Glass:** Use one thin gasket on each side

Recommendations:

For public safety, we recommend the use of only tempered safety glass. Do not use power tools when installing these hinges.

Maintenance Guidelines:

- Our hinges are greased at the factory for quiet and trouble-free operation. If there is any squeaking that occurs after installation, put a drop of "3 in 1 Oil" (also known as "household oil") on the white nylon washer that the hinge body pivots on. This washer is the component that acts as a buffer, so the body of the hinge doesn't pivot directly on the brass center block. This solution doesn't require the disassembly of the hinge.
Note: Do not use spray lubricant on these hinges. If the hinge has been disassembled, upon re-assembly, use white lithium grease to lubricate the interior mechanism.
- Never use an abrasive cleaner on the hardware. Many of the components are coated with a clear lacquer that will be irreparably damaged if subjected to harsh, abrasive chemicals. Advise your customer that drying the hardware with a clean, soft towel on a daily basis is the best way to maintain the hardware. If mineral deposits build-up, mix a couple of drops of a mild liquid soap (such as Ivory or a similar product) into a cup of warm water. Using a soft, non-abrasive cloth, clean the hardware. Rinse thoroughly with clean, warm water and dry.

4E-21A

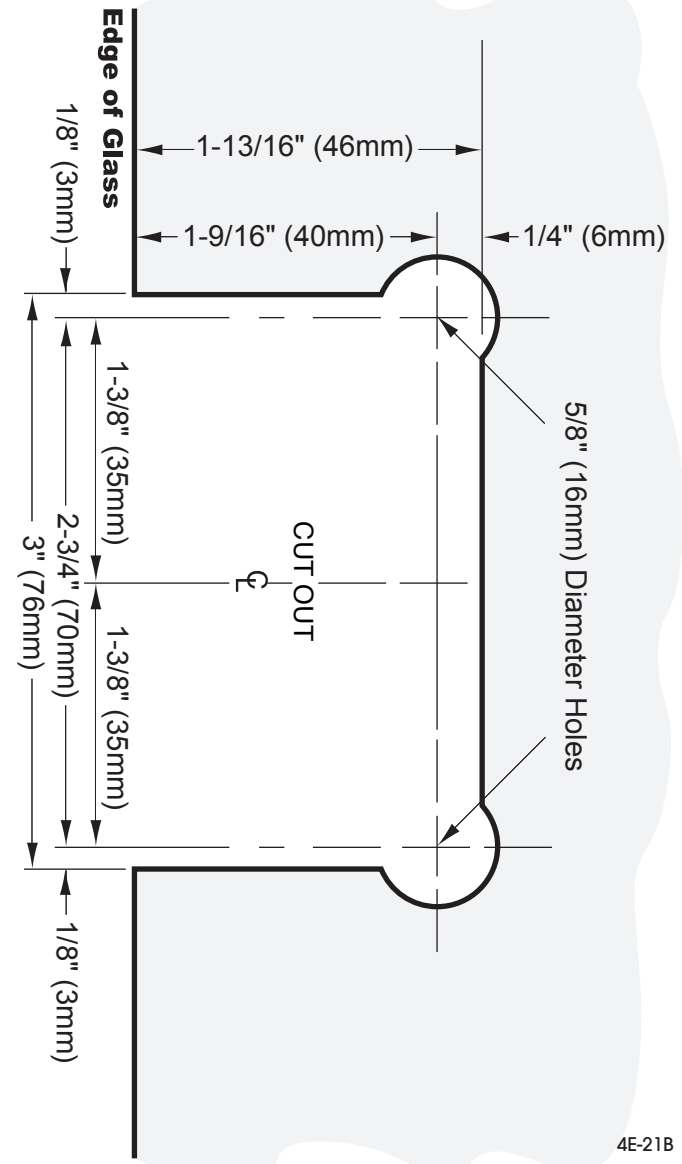
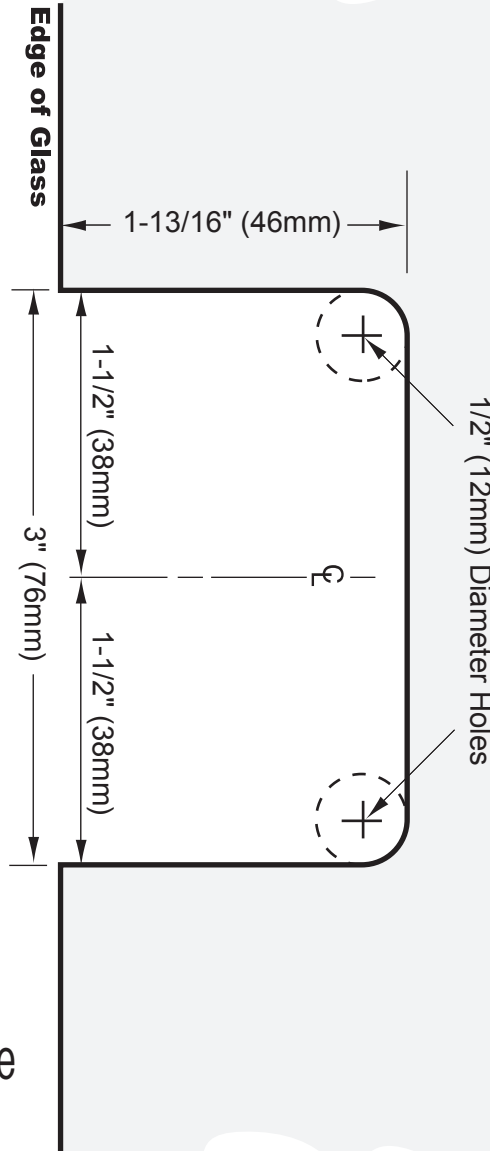
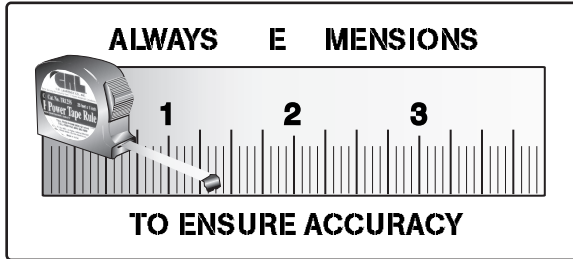


C.R. LAURENCE CO., INC.
PROFESSIONAL QUALITY

**Rectangular
Cut-out Option**

IMPORTANT:
Project measurements from
the edge of the glass.

**"Mouse-Ear"
Cut-out Option**



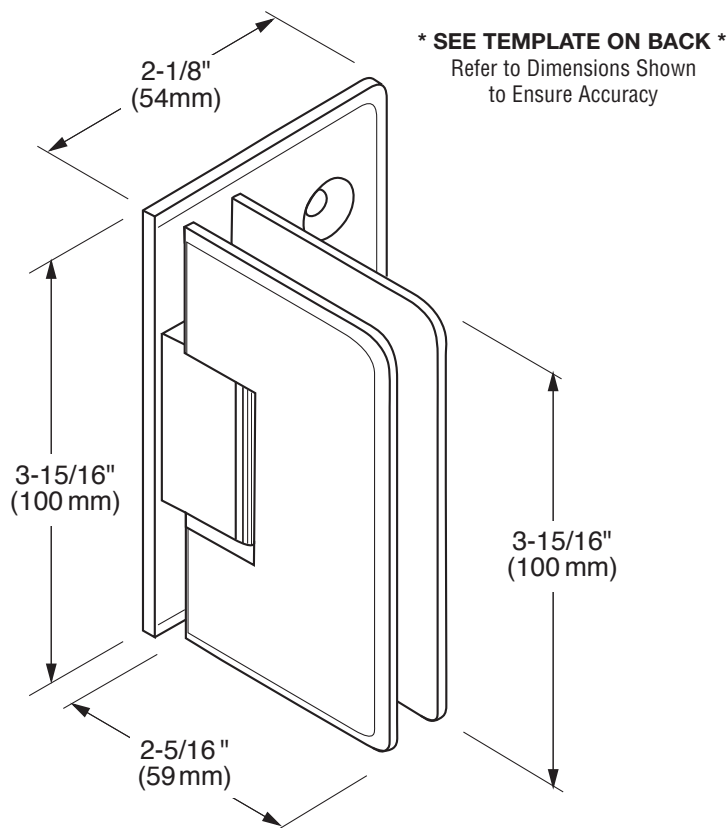
COLOGNE

Wall Mount Hinge - Offset Back Plate
CAT. No. COL044

C.R. Laurence Co., Inc. For technical assistance in the United States call toll free (800) 421-6144; from Canada call toll free (877) 421-6144;
crlaurence.com Outside the U.S. and Canada call (323) 588-1281. Ask for Tech Sales at Extension 7740. Toll free fax (800) 458-7496.



C.R. LAURENCE CO., INC.
PROFESSIONAL QUALITY



COLOGNE

Wall Mount Hinge - Offset Back Plate

Cat No. **COL544** (5° Preset Pivot Pin)

* Maximum Door Capacities	3/8" (10mm) Glass		1/2" (12mm) Glass	
	Weight	Width	Weight	Width
Using 2 Hinges	100 lbs.(45 kg)	34" (864 mm)	100 lbs.(45 kg)	32"(813mm)
Using 3 Hinges	130 lbs.(59 kg)	34" (864 mm)	130 lbs.(59 kg)	32"(813mm)

***NOTE:** Do not exceed either maximum weight or width when choosing proper quantity of hinges.

Important Information:

This hinge contains a dual degree pivot pin. The pivot pin is set for the door to close 5 degrees inwards from the normal closing position. You have the option of altering the closing position of the door 5 degrees (back to normal closing position) by utilizing the opposite side of the pivot pin, which has been pre-machined (see Section 3 of Cat. No. SDT21 Frameless Shower Door Guide for this procedure). Special order custom pivot pins are available (Cat. No. V1EP1N) that can be machined at any angle up to 45 degrees.

Specifications:

Glass Sizes: 3/8" (10mm) to 1/2" (12mm) thick tempered safety glass
Construction: Solid brass
Closing Type: Self-centering when within 15° of closed position
Cutout Required
Includes: Gaskets, screws and template

Use of Gaskets:

For 3/8"(10mm) Glass: Use one thick gasket on each side
For 1/2"(12mm) Glass: Use one thin gasket on each side

Recommendations:

For public safety, we recommend the use of only tempered safety glass. Do not use power tools when installing these hinges.

Maintenance Guidelines:

- Our hinges are greased at the factory for quiet and trouble-free operation. If there is any squeaking that occurs after installation, put a drop of "3 in 1 Oil" (also known as "household oil") on the white nylon washer that the hinge body pivots on. This washer is the component that acts as a buffer, so the body of the hinge doesn't pivot directly on the brass center block. This solution doesn't require the disassembly of the hinge.
Note: Do not use spray lubricant on these hinges. If the hinge has been disassembled, upon re-assembly, use white lithium grease to lubricate the interior mechanism.
- Never use an abrasive cleaner on the hardware. Many of the components are coated with a clear lacquer that will be irreparably damaged if subjected to harsh, abrasive chemicals. Advise your customer that drying the hardware with a clean, soft towel on a daily basis is the best way to maintain the hardware. If mineral deposits build-up, mix a couple of drops of a mild liquid soap (such as Ivory or a similar product) into a cup of warm water. Using a soft, non-abrasive cloth, clean the hardware. Rinse thoroughly with clean, warm water and dry.

4E-21C

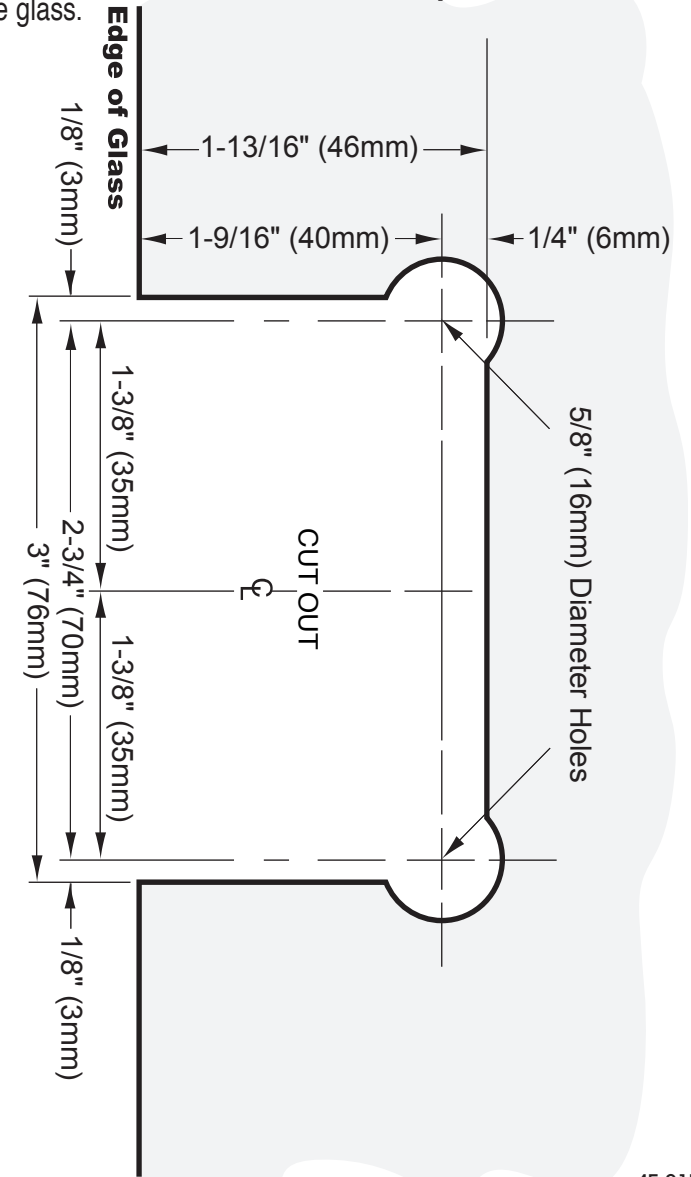
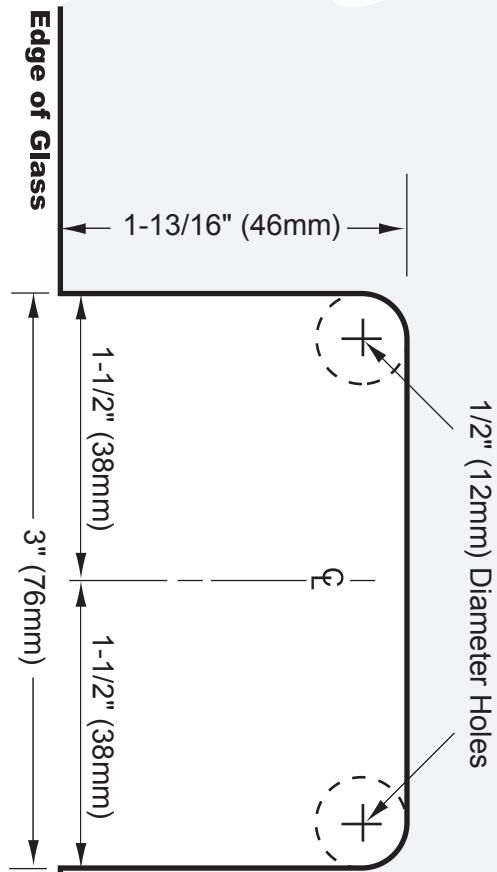
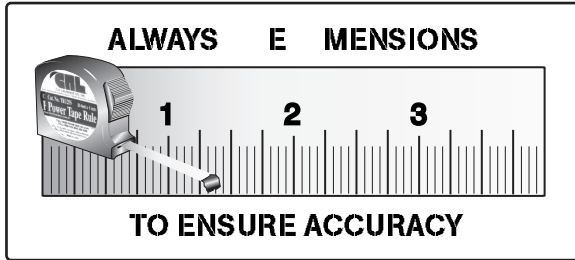


C.R. LAURENCE CO., INC.
PROFESSIONAL QUALITY

**Rectangular
Cut-out Option**

IMPORTANT:
Project measurements from
the edge of the glass.

**"Mouse-Ear"
Cut-out Option**



COLOGNE

Wall Mount Hinge
Offset Back Plate

CAT. No. COL544 (5° Preset Pivot Pin)

4E-21D

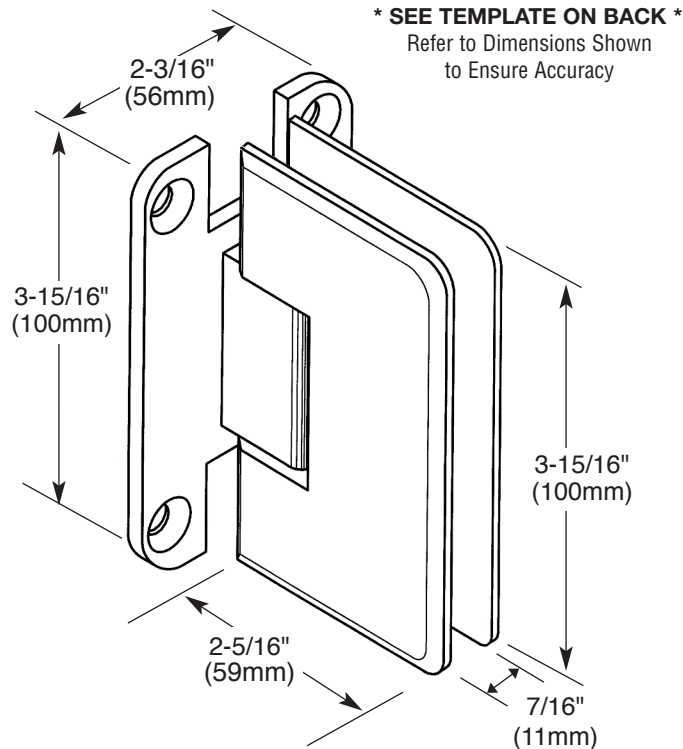
C.R. Laurence Co., Inc.
crlaurence.com

For technical assistance in the United States call toll free (800) 421-6144; from Canada call toll free (877) 421-6144; Outside the U.S. and Canada call (323) 588-1281. Ask for Tech Sales at Extension 7740. Toll free fax (800) 458-7496.

© Copyright 2005, C.R. Laurence Co., Inc._SDT21_US



C.R. LAURENCE CO., INC.
PROFESSIONAL QUALITY



Important Information:

- 1) This Hinge adjusts to accommodate a desired door angle up to 90° after the door is installed. This is achieved by loosening the two Allen set screws (located in the center block), moving the door to the desired position, and tightening the set screws. The self-centering position has now been changed to the angle you desire.
- 2) The Cologne Hinge is designed to accommodate two types of cut-outs in the glass. If the two steel pins in the body of the Hinge are left in place, the "mouse ear" cut-out option should be used. This application is recommended to prevent slippage. If the two steel pins are removed, the rectangular cut-out option can be utilized.

Specifications:

Glass Sizes: 3/8" (10mm) to 1/2" (12mm) thick tempered safety glass
Construction: Solid brass
Closing Type: Self-centering when within 15° of closed position
Cut-out Required
Includes: Gaskets, screws and template

Use of Gaskets:

For 3/8" (10mm) Glass: Use one thick gasket on each side
For 1/2" (12mm) Glass: Use one thin gasket on each side

Recommendations:

For public safety, we recommend the use of only tempered safety glass.
 Do not use power tools when installing these hinges.

Maintenance Guidelines:

- Our hinges are greased at the factory for quiet and trouble-free operation. If there is any squeaking that occurs after installation, put a drop of "3 in 1 Oil" (also known as "household oil") on the white nylon washer that the hinge body pivots on. This washer is the component that acts as a buffer, so the body of the hinge doesn't pivot directly on the brass center block. This solution doesn't require the disassembly of the hinge.
Note: Do not use spray lubricant on these hinges. If the hinge has been disassembled, upon re-assembly, use white lithium grease to lubricate the interior mechanism.
- Never use an abrasive cleaner on the hardware. Many of the components are coated with a clear lacquer that will be irreparably damaged if subjected to harsh, abrasive chemicals. Advise your customer that drying the hardware with a clean, soft towel on a daily basis is the best way to maintain the hardware. If mineral deposits build-up, mix a couple of drops of a mild liquid soap (such as Ivory or a similar product) into a cup of warm water. Using a soft, non-abrasive cloth, clean the hardware. Rinse thoroughly with clean, warm water and dry.

COLOGNE

Wall Mount Hinge - Full Back Plate (Adjustable)

CAT. No. COL337

*Maximum Door Capacities	3/8" (10mm) Glass		1/2" (12mm) Glass	
	Weight	Width	Weight	Width
Using 2 Hinges	110 lbs.(50 kg)	36"(914mm)	110 lbs.(50 kg)	36"(914mm)
Using 3 Hinges	140 lbs.(64 kg)	36"(914mm)	140 lbs.(64 kg)	36"(914mm)

*NOTE: Do not exceed either maximum weight or width when choosing proper quantity of hinges.

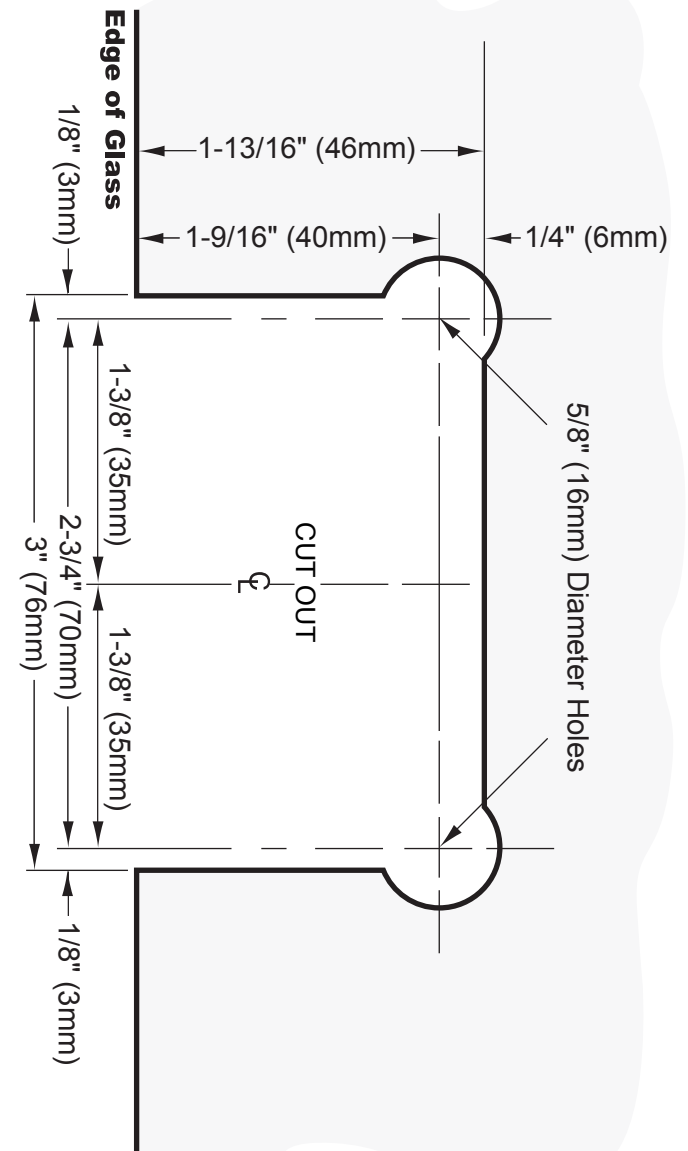
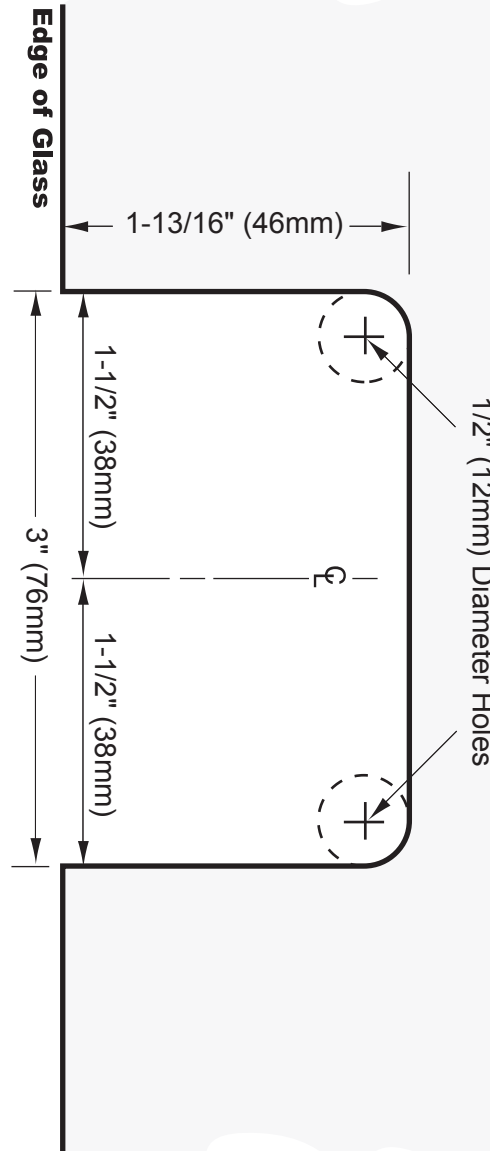
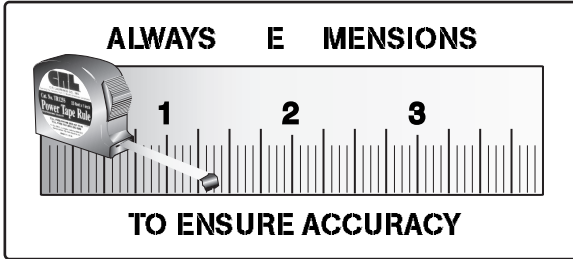


C.R. LAURENCE CO., INC.
PROFESSIONAL QUALITY

**Rectangular
Cut-out Option**

IMPORTANT:
Project measurements from
the edge of the glass.

**"Mouse-Ear"
Cut-out Option**



COLOGNE

Wall Mount Hinge - Full Back Plate
(Adjustable)

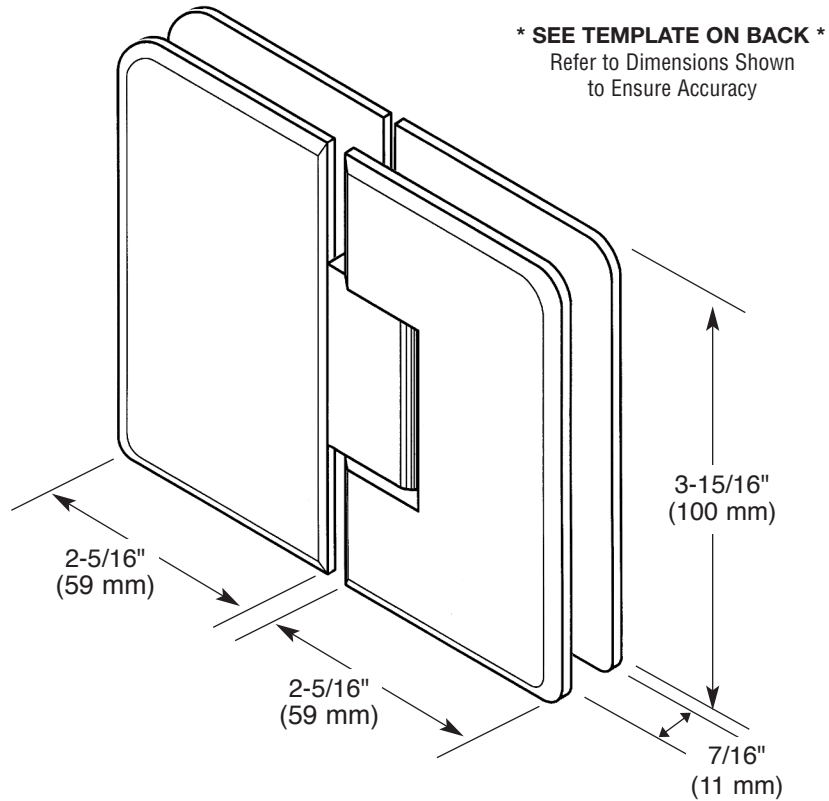
CAT. No. COL337

C.R. Laurence Co., Inc.
crlaurence.com

For technical assistance in the United States call toll free (800) 421-6144; from Canada call toll free (877) 421-6144; Outside the U.S. and Canada call (323) 588-1281. Ask for Tech Sales at Extension 7740. Toll free fax (800) 458-7496.



C.R. LAURENCE CO., INC.
PROFESSIONAL QUALITY



Important Information:

- 1) This Hinge adjusts to accommodate a desired door angle up to 90° after the door is installed. This is achieved by loosening the two Allen set screws (located in the center block), moving the door to the desired position, and tightening the set screws. The self-centering position has now been changed to the angle you desire.
- 2) The Cologne Hinge is designed to accommodate two types of cut-outs in the glass. If the two steel pins in the body of the Hinge are left in place, the "mouse ear" cut-out option should be used. This application is recommended to prevent slippage. If the two steel pins are removed, the rectangular cut-out option can be utilized.

Specifications:

Glass Sizes: 3/8" (10mm) to 1/2" (12mm) thick tempered safety glass
Construction: Solid brass
Closing Type: Self-centering when within 15° of closed position
Cut-out Required
Includes: Gaskets, screws and template

Use of Gaskets:

For 3/8" (10mm) Glass: Use one thick gasket on each side
For 1/2" (12mm) Glass: Use one thin gasket on each side

Recommendations:

For public safety, we recommend the use of only tempered safety glass.
 Do not use power tools when installing these hinges.

Maintenance Guidelines:

- Our hinges are greased at the factory for quiet and trouble-free operation. If there is any squeaking that occurs after installation, put a drop of "3 in 1 Oil" (also known as "household oil") on the white nylon washer that the hinge body pivots on. This washer is the component that acts as a buffer, so the body of the hinge doesn't pivot directly on the brass center block. This solution doesn't require the disassembly of the hinge.
Note: Do not use spray lubricant on these hinges. If the hinge has been disassembled, upon re-assembly, use white lithium grease to lubricate the interior mechanism.
- Never use an abrasive cleaner on the hardware. Many of the components are coated with a clear lacquer that will be irreparably damaged if subjected to harsh, abrasive chemicals. Advise your customer that drying the hardware with a clean, soft towel on a daily basis is the best way to maintain the hardware. If mineral deposits build-up, mix a couple of drops of a mild liquid soap (such as Ivory or a similar product) into a cup of warm water. Using a soft, non-abrasive cloth, clean the hardware. Rinse thoroughly with clean, warm water and dry.

COLOGNE

180° Glass-to-Glass Hinge (Adjustable)

CAT. No. COL380

*Maximum Door Capacities	3/8" (10mm) Glass		1/2" (12mm) Glass	
	Weight	Width	Weight	Width
Using 2 Hinges	110 lbs.(50 kg)	36"(914mm)	110 lbs.(50 kg)	36"(914mm)
Using 3 Hinges	140 lbs.(64 kg)	36"(914mm)	140 lbs.(64 kg)	36"(914mm)

*NOTE: Do not exceed either maximum weight or width when choosing proper quantity of hinges.

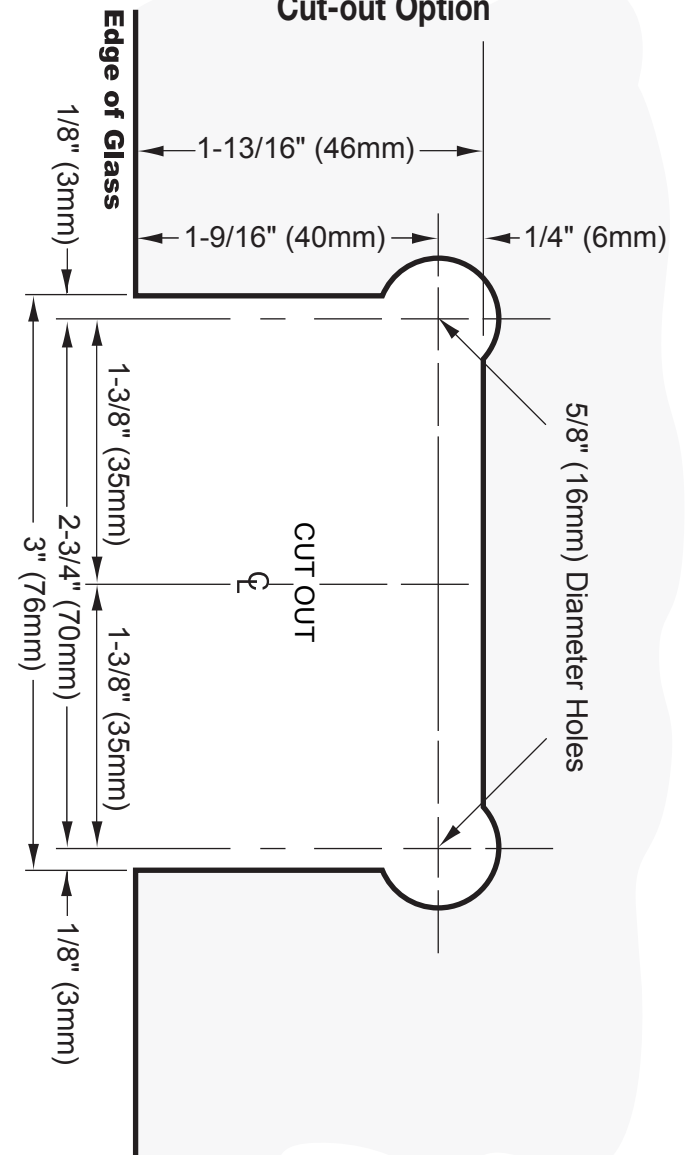
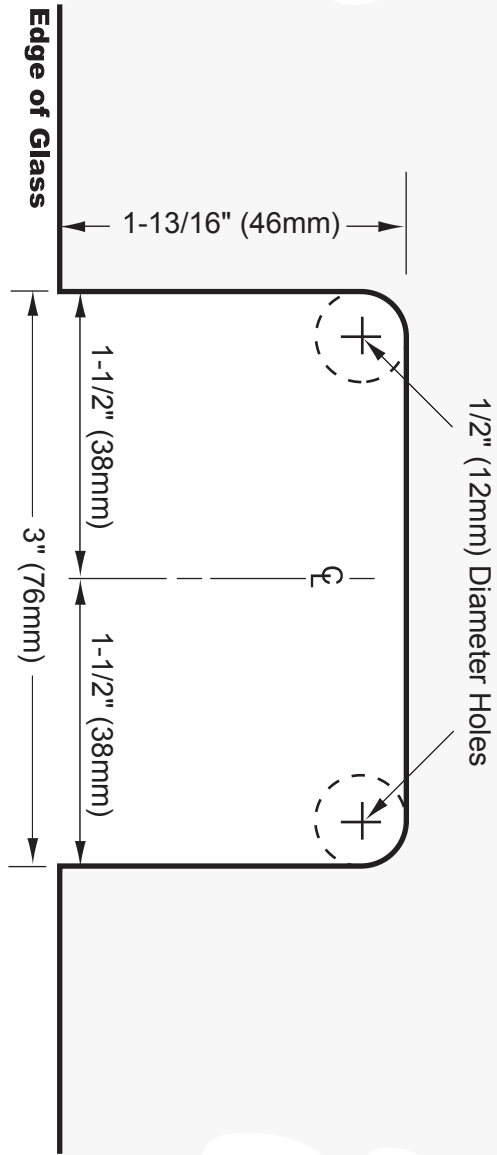
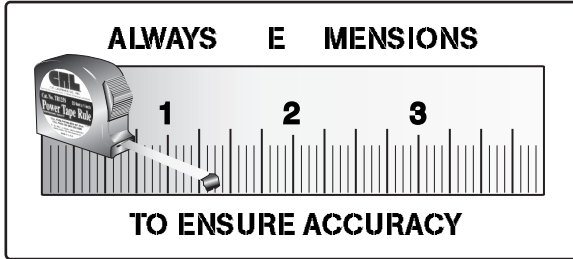


C.R. LAURENCE CO., INC.
PROFESSIONAL QUALITY

**Rectangular
Cut-out Option**

IMPORTANT:
Project measurements from
the edge of the glass.

**"Mouse-Ear"
Cut-out Option**



COLOGNE

180° Glass-to-Glass Hinge
(Adjustable)

CAT. No. COL380

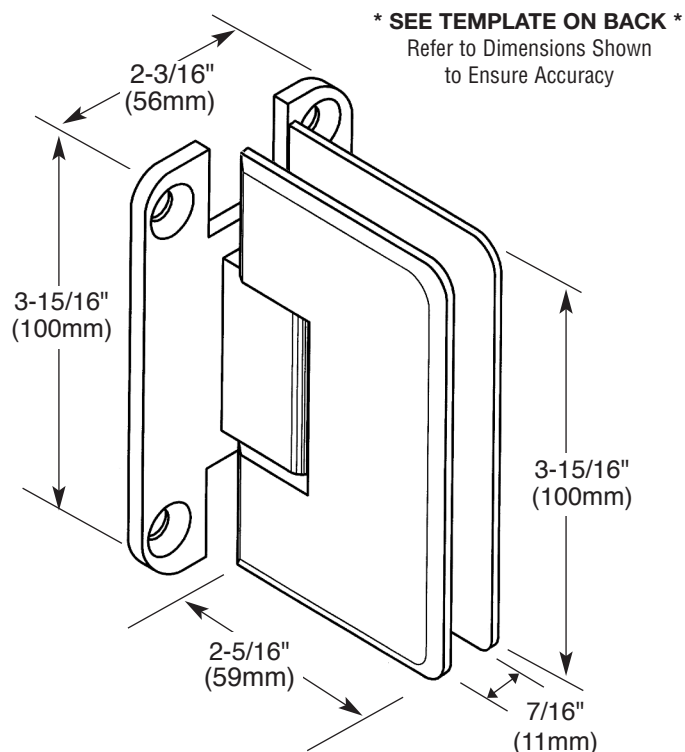
4E-21H

C.R. Laurence Co., Inc. For technical assistance in the United States call toll free (800) 421-6144; from Canada call toll free (877) 421-6144; Outside the U.S. and Canada call (323) 588-1281. Ask for Tech Sales at Extension 7740. Toll free fax (800) 458-7496.

© Copyright 2009, C.R. Laurence Co., Inc_SDT21_US



C.R. LAURENCE CO., INC.
PROFESSIONAL QUALITY



Important Information:

1) This hinge contains a dual degree pivot pin. The pivot pin is set for the door to close 5 degrees inward from the normal closing position. You have the option of altering the closing position of the door 5 degrees (back to normal closing position) by utilizing the opposite side of the pivot pin, which has been pre-machined (see Section 3 of Cat. No. SDT21 Frameless Shower Door Guide for this procedure). Special order custom pivot pins are available (Cat.No. VIEP1N) that can be machined at any angle up to 45 degrees.

2) The Cologne Hinge is designed to accommodate two types of cut-outs in the glass. If the two steel pins in the body of the Hinge are left in place, the "mouse ear" cut-out option should be used. This application is recommended to prevent slippage. If the two steel pins are removed, the rectangular cut-out option can be utilized.

Specifications:

Glass Sizes: 3/8" (10mm) to 1/2" (12mm) thick tempered safety glass

Construction: Solid brass

Closing Type: Self-centering when within 15° of closed position

Cut-out Required

Includes: Gaskets, screws and template

Use of Gaskets:

For 3/8" (10mm) Glass: Use one thick gasket on each side

For 1/2" (12mm) Glass: Use one thin gasket on each side

Recommendations:

For public safety, we recommend the use of only tempered safety glass.
 Do not use power tools when installing these hinges.

Maintenance Guidelines:

- Our hinges are greased at the factory for quiet and trouble-free operation. If there is any squeaking that occurs after installation, put a drop of "3 in 1 Oil" (also known as "household oil") on the white nylon washer that the hinge body pivots on. This washer is the component that acts as a buffer, so the body of the hinge doesn't pivot directly on the brass center block. This solution doesn't require the disassembly of the hinge.

Note: Do not use spray lubricant on these hinges. If the hinge has been disassembled, upon re-assembly, use white lithium grease to lubricate the interior mechanism.

- Never use an abrasive cleaner on the hardware. Many of the components are coated with a clear lacquer that will be irreparably damaged if subjected to harsh, abrasive chemicals. Advise your customer that drying the hardware with a clean, soft towel on a daily basis is the best way to maintain the hardware. If mineral deposits build-up, mix a couple of drops of a mild liquid soap (such as Ivory or a similar product) into a cup of warm water. Using a soft, non-abrasive cloth, clean the hardware. Rinse thoroughly with clean, warm water and dry.

COLOGNE

Wall Mount Hinge (5° Offset)

CAT. No. COL537

*Maximum Door Capacities	3/8" (10mm) Glass		1/2" (12mm) Glass	
	Weight	Width	Weight	Width
Using 2 Hinges	110 lbs.(50 kg)	36"(914mm)	110 lbs.(50 kg)	36"(914mm)
Using 3 Hinges	140 lbs.(64 kg)	36"(914mm)	140 lbs.(64 kg)	36"(914mm)

*NOTE: Do not exceed either maximum weight or width when choosing proper quantity of hinges.

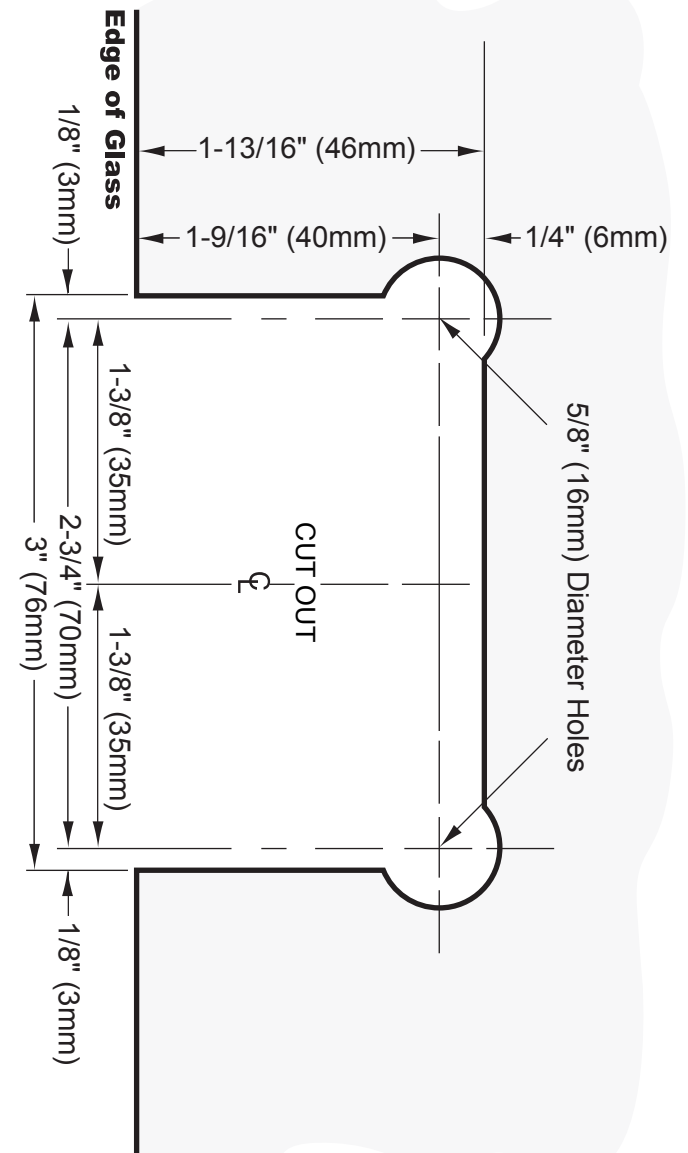
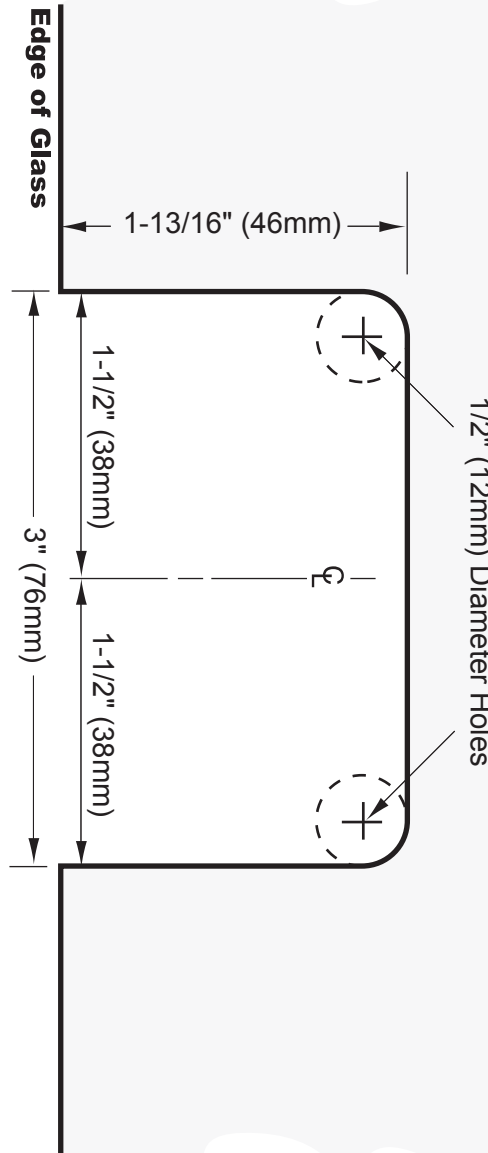
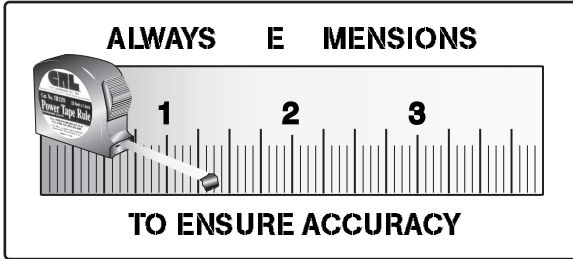


C.R. LAURENCE CO., INC.
PROFESSIONAL QUALITY

**Rectangular
Cut-out Option**

IMPORTANT:
Project measurements from
the edge of the glass.

**"Mouse-Ear"
Cut-out Option**



COLOGNE

Wall Mount Hinge (5° Offset)

CAT. No. COL537

C.R. Laurence Co., Inc.
crlaurence.com

For technical assistance in the United States call toll free (800) 421-6144; from Canada call toll free (877) 421-6144; Outside the U.S. and Canada call (323) 588-1281. Ask for Tech Sales at Extension 7740. Toll free fax (800) 458-7496.



C.R. LAURENCE CO., INC.
PROFESSIONAL QUALITY

Specifications:

Glass Sizes: 5/16" (8mm) to 3/8" (10mm) thick tempered safety glass

Construction: Stainless steel

Closing Type: Free-swinging

Two Holes Required (No Cutout)

Includes: Gaskets, screws and template

Use of Gaskets:

For 5/16" (8mm) Glass: Use one gasket on each side

For 3/8" (10mm) Glass: Use one gasket on each side

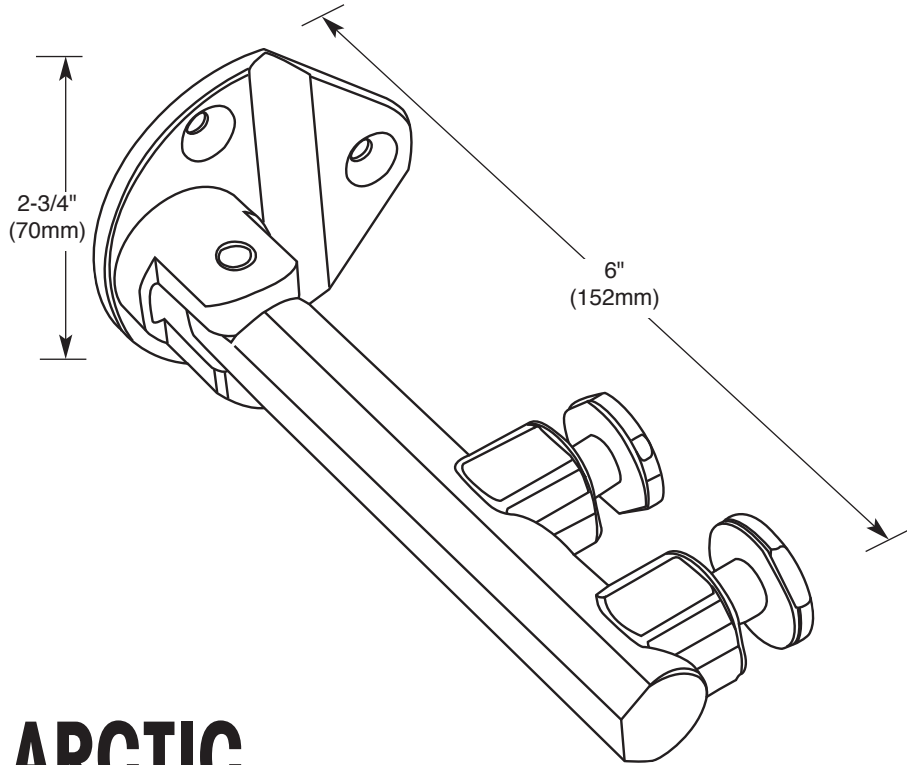
Recommendations:

For public safety, we recommend the use of only tempered safety glass.

Do not use power tools when installing these hinges.

Maintenance Guidelines:

- Never use an abrasive cleaner on the hardware. Many of the components are coated with a clear lacquer that will be irreparably damaged if subjected to harsh, abrasive chemicals. Advise your customer that drying the hardware with a clean, soft towel on a daily basis is the best way to maintain the hardware. If mineral deposits build-up, mix a couple of drops of a mild liquid soap (such as Ivory or a similar product) into a cup of warm water. Using a soft, non-abrasive cloth, clean the hardware. Rinse thoroughly with clean, warm water and dry.



ARCTIC

Wall Mount Outswing Hinge

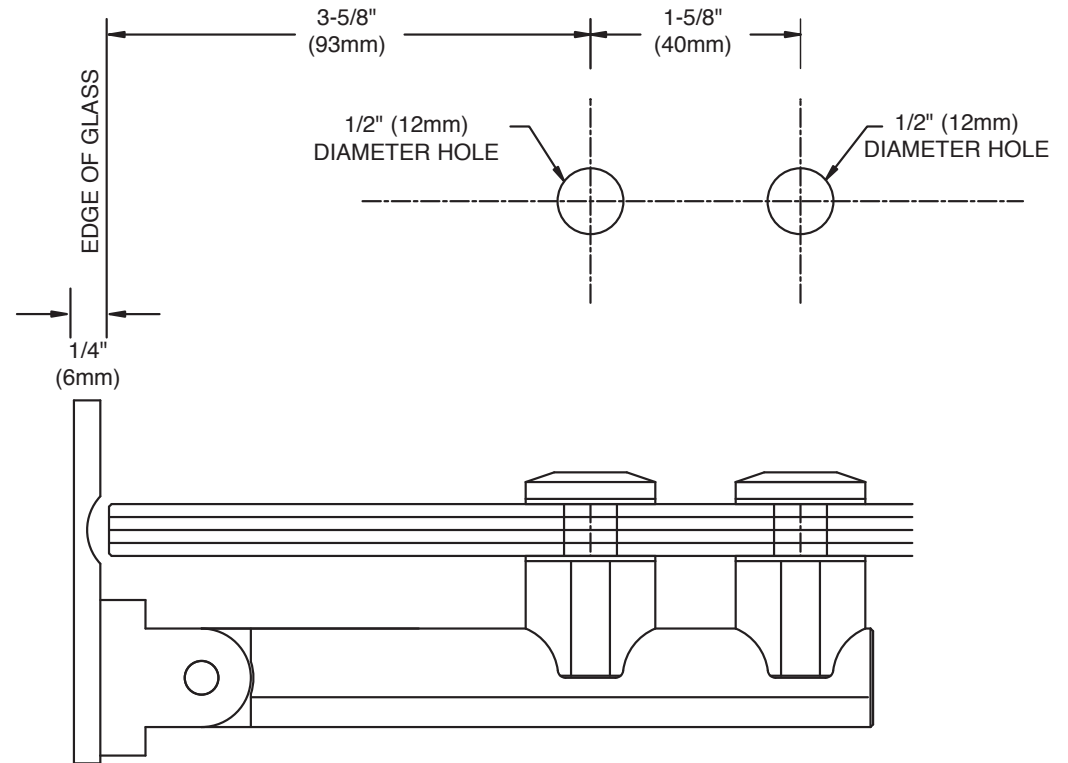
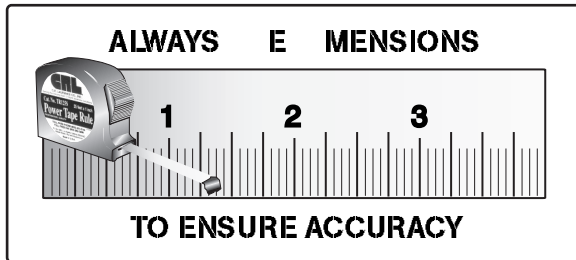
CAT. No. ARC044

*Maximum Door Capacities	5/16" (8mm) Glass		3/8" (10mm) Glass	
	Weight	Width	Weight	Width
Using 2 Hinges	90 lbs.(40 kg)	36"(914mm)	90 lbs.(40 kg)	36"(914mm)
Using 3 Hinges	135 lbs.(61 kg)	36"(914mm)	135 lbs.(61 kg)	36"(914mm)

*NOTE: Do not exceed either maximum weight or width when choosing proper quantity of hinges.



C.R. LAURENCE CO., INC.
PROFESSIONAL QUALITY



Important Information:

Changing the angle alters the location of the holes to be drilled in the glass!
Before fabrication the glass to any other angle than what's shown, consult with C.R. Laurence's Technical Sales Department:
In the United States call (800) 421-6144; from Canada call (877) 421-6144;
Outside the U.S. and Canada call (323) 588-1281. Ask for extension 7740.

ARCTIC

Wall Mount Outswing Hinge

CAT No. ARC044

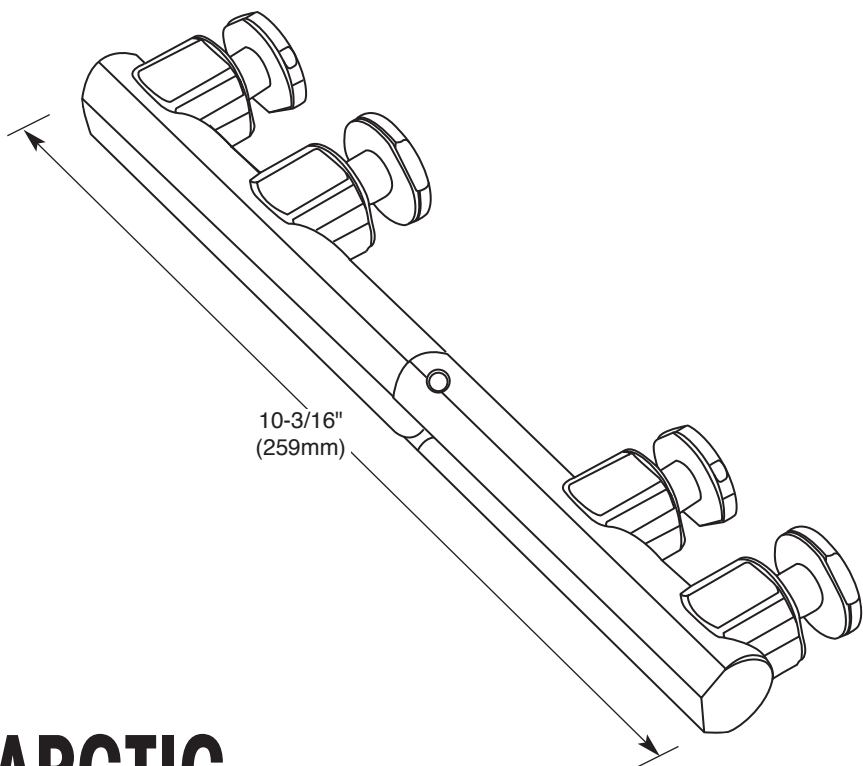
4E-22

C.R. Laurence Co., Inc. For technical assistance in the United States call toll free (800) 421-6144; from Canada call toll free (877) 421-6144;
crlaurence.com Outside the U.S. and Canada call (323) 588-1281. Ask for Tech Sales at Extension 7740. Toll free fax (800) 458-7496.

© Copyright 2005, C.R. Laurence Co., Inc_SDT21_US



C.R. LAURENCE CO., INC.
PROFESSIONAL QUALITY



ARCTIC

180° Glass-to-Glass Outswing Hinge

CAT. No. ARC180

*Maximum Door Capacities	5/16" (8mm) Glass		3/8" (10mm) Glass	
	Weight	Width	Weight	Width
Using 2 Hinges	90 lbs.(40 kg)	36"(914mm)	90 lbs.(40 kg)	36"(914mm)
Using 3 Hinges	135 lbs.(61 kg)	36"(914mm)	135 lbs.(61 kg)	36"(914mm)

*NOTE: Do not exceed either maximum weight or width when choosing proper quantity of hinges.

Specifications:

Glass Sizes: 5/16" (8mm) to 3/8" (10mm) thick tempered safety glass

Construction: Stainless steel

Closing Type: Free-swinging

Two Holes Required (No Cutout)

Includes: Gaskets, screws and template

Use of Gaskets:

For 5/16" (8mm) Glass: Use one gasket on each side

For 3/8" (10mm) Glass: Use one gasket on each side

Recommendations:

For public safety, we recommend the use of only tempered safety glass.

Do not use power tools when installing these hinges.

Maintenance Guidelines:

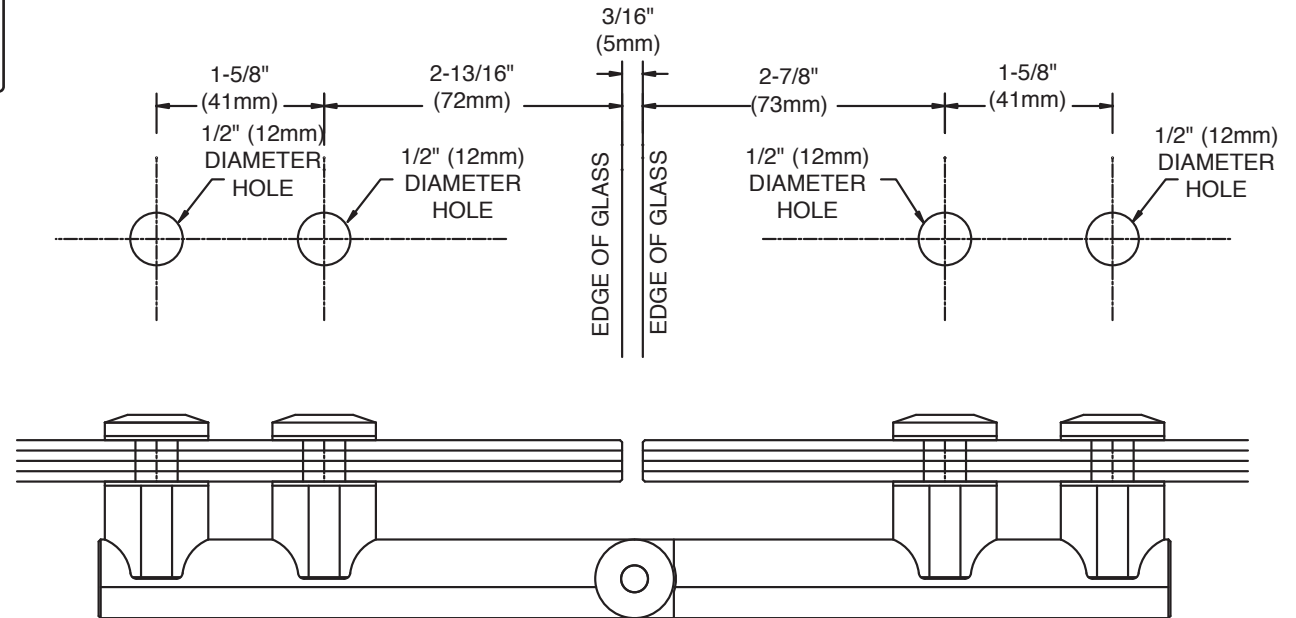
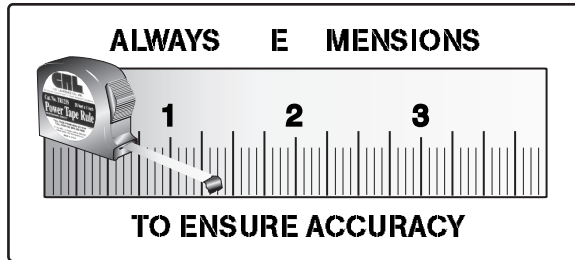
- Never use an abrasive cleaner on the hardware. Many of the components are coated with a clear lacquer that will be irreparably damaged if subjected to harsh, abrasive chemicals. Advise your customer that drying the hardware with a clean, soft towel on a daily basis is the best way to maintain the hardware. If mineral deposits build-up, mix a couple of drops of a mild liquid soap (such as Ivory or a similar product) into a cup of warm water. Using a soft, non-abrasive cloth, clean the hardware. Rinse thoroughly with clean, warm water and dry.



C.R. LAURENCE CO., INC.
PROFESSIONAL QUALITY

Important Information:

Changing the angle alters the location of the holes to be drilled in the glass!
 Before fabrication the glass to any other angle than what's shown, consult with C.R. Laurence's Technical Sales Department:
 In the United States call (800) 421-6144; from Canada call (877) 421-6144;
 Outside the I.S. and Canada call (323) 588-1281. Ask for extension 7740.



ARCTIC

180° Glass-to-Glass Outswing Hinge

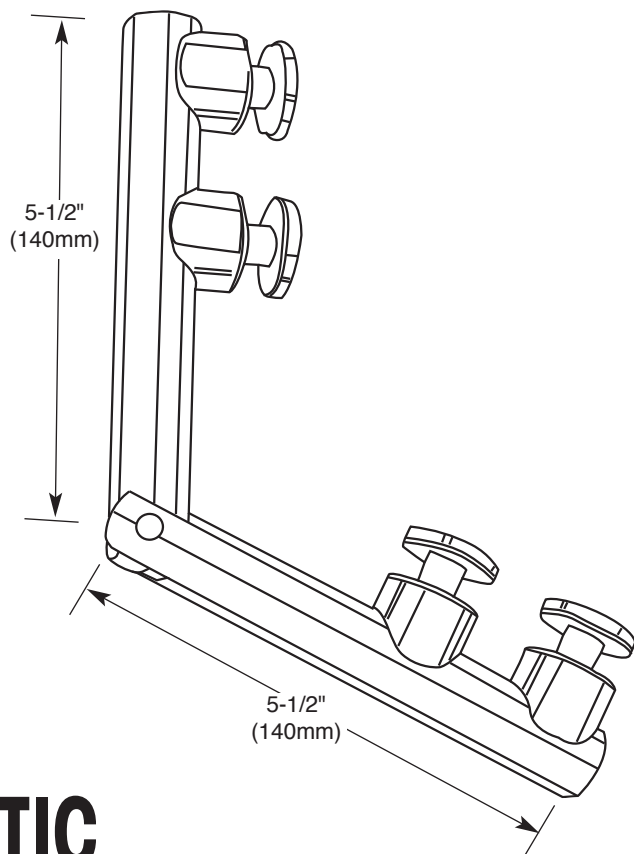
CAT. No. ARC180

C.R. Laurence Co., Inc.
 crlaurence.com

For technical assistance in the United States call toll free (800) 421-6144; from Canada call toll free (877) 421-6144;
 Outside the U.S. and Canada call (323) 588-1281. Ask for Tech Sales at Extension 7740. Toll free fax (800) 458-7496.



C.R. LAURENCE CO., INC.
PROFESSIONAL QUALITY



ARCTIC

135° Glass-to-Glass Outswing Hinge

CAT. No. ARC180

*Maximum Door Capacities	5/16" (8mm) Glass		3/8" (10mm) Glass	
	Weight	Width	Weight	Width
Using 2 Hinges	90 lbs.(40 kg)	36"(914mm)	90 lbs.(40 kg)	36"(914mm)
Using 3 Hinges	135 lbs.(61 kg)	36"(914mm)	135 lbs.(61 kg)	36"(914mm)

*NOTE: Do not exceed either maximum weight or width when choosing proper quantity of hinges.

Specifications:

Glass Sizes: 5/16" (8mm) to 3/8" (10mm) thick tempered safety glass

Construction: Stainless steel

Closing Type: Free-swinging

Two Holes Required (No Cutout)

Includes: Gaskets, screws and template

Use of Gaskets:

For 5/16" (8mm) Glass: Use one gasket on each side

For 3/8" (10mm) Glass: Use one gasket on each side

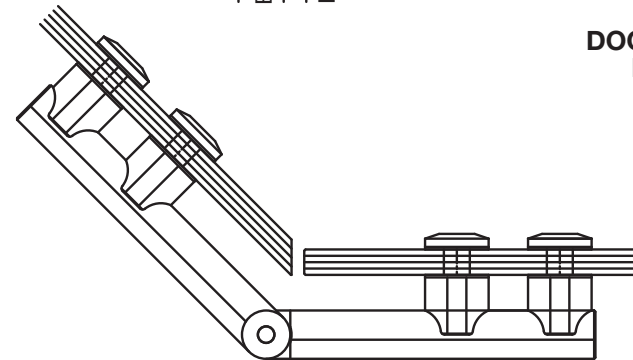
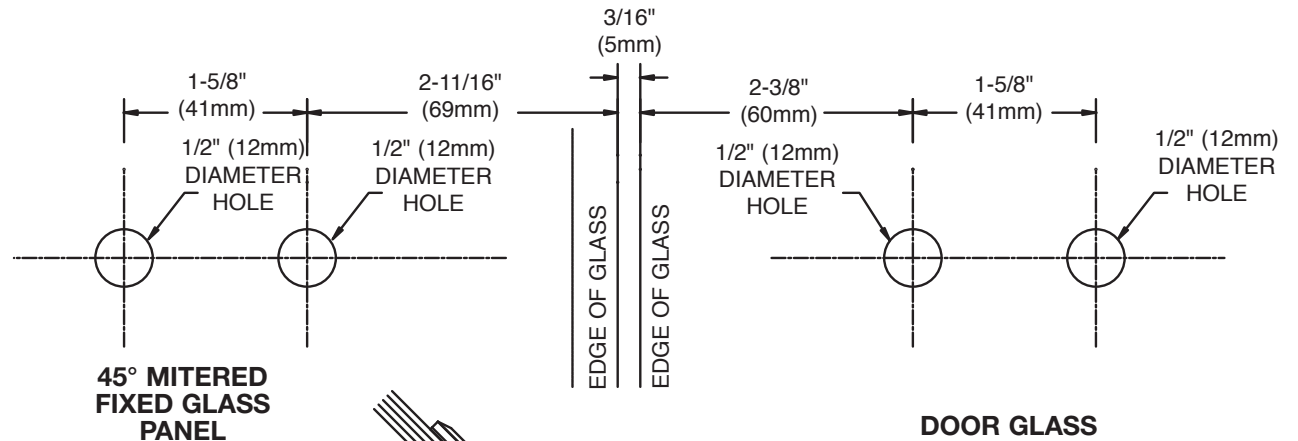
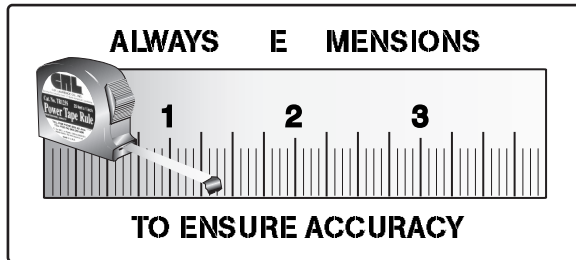
Recommendations:

For public safety, we recommend the use of only tempered safety glass.

Do not use power tools when installing these hinges.

Maintenance Guidelines:

- Never use an abrasive cleaner on the hardware. Many of the components are coated with a clear lacquer that will be irreparably damaged if subjected to harsh, abrasive chemicals. Advise your customer that drying the hardware with a clean, soft towel on a daily basis is the best way to maintain the hardware. If mineral deposits build-up, mix a couple of drops of a mild liquid soap (such as Ivory or a similar product) into a cup of warm water. Using a soft, non-abrasive cloth, clean the hardware. Rinse thoroughly with clean, warm water and dry.



135° APPLICATION SHOWN

Important Information:

Changing the angle alters the location of the holes to be drilled in the glass!
 Before fabrication the glass to any other angle than what's shown, consult with C.R. Laurence's Technical Sales Department:
 In the United States call (800) 421-6144; from Canada call (877) 421-6144;
 Outside the U.S. and Canada call (323) 588-1281. Ask for extension 7740.

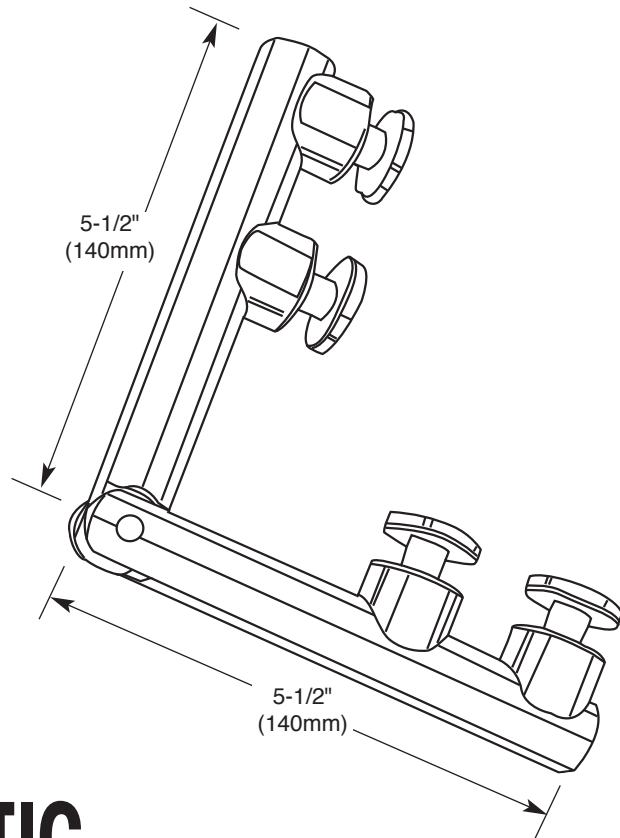
ARCTIC

135° Glass-to-Glass Outswing Hinge

CAT No. ARC180



C.R. LAURENCE CO., INC.
PROFESSIONAL QUALITY



ARCTIC

90° Glass-to-Glass Outswing Hinge

CAT. No. ARC180

*Maximum Door Capacities	5/16" (8mm) Glass		3/8" (10mm) Glass	
	Weight	Width	Weight	Width
Using 2 Hinges	90 lbs.(40 kg)	36"(914mm)	90 lbs.(40 kg)	36"(914mm)
Using 3 Hinges	135 lbs.(61 kg)	36"(914mm)	135 lbs.(61 kg)	36"(914mm)

***NOTE:** Do not exceed either maximum weight or width when choosing proper quantity of hinges.

Specifications:

Glass Sizes: 5/16" (8mm) to 3/8" (10mm) thick tempered safety glass

Construction: Stainless steel

Closing Type: Free-swinging

Two Holes Required (No Cutout)

Includes: Gaskets, screws and template

Use of Gaskets:

For 5/16" (8mm) Glass: Use one gasket on each side

For 3/8" (10mm) Glass: Use one gasket on each side

Recommendations:

For public safety, we recommend the use of only tempered safety glass.

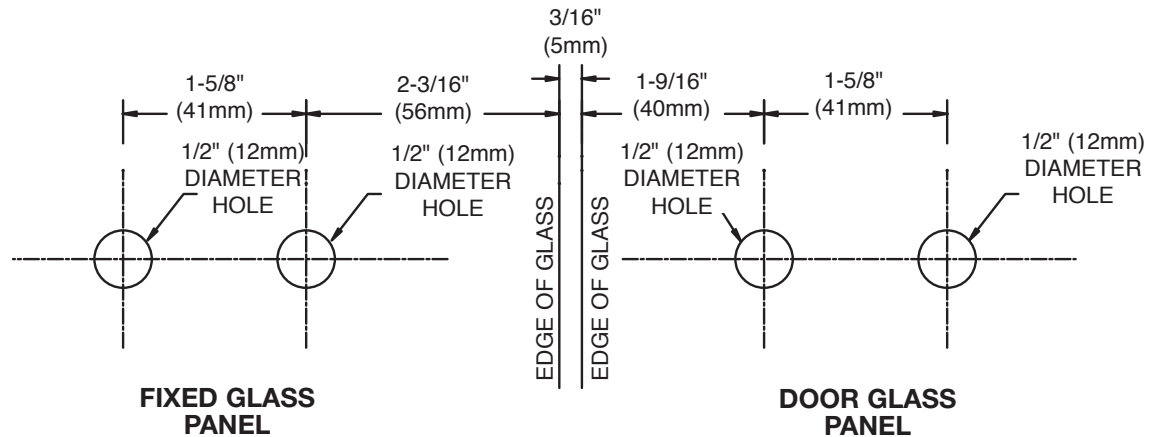
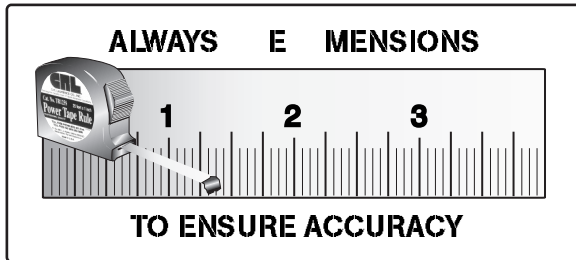
Do not use power tools when installing these hinges.

Maintenance Guidelines:

- Never use an abrasive cleaner on the hardware. Many of the components are coated with a clear lacquer that will be irreparably damaged if subjected to harsh, abrasive chemicals. Advise your customer that drying the hardware with a clean, soft towel on a daily basis is the best way to maintain the hardware. If mineral deposits build-up, mix a couple of drops of a mild liquid soap (such as Ivory or a similar product) into a cup of warm water. Using a soft, non-abrasive cloth, clean the hardware. Rinse thoroughly with clean, warm water and dry.

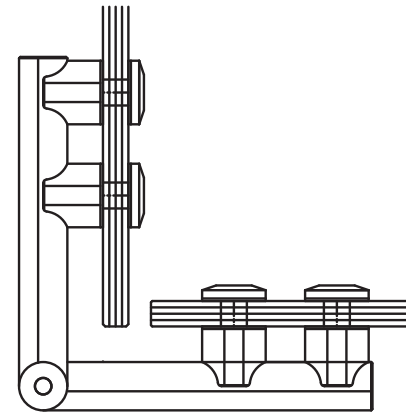


C.R. LAURENCE CO., INC.
PROFESSIONAL QUALITY



Important Information:

Changing the angle alters the location of the holes to be drilled in the glass!
 Before fabrication the glass to any other angle than what's shown, consult with C.R. Laurence's Technical Sales Department:
 In the United States call (800) 421-6144; from Canada call (877) 421-6144;
 Outside the U.S. and Canada call (323) 588-1281. Ask for extension 7740.



90° APPLICATION SHOWN

ARCTIC

90° Glass-to-Glass Outswing Hinge

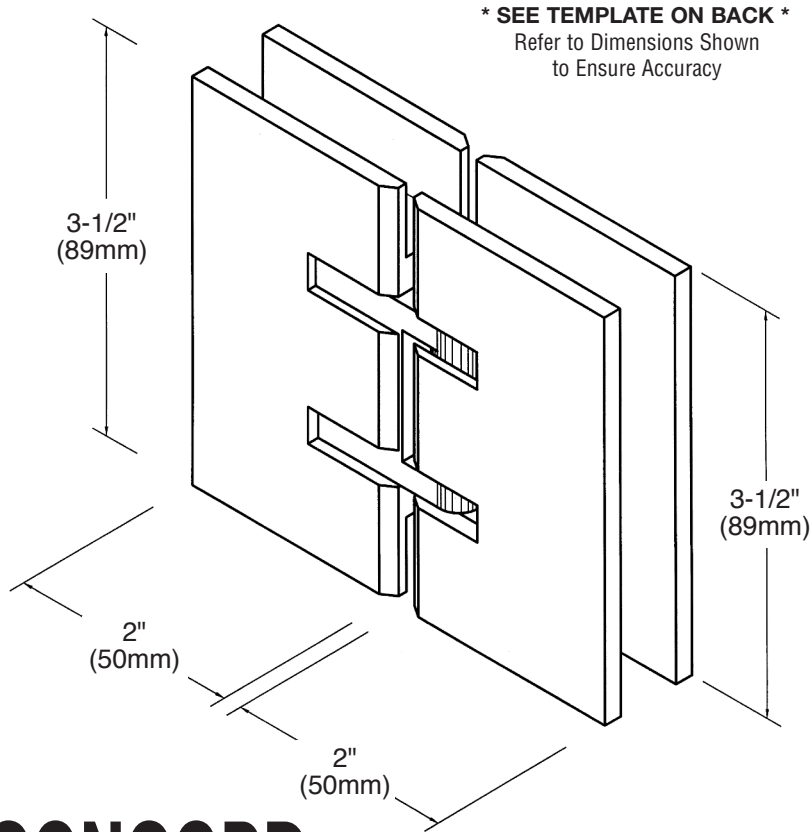
CAT No. ARC180

C.R. Laurence Co., Inc.
crlaurence.com

For technical assistance in the United States call toll free (800) 421-6144; from Canada call toll free (877) 421-6144;
 Outside the U.S. and Canada call (323) 588-1281. Ask for Tech Sales at Extension 7740. Toll free fax (800) 458-7496.



C.R. LAURENCE CO., INC.
PROFESSIONAL QUALITY



CONCORD (FORMERLY LALIQUE)

180° Glass-to-Glass Hinge

Cat. No. SDH180

*Maximum Door Capacities	3/8" (10mm) Glass		1/2" (12mm) Glass	
	Weight	Width	Weight	Width
Using 2 Hinges	80 lbs.(36 kg)	28"(711mm)	80 lbs.(36 kg)	26"(660mm)
Using 3 Hinges	120 lbs.(55 kg)	34"(864mm)	120 lbs.(55 kg)	30"(762mm)

*NOTE: Do not exceed either maximum weight or width when choosing proper quantity of hinges.

Important Information:

The door and fixed panel use the same cutout.

Specifications:

Glass Sizes: 3/8" (10mm) to 1/2" (12mm) thick tempered safety glass

Construction: Solid brass

Closing Type: Self-centering when within 15° of closed position

Cutout Required

Includes: Gaskets, screws and template

Use of Gaskets:

For 3/8"(10mm) Glass: Use one thick gasket on each side

For 1/2"(12mm) Glass: Use one thin gasket on each side

Recommendations:

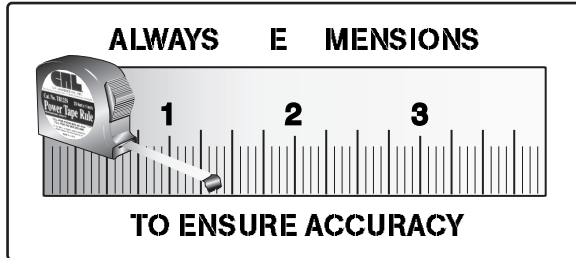
For public safety, we recommend the use of only tempered safety glass. Do not use power tools when installing these hinges.

Maintenance Guidelines:

- Never use an abrasive cleaner on the hardware. Many of the components are coated with a clear lacquer that will be irreparably damaged if subjected to harsh, abrasive chemicals. Advise your customer that drying the hardware with a clean, soft towel on a daily basis is the best way to maintain the hardware. If mineral deposits build-up, mix a couple of drops of a mild liquid soap (such as Ivory or a similar product) into a cup of warm water. Using a soft, non-abrasive cloth, clean the hardware. Rinse thoroughly with clean, warm water and dry.



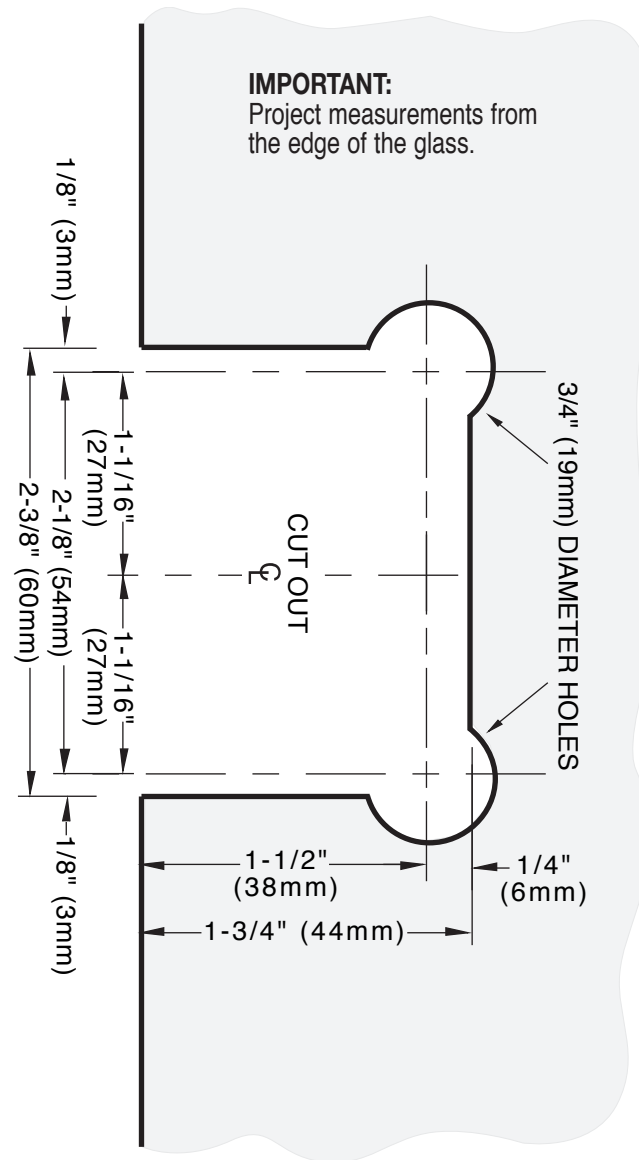
C.R. LAURENCE CO., INC.
PROFESSIONAL QUALITY



CONCORD (FORMERLY LALIQUE)

180° Glass-to-Glass Hinge

CAT. No. SDH180



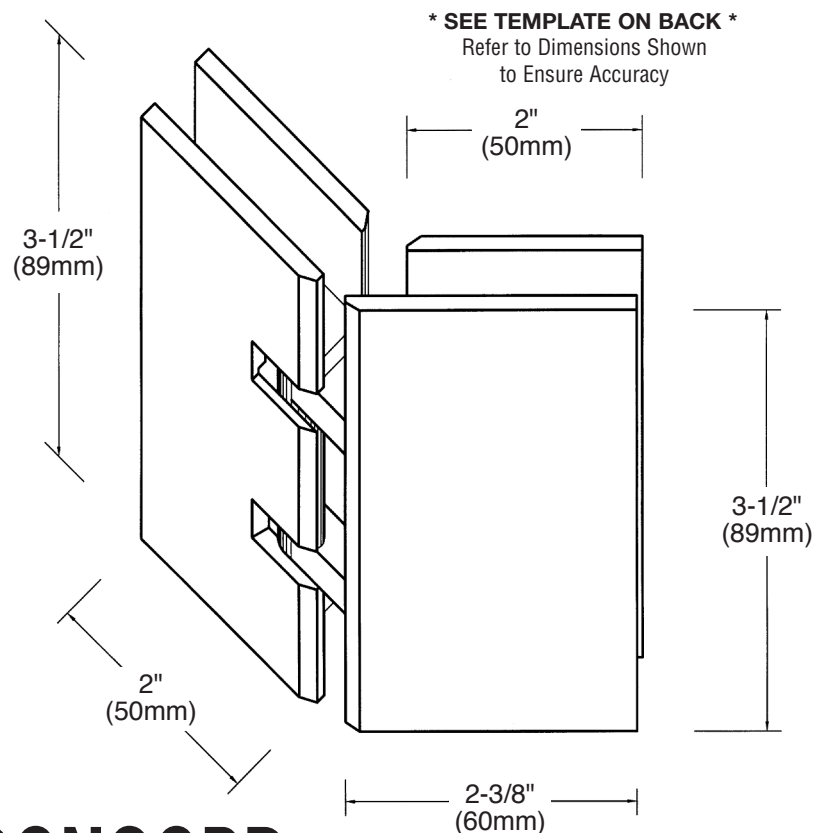
C.R. Laurence Co., Inc. For technical assistance in the United States call toll free (800) 421-6144; from Canada call toll free (877) 421-6144;
crlaurence.com Outside the U.S. and Canada call (323) 588-1281. Ask for Tech Sales at Extension 7740. Toll free fax (800) 458-7496.



C.R. LAURENCE CO., INC.
PROFESSIONAL QUALITY

Important Information:

The fixed panel measurements must be taken from the outside of the miter.



Specifications:

Glass Sizes: 3/8" (10mm) to 1/2" (12mm) thick tempered safety glass

Construction: Solid brass

Closing Type: Self-centering when within 15° of closed position

Cutout Required

Includes: Gaskets, screws and template

Use of Gaskets:

For 3/8"(10mm) Glass: Use one thick gasket on each side

For 1/2"(12mm) Glass: Use one thin gasket on each side

Recommendations:

For public safety, we recommend the use of only tempered safety glass. Do not use power tools when installing these hinges.

Maintenance Guidelines:

- Never use an abrasive cleaner on the hardware. Many of the components are coated with a clear lacquer that will be irreparably damaged if subjected to harsh, abrasive chemicals. Advise your customer that drying the hardware with a clean, soft towel on a daily basis is the best way to maintain the hardware. If mineral deposits build-up, mix a couple of drops of a mild liquid soap (such as Ivory or a similar product) into a cup of warm water. Using a soft, non-abrasive cloth, clean the hardware. Rinse thoroughly with clean, warm water and dry.

CONCORD (FORMERLY LALIQUE)

135° Glass-to-Glass Hinge

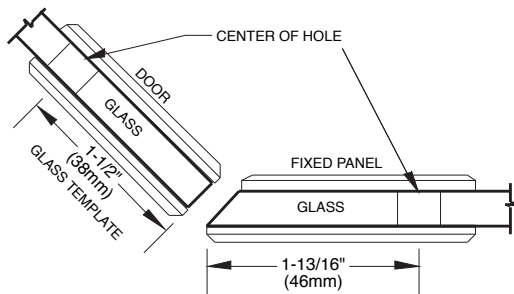
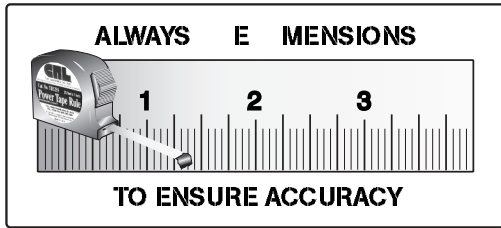
CAT. No. SDH135

(This hinge requires two different templates, one for the door and one for the mitered fixed panel).

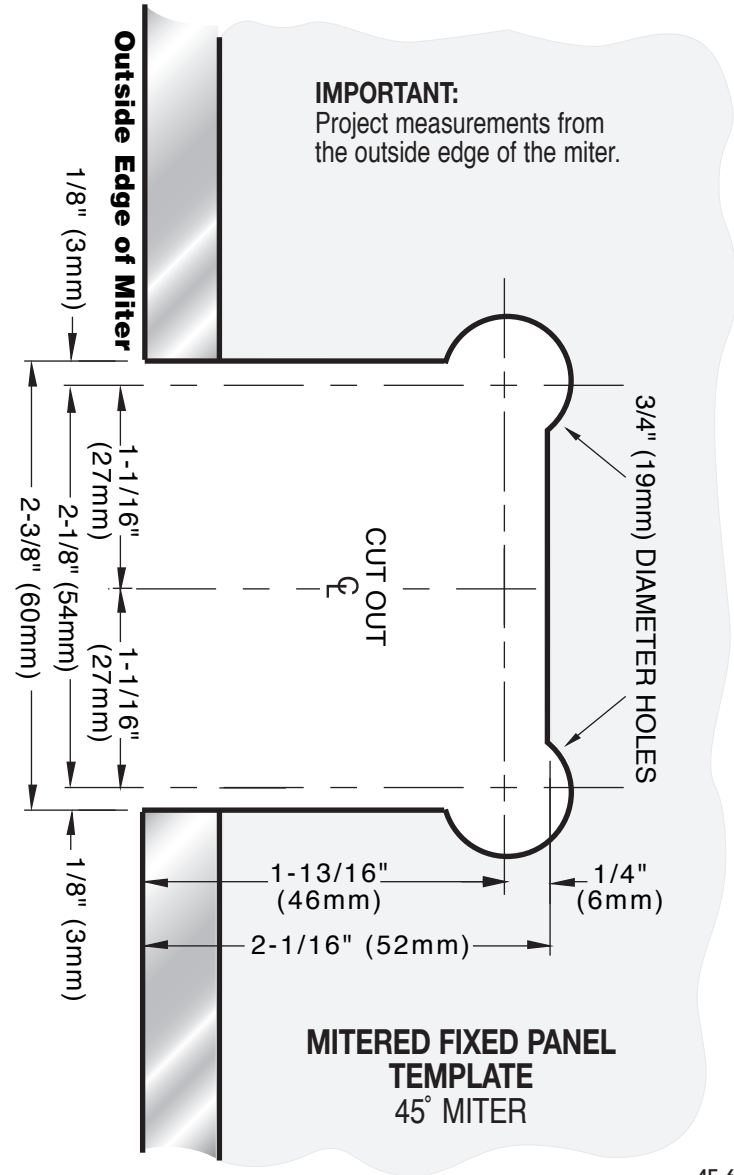
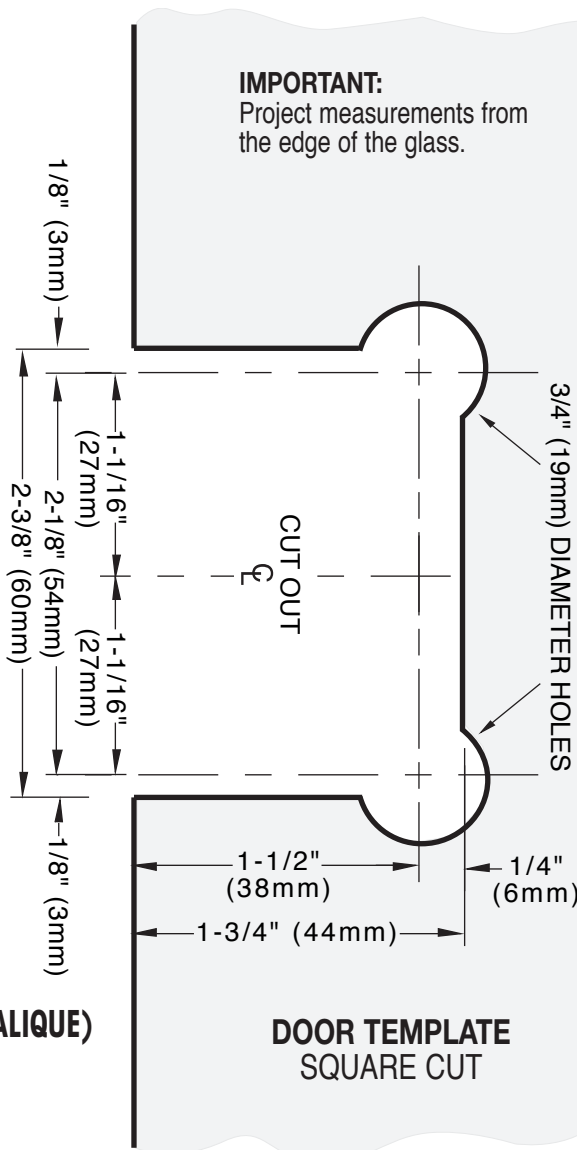
* Maximum Door Capacities	3/8" (10mm) Glass		1/2" (12mm) Glass	
	Weight	Width	Weight	Width
Using 2 Hinges	80 lbs.(36 kg)	28"(711mm)	80 lbs.(36 kg)	26"(660mm)
Using 3 Hinges	120 lbs.(55 kg)	34"(864mm)	120 lbs.(55 kg)	30"(762mm)

*NOTE: Do not exceed either maximum weight or width when choosing proper quantity of hinges.

4E-5

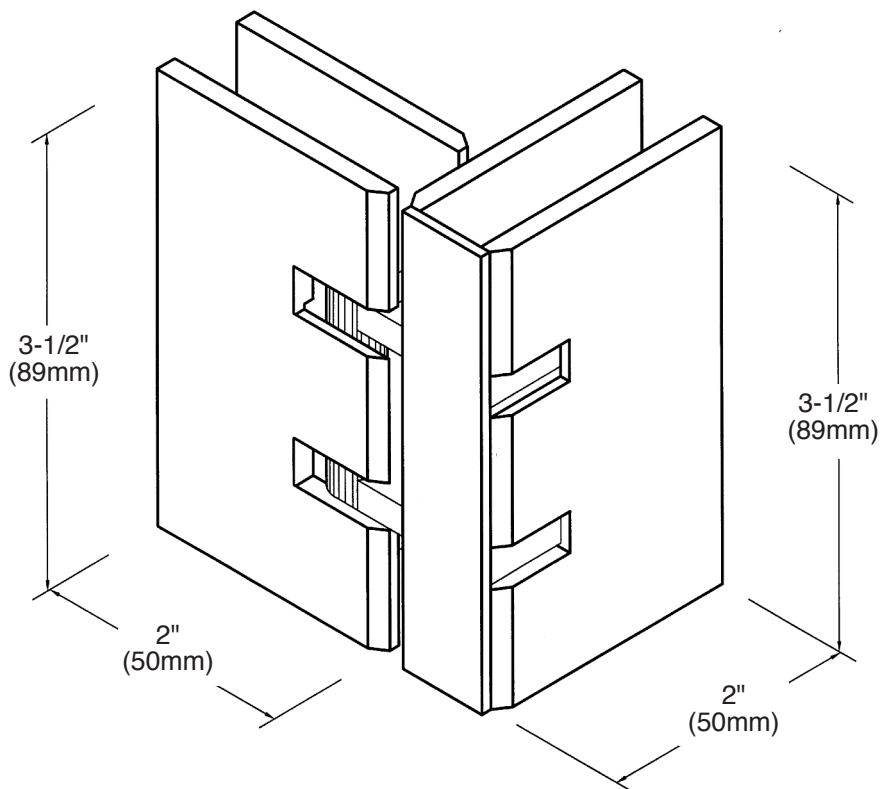


CONCORD (FORMERLY LALIQUE)
135° Glass-to-Glass Hinge
CAT. No. SDH135





C.R. LAURENCE CO., INC.
PROFESSIONAL QUALITY



Important Information:

The door and fixed panel use the same cutout.

Specifications:

Glass Sizes: 3/8" (10mm) to 1/2" (12mm) thick tempered safety glass

Construction: Solid brass

Closing Type: Self-centering when within 15° of closed position

Cutout Required

Includes: Gaskets, screws and template

Use of Gaskets:

For 3/8" (10mm) Glass: Use one thick gasket on each side

For 1/2" (12mm) Glass: Use one thin gasket on each side

Recommendations:

For public safety, we recommend the use of only tempered safety glass.
 Do not use power tools when installing these hinges.

Maintenance Guidelines:

- Never use an abrasive cleaner on the hardware. Many of the components are coated with a clear lacquer that will be irreparably damaged if subjected to harsh, abrasive chemicals. Advise your customer that drying the hardware with a clean, soft towel on a daily basis is the best way to maintain the hardware. If mineral deposits build-up, mix a couple of drops of a mild liquid soap (such as Ivory or a similar product) into a cup of warm water. Using a soft, non-abrasive cloth, clean the hardware. Rinse thoroughly with clean, warm water and dry.

CONCORD (FORMERLY LALIQUE)

90° Glass-to-Glass Hinge

CAT. No. SDH090

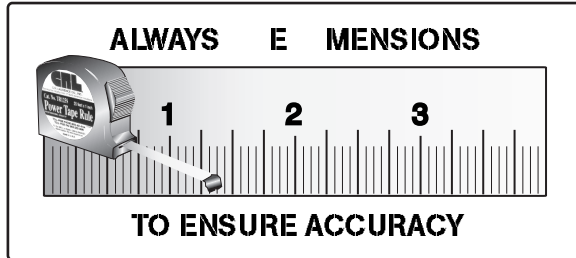
*** SEE TEMPLATE ON BACK ***
 Refer to Dimensions Shown
 to Ensure Accuracy

* Maximum Door Capacities	3/8" (10mm) Glass		1/2" (12mm) Glass	
	Weight	Width	Weight	Width
Using 2 Hinges	80 lbs.(36 kg)	28"(711mm)	80 lbs.(36 kg)	26"(660mm)
Using 3 Hinges	120 lbs.(55 kg)	34"(864mm)	120 lbs.(55 kg)	30"(762mm)

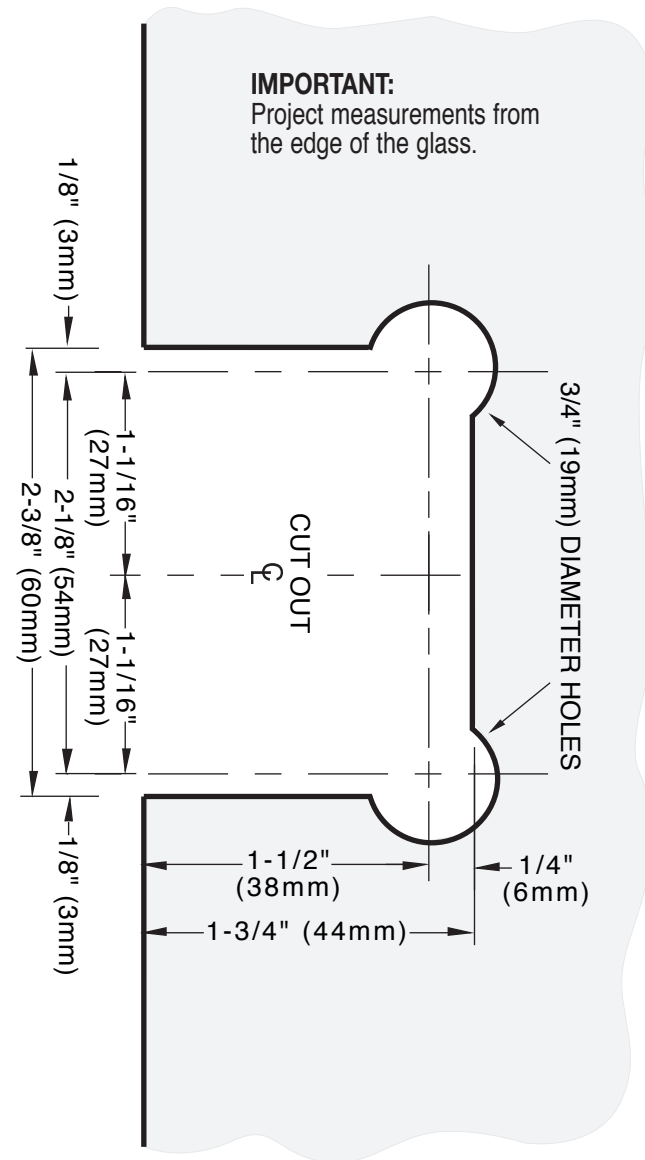
***NOTE:** Do not exceed either maximum weight or width when choosing proper quantity of hinges.



C.R. LAURENCE CO., INC.
PROFESSIONAL QUALITY



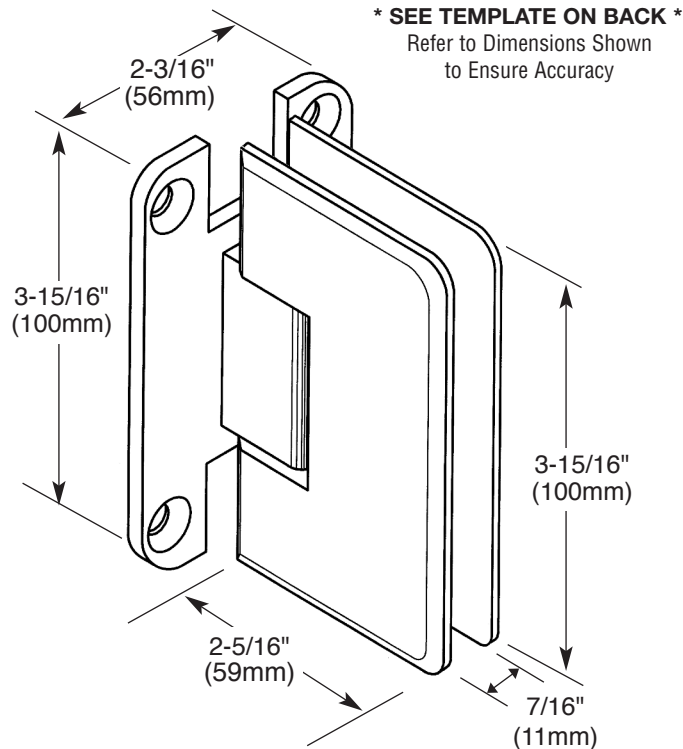
CONCORD (FORMERLY LALIQUE)
 90° Glass-to-Glass Hinge
 CAT. No. SDH090



C.R. Laurence Co., Inc. For technical assistance in the United States call toll free (800) 421-6144; from Canada call toll free (877) 421-6144;
 crlaurence.com Outside the U.S. and Canada call (323) 588-1281. Ask for Tech Sales at Extension 7740. Toll free fax (800) 458-7496.



C.R. LAURENCE CO., INC.
PROFESSIONAL QUALITY



Important Information:

- 1) This Hinge contains a dual degree pivot pin. The pivot pin is set for normal door closing position. You have the option of altering the closing position of the door 5 degrees inward by utilizing the opposite side of the pivot pin, which has been pre-machined. Special order custom pivot pins are available (Cat.No. V1EP1N) that can be machined at any angle up to 45 degrees.
- 2) The Cologne Hinge is designed to accommodate two types of cut-outs in the glass. If the two steel pins in the body of the Hinge are left in place, the "mouse ear" cut-out option should be used. This application is recommended to prevent slippage. If the two steel pins are removed, the rectangular cut-out option can be utilized.

Specifications:

- Glass Sizes:** 3/8" (10mm) to 1/2" (12mm) thick tempered safety glass
Construction: Solid brass
Closing Type: Self-centering when within 15° of closed position
Cut-out Required
Includes: Gaskets, screws and template

Use of Gaskets:

- For 3/8" (10mm) Glass:** Use one thick gasket on each side
For 1/2" (12mm) Glass: Use one thin gasket on each side

Recommendations:

For public safety, we recommend the use of only tempered safety glass. Do not use power tools when installing these hinges.

Maintenance Guidelines:

- Our hinges are greased at the factory for quiet and trouble-free operation. If there is any squeaking that occurs after installation, put a drop of "3 in 1 Oil" (also known as "household oil") on the white nylon washer that the hinge body pivots on. This washer is the component that acts as a buffer, so the body of the hinge doesn't pivot directly on the brass center block. This solution doesn't require the disassembly of the hinge.
Note: Do not use spray lubricant on these hinges. If the hinge has been disassembled, upon re-assembly, use white lithium grease to lubricate the interior mechanism.
- Never use an abrasive cleaner on the hardware. Many of the components are coated with a clear lacquer that will be irreparably damaged if subjected to harsh, abrasive chemicals. Advise your customer that drying the hardware with a clean, soft towel on a daily basis is the best way to maintain the hardware. If mineral deposits build-up, mix a couple of drops of a mild liquid soap (such as Ivory or a similar product) into a cup of warm water. Using a soft, non-abrasive cloth, clean the hardware. Rinse thoroughly with clean, warm water and dry.

COLOGNE

Wall Mount Hinge

CAT. No. COL037

*Maximum Door Capacities	3/8" (10mm) Glass		1/2" (12mm) Glass	
	Weight	Width	Weight	Width
Using 2 Hinges	110 lbs.(50 kg)	36"(914mm)	110 lbs.(50 kg)	36"(914mm)
Using 3 Hinges	140 lbs.(64 kg)	36"(914mm)	140 lbs.(64 kg)	36"(914mm)

*NOTE: Do not exceed either maximum weight or width when choosing proper quantity of hinges.

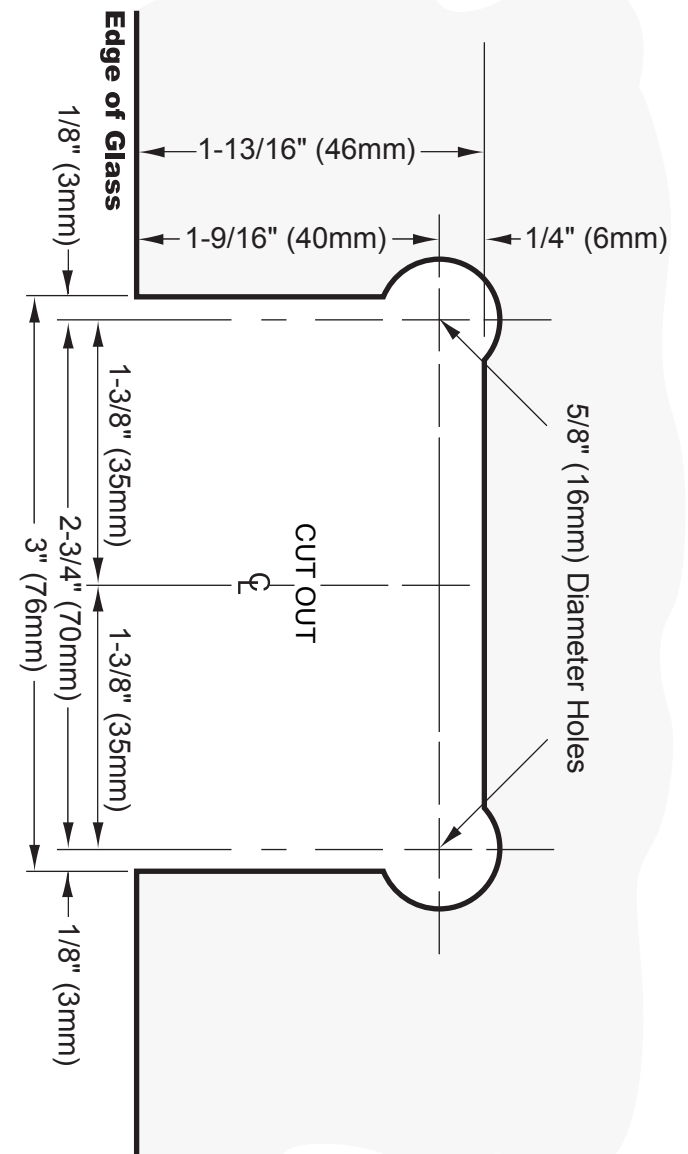
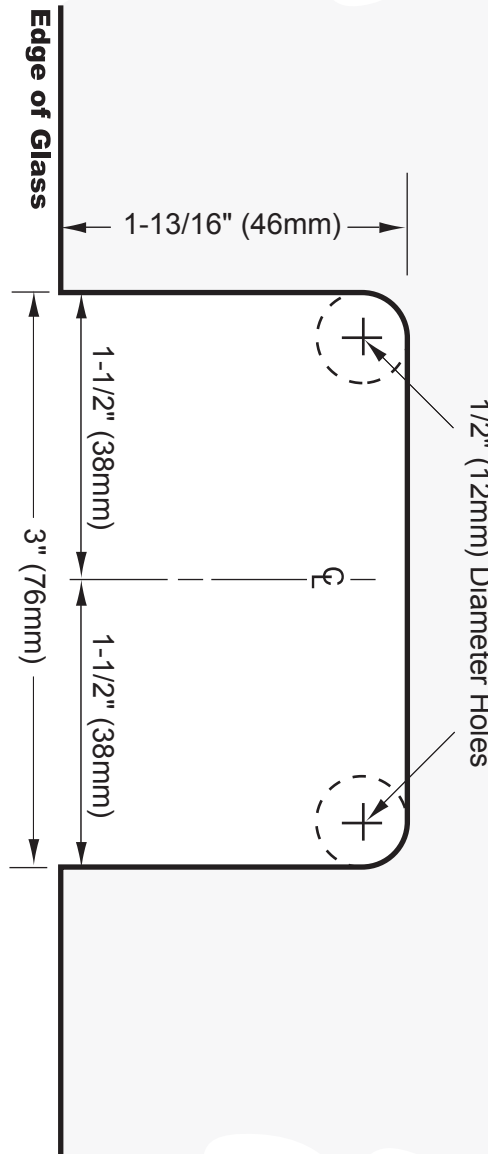
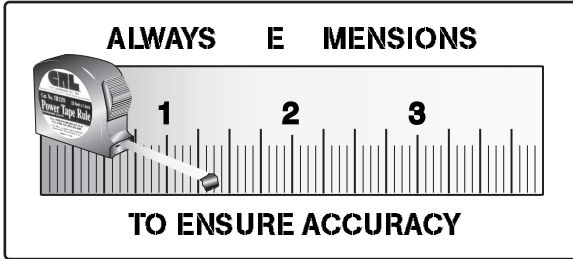


C.R. LAURENCE CO., INC.
PROFESSIONAL QUALITY

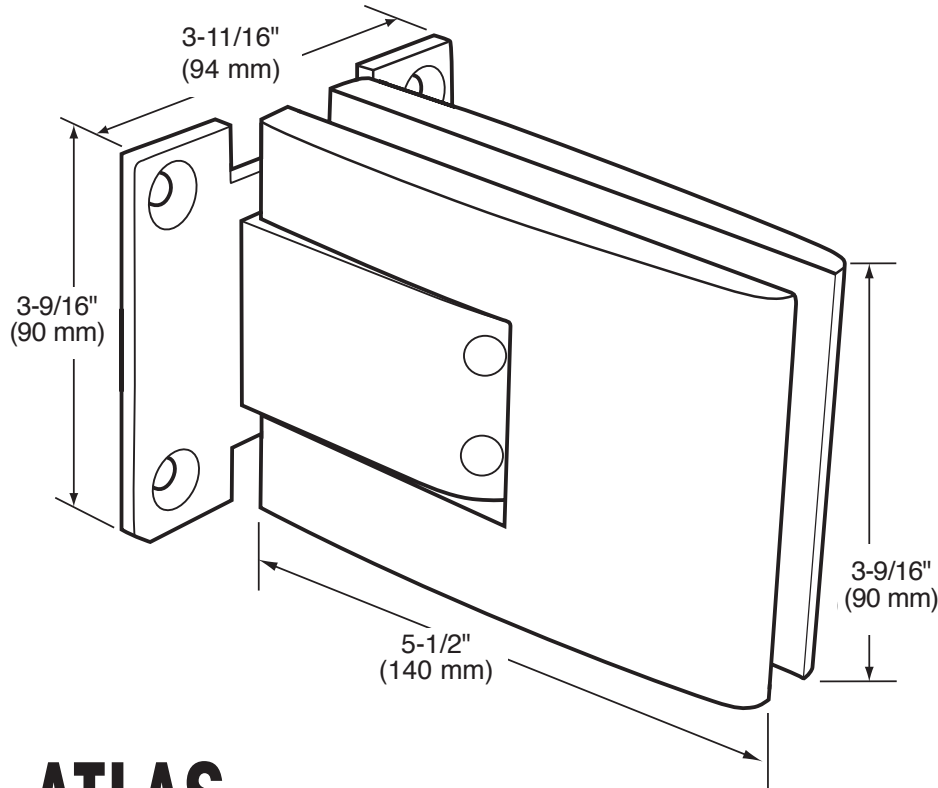
**Rectangular
Cut-out Option**

IMPORTANT:
Project measurements from
the edge of the glass.

**"Mouse-Ear"
Cut-out Option**



COLOGNE
Wall Mount Hinge
CAT. No. COL037



ATLAS
 Wall Mount Hinge
 CAT No. ATLO1

*Maximum Door Capacities	5/16" (8 mm) Glass		3/8" (10 mm) Glass		1/2" (12 mm) Glass	
	Weight	Width	Weight	Width	Weight	Width
*Using 2 Hinges	140 lbs. (63.5 kg)	39" (991 mm)	140 lbs. (63.5 kg)	39" (991 mm)	140 lbs. (63.5 kg)	39" (991 mm)

*NOTE: Maximum of 2 hinges. Never use 3 hinges under any circumstance.

Important Information:

This Atlas Hinge is spring-loaded and designed to self-close from virtually any position. There is an adjustment to allow for increased self-closing strength. The Atlas Hinge also provides fine-tune adjustability to the self-closing location.

Specifications:

- Glass Thickness Range:** 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
- Cutout and Hole Required**
- Includes:** Gaskets, Screws and Glass Fabrication Dimensions

Use of Gaskets:

- For 5/16" (8 mm) Glass:** Use one thick gasket on each side
- For 3/8" (10 mm) Glass:** Use one medium gasket on each side
- For 1/2" (12 mm) Glass:** Use one thin gasket on each side

Recommendations:

For public safety, we recommend the use of only tempered safety glass. Do not use power tools when installing these hinges.

Maintenance Guidelines:

- Our hinges are greased at the factory for quiet and trouble-free operation. If there is any squeaking that occurs after installation, put a drop of "3 in 1 Oil" (also known as "household oil") on the washer that the hinge body pivots on. This washer is the component that acts as a buffer, so the body of the hinge doesn't pivot directly on the brass center block. This solution doesn't require the disassembly of the hinge.

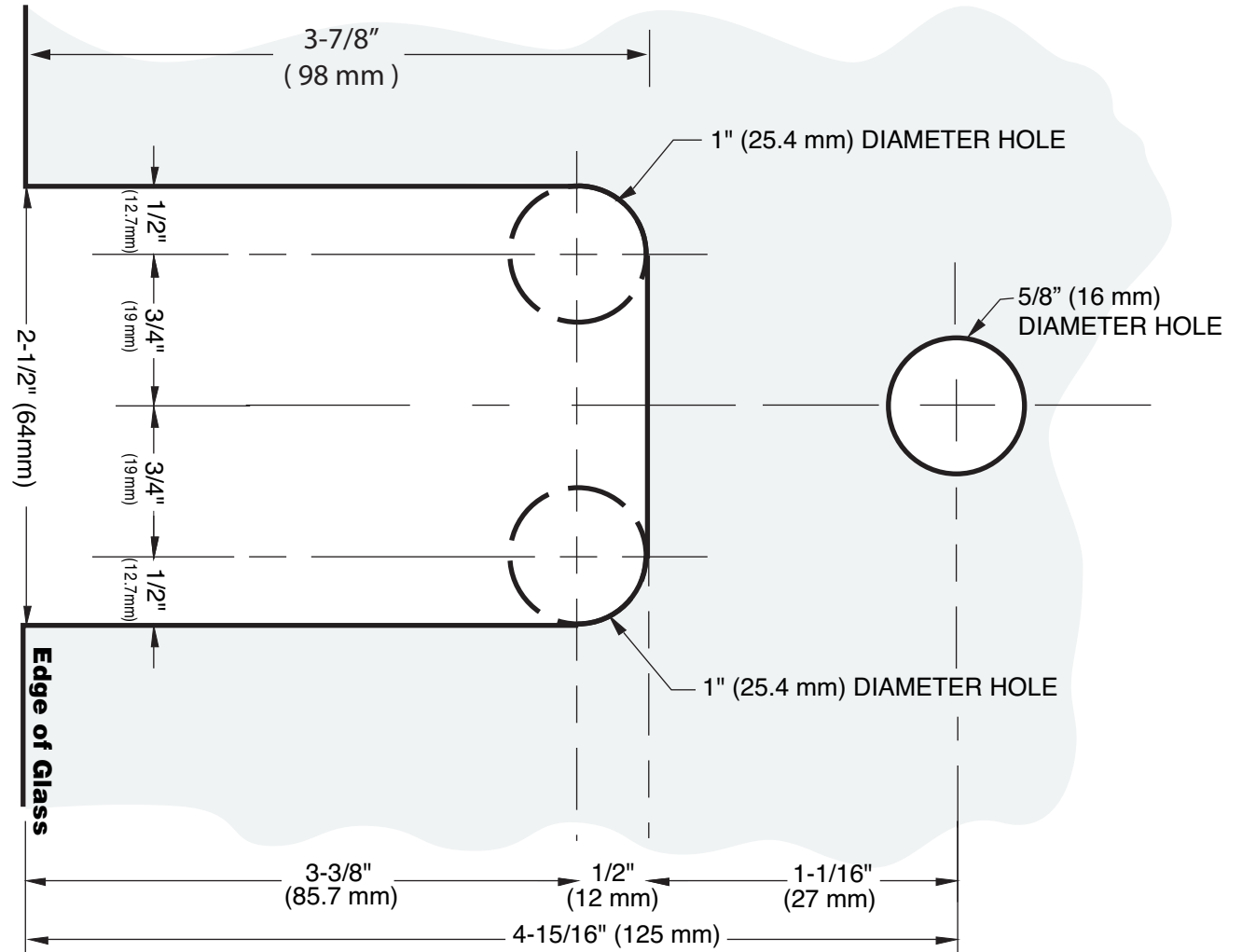
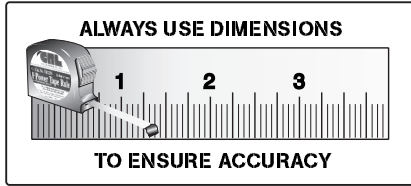
Note: Do not use spray lubricant on these hinges. If the hinge has been disassembled, upon re-assembly, use white lithium grease to lubricate the interior mechanism.

- Never use an abrasive cleaner on the hardware. Many of the components are coated with a clear lacquer that will be irreparably damaged if subjected to harsh, abrasive chemicals. Advise your customer that drying the hardware with a clean, soft towel on a daily basis is the best way to maintain the hardware. If mineral deposits build-up, mix a couple of drops of a mild liquid soap (such as Ivory or a similar product) into a cup of warm water. Using a soft, non-abrasive cloth, clean the hardware. Rinse thoroughly with clean, warm water and dry.



C.R. LAURENCE CO., INC.
PROFESSIONAL QUALITY

Important: Project measurements from the edge of the glass.



ATLAS

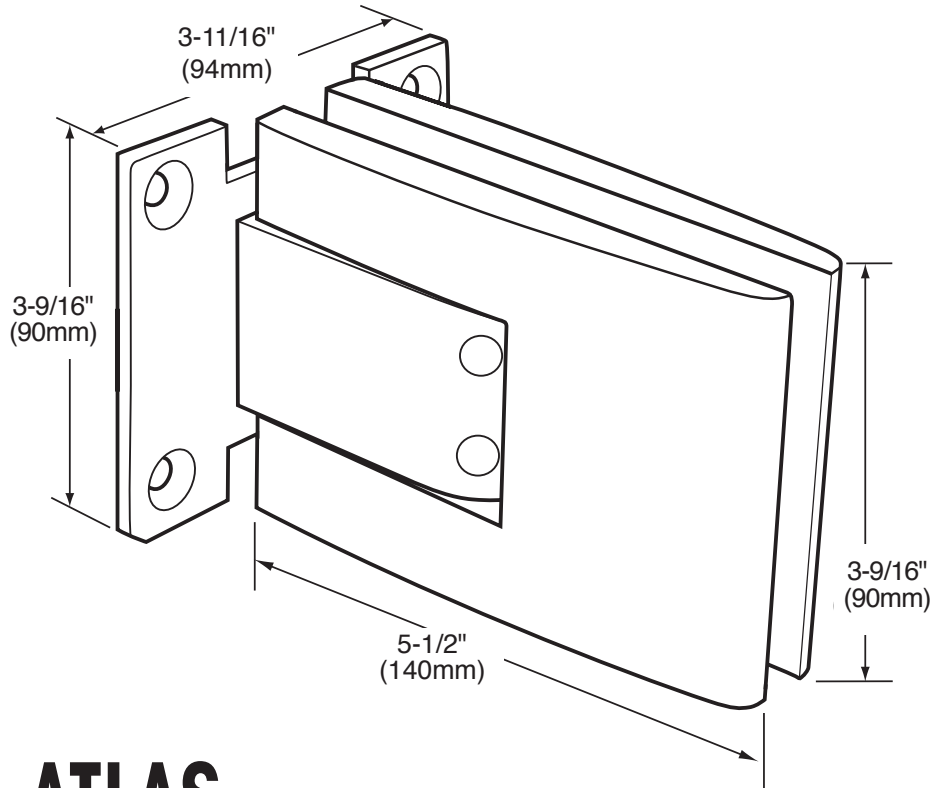
Wall Mount Hinge

CAT No. ATLO1

1/4" to 5/16" (6mm to 8mm) Clearance

C.R. Laurence Co., Inc.
crlaurence.com

For technical assistance in the United States call toll free (800) 421-6144; from Canada call toll free (877) 421-6144; Outside the U.S. and Canada call (323) 588-1281. Ask for Tech Sales at Extension 7740. Toll free fax (800) 458-7496.



ATLAS

Wall Mount Hinge

CAT No. ATLO1

Special 1/8" to 3/16" Clearance

*Maximum Door Capacities	5/16" (8mm) Glass		3/8" (10mm) Glass		1/2" (12mm) Glass	
	Weight	Width	Weight	Width	Weight	Width
*Using 2 Hinges	140 lbs. (63.5 kg)	39" (991mm)	140 lbs. (63.5 kg)	39" (991mm)	140 lbs. (63.5 kg)	39" (991mm)

*NOTE: Maximum of 2 hinges. Never use 3 hinges under any circumstance.

Important Information:

This Atlas Hinge is spring-loaded and designed to self-close from virtually any position. There is an adjustment to allow for increased self-closing strength. The Atlas Hinge also provides fine-tune adjustability to the self-closing location.

Specifications:

Glass Thickness Range: 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

Cutout and Hole Required

Includes: Gaskets, Screws and Glass Fabrication Dimensions

Use of Gaskets:

For 5/16" (8 mm) Glass: Use one thick gasket on each side

For 3/8" (10 mm) Glass: Use one medium gasket on each side

For 1/2" (12 mm) Glass: Use one thin gasket on each side

Recommendations:

For public safety, we recommend the use of only tempered safety glass. Do not use power tools when installing these hinges.

Maintenance Guidelines:

- Our hinges are greased at the factory for quiet and trouble-free operation. If there is any squeaking that occurs after installation, put a drop of "3 in 1 Oil" (also known as "household oil") on the washer that the hinge body pivots on. This washer is the component that acts as a buffer, so the body of the hinge doesn't pivot directly on the brass center block. This solution doesn't require the disassembly of the hinge.

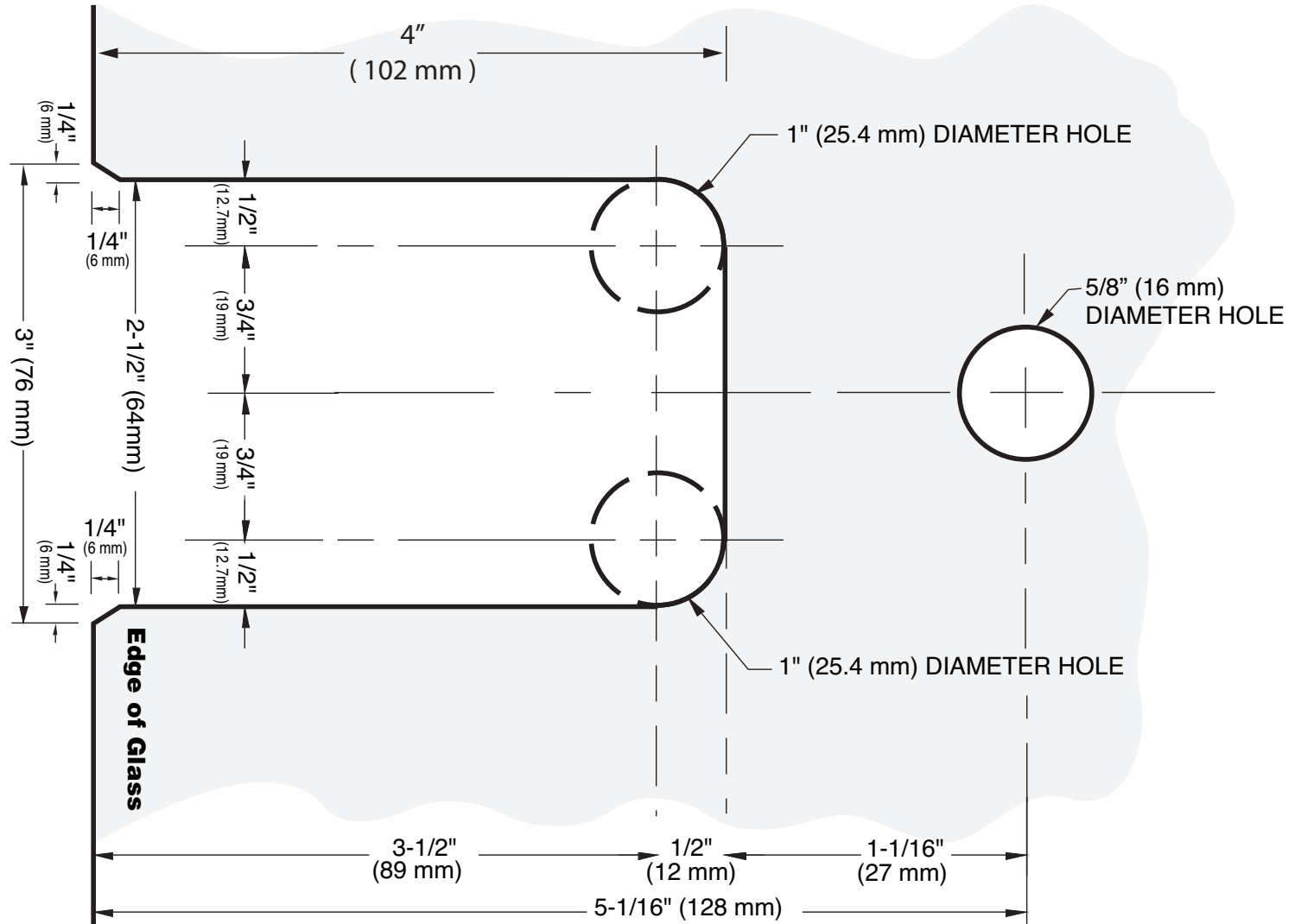
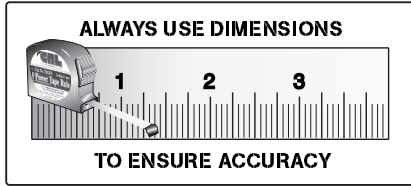
Note: Do not use spray lubricant on these hinges. If the hinge has been disassembled, upon re-assembly, use white lithium grease to lubricate the interior mechanism.

- Never use an abrasive cleaner on the hardware. Many of the components are coated with a clear lacquer that will be irreparably damaged if subjected to harsh, abrasive chemicals. Advise your customer that drying the hardware with a clean, soft towel on a daily basis is the best way to maintain the hardware. If mineral deposits build-up, mix a couple of drops of a mild liquid soap (such as Ivory or a similar product) into a cup of warm water. Using a soft, non-abrasive cloth, clean the hardware. Rinse thoroughly with clean, warm water and dry.



C.R. LAURENCE CO., INC.
PROFESSIONAL QUALITY

Important: Project measurements from the edge of the glass.



ATLAS

Wall Mount Hinge

CAT No. ATLO1

Special 1/8" to 3/16" (3.2 to 4.8 mm) Clearance Option

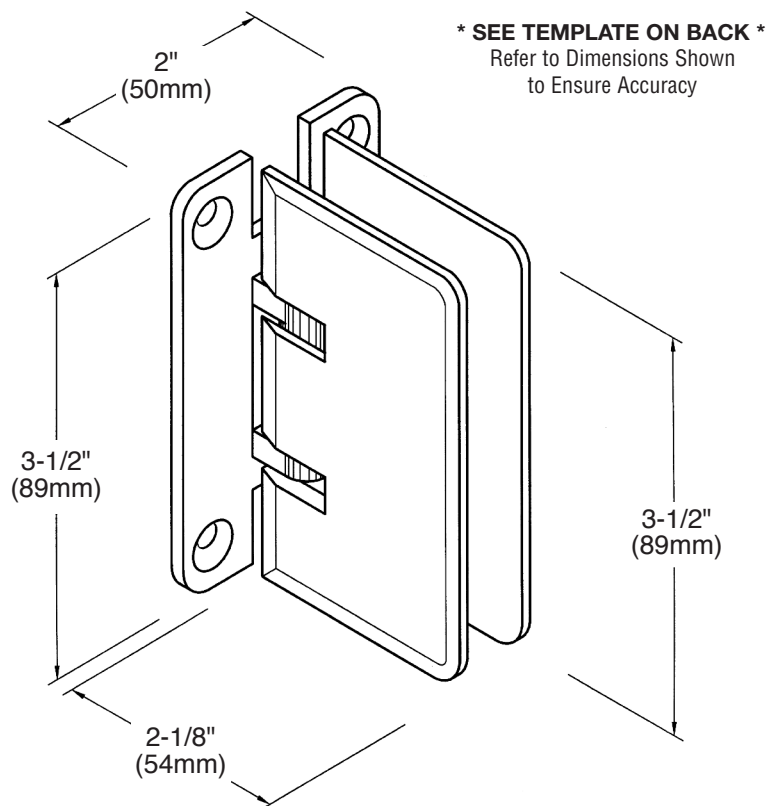
C.R. Laurence Co., Inc.
crlaurence.com

For technical assistance in the United States call toll free (800) 421-6144; from Canada call toll free (877) 421-6144; Outside the U.S. and Canada call (323) 588-1281. Ask for Tech Sales at Extension 7740. Toll free fax (800) 458-7496.

© Copyright 2005, C.R. Laurence Co., Inc_SDT21_U5.



C.R. LAURENCE CO., INC.
PROFESSIONAL QUALITY



Specifications:

Glass Sizes: 3/8" (10mm) to 1/2" (12mm) thick tempered safety glass

Construction: Solid brass

Closing Type: Self-centering when within 15° of closed position

Cutout Required

Includes: Gaskets, screws and template

Use of Gaskets:

For 3/8"(10mm) Glass: Use one thick gasket on each side

For 1/2"(12mm) Glass: Use one thin gasket on each side

Recommendations:

For public safety, we recommend the use of only tempered safety glass. Do not use power tools when installing these hinges.

Maintenance Guidelines:

- Never use an abrasive cleaner on the hardware. Many of the components are coated with a clear lacquer that will be irreparably damaged if subjected to harsh, abrasive chemicals. Advise your customer that drying the hardware with a clean, soft towel on a daily basis is the best way to maintain the hardware. If mineral deposits build-up, mix a couple of drops of a mild liquid soap (such as Ivory or a similar product) into a cup of warm water. Using a soft, non-abrasive cloth, clean the hardware. Rinse thoroughly with clean, warm water and dry.

ESTATE

Wall Mount Hinge

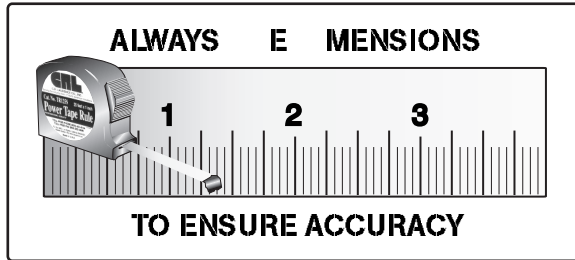
Cat. No. EST037

* Maximum Door Capacities	3/8" (10mm) Glass		1/2" (12mm) Glass	
	Weight	Width	Weight	Width
Using 2 Hinges	80 lbs.(36 kg)	28"(711mm)	80 lbs.(36 kg)	26"(660mm)
Using 3 Hinges	120 lbs.(55 kg)	34"(864mm)	120 lbs.(55 kg)	30"(762mm)

*NOTE: Do not exceed either maximum weight or width when choosing proper quantity of hinges.



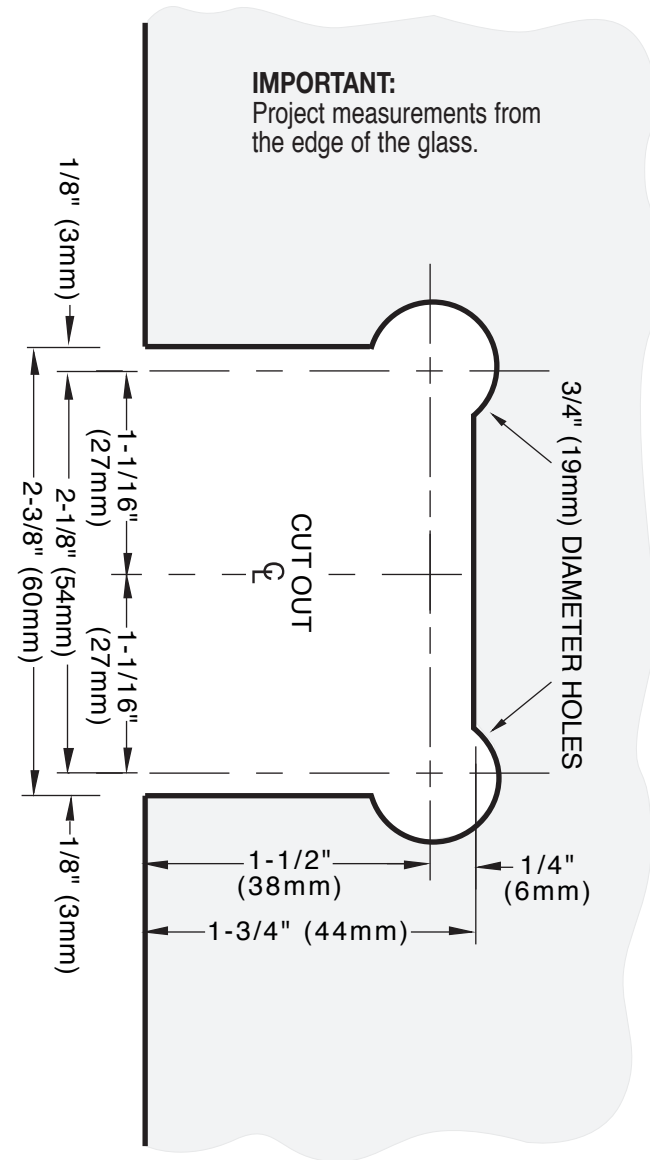
C.R. LAURENCE CO., INC.
PROFESSIONAL QUALITY



ESTATE

Wall Mount Hinge

CAT No. EST037



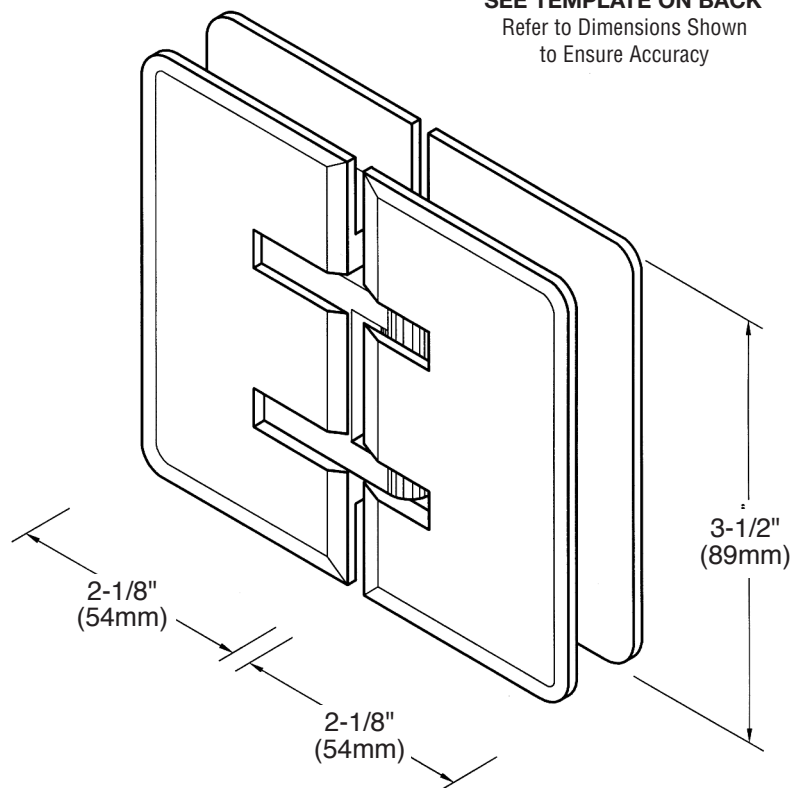
C.R. Laurence Co., Inc.
crlaurence.com

For technical assistance in the United States call toll free (800) 421-6144; from Canada call toll free (877) 421-6144; Outside the U.S. and Canada call (323) 588-1281. Ask for Tech Sales at Extension 7740. Toll free fax (800) 458-7496.



C.R. LAURENCE CO., INC.
PROFESSIONAL QUALITY

*** SEE TEMPLATE ON BACK ***
Refer to Dimensions Shown
to Ensure Accuracy



ESTATE

180° Glass-to-Glass Hinge

CAT. No. EST180

*Maximum Door Capacities	3/8" (10mm) Glass		1/2" (12mm) Glass	
	Weight	Width	Weight	Width
Using 2 Hinges	80 lbs.(36 kg)	28"(711mm)	80 lbs.(36 kg)	26"(660mm)
Using 3 Hinges	120 lbs.(55 kg)	34"(864mm)	120 lbs.(55 kg)	30"(762mm)

***NOTE:** Do not exceed either maximum weight or width when choosing proper quantity of hinges.

Important Information:

The door and fixed panel use the same cutout.

Specifications:

Glass Sizes: 3/8" (10mm) to 1/2" (12mm) thick tempered safety glass

Construction: Solid brass

Closing Type: Self-centering when within 15° of closed position

Cutout Required

Includes: Gaskets, screws and template

Use of Gaskets:

For 3/8"(10mm) Glass: Use one thick gasket on each side

For 1/2"(12mm) Glass: Use one thin gasket on each side

Recommendations:

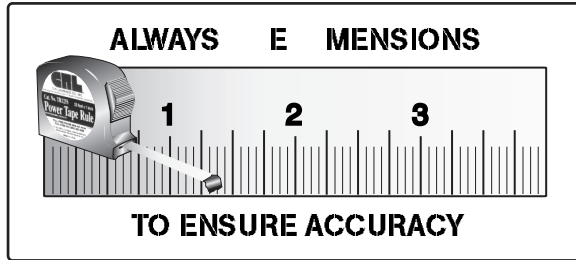
For public safety, we recommend the use of only tempered safety glass.
Do not use power tools when installing these hinges.

Maintenance Guidelines:

- Never use an abrasive cleaner on the hardware. Many of the components are coated with a clear lacquer that will be irreparably damaged if subjected to harsh, abrasive chemicals. Advise your customer that drying the hardware with a clean, soft towel on a daily basis is the best way to maintain the hardware. If mineral deposits build-up, mix a couple of drops of a mild liquid soap (such as Ivory or a similar product) into a cup of warm water. Using a soft, non-abrasive cloth, clean the hardware. Rinse thoroughly with clean, warm water and dry.

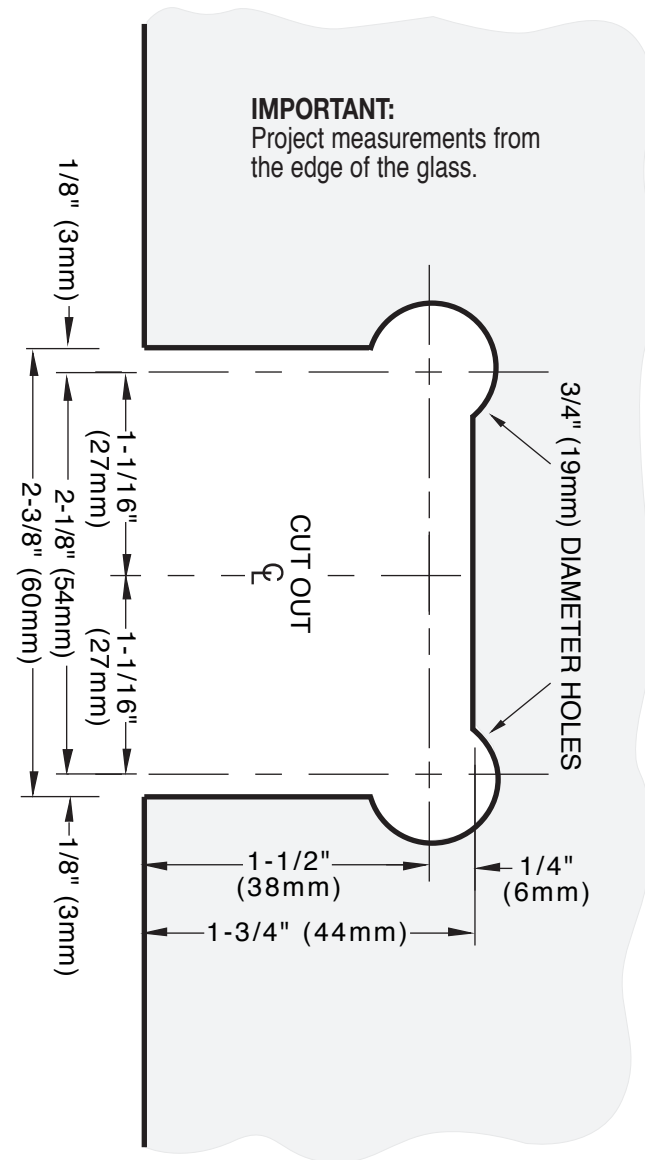


C.R. LAURENCE CO., INC.
 PROFESSIONAL QUALITY



ESTATE

180° Glass-to-Glass Hinge
 CAT No. EST180

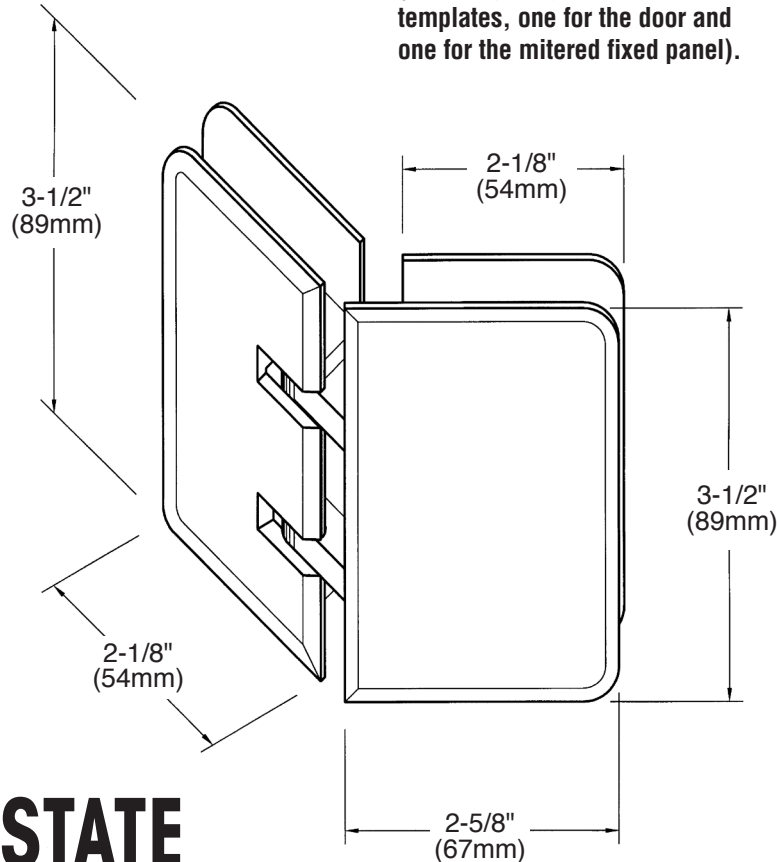


C.R. Laurence Co., Inc. For technical assistance in the United States call toll free (800) 421-6144; from Canada call toll free (877) 421-6144;
 crlaurence.com Outside the U.S. and Canada call (323) 588-1281. Ask for Tech Sales at Extension 7740. Toll free fax (800) 458-7496.



C.R. LAURENCE CO., INC.
PROFESSIONAL QUALITY

(This hinge requires two different templates, one for the door and one for the mitered fixed panel).



Important Information:

The fixed panel measurements must be taken from the outside of the miter.

Specifications:

Glass Sizes: 3/8" (10mm) to 1/2" (12mm) thick tempered safety glass

Construction: Solid brass

Closing Type: Self-centering when within 15° of closed position

Cutout Required

Includes: Gaskets, screws and template

Use of Gaskets:

For 3/8"(10mm) Glass: Use one thick gasket on each side

For 1/2"(12mm) Glass: Use one thin gasket on each side

Recommendations:

For public safety, we recommend the use of only tempered safety glass.

Do not use power tools when installing these hinges.

Maintenance Guidelines:

- Never use an abrasive cleaner on the hardware. Many of the components are coated with a clear lacquer that will be irreparably damaged if subjected to harsh, abrasive chemicals. Advise your customer that drying the hardware with a clean, soft towel on a daily basis is the best way to maintain the hardware. If mineral deposits build-up, mix a couple of drops of a mild liquid soap (such as Ivory or a similar product) into a cup of warm water. Using a soft, non-abrasive cloth, clean the hardware. Rinse thoroughly with clean, warm water and dry.

ESTATE

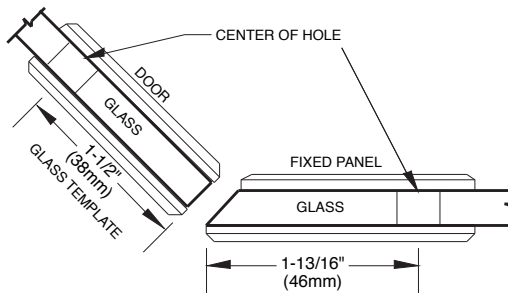
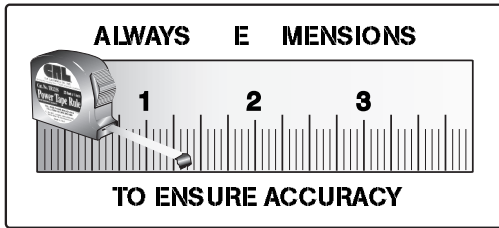
135° Glass-to-Glass Hinge

CAT No. EST135

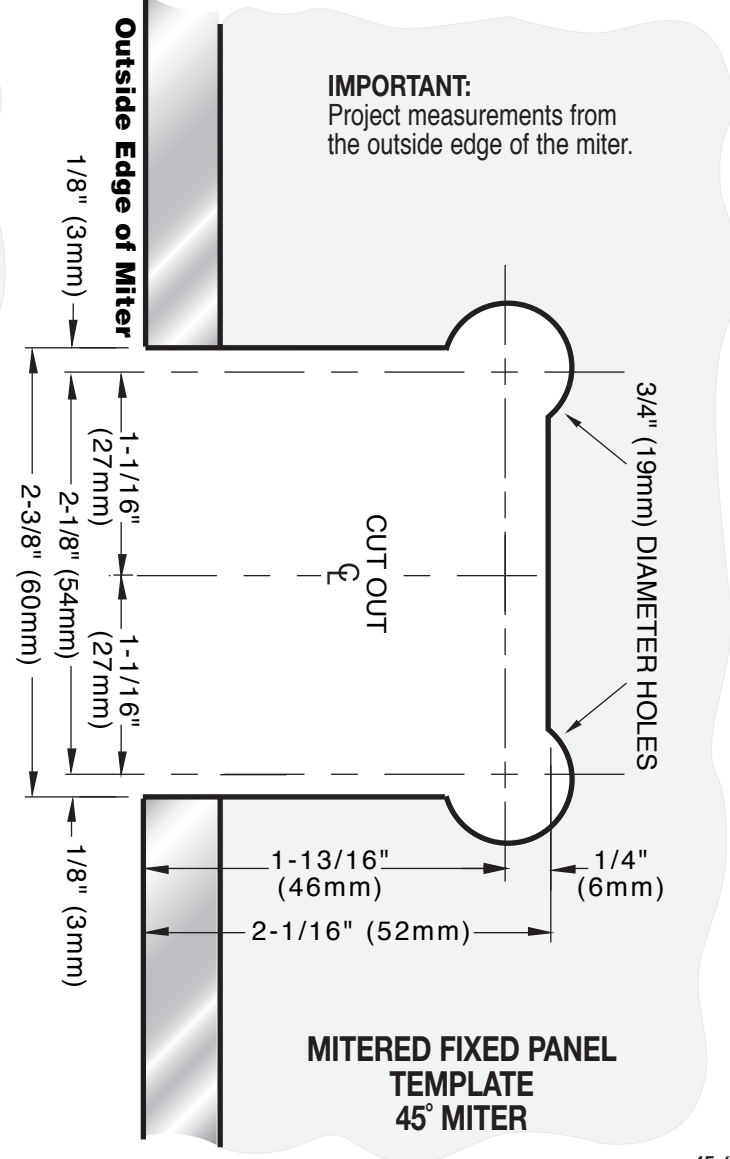
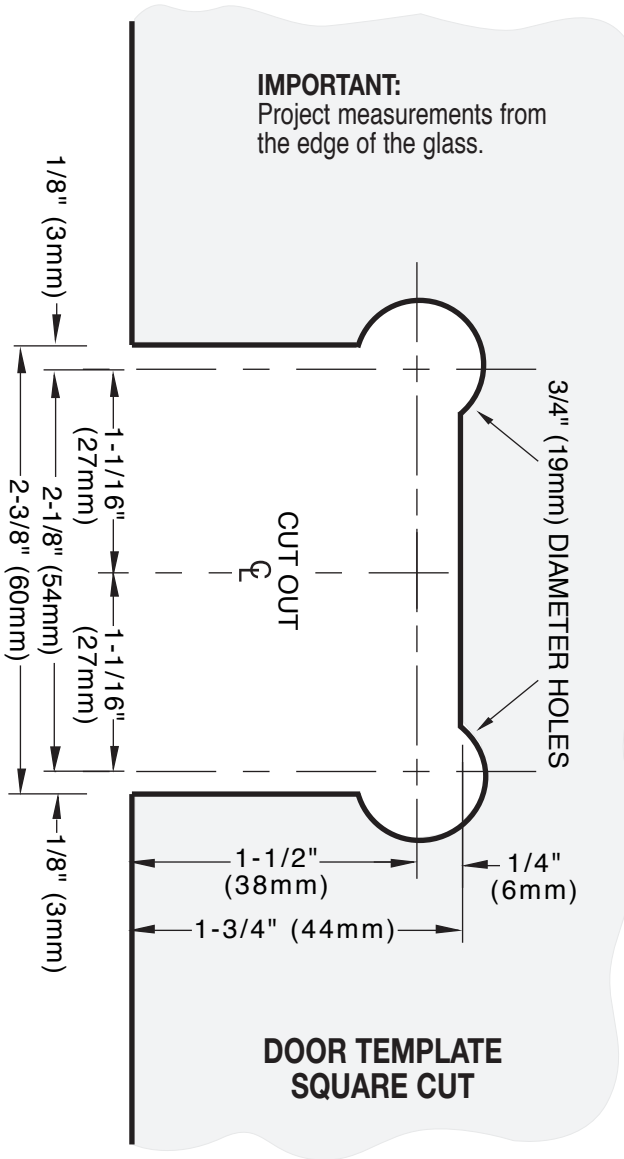
*** SEE TEMPLATE ON BACK ***
Refer to Dimensions Shown
to Ensure Accuracy

* Maximum Door Capacities	3/8" (10mm) Glass		1/2" (12mm) Glass	
	Weight	Width	Weight	Width
Using 2 Hinges	80 lbs.(36 kg)	28"(711mm)	80 lbs.(36 kg)	26"(660mm)
Using 3 Hinges	120 lbs.(55 kg)	34"(864mm)	120 lbs.(55 kg)	30"(762mm)

***NOTE:** Do not exceed either maximum weight or width when choosing proper quantity of hinges.



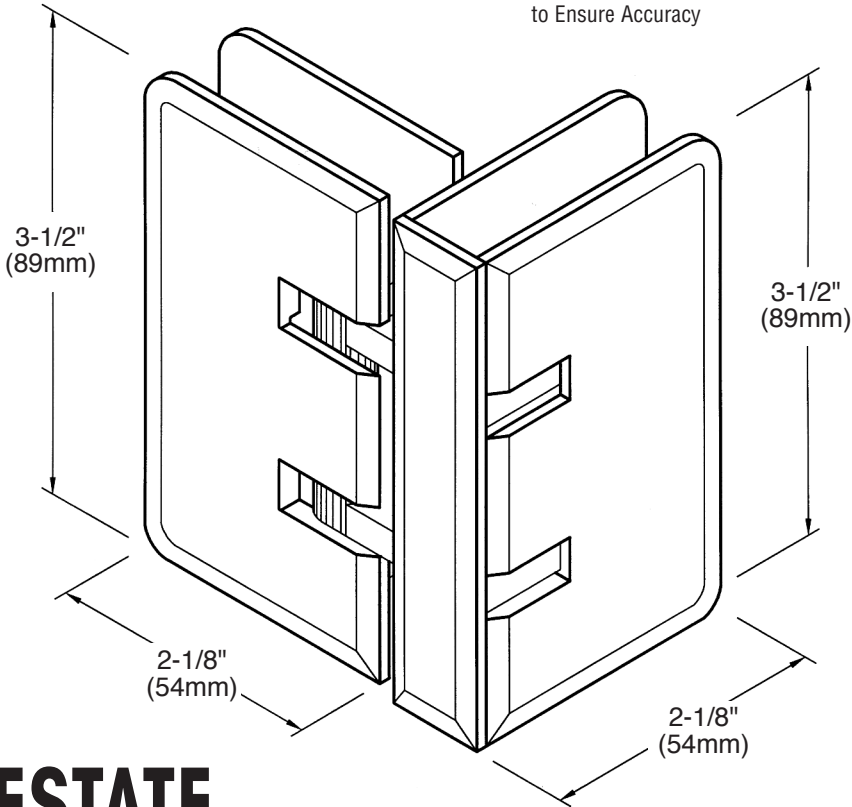
ESTATE
135° Glass-to-Glass Hinge
CAT. No. EST135





C.R. LAURENCE CO., INC.
PROFESSIONAL QUALITY

*** SEE TEMPLATE ON BACK ***
 Refer to Dimensions Shown
 to Ensure Accuracy



ESTATE

90° Glass-to-Glass Hinge

CAT. No. EST090

*Maximum Door Capacities	3/8" (10mm) Glass		1/2" (12mm) Glass	
	Weight	Width	Weight	Width
Using 2 Hinges	80 lbs.(36 kg)	28"(711mm)	80 lbs.(36 kg)	26"(660mm)
Using 3 Hinges	120 lbs.(55 kg)	34"(864mm)	120 lbs.(55 kg)	30"(762mm)

***NOTE:** Do not exceed either maximum weight or width when choosing proper quantity of hinges.

Important Information:

The door and fixed panel use the same cutout.

Specifications:

Glass Sizes: 3/8" (10mm) to 1/2" (12mm) thick tempered safety glass

Construction: Solid brass

Closing Type: Self-centering when within 15° of closed position

Cutout Required

Includes: Gaskets, screws and template

Use of Gaskets:

For 3/8"(10mm) Glass: Use one thick gasket on each side

For 1/2"(12mm) Glass: Use one thin gasket on each side

Recommendations:

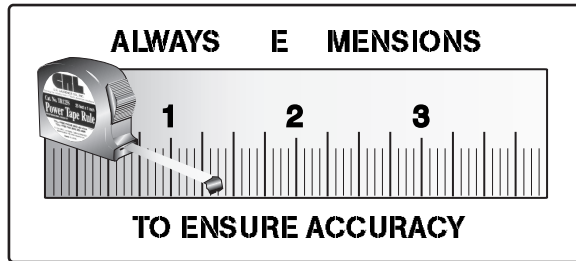
For public safety, we recommend the use of only tempered safety glass. Do not use power tools when installing these hinges.

Maintenance Guidelines:

- Never use an abrasive cleaner on the hardware. Many of the components are coated with a clear lacquer that will be irreparably damaged if subjected to harsh, abrasive chemicals. Advise your customer that drying the hardware with a clean, soft towel on a daily basis is the best way to maintain the hardware. If mineral deposits build-up, mix a couple of drops of a mild liquid soap (such as Ivory or a similar product) into a cup of warm water. Using a soft, non-abrasive cloth, clean the hardware. Rinse thoroughly with clean, warm water and dry.



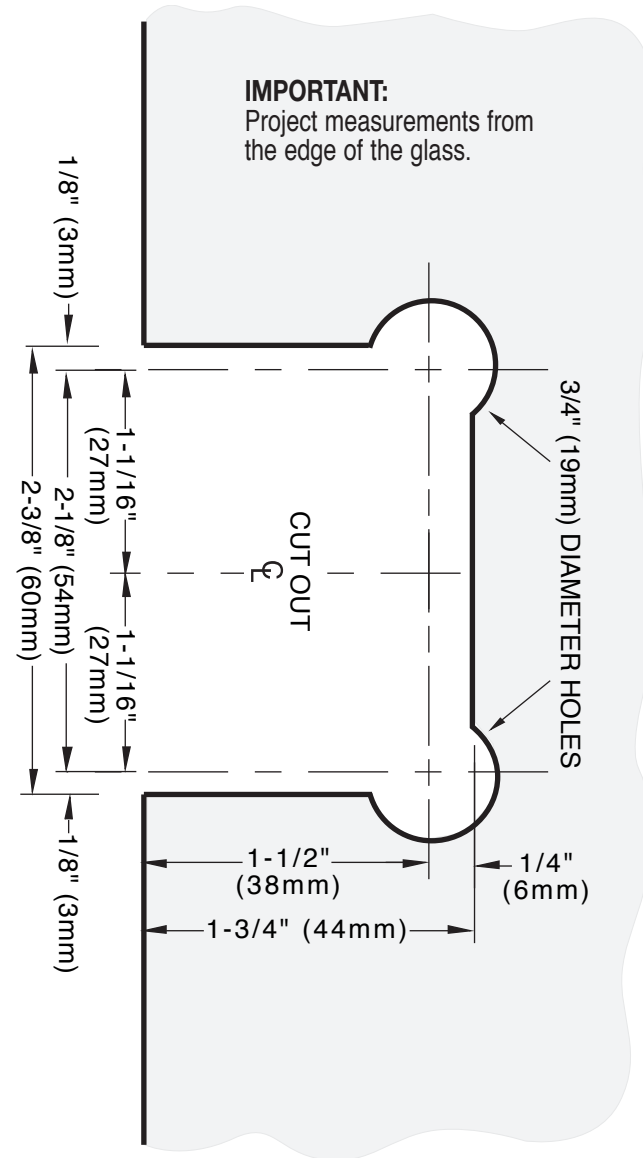
C.R. LAURENCE CO., INC.
PROFESSIONAL QUALITY



ESTATE

90° Glass-to-Glass Hinge

CAT No. EST090



C.R. Laurence Co., Inc.
crlaurence.com

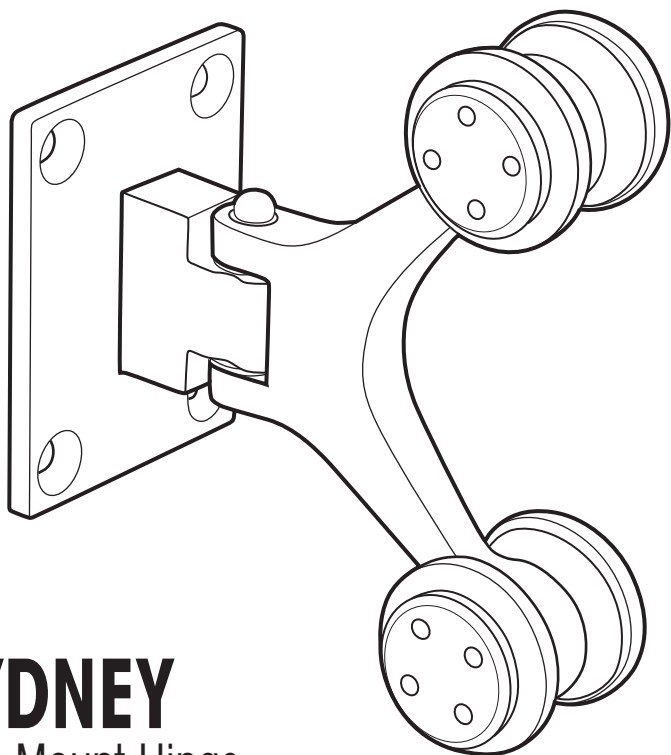
For technical assistance in the United States call toll free (800) 421-6144; from Canada call toll free (877) 421-6144; Outside the U.S. and Canada call (323) 588-1281. Ask for Tech Sales at Extension 7740. Toll free fax (800) 458-7496.

© Copyright 2005, C.R. Laurence Co., Inc_SDT21_U5



C.R. LAURENCE CO., INC.
PROFESSIONAL QUALITY

*** SEE TEMPLATE ON BACK ***
 Refer to Dimensions Shown
 to Ensure Accuracy



SYDNEY

Wall Mount Hinge

CAT. No. SYD044

*Maximum Door Capacities	5/16" (8mm) Glass		3/8" (10mm) Glass	
	Weight	Width	Weight	Width
Using 2 Hinges	80 lbs.(36 kg)	28"(711mm)	80 lbs.(36 kg)	28"(711mm)
Using 3 Hinges	120 lbs.(54 kg)	34"(864mm)	120 lbs.(54 kg)	34"(864mm)

***NOTE:** Do not exceed either maximum weight or width when choosing proper quantity of hinges.

Specifications:

Glass Sizes: 5/16" (8mm) to 3/8" (10mm) thick tempered safety glass
Construction: 316 Stainless Steel
Closing Type: Precise closing to 0°
Holes Required: Two 5/8" (16mm) diameter holes required per panel per hinge
Includes: Gaskets, screws and template

Use of Gaskets:

For 5/16"(8mm) Glass: Use one gasket on each side
For 3/8"(10mm) Glass: Use one gasket on each side

Recommendations:

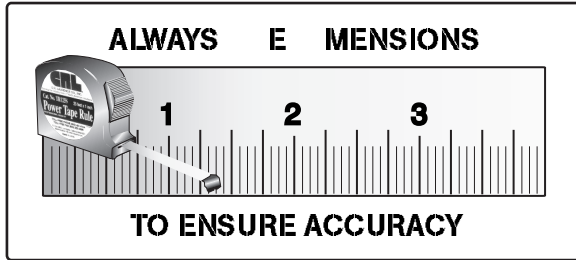
For public safety, we recommend the use of only tempered safety glass. Do not use power tools when installing these hinges. A spanner wrench is required to tighten these hinges. We recommend Catalog Number SW19 (not included).

Maintenance Guidelines:

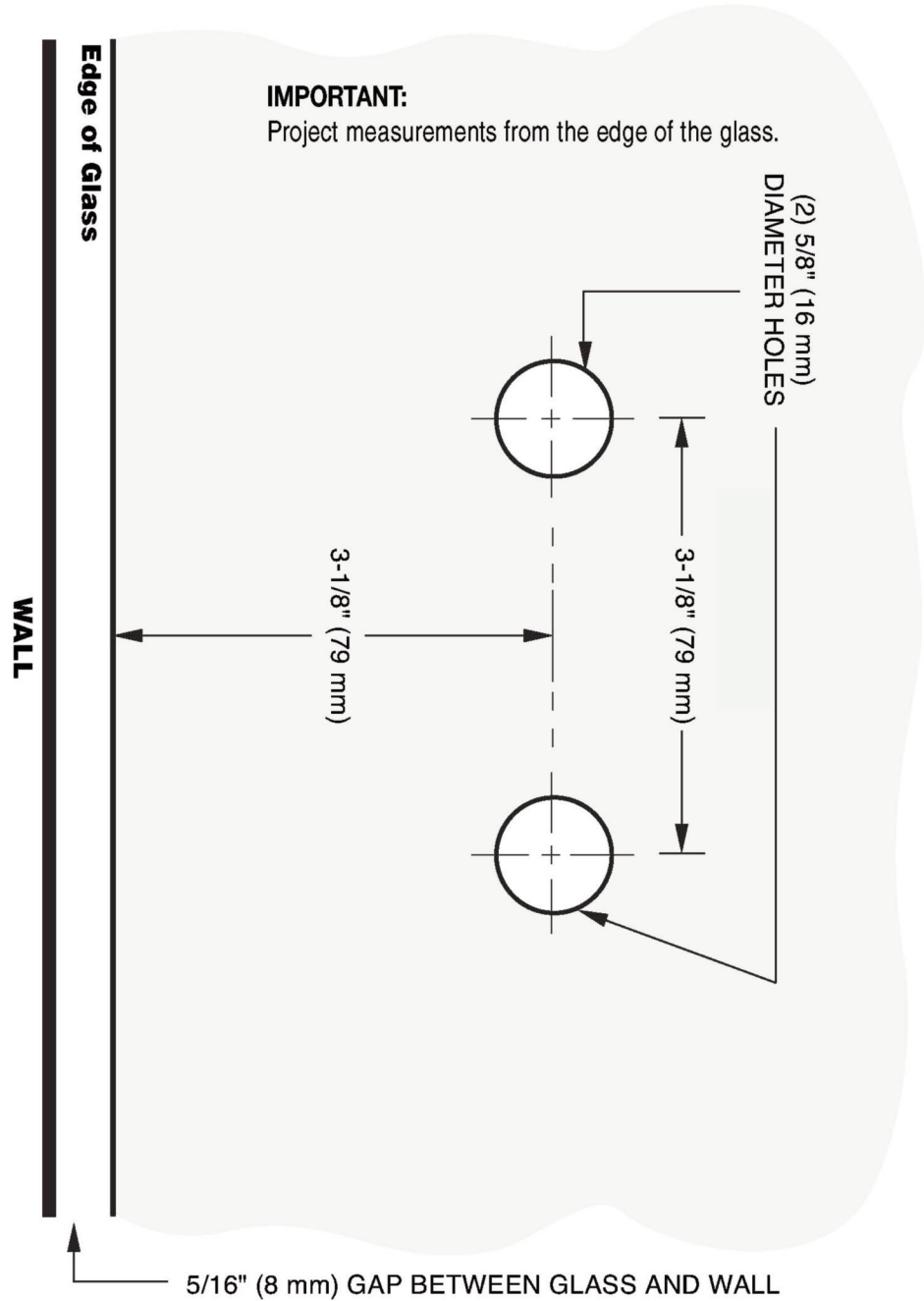
- Never use an abrasive cleaner on the hardware. Many of the components are coated with a clear lacquer that will be irreparably damaged if subjected to harsh, abrasive chemicals. Advise your customer that drying the hardware with a clean, soft towel on a daily basis is the best way to maintain the hardware. If mineral deposits build-up, mix a couple of drops of a mild liquid soap (such as Ivory or a similar product) into a cup of warm water. Using a soft, non-abrasive cloth, clean the hardware. Rinse thoroughly with clean, warm water and dry.



C.R. LAURENCE CO., INC.
PROFESSIONAL QUALITY



SYDNEY
 Wall Mount Hinge
 CAT. No. SYD044



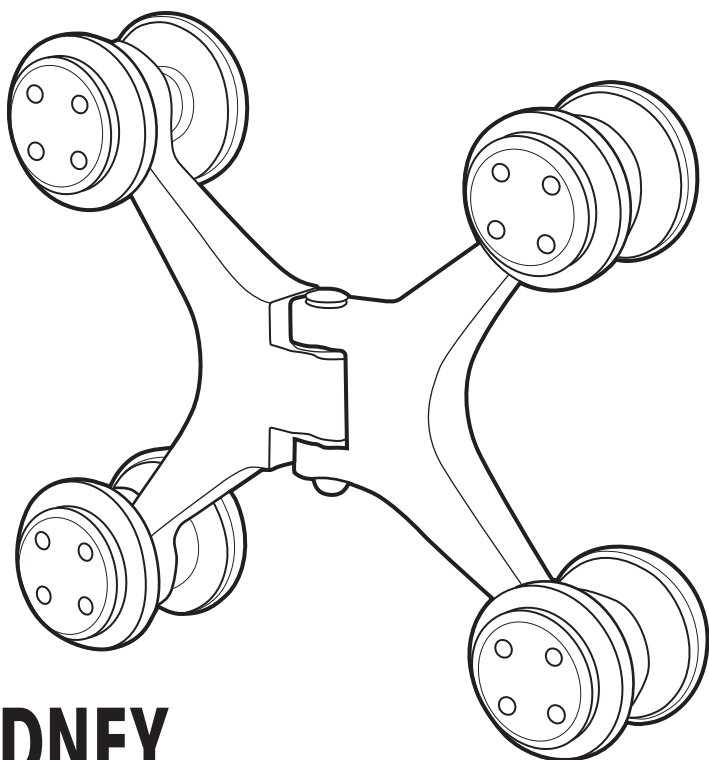
C.R. Laurence Co., Inc.
 crlaurence.com

For technical assistance in the United States call toll free (800) 421-6144; from Canada call toll free (877) 421-6144; Outside the U.S. and Canada call (323) 588-1281. Ask for Tech Sales at Extension 7740. Toll free fax (800) 458-7496.



C.R. LAURENCE CO., INC.
PROFESSIONAL QUALITY

*** SEE TEMPLATE ON BACK ***
 Refer to Dimensions Shown
 to Ensure Accuracy



SYDNEY

180° Glass-to-Glass Hinge

CAT. No. SYD180

*Maximum Door Capacities	5/16" (8mm) Glass		3/8" (10mm) Glass	
	Weight	Width	Weight	Width
Using 2 Hinges	80 lbs.(36 kg)	28"(711mm)	80 lbs.(36 kg)	28"(711mm)
Using 3 Hinges	120 lbs.(54 kg)	34"(864mm)	120 lbs.(54 kg)	34"(864mm)

***NOTE:** Do not exceed either maximum weight or width when choosing proper quantity of hinges.

Specifications:

Glass Sizes: 5/16" (8mm) to 3/8" (10mm) thick tempered safety glass

Construction: 316 Stainless Steel

Closing Type: Precise closing to 0°

Holes Required: Two 5/8" (16mm) diameter holes required per panel per hinge

Includes: Gaskets, screws and template

Use of Gaskets:

For 5/16"(8mm) Glass: Use one gasket on each side

For 3/8"(10mm) Glass: Use one gasket on each side

Recommendations:

For public safety, we recommend the use of only tempered safety glass. Do not use power tools when installing these hinges. A spanner wrench is required to tighten these hinges. We recommend Catalog Number SW19 (not included).

Maintenance Guidelines:

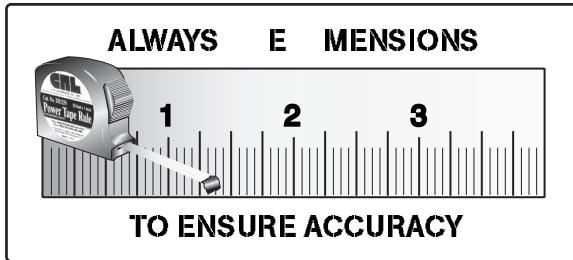
- Never use an abrasive cleaner on the hardware. Many of the components are coated with a clear lacquer that will be irreparably damaged if subjected to harsh, abrasive chemicals. Advise your customer that drying the hardware with a clean, soft towel on a daily basis is the best way to maintain the hardware. If mineral deposits build-up, mix a couple of drops of a mild liquid soap (such as Ivory or a similar product) into a cup of warm water. Using a soft, non-abrasive cloth, clean the hardware. Rinse thoroughly with clean, warm water and dry.



C.R. LAURENCE CO., INC.
PROFESSIONAL QUALITY

IMPORTANT:

Project measurements from the edge of the glass.



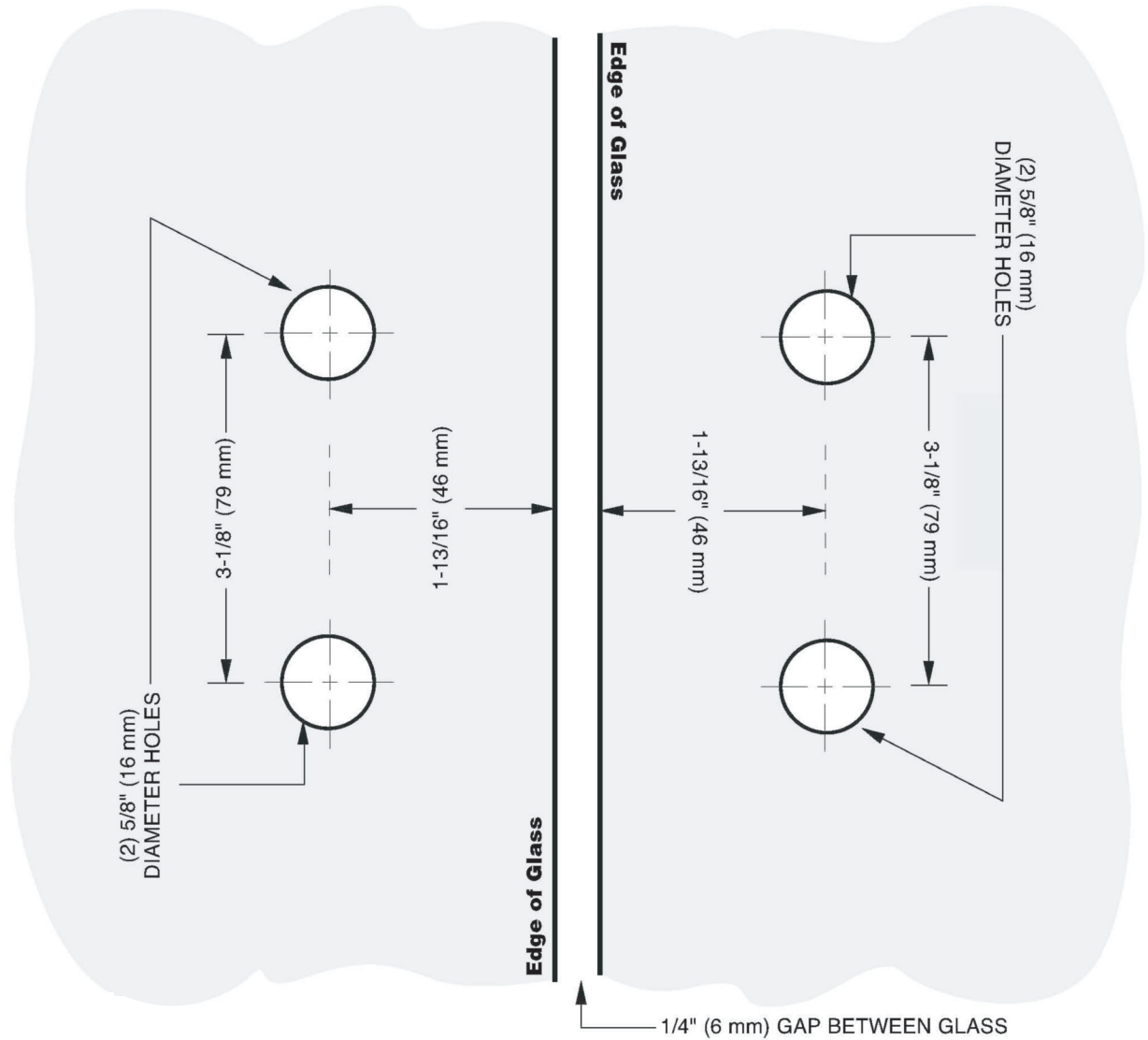
Important Information:

Changing the angle alters the location of the holes to be drilled in the glass! Before fabricating the glass to any other angle than what's shown, consult with C.R. Laurence's Technical Sales Department: In the United States call (800) 421-6144; from Canada call (877) 421-6144; Outside the U.S. and Canada call (323) 588-1281. Ask for extension 7740.

SYDNEY

180° Glass-to-Glass Hinge

CAT. No. SYD180



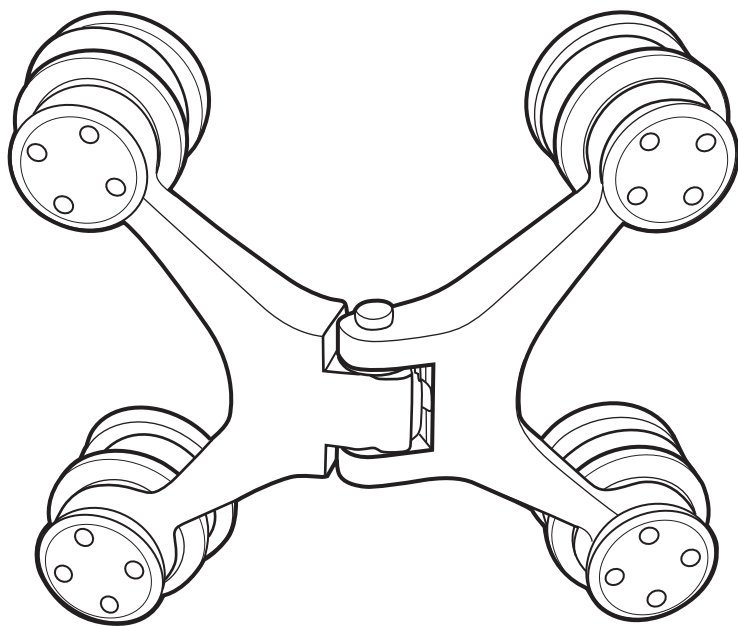
C.R. Laurence Co., Inc.
 crlaurence.com

For technical assistance in the United States call toll free (800) 421-6144; from Canada call toll free (877) 421-6144; Outside the U.S. and Canada call (323) 588-1281. Ask for Tech Sales at Extension 7740. Toll free fax (800) 587-7501.



C.R. LAURENCE CO., INC.
PROFESSIONAL QUALITY

*** SEE TEMPLATE ON BACK ***
 Refer to Dimensions Shown
 to Ensure Accuracy



Specifications:

Glass Sizes: 5/16" (8mm) to 3/8" (10mm) thick tempered safety glass
Construction: 316 Stainless Steel
Closing Type: Outswing only - non self-centering.
Holes Required: Two 5/8" (16mm) diameter holes required per panel per hinge
Includes: Gaskets, screws and template

Use of Gaskets:

For 5/16"(8mm) Glass: Use one gasket on each side
For 3/8"(10mm) Glass: Use one gasket on each side

Recommendations:

For public safety, we recommend the use of only tempered safety glass.
 Do not use power tools when installing these hinges.

A spanner wrench is required to tighten these hinges.
 We recommend **Catalog Number SW19** (not included).

Maintenance Guidelines:

- Never use an abrasive cleaner on the hardware. Many of the components are coated with a clear lacquer that will be irreparably damaged if subjected to harsh, abrasive chemicals. Advise your customer that drying the hardware with a clean, soft towel on a daily basis is the best way to maintain the hardware. If mineral deposits build-up, mix a couple of drops of a mild liquid soap (such as Ivory or a similar product) into a cup of warm water. Using a soft, non-abrasive cloth, clean the hardware. Rinse thoroughly with clean, warm water and dry.

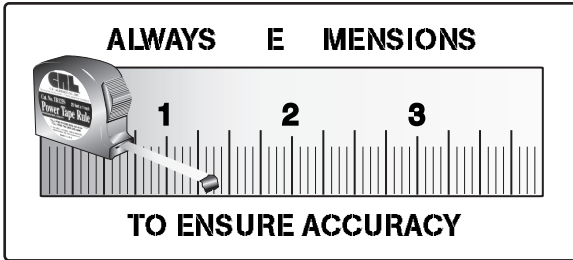
SYDNEY

Glass-to-Glass Hinge (135° Application)

CAT. No. SYD180

*Maximum Door Capacities	5/16" (8mm) Glass		3/8" (10mm) Glass	
	Weight	Width	Weight	Width
Using 2 Hinges	80 lbs.(36 kg)	28"(711mm)	80 lbs.(36 kg)	28"(711mm)
Using 3 Hinges	120 lbs.(54 kg)	34"(864mm)	120 lbs.(54 kg)	34"(864mm)

***NOTE:** Do not exceed either maximum weight or width when choosing proper quantity of hinges.



Important Information:

Changing the angle alters the location of the holes to be drilled in the glass! Before fabricating the glass to any other angle than what's shown, consult with C.R. Laurence's Technical Sales Department: In the United States call (800) 421-6144; from Canada call (877) 421-6144; Outside the U.S. and Canada call (323) 588-1281. Ask for extension 7740.

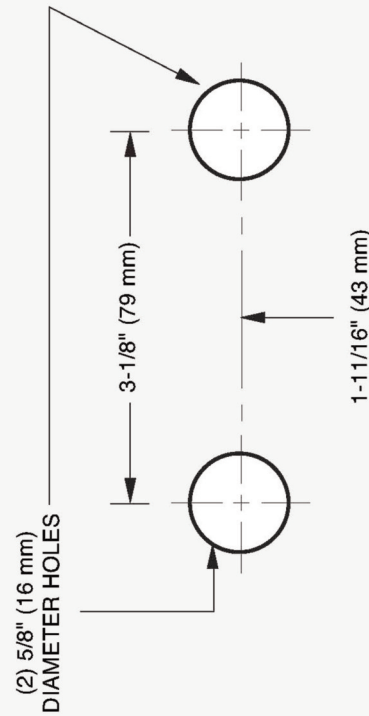
SYDNEY

Glass-to-Glass Hinge (135° Application)

CAT. No. SYD180

IMPORTANT:

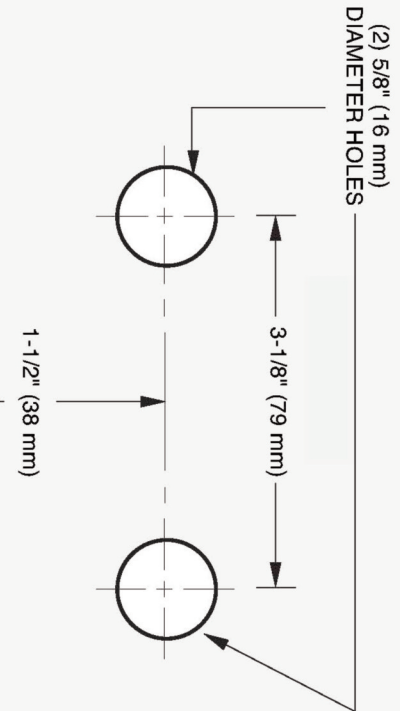
Project measurements from outside edge of miter.



Mitered Fixed Panel
 Template only - 45° Miter

IMPORTANT:

Project measurements from the edge of the glass.

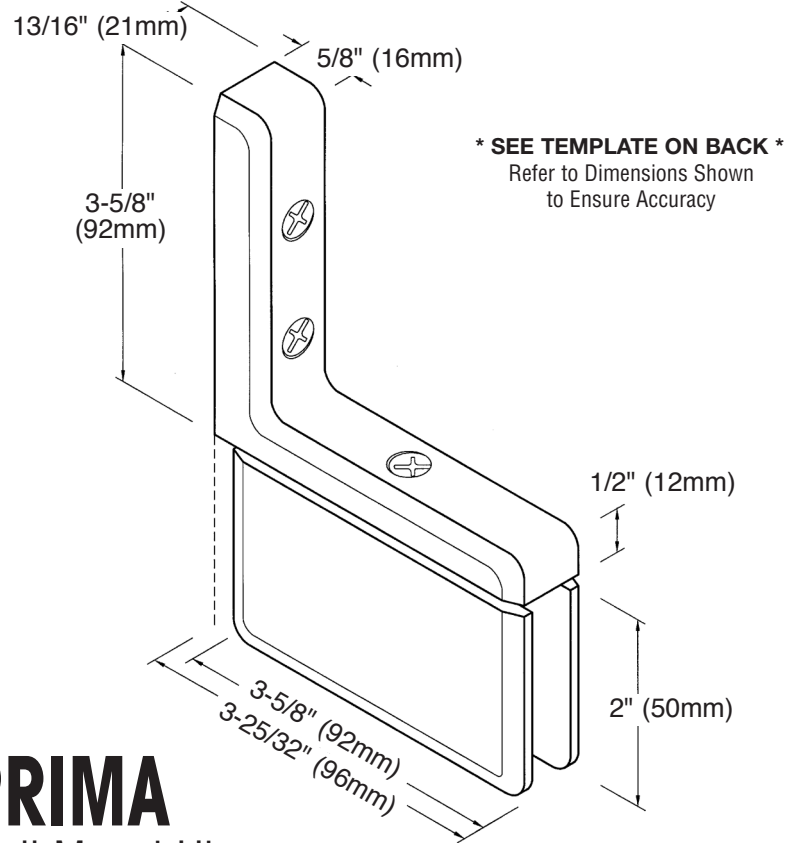


Door Glass Template

3/16" (5 mm) GAP BETWEEN GLASS



C.R. LAURENCE CO., INC.
PROFESSIONAL QUALITY



PRIMA

Wall Mount Hinge

Cat. No. PPH03

Edge Mount Preferred Method (Even with top of door)Page 4G-16
Edge Mount Alternate Method (Even with top of door)Page 4G-17

*Maximum Door Capacities	5/16" (10mm) Glass		3/8" (10mm) Glass	
	Weight	Width	Weight	Width
Using 2 Hinges	100 lbs.(46 kg)	31"(787mm)	100 lbs.(46 kg)	31"(787mm)

***NOTE:** Do not exceed either maximum weight or width when choosing proper quantity of hinges.

Important Information:

Template Options: The Prima Wall Mount PPH03 Hinge offers two template options, depending upon the capabilities of the temperer (see lower left of this page). The Preferred Method allows a full vertical seal along the hinge side, the Alternate Method leaves a short leg of glass, thus not allowing a full length vertical seal.

Optional Pivot Pins: Optional 5° Pivot Pins (Cat. No. P1VP1N) are sold as a set, one pin for the top hinge and one pin for the bottom hinge. These 5° offset Pivot Pins allow the installer to adjust the closing position of the door 5° inwards or outwards.

Specifications:

Glass Sizes: 5/16" (8mm) to 3/8" (10mm) thick tempered safety glass
Construction: Solid brass
Closing Type: Self-centering when within 15° of closed position
Cutout Required
Includes: Gaskets, screws and template

Use of Gaskets:

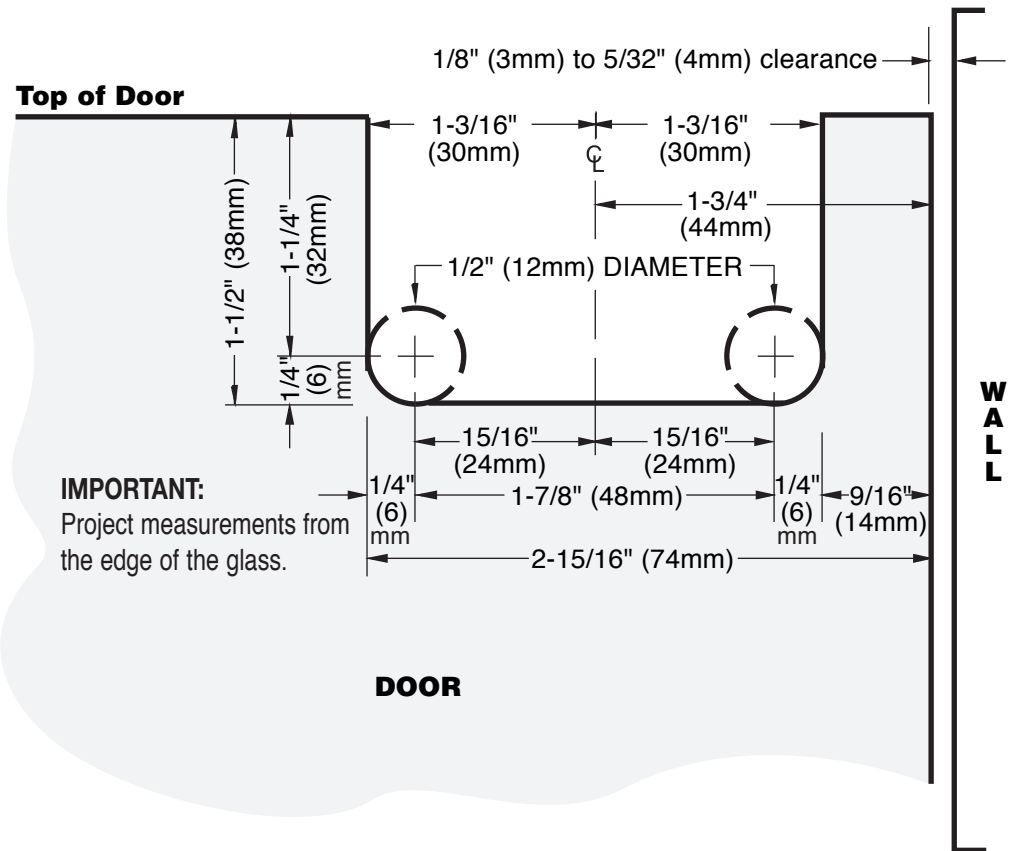
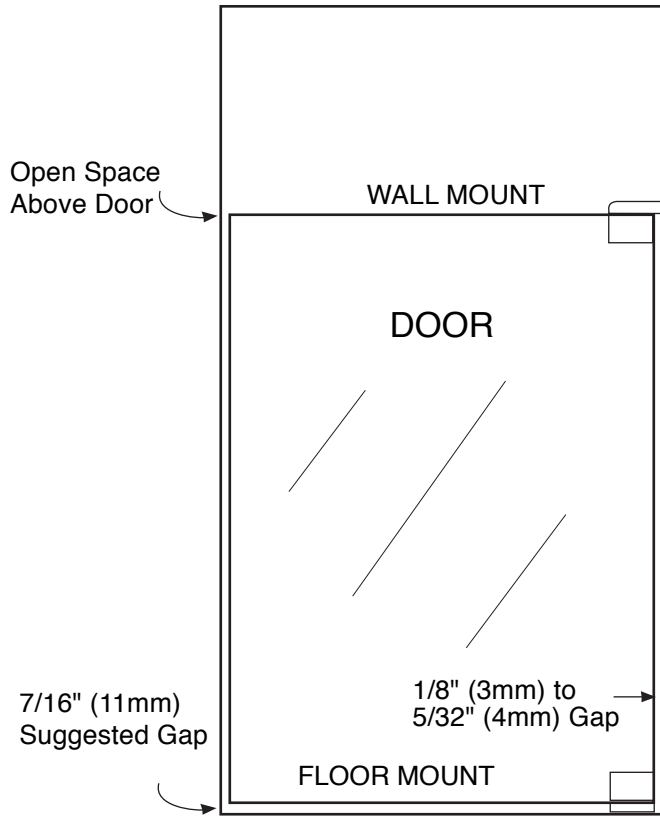
For 5/16"(8mm) Glass: Use one thick gasket and one thin gasket on each side
For 3/8"(10mm) Glass: Use one thick gasket on each side

Recommendations:

For public safety, we recommend the use of only tempered safety glass.
Do not use power tools when installing these hinges.

Maintenance Guidelines:

- Never use an abrasive cleaner on the hardware. Many of the components are coated with a clear lacquer that will be irreparably damaged if subjected to harsh, abrasive chemicals. Advise your customer that drying the hardware with a clean, soft towel on a daily basis is the best way to maintain the hardware. If mineral deposits build-up, mix a couple of drops of a mild liquid soap (such as Ivory or a similar product) into a cup of warm water. Using a soft, non-abrasive cloth, clean the hardware. Rinse thoroughly with clean, warm water and dry.



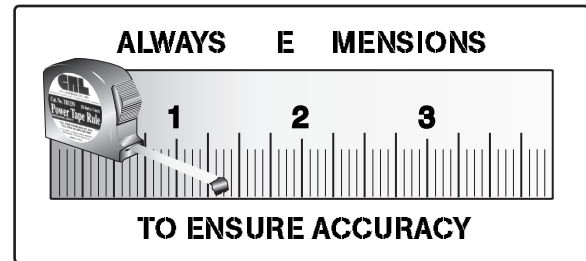
IMPORTANT:
Project measurements from the edge of the glass.

PRIMA

Wall Mount Hinge

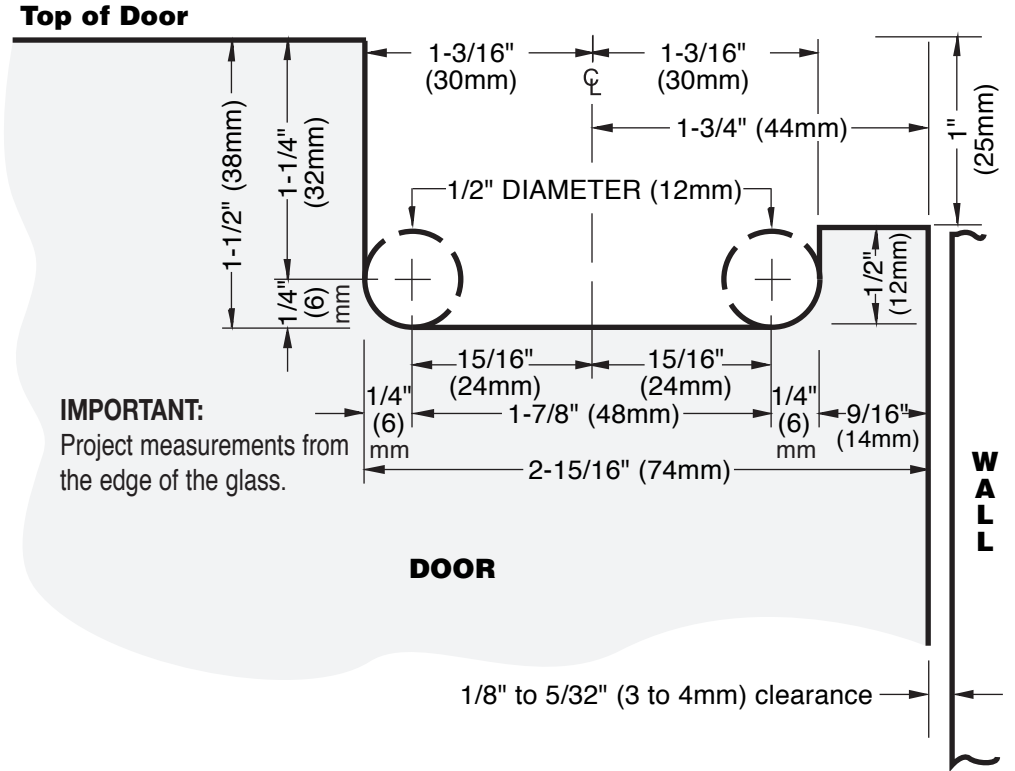
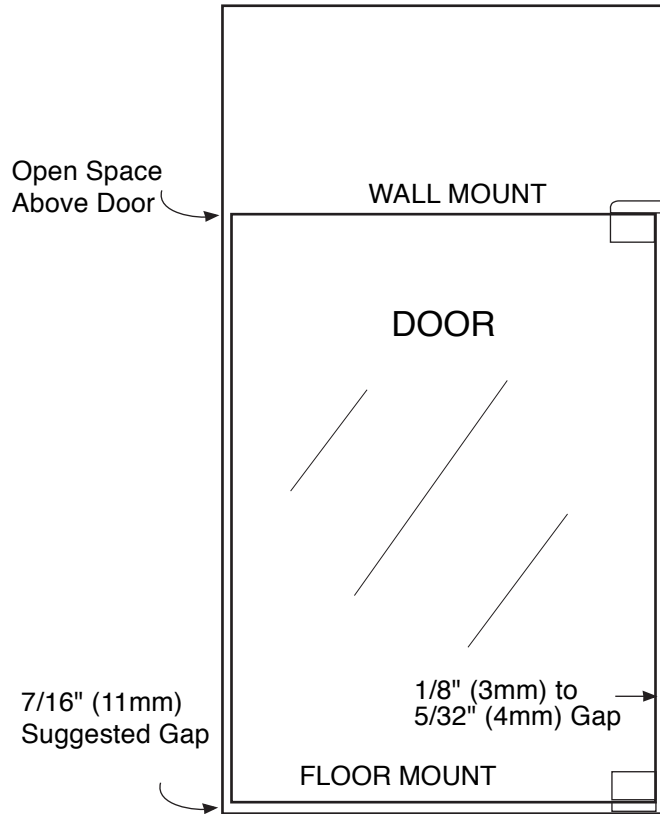
Cat. No. PPH03

Wall Mount Preferred Method (Even with top of door)





C.R. LAURENCE CO., INC.
PROFESSIONAL QUALITY

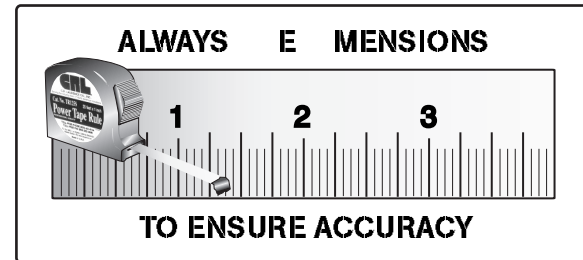


PRIMA

Wall Mount Hinge

Cat. No. PPH03

Wall Mount Alternate Method (Even with top of door)

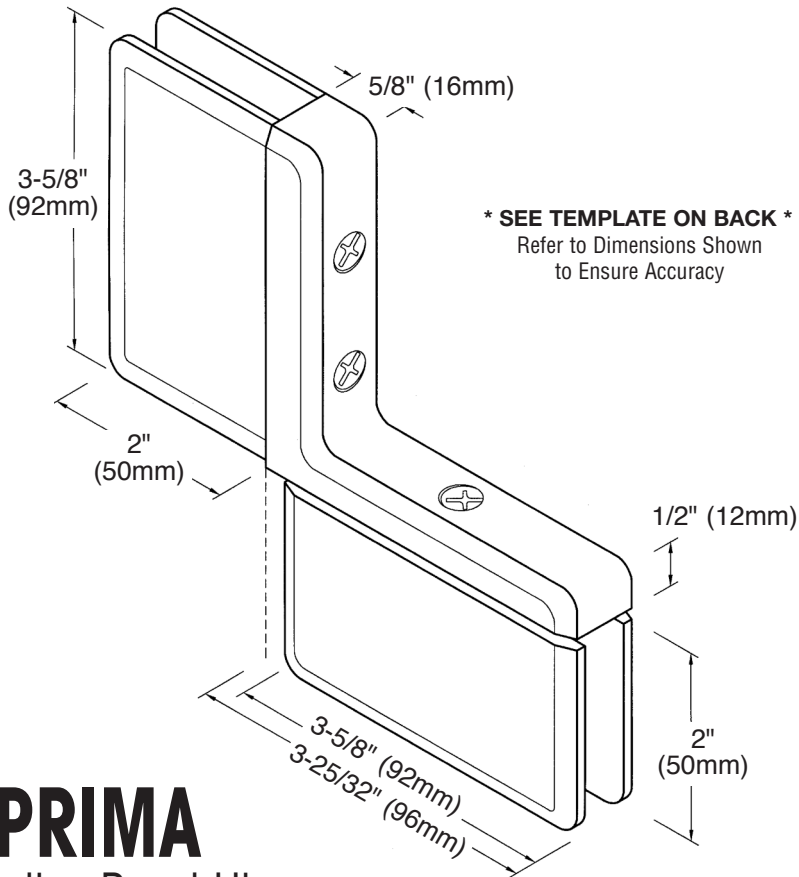




C.R. Laurence Company has established a Technical Sales Department to assist our customers. If you have any questions concerning shower door hardware or any product from CRL, please contact us at:
(800) 421-6144 in the U.S.,
or (877) 421-6144 from Canada,
and ask for Extension 7740



C.R. LAURENCE CO., INC.
PROFESSIONAL QUALITY



*** SEE TEMPLATE ON BACK ***
 Refer to Dimensions Shown
 to Ensure Accuracy

PRIMA

Inline Panel Hinge

Cat. No. PPH04

Edge Mount Preferred Method (Even with top of door)Page 4G-20
 Edge Mount Alternate Method (Even with top of door)Page 4G-21

*Maximum Door Capacities	5/16" (8mm) Glass		3/8" (10mm) Glass	
	Weight	Width	Weight	Width
Using 2 Hinges	100 lbs.(46 kg)	31"(787mm)	100 lbs.(46 kg)	31"(787mm)

***NOTE:** Do not exceed either maximum weight or width when choosing proper quantity of hinges.

Important Information:

Template Options: The Prima Inline Panel PPH04 Hinge offers two template options, depending upon the capabilities of the temperer (see lower left of this page). The Preferred Method allows a full vertical seal along the hinge side, the Alternate Method leaves a short leg of glass, thus not allowing a full length vertical seal.

Optional Pivot Pins: Optional 5 degree Pivot Pins (cat. no. P1VP1N) may be purchased separately. The P1VP1N is sold as a set, one pin for the top hinge and one pin for the bottom hinge. These 5° offset Pivot Pins allow the installer to adjust the closing position of the door 5° inwards or outwards.

Specifications:

- Glass Sizes:** 5/16" (8mm) to 3/8" (10mm) thick tempered safety glass
- Construction:** Solid brass
- Closing Type:** Self-centering when within 15° of closed position
- Cutout Required**
- Includes:** Gaskets, screws and template

Use of Gaskets:

- For 5/16"(8mm) Glass:** Use one thick gasket and one thin gasket on each side
- For 3/8"(10mm) Glass:** Use one thick gasket on each side

Recommendations:

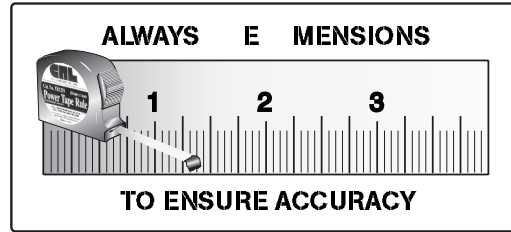
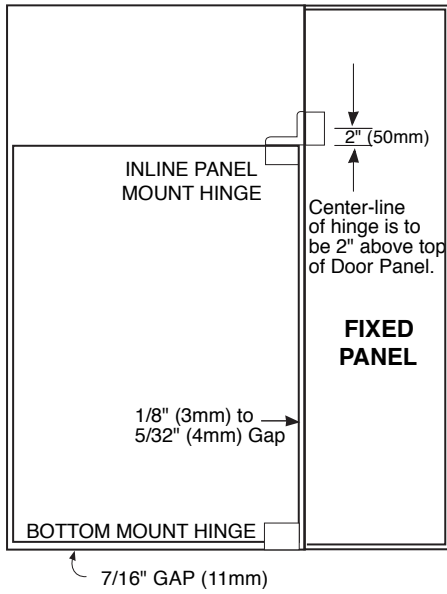
For public safety, we recommend the use of only tempered safety glass. Do not use power tools when installing these hinges.

Maintenance Guidelines:

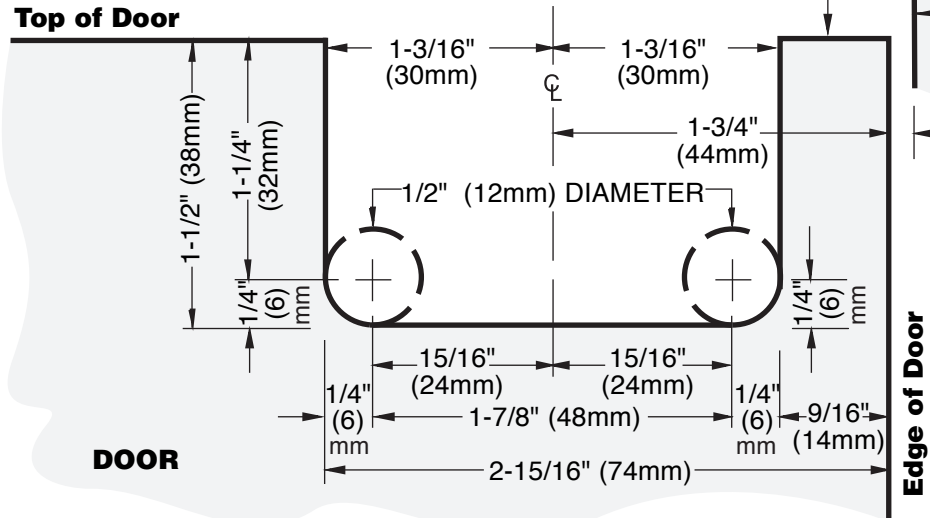
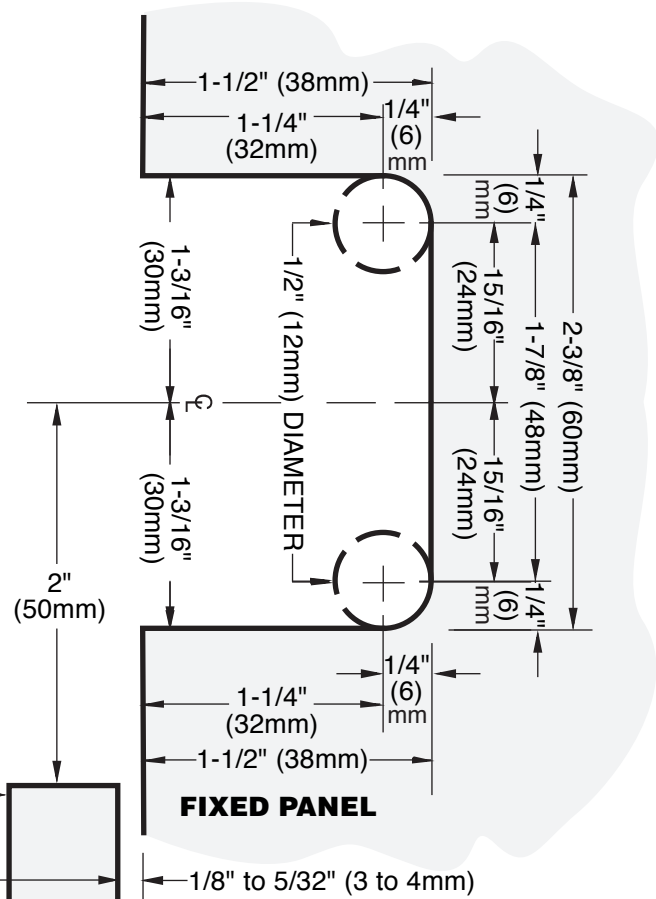
- Never use an abrasive cleaner on the hardware. Many of the components are coated with a clear lacquer that will be irreparably damaged if subjected to harsh, abrasive chemicals. Advise your customer that drying the hardware with a clean, soft towel on a daily basis is the best way to maintain the hardware. If mineral deposits build-up, mix a couple of drops of a mild liquid soap (such as Ivory or a similar product) into a cup of warm water. Using a soft, non-abrasive cloth, clean the hardware. Rinse thoroughly with clean, warm water and dry.



FRONT ELEVATION



IMPORTANT:
Project measurements from the edge of the glass.



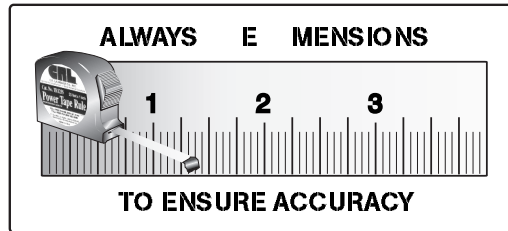
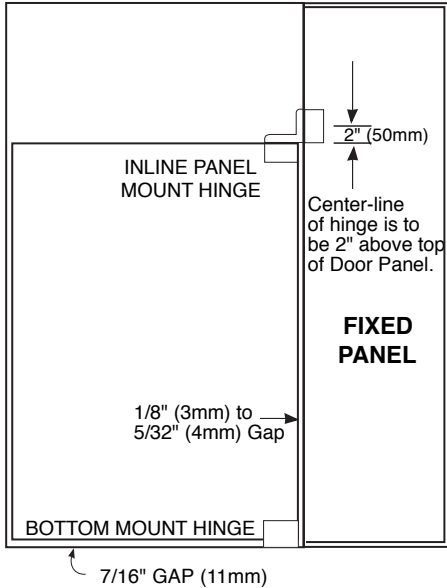
PRIMA
Inline Panel Hinge
Cat. No. PPH04

Preferred Method (Even with top of door)

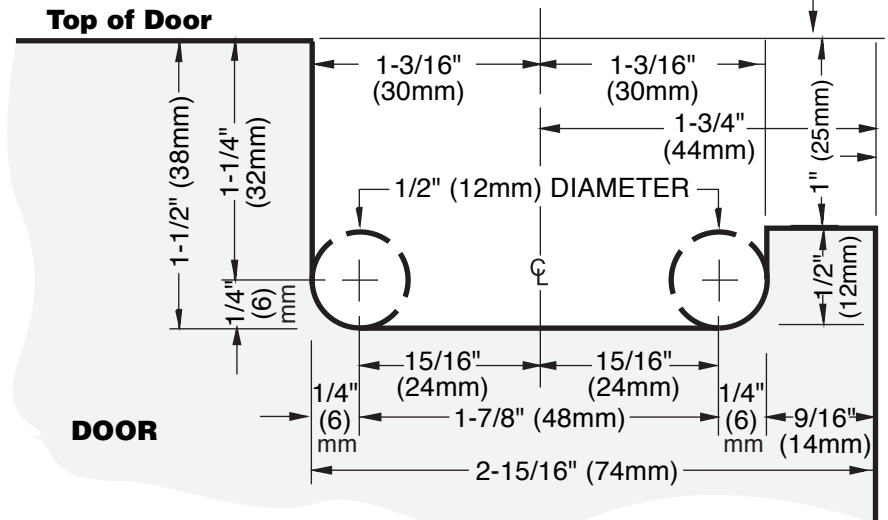
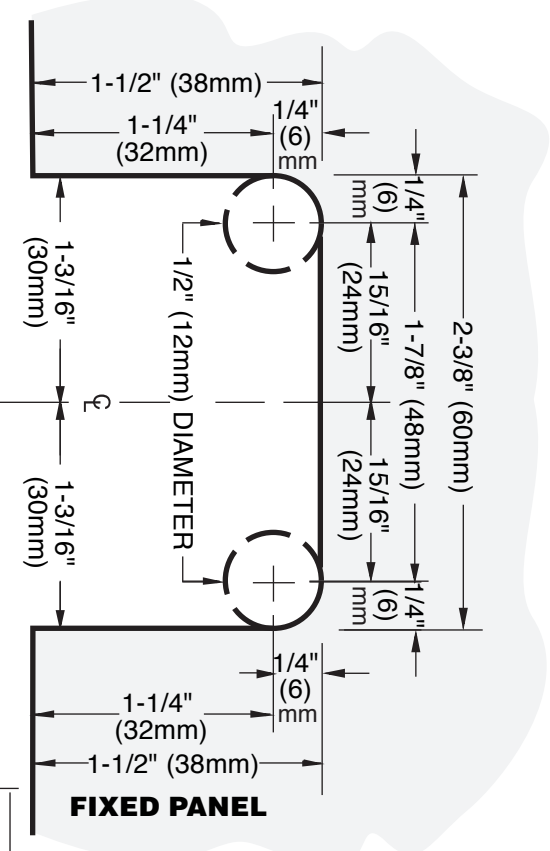


C.R. LAURENCE CO., INC.
PROFESSIONAL QUALITY

FRONT ELEVATION



IMPORTANT:
Project measurements from the edge of the glass.



PRIMA
Inline Panel Hinge
CAT. No. PPH04

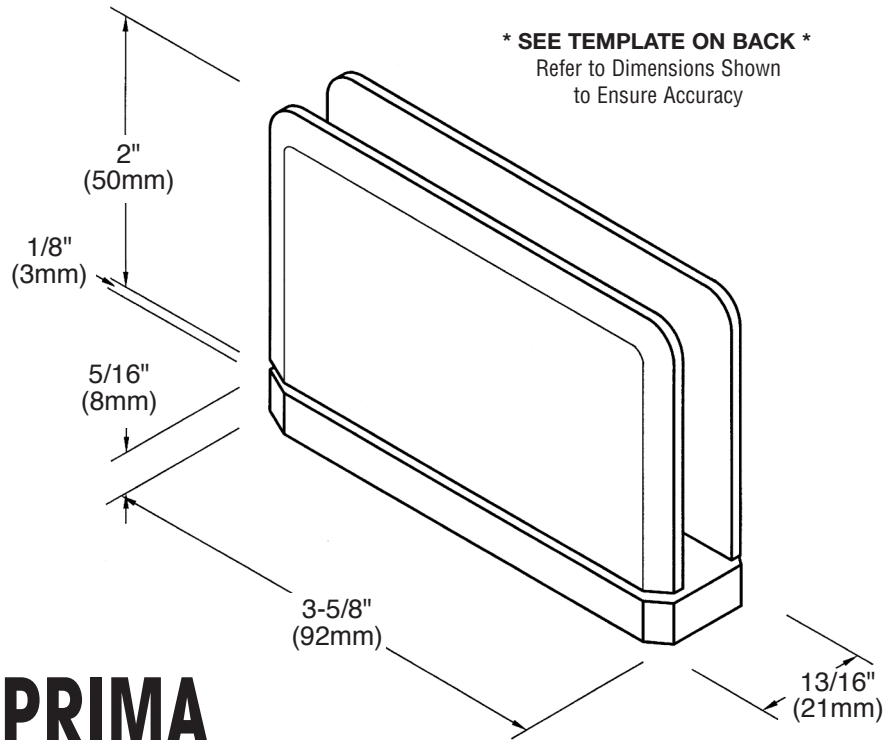
Alternate Method (Even with top of door)



C.R. Laurence Company has established a Technical Sales Department to assist our customers. If you have any questions concerning shower door hardware or any product from CRL, please contact us at:
(800) 421-6144 in the U.S.,
or (877) 421-6144 from Canada,
and ask for Extension 7740



C.R. LAURENCE CO., INC.
PROFESSIONAL QUALITY



PRIMA

Top or Bottom Mount Hinge

CAT. No. PPH01

Edge Mount Preferred Method	7/16" (11mm) Clearance	Page 4G-2
Edge Mount Alternate Method	7/16" (11mm) Clearance	Page 4G-3
Edge Mount Alternate Method	1/8" (3mm) Clearance	Page 4G-4
Edge Mount Alternate Method	3/16" (5mm) Clearance	Page 4G-5
Inset Mount Method	7/16" (11mm) Clearance	Page 4G-6
Transom Mount Method	3/16" (5mm) Clearance	Page 4G-7

* Maximum Door Capacities	5/16" (8mm) Glass		3/8" (10mm) Glass	
	Weight	Width	Weight	Width
Using 2 Hinges	100 lbs.(46 kg)	31"(787mm)	100 lbs.(46 kg)	31"(787mm)

*NOTE: Do not exceed either maximum weight or width when choosing proper quantity of hinges.

Important Information:

Template Options: The Top or Bottom Mount PPH01 Hinge offers numerous choices of templates. Refer to the lower left hand corner of this page for the various selections. If using an Edge Mount Template, the capabilities of your temperer may determine your choice of Preferred or Alternate Methods. The Preferred Method has a full leg cutout that allows a full length vertical seal on the hinge side. The Alternate Methods all have a short leg cutout, resulting in an interrupted seal.

The Inset Mount Template is beneficial for two reasons. It allows a full length vertical seal. Also, by inseting the hinge a certain distance towards the center of the door, it enables the door to avoid hitting a towel bar, or some other protrusion from the wall.

Vertical Clearances: If using the Top or Bottom Mount PPH01 Hinges with the CRL Deluxe Header Kit, DISREGARD the suggested top clearance instructions shown on these templates. For vertical deductions using the Header Kit, refer to page 2-22 in Section 2.

Optional Pivot Pins: Optional 5° Pivot Pins (Cat. No. P1VP1N) are sold as a set, one pin for the top hinge and one pin for the bottom hinge. These 5° offset Pivot Pins allow the installer to adjust the closing position of the door 5° inwards or outwards.

Specifications:

Glass Sizes: 5/16" (8mm) to 3/8" (10mm) thick tempered safety glass

Construction: Solid brass

Closing Type: Self-centering when within 15° of closed position

Cutout Required

Includes: Gaskets, screws and template

Use of Gaskets:

For 5/16"(8mm) Glass: Use one thick gasket and one thin gasket on each side

For 3/8"(10mm) Glass: Use one thick gasket on each side

Recommendations:

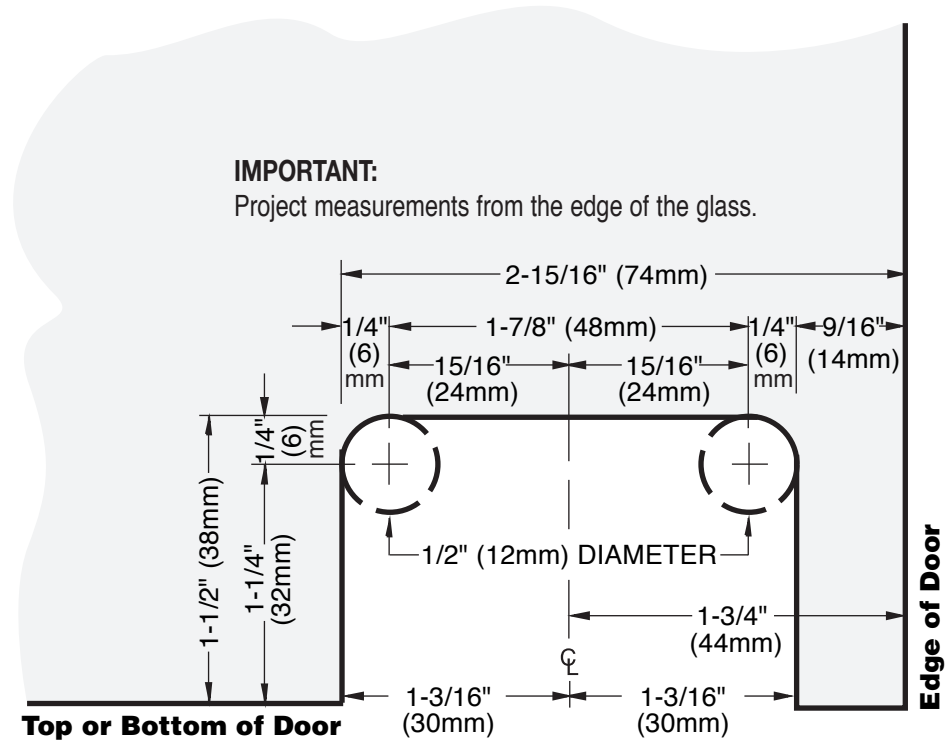
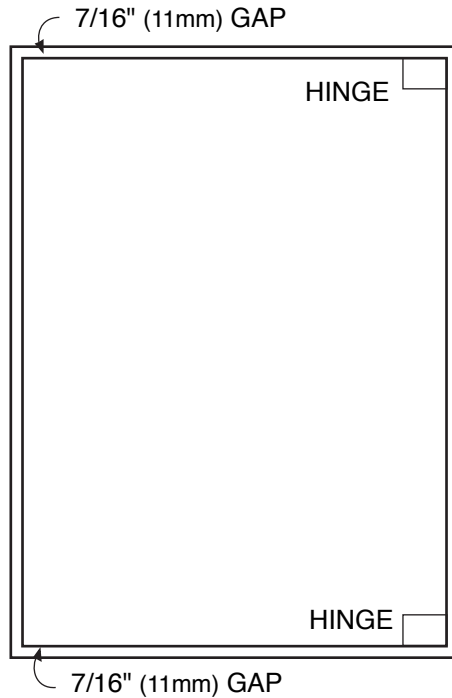
For public safety, we recommend the use of only tempered safety glass. Do not use power tools when installing these hinges.

Maintenance Guidelines:

- Never use an abrasive cleaner on the hardware. Many of the components are coated with a clear lacquer that will be irreparably damaged if subjected to harsh, abrasive chemicals. Advise your customer that drying the hardware with a clean, soft towel on a daily basis is the best way to maintain the hardware. If mineral deposits build-up, mix a couple of drops of a mild liquid soap (such as Ivory or a similar product) into a cup of warm water. Using a soft, non-abrasive cloth, clean the hardware. Rinse thoroughly with clean, warm water and dry.



Note: Disregard vertical clearances shown if using CRL Deluxe Header Kit. See page 2-22 for vertical deductions.

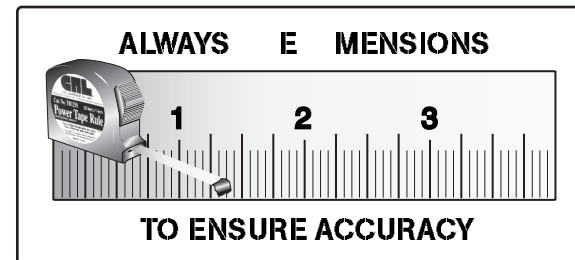


PRIMA

Top or Bottom Mount Hinge

CAT. No. PPH01

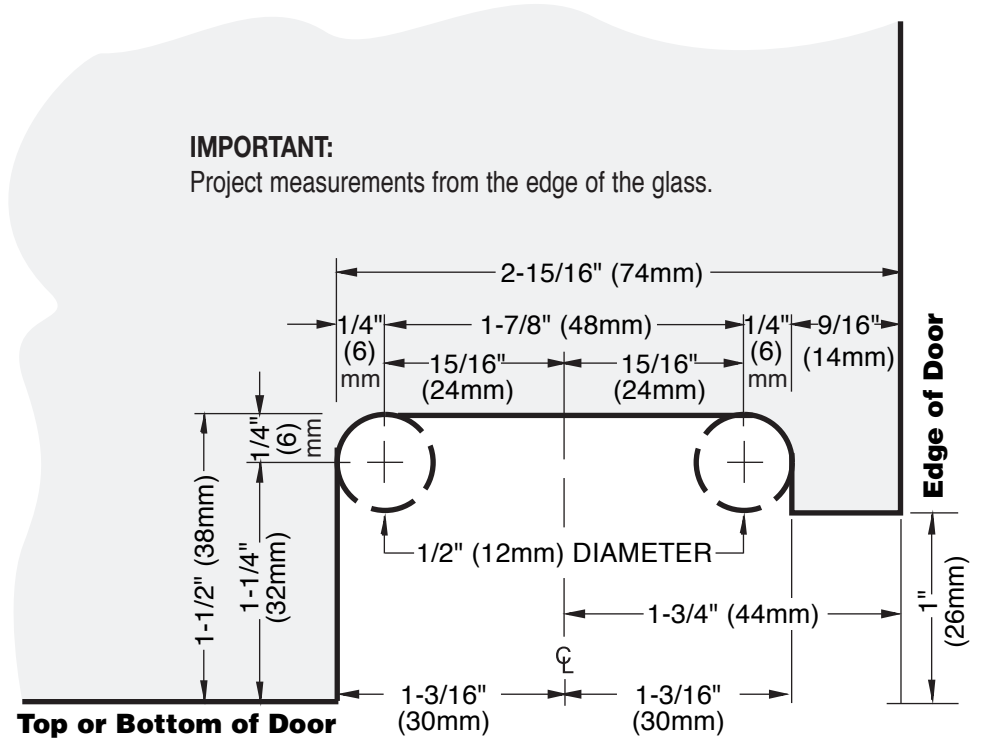
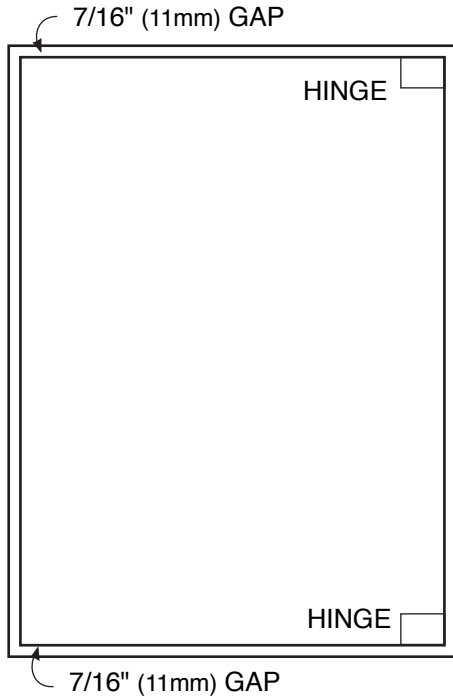
Edge Mount Preferred Method 7/16" (11mm) Clearance





C.R. LAURENCE CO., INC.
PROFESSIONAL QUALITY

Note: Disregard vertical clearances shown if using CRL Deluxe Header Kit. See page 2-22 for vertical deductions.

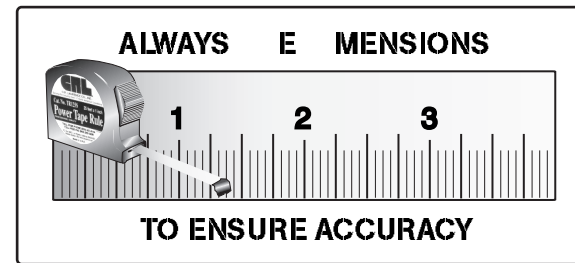


PRIMA

Top or Bottom Mount Hinge

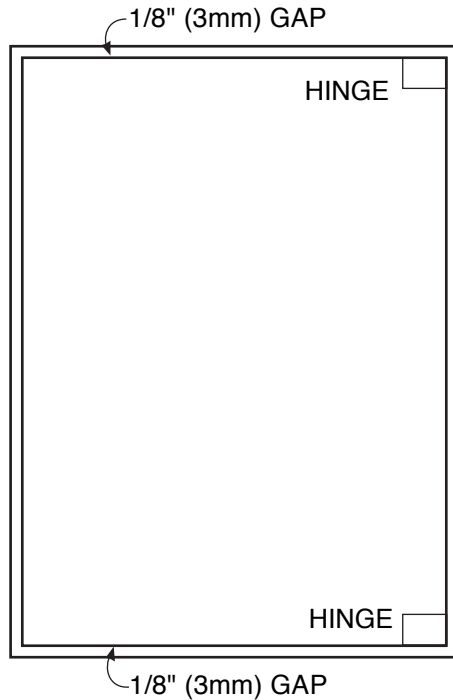
CAT. No. PPH01

Edge Mount Alternate Method 7/16" (11mm) Clearance



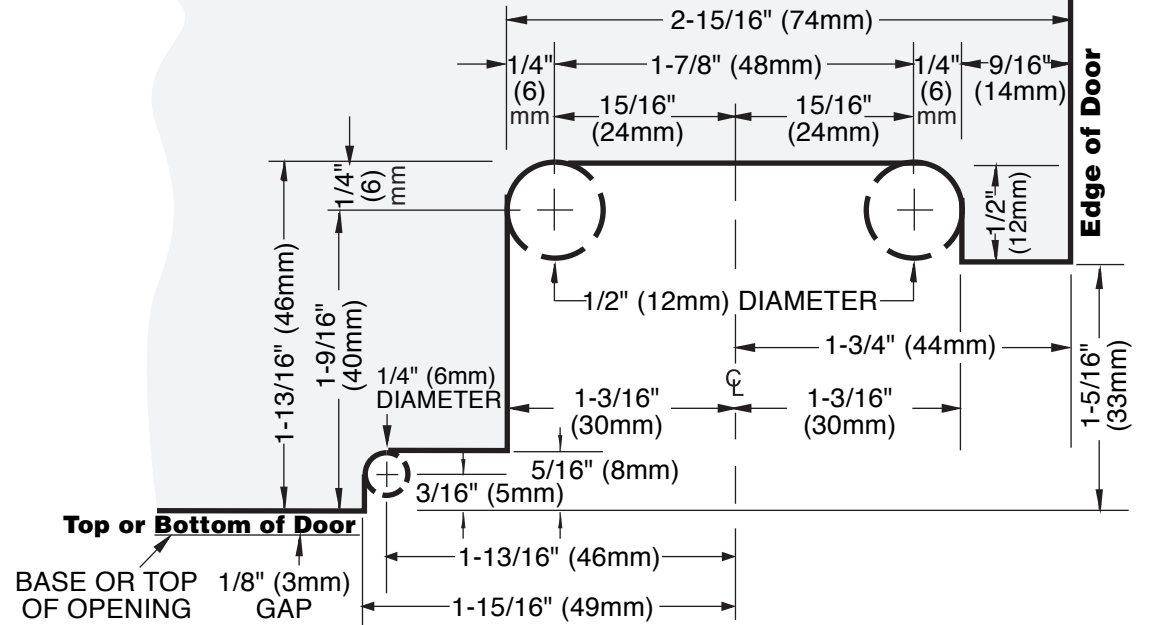


Note: Disregard vertical clearances shown if using CRL Deluxe Header Kit. See page 2-22 for vertical deductions.



IMPORTANT:

Project measurements from the edge of the glass.

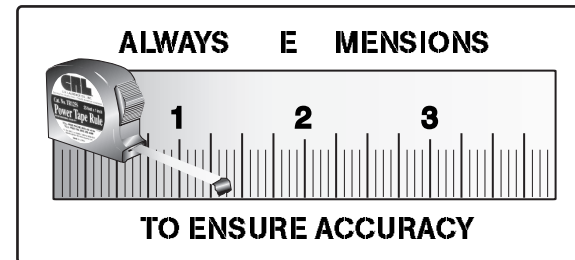


PRIMA

Top or Bottom Mount Hinge

Cat. No. PPH01

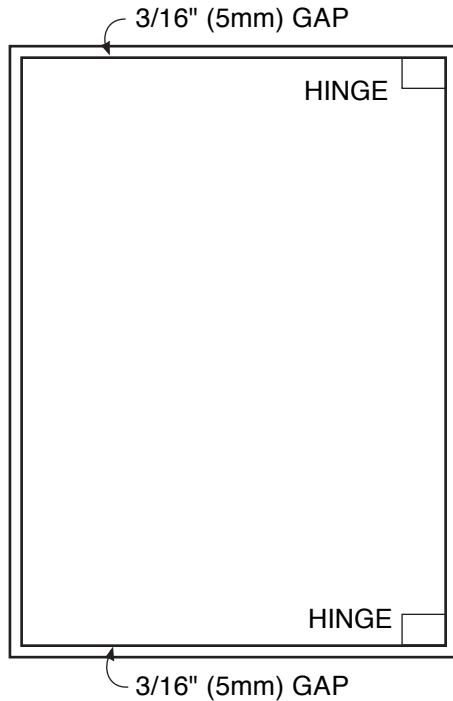
Edge Mount Alternate Method 1/8" (3mm) Clearance





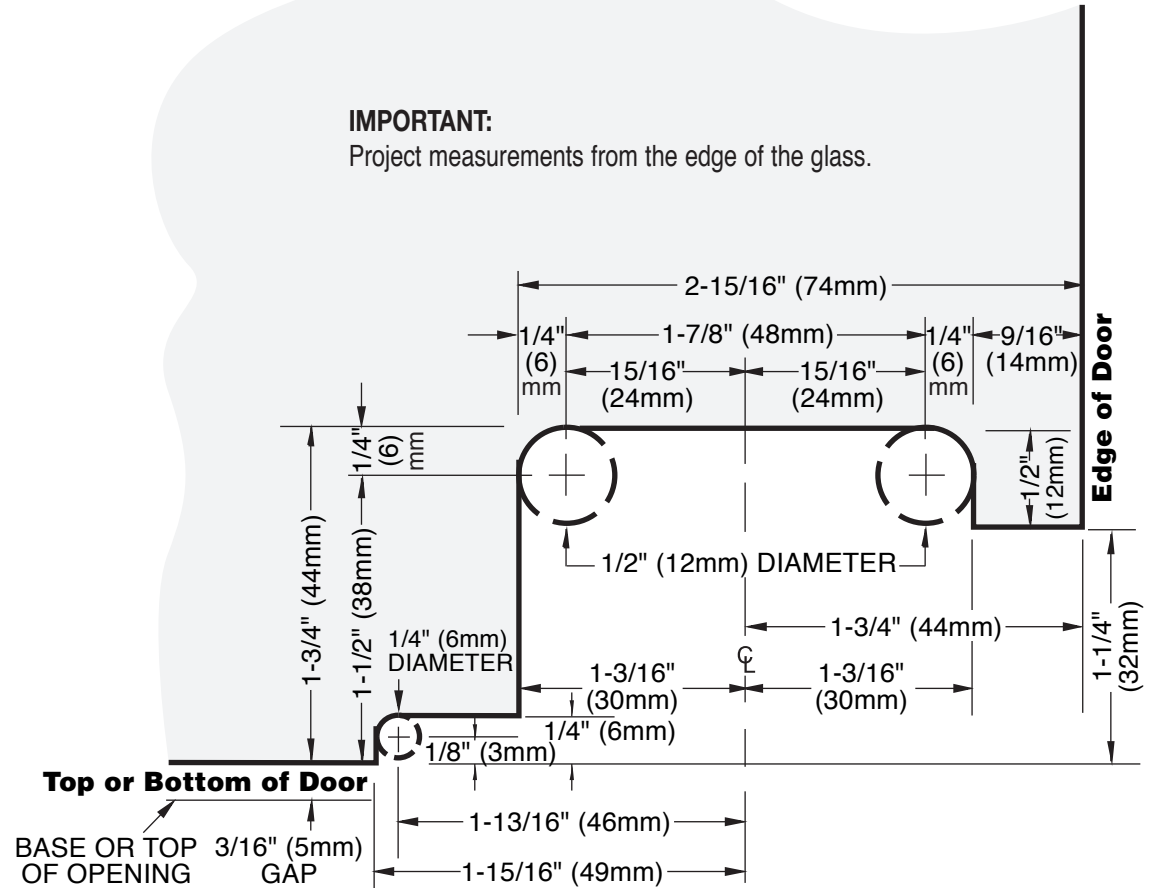
C.R. LAURENCE CO., INC.
PROFESSIONAL QUALITY

Note: Disregard vertical clearances shown if using CRL Deluxe Header Kit. See page 2-22 for vertical deductions.



IMPORTANT:

Project measurements from the edge of the glass.

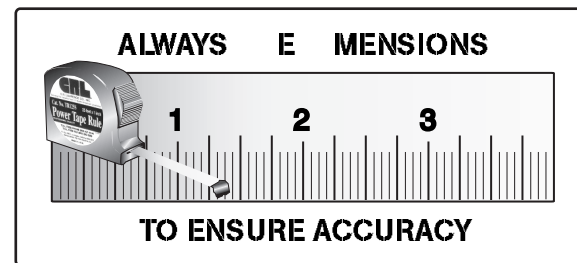


PRIMA

Top or Bottom Mount Hinge

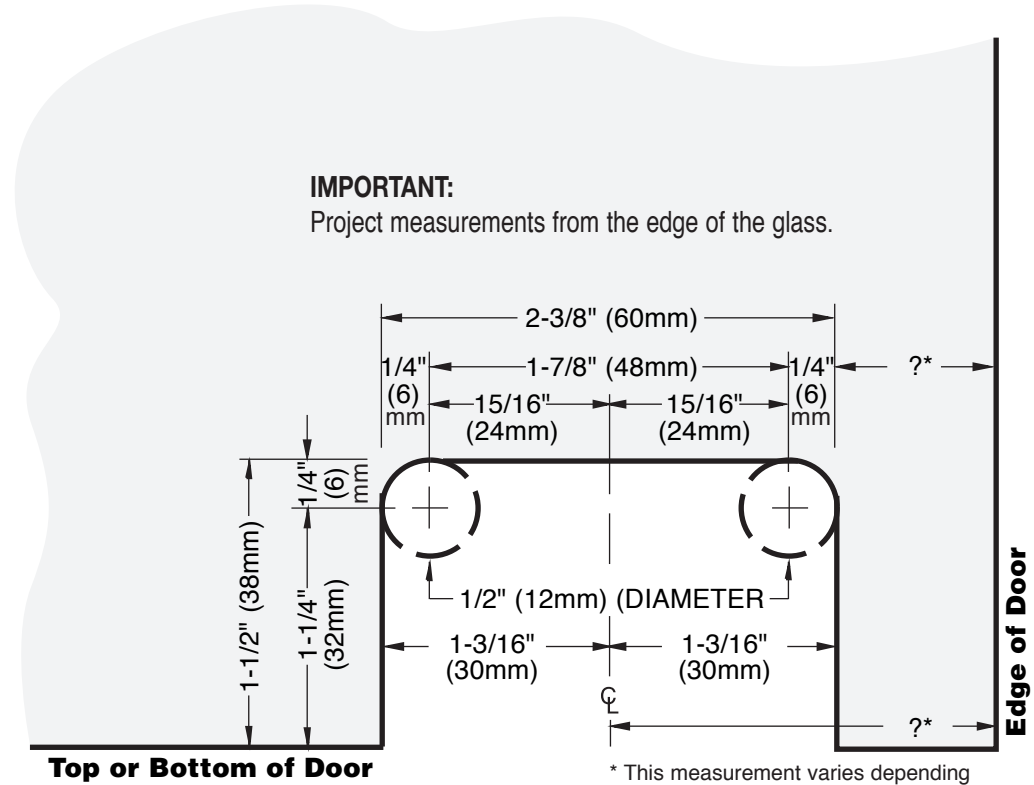
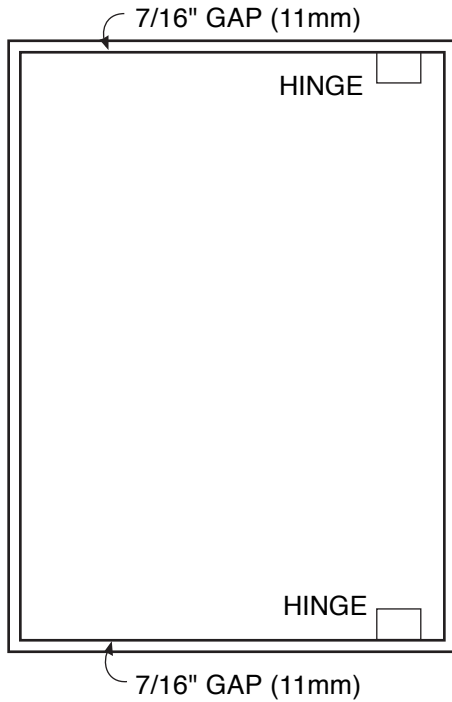
Cat. No. PPH01

Edge Mount Alternate Method 3/16" (5mm) clearance





Note: Disregard vertical clearances shown if using CRL Deluxe Header Kit. See page 2-22 for vertical deductions.



IMPORTANT:
 Project measurements from the edge of the glass.

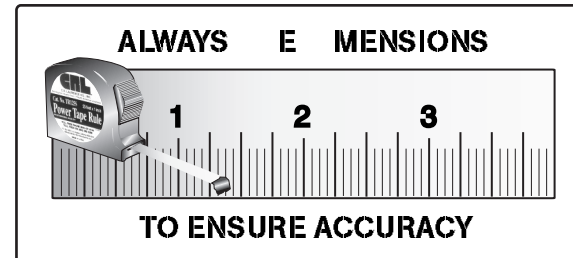
* This measurement varies depending on the amount to inset you desire.

PRIMA

Top or Bottom Mount Hinge

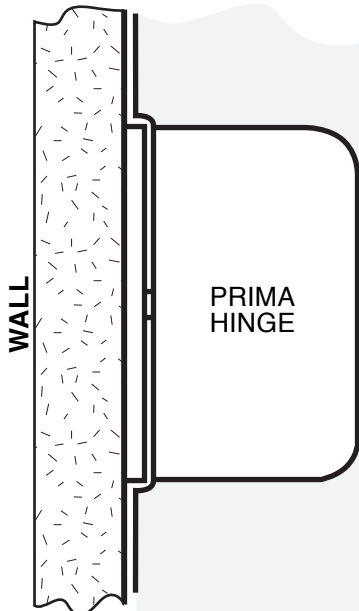
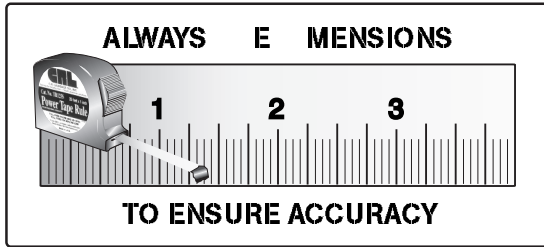
Cat. No. PPH01

Inset Mount Method 7/16" (11mm) clearance





C.R. LAURENCE CO., INC.
PROFESSIONAL QUALITY



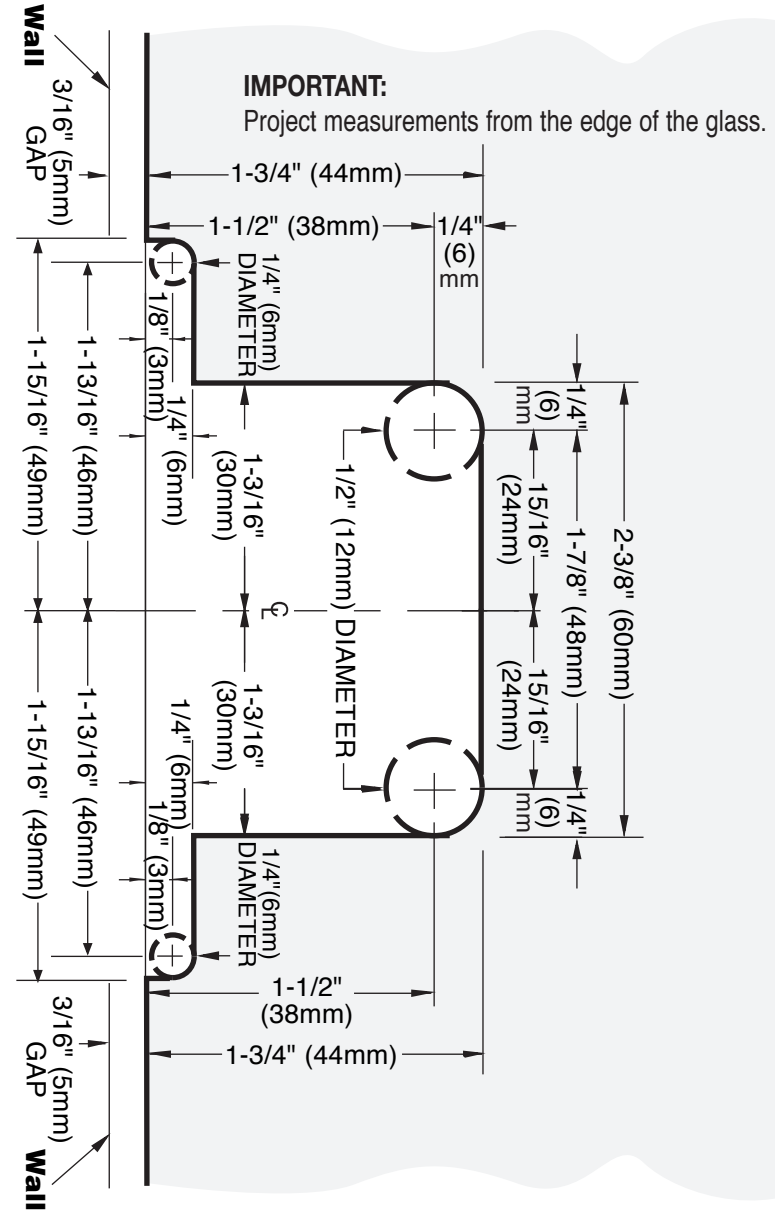
PRIMA

Top or Bottom Mount Hinge

Cat. No. PPH01

Transom Mount Method

3/16" (5mm) clearance



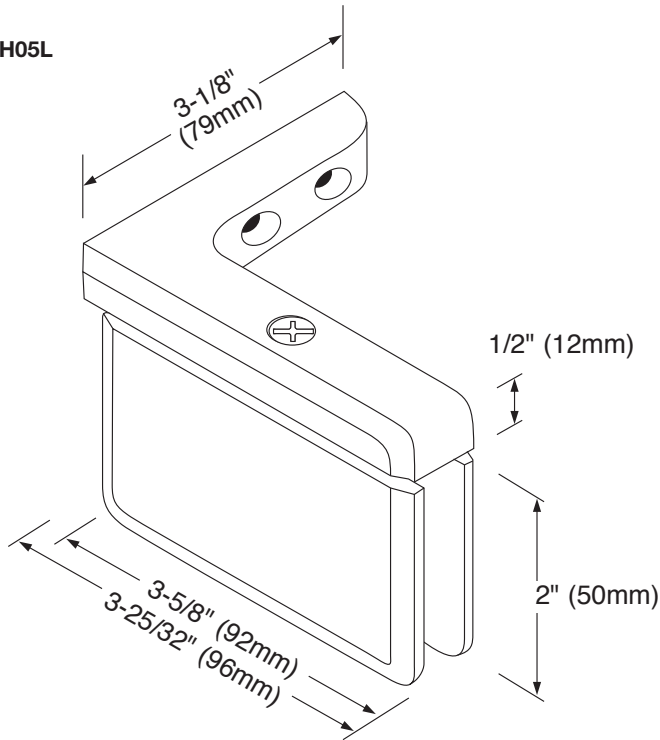


C.R. Laurence Company has established a Technical Sales Department to assist our customers. If you have any questions concerning shower door hardware or any product from CRL, please contact us at:
**(800) 421-6144 in the U.S.,
or (877) 421-6144 from Canada,
and ask for Extension 7740**



C.R. LAURENCE CO., INC.
PROFESSIONAL QUALITY

Model PPH05L
 Shown



PRIMA

Wall Mount Hinge

CAT. No. PPH05L & PPH05R

Edge Mount Preferred Method (Even with top of door)Page 4G-16
 Edge Mount Alternate Method (Even with top of door)Page 4G-17

*Maximum Door Capacities	5/16" (10mm) Glass		3/8" (10mm) Glass	
	Weight	Width	Weight	Width
Using 2 Hinges	100 lbs.(46 kg)	31"(787mm)	100 lbs.(46 kg)	31"(787mm)

*NOTE: Do not exceed either maximum weight or width when choosing proper quantity of hinges.

Important Information:

Template Options: The Prima Wall Mount PPH05L or PPH05R Hinge offers two template options, depending upon the capabilities of the temperer (see lower left of this page). The Preferred Method allows a full vertical seal along the hinge side. The Alternate Method leaves a short leg of glass, thus not allowing a full length vertical seal.

Optional Pivot Pins: Optional 5° Pivot Pins (Cat. No. P1VP1N) are sold as a set, one pin for the top hinge and one pin for the bottom hinge. These 5° Offset Pivot Pins allow the installer to adjust the closing position of the door 5° inwards or outwards.

Specifications:

Glass Sizes: 5/16" (8mm) to 3/8" (10mm) thick tempered safety glass

Construction: Solid brass

Closing Type: Self-centering when within 15° of closed position

Cutout Required

Includes: Gaskets, screws and template

Use of Gaskets:

For 5/16"(8mm) Glass: Use one thick gasket and one thin gasket on each side

For 3/8"(10mm) Glass: Use one thick gasket on each side

Recommendations:

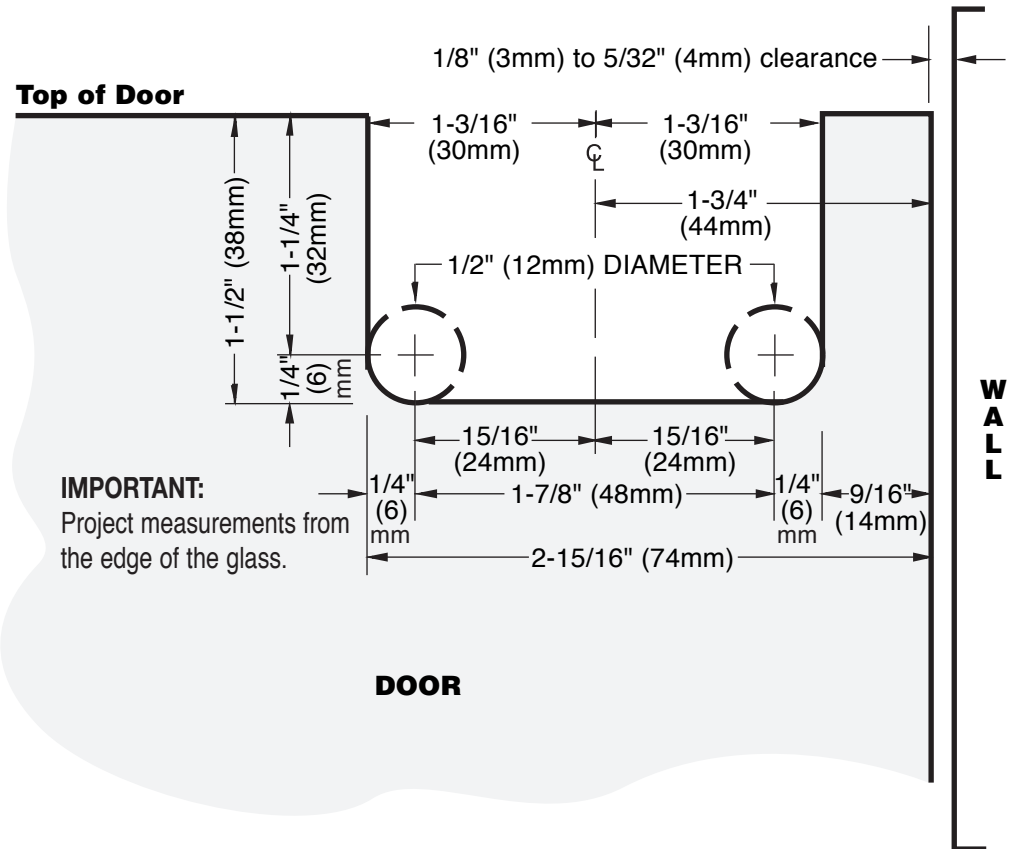
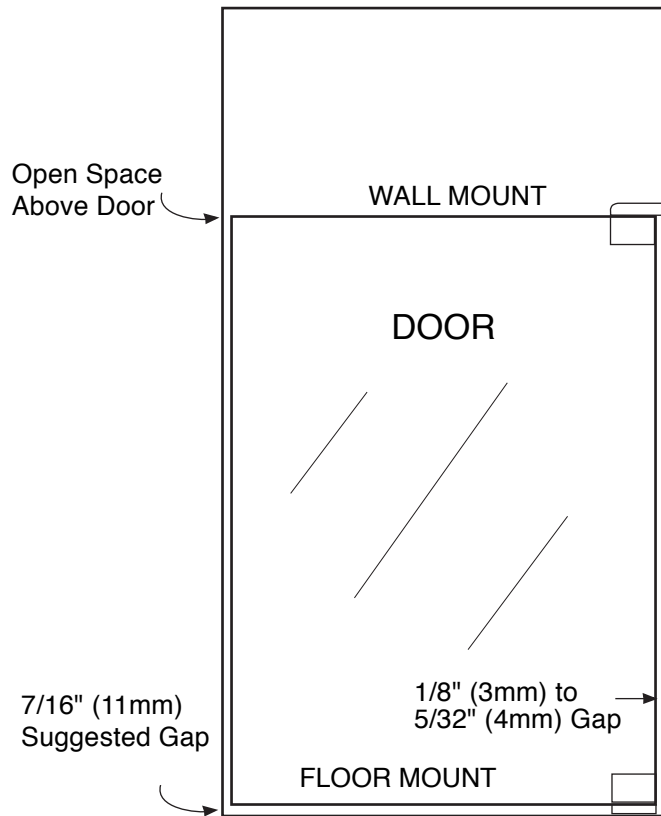
For public safety, we only recommend the use of tempered safety glass.
 Do not use power tools when installing these hinges.

Maintenance Guidelines:

- Never use an abrasive cleaner on the hardware. Many of the components are coated with a clear lacquer that will be irreparably damaged if subjected to harsh, abrasive chemicals. Advise your customer that drying the hardware with a clean, soft towel on a daily basis is the best way to maintain the hardware. If mineral deposits build-up, mix a couple of drops of a mild liquid soap (such as Ivory or a similar product) into a cup of warm water. Using a soft, non-abrasive cloth, clean the hardware. Rinse thoroughly with clean, warm water and dry.



C.R. LAURENCE CO., INC.
PROFESSIONAL QUALITY



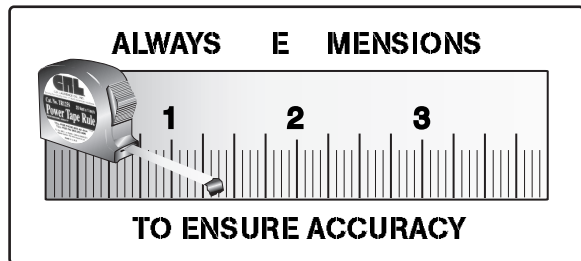
IMPORTANT:
 Project measurements from the edge of the glass.

PRIMA

Wall Mount Hinge

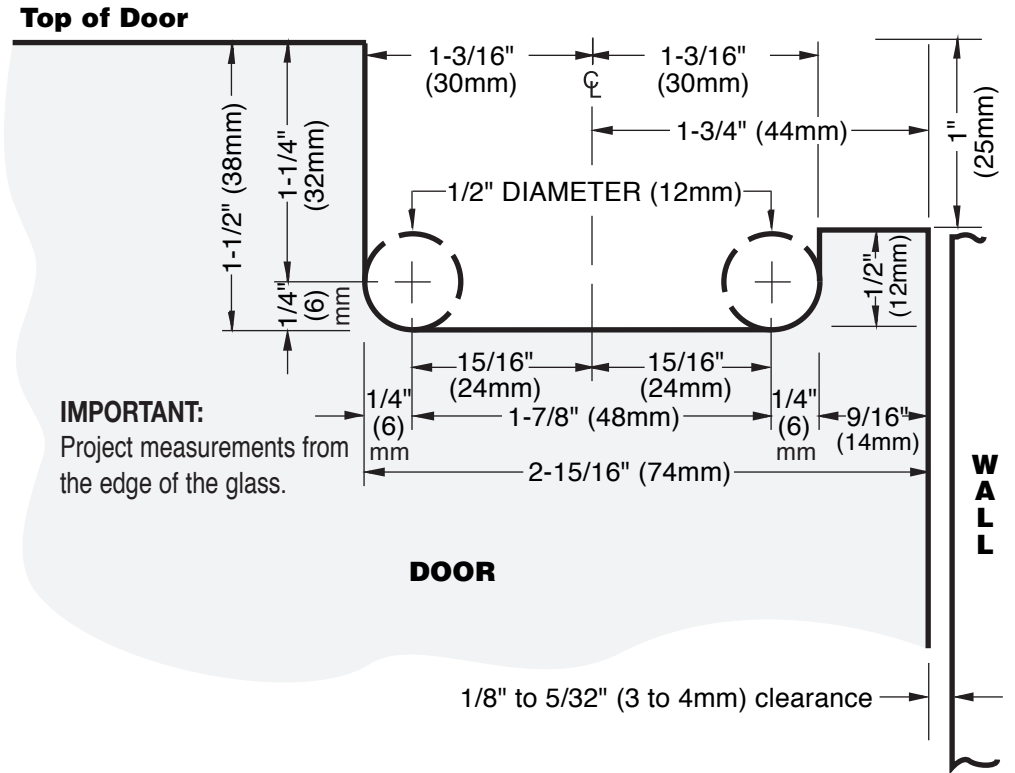
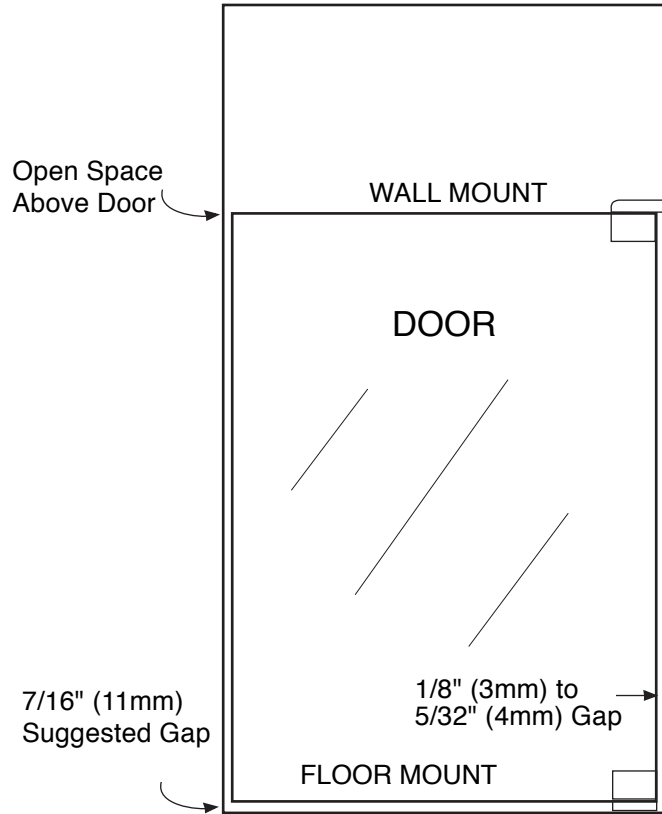
CAT. No. PPH05L & PPH05R

Wall Mount Preferred Method (Even with top of door)





C.R. LAURENCE CO., INC.
PROFESSIONAL QUALITY



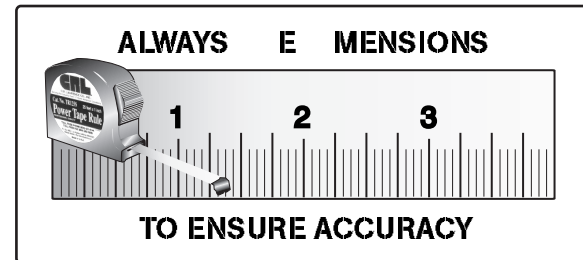
IMPORTANT:
Project measurements from the edge of the glass.

PRIMA

Wall Mount Hinge

Cat. No. PPH05L & PPH05R

Wall Mount Alternate Method (Even with top of door)

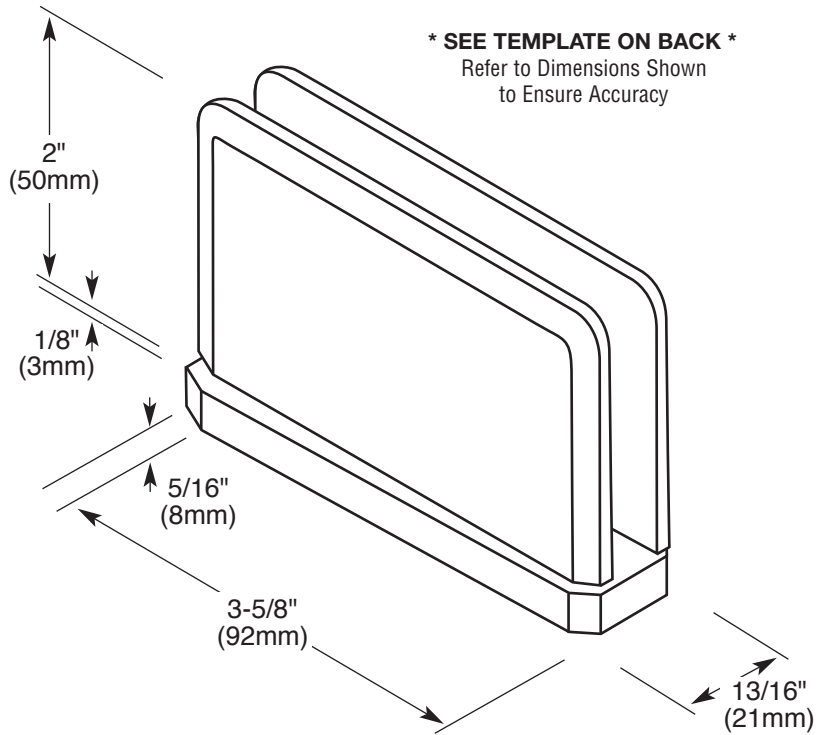




C.R. Laurence Company has established a Technical Sales Department to assist our customers. If you have any questions concerning shower door hardware or any product from CRL, please contact us at:
(800) 421-6144 in the U.S.,
or (877) 421-6144 from Canada,
and ask for Extension 7740



C.R. LAURENCE CO., INC.
PROFESSIONAL QUALITY



Important Information:

Template Options: The Top or Bottom Mount PPH0151 Hinge offers numerous choices of templates. Refer to the lower left hand corner of this page for the various selections. If using an Edge Mount Template, the capabilities of your temperer may determine your choice of Preferred or Alternate Methods. The Preferred Method has a full leg cutout that allows a full length vertical seal on the hinge side. The Alternate Methods all have a short leg cutout, resulting in an interrupted seal.

The Inset Mount Template is beneficial for two reasons. It allows a full length vertical seal. Also, by inseting the hinge a certain distance towards the center of the door, it enables the door to avoid hitting a towel bar, or some other protrusion from the wall.

Vertical Clearances: If using the Top or Bottom Mount PPH0151 Hinges with the CRL Deluxe Header Kit, DISREGARD the suggested top clearance instructions shown on these templates. For vertical deductions using the Header Kit, refer to page 2-22 in Section 2.

Specifications:

Glass Sizes: 5/16" (8mm) to 3/8" (10mm) thick tempered safety glass

Construction: Solid brass

Closing Type: Self-centering when within 15° of closed position

Cutout Required

Includes: Gaskets, screws and template

Use of Gaskets:

For 5/16"(8mm) Glass: Use one thick gasket and one thin gasket on each side

For 3/8"(10mm) Glass: Use one thick gasket on each side

Recommendations:

For public safety, we recommend the use of only tempered safety glass. Do not use power tools when installing these hinges.

Maintenance Guidelines:

- Never use an abrasive cleaner on the hardware. Many of the components are coated with a clear lacquer that will be irreparably damaged if subjected to harsh, abrasive chemicals. Advise your customer that drying the hardware with a clean, soft towel on a daily basis is the best way to maintain the hardware. If mineral deposits build-up, mix a couple of drops of a mild liquid soap (such as Ivory or a similar product) into a cup of warm water. Using a soft, non-abrasive cloth, clean the hardware. Rinse thoroughly with clean, warm water and dry.

PRIMA 5° PRE-SET

Bottom Right or Top Left Hinge

CAT No. PPH0151

Edge Mount Preferred Method	7/16" (11mm) Clearance	Page 4G-28
Edge Mount Alternate Method	7/16" (11mm) Clearance	Page 4G-29
Inset Mount Method	7/16" (11mm) Clearance	Page 4G-30

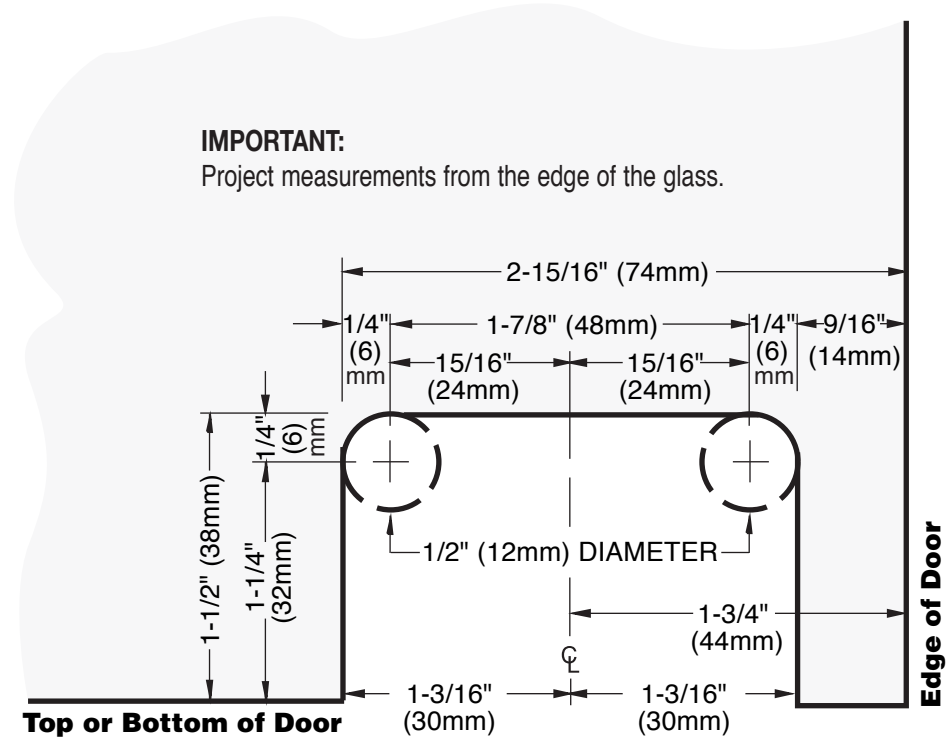
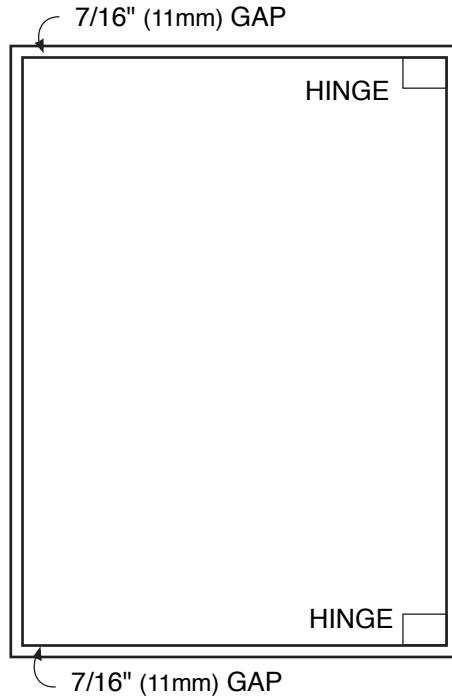
* Maximum Door Capacities	5/16" (8mm) Glass		3/8" (10mm) Glass	
	Weight	Width	Weight	Width
Using 2 Hinges	100 lbs.(46 kg)	31"(787mm)	100 lbs.(46 kg)	31"(787mm)

*NOTE: Do not exceed either maximum weight or width when choosing proper quantity of hinges.

4G-27



Note: Disregard vertical clearances shown if using CRL Deluxe Header Kit. See page 2-22 for vertical deductions.

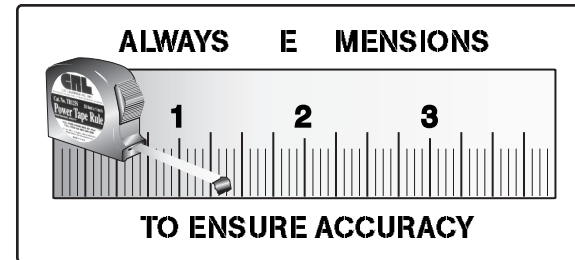


PRIMA 5° PRE-SET

Bottom Right or Top Left Hinge

CAT No. PPH0151

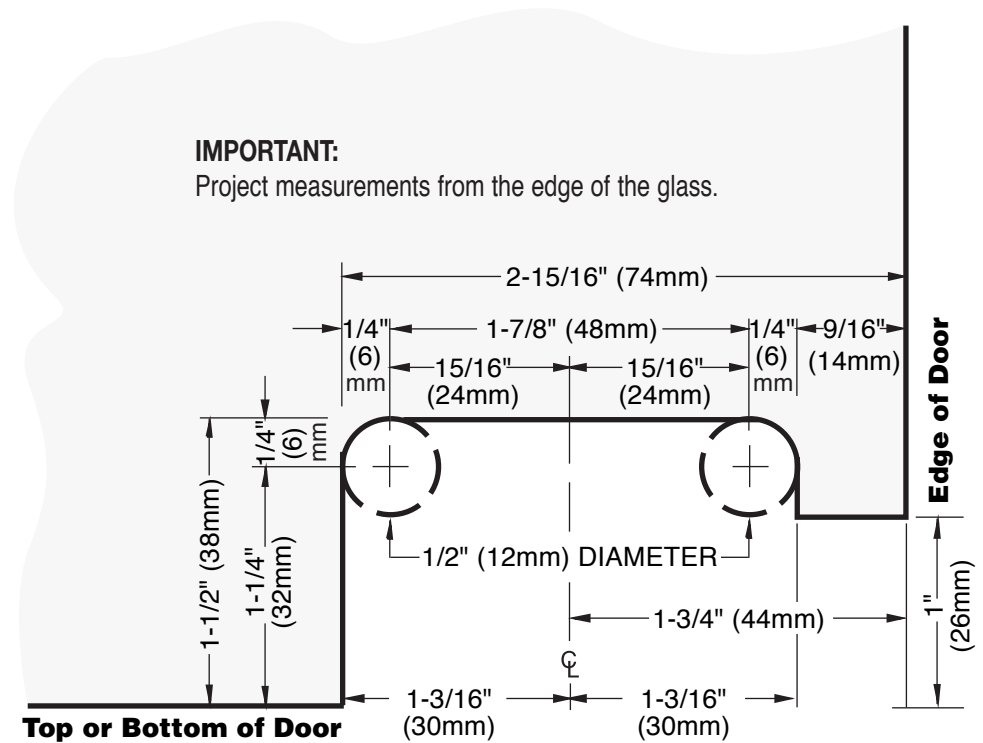
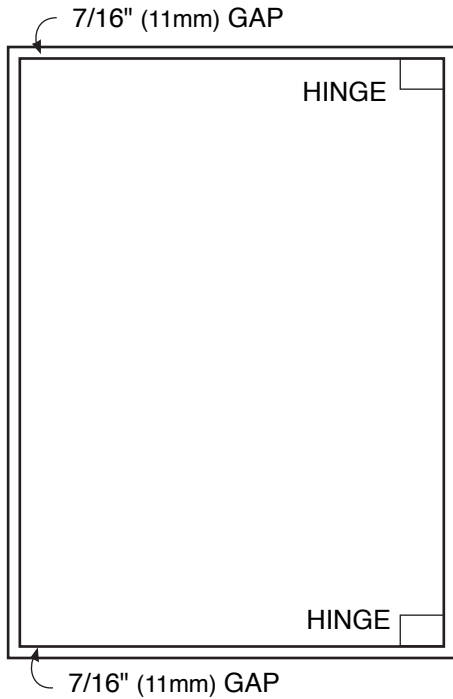
Edge Mount Preferred Method 7/16" (11mm) Clearance



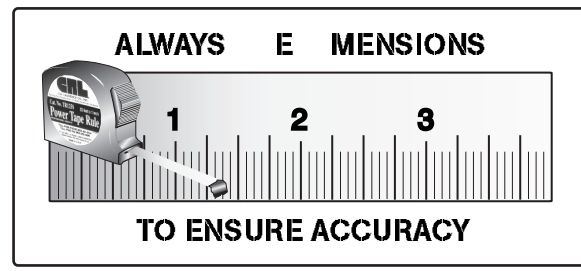


C.R. LAURENCE CO., INC.
PROFESSIONAL QUALITY

Note: Disregard vertical clearances shown if using CRL Deluxe Header Kit. See page 2-22 for vertical deductions.

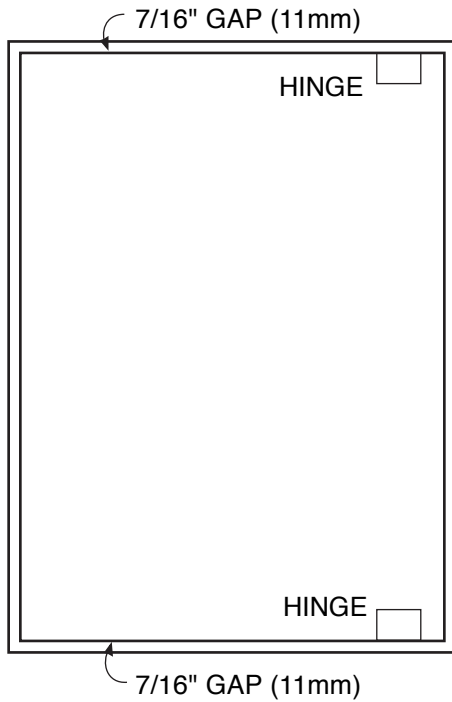


PRIMA 5° PRE-SET
 Bottom Right or Top Left Hinge
Cat. No. PPH0151
 Edge Mount Alternate Method 7/16" (11mm) Clearance



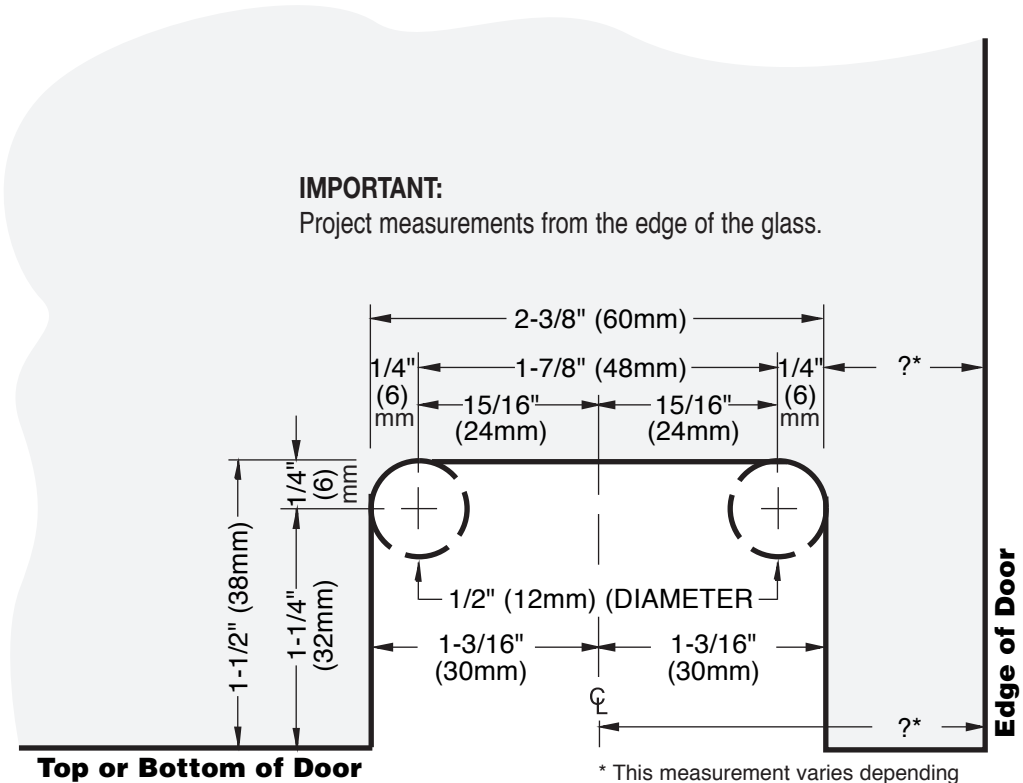


Note: Disregard vertical clearances shown if using CRL Deluxe Header Kit. See page 2-22 for vertical deductions.



IMPORTANT:

Project measurements from the edge of the glass.



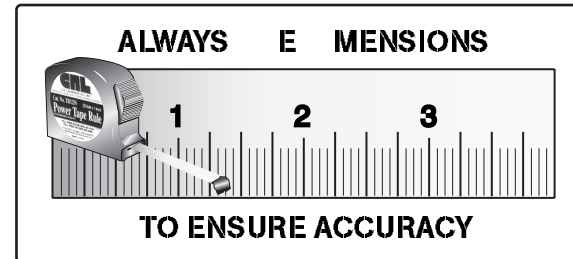
* This measurement varies depending on the amount to inset you desire.

PRIMA 5° PRE-SET

Bottom Right or Top Left Hinge

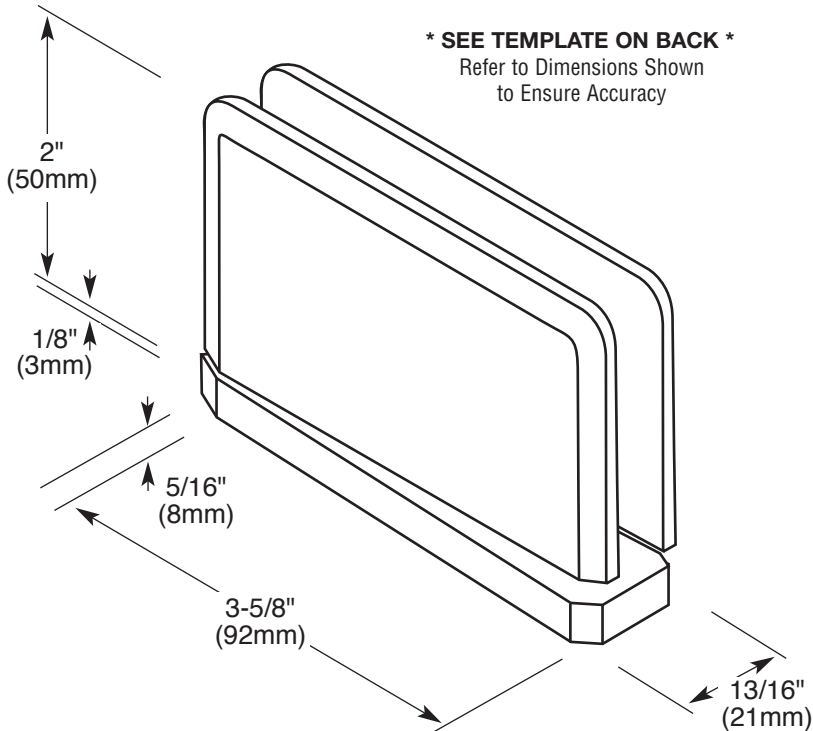
Cat No. PPH0151

Inset Mount Method 7/16" (11mm) clearance





C.R. LAURENCE CO., INC.
PROFESSIONAL QUALITY



*** SEE TEMPLATE ON BACK ***
Refer to Dimensions Shown
to Ensure Accuracy

PRIMA 5° PRE-SET

Bottom Left or Top Right Hinge

Cat. No. PPH0152

Edge Mount Preferred Method	7/16" (11mm) Clearance	Page 4G-32
Edge Mount Alternate Method	7/16" (11mm) Clearance	Page 4G-33
Inset Mount Method	7/16" (11mm) Clearance	Page 4G-34

*Maximum Door Capacities	5/16" (8mm) Glass		3/8" (10mm) Glass	
	Weight	Width	Weight	Width
Using 2 Hinges	100 lbs.(46 kg)	31"(787mm)	100 lbs.(46 kg)	31"(787mm)

***NOTE:** Do not exceed either maximum weight or width when choosing proper quantity of hinges.

Important Information:

Template Options: The Top or Bottom Mount PPH0152 Hinge offers numerous choices of templates. Refer to the lower left hand corner of this page for the various selections. If using an Edge Mount Template, the capabilities of your temperer may determine your choice of Preferred or Alternate Methods. The Preferred Method has a full leg cutout that allows a full length vertical seal on the hinge side. The Alternate Methods all have a short leg cutout, resulting in an interrupted seal.

The Inset Mount Template is beneficial for two reasons. It allows a full length vertical seal. Also, by inseting the hinge a certain distance towards the center of the door, it enables the door to avoid hitting a towel bar, or some other protrusion from the wall.

Vertical Clearances: If using the Top or Bottom Mount PPH0152 Hinges with the CRL Deluxe Header Kit, DISREGARD the suggested top clearance instructions shown on these templates. For vertical deductions using the Header Kit, refer to page 2-22 in Section 2.

Specifications:

Glass Sizes: 5/16" (8mm) to 3/8" (10mm) thick tempered safety glass

Construction: Solid brass

Closing Type: Self-centering when within 15° of closed position

Cutout Required

Includes: Gaskets, screws and template

Use of Gaskets:

For 5/16"(8mm) Glass: Use one thick gasket and one thin gasket on each side

For 3/8"(10mm) Glass: Use one thick gasket on each side

Recommendations:

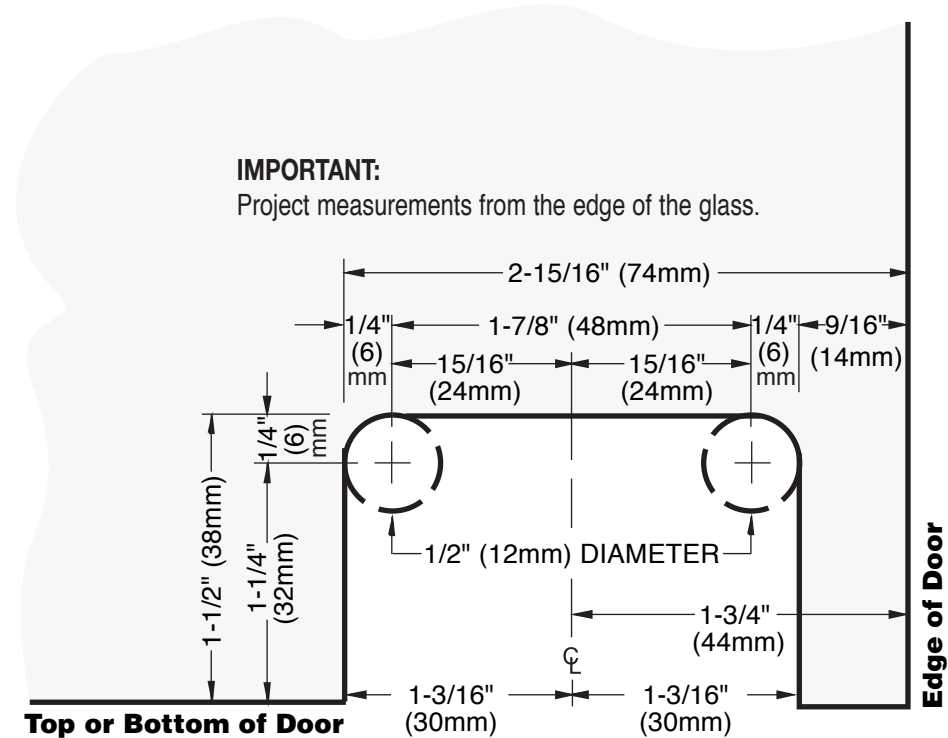
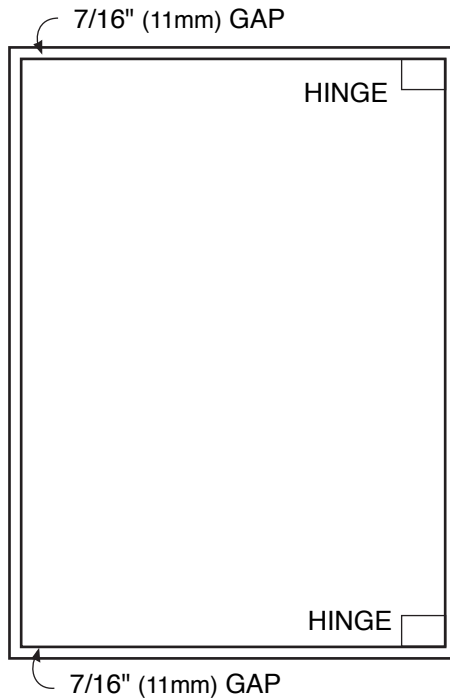
For public safety, we recommend the use of only tempered safety glass. Do not use power tools when installing these hinges.

Maintenance Guidelines:

- Never use an abrasive cleaner on the hardware. Many of the components are coated with a clear lacquer that will be irreparably damaged if subjected to harsh, abrasive chemicals. Advise your customer that drying the hardware with a clean, soft towel on a daily basis is the best way to maintain the hardware. If mineral deposits build-up, mix a couple of drops of a mild liquid soap (such as Ivory or a similar product) into a cup of warm water. Using a soft, non-abrasive cloth, clean the hardware. Rinse thoroughly with clean, warm water and dry.



Note: Disregard vertical clearances shown if using CRL Deluxe Header Kit. See page 2-22 for vertical deductions.

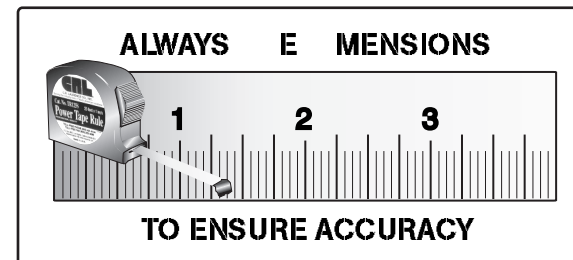


PRIMA 5° PRE-SET

Bottom Left or Top Right Hinge

Cat. No. PPH0152

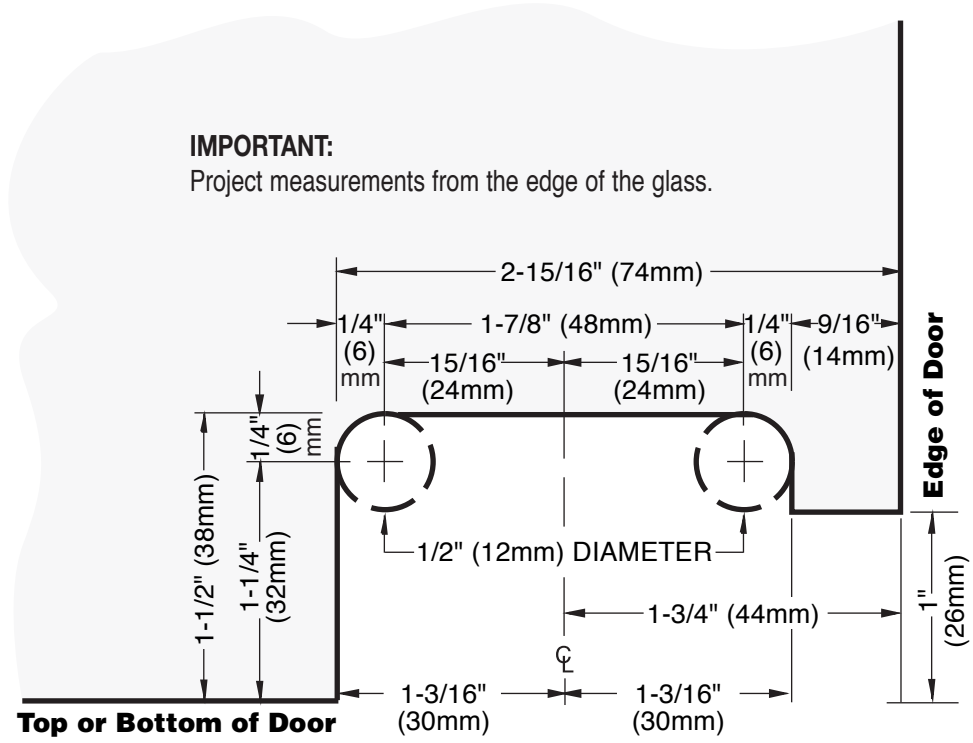
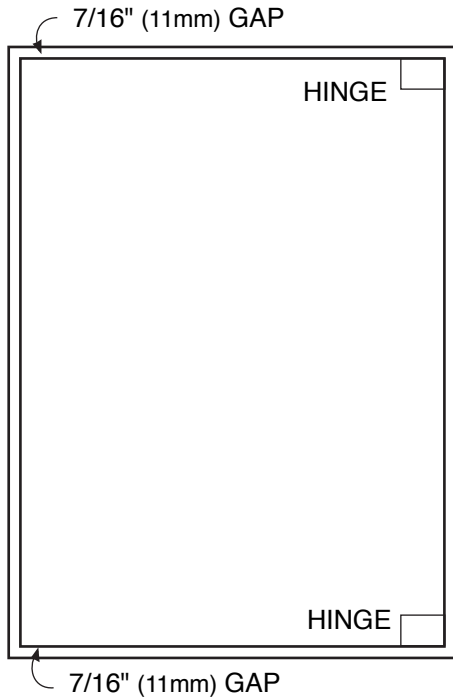
Edge Mount Preferred Method 7/16" (11mm) Clearance





C.R. LAURENCE CO., INC.
PROFESSIONAL QUALITY

Note: Disregard vertical clearances shown if using CRL Deluxe Header Kit. See page 2-22 for vertical deductions.

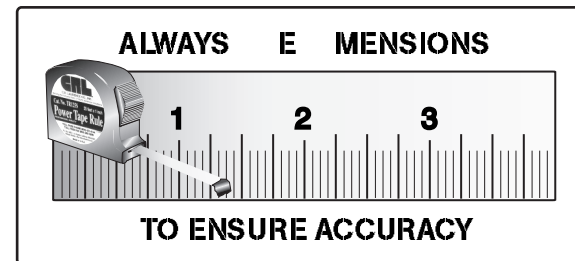


PRIMA 5° PRE-SET

Bottom Left or Top Right Hinge

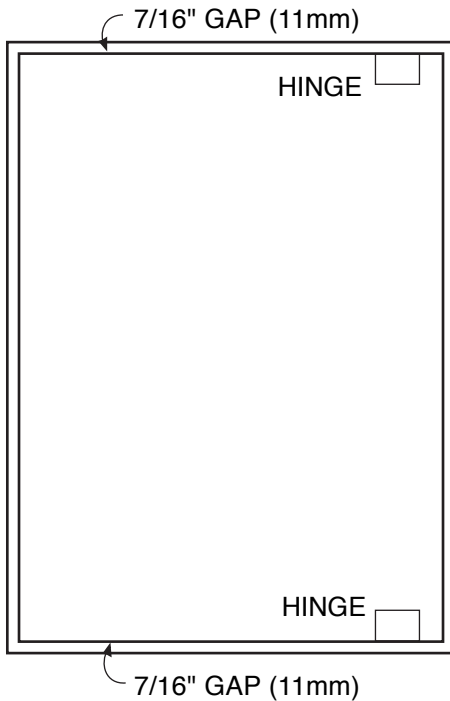
Cat. No. PPH0152

Edge Mount Alternate Method 7/16" (11mm) Clearance



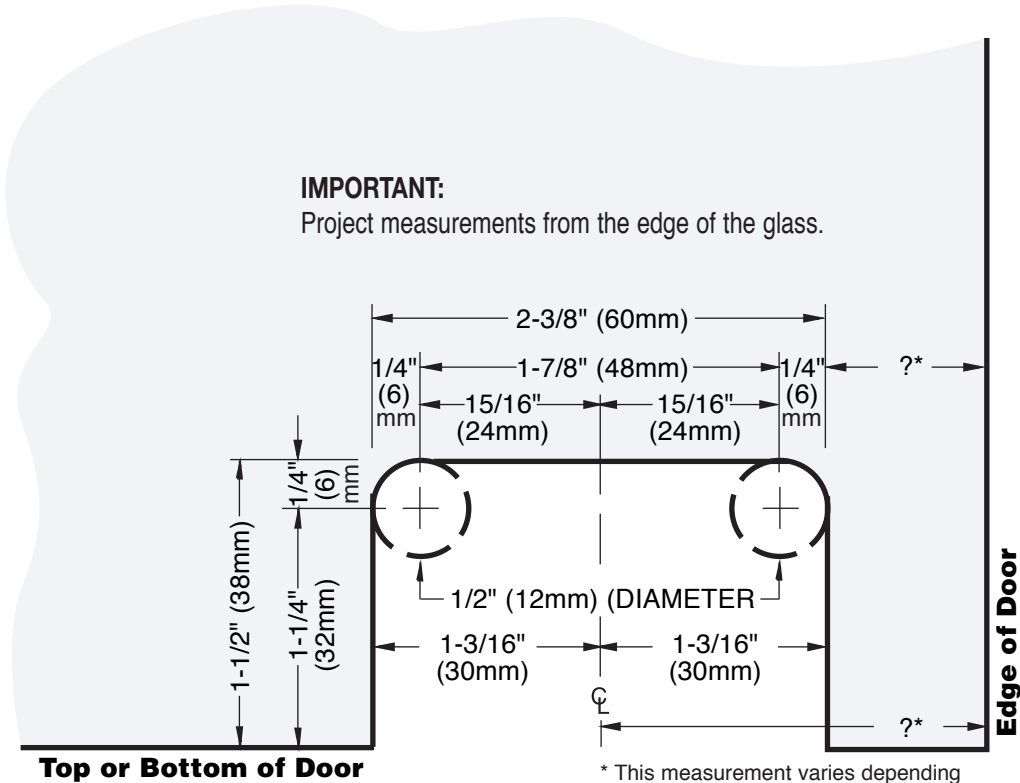


Note: Disregard vertical clearances shown if using CRL Deluxe Header Kit. See page 2-22 for vertical deductions.



IMPORTANT:

Project measurements from the edge of the glass.



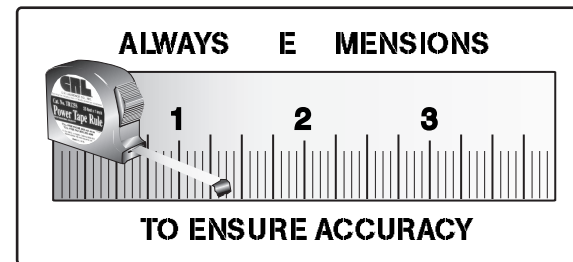
* This measurement varies depending on the amount to inset you desire.

PRIMA 5° PRE-SET

Bottom Left or Top Right Hinge

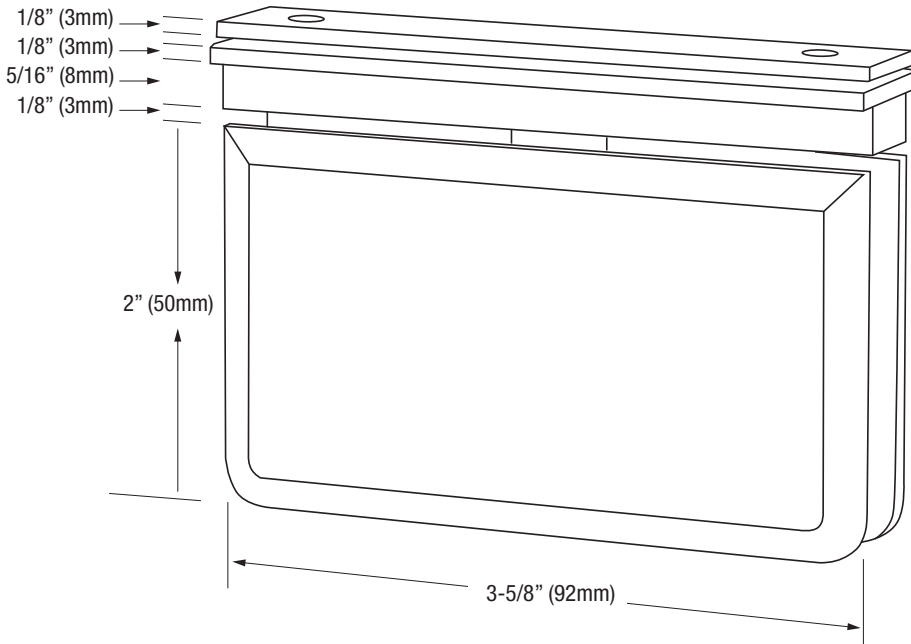
CAT. No. PPH0152

Inset Mount Method $7/16"$ (11mm) clearance





C.R. LAURENCE CO., INC.
PROFESSIONAL QUALITY



Important Information:

Template Options: The Prima EZ-Adjust Header Mount PPH06 Hinge offers three template options, depending upon the capabilities of the temperer (see lower left of this page). The Preferred Method allows a full vertical seal along the hinge side. The Alternate Method leaves a short leg of glass, thus not allowing a full length vertical seal. The Inset Mount Template is beneficial for two reasons. It allows a full length vertical seal. Also, by inseting the hinge a certain distance towards the center of the door, it enables the door to avoid hitting a towel bar, or some other protrusion from the wall.

Specifications:

- Glass Sizes:** 5/16" (8mm) to 3/8" (10mm) thick tempered safety glass
- Construction:** Solid brass
- Closing Type:** Self-centering when within 15° of closed position
- Cutout Required**
- Includes:** Gaskets, screws and template

Use of Gaskets:

- For 5/16"(8mm) Glass:** Use one thick gasket and one thin gasket on each side
- For 3/8"(10mm) Glass:** Use one thick gasket on each side

Recommendations:

For public safety, we only recommend the use of tempered safety glass. Do not use power tools when installing these hinges.

Maintenance Guidelines:

- Never use an abrasive cleaner on the hardware. Many of the components are coated with a clear lacquer that will be irreparably damaged if subjected to harsh, abrasive chemicals. Advise your customer that drying the hardware with a clean, soft towel on a daily basis is the best way to maintain the hardware. If mineral deposits build-up, mix a couple of drops of a mild liquid soap (such as Ivory or a similar product) into a cup of warm water. Using a soft, non-abrasive cloth, clean the hardware. Rinse thoroughly with clean, warm water and dry.

PRIMA

EZ-Adjust Header Mount Hinge

CAT. No. PPH06

Edge Mount Preferred MethodPage 4G-36
 Edge Mount Alternate MethodPage 4G-37
 Inset Mount MethodPage 4G-38

*Maximum Door Capacities	5/16" (8mm) Glass		3/8" (10mm) Glass	
	Weight	Width	Weight	Width
Using 2 Hinges	100 lbs.(46 kg)	31"(787mm)	100 lbs.(46 kg)	31"(787mm)

***NOTE:** Do not exceed either maximum weight or width when choosing proper quantity of hinges.

C.R. Laurence Co., Inc. For technical assistance in the United States call toll free (800) 421-6144; from Canada call toll free (877) 421-6144; Outside the U.S. and Canada call (323) 588-1281. Ask for Tech Sales at Extension 7740. Toll free fax (800) 458-7496.
crlaurence.com



Note: For Vertical deductions using CRL Headers, see page 2-22.

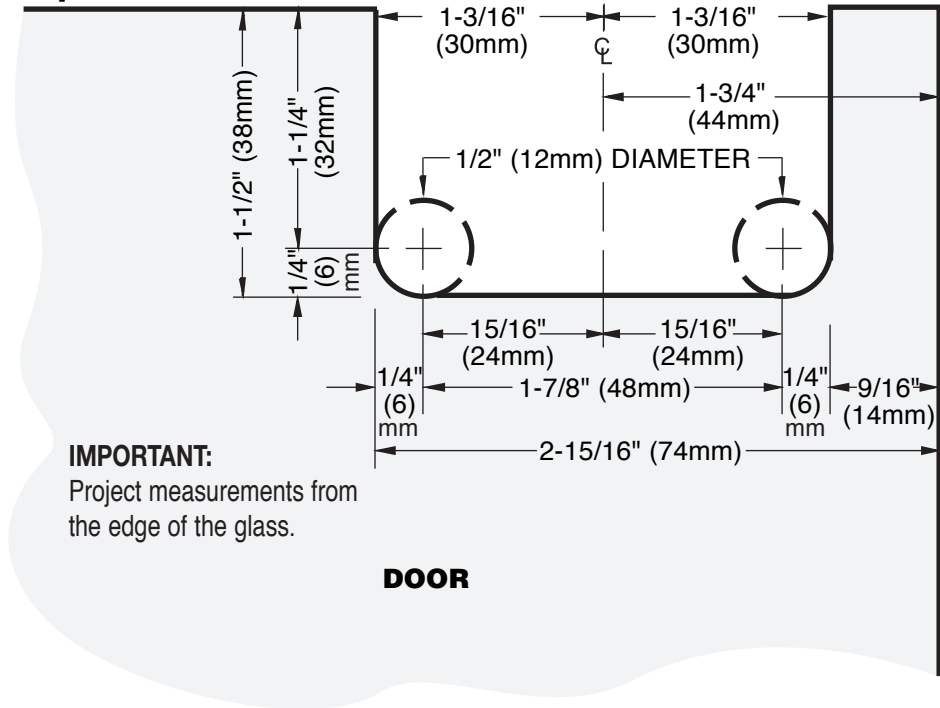
EZ-Adjust Header

DOOR

FLOOR MOUNT

7/16" (11mm)
Suggested Gap

Top of Door

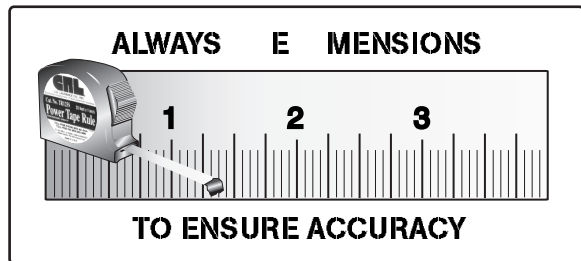


PRIMA

EZ-Adjust Header Mount Hinge

CAT. No. PPH06

EZ-Adjust Header Mount Preferred Method





Note: For Vertical deductions using CRL Headers, see page 2-22.

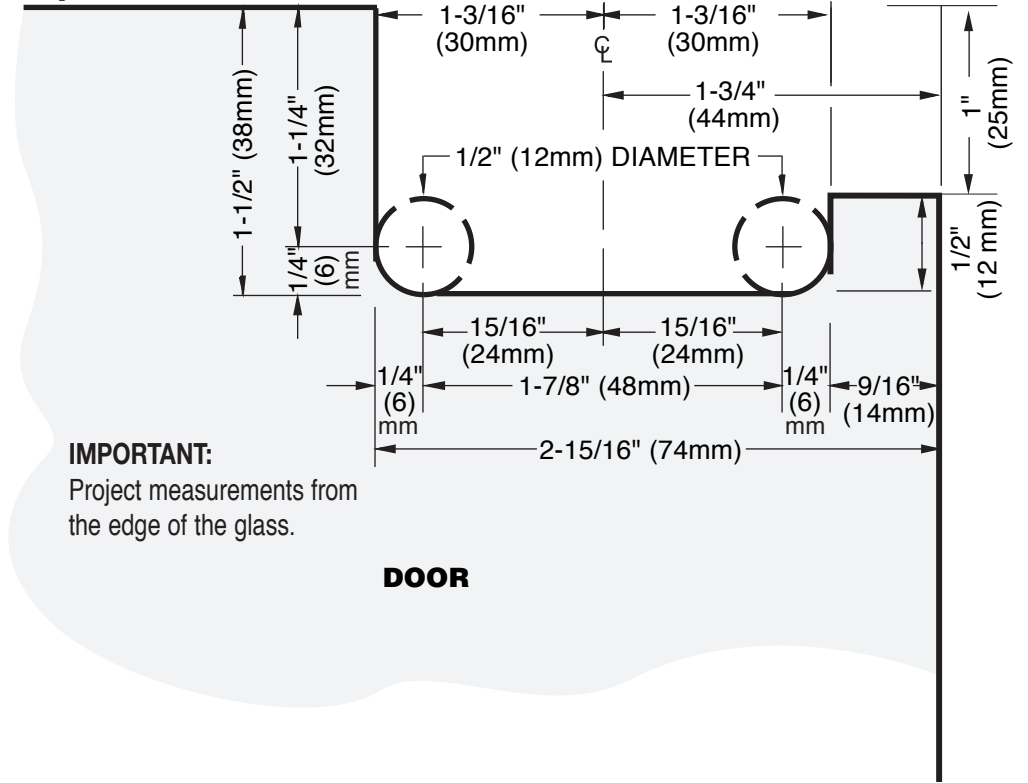
EZ-Adjust Header

DOOR

FLOOR MOUNT

7/16" (11mm)
Suggested Gap

Top of Door



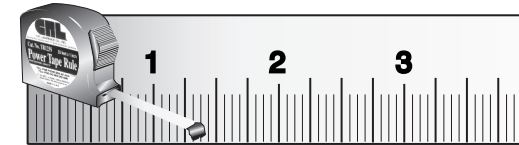
PRIMA

EZ-Adjust Header Mount Hinge

Cat. No. PPH06

EZ-Adjust Header Mount Alternate Method

ALWAYS USE DIMENSIONS



TO ENSURE ACCURACY



Note: For Vertical deductions using CRL Headers, see page 2-22.

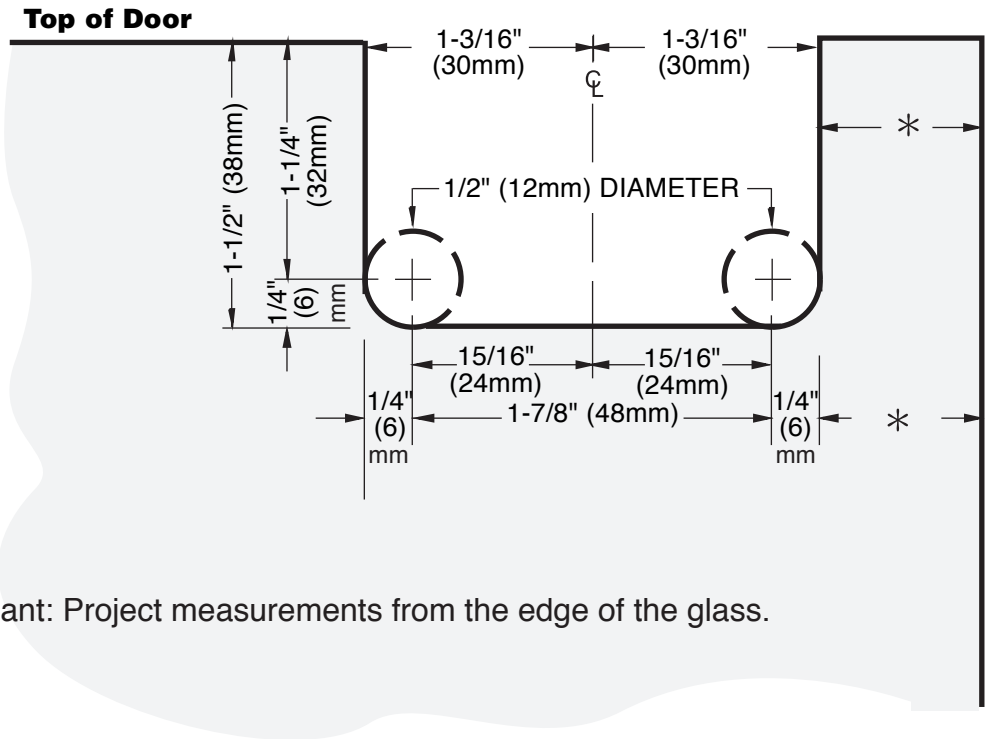
EZ-Adjust Header

DOOR

FLOOR MOUNT

7/16" (11mm)
Suggested Gap

*This measurement varies depending on the amount of inset you desire.



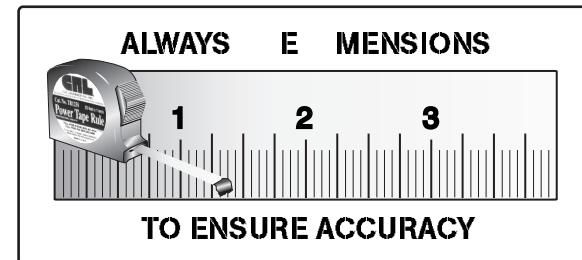
Important: Project measurements from the edge of the glass.

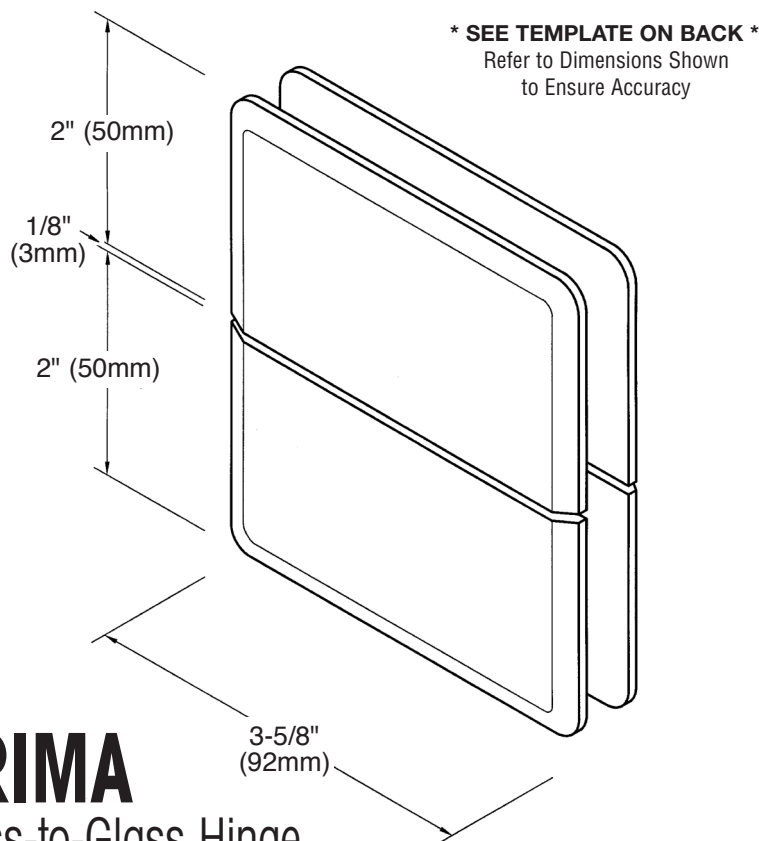
PRIMA

EZ-Adjust Header Mount Hinge

CAT. No. PPH06

EZ-Adjust Header Mount Inset Method





PRIMA
Glass-to-Glass Hinge
CAT. No. PPH02

Edge Mount Preferred Method	1/8" (3mm) to 3/16" (5mm) clearance	...Page 4G-10
Edge Mount Alternate Method	1/8" (3mm) to 3/16" (5mm) clearance	...Page 4G-11
Inset Mount Method	1/8" (3mm) to 3/16" (5mm) clearance	...Page 4G-12
Transom Mount Method	3/16" (5mm) clearance	...Page 4G-13

*Maximum Door Capacities	5/16" (8mm) Glass		3/8" (10mm) Glass	
	Weight	Width	Weight	Width
Using 2 Hinges	100 lbs.(46 kg)	31"(787mm)	100 lbs.(46 kg)	31"(787mm)

*NOTE: Do not exceed either maximum weight or width when choosing proper quantity of hinges.

Important Information:

Template Options: The Glass-to-Glass Mount PPH02 Hinge offers numerous choices of templates. Refer to the lower left hand corner of this page for the various selections. If using an Edge Mount Template, the capabilities of your temperer may determine your choice of Preferred or Alternate Methods. The Preferred Method has a full leg cutout that allows a full length vertical seal on the hinge side. The Alternate Methods all have a short leg cutout, resulting in an interrupted seal.

The Inset Mount Template is beneficial for two reasons. It allows a full length vertical seal. Also, by inseting the hinge a certain distance towards the center of the door, it enables the door to avoid hitting a towel bar, or some other protrusion from the wall.

Optional Pivot Pins: Optional 5° Pivot Pins (Cat. No. P1VP1N) are sold as a set, one pin for the top hinge and one pin for the bottom hinge. These 5° offset Pivot Pins allow the installer to adjust the closing position of the door 5° inwards or outwards.

Specifications:

Glass Sizes: 5/16" (8mm) to 3/8" (10mm) thick tempered safety glass

Construction: Solid brass

Closing Type: Self-centering when within 15° of closed position

Cutout Required

Includes: Gaskets, screws and template

Use of Gaskets:

For 5/16"(8mm) Glass: Use one thick gasket and one thin gasket on each side

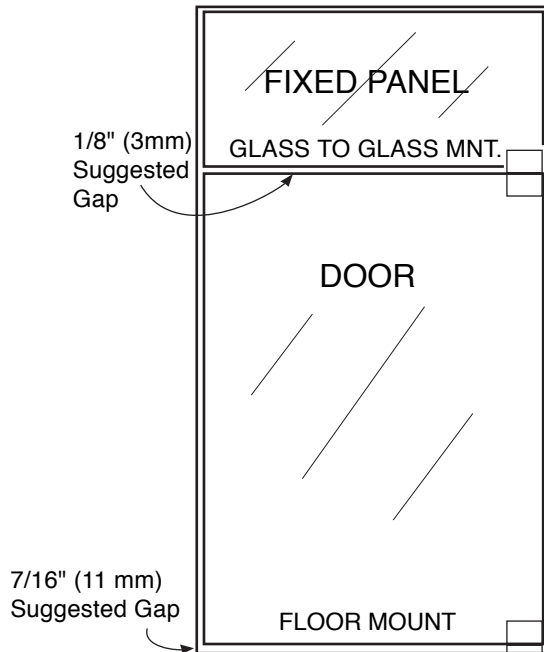
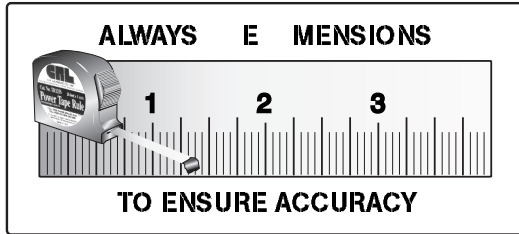
For 3/8"(10mm) Glass: Use one thick gasket on each side

Recommendations:

For public safety, we recommend the use of only tempered safety glass. Do not use power tools when installing these hinges.

Maintenance Guidelines:

- Never use an abrasive cleaner on the hardware. Many of the components are coated with a clear lacquer that will be irreparably damaged if subjected to harsh, abrasive chemicals. Advise your customer that drying the hardware with a clean, soft towel on a daily basis is the best way to maintain the hardware. If mineral deposits build-up, mix a couple of drops of a mild liquid soap (such as Ivory or a similar product) into a cup of warm water. Using a soft, non-abrasive cloth, clean the hardware. Rinse thoroughly with clean, warm water and dry.



PRIMA

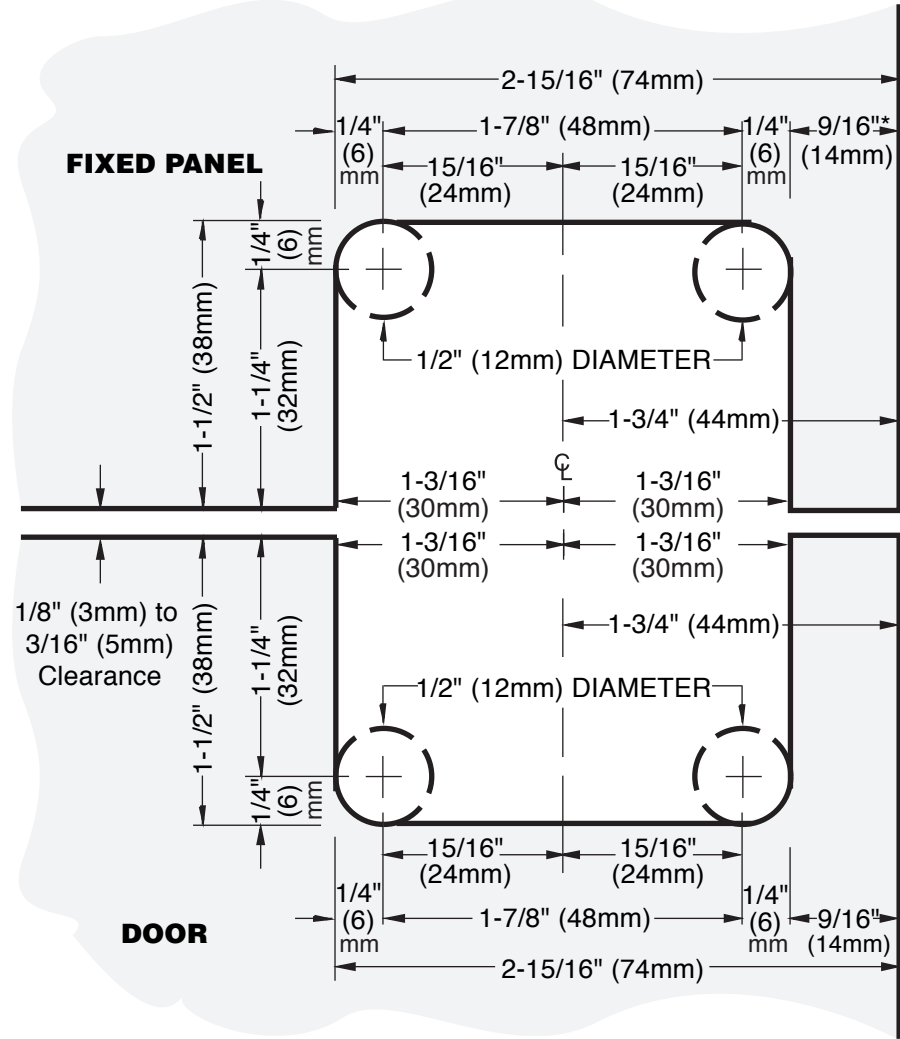
Glass-to-Glass Hinge

CAT. No. PPH02

Edge Mount Preferred Method 1/8" (3mm) to 3/16" (5mm) clearance

IMPORTANT:

Project measurements from the edge of the glass.



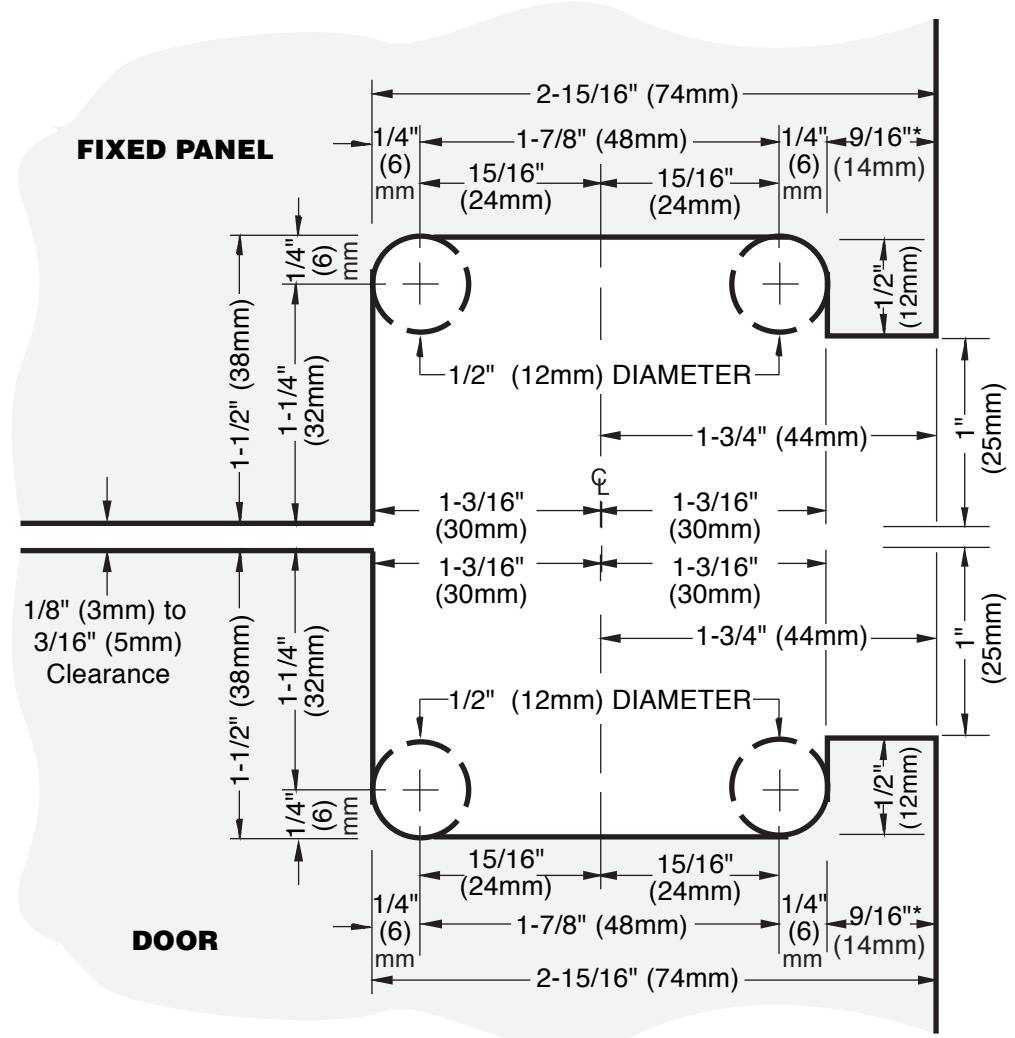
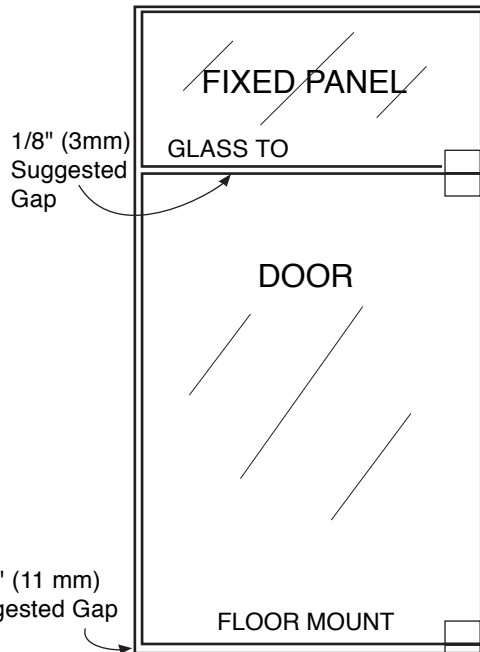
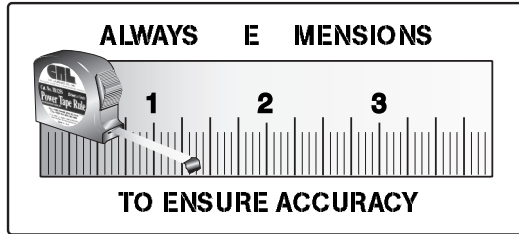
* The 9/16" (14mm) measurement is ok as long as the fixed panel side clearance is the same as the door side clearance. If not, make the appropriate add-on or deduction.



C.R. LAURENCE CO., INC.
PROFESSIONAL QUALITY

IMPORTANT:

Project measurements from the edge of the glass.



PRIMA
Glass-to-Glass Hinge

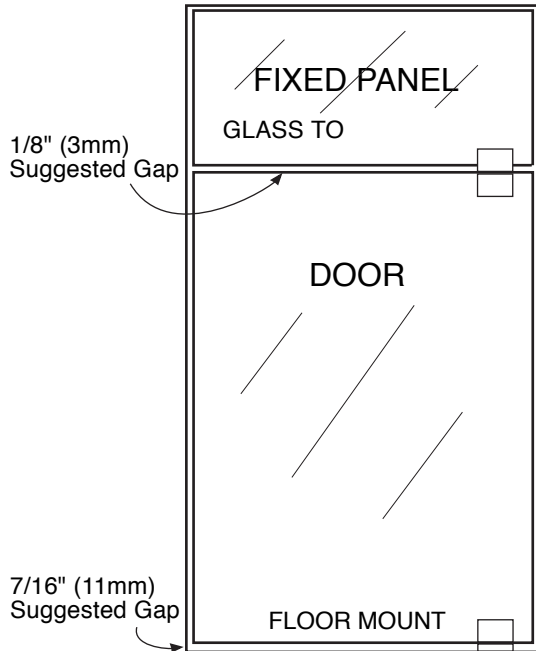
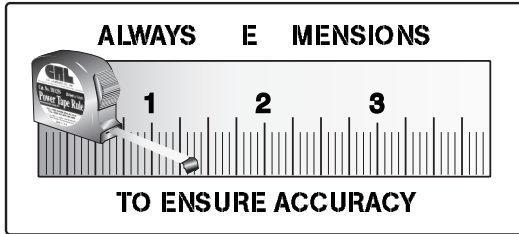
Cat. No. PPH02

Edge Mount Alternate Method 1/8" (3mm) to 3/16" (5mm) clearance

* The 9/16" (14mm) measurement is ok as long as the fixed panel side clearance is the same as the door side clearance. If not, make the appropriate add-on or deduction.



C.R. LAURENCE CO., INC.
PROFESSIONAL QUALITY



PRIMA

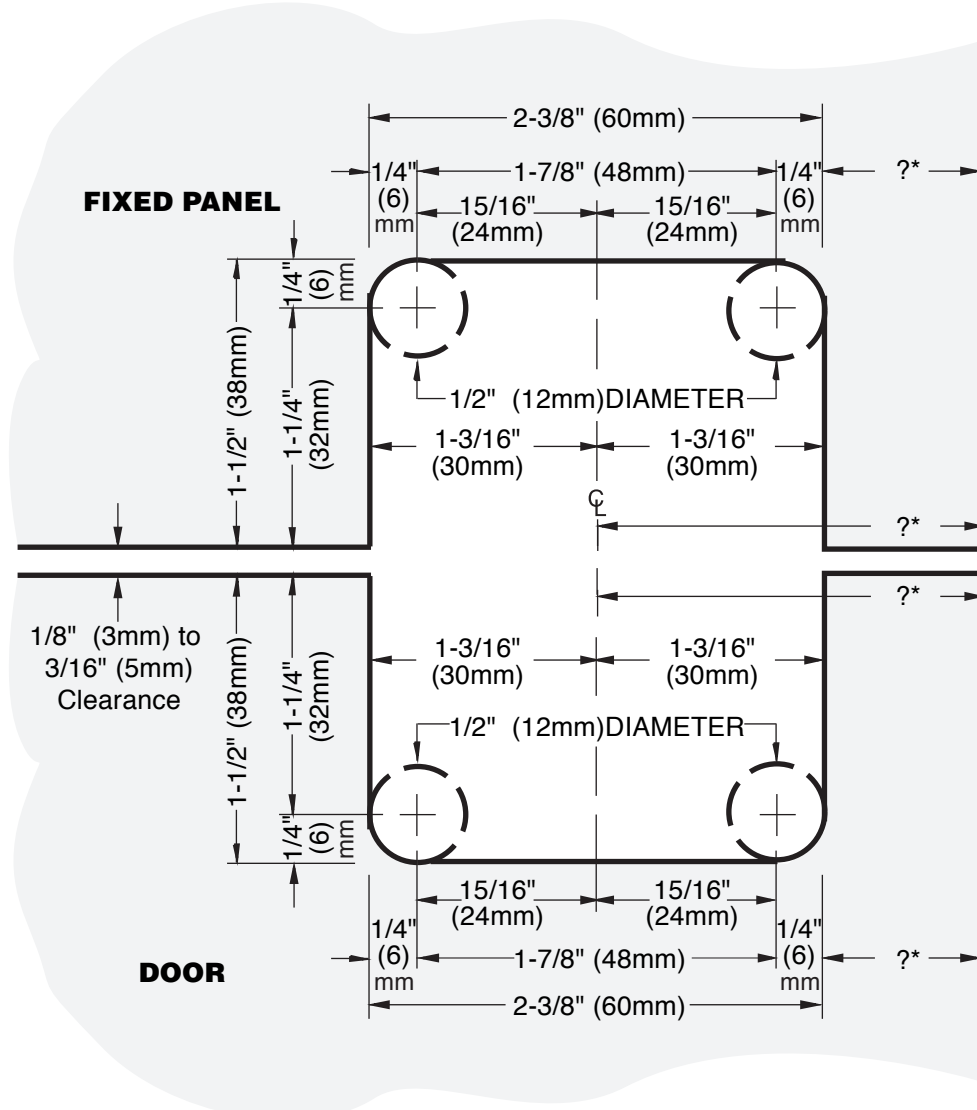
Glass-to-Glass Hinge

CAT. No. PPH02

Inset Mount Method 1/8" (3mm) to 3/16" (5mm) clearance

IMPORTANT:

Project measurements from the edge of the glass.



*This measurement varies depending on the amount of inset you desire.

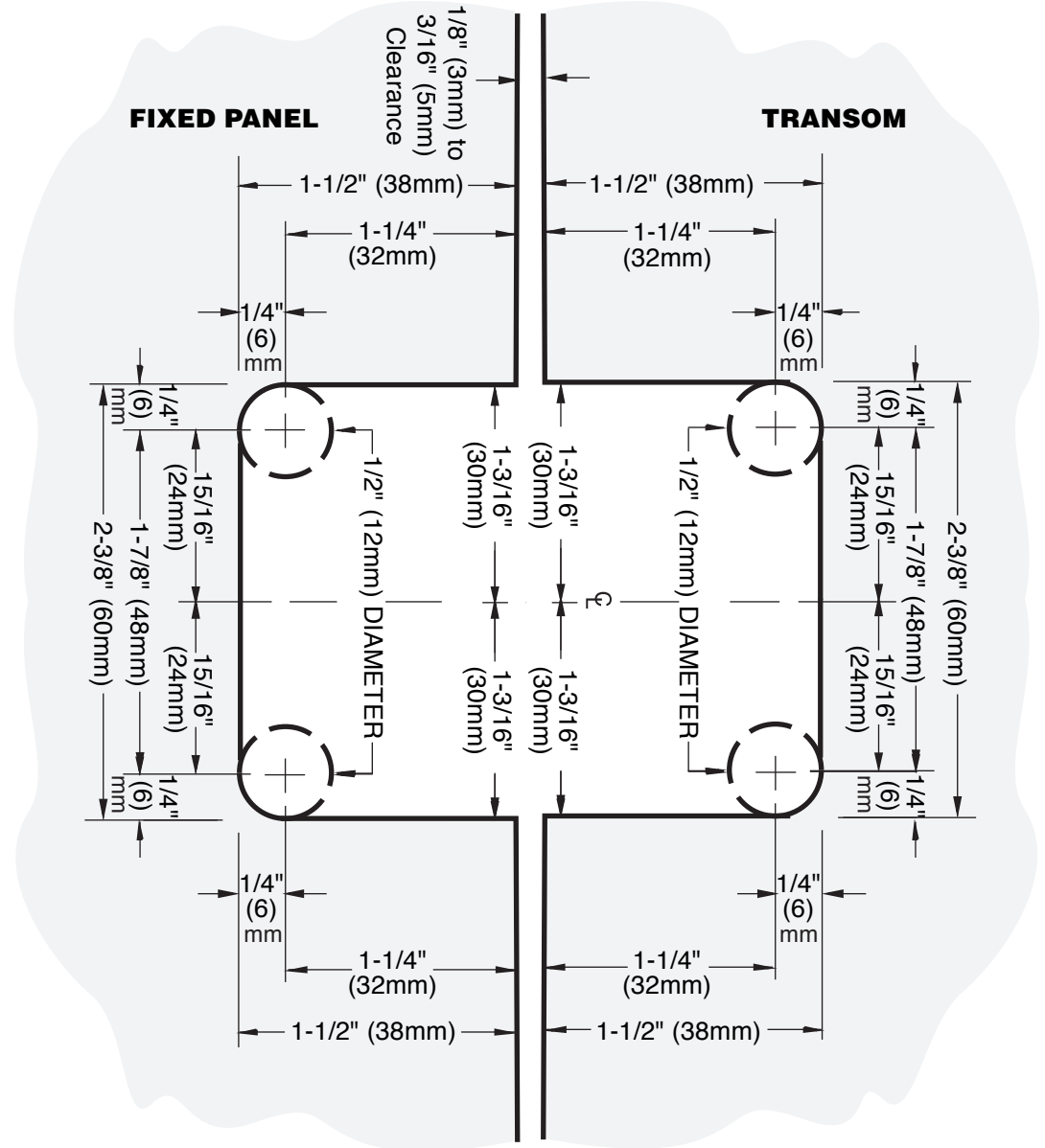
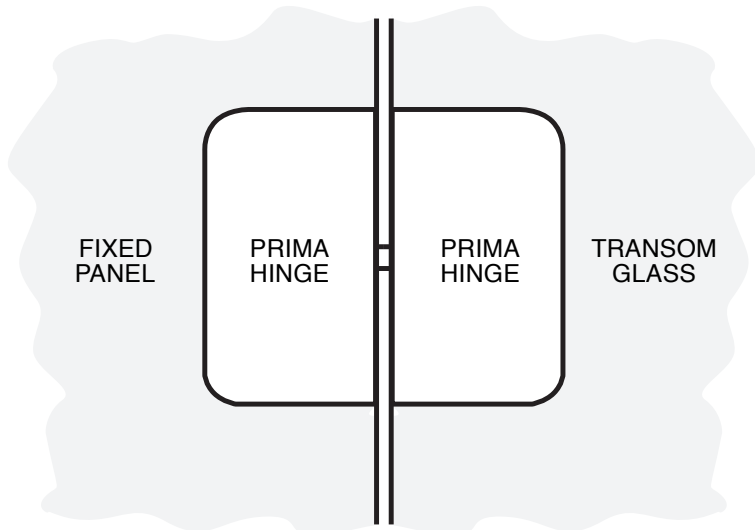
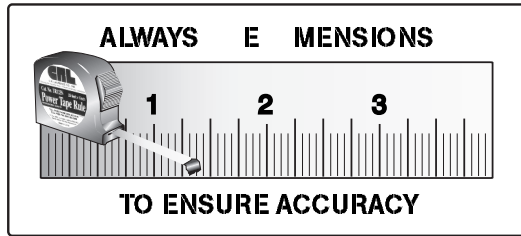
C.R. Laurence Co., Inc. For technical assistance in the United States call toll free (800) 421-6144; from Canada call toll free (877) 421-6144;
crlaurence.com Outside the U.S. and Canada call (323) 588-1281. Ask for Tech Sales at Extension 7740. Toll free fax (800) 458-7496.



C.R. LAURENCE CO., INC.
PROFESSIONAL QUALITY

IMPORTANT:

Project measurements from the edge of the glass.



PRIMA

Glass-to-Glass Hinge

Cat. No. PPH02

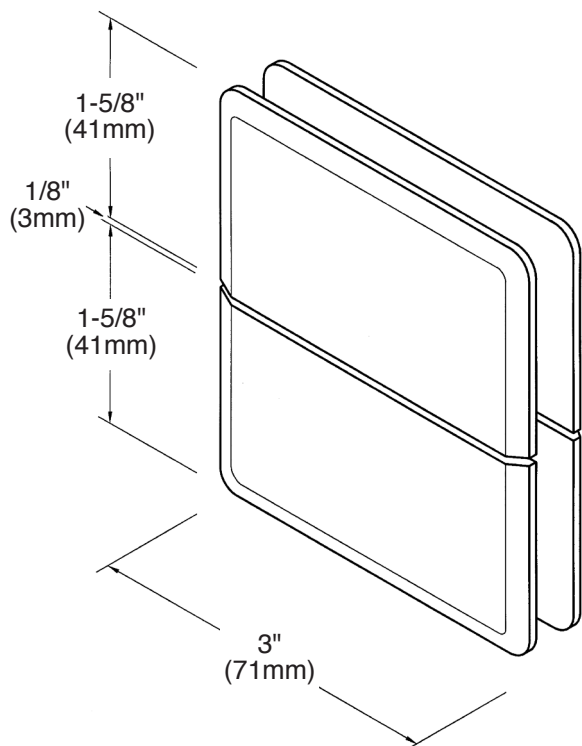
Transom Mount Method 1/8" (3mm) to 3/16" (5mm) clearance



C.R. Laurence Company has established a Technical Sales Department to assist our customers. If you have any questions concerning shower door hardware or any product from CRL, please contact us at:
(800) 421-6144 in the U.S.,
or (877) 421-6144 from Canada,
and ask for Extension 7740



C.R. LAURENCE CO., INC.
PROFESSIONAL QUALITY



JUNIOR PRIMA

Glass-to-Glass Hinge

CAT. No. JRPPH02

- Edge Mount Option (full leg) 1/8" (3mm) clearance
- Edge Mount Option (short leg) 1/8" (3mm) clearance
- Inset Mount Option 1/8" (3mm) clearance

*** SEE TEMPLATE ON BACK ***
Refer to Dimensions Shown
to Ensure Accuracy

*Maximum Door Capacities	1/4" (6mm) Glass Weight	Width
Using 2 Hinges	62 lbs.(28 kg)	28"(711mm)

***NOTE:** Do not exceed either maximum weight or width when choosing proper quantity of hinges.

Important Information:

Template Options: The Glass-to-Glass Mount JRPPH02 Hinge offers numerous choices of templates. If using an Edge Mount Template, the capabilities of your temperer may determine your choice of Full Leg or Short Leg Methods. The Full Leg Method has a full leg cutout that allows a full length vertical seal on the hinge side. The Short Leg Method has a short leg cutout, resulting in an interrupted seal.

The Inset Mount Template is beneficial for two reasons. It allows a full length vertical seal. Also, by inseting the hinge a certain distance towards the center of the door, it enables the door to avoid hitting a towel bar, or some other protrusion from the wall.

Optional Pivot Pins: Optional 5° Pivot Pins (Cat. No. JRP1VP1N) are sold as a set, one pin for the top hinge and one pin for the bottom hinge. These 5° offset Pivot Pins allow the installer to adjust the closing position of the door 5° inwards or outwards.

Specifications:

- Glass Sizes:** 1/4" (6mm) thick tempered safety glass
- Construction:** Solid brass
- Closing Type:** Self-centering when within 15° of closed position
- Cutout Required**
- Includes:** Gaskets, screws and template

Use of Gaskets:

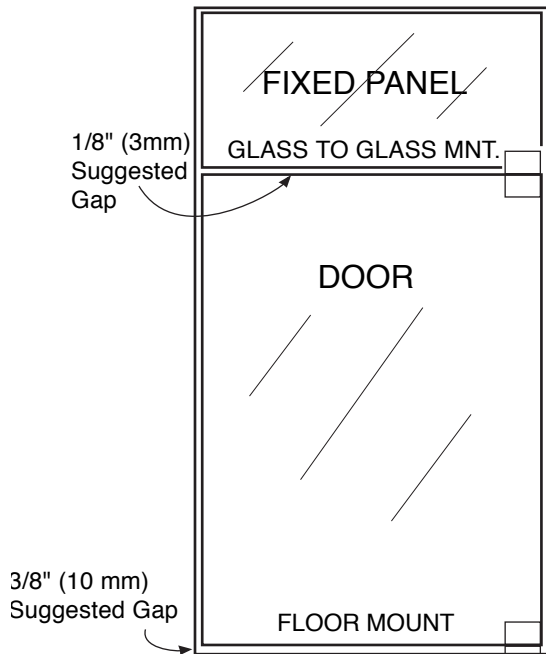
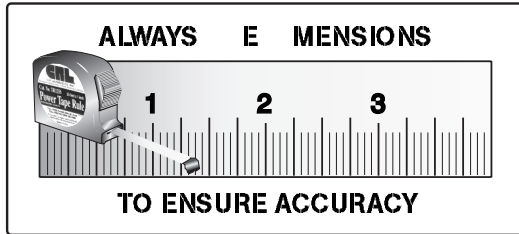
For 1/4" (6mm) Glass: Use one thick gasket on each side

Recommendations:

For public safety, we recommend the use of only tempered safety glass. Do not use power tools when installing these hinges.

Maintenance Guidelines:

- Never use an abrasive cleaner on the hardware. Many of the components are coated with a clear lacquer that will be irreparably damaged if subjected to harsh, abrasive chemicals. Advise your customer that drying the hardware with a clean, soft towel on a daily basis is the best way to maintain the hardware. If mineral deposits build-up, mix a couple of drops of a mild liquid soap (such as Ivory or a similar product) into a cup of warm water. Using a soft, non-abrasive cloth, clean the hardware. Rinse thoroughly with clean, warm water and dry.



JUNIOR PRIMA

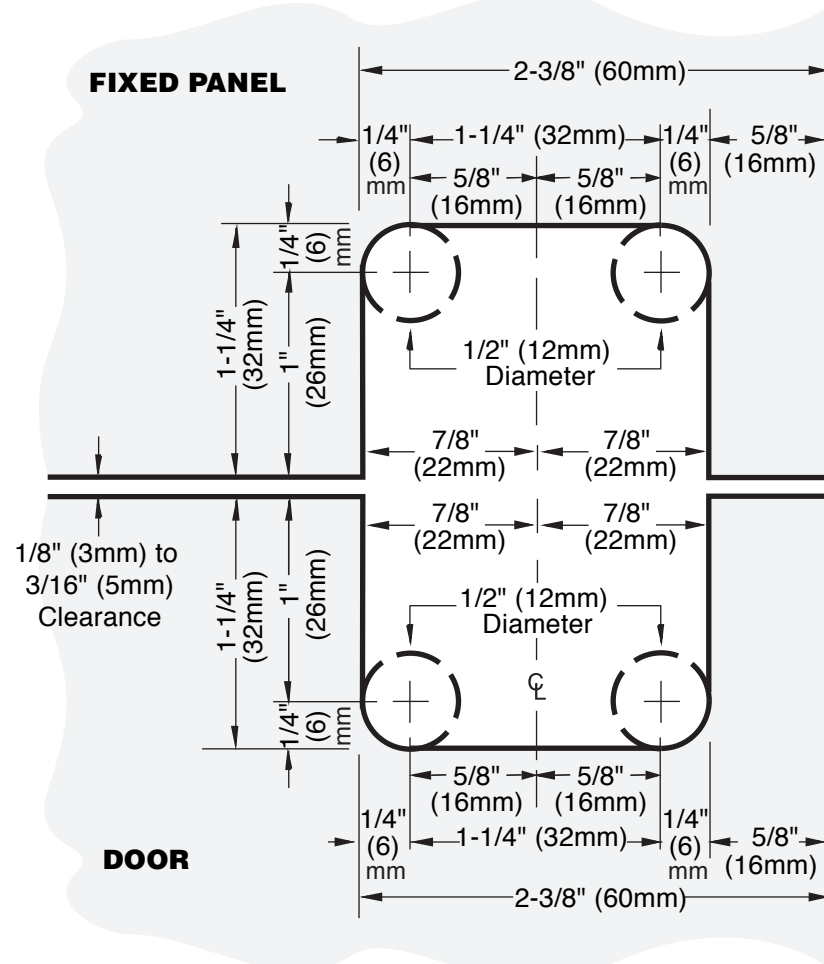
Glass-to-Glass Hinge

CAT. No. JRPPH02

Edge Mount Option (full leg) 1/8" (3mm) to 3/16" (5mm) clearance

IMPORTANT:

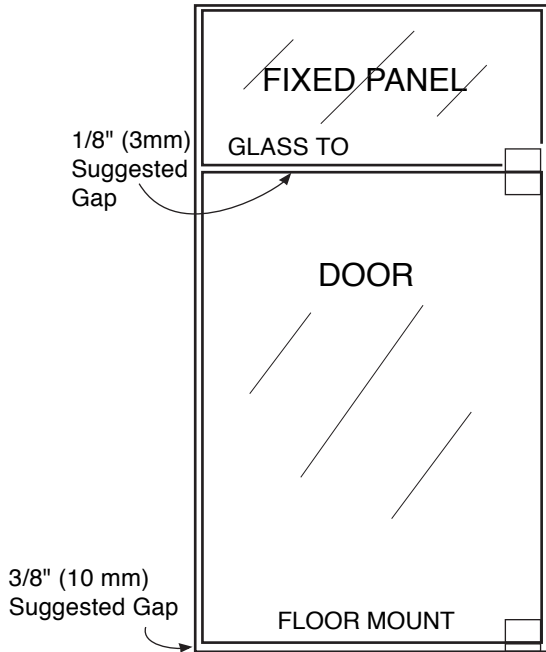
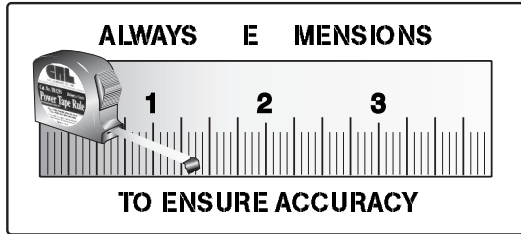
Project measurements from the edge of the glass.



* The 5/8" (16mm) measurement is ok as long as the fixed panel side clearance is the same as the door side clearance. If not, make the appropriate add-on or deduction.



C.R. LAURENCE CO., INC.
PROFESSIONAL QUALITY



JUNIOR PRIMA

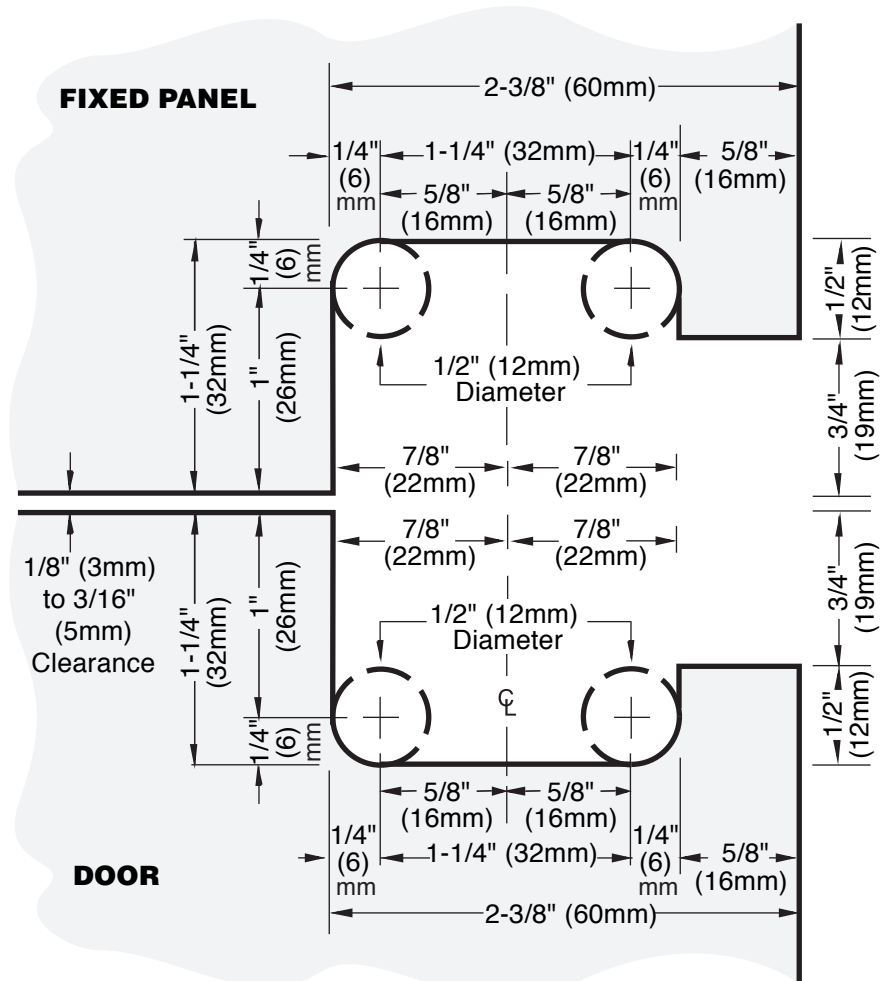
Glass-to-Glass Hinge

Cat. No. JRPPH02

Edge Mount Option (short leg) 3/8" (10mm) clearance

IMPORTANT:

Project measurements from the edge of the glass.

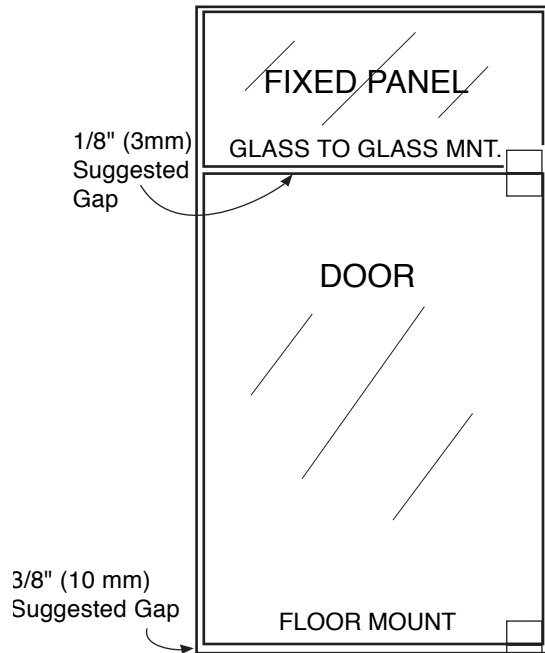
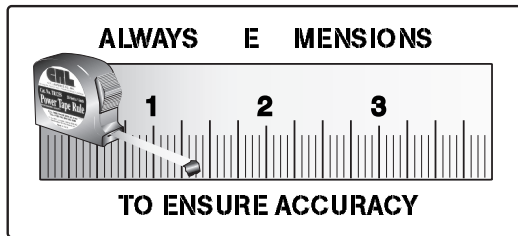


* The 5/8" (16mm) measurement is ok as long as the fixed panel side clearance is the same as the door side clearance. If not, make the appropriate add-on or deduction.



IMPORTANT:

Project measurements from the edge of the glass.

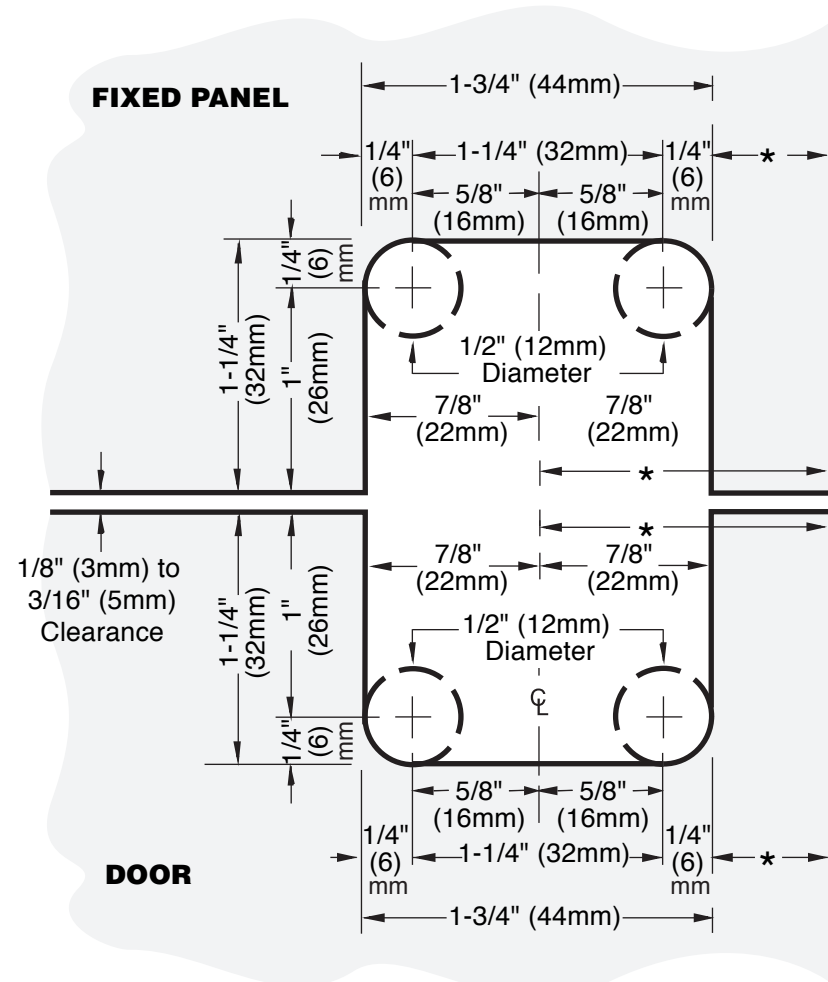


JUNIOR PRIMA

Glass-to-Glass Hinge

Cat. No. JRPPH02

Inset Option 1/8" (3mm) to 3/16" (5mm) clearance



* This measurement varies depending on the amount of inset your desire.



Important Information:

Template Options: The Top or Bottom Mount CAR01 Hinge offers numerous choices of templates. Refer to the lower left hand corner of this page for the various selections. If using an Edge Mount Template, the capabilities of your temperer may determine your choice of Preferred or Alternate Methods. The Preferred Method has a full leg cutout that allows a full length vertical seal on the hinge side. The Alternate Methods all have a short leg cutout, resulting in an interrupted seal.

The Inset Mount Template is beneficial for two reasons. It allows a full length vertical seal. Also, by inseting the hinge a certain distance towards the center of the door, it enables the door to avoid hitting a towel bar, or some other protrusion from the wall.

Vertical Clearances: If using the Top or Bottom Mount CAR01 Hinges with the CRL Deluxe Header Kit, DISREGARD the suggested top clearance instructions shown on these templates. For vertical deductions using the Header Kit, refer to page 2-22 in Section 2.

Optional Pivot Pins: Optional 5° Pivot Pins (Cat. No. P1VP1N) are sold as a set, one pin for the top hinge and one pin for the bottom hinge. These 5° offset Pivot Pins allow the installer to adjust the closing position of the door 5° inwards or outwards.

Specifications:

Glass Sizes: 5/16" (8mm) to 3/8" (10mm) thick tempered safety glass

Construction: Solid brass

Closing Type: Self-centering when within 15° of closed position

Cutout Required

Includes: Gaskets, screws and template

Use of Gaskets:

For 5/16"(8mm) Glass: Use one thick gasket and one thin gasket on each side

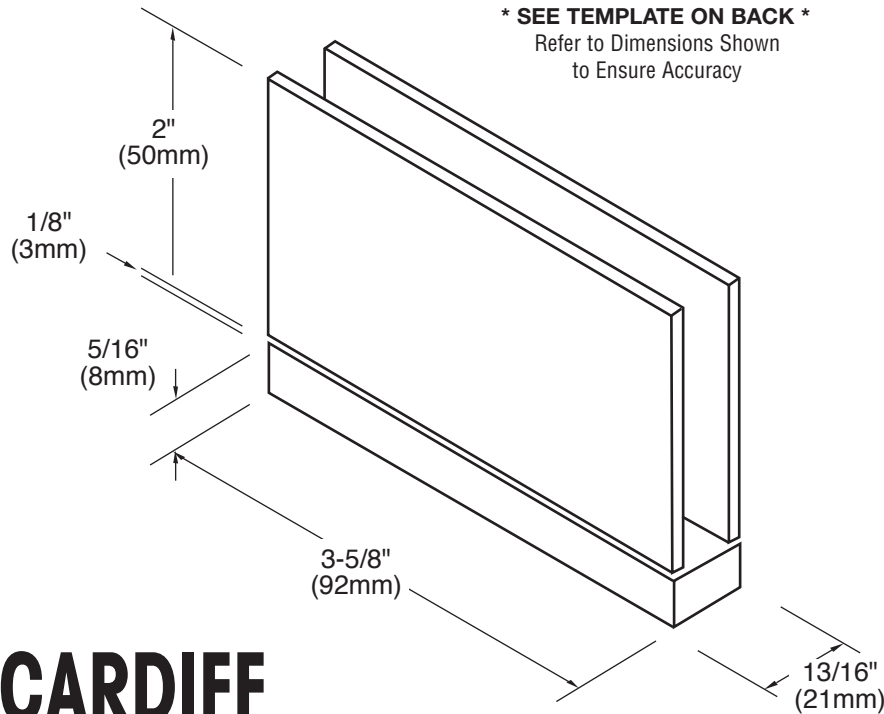
For 3/8"(10mm) Glass: Use one thick gasket on each side

Recommendations:

For public safety, we recommend the use of only tempered safety glass. Do not use power tools when installing these hinges.

Maintenance Guidelines:

- Never use an abrasive cleaner on the hardware. Many of the components are coated with a clear lacquer that will be irreparably damaged if subjected to harsh, abrasive chemicals. Advise your customer that drying the hardware with a clean, soft towel on a daily basis is the best way to maintain the hardware. If mineral deposits build-up, mix a couple of drops of a mild liquid soap (such as Ivory or a similar product) into a cup of warm water. Using a soft, non-abrasive cloth, clean the hardware. Rinse thoroughly with clean, warm water and dry.



CARDIFF

Top or Bottom Mount Hinge

CAT. No. CAR01

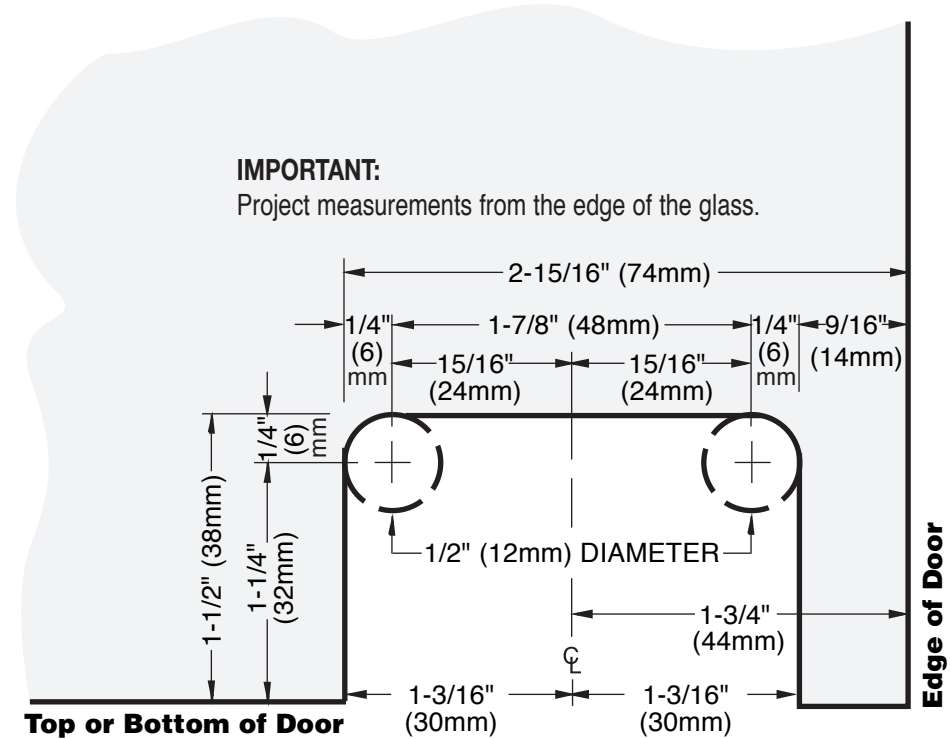
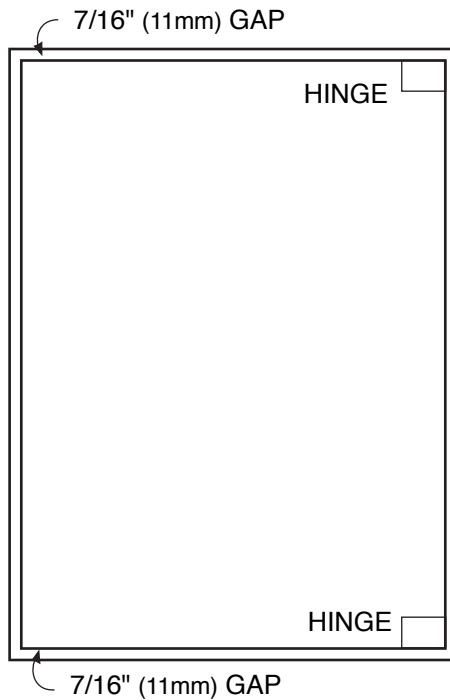
Edge Mount Preferred Method	7/16" (11mm) Clearance	Page 4H-18
Edge Mount Alternate Method	7/16" (11mm) Clearance	Page 4H-19
Edge Mount Alternate Method	1/8" (3mm) Clearance	Page 4H-20
Edge Mount Alternate Method	3/16" (5mm) Clearance	Page 4H-21
Inset Mount Method	7/16" (11mm) Clearance	Page 4H-22
Transom Mount Method	3/16" (5mm) Clearance	Page 4H-23

*Maximum Door Capacities	5/16" (8mm) Glass		3/8" (10mm) Glass	
	Weight	Width	Weight	Width
Using 2 Hinges	100 lbs.(46 kg)	31"(787mm)	100 lbs.(46 kg)	31"(787mm)

*NOTE: Do not exceed either maximum weight or width when choosing proper quantity of hinges.



Note: Disregard vertical clearances shown if using CRL Deluxe Header Kit. See page 2-22 for vertical deductions.

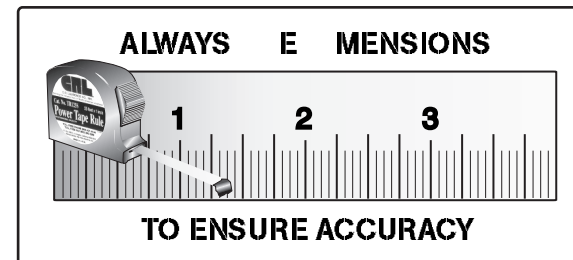


CARDIFF

Top or Bottom Mount Hinge

CAT. No. CAR01

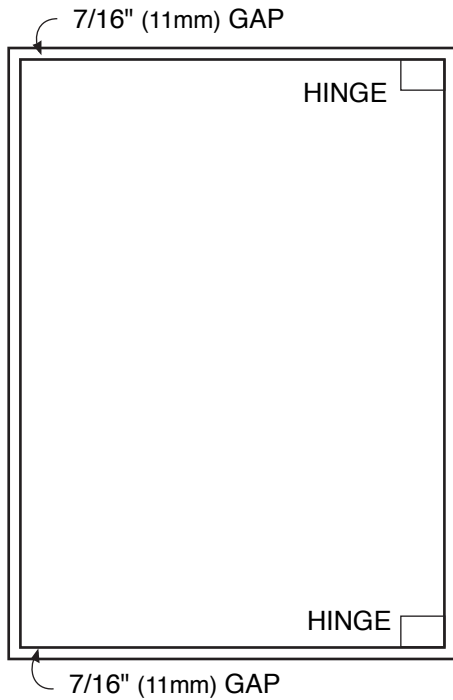
Edge Mount Preferred Method 7/16" (11mm) Clearance





C.R. LAURENCE CO., INC.
PROFESSIONAL QUALITY

Note: Disregard vertical clearances shown if using CRL Deluxe Header Kit. See page 2-22 for vertical deductions.

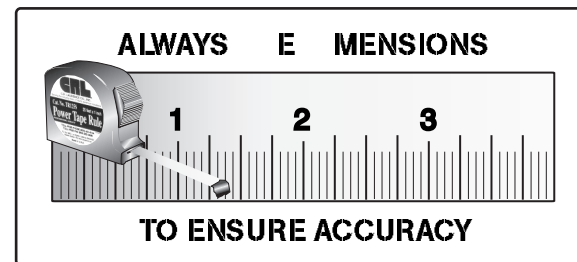
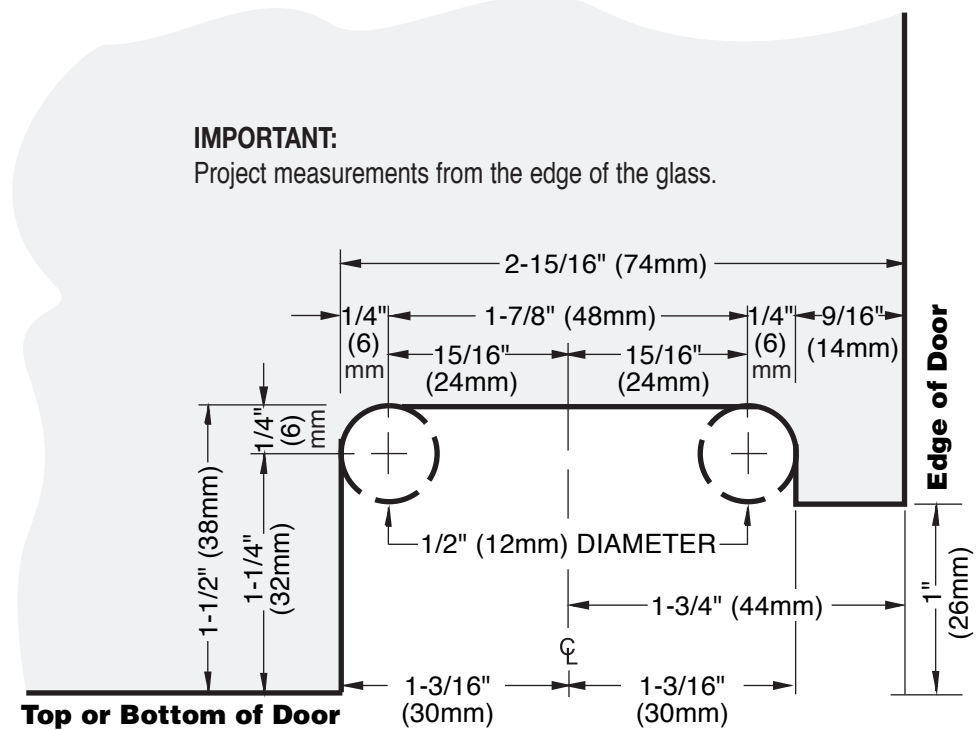


CARDIFF

Top or Bottom Mount Hinge

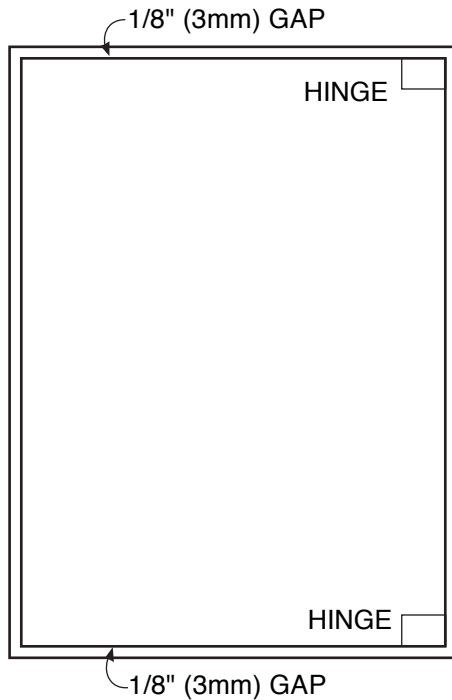
CAT. No. CAR01

Edge Mount Alternate Method 7/16" (11mm) Clearance



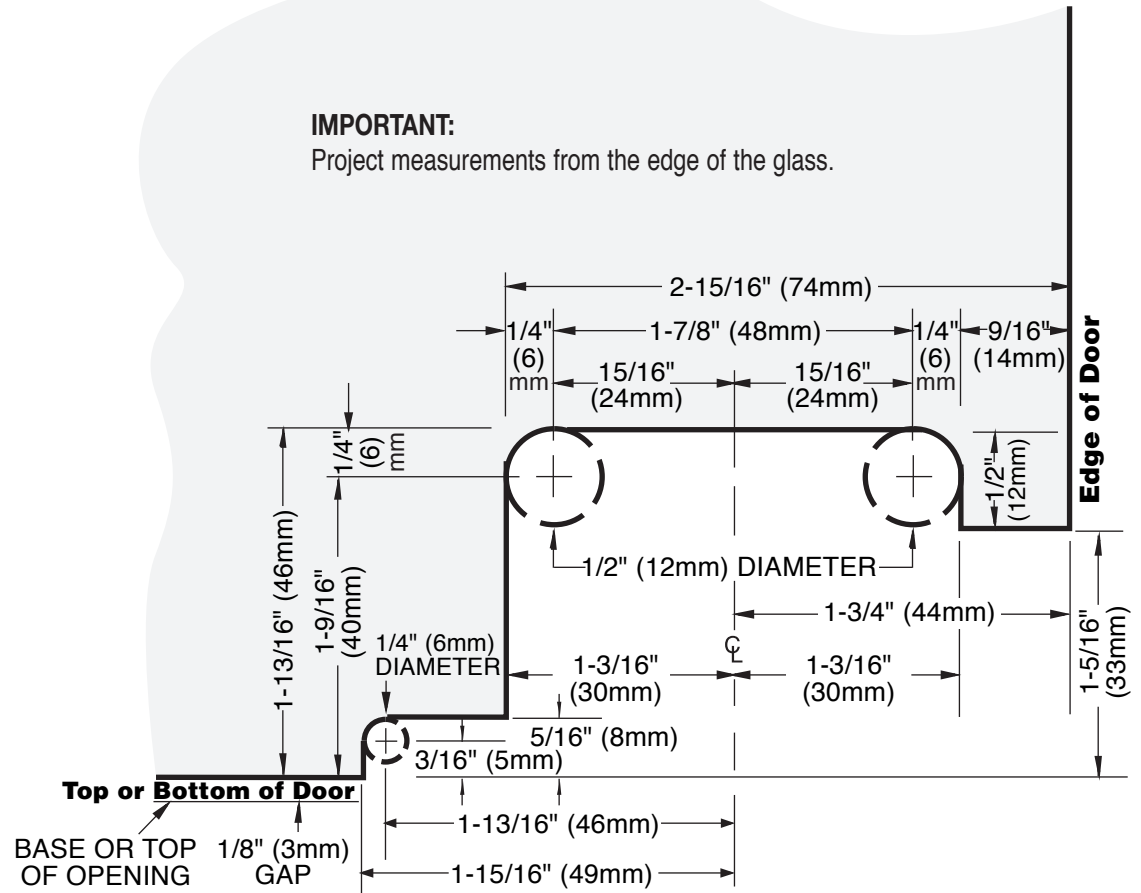


Note: Disregard vertical clearances shown if using CRL Deluxe Header Kit. See page 2-22 for vertical deductions.



IMPORTANT:

Project measurements from the edge of the glass.

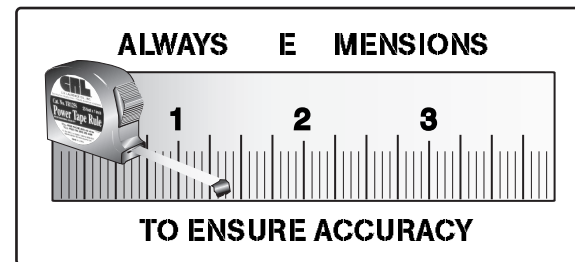


CARDIFF

Top or Bottom Mount Hinge

CAT. No. CAR01

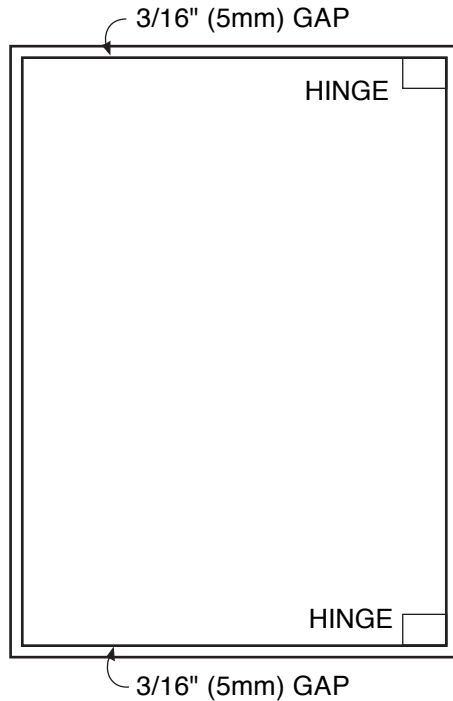
Edge Mount Alternate Method 1/8" (3mm) Clearance





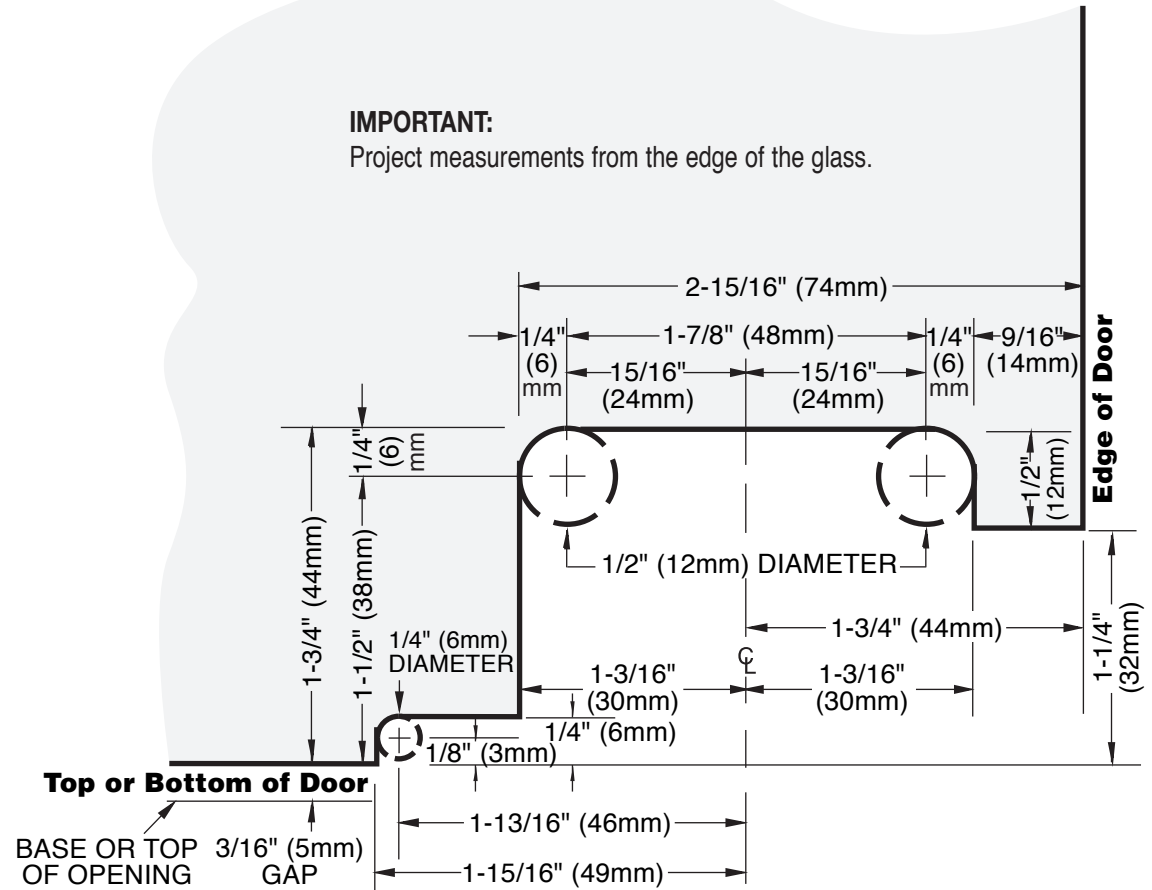
C.R. LAURENCE CO., INC.
PROFESSIONAL QUALITY

Note: Disregard vertical clearances shown if using CRL Deluxe Header Kit. See page 2-22 for vertical deductions.



IMPORTANT:

Project measurements from the edge of the glass.

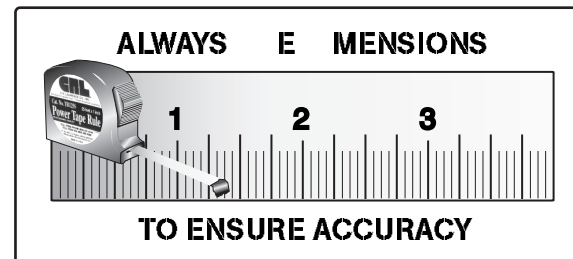


CARDIFF

Top or Bottom Mount Hinge

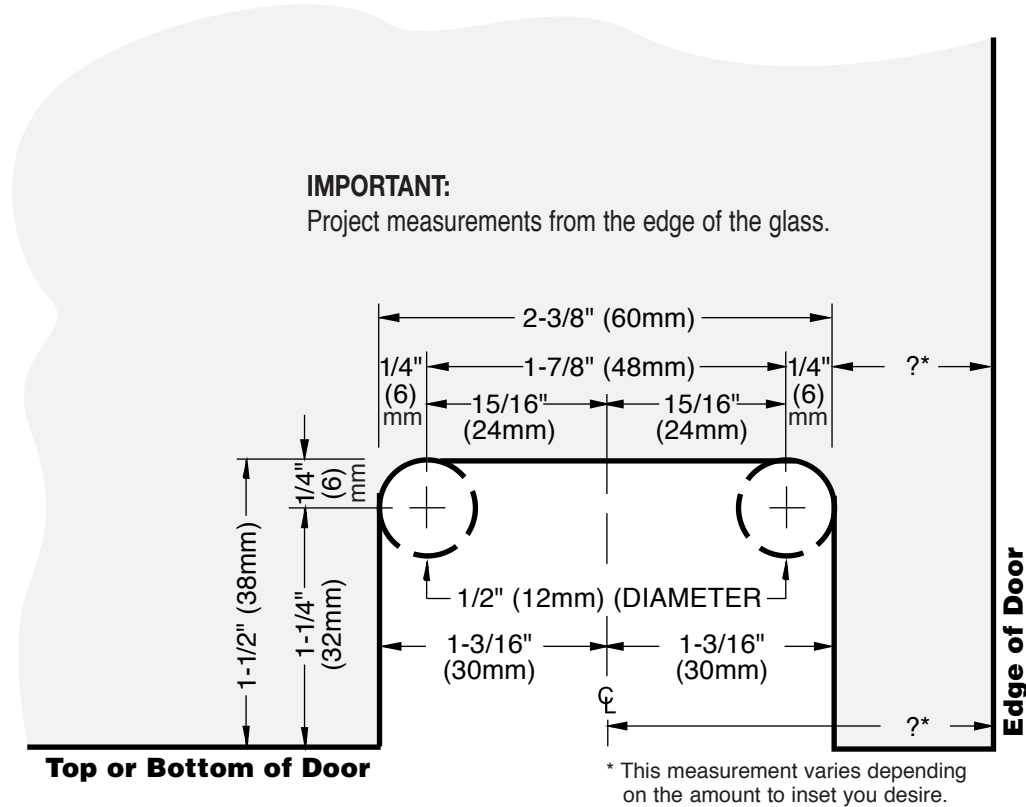
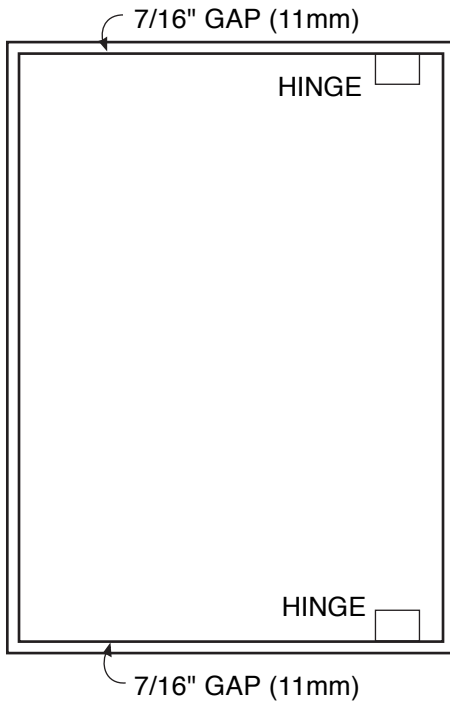
CAT. No. CAR01

Edge Mount Alternate Method 3/16" (5mm) clearance





Note: Disregard vertical clearances shown if using CRL Deluxe Header Kit. See page 2-22 for vertical deductions.

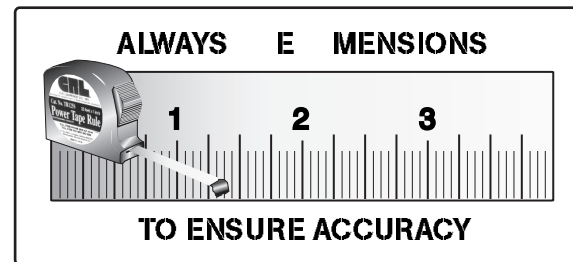


CARDIFF

Top or Bottom Mount Hinge

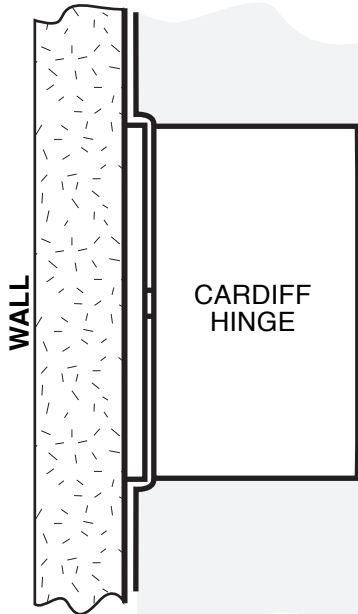
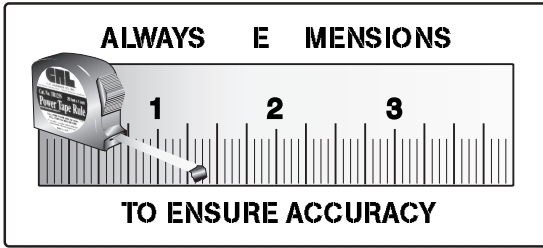
CAT. No. CAR01

Inset Mount Method 7/16" (11mm) clearance





C.R. LAURENCE CO., INC.
PROFESSIONAL QUALITY



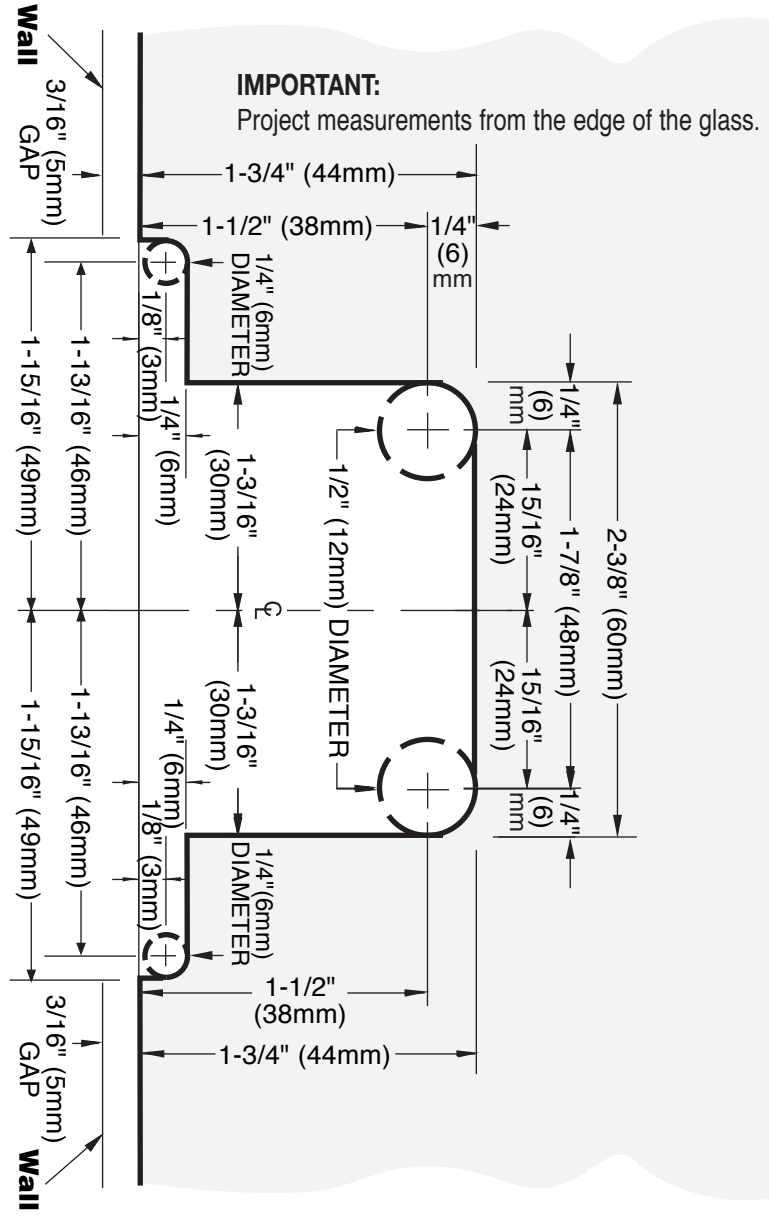
CARDIFF

Top or Bottom Mount Hinge

Cat. No. CAR01

Transom Mount Method

3/16" (5mm) clearance

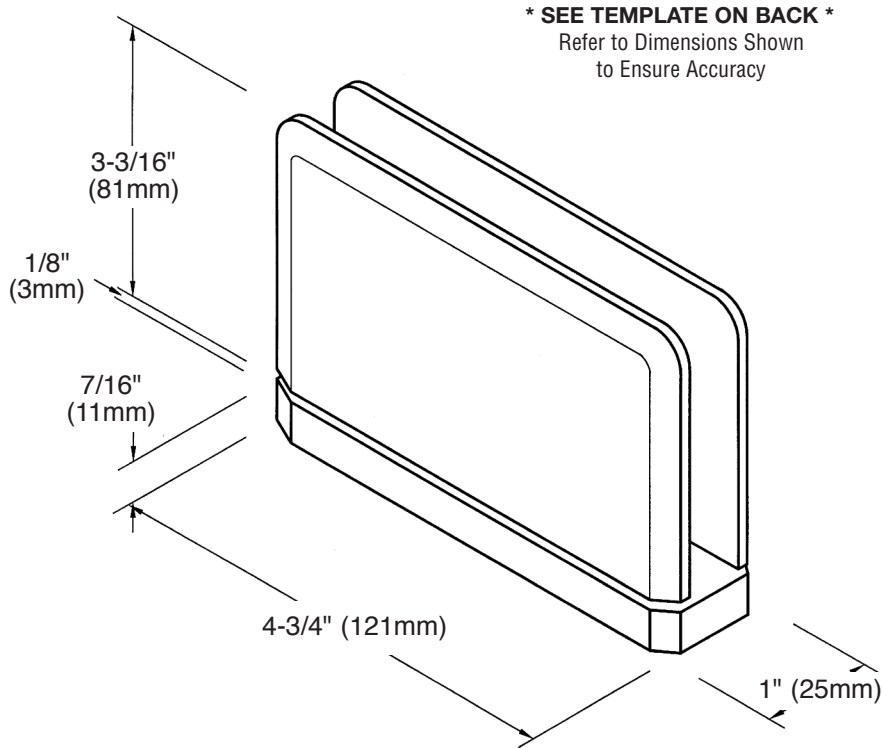




C.R. Laurence Company has established a Technical Sales Department to assist our customers. If you have any questions concerning shower door hardware or any product from CRL, please contact us at:
(800) 421-6144 in the U.S.,
or (877) 421-6144 from Canada,
and ask for Extension 7740



C.R. LAURENCE CO., INC.
PROFESSIONAL QUALITY



SENIOR PRIMA

Top or Bottom Mount Hinge

CAT. No. SRPPH01

Edge Mount Method (9/16" (14mm) Clearance)Page 4H-2
 Inset Mount Method (9/16" (14mm) Clearance)Page 4H-3

*Maximum Door Capacities	1/2" (12mm) Glass Weight	Glass Width
Using 2 Hinges	145 lbs.(66 kg)	36"(914mm)

*NOTE: Do not exceed either maximum weight or width when choosing proper quantity of hinges.

Important Information:

Template Options: The Top or Bottom Mount SRPPH01 Hinge offers two choices of templates. Refer to the lower left hand corner of this page for the selections. The Edge Mount Template has a full leg cutout that allows a full length vertical seal on the hinge side. The Inset Mount Template enables the door to avoid hitting a towel bar, or some other protrusion from the wall.

Optional Pivot Pins: Optional 5° Pivot Pins (Cat. No. SRP1VP1N) are sold as a set, one pin for the top hinge and one pin for the bottom hinge. These 5° offset Pivot Pins allow the installer to adjust the closing position of the door 5° inwards or outwards.

Specifications:

Glass Sizes: 1/2"(12mm) thick tempered safety glass
Construction: Solid brass
Closing Type: Self-centering when within 15° of closed position
Cutout Required
Includes: Gaskets, screws and template

Use of Gaskets:

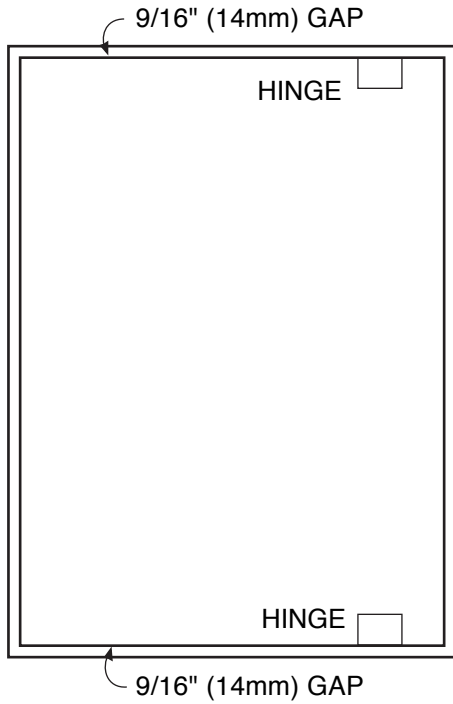
For 1/2" Glass: Use one thin gasket on one side and one thick gasket on the other side
For 12mm Glass: Use one thick gasket on both sides

Recommendations:

For public safety, we recommend the use of only tempered safety glass. Do not use power tools when installing these hinges.

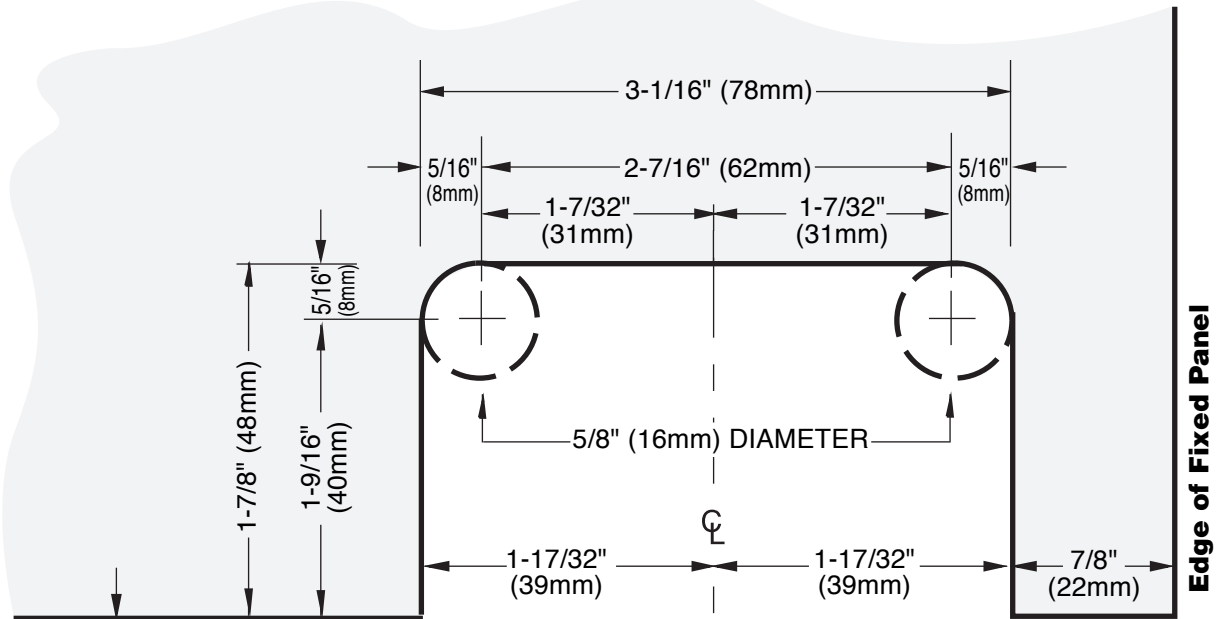
Maintenance Guidelines:

- Never use an abrasive cleaner on the hardware. Many of the components are coated with a clear lacquer that will be irreparably damaged if subjected to harsh, abrasive chemicals. Advise your customer that drying the hardware with a clean, soft towel on a daily basis is the best way to maintain the hardware. If mineral deposits build-up, mix a couple of drops of a mild liquid soap (such as Ivory or a similar product) into a cup of warm water. Using a soft, non-abrasive cloth, clean the hardware. Rinse thoroughly with clean, warm water and dry.



IMPORTANT:

Project measurements from the edge of the glass.

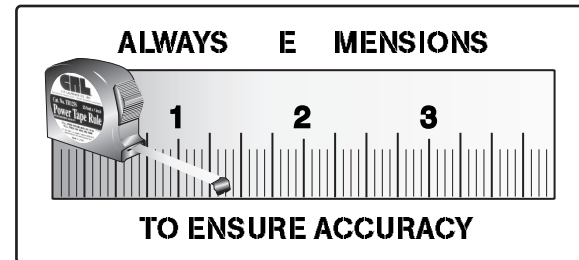


SENIOR PRIMA

Top or Bottom Mount Hinge

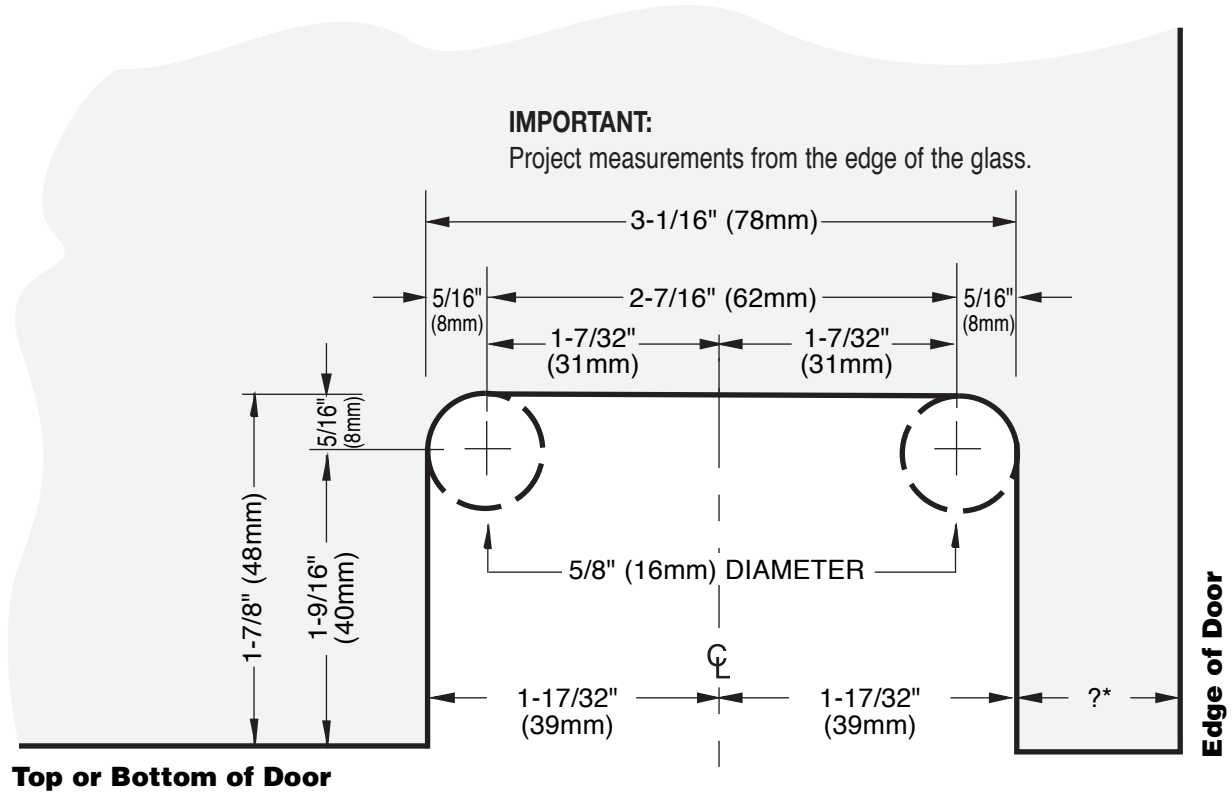
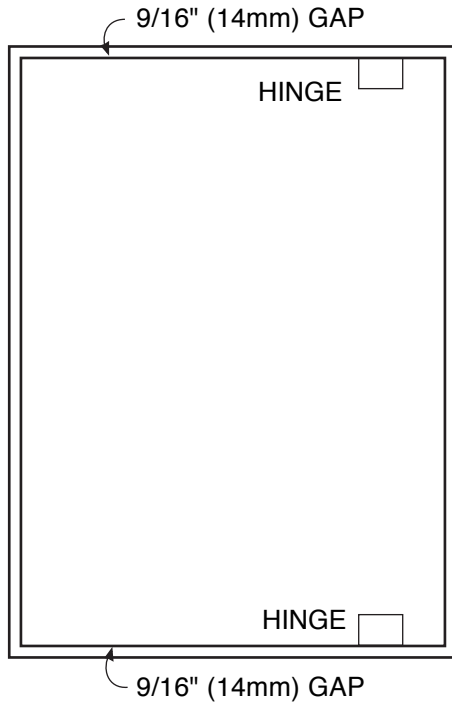
Cat. No. SRPPH01

Edge Mount Method (9/16" (14mm) Clearance)





C.R. LAURENCE CO., INC.
PROFESSIONAL QUALITY



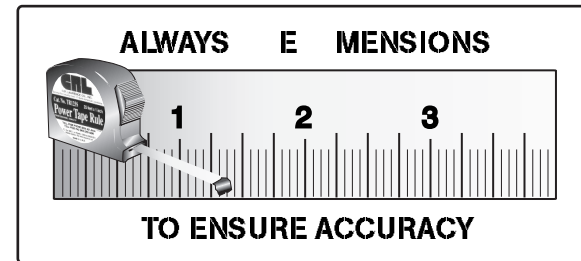
* This measurement varies depending on the amount of inset you desire.

SENIOR PRIMA

Top or Bottom Mount Hinge

Cat. No. SRPPH01

Inset Mount Method (9/16" (14mm) Clearance)

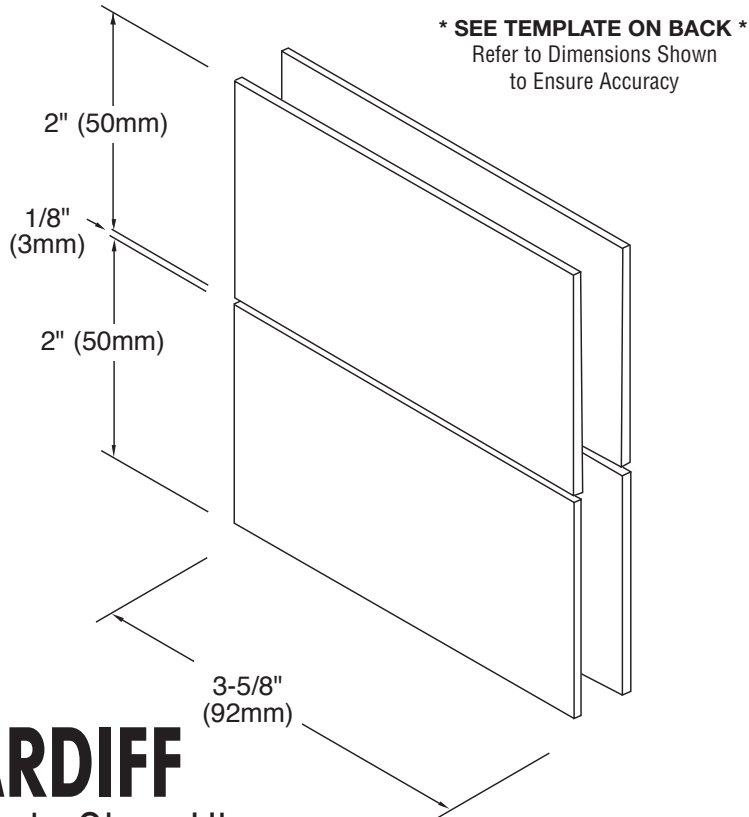




C.R. Laurence Company has established a Technical Sales Department to assist our customers. If you have any questions concerning shower door hardware or any product from CRL, please contact us at:
(800) 421-6144 in the U.S.,
or (877) 421-6144 from Canada,
and ask for Extension 7740



C.R. LAURENCE CO., INC.
PROFESSIONAL QUALITY



CARDIFF

Glass-to-Glass Hinge

Cat. No. CAR02

Edge Mount Preferred Method	1/8" (3mm) to 3/16" (5mm) clearance	...Page 4H-26
Edge Mount Alternate Method	1/8" (3mm) to 3/16" (5mm) clearance	...Page 4H-27
Inset Mount Method	1/8" (3mm) to 3/16" (5mm) clearance	...Page 4H-28
Transom Mount Method	3/16" (5mm) clearance	...Page 4H-29

*Maximum Door Capacities	5/16" (8mm) Glass		3/8" (10mm) Glass	
	Weight	Width	Weight	Width
Using 2 Hinges	100 lbs.(46 kg)	31"(787mm)	100 lbs.(46 kg)	31"(787mm)

*NOTE: Do not exceed either maximum weight or width when choosing proper quantity of hinges.

Important Information:

Template Options: The Glass-to-Glass Mount CAR02 Hinge offers numerous choices of templates. Refer to the lower left hand corner of this page for the various selections. If using an Edge Mount Template, the capabilities of your temperer may determine your choice of Preferred or Alternate Methods. The Preferred Method has a full leg cutout that allows a full length vertical seal on the hinge side. The Alternate Methods all have a short leg cutout, resulting in an interrupted seal.

The Inset Mount Template is beneficial for two reasons. It allows a full length vertical seal. Also, by inserting the hinge a certain distance towards the center of the door, it enables the door to avoid hitting a towel bar, or some other protrusion from the wall.

Optional Pivot Pins: Optional 5° Pivot Pins (Cat. No. P1VP1N) are sold as a set, one pin for the top hinge and one pin for the bottom hinge. These 5° offset Pivot Pins allow the installer to adjust the closing position of the door 5° inwards or outwards.

Specifications:

Glass Sizes: 5/16" (8mm) to 3/8" (10mm) thick tempered safety glass

Construction: Solid brass

Closing Type: Self-centering when within 15° of closed position

Cutout Required

Includes: Gaskets, screws and template

Use of Gaskets:

For 5/16"(8mm) Glass: Use one thick gasket and one thin gasket on each side

For 3/8"(10mm) Glass: Use one thick gasket on each side

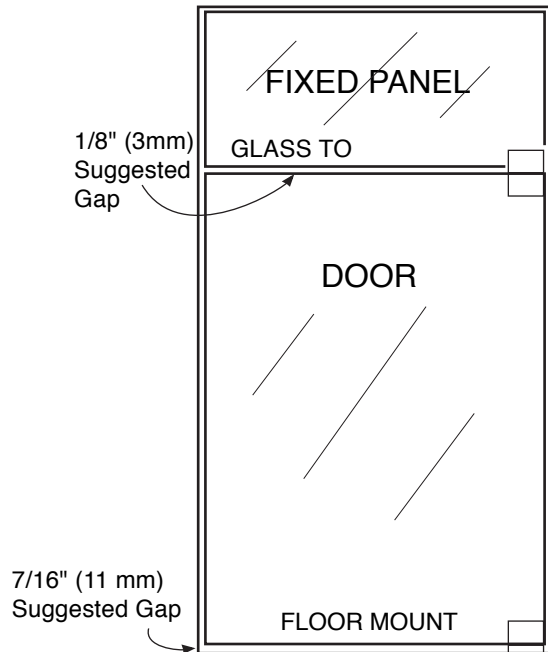
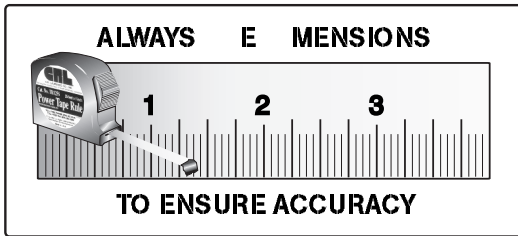
Recommendations:

For public safety, we recommend the use of only tempered safety glass.

Do not use power tools when installing these hinges.

Maintenance Guidelines:

- Never use an abrasive cleaner on the hardware. Many of the components are coated with a clear lacquer that will be irreparably damaged if subjected to harsh, abrasive chemicals. Advise your customer that drying the hardware with a clean, soft towel on a daily basis is the best way to maintain the hardware. If mineral deposits build-up, mix a couple of drops of a mild liquid soap (such as Ivory or a similar product) into a cup of warm water. Using a soft, non-abrasive cloth, clean the hardware. Rinse thoroughly with clean, warm water and dry.



CARDIFF

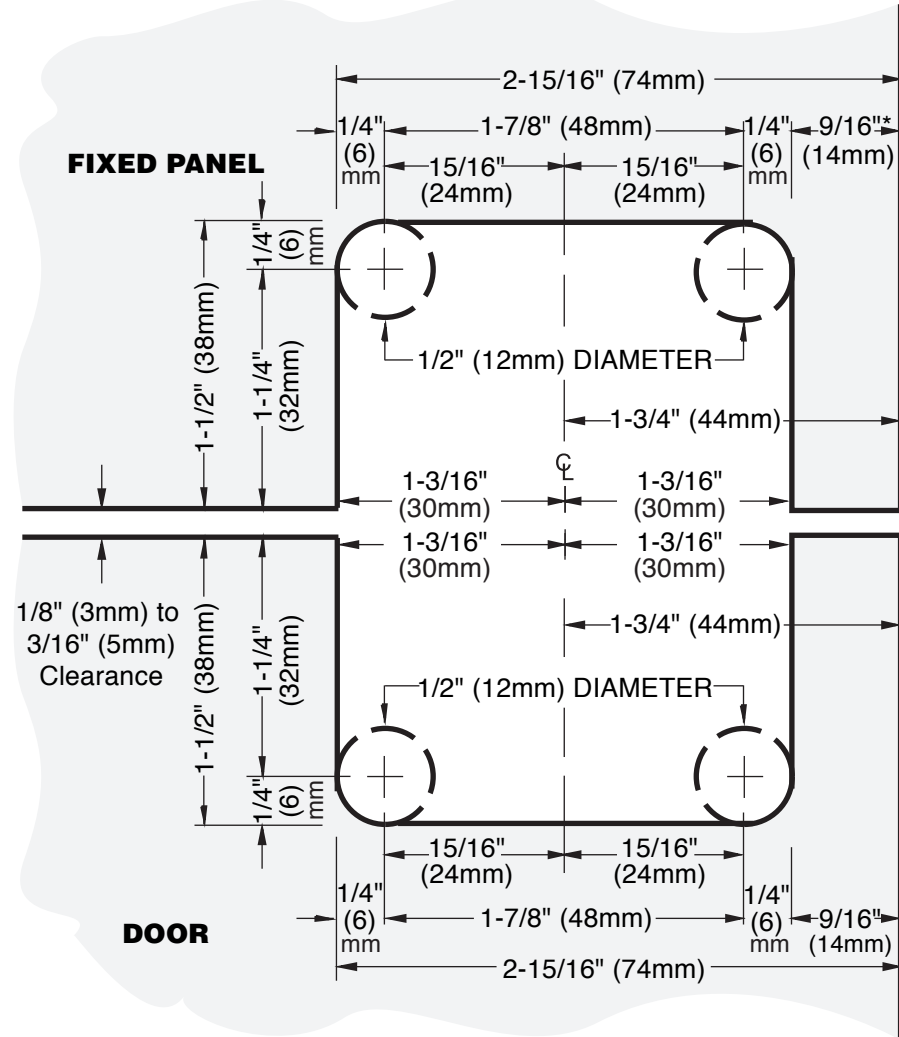
Glass-to-Glass Hinge

CAT. No. CAR02

Edge Mount Preferred Method 1/8" (3mm) to 3/16" (5mm) clearance

IMPORTANT:

Project measurements from the edge of the glass.



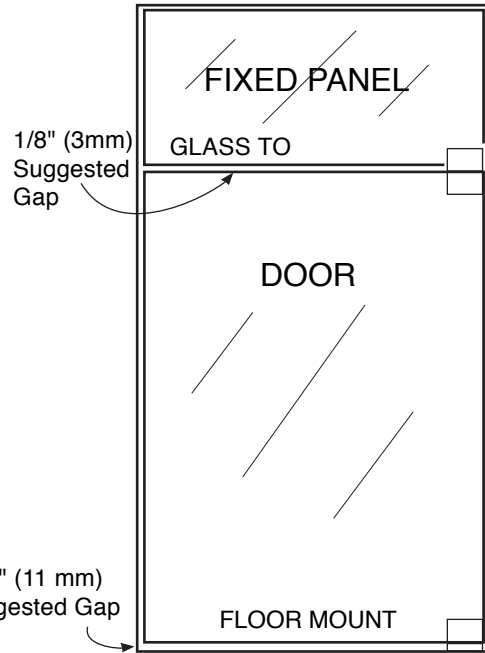
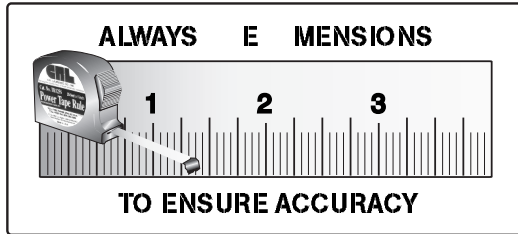
* The 9/16" (14mm) measurement is ok as long as the fixed panel side clearance is the same as the door side clearance. If not, make the appropriate add-on or deduction.



C.R. LAURENCE CO., INC.
PROFESSIONAL QUALITY

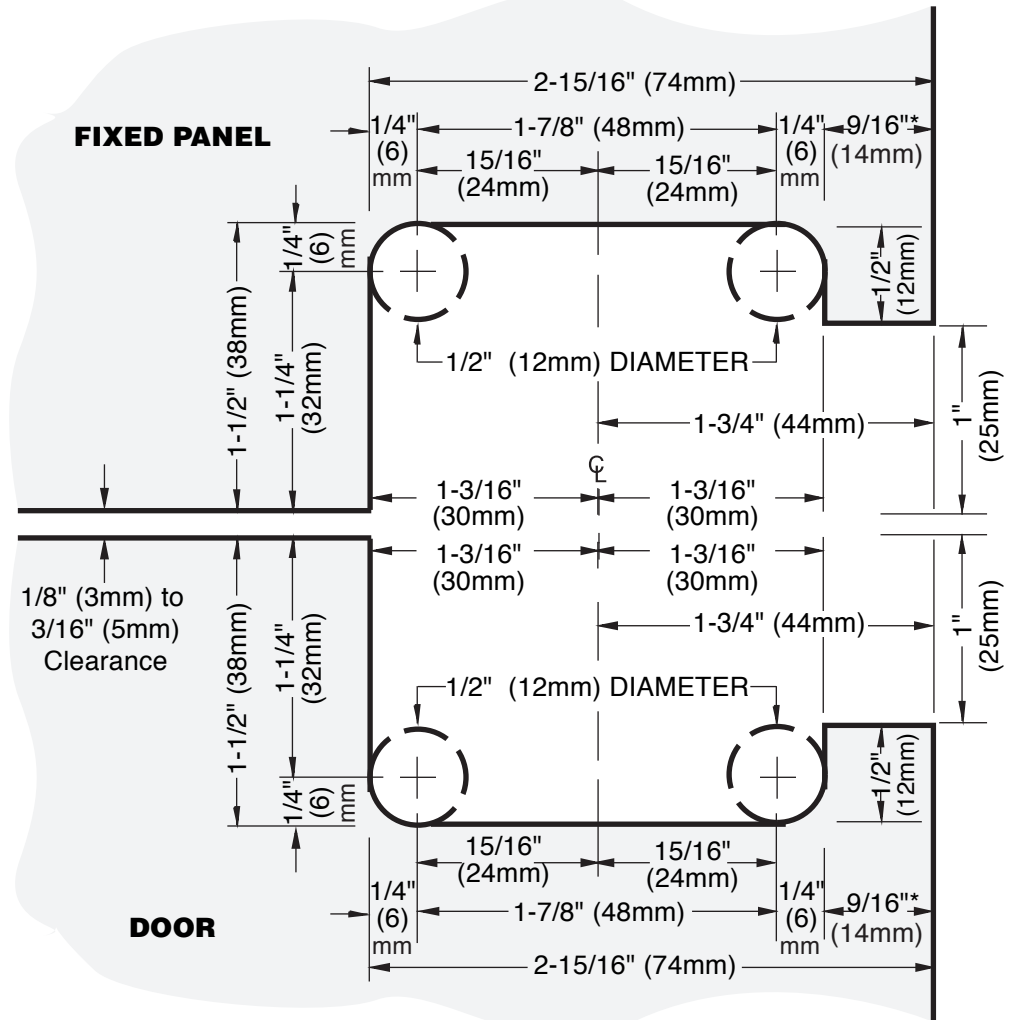
IMPORTANT:

Project measurements from the edge of the glass.



CARDIFF
Glass-to-Glass Hinge
Cat. No. CAR02

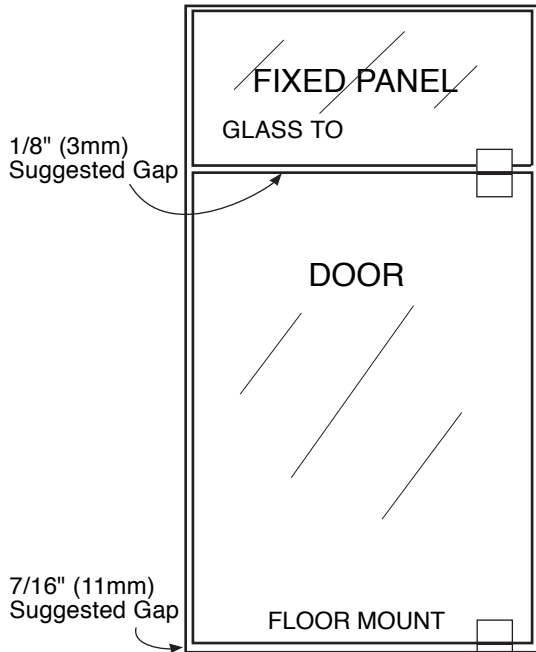
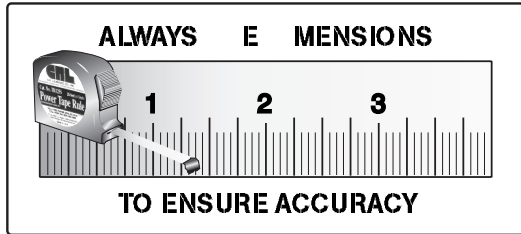
Edge Mount Alternate Method 1/8" (3mm) to 3/16" (5mm) clearance



* The 9/16" (14mm) measurement is ok as long as the fixed panel side clearance is the same as the door side clearance. If not, make the appropriate add-on or deduction.



C.R. LAURENCE CO., INC.
PROFESSIONAL QUALITY



CARDIFF

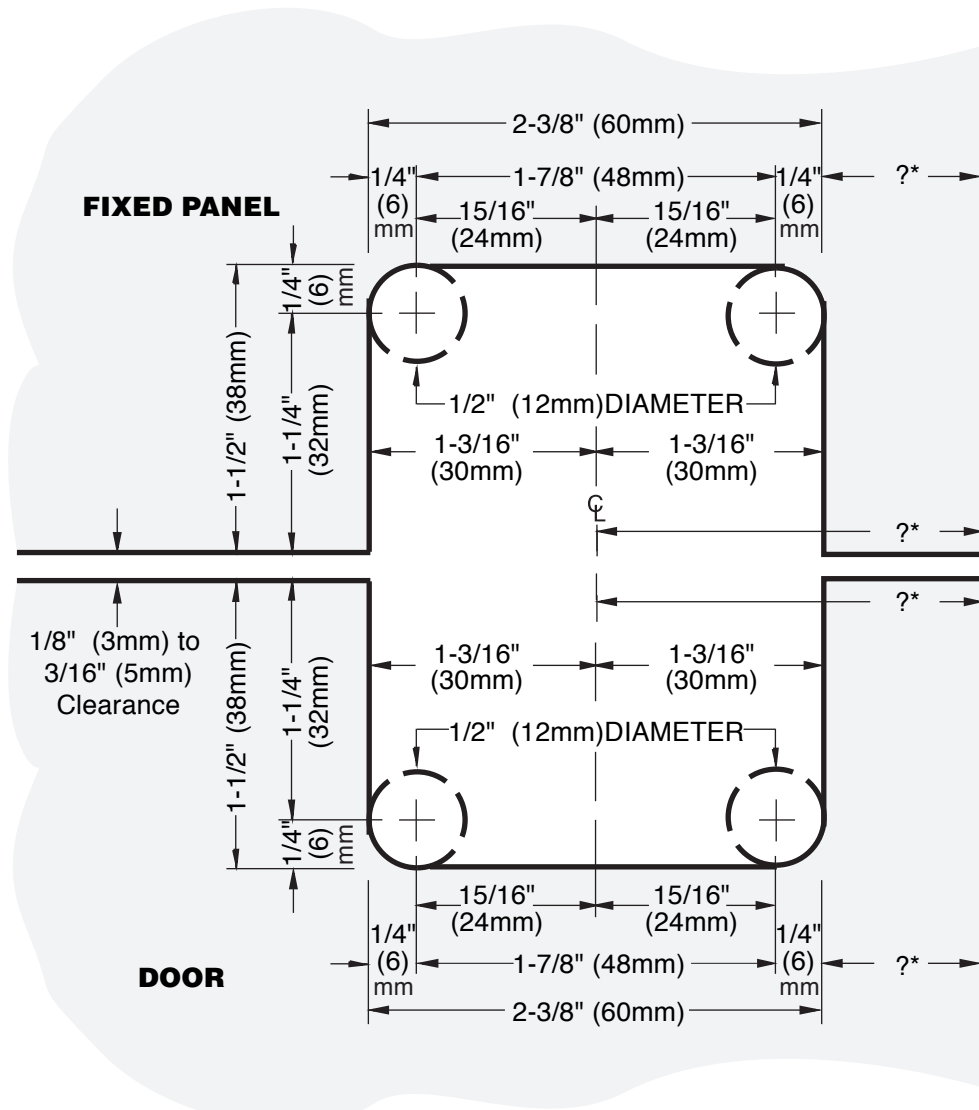
Glass-to-Glass Hinge

Cat. No. CAR02

Inset Mount Method 1/8" (3mm) to 3/16" (5mm) clearance

IMPORTANT:

Project measurements from the edge of the glass.



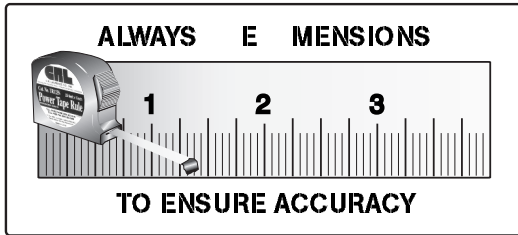
*This measurement varies depending on the amount of inset you desire.



C.R. LAURENCE CO., INC.
PROFESSIONAL QUALITY

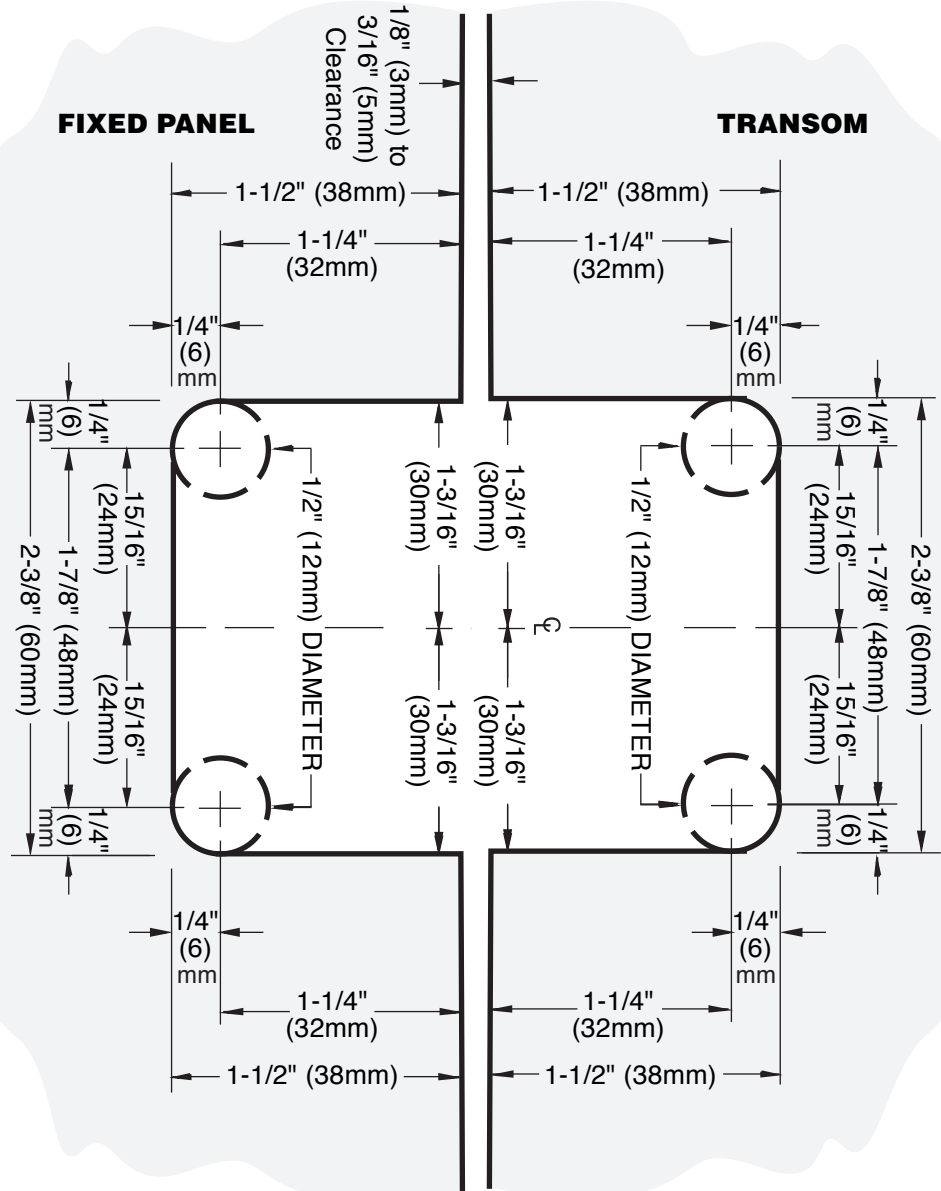
IMPORTANT:

Project measurements from the edge of the glass.



FIXED PANEL

TRANSOM



FIXED PANEL CARDIFF HINGE CARDIFF HINGE TRANSOM GLASS

CARDIFF

Glass-to-Glass Hinge

CAT. No. CAR02

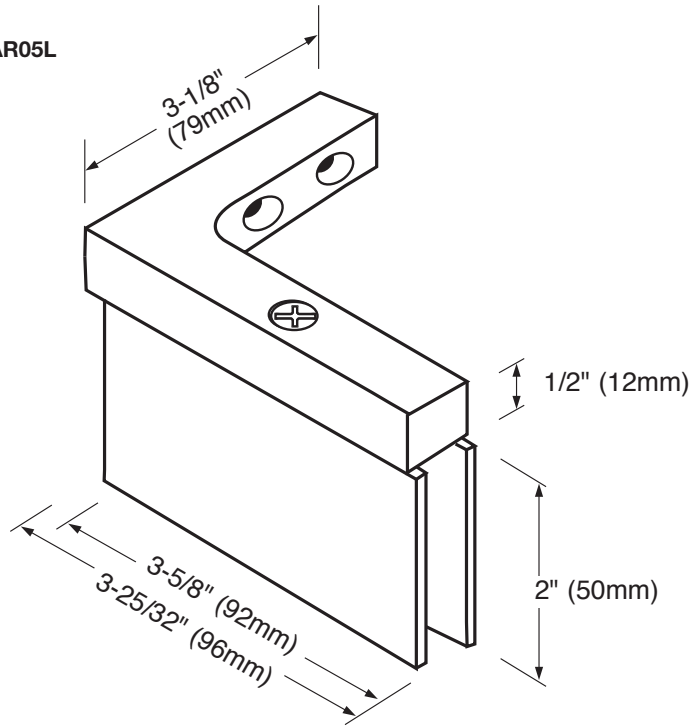
Transom Mount Method 1/8" (3mm) to 3/16" (5mm) clearance



C.R. Laurence Company has established a Technical Sales Department to assist our customers. If you have any questions concerning shower door hardware or any product from CRL, please contact us at:
(800) 421-6144 in the U.S.,
or (877) 421-6144 from Canada,
and ask for Extension 7740



Model CAR05L
Shown



CARDIFF

Wall Mount Hinge

Cat. No. CAR05L & CAR05R

Edge Mount Preferred Method (Even with top of door)Page 4H-32

Edge Mount Alternate Method (Even with top of door)Page 4H-17

*Maximum Door Capacities	5/16" (8mm) Glass		3/8" (10mm) Glass	
	Weight	Width	Weight	Width
Using 2 Hinges	100 lbs.(46 kg)	31"(787mm)	100 lbs.(46 kg)	31"(787mm)

*NOTE: Do not exceed either maximum weight or width when choosing proper quantity of hinges.

Important Information:

Template Options: The Cardiff Wall Mount CAR05L or CAR05R Hinge offers two template options, depending upon the capabilities of the temperer (see lower left of this page). The Preferred Method allows a full vertical seal along the hinge side. The Alternate Method leaves a short leg of glass, thus not allowing a full length vertical seal.

Optional Pivot Pins: Optional 5° Pivot Pins (Cat. No. P1VP1N) are sold as a set, one pin for the top hinge and one pin for the bottom hinge. These 5° Offset Pivot Pins allow the installer to adjust the closing position of the door 5° inwards or outwards.

Specifications:

Glass Sizes: 5/16" (8mm) to 3/8" (10mm) thick tempered safety glass

Construction: Solid brass

Closing Type: Self-centering when within 15° of closed position

Cutout Required

Includes: Gaskets, screws and template

Use of Gaskets:

For 5/16"(8mm) Glass: Use one thick gasket and one thin gasket on each side

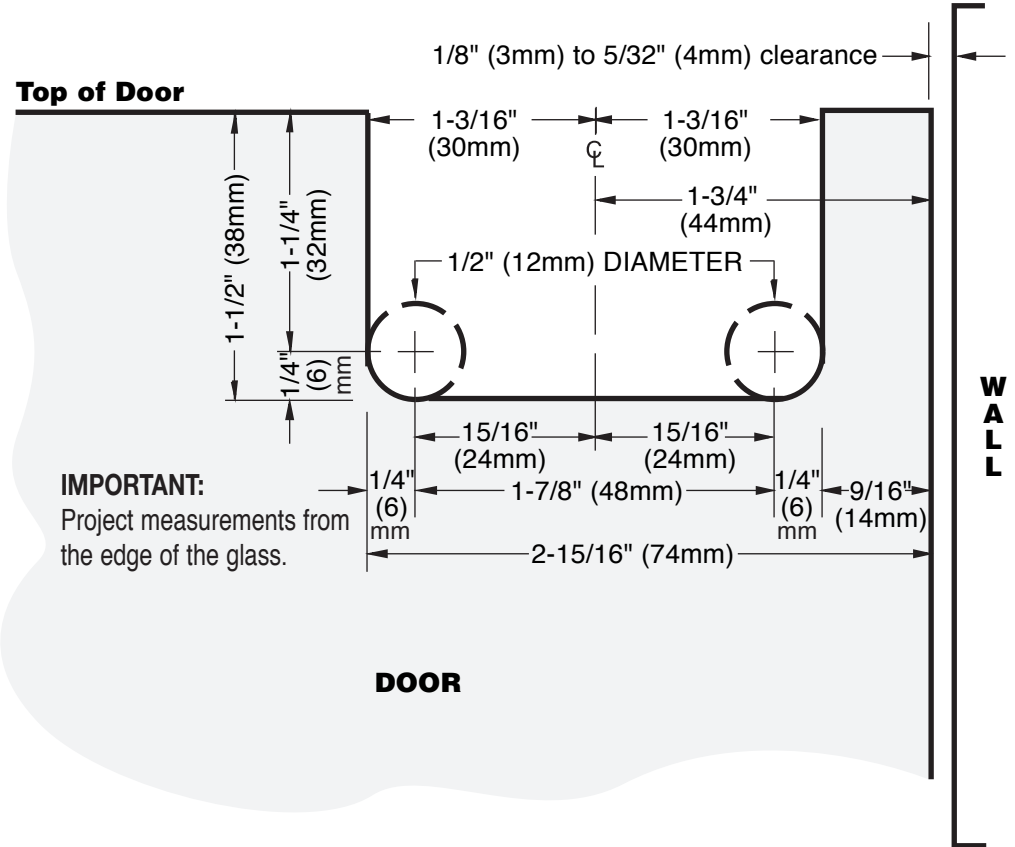
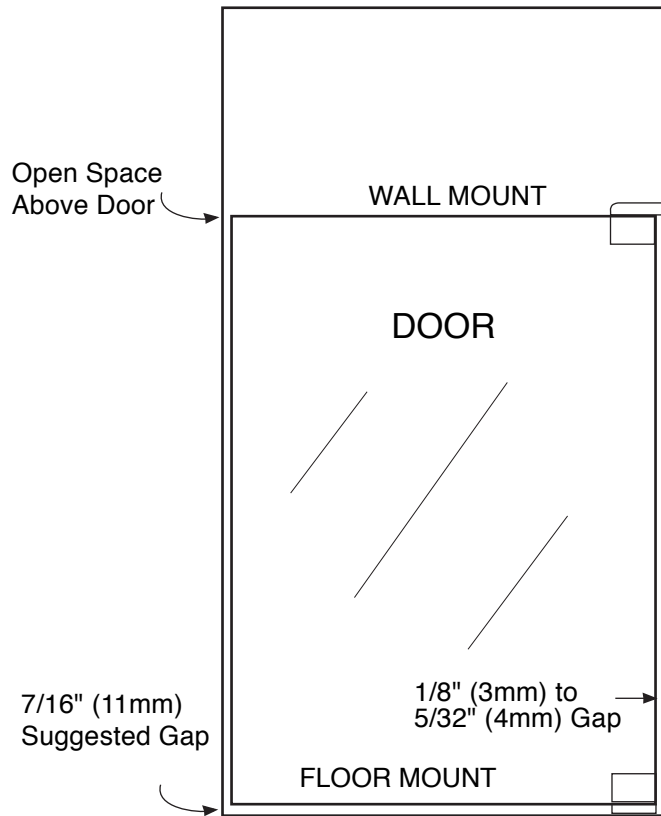
For 3/8"(10mm) Glass: Use one thick gasket on each side

Recommendations:

For public safety, we only recommend the use of tempered safety glass. Do not use power tools when installing these hinges.

Maintenance Guidelines:

- Never use an abrasive cleaner on the hardware. Many of the components are coated with a clear lacquer that will be irreparably damaged if subjected to harsh, abrasive chemicals. Advise your customer that drying the hardware with a clean, soft towel on a daily basis is the best way to maintain the hardware. If mineral deposits build-up, mix a couple of drops of a mild liquid soap (such as Ivory or a similar product) into a cup of warm water. Using a soft, non-abrasive cloth, clean the hardware. Rinse thoroughly with clean, warm water and dry.

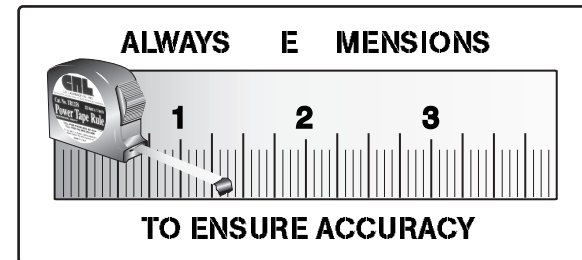


CARDIFF

Wall Mount Hinge

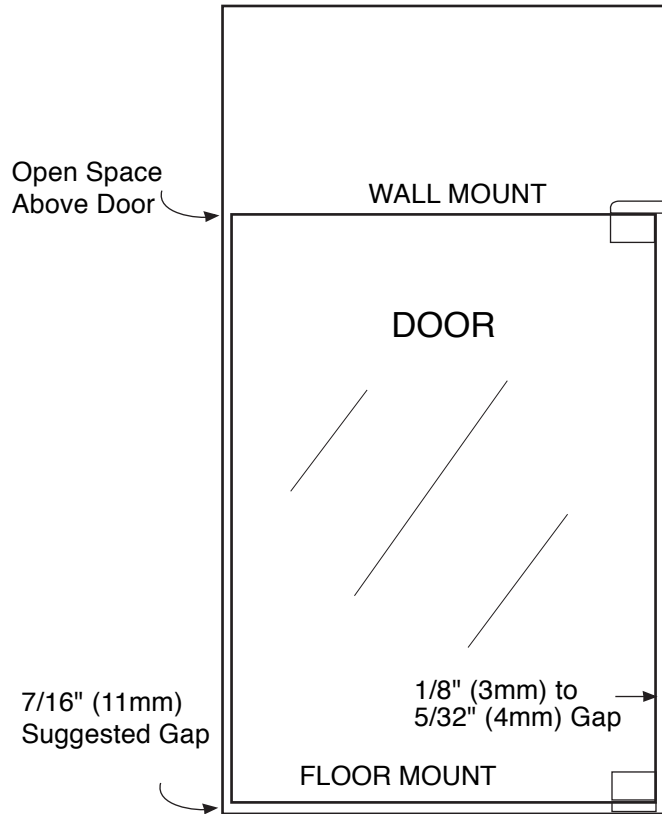
CAT. No. CAR05L & CAR05R

Wall Mount Preferred Method (Even with top of door)

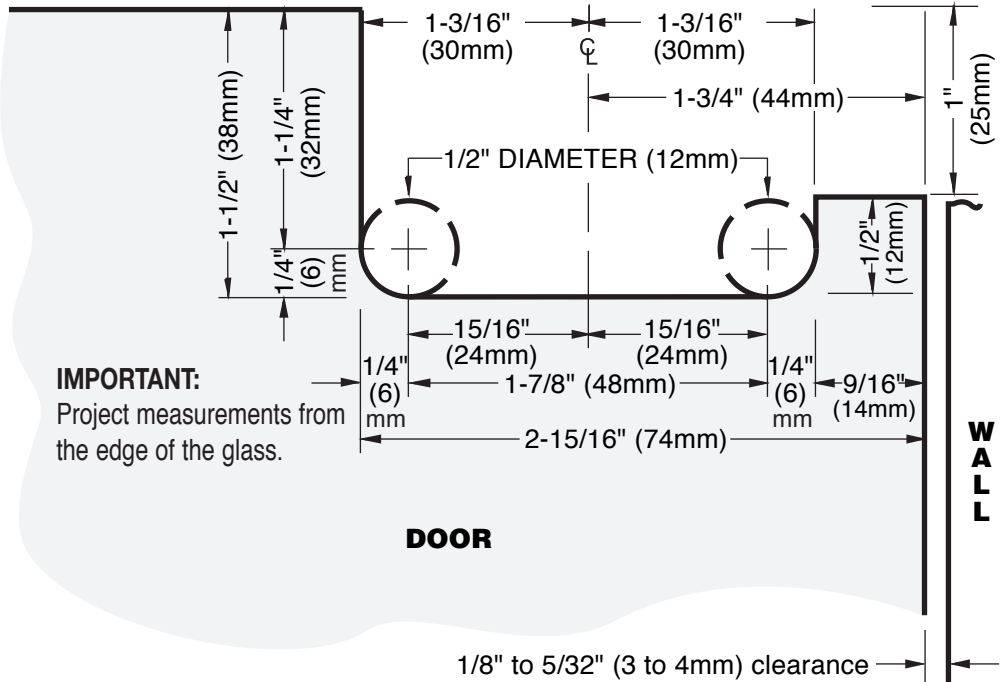




C.R. LAURENCE CO., INC.
PROFESSIONAL QUALITY

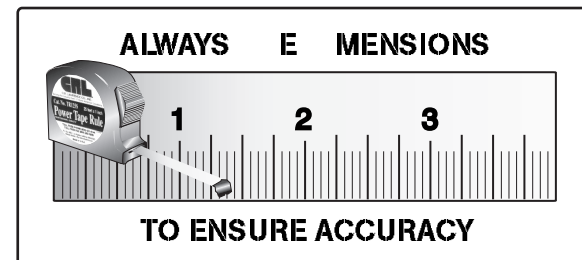


Top of Door



CARDIFF
Wall Mount Hinge
CAT. No. CAR05L & CAR05R

Wall Mount Alternate Method (Even with top of door)

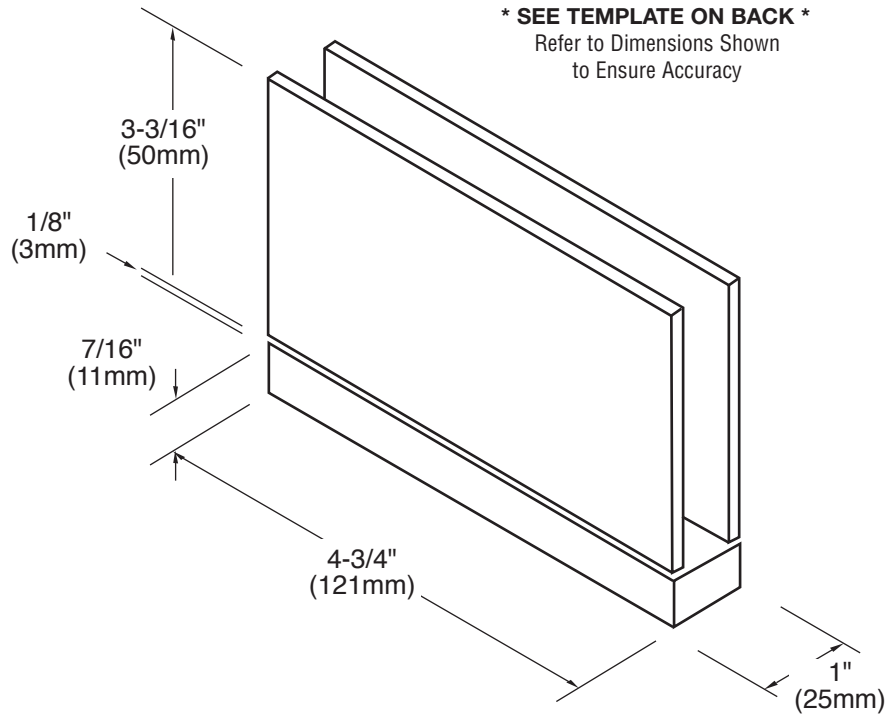




C.R. Laurence Company has established a Technical Sales Department to assist our customers. If you have any questions concerning shower door hardware or any product from CRL, please contact us at:
(800) 421-6144 in the U.S.,
or (877) 421-6144 from Canada,
and ask for Extension 7740



C.R. LAURENCE CO., INC.
PROFESSIONAL QUALITY



SENIOR CARDIFF

Top or Bottom Mount Hinge

Cat. No. SRCAR01

Edge Mount Method (9/16" (14mm) Clearance)Page 4H-36
 Inset Mount Method (9/16" (14mm) Clearance)Page 4H-37

*Maximum Door Capacities	1/2" (12mm) Glass Weight	Width
Using 2 Hinges	145 lbs.(66 kg)	36"(914mm)

*NOTE: Do not exceed either maximum weight or width when choosing proper quantity of hinges.

Important Information:

Template Options: The Top or Bottom Mount SRCAR01 Hinge offers two choices of templates. Refer to the lower left hand corner of this page for the selections. The Edge Mount Template has a full leg cutout that allows a full length vertical seal on the hinge side. The Inset Mount Template enables the door to avoid hitting a towel bar, or some other protrusion from the wall.

Optional Pivot Pins: Optional 5° Pivot Pins (Cat. No. SRP1VP1N) are sold as a set, one pin for the top hinge and one pin for the bottom hinge. These 5° offset Pivot Pins allow the installer to adjust the closing position of the door 5° inwards or outwards.

Specifications:

Glass Sizes: 1/2"(12mm) thick tempered safety glass
Construction: Solid brass
Closing Type: Self-centering when within 15° of closed position
Cutout Required
Includes: Gaskets, screws and template

Use of Gaskets:

For 1/2" Glass: Use one thin gasket on one side and one thick gasket on the other side
For 12mm Glass: Use one thick gasket on both sides

Recommendations:

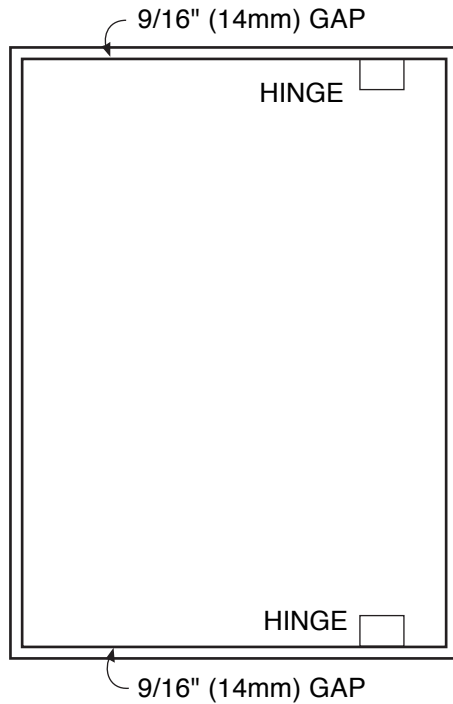
For public safety, we recommend the use of only tempered safety glass.
 Do not use power tools when installing these hinges.

Maintenance Guidelines:

- Never use an abrasive cleaner on the hardware. Many of the components are coated with a clear lacquer that will be irreparably damaged if subjected to harsh, abrasive chemicals. Advise your customer that drying the hardware with a clean, soft towel on a daily basis is the best way to maintain the hardware. If mineral deposits build-up, mix a couple of drops of a mild liquid soap (such as Ivory or a similar product) into a cup of warm water. Using a soft, non-abrasive cloth, clean the hardware. Rinse thoroughly with clean, warm water and dry.

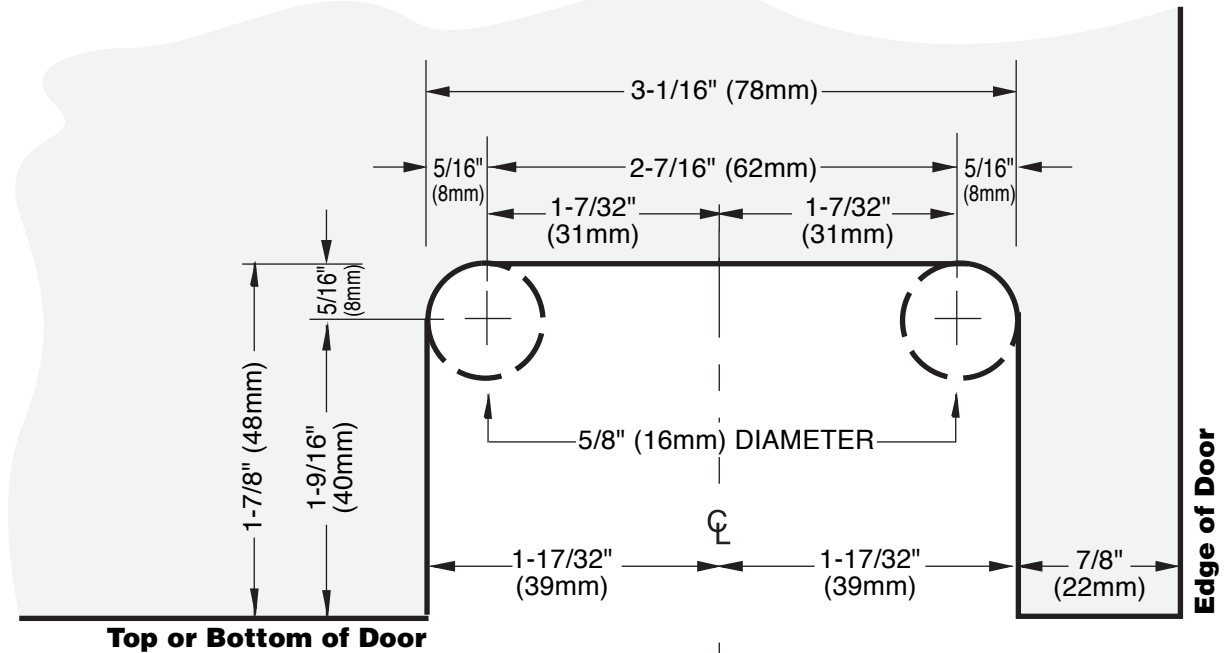


C.R. LAURENCE CO., INC.
PROFESSIONAL QUALITY



IMPORTANT:

Project measurements from the edge of the glass.

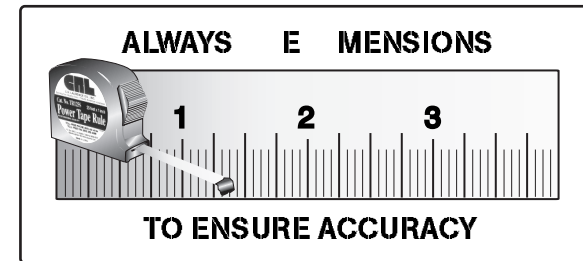


SENIOR CARDIFF

Top or Bottom Mount Hinge

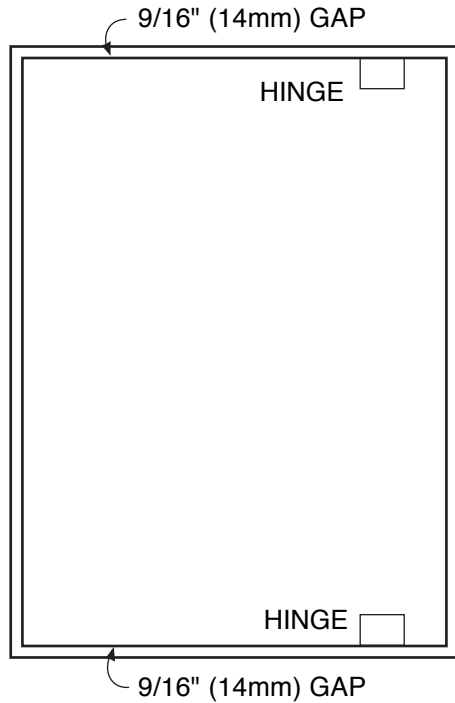
Cat. No. SRCAR01

Edge Mount Method (9/16" (14mm) Clearance)



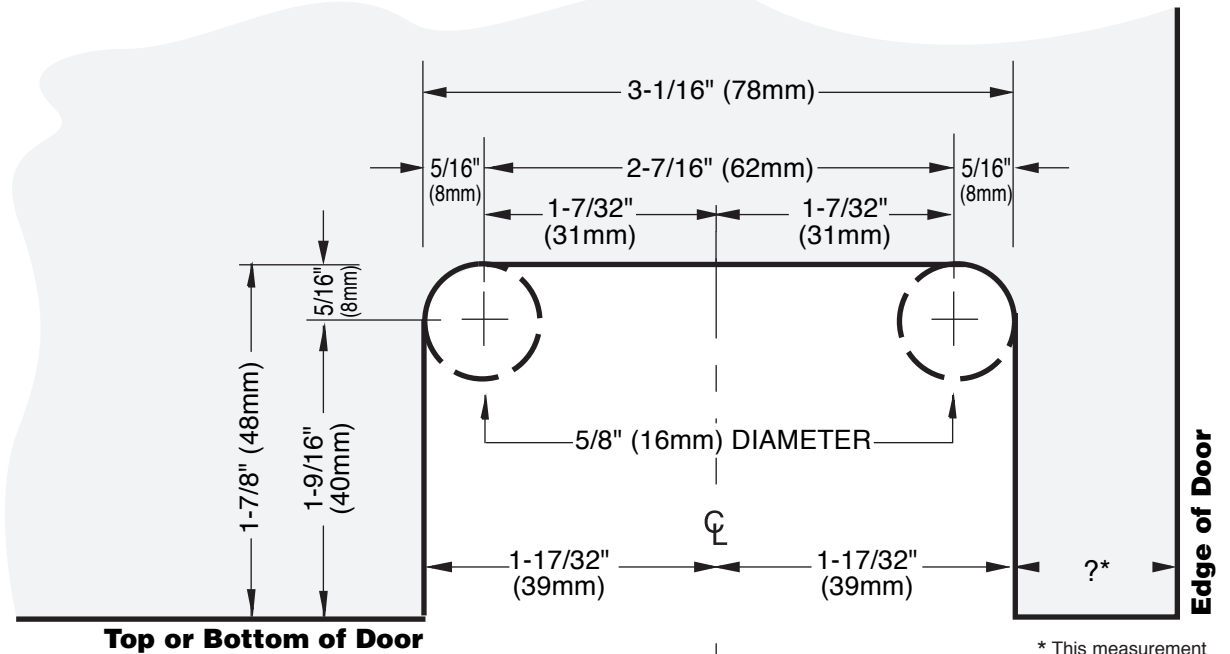
C.R. Laurence Co., Inc.
crlaurence.com

For technical assistance in the United States call toll free (800) 421-6144; from Canada call toll free (877) 421-6144; Outside the U.S. and Canada call (323) 588-1281. Ask for Tech Sales at Extension 7740. Toll free fax (800) 458-7496.



IMPORTANT:

Project measurements from the edge of the glass.



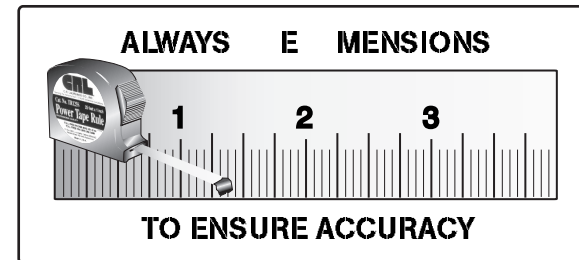
* This measurement varies depending on the amount of inset you desire.

SENIOR CARDIFF

Top or Bottom Mount Hinge

Cat. No. SRCAR01

Inset Mount Method (9/16" (14mm) Clearance)

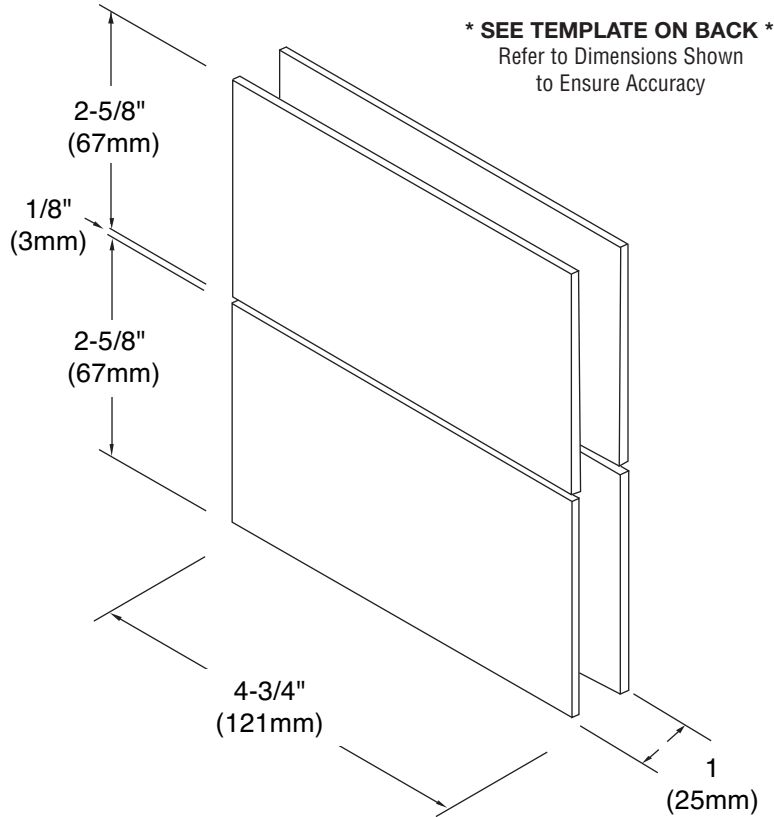




C.R. Laurence Company has established a Technical Sales Department to assist our customers. If you have any questions concerning shower door hardware or any product from CRL, please contact us at:
(800) 421-6144 in the U.S.,
or (877) 421-6144 from Canada,
and ask for Extension 7740



C.R. LAURENCE CO., INC.
PROFESSIONAL QUALITY



SENIOR CARDIFF

Glass-to-Glass Hinge

CAT. No. SRCAR02

Edge Mount Method (1/8" (3mm) to 3/16" (5mm) Clearance) . . . Page 4H-40

Inset Mount Method (1/8" (3mm) to 3/16" (5mm) Clearance) . . . Page 4H-41

*Maximum Door Capacities	1/2" (12mm) Glass Weight	Width
Using 2 Hinges	145 lbs.(66 kg)	36"(914mm)

*NOTE: Do not exceed either maximum weight or width when choosing proper quantity of hinges.

Important Information:

Template Options: The Glass-to-Glass Mount SRCAR02 Hinge offers two choices of templates. Refer to the lower left hand corner of this page for the various selections. The Edge Mount Template has a full leg cutout that allows a full length vertical seal on the hinge side.

The Inset Mount Template enables the door to avoid hitting a towel bar, or some other protrusion from the wall.

Optional Pivot Pins: Optional 5° Pivot Pins (Cat. No. SRP1VP1N) are sold as a set, one pin for the top hinge and one pin for the bottom hinge. These 5° offset Pivot Pins allow the installer to adjust the closing position of the door 5° inwards or outwards.

Specifications:

Glass Sizes: 1/2"(12mm) thick tempered safety glass

Construction: Solid brass

Closing Type: Self-centering when within 15° of closed position

Cutout Required Includes: Gaskets, screws and template

Use of Gaskets:

For 1/2" Glass: Use one thin gasket on one side and one thick gasket on the other side

For 12mm Glass: Use one thick gasket on both sides

Recommendations:

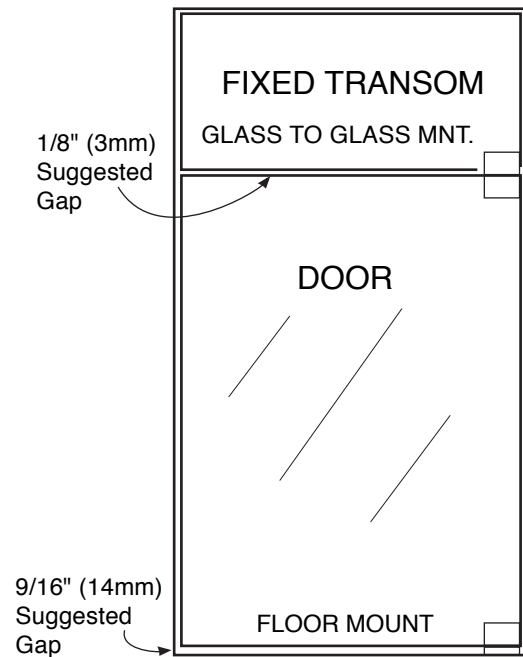
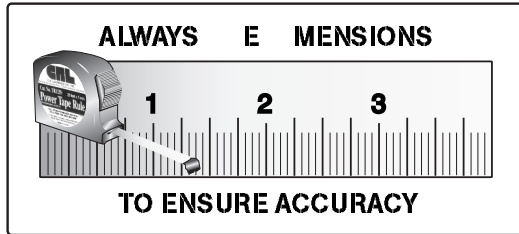
For public safety, we recommend the use of only tempered safety glass. Do not use power tools when installing these hinges.

Maintenance Guidelines:

- Never use an abrasive cleaner on the hardware. Many of the components are coated with a clear lacquer that will be irreparably damaged if subjected to harsh, abrasive chemicals. Advise your customer that drying the hardware with a clean, soft towel on a daily basis is the best way to maintain the hardware. If mineral deposits build-up, mix a couple of drops of a mild liquid soap (such as Ivory or a similar product) into a cup of warm water. Using a soft, non-abrasive cloth, clean the hardware. Rinse thoroughly with clean, warm water and dry.



C.R. LAURENCE CO., INC.
PROFESSIONAL QUALITY

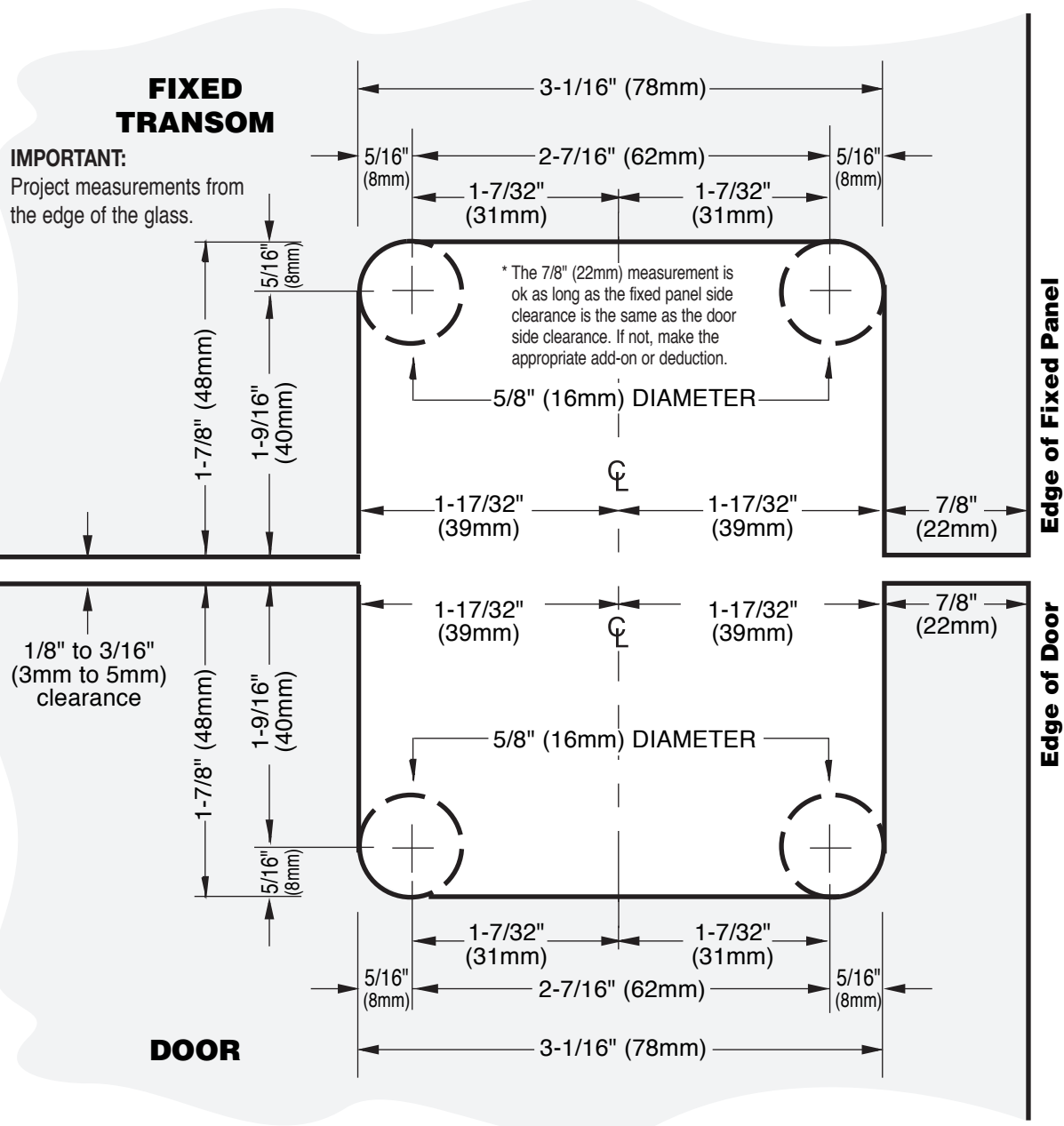


SENIOR CARDIFF

Glass-to-Glass Hinge

Cat. No. SRCAR02

Edge Mount Preferred Method (1/8" (3mm) to 3/16" (5mm) Clearance)

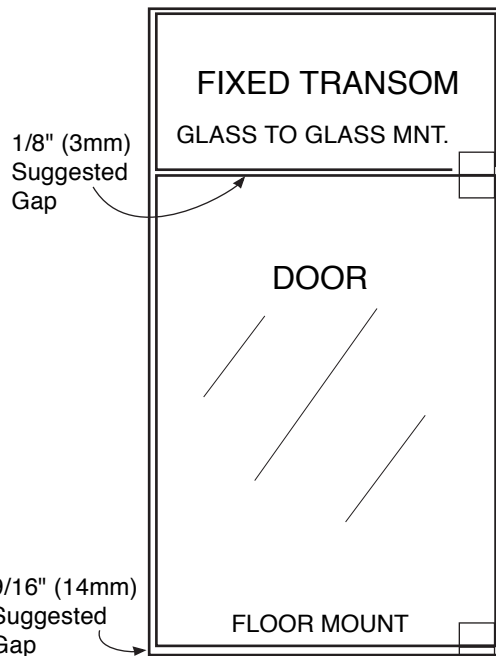
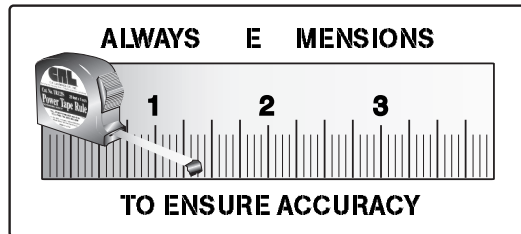


C.R. Laurence Co., Inc.
crlaurence.com

For technical assistance in the United States call toll free (800) 421-6144; from Canada call toll free (877) 421-6144; Outside the U.S. and Canada call (323) 588-1281. Ask for Tech Sales at Extension 7740. Toll free fax (800) 458-7496.



C.R. LAURENCE CO., INC.
PROFESSIONAL QUALITY

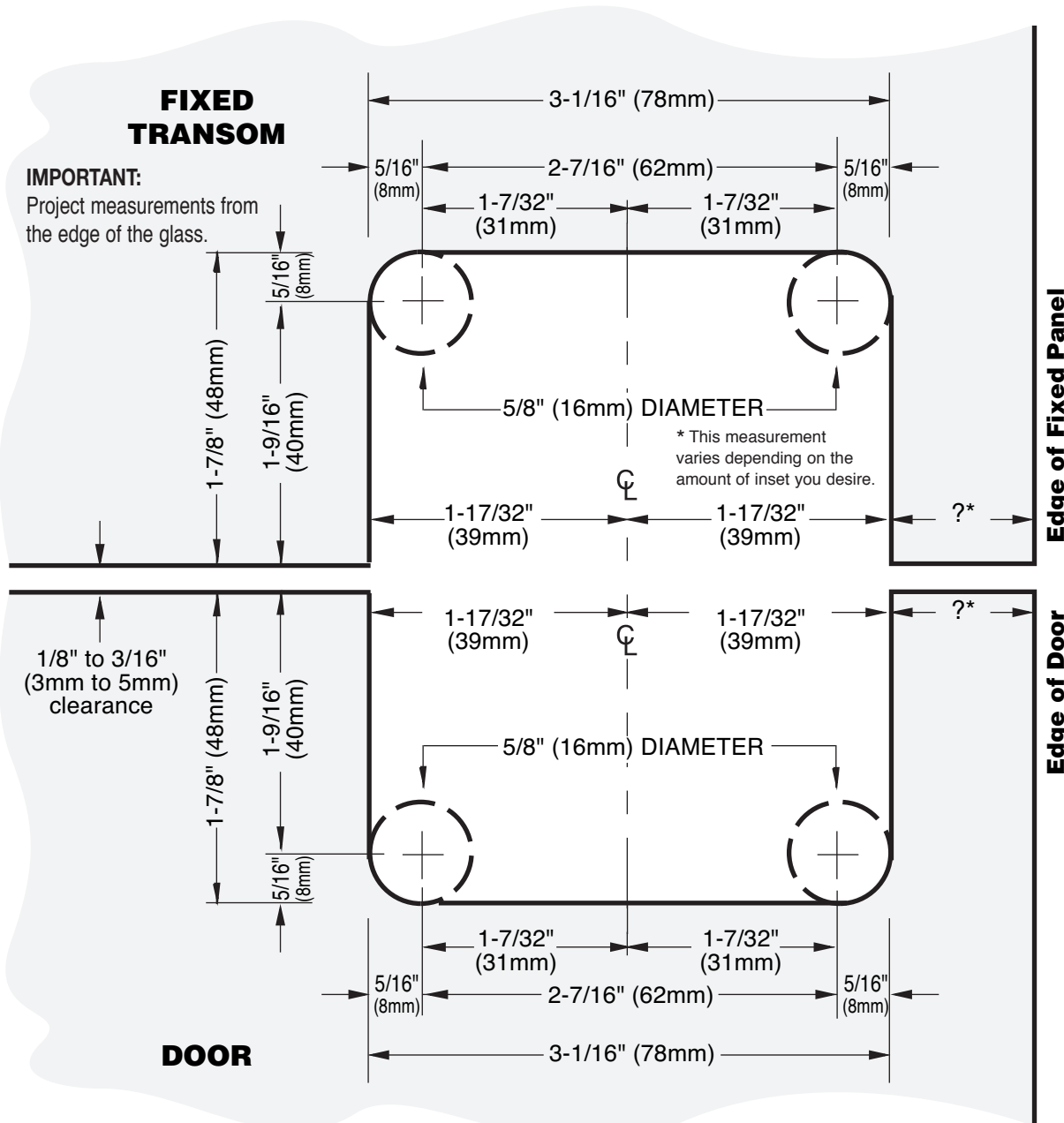


SENIOR CARDIFF

Glass-to-Glass Hinge

Cat. No. SRCAR02

Inset Mount Preferred Method (1/8" (3mm) to 3/16" (5mm) Clearance)

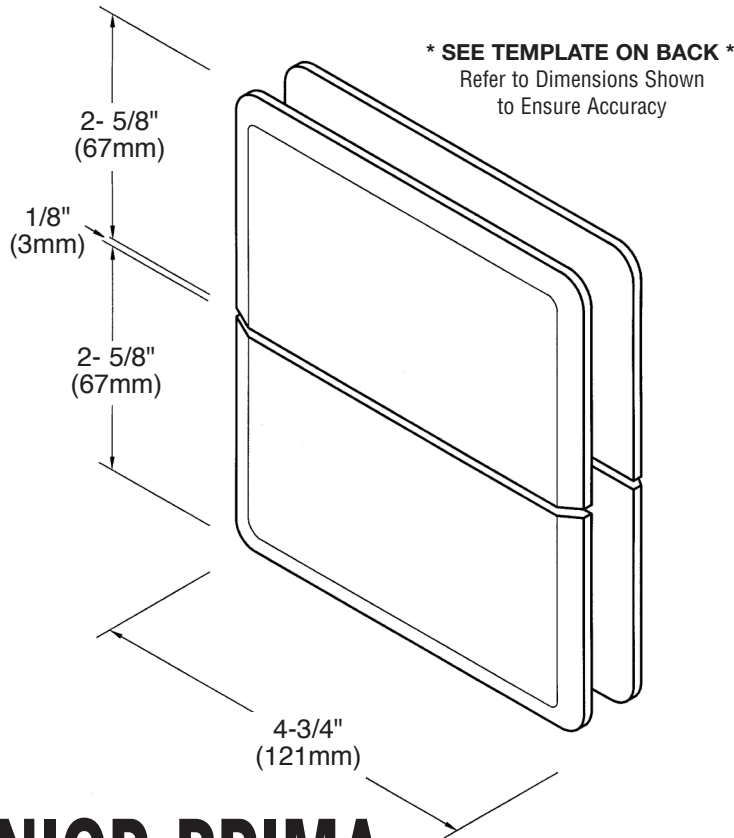




C.R. Laurence Company has established a Technical Sales Department to assist our customers. If you have any questions concerning shower door hardware or any product from CRL, please contact us at:
(800) 421-6144 in the U.S.,
or (877) 421-6144 from Canada,
and ask for Extension 7740



C.R. LAURENCE CO., INC.
PROFESSIONAL QUALITY



SENIOR PRIMA

Glass-to-Glass Hinge

Cat. No. SRPPH02

Edge Mount Method (1/8" (3mm) to 3/16" (5mm) Clearance)Page 4H-6

Inset Mount Method (1/8" (3mm) to 3/16" (5mm) Clearance)Page 4H-7

*Maximum Door Capacities	1/2" (12mm) Glass	
	Weight	Width
Using 2 Hinges	145 lbs.(66 kg)	36"(914mm)

*NOTE: Do not exceed either maximum weight or width when choosing proper quantity of hinges.

Important Information:

Template Options: The Glass-to-Glass Mount SRPPH02 Hinge offers two choices of templates. Refer to the lower left hand corner of this page for the various selections. The Edge Mount Template has a full leg cutout that allows a full length vertical seal on the hinge side.

The Inset Mount Template enables the door to avoid hitting a towel bar, or some other protrusion from the wall.

Optional Pivot Pins: Optional 5° Pivot Pins (Cat. No. SRP1VP1N) are sold as a set, one pin for the top hinge and one pin for the bottom hinge. These 5° offset Pivot Pins allow the installer to adjust the closing position of the door 5° inwards or outwards.

Specifications:

Glass Sizes: 1/2"(12mm) thick tempered safety glass

Construction: Solid brass

Closing Type: Self-centering when within 15° of closed position

Cutout Required Includes: Gaskets, screws and template

Use of Gaskets:

For 1/2" Glass: Use one thin gasket on one side and one thick gasket on the other side

For 12mm Glass: Use one thick gasket on both sides

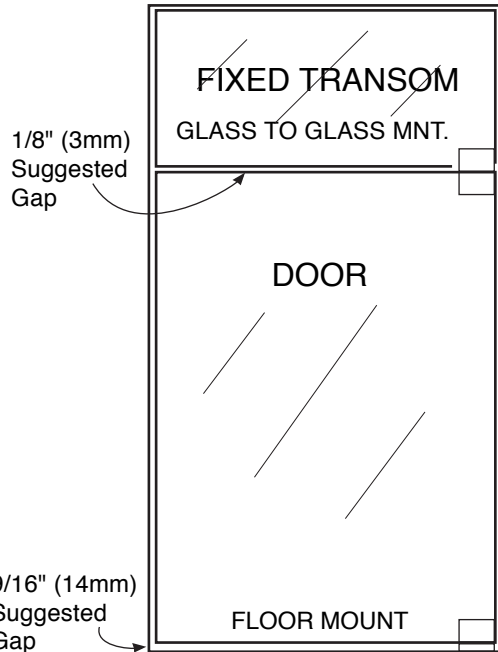
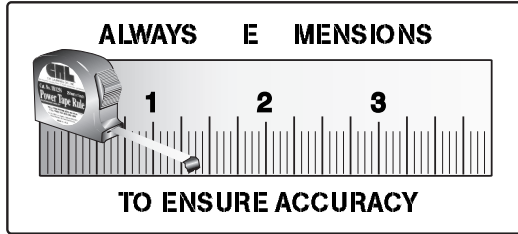
Recommendations:

For public safety, we recommend the use of only tempered safety glass.

Do not use power tools when installing these hinges.

Maintenance Guidelines:

- Never use an abrasive cleaner on the hardware. Many of the components are coated with a clear lacquer that will be irreparably damaged if subjected to harsh, abrasive chemicals. Advise your customer that drying the hardware with a clean, soft towel on a daily basis is the best way to maintain the hardware. If mineral deposits build-up, mix a couple of drops of a mild liquid soap (such as Ivory or a similar product) into a cup of warm water. Using a soft, non-abrasive cloth, clean the hardware. Rinse thoroughly with clean, warm water and dry.



SENIOR PRIMA

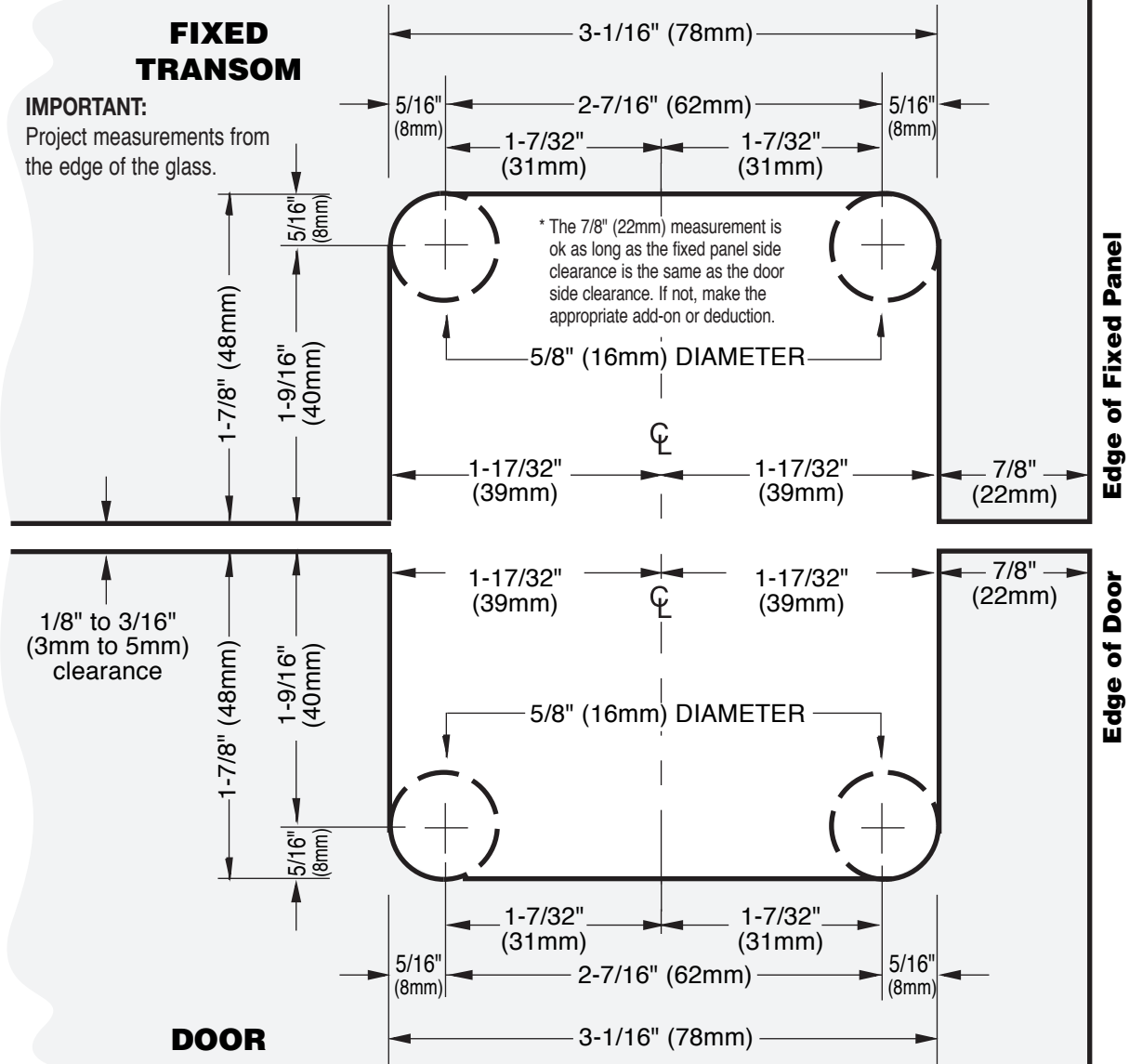
Glass-to-Glass Hinge

Cat. No. SRPPH02

Edge Mount Preferred Method (1/8" (3mm) to 3/16" (5mm) Clearance)

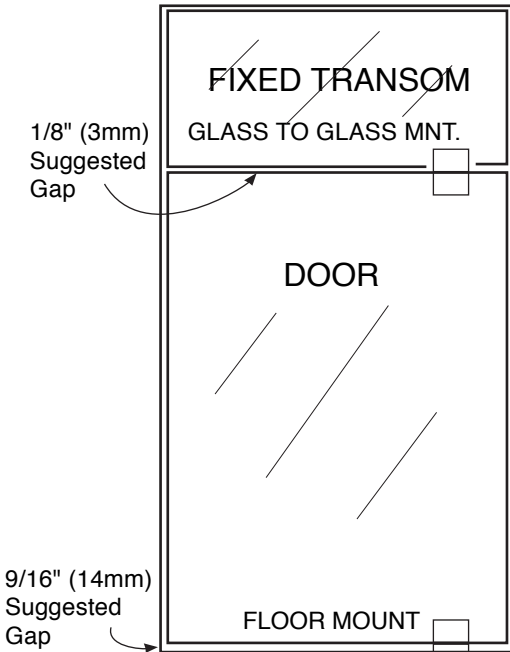
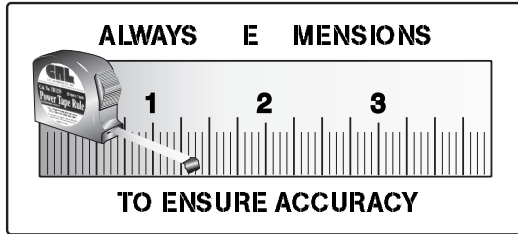
FIXED TRANSCOM

IMPORTANT:
Project measurements from the edge of the glass.





C.R. LAURENCE CO., INC.
PROFESSIONAL QUALITY

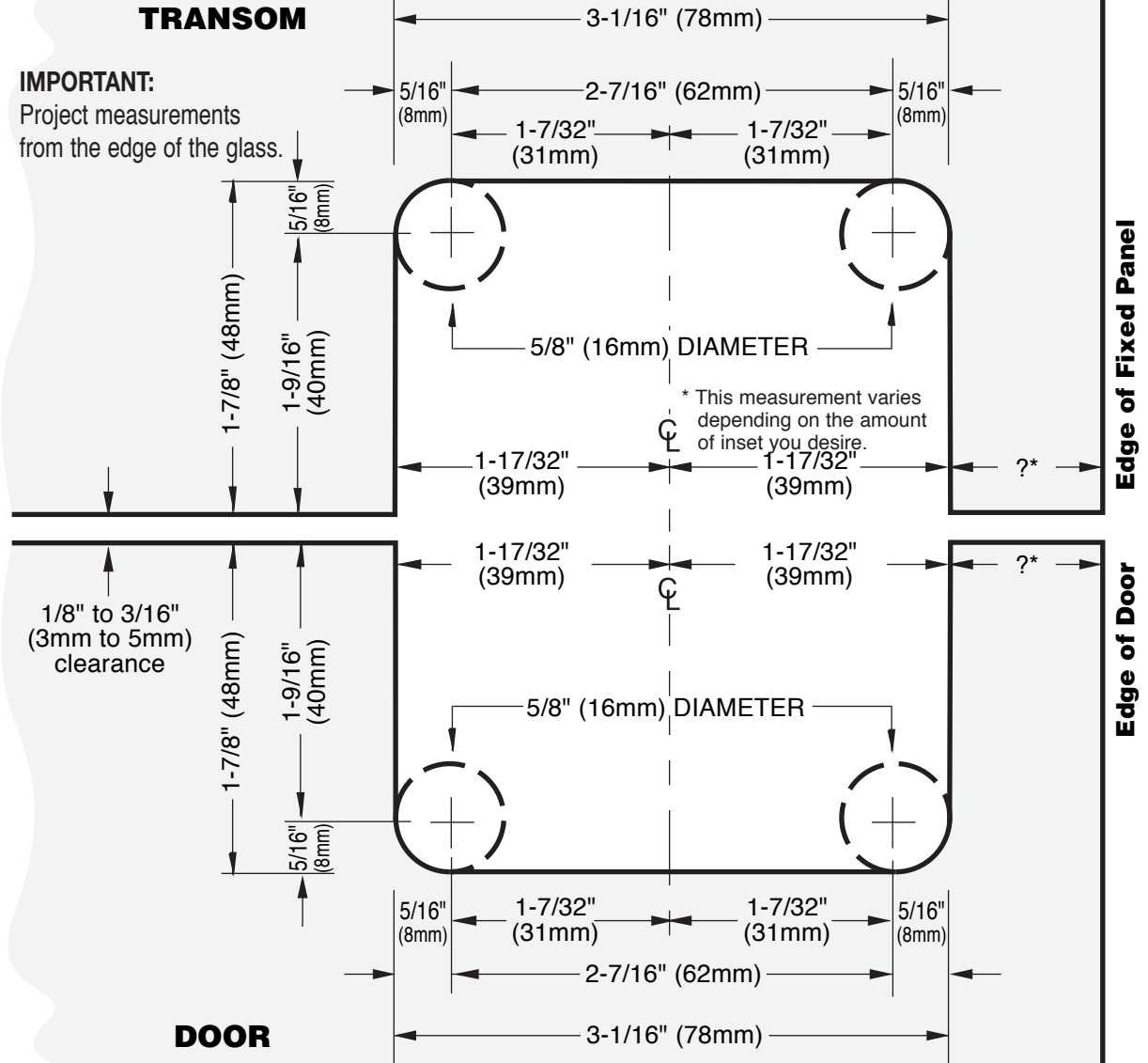


SENIOR PRIMA

Glass-to-Glass Hinge

Cat. No. SRPPH02

Inset Mount Method (1/8" (3mm) to 3/16" (5mm) Clearance)

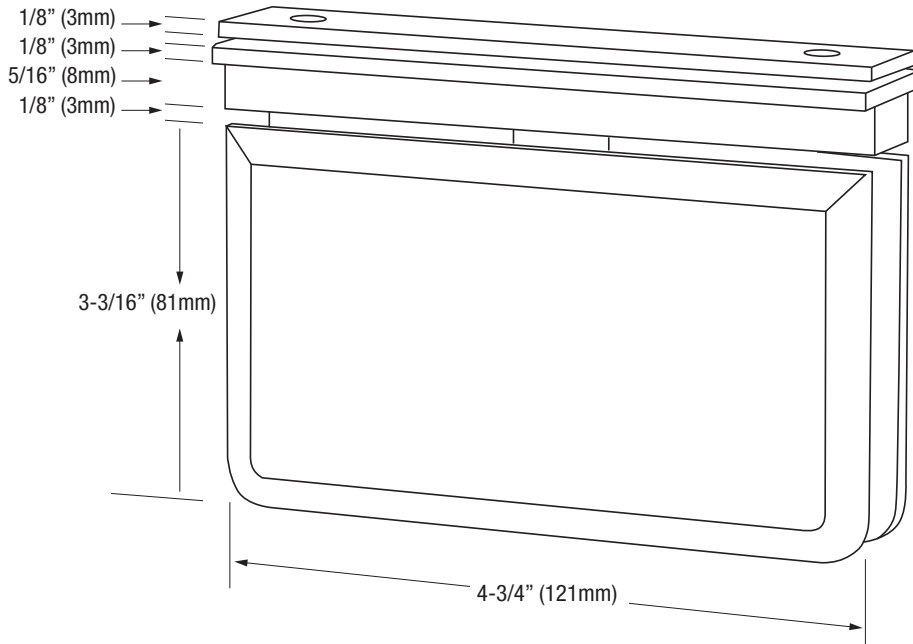




C.R. Laurence Company has established a Technical Sales Department to assist our customers. If you have any questions concerning shower door hardware or any product from CRL, please contact us at:
(800) 421-6144 in the U.S.,
or (877) 421-6144 from Canada,
and ask for Extension 7740



C.R. LAURENCE CO., INC.
PROFESSIONAL QUALITY



SENIOR PRIMA

EZ-Adjust Header Mount Hinge

CAT. No. SRPPH06

Edge Mount Preferred MethodPage 4H-8B
 Inset Mount MethodPage 4H-8C

*Maximum Door Capacities	1/2" (12mm) Glass Weight	Width
Using 2 Hinges	145 lbs.(66 kg)	36"(914mm)

***NOTE:** Do not exceed either maximum weight or width when choosing proper quantity of hinges.

Important Information:

Template Options: The Senior Prima EZ-Adjust Header Mount SRPPH06 Hinge offers two template options, depending upon the capabilities of the temperer (see lower left of this page). The Preferred Method allows a full vertical seal along the hinge side. The Inset Mount Template is beneficial for two reasons. It allows a full length vertical seal. Also, by inseting the hinge a certain distance towards the center of the door, it enables the door to avoid hitting a towel bar, or some other protrusion from the wall.

Specifications:

Glass Sizes: 1/2" (12mm) thick tempered safety glass

Construction: Solid brass

Closing Type: Self-centering when within 15° of closed position

Cutout Required

Includes: Gaskets, screws and template

Use of Gaskets:

For 1/2" Glass: Use one thick gasket and one thin gasket on each side

For 12mm Glass: Use one thick gasket on each side

Recommendations:

For public safety, we only recommend the use of tempered safety glass.
 Do not use power tools when installing these hinges.

Maintenance Guidelines:

- Never use an abrasive cleaner on the hardware. Many of the components are coated with a clear lacquer that will be irreparably damaged if subjected to harsh, abrasive chemicals. Advise your customer that drying the hardware with a clean, soft towel on a daily basis is the best way to maintain the hardware. If mineral deposits build-up, mix a couple of drops of a mild liquid soap (such as Ivory or a similar product) into a cup of warm water. Using a soft, non-abrasive cloth, clean the hardware. Rinse thoroughly with clean, warm water and dry.



Note: For Vertical deductions using CRL Headers, see page 2-22.

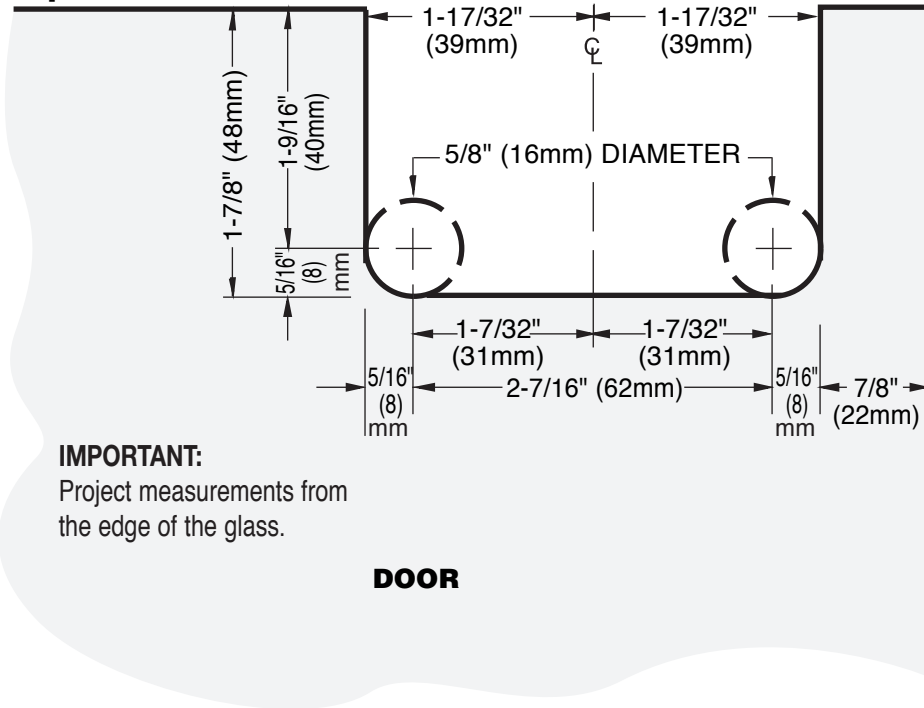
EZ-Adjust Header

DOOR

FLOOR MOUNT

9/16" (14mm)
Suggested Gap

Top of Door

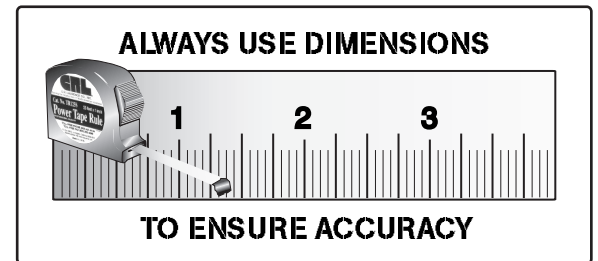


SENIOR PRIMA

EZ-Adjust Header Mount Hinge

Cat. No. SRPPH06

EZ-Adjust Header Edge Mount Preferred Method





Note: For Vertical deductions using CRL Headers, see page 2-22.

EZ-Adjust Header

DOOR

FLOOR MOUNT

9/16" (14mm)
Suggested Gap

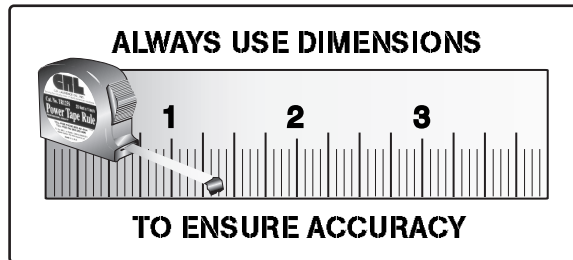
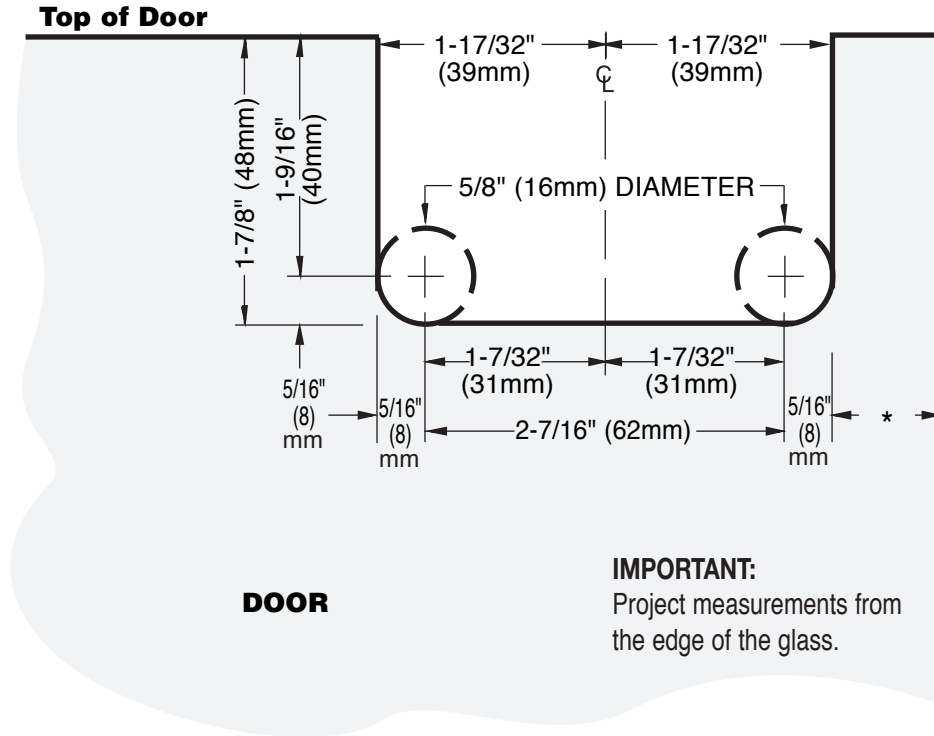
SENIOR PRIMA

EZ-Adjust Header Mount Hinge

CAT. No. SRPPH06

EZ-Adjust Header Inset Mount Method

*This measurement varies depending on the amount of inset you desire.





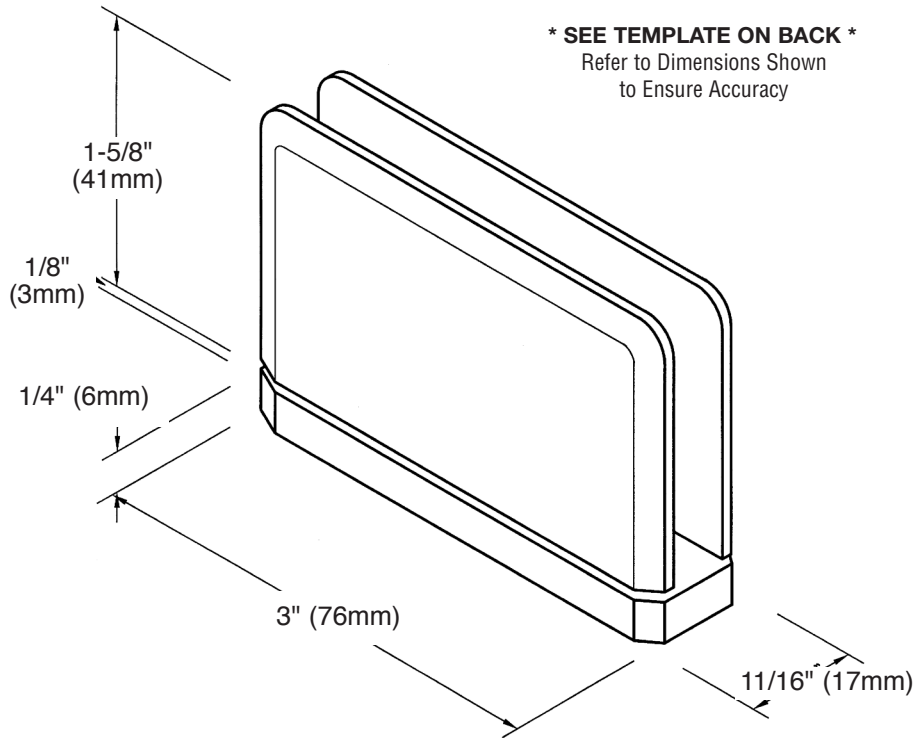
C.R. LAURENCE CO., INC.
PROFESSIONAL QUALITY

C.R. Laurence Company has established a Technical Sales Department to assist our customers. If you have any questions concerning shower door hardware or any product from CRL, please contact us at:
(800) 421-6144 in the U.S.,
or (877) 421-6144 from Canada,
and ask for Extension 7740

4H-8D



C.R. LAURENCE CO., INC.
PROFESSIONAL QUALITY



JUNIOR PRIMA

Top or Bottom Mount Hinge

CAT. No. JRPPH01

Edge Mount Option (full leg) 3/8" (10mm) Clearance
 Edge Mount Option (short leg) 3/8" (10mm) Clearance
 Inset Mount Option 3/8" (10mm) Clearance

*Maximum Door Capacities	1/4" (6mm) Glass	
	Weight	Width
Using 2 Hinges	62 lbs.(28 kg)	28"(711mm)

*NOTE: Do not exceed either maximum weight or width when choosing proper quantity of hinges.

Important Information:

Template Options: The Top or Bottom Mount JRPPH01 Hinge offers numerous choices of templates. If using an Edge Mount Template, the capabilities of your temperer may determine your choice of Full Leg or Short Leg Methods. The Full Leg Method has a full leg cutout that allows a full length vertical seal on the hinge side. The Short Leg Method has a short leg cutout, resulting in an interrupted seal.

The Inset Mount Template is beneficial for two reasons. It allows a full length vertical seal. Also, by inserting the hinge a certain distance towards the center of the door, it enables the door to avoid hitting a towel bar, or some other protrusion from the wall.

Vertical Clearances: If using the Top or Bottom Mount JRPPH01 Hinges with the Junior Header Kit, disregard the suggested top clearance instructions shown on these templates. For vertical deductions using the Junior Header Kits. See page 2-22A

Optional Pivot Pins: Optional 5° Pivot Pins (Cat. No. JRP1VP1N) are sold as a set, one pin for the top hinge and one pin for the bottom hinge. These 5° offset Pivot Pins allow the installer to adjust the closing position of the door 5° inwards or outwards.

Specifications:

Glass Sizes: 1/4" (6mm) thick tempered safety glass

Construction: Solid brass

Closing Type: Self-centering when within 15° of closed position

Cutout Required

Includes: Gaskets, screws and template

Use of Gaskets:

For 1/4 (6mm) Glass: Use one thick gasket on both sides

Recommendations:

For public safety, we recommend the use of only tempered safety glass.

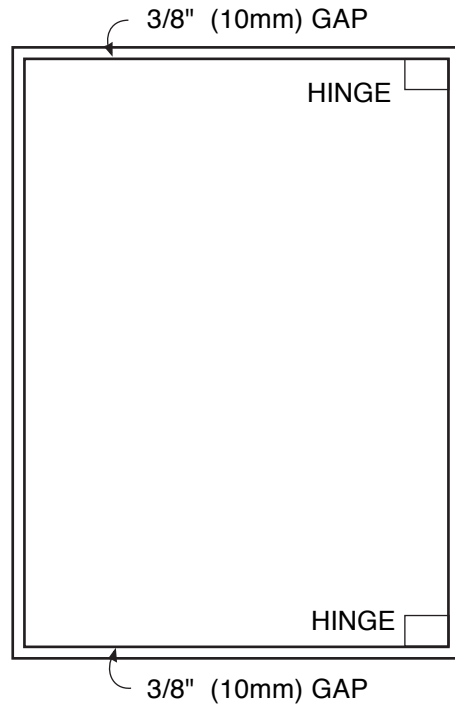
Do not use power tools when installing these hinges.

Maintenance Guidelines:

- Never use an abrasive cleaner on the hardware. Many of the components are coated with a clear lacquer that will be irreparably damaged if subjected to harsh, abrasive chemicals. Advise your customer that drying the hardware with a clean, soft towel on a daily basis is the best way to maintain the hardware. If mineral deposits build-up, mix a couple of drops of a mild liquid soap (such as Ivory or a similar product) into a cup of warm water. Using a soft, non-abrasive cloth, clean the hardware. Rinse thoroughly with clean, warm water and dry.

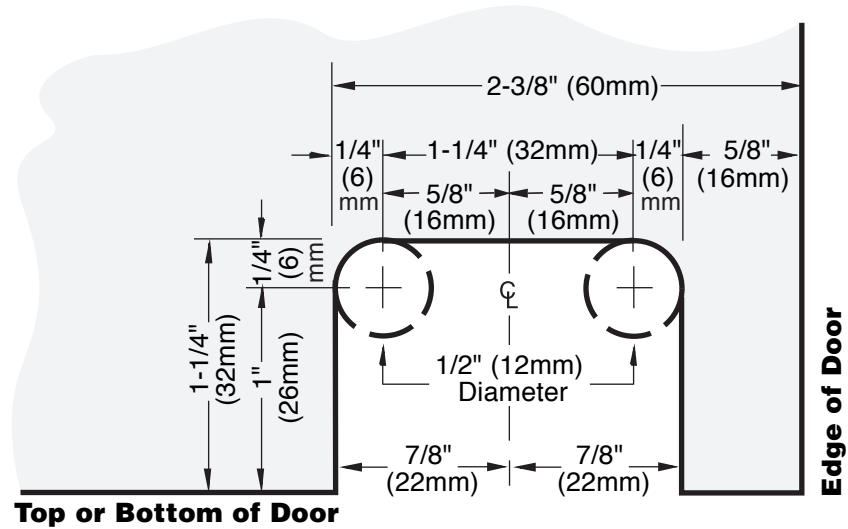


Note: Disregard top clearance shown if using CRL Junior Header Kit. See page 2-22A for vertical deductions



IMPORTANT:

Project measurements from the edge of the glass.

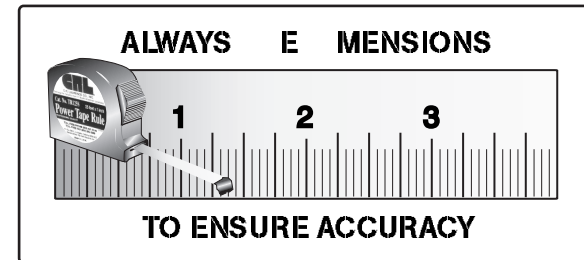


JUNIOR PRIMA

Top or Bottom Mount Hinge

CAT. No. JRPPH01

Edge Mount Option (full leg) 3/8" (10mm) Clearance



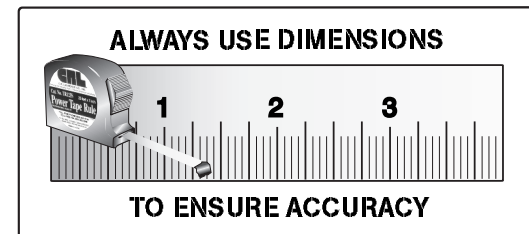
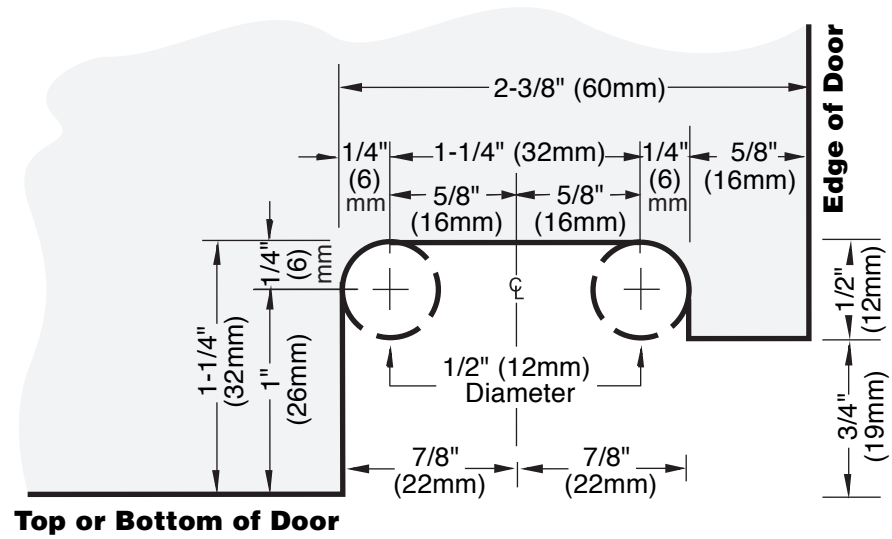
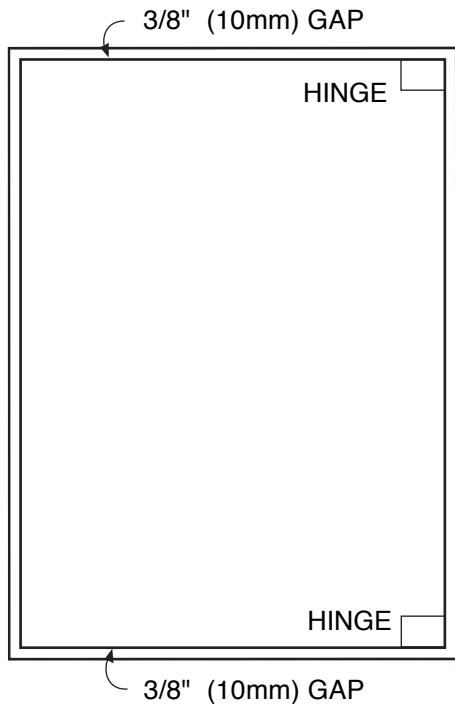


C.R. LAURENCE CO., INC.
PROFESSIONAL QUALITY

IMPORTANT:

Project measurements from the edge of the glass.

Note: Disregard top clearance shown if using CRL Junior Header Kit. See page 2-22A for vertical deductions



JUNIOR PRIMA

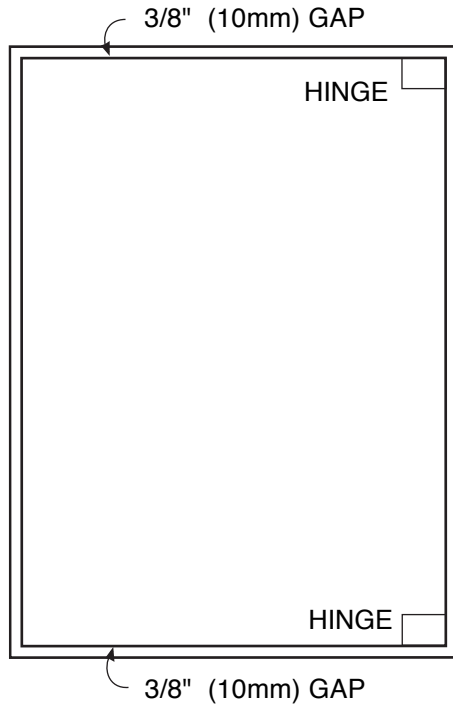
Top or Bottom Mount Hinge

Cat. No. JRPPH01

Edge Mount Option (short leg) 3/8" (10mm) clearance

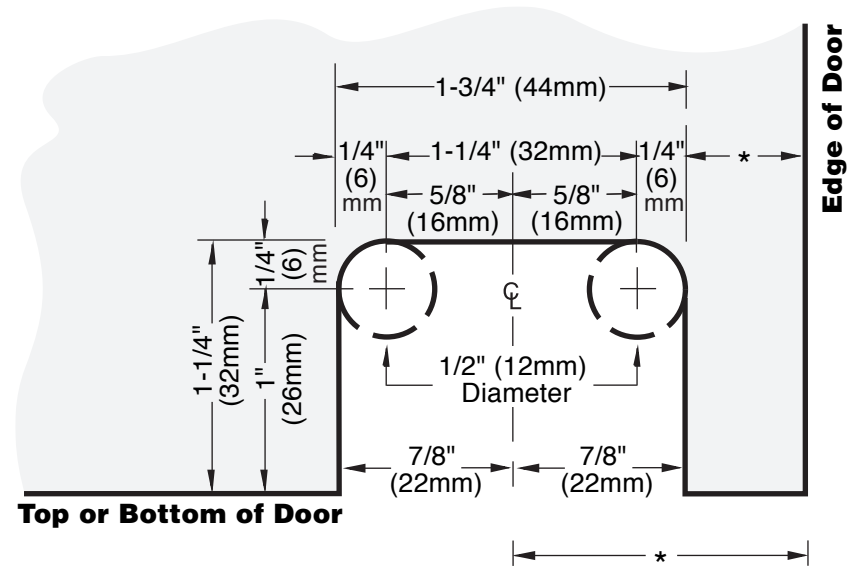


Note: Disregard top clearance shown if using CRL Junior Header Kit. See page 2-22A for vertical deductions.



IMPORTANT:

Project measurements from the edge of the glass.



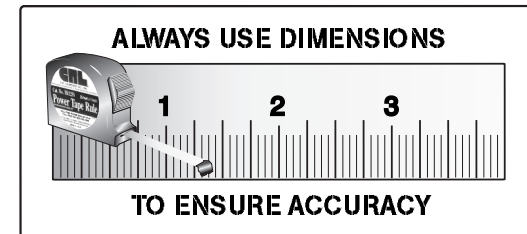
* This measurement varies depending on the amount of inset desire

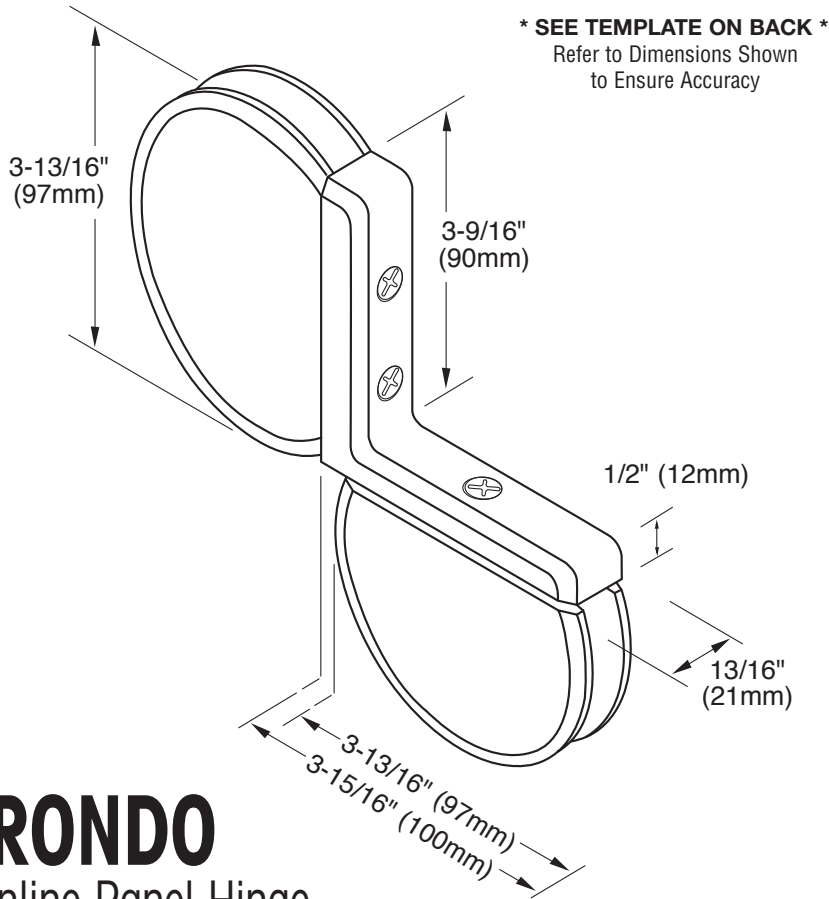
JUNIOR PRIMA

Top or Bottom Mount Hinge

Cat. No. JRPPH01

Inset Mount Option 3/8" (10mm) clearance





RONDO

Inline Panel Hinge

CAT No. RON004

Edge Mount Preferred Method (Even with Top of Door)Page 4I-14
Edge Mount Alternate Method (Even with Top of Door)Page 4I-15

*Maximum Door Capacities	5/16" (8mm) Glass		3/8" (10mm) Glass	
	Weight	Width	Weight	Width
Using 2 Hinges	100 lbs.(46 kg)	31"(787mm)	100 lbs.(46 kg)	31"(787mm)

*NOTE: Do not exceed either maximum weight or width when choosing proper quantity of hinges.

Important Information:

Template Options: The Rondo Inline Panel RON004 Hinge offers two template options, depending upon the capabilities of the temperer (see lower left of this page). The Preferred Method allows a full vertical seal along the hinge side, the Alternate Method leaves a short leg of glass, thus not allowing a full length vertical seal.

Optional Pivot Pins: Optional 5 degree Pivot Pins (Cat. No. P1VP1N) may be purchased separately. The P1VP1N is sold as a set, one pin for the top hinge and one pin for the bottom hinge. These 5° offset Pivot Pins allow the installer to adjust the closing position of the door 5° inwards or outwards.

Specifications:

- Glass Sizes:** 5/16" (8mm) to 3/8" (10mm) thick tempered safety glass
- Construction:** Solid brass
- Closing Type:** Self-centering when within 15° of closed position
- Cutout Required**
- Includes:** Gaskets, screws and template

Use of Gaskets:

- For 5/16"(8mm) Glass:** Use one thick gasket and one thin gasket on each side
- For 3/8"(10mm) Glass:** Use one thick gasket on each side

Recommendations:

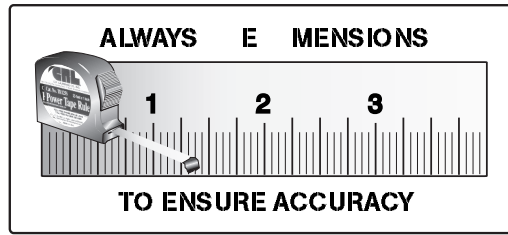
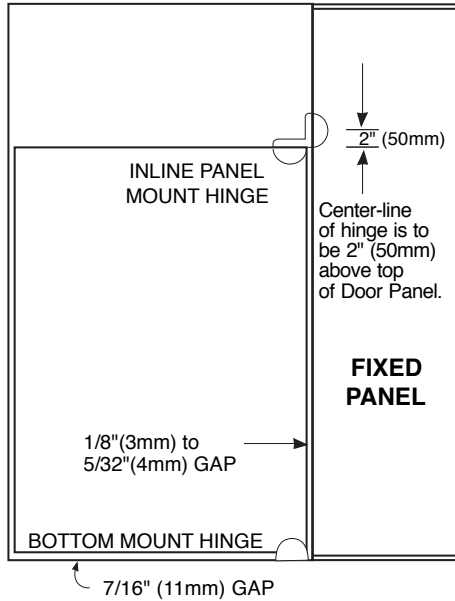
For public safety, we recommend the use of only tempered safety glass. Do not use power tools when installing these hinges.

Maintenance Guidelines:

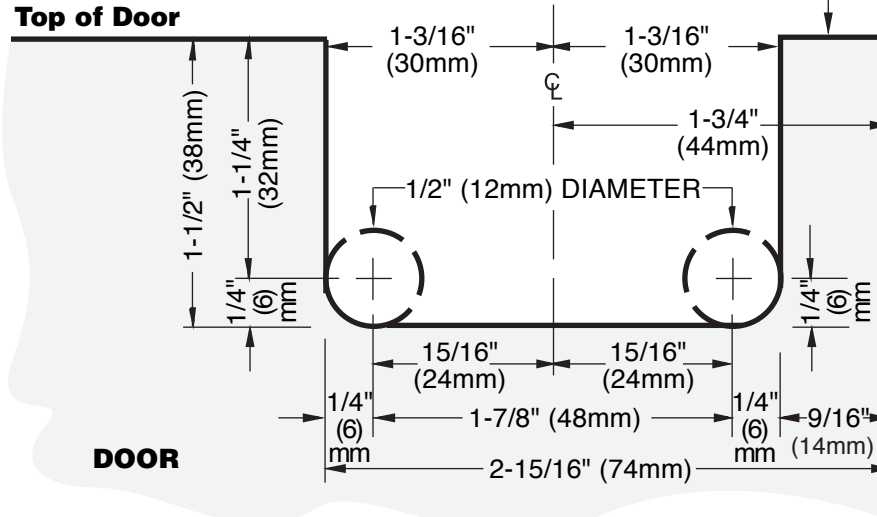
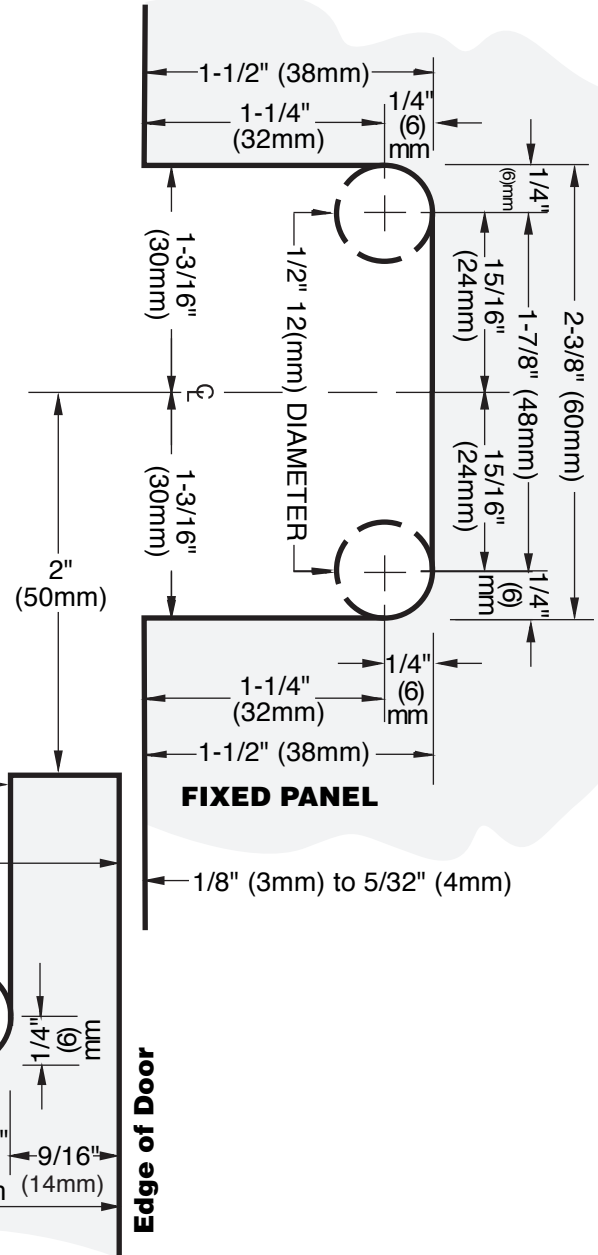
- Never use an abrasive cleaner on the hardware. Many of the components are coated with a clear lacquer that will be irreparably damaged if subjected to harsh, abrasive chemicals. Advise your customer that drying the hardware with a clean, soft towel on a daily basis is the best way to maintain the hardware. If mineral deposits build-up, mix a couple of drops of a mild liquid soap (such as Ivory or a similar product) into a cup of warm water. Using a soft, non-abrasive cloth, clean the hardware. Rinse thoroughly with clean, warm water and dry.



FRONT ELEVATION



IMPORTANT:
Project measurements from the edge of the glass.



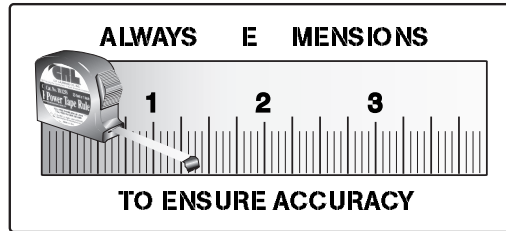
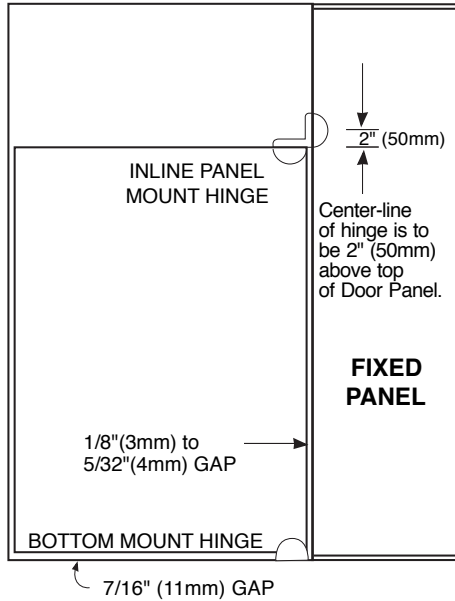
RONDO
Inline Panel Hinge
CAT No. RON004

Preferred Method (Even with Top of Door)

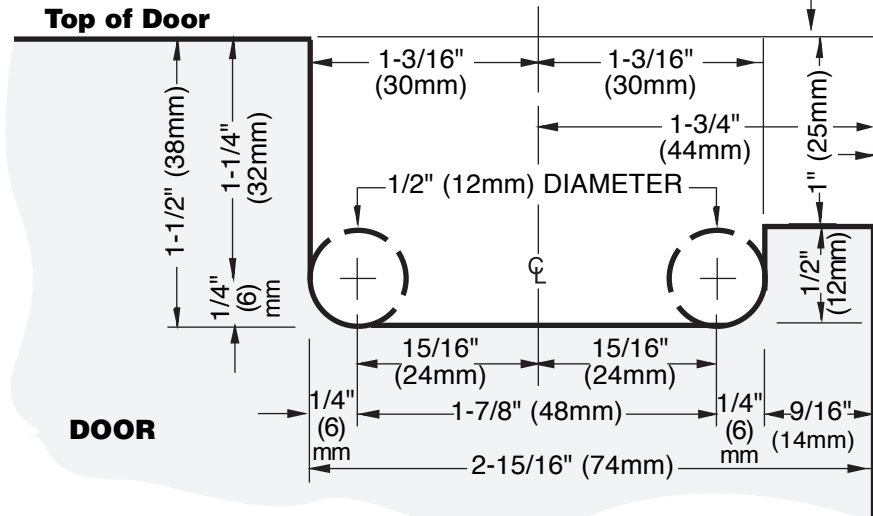
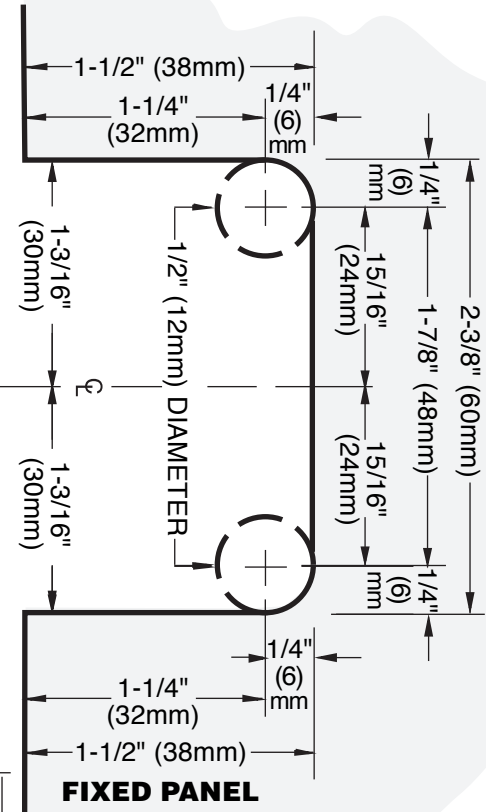


C.R. LAURENCE CO., INC.
PROFESSIONAL QUALITY

FRONT ELEVATION



IMPORTANT:
Project measurements from the edge of the glass. 2" (50mm)



RONDO
Inline Panel Hinge
CAT No. RON004

Alternate Method (Even with Top of Door)

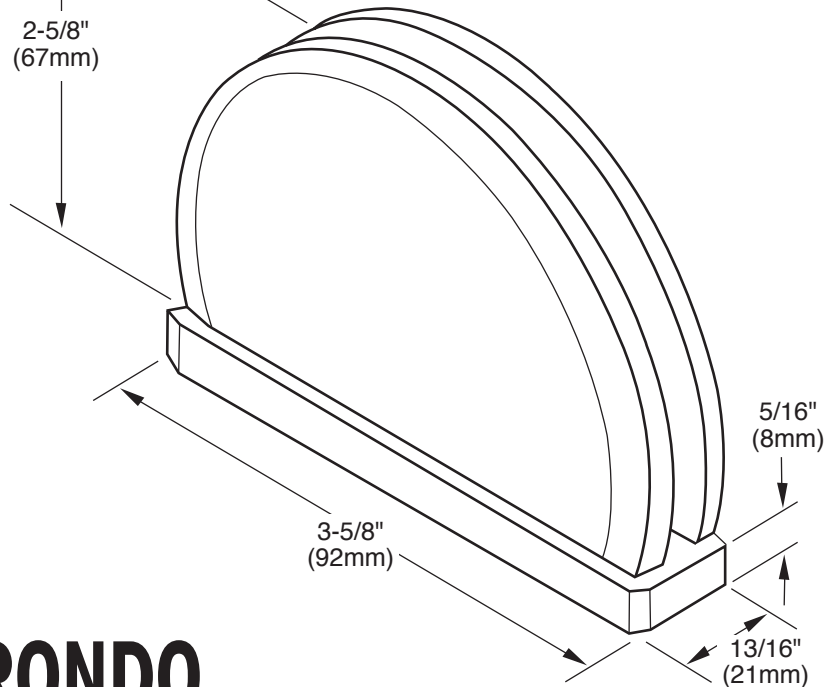


C.R. Laurence Company has established a Technical Sales Department to assist our customers. If you have any questions concerning shower door hardware or any product from CRL, please contact us at:
(800) 421-6144 in the U.S.,
or (877) 421-6144 from Canada,
and ask for Extension 7740



C.R. LAURENCE CO., INC.
PROFESSIONAL QUALITY

*** SEE TEMPLATE ON BACK ***
Refer to Dimensions Shown
to Ensure Accuracy



RONDO

Top or Bottom Mount Hinge

CAT No. RON001

Edge Mount Preferred Method	7/16" (11mm) Clearance	.....Page 4I-2
Edge Mount Alternate Method	7/16" (11mm) Clearance	.....Page 4I-3
Inset Mount Method	7/16" (11mm) Clearance	.....Page 4I-4

*Maximum Door Capacities	5/16" (8mm) Glass Weight	5/16" (8mm) Glass Width	3/8" (10mm) Glass Weight	3/8" (10mm) Glass Width
Using 2 Hinges	100 lbs.(46 kg)	31"(787mm)	100 lbs.(46 kg)	31"(787mm)

***NOTE:** Do not exceed either maximum weight or width when choosing proper quantity of hinges.

Important Information:

Template Options: The Top or Bottom Mount RON001 Hinge offers numerous choices of templates. Refer to the lower left hand corner of this page for the various selections. If using an Edge Mount Template, the capabilities of your temperer may determine your choice of Preferred or Alternate Methods. The Preferred Method has a full leg cutout that allows a full length vertical seal on the hinge side. The Alternate Method has a short leg cutout, resulting in an interrupted seal.

The Inset Mount Template is beneficial for two reasons. It allows a full length vertical seal. Also, by inseting the hinge a certain distance towards the center of the door, it enables the door to avoid hitting a towel bar, or some other protrusion from the wall.

Vertical Clearances: If using the Top or Bottom Mount RON001 Hinges with the CRL Deluxe Header Kit, DISREGARD the suggested top clearance instructions shown on these templates. For vertical deductions using the Header Kit, refer to page 2-22 in Section 2.

Optional Pivot Pins: Optional 5° Pivot Pins (Cat. No. P1VP1N) are sold as a set, one pin for the top hinge and one pin for the bottom hinge. These 5° offset Pivot Pins allow the installer to adjust the closing position of the door 5° inwards or outwards.

Specifications:

Glass Sizes: 5/16" (8mm) to 3/8" (10mm) thick tempered safety glass

Construction: Solid brass

Closing Type: Self-centering when within 15° of closed position

Cutout Required

Includes: Gaskets, screws and template

Use of Gaskets:

For 5/16"(8mm) Glass: Use one thick gasket and one thin gasket on each side

For 3/8"(10mm) Glass: Use one thick gasket on each side

Recommendations:

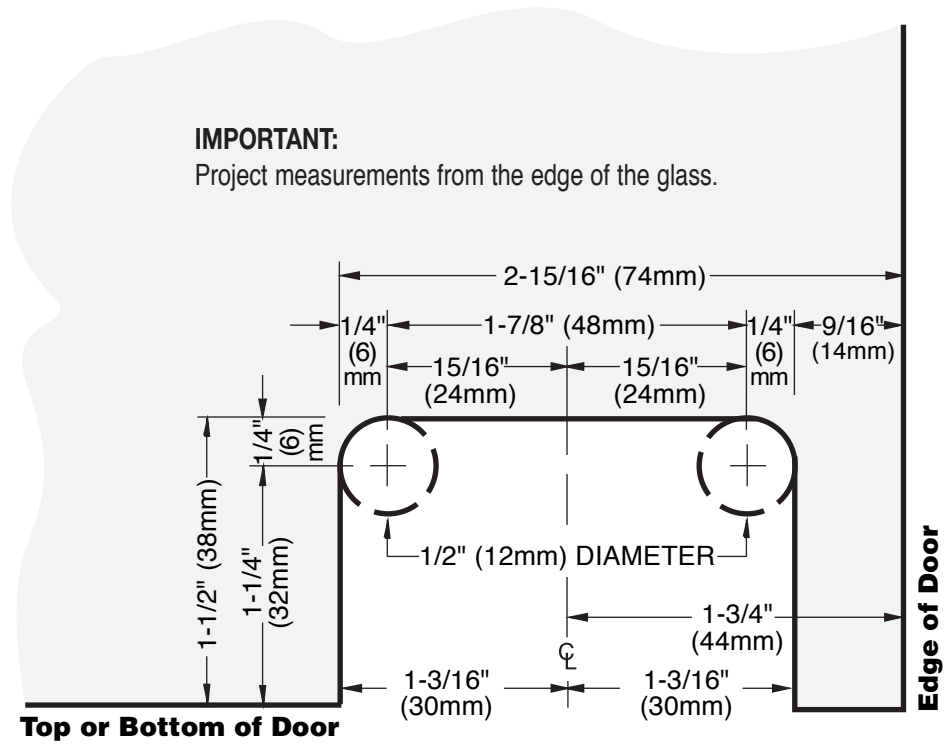
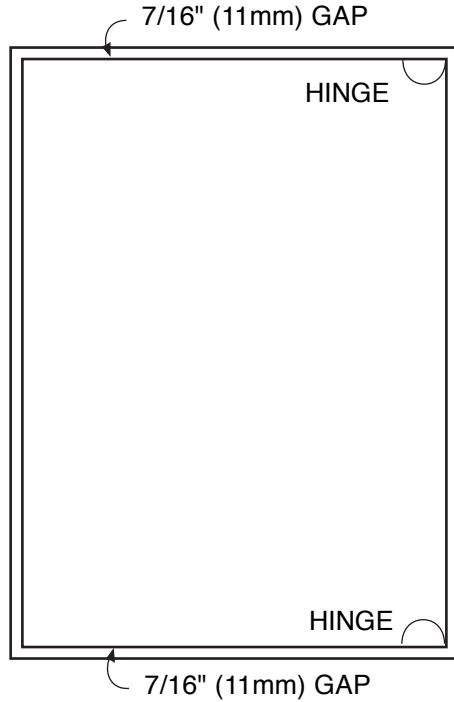
For public safety, we recommend the use of only tempered safety glass. Do not use power tools when installing these hinges.

Maintenance Guidelines:

- Never use an abrasive cleaner on the hardware. Many of the components are coated with a clear lacquer that will be irreparably damaged if subjected to harsh, abrasive chemicals. Advise your customer that drying the hardware with a clean, soft towel on a daily basis is the best way to maintain the hardware. If mineral deposits build-up, mix a couple of drops of a mild liquid soap (such as Ivory or a similar product) into a cup of warm water. Using a soft, non-abrasive cloth, clean the hardware. Rinse thoroughly with clean, warm water and dry.



NOTE: Disregard vertical clearance shown if using CRL Deluxe Header Kit.
 See page 2-22 for vertical deductions.

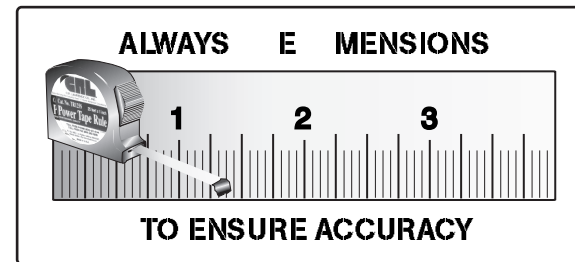


RONDO

Top or Bottom Mount Hinge

CAT No. RON001

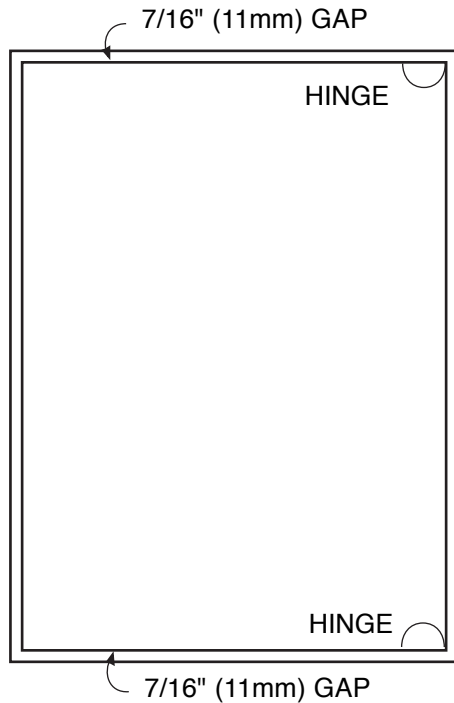
Edge Mount Preferred Method 7/16" (11mm) Clearance





C.R. LAURENCE CO., INC.
PROFESSIONAL QUALITY

NOTE: Disregard vertical clearance shown if using CRL Deluxe Header Kit.
See page 2-22 for vertical deductions.



RONDO

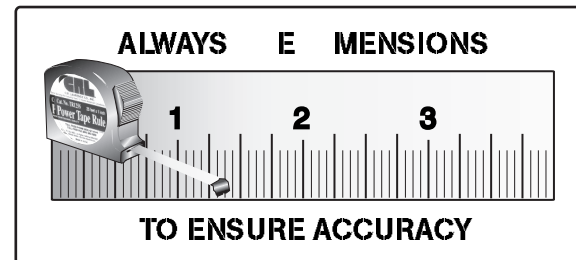
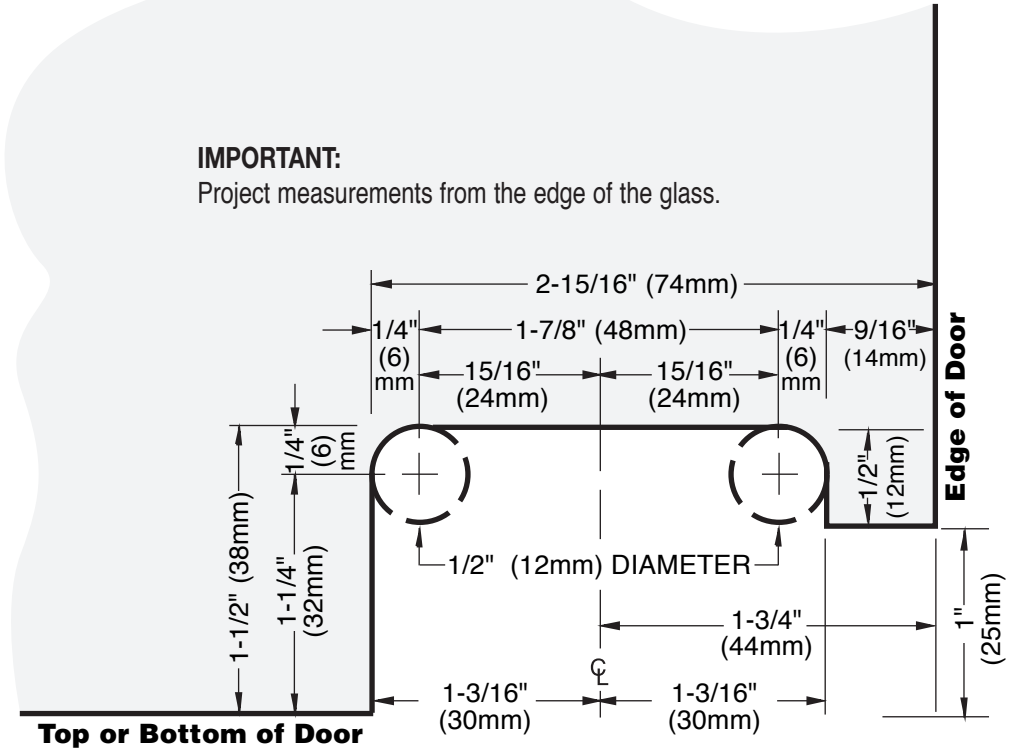
Top or Bottom Mount Hinge

CAT No. RON001

Edge Mount Alternate Method 7/16" (11mm) Clearance

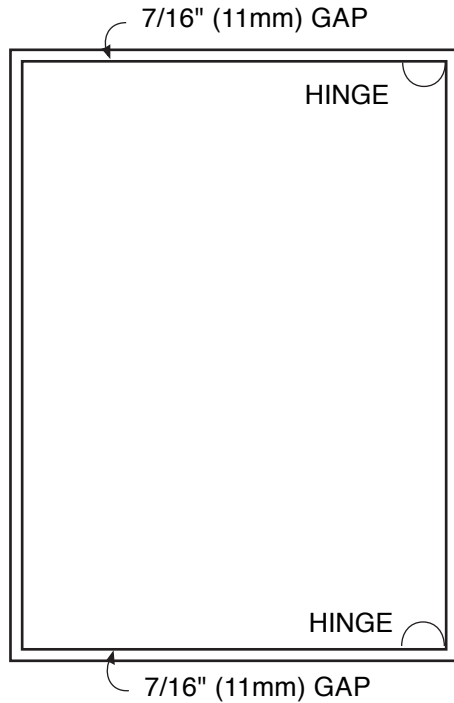
IMPORTANT:

Project measurements from the edge of the glass.



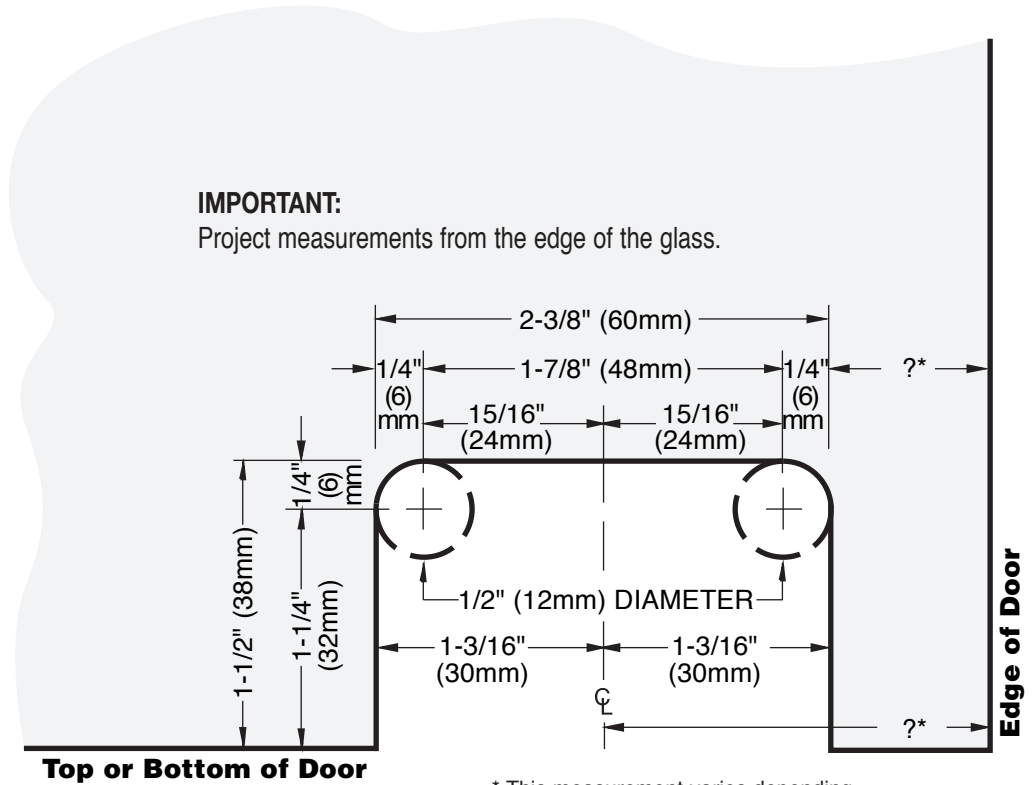


NOTE: Disregard vertical clearance shown if using CRL Deluxe Header Kit.
 See page 2-22 for vertical deductions.



IMPORTANT:

Project measurements from the edge of the glass.



* This measurement varies depending on the amount to inset you desire.

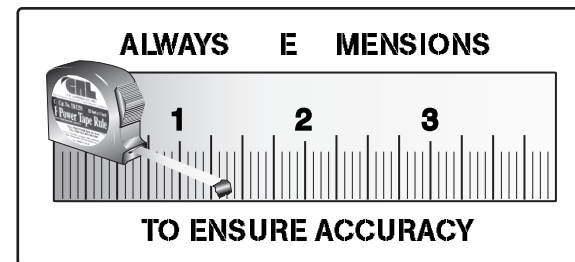
RONDO

Top or Bottom Mount Hinge

Cat No. RON001

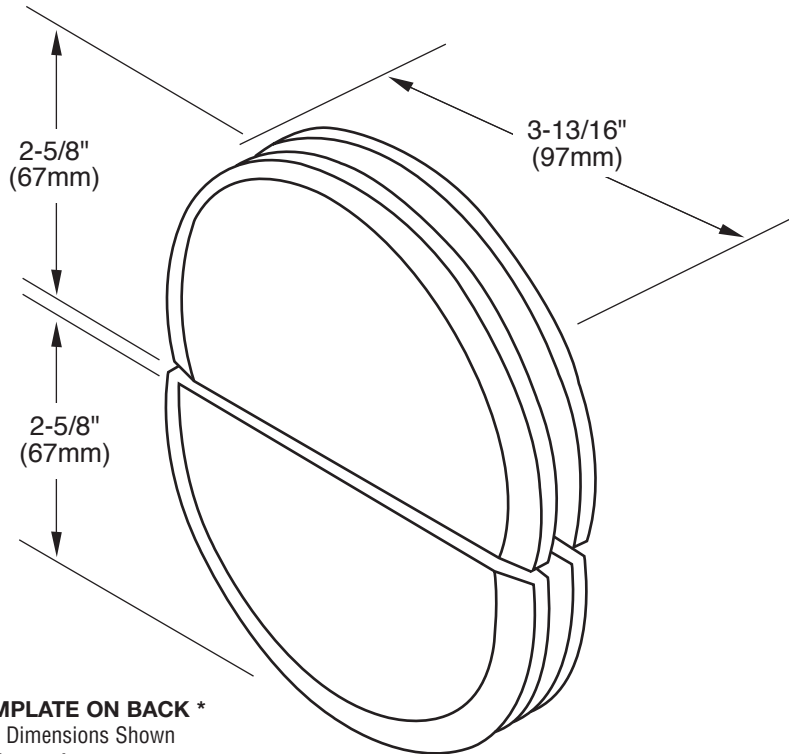
Inset Mount Method

7/16" (11mm) Clearance





C.R. LAURENCE CO., INC.
PROFESSIONAL QUALITY



*** SEE TEMPLATE ON BACK ***
Refer to Dimensions Shown
to Ensure Accuracy

RONDO

Glass-to-Glass Hinge

CAT No. RON002

Edge Mount Preferred Method 1/8" (3mm) to 3/16" (5mm) ClearancePage 4I-6
 Edge Mount Alternate Method 1/8" (3mm) to 3/16" (5mm) ClearancePage 4I-7
 Inset Mount Method 1/8" (3mm) to 3/16" (5mm) ClearancePage 4I-8

*Maximum Door Capacities	5/16" (8mm) Glass		3/8" (10mm) Glass	
	Weight	Width	Weight	Width
Using 2 Hinges	100 lbs.(46 kg)	31"(787mm)	100 lbs.(46 kg)	31"(787mm)

***NOTE:** Do not exceed either maximum weight or width when choosing proper quantity of hinges.

Important Information:

Template Options: The Glass-to-Glass Mount RON002 Hinge offers numerous choices of templates. Refer to the lower left hand corner of this page for the various selections. If using an Edge Mount Template, the capabilities of your temperer may determine your choice of Preferred or Alternate Methods. The Preferred Method has a full leg cutout that allows a full length vertical seal on the hinge side. The Alternate Method has short leg cutout, resulting in an interrupted seal.

The Inset Mount Template is beneficial for two reasons. It allows a full length vertical seal. Also, by inseting the hinge a certain distance towards the center of the door, it enables the door to avoid hitting a towel bar, or some other protrusion from the wall.

Optional Pivot Pins: Optional 5° Pivot Pins (Cat. No. P1VP1N) are sold as a set, one pin for the top hinge and one pin for the bottom hinge. These 5° offset Pivot Pins allow the installer to adjust the closing position of the door 5° inwards or outwards.

Specifications:

Glass Sizes: 5/16" (8mm) to 3/8" (10mm) thick tempered safety glass

Construction: Solid brass

Closing Type: Self-centering when within 15° of closed position

Cutout Required

Includes: Gaskets, screws and template

Use of Gaskets:

For 5/16"(8mm) Glass: Use one thick gasket and one thin gasket on each side

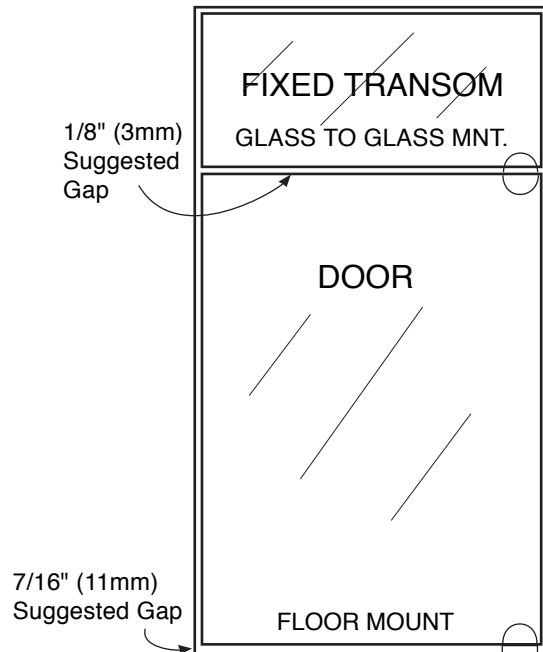
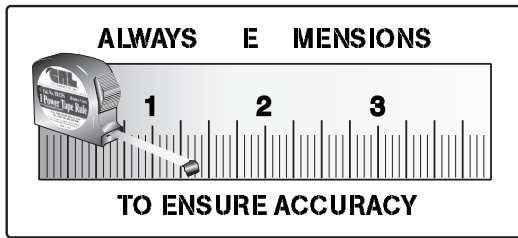
For 3/8"(10mm) Glass: Use one thick gasket on each side

Recommendations:

For public safety, we recommend the use of only tempered safety glass. Do not use power tools when installing these hinges.

Maintenance Guidelines:

- Never use an abrasive cleaner on the hardware. Many of the components are coated with a clear lacquer that will be irreparably damaged if subjected to harsh, abrasive chemicals. Advise your customer that drying the hardware with a clean, soft towel on a daily basis is the best way to maintain the hardware. If mineral deposits build-up, mix a couple of drops of a mild liquid soap (such as Ivory or a similar product) into a cup of warm water. Using a soft, non-abrasive cloth, clean the hardware. Rinse thoroughly with clean, warm water and dry.



RONDO

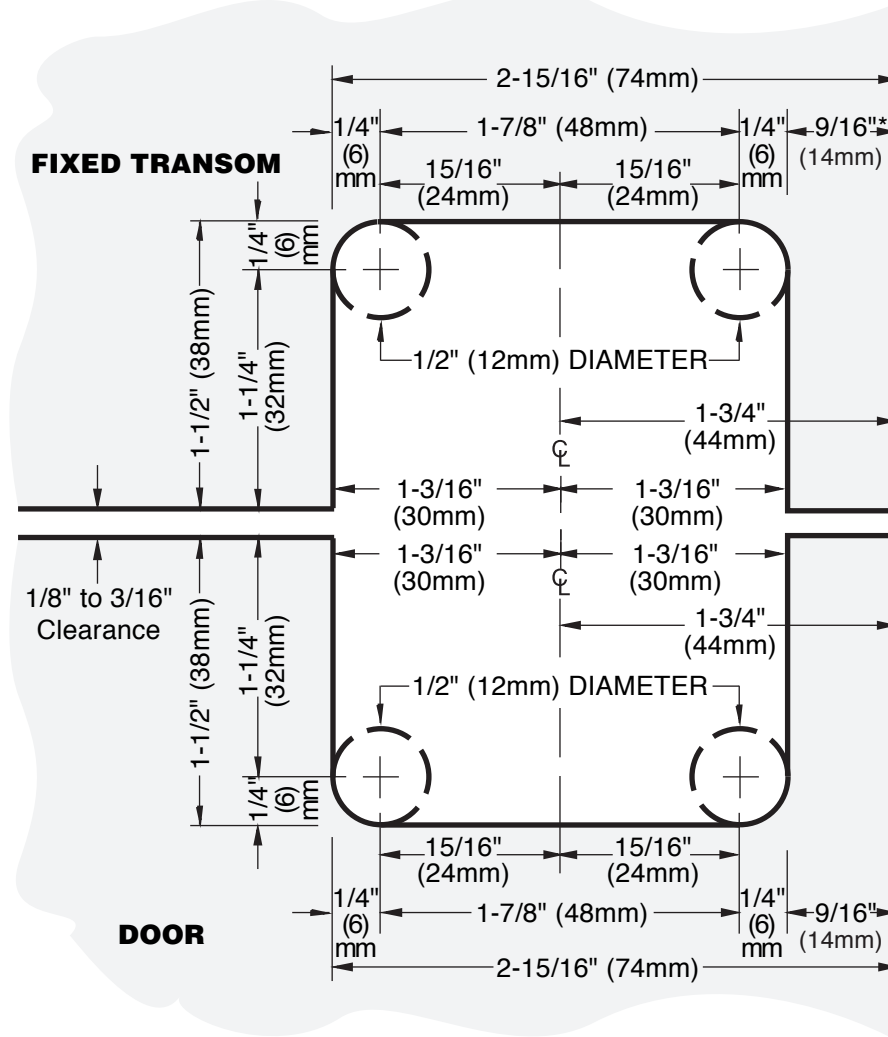
Top or Bottom Mount Hinge

CAT No. RON002

Edge Mount Preferred Method (1/8" (3mm) to 3/16" (5mm) Clearance)

IMPORTANT:

Project measurements from the edge of the glass.



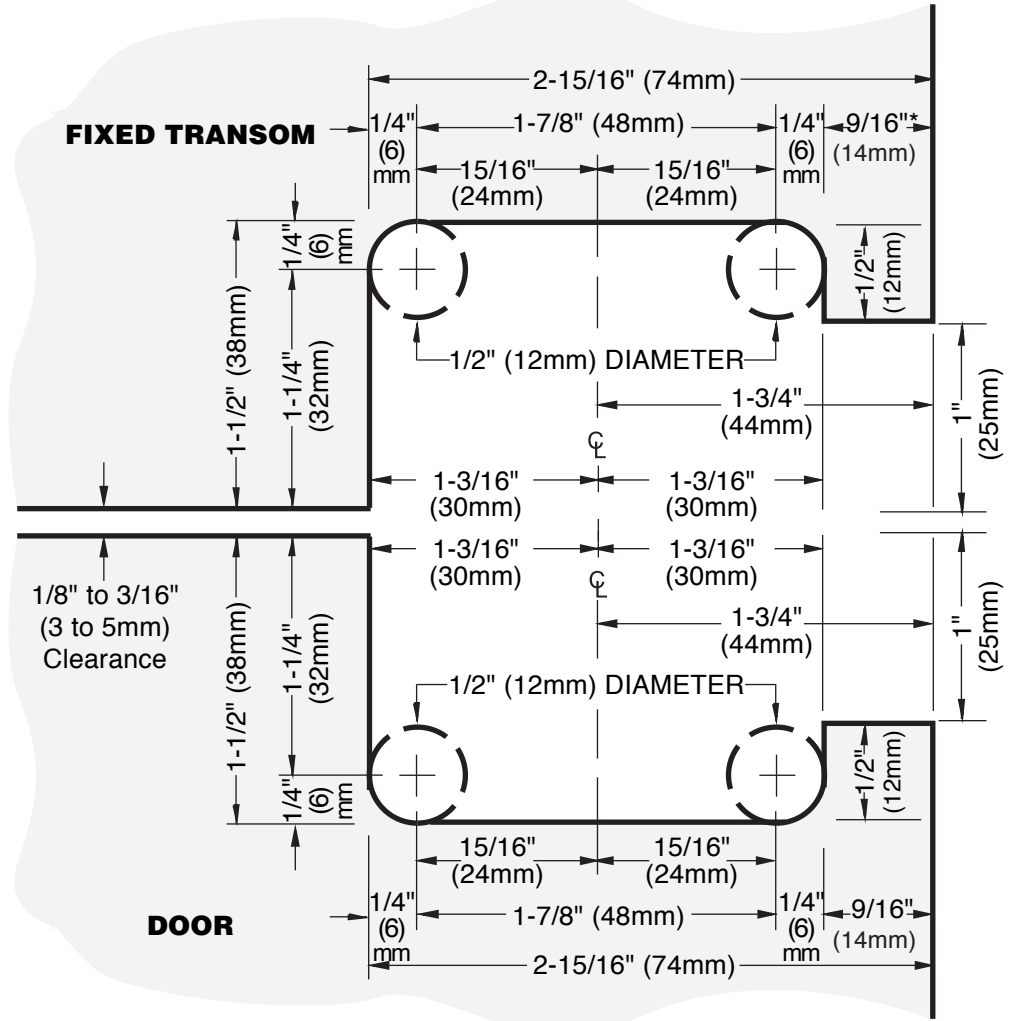
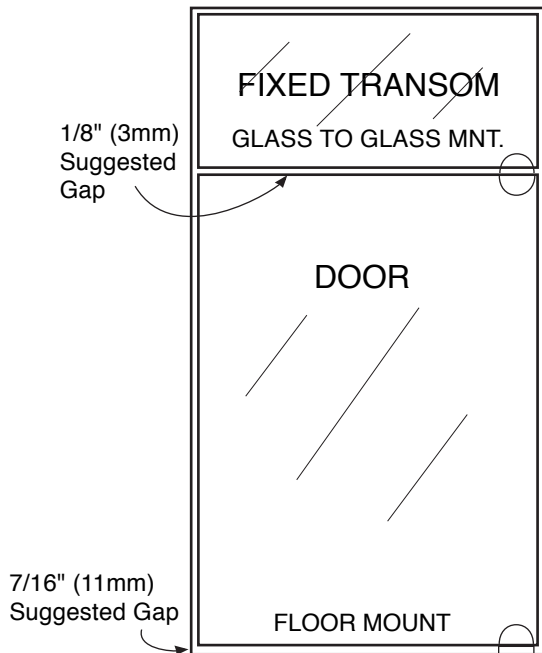
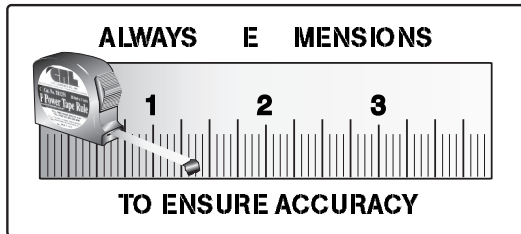
* The 9/16" (14mm) measurement is ok as long as the fixed panel side clearance is the same as the door side clearance. If not, make the appropriate add-on or deduction.



C.R. LAURENCE CO., INC.
PROFESSIONAL QUALITY

IMPORTANT:

Project measurements from the edge of the glass.



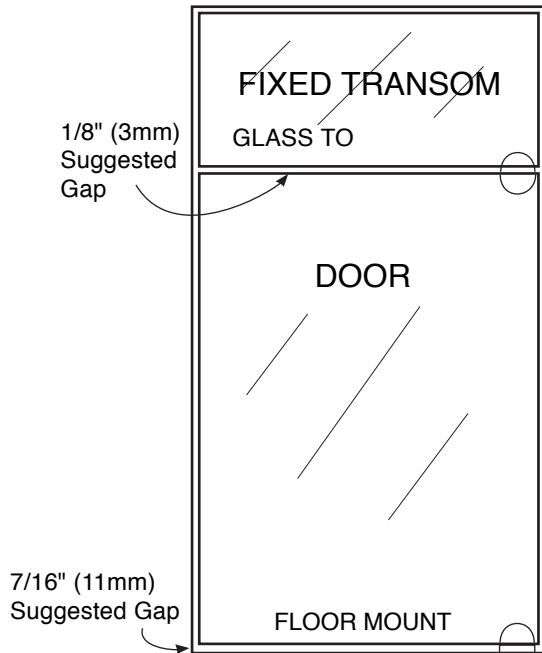
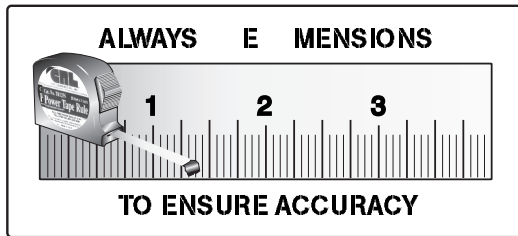
RONDO

Glass-to-Glass Hinge

Cat No. RON002

Edge Mount Alternate Method (1/8" (3mm) to 3/16" (5mm) Clearance)

* The 9/16" (14mm) measurement is ok as long as the fixed panel side clearance is the same as the door side clearance. If not, make the appropriate add-on or deduction.



RONDO

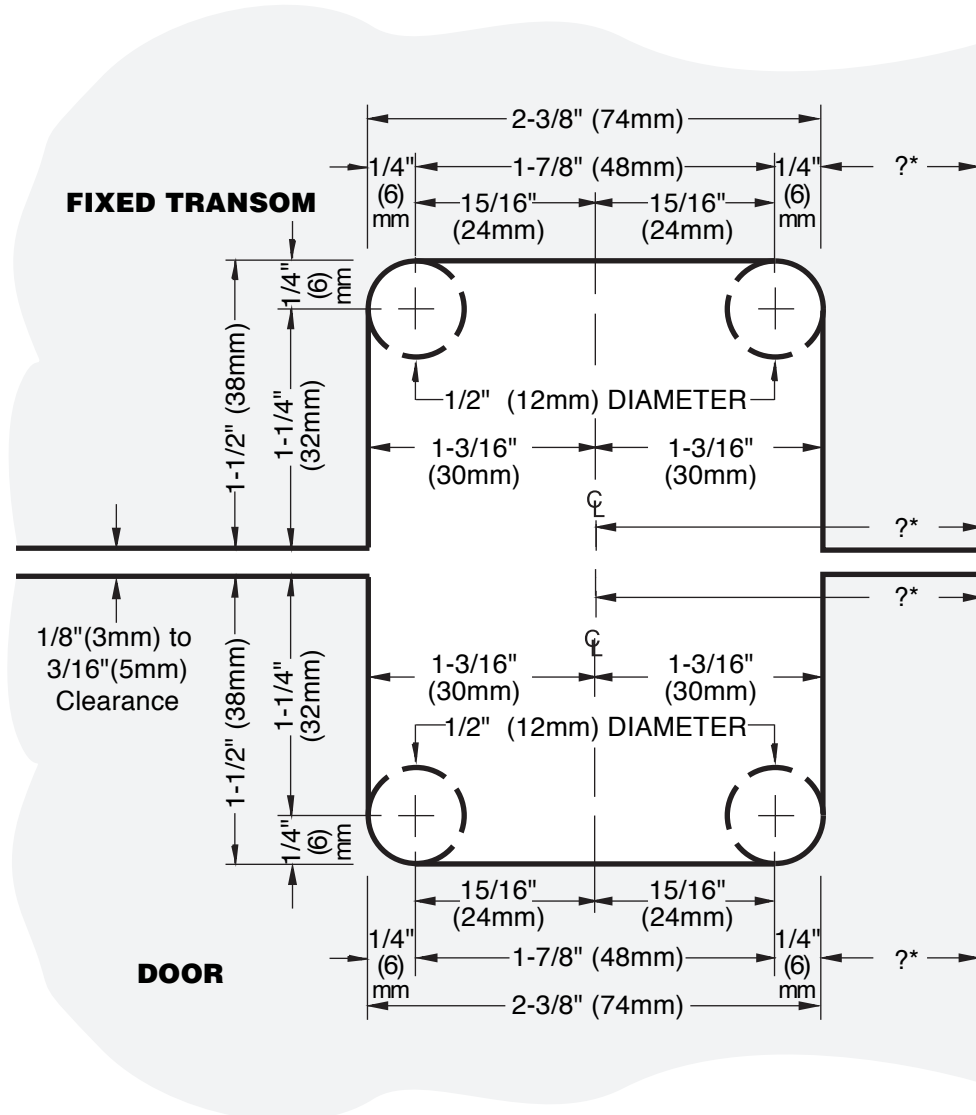
Glass-to-Glass Hinge

CAT No. RON002

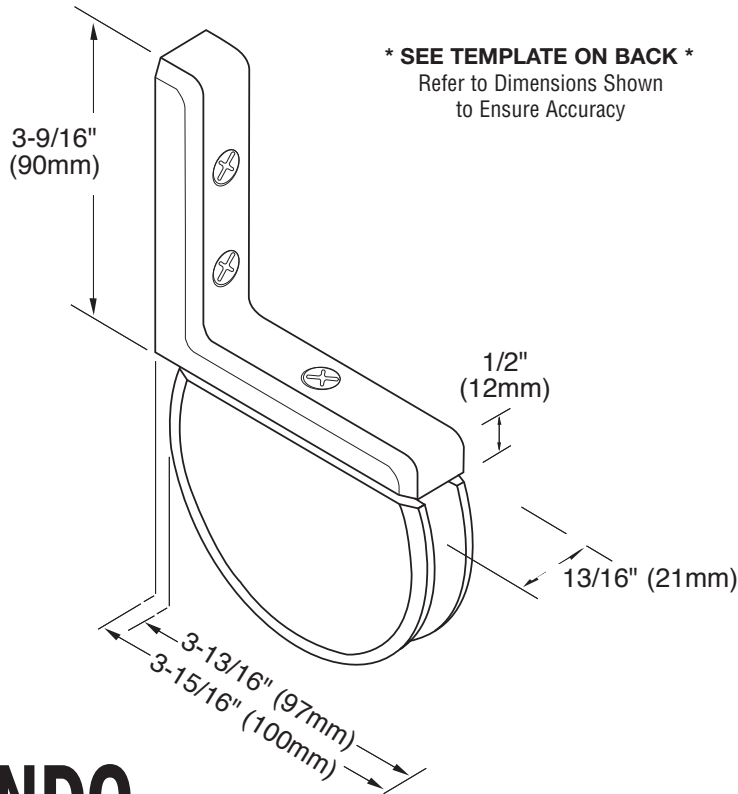
Inset Mount Method (1/8" (3mm) to 3/16" (5mm) Clearance)

IMPORTANT:

Project measurements from the edge of the glass.



*This measurement varies depending on the amount of inset you desire.



RONDO

Wall Mount Hinge

Cat No. RON003

Edge Mount Preferred Method (Even with Top of Door)Page 4I-10
 Edge Mount Alternate Method (Even With Top of Door)Page 4I-11

*Maximum Door Capacities	5/16" (8mm) Glass		3/8" (10mm) Glass	
	Weight	Width	Weight	Width
Using 2 Hinges	100 lbs.(46 kg)	31"(787mm)	100 lbs.(46 kg)	31"(787mm)

*NOTE: Do not exceed either maximum weight or width when choosing proper quantity of hinges.

Important Information:

Template Options: The Rondo Wall Mount RON003 Hinge offers two template options, depending upon the capabilities of the temperer (see lower left of this page). The Preferred Method allows a full vertical seal along the hinge side, the Alternate Method leaves a short leg of glass, thus not allowing a full length vertical seal.

Optional Pivot Pins: Optional 5° Pivot Pins (Cat. No. P1VP1N) are sold as a set, one pin for the top hinge and one pin for the bottom hinge. These 5° offset Pivot Pins allow the installer to adjust the closing position of the door 5° inwards or outwards.

Specifications:

Glass Sizes: 5/16" (8mm) to 3/8" (10mm) thick tempered safety glass

Construction: Solid brass

Closing Type: Self-centering when within 15° of closed position

Cutout Required

Includes: Gaskets, screws and template

Use of Gaskets:

For 5/16"(8mm) Glass: Use one thick gasket and one thin gasket on each side

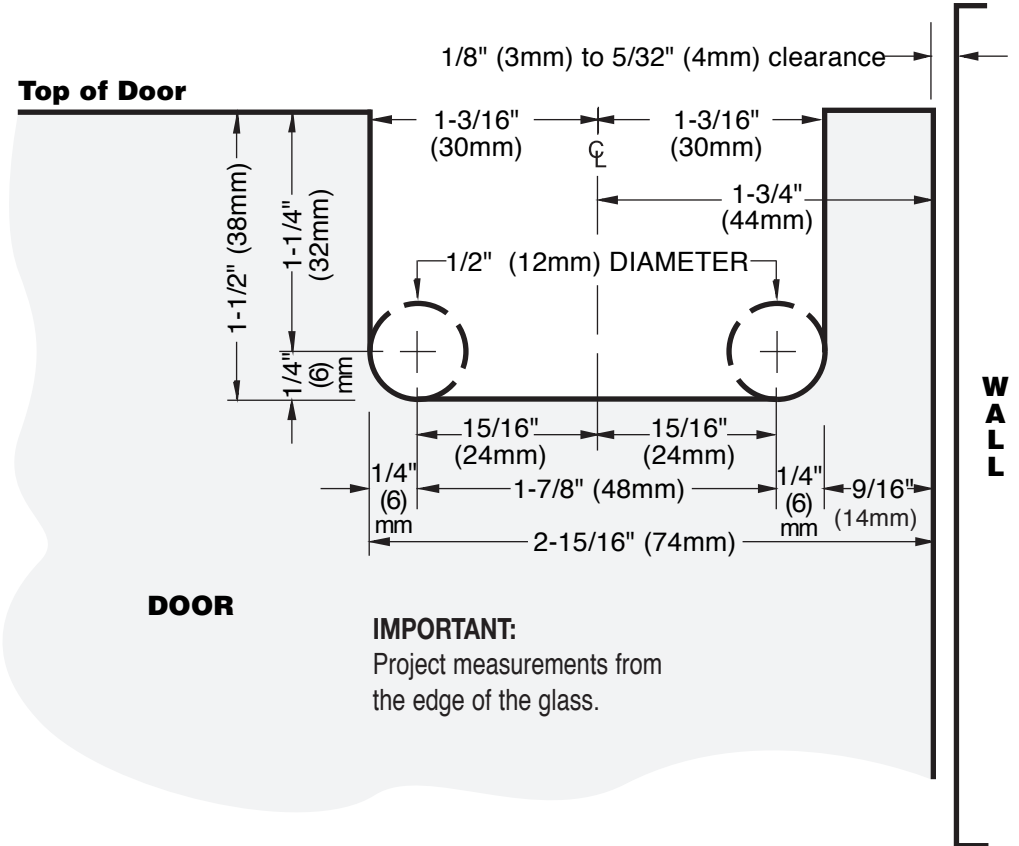
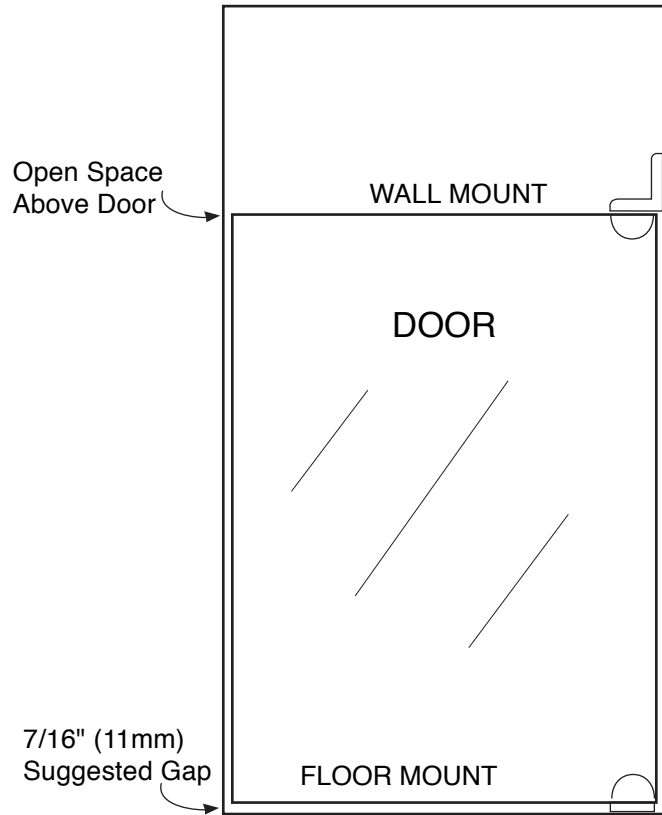
For 3/8"(10mm) Glass: Use one thick gasket on each side

Recommendations:

For public safety, we recommend the use of only tempered safety glass.
 Do not use power tools when installing these hinges.

Maintenance Guidelines:

- Never use an abrasive cleaner on the hardware. Many of the components are coated with a clear lacquer that will be irreparably damaged if subjected to harsh, abrasive chemicals. Advise your customer that drying the hardware with a clean, soft towel on a daily basis is the best way to maintain the hardware. If mineral deposits build-up, mix a couple of drops of a mild liquid soap (such as Ivory or a similar product) into a cup of warm water. Using a soft, non-abrasive cloth, clean the hardware. Rinse thoroughly with clean, warm water and dry.

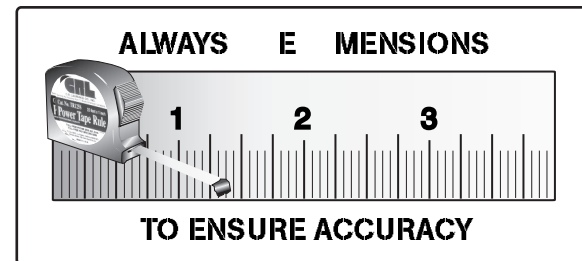


RONDO

Wall Mount Hinge

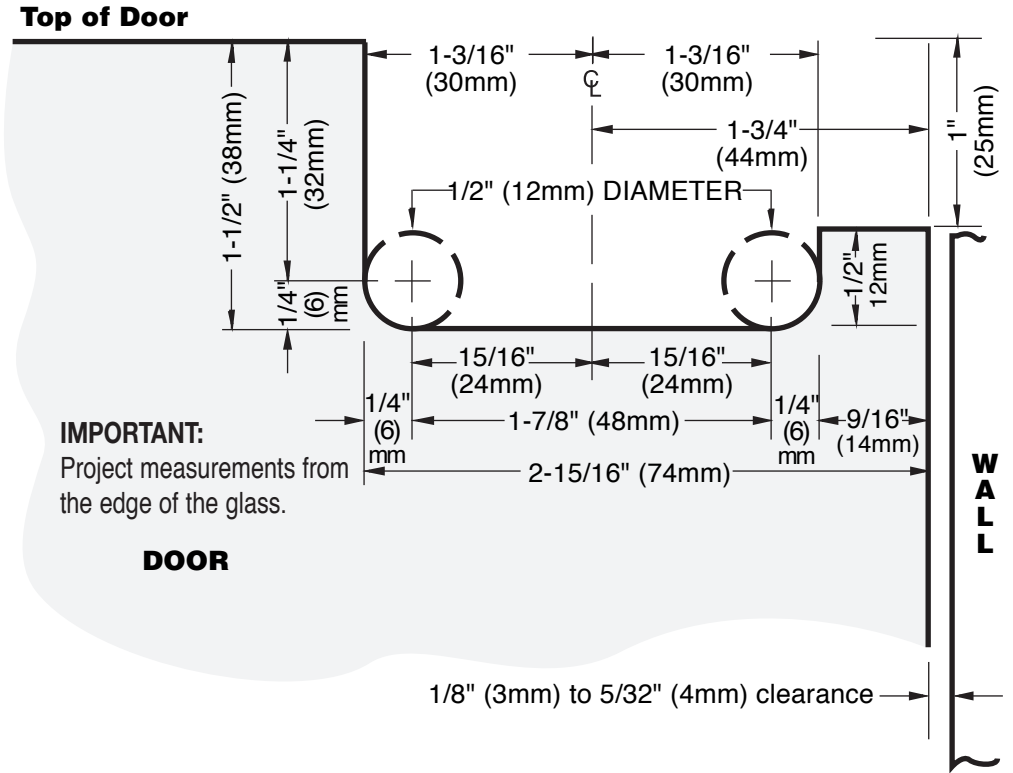
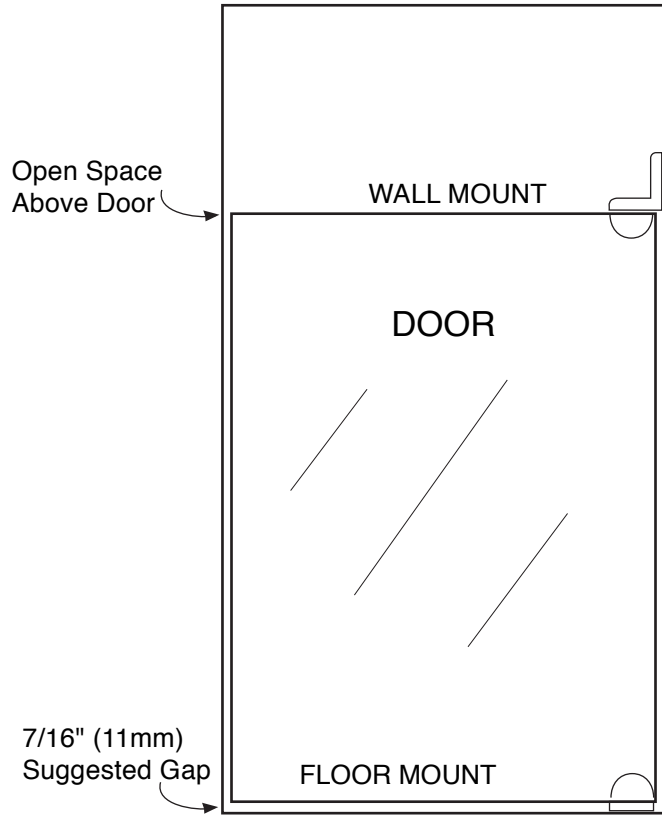
CAT No. RON003

Wall Mount Preferred Method (Even with Top of Door)





C.R. LAURENCE CO., INC.
PROFESSIONAL QUALITY

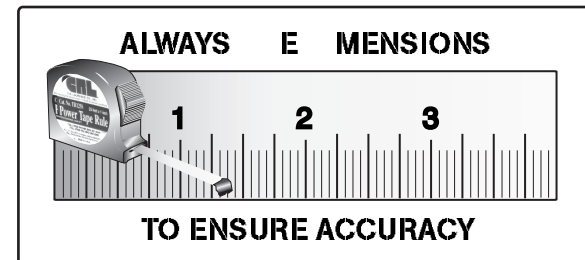


RONDO

Wall Mount Hinge

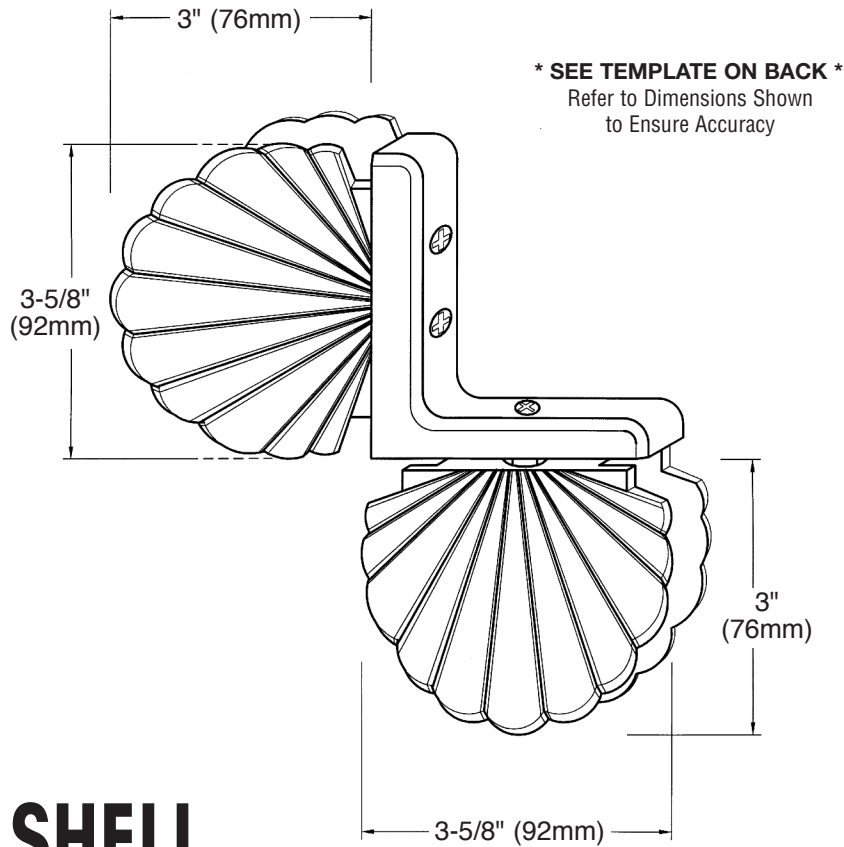
CAT No. RON003

Wall Mount Alternate Method (Even with Top of Door)





C.R. Laurence Company has established a Technical Sales Department to assist our customers. If you have any questions concerning shower door hardware or any product from CRL, please contact us at:
(800) 421-6144 in the U.S.,
or (877) 421-6144 from Canada,
and ask for Extension 7740



SHELL

In-line Panel Hinge

CAT No. SHE004

Edge Mount Preferred Method (Even with Top of Door)Page 4J-14
 Edge Mount Alternate Method (Even with Top of Door)Page 4J-15

*Maximum Door Capacities	5/16" (8mm) Glass		3/8" (10mm) Glass	
	Weight	Width	Weight	Width
Using 2 Hinges	100 lbs.(46 kg)	31"(787mm)	100 lbs.(46 kg)	31"(787mm)

***NOTE:** Do not exceed either maximum weight or width when choosing proper quantity of hinges.

Important Information:

Template Options: The Shell In-line Panel SHE004 Hinge offers two template options, depending upon the capabilities of the temperer (see lower left of this page). The Preferred Method allows a full vertical seal along the hinge side, the Alternate Method leaves a short leg of glass, thus not allowing a full length vertical seal.

Optional Pivot Pins: Optional 5 degree Pivot Pins (cat. no. P1VP1N) may be purchased separately. The P1VP1N is sold as a set, one pin for the top hinge and one pin for the bottom hinge. These 5° offset Pivot Pins allow the installer to adjust the closing position of the door 5° inwards or outwards.

Specifications:

Glass Sizes: 5/16" (8mm) to 3/8" (10mm) thick tempered safety glass

Construction: Solid brass

Closing Type: Self-centering when within 15° of closed position

Cutout Required Includes: Gaskets, screws and template

Use of Gaskets:

For 5/16"(8mm) Glass: Use one thick gasket and one thin gasket on each side

For 3/8"(10mm) Glass: Use one thick gasket on each side

Recommendations:

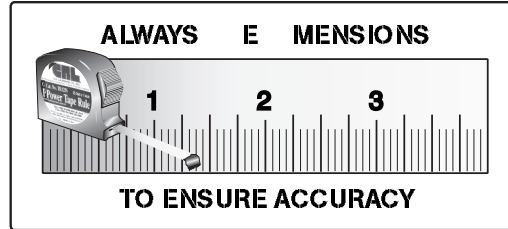
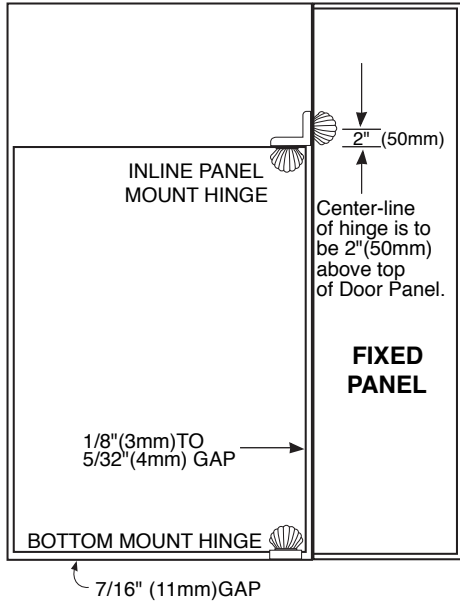
For public safety, we recommend the use of only tempered safety glass. Do not use power tools when installing these hinges.

Maintenance Guidelines:

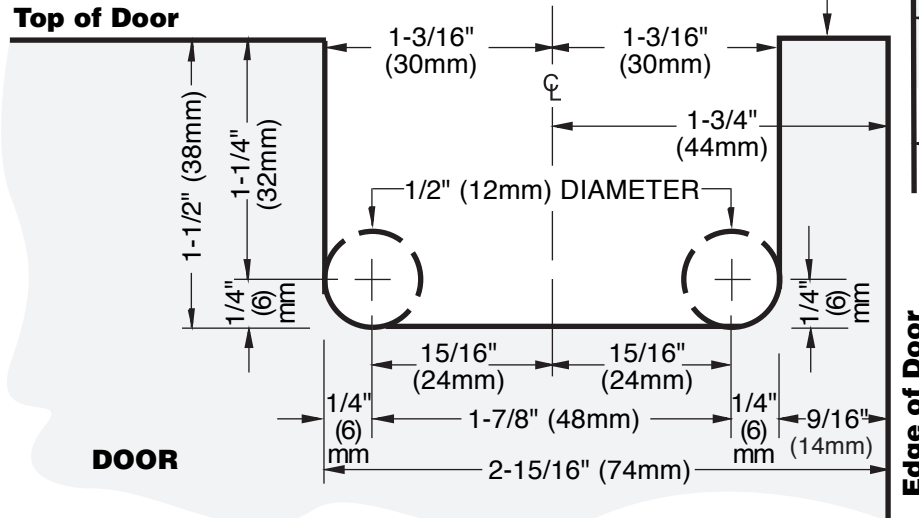
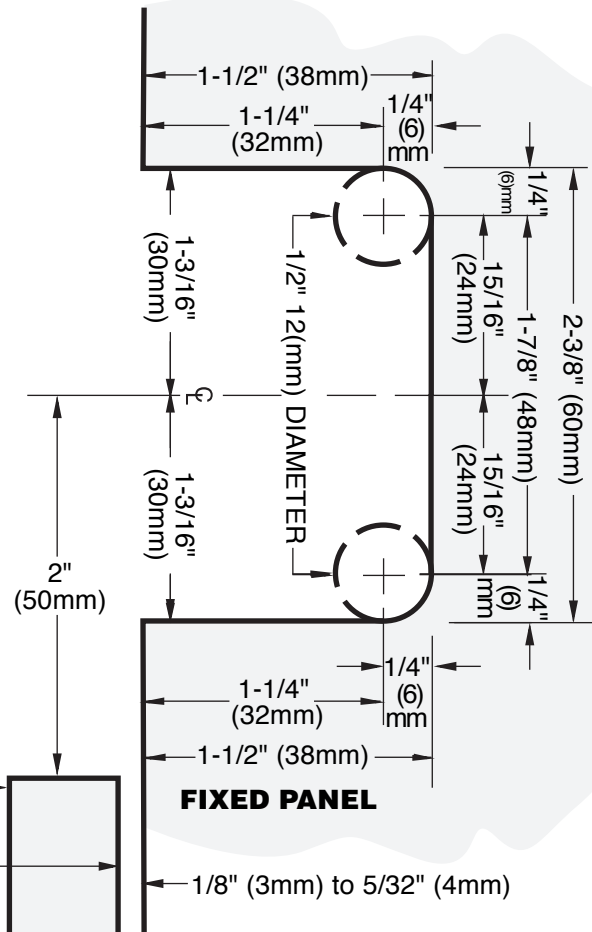
- Never use an abrasive cleaner on the hardware. Many of the components are coated with a clear lacquer that will be irreparably damaged if subjected to harsh, abrasive chemicals. Advise your customer that drying the hardware with a clean, soft towel on a daily basis is the best way to maintain the hardware. If mineral deposits build-up, mix a couple of drops of a mild liquid soap (such as Ivory or a similar product) into a cup of warm water. Using a soft, non-abrasive cloth, clean the hardware. Rinse thoroughly with clean, warm water and dry.



FRONT ELEVATION



IMPORTANT:
Project measurements from the edge of the glass.



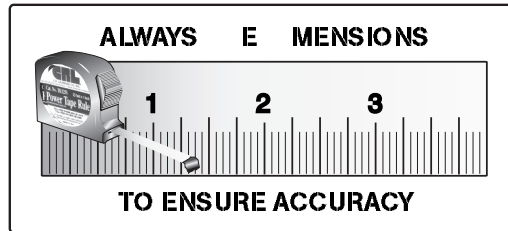
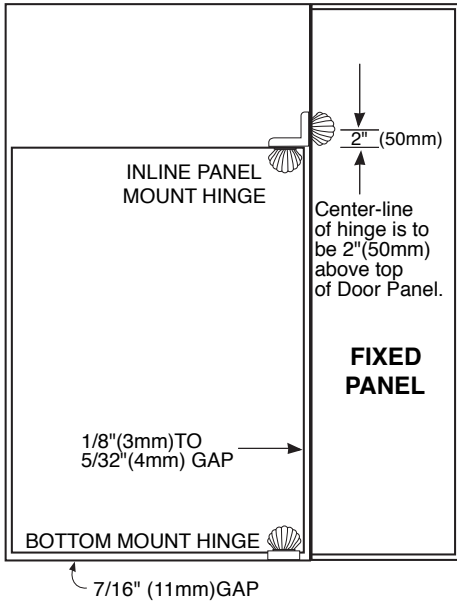
SHELL

Inline Panel Hinge
CAT No. SHE004

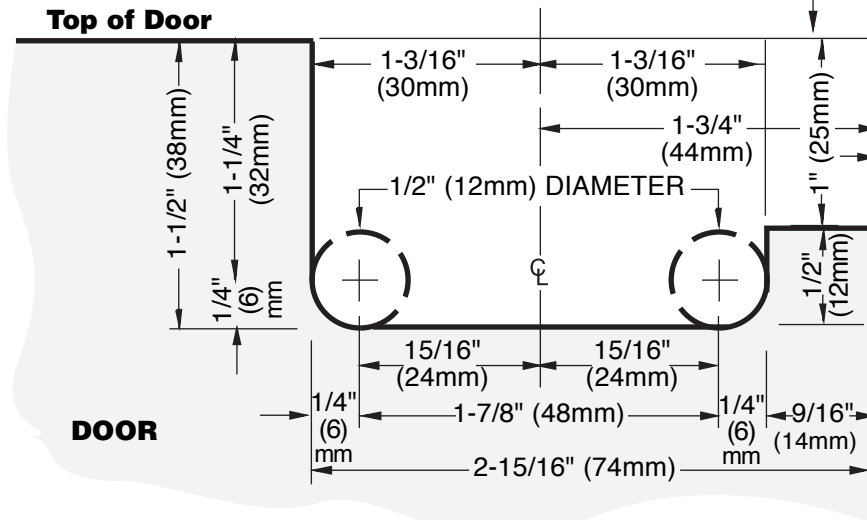
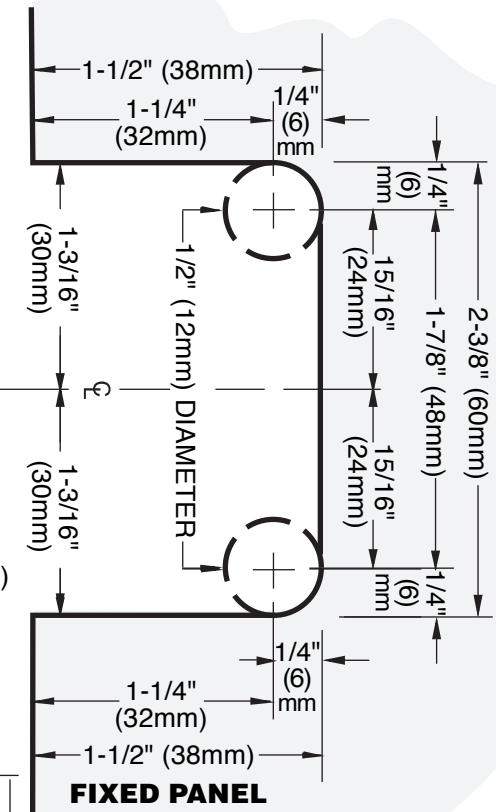
Preferred Method (Even with Top of Door)



FRONT ELEVATION



IMPORTANT:
Project measurements from the edge of the glass.



SHELL

Inline Panel Hinge

CAT No. SHE004

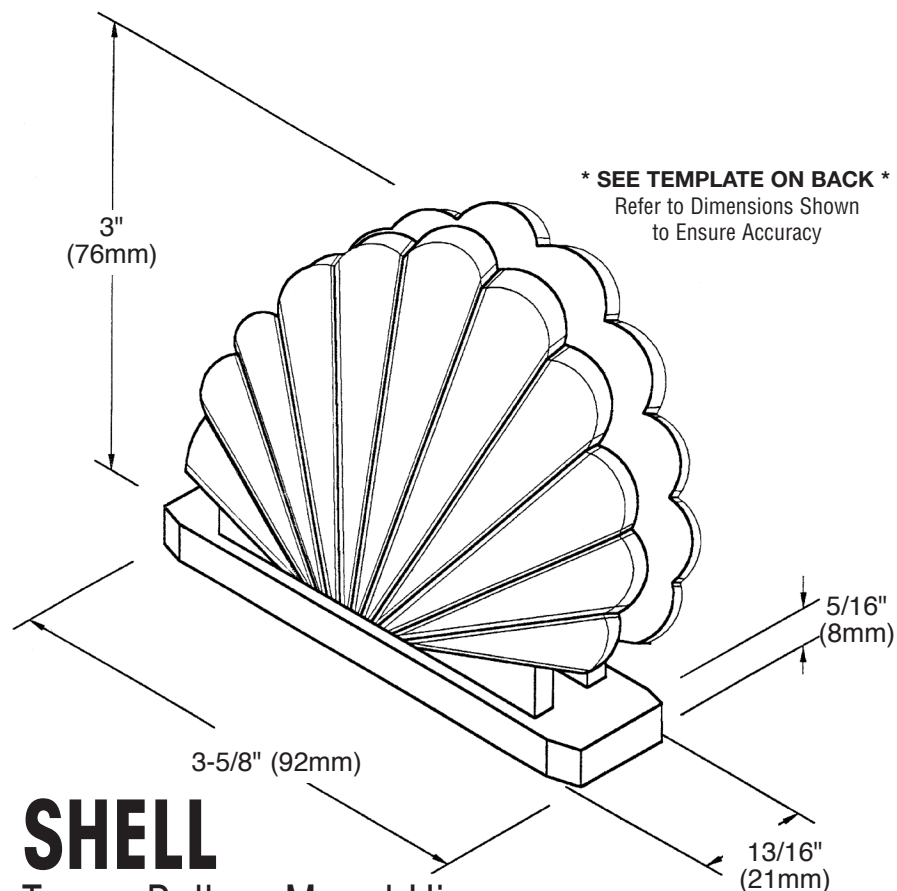
Alternate Method (Even with Top of Door)



C.R. Laurence Company has established a Technical Sales Department to assist our customers. If you have any questions concerning shower door hardware or any product from CRL, please contact us at:
(800) 421-6144 in the U.S.,
or (877) 421-6144 from Canada,
and ask for Extension 7740



C.R. LAURENCE CO., INC.
PROFESSIONAL QUALITY



SHELL

Top or Bottom Mount Hinge

Cat No. SHE001

Edge Mount Preferred Method	7/16" (11mm) Clearance	.....	Page 4J-2
Edge Mount Alternate Method	7/16" (11mm) Clearance	.....	Page 4J-3
Inset Mount Method	7/16" (11mm) Clearance	.....	Page 4J-4

*Maximum Door Capacities	5/16" (8mm) Glass		3/8" (10mm) Glass	
	Weight	Width	Weight	Width
Using 2 Hinges	100 lbs.(46 kg)	31"(787mm)	100 lbs.(46 kg)	31"(787mm)

*NOTE: Do not exceed either maximum weight or width when choosing proper quantity of hinges.

Important Information:

Template Options: The Top or Bottom Mount SHE001 Hinge offers numerous choices of templates. Refer to the lower left hand corner of this page for the various selections. If using an Edge Mount Template, the capabilities of your temperer may determine your choice of Preferred or Alternate Methods. The Preferred Method has a full leg cutout that allows a full length vertical seal on the hinge side. The Alternate Method has a short leg cutout, resulting in an interrupted seal.

The Inset Mount Template is beneficial for two reasons. It allows a full length vertical seal. Also, by inseting the hinge a certain distance towards the center of the door, it enables the door to avoid hitting a towel bar, or some other protrusion from the wall.

Vertical Clearances: If using the Top or Bottom Mount SHE001 Hinges with the CRL Deluxe Header Kit, DISREGARD the suggested top clearance instructions shown on these templates. For vertical deductions using the Header Kit, refer to page 2-22 in Section 2.

Optional Pivot Pins: Optional 5° Pivot Pins (Cat. No. P1VP1N) are sold as a set, one pin for the top hinge and one pin for the bottom hinge. These 5° offset Pivot Pins allow the installer to adjust the closing position of the door 5° inwards or outwards.

Specifications:

Glass Sizes: 5/16" (8mm) to 3/8" (10mm) thick tempered safety glass

Construction: Solid brass

Closing Type: Self-centering when within 15° of closed position

Cutout Required

Includes: Gaskets, screws and template

Use of Gaskets:

For 5/16"(8mm) Glass: Use one thick and one thin gasket on each side

For 3/8"(10mm) Glass: Use one thick gasket on each side

Recommendations:

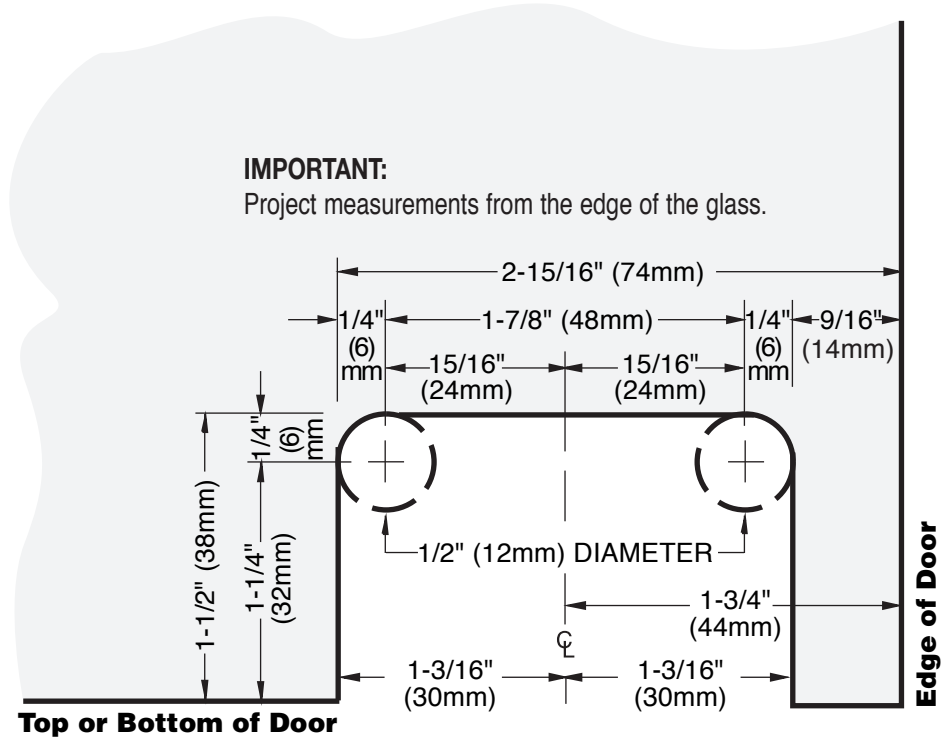
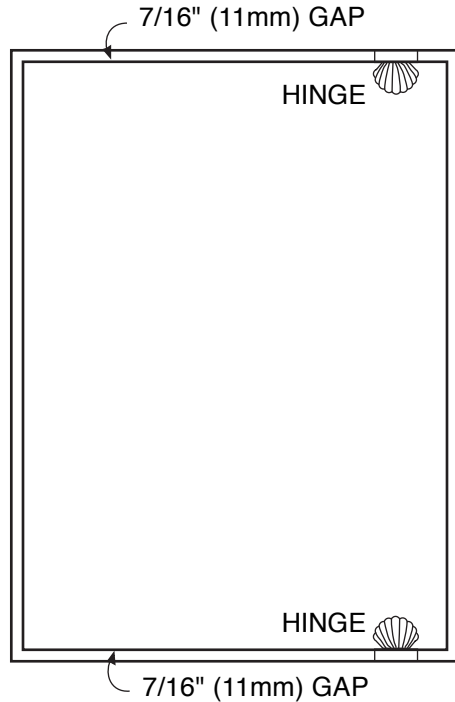
For public safety, we recommend the use of only tempered safety glass. Do not use power tools when installing these hinges.

Maintenance Guidelines:

- Never use an abrasive cleaner on the hardware. Many of the components are coated with a clear lacquer that will be irreparably damaged if subjected to harsh, abrasive chemicals. Advise your customer that drying the hardware with a clean, soft towel on a daily basis is the best way to maintain the hardware. If mineral deposits build-up, mix a couple of drops of a mild liquid soap (such as Ivory or a similar product) into a cup of warm water. Using a soft, non-abrasive cloth, clean the hardware. Rinse thoroughly with clean, warm water and dry.



NOTE: Disregard vertical clearance shown if using CRL Deluxe Header Kit.
 See page 2-22 for vertical deductions.

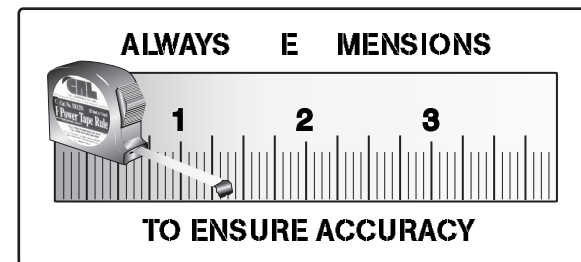


SHELL

Top or Bottom Mount Hinge

CAT No. SHE001

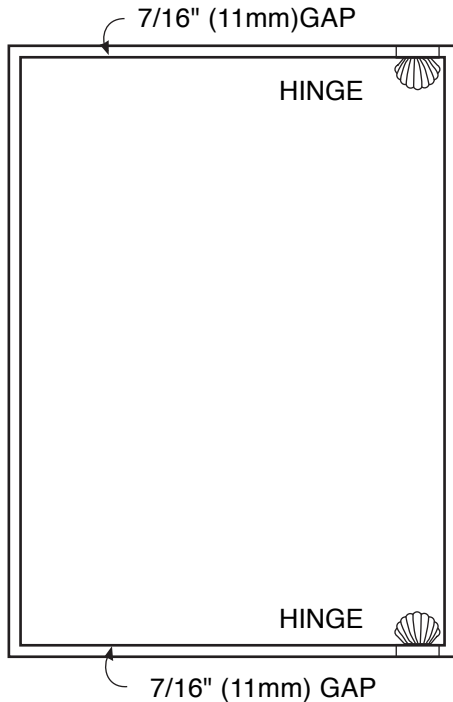
Edge Mount Preferred Method (7/16" (11mm) Clearance)





C.R. LAURENCE CO., INC.
PROFESSIONAL QUALITY

NOTE: Disregard vertical clearance shown if using CRL Deluxe Header Kit.
 See page 2-22 for vertical deductions.



SHELL

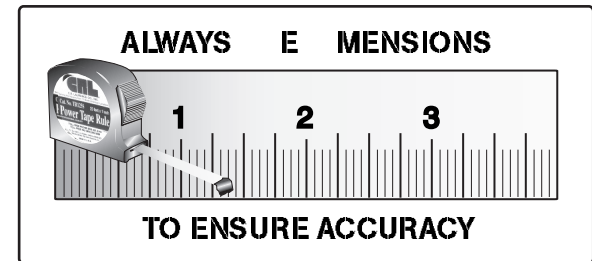
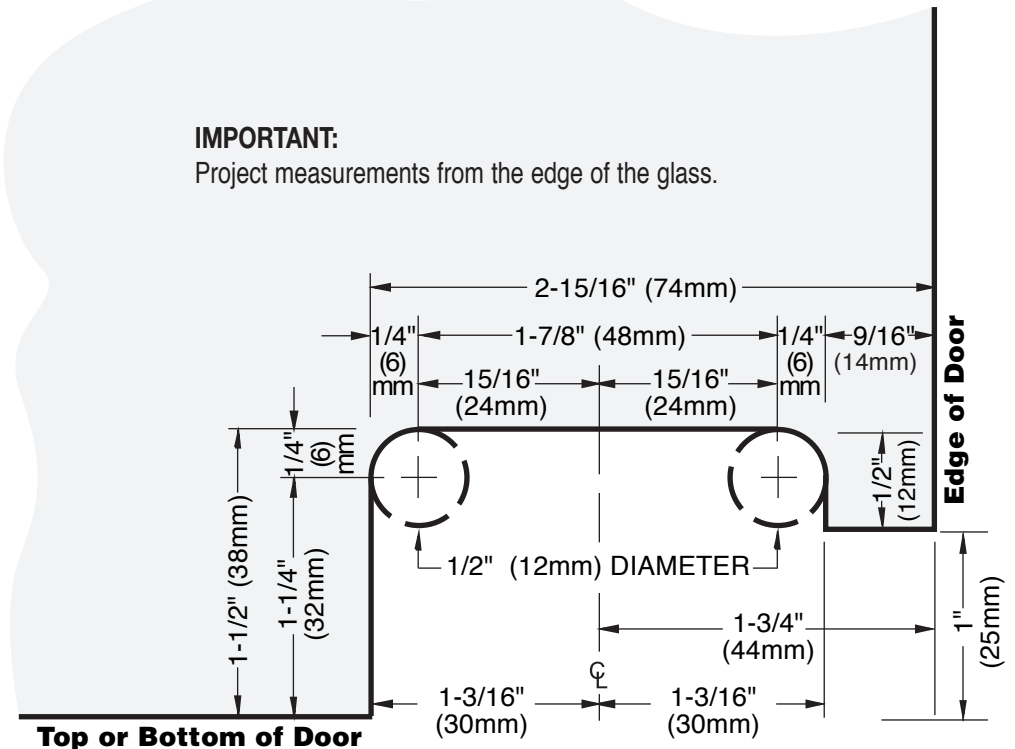
Top or Bottom Mount Hinge

CAT No. SHE001

Edge Mount Alternate Method 7/16" (11mm) Clearance

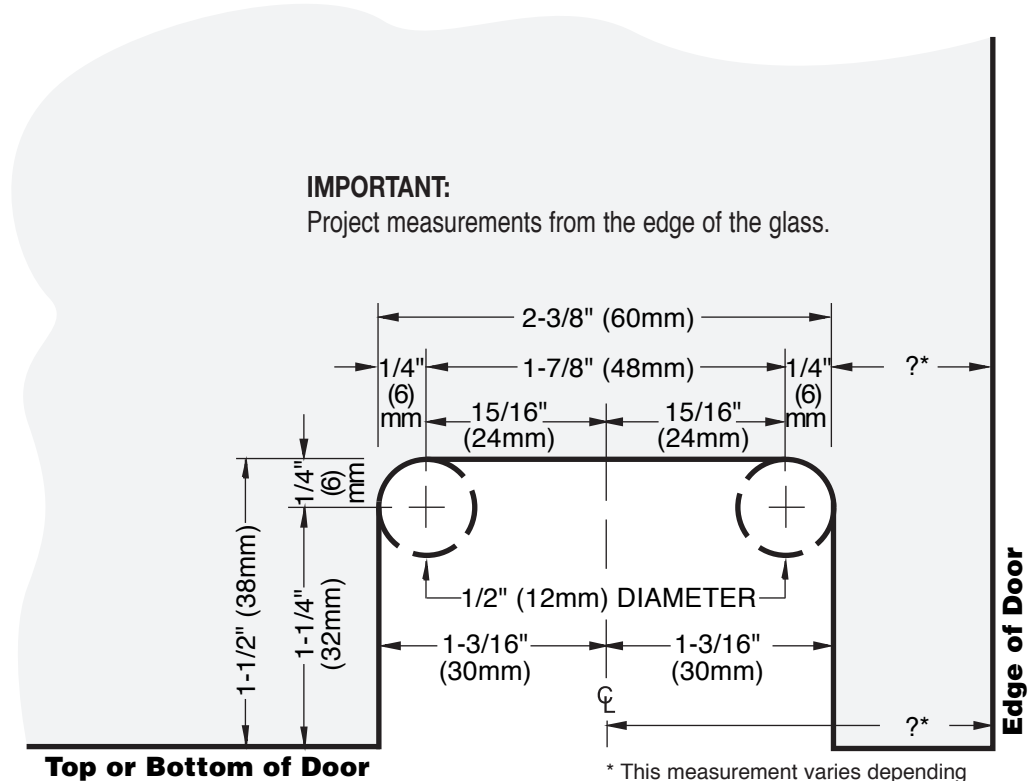
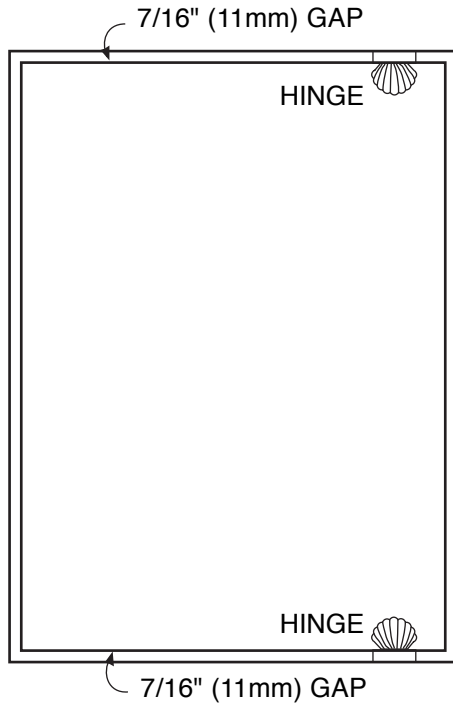
IMPORTANT:

Project measurements from the edge of the glass.





NOTE: Disregard vertical clearance shown if using CRL Deluxe Header Kit.
 See page 2-22 for vertical deductions.



IMPORTANT:

Project measurements from the edge of the glass.

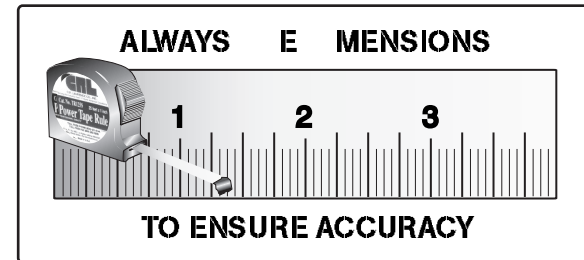
* This measurement varies depending on the amount of inset you desire.

SHELL

Top or Bottom Mount Hinge

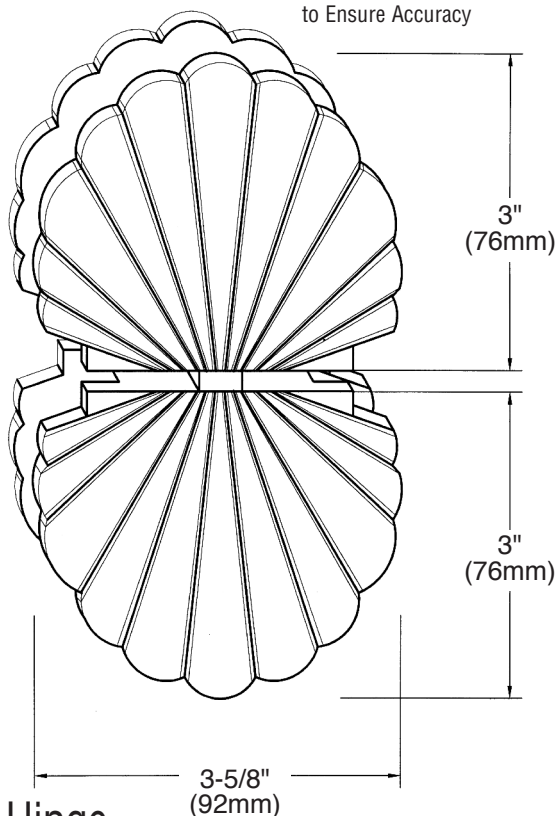
Cat No. SHE001

Inset Mount Method 7/16" (11mm) Clearance





*** SEE TEMPLATE ON BACK ***
 Refer to Dimensions Shown
 to Ensure Accuracy



SHELL

Glass-to-Glass Hinge

Cat No. SHE002

Edge Mount Preferred Method	1/8" (3mm) to 3/16" (5mm) Clearance	Page 4J-6
Edge Mount Alternate Method	1/8" (3mm) to 3/16" (5mm) Clearance	Page 4J-7
Inset Mount Method	1/8" (3mm) to 3/16" (5mm) Clearance	Page 4J-8

*Maximum Door Capacities	5/16" (8mm) Glass		3/8" (10mm) Glass	
	Weight	Width	Weight	Width
Using 2 Hinges	100 lbs.(46 kg)	31"(787mm)	100 lbs.(46 kg)	31"(787mm)

***NOTE:** Do not exceed either maximum weight or width when choosing proper quantity of hinges.

Important Information:

Template Options: The Glass-to-Glass Mount SHE002 Hinge offers numerous choices of templates. Refer to the lower left hand corner of this page for the various selections. If using an Edge Mount Template, the capabilities of your temperer may determine your choice of Preferred or Alternate Methods. The Preferred Method has a full leg cutout that allows a full length vertical seal on the hinge side. The Alternate Method has a short leg cutout, resulting in an interrupted seal.

The Inset Mount Template is beneficial for two reasons. It allows a full length vertical seal. Also, by inseting the hinge a certain distance towards the center of the door, it enables the door to avoid hitting a towel bar, or some other protrusion from the wall.

Optional Pivot Pins: Optional 5° Pivot Pins (Cat. No. P1VP1N) are sold as a set, one pin for the top hinge and one pin for the bottom hinge. These 5° offset Pivot Pins allow the installer to adjust the closing position of the door 5° inwards or outwards.

Specifications:

Glass Sizes: 5/16" (8mm) to 3/8" (10mm) thick tempered safety glass

Construction: Solid brass

Closing Type: Self-centering when within 15° of closed position

Cutout Required

Includes: Gaskets, screws and template

Use of Gaskets:

For 5/16"(8mm) Glass: Use one thick gasket and one thin gasket on each side

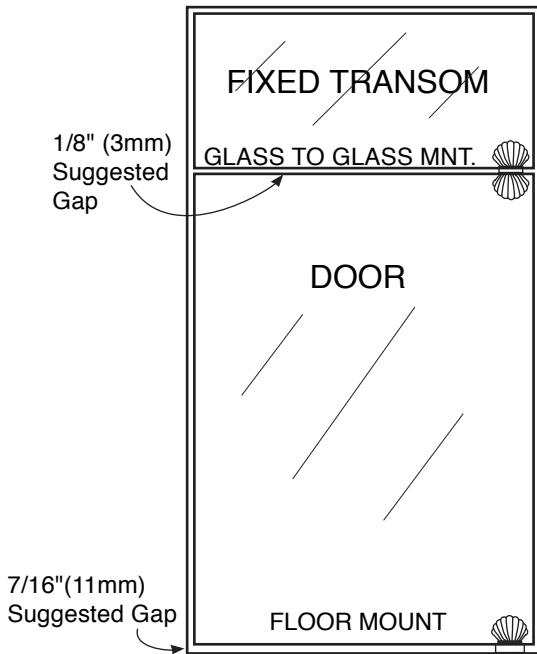
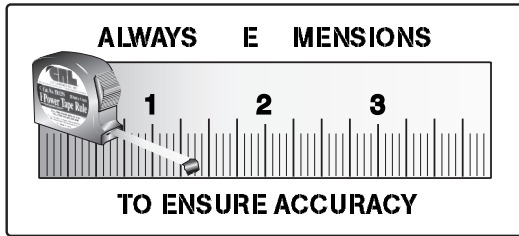
For 3/8"(10mm) Glass: Use one thick gasket on each side

Recommendations:

For public safety, we recommend the use of only tempered safety glass. Do not use power tools when installing these hinges.

Maintenance Guidelines:

- Never use an abrasive cleaner on the hardware. Many of the components are coated with a clear lacquer that will be irreparably damaged if subjected to harsh, abrasive chemicals. Advise your customer that drying the hardware with a clean, soft towel on a daily basis is the best way to maintain the hardware. If mineral deposits build-up, mix a couple of drops of a mild liquid soap (such as Ivory or a similar product) into a cup of warm water. Using a soft, non-abrasive cloth, clean the hardware. Rinse thoroughly with clean, warm water and dry.



SHELL

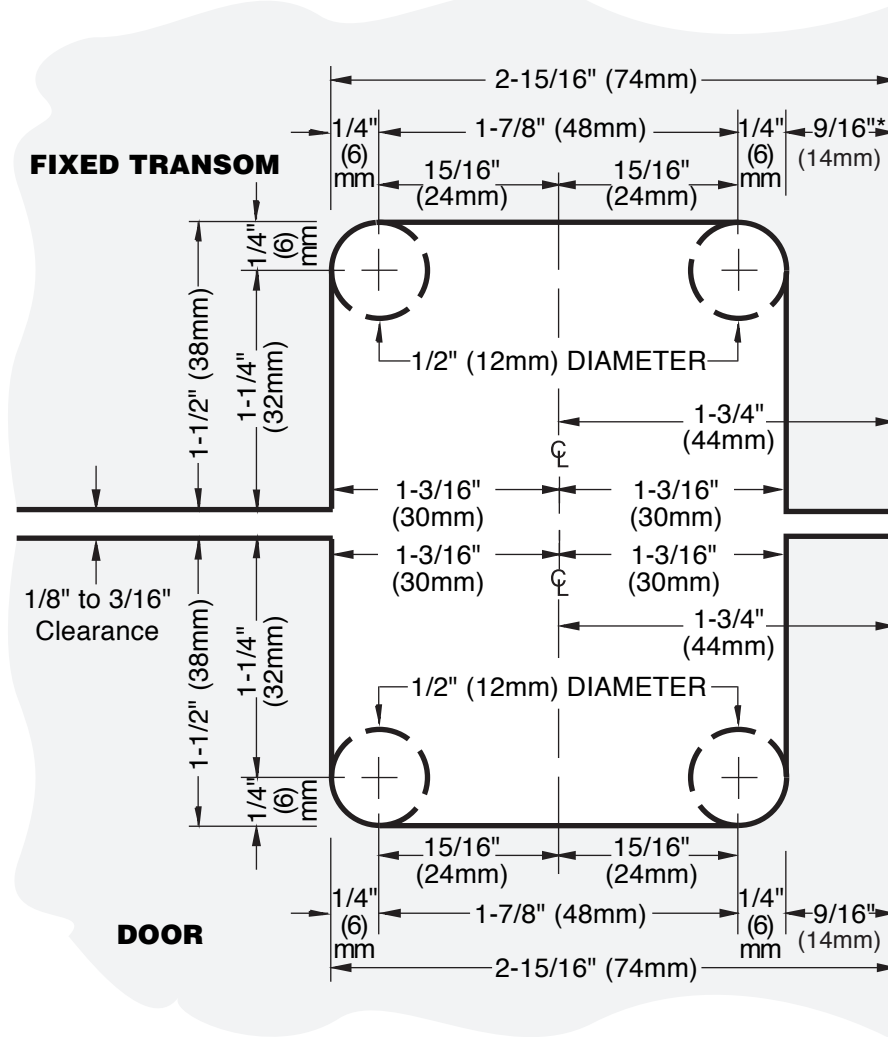
Glass-to-Glass Hinge

CAT No. SHE002

Edge Mount Preferred Method (1/8" (3mm) to 3/16" (5mm) Clearance)

IMPORTANT:

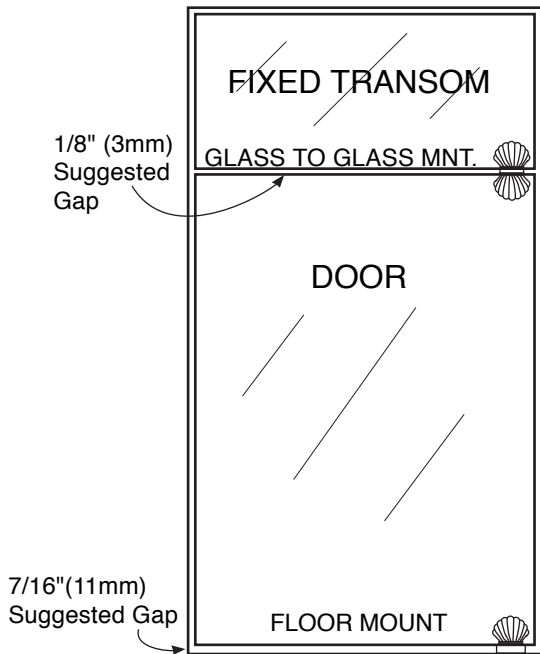
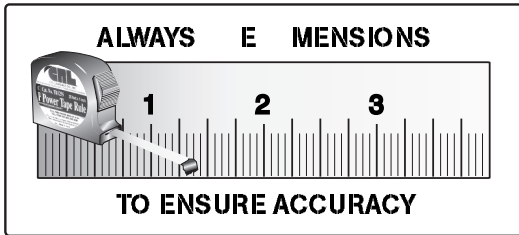
Project measurements from the edge of the glass.



* The 9/16" (14mm) measurement is ok as long as the fixed panel side clearance is the same as the door side clearance. If not, make the appropriate add-on or deduction.



C.R. LAURENCE CO., INC.
PROFESSIONAL QUALITY



SHELL

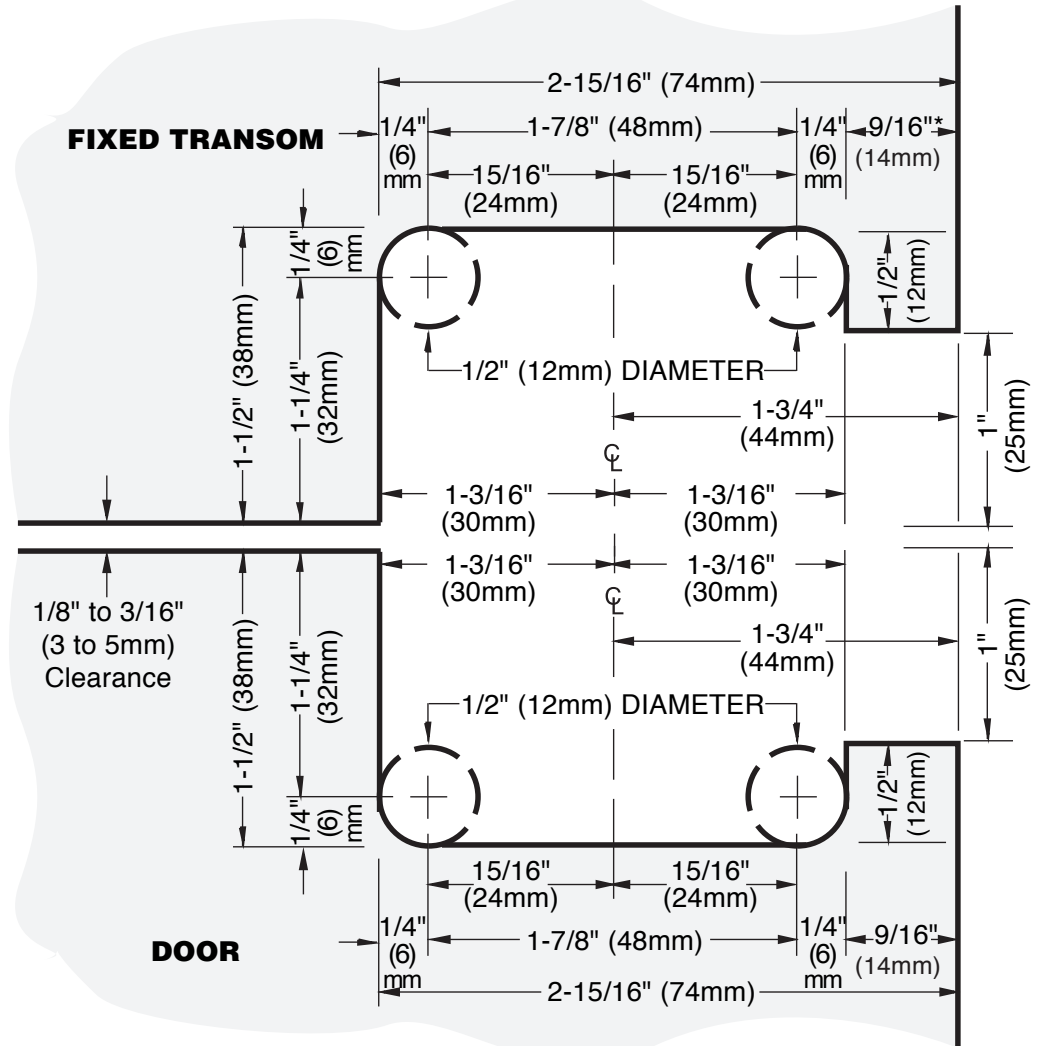
Glass-to-Glass Hinge

CAT No. SHE002

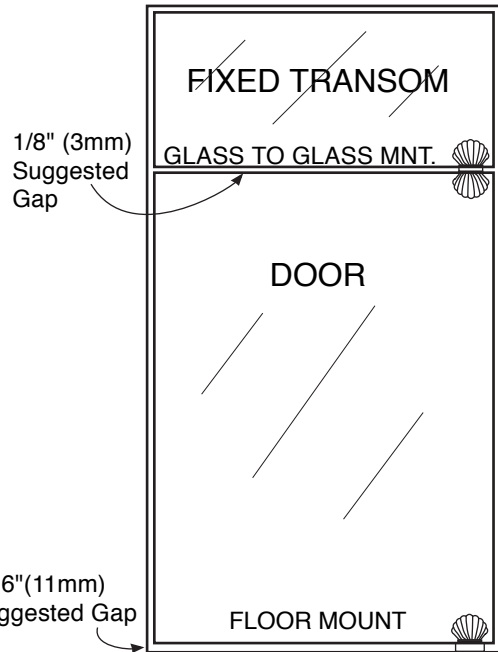
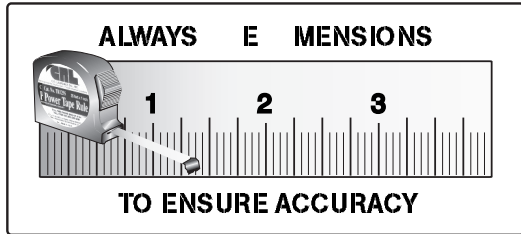
Edge Mount Alternate Method (1/8" (3mm) to 3/16" (5mm) Clearance)

IMPORTANT:

Project measurements from the edge of the glass.



* The 9/16" (14mm) measurement is ok as long as the fixed panel side clearance is the same as the door side clearance. If not, make the appropriate add-on or deduction.



SHELL

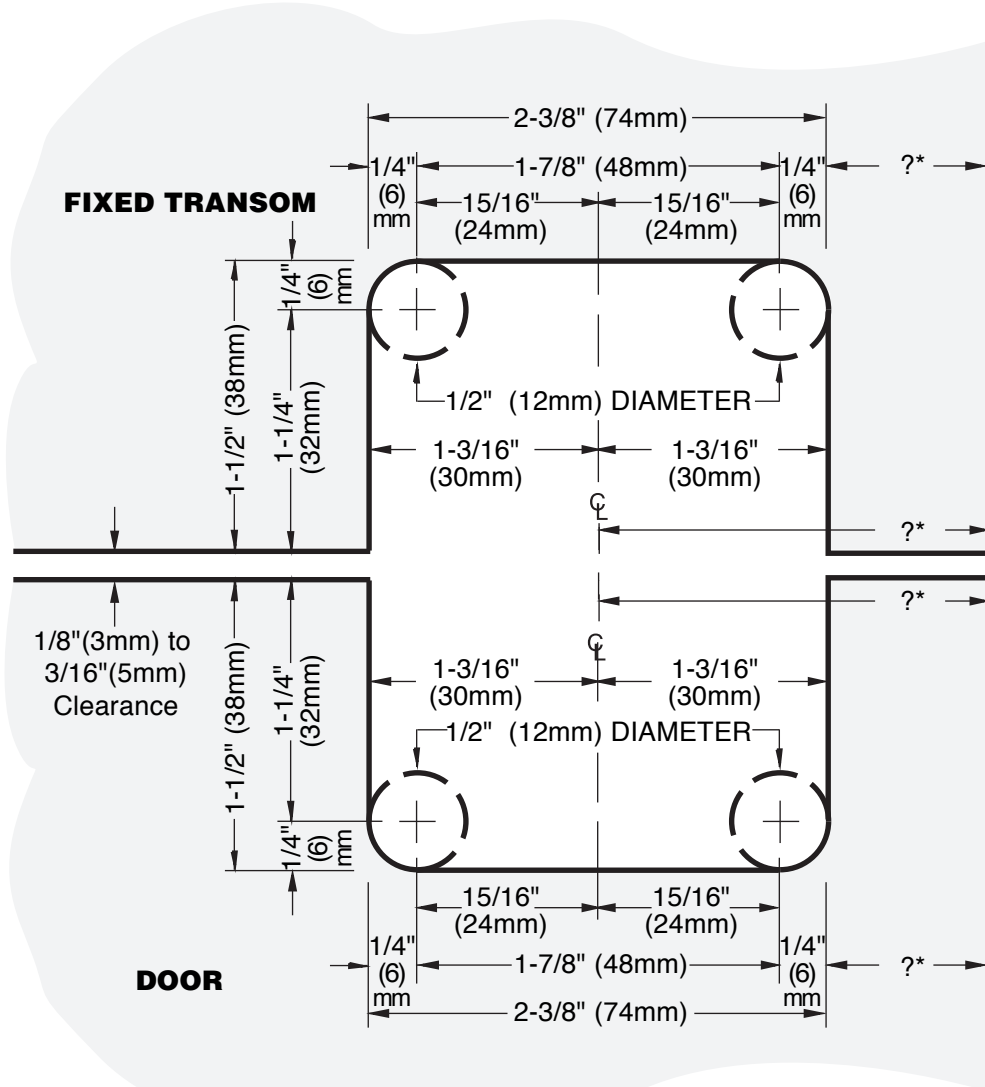
Glass-to-Glass Hinge

CAT No. SHE002

Inset Mount Method (1/8" (3mm) to 3/16" (5mm) Clearance)

IMPORTANT:

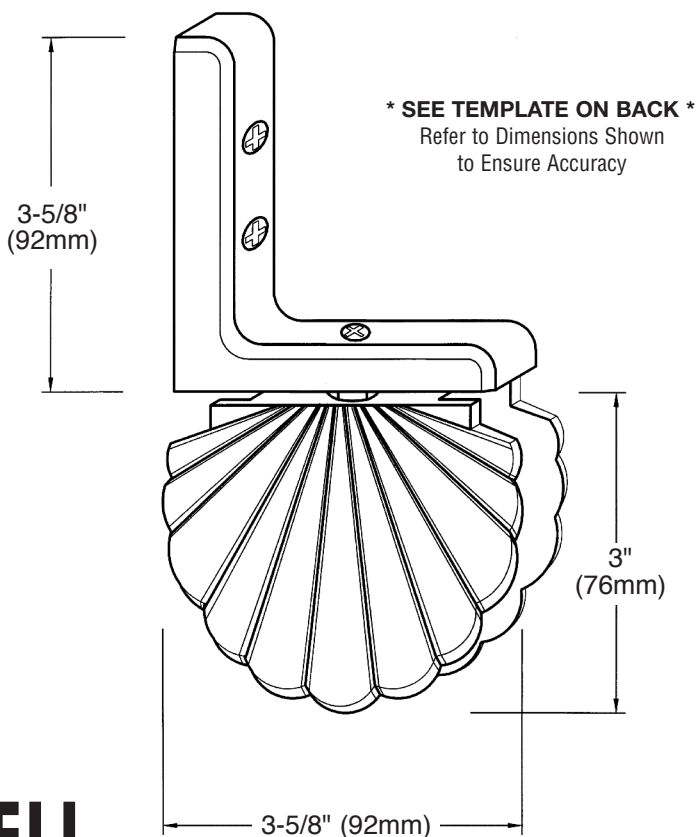
Project measurements from the edge of the glass.



*This measurement varies depending on the amount of inset you desire.



C.R. LAURENCE CO., INC.
PROFESSIONAL QUALITY



SHELL

Wall Mount Hinge

Cat No. SHE003

Edge Mount Preferred Method (Even with Top of Door)Page 4J-10
 Edge Mount Alternate Method (Even with Top of Door)Page 4J-11

*Maximum Door Capacities	5/16" (8mm) Glass		3/8" (10mm) Glass	
	Weight	Width	Weight	Width
Using 2 Hinges	100 lbs.(46 kg)	31"(787mm)	100 lbs.(46 kg)	31"(787mm)

*NOTE: Do not exceed either maximum weight or width when choosing proper quantity of hinges.

Important Information:

Template Options: The Shell Wall Mount SHE003 Hinge offers two template options, depending upon the capabilities of the temperer (see lower left of this page). The Preferred Method allows a full vertical seal along the hinge side, the Alternate Method leaves a short leg of glass, thus not allowing a full length vertical seal.

Optional Pivot Pins: Optional 5° Pivot Pins (Cat. No. P1VP1N) are sold as a set, one pin for the top hinge and one pin for the bottom hinge. These 5° offset Pivot Pins allow the installer to adjust the closing position of the door 5° inwards or outwards.

Specifications:

Glass Sizes: 5/16" (8mm) to 3/8" (10mm) thick tempered safety glass

Construction: Solid brass

Closing Type: Self-centering when within 15° of closed position

Cutout Required

Includes: Gaskets, screws and template

Use of Gaskets:

For 5/16"(8mm) Glass: Use one thick gasket and one thin gasket on each side

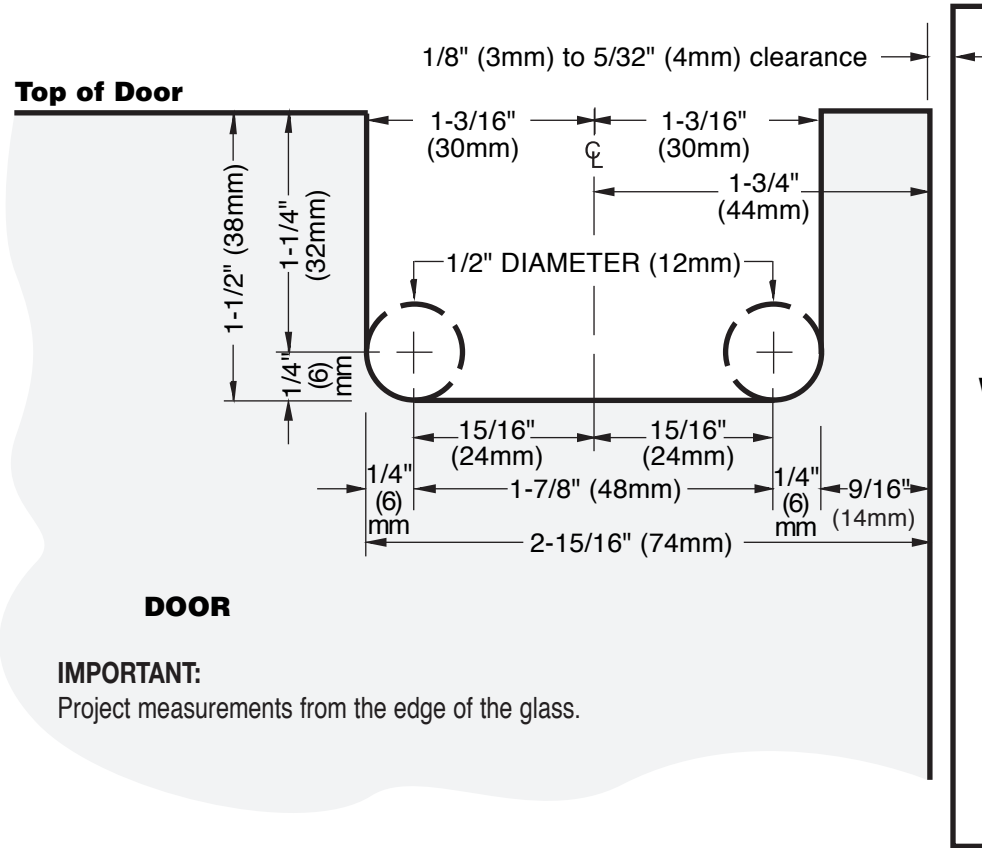
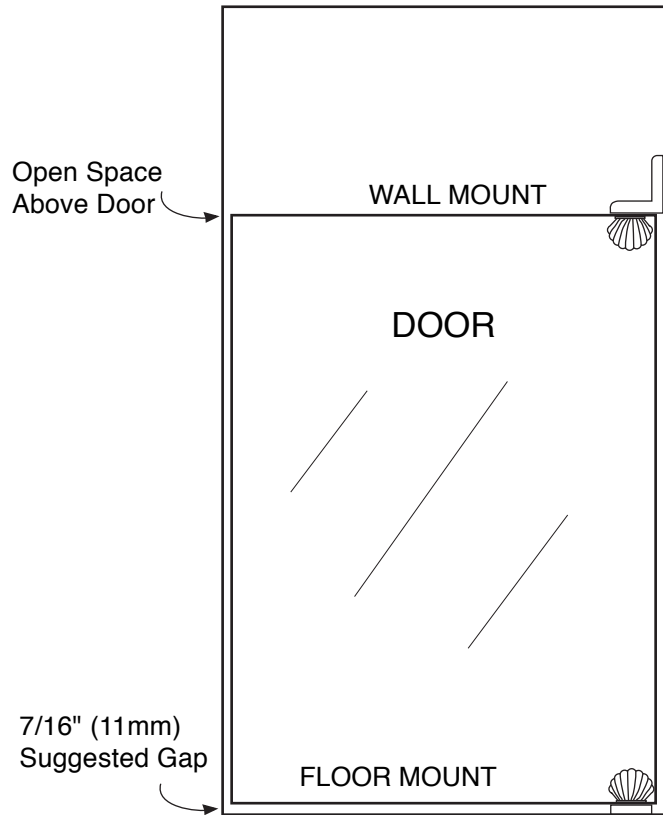
For 3/8"(10mm) Glass: Use one thick gasket on each side

Recommendations:

For public safety, we recommend the use of only tempered safety glass.
 Do not use power tools when installing these hinges.

Maintenance Guidelines:

- Never use an abrasive cleaner on the hardware. Many of the components are coated with a clear lacquer that will be irreparably damaged if subjected to harsh, abrasive chemicals. Advise your customer that drying the hardware with a clean, soft towel on a daily basis is the best way to maintain the hardware. If mineral deposits build-up, mix a couple of drops of a mild liquid soap (such as Ivory or a similar product) into a cup of warm water. Using a soft, non-abrasive cloth, clean the hardware. Rinse thoroughly with clean, warm water and dry.

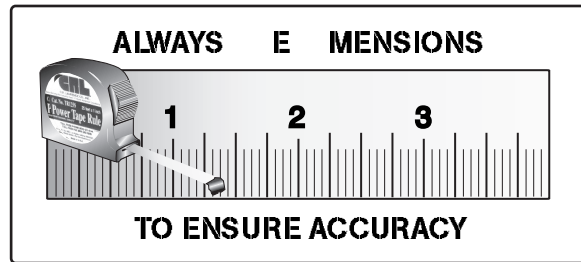


SHELL

Wall Mount Hinge

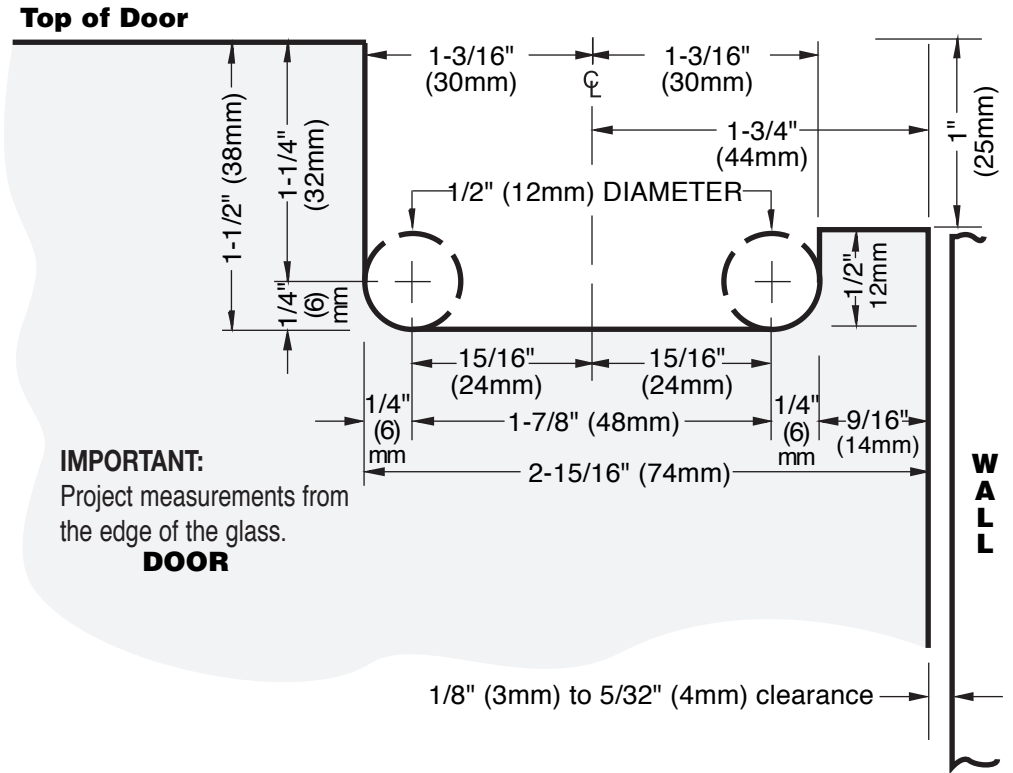
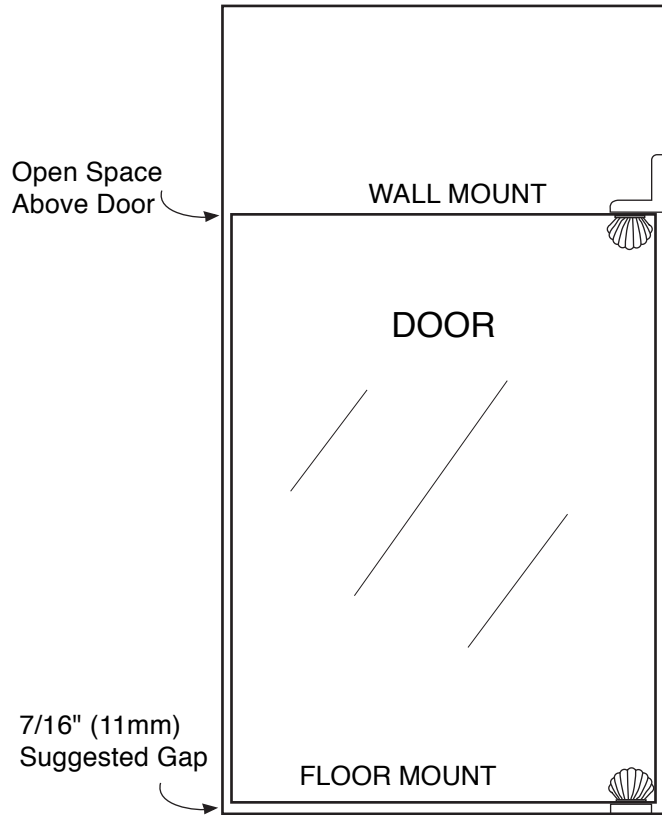
CAT No. SHE003

Wall Mount Preferred Method (Even with Top of Door)





C.R. LAURENCE CO., INC.
PROFESSIONAL QUALITY

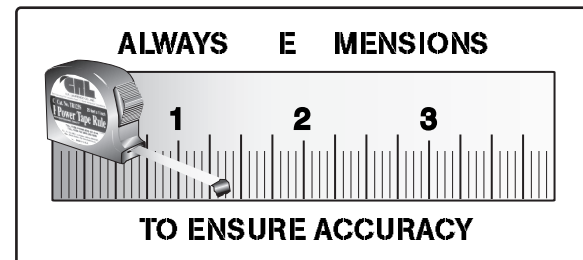


SHELL

Wall Mount Hinge

CAT No. SHE003

Wall Mount Alternate Method (Even with Top of Door)



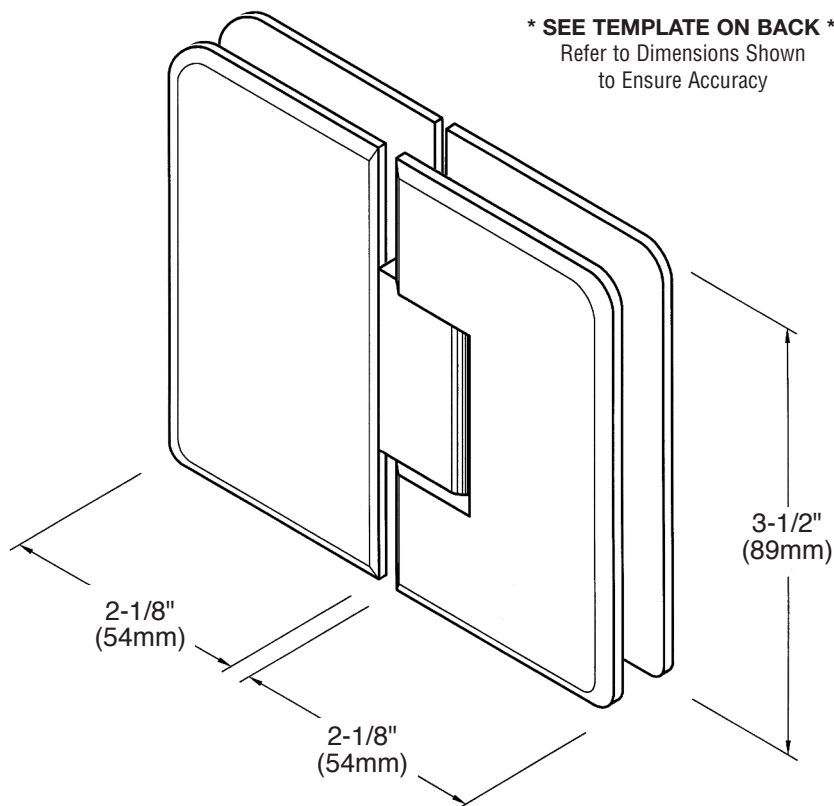


C.R. Laurence Company has established a Technical Sales Department to assist our customers. If you have any questions concerning shower door hardware or any product from CRL, please contact us at:
(800) 421-6144 in the U.S.,
or (877) 421-6144 from Canada,
and ask for Extension 7740



C.R. LAURENCE CO., INC.
PROFESSIONAL QUALITY

*** SEE TEMPLATE ON BACK ***
Refer to Dimensions Shown
to Ensure Accuracy



INTERNATIONAL

Beveled 180° Glass-to-Glass Hinge

Cat No. BGM1

*Maximum Door Capacities	5/16" (8mm) and 3/8" (10mm) Glass		1/2" (12mm) Glass	
	Weight	Width	Weight	Width
Using 2 Hinges	80 lbs.(36 kg)	28"(711mm)	80 lbs.(36 kg)	28"(711mm)
Using 3 Hinges	120 lbs.(54 kg)	32"(813mm)	120 lbs.(54 kg)	32"(813mm)

***NOTE:** Do not exceed either maximum weight or width when choosing proper quantity of hinges.

Important Information:

Door and fixed panel use same cutout.

Specifications:

Glass Sizes: 5/16" (8mm), 3/8" (10mm) and 1/2" (12mm) thick tempered safety glass

Construction: Solid brass

Closing Type: Self-centering when within 10° of closed position

Cutout Required

Includes: Gaskets, screws and template

Use of Gaskets:

For 5/16"(8mm) Glass: Use one thick and one thin gasket on each side

For 3/8"(10mm) Glass: Use one thick gasket on each side

For 1/2"(12mm) Glass: Use one thin gasket on each side

Recommendations:

For public safety, we recommend the use of only tempered safety glass.

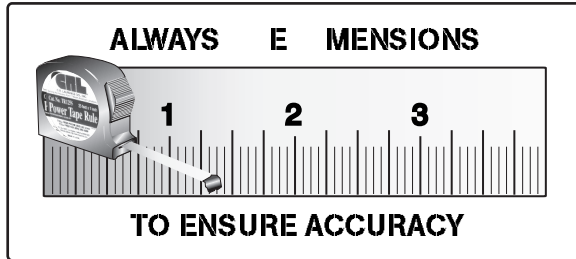
Do not use power tools when installing these hinges.

Maintenance Guidelines:

- Our hinges are greased at the factory for quiet and trouble-free operation. If there is any squeaking that occurs after installation, put a drop of "3 in 1 Oil" (also known as "household oil") on the white nylon washer that the hinge body pivots on. This washer is the component that acts as a buffer, so the body of the hinge doesn't pivot directly on the brass center block. This solution doesn't require the disassembly of the hinge.
Note: Do not use spray lubricant on these hinges. If the hinge has been disassembled, upon re-assembly, use white lithium grease to lubricate the interior mechanism.
- Never use an abrasive cleaner on the hardware. Many of the components are coated with a clear lacquer that will be irreparably damaged if subjected to harsh, abrasive chemicals. Advise your customer that drying the hardware with a clean, soft towel on a daily basis is the best way to maintain the hardware. If mineral deposits build-up, mix a couple of drops of a mild liquid soap (such as Ivory or a similar product) into a cup of warm water. Using a soft, non-abrasive cloth, clean the hardware. Rinse thoroughly with clean, warm water and dry.



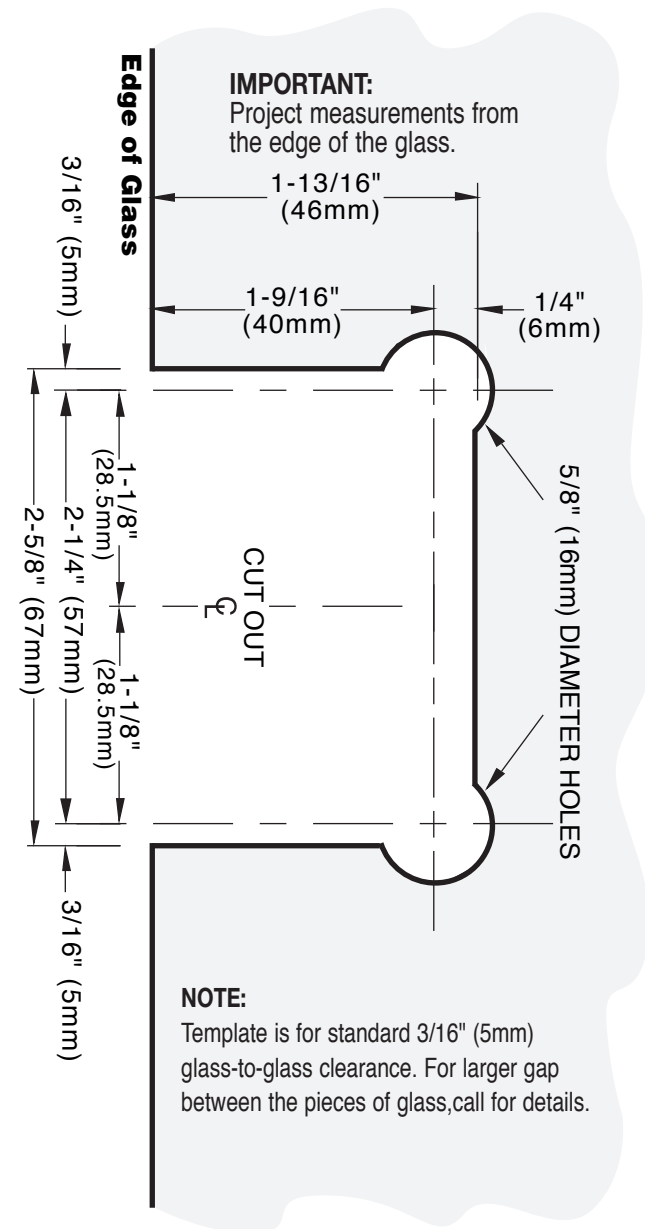
C.R. LAURENCE CO., INC.
PROFESSIONAL QUALITY



INTERNATIONAL

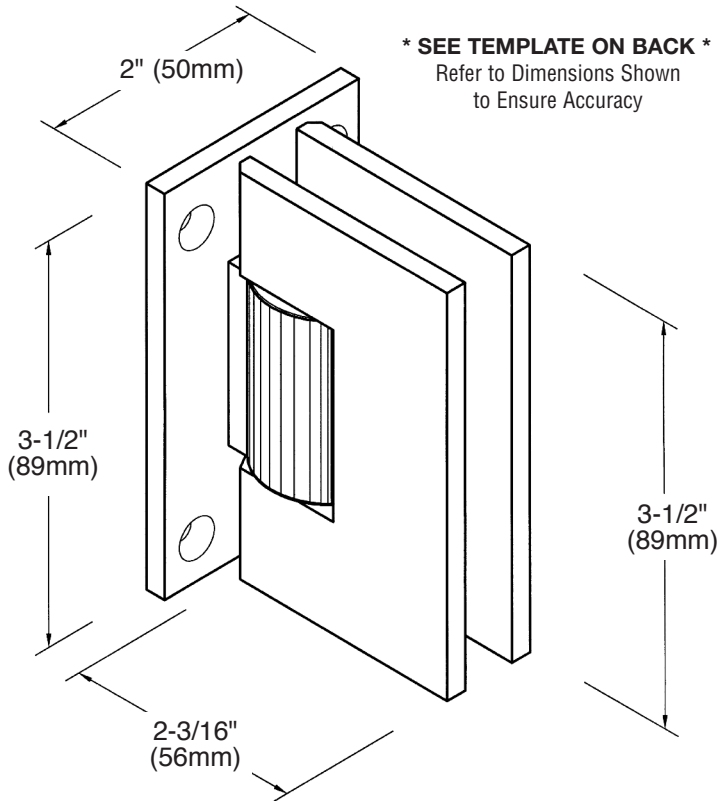
Beveled 180° Glass-to-Glass Hinge

CAT No. BGM1





C.R. LAURENCE CO., INC.
PROFESSIONAL QUALITY



Important Information:

The Geneva Texas Series contains a self-closing, spring loaded mechanism that will return the door to zero degrees from any position.

Specifications:

Glass Sizes: 3/8" (10mm) to 1/2" (12mm) thick tempered safety glass

Construction: Solid brass

Closing Type: Self-closing from any position

Cutout Required

Includes: Gaskets, screws and template

Use of Gaskets:

For 3/8"(10mm) Glass: Use one thick gasket on each side

For 1/2"(12mm) Glass: Use one thin gasket on each side

Recommendations:

For public safety, we recommend the use of only tempered safety glass.

Do not use power tools when installing these hinges.

Maintenance Guidelines:

- Our hinges are greased at the factory for quiet and trouble-free operation. If there is any squeaking that occurs after installation, put a drop of "3 in 1 Oil" (also known as "household oil") on the white nylon washer that the hinge body pivots on. This washer is the component that acts as a buffer, so the body of the hinge doesn't pivot directly on the brass center block. This solution doesn't require the disassembly of the hinge.

Note: Do not use spray lubricant on these hinges.

- Never use an abrasive cleaner on the hardware. Many of the components are coated with a clear lacquer that will be irreparably damaged if subjected to harsh, abrasive chemicals. Advise your customer that drying the hardware with a clean, soft towel on a daily basis is the best way to maintain the hardware. If mineral deposits build-up, mix a couple of drops of a mild liquid soap (such as Ivory or a similar product) into a cup of warm water. Using a soft, non-abrasive cloth, clean the hardware. Rinse thoroughly with clean warm water and dry.

GENEVA TEXAS

Wall Mount Hinge

CAT No. GSC337

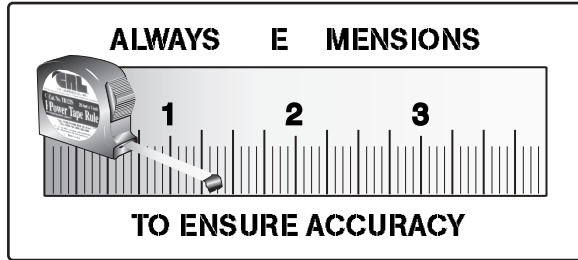
*Maximum Door Capacities	3/8" (10mm) Glass		1/2" (12mm) Glass	
	Weight	Width	Weight	Width
Using 2 Hinges	80 lbs.(36 kg)	28"(711mm)	80 lbs.(36 kg)	28"(711mm)
Using 3 Hinges	120 lbs.(55 kg)	32"(813mm)	120 lbs.(55 kg)	32"(813 mm)

***NOTE:** Do not exceed either maximum weight or width when choosing proper quantity of hinges.

4K-1



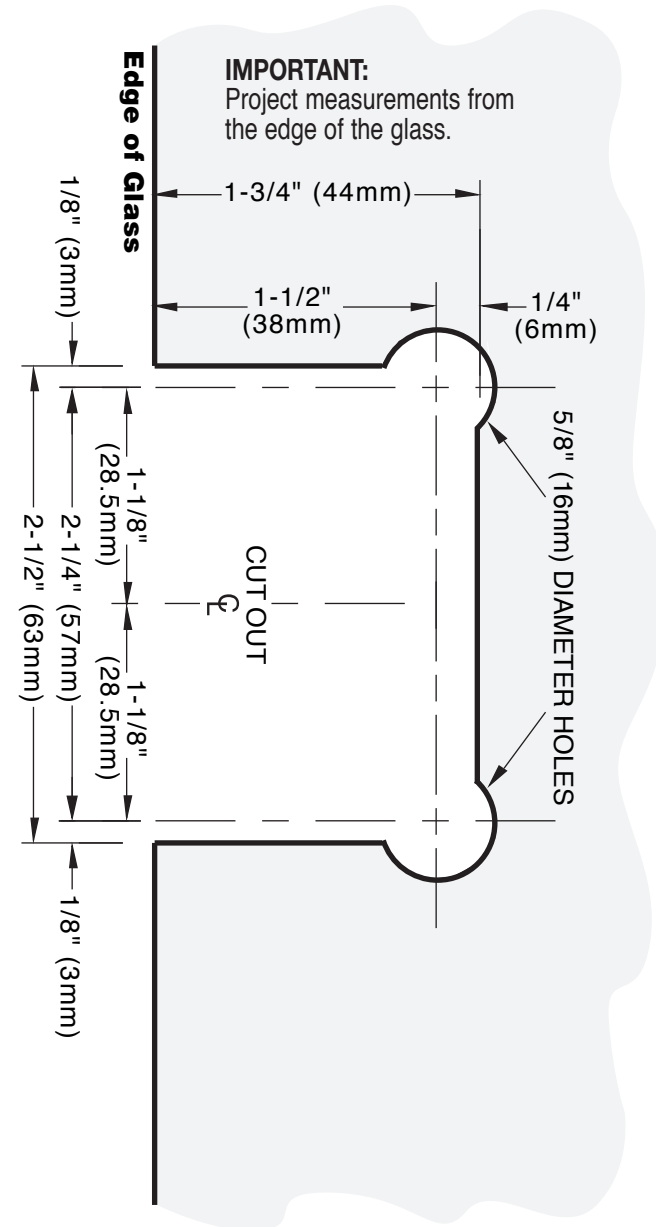
C.R. LAURENCE CO., INC.
PROFESSIONAL QUALITY



GENEVA TEXAS

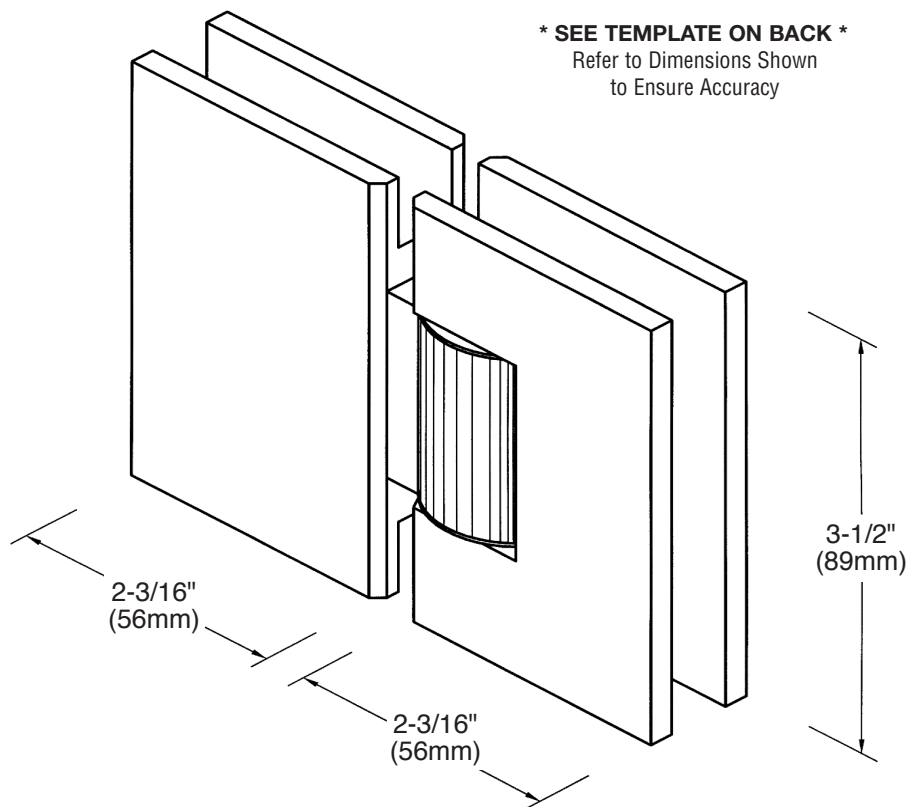
Wall Mount Hinge

CAT No. GSC337





C.R. LAURENCE CO., INC.
PROFESSIONAL QUALITY



GENEVA TEXAS

180° Glass-to-Glass Hinge

Cat No. GSC380

*Maximum Door Capacities	3/8" (10mm) Glass		1/2" (12mm) Glass	
	Weight	Width	Weight	Width
Using 2 Hinges	80 lbs.(36 kg)	28"(711mm)	80 lbs.(36 kg)	28"(711mm)
Using 3 Hinges	120 lbs.(55 kg)	32"(813mm)	120 lbs.(55 kg)	32"(813 mm)

*NOTE: Do not exceed either maximum weight or width when choosing proper quantity of hinges.

Important Information:

- 1) The Geneva Texas Series contains a self-closing, spring loaded mechanism that will return the door to zero degrees from any position.
- 2) Door and fixed panel use the same cutout.

Specifications:

Glass Sizes: 3/8" (10mm) to 1/2" (12mm) thick tempered safety glass

Construction: Solid brass

Closing Type: Self-closing from any position

Cutout Required

Includes: Gaskets, screws and template

Use of Gaskets:

For 3/8"(10mm) Glass: Use one thick gasket on each side

For 1/2"(12mm) Glass: Use one thin gasket on each side

Recommendations:

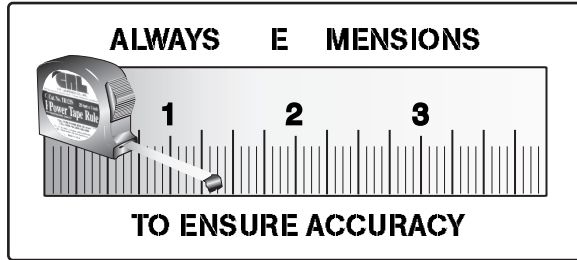
For public safety, we recommend the use of only tempered safety glass. Do not use power tools when installing these hinges.

Maintenance Guidelines:

- Our hinges are greased at the factory for quiet and trouble-free operation. If there is any squeaking that occurs after installation, put a drop of "3 in 1 Oil" (also known as "household oil") on the white nylon washer that the hinge body pivots on. This washer is the component that acts as a buffer, so the body of the hinge doesn't pivot directly on the brass center block. This solution doesn't require the disassembly of the hinge.
Note: Do not use spray lubricant on these hinges.
- Never use an abrasive cleaner on the hardware. Many of the components are coated with a clear lacquer that will be irreparably damaged if subjected to harsh, abrasive chemicals. Advise your customer that drying the hardware with a clean, soft towel on a daily basis is the best way to maintain the hardware. If mineral deposits build-up, mix a couple of drops of a mild liquid soap (such as Ivory or a similar product) into a cup of warm water. Using a soft, non-abrasive cloth, clean the hardware. Rinse thoroughly with clean warm water and dry.

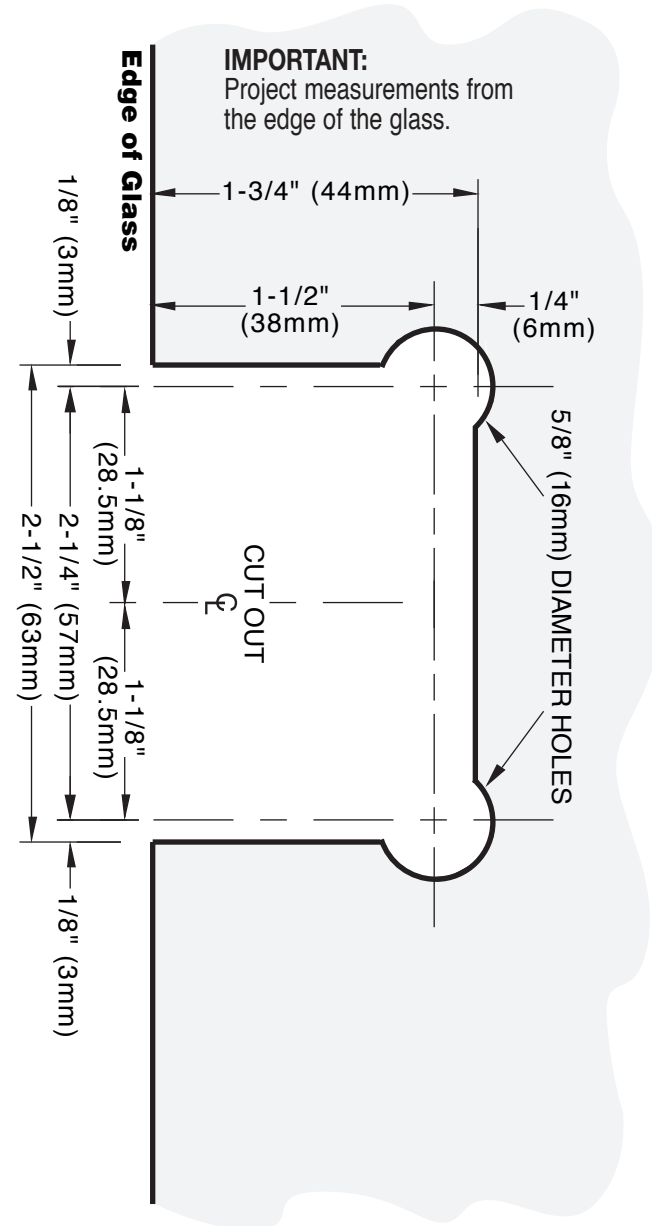


C.R. LAURENCE CO., INC.
 PROFESSIONAL QUALITY



GENEVA TEXAS

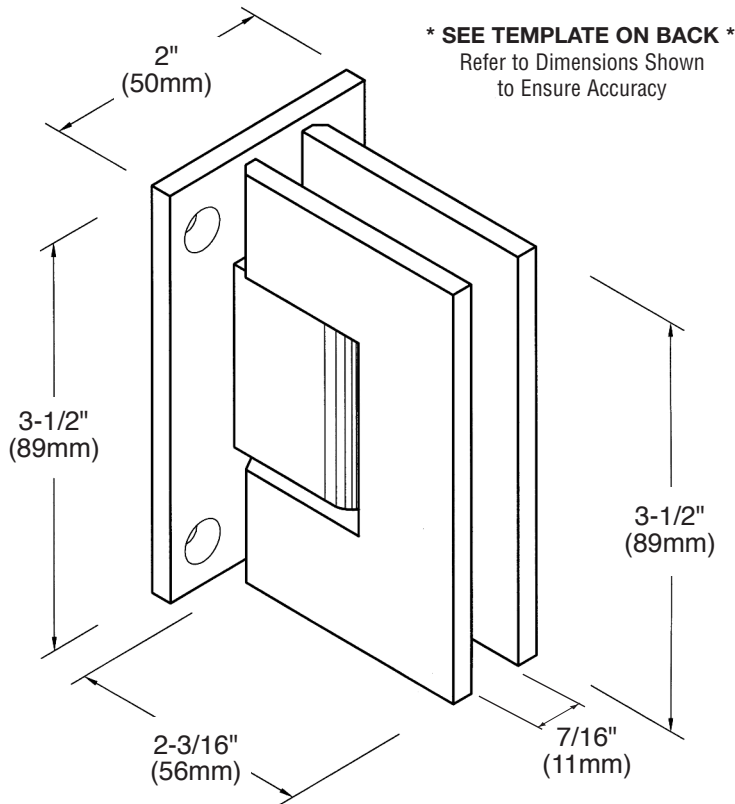
180° Glass-to-Glass Hinge
 CAT No. GSC380



C.R. Laurence Co., Inc. For technical assistance in the United States call toll free (800) 421-6144; from Canada call toll free (877) 421-6144;
 crlaurence.com Outside the U.S. and Canada call (323) 588-1281. Ask for Tech Sales at Extension 7740. Toll free fax (800) 458-7496.



C.R. LAURENCE CO., INC.
PROFESSIONAL QUALITY



Specifications:

Glass Sizes: 5/16" (8mm), 3/8" (10mm) and 1/2" (12mm) thick tempered safety glass

Construction: Solid brass

Closing Type: Self-centering when within 10° of closed position

Cutout Required

Includes: Gaskets, screws and template

Use of Gaskets:

For 5/16" (8mm) Glass: Use one thick and one thin gasket on each side

For 3/8" (10mm) Glass: Use one thick gasket on each side

For 1/2" (12mm) Glass: Use one thin gasket on each side

Recommendations:

For public safety, we recommend the use of only tempered safety glass. Do not use power tools when installing these hinges.

Maintenance Guidelines:

- Our hinges are greased at the factory for quiet and trouble-free operation. If there is any squeaking that occurs after installation, put a drop of "3 in 1 Oil" (also known as "household oil") on the white nylon washer that the hinge body pivots on. This washer is the component that acts as a buffer, so the body of the hinge doesn't pivot directly on the brass center block. This solution doesn't require the disassembly of the hinge. **Note: Do not use spray lubricant on these hinges.** If the hinge has been disassembled, upon re-assembly, use white lithium grease to lubricate the interior mechanism.
- Never use an abrasive cleaner on the hardware. Many of the components are coated with a clear lacquer that will be irreparably damaged if subjected to harsh, abrasive chemicals. Advise your customer that drying the hardware with a clean, soft towel on a daily basis is the best way to maintain the hardware. If mineral deposits build-up, mix a couple of drops of a mild liquid soap (such as Ivory or a similar product) into a cup of warm water. Using a soft, non-abrasive cloth, clean the hardware. Rinse thoroughly with clean, warm water and dry.

INTERNATIONAL

Square Wall Mount Hinge – Full Back Plate

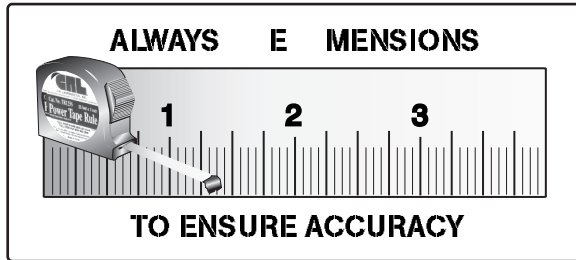
CAT No. SWM1

*Maximum Door Capacities	5/16" (8mm) and 3/8" (10mm) Glass		1/2" (12mm) Glass	
	Weight	Width	Weight	Width
Using 2 Hinges	80 lbs.(36 kg)	28"(711mm)	80 lbs.(36 kg)	28"(711mm)
Using 3 Hinges	120 lbs.(54 kg)	32"(813mm)	120 lbs.(54 kg)	32"(813mm)

*NOTE: Do not exceed either maximum weight or width when choosing proper quantity of hinges.



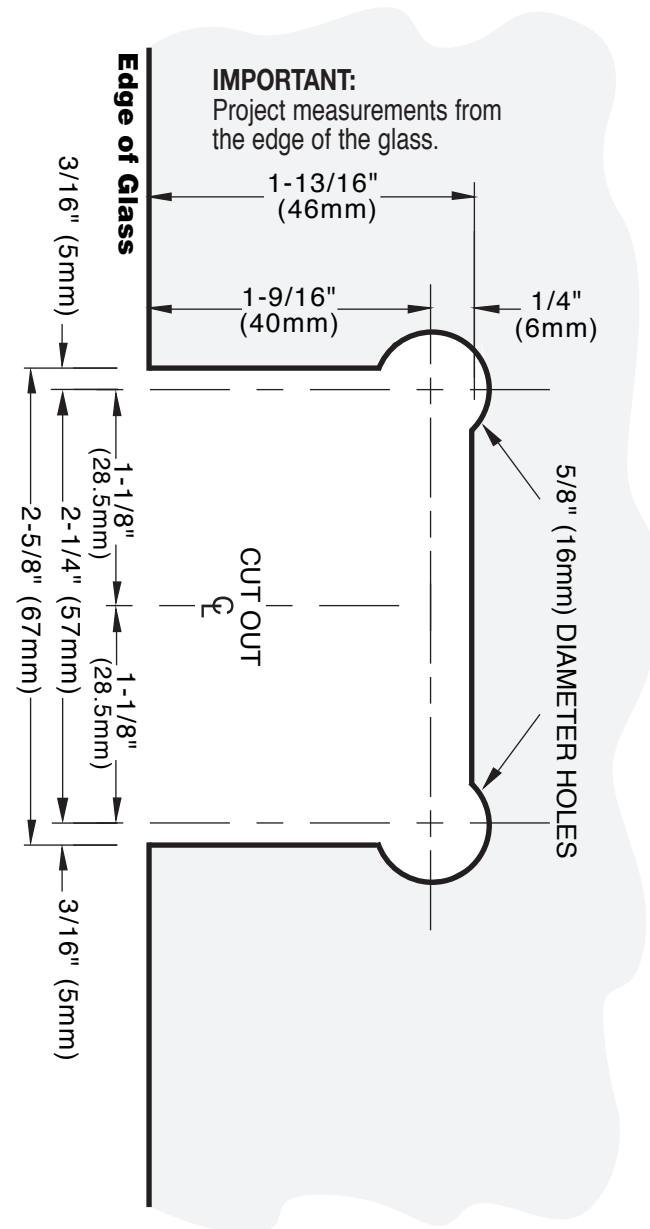
C.R. LAURENCE CO., INC.
PROFESSIONAL QUALITY



INTERNATIONAL

Square Wall Mount Hinge – Full Back Plate

CAT No. SWM1

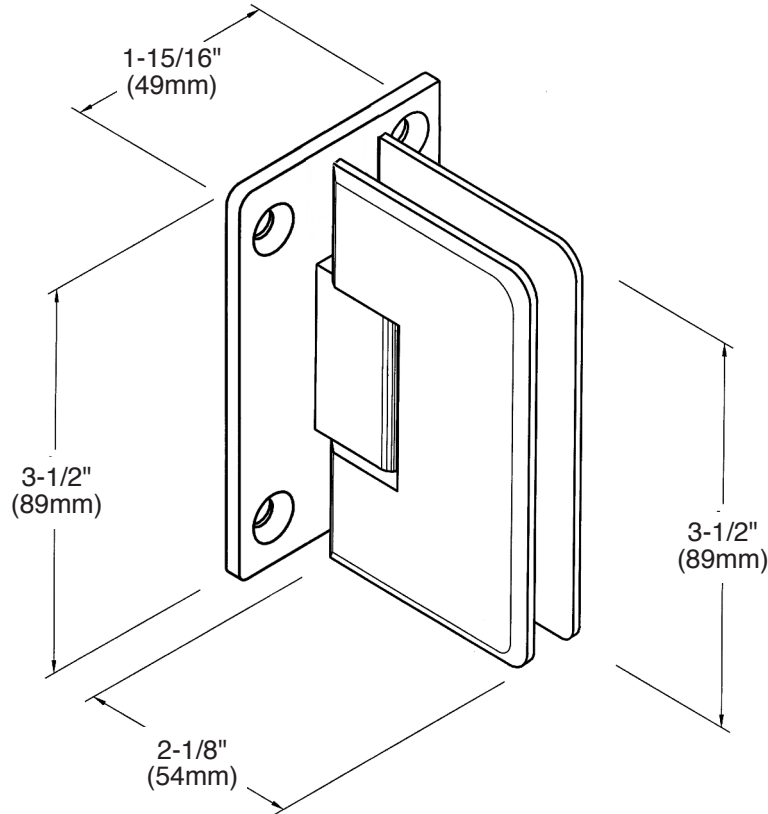


C.R. Laurence Co., Inc.
crlaurence.com

For technical assistance in the United States call toll free (800) 421-6144; from Canada call toll free (877) 421-6144; Outside the U.S. and Canada call (323) 588-1281. Ask for Tech Sales at Extension 7740. Toll free fax (800) 458-7496.



C.R. LAURENCE CO., INC.
PROFESSIONAL QUALITY



INTERNATIONAL

Beveled Wall Mount Hinge

CAT No. BWM1

*** SEE TEMPLATE ON BACK ***
Refer to Dimensions Shown
to Ensure Accuracy

*Maximum Door Capacities	5/16" (8mm) and 3/8" (10mm) Glass		1/2" (12mm) Glass	
	Weight	Width	Weight	Width
Using 2 Hinges	80 lbs.(36 kg)	28"(711mm)	80 lbs.(36 kg)	28"(711mm)
Using 3 Hinges	120 lbs.(54 kg)	32"(813mm)	120 lbs.(54 kg)	32"(813mm)

***NOTE:** Do not exceed either maximum weight or width when choosing proper quantity of hinges.

Specifications:

Glass Sizes: 5/16" (8mm), 3/8" (10mm) and 1/2" (12mm) thick tempered safety glass

Construction: Solid brass

Closing Type: Self-centering when within 10° of closed position

Cutout Required

Includes: Gaskets, screws and template

Use of Gaskets:

For 5/16"(8mm) Glass: Use one thick and one thin gasket on each side

For 3/8"(10mm) Glass: Use one thick gasket on each side

For 1/2"(12mm) Glass: Use one thin gasket on each side

Recommendations:

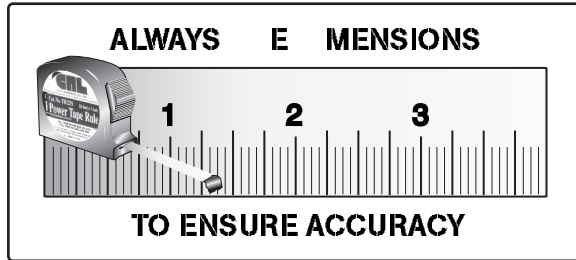
For public safety, we recommend the use of only tempered safety glass. Do not use power tools when installing these hinges.

Maintenance Guidelines:

- Our hinges are greased at the factory for quiet and trouble-free operation. If there is any squeaking that occurs after installation, put a drop of "3 in 1 Oil" (also known as "household oil") on the white nylon washer that the hinge body pivots on. This washer is the component that acts as a buffer, so the body of the hinge doesn't pivot directly on the brass center block. This solution doesn't require the disassembly of the hinge. **Note: Do not use spray lubricant on these hinges.** If the hinge has been disassembled, upon re-assembly, use white lithium grease to lubricate the interior mechanism.
- Never use an abrasive cleaner on the hardware. Many of the components are coated with a clear lacquer that will be irreparably damaged if subjected to harsh, abrasive chemicals. Advise your customer that drying the hardware with a clean, soft towel on a daily basis is the best way to maintain the hardware. If mineral deposits build-up, mix a couple of drops of a mild liquid soap (such as Ivory or a similar product) into a cup of warm water. Using a soft, non-abrasive cloth, clean the hardware. Rinse thoroughly with clean, warm water and dry.



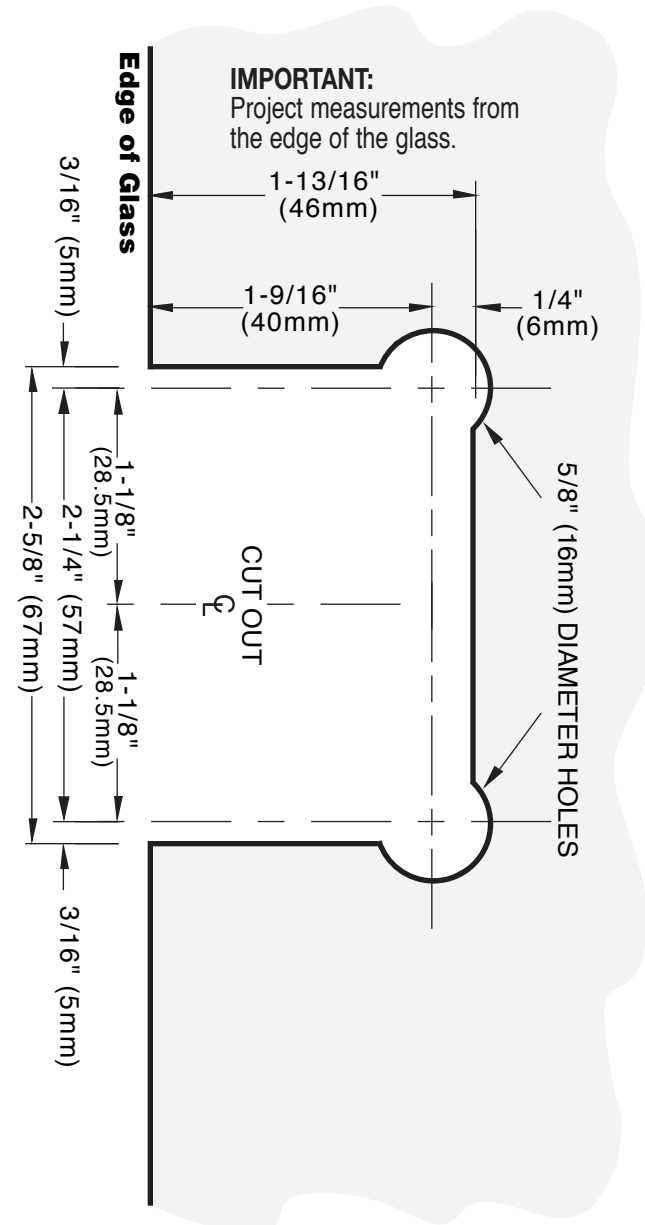
C.R. LAURENCE CO., INC.
PROFESSIONAL QUALITY



INTERNATIONAL

Beveled Wall Mount Hinge

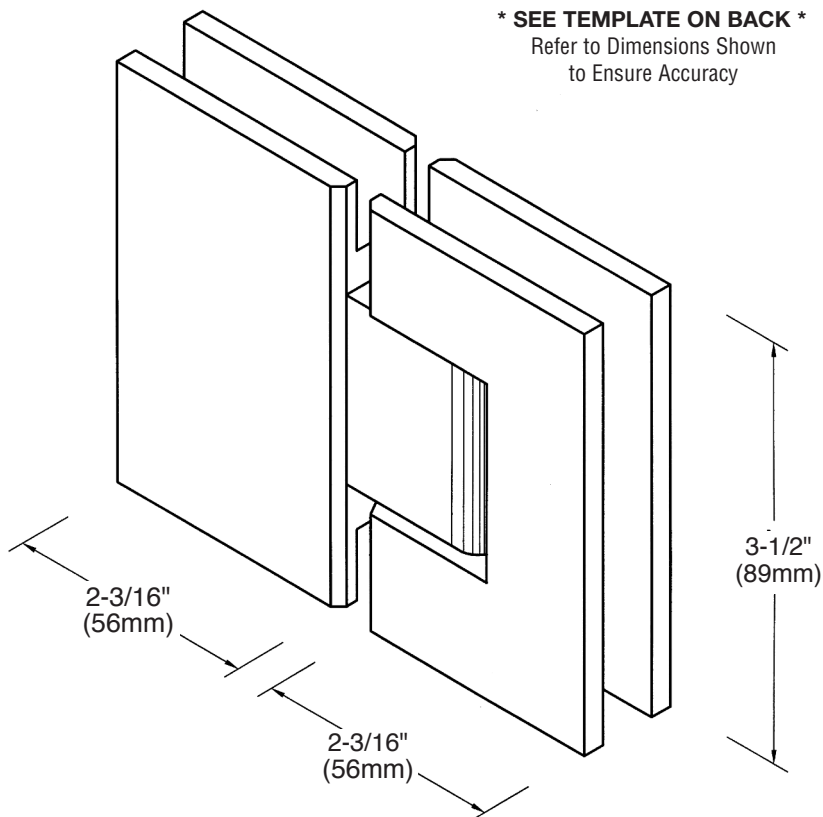
CAT No. BWM1





C.R. LAURENCE CO., INC.
PROFESSIONAL QUALITY

*** SEE TEMPLATE ON BACK ***
Refer to Dimensions Shown
to Ensure Accuracy



INTERNATIONAL

Square 180° Glass-to-Glass Hinge

CAT No. SGM1

*Maximum Door Capacities	5/16" (8mm) and 3/8" (10mm) Glass		1/2" (12mm) Glass	
	Weight	Width	Weight	Width
Using 2 Hinges	80 lbs.(36 kg)	28"(711mm)	80 lbs.(36 kg)	28"(711mm)
Using 3 Hinges	120 lbs.(54 kg)	32"(813mm)	120 lbs.(54 kg)	32"(813mm)

***NOTE:** Do not exceed either maximum weight or width when choosing proper quantity of hinges.

Important Information:

Door and fixed panel use same cutout.

Specifications:

Glass Sizes: 5/16" (8mm), 3/8" (10mm) and 1/2" (12mm) thick tempered safety glass

Construction: Solid brass

Closing Type: Self-centering when within 10° of closed position

Cutout Required

Includes: Gaskets, screws and template

Use of Gaskets:

For 5/16"(8mm) Glass: Use one thick and one thin gasket on each side

For 3/8"(10mm) Glass: Use one thick gasket on each side

For 1/2"(12mm) Glass: Use one thin gasket on each side

Recommendations:

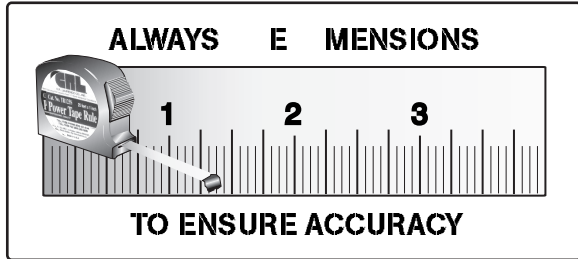
For public safety, we recommend the use of only tempered safety glass.
Do not use power tools when installing these hinges.

Maintenance Guidelines:

- Our hinges are greased at the factory for quiet and trouble-free operation. If there is any squeaking that occurs after installation, put a drop of "3 in 1 Oil" (also known as "household oil") on the white nylon washer that the hinge body pivots on. This washer is the component that acts as a buffer, so the body of the hinge doesn't pivot directly on the brass center block. This solution doesn't require the disassembly of the hinge.
Note: Do not use spray lubricant on these hinges. If the hinge has been disassembled, upon re-assembly, use white lithium grease to lubricate the interior mechanism.
- Never use an abrasive cleaner on the hardware. Many of the components are coated with a clear lacquer that will be irreparably damaged if subjected to harsh, abrasive chemicals. Advise your customer that drying the hardware with a clean, soft towel on a daily basis is the best way to maintain the hardware. If mineral deposits build-up, mix a couple of drops of a mild liquid soap (such as Ivory or a similar product) into a cup of warm water. Using a soft, non-abrasive cloth, clean the hardware. Rinse thoroughly with clean, warm water and dry.

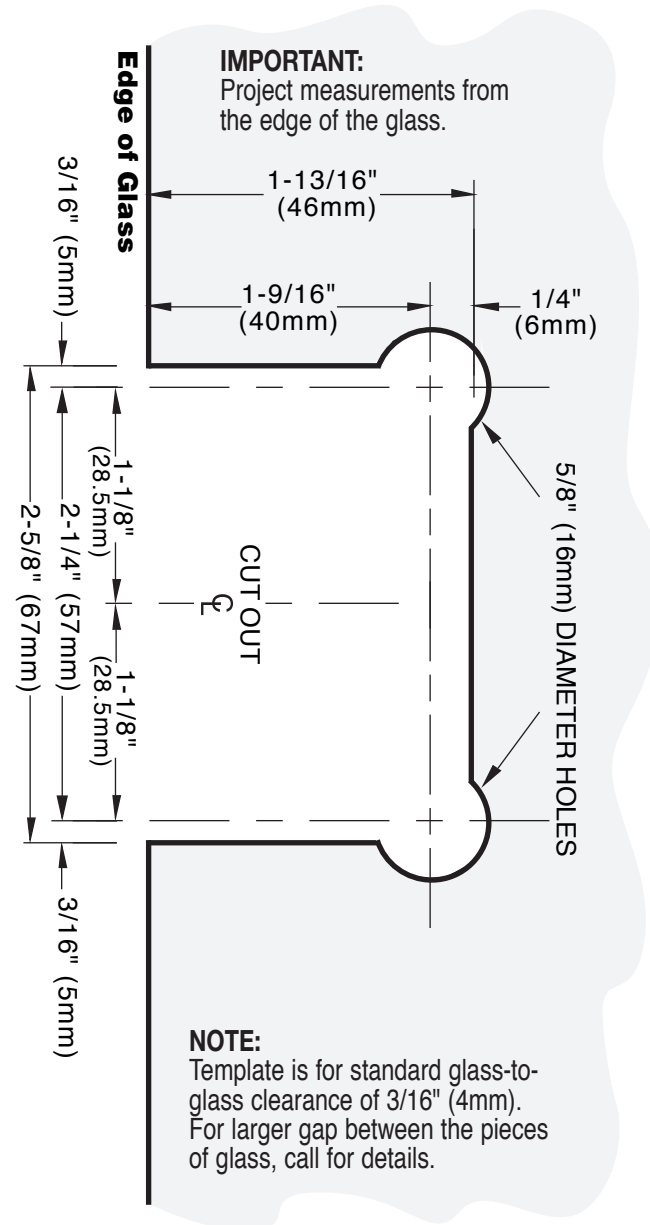


C.R. LAURENCE CO., INC.
PROFESSIONAL QUALITY



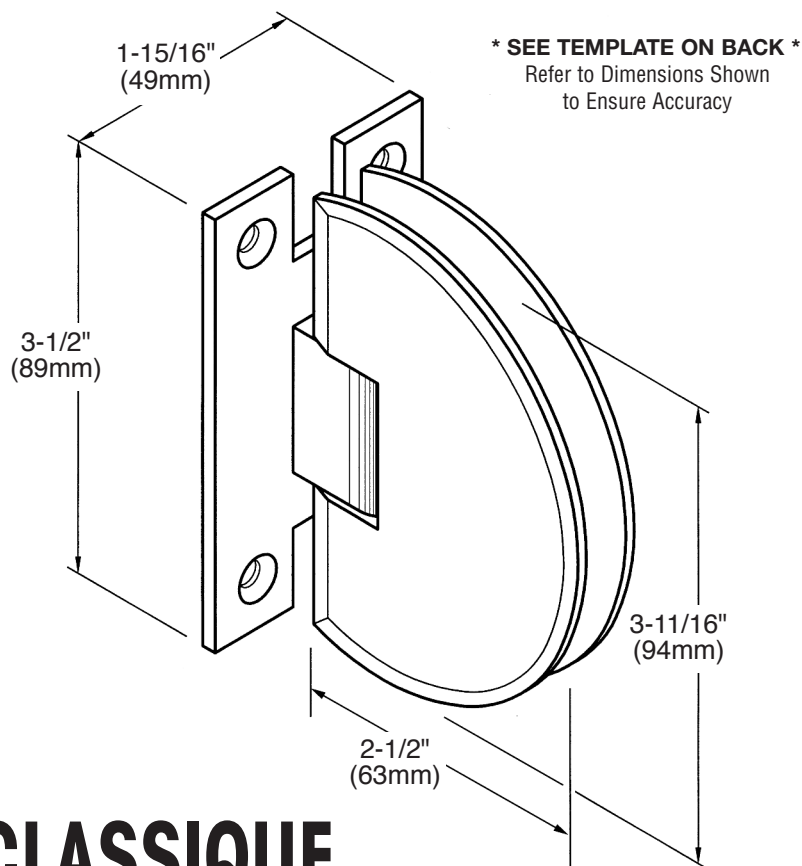
INTERNATIONAL

Square 180° Glass-to-Glass Hinge
 CAT No. SGM1





C.R. LAURENCE CO., INC.
PROFESSIONAL QUALITY



CLASSIQUE

Wall Mount Hinge – Standard Back Plate

CAT No. CLA037

*Maximum Door Capacities	5/16" (8mm) Glass		3/8" (10mm) Glass	
	Weight	Width	Weight	Width
Using 2 Hinges	80 lbs.(36 kg)	31"(787mm)	80 lbs.(36 kg)	31"(787mm)
Using 3 Hinges	120 lbs.(55 kg)	34"(864mm)	120 lbs.(55 kg)	34"(864mm)

***NOTE:** Do not exceed either maximum weight or width when choosing proper quantity of hinges.

Specifications:

Glass Sizes: 5/16" (8mm) to 3/8" (10mm) thick tempered safety glass

Construction: Solid brass

Closing Type: Self-centering when within 15° of closed position

Cutout Required

Includes: Gaskets, screws and template

Use of Gaskets:

For 5/16"(8mm) Glass: Use one thick gasket on each side

For 3/8"(10mm) Glass: Use one thin gasket on one side and a thick gasket on the other side

Recommendations:

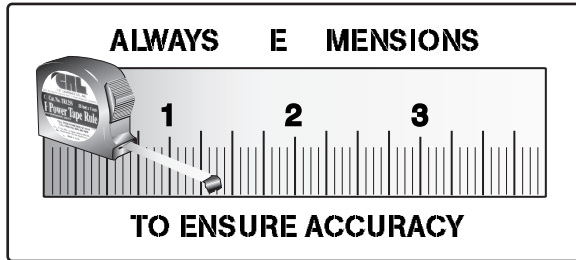
For public safety, we recommend the use of only tempered safety glass.
Do not use power tools when installing these hinges.

Maintenance Guidelines:

- Never use an abrasive cleaner on the hardware. Many of the components are coated with a clear lacquer that will be irreparably damaged if subjected to harsh, abrasive chemicals. Advise your customer that drying the hardware with a clean, soft towel on a daily basis is the best way to maintain the hardware. If mineral deposits build-up, mix a couple of drops of a mild liquid soap (such as Ivory or a similar product) into a cup of warm water. Using a soft, non-abrasive cloth, clean the hardware. Rinse thoroughly with clean, warm water and dry.



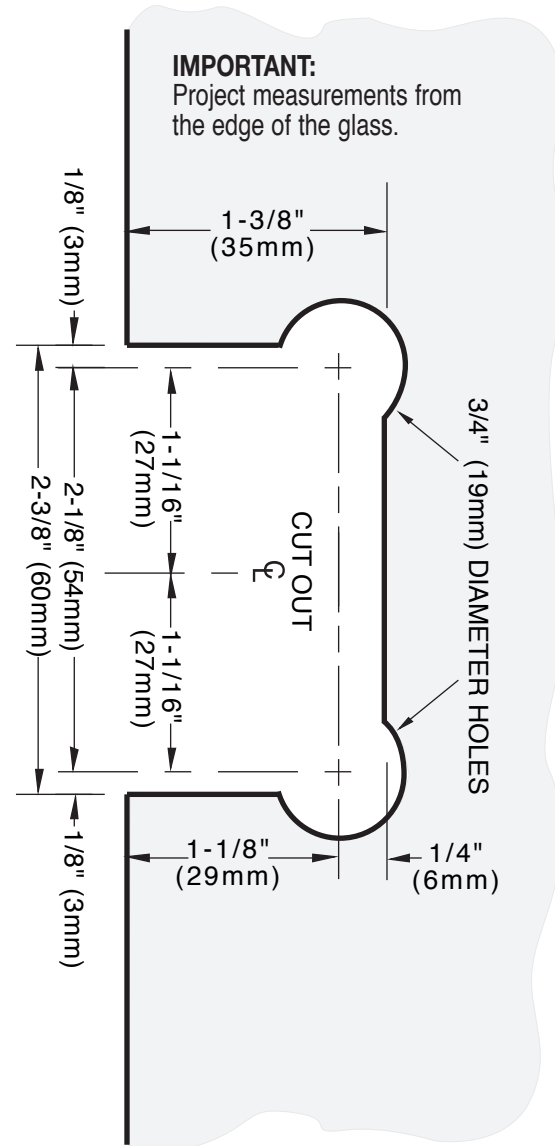
C.R. LAURENCE CO., INC.
PROFESSIONAL QUALITY



CLASSIQUE

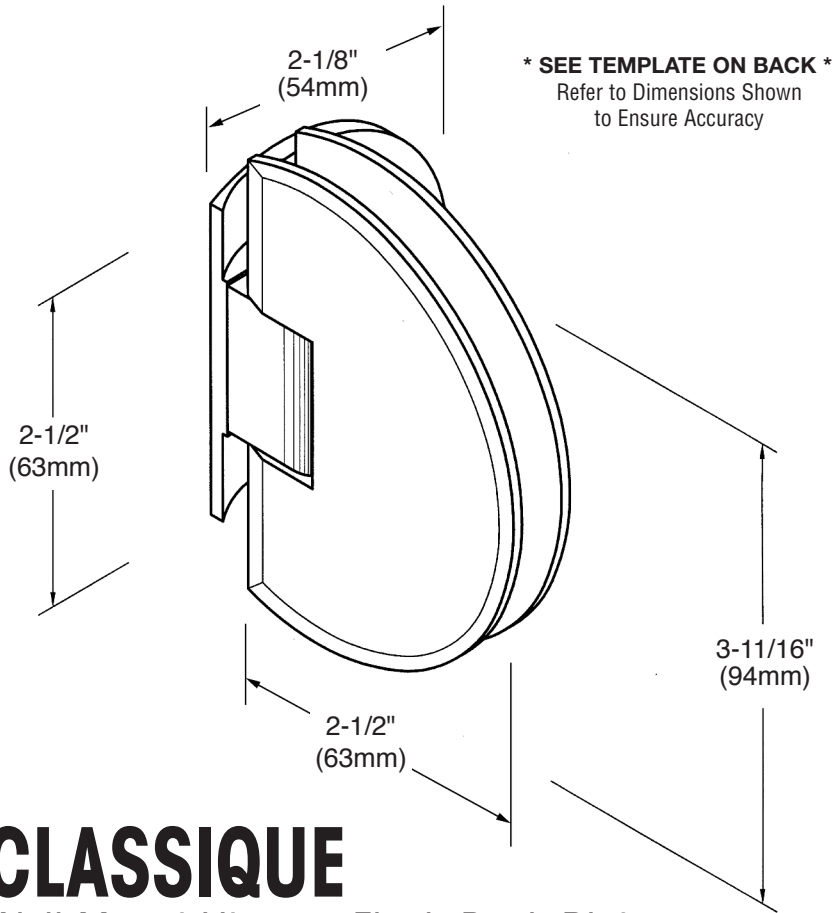
Wall Mount Hinge – Standard Back Plate

CAT No. CLA037





C.R. LAURENCE CO., INC.
PROFESSIONAL QUALITY



CLASSIQUE

Wall Mount Hinge – Flush Back Plate

CAT No. CLA044

*Maximum Door Capacities	5/16" (8mm) Glass		3/8" (10mm) Glass	
	Weight	Width	Weight	Width
Using 2 Hinges	80 lbs.(36 kg)	31"(787mm)	80 lbs.(36 kg)	31"(787mm)
Using 3 Hinges	120 lbs.(55 kg)	34"(864mm)	120 lbs.(55 kg)	34"(864mm)

*NOTE: Do not exceed either maximum weight or width when choosing proper quantity of hinges.

Specifications:

Glass Sizes: 5/16" (8mm) to 3/8" (10mm) thick tempered safety glass

Construction: Solid brass

Closing Type: Self-centering when within 15° of closed position

Cutout Required

Includes: Gaskets, screws and template

Use of Gaskets:

For 5/16"(8mm) Glass: Use one thick gasket on each side

For 3/8"(10mm) Glass: Use one thin gasket on one side and a thick gasket on the other side

Recommendations:

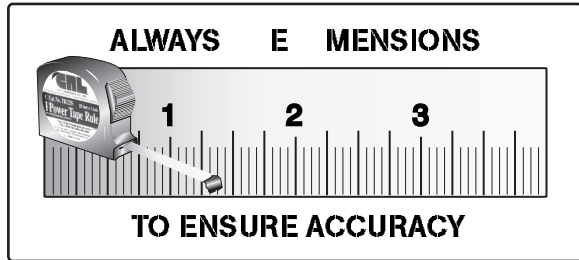
For public safety, we recommend the use of only tempered safety glass.
 Do not use power tools when installing these hinges.

Maintenance Guidelines:

- Never use an abrasive cleaner on the hardware. Many of the components are coated with a clear lacquer that will be irreparably damaged if subjected to harsh, abrasive chemicals. Advise your customer that drying the hardware with a clean, soft towel on a daily basis is the best way to maintain the hardware. If mineral deposits build-up, mix a couple of drops of a mild liquid soap (such as Ivory or a similar product) into a cup of warm water. Using a soft, non-abrasive cloth, clean the hardware. Rinse thoroughly with clean, warm water and dry.



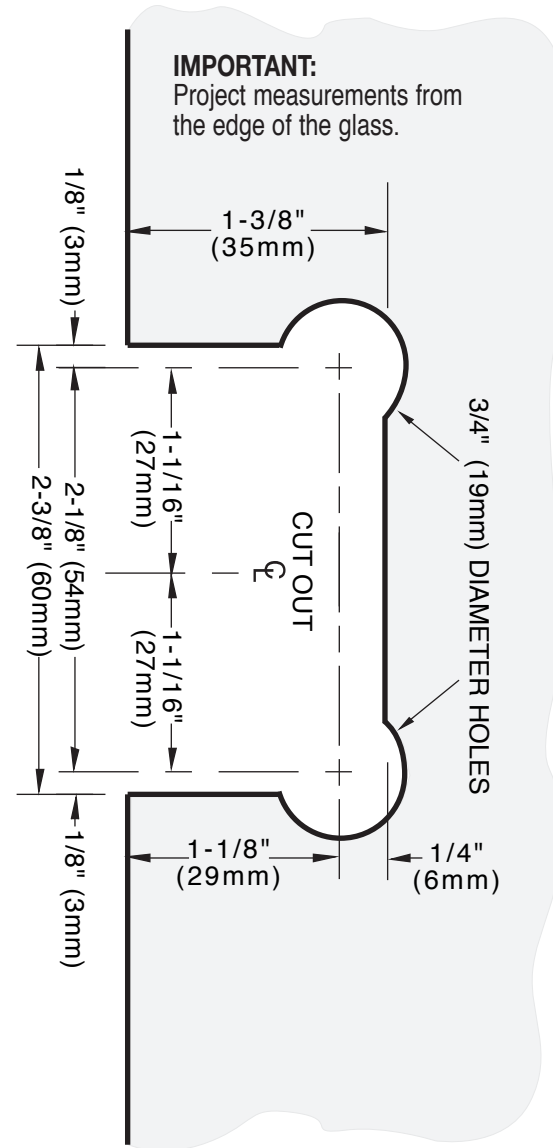
C.R. LAURENCE CO., INC.
PROFESSIONAL QUALITY



CLASSIQUE

Wall Mount Hinge – Flush Back Plate

Cat No. **CLA044**





C.R. LAURENCE CO., INC.
PROFESSIONAL QUALITY

Important Information:

The door and fixed panel use the same cutout.

Specifications:

Glass Sizes: 5/16" (8mm) to 3/8" (10mm) thick tempered safety glass

Construction: Solid brass

Closing Type: Self-centering when within 15° of closed position

Cutout Required

Includes: Gaskets, screws and template

Use of Gaskets:

For 5/16"(8mm) Glass: Use one thick gasket on each side

For 3/8"(10mm) Glass: Use one thin gasket on one side and a thick gasket on the other side

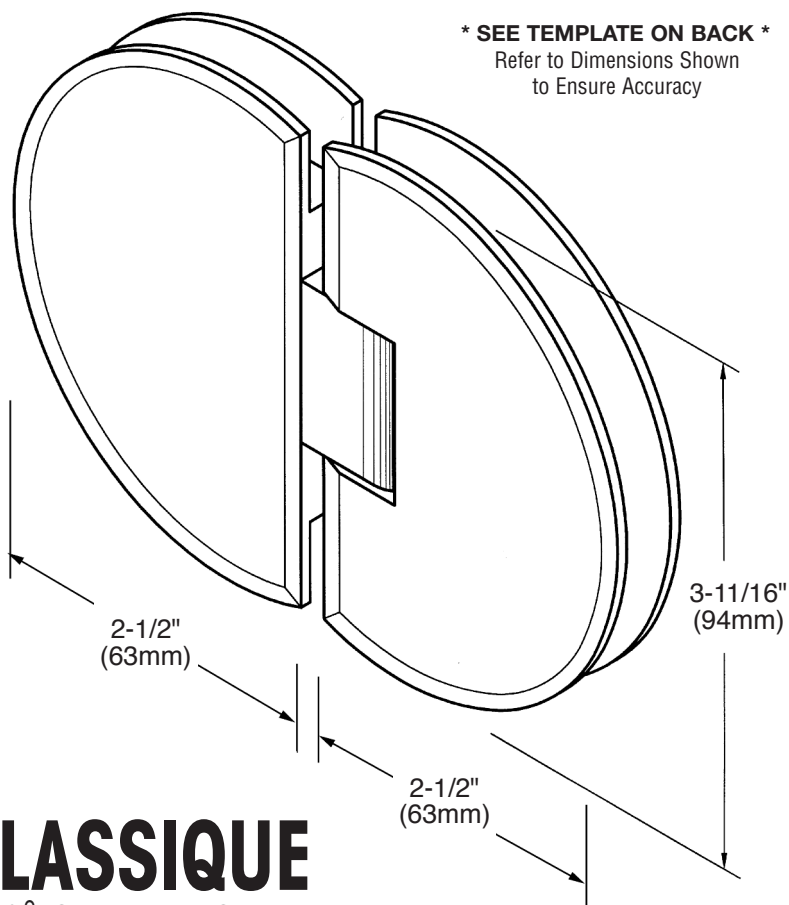
Recommendations:

For public safety, we recommend the use of only tempered safety glass.

Do not use power tools when installing these hinges.

Maintenance Guidelines:

- Never use an abrasive cleaner on the hardware. Many of the components are coated with a clear lacquer that will be irreparably damaged if subjected to harsh, abrasive chemicals. Advise your customer that drying the hardware with a clean, soft towel on a daily basis is the best way to maintain the hardware. If mineral deposits build-up, mix a couple of drops of a mild liquid soap (such as Ivory or a similar product) into a cup of warm water. Using a soft, non-abrasive cloth, clean the hardware. Rinse thoroughly with clean, warm water and dry.



CLASSIQUE

180° Glass-to-Glass Hinge

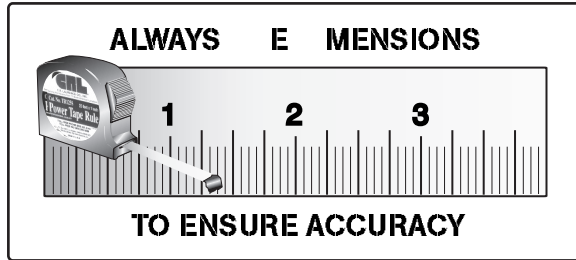
CAT No. CLA180

*Maximum Door Capacities	5/16" (8mm) Glass		3/8" (10mm) Glass	
	Weight	Width	Weight	Width
Using 2 Hinges	80 lbs.(36 kg)	31"(787mm)	80 lbs.(36 kg)	31"(787mm)
Using 3 Hinges	120 lbs.(55 kg)	34"(864mm)	120 lbs.(55 kg)	34"(864mm)

*NOTE: Do not exceed either maximum weight or width when choosing proper quantity of hinges.

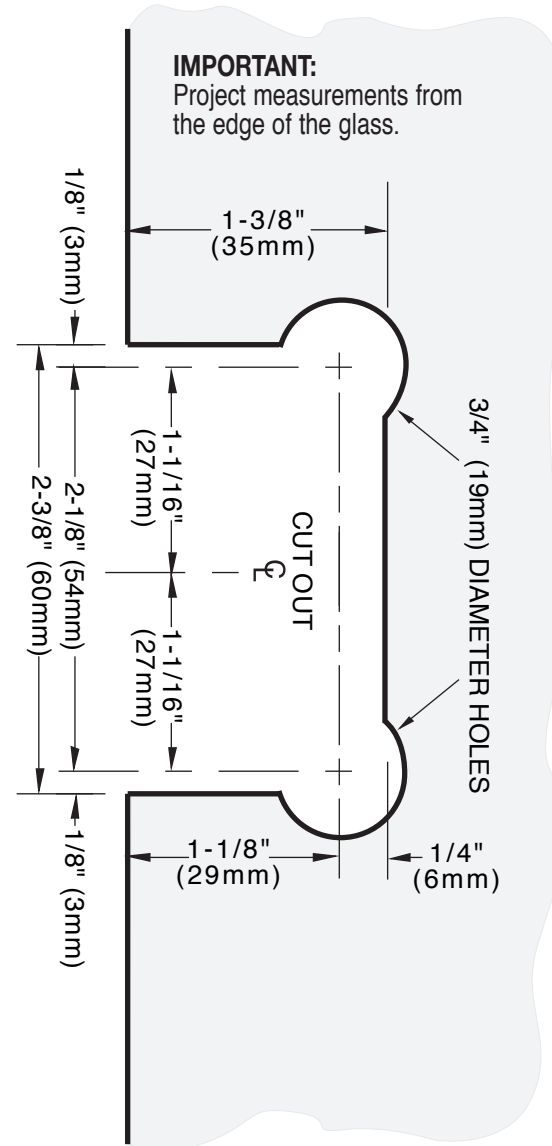


C.R. LAURENCE CO., INC.
PROFESSIONAL QUALITY



CLASSIQUE

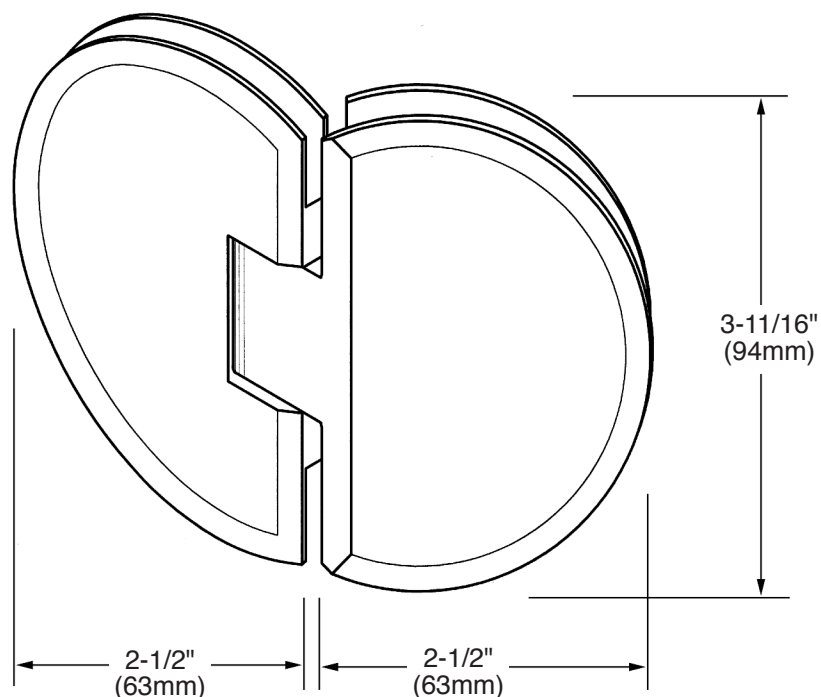
180° Glass-to-Glass Hinge
CAT No. CLA180



C.R. Laurence Co., Inc. For technical assistance in the United States call toll free (800) 421-6144; from Canada call toll free (877) 421-6144;
crlaurence.com Outside the U.S. and Canada call (323) 588-1281. Ask for Tech Sales at Extension 7740. Toll free fax (800) 458-7496.



C.R. LAURENCE CO., INC.
PROFESSIONAL QUALITY



CLASSIQUE

135° Glass-to-Glass Hinge

CAT No. CLA135

(This hinge requires two different templates, one for the door and one for the mitered fixed panel).

*Maximum Door Capacities	5/16" (8mm) Glass		3/8" (10mm) Glass	
	Weight	Width	Weight	Width
Using 2 Hinges	80 lbs.(36 kg)	31"(787mm)	80 lbs.(36 kg)	31"(787mm)
Using 3 Hinges	120 lbs.(55 kg)	34"(864mm)	120 lbs.(55 kg)	34"(864mm)

*NOTE: Do not exceed either maximum weight or width when choosing proper quantity of hinges.

Important Information:

The fixed panel measurements must be taken from the inside of the miter.

Specifications:

Glass Sizes: 5/16" (8mm) to 3/8" (10mm) thick tempered safety glass

Construction: Solid brass

Closing Type: Self-centering when within 15° of closed position

Cutout Required

Includes: Gaskets, screws and template

Use of Gaskets:

For 5/16"(8mm) Glass: Use one thick gasket on each side

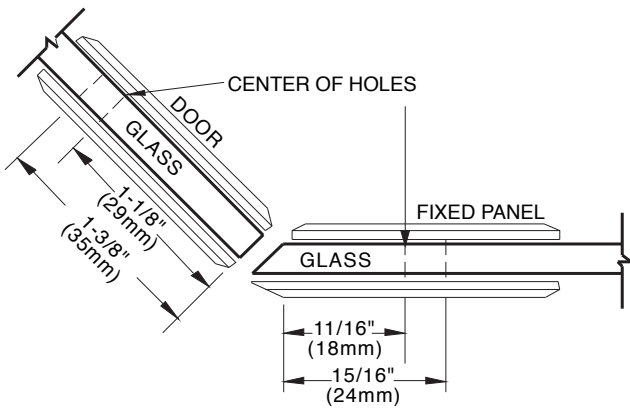
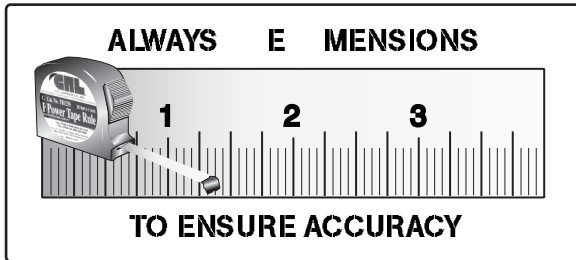
For 3/8"(10mm) Glass: Use one thin gasket on one side and a thick gasket on the other side

Recommendations:

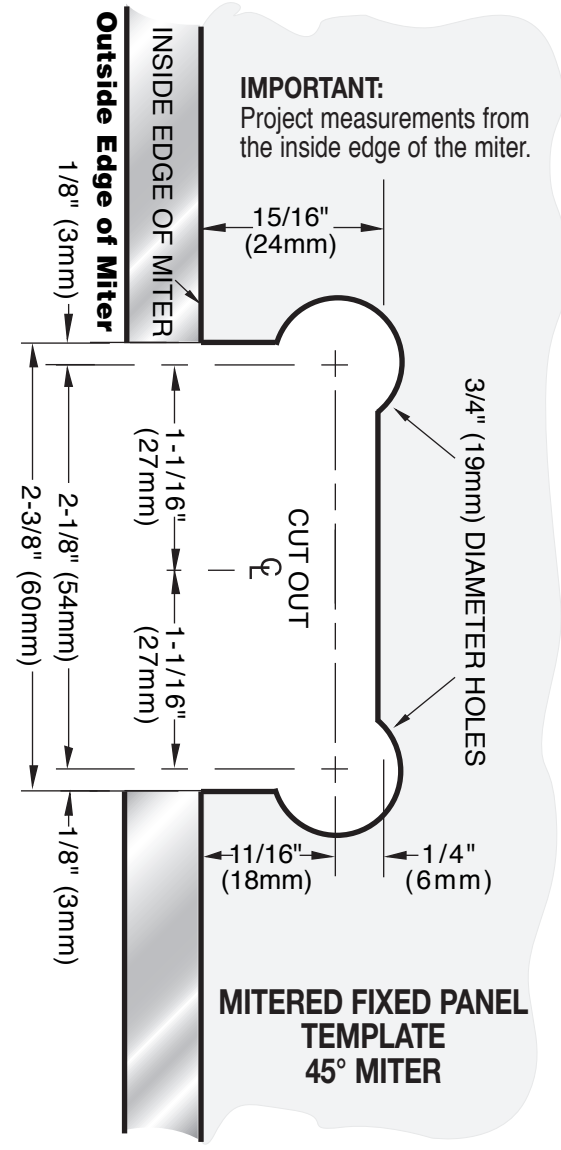
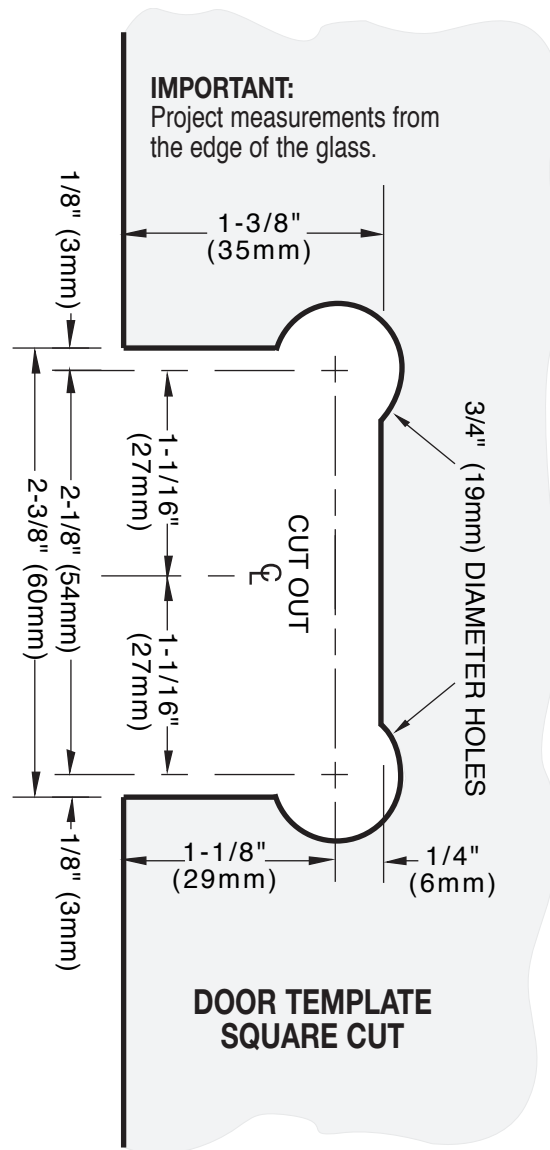
For public safety, we recommend the use of only tempered safety glass. Do not use power tools when installing these hinges.

Maintenance Guidelines:

- Never use an abrasive cleaner on the hardware. Many of the components are coated with a clear lacquer that will be irreparably damaged if subjected to harsh, abrasive chemicals. Advise your customer that drying the hardware with a clean, soft towel on a daily basis is the best way to maintain the hardware. If mineral deposits build-up, mix a couple of drops of a mild liquid soap (such as Ivory or a similar product) into a cup of warm water. Using a soft, non-abrasive cloth, clean the hardware. Rinse thoroughly with clean, warm water and dry.

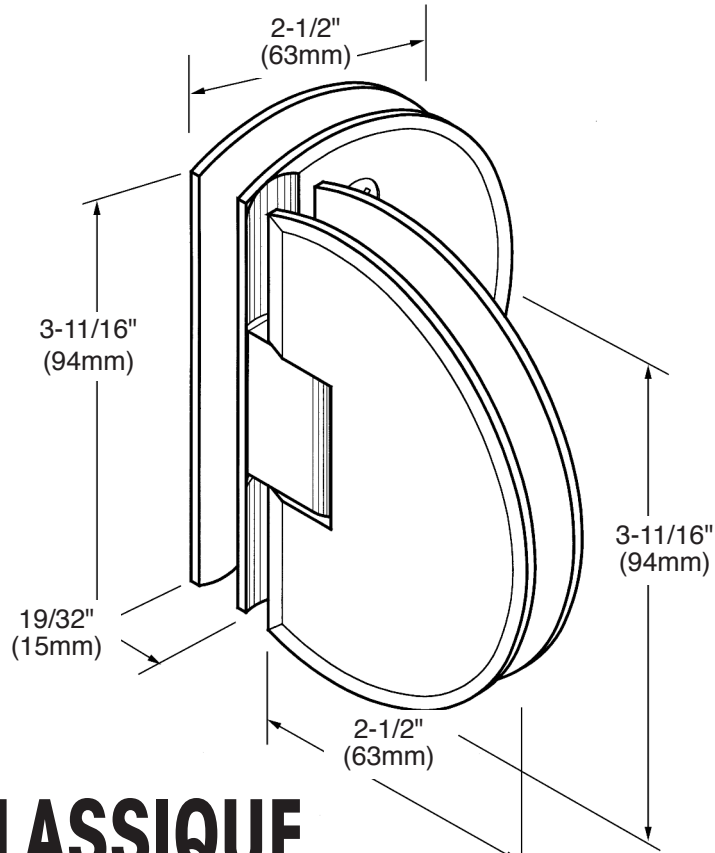


CLASSIQUE
135° Glass-to-Glass Hinge
Cat No. CLA135





C.R. LAURENCE CO., INC.
PROFESSIONAL QUALITY



CLASSIQUE

90° Glass-to-Glass Hinge

CAT. No. CLA090

*** SEE TEMPLATE ON BACK ***
Refer to Dimensions Shown
to Ensure Accuracy

Important Information:

The door template is a cutout.
The fixed panel template is holes only.

Specifications:

Glass Sizes: 5/16" (8mm) to 3/8" (10mm) thick tempered safety glass

Construction: Solid brass

Closing Type: Self-centering when within 15° of closed position

Cutout Required

Includes: Gaskets, screws and template

Use of Gaskets:

For 5/16"(8mm) Glass: Use one thick gasket on each side

For 3/8"(10mm) Glass: Use one thin gasket on one side and a thick gasket on the other side

Recommendations:

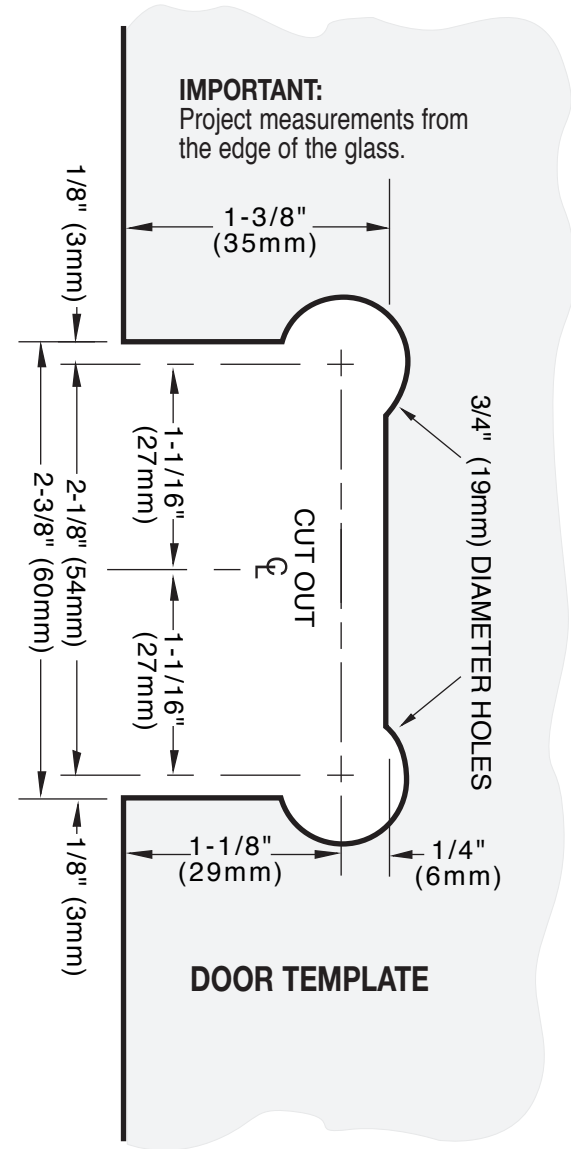
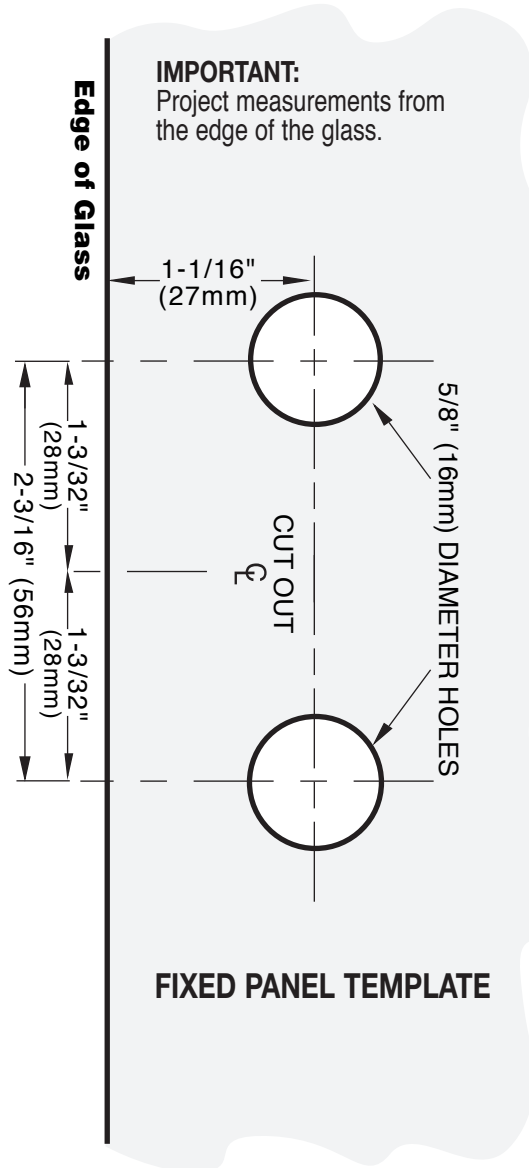
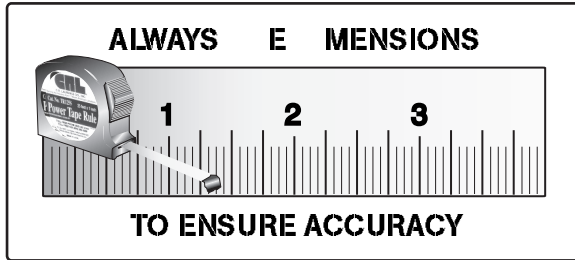
For public safety, we recommend the use of only tempered safety glass.
Do not use power tools when installing these hinges.

Maintenance Guidelines:

- Never use an abrasive cleaner on the hardware. Many of the components are coated with a clear lacquer that will be irreparably damaged if subjected to harsh, abrasive chemicals. Advise your customer that drying the hardware with a clean, soft towel on a daily basis is the best way to maintain the hardware. If mineral deposits build-up, mix a couple of drops of a mild liquid soap (such as Ivory or a similar product) into a cup of warm water. Using a soft, non-abrasive cloth, clean the hardware. Rinse thoroughly with clean, warm water and dry.

*Maximum Door Capacities	5/16" (8mm) Glass		3/8" (10mm) Glass	
	Weight	Width	Weight	Width
Using 2 Hinges	80 lbs.(36 kg)	31"(787mm)	80 lbs.(36 kg)	31"(787mm)
Using 3 Hinges	120 lbs.(55 kg)	34"(864mm)	120 lbs.(55 kg)	34"(864mm)

***NOTE:** Do not exceed either maximum weight or width when choosing proper quantity of hinges.

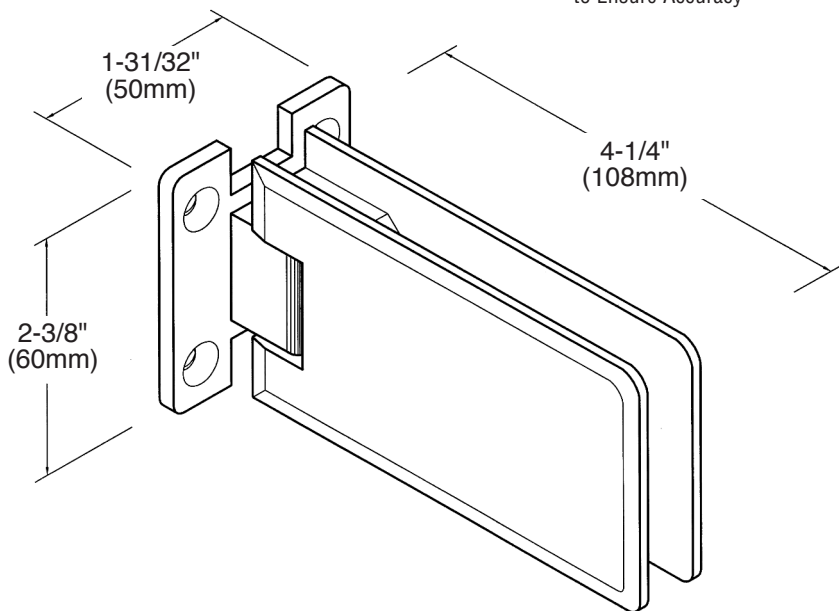


CLASSIQUE
90° Glass-to-Glass Hinge
Cat. No. CLA090



C.R. LAURENCE CO., INC.
PROFESSIONAL QUALITY

*** SEE TEMPLATE ON BACK ***
 Refer to Dimensions Shown
 to Ensure Accuracy



Specifications:

Glass Sizes: 5/16" (8mm) to 3/8" (10mm) thick tempered safety glass

Construction: Solid brass

Closing Type: Self-centering when within 15° of closed position

Cutout and Hole Required

Includes: Gaskets, screws and template

Use of Gaskets:

For 5/16"(8mm) Glass: Use one thick gasket on each side

For 3/8"(10mm) Glass: Use one thin gasket on one side and a thick gasket on the other side

Recommendations:

For public safety, we recommend the use of only tempered safety glass.

Do not use power tools when installing these hinges.

Maintenance Guidelines:

- Never use an abrasive cleaner on the hardware. Many of the components are coated with a clear lacquer that will be irreparably damaged if subjected to harsh, abrasive chemicals. Advise your customer that drying the hardware with a clean, soft towel on a daily basis is the best way to maintain the hardware. If mineral deposits build-up, mix a couple of drops of a mild liquid soap (such as Ivory or a similar product) into a cup of warm water. Using a soft, non-abrasive cloth, clean the hardware. Rinse thoroughly with clean, warm water and dry.

GRANDE

Standard Back Plate – Wall Mount Hinge

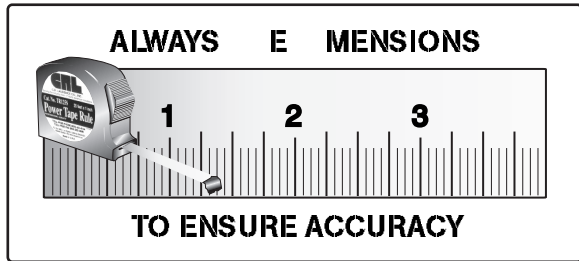
Cat No. GRA037

Top and Bottom Corner Mount OptionPage 4M-2

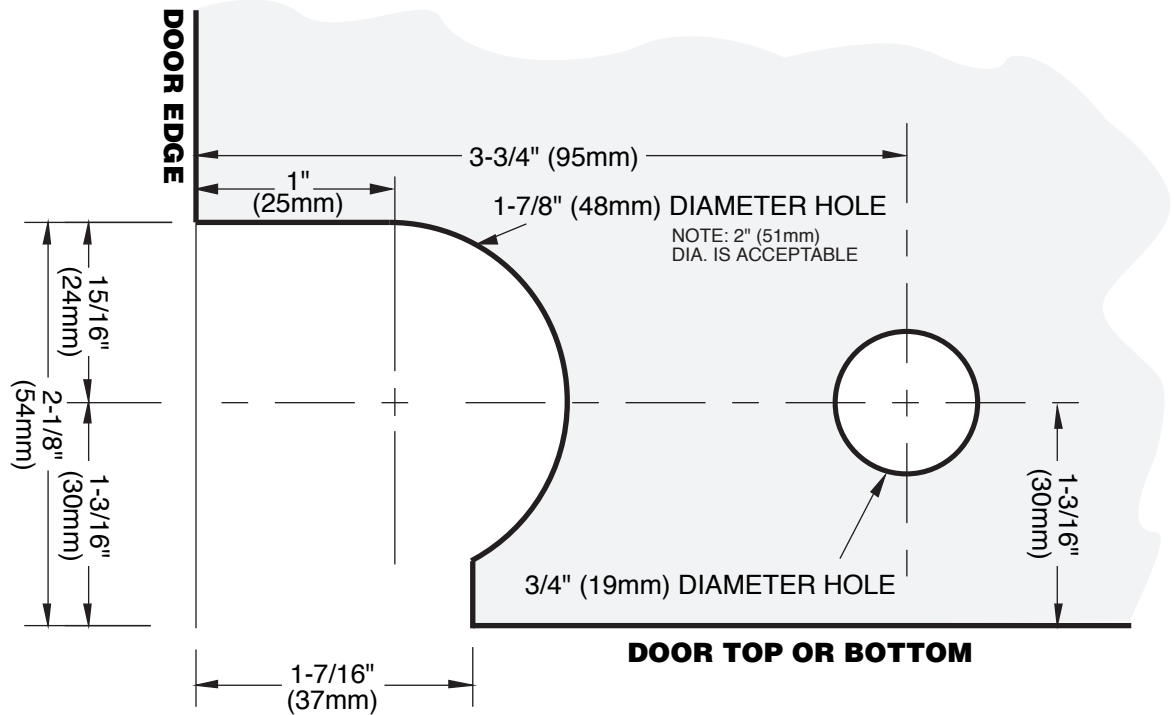
Center Mount OptionPage 4M-3

*Maximum Door Capacities	5/16" (8mm) Glass		3/8" (10mm) Glass	
	Weight	Width	Weight	Width
Using 2 Hinges	90 lbs.(41 kg)	31"(787mm)	90 lbs.(41 kg)	31"(787mm)
Using 3 Hinges	134 lbs.(61 kg)	34"(864mm)	134 lbs.(61 kg)	34"(864mm)

***NOTE:** Do not exceed either maximum weight or width when choosing proper quantity of hinges.



IMPORTANT:
Project measurements from the edge of the glass.



TOP OR BOTTOM CORNER MOUNT TEMPLATE

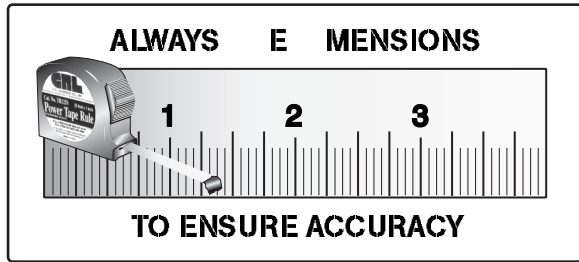
GRANDE

Standard Back Plate – Wall Mount Hinge
Top and Bottom Corner Mount Option

CAT No. GRA037

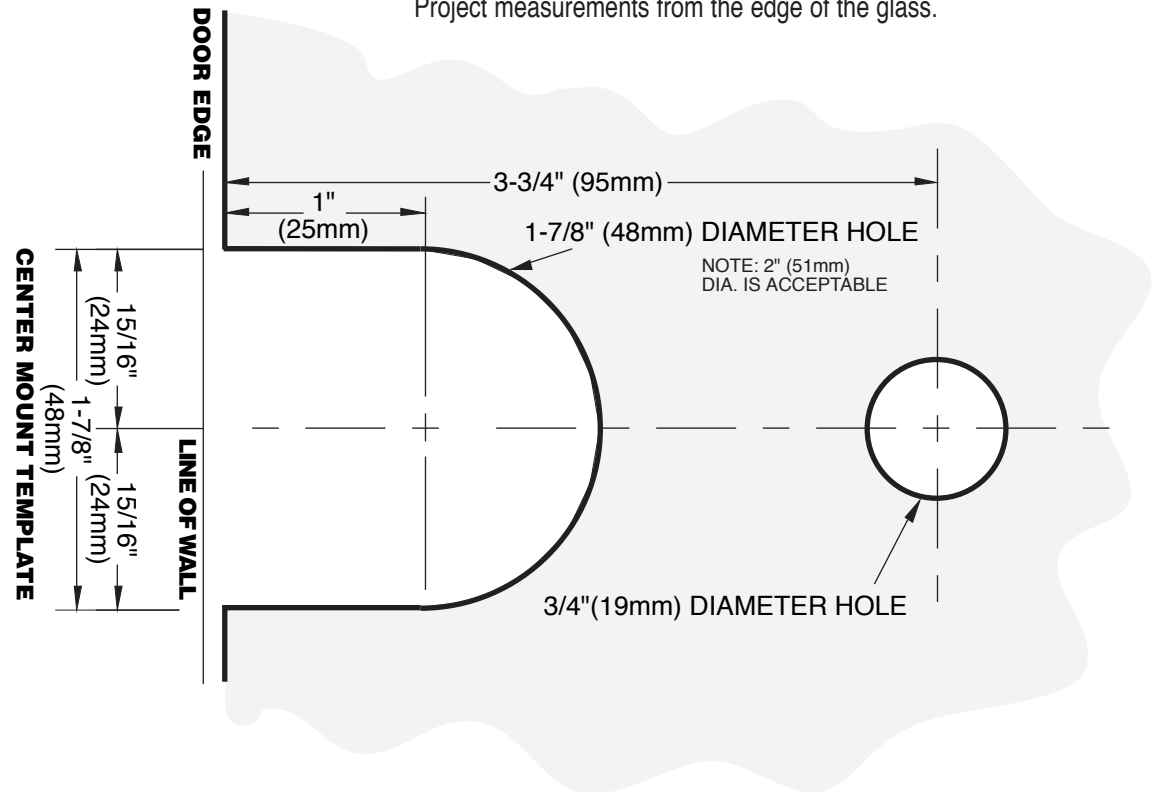


C.R. LAURENCE CO., INC.
PROFESSIONAL QUALITY



IMPORTANT:

Project measurements from the edge of the glass.



CENTER MOUNT TEMPLATE

GRANDE

Standard Back Plate – Wall Mount Hinge

Center Mount Option

CAT No. GRA037



C.R. Laurence Company has established a Technical Sales Department to assist our customers. If you have any questions concerning shower door hardware or any product from CRL, please contact us at:
(800) 421-6144 in the U.S.,
or (877) 421-6144 from Canada,
and ask for Extension 7740



Important Information:

The fixed panel measurements must be taken from inside of the miter.

Specifications:

Glass Sizes: 5/16"(8mm) to 3/8"(10mm) thick tempered safety glass

Construction: Solid brass

Closing Type: Self-centering when within 15° of closed position

Cutout and Hole Required

Includes: Gaskets, screws and template

Use of Gaskets:

For 5/16"(8mm) Glass: Use one thick gasket on each side

For 3/8"(10mm) Glass: Use one thin gasket on one side and one thick gasket on the other side

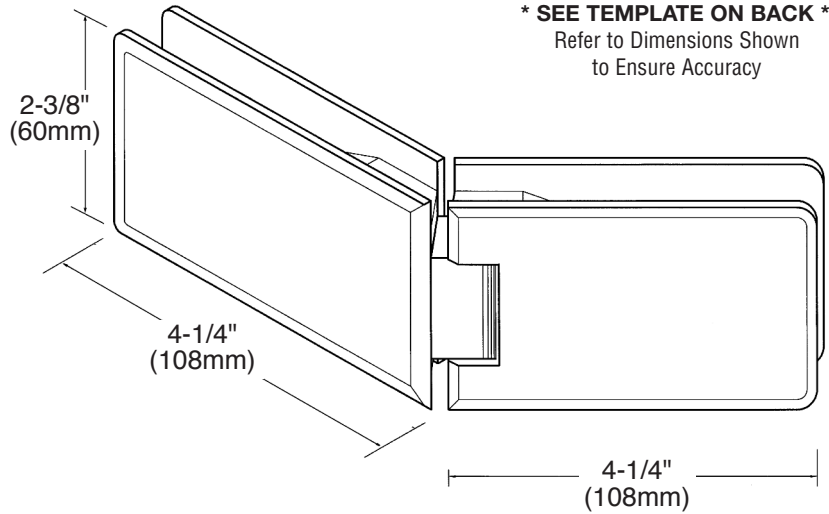
Recommendations:

For public safety, we recommend the use of only tempered safety glass.

Do not use power tools when installing these hinges.

Maintenance Guidelines:

- Never use an abrasive cleaner on the hardware. Many of the components are coated with a clear lacquer that will be irreparably damaged if subjected to harsh, abrasive chemicals. Advise your customer that drying the hardware with a clean, soft towel on a daily basis is the best way to maintain the hardware. If mineral deposits build-up, mix a couple of drops of a mild liquid soap (such as Ivory or a similar product) into a cup of warm water. Using a soft, non-abrasive cloth, clean the hardware. Rinse thoroughly with clean, warm water and dry.



GRANDE

135° Glass-to-Glass Hinge

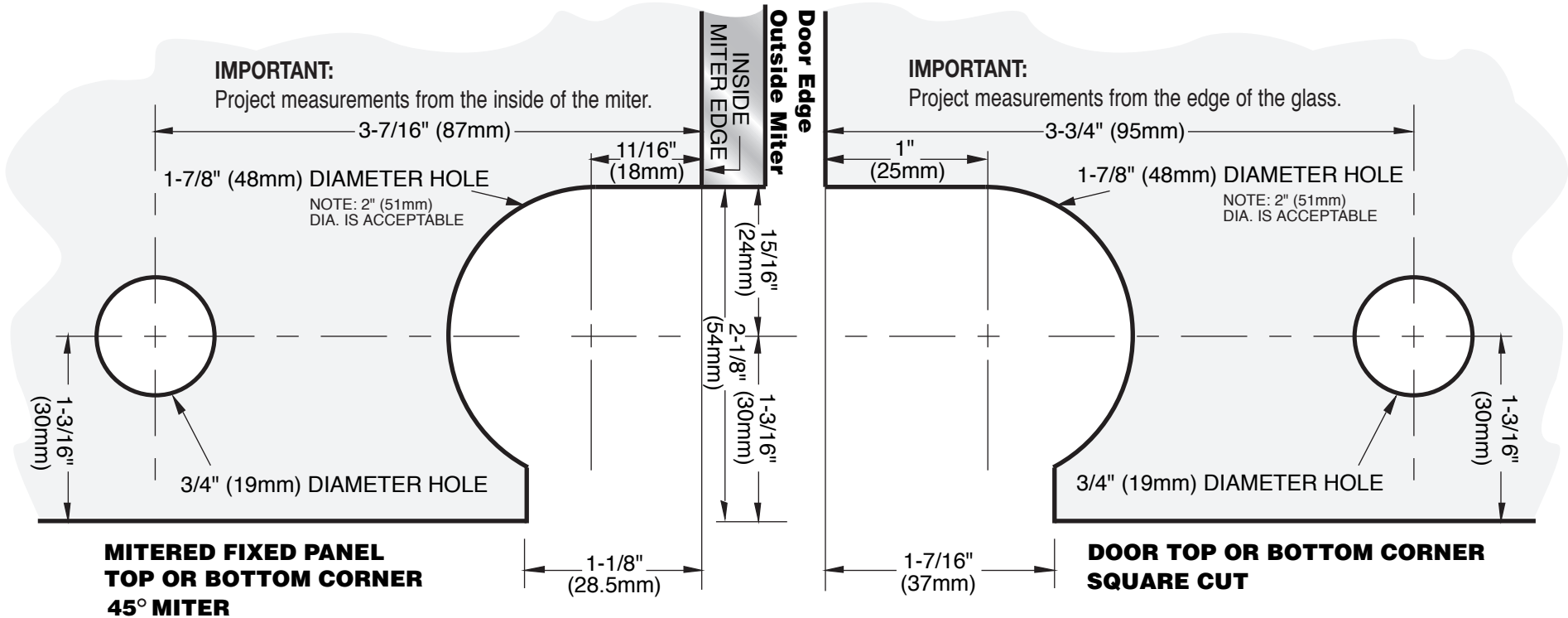
CAT No. GRA135

(This hinge requires two different templates, one for the door and one for the mitered fixed panel).

Top and Bottom Corner Mount Option Page 4M-14
Center Mount Option Page 4M-15

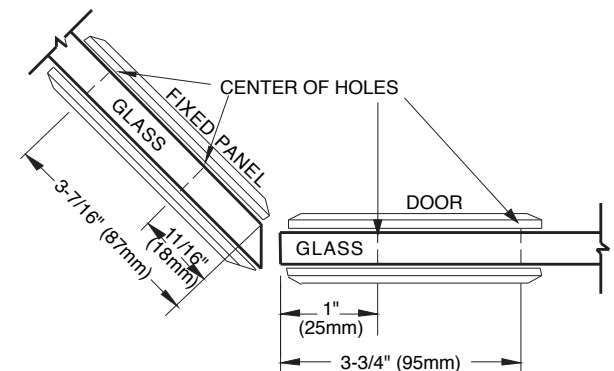
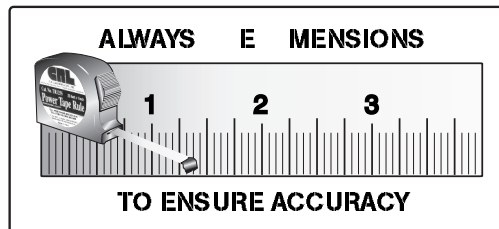
*Maximum Door Capacities	5/16" (8mm) Glass		3/8" (10mm) Glass	
	Weight	Width	Weight	Width
Using 2 Hinges	90 lbs.(41 kg)	31"(878mm)	90 lbs.(41 kg)	31"(878mm)
Using 3 Hinges	134 lbs.(61 kg)	34"(864mm)	134 lbs.(61 kg)	34"(864mm)

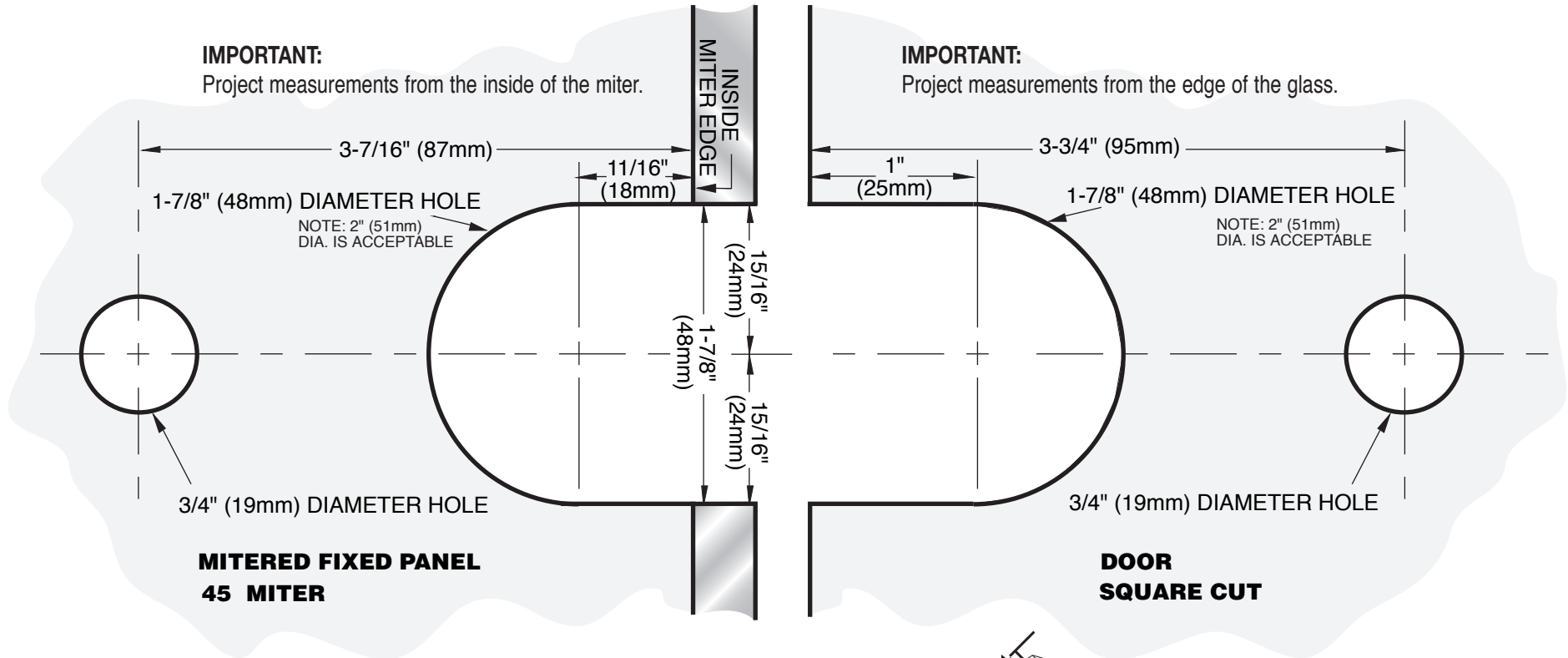
*NOTE: Do not exceed either maximum weight or width when choosing proper quantity of hinges.



GRANDE

135° Glass-to-Glass Hinge
Top and Bottom Corner Mount Option
CAT No. GRA135

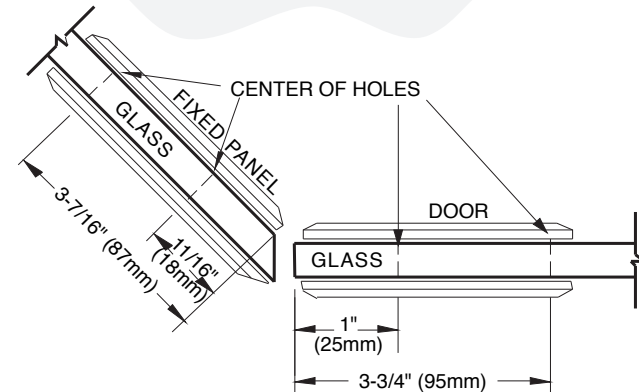
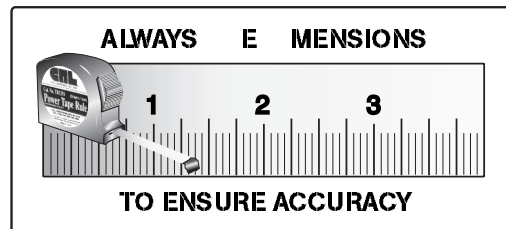




GRANDE

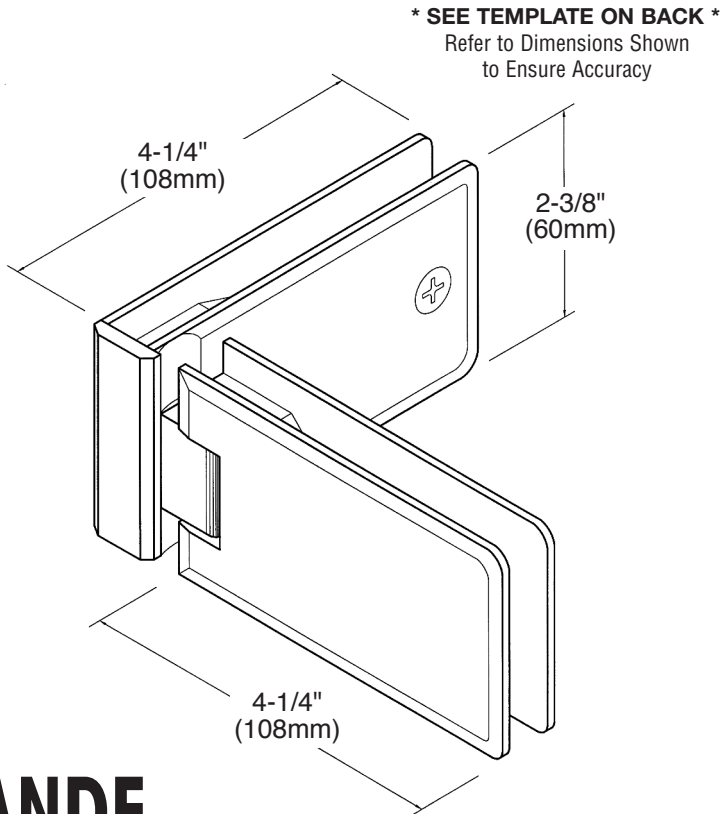
135° Glass-to-Glass Hinge
Center Mount Option

CAT No. GRA135





C.R. Laurence Company has established a Technical Sales Department to assist our customers. If you have any questions concerning shower door hardware or any product from CRL, please contact us at:
(800) 421-6144 in the U.S.,
or (877) 421-6144 from Canada,
and ask for Extension 7740



GRANDE

90° Glass-to-Glass Hinge

Cat No. GRA090

Top and Bottom Corner Mount OptionPage 4M-18
Center Mount OptionPage 4M-19

*Maximum Door Capacities	5/16" (8mm) Glass		3/8" (10mm) Glass	
	Weight	Width	Weight	Width
Using 2 Hinges	90 lbs.(41 kg)	31"(787mm)	90 lbs.(41 kg)	31"(787mm)
Using 3 Hinges	134 lbs.(61 kg)	34"(864mm)	134 lbs.(61 kg)	34"(864mm)

*NOTE: Do not exceed either maximum weight or width when choosing proper quantity of hinges.

Important Information:

The door and fixed panel use the same cutout.

Specifications:

Glass Sizes: 5/16"(8mm) to 3/8"(10mm) thick tempered safety glass

Construction: Solid brass

Closing Type: Self-centering when within 15° of closed position

Cutout and Hole Required

Includes: Gaskets, screws and template

Use of Gaskets:

For 5/16"(8mm) Glass: Use one thick gasket on each side

For 3/8"(10mm) Glass: Use one thin gasket on one side and one thick gasket on the other side

Recommendations:

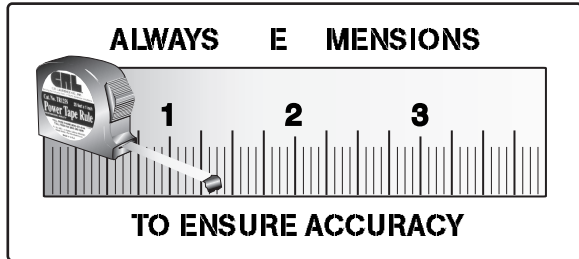
For public safety, we recommend the use of only tempered safety glass.
Do not use power tools when installing these hinges.

Maintenance Guidelines:

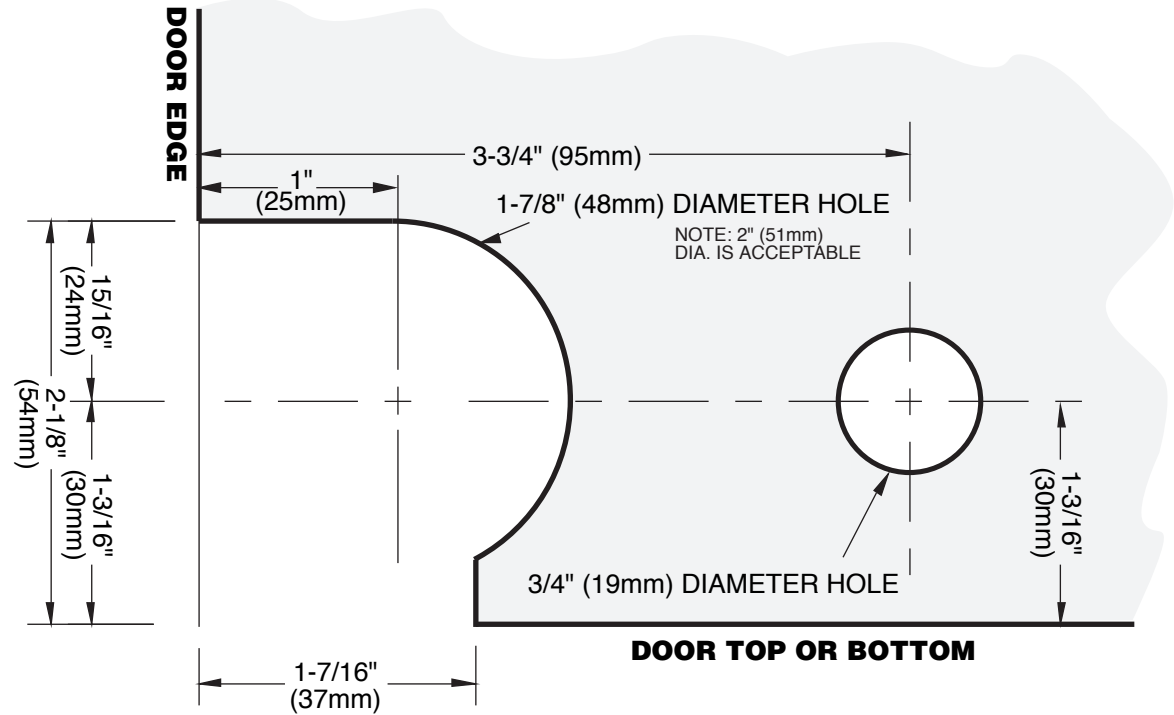
- Never use an abrasive cleaner on the hardware. Many of the components are coated with a clear lacquer that will be irreparably damaged if subjected to harsh, abrasive chemicals. Advise your customer that drying the hardware with a clean, soft towel on a daily basis is the best way to maintain the hardware. If mineral deposits build-up, mix a couple of drops of a mild liquid soap (such as Ivory or a similar product) into a cup of warm water. Using a soft, non-abrasive cloth, clean the hardware. Rinse thoroughly with clean, warm water and dry.



C.R. LAURENCE CO., INC.
PROFESSIONAL QUALITY



IMPORTANT:
 Project measurements from the edge of the glass.



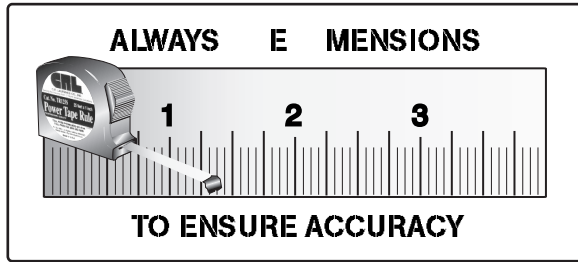
TOP OR BOTTOM CORNER MOUNT TEMPLATE

GRANDE

90° Glass-to-Glass Hinge
 Top and Bottom Corner Mount Option
CAT No. GRA090

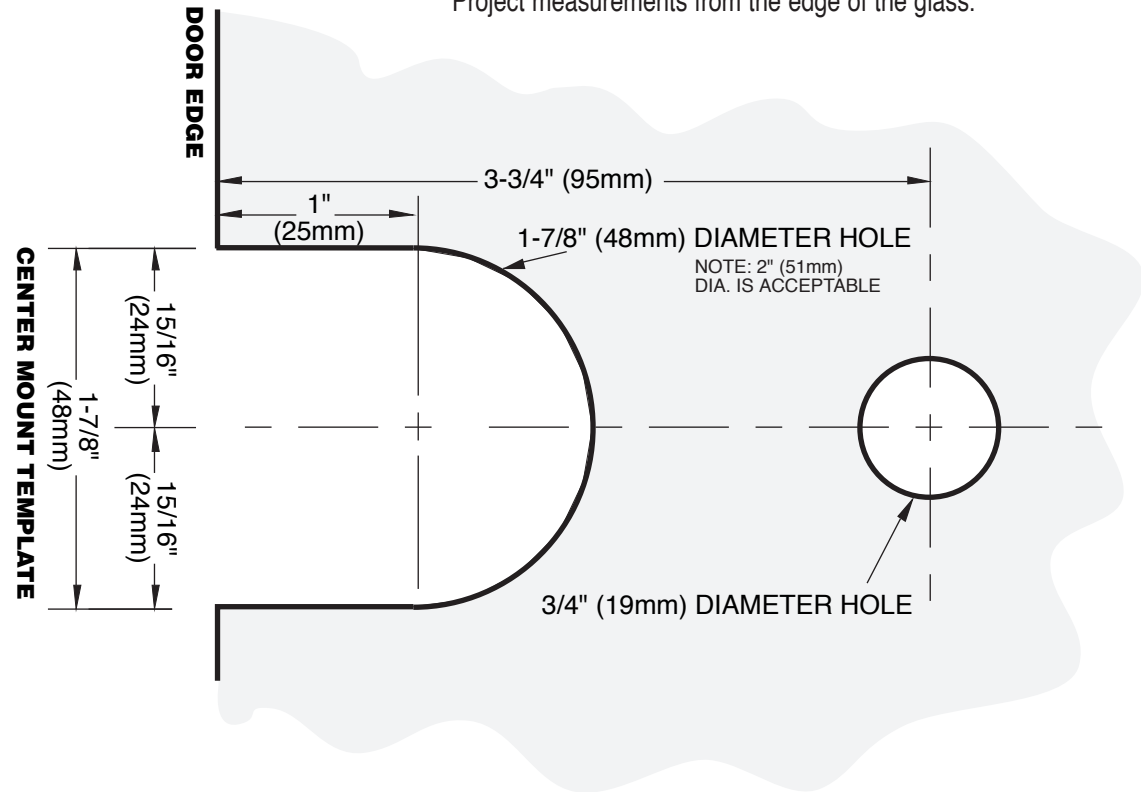


C.R. LAURENCE CO., INC.
PROFESSIONAL QUALITY



IMPORTANT:

Project measurements from the edge of the glass.



CENTER MOUNT TEMPLATE

GRANDE

90° Glass-to-Glass Hinge
 Center Mount Option

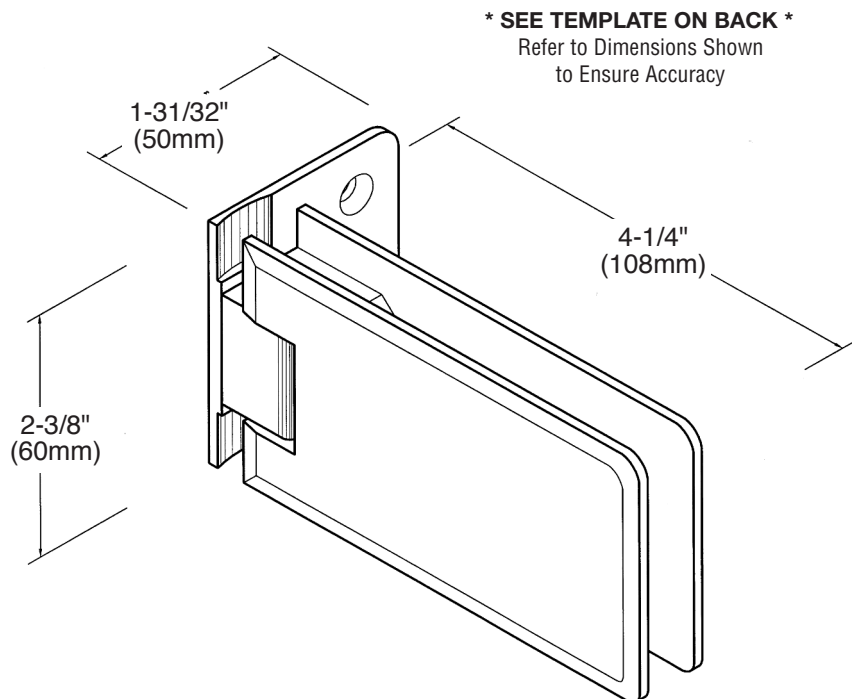
CAT No. GRA090



C.R. Laurence Company has established a Technical Sales Department to assist our customers. If you have any questions concerning shower door hardware or any product from CRL, please contact us at:
(800) 421-6144 in the U.S.,
or (877) 421-6144 from Canada,
and ask for Extension 7740



C.R. LAURENCE CO., INC.
PROFESSIONAL QUALITY



Specifications:

Glass Sizes: 5/16"(8mm) to 3/8"(10mm) thick tempered safety glass

Construction: Solid brass

Closing Type: Self-centering when within 15° of closed position

Cutout and Hole Required

Includes: Gaskets, screws and template

Use of Gaskets:

For 5/16"(8mm) Glass: Use one thick gasket on each side

For 3/8"(10mm) Glass: Use one thin gasket on one side and one thick gasket on the other side

Recommendations:

For public safety, we recommend the use of only tempered safety glass.

Do not use power tools when installing these hinges.

Maintenance Guidelines:

- Never use an abrasive cleaner on the hardware. Many of the components are coated with a clear lacquer that will be irreparably damaged if subjected to harsh, abrasive chemicals. Advise your customer that drying the hardware with a clean, soft towel on a daily basis is the best way to maintain the hardware. If mineral deposits build-up, mix a couple of drops of a mild liquid soap (such as Ivory or a similar product) into a cup of warm water. Using a soft, non-abrasive cloth, clean the hardware. Rinse thoroughly with clean, warm water and dry.

GRANDE

Offset Back Plate – Wall Mount Hinge

Cat No. GRA044

Top and Bottom Corner Mount Option Page 4M-6

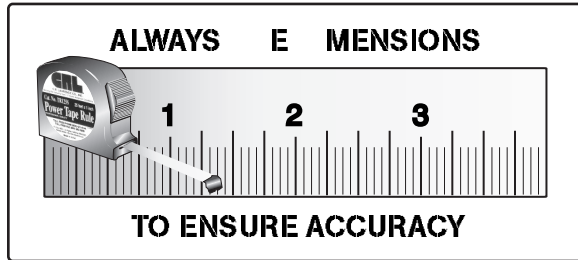
Center Mount Option Page 4M-7

*Maximum Door Capacities	5/16" (8mm) Glass		3/8" (10mm) Glass	
	Weight	Width	Weight	Width
Using 2 Hinges	90 lbs.(41 kg)	31"(787mm)	90 lbs.(41 kg)	31"(787mm)
Using 3 Hinges	134 lbs.(61 kg)	34"(864mm)	134 lbs.(61 kg)	34"(864mm)

***NOTE:** Do not exceed either maximum weight or width when choosing proper quantity of hinges.

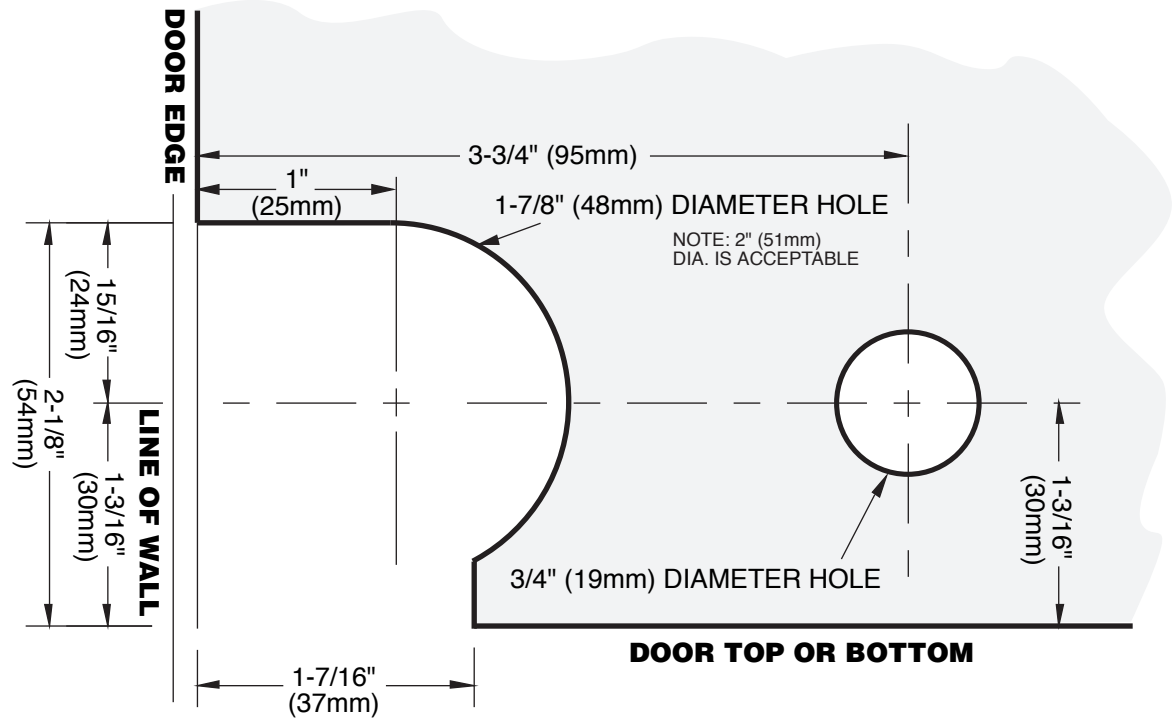


C.R. LAURENCE CO., INC.
PROFESSIONAL QUALITY



IMPORTANT:

Project measurements from the edge of the glass.



TOP OR BOTTOM CORNER MOUNT TEMPLATE

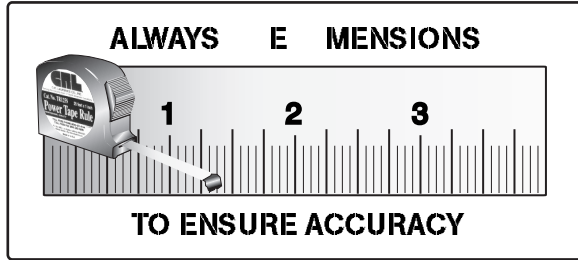
GRANDE

Offset Back Plate – Wall Mount Hinge
 Top and Bottom Corner Mount Option

CAT No. GRA044

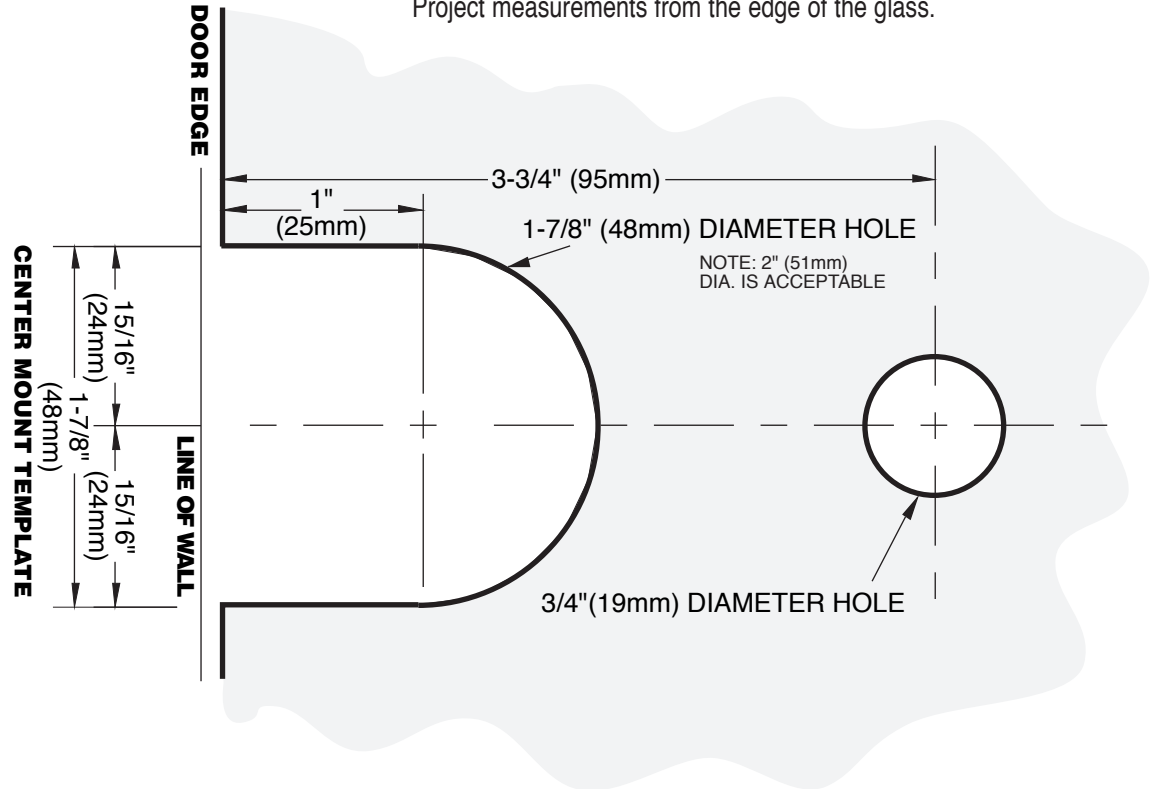


C.R. LAURENCE CO., INC.
PROFESSIONAL QUALITY



IMPORTANT:

Project measurements from the edge of the glass.



CENTER MOUNT TEMPLATE

GRANDE

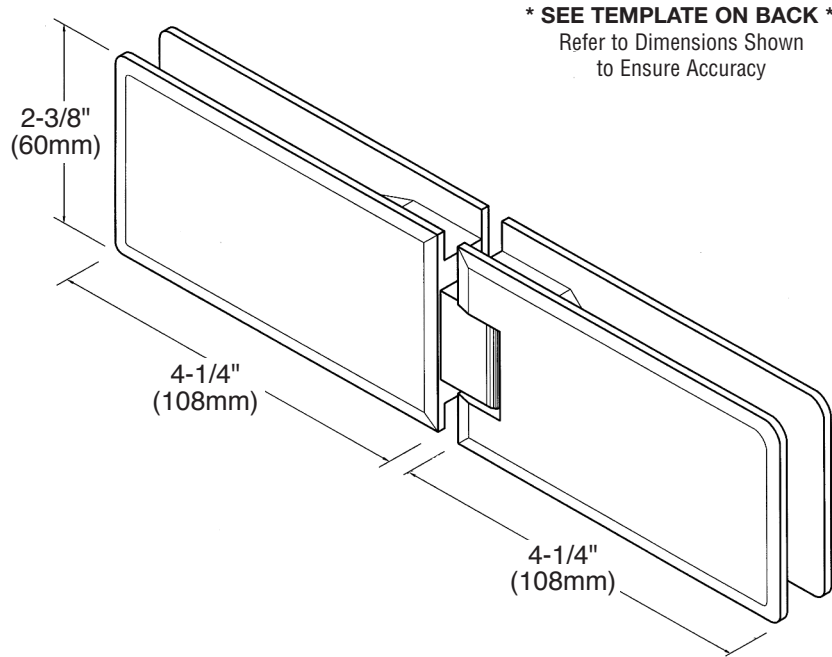
Offset Back Plate – Wall Mount Hinge

Center Mount Option

CAT No. GRA044



C.R. Laurence Company has established a Technical Sales Department to assist our customers. If you have any questions concerning shower door hardware or any product from CRL, please contact us at:
(800) 421-6144 in the U.S.,
or (877) 421-6144 from Canada,
and ask for Extension 7740



GRANDE

180° Glass-to-Glass Hinge

Cat No. GRA180

Top and Bottom Corner Mount OptionPage 4M-10

Center Mount OptionPage 4M-11

*Maximum Door Capacities	5/16" (8mm) Glass		3/8" (10mm) Glass	
	Weight	Width	Weight	Width
Using 2 Hinges	90 lbs.(41 kg)	31"(787mm)	90 lbs.(41 kg)	31"(787mm)
Using 3 Hinges	134 lbs.(61 kg)	34"(864mm)	134 lbs.(61 kg)	34"(864mm)

*NOTE: Do not exceed either maximum weight or width when choosing proper quantity of hinges.

Important Information:

The door and the fixed panel use the same cutout.

Specifications:

Glass Sizes: 5/16"(8mm) to 3/8"(10mm) thick tempered safety glass

Construction: Solid brass

Closing Type: Self-centering when within 15° of closed position

Cutout and Hole Required

Includes: Gaskets, screws and template

Use of Gaskets:

For 5/16"(8mm) Glass: Use one thick gasket on each side

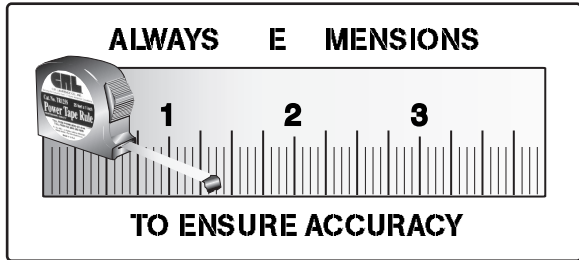
For 3/8"(10mm) Glass: Use one thin gasket on one side and one thick gasket on the other side

Recommendations:

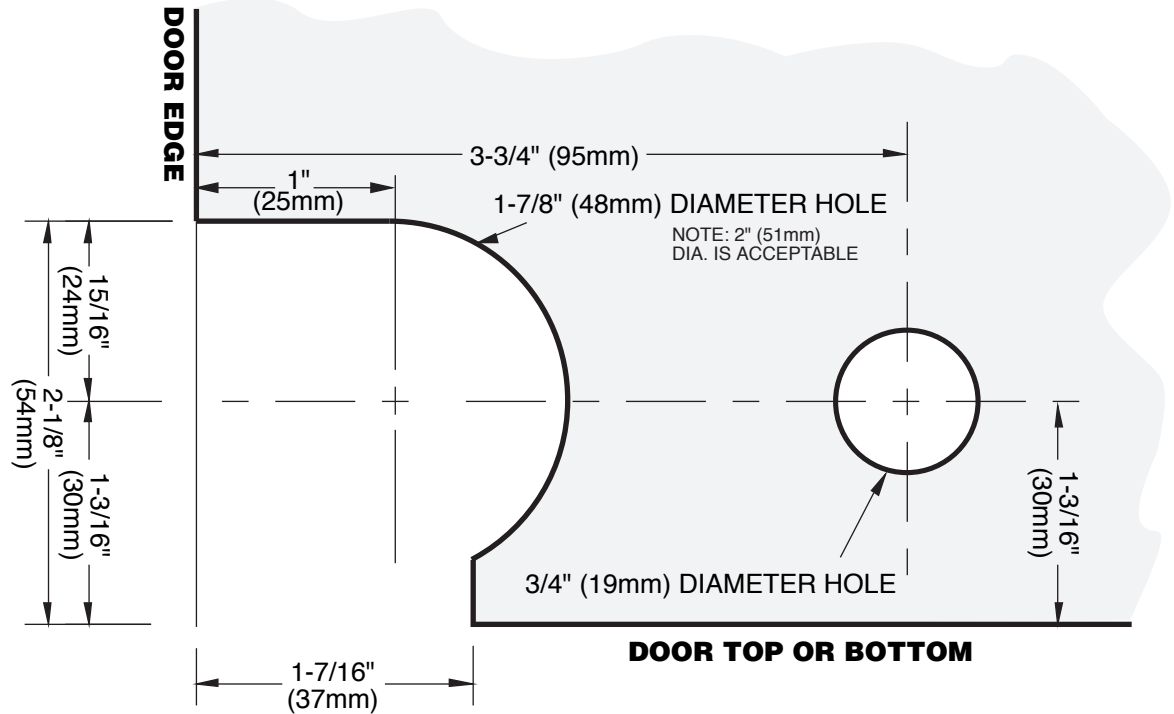
For public safety, we recommend the use of only tempered safety glass.
Do not use power tools when installing these hinges.

Maintenance Guidelines:

- Never use an abrasive cleaner on the hardware. Many of the components are coated with a clear lacquer that will be irreparably damaged if subjected to harsh, abrasive chemicals. Advise your customer that drying the hardware with a clean, soft towel on a daily basis is the best way to maintain the hardware. If mineral deposits build-up, mix a couple of drops of a mild liquid soap (such as Ivory or a similar product) into a cup of warm water. Using a soft, non-abrasive cloth, clean the hardware. Rinse thoroughly with clean, warm water and dry.



IMPORTANT:
 Project measurements from the edge of the glass.



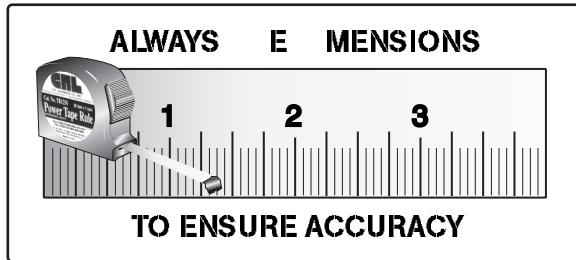
TOP OR BOTTOM CORNER MOUNT TEMPLATE

GRANDE

180° Glass-to-Glass Hinge
 Top and Bottom Corner Mount Option
CAT No. GRA180

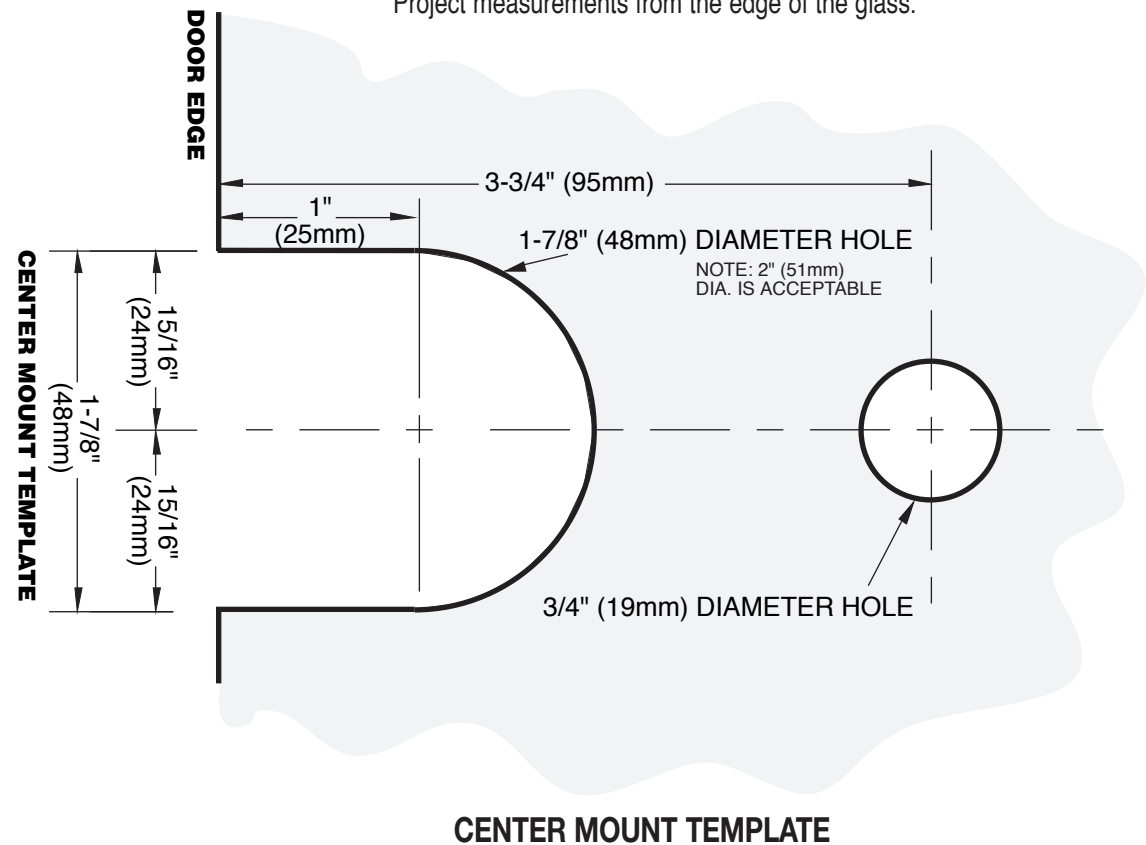


C.R. LAURENCE CO., INC.
PROFESSIONAL QUALITY



IMPORTANT:

Project measurements from the edge of the glass.



GRANDE

180° Glass-to-Glass Hinge
 Center Mount Option

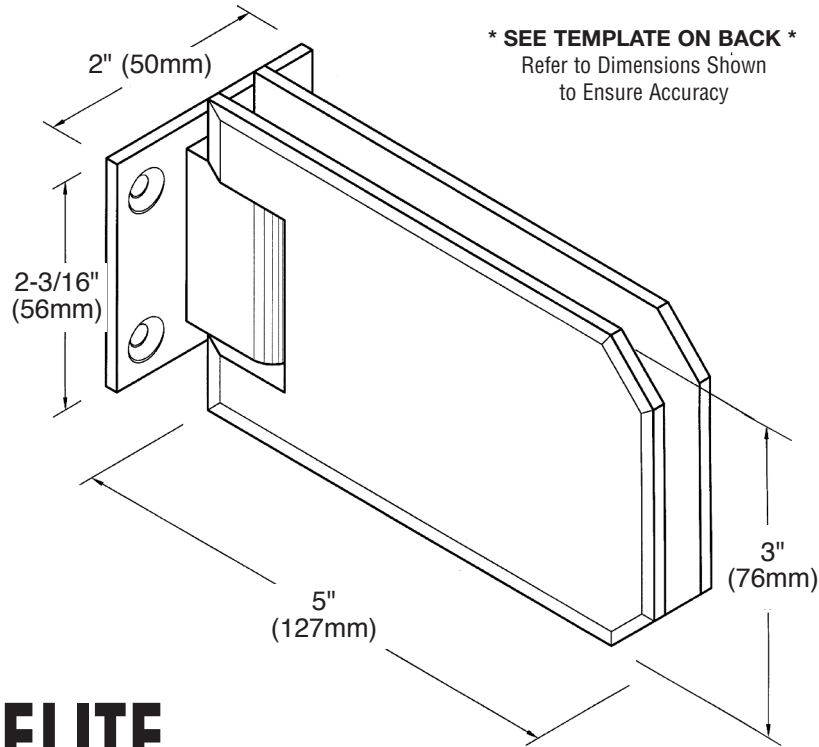
CAT No. GRA180



C.R. Laurence Company has established a Technical Sales Department to assist our customers. If you have any questions concerning shower door hardware or any product from CRL, please contact us at:
(800) 421-6144 in the U.S.,
or (877) 421-6144 from Canada,
and ask for Extension 7740



C.R. LAURENCE CO., INC.
PROFESSIONAL QUALITY



Important Information:

This hinge contains a dual degree pivot pin. The pivot pin is set for normal door closing position. You have the option of altering the closing position of the door 5 degrees inward by utilizing the opposite side of the pivot pin, which has been pre-machined (see Section 3 of Cat. No. SDT20 Frameless Shower Door Guide for this procedure). Special order custom pivot pins are available (Cat.No. GENP1N) that can be machined at any angle up to 45 degrees.

Specifications:

Glass Sizes: 3/8" (10mm) to 1/2" (12mm) thick tempered safety glass
Construction: Solid brass
Closing Type: Self-centering when within 15° of closed position
Cutout and Hole Required
Includes: Gaskets, screws and template

Use of Gaskets:

For 3/8"(10mm) Glass: Use one thick gasket on each side
For 1/2"(12mm) Glass: Use one thin gasket on each side

Recommendations:

For public safety, we recommend the use of only tempered safety glass.
 Do not use power tools when installing these hinges.

Maintenance Guidelines:

- Our hinges are greased at the factory for quiet and trouble-free operation. If there is any squeaking that occurs after installation, put a drop of "3 in 1 Oil" (also known as "household oil") on the white nylon washer that the hinge body pivots on. This washer is the component that acts as a buffer, so the body of the hinge doesn't pivot directly on the brass center block. This solution doesn't require the disassembly of the hinge.
Note: Do not use spray lubricant on these hinges. If the hinge has been disassembled, upon re-assembly, use white lithium grease to lubricate the interior mechanism.
- Never use an abrasive cleaner on the hardware. Many of the components are coated with a clear lacquer that will be irreparably damaged if subjected to harsh, abrasive chemicals. Advise your customer that drying the hardware with a clean, soft towel on a daily basis is the best way to maintain the hardware. If mineral deposits build-up, mix a couple of drops of a mild liquid soap (such as Ivory or a similar product) into a cup of warm water. Using a soft, non-abrasive cloth, clean the hardware. Rinse thoroughly with clean, warm water and dry.

ELITE

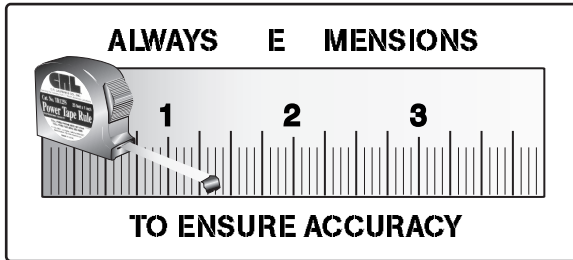
Self-Centering Wall Mount Hinge

Cat No. ELT074

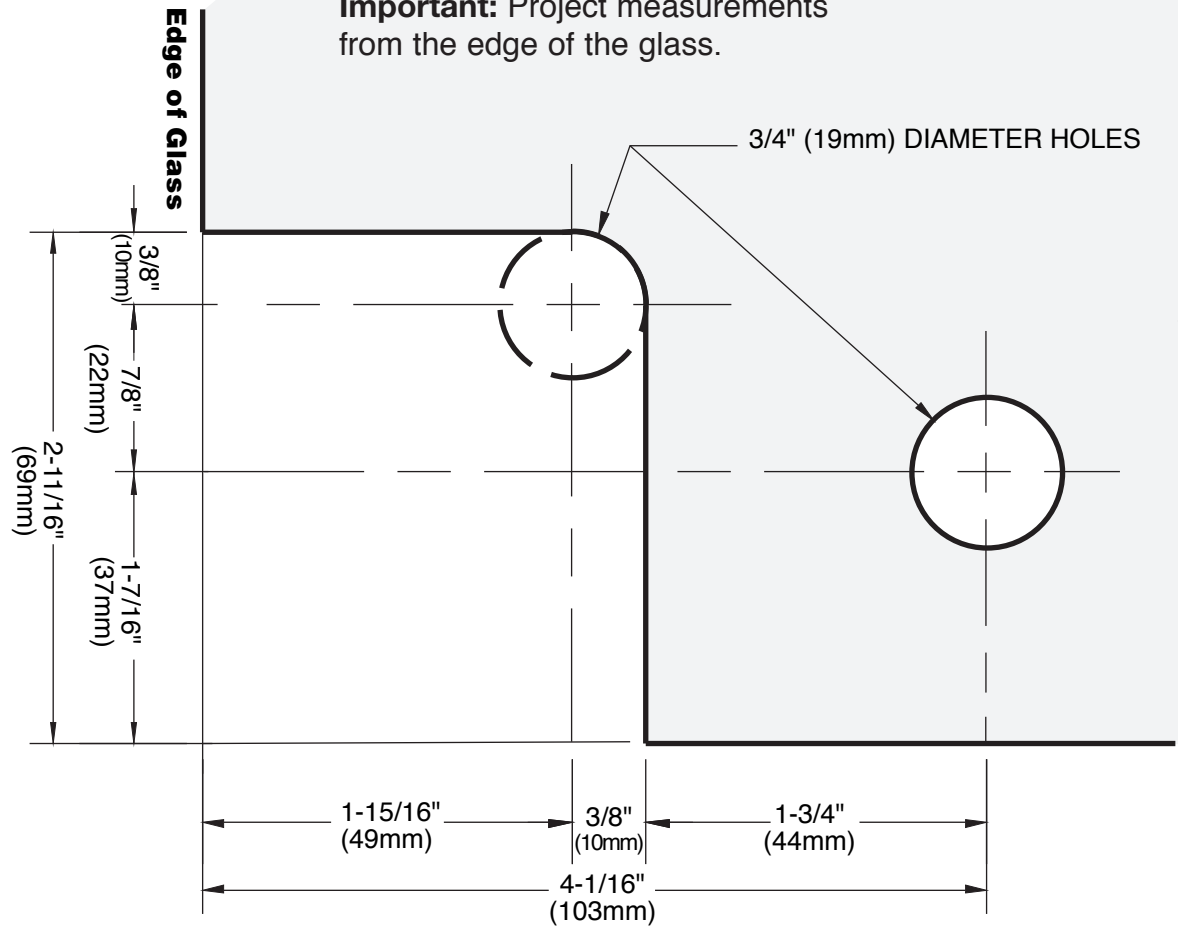
Top and Bottom Corner Mount Option (1/32" (1mm) to 3/16" (5mm) Clearance)... Page 4N-2
 Top and Bottom Corner Mount Option (5/32" (4mm) to 11/32" (8.5mm) Clearance). Page 4N-3
 Center Mount Option (1/32" (1mm) to 3/16" (5mm) Clearance) Page 4N-4
 Center Mount Option (5/32" (4mm) to 11/32" (8.5mm) Clearance) Page 4N-5

*Maximum Door Capacities	3/8" (10mm) Glass		1/2" (12mm) Glass	
	Weight	Width	Weight	Width
Using 2 Hinges	95 lbs.(43 kg)	34"(864mm)	95 lbs.(43 kg)	34"(864mm)
Using 3 Hinges	140 lbs.(64 kg)	38"(965mm)	140 lbs.(64 kg)	38"(965mm)

*NOTE: Do not exceed either maximum weight or width when choosing proper quantity of hinges.



Important: Project measurements from the edge of the glass.



ELITE

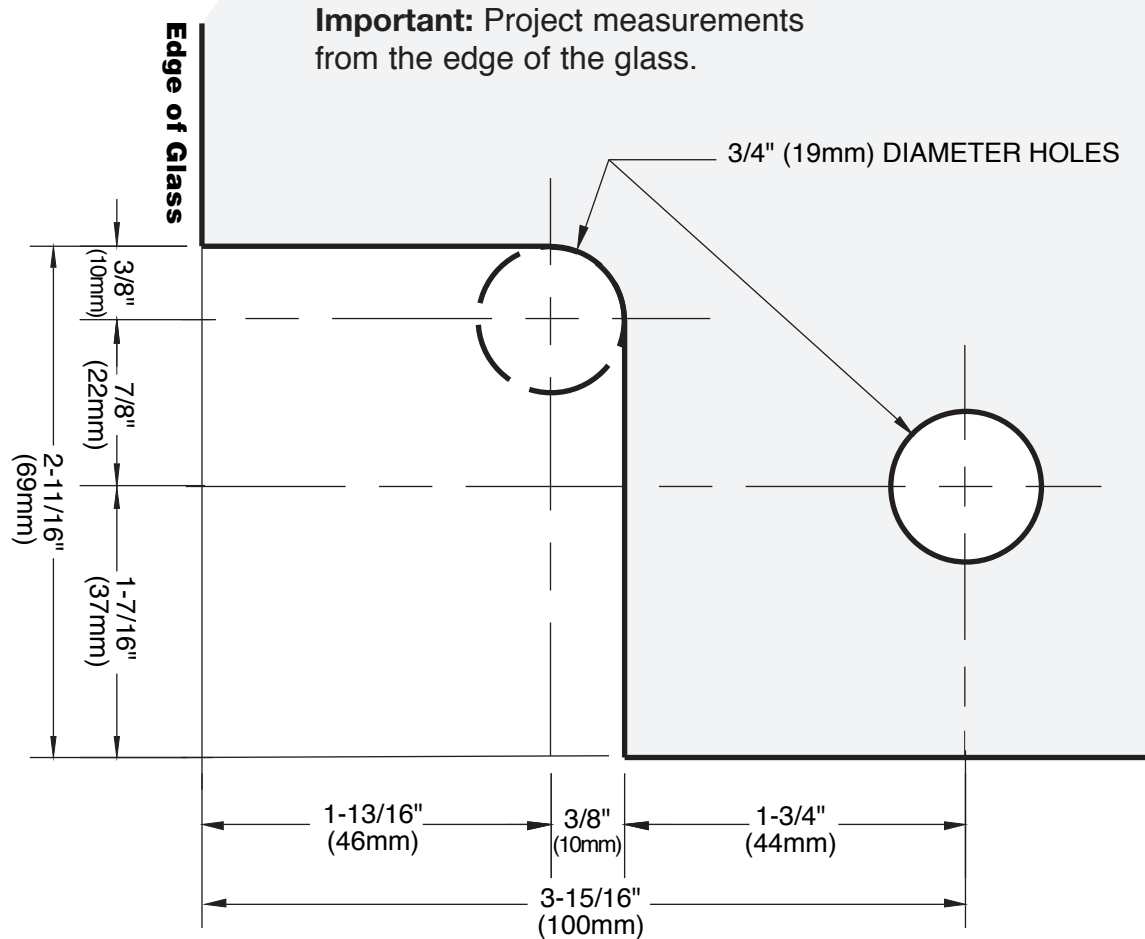
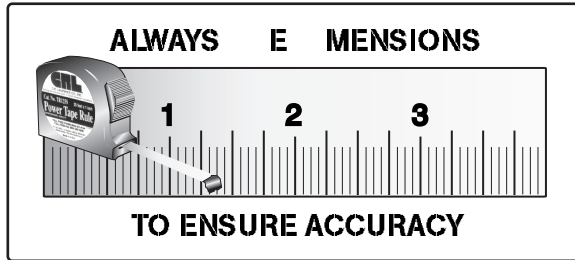
Self-Centering Wall Mount Hinge

Top and Bottom Corner Mount Option – Leaving Space of 1/32" (1mm) to 3/16" (5mm) from Wall

CAT No. ELT074



C.R. LAURENCE CO., INC.
PROFESSIONAL QUALITY



ELITE

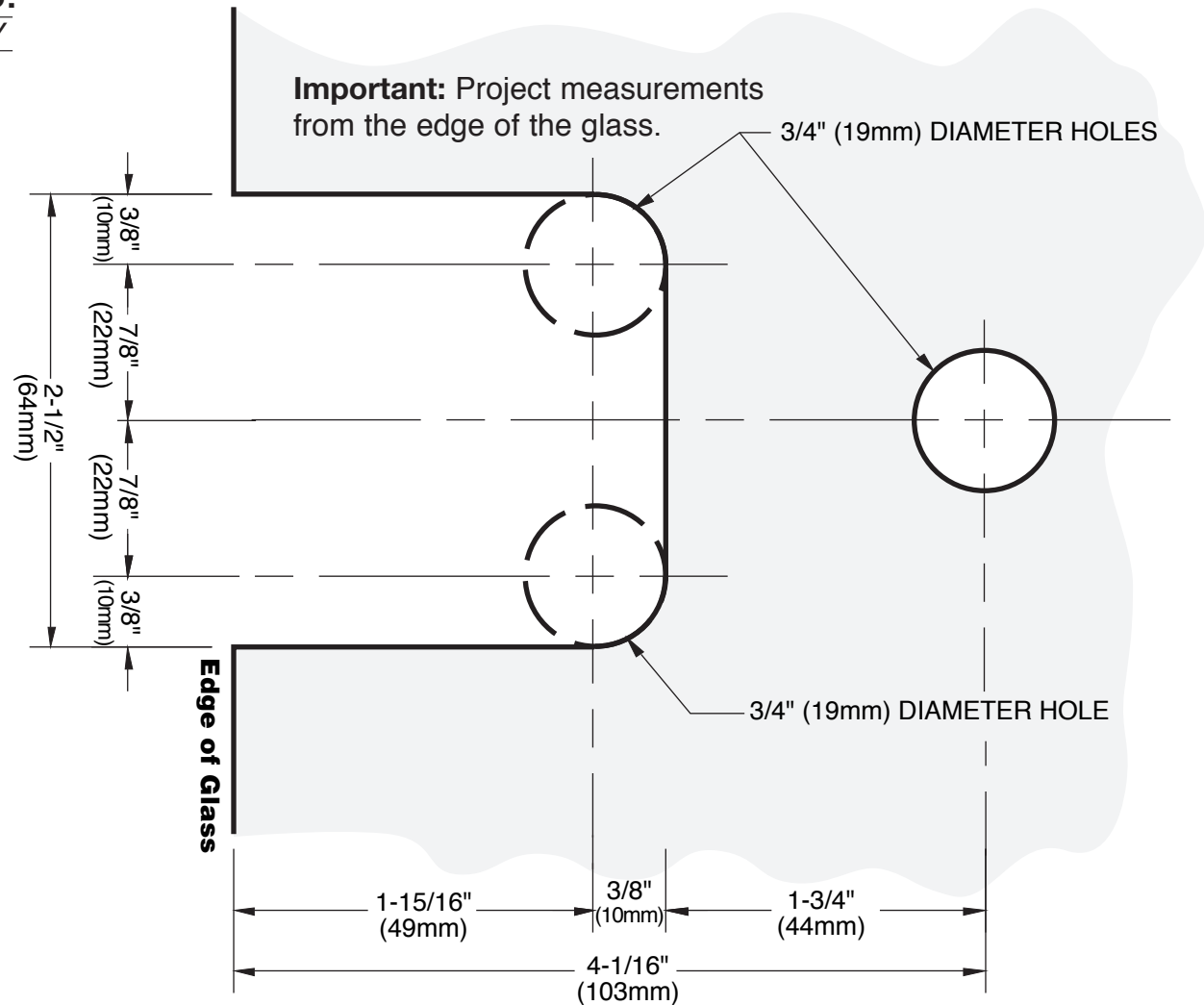
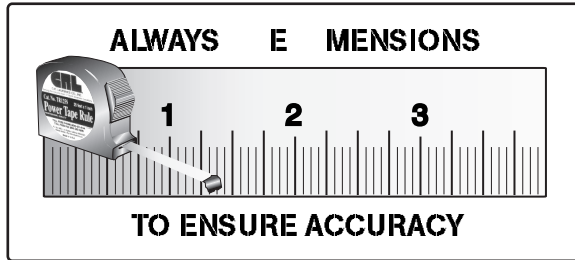
Self-Centering Wall Mount Hinge

Top and Bottom Corner Mount Option – Leaving Space of 5/32" (4mm) to 1 1/32" (8.5mm) from Wall

CAT No. ELT074



C.R. LAURENCE CO., INC.
PROFESSIONAL QUALITY



ELITE

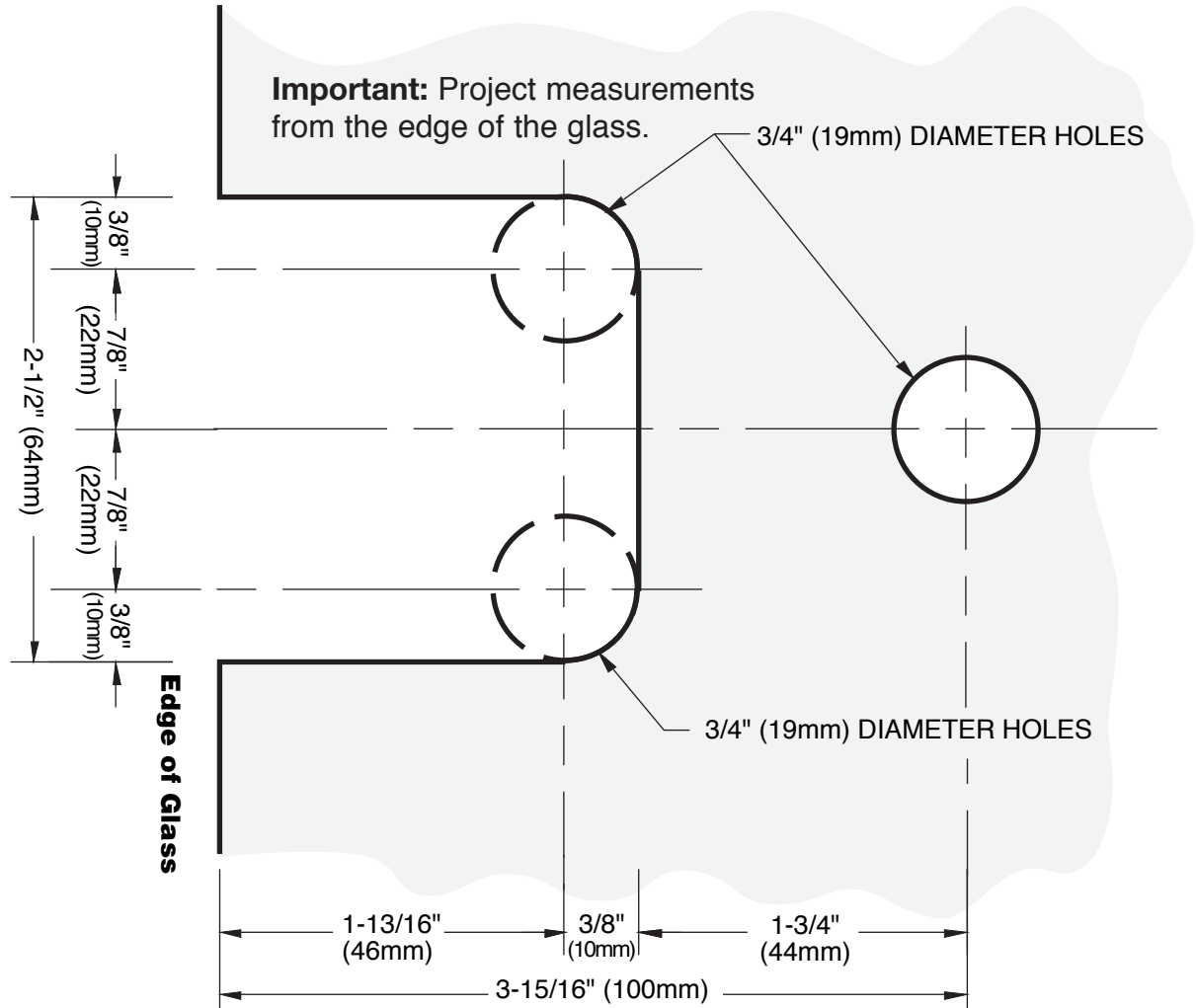
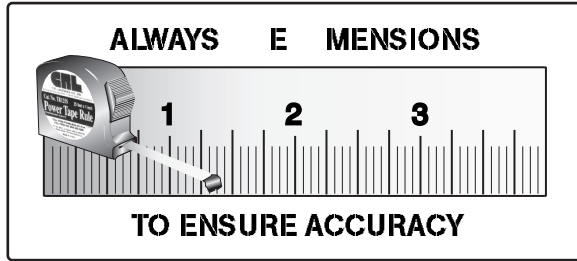
Self-Centering Wall Mount Hinge

Center Mount Option – Leaving Space of 1/32" (1mm) to 3/16" (5mm) from Wall

CAT No. ELT074



C.R. LAURENCE CO., INC.
PROFESSIONAL QUALITY



ELITE

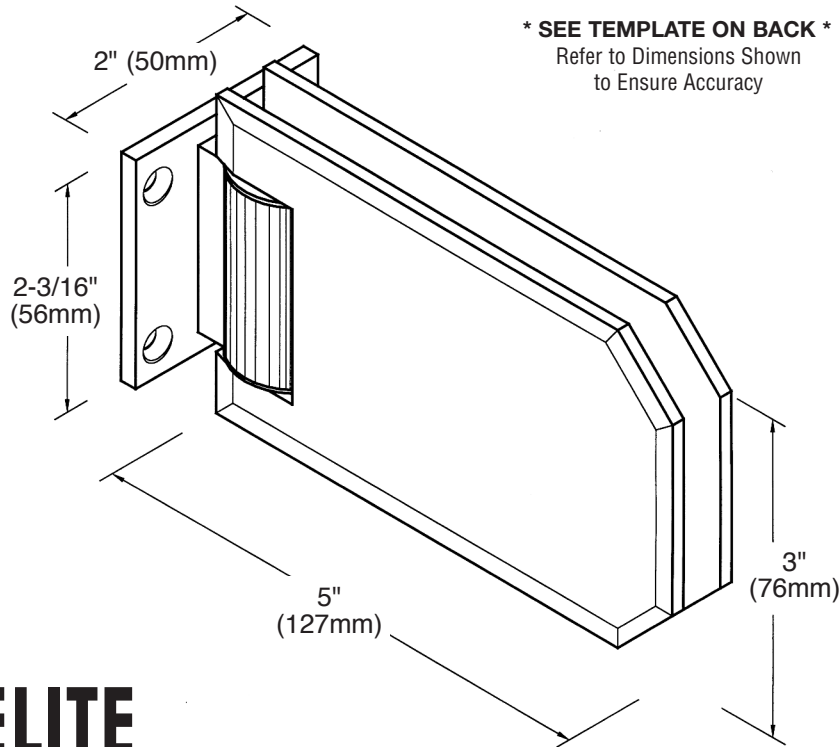
Self-Centering Wall Mount Hinge

Center Mount Option – Leaving space of 5/32" (4mm) to 1 1/32" (8.5mm) from wall

CAT No. ELT074



C.R. Laurence Company has established a Technical Sales Department to assist our customers. If you have any questions concerning shower door hardware or any product from CRL, please contact us at:
(800) 421-6144 in the U.S.,
or (877) 421-6144 from Canada,
and ask for Extension 7740



ELITE

Self-Closing Wall Mount Hinge

CAT No. ESC374

Top and Bottom Corner Mount Option (1/32" (1mm) to 3/16" (5mm) Clearance)... Page 4N-8
 Top and Bottom Corner Mount Option (5/32" (4mm) to 11/32" (8.5mm) Clearance).. Page 4N-9
 Center Mount Option (1/32" (1mm) to 3/16" (5mm) Clearance)..... Page 4N-10
 Center Mount Option (5/32" (4mm) to 11/32" (8.5mm) Clearance)..... Page 4N-11

*Maximum Door Capacities	3/8" (10mm) Glass		1/2" (12mm) Glass	
	Weight	Width	Weight	Width
Using 2 Hinges	95 lbs.(43 kg)	34"(864mm)	95 lbs.(43 kg)	34"(864mm)
Using 3 Hinges	140 lbs.(64 kg)	38"(965mm)	140 lbs.(64 kg)	38"(965mm)

*NOTE: Do not exceed either maximum weight or width when choosing proper quantity of hinges.

Important Information:

The Elite Self-Closing Hinge is spring loaded and will return the door to 0° from any position.

Specifications:

Glass Sizes: 3/8" (10mm) to 1/2" (12mm) thick tempered safety glass
Construction: Solid brass
Closing Type: Self-closing from any position
Cutout and Hole Required
Includes: Gaskets, screws and template

Use of Gaskets:

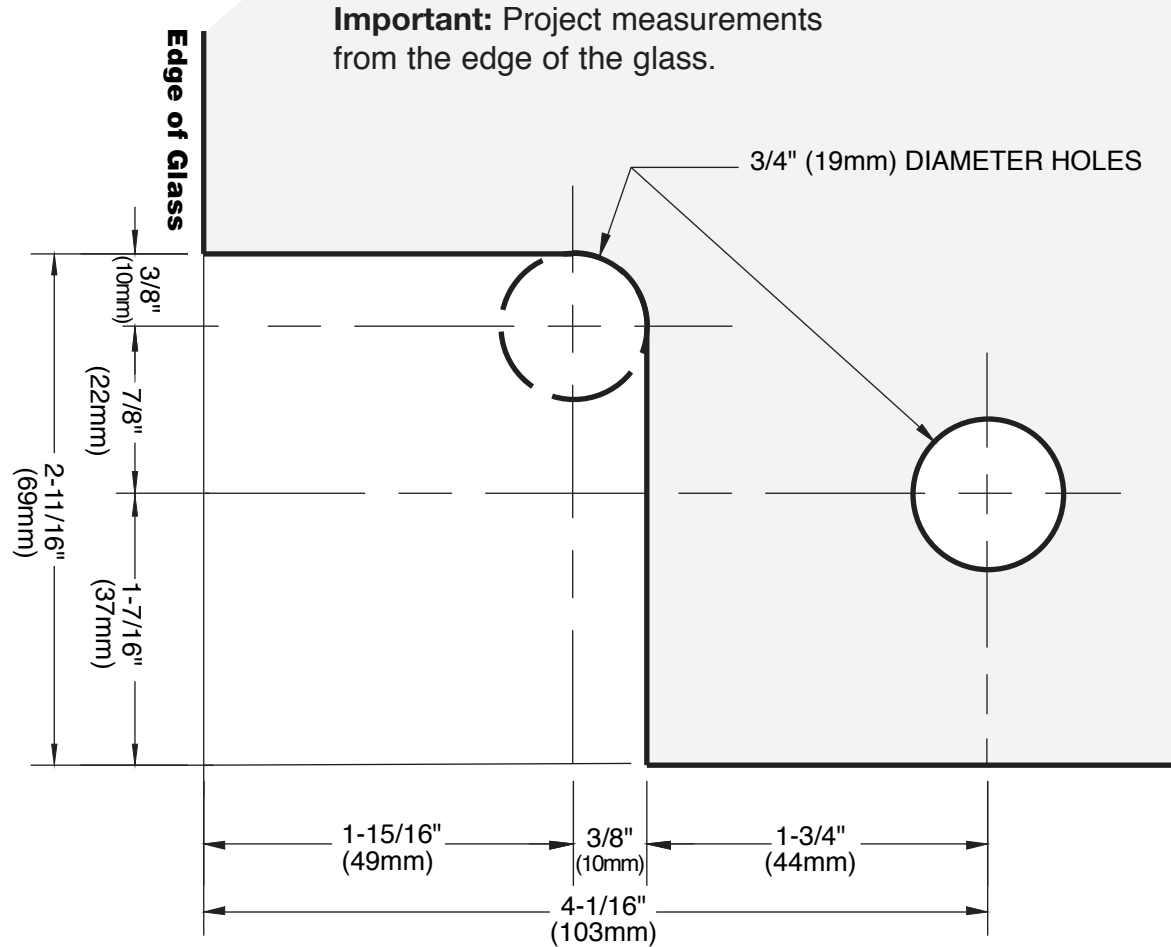
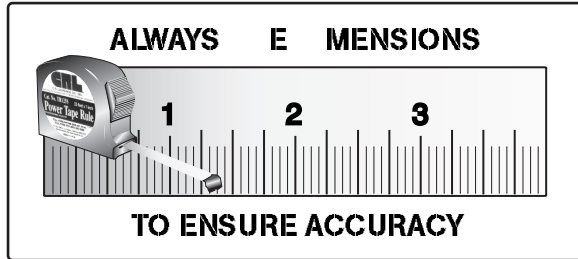
For 3/8"(10mm) Glass: Use one thick gasket on each side
For 1/2"(12mm) Glass: Use one thin gasket on each side

Recommendations:

For public safety, we recommend the use of only tempered safety glass. Do not use power tools when installing these hinges.

Maintenance Guidelines:

- Our hinges are greased at the factory for quiet and trouble-free operation. If there is any squeaking that occurs after installation, put a drop of "3 in 1 Oil" (also known as "household oil") on the white nylon washer that the hinge body pivots on. This washer is the component that acts as a buffer, so the body of the hinge doesn't pivot directly on the brass center block. This solution doesn't require the disassembly of the hinge.
Note: Do not use spray lubricant on these hinges.
- Never use an abrasive cleaner on the hardware. Many of the components are coated with a clear lacquer that will be irreparably damaged if subjected to harsh, abrasive chemicals. Advise your customer that drying the hardware with a clean, soft towel on a daily basis is the best way to maintain the hardware. If mineral deposits build-up, mix a couple of drops of a mild liquid soap (such as Ivory or a similar product) into a cup of warm water. Using a soft, non-abrasive cloth, clean the hardware. Rinse thoroughly with clean, warm water and dry.



ELITE

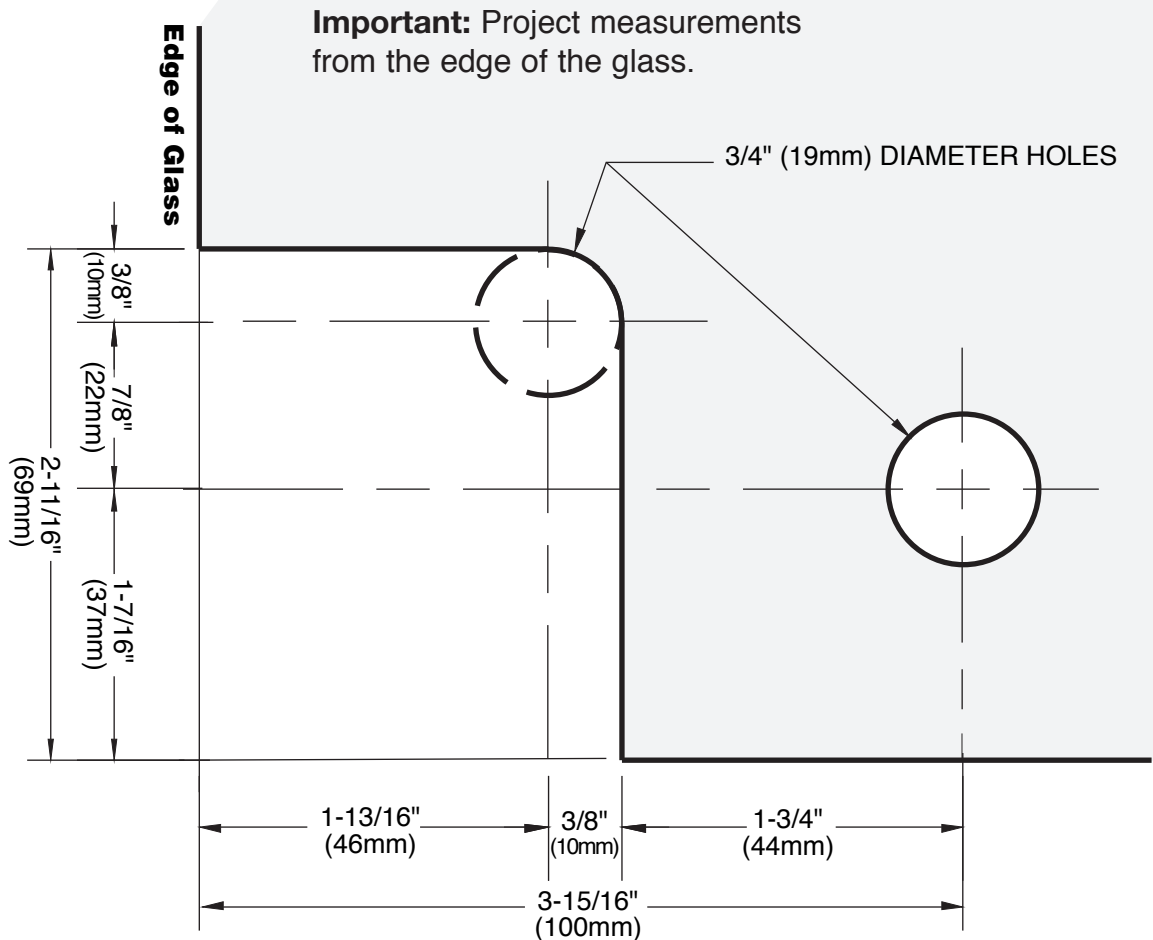
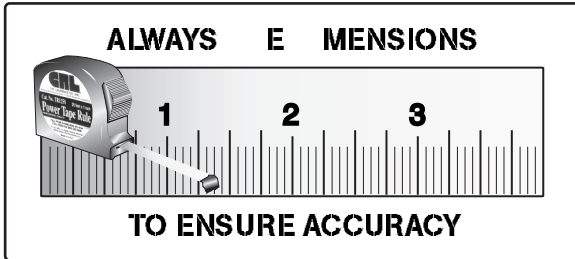
Self-Closing Wall Mount Hinge

Top and Bottom Corner Mount Option – Leaving Space of 1/32" (1mm) to 3/16" (5mm) from Wall

CAT No. ESC374



C.R. LAURENCE CO., INC.
PROFESSIONAL QUALITY



ELITE

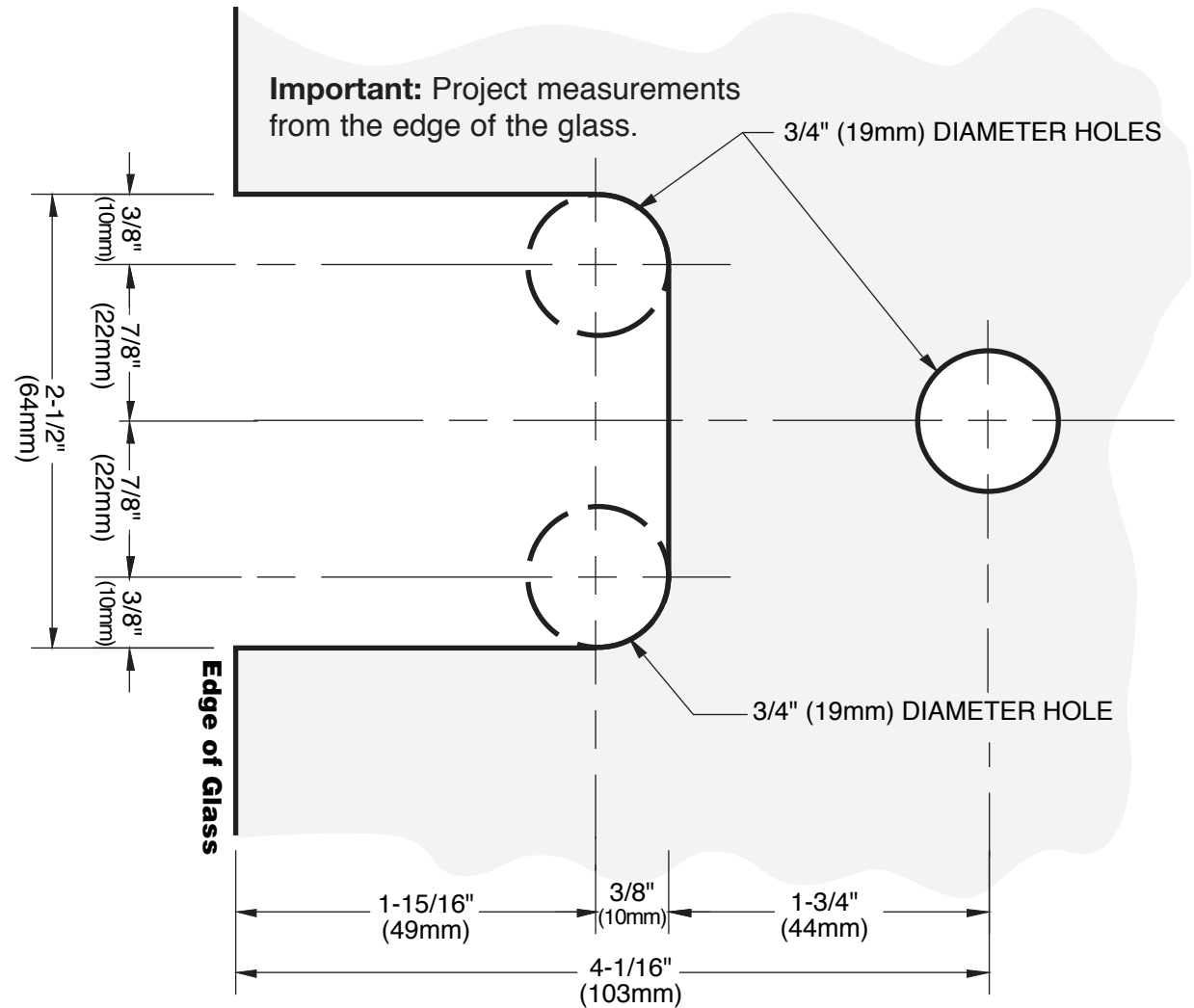
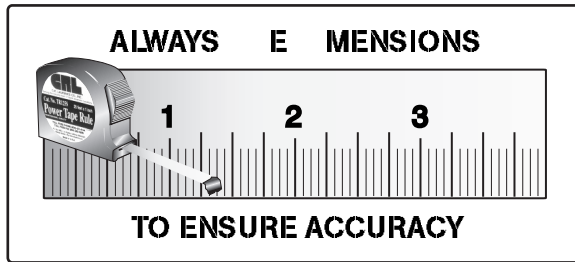
Self-Closing Wall Mount Hinge

Top and Bottom Corner Mount – Leaving Space of 5/32" (4mm) to 1 1/32" (8.5mm) from Wall

CAT No. ESC374



C.R. LAURENCE CO., INC.
PROFESSIONAL QUALITY



ELITE

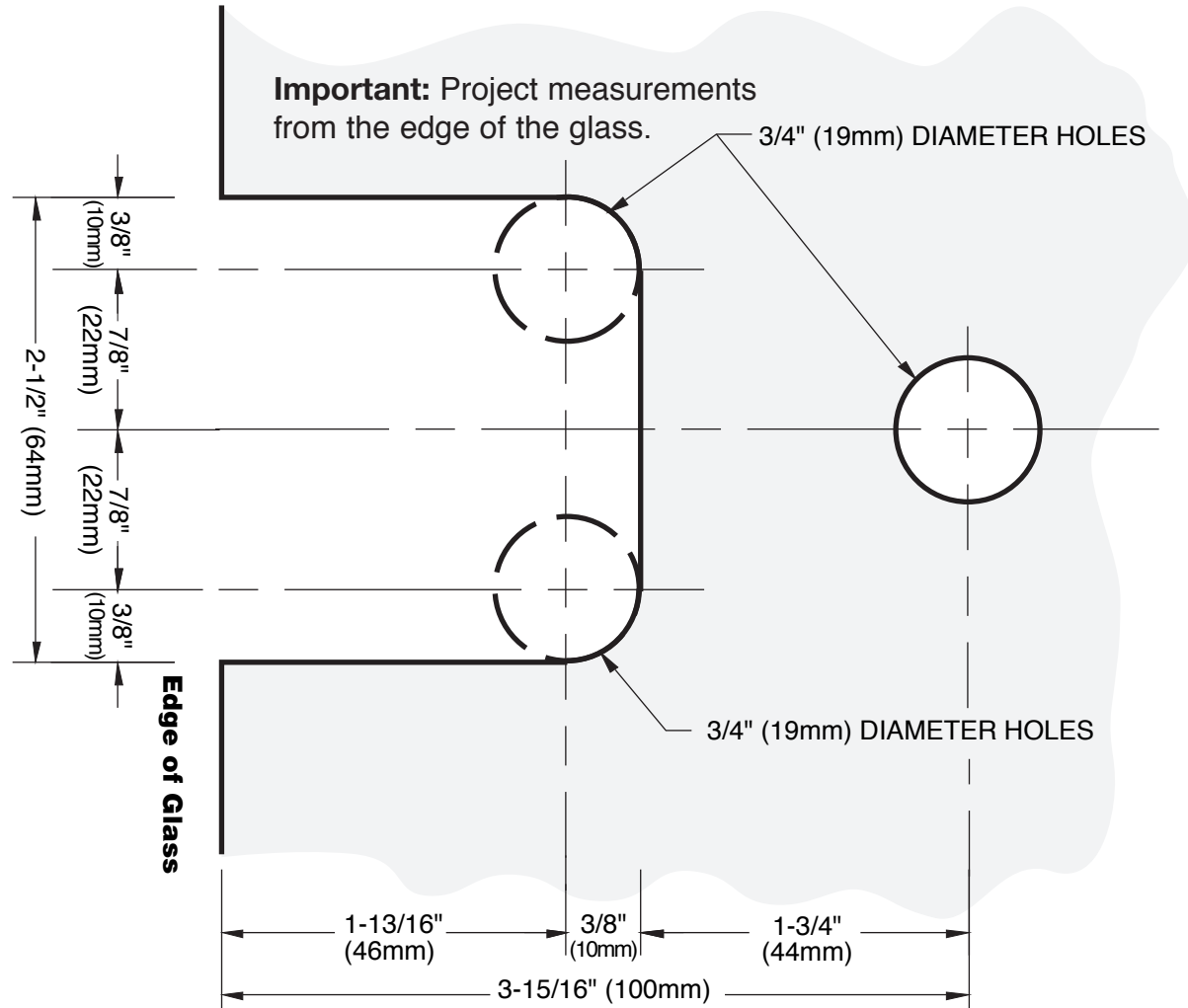
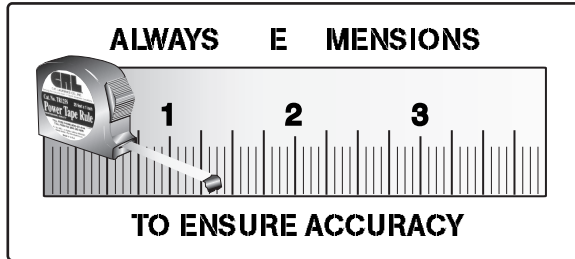
Self-Closing Wall Mount Hinge

Center Mount Option – Leaving Space of 1/32" (1mm) to 3/16" (5mm) from Wall

CAT No. ESC374



C.R. LAURENCE CO., INC.
PROFESSIONAL QUALITY



ELITE

Self-Closing Wall Mount Hinge

Center Mount Option – Leaving Space of 5/32" (1mm) to 11/32" (5mm) from Wall

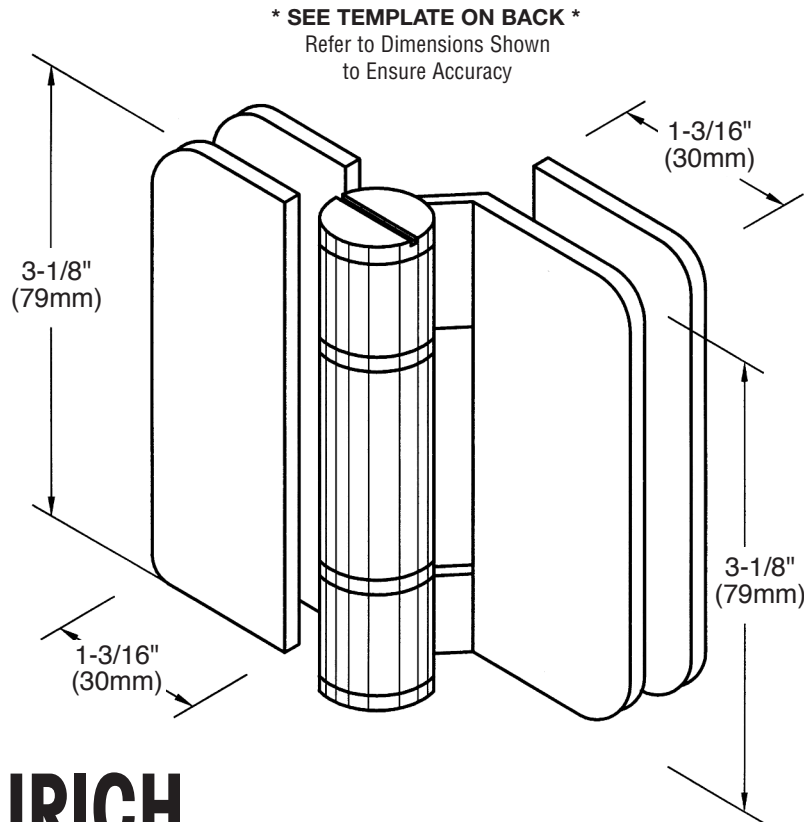
CAT No. ESC374



C.R. Laurence Company has established a Technical Sales Department to assist our customers. If you have any questions concerning shower door hardware or any product from CRL, please contact us at:
(800) 421-6144 in the U.S.,
or (877) 421-6144 from Canada,
and ask for Extension 7740



C.R. LAURENCE CO., INC.
PROFESSIONAL QUALITY



Specifications:

Glass Sizes: 5/16" (8mm) to 3/8" (10mm) thick tempered safety glass

Construction: Stainless steel or solid brass

Closing Type: Free-swinging

Two Holes Required (No Cutout)

Includes: Gaskets, Screws and Template

Use of Gaskets:

For 5/16"(8mm) Glass: Use one thick gasket on each side

For 3/8"(10mm) Glass: Use one thin gasket on each side

Recommendations:

For public safety, we recommend the use of only tempered safety glass.
 Do not use power tools when installing these hinges.

Maintenance Guidelines:

- Never use an abrasive cleaner on the hardware. Many of the components are coated with a clear lacquer that will be irreparably damaged if subjected to harsh, abrasive chemicals. Advise your customer that drying the hardware with a clean, soft towel on a daily basis is the best way to maintain the hardware. If mineral deposits build-up, mix a couple of drops of a mild liquid soap (such as Ivory or a similar product) into a cup of warm water. Using a soft, non-abrasive cloth, clean the hardware. Rinse thoroughly with clean, warm water and dry.

ZURICH

180° Glass-to-Glass Outswing
 or Bi-Fold Inswing Hinge

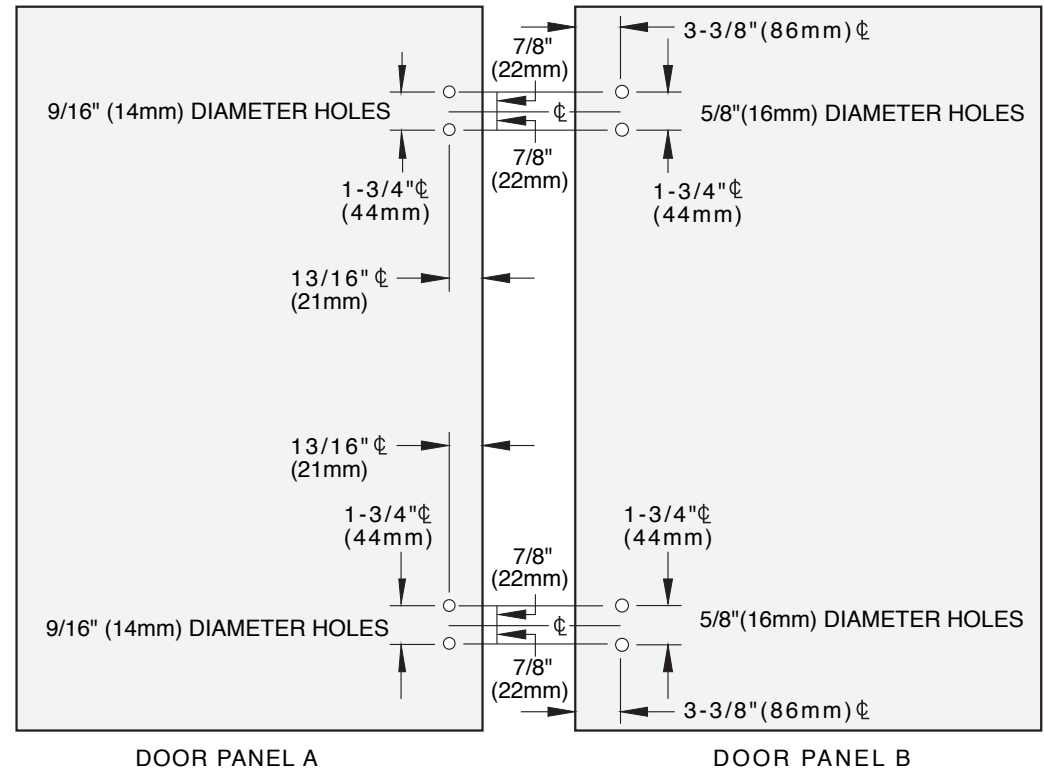
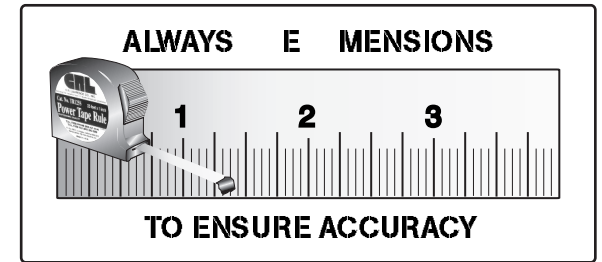
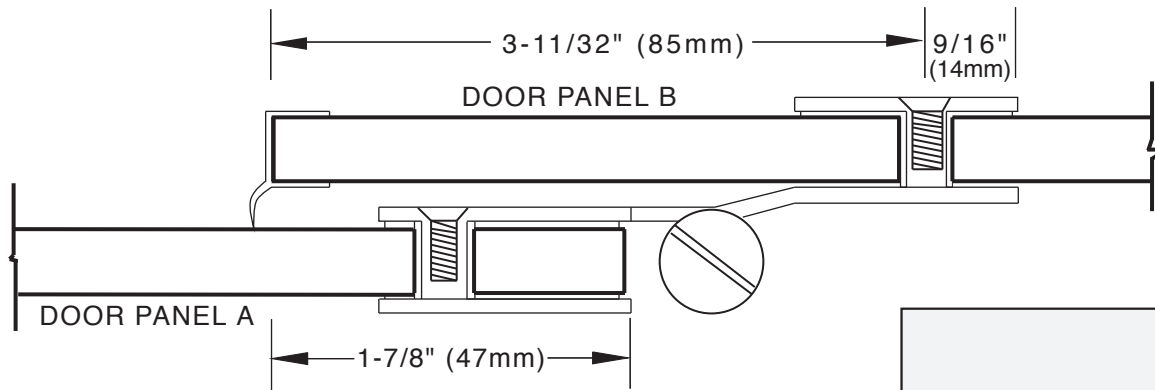
CAT No. ZUR01

*Maximum Door Capacities	5/16" (8mm) Glass		3/8" (10mm) Glass	
	Weight	Width	Weight	Width
Using 2 Hinges	100 lbs.(45 kg)	36"(914mm)	100 lbs.(45 kg)	36"(914mm)
Using 3 Hinges	150 lbs.(68 kg)	40"(1016mm)	150 lbs.(68 kg)	40"(1016mm)

*NOTE: Do not exceed either maximum weight or width when choosing proper quantity of hinges.



C.R. LAURENCE CO., INC.
 PROFESSIONAL QUALITY



ZURICH

180° Glass-to-Glass Outswing
 or Bi-Fold Inswing Hinge

CAT No. ZUR01



C.R. LAURENCE CO., INC.
PROFESSIONAL QUALITY

Specifications:

Glass Sizes: 5/16" (8mm) to 3/8" (10mm) thick tempered safety glass

Construction: Stainless steel or solid brass

Closing Type: Free-swinging

Two Holes Required (No Cutout)

Includes: Gaskets, Screws and Template

Use of Gaskets:

For 5/16" (8mm) Glass: Use one thick gasket on each side

For 3/8" (10mm) Glass: Use one thin gasket on each side

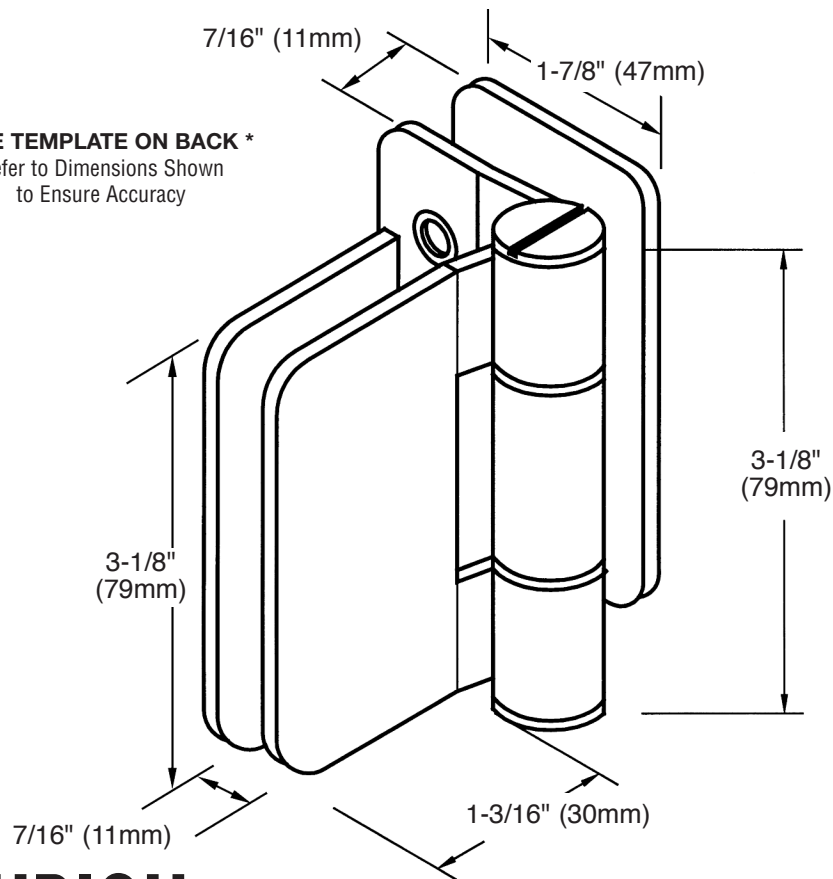
Recommendations:

For public safety, we recommend the use of only tempered safety glass. Do not use power tools when installing these hinges.

Maintenance Guidelines:

- Never use an abrasive cleaner on the hardware. Many of the components are coated with a clear lacquer that will be irreparably damaged if subjected to harsh, abrasive chemicals. Advise your customer that drying the hardware with a clean, soft towel on a daily basis is the best way to maintain the hardware. If mineral deposits build-up, mix a couple of drops of a mild liquid soap (such as Ivory or a similar product) into a cup of warm water. Using a soft, non-abrasive cloth, clean the hardware. Rinse thoroughly with clean, warm water and dry.

* SEE TEMPLATE ON BACK *
Refer to Dimensions Shown
to Ensure Accuracy



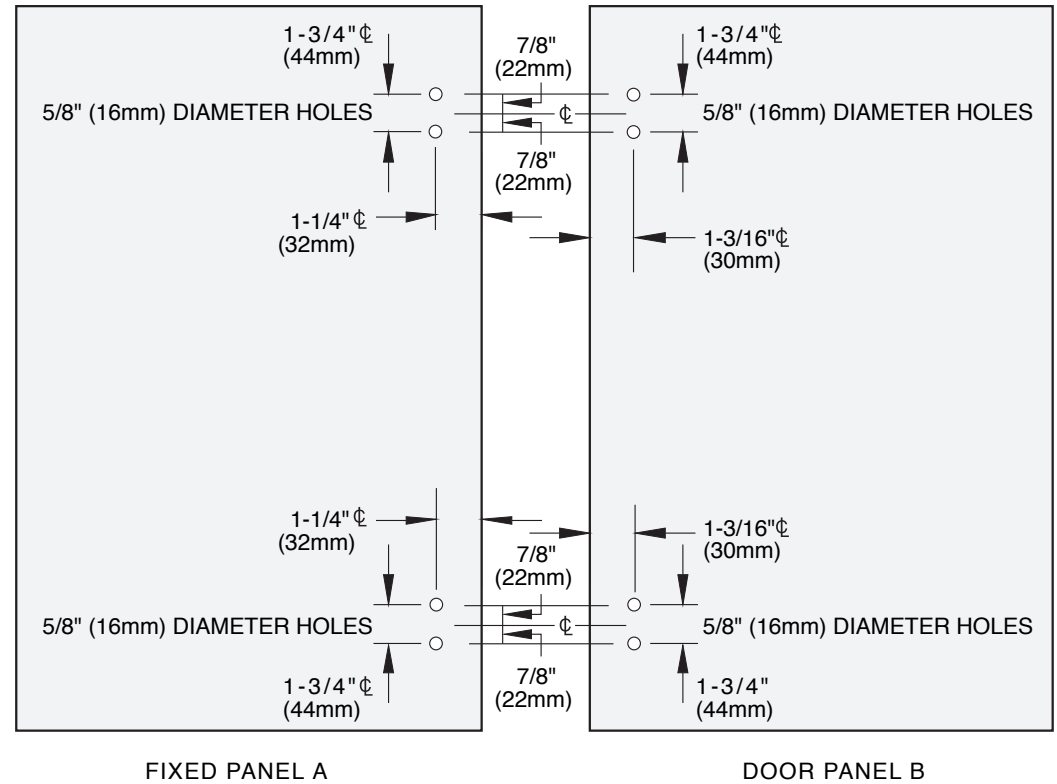
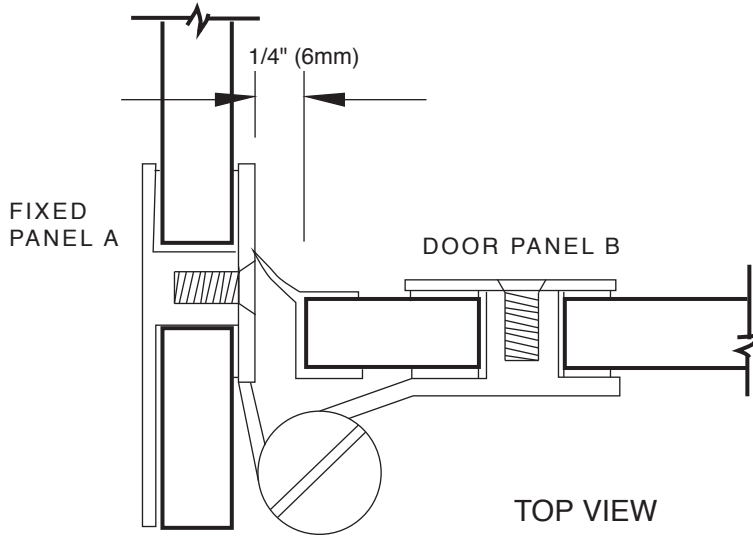
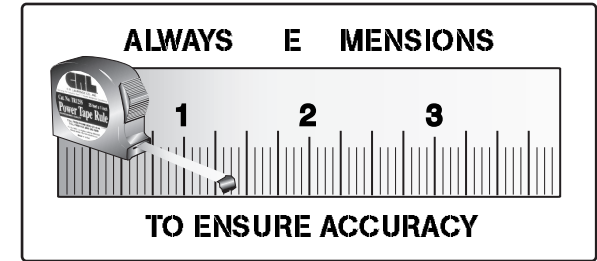
ZURICH

Glass-to-Glass Outswing Hinge

CAT No. ZUR06

*Maximum Door Capacities	5/16" (8mm) Glass		3/8" (10mm) Glass	
	Weight	Width	Weight	Width
Using 2 Hinges	100 lbs.(45 kg)	36"(914mm)	100 lbs.(45 kg)	36"(914mm)
Using 3 Hinges	150 lbs.(68 kg)	40"(1016mm)	150 lbs.(68 kg)	40"(1016mm)

*NOTE: Do not exceed either maximum weight or width when choosing proper quantity of hinges.



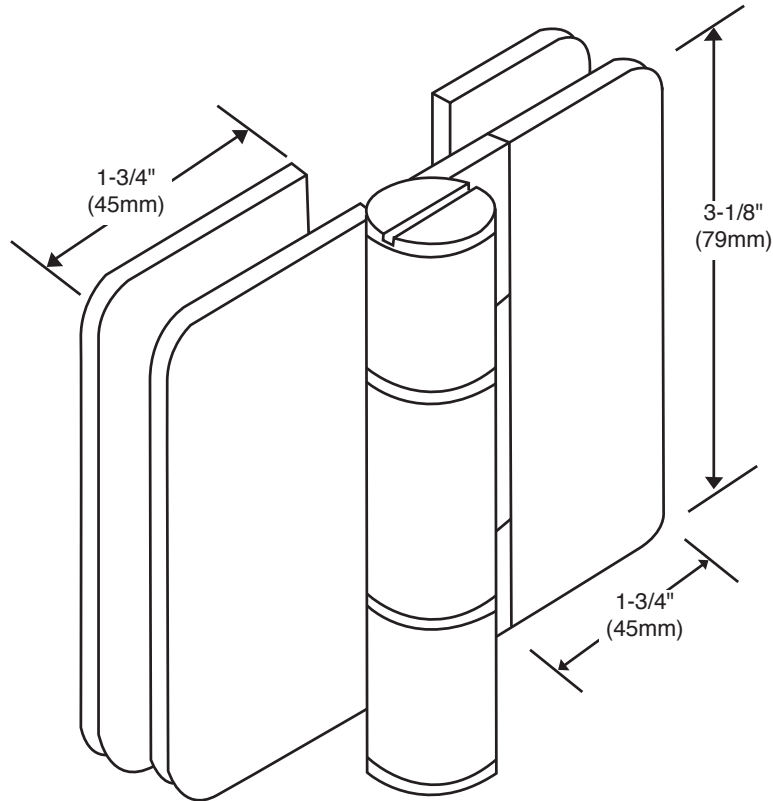
ZURICH

Glass-to-Glass Outswing Hinge

CAT No. ZUR06



C.R. LAURENCE CO., INC.
PROFESSIONAL QUALITY



Specifications:

Glass Sizes: 5/16" (8mm) to 3/8" (10mm) thick tempered safety glass

Construction: Stainless steel or solid brass

Closing Type: Free-swinging

Two Holes Required (No Cutout)

Includes: Gaskets, screws and template

Use of Gaskets:

For 5/16" (8mm) Glass: Use one thick gasket on each side

For 3/8" (10mm) Glass: Use one thin gasket on each side

Recommendations:

For public safety, we recommend the use of only tempered safety glass.

Do not use power tools when installing these hinges.

ZURICH

180° Glass-to-Glass Outswing
 or Bi-Fold Inswing Hinge (Inline)

CAT No. ZUR07

*** SEE TEMPLATE ON BACK ***
 Refer to Dimensions Shown
 to Ensure Accuracy

Maintenance Guidelines:

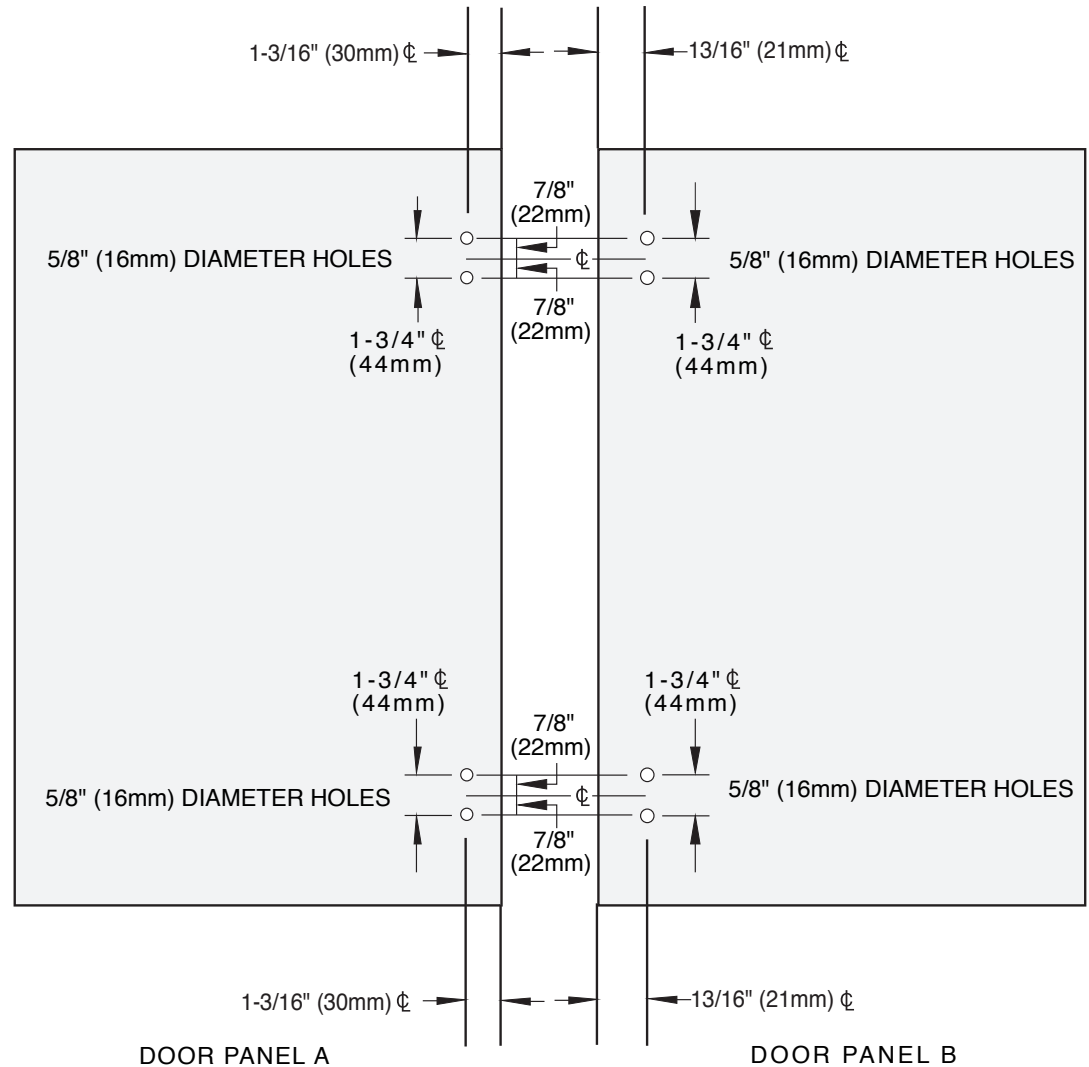
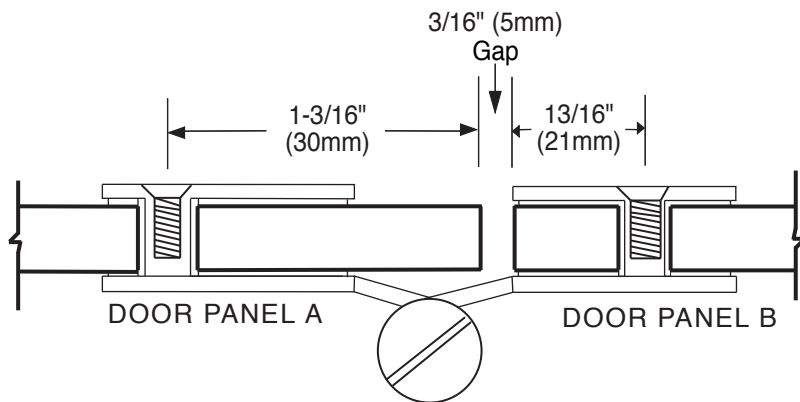
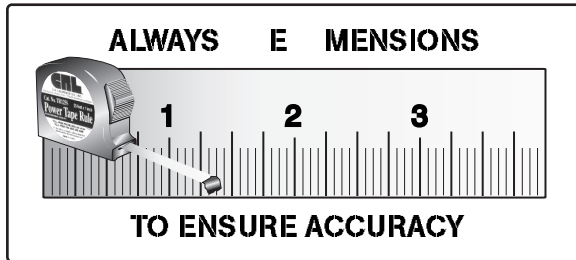
- Never use an abrasive cleaner on the hardware. Many of the components are coated with a clear lacquer that will be irreparably damaged if subjected to harsh, abrasive chemicals. Advise your customer that drying the hardware with a clean, soft towel on a daily basis is the best way to maintain the hardware. If mineral deposits build-up, mix a couple of drops of a mild liquid soap (such as Ivory or a similar product) into a cup of warm water. Using a soft, non-abrasive cloth, clean the hardware. Rinse thoroughly with clean, warm water and dry.

*Maximum Door Capacities	5/16" (8mm) Glass		3/8" (10mm) Glass	
	Weight	Width	Weight	Width
Using 2 Hinges	100 lbs.(45 kg)	36"(914mm)	100 lbs.(45 kg)	36"(914mm)
Using 3 Hinges	150 lbs.(68 kg)	40"(1016mm)	150 lbs.(68 kg)	40"(1016mm)

***NOTE:** Do not exceed either maximum weight or width when choosing proper quantity of hinges.



C.R. LAURENCE CO., INC.
PROFESSIONAL QUALITY



ZURICH

180° Glass-to-Glass Outswing or Bi-Fold Inswing Hinge (Inline)

CAT No. ZUR07



*** SEE TEMPLATE ON BACK ***
 Refer to Dimensions Shown
 to Ensure Accuracy

Important Information:

***NOTE:** These Hinges must be used in conjunction with a HYD01 Sliding Door Hanger and a Hydroslide Sliding Shower Door Upper Track. (sold separately).

Specifications:

Glass Sizes: 5/16" (8mm) to 3/8" (10mm) thick tempered safety glass
Construction: Solid brass
Closing Type: Free-swinging
Two Holes Required (No Cutout) For HYDH180
One Hole Required (No Cut-Out) For HYDH037
Includes: Gaskets, screws and template

Use of Gaskets:

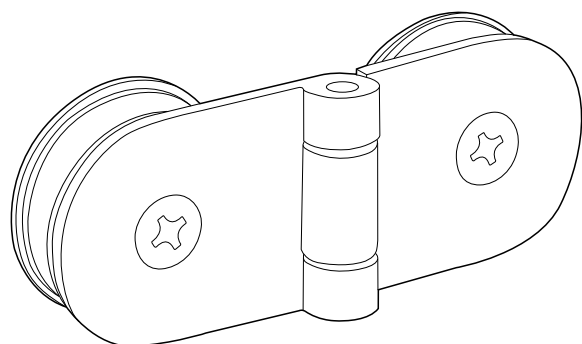
For 5/16" (8mm) Glass: Use one thick gasket on each side
For 3/8" (10mm) Glass: Use one thin gasket on each side

Maintenance Guidelines:

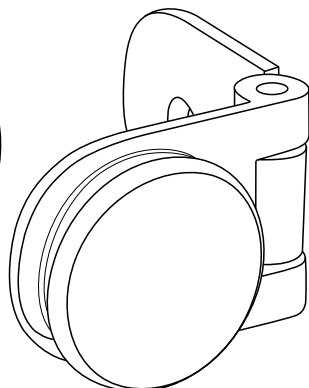
- Never use an abrasive cleaner on the hardware. Many of the components are coated with a clear lacquer that will be irreparably damaged if subjected to harsh, abrasive chemicals. Advise your customer that drying the hardware with a clean, soft towel on a daily basis is the best way to maintain the hardware. If mineral deposits build-up, mix a couple of drops of a mild liquid soap (such as Ivory or a similar product) into a cup of warm water. Using a soft, non-abrasive cloth, clean the hardware. Rinse thoroughly with clean, warm water and dry.

Recommendations:

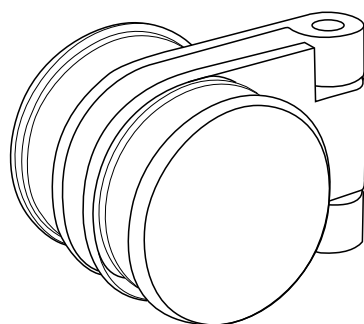
For public safety, we recommend the use of only tempered safety glass.
 Do not use power tools when installing these hinges.



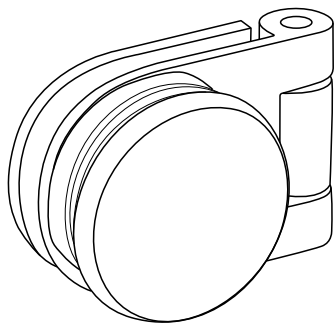
Doors in closed position
HYDH180



Doors in closed position
HYDH037



Doors in open position
HYDH180

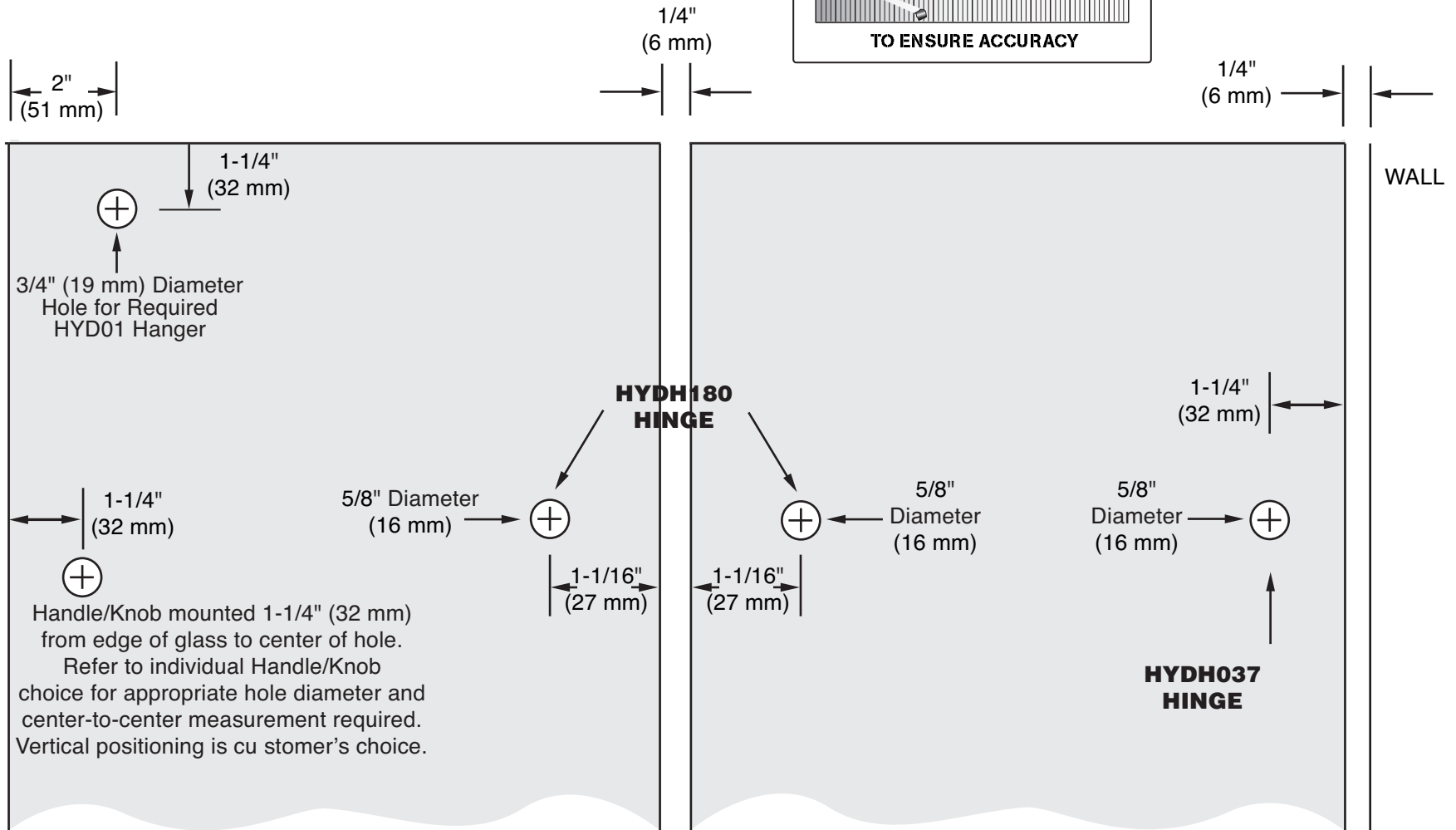
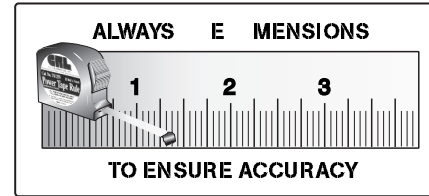


Doors in open position
HYDH037

Hydroslide Bi-Fold Hinges CAT No. HYDH180 AND HYDH037

*Maximum Door Capacities	5/16" (8mm) Glass		3/8" (10mm) Glass	
	Weight	Width	Weight	Width
Using 2 Hinges	100 lbs.(45 kg)	36"(914mm)	100 lbs.(45 kg)	36"(914mm)

***NOTE:** Do not exceed either maximum weight or width (for both sliding doors combined) when choosing proper quantity of hinges.

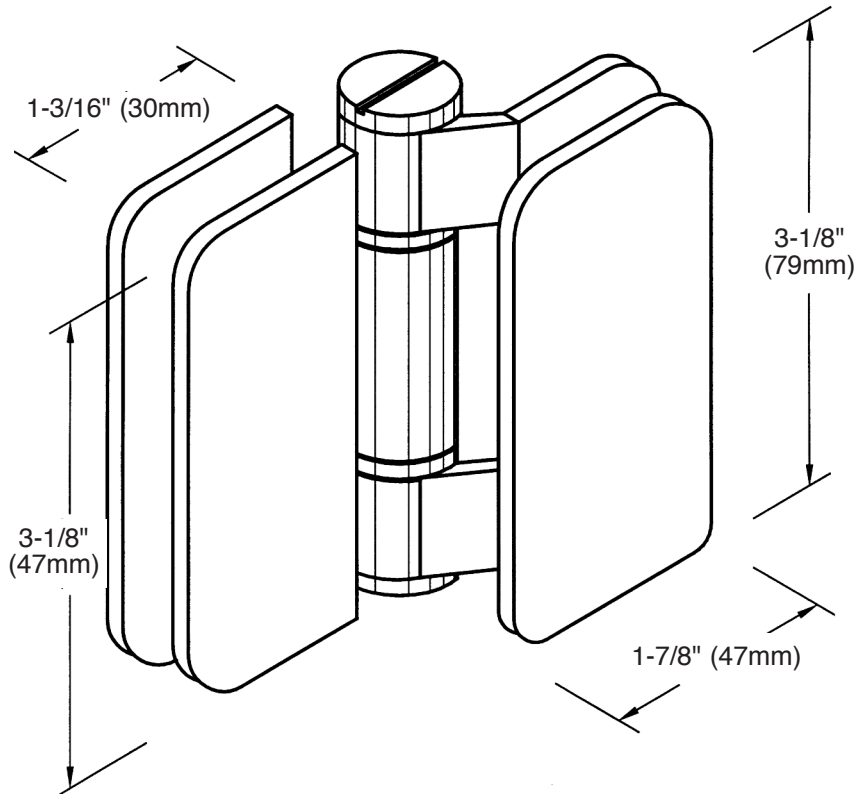


Hydroslide Bi-Fold Hinges

CAT No. **HYDH180** AND **HYDH037**



C.R. LAURENCE CO., INC.
PROFESSIONAL QUALITY



Specifications:

Glass Sizes: 5/16" (8mm) to 3/8" (10mm) thick tempered safety glass

Construction: Stainless steel or solid brass

Closing Type: Free-swinging

Two Holes Required (No Cutout)

Includes: Gaskets, screws and template

Use of Gaskets:

For 5/16" (8mm) Glass: Use one thick gasket on each side

For 3/8" (10mm) Glass: Use one thin gasket on each side

Recommendations:

For public safety, we recommend the use of only tempered safety glass.

Do not use power tools when installing these hinges.

Maintenance Guidelines:

- Never use an abrasive cleaner on the hardware. Many of the components are coated with a clear lacquer that will be irreparably damaged if subjected to harsh, abrasive chemicals. Advise your customer that drying the hardware with a clean, soft towel on a daily basis is the best way to maintain the hardware. If mineral deposits build-up, mix a couple of drops of a mild liquid soap (such as Ivory or a similar product) into a cup of warm water. Using a soft, non-abrasive cloth, clean the hardware. Rinse thoroughly with clean, warm water and dry.

ZURICH

180° Glass-to-Glass Inswing
 or Bi-Fold Outswing Hinge

CAT No. ZUR02

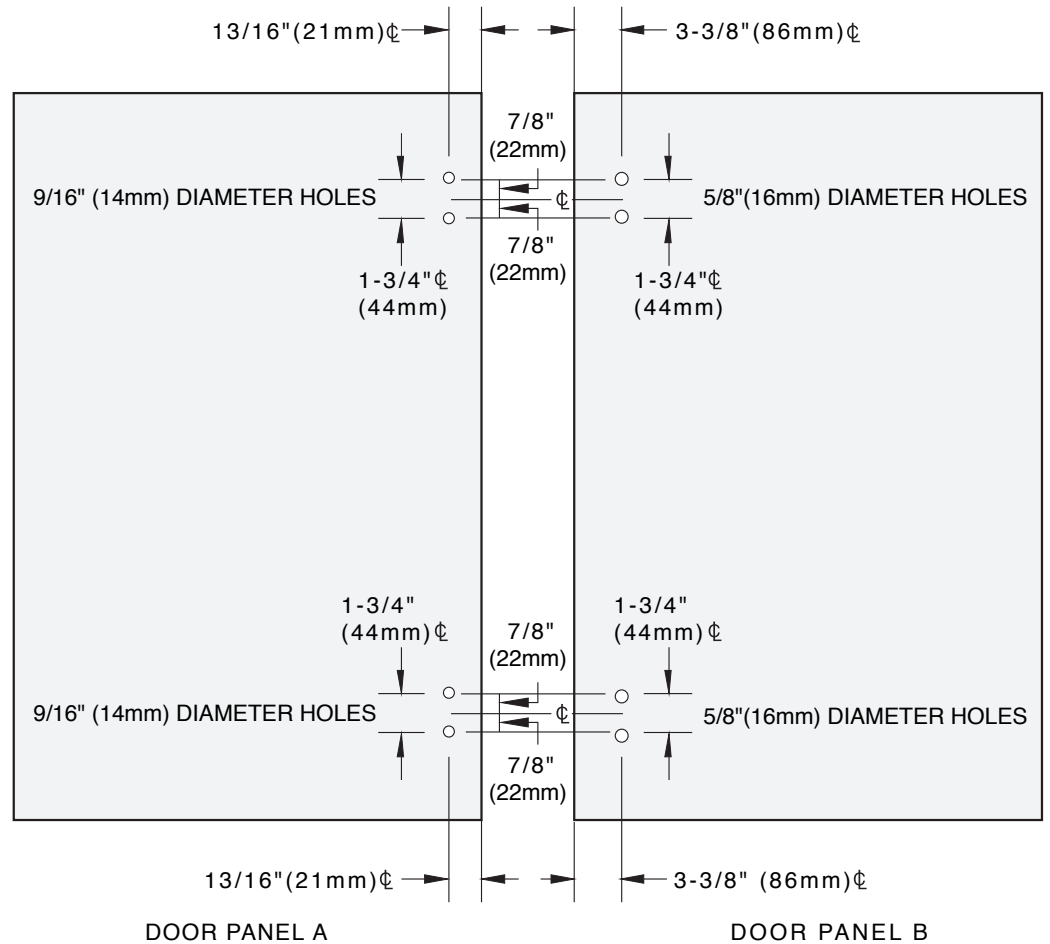
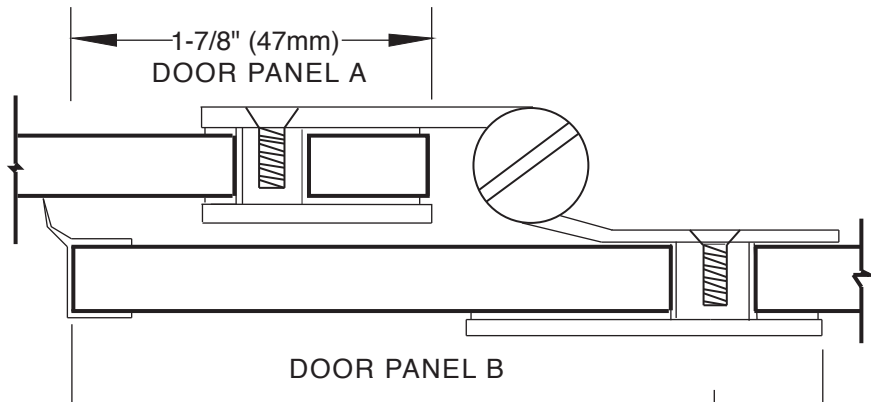
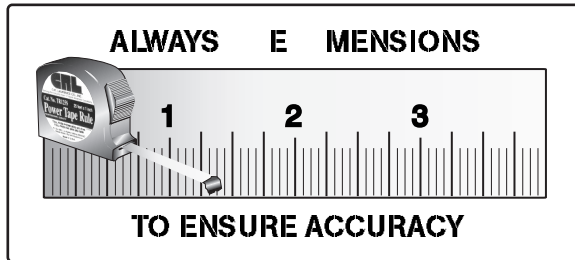
*** SEE TEMPLATE ON BACK ***
 Refer to Dimensions Shown
 to Ensure Accuracy

* Maximum Door Capacities	5/16" (8mm) Glass		3/8" (10mm) Glass	
	Weight	Width	Weight	Width
Using 2 Hinges	100 lbs.(45 kg)	36"(914mm)	100 lbs.(45 kg)	36"(914mm)
Using 3 Hinges	150 lbs.(68 kg)	40"(1016mm)	150 lbs.(68 kg)	40"(1016mm)

***NOTE:** Do not exceed either maximum weight or width when choosing proper quantity of hinges.



C.R. LAURENCE CO., INC.
PROFESSIONAL QUALITY



ZURICH

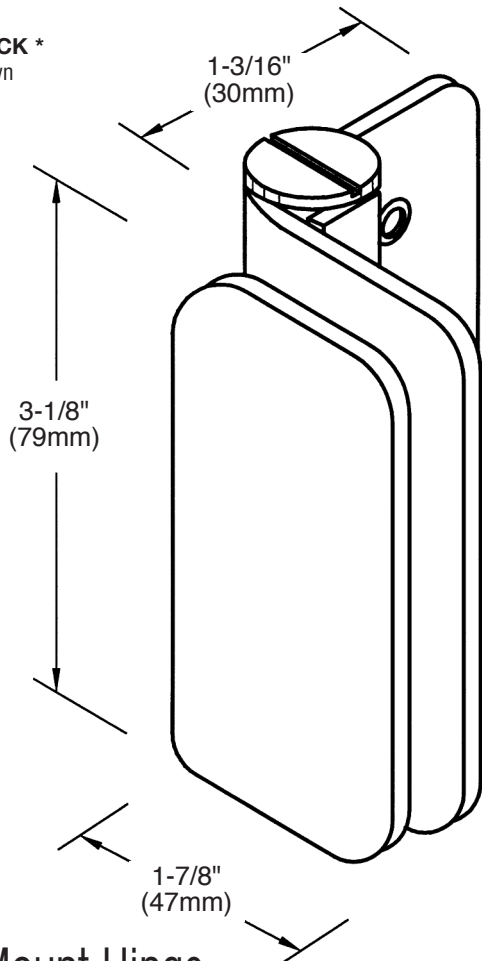
180° Glass-to-Glass Inswing or Bi-Fold Outswing Hinge

CAT No. ZUR02



C.R. LAURENCE CO., INC.
PROFESSIONAL QUALITY

*** SEE TEMPLATE ON BACK ***
 Refer to Dimensions Shown
 to Ensure Accuracy



ZURICH

Inswing Wall Mount Hinge

CAT No. ZUR03

*Maximum Door Capacities	5/16" (8mm) Glass		3/8" (10mm) Glass	
	Weight	Width	Weight	Width
Using 2 Hinges	100 lbs.(45 kg)	36"(914mm)	100 lbs.(45 kg)	36"(914mm)
Using 3 Hinges	150 lbs.(68 kg)	40"(1016mm)	150 lbs.(68 kg)	40"(1016mm)

***NOTE:** Do not exceed either maximum weight or width when choosing proper quantity of hinges.

Specifications:

Glass Sizes: 5/16" (8mm) to 3/8" (10mm) thick tempered safety glass

Construction: Stainless steel or solid brass

Closing Type: Free-swinging

Two Holes Required (No Cutout)

Includes: Gaskets, screws and template

Use of Gaskets:

For 5/16" (8mm) Glass: Use one thick gasket on each side

For 3/8" (10mm) Glass: Use one thin gasket on each side

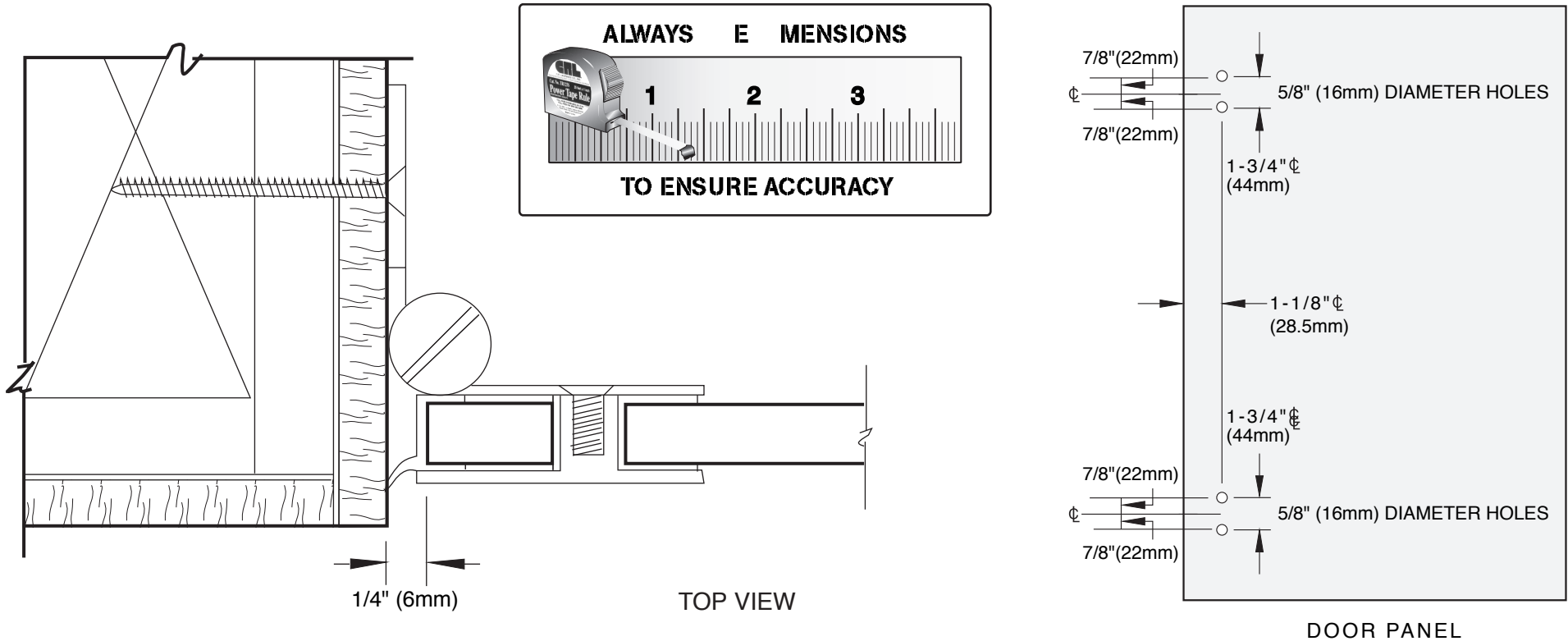
Recommendations:

For public safety, we recommend the use of only tempered safety glass.

Do not use power tools when installing these hinges.

Maintenance Guidelines:

- Never use an abrasive cleaner on the hardware. Many of the components are coated with a clear lacquer that will be irreparably damaged if subjected to harsh, abrasive chemicals. Advise your customer that drying the hardware with a clean, soft towel on a daily basis is the best way to maintain the hardware. If mineral deposits build-up, mix a couple of drops of a mild liquid soap (such as Ivory or a similar product) into a cup of warm water. Using a soft, non-abrasive cloth, clean the hardware. Rinse thoroughly with clean, warm water and dry.



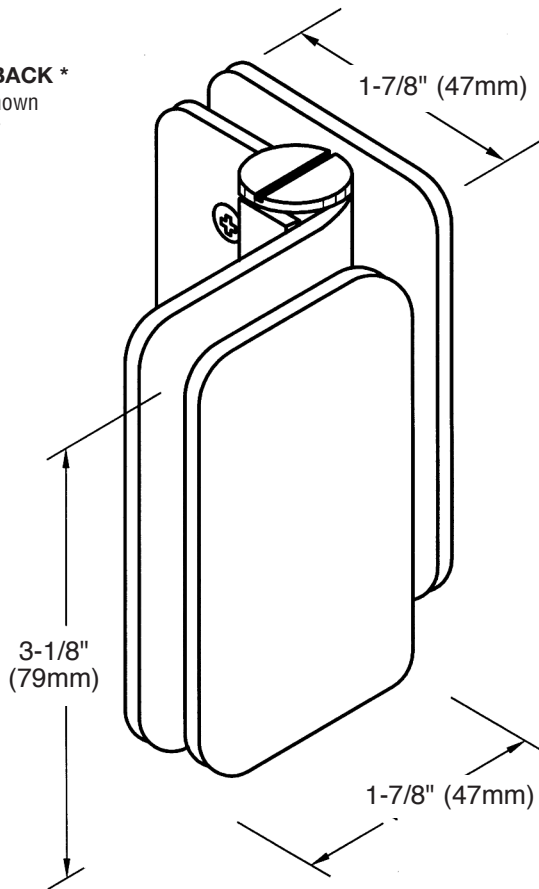
ZURICH

Inswing Wall Mount Hinge
CAT No. ZUR03



C.R. LAURENCE CO., INC.
PROFESSIONAL QUALITY

*** SEE TEMPLATE ON BACK ***
 Refer to Dimensions Shown
 to Ensure Accuracy



ZURICH

Glass-to-Glass Inswing Hinge

Cat No. ZUR04

*Maximum Door Capacities	5/16" (8mm) Glass		3/8" (10mm) Glass	
	Weight	Width	Weight	Width
Using 2 Hinges	100 lbs.(45 kg)	36"(914mm)	100 lbs.(45 kg)	36"(914mm)
Using 3 Hinges	150 lbs.(68 kg)	40"(1016mm)	150 lbs.(68 kg)	40"(1016mm)

***NOTE:** Do not exceed either maximum weight or width when choosing proper quantity of hinges.

Specifications:

Glass Sizes: 5/16" (8mm) to 3/8" (10mm) thick tempered safety glass

Construction: Stainless steel or solid brass

Closing Type: Free-swinging

Two Holes Required (No Cutout)

Includes: Gaskets, screws and template

Use of Gaskets:

For 5/16" (8mm) Glass: Use one thick gasket on each side

For 3/8" (10mm) Glass: Use one thin gasket on each side

Recommendations:

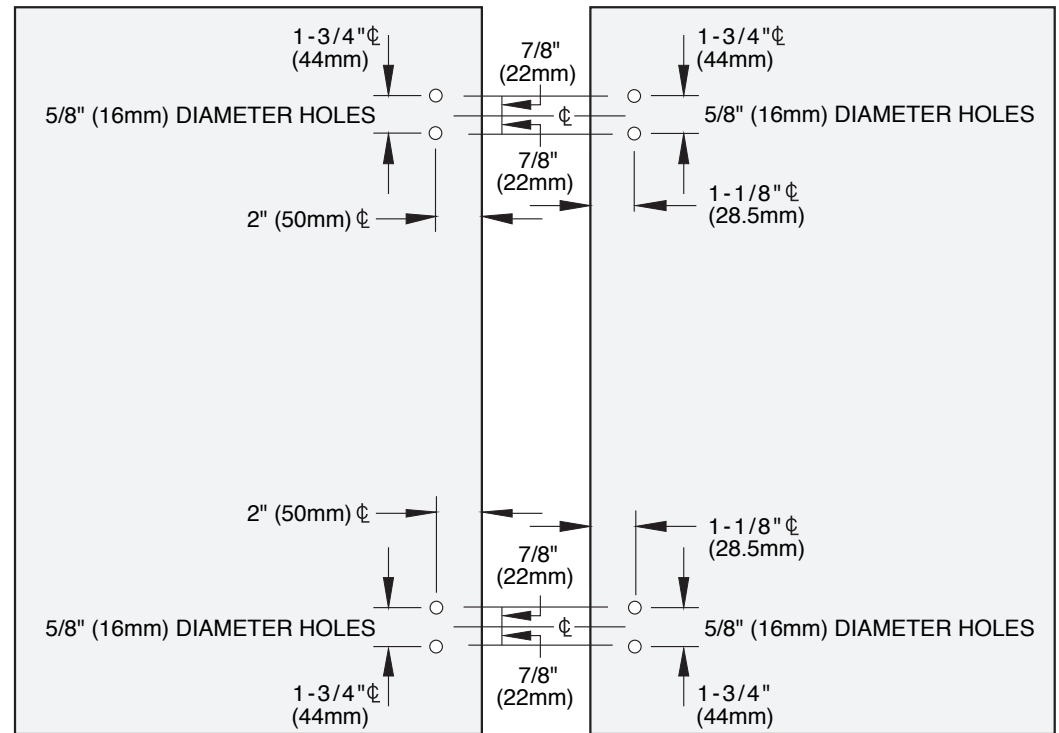
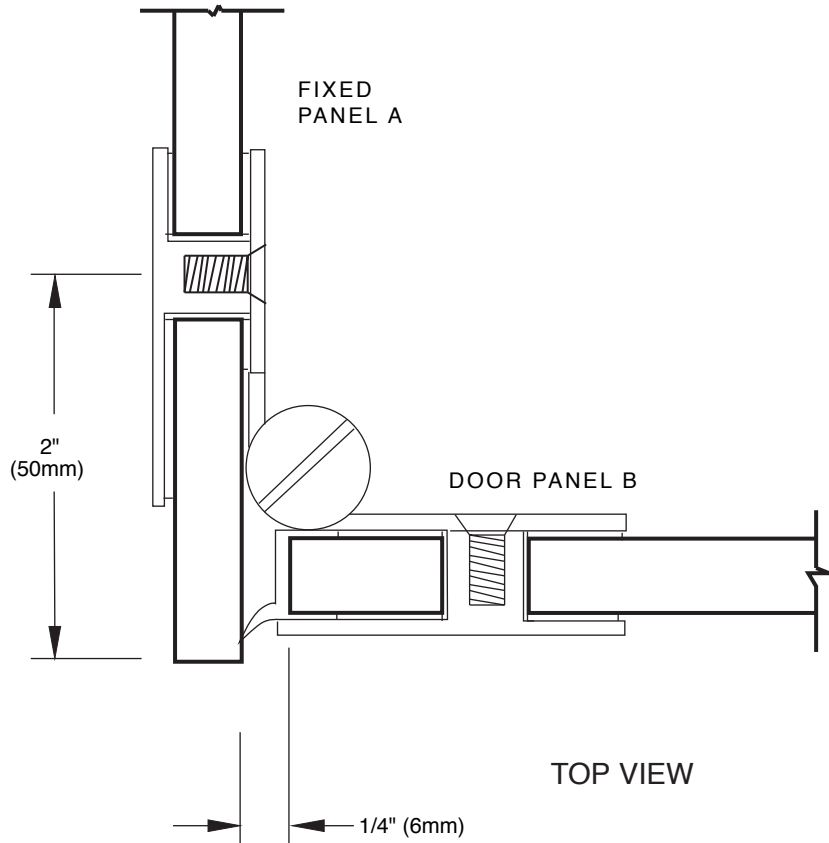
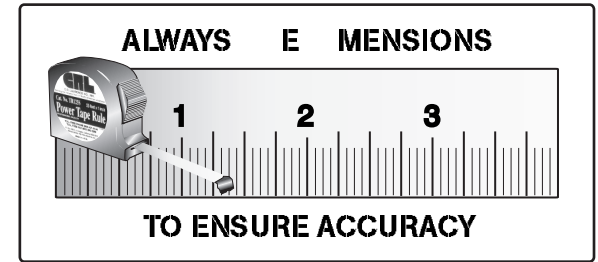
For public safety, we recommend the use of only tempered safety glass. Do not use power tools when installing these hinges.

Maintenance Guidelines:

- Never use an abrasive cleaner on the hardware. Many of the components are coated with a clear lacquer that will be irreparably damaged if subjected to harsh, abrasive chemicals. Advise your customer that drying the hardware with a clean, soft towel on a daily basis is the best way to maintain the hardware. If mineral deposits build-up, mix a couple of drops of a mild liquid soap (such as Ivory or a similar product) into a cup of warm water. Using a soft, non-abrasive cloth, clean the hardware. Rinse thoroughly with clean, warm water and dry.



C.R. LAURENCE CO., INC.
 PROFESSIONAL QUALITY



ZURICH

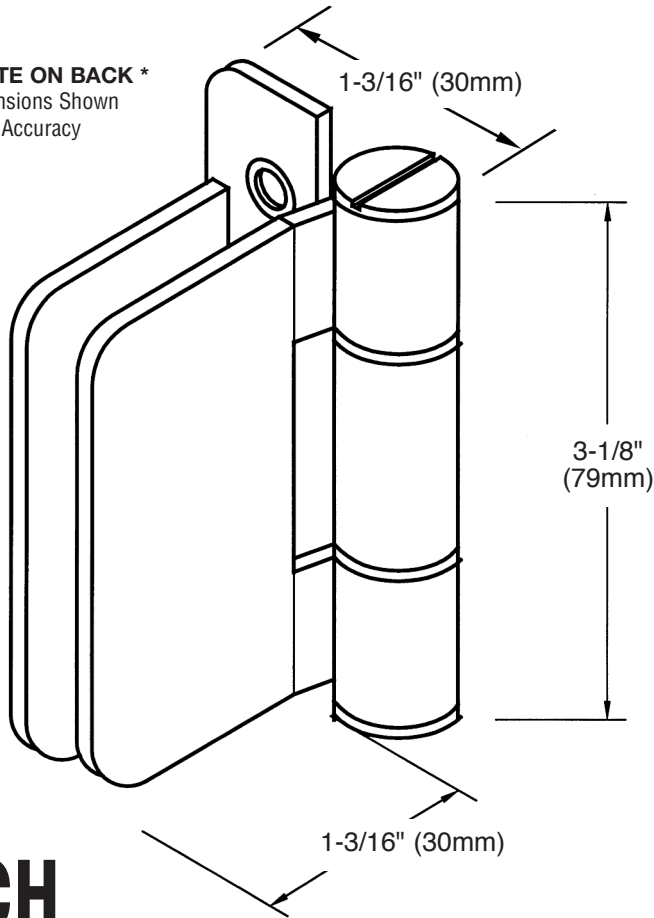
Glass-to-Glass Inswing Hinge

CAT No. ZUR04



C.R. LAURENCE CO., INC.
PROFESSIONAL QUALITY

*** SEE TEMPLATE ON BACK ***
Refer to Dimensions Shown
to Ensure Accuracy



ZURICH

Outswing Wall Mount Hinge

CAT No. ZUR05

* Maximum Door Capacities	5/16" (8mm) Glass		3/8" (10mm) Glass	
	Weight	Width	Weight	Width
Using 2 Hinges	100 lbs.(45 kg)	36"(914mm)	100 lbs.(45 kg)	36"(914mm)
Using 3 Hinges	150 lbs.(68 kg)	40"(1016mm)	150 lbs.(68 kg)	40"(1016mm)

***NOTE:** Do not exceed either maximum weight or width when choosing proper quantity of hinges.

Specifications:

Glass Sizes: 5/16" (8mm) to 3/8" (10mm) thick tempered safety glass

Construction: Stainless steel or solid brass

Closing Type: Free-swinging

Two Holes Required (No Cutout)

Includes: Gaskets, screws and template

Use of Gaskets:

For 5/16" (8mm) Glass: Use one thick gasket on each side

For 3/8" (10mm) Glass: Use one thin gasket on each side

Recommendations:

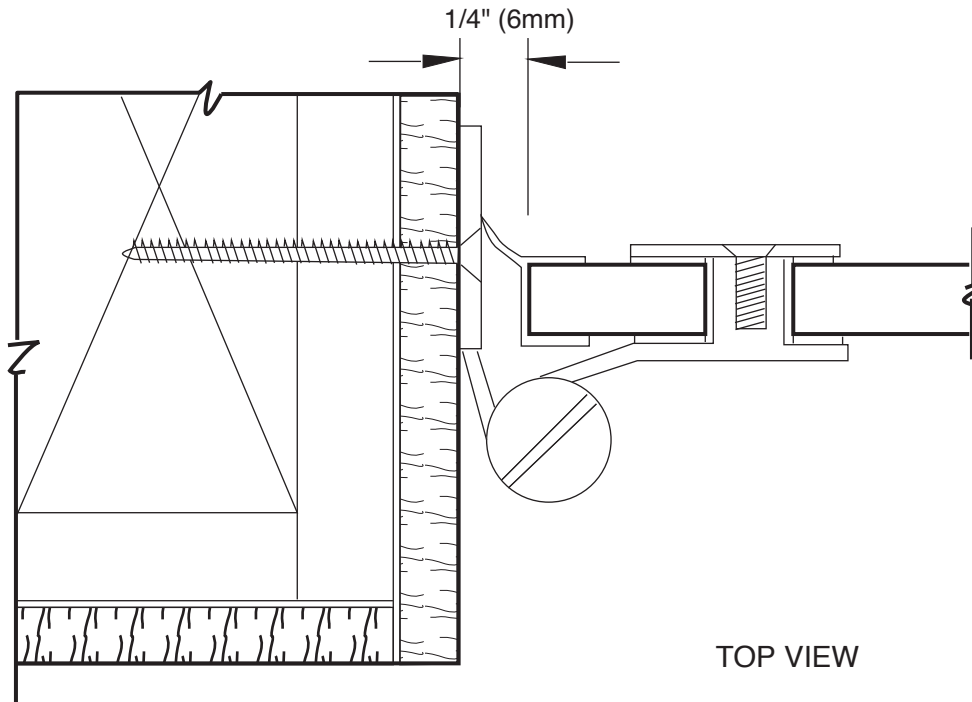
For public safety, we recommend the use of only tempered safety glass. Do not use power tools when installing these hinges.

Maintenance Guidelines:

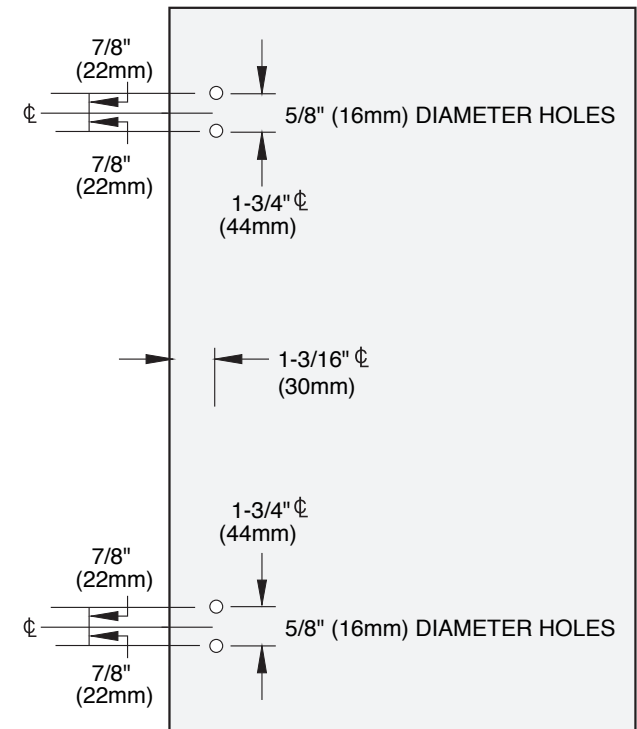
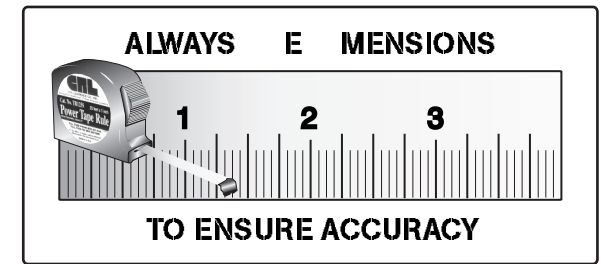
- Never use an abrasive cleaner on the hardware. Many of the components are coated with a clear lacquer that will be irreparably damaged if subjected to harsh, abrasive chemicals. Advise your customer that drying the hardware with a clean, soft towel on a daily basis is the best way to maintain the hardware. If mineral deposits build-up, mix a couple of drops of a mild liquid soap (such as Ivory or a similar product) into a cup of warm water. Using a soft, non-abrasive cloth, clean the hardware. Rinse thoroughly with clean, warm water and dry.



C.R. LAURENCE CO., INC.
 PROFESSIONAL QUALITY



TOP VIEW



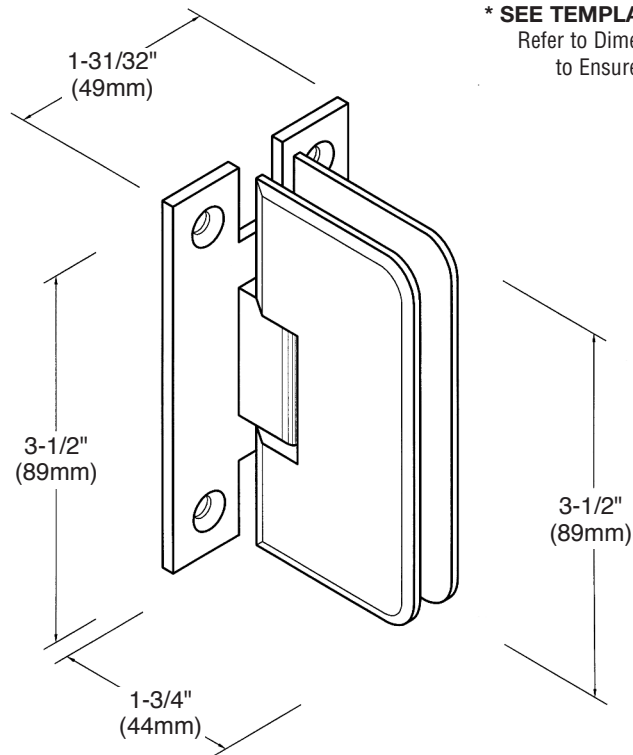
ZURICH

Outswing Wall Mount Hinge

CAT No. ZUR05



C.R. LAURENCE CO., INC.
PROFESSIONAL QUALITY



*** SEE TEMPLATE ON BACK ***
 Refer to Dimensions Shown
 to Ensure Accuracy

Specifications:

Glass Sizes: 1/4" (6mm) to 5/16" (8mm) thick tempered safety glass

Construction: Solid brass

Closing Type: Self-centering when within 15° of closed position

Cutout Required

Includes: Gaskets, screws and template

Use of Gaskets:

For 1/4"(6mm) Glass: Use one thick gasket on each side

For 5/16"(8mm) Glass: Use one thin gasket on each side

Recommendations:

For public safety, we recommend the use of only tempered safety glass.
 Do not use power tools when installing these hinges.

Maintenance Guidelines:

- Never use an abrasive cleaner on the hardware. Many of the components are coated with a clear lacquer that will be irreparably damaged if subjected to harsh, abrasive chemicals. Advise your customer that drying the hardware with a clean, soft towel on a daily basis is the best way to maintain the hardware. If mineral deposits build-up, mix a couple of drops of a mild liquid soap (such as Ivory or a similar product) into a cup of warm water. Using a soft, non-abrasive cloth, clean the hardware. Rinse thoroughly with clean, warm water and dry.

PETITE

Wall Mount Hinge – Standard Back Plate

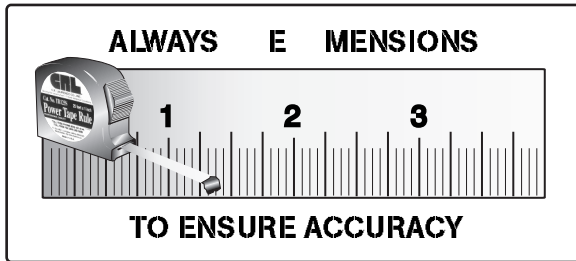
CAT No. PET037

*Maximum Door Capacities	1/4" (6mm)		5/16" (8mm)	
	Weight	Width	Weight	Width
Using 2 Hinges	55 lbs.(25 kg)	31"(787mm)	55 lbs.(25 kg)	31"(787mm)
Using 3 Hinges	82 lbs.(37 kg)	34"(864mm)	82 lbs.(37 kg)	34"(864mm)

***NOTE:** Do not exceed either maximum weight or width when choosing proper quantity of hinges.



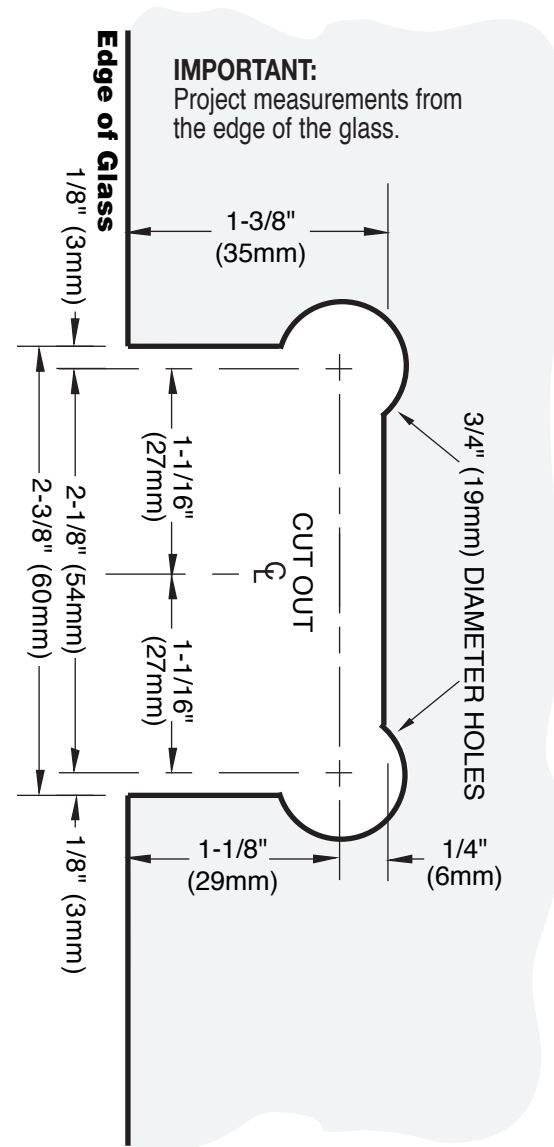
C.R. LAURENCE CO., INC.
PROFESSIONAL QUALITY



PETITE

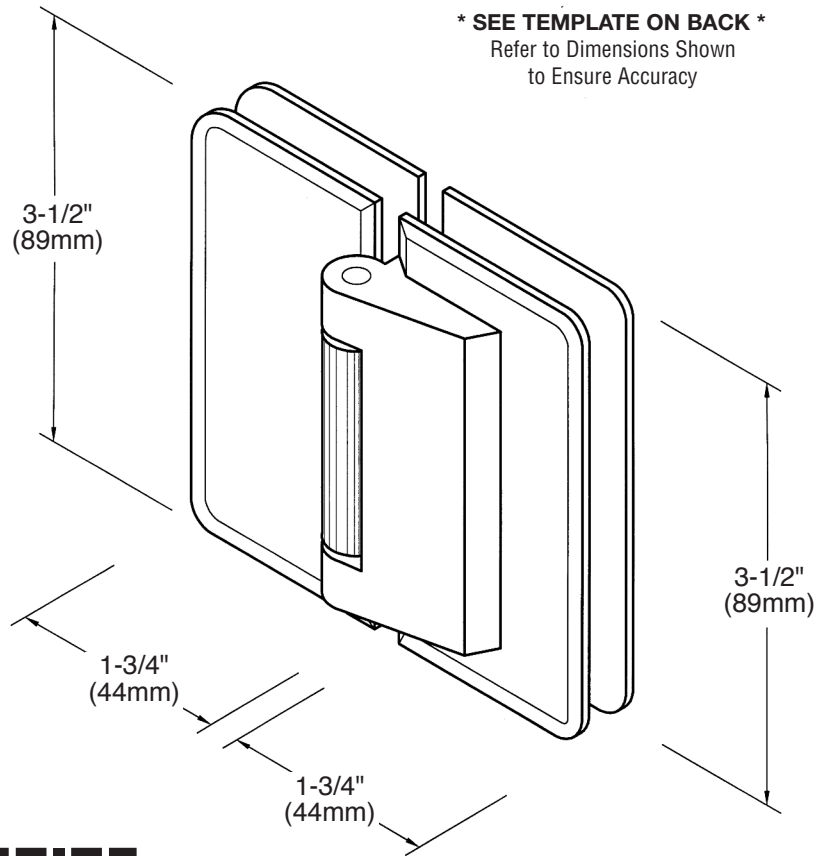
Wall Mount Hinge – Standard Back Plate

CAT No. PET037





C.R. LAURENCE CO., INC.
PROFESSIONAL QUALITY



Important Information:

Door and fixed panel use the same fabrication.

Specifications:

Glass Sizes: 1/4" (6mm) to 5/16" (8mm) thick tempered safety glass

Construction: Solid brass

Closing Type: Self-centering when within 15° of closed position

Holes Only Required

Includes: Gaskets, screws and template

Use of Gaskets:

For 1/4"(6mm) Glass: Use one thick gasket on each side

For 5/16"(8mm) Glass: Use one thin gasket on each side

Recommendations:

For public safety, we recommend the use of only tempered safety glass.
Do not use power tools when installing these hinges.

Maintenance Guidelines:

- Never use an abrasive cleaner on the hardware. Many of the components are coated with a clear lacquer that will be irreparably damaged if subjected to harsh, abrasive chemicals. Advise your customer that drying the hardware with a clean, soft towel on a daily basis is the best way to maintain the hardware. If mineral deposits build-up, mix a couple of drops of a mild liquid soap (such as Ivory or a similar product) into a cup of warm water. Using a soft, non-abrasive cloth, clean the hardware. Rinse thoroughly with clean, warm water and dry.

PETITE

180° Glass-to-Glass Hinge (Door Swings 180° Out Only)

Cat. No. PET181

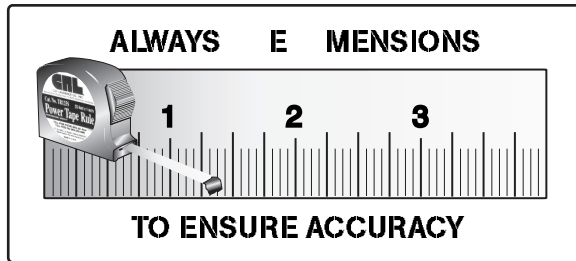
*Maximum Door Capacities	1/4" (6mm)		5/16" (8mm)	
	Weight	Width	Weight	Width
Using 2 Hinges	55 lbs.(25 kg)	31"(787mm)	55 lbs.(25 kg)	31"(787mm)
Using 3 Hinges	82 lbs.(37 kg)	34"(864mm)	82 lbs.(37 kg)	34"(864mm)

*NOTE: Do not exceed either maximum weight or width when choosing proper quantity of hinges.

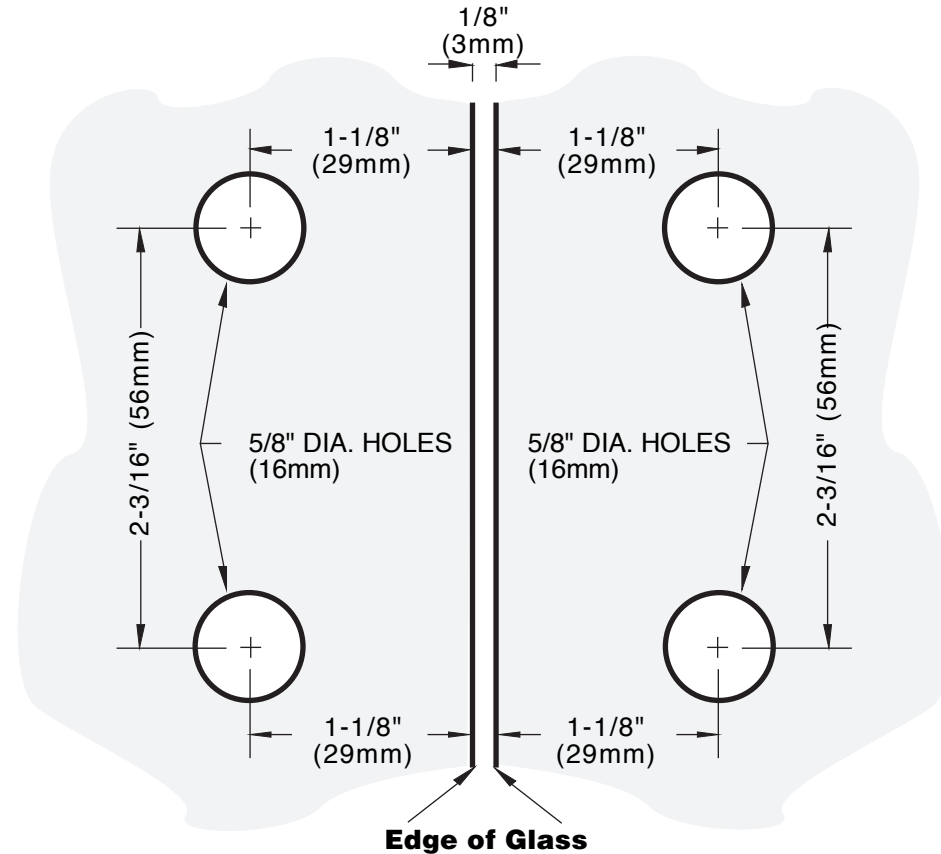
4Q-11



C.R. LAURENCE CO., INC.
PROFESSIONAL QUALITY



IMPORTANT:
Project measurements from the edge of the glass.



PETITE

180° Glass-to-Glass Hinge (Door Swings 180° Out Only)

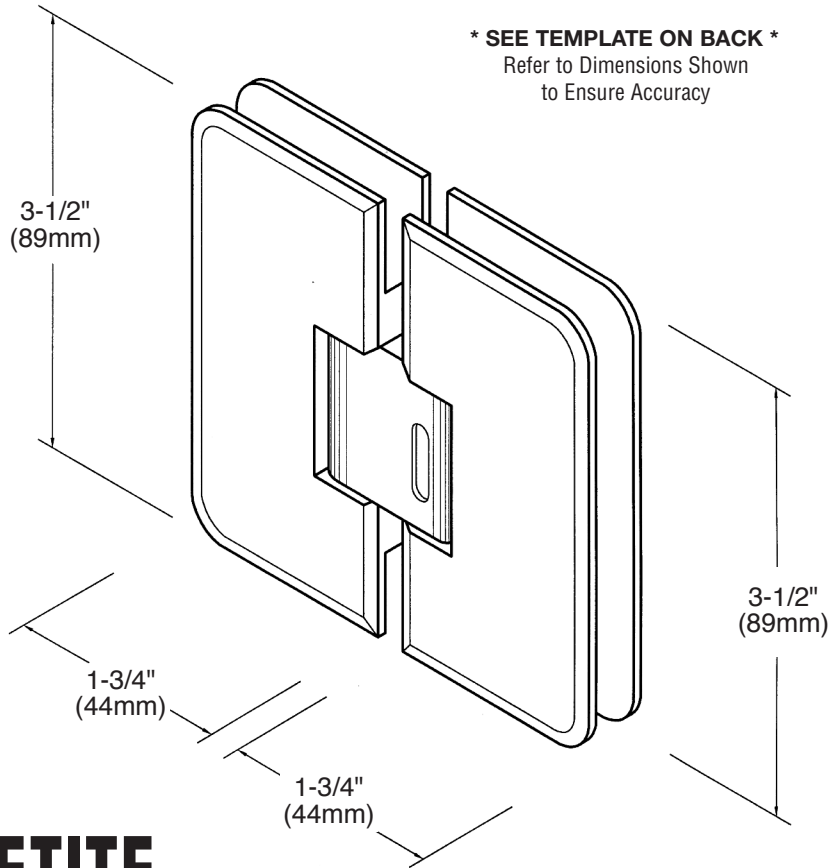
CAT. No. PET181

C.R. Laurence Co., Inc.
crlaurence.com

For technical assistance in the United States call toll free (800) 421-6144; from Canada call toll free (877) 421-6144; Outside the U.S. and Canada call (323) 588-1281. Ask for Tech Sales at Extension 7740. Toll free fax (800) 458-7496.



C.R. LAURENCE CO., INC.
PROFESSIONAL QUALITY



PETITE

360° Glass to Glass Hinge (Door Swings Full 360°)

CAT No. PET360

*Maximum Door Capacities	1/4" (6mm)		5/16" (8mm)	
	Weight	Width	Weight	Width
Using 2 Hinges	55 lbs.(25 kg)	31"(787mm)	55 lbs.(25 kg)	31"(787mm)
Using 3 Hinges	82 lbs.(37 kg)	34"(864mm)	82 lbs.(37 kg)	34"(864mm)

*NOTE: Do not exceed either maximum weight or width when choosing proper quantity of hinges.

Important Information:

Door and fixed panel use the same cutout.

Specifications:

Glass Sizes: 1/4" (6mm) to 5/16" (8mm) thick tempered safety glass

Construction: Solid brass

Closing Type: Self-centering when within 15° of closed position

Cutout Required

Includes: Gaskets, screws and template

Use of Gaskets:

For 1/4"(6mm) Glass: Use one thick gasket on each side

For 5/16"(8mm) Glass: Use one thin gasket on each side

Recommendations:

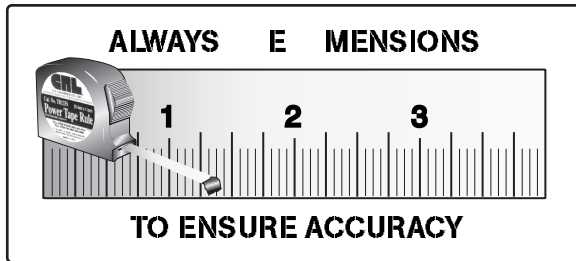
For public safety, we recommend the use of only tempered safety glass. Do not use power tools when installing these hinges.

Maintenance Guidelines:

- Never use an abrasive cleaner on the hardware. Many of the components are coated with a clear lacquer that will be irreparably damaged if subjected to harsh, abrasive chemicals. Advise your customer that drying the hardware with a clean, soft towel on a daily basis is the best way to maintain the hardware. If mineral deposits build-up, mix a couple of drops of a mild liquid soap (such as Ivory or a similar product) into a cup of warm water. Using a soft, non-abrasive cloth, clean the hardware. Rinse thoroughly with clean, warm water and dry.



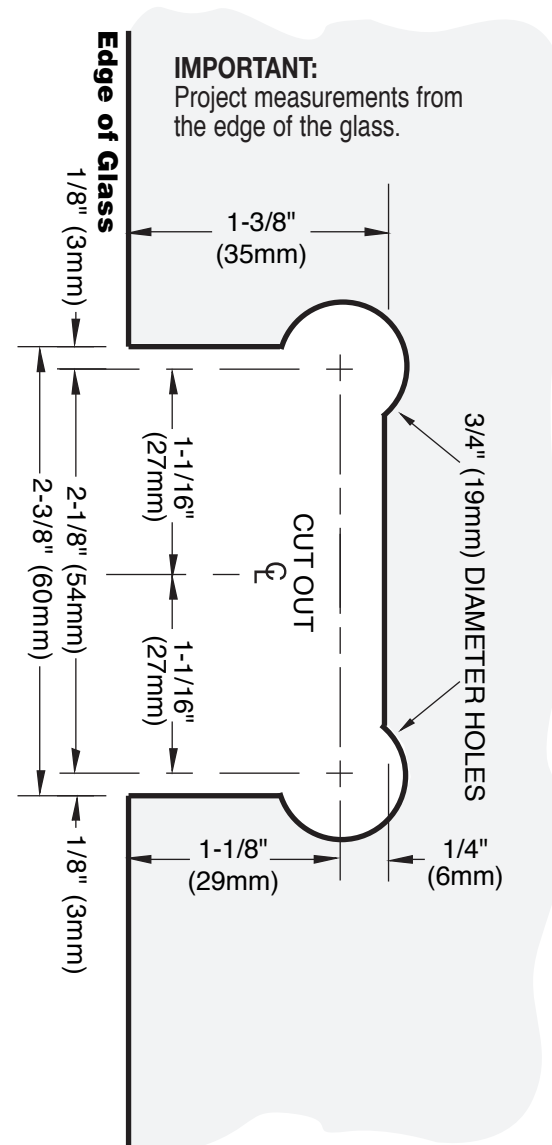
C.R. LAURENCE CO., INC.
PROFESSIONAL QUALITY



PETITE

360° Glass to Glass Hinge (Door Swings Full 360°)

CAT No. PET360

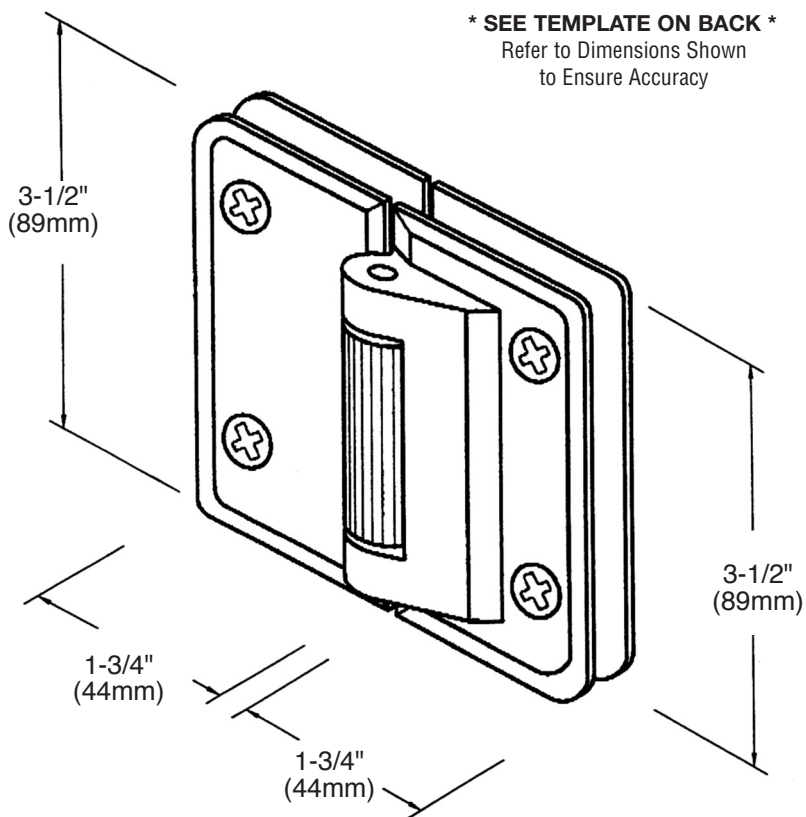


C.R. Laurence Co., Inc.
 crlaurence.com

For technical assistance in the United States call toll free (800) 421-6144; from Canada call toll free (877) 421-6144; Outside the U.S. and Canada call (323) 588-1281. Ask for Tech Sales at Extension 7740. Toll free fax (800) 458-7496.



C.R. LAURENCE CO., INC.
PROFESSIONAL QUALITY



Important Information:

Door and fixed panel use the same hole pattern.

Specifications:

Glass Sizes: 1/4" (6mm) to 5/16" (8mm) thick tempered safety glass

Construction: Solid brass

Closing Type: Self-centering when within 15° of closed position

Cutout Required

Includes: Gaskets, screws and template

Use of Gaskets:

For 1/4"(6mm) Glass: Use one thick gasket on each side

For 5/16"(8mm) Glass: Use one thin gasket on each side

Recommendations:

For public safety, we recommend the use of only tempered safety glass.

Do not use power tools when installing these hinges.

Maintenance Guidelines:

- Never use an abrasive cleaner on the hardware. Many of the components are coated with a clear lacquer that will be irreparably damaged if subjected to harsh, abrasive chemicals. Advise your customer that drying the hardware with a clean, soft towel on a daily basis is the best way to maintain the hardware. If mineral deposits build-up, mix a couple of drops of a mild liquid soap (such as Ivory or a similar product) into a cup of warm water. Using a soft, non-abrasive cloth, clean the hardware. Rinse thoroughly with clean, warm water and dry.

PETITE

180° Glass-to-Glass Hinge (Door Swings 180° In Only)

CAT. No. PET182

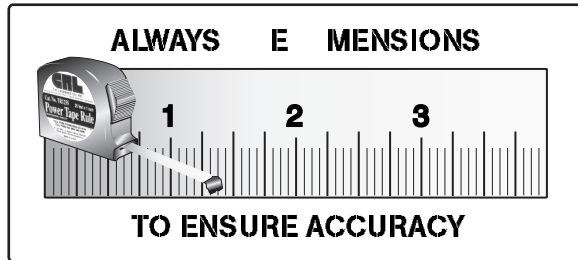
*Maximum Door Capacities	1/4" (6mm)		5/16" (8mm)	
	Weight	Width	Weight	Width
Using 2 Hinges	55 lbs.(25 kg)	31"(787mm)	55 lbs.(25 kg)	31"(787mm)
Using 3 Hinges	82 lbs.(37 kg)	34"(864mm)	82 lbs.(37 kg)	34"(864mm)

*NOTE: Do not exceed either maximum weight or width when choosing proper quantity of hinges.

4Q-15

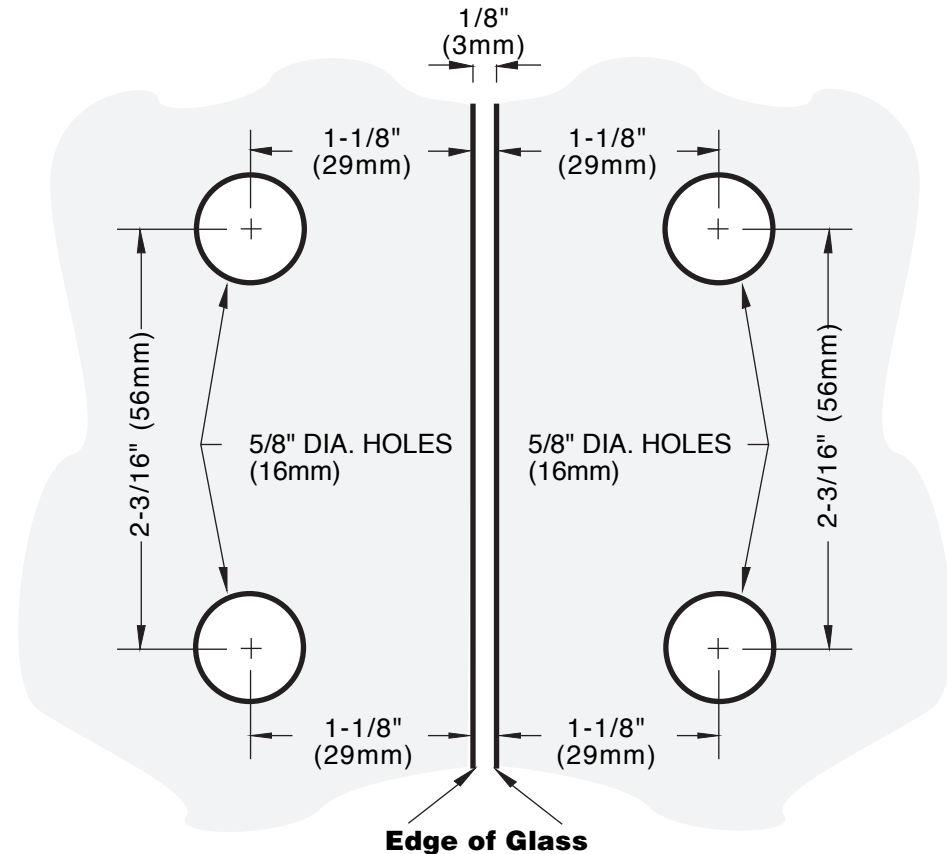


C.R. LAURENCE CO., INC.
PROFESSIONAL QUALITY



IMPORTANT:

Project measurements from the edge of the glass.



PETITE

180° Glass-to-Glass Hinge (Door Swings 180° In Only)

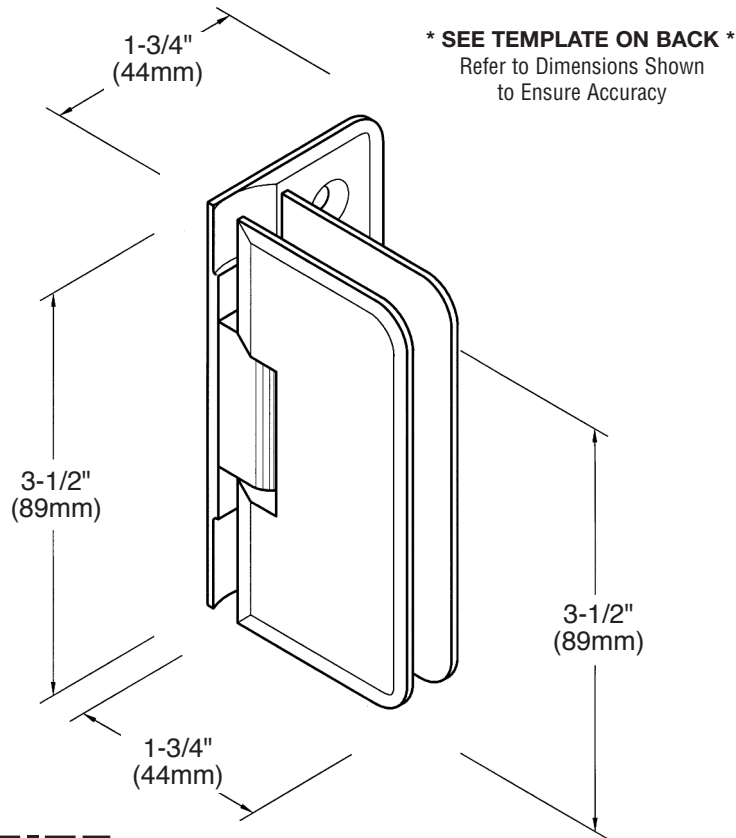
CAT. No. PET182

C.R. Laurence Co., Inc.
 crlaurence.com

For technical assistance in the United States call toll free (800) 421-6144; from Canada call toll free (877) 421-6144; Outside the U.S. and Canada call (323) 588-1281. Ask for Tech Sales at Extension 7740. Toll free fax (800) 458-7496.



C.R. LAURENCE CO., INC.
PROFESSIONAL QUALITY



PETITE

Wall Mount Hinge – Flush Back Plate

Cat No. PET044

*Maximum Door Capacities	1/4" (6mm)		5/16" (8mm)	
	Weight	Width	Weight	Width
Using 2 Hinges	55 lbs.(25 kg)	31"(787mm)	55 lbs.(25 kg)	31"(787mm)
Using 3 Hinges	82 lbs.(37 kg)	34"(864mm)	82 lbs.(37 kg)	34"(864mm)

*NOTE: Do not exceed either maximum weight or width when choosing proper quantity of hinges.

Specifications:

Glass Sizes: 1/4" (6mm) to 5/16" (8mm) thick tempered safety glass

Construction: Solid brass

Closing Type: Self-centering when within 15° of closed position

Cutout Required

Includes: Gaskets, screws and template

Use of Gaskets:

For 1/4"(6mm) Glass: Use one thick gasket on each side

For 5/16"(8mm) Glass: Use one thin gasket on each side

Recommendations:

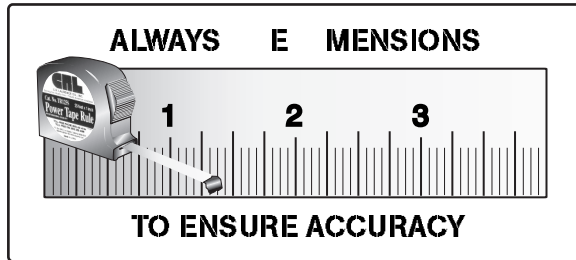
For public safety, we recommend the use of only tempered safety glass. Do not use power tools when installing these hinges.

Maintenance Guidelines:

- Never use an abrasive cleaner on the hardware. Many of the components are coated with a clear lacquer that will be irreparably damaged if subjected to harsh, abrasive chemicals. Advise your customer that drying the hardware with a clean, soft towel on a daily basis is the best way to maintain the hardware. If mineral deposits build-up, mix a couple of drops of a mild liquid soap (such as Ivory or a similar product) into a cup of warm water. Using a soft, non-abrasive cloth, clean the hardware. Rinse thoroughly with clean, warm water and dry.



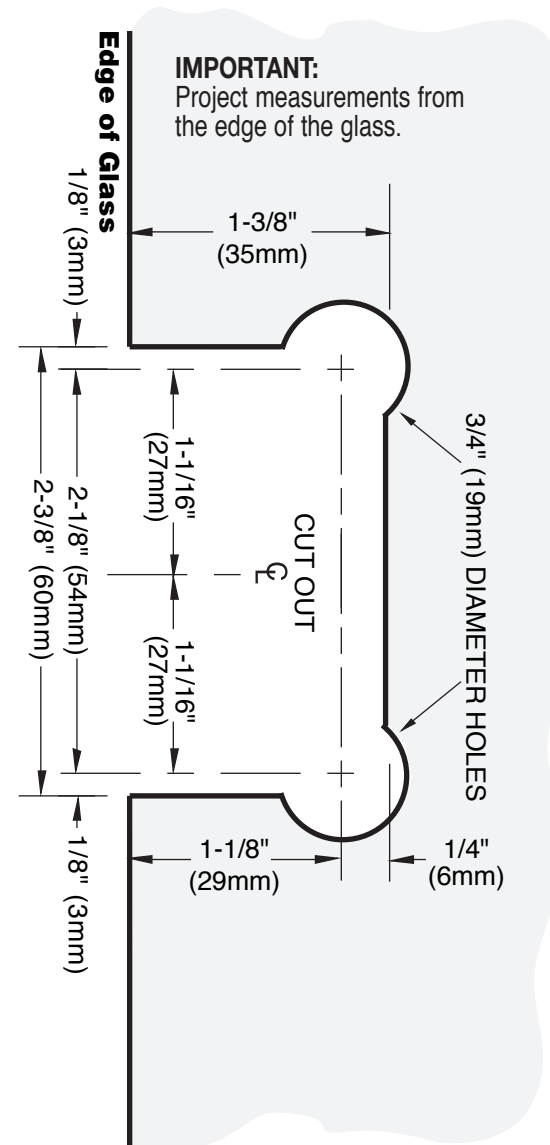
C.R. LAURENCE CO., INC.
PROFESSIONAL QUALITY



PETITE

Wall Mount Hinge – Flush Back Plate

CAT No. PET044

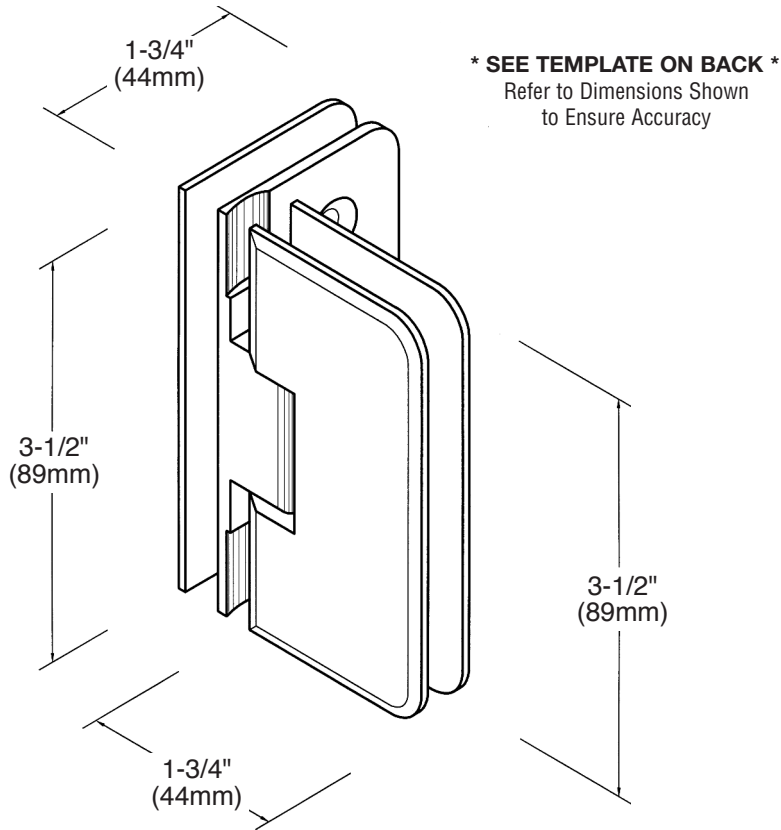


C.R. Laurence Co., Inc.
crlaurence.com

For technical assistance in the United States call toll free (800) 421-6144; from Canada call toll free (877) 421-6144; Outside the U.S. and Canada call (323) 588-1281. Ask for Tech Sales at Extension 7740. Toll free fax (800) 458-7496.



C.R. LAURENCE CO., INC.
PROFESSIONAL QUALITY



Specifications:

Glass Sizes: 1/4" (6mm) to 5/16" (8mm) thick tempered safety glass

Construction: Solid brass

Closing Type: Self-centering when within 15° of closed position

Cutout Required for Door.

Fixed Panel Requires Holes Only.

Includes: Gaskets, screws and template

Use of Gaskets:

For 1/4"(6mm) Glass: Use one thick gasket on each side

For 5/16"(8mm) Glass: Use one thin gasket on each side

Recommendations:

For public safety, we recommend the use of only tempered safety glass.

Do not use power tools when installing these hinges.

Maintenance Guidelines:

- Never use an abrasive cleaner on the hardware. Many of the components are coated with a clear lacquer that will be irreparably damaged if subjected to harsh, abrasive chemicals. Advise your customer that drying the hardware with a clean, soft towel on a daily basis is the best way to maintain the hardware. If mineral deposits build-up, mix a couple of drops of a mild liquid soap (such as Ivory or a similar product) into a cup of warm water. Using a soft, non-abrasive cloth, clean the hardware. Rinse thoroughly with clean, warm water and dry.

PETITE

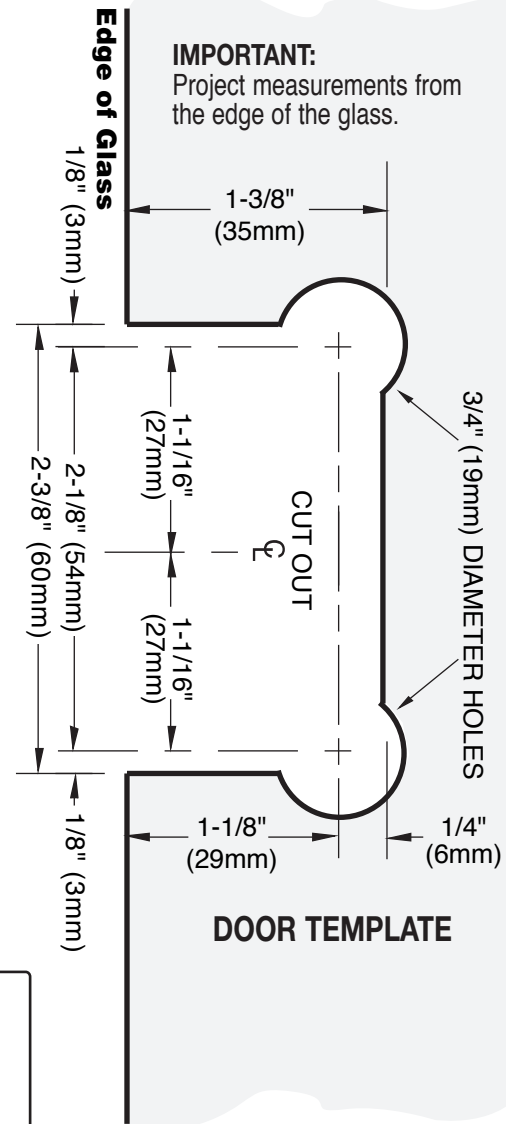
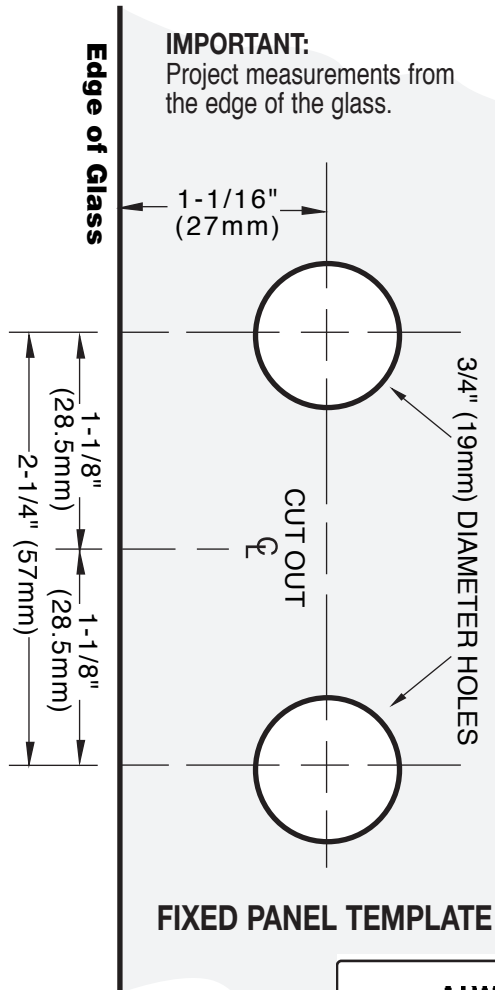
90° Glass to Glass Hinge

CAT No. PET090

(This hinge offers two different templates, one for the door and one for the fixed panel).

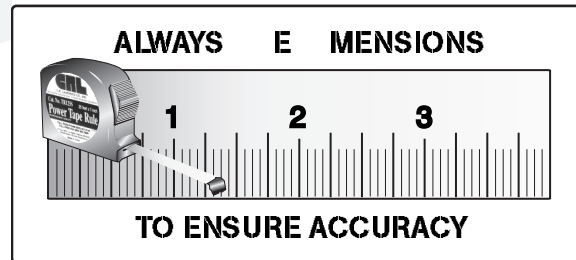
*Maximum Capacities Door	1/4" (6mm)		5/16" (8mm)	
	Weight	Width	Weight	Width
Using 2 Hinges	55 lbs.(25 kg)	31"(787mm)	55 lbs.(25 kg)	31"(787mm)
Using 3 Hinges	82 lbs.(37 kg)	34"(864mm)	82 lbs.(37 kg)	34"(864mm)

***NOTE:** Do not exceed either maximum weight or width when choosing proper quantity of hinges.



PETITE

90° Glass to Glass Hinge
CAT No. PET090

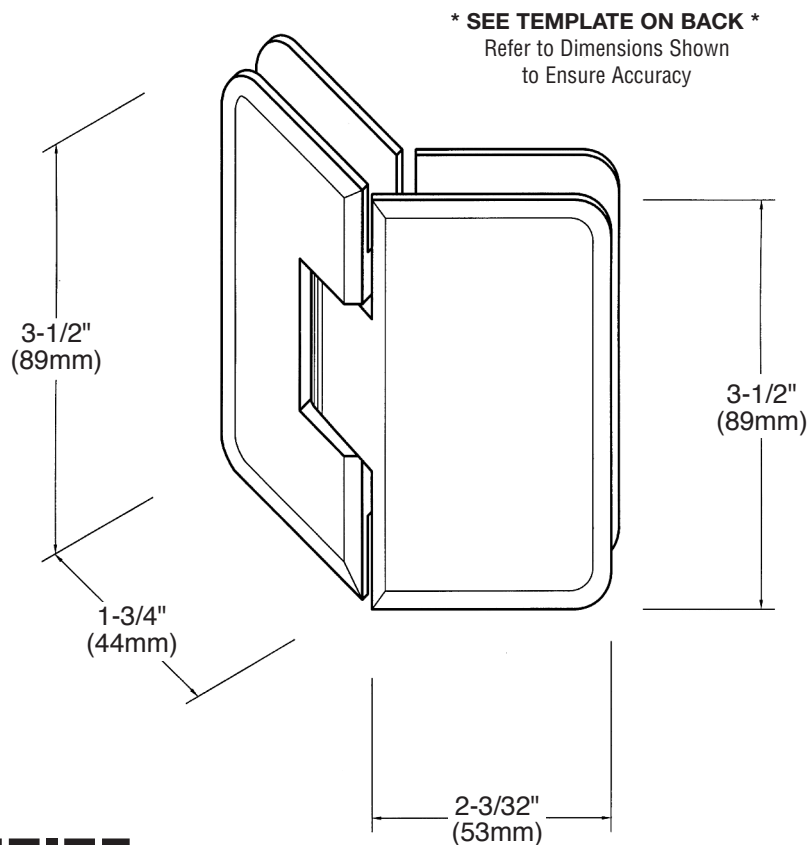




C.R. LAURENCE CO., INC.
PROFESSIONAL QUALITY

Important Information:

The fixed panel measurements must be taken from the inside of the miter.



Specifications:

Glass Sizes: 1/4" (6mm) to 5/16" (8mm) thick tempered safety glass

Construction: Solid brass

Closing Type: Self-centering when within 15° of closed position

Cutout Required

Includes: Gaskets, screws and template

Use of Gaskets:

For 1/4"(6mm) Glass: Use one thick gasket on each side

For 5/16"(8mm) Glass: Use one thin gasket on each side

Recommendations:

For public safety, we recommend the use of only tempered safety glass.
Do not use power tools when installing these hinges.

Maintenance Guidelines:

- Never use an abrasive cleaner on the hardware. Many of the components are coated with a clear lacquer that will be irreparably damaged if subjected to harsh, abrasive chemicals. Advise your customer that drying the hardware with a clean, soft towel on a daily basis is the best way to maintain the hardware. If mineral deposits build-up, mix a couple of drops of a mild liquid soap (such as Ivory or a similar product) into a cup of warm water. Using a soft, non-abrasive cloth, clean the hardware. Rinse thoroughly with clean, warm water and dry.

PETITE

135° Glass-to-Glass Hinge

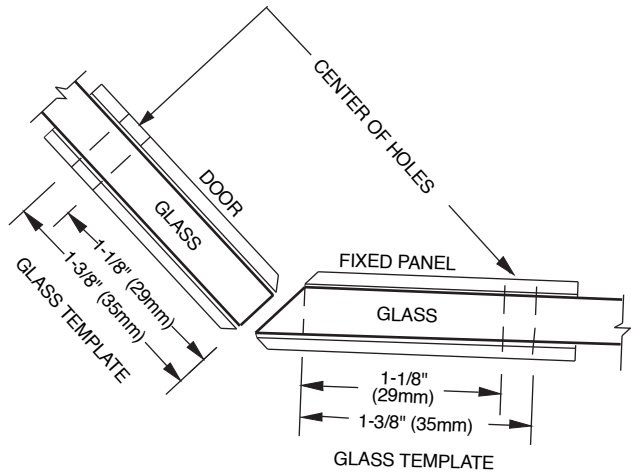
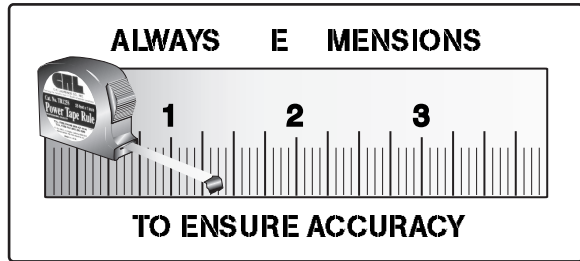
CAT No. PET135

(This hinge requires two different templates, one for the door and one for the mitered fixed panel).

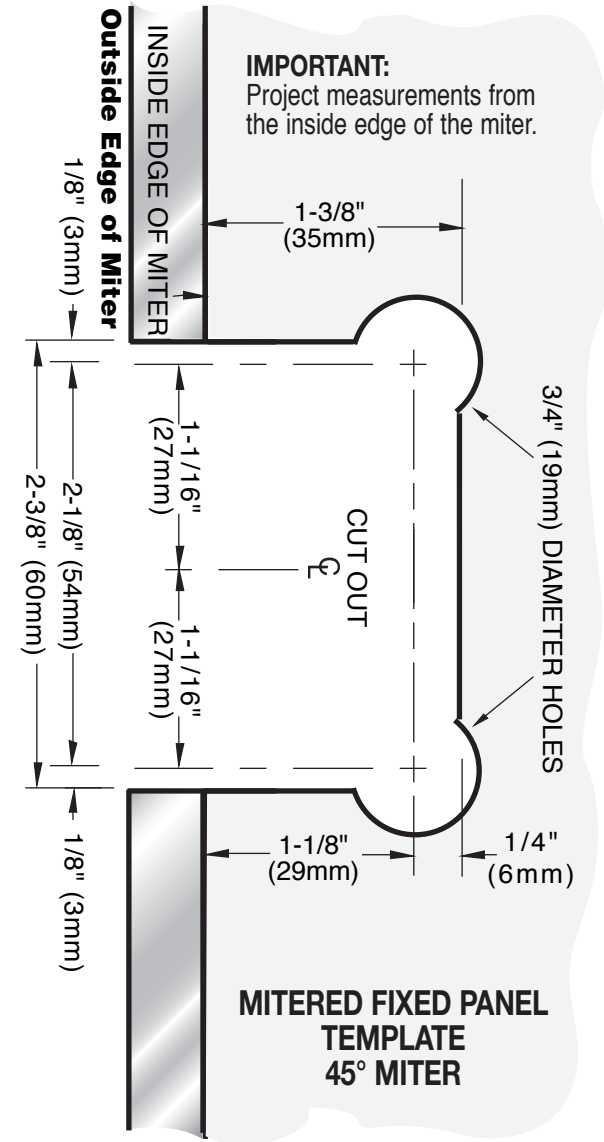
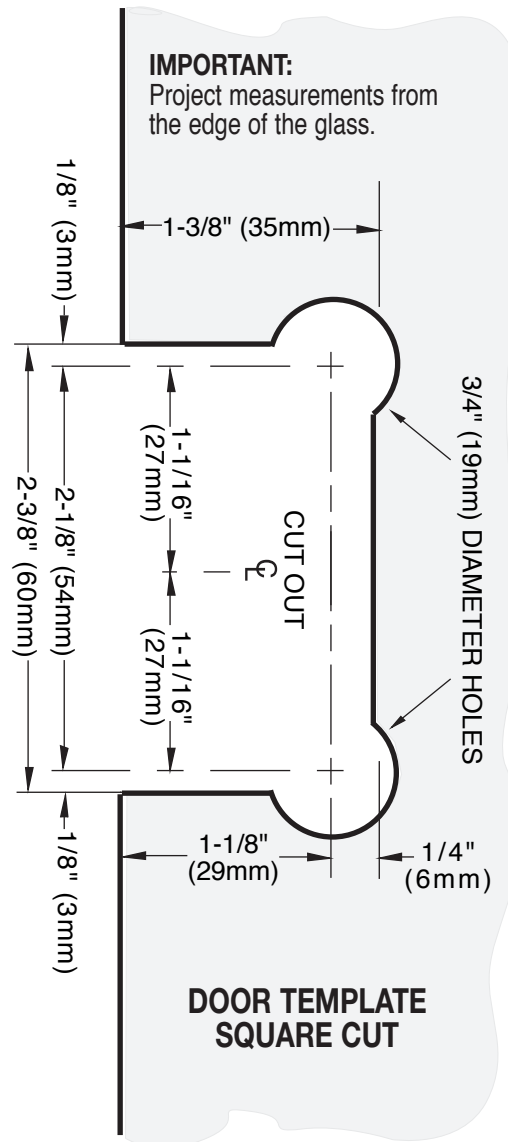
*Maximum Door Capacities	1/4" (6mm)		5/16" (8mm)	
	Weight	Width	Weight	Width
Using 2 Hinges	55 lbs.(25 kg)	31"(787mm)	55 lbs.(25 kg)	31"(787mm)
Using 3 Hinges	82 lbs.(37 kg)	34"(864mm)	82 lbs.(37 kg)	34"(864mm)

*NOTE: Do not exceed either maximum weight or width when choosing proper quantity of hinges.

4Q-7

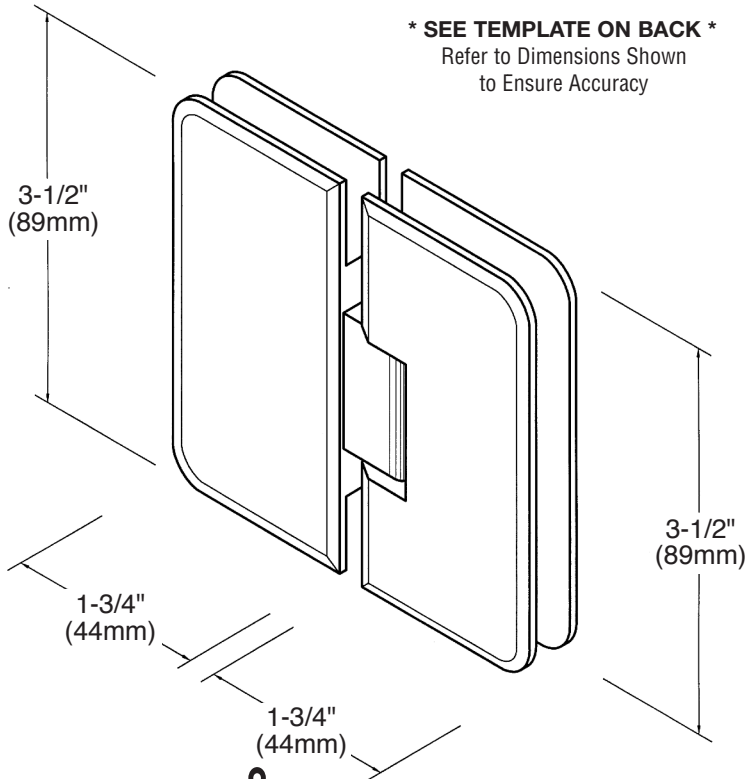


PETITE
135° Glass-to-Glass Hinge
CAT No. PET135





C.R. LAURENCE CO., INC.
PROFESSIONAL QUALITY



Important Information:

Door and fixed panel use the same cutout.

Specifications:

Glass Sizes: 1/4" (6mm) to 5/16" (8mm) thick tempered safety glass

Construction: Solid brass

Closing Type: Self-centering when within 15° of closed position

Cutout Required

Includes: Gaskets, screws and template

Use of Gaskets:

For 1/4"(6mm) Glass: Use one thick gasket on each side

For 5/16"(8mm) Glass: Use one thin gasket on each side

Recommendations:

For public safety, we recommend the use of only tempered safety glass.

Do not use power tools when installing these hinges.

Maintenance Guidelines:

- Never use an abrasive cleaner on the hardware. Many of the components are coated with a clear lacquer that will be irreparably damaged if subjected to harsh, abrasive chemicals. Advise your customer that drying the hardware with a clean, soft towel on a daily basis is the best way to maintain the hardware. If mineral deposits build-up, mix a couple of drops of a mild liquid soap (such as Ivory or a similar product) into a cup of warm water. Using a soft, non-abrasive cloth, clean the hardware. Rinse thoroughly with clean, warm water and dry.

PETITE 180°

180° Glass-to-Glass Hinge
 (Door Swings 90° In and 90° Out)

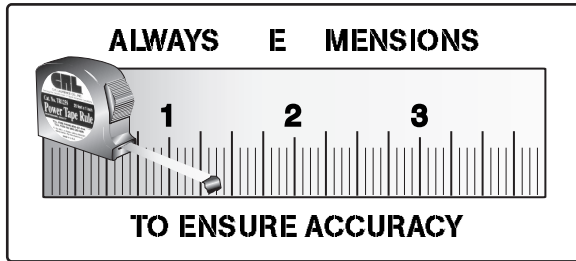
Cat No. PET180

*Maximum Door Capacities	1/4" (6mm)		5/16" (8mm)	
	Weight	Width	Weight	Width
Using 2 Hinges	55 lbs.(25 kg)	31"(787mm)	55 lbs.(25 kg)	31"(787mm)
Using 3 Hinges	82 lbs.(37 kg)	34"(864mm)	82 lbs.(37 kg)	34"(864mm)

*NOTE: Do not exceed either maximum weight or width when choosing proper quantity of hinges.



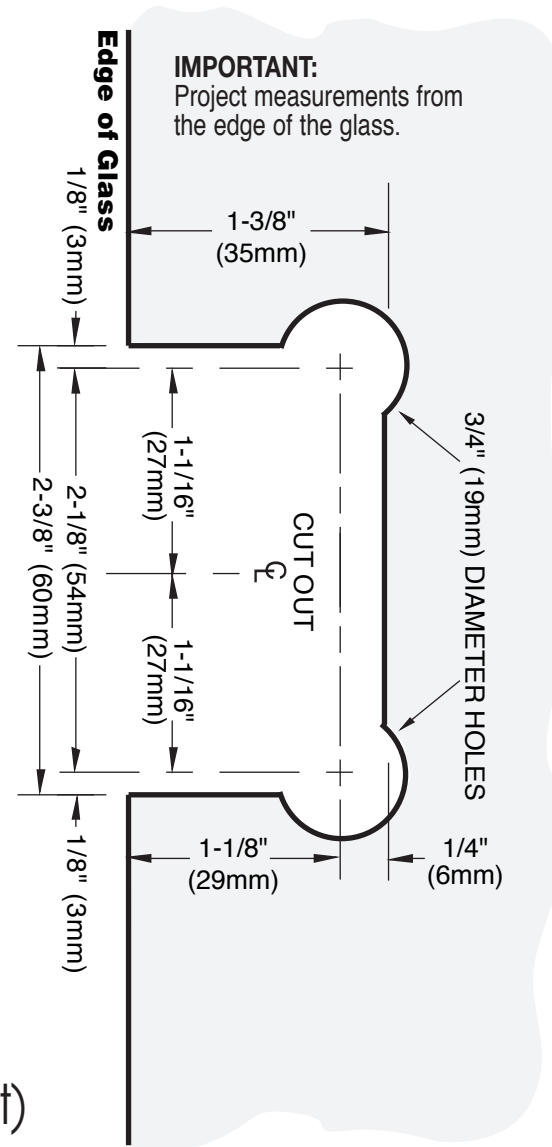
C.R. LAURENCE CO., INC.
PROFESSIONAL QUALITY



PETITE

180° Glass-to-Glass Hinge (Door Swings 90° In and 90° Out)

CAT No. PET180

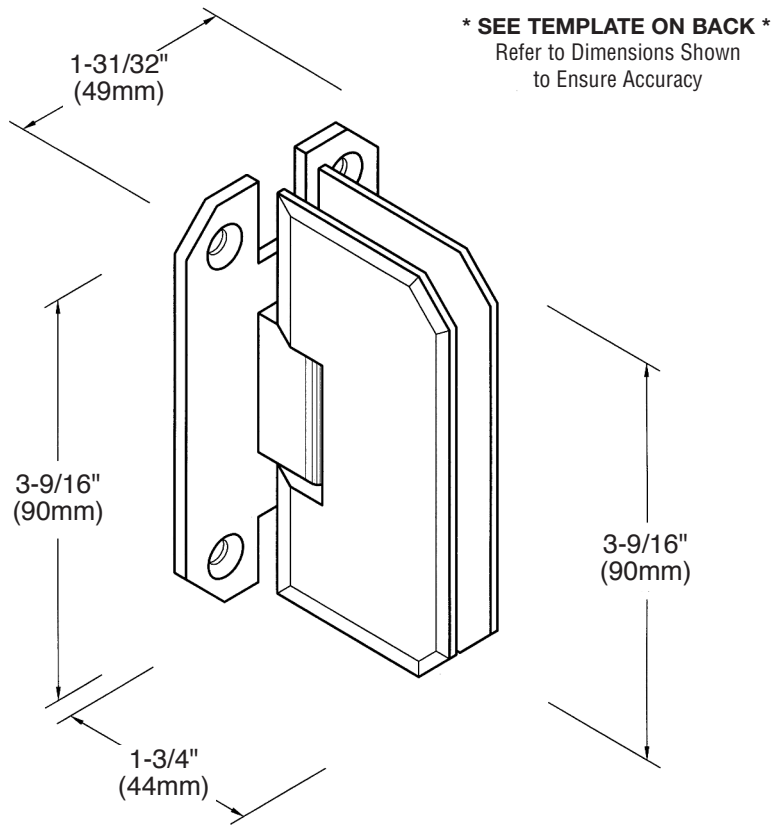


C.R. Laurence Co., Inc.
 crlaurence.com

For technical assistance in the United States call toll free (800) 421-6144; from Canada call toll free (877) 421-6144; Outside the U.S. and Canada call (323) 588-1281. Ask for Tech Sales at Extension 7740. Toll free fax (800) 458-7496.



C.R. LAURENCE CO., INC.
PROFESSIONAL QUALITY



Specifications:

Glass Sizes: 1/4" (6mm) to 5/16" (8mm) thick tempered safety glass

Construction: Solid brass

Closing Type: Self-centering when within 15° of closed position

Cutout Required

Includes: Gaskets, screws and template

Use of Gaskets:

For 1/4"(6mm) Glass: Use one thick gasket on each side

For 5/16"(8mm) Glass: Use one thin gasket on each side

Recommendations:

For public safety, we recommend the use of only tempered safety glass.
 Do not use power tools when installing these hinges.

Maintenance Guidelines:

- Never use an abrasive cleaner on the hardware. Many of the components are coated with a clear lacquer that will be irreparably damaged if subjected to harsh, abrasive chemicals. Advise your customer that drying the hardware with a clean, soft towel on a daily basis is the best way to maintain the hardware. If mineral deposits build-up, mix a couple of drops of a mild liquid soap (such as Ivory or a similar product) into a cup of warm water. Using a soft, non-abrasive cloth, clean the hardware. Rinse thoroughly with clean, warm water and dry.

MONACO

Wall Mount Hinge – Standard Back Plate

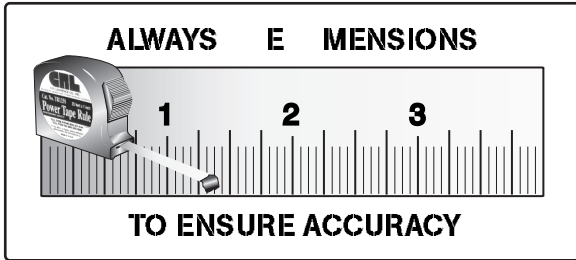
Cat No. MON037

*Maximum Capacities	1/4" (6mm)		5/16" (8mm)	
	Weight	Width	Weight	Width
Using 2 Hinges	55 lbs.(25 kg)	31"(787mm)	55 lbs.(25 kg)	31"(787mm)
Using 3 Hinges	82 lbs.(37 kg)	34"(864mm)	82 lbs.(37 kg)	34"(864mm)

*NOTE: Do not exceed either maximum weight or width when choosing proper quantity of hinges.

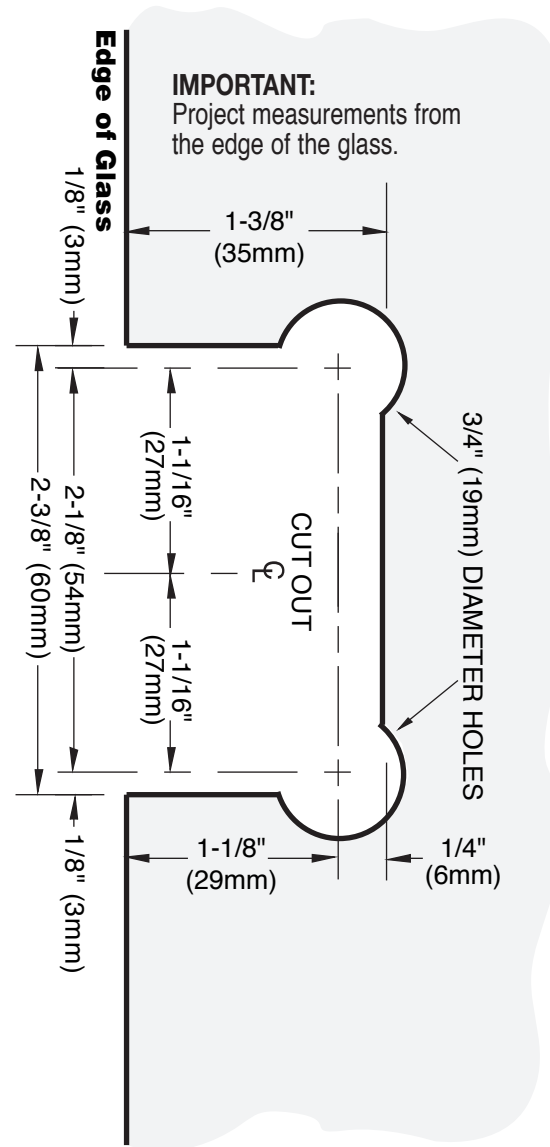


C.R. LAURENCE CO., INC.
PROFESSIONAL QUALITY



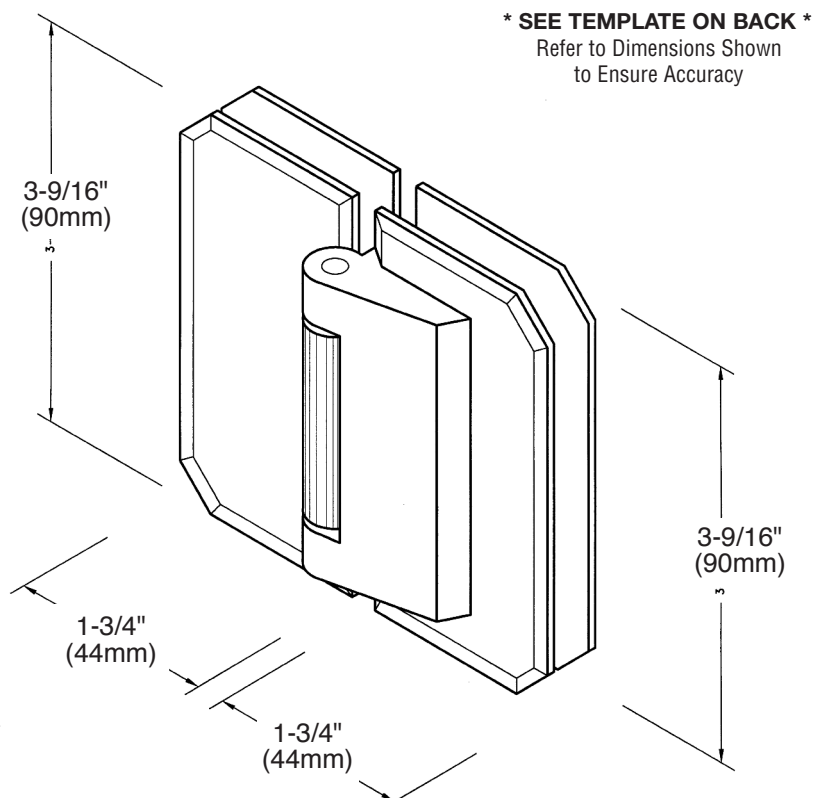
MONACO

Wall Mount Hinge – Standard Back Plate
CAT No. MON037





C.R. LAURENCE CO., INC.
PROFESSIONAL QUALITY



MONACO

180° Glass-to-Glass Hinge (Door Swings 180° Out Only)

CAT. No. MON181

*Maximum Capacities	1/4" (6mm)		5/16" (8mm)	
	Weight	Width	Weight	Width
Using 2 Hinges	55 lbs.(25 kg)	31"(787mm)	55 lbs.(25 kg)	31"(787mm)
Using 3 Hinges	82 lbs.(37 kg)	34"(864mm)	82 lbs.(37 kg)	34"(864mm)

*NOTE: Do not exceed either maximum weight or width when choosing proper quantity of hinges.

Important Information:

Door and fixed panel use the same hole pattern (no cutout required)

Specifications:

Glass Sizes: 1/4" (6mm) to 5/16" (8mm) thick tempered safety glass

Construction: Solid brass

Closing Type: Self-centering when within 15° of closed position.

Holes Only Required

Includes: Gaskets, screws and template

Use of Gaskets:

For 1/4"(6mm) Glass: Use one thick gasket on each side

For 5/16"(8mm) Glass: Use one thin gasket on each side

Recommendations:

For public safety, we recommend the use of only tempered safety glass.

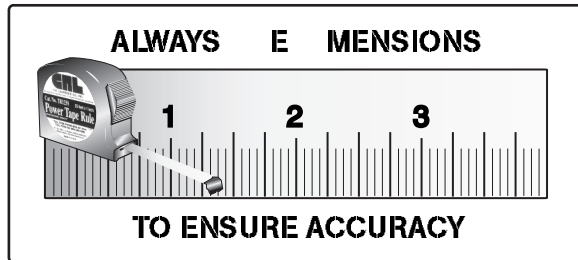
Do not use power tools when installing these hinges.

Maintenance Guidelines:

- Never use an abrasive cleaner on the hardware. Many of the components are coated with a clear lacquer that will be irreparably damaged if subjected to harsh, abrasive chemicals. Advise your customer that drying the hardware with a clean, soft towel on a daily basis is the best way to maintain the hardware. If mineral deposits build-up, mix a couple of drops of a mild liquid soap (such as Ivory or a similar product) into a cup of warm water. Using a soft, non-abrasive cloth, clean the hardware. Rinse thoroughly with clean, warm water and dry.

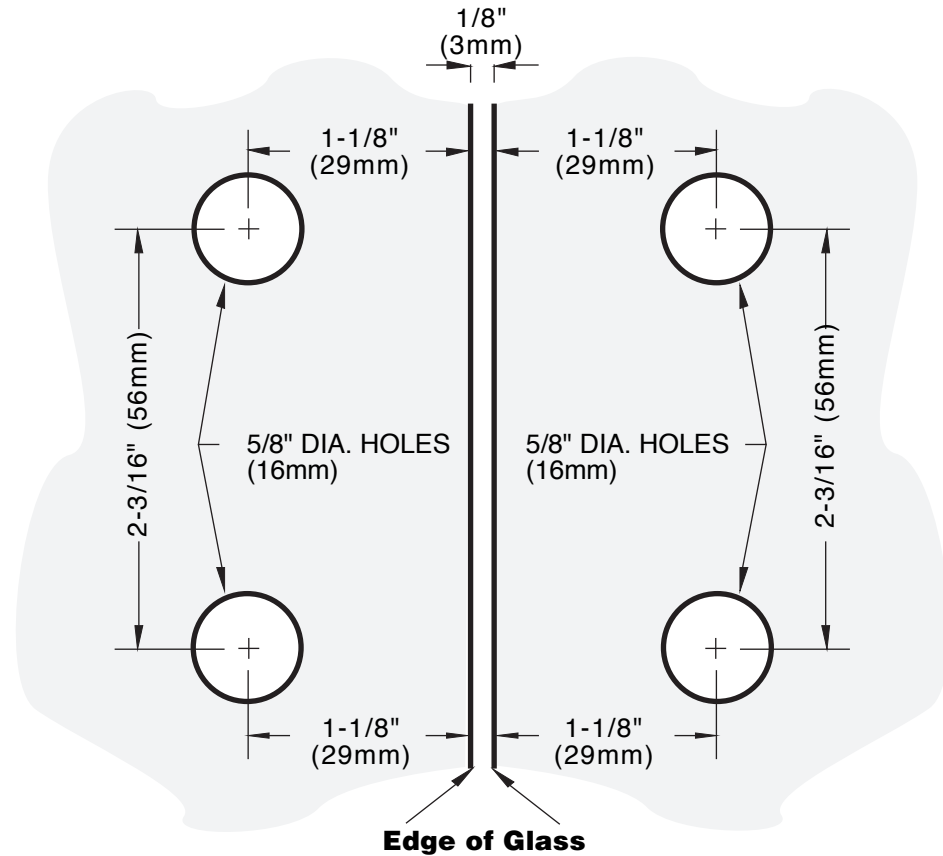


C.R. LAURENCE CO., INC.
PROFESSIONAL QUALITY



IMPORTANT:

Project measurements from the edge of the glass.



MONACO

180° Glass-to-Glass Hinge (Door Swings 180° Out Only)

CAT. No. MON181

C.R. Laurence Co., Inc.
 crlaurence.com

For technical assistance in the United States call toll free (800) 421-6144; from Canada call toll free (877) 421-6144; Outside the U.S. and Canada call (323) 588-1281. Ask for Tech Sales at Extension 7740. Toll free fax (800) 458-7496.



C.R. LAURENCE CO., INC.
PROFESSIONAL QUALITY

Important Information:

Door and fixed panel use the same hole pattern (no cutout required)

Specifications:

Glass Sizes: 1/4" (6mm) to 5/16" (8mm) thick tempered safety glass

Construction: Solid brass

Closing Type: Self-centering when within 15° of closed position.

Holes Only Required

Includes: Gaskets, screws and template

Use of Gaskets:

For 1/4"(6mm) Glass: Use one thick gasket on each side

For 5/16"(8mm) Glass: Use one thin gasket on each side

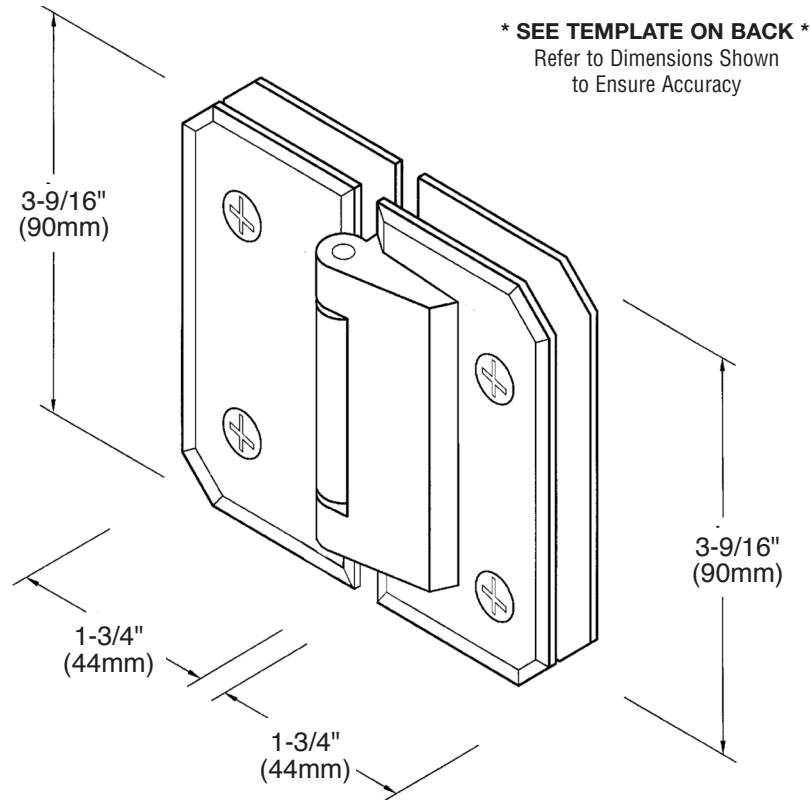
Recommendations:

For public safety, we recommend the use of only tempered safety glass.

Do not use power tools when installing these hinges.

Maintenance Guidelines:

- Never use an abrasive cleaner on the hardware. Many of the components are coated with a clear lacquer that will be irreparably damaged if subjected to harsh, abrasive chemicals. Advise your customer that drying the hardware with a clean, soft towel on a daily basis is the best way to maintain the hardware. If mineral deposits build-up, mix a couple of drops of a mild liquid soap (such as Ivory or a similar product) into a cup of warm water. Using a soft, non-abrasive cloth, clean the hardware. Rinse thoroughly with clean, warm water and dry.



MONACO

180° Glass-to-Glass Hinge (Door Swings 180° In Only)

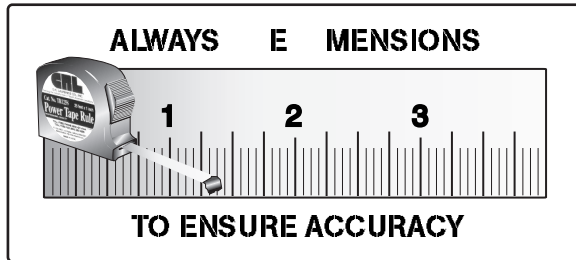
CAT. No. MON182

*Maximum Capacities	1/4" (6mm)		5/16" (8mm)	
	Weight	Width	Weight	Width
Using 2 Hinges	55 lbs.(25 kg)	31"(787mm)	55 lbs.(25 kg)	31"(787mm)
Using 3 Hinges	82 lbs.(37 kg)	34"(864mm)	82 lbs.(37 kg)	34"(864mm)

*NOTE: Do not exceed either maximum weight or width when choosing proper quantity of hinges.

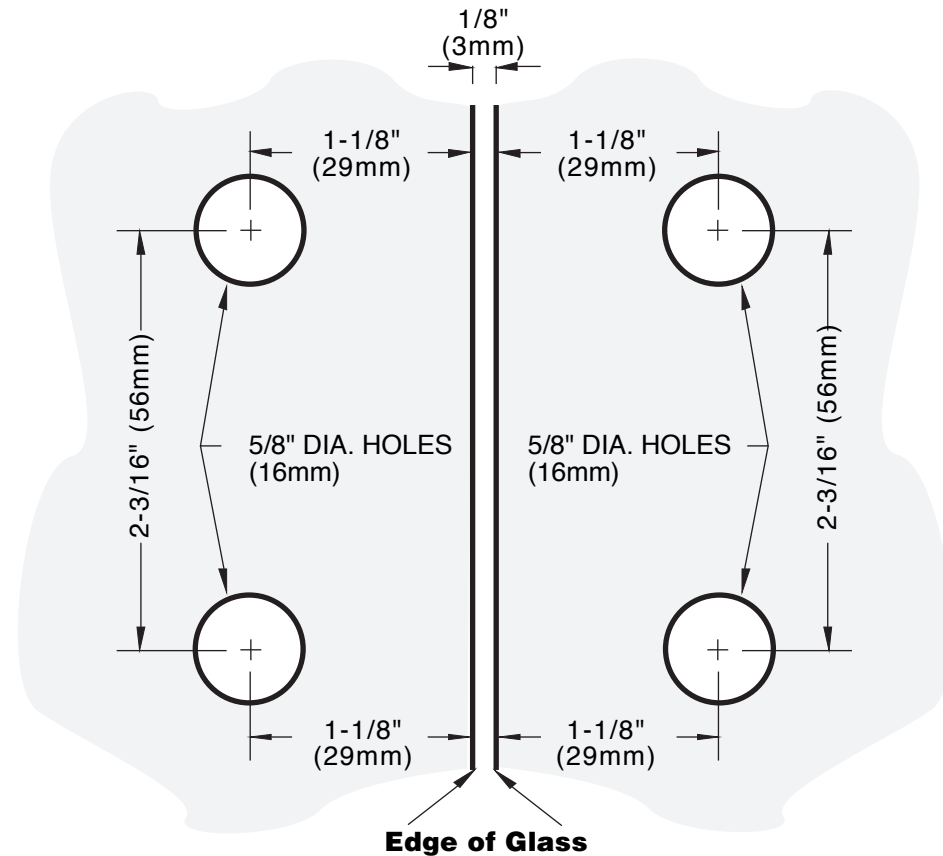


C.R. LAURENCE CO., INC.
PROFESSIONAL QUALITY



IMPORTANT:

Project measurements from the edge of the glass.



MONACO

180° Glass-to-Glass Hinge (Door Swings 180° In Only)

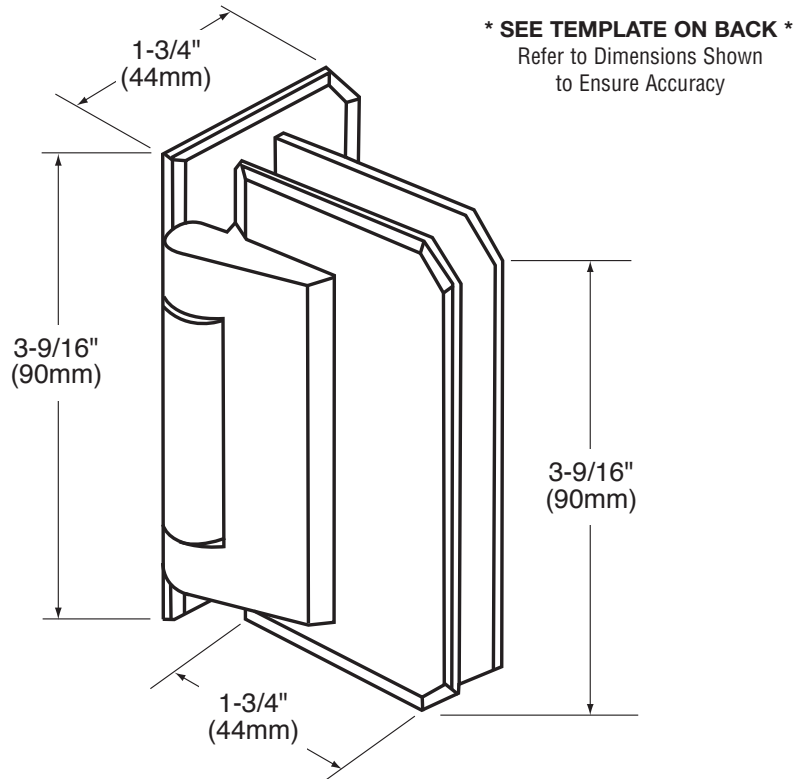
CAT. No. MON182

C.R. Laurence Co., Inc.
crlaurence.com

For technical assistance in the United States call toll free (800) 421-6144; from Canada call toll free (877) 421-6144; Outside the U.S. and Canada call (323) 588-1281. Ask for Tech Sales at Extension 7740. Toll free fax (800) 458-7496.



C.R. LAURENCE CO., INC.
PROFESSIONAL QUALITY



Specifications:

Glass Sizes: 1/4" (6mm) to 5/16" (8mm) thick tempered safety glass

Construction: Solid brass

Closing Type: Self-centering when within 15° of closed position

Holes Required

Includes: Gaskets, screws and template

Use of Gaskets:

For 1/4"(6mm) Glass: Use one thick gasket on each side

For 5/16"(8mm) Glass: Use one thin gasket on each side

Recommendations:

For public safety, we recommend the use of only tempered safety glass.

Do not use power tools when installing these hinges.

Maintenance Guidelines:

- Never use an abrasive cleaner on the hardware. Many of the components are coated with a clear lacquer that will be irreparably damaged if subjected to harsh, abrasive chemicals. Advise your customer that drying the hardware with a clean, soft towel on a daily basis is the best way to maintain the hardware. If mineral deposits build-up, mix a couple of drops of a mild liquid soap (such as Ivory or a similar product) into a cup of warm water. Using a soft, non-abrasive cloth, clean the hardware. Rinse thoroughly with clean warm water and dry.

MONACO

Wall Mount Hinge - Offset Hinge

CAT No. MON244

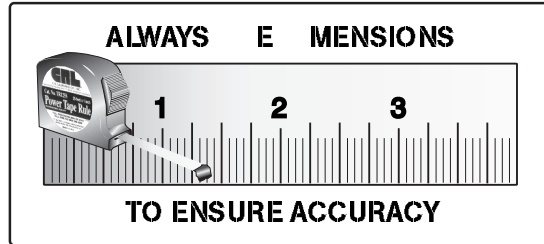
*Maximum Door Capacities	1/4" (6mm) Glass		5/16" (8mm) Glass	
	Weight	Width	Weight	Width
Using 2 Hinges	55 lbs.(25 kg)	31"(787mm)	55 lbs.(25 kg)	31"(787mm)
Using 3 Hinges	82 lbs.(37 kg)	34"(864 mm)	82 lbs.(37 kg)	34"(864 mm)

***NOTE:** Do not exceed either maximum weight or width when choosing proper quantity of hinges.

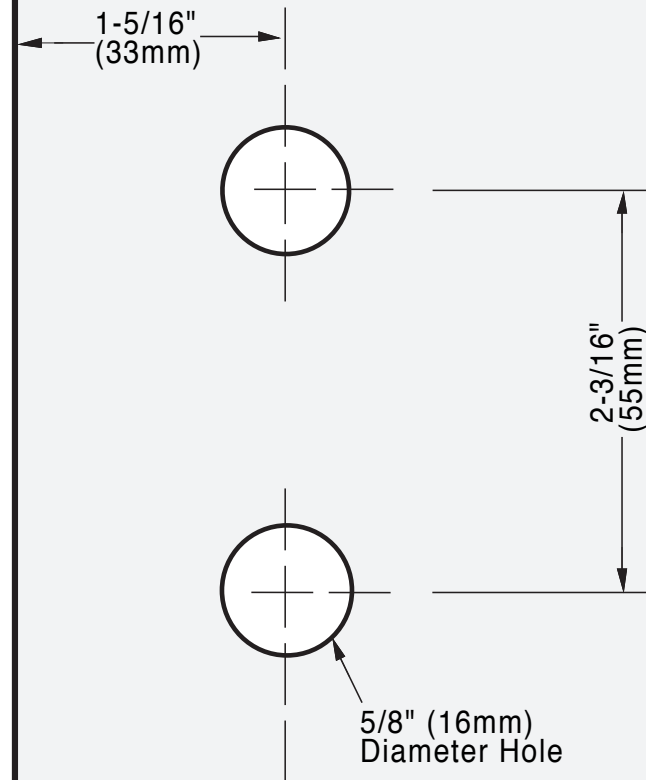
4R-15



C.R. LAURENCE CO., INC.
PROFESSIONAL QUALITY



IMPORTANT:
Project Measurements
from the edge of the glass



MONACO

Wall Mount Hinge - Offset Hinge

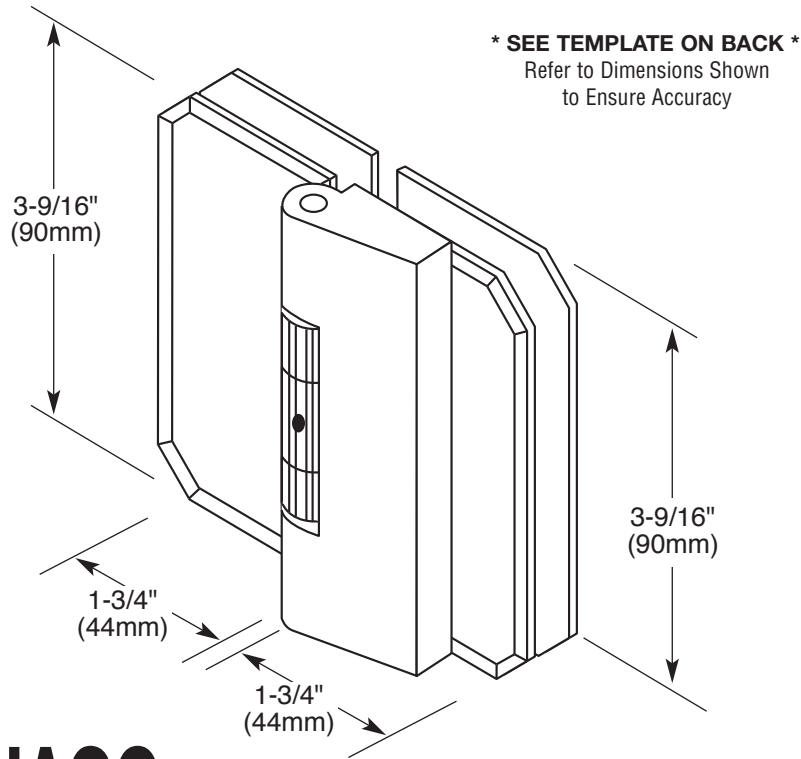
CAT No. MON244

C.R. Laurence Co., Inc.
crlaurence.com

For technical assistance in the United States call toll free (800) 421-6144; from Canada call toll free (877) 421-6144;
Outside the U.S. and Canada call (323) 588-1281. Ask for Tech Sales at Extension 7740. Toll free fax (800) 458-7496.



C.R. LAURENCE CO., INC.
PROFESSIONAL QUALITY



MONACO

Adjustable Glass-to-Glass Hinge (Door Swings 180° Out Only)
180° Application

Cat. No. MON183

*Maximum Capacities	1/4" (6mm)		5/16" (8mm)	
	Weight	Width	Weight	Width
Using 2 Hinges	55 lbs.(25 kg)	31"(787mm)	55 lbs.(25 kg)	31"(787mm)
Using 3 Hinges	82 lbs.(37 kg)	34"(864mm)	82 lbs.(37 kg)	34"(864mm)

*NOTE: Do not exceed either maximum weight or width when choosing proper quantity of hinges.

Important Information:

Door and fixed panel use the same hole pattern (no cutout required)

Specifications:

Glass Sizes: 1/4" (6mm) to 5/16" (8mm) thick tempered safety glass

Construction: Solid brass

Closing Type: Self-centering when within 15° of closed position.

Holes Only Required

Includes: Gaskets, screws and template

Use of Gaskets:

For 1/4"(6mm) Glass: Use one thick gasket on each side

For 5/16"(8mm) Glass: Use one thin gasket on each side

Recommendations:

For public safety, we recommend the use of only tempered safety glass.

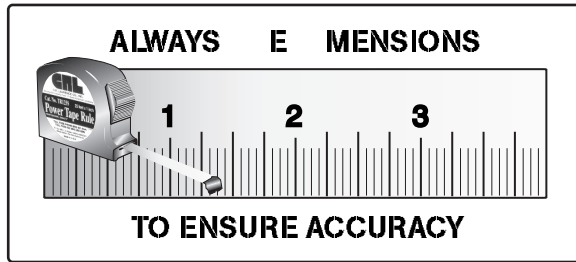
Do not use power tools when installing these hinges.

Maintenance Guidelines:

- Never use an abrasive cleaner on the hardware. Many of the components are coated with a clear lacquer that will be irreparably damaged if subjected to harsh, abrasive chemicals. Advise your customer that drying the hardware with a clean, soft towel on a daily basis is the best way to maintain the hardware. If mineral deposits build-up, mix a couple of drops of a mild liquid soap (such as Ivory or a similar product) into a cup of warm water. Using a soft, non-abrasive cloth, clean the hardware. Rinse thoroughly with clean, warm water and dry.

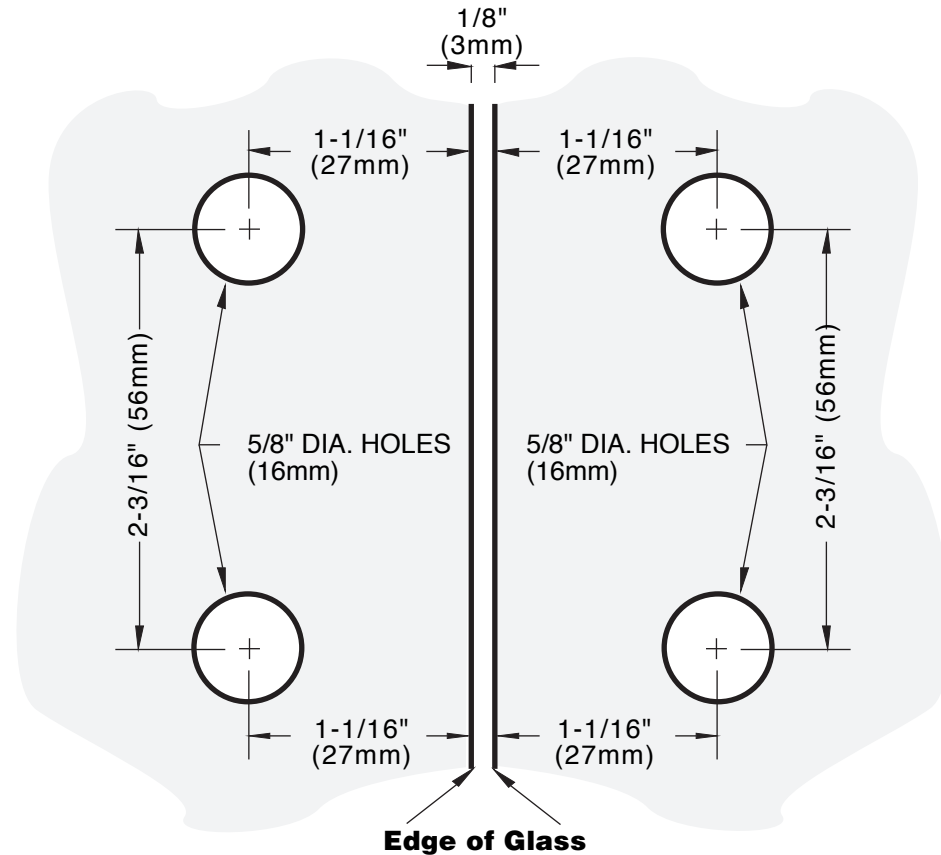


C.R. LAURENCE CO., INC.
PROFESSIONAL QUALITY



IMPORTANT:

Project measurements from the edge of the glass.



MONACO

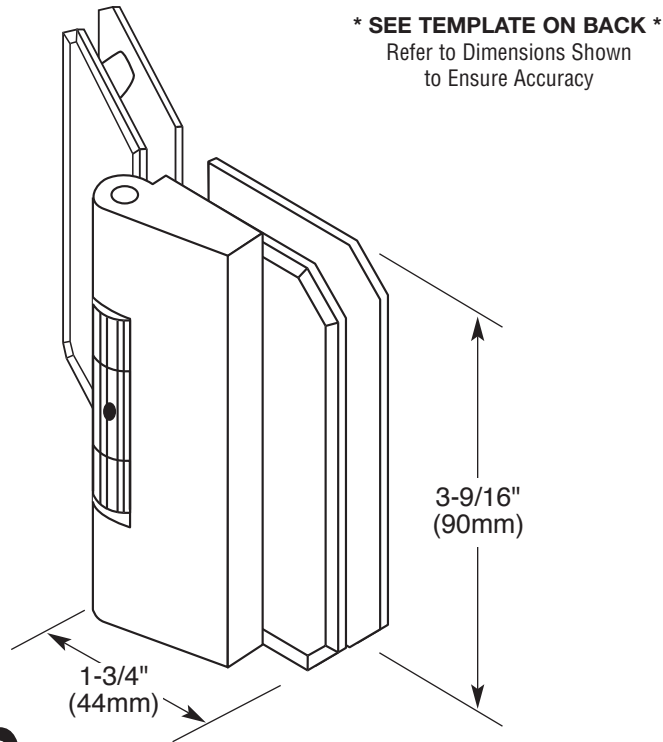
Adjustable Glass-to-Glass Hinge (Door Swings 180° Out Only)

180° Application

CAT. No. MON183



C.R. LAURENCE CO., INC.
PROFESSIONAL QUALITY



*** SEE TEMPLATE ON BACK ***
 Refer to Dimensions Shown
 to Ensure Accuracy

MONACO

Adjustable Glass-to-Glass Hinge (Door Swings 225° Out Only)
 135° Application

Cat. No. MON183

*Maximum Capacities	1/4" (6mm)		5/16" (8mm)	
	Weight	Width	Weight	Width
Using 2 Hinges	55 lbs.(25 kg)	31"(787mm)	55 lbs.(25 kg)	31"(787mm)
Using 3 Hinges	82 lbs.(37 kg)	34"(864mm)	82 lbs.(37 kg)	34"(864mm)

***NOTE:** Do not exceed either maximum weight or width when choosing proper quantity of hinges.

Important Information:

Door and fixed panel use the same hole pattern (no cutout required)
 Fixed panel holes are dimensioned from inside edge of miter.

Specifications:

Glass Sizes: 1/4" (6mm) to 5/16" (8mm) thick tempered safety glass

Construction: Solid brass

Closing Type: Self-centering when within 15° of closed position.

Holes Only Required

Includes: Gaskets, screws and template

Use of Gaskets:

For 1/4"(6mm) Glass: Use one thick gasket on each side

For 5/16"(8mm) Glass: Use one thin gasket on each side

Recommendations:

For public safety, we recommend the use of only tempered safety glass.

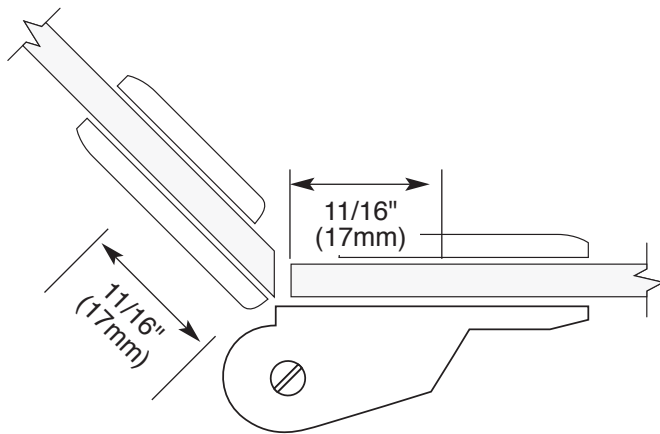
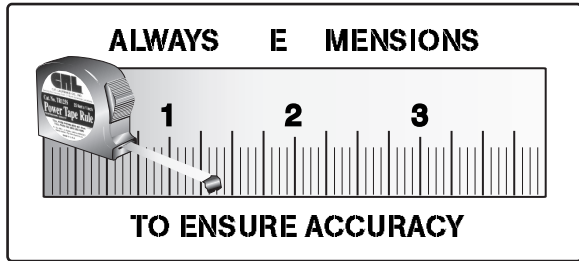
Do not use power tools when installing these hinges.

Maintenance Guidelines:

- Never use an abrasive cleaner on the hardware. Many of the components are coated with a clear lacquer that will be irreparably damaged if subjected to harsh, abrasive chemicals. Advise your customer that drying the hardware with a clean, soft towel on a daily basis is the best way to maintain the hardware. If mineral deposits build-up, mix a couple of drops of a mild liquid soap (such as Ivory or a similar product) into a cup of warm water. Using a soft, non-abrasive cloth, clean the hardware. Rinse thoroughly with clean, warm water and dry.



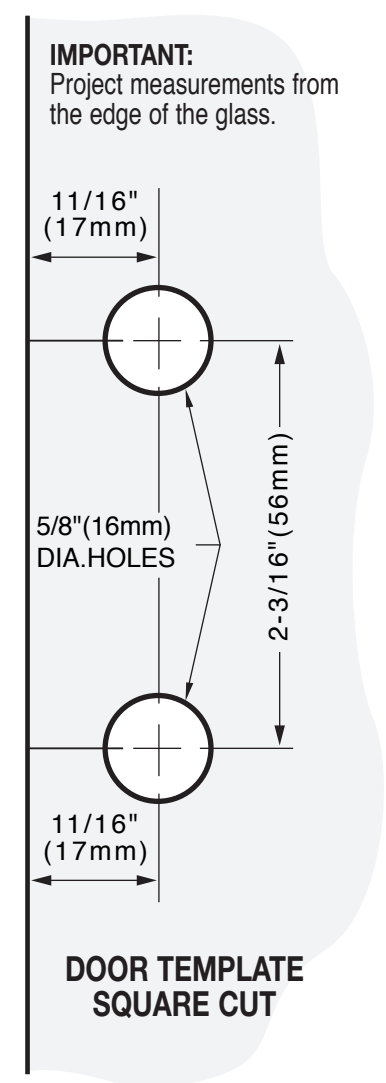
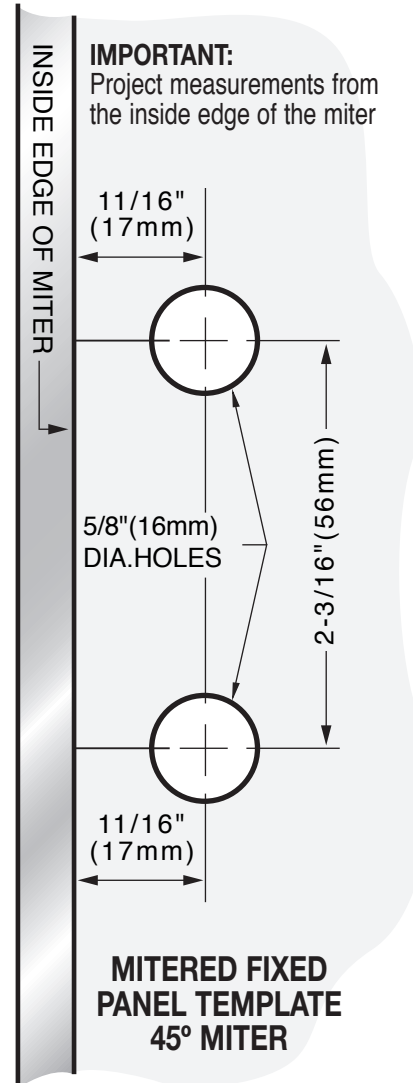
C.R. LAURENCE CO., INC.
 PROFESSIONAL QUALITY



MONACO

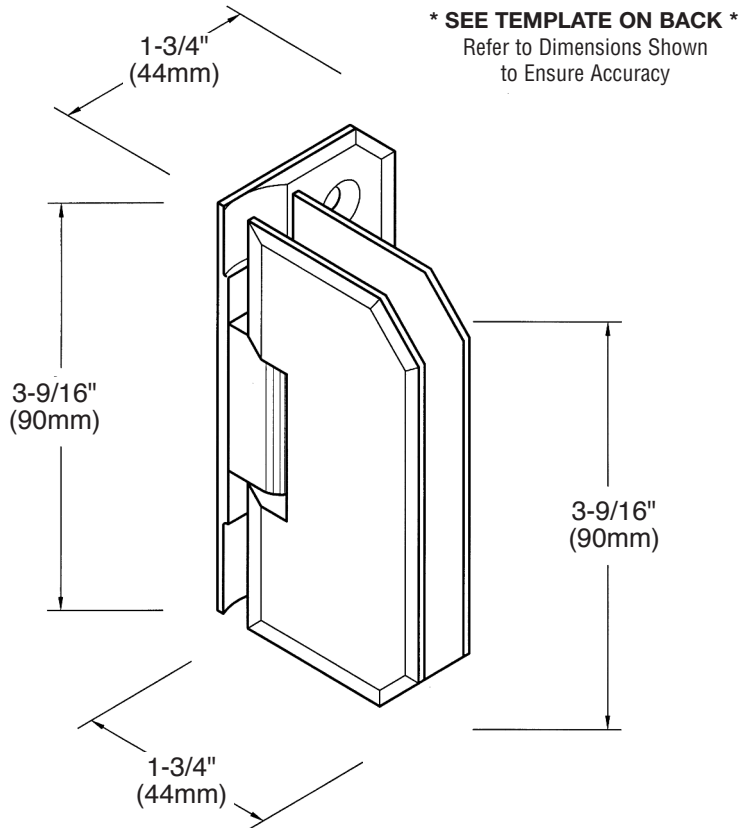
Adjustable Glass-to-Glass Hinge (Door Swings 225° Out Only)
 135° Application

CAT. No. MON183





C.R. LAURENCE CO., INC.
PROFESSIONAL QUALITY



MONACO

Wall Mount Hinge – Flush Back Plate

CAT No. MON044

*Maximum Capacities	1/4" (6mm)		5/16" (8mm)	
	Weight	Width	Weight	Width
Using 2 Hinges	55 lbs.(25 kg)	31"(787mm)	55 lbs.(25 kg)	31"(787mm)
Using 3 Hinges	82 lbs.(31 kg)	34"(864mm)	82 lbs.(37 kg)	34"(864mm)

*NOTE: Do not exceed either maximum weight or width when choosing proper quantity of hinges.

Specifications:

Glass Sizes: 1/4" (6mm) to 5/16" (8mm) thick tempered safety glass

Construction: Solid brass

Closing Type: Self-centering when within 15° of closed position

Cutout Required

Includes: Gaskets, screws and template

Use of Gaskets:

For 1/4"(6mm) Glass: Use one thick gasket on each side

For 5/16"(8mm) Glass: Use one thin gasket on each side

Recommendations:

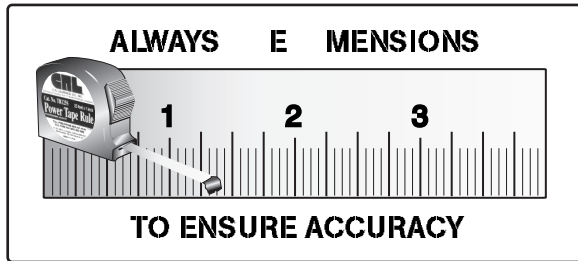
For public safety, we recommend the use of only tempered safety glass. Do not use power tools when installing these hinges.

Maintenance Guidelines:

- Never use an abrasive cleaner on the hardware. Many of the components are coated with a clear lacquer that will be irreparably damaged if subjected to harsh, abrasive chemicals. Advise your customer that drying the hardware with a clean, soft towel on a daily basis is the best way to maintain the hardware. If mineral deposits build-up, mix a couple of drops of a mild liquid soap (such as Ivory or a similar product) into a cup of warm water. Using a soft, non-abrasive cloth, clean the hardware. Rinse thoroughly with clean, warm water and dry.



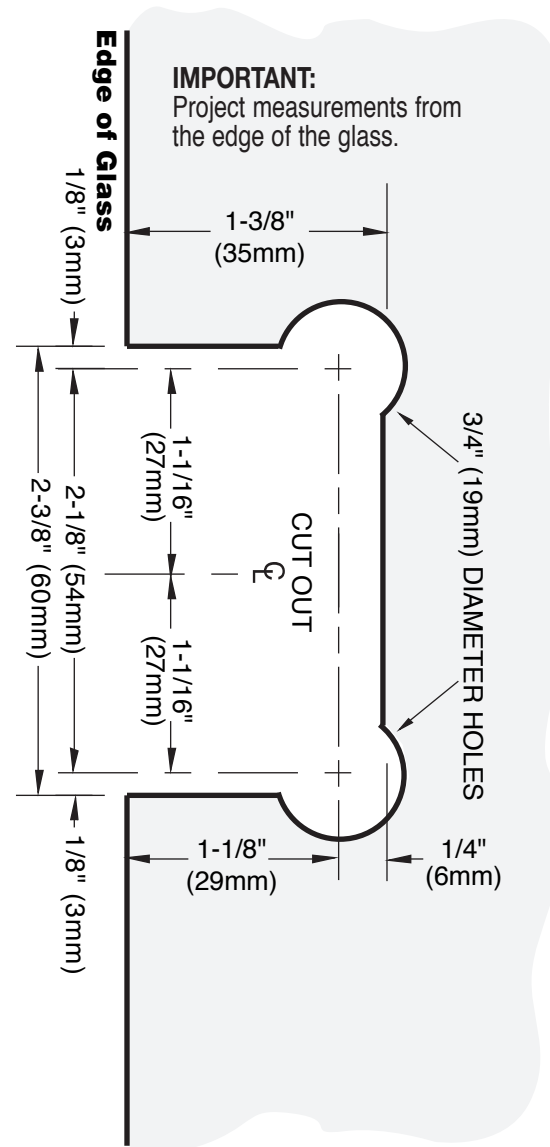
C.R. LAURENCE CO., INC.
PROFESSIONAL QUALITY



MONACO

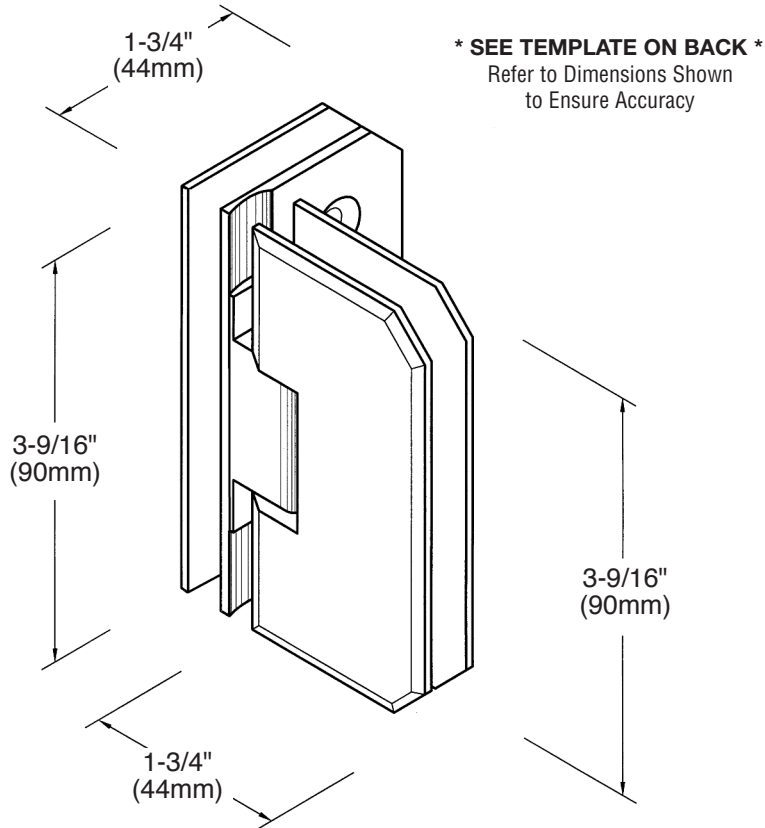
Wall Mount Hinge – Flush Back Plate

CAT No. MON044





C.R. LAURENCE CO., INC.
PROFESSIONAL QUALITY



MONACO

90° Glass-to-Glass Hinge

CAT No. MON090

(This hinge offers two different templates, one for the door and one for the fixed panel).

*Maximum Capacities	1/4" (6mm)		5/16" (8mm)	
	Weight	Width	Weight	Width
Using 2 Hinges	55 lbs.(25 kg)	31"(787mm)	55 lbs.(25 kg)	31"(787mm)
Using 3 Hinges	82 lbs.(37 kg)	34"(864mm)	82 lbs.(37 kg)	34"(864mm)

***NOTE:** Do not exceed either maximum weight or width when choosing proper quantity of hinges.

Important Information:

Door requires cutout. Fixed panel requires holes only.

Specifications:

Glass Sizes: 1/4" (6mm) to 5/16" (8mm) thick tempered safety glass

Construction: Solid brass

Closing Type: Self-centering when within 15° of closed position

Cutout Required for Door.

Fixed Panel Requires Holes Only.

Includes: Gaskets, screws and template

Use of Gaskets:

For 1/4"(6mm) Glass: Use one thick gasket on each side

For 5/16"(8mm) Glass: Use one thin gasket on each side

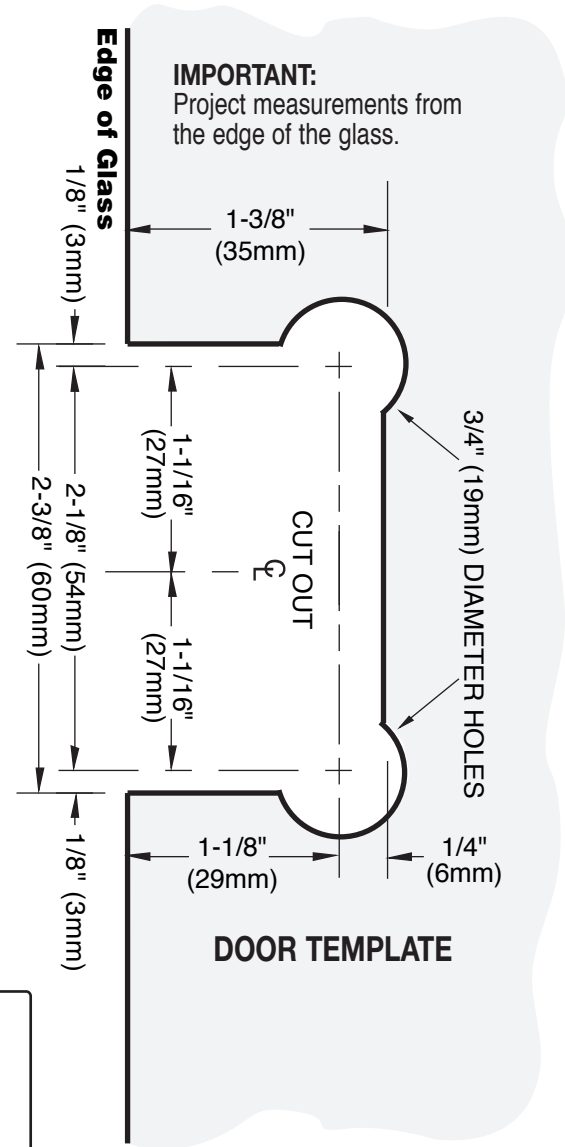
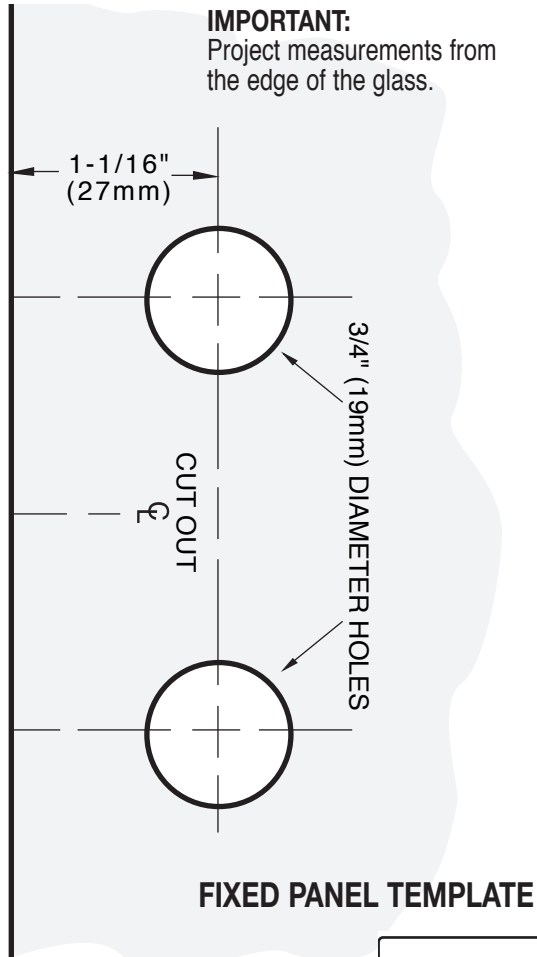
Recommendations:

For public safety, we recommend the use of only tempered safety glass.

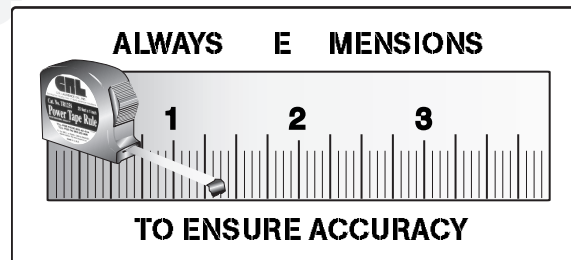
Do not use power tools when installing these hinges.

Maintenance Guidelines:

- Never use an abrasive cleaner on the hardware. Many of the components are coated with a clear lacquer that will be irreparably damaged if subjected to harsh, abrasive chemicals. Advise your customer that drying the hardware with a clean, soft towel on a daily basis is the best way to maintain the hardware. If mineral deposits build-up, mix a couple of drops of a mild liquid soap (such as Ivory or a similar product) into a cup of warm water. Using a soft, non-abrasive cloth, clean the hardware. Rinse thoroughly with clean, warm water and dry.

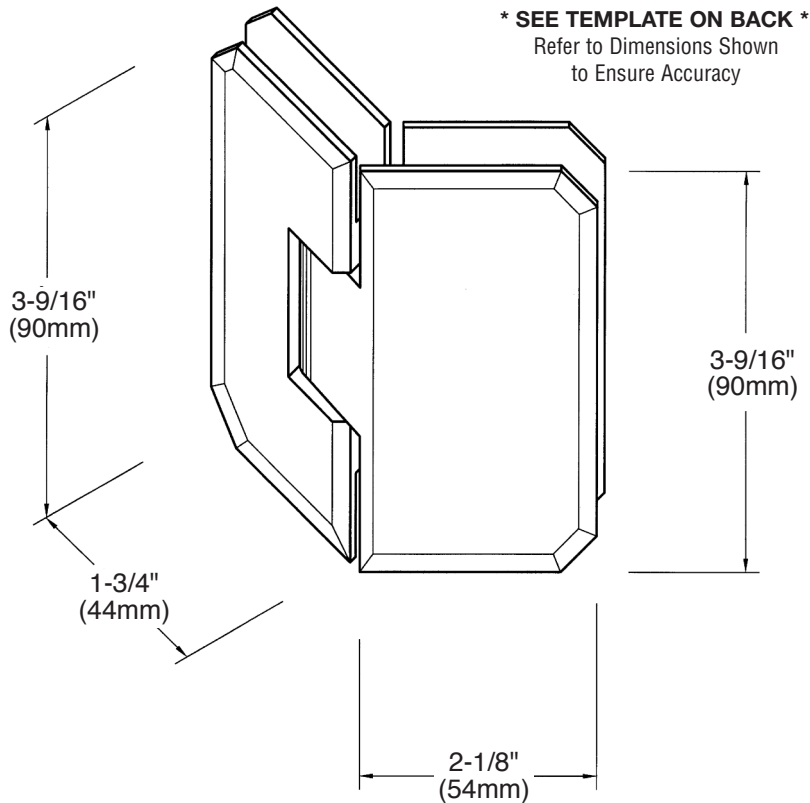


MONACO
 90° Glass-to-Glass Hinge
 CAT No. MON090





C.R. LAURENCE CO., INC.
PROFESSIONAL QUALITY



Important Information:

The fixed panel measurements must be taken from the inside of the miter.

Specifications:

Glass Sizes: 1/4" (6mm) to 5/16" (8mm) thick tempered safety glass

Construction: Solid brass

Closing Type: Self-centering when within 15° of closed position

Cutout Required

Includes: Gaskets, screws and template

Use of Gaskets:

For 1/4"(6mm) Glass: Use one thick gasket on each side

For 5/16"(8mm) Glass: Use one thin gasket on each side

Recommendations:

For public safety, we recommend the use of only tempered safety glass.
 Do not use power tools when installing these hinges.

Maintenance Guidelines:

- Never use an abrasive cleaner on the hardware. Many of the components are coated with a clear lacquer that will be irreparably damaged if subjected to harsh, abrasive chemicals. Advise your customer that drying the hardware with a clean, soft towel on a daily basis is the best way to maintain the hardware. If mineral deposits build-up, mix a couple of drops of a mild liquid soap (such as Ivory or a similar product) into a cup of warm water. Using a soft, non-abrasive cloth, clean the hardware. Rinse thoroughly with clean, warm water and dry.

MONACO

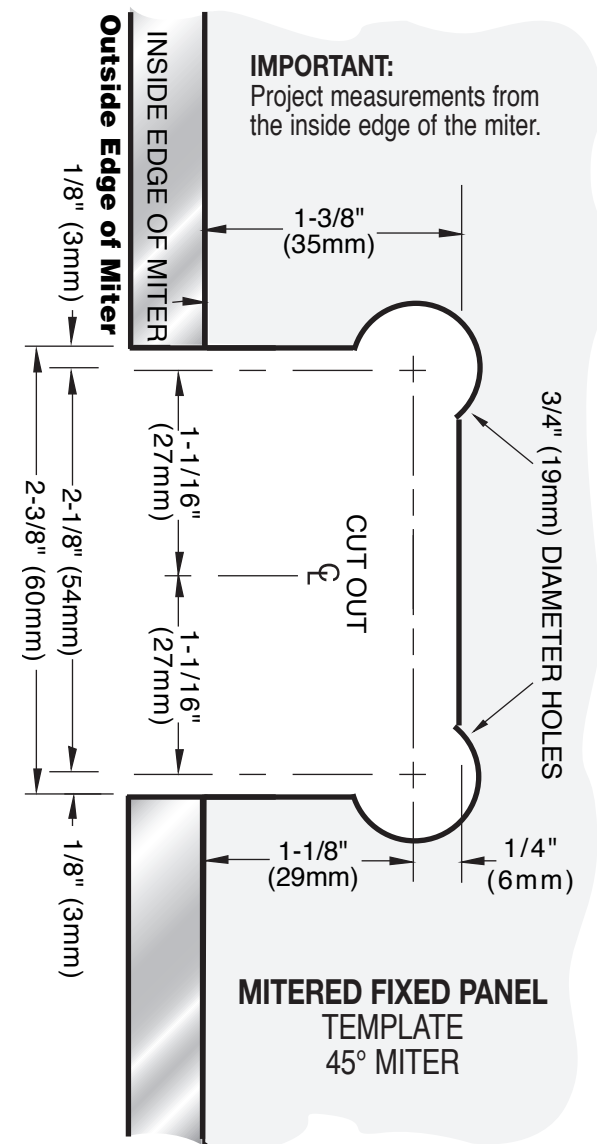
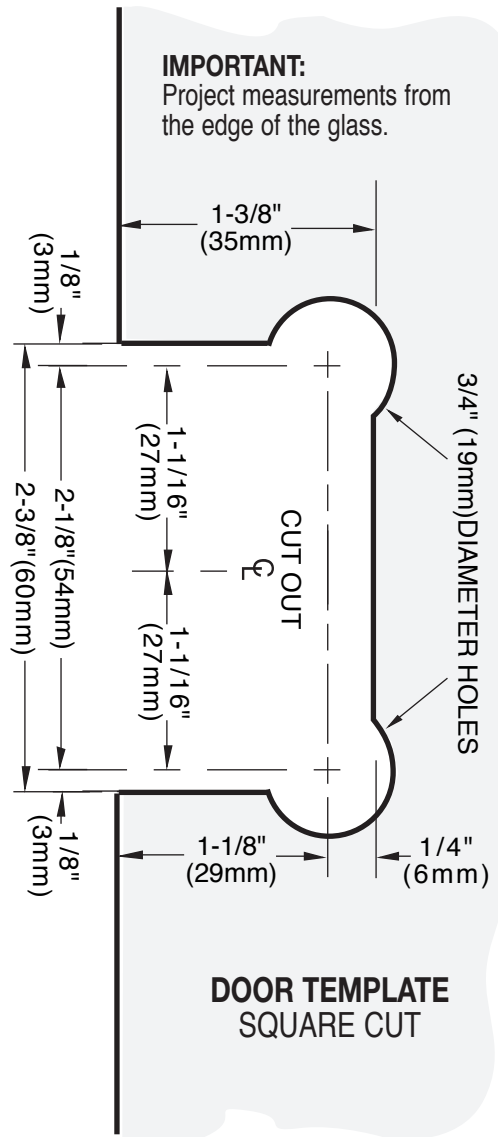
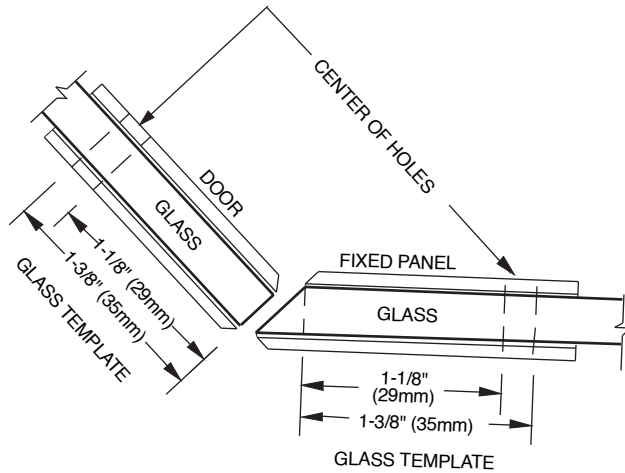
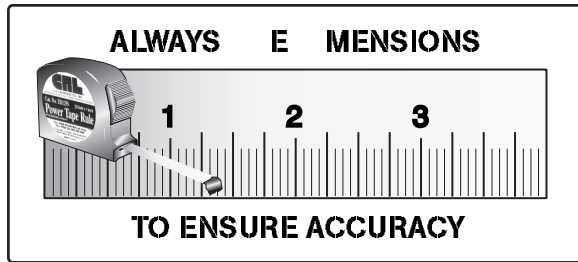
135° Glass-to-Glass Hinge

CAT No. MON135

(This hinge requires two different templates, one for the door and one for the mitered fixed panel).

*Maximum Capacities	1/4" (6mm)		5/16" (8mm)	
	Weight	Width	Weight	Width
Using 2 Hinges	55 lbs.(25 kg)	31"(787mm)	55 lbs.(25 kg)	31"(787mm)
Using 3 Hinges	82 lbs.(37 kg)	34"(864mm)	82 lbs.(37 kg)	34"(864mm)

*NOTE: Do not exceed either maximum weight or width when choosing proper quantity of hinges.



MONACO

135° Glass-to-Glass Hinge

CAT No. MON135



C.R. LAURENCE CO., INC.
PROFESSIONAL QUALITY

Important Information:

Door and fixed panel use the same cutout.

Specifications:

Glass Sizes: 1/4" (6mm) to 5/16" (8mm) thick tempered safety glass

Construction: Solid brass

Closing Type: Self-centering when within 15° of closed position

Cutout Required

Includes: Gaskets, screws and template

Use of Gaskets:

For 1/4"(6mm) Glass: Use one thick gasket on each side

For 5/16"(8mm) Glass: Use one thin gasket on each side

Recommendations:

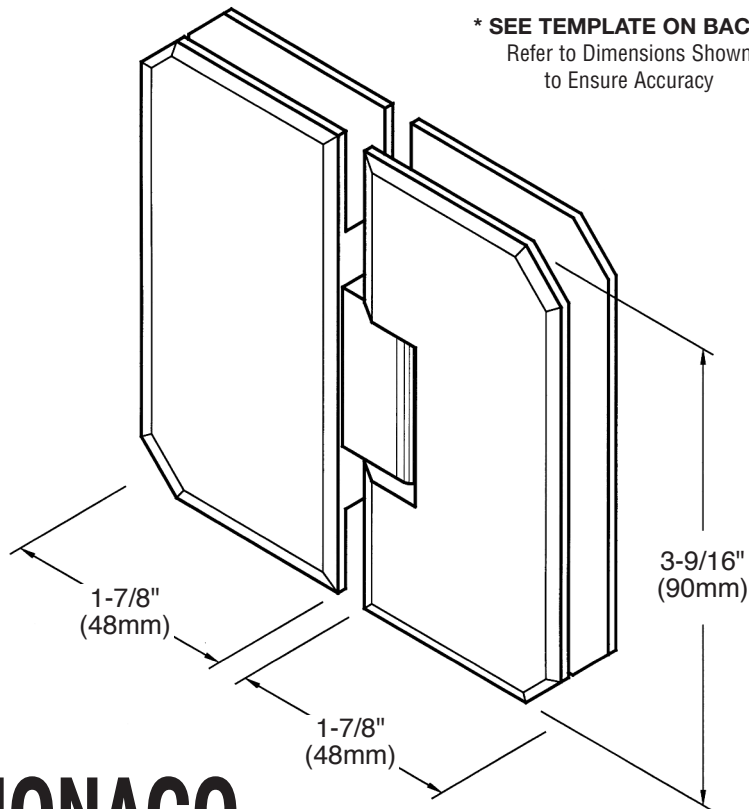
For public safety, we recommend the use of only tempered safety glass.

Do not use power tools when installing these hinges.

Maintenance Guidelines:

- Never use an abrasive cleaner on the hardware. Many of the components are coated with a clear lacquer that will be irreparably damaged if subjected to harsh, abrasive chemicals. Advise your customer that drying the hardware with a clean, soft towel on a daily basis is the best way to maintain the hardware. If mineral deposits build-up, mix a couple of drops of a mild liquid soap (such as Ivory or a similar product) into a cup of warm water. Using a soft, non-abrasive cloth, clean the hardware. Rinse thoroughly with clean, warm water and dry.

*** SEE TEMPLATE ON BACK ***
Refer to Dimensions Shown
to Ensure Accuracy



MONACO

180° Glass-to-Glass Hinge
(Door Swings 90° In and 90° Out)

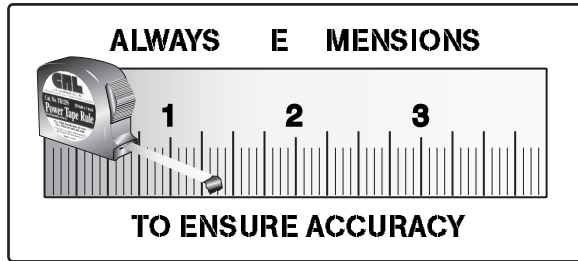
CAT No. MON180

*Maximum Capacities	1/4" (6mm)		5/16" (8mm)	
	Weight	Width	Weight	Width
Using 2 Hinges	55 lbs.(25 kg)	31"(787mm)	55 lbs.(25 kg)	31"(787mm)
Using 3 Hinges	82 lbs.(37 kg)	34"(864mm)	82 lbs.(37 kg)	34"(864mm)

***NOTE:** Do not exceed either maximum weight or width when choosing proper quantity of hinges.



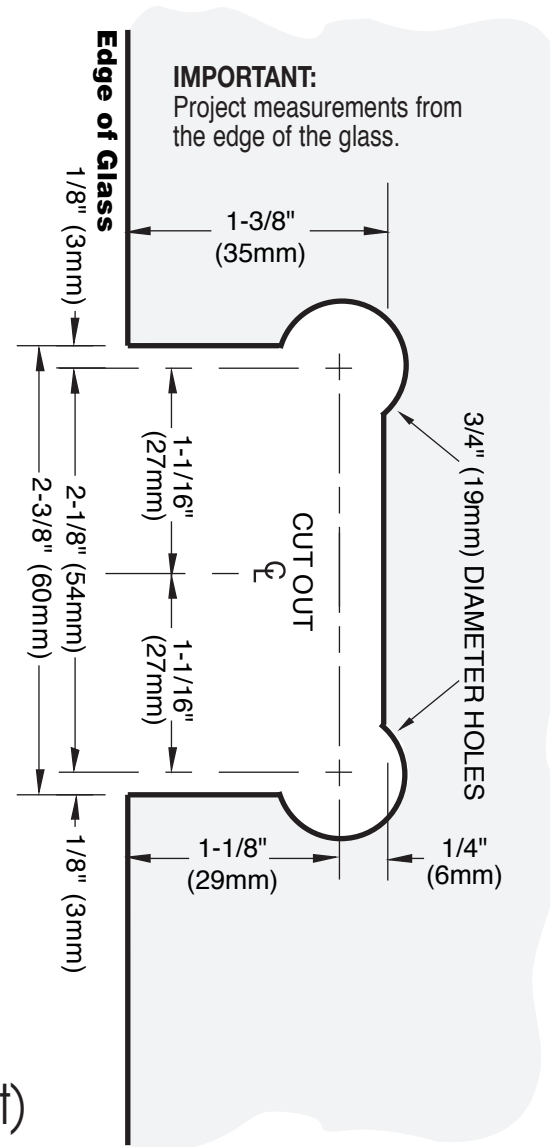
C.R. LAURENCE CO., INC.
PROFESSIONAL QUALITY



MONACO

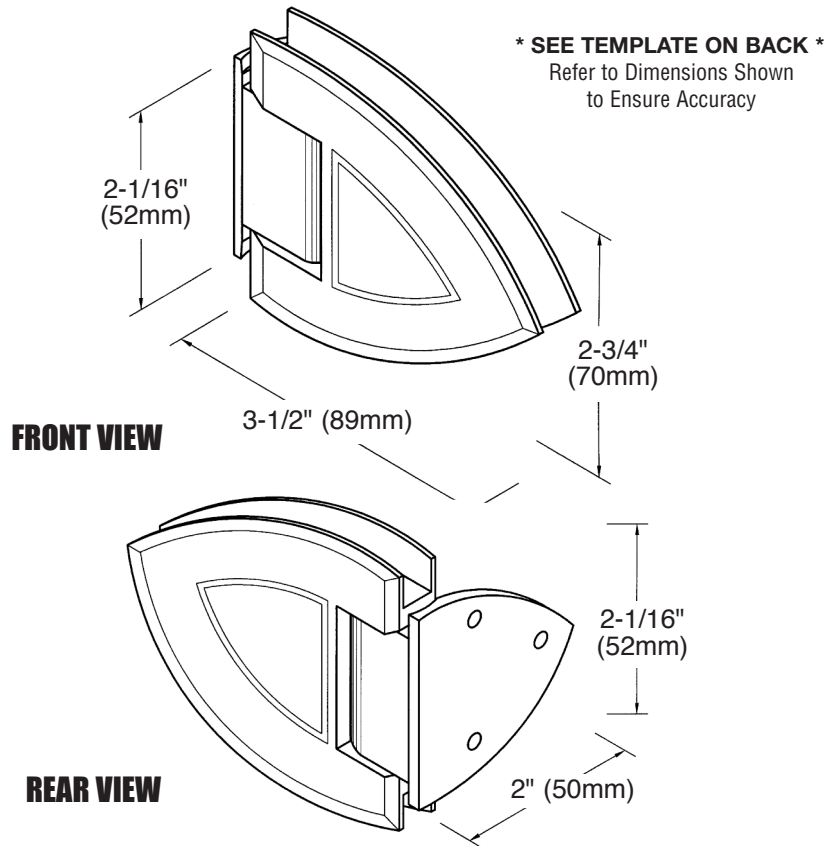
180° Glass-to-Glass Hinge (Door Swings 90° In and 90° Out)

CAT No. MON180





C.R. LAURENCE CO., INC.
PROFESSIONAL QUALITY



Important Information:

The Junior Cathedral Series of Hinges are equipped with a dual degree pivot pin. The pivot pin is set by the manufacturer for normal door closing position. You have the option of altering the closing position of the door 5 degrees by utilizing the opposite side of the pivot pin, which has been pre-machined (see Section 3 for this procedure).

Specifications:

Glass Sizes: 1/4" (6mm) to 5/16" (8mm) thick tempered safety glass

Construction: Solid brass

Closing Type: Self-centering when within 15° of closed position

Cutout and Hole Required

Includes: Gaskets, screws and template

Use of Gaskets:

For 1/4"(6mm) Glass: Use one thick gasket on each side

For 5/16"(8mm) Glass: Use one thin gasket on each side

Recommendations:

For public safety, we recommend the use of only tempered safety glass. Do not use power tools when installing these hinges.

Maintenance Guidelines:

- Our hinges are greased at the factory for quiet and trouble-free operation. If there is any squeaking that occurs after installation, put a drop of "3 in 1 Oil" (also known as "household oil") on the white nylon washer that the hinge body pivots on. This washer is the component that acts as a buffer, so the body of the hinge doesn't pivot directly on the brass center block. This solution doesn't require the disassembly of the hinge. **Note: Do not use spray lubricant on these hinges.** If the hinge has been disassembled, upon re-assembly, use white lithium grease to lubricate the interior mechanism.
- Never use an abrasive cleaner on the hardware. Many of the components are coated with a clear lacquer that will be irreparably damaged if subjected to harsh, abrasive chemicals. Advise your customer that drying the hardware with a clean, soft towel on a daily basis is the best way to maintain the hardware. If mineral deposits build-up, mix a couple of drops of a mild liquid soap (such as Ivory or a similar product) into a cup of warm water. Using a soft, non-abrasive cloth, clean the hardware. Rinse thoroughly with clean, warm water and dry.

JUNIOR CATHEDRAL

Wall Mount Hinge – Offset Back Plate

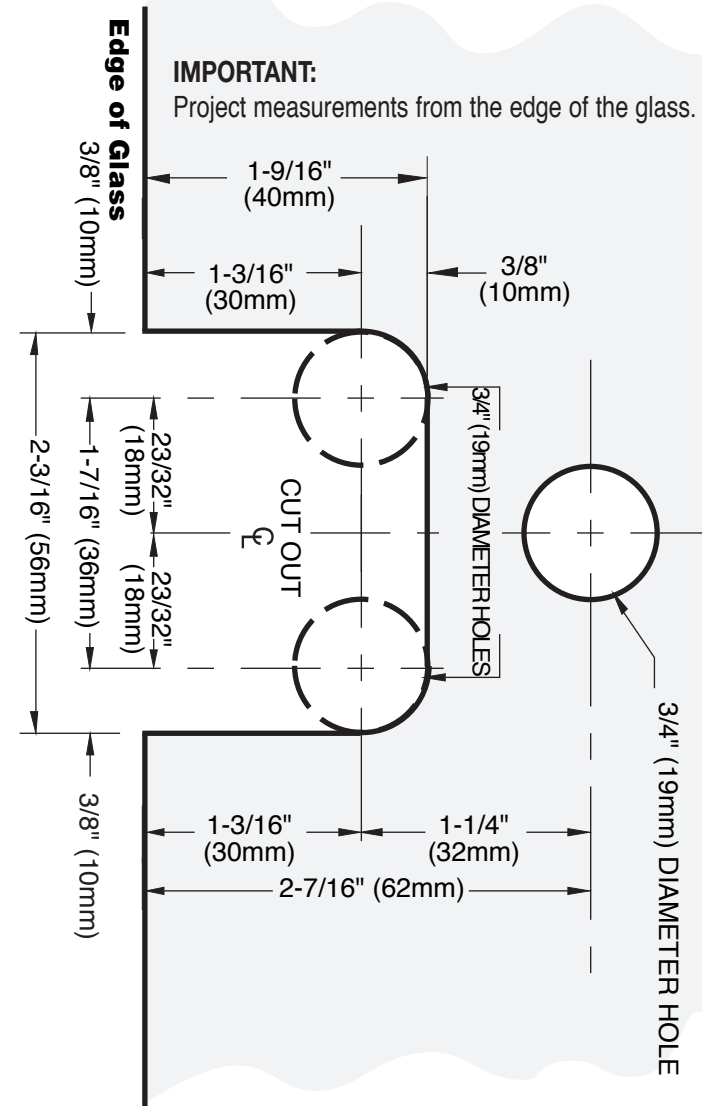
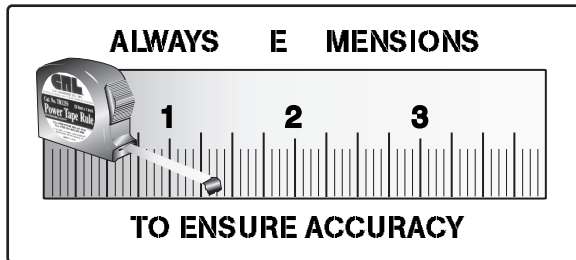
CAT No. JRCAT044

*Maximum Door Capacities	1/4" (6mm) Glass		5/16" (8mm) Glass	
	Weight	Width	Weight	Width
Using 2 Hinges	62 lbs.(28 kg)	28"(711mm)	62 lbs.(28 kg)	28"(711mm)
Using 3 Hinges	92 lbs.(42 kg)	32"(813mm)	92 lbs.(42 kg)	32"(813mm)

*NOTE: Do not exceed either maximum weight or width when choosing proper quantity of hinges.

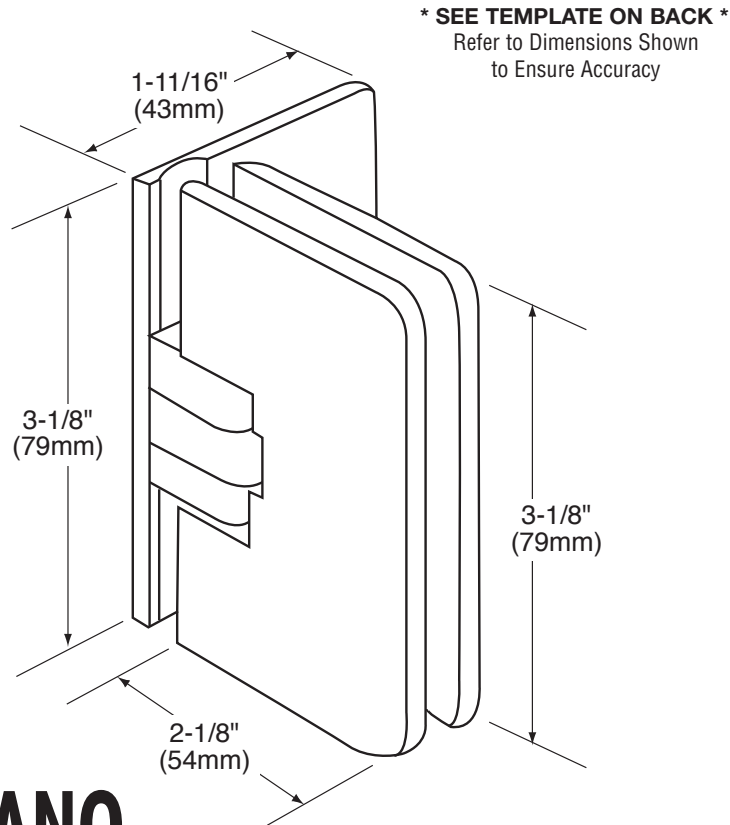


C.R. LAURENCE CO., INC.
PROFESSIONAL QUALITY



JUNIOR CATHEDRAL

Wall Mount Hinge – Offset Back Plate
CAT No. JRCAT044



MILANO

Wall Mount Hinge - Offset Back Plate

CAT No. M1L044

*Maximum Door Capacities	1/4" (6mm) Glass		5/16" (8mm) Glass	
	Weight	Width	Weight	Width
Using 2 Hinges	60 lbs.(27 kg)	28"(711mm)	60 lbs.(27 kg)	28"(711mm)
Using 3 Hinges	90 lbs.(41 kg)	32"(813 mm)	90 lbs.(41 kg)	32"(813 mm)

*NOTE: Do not exceed either maximum weight or width when choosing proper quantity of hinges.

Specifications:

Glass Sizes: 1/4" (6mm) to 5/16" (8mm) thick tempered safety glass

Construction: Solid brass

Closing Type: Precise closing to 0°

Cutout Required

Includes: Gaskets, screws and template

Use of Gaskets:

For 1/4"(6mm) Glass: Use one thick gasket on each side

For 5/16"(8mm) Glass: Use one thin gasket on each side

Recommendations:

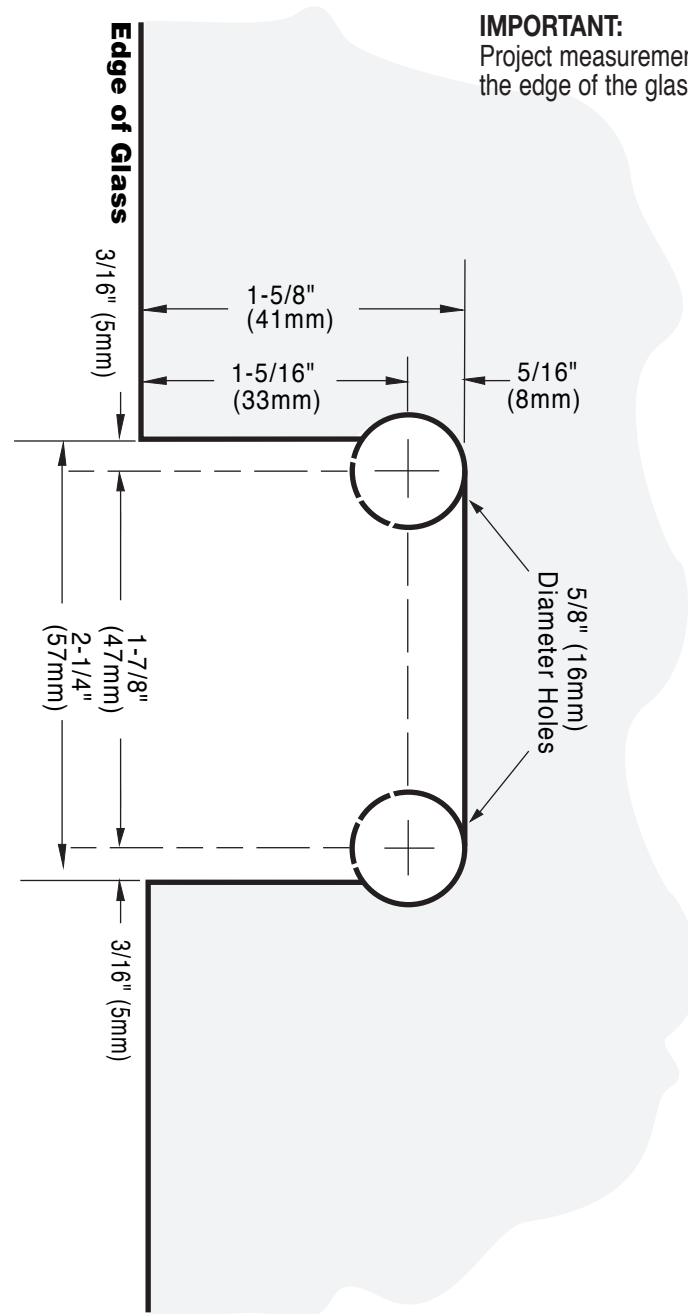
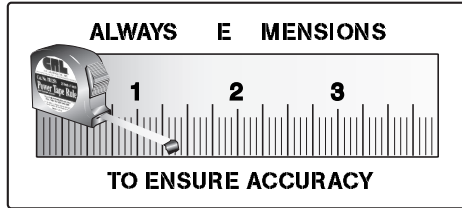
For public safety, we recommend the use of only tempered safety glass. Do not use power tools when installing these hinges.

Maintenance Guidelines:

- Never use an abrasive cleaner on the hardware. Many of the components are coated with a clear lacquer that will be irreparably damaged if subjected to harsh, abrasive chemicals. Advise your customer that drying the hardware with a clean, soft towel on a daily basis is the best way to maintain the hardware. If mineral deposits build-up, mix a couple of drops of a mild liquid soap (such as Ivory or a similar product) into a cup of warm water. Using a soft, non-abrasive cloth, clean the hardware. Rinse thoroughly with clean warm water and dry.



C.R. LAURENCE CO., INC.
PROFESSIONAL QUALITY



IMPORTANT:
 Project measurements from the edge of the glass.

MILANO

Wall Mount Hinge - Offset Back Plate

Cat No. M1L044

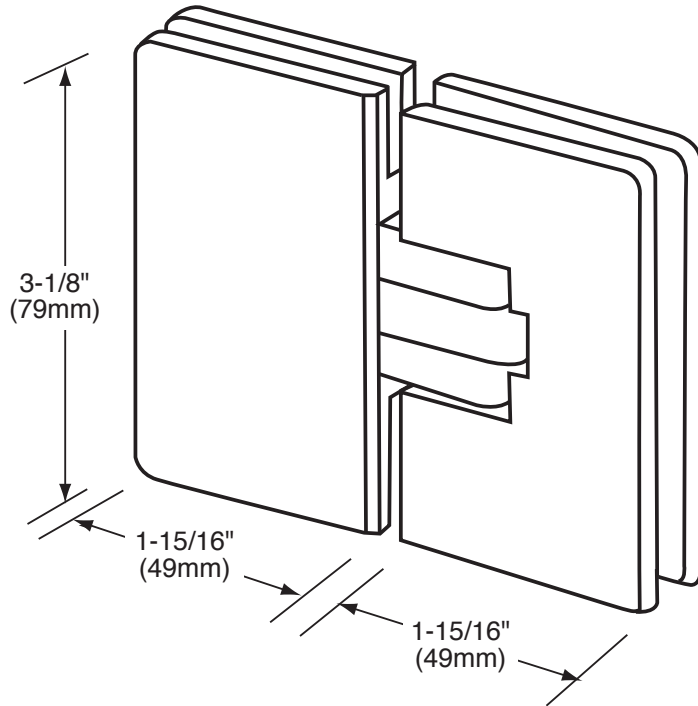
C.R. Laurence Co., Inc.
 crlaurence.com

For technical assistance in the United States call toll free (800) 421-6144; from Canada call toll free (877) 421-6144; Outside the U.S. and Canada call (323) 588-1281. Ask for Tech Sales at Extension 7740. Toll free fax (800) 458-7496.



C.R. LAURENCE CO., INC.
PROFESSIONAL QUALITY

*** SEE TEMPLATE ON BACK ***
 Refer to Dimensions Shown
 to Ensure Accuracy



Important Information:

Door and fixed panel use same cutout

Specifications:

Glass Sizes: 1/4" (6mm) to 5/16" (8mm) thick tempered safety glass

Construction: Solid brass

Closing Type: Precise closing to 0°

Cutout Required

Includes: Gaskets, screws and template

Use of Gaskets:

For 1/4"(6mm) Glass: Use one thick gasket on each side

For 5/16"(8mm) Glass: Use one thin gasket on each side

Recommendations:

For public safety, we recommend the use of only tempered safety glass.
 Do not use power tools when installing these hinges.

Maintenance Guidelines:

- Never use an abrasive cleaner on the hardware. Many of the components are coated with a clear lacquer that will be irreparably damaged if subjected to harsh, abrasive chemicals. Advise your customer that drying the hardware with a clean, soft towel on a daily basis is the best way to maintain the hardware. If mineral deposits build-up, mix a couple of drops of a mild liquid soap (such as Ivory or a similar product) into a cup of warm water. Using a soft, non-abrasive cloth, clean the hardware. Rinse thoroughly with clean warm water and dry.

MILANO

Glass-to-Glass Hinge

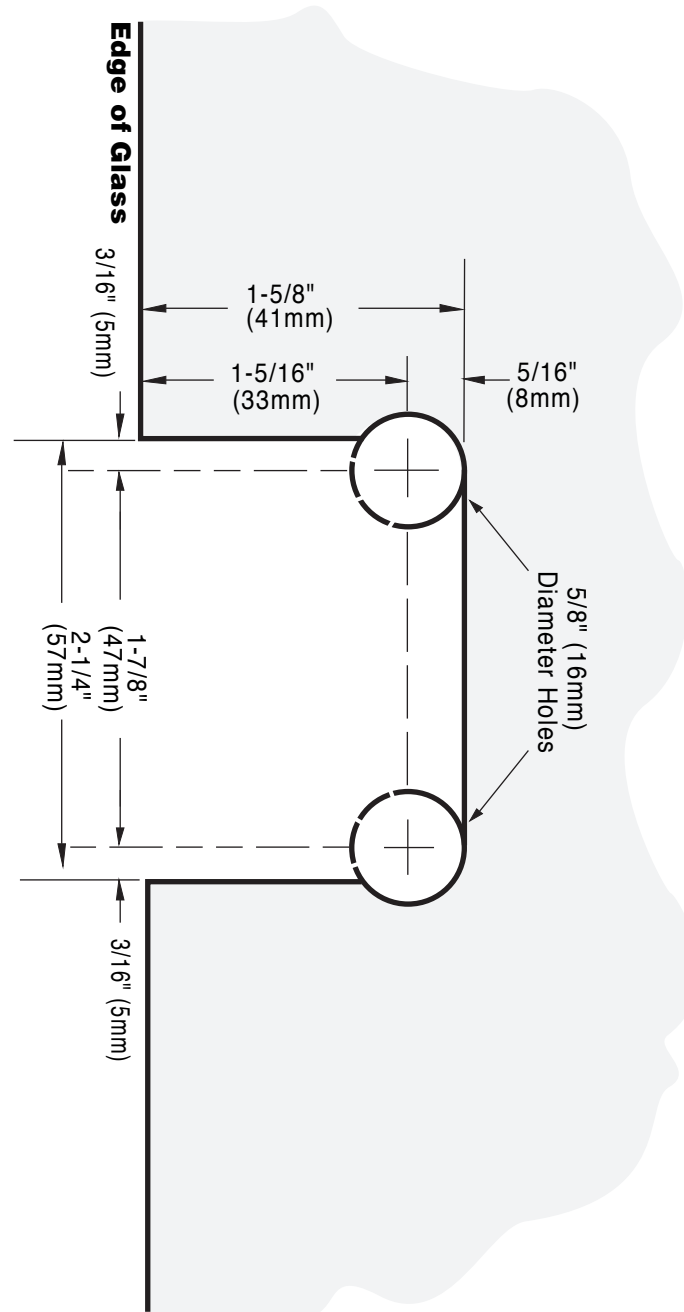
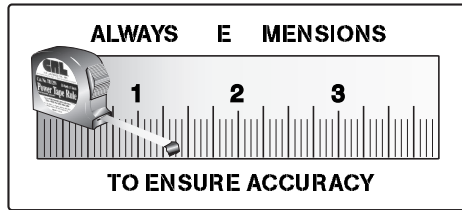
CAT No. M1L180

* Maximum Door Capacities	1/4" (6mm) Glass		5/16" (8mm) Glass	
	Weight	Width	Weight	Width
Using 2 Hinges	60 lbs.(27 kg)	28"(711mm)	60 lbs.(36 kg)	28"(711mm)
Using 3 Hinges	90 lbs.(41 kg)	32"(813 mm)	90 lbs.(55 kg)	32"(813 mm)

***NOTE:** Do not exceed either maximum weight or width when choosing proper quantity of hinges.



C.R. LAURENCE CO., INC.
PROFESSIONAL QUALITY



MILANO

Glass-to-Glass Hinge
CAT No. M1L180

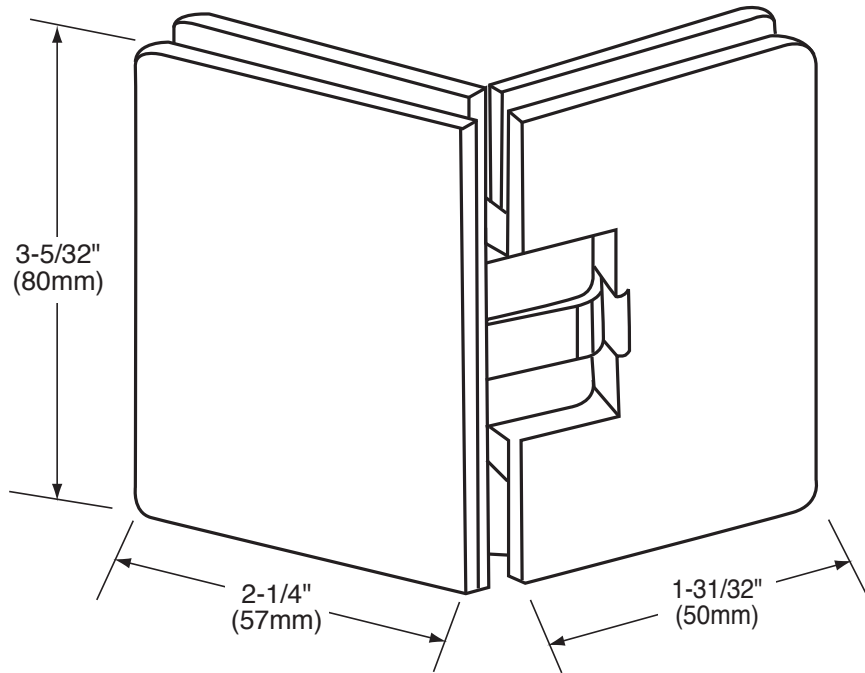
C.R. Laurence Co., Inc.
crlaurence.com

For technical assistance in the United States call toll free (800) 421-6144; from Canada call toll free (877) 421-6144; Outside the U.S. and Canada call (323) 588-1281. Ask for Tech Sales at Extension 7740. Toll free fax (800) 458-7496.



C.R. LAURENCE CO., INC.
PROFESSIONAL QUALITY

*** SEE TEMPLATE ON BACK ***
 Refer to Dimensions Shown
 to Ensure Accuracy



Important Information:

The Fixed Panel measurements must be taken from the inside edge of the miter.

Specifications:

Glass Sizes: 1/4" (6mm) to 5/16" (8mm) thick tempered safety glass
Construction: Solid brass
Closing Type: Self-centering when within 15° of closed position
Cutout Required
Includes: Gaskets, screws and template

Use of Gaskets:

For 1/4"(6mm) Glass: Use one thick gasket on each side
For 5/16"(8mm) Glass: Use one thin gasket on each side

Recommendations:

For public safety, we recommend the use of only tempered safety glass.
 Do not use power tools when installing these hinges.

Maintenance Guidelines:

- Never use an abrasive cleaner on the hardware. Many of the components are coated with a clear lacquer that will be irreparably damaged if subjected to harsh, abrasive chemicals. Advise your customer that drying the hardware with a clean, soft towel on a daily basis is the best way to maintain the hardware. If mineral deposits build-up, mix a couple of drops of a mild liquid soap (such as Ivory or a similar product) into a cup of warm water. Using a soft, non-abrasive cloth, clean the hardware. Rinse thoroughly with clean warm water and dry.

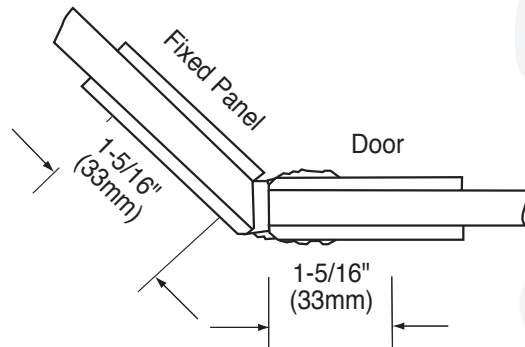
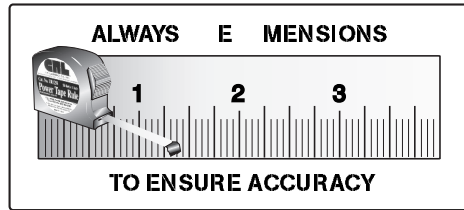
MILANO

135° Glass-to-Glass Hinge

CAT No. M1L045

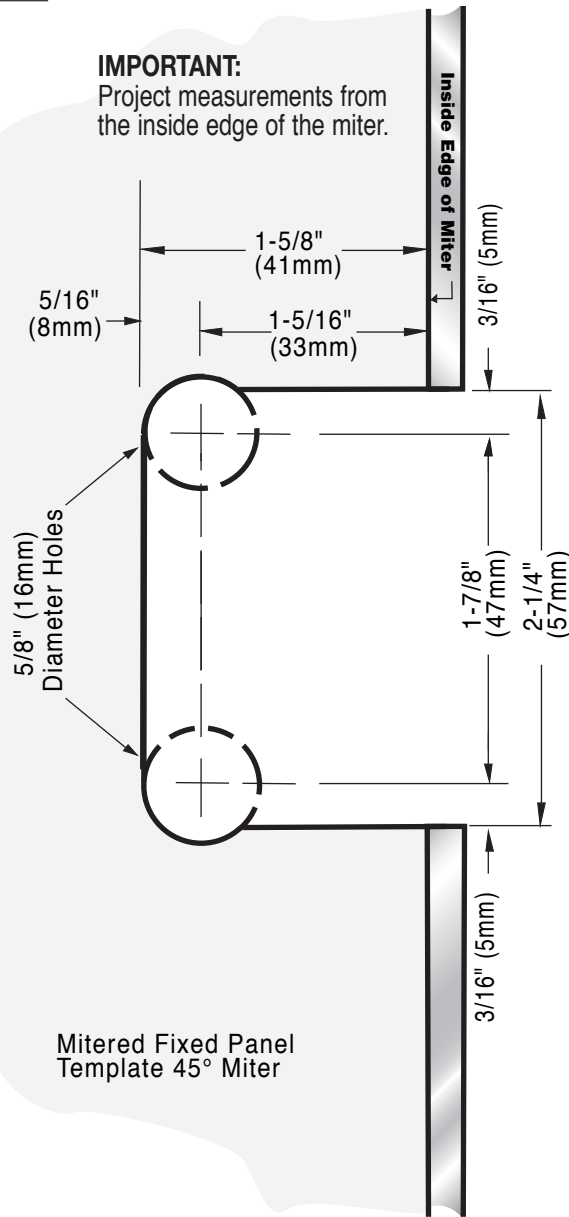
*Maximum Door Capacities	1/4" (6mm) Glass		5/16" (8mm) Glass	
	Weight	Width	Weight	Width
Using 2 Hinges	60 lbs.(27 kg)	28"(711mm)	60 lbs.(27 kg)	28"(711mm)
Using 3 Hinges	90 lbs.(41 kg)	32"(813 mm)	90 lbs.(41 kg)	32"(813 mm)

***NOTE:** Do not exceed either maximum weight or width when choosing proper quantity of hinges.

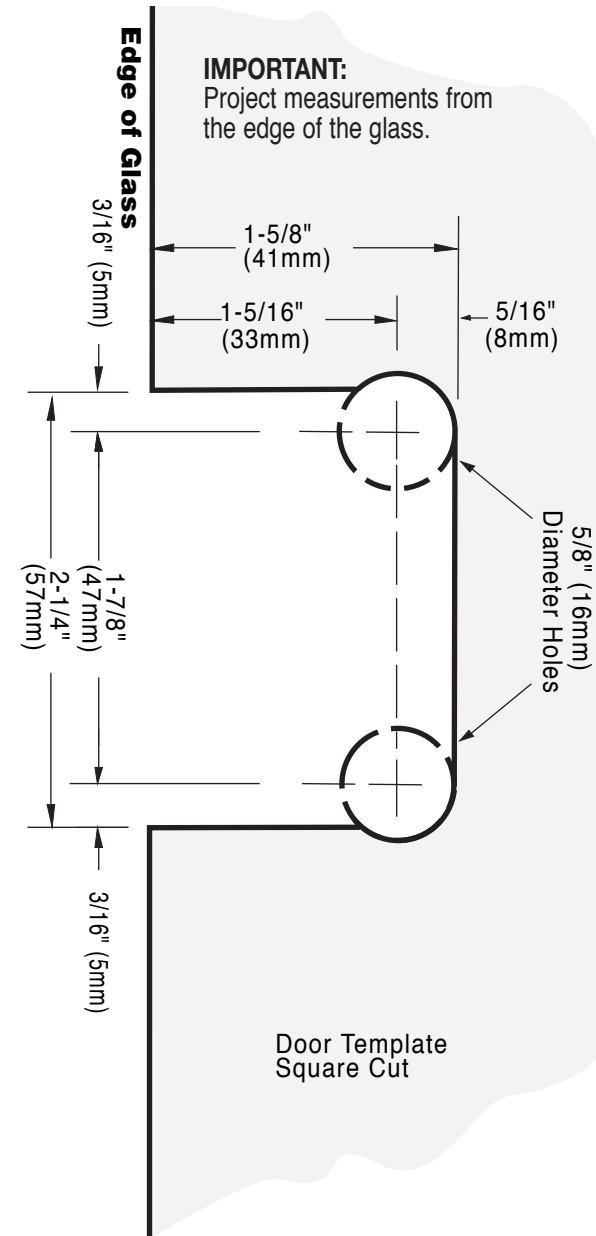


MILANO
135° Glass-to-Glass Hinge
CAT No. M1L045

IMPORTANT:
Project measurements from the inside edge of the miter.



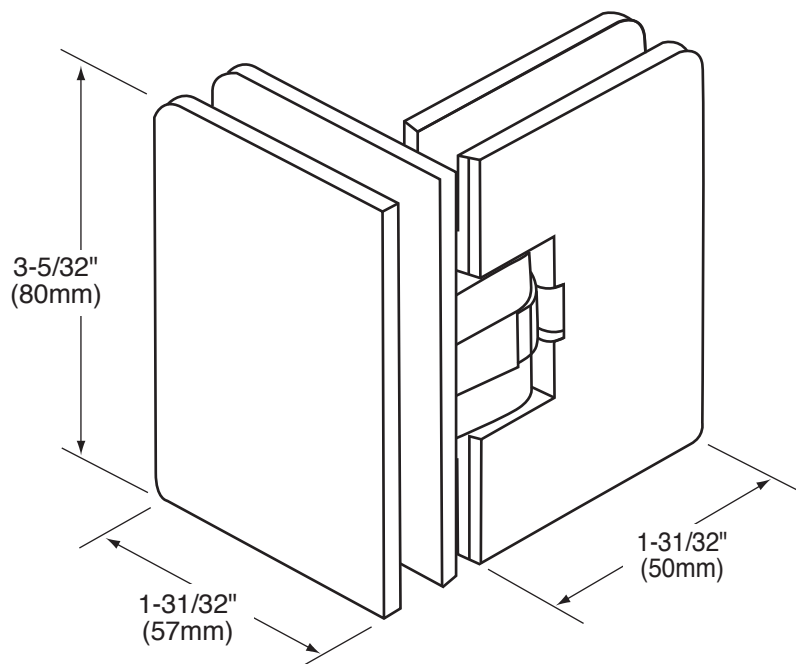
IMPORTANT:
Project measurements from the edge of the glass.





C.R. LAURENCE CO., INC.
PROFESSIONAL QUALITY

*** SEE TEMPLATE ON BACK ***
 Refer to Dimensions Shown
 to Ensure Accuracy



MILANO

90° Glass-to-Glass Hinge

CAT No. M1L090

*Maximum Door Capacities	1/4" (6mm) Glass		5/16" (8mm) Glass	
	Weight	Width	Weight	Width
Using 2 Hinges	60 lbs.(27 kg)	28"(711mm)	60 lbs.(27 kg)	28"(711mm)
Using 3 Hinges	90 lbs.(41 kg)	32"(813 mm)	90 lbs.(41 kg)	32"(813 mm)

***NOTE:** Do not exceed either maximum weight or width when choosing proper quantity of hinges.

Important Information:

The door requires a notch and the fixed panel requires holes only.

Specifications:

Glass Sizes: 1/4" (6mm) to 5/16" (8mm) thick tempered safety glass

Construction: Solid brass

Closing Type:

Cutout Required

Includes: Gaskets, screws and template

Use of Gaskets:

For 1/4"(6mm) Glass: Use one thick gasket on each side

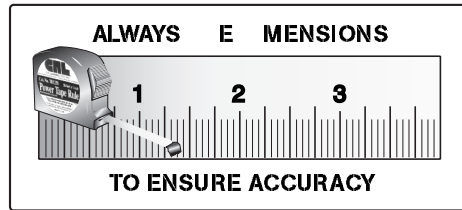
For 5/16"(8mm) Glass: Use one thin gasket on each side

Recommendations:

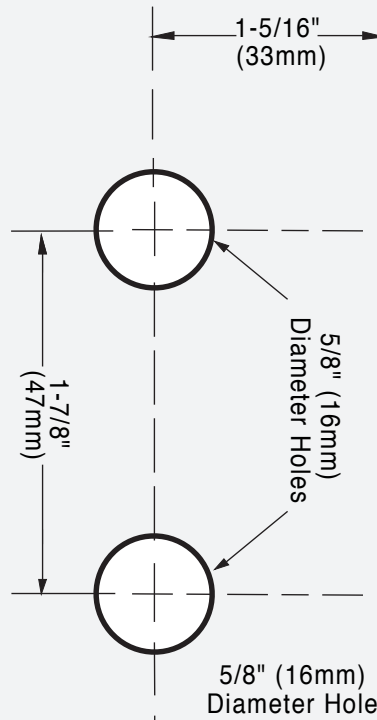
For public safety, we recommend the use of only tempered safety glass. Do not use power tools when installing these hinges.

Maintenance Guidelines:

- Never use an abrasive cleaner on the hardware. Many of the components are coated with a clear lacquer that will be irreparably damaged if subjected to harsh, abrasive chemicals. Advise your customer that drying the hardware with a clean, soft towel on a daily basis is the best way to maintain the hardware. If mineral deposits build-up, mix a couple of drops of a mild liquid soap (such as Ivory or a similar product) into a cup of warm water. Using a soft, non-abrasive cloth, clean the hardware. Rinse thoroughly with clean warm water and dry.

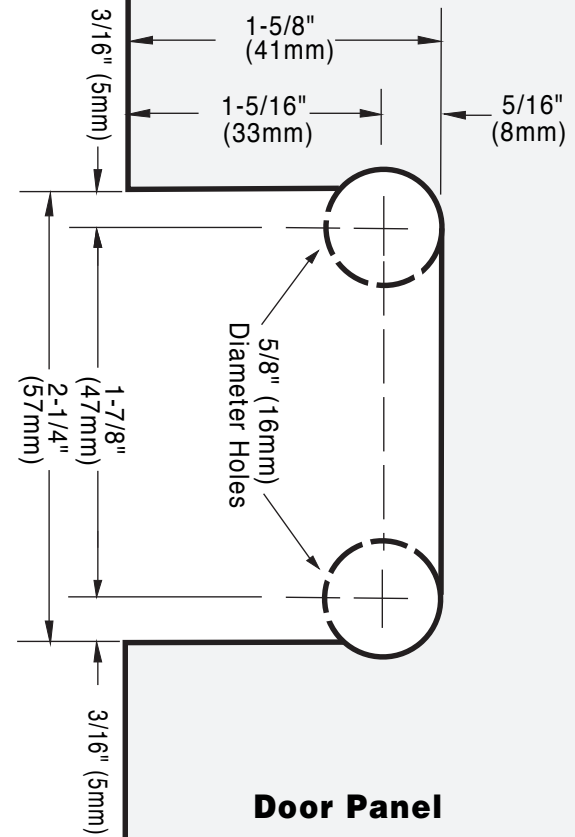


IMPORTANT:
 Project measurements from the edge of the glass.



Fixed Panel

IMPORTANT:
 Project measurements from the edge of the glass.

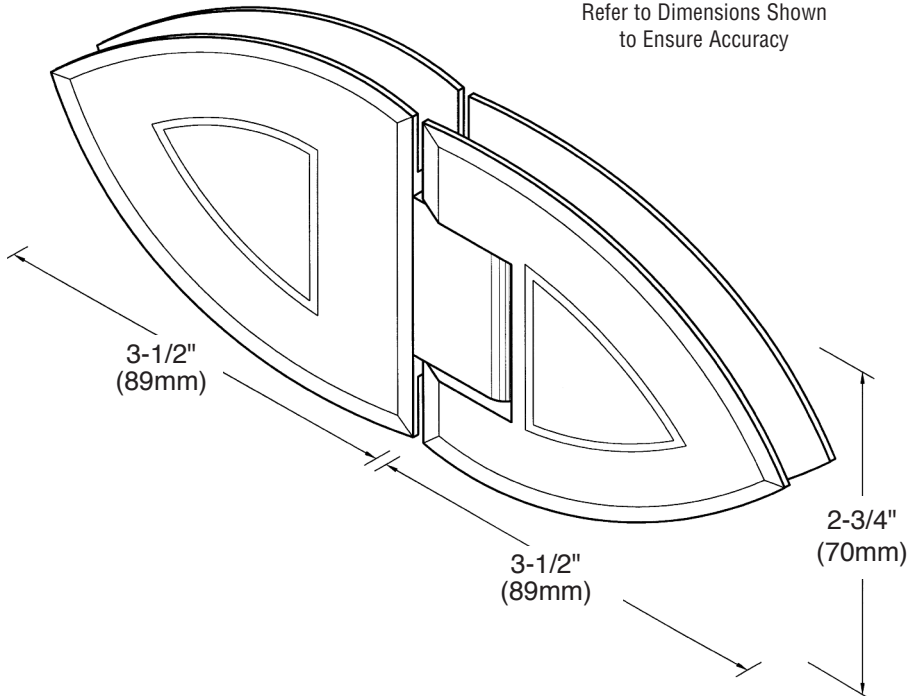


Door Panel

MILANO
 90° Glass-to-Glass Hinge
 CAT No. M1L090



*** SEE TEMPLATE ON BACK ***
Refer to Dimensions Shown
to Ensure Accuracy



Important Information:

The Junior Cathedral Series of Hinges are equipped with a dual degree pivot pin. The pivot pin is set by the manufacturer for normal door closing position. You have the option of altering the closing position of the door 5 degrees by utilizing the opposite side of the pivot pin, which has been pre-machined (see Section 3 for this procedure).

Specifications:

Glass Sizes: 1/4" (6mm) to 5/16" (8mm) thick tempered safety glass

Construction: Solid brass

Closing Type: Self-centering when within 15° of closed position

Cutout and Hole Required

Includes: Gaskets, screws and template

Use of Gaskets:

For 1/4"(6mm) Glass: Use one thick gasket on each side

For 5/16"(8mm) Glass: Use one thin gasket on each side

Recommendations:

For public safety, we recommend the use of only tempered safety glass.
Do not use power tools when installing these hinges.

Maintenance Guidelines:

- Our hinges are greased at the factory for quiet and trouble-free operation. If there is any squeaking that occurs after installation, put a drop of "3 in 1 Oil" (also known as "household oil") on the white nylon washer that the hinge body pivots on. This washer is the component that acts as a buffer, so the body of the hinge doesn't pivot directly on the brass center block. This solution doesn't require the disassembly of the hinge.
Note: Do not use spray lubricant on these hinges. If the hinge has been disassembled, upon re-assembly, use white lithium grease to lubricate the interior mechanism.
- Never use an abrasive cleaner on the hardware. Many of the components are coated with a clear lacquer that will be irreparably damaged if subjected to harsh, abrasive chemicals. Advise your customer that drying the hardware with a clean, soft towel on a daily basis is the best way to maintain the hardware. If mineral deposits build-up, mix a couple of drops of a mild liquid soap (such as Ivory or a similar product) into a cup of warm water. Using a soft, non-abrasive cloth, clean the hardware. Rinse thoroughly with clean, warm water and dry.

JUNIOR CATHEDRAL

180° Glass-to-Glass Hinge

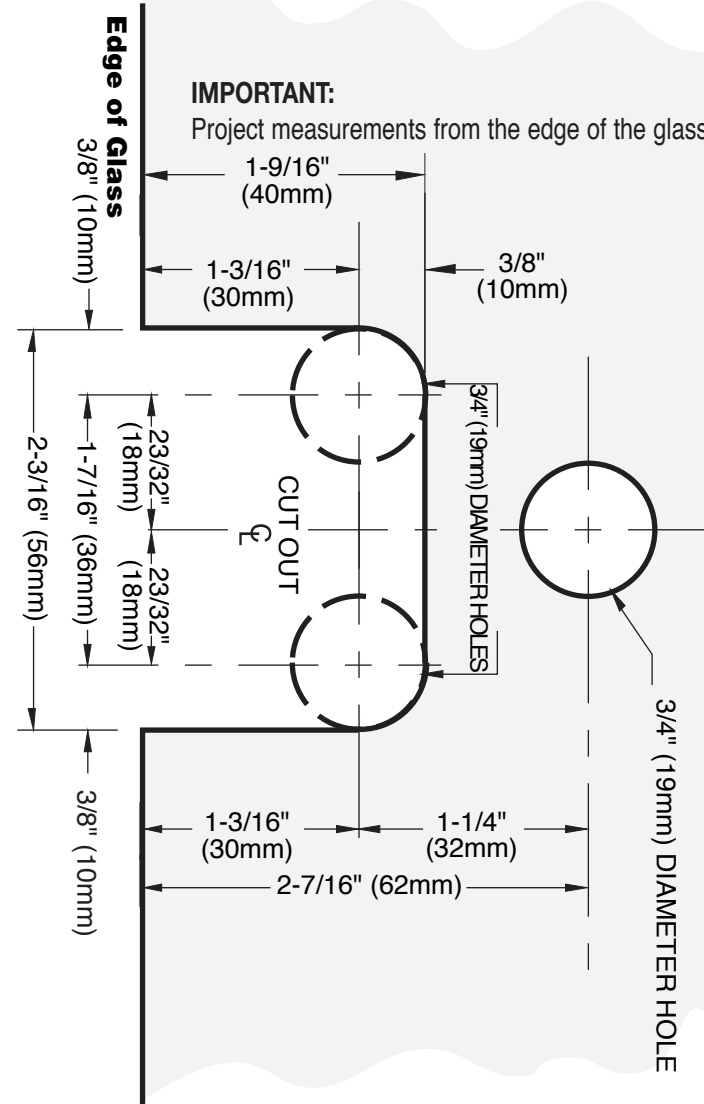
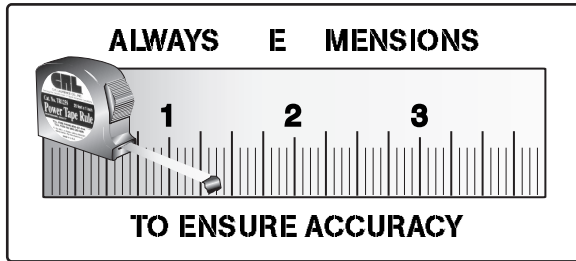
CAT No. JRCAT180

*Maximum Door Capacities	1/4" (6mm) Glass		5/16" (8mm) Glass	
	Weight	Width	Weight	Width
Using 2 Hinges	62 lbs.(28 kg)	28"(711mm)	62 lbs.(28 kg)	28"(711mm)
Using 3 Hinges	92 lbs.(42 kg)	32"(813mm)	92 lbs.(42 kg)	32"(813mm)

***NOTE:** Do not exceed either maximum weight or width when choosing proper quantity of hinges.



C.R. LAURENCE CO., INC.
PROFESSIONAL QUALITY



JUNIOR CATHEDRAL

180° Glass-to-Glass Hinge

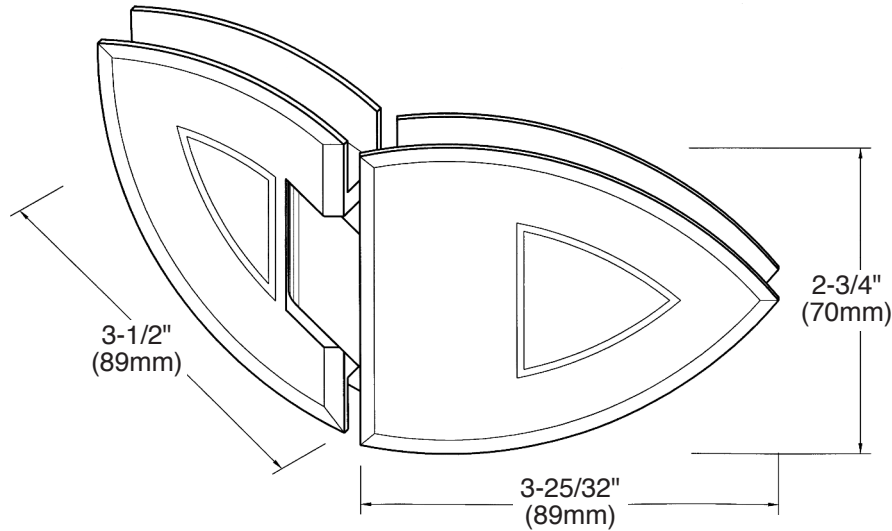
CAT No. JRCAT180

C.R. Laurence Co., Inc.
 crlaurence.com

For technical assistance in the United States call toll free (800) 421-6144; from Canada call toll free (877) 421-6144; Outside the U.S. and Canada call (323) 588-1281. Ask for Tech Sales at Extension 7740. Toll free fax (800) 458-7496.



*** SEE TEMPLATE ON BACK ***
Refer to Dimensions Shown
to Ensure Accuracy



(This hinge requires two different templates, one for the door and one for the mitered fixed panel)

JUNIOR CATHEDRAL

135° Glass-to-Glass Hinge

Cat No. JRCAT045

*Maximum Door Capacities	1/4" (6mm) Glass		5/16" (8mm) Glass	
	Weight	Width	Weight	Width
Using 2 Hinges	62 lbs.(28 kg)	28"(711mm)	62 lbs.(28 kg)	28"(711mm)
Using 3 Hinges	92 lbs.(42 kg)	32"(813mm)	92 lbs.(42 kg)	32"(813mm)

*NOTE: Do not exceed either maximum weight or width when choosing proper quantity of hinges.

Important Information:

- 1)The Junior Cathedral Series of Hinges are equipped with a dual degree pivot pin. The pivot pin is set by the manufacturer for normal door closing position. You have the option of altering the closing position of the door 5 degrees by utilizing the opposite side of the pivot pin, which has been pre-machined (see Section 3 for this procedure).
- 2)The fixed panel measurements must be taken from the inside of the miter.

Specifications:

Glass Sizes: 1/4" (6mm) to 5/16" (8mm) thick tempered safety glass
Construction: Solid brass
Closing Type: Self-centering when within 15° of closed position
Cutout and Hole Required
Includes: Gaskets, screws and template

Use of Gaskets:

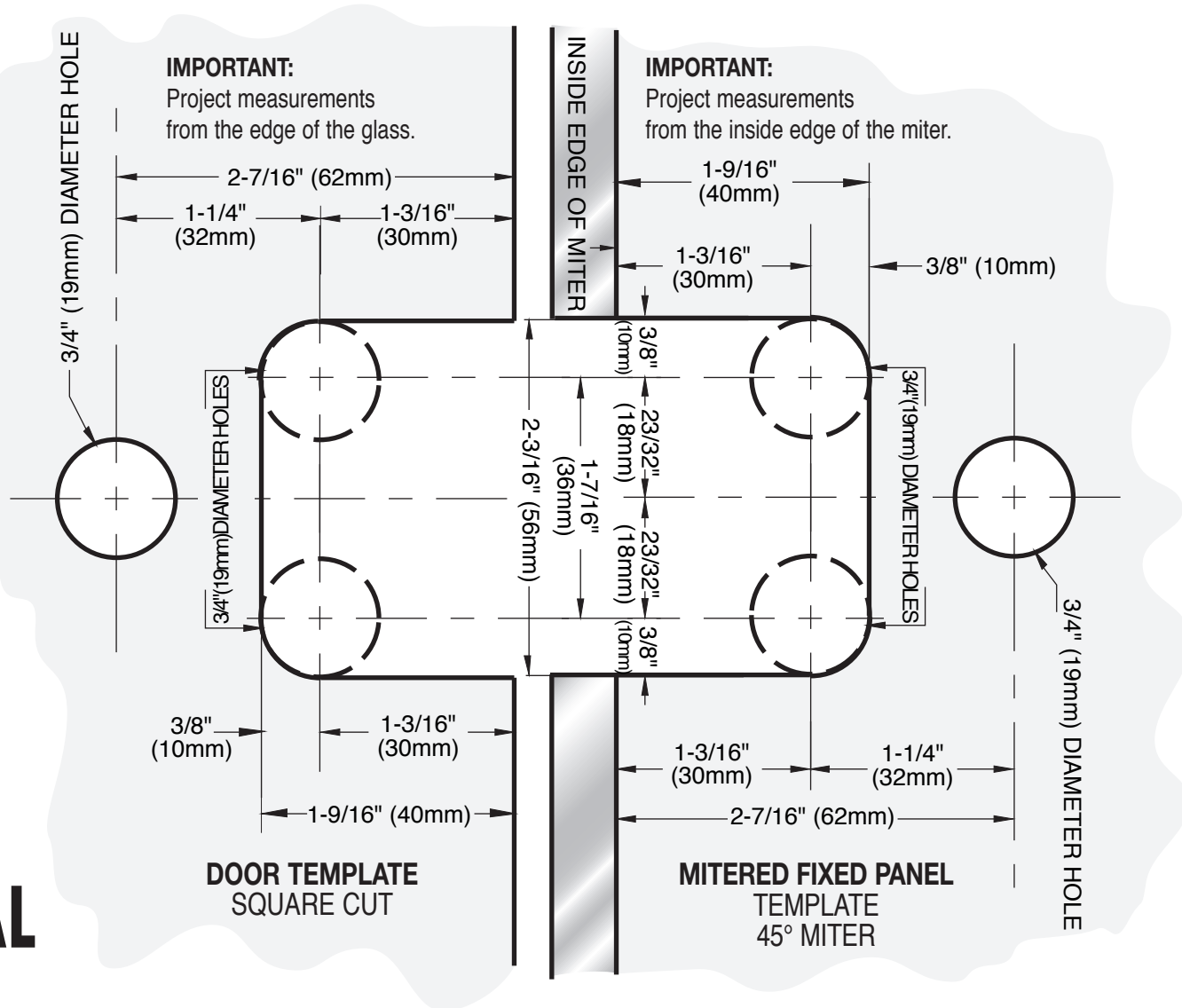
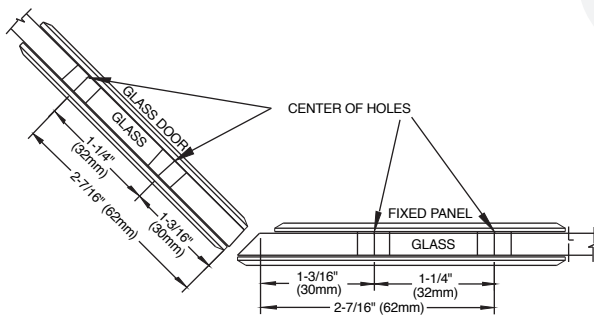
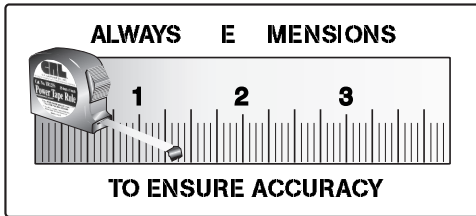
For 1/4"(6mm) Glass: Use one thick gasket on each side
For 5/16"(8mm) Glass: Use one thin gasket on each side

Recommendations:

For public safety, we recommend the use of only tempered safety glass. Do not use power tools when installing these hinges.

Maintenance Guidelines:

- Our hinges are greased at the factory for quiet and trouble-free operation. If there is any squeaking that occurs after installation, put a drop of "3 in 1 Oil" (also known as "household oil") on the white nylon washer that the hinge body pivots on. This washer is the component that acts as a buffer, so the body of the hinge doesn't pivot directly on the brass center block. This solution doesn't require the disassembly of the hinge.
Note: Do not use spray lubricant on these hinges. If the hinge has been disassembled, upon re-assembly, use white lithium grease to lubricate the interior mechanism.
- Never use an abrasive cleaner on the hardware. Many of the components are coated with a clear lacquer that will be irreparably damaged if subjected to harsh, abrasive chemicals. Advise your customer that drying the hardware with a clean, soft towel on a daily basis is the best way to maintain the hardware. If mineral deposits build-up, mix a couple of drops of a mild liquid soap (such as Ivory or a similar product) into a cup of warm water. Using a soft, non-abrasive cloth, clean the hardware. Rinse thoroughly with clean, warm water and dry.

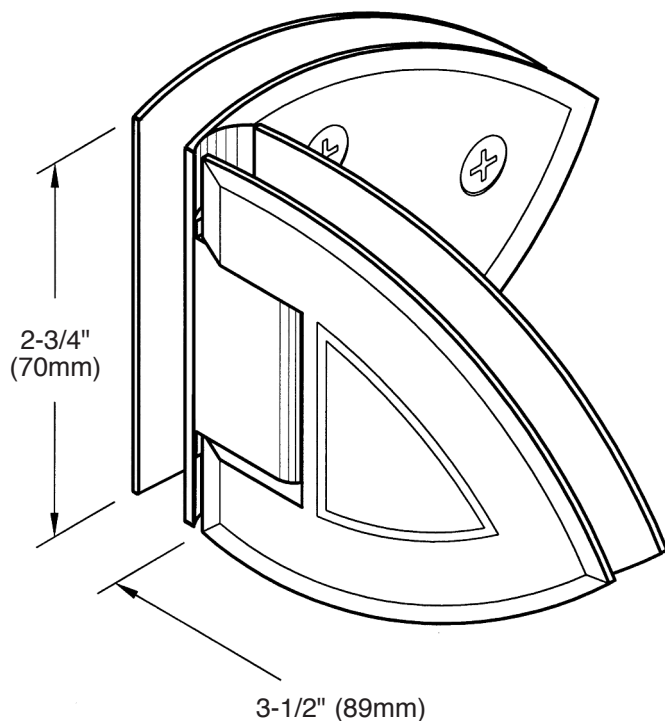


JUNIOR CATHEDRAL

135° Glass-to-Glass Hinge
CAT No. JRCAT045



C.R. LAURENCE CO., INC.
PROFESSIONAL QUALITY



*** SEE TEMPLATE ON BACK ***
Refer to Dimensions Shown
to Ensure Accuracy

JUNIOR CATHEDRAL

90° Glass-to-Glass Hinge

Cat No. JRCAT090

(This hinge offers two different
templates, one for the door
and one for the fixed panel).

*Maximum Door Capacities	1/4" (6mm) Glass		5/16" (8mm) Glass	
	Weight	Width	Weight	Width
Using 2 Hinges	62 lbs.(28 kg)	28"(711mm)	62 lbs.(28 kg)	28"(711mm)
Using 3 Hinges	92 lbs.(42 kg)	32"(813mm)	92 lbs.(42 kg)	32"(813mm)

***NOTE:** Do not exceed either maximum weight or width when choosing proper quantity of hinges.

Important Information:

The Junior Cathedral Series of Hinges are equipped with a dual degree pivot pin. The pivot pin is set by the manufacturer for normal door closing position. You have the option of altering the closing position of the door 5 degrees by utilizing the opposite side of the pivot pin, which has been pre-machined (see Section 3 for this procedure).

Specifications:

Glass Sizes: 1/4" (6mm) to 5/16" (8mm) thick tempered safety glass

Construction: Solid brass

Closing Type: Self-centering when within 15° of closed position

Cutout and Hole Required for Door.

Fixed Panel Requires Holes Only.

Includes: Gaskets, screws and template

Use of Gaskets:

For 1/4"(6mm) glass: Use one thick gasket on each side

For 5/16"(8mm) glass: Use one thin gasket on each side

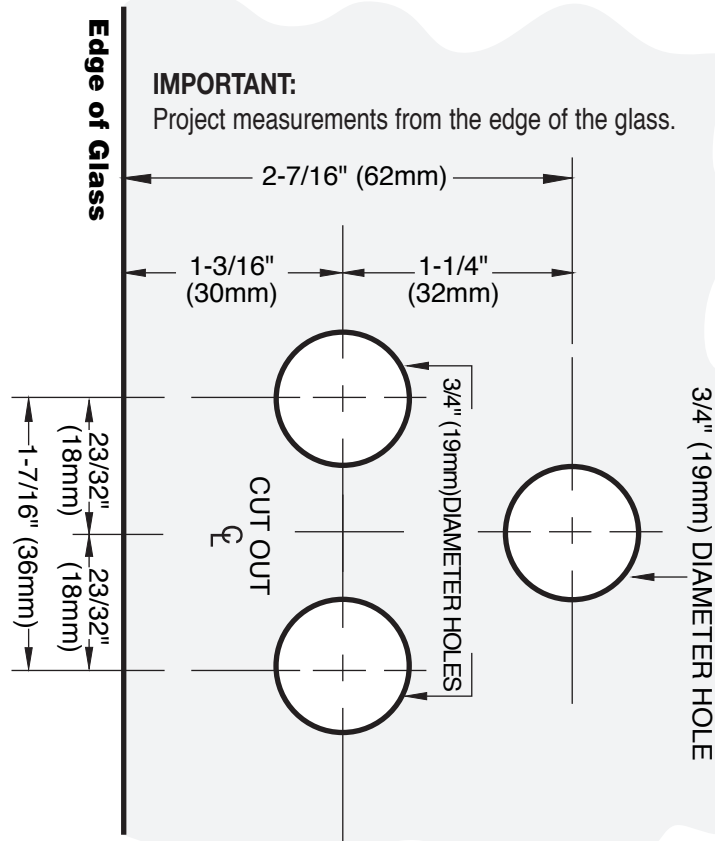
Recommendations:

For public safety, we recommend the use of only tempered safety glass.

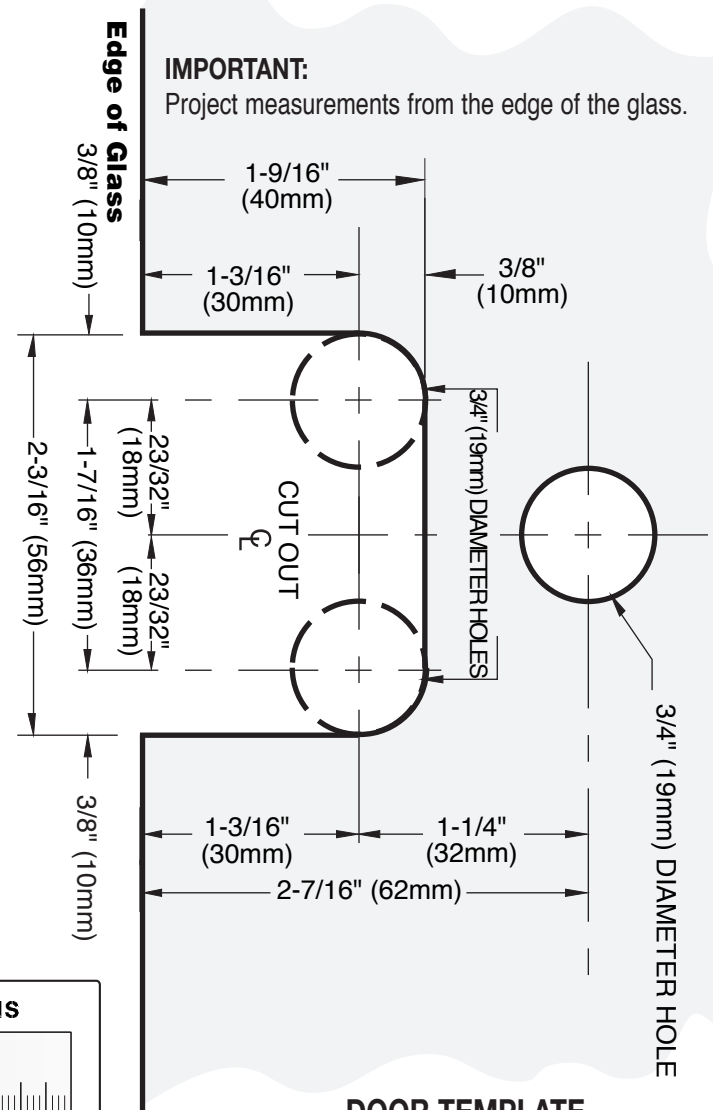
Do not use power tools when installing these hinges.

Maintenance Guidelines:

- Our hinges are greased at the factory for quiet and trouble-free operation. If there is any squeaking that occurs after installation, put a drop of "3 in 1 Oil" (also known as "household oil") on the white nylon washer that the hinge body pivots on. This washer is the component that acts as a buffer, so the body of the hinge doesn't pivot directly on the brass center block. This solution doesn't require the disassembly of the hinge.
Note: Do not use spray lubricant on these hinges. If the hinge has been disassembled, upon re-assembly, use white lithium grease to lubricate the interior mechanism.
- Never use an abrasive cleaner on the hardware. Many of the components are coated with a clear lacquer that will be irreparably damaged if subjected to harsh, abrasive chemicals. Advise your customer that drying the hardware with a clean, soft towel on a daily basis is the best way to maintain the hardware. If mineral deposits build-up, mix a couple of drops of a mild liquid soap (such as Ivory or a similar product) into a cup of warm water. Using a soft, non-abrasive cloth, clean the hardware. Rinse thoroughly with clean, warm water and dry.



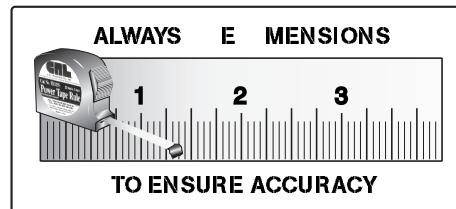
FIXED PANEL TEMPLATE



DOOR TEMPLATE

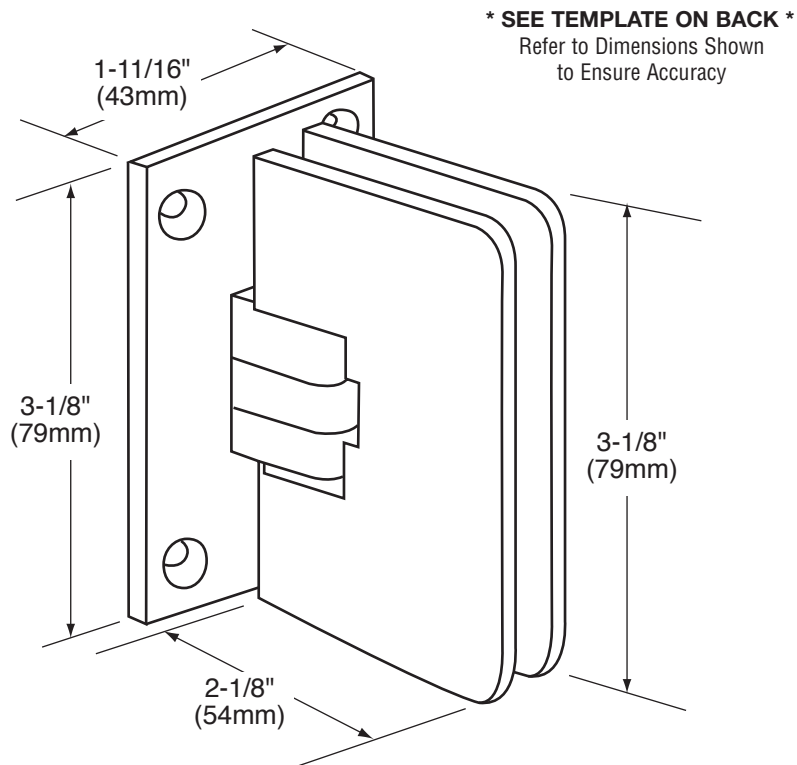
JUNIOR CATHEDRAL

90° Glass-to-Glass Hinge
Cat No. JRCAT090





C.R. LAURENCE CO., INC.
PROFESSIONAL QUALITY



Specifications:

Glass Sizes: 1/4" (6mm) to 5/16" (8mm) thick tempered safety glass

Construction: Solid brass

Closing Type: Precise closing to 0°

Cutout Required

Includes: Gaskets, screws and template

Use of Gaskets:

For 1/4"(6mm) Glass: Use one thick gasket on each side

For 5/16"(8mm) Glass: Use one thin gasket on each side

Recommendations:

For public safety, we recommend the use of only tempered safety glass. Do not use power tools when installing these hinges.

Maintenance Guidelines:

- Never use an abrasive cleaner on the hardware. Many of the components are coated with a clear lacquer that will be irreparably damaged if subjected to harsh, abrasive chemicals. Advise your customer that drying the hardware with a clean, soft towel on a daily basis is the best way to maintain the hardware. If mineral deposits build-up, mix a couple of drops of a mild liquid soap (such as Ivory or a similar product) into a cup of warm water. Using a soft, non-abrasive cloth, clean the hardware. Rinse thoroughly with clean warm water and dry.

MILANO

Wall Mount Hinge - Full Back Plate

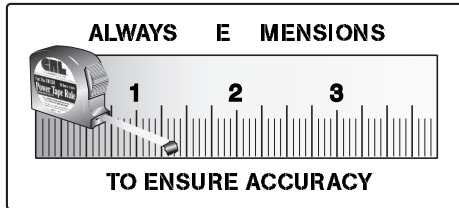
CAT No. M1L037

*Maximum Door Capacities	1/4" (6mm) Glass		5/16" (8mm) Glass	
	Weight	Width	Weight	Width
Using 2 Hinges	60 lbs.(27 kg)	28"(711mm)	60 lbs.(27 kg)	28"(711mm)
Using 3 Hinges	90 lbs.(41 kg)	32"(813 mm)	90 lbs.(41 kg)	32"(813 mm)

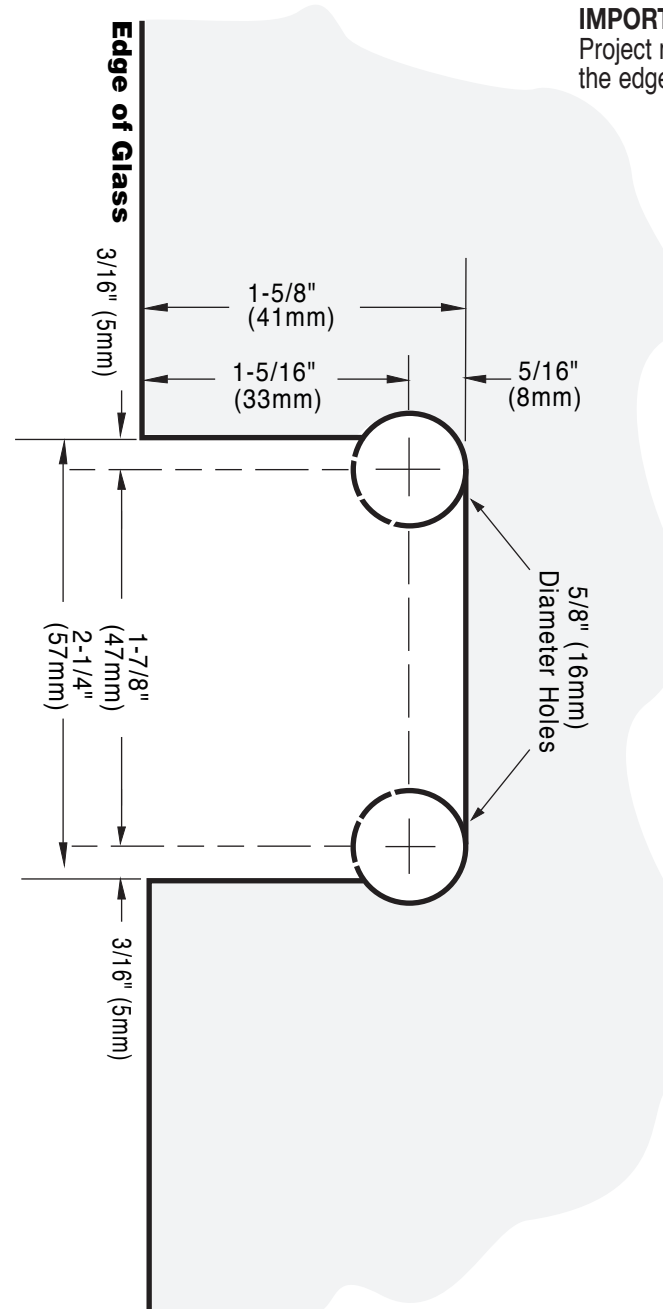
*NOTE: Do not exceed either maximum weight or width when choosing proper quantity of hinges.



C.R. LAURENCE CO., INC.
PROFESSIONAL QUALITY



IMPORTANT:
 Project measurements from
 the edge of the glass.



MILANO

Wall Mount Hinge - Full Back Plate

CAT No. M1L037

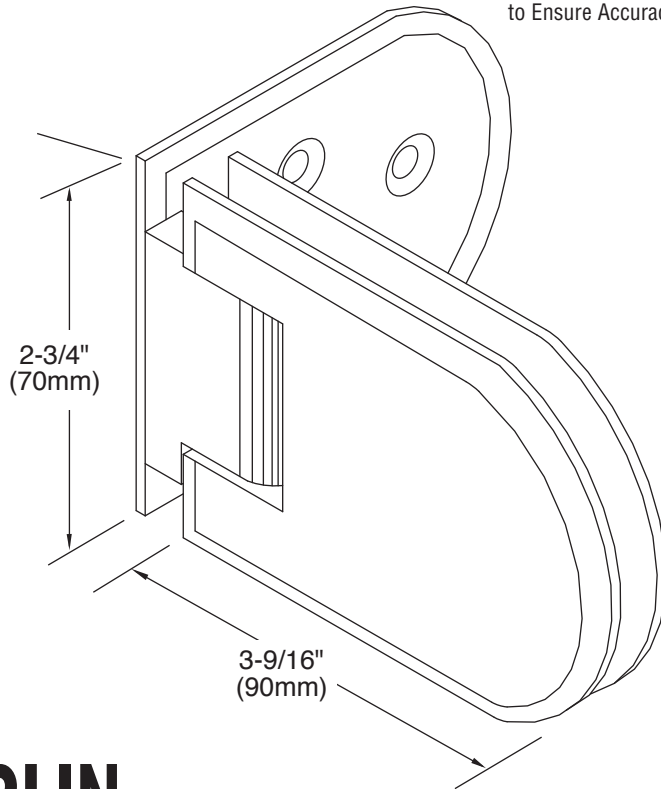
C.R. Laurence Co., Inc.
 crlaurence.com

For technical assistance in the United States call toll free (800) 421-6144; from Canada call toll free (877) 421-6144; Outside the U.S. and Canada call (323) 588-1281. Ask for Tech Sales at Extension 7740. Toll free fax (800) 458-7496.



C.R. LAURENCE CO., INC.
PROFESSIONAL QUALITY

*** SEE TEMPLATE ON BACK ***
 Refer to Dimensions Shown
 to Ensure Accuracy



BERLIN

Wall Mount Offset Back Plate

Cat. No. BER044

* Maximum Door Capacities	1/4" (6mm) Glass		5/16" (8mm) Glass	
	Weight	Width	Weight	Width
Using 2 Hinges	60 lbs.(27 kg)	28"(711mm)	60 lbs.(27 kg)	28"(711mm)
Using 3 Hinges	90 lbs.(41 kg)	32"(813mm)	90 lbs.(41 kg)	32"(813mm)

***NOTE:** Do not exceed either maximum weight or width when choosing proper quantity of hinges.

Specifications:

Glass Sizes: 1/4" (6mm) to 5/16" (8mm) thick tempered safety glass

Construction: Solid brass

Closing Type: Self-centering when within 15° of closed position

Cutout Required

Includes: Gaskets, screws and template

Use of Gaskets:

For 1/4"(6mm) Glass: Use one thick gasket on each side

For 5/16"(8mm) Glass: Use one thin gasket on each side

Recommendations:

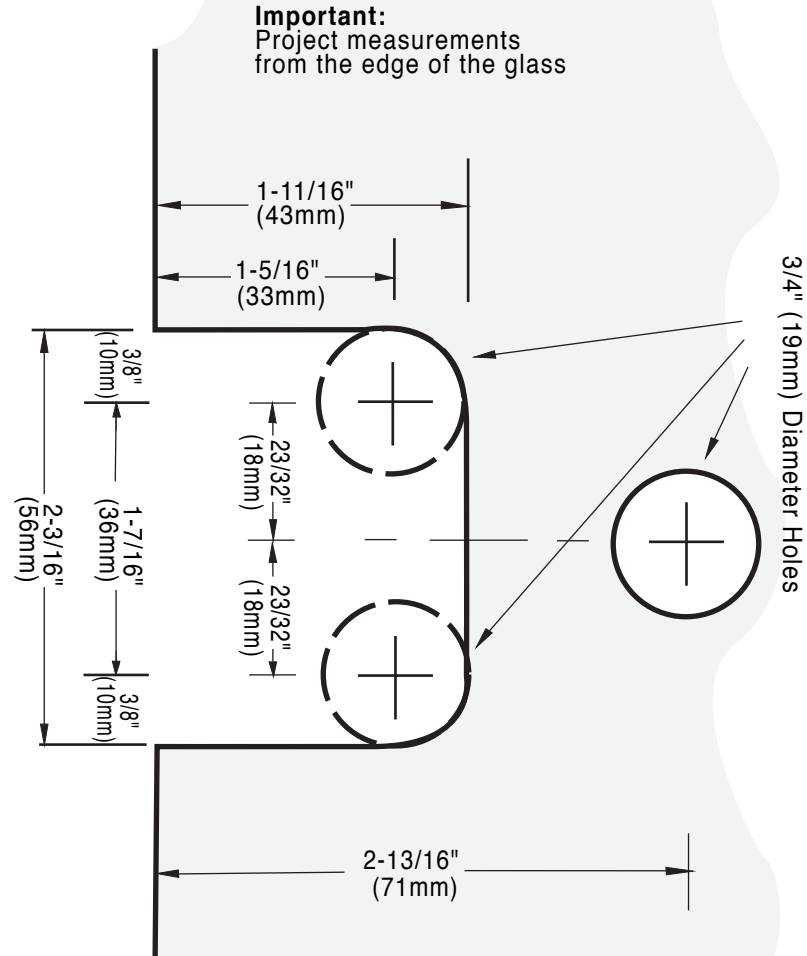
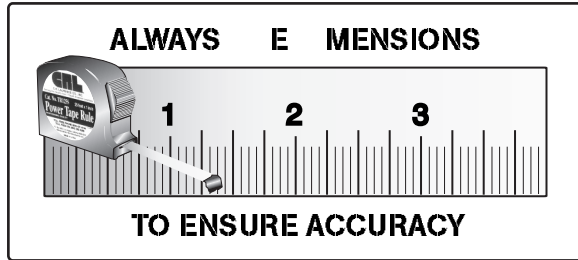
For public safety, we recommend the use of only tempered safety glass. Do not use power tools when installing these hinges.

Maintenance Guidelines:

- Never use an abrasive cleaner on the hardware. Many of the components are coated with a clear lacquer that will be irreparably damaged if subjected to harsh, abrasive chemicals. Advise your customer that drying the hardware with a clean, soft towel on a daily basis is the best way to maintain the hardware. If mineral deposits build-up, mix a couple of drops of a mild liquid soap (such as Ivory or a similar product) into a cup of warm water. Using a soft, non-abrasive cloth, clean the hardware. Rinse thoroughly with clean, warm water and dry.



C.R. LAURENCE CO., INC.
PROFESSIONAL QUALITY



BERLIN

Wall Mount Offset Back Plate

CAT. No. BER044

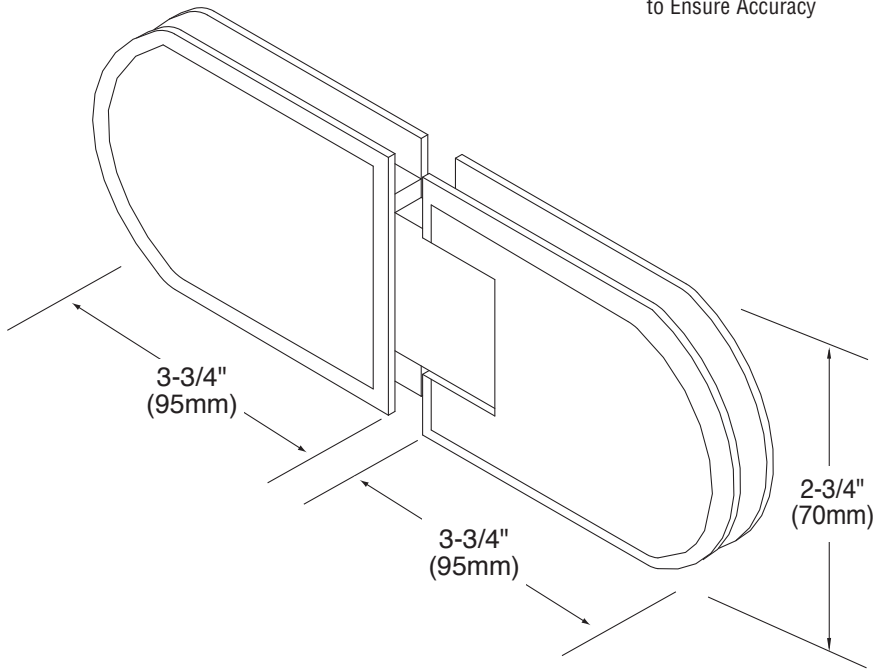
C.R. Laurence Co., Inc.
 crlaurence.com

For technical assistance in the United States call toll free (800) 421-6144; from Canada call toll free (877) 421-6144; Outside the U.S. and Canada call (323) 588-1281. Ask for Tech Sales at Extension 7740. Toll free fax (800) 458-7496.



C.R. LAURENCE CO., INC.
PROFESSIONAL QUALITY

*** SEE TEMPLATE ON BACK ***
 Refer to Dimensions Shown
 to Ensure Accuracy



BERLIN

180° Glass-to-Glass Hinge

Cat. No. BER180

*Maximum Door Capacities	1/4" (6mm) Glass		5/16" (8mm) Glass	
	Weight	Width	Weight	Width
Using 2 Hinges	60 lbs.(27 kg)	28"(711mm)	60 lbs.(27 kg)	28"(711mm)
Using 3 Hinges	90 lbs.(41 kg)	32"(813mm)	90 lbs.(41 kg)	32"(81mm)

***NOTE:** Do not exceed either maximum weight or width when choosing proper quantity of hinges.

Important Information:

The door and fixed panel use the same cutout.

Specifications:

Glass Sizes: 1/4" (6mm) to 5/16" (8mm) thick tempered safety glass

Construction: Solid brass

Closing Type: Self-centering when within 15° of closed position

Cutout Required

Includes: Gaskets, screws and template

Use of Gaskets:

For 1/4"(6mm) Glass: Use one thick gasket on each side

For 5/16"(8mm) Glass: Use one thin gasket on each side

Recommendations:

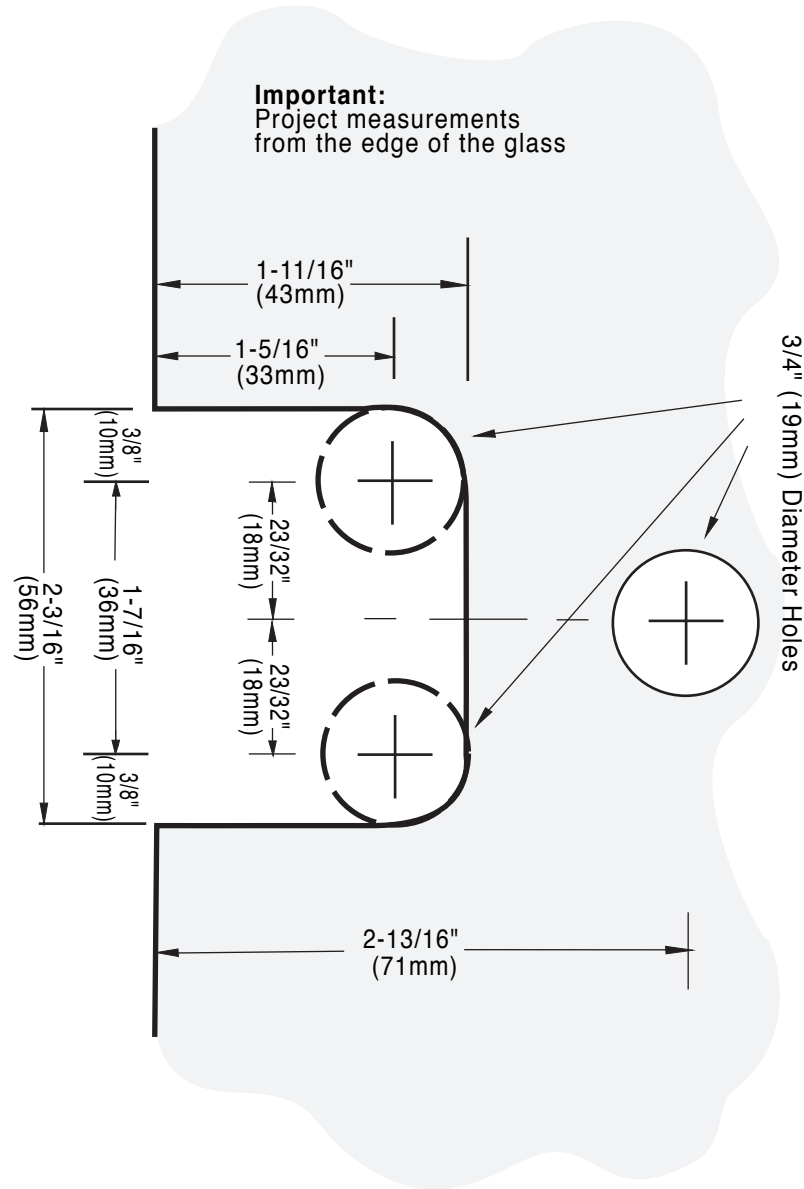
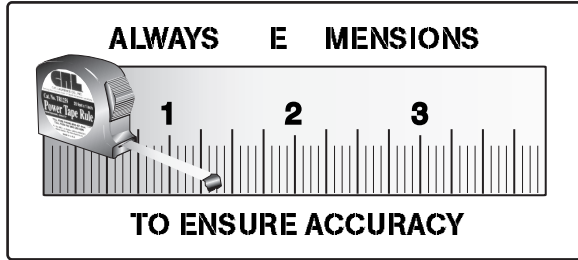
For public safety, we recommend the use of only tempered safety glass.
 Do not use power tools when installing these hinges.

Maintenance Guidelines:

- Never use an abrasive cleaner on the hardware. Many of the components are coated with a clear lacquer that will be irreparably damaged if subjected to harsh, abrasive chemicals. Advise your customer that drying the hardware with a clean, soft towel on a daily basis is the best way to maintain the hardware. If mineral deposits build-up, mix a couple of drops of a mild liquid soap (such as Ivory or a similar product) into a cup of warm water. Using a soft, non-abrasive cloth, clean the hardware. Rinse thoroughly with clean, warm water and dry.



C.R. LAURENCE CO., INC.
PROFESSIONAL QUALITY



BERLIN

180° Glass-to-Glass Hinge

CAT. No. BER180

C.R. Laurence Co., Inc.
 crlaurence.com

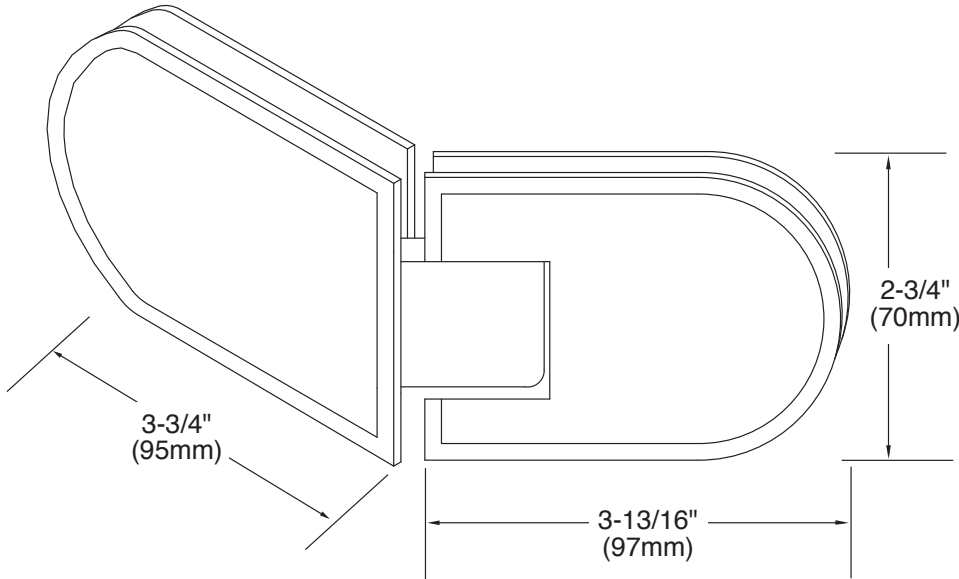
For technical assistance in the United States call toll free (800) 421-6144; from Canada call toll free (877) 421-6144; Outside the U.S. and Canada call (323) 588-1281. Ask for Tech Sales at Extension 7740. Toll free fax (800) 458-7496.

© Copyright 2005, C.R. Laurence Co., Inc_SDT21_US



C.R. LAURENCE CO., INC.
PROFESSIONAL QUALITY

*** SEE TEMPLATE ON BACK ***
 Refer to Dimensions Shown
 to Ensure Accuracy



Important Information:

The door and fixed panel use the same cutout.

Specifications:

Glass Sizes: 1/4" (6mm) to 5/16" (8mm) thick tempered safety glass

Construction: Solid brass

Closing Type: Self-centering when within 15° of closed position

Cutout Required

Includes: Gaskets, screws and template

Use of Gaskets:

For 1/4"(6mm) Glass: Use one thick gasket on each side

For 5/16"(8mm) Glass: Use one thin gasket on each side

Recommendations:

For public safety, we recommend the use of only tempered safety glass.
 Do not use power tools when installing these hinges.

Maintenance Guidelines:

- Never use an abrasive cleaner on the hardware. Many of the components are coated with a clear lacquer that will be irreparably damaged if subjected to harsh, abrasive chemicals. Advise your customer that drying the hardware with a clean, soft towel on a daily basis is the best way to maintain the hardware. If mineral deposits build-up, mix a couple of drops of a mild liquid soap (such as Ivory or a similar product) into a cup of warm water. Using a soft, non-abrasive cloth, clean the hardware. Rinse thoroughly with clean, warm water and dry.

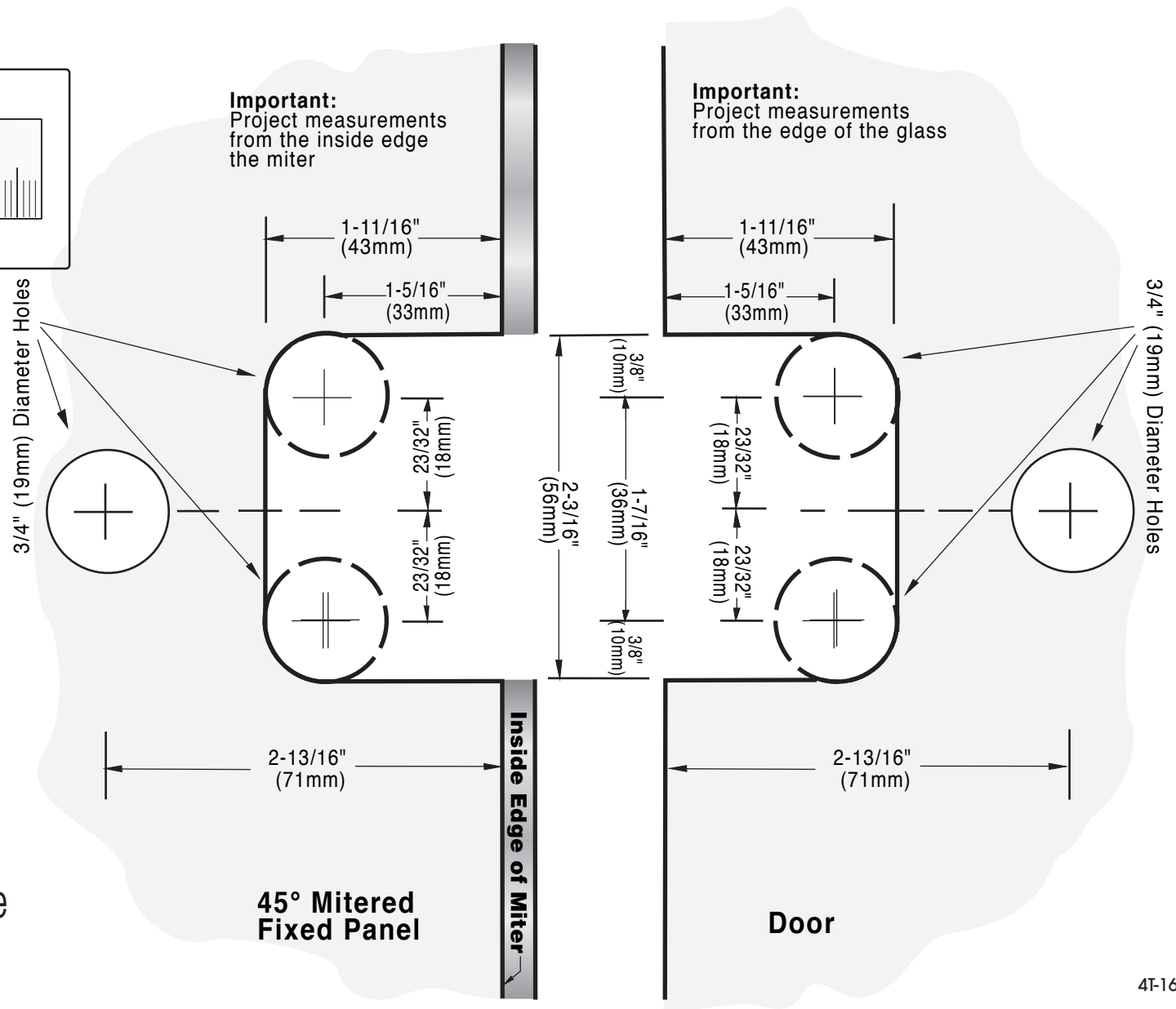
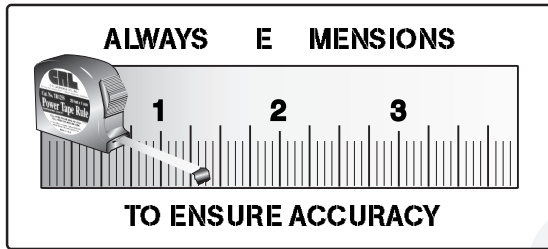
BERLIN

135° Glass-to-Glass Hinge

CAT. No. BER135

* Maximum Door Capacities	1/4" (6mm) Glass		5/16" (8mm) Glass	
	Weight	Width	Weight	Width
Using 2 Hinges	60 lbs.(27 kg)	28"(711mm)	60 lbs.(27 kg)	28"(711mm)
Using 3 Hinges	90 lbs.(41 kg)	32"(813 mm)	90 lbs.(41 kg)	32"(813 mm)

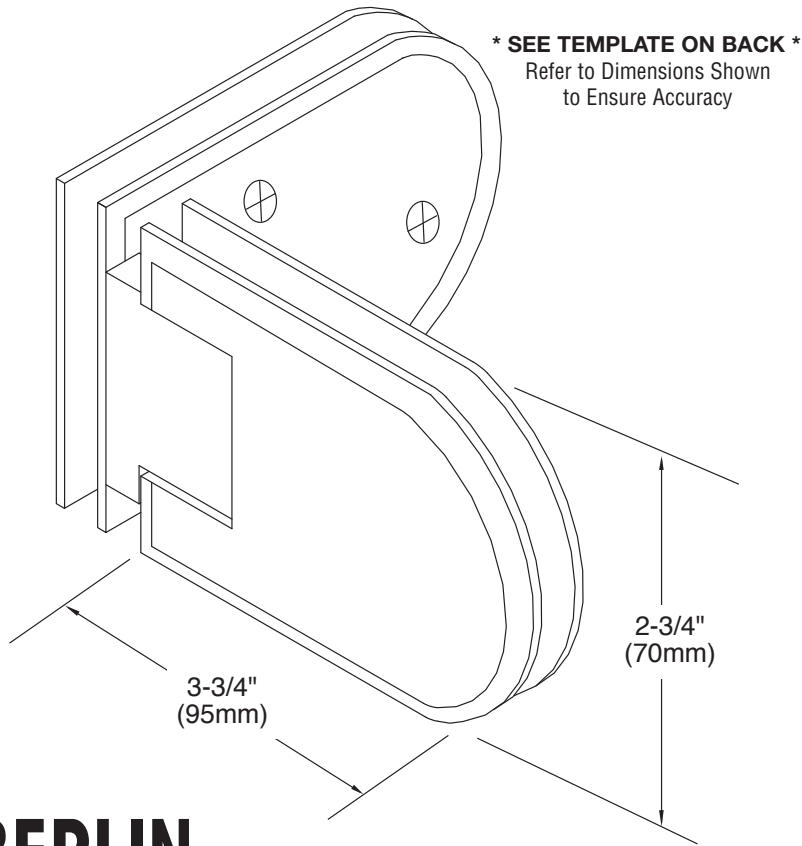
***NOTE:** Do not exceed either maximum weight or width when choosing proper quantity of hinges.



BERLIN
 135° Glass-to-Glass Hinge
 CAT. No. BER135



C.R. LAURENCE CO., INC.
PROFESSIONAL QUALITY



*** SEE TEMPLATE ON BACK ***
 Refer to Dimensions Shown
 to Ensure Accuracy

Important Information:

The door template is a cutout plus a hole.
 The fixed panel template is holes only.

Specifications:

Glass Sizes: 1/4" (6mm) to 5/16" (8mm) thick tempered safety glass

Construction: Solid brass

Closing Type: Self-centering when within 15° of closed position

Cutout Required

Includes: Gaskets, screws and template

Use of Gaskets:

For 1/4"(6mm) Glass: Use one thick gasket on each side

For 5/16"(8mm) Glass: Use one thin gasket on each side

Recommendations:

For public safety, we recommend the use of only tempered safety glass.
 Do not use power tools when installing these hinges.

Maintenance Guidelines:

- Never use an abrasive cleaner on the hardware. Many of the components are coated with a clear lacquer that will be irreparably damaged if subjected to harsh, abrasive chemicals. Advise your customer that drying the hardware with a clean, soft towel on a daily basis is the best way to maintain the hardware. If mineral deposits build-up, mix a couple of drops of a mild liquid soap (such as Ivory or a similar product) into a cup of warm water. Using a soft, non-abrasive cloth, clean the hardware. Rinse thoroughly with clean warm water and dry.

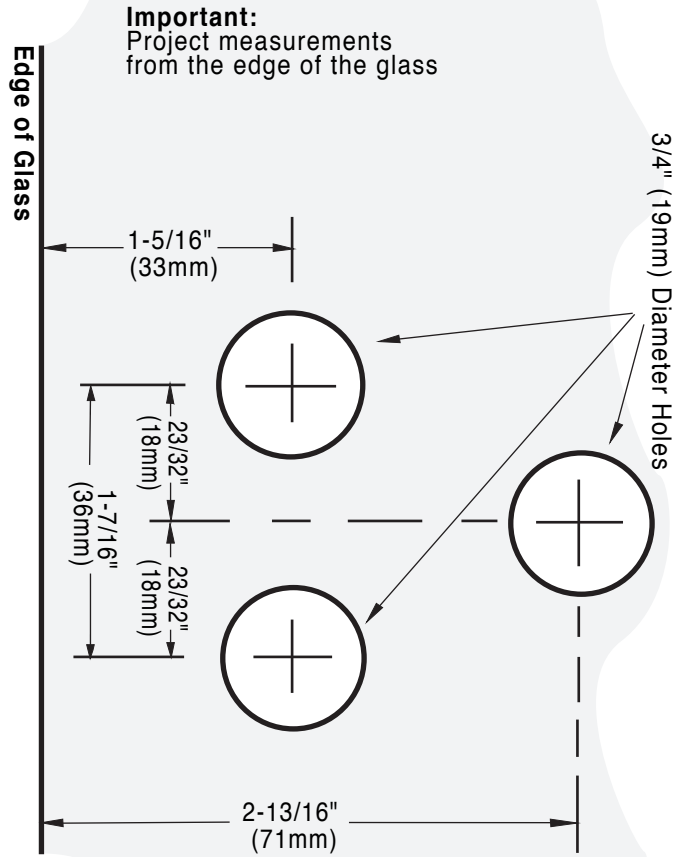
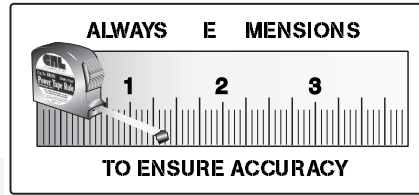
BERLIN

90° Glass-to-Glass Hinge

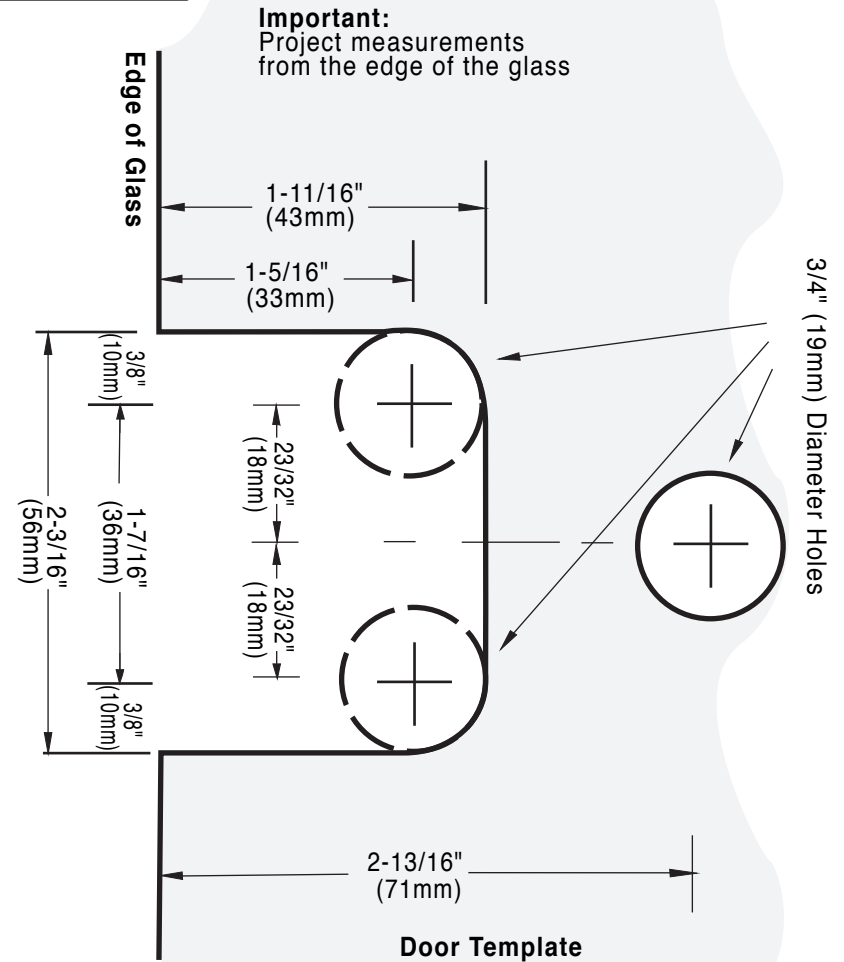
CAT. No. BER090

*Maximum Door Capacities	1/4" (6mm) Glass		5/16" (8mm) Glass	
	Weight	Width	Weight	Width
Using 2 Hinges	60 lbs.(27 kg)	28"(711mm)	60 lbs.(27 kg)	28"(711mm)
Using 3 Hinges	90 lbs.(41 kg)	32"(813mm)	90 lbs.(41 kg)	32"(813mm)

***NOTE:** Do not exceed either maximum weight or width when choosing proper quantity of hinges.



Fixed Panel Template

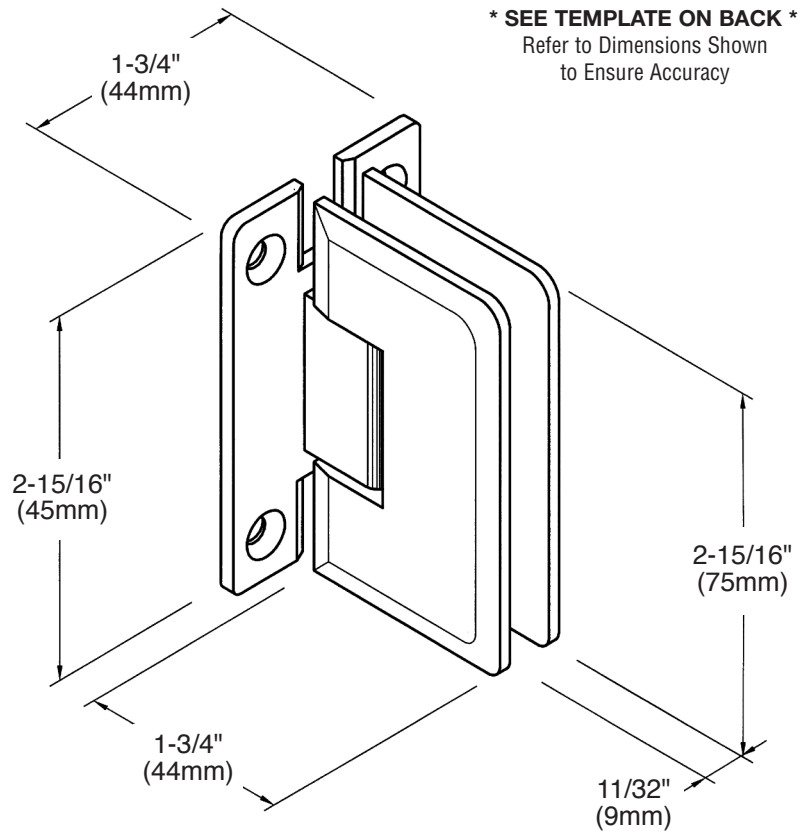


Door Template

BERLIN
90° Glass-to-Glass Hinge
CAT. No. BER090



C.R. LAURENCE CO., INC.
PROFESSIONAL QUALITY



Important Information:

The Trianon Series of Hinges are equipped with a dual degree pivot pin. The pivot pin is set by the manufacturer for normal door closing position. You have the option of altering the closing position of the door 5 degrees by utilizing the opposite side of the pivot pin, which has been pre-machined (see Section 3 for this procedure).

Specifications:

- Glass Sizes:** 1/4" (6mm) to 5/16" (8mm) thick tempered safety glass
- Construction:** Solid brass
- Closing Type:** Self-centering when within 15° of closed position
- Cutout Required**
- Includes:** Gaskets, screws and template

Use of Gaskets:

- For 1/4"(6mm) Glass:** Use one thick gasket on each side
- For 5/16"(8mm) Glass:** Use one thin gasket on each side

Recommendations:

For public safety, we recommend the use of only tempered safety glass. Do not use power tools when installing these hinges.

Maintenance Guidelines:

- Our hinges are greased at the factory for quiet and trouble-free operation. If there is any squeaking that occurs after installation, put a drop of "3 in 1 Oil" (also known as "household oil") on the white nylon washer that the hinge body pivots on. This washer is the component that acts as a buffer, so the body of the hinge doesn't pivot directly on the brass center block. This solution doesn't require the disassembly of the hinge. **Note: Do not use spray lubricant on these hinges.** If the hinge has been disassembled, upon re-assembly, use white lithium grease to lubricate the interior mechanism.
- Never use an abrasive cleaner on the hardware. Many of the components are coated with a clear lacquer that will be irreparably damaged if subjected to harsh, abrasive chemicals. Advise your customer that drying the hardware with a clean, soft towel on a daily basis is the best way to maintain the hardware. If mineral deposits build-up, mix a couple of drops of a mild liquid soap (such as Ivory or a similar product) into a cup of warm water. Using a soft, non-abrasive cloth, clean the hardware. Rinse thoroughly with clean, warm water and dry.

TRIANON

Wall Mount Hinge – Standard Back Plate

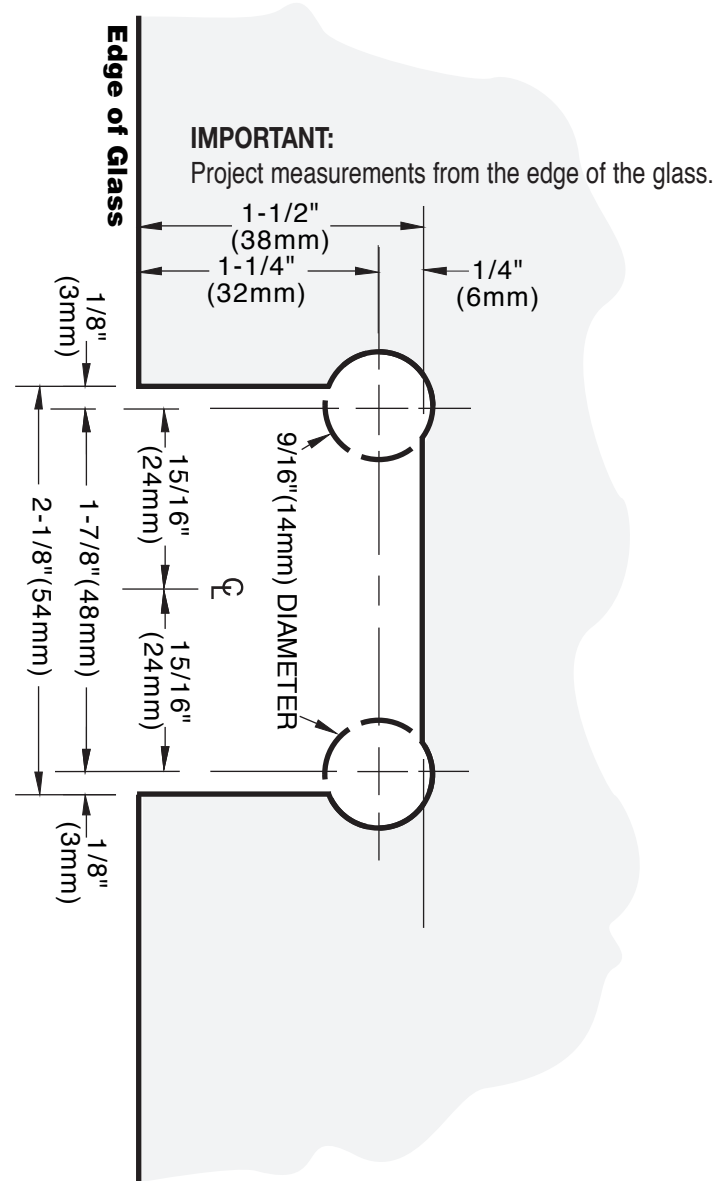
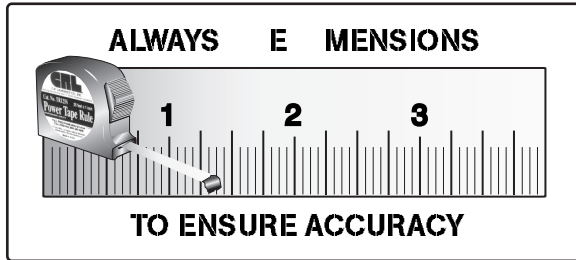
CAT No. TR1037

*Maximum Door Capacities	1/4" (6mm) Glass		5/16" (8mm) Glass	
	Weight	Width	Weight	Width
Using 2 Hinges	62 lbs.(28 kg)	28"(711mm)	62 lbs.(28 kg)	28"(711mm)
Using 3 Hinges	92 lbs.(42 kg)	32"(813mm)	92 lbs.(42 kg)	32"(813mm)

*NOTE: Do not exceed either maximum weight or width when choosing proper quantity of hinges.



C.R. LAURENCE CO., INC.
PROFESSIONAL QUALITY



TRIANON

Wall Mount Hinge – Standard Back Plate

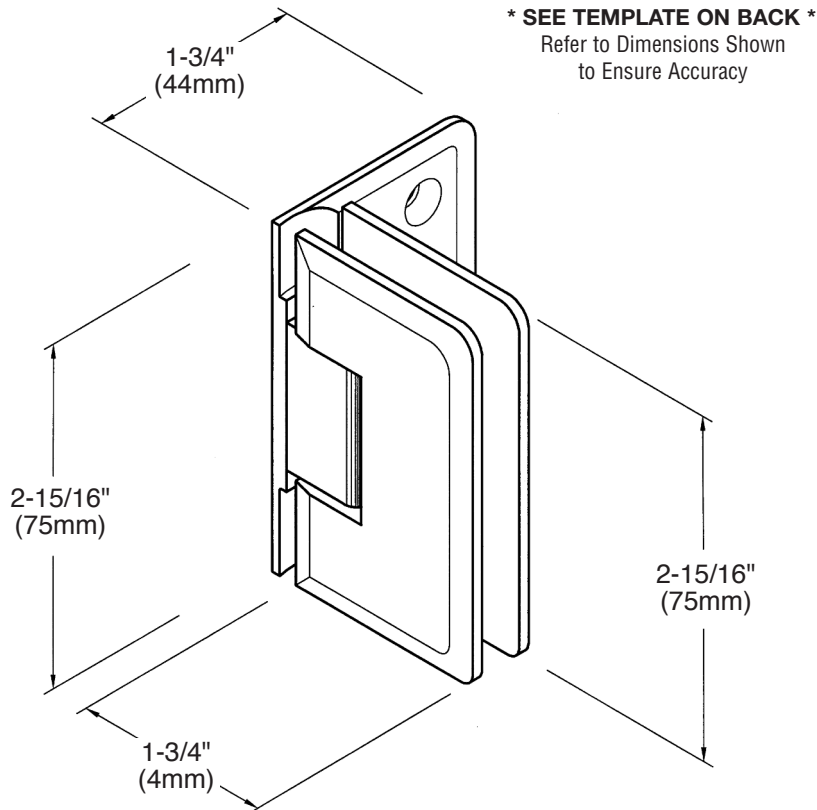
CAT No. TR1037

C.R. Laurence Co., Inc.
 crlaurence.com

For technical assistance in the United States call toll free (800) 421-6144; from Canada call toll free (877) 421-6144; Outside the U.S. and Canada call (323) 588-1281. Ask for Tech Sales at Extension 7740. Toll free fax (800) 458-7496.



C.R. LAURENCE CO., INC.
PROFESSIONAL QUALITY



TRIANON

Wall Mount Hinge – Offset Back Plate

CAT No. TR1044

*Maximum Door Capacities	1/4" (6mm)		5/16" (8mm)	
	Weight	Width	Weight	Width
Using 2 Hinges	62 lbs.(28 kg)	28"(711mm)	62 lbs.(28 kg)	28"(711mm)
Using 3 Hinges	92 lbs.(32 kg)	32"(813mm)	92 lbs.(42 kg)	32"(813mm)

*NOTE: Do not exceed either maximum weight or width when choosing proper quantity of hinges.

Important Information:

The Trianon Series of Hinges are equipped with a dual degree pivot pin. The pivot pin is set by the manufacturer for normal door closing position. You have the option of altering the closing position of the door 5 degrees by utilizing the opposite side of the pivot pin, which has been pre-machined (see Section 3 for this procedure).

Specifications:

Glass Sizes: 1/4" (6mm) to 5/16" (8mm) thick tempered safety glass

Construction: Solid brass

Closing Type: Self-centering when within 15° of closed position

Cutout Required

Includes: Gaskets, screws and template

Use of Gaskets:

For 1/4"(6mm) Glass: Use one thick gasket on each side

For 5/16"(8mm) Glass: Use one thin gasket on each side

Recommendations:

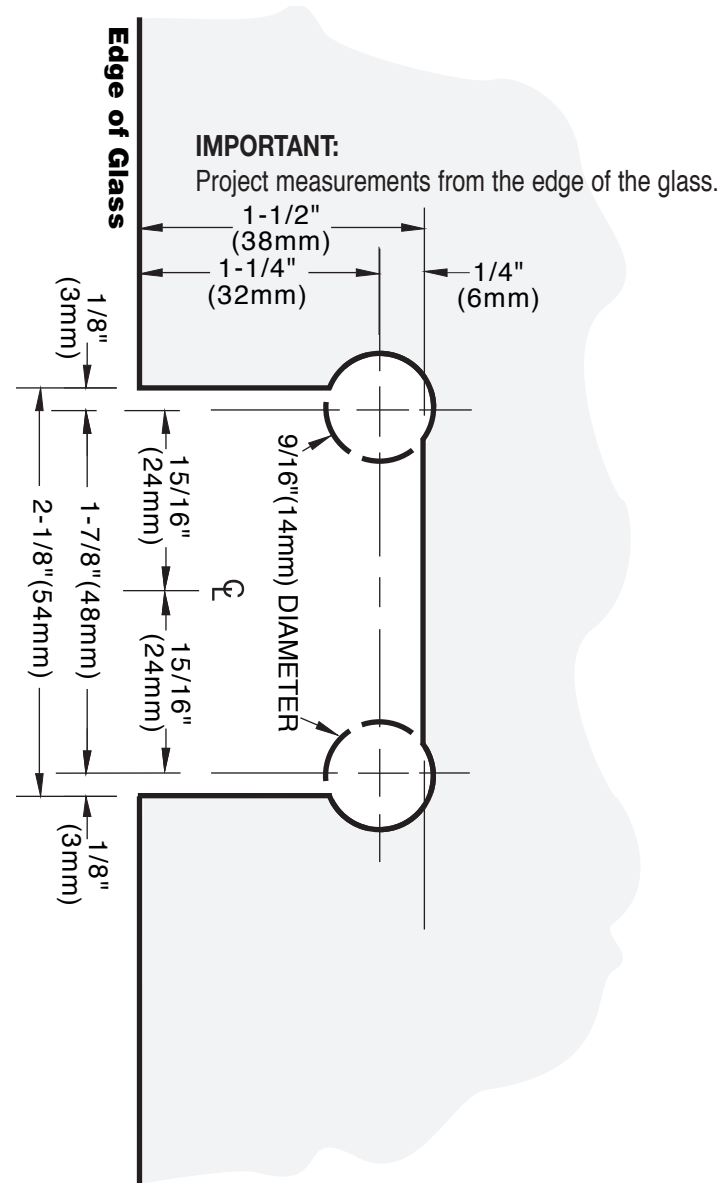
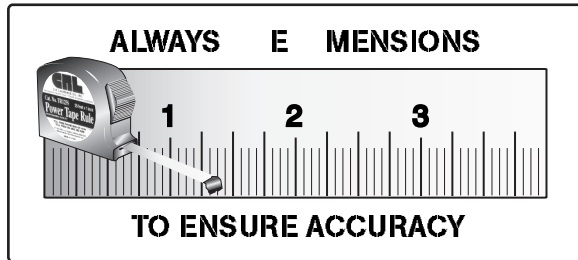
For public safety, we recommend the use of only tempered safety glass. Do not use power tools when installing these hinges.

Maintenance Guidelines:

- Our hinges are greased at the factory for quiet and trouble-free operation. If there is any squeaking that occurs after installation, put a drop of "3 in 1 Oil" (also known as "household oil") on the white nylon washer that the hinge body pivots on. This washer is the component that acts as a buffer, so the body of the hinge doesn't pivot directly on the brass center block. This solution doesn't require the disassembly of the hinge.
Note: Do not use spray lubricant on these hinges. If the hinge has been disassembled, upon re-assembly, use white lithium grease to lubricate the interior mechanism.
- Never use an abrasive cleaner on the hardware. Many of the components are coated with a clear lacquer that will be irreparably damaged if subjected to harsh, abrasive chemicals. Advise your customer that drying the hardware with a clean, soft towel on a daily basis is the best way to maintain the hardware. If mineral deposits build-up, mix a couple of drops of a mild liquid soap (such as Ivory or a similar product) into a cup of warm water. Using a soft, non-abrasive cloth, clean the hardware. Rinse thoroughly with clean, warm water and dry.



C.R. LAURENCE CO., INC.
PROFESSIONAL QUALITY



TRIANON

Wall Mount Hinge – Offset Back Plate

CAT No. TR1044

C.R. Laurence Co., Inc.
 crlaurence.com

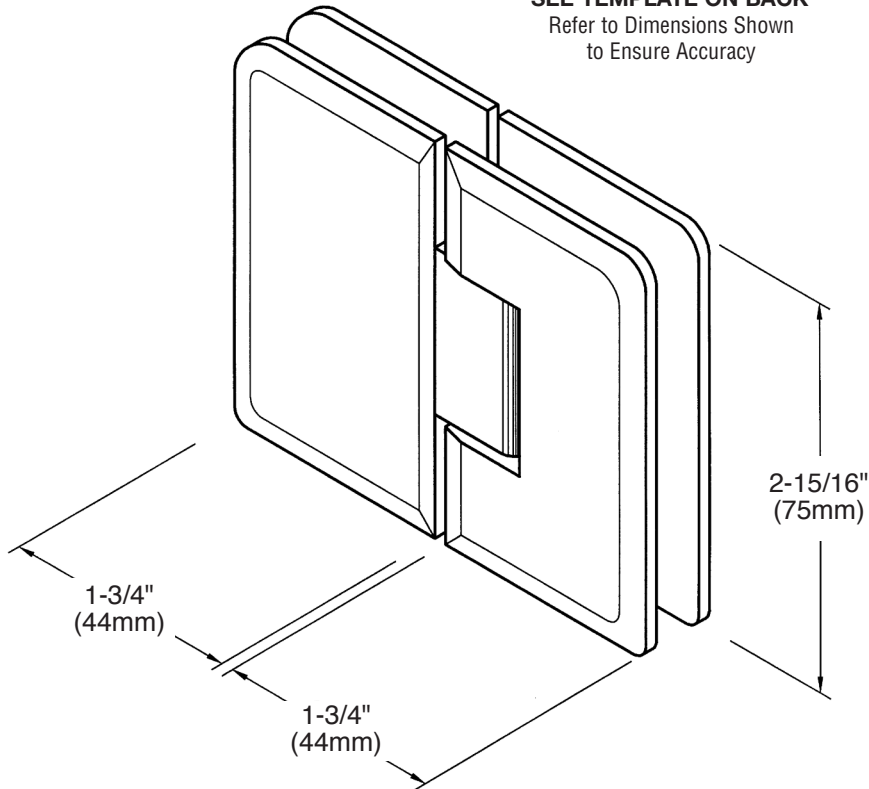
For technical assistance in the United States call toll free (800) 421-6144; from Canada call toll free (877) 421-6144; Outside the U.S. and Canada call (323) 588-1281. Ask for Tech Sales at Extension 7740. Toll free fax (800) 458-7496.

© Copyright 2005, C.R. Laurence Co., Inc_SDT21_US



C.R. LAURENCE CO., INC.
PROFESSIONAL QUALITY

*** SEE TEMPLATE ON BACK ***
 Refer to Dimensions Shown
 to Ensure Accuracy



Important Information:

- 1) The Trianon Series of Hinges are equipped with a dual degree pivot pin. The pivot pin is set by the manufacturer for normal door closing position. You have the option of altering the closing position of the door 5 degrees by utilizing the opposite side of the pivot pin, which has been pre-machined (see Section 3 for this procedure).
- 2) The door and fixed panel use the same cutout.

Specifications:

Glass Sizes: 1/4" (6mm) to 5/16" (8mm) thick tempered safety glass

Construction: Solid brass

Closing Type: Self-centering when within 15° of closed position

Cutout Required

Includes: Gaskets, screws and template

Use of Gaskets:

For 1/4"(6mm) Glass: Use one thick gasket on each side

For 5/16"(8mm) Glass: Use one thin gasket on each side

Recommendations:

For public safety, we recommend the use of only tempered safety glass. Do not use power tools when installing these hinges.

Maintenance Guidelines:

- Our hinges are greased at the factory for quiet and trouble-free operation. If there is any squeaking that occurs after installation, put a drop of "3 in 1 Oil" (also known as "household oil") on the white nylon washer that the hinge body pivots on. This washer is the component that acts as a buffer, so the body of the hinge doesn't pivot directly on the brass center block. This solution doesn't require the disassembly of the hinge.
Note: Do not use spray lubricant on these hinges. If the hinge has been disassembled, upon re-assembly, use white lithium grease to lubricate the interior mechanism.
- Never use an abrasive cleaner on the hardware. Many of the components are coated with a clear lacquer that will be irreparably damaged if subjected to harsh, abrasive chemicals. Advise your customer that drying the hardware with a clean, soft towel on a daily basis is the best way to maintain the hardware. If mineral deposits build-up, mix a couple of drops of a mild liquid soap (such as Ivory or a similar product) into a cup of warm water. Using a soft, non-abrasive cloth, clean the hardware. Rinse thoroughly with clean, warm water and dry.

TRIANON

180° Glass-to-Glass Hinge

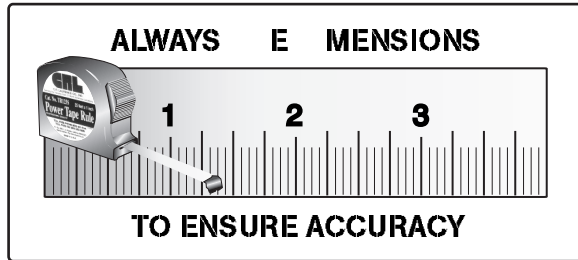
CAT No. TR1180

*Maximum Door Capacities	1/4" (6mm)		5/16" (8mm)	
	Weight	Width	Weight	Width
Using 2 Hinges	62 lbs.(28 kg)	28"(711mm)	62 lbs.(28 kg)	28"(711mm)
Using 3 Hinges	92 lbs.(42 kg)	32"(813mm)	92 lbs.(42 kg)	32"(813mm)

***NOTE:** Do not exceed either maximum weight or width when choosing proper quantity of hinges.



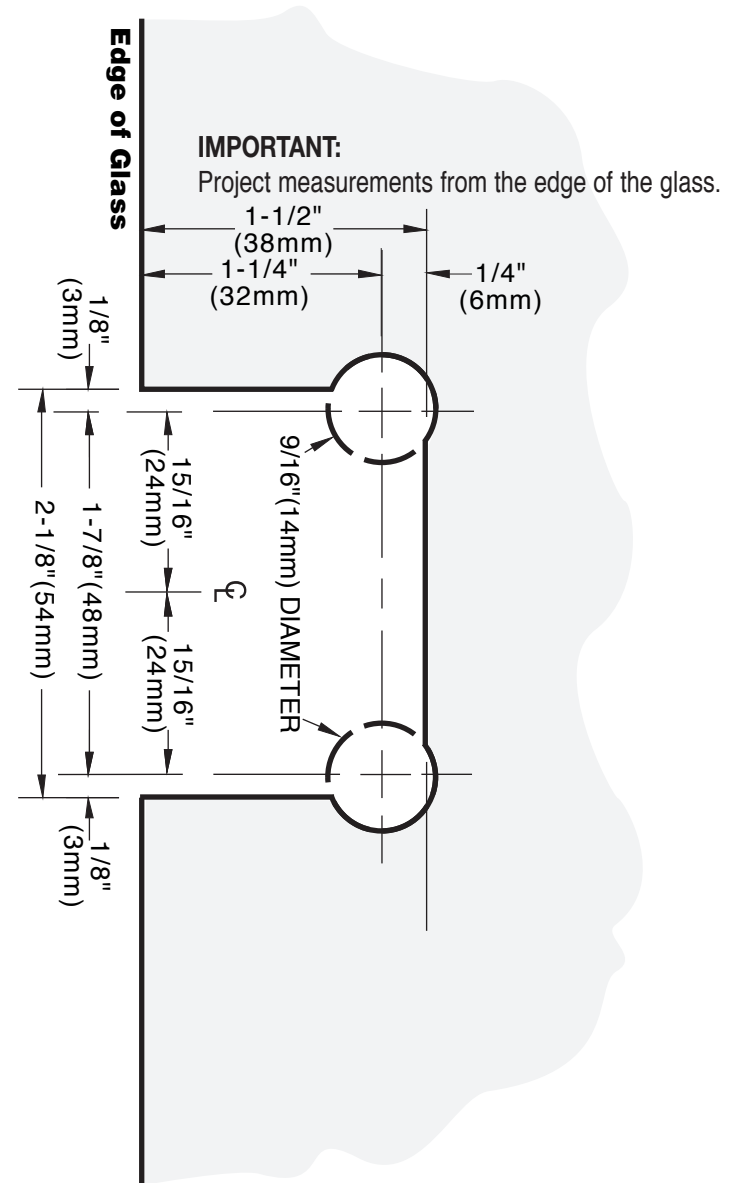
C.R. LAURENCE CO., INC.
PROFESSIONAL QUALITY



TRIANON

180° Glass-to-Glass Hinge

CAT No. TR1180



C.R. Laurence Co., Inc.
 crlaurence.com

For technical assistance in the United States call toll free (800) 421-6144; from Canada call toll free (877) 421-6144; Outside the U.S. and Canada call (323) 588-1281. Ask for Tech Sales at Extension 7740. Toll free fax (800) 458-7496.



Important Information:

- 1) The Trianon Series of Hinges are equipped with a dual degree pivot pin. The pivot pin is set by the manufacturer for normal door closing position. You have the option of altering the closing position of the door 5 degrees by utilizing the opposite side of the pivot pin, which has been pre-machined (see Section 3 for this procedure).
- 2) The fixed panel measurements must be taken from the inside of the miter.

Specifications:

Glass Sizes: 1/4" (6mm) to 5/16" (8mm) thick tempered safety glass
Construction: Solid brass
Closing Type: Self-centering when within 15° of closed position
Cutout Required
Includes: Gaskets, screws and template

Use of Gaskets:

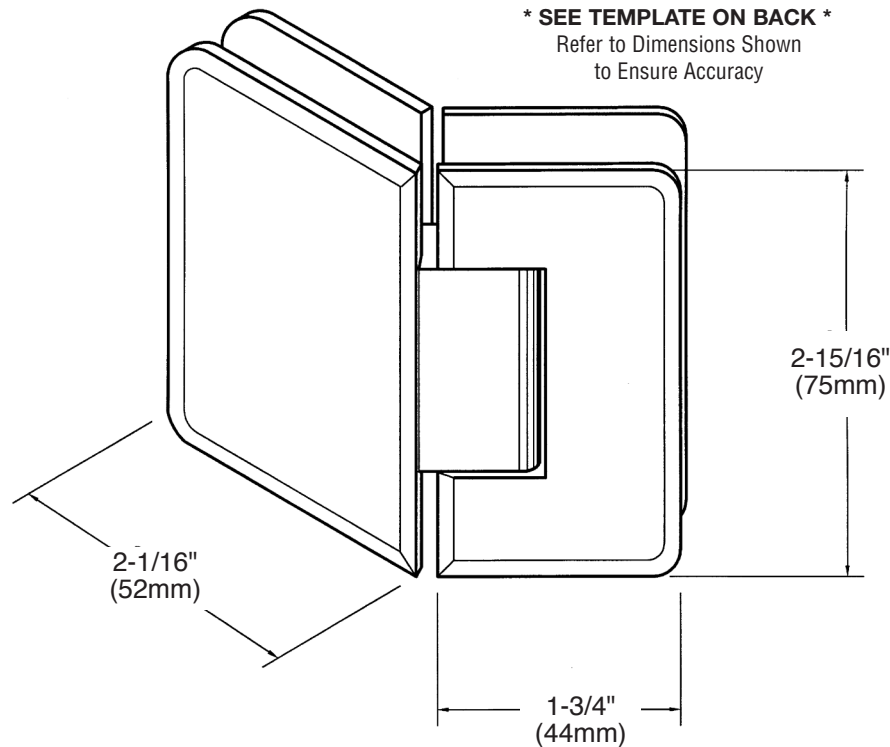
For 1/4" (6mm) Glass: Use one thick gasket on each side
For 5/16" (8mm) Glass: Use one thin gasket on each side

Recommendations:

For public safety, we recommend the use of only tempered safety glass. Do not use power tools when installing these hinges.

Maintenance Guidelines:

- Our hinges are greased at the factory for quiet and trouble-free operation. If there is any squeaking that occurs after installation, put a drop of "3 in 1 Oil" (also known as "household oil") on the white nylon washer that the hinge body pivots on. This washer is the component that acts as a buffer, so the body of the hinge doesn't pivot directly on the brass center block. This solution doesn't require the disassembly of the hinge.
Note: Do not use spray lubricant on these hinges. If the hinge has been disassembled, upon re-assembly, use white lithium grease to lubricate the interior mechanism.
- Never use an abrasive cleaner on the hardware. Many of the components are coated with a clear lacquer that will be irreparably damaged if subjected to harsh, abrasive chemicals. Advise your customer that drying the hardware with a clean, soft towel on a daily basis is the best way to maintain the hardware. If mineral deposits build-up, mix a couple of drops of a mild liquid soap (such as Ivory or a similar product) into a cup of warm water. Using a soft, non-abrasive cloth, clean the hardware. Rinse thoroughly with clean, warm water and dry.



(This hinge requires two different templates, one for the door and one for the mitered fixed panel.)

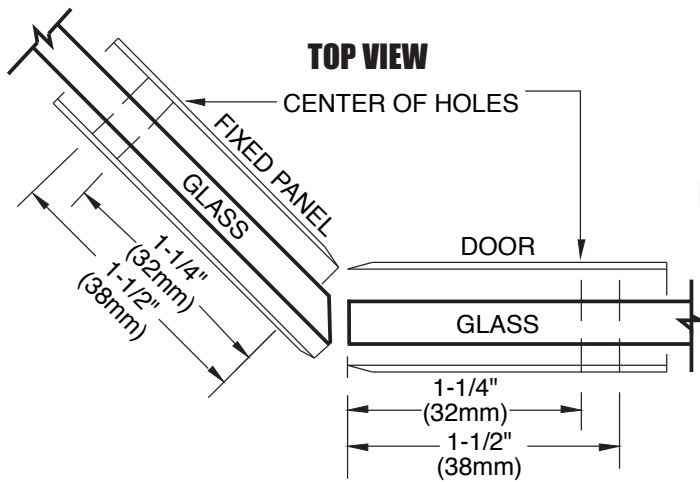
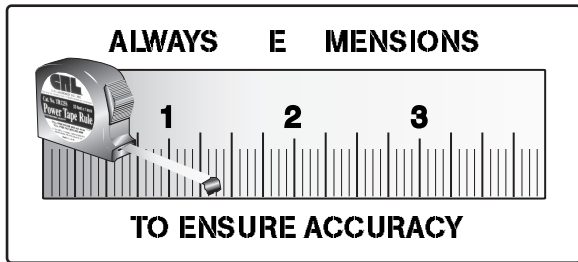
TRIANON

135° Glass-to-Glass Hinge

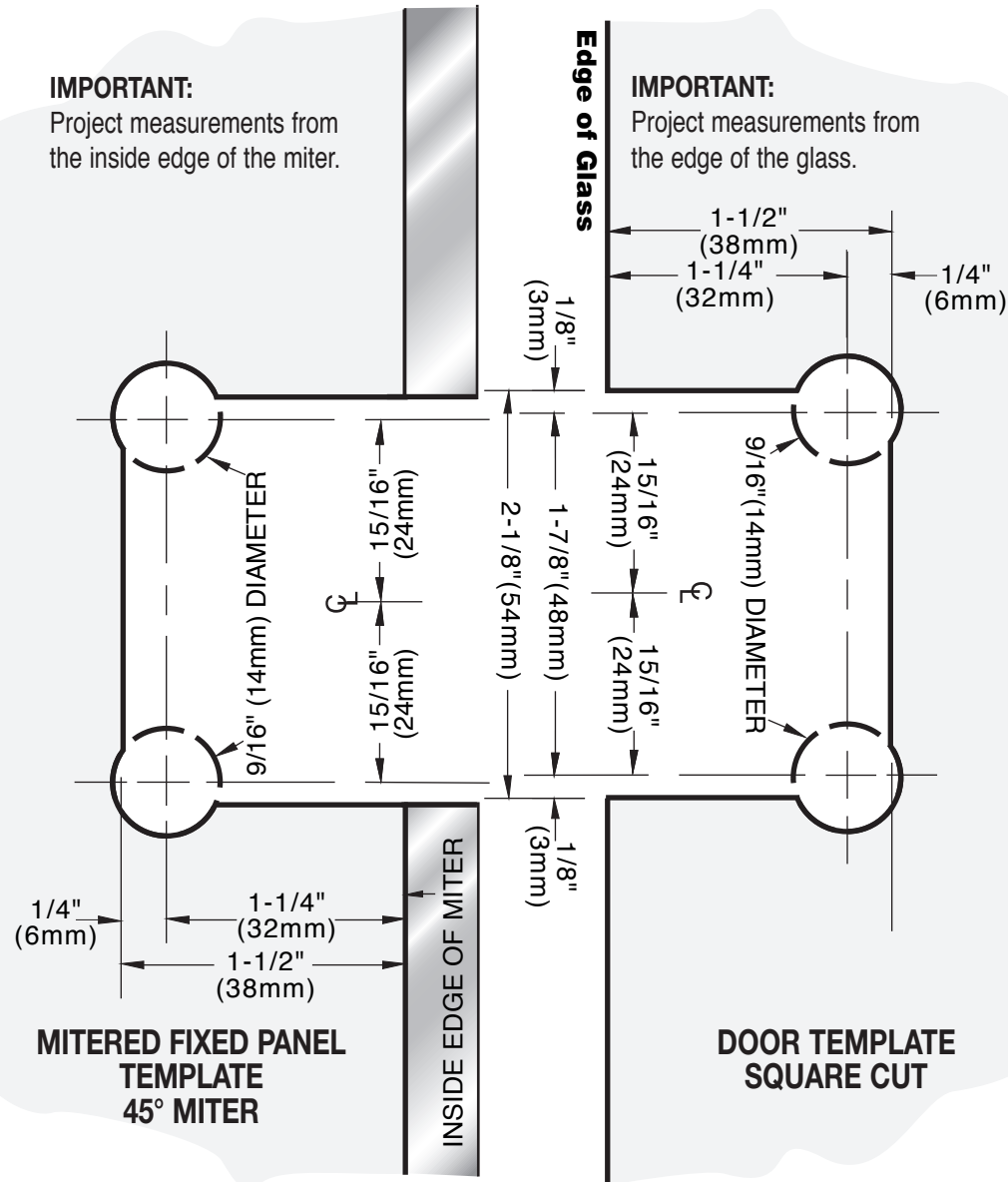
Cat. No. TR1045

*Maximum Door Capacities	1/4" (6mm)		5/16" (8mm)	
	Weight	Width	Weight	Width
Using 2 Hinges	62 lbs.(28 kg)	28"(711mm)	62 lbs.(28 kg)	28"(711mm)
Using 3 Hinges	92 lbs.(42 kg)	32"(813mm)	92 lbs.(42 kg)	32"(813mm)

*NOTE: Do not exceed either maximum weight or width when choosing proper quantity of hinges.



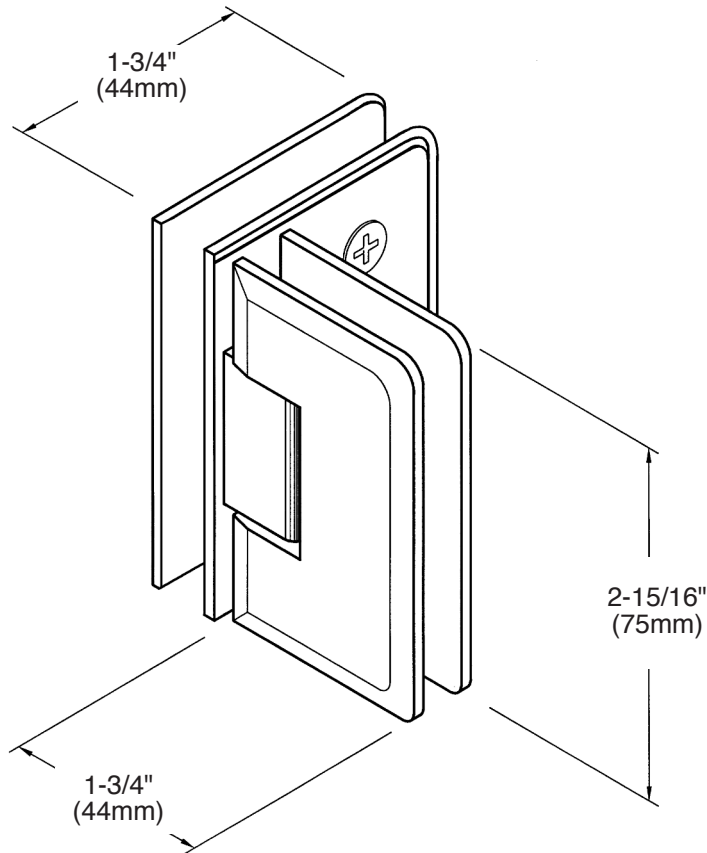
IMPORTANT:
Project measurements from the inside edge of the miter.



TRIANON
135° Glass-to-Glass Hinge
CAT. No. TR1045



C.R. LAURENCE CO., INC.
PROFESSIONAL QUALITY



TRIANON

90° Glass-to-Glass Hinge

Cat. No. TR1092

*Maximum Door Capacities	1/4" (6mm)		5/16" (8mm)	
	Weight	Width	Weight	Width
Using 2 Hinges	62 lbs.(43 kg)	28"(711mm)	62 lbs.(28 kg)	28"(711mm)
Using 3 Hinges	92 lbs.(64 kg)	32"(813mm)	92 lbs.(42 kg)	32"(813mm)

*NOTE: Do not exceed either maximum weight or width when choosing proper quantity of hinges.

Important Information:

- 1) The Trianon Series of Hinges are equipped with a dual degree pivot pin. The pivot pin is set by the manufacturer for normal door closing position. You have the option of altering the closing position of the door 5 degrees by utilizing the opposite side of the pivot pin, which has been pre-machined (see Section 3 for this procedure).
- 2) The door requires a cutout. The fixed panel requires holes.

Specifications:

Glass Sizes: 1/4" (6mm) to 5/16" (8mm) thick tempered safety glass
Construction: Solid brass
Closing Type: Self-centering when within 15° of closed position
Cutout Required: Door **Holes Required:** Fixed Panel
Includes: Gaskets, screws and template

Use of Gaskets:

For 1/4"(6mm) Glass: Use one thick gasket on each side
For 5/16"(8mm) Glass: Use one thin gasket on each side

Recommendations:

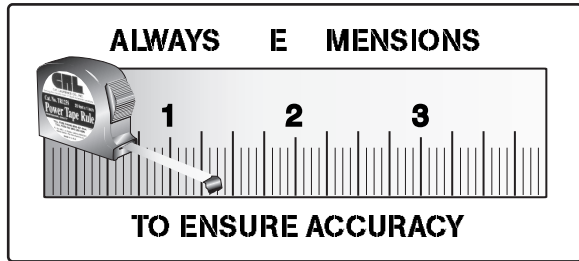
For public safety, we recommend the use of only tempered safety glass.
 Do not use power tools when installing these hinges.

Maintenance Guidelines:

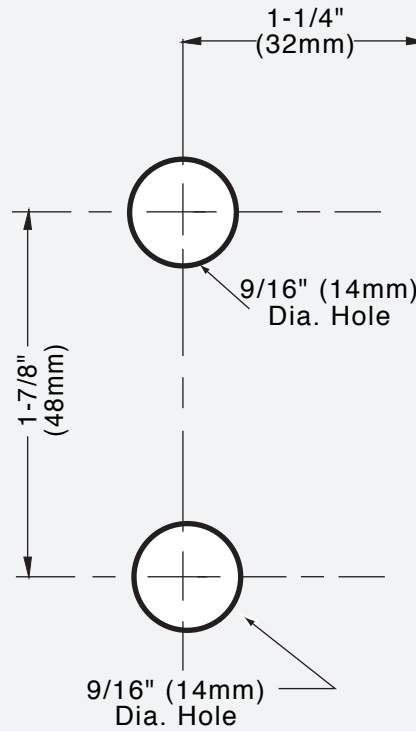
- Our hinges are greased at the factory for quiet and trouble-free operation. If there is any squeaking that occurs after installation, put a drop of "3 in 1 Oil" (also known as "household oil") on the white nylon washer that the hinge body pivots on. This washer is the component that acts as a buffer, so the body of the hinge doesn't pivot directly on the brass center block. This solution doesn't require the disassembly of the hinge.
Note: Do not use spray lubricant on these hinges. If the hinge has been disassembled, upon re-assembly, use white lithium grease to lubricate the interior mechanism.
- Never use an abrasive cleaner on the hardware. Many of the components are coated with a clear lacquer that will be irreparably damaged if subjected to harsh, abrasive chemicals. Advise your customer that drying the hardware with a clean, soft towel on a daily basis is the best way to maintain the hardware. If mineral deposits build-up, mix a couple of drops of a mild liquid soap (such as Ivory or a similar product) into a cup of warm water. Using a soft, non-abrasive cloth, clean the hardware. Rinse thoroughly with clean, warm water and dry.



C.R. LAURENCE CO., INC.
PROFESSIONAL QUALITY

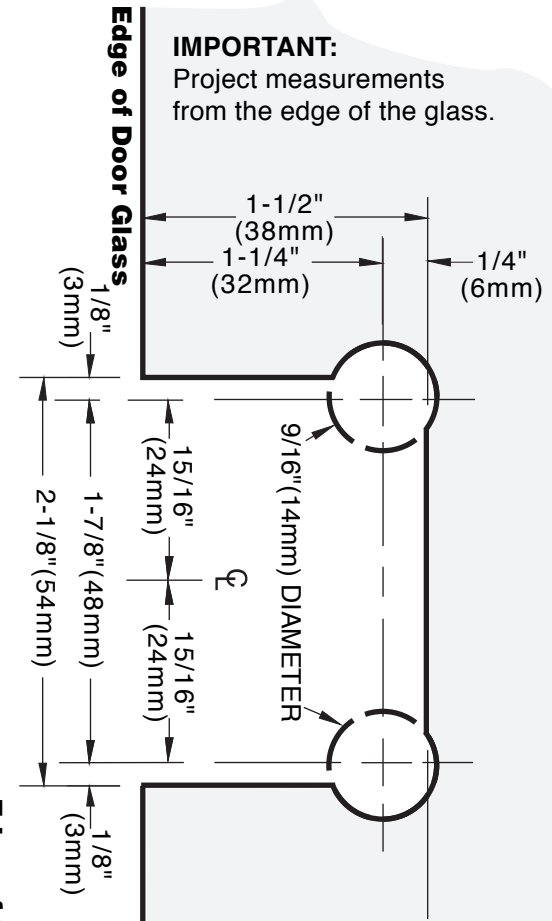


IMPORTANT:
 Project measurements
 from the edge of the glass.



Fixed Panel Template

IMPORTANT:
 Project measurements
 from the edge of the glass.



Door Template

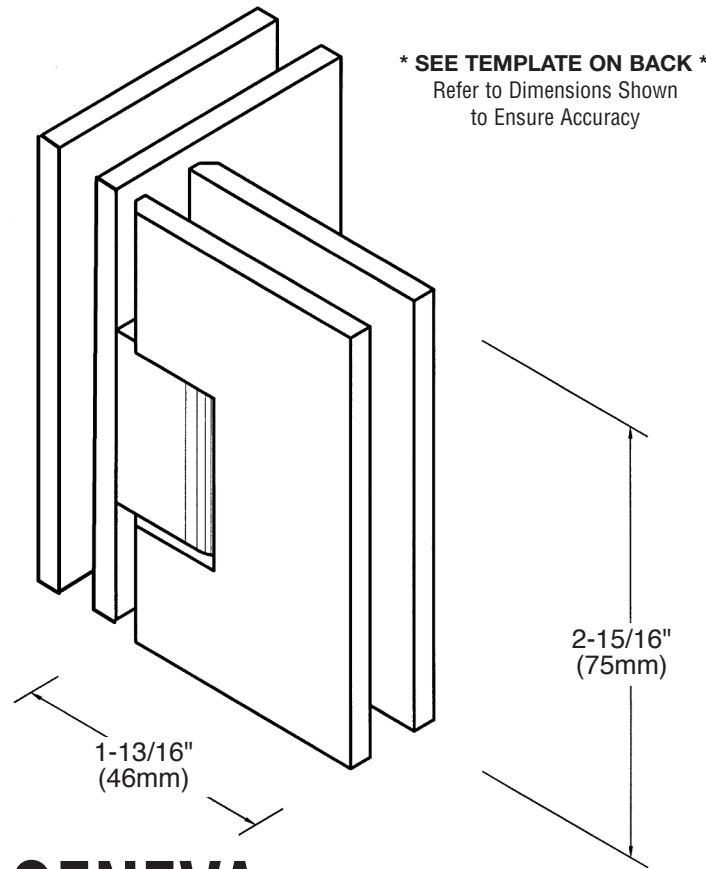
TRIANON

90° Glass-to-Glass Hinge
 CAT. No. TR1092

C.R. Laurence Co., Inc. For technical assistance in the United States call toll free (800) 421-6144; from Canada call toll free (877) 421-6144;
 crlaurence.com Outside the U.S. and Canada call (323) 588-1281. Ask for Tech Sales at Extension 7740. Toll free fax (800) 458-7496.



C.R. LAURENCE CO., INC.
PROFESSIONAL QUALITY



*** SEE TEMPLATE ON BACK ***
Refer to Dimensions Shown
to Ensure Accuracy

Important Information:

- 1) The Jr. Geneva Series of Hinges are equipped with a dual degree pivot pin. The pivot pin is set by the manufacturer for normal door closing position. You have the option of altering the closing position of the door 5 degrees by utilizing the opposite side of the pivot pin, which has been pre-machined (see Section 3 for this procedure).
2. The door requires a cutout. The fixed panel requires holes.

Specifications:

Glass Sizes: 1/4" (6mm) to 5/16" (8mm) thick tempered safety glass
Construction: Solid brass
Closing Type: Self-centering when within 15° of closed position
Cutout Required: Door **Holes Required:** Fixed Panel
Includes: Gaskets, screws and template

Use of Gaskets:

For 1/4"(6mm) Glass: Use one thick gasket on each side
For 5/16"(8mm) Glass: Use one thin gasket on each side

Recommendations:

For public safety, we recommend the use of only tempered safety glass.
 Do not use power tools when installing these hinges.

Maintenance Guidelines:

- Our hinges are greased at the factory for quiet and trouble-free operation. If there is any squeaking that occurs after installation, put a drop of "3 in 1 Oil" (also known as "household oil") on the white nylon washer that the hinge body pivots on. This washer is the component that acts as a buffer, so the body of the hinge doesn't pivot directly on the brass center block. This solution doesn't require the disassembly of the hinge. **Note: Do not use spray lubricant on these hinges.** If the hinge has been disassembled, upon re-assembly, use white lithium grease to lubricate the interior mechanism.
- Never use an abrasive cleaner on the hardware. Many of the components are coated with a clear lacquer that will be irreparably damaged if subjected to harsh, abrasive chemicals. Advise your customer that drying the hardware with a clean, soft towel on a daily basis is the best way to maintain the hardware. If mineral deposits build-up, mix a couple of drops of a mild liquid soap (such as Ivory or a similar product) into a cup of warm water. Using a soft, non-abrasive cloth, clean the hardware. Rinse thoroughly with clean, warm water and dry.

JR. GENEVA

90° Glass-to-Glass Hinge

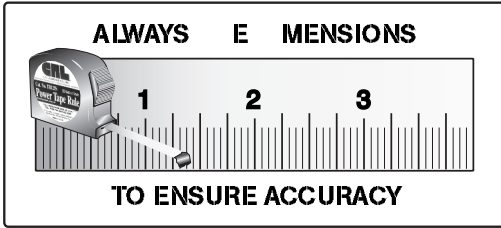
CAT. No. JRG092

*Maximum Door Capacities	1/4" (6mm) Glass		5/16" (8mm) Glass	
	Weight	Width	Weight	Width
Using 2 Hinges	62 lbs.(28 kg)	28"(711mm)	62 lbs.(28 kg)	28"(711mm)
Using 3 Hinges	92 lbs.(42 kg)	32"(813mm)	92 lbs.(42 kg)	32"(813mm)

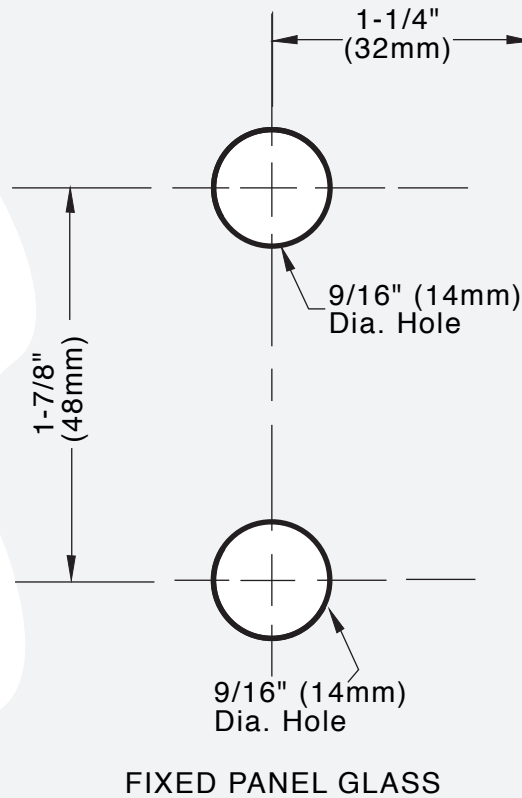
***NOTE:** Do not exceed either maximum weight or width when choosing proper quantity of hinges.



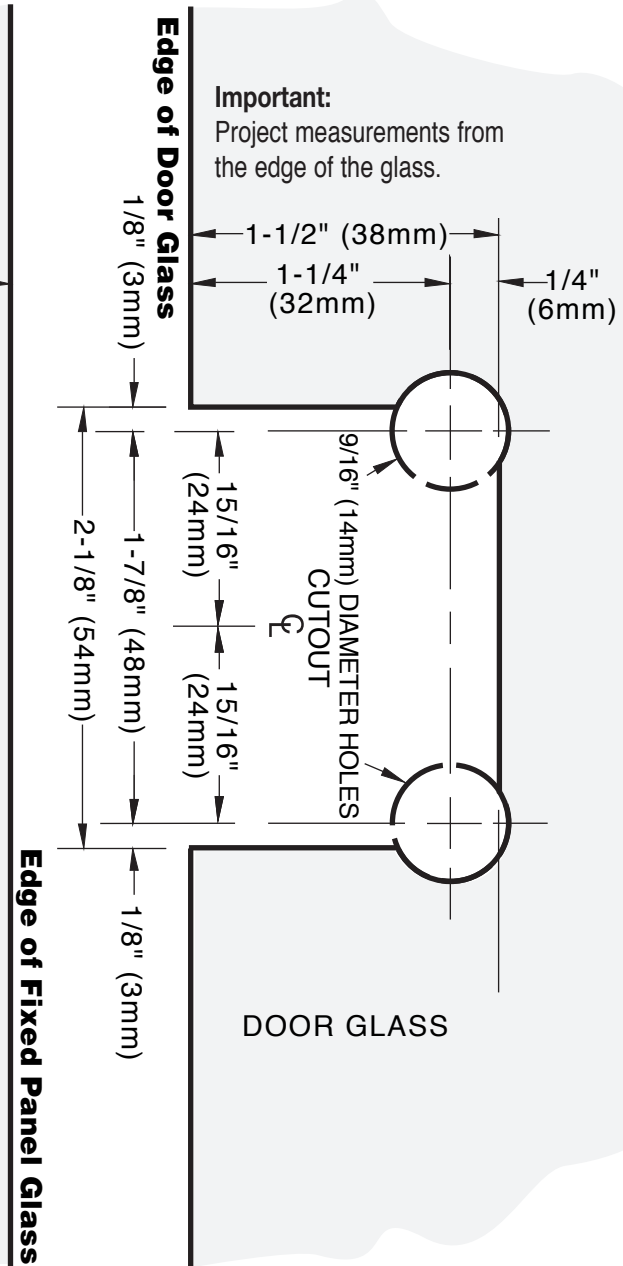
C.R. LAURENCE CO., INC.
PROFESSIONAL QUALITY



Important:
 Project measurements from
 the edge of the glass.



Important:
 Project measurements from
 the edge of the glass.



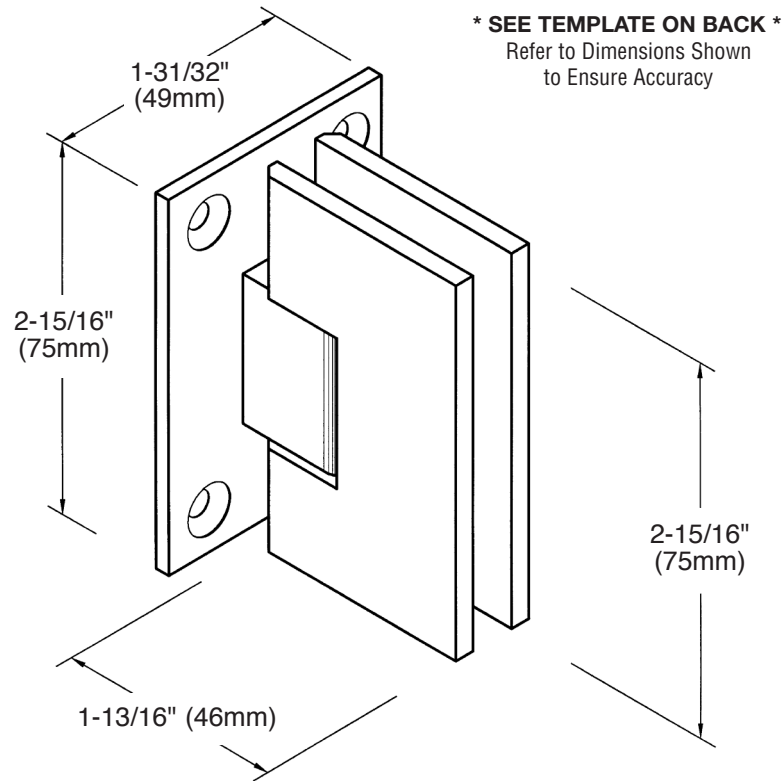
JR. GENEVA
 90° Glass-to-Glass Hinge
 CAT. No. JRG092

C.R. Laurence Co., Inc.
 crlaurence.com

For technical assistance in the United States call toll free (800) 421-6144; from Canada call toll free (877) 421-6144; Outside the U.S. and Canada call (323) 588-1281. Ask for Tech Sales at Extension 7740. Toll free fax (800) 458-7496.



C.R. LAURENCE CO., INC.
PROFESSIONAL QUALITY



Important Information:

This hinge contains a dual degree pivot pin. The pivot pin is set for the door to close 5 degrees inward from the normal closing position. You have the option of altering the closing position of the door 5 degrees (back to normal closing position) by utilizing the opposite side of the pivot pin, which has been pre-machined (see Section 3 of Cat. No. SDT21 Frameless Shower Door Guide for this procedure). Special order custom pivot pins are available (Cat.No. JRGENP1N) that can be machined at any angle up to 45 degrees.

Specifications:

Glass Sizes: 1/4" (6mm) to 5/16" (8mm) thick tempered safety glass
Construction: Solid brass
Closing Type: Self-centering when within 15° of closed position
Cutout Required
Includes: Gaskets, screws and template

Use of Gaskets:

For 1/4"(6mm) Glass: Use one thick gasket on each side
For 5/16"(8mm) Glass: Use one thin gasket on each side

Recommendations:

For public safety, we recommend the use of only tempered safety glass. Do not use power tools when installing these hinges.

Maintenance Guidelines:

- Our hinges are greased at the factory for quiet and trouble-free operation. If there is any squeaking that occurs after installation, put a drop of "3 in 1 Oil" (also known as "household oil") on the white nylon washer that the hinge body pivots on. This washer is the component that acts as a buffer, so the body of the hinge doesn't pivot directly on the brass center block. This solution doesn't require the disassembly of the hinge.
Note: Do not use spray lubricant on these hinges. If the hinge has been disassembled, upon re-assembly, use white lithium grease to lubricate the interior mechanism.
- Never use an abrasive cleaner on the hardware. Many of the components are coated with a clear lacquer that will be irreparably damaged if subjected to harsh, abrasive chemicals. Advise your customer that drying the hardware with a clean, soft towel on a daily basis is the best way to maintain the hardware. If mineral deposits build-up, mix a couple of drops of a mild liquid soap (such as Ivory or a similar product) into a cup of warm water. Using a soft, non-abrasive cloth, clean the hardware. Rinse thoroughly with clean, warm water and dry.

JR. GENEVA

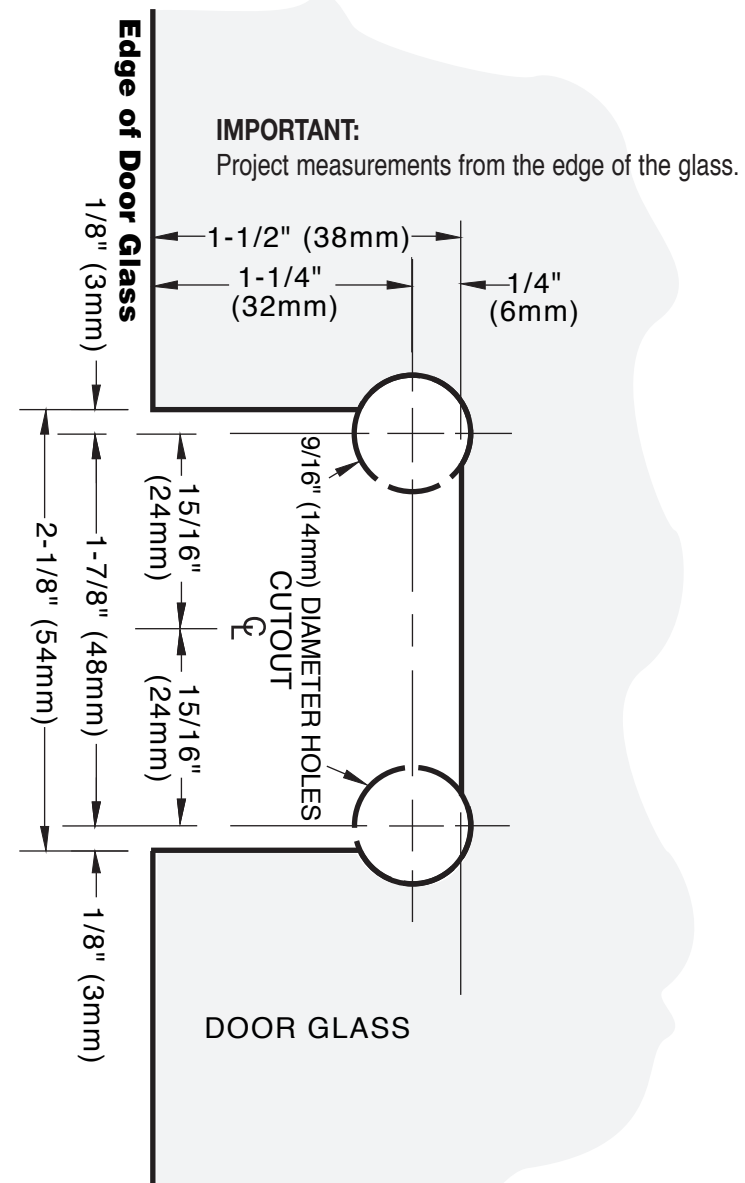
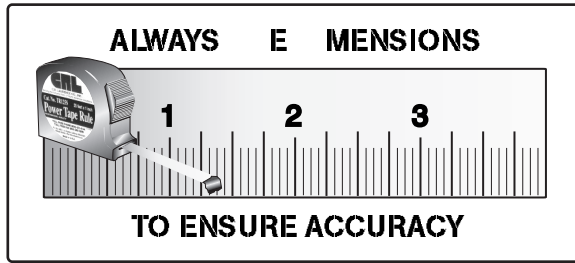
Wall Mount Hinge – Standard Back Plate (5° Offset) CAT. No. JRG537

*Maximum Door Capacities	1/4" (6mm) Glass		5/16" (8mm) Glass	
	Weight	Width	Weight	Width
Using 2 Hinges	62 lbs.(28 kg)	28"(711mm)	62 lbs.(28 kg)	28"(711mm)
Using 3 Hinges	92 lbs.(42 kg)	32"(813mm)	92 lbs.(42 kg)	32"(813mm)

*NOTE: Do not exceed either maximum weight or width when choosing proper quantity of hinges.



C.R. LAURENCE CO., INC.
PROFESSIONAL QUALITY



JR. GENEVA

Wall Mount Hinge – Standard Back Plate
 (5° Offset)

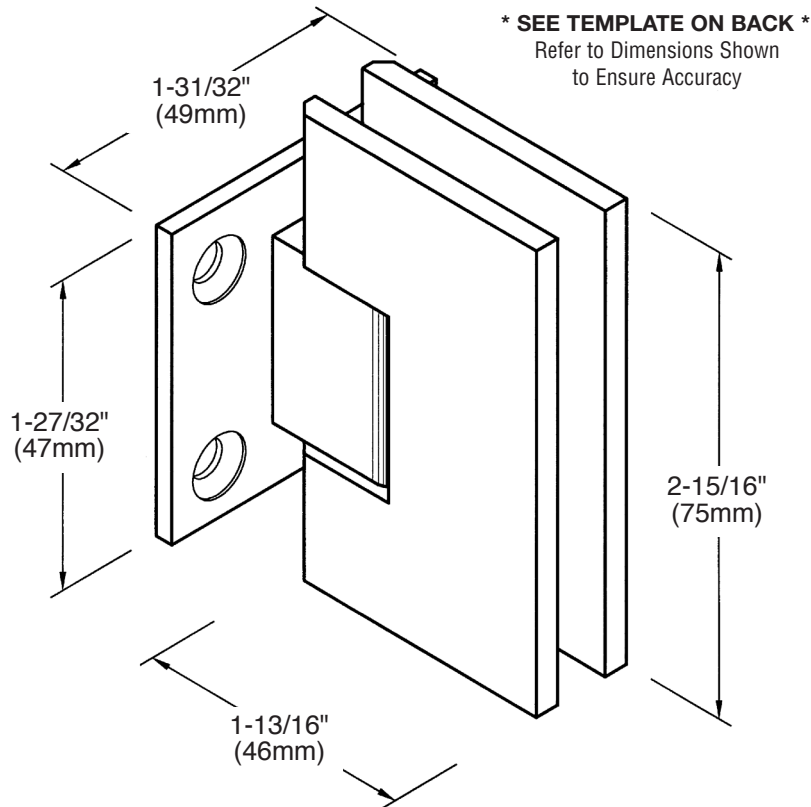
CAT. No. JRG537

C.R. Laurence Co., Inc.
 crlaurence.com

For technical assistance in the United States call toll free (800) 421-6144; from Canada call toll free (877) 421-6144; Outside the U.S. and Canada call (323) 588-1281. Ask for Tech Sales at Extension 7740. Toll free fax (800) 458-7496.



C.R. LAURENCE CO., INC.
PROFESSIONAL QUALITY



JR. GENEVA

Wall Mount Hinge – Short Back Plate (5° Offset)

CAT. No. JRG574

*Maximum Door Capacities	1/4" (6mm) Glass		5/16" (8mm) Glass	
	Weight	Width	Weight	Width
Using 2 Hinges	62 lbs.(28 kg)	28"(711mm)	62 lbs.(28 kg)	28"(711mm)
Using 3 Hinges	92 lbs.(42 kg)	32"(813mm)	92 lbs.(42 kg)	32"(813mm)

*NOTE: Do not exceed either maximum weight or width when choosing proper quantity of hinges.

Important Information:

1) This hinge contains a dual degree pivot pin. The pivot pin is set for the door to close 5 degrees inward from the normal closing position. You have the option of altering the closing position of the door 5 degrees (back to normal closing position) by utilizing the opposite side of the pivot pin, which has been pre-machined (see Section 3 of Cat. No. SDT21 Frameless Shower Door Guide for this procedure). Special order custom pivot pins are available (Cat.No. JRGENP1N) that can be machined at any angle up to 45 degrees.

2) The clearance gap required at the hinge side is 1/32" to 5/32". For an optional clearance gap of 1/8" to 1/4", see template for Cat. No. JRG037.

Use of Gaskets:

For 1/4"(6mm) Glass: Use one thick gasket on each side

For 5/16"(8mm) Glass: Use one thin gasket on each side

Specifications:

Glass Sizes: 1/4" (6mm) to 5/16" (8mm) thick tempered safety glass

Construction: Solid brass

Closing Type: Self-centering when within 15° of closed position

Cutout Required

Includes: Gaskets, screws and template

Recommendations:

For public safety, we recommend the use of only tempered safety glass.

Do not use power tools when installing these hinges.

Maintenance Guidelines:

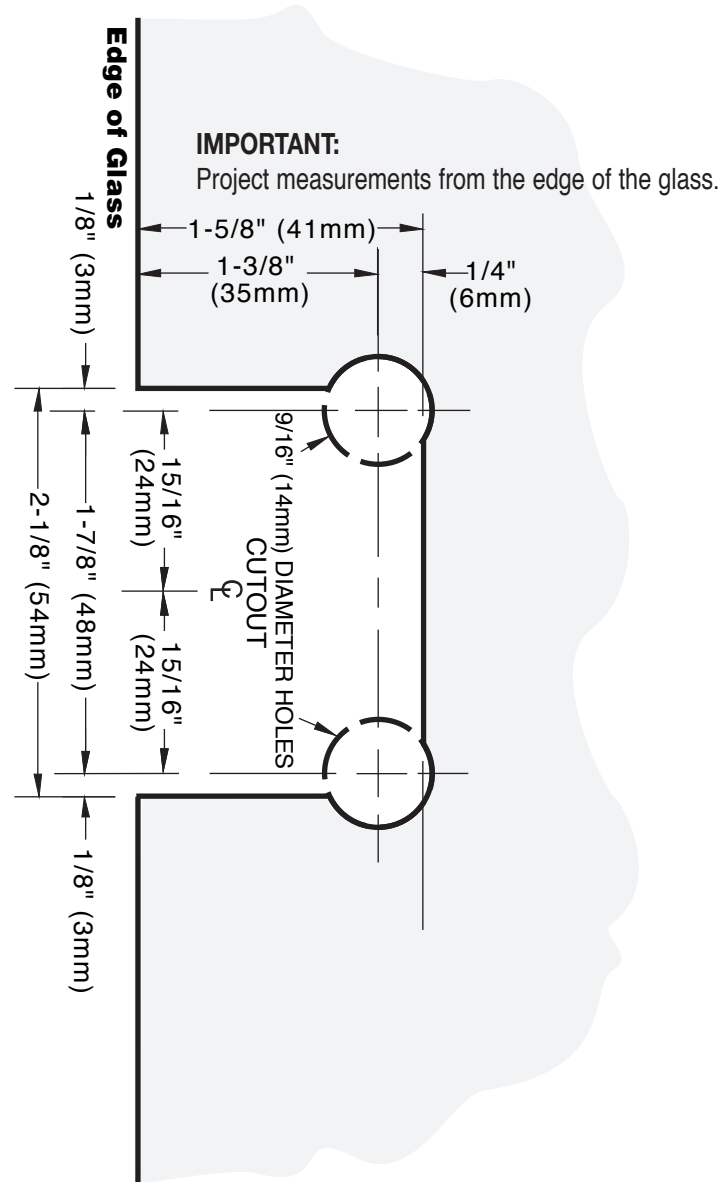
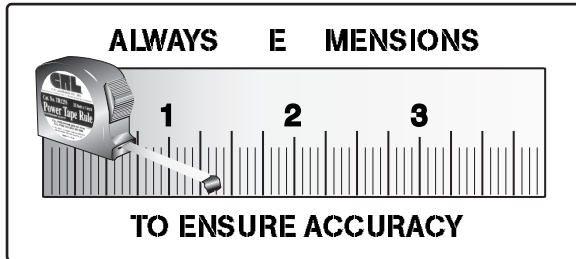
- Our hinges are greased at the factory for quiet and trouble-free operation. If there is any squeaking that occurs after installation, put a drop of "3 in 1 Oil" (also known as "household oil") on the white nylon washer that the hinge body pivots on. This washer is the component that acts as a buffer, so the body of the hinge doesn't pivot directly on the brass center block. This solution doesn't require the disassembly of the hinge.

Note: Do not use spray lubricant on these hinges. If the hinge has been disassembled, upon re-assembly, use white lithium grease to lubricate the interior mechanism.

- Never use an abrasive cleaner on the hardware. Many of the components are coated with a clear lacquer that will be irreparably damaged if subjected to harsh, abrasive chemicals. Advise your customer that drying the hardware with a clean, soft towel on a daily basis is the best way to maintain the hardware. If mineral deposits build-up, mix a couple of drops of a mild liquid soap (such as Ivory or a similar product) into a cup of warm water. Using a soft, non-abrasive cloth, clean the hardware. Rinse thoroughly with clean, warm water and dry.



C.R. LAURENCE CO., INC.
PROFESSIONAL QUALITY



JR. GENEVA

Wall Mount Hinge – Short Back Plate (5° Offset)

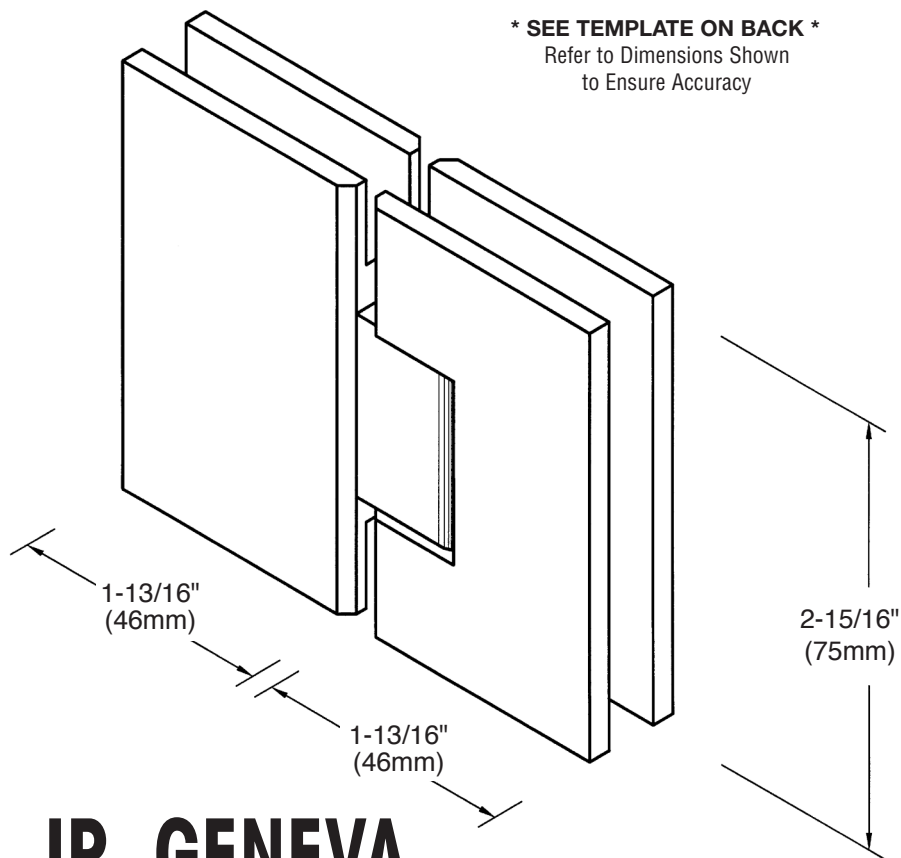
CAT. No. JRG574

C.R. Laurence Co., Inc.
 crlaurence.com

For technical assistance in the United States call toll free (800) 421-6144; from Canada call toll free (877) 421-6144; Outside the U.S. and Canada call (323) 588-1281. Ask for Tech Sales at Extension 7740. Toll free fax (800) 458-7496.



C.R. LAURENCE CO., INC.
PROFESSIONAL QUALITY



*** SEE TEMPLATE ON BACK ***
 Refer to Dimensions Shown
 to Ensure Accuracy

JR. GENEVA

180° Glass-to-Glass Hinge (5° Offset)

CAT. No. JRG580

*Maximum Door Capacities	1/4" (6mm) Glass		5/16" (8mm) Glass	
	Weight	Width	Weight	Width
Using 2 Hinges	62 lbs.(28 kg)	28"(711mm)	62 lbs.(28 kg)	28"(711mm)
Using 3 Hinges	92 lbs.(42 kg)	32"(813mm)	92 lbs.(42 kg)	32"(813mm)

***NOTE:** Do not exceed either maximum weight or width when choosing proper quantity of hinges.

Important Information:

- 1) This hinge contains a dual degree pivot pin. The pivot pin is set for the door to close 5 degrees inward from the normal closing position. You have the option of altering the closing position of the door 5 degrees (back to normal closing position) by utilizing the opposite side of the pivot pin, which has been pre-machined (see Section 3 of Cat. No. SDT21 Frameless Shower Door Guide for this procedure). Special order custom pivot pins are available (Cat.No. JRGENP1N) that can be machined at any angle up to 45 degrees.
- 2) The door and the fixed panel use the same cutout.

Specifications:

Glass Sizes: 1/4" (6mm) to 5/16" (8mm) thick tempered safety glass
Construction: Solid brass
Closing Type: Self-centering when within 15° of closed position
Cutout Required
Includes: Gaskets, screws and template

Use of Gaskets:

For 1/4"(6mm) Glass: Use one thick gasket on each side
For 5/16"(8mm) Glass: Use one thin gasket on each side

Recommendations:

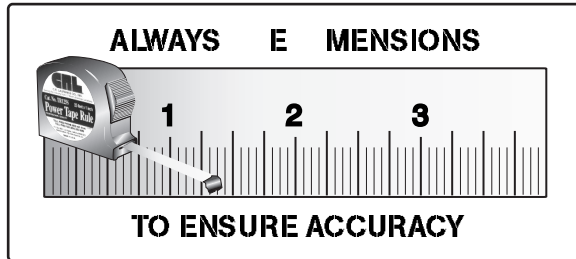
For public safety, we recommend the use of only tempered safety glass. Do not use power tools when installing these hinges.

Maintenance Guidelines:

- Our hinges are greased at the factory for quiet and trouble-free operation. If there is any squeaking that occurs after installation, put a drop of "3 in 1 Oil" (also known as "household oil") on the white nylon washer that the hinge body pivots on. This washer is the component that acts as a buffer, so the body of the hinge doesn't pivot directly on the brass center block. This solution doesn't require the disassembly of the hinge.
Note: Do not use spray lubricant on these hinges. If the hinge has been disassembled, upon re-assembly, use white lithium grease to lubricate the interior mechanism.
- Never use an abrasive cleaner on the hardware. Many of the components are coated with a clear lacquer that will be irreparably damaged if subjected to harsh, abrasive chemicals. Advise your customer that drying the hardware with a clean, soft towel on a daily basis is the best way to maintain the hardware. If mineral deposits build-up, mix a couple of drops of a mild liquid soap (such as Ivory or a similar product) into a cup of warm water. Using a soft, non-abrasive cloth, clean the hardware. Rinse thoroughly with clean, warm water and dry.



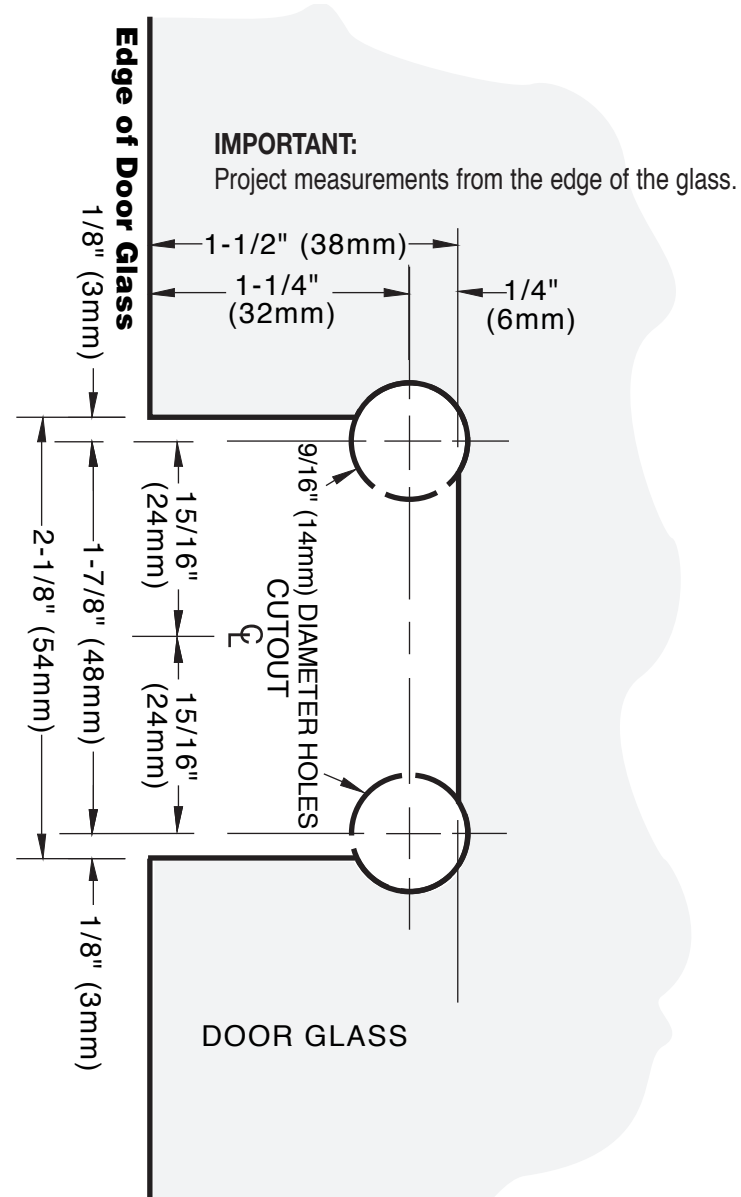
C.R. LAURENCE CO., INC.
PROFESSIONAL QUALITY



JR. GENEVA

180° Glass-to-Glass Hinge (5° Offset)

CAT. No. JRG580

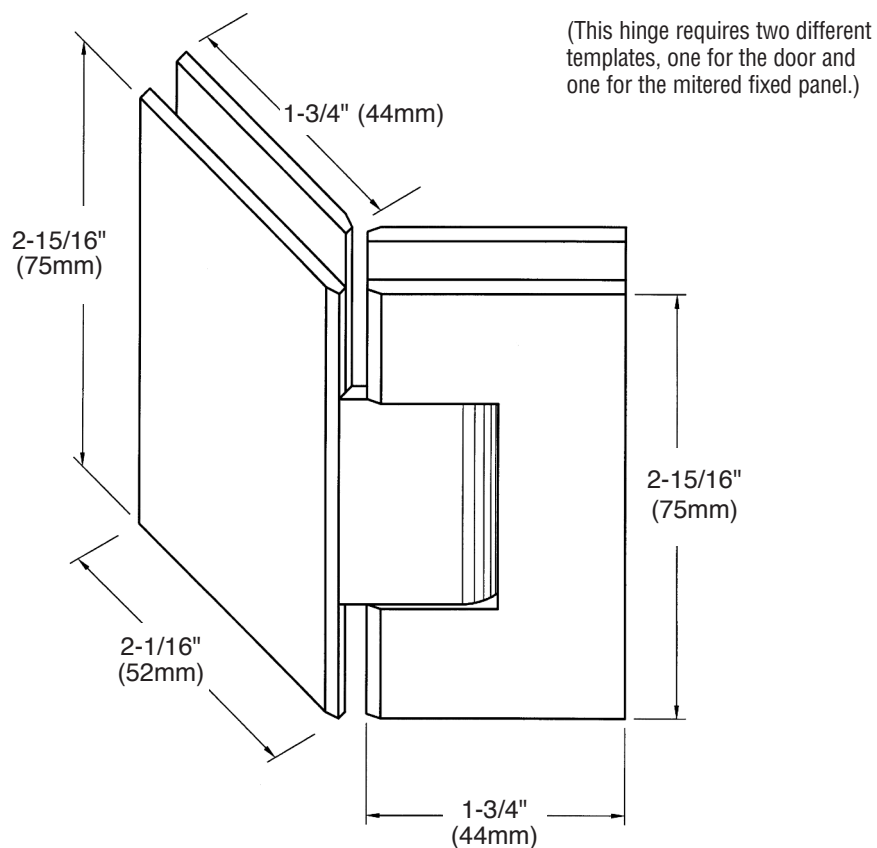


C.R. Laurence Co., Inc.
 crlaurence.com

For technical assistance in the United States call toll free (800) 421-6144; from Canada call toll free (877) 421-6144; Outside the U.S. and Canada call (323) 588-1281. Ask for Tech Sales at Extension 7740. Toll free fax (800) 458-7496.



C.R. LAURENCE CO., INC.
PROFESSIONAL QUALITY



*** SEE TEMPLATE ON BACK ***
Refer to Dimensions Shown
to Ensure Accuracy

JR. GENEVA

135° Glass-to-Glass Hinge (5° Offset)

CAT. No. JRG545

*Maximum Door Capacities	1/4" (6mm) Glass		5/16" (8mm) Glass	
	Weight	Width	Weight	Width
Using 2 Hinges	62 lbs.(28 kg)	28"(711mm)	62 lbs.(28 kg)	28"(711mm)
Using 3 Hinges	92 lbs.(42 kg)	32"(813mm)	92 lbs.(42 kg)	32"(813mm)

***NOTE:** Do not exceed either maximum weight or width when choosing proper quantity of hinges.

Important Information:

- 1) This hinge contains a dual degree pivot pin. The pivot pin is set for the door to close 5 degrees inward from the normal closing position. You have the option of altering the closing position of the door 5 degrees (back to normal closing position) by utilizing the opposite side of the pivot pin, which has been pre-machined (see Section 3 of Cat. No. SDT21 Frameless Shower Door Guide for this procedure). Special order custom pivot pins are available (Cat.No. JRGENP1N) that can be machined at any angle up to 45 degrees.
- 2) The fixed panel measurements must be taken from the inside of the miter.

Specifications:

- Glass Sizes:** 1/4" (6mm) to 5/16" (8mm) thick tempered safety glass
Construction: Solid brass
Closing Type: Self-centering when within 15° of closed position
Cutout Required
Includes: Gaskets, screws and template

Use of Gaskets:

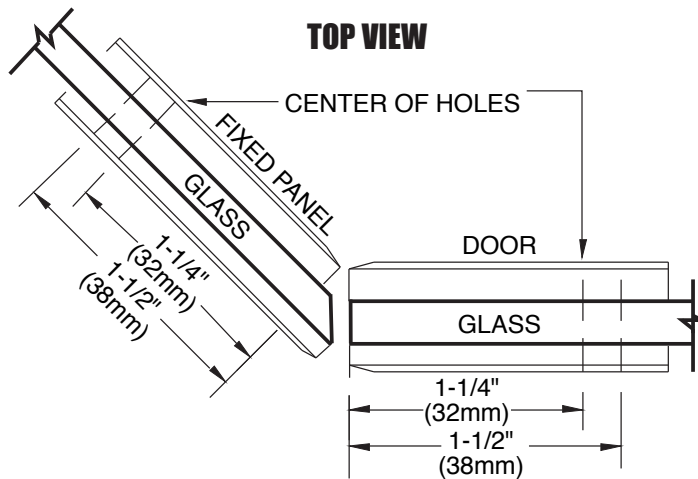
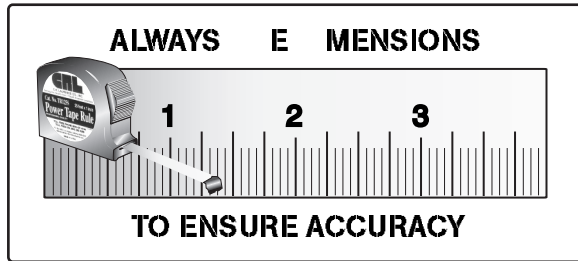
- For 1/4" (6mm) Glass:** Use one thick gasket on each side
For 5/16" (8mm) Glass: Use one thin gasket on each side

Recommendations:

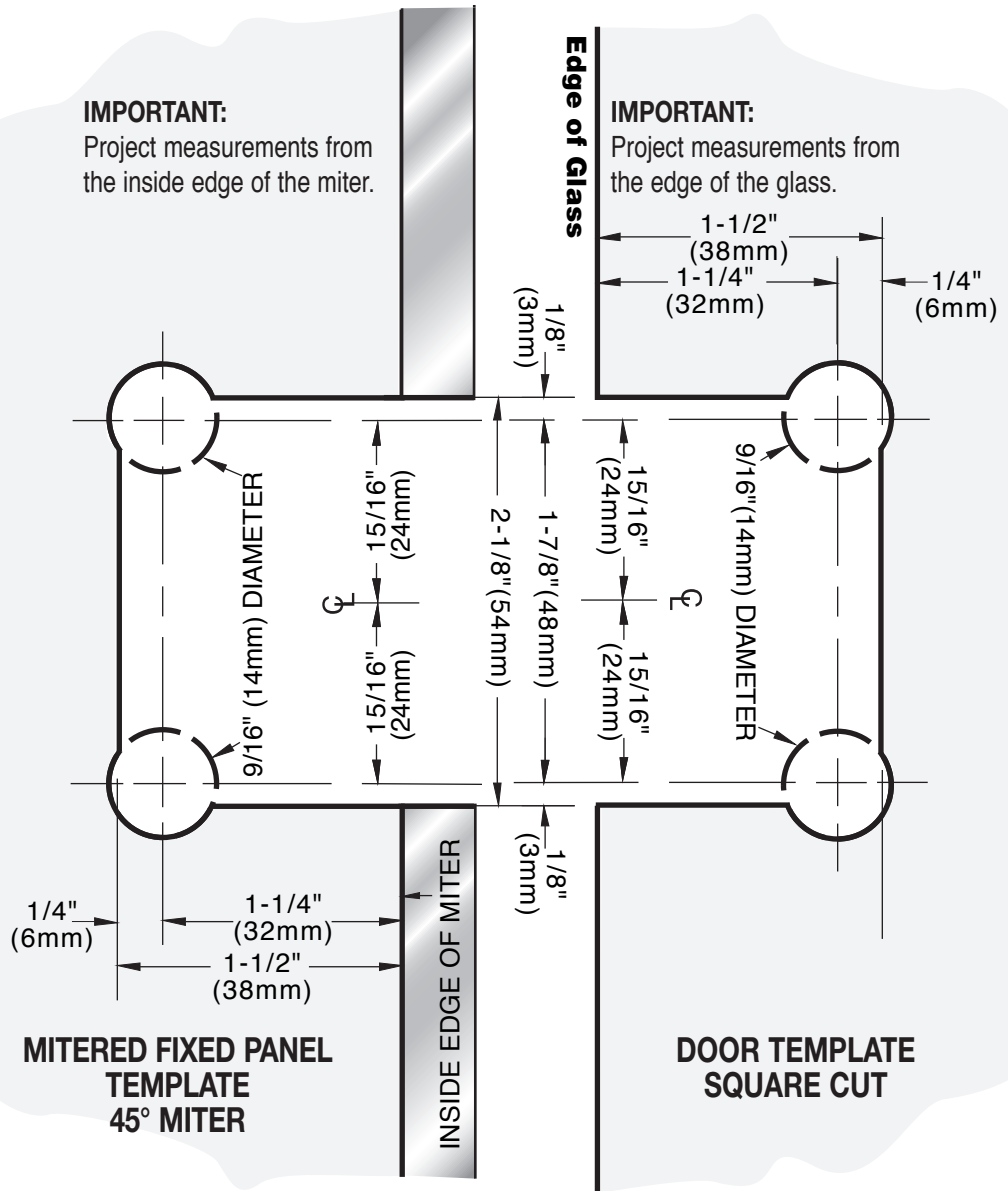
For public safety, we recommend the use of only tempered safety glass. Do not use power tools when installing these hinges.

Maintenance Guidelines:

- Our hinges are greased at the factory for quiet and trouble-free operation. If there is any squeaking that occurs after installation, put a drop of "3 in 1 Oil" (also known as "household oil") on the white nylon washer that the hinge body pivots on. This washer is the component that acts as a buffer, so the body of the hinge doesn't pivot directly on the brass center block. This solution doesn't require the disassembly of the hinge.
Note: Do not use spray lubricant on these hinges. If the hinge has been disassembled, upon re-assembly, use white lithium grease to lubricate the interior mechanism.
- Never use an abrasive cleaner on the hardware. Many of the components are coated with a clear lacquer that will be irreparably damaged if subjected to harsh, abrasive chemicals. Advise your customer that drying the hardware with a clean, soft towel on a daily basis is the best way to maintain the hardware. If mineral deposits build-up, mix a couple of drops of a mild liquid soap (such as Ivory or a similar product) into a cup of warm water. Using a soft, non-abrasive cloth, clean the hardware. Rinse thoroughly with clean, warm water and dry.



IMPORTANT:
 Project measurements from the inside edge of the miter.



JR. GENEVA

135° Glass-to-Glass Hinge (5° Offset)

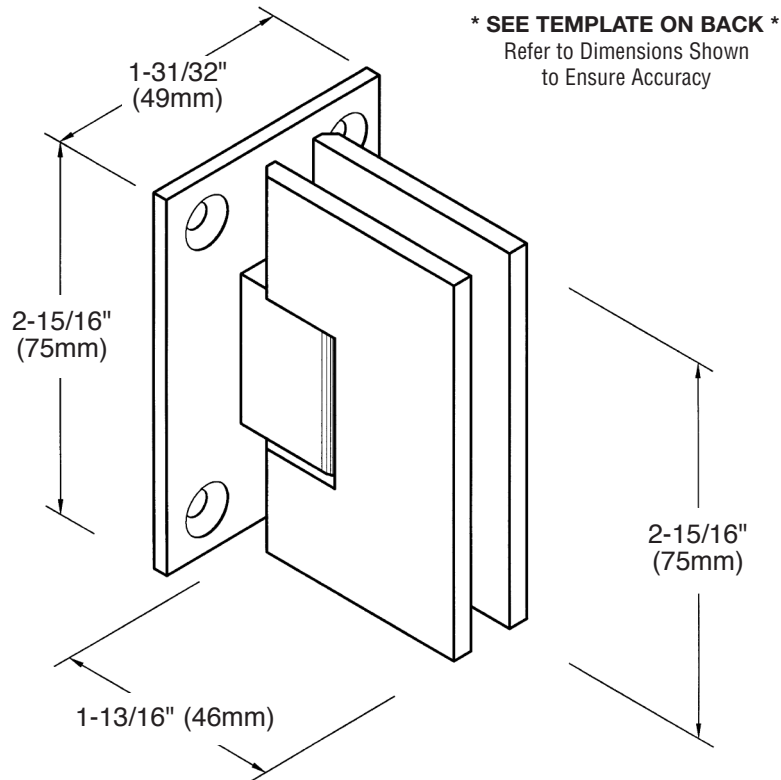
CAT. No. JRG545

C.R. Laurence Co., Inc.
 crlaurence.com

For technical assistance in the United States call toll free (800) 421-6144; from Canada call toll free (877) 421-6144; Outside the U.S. and Canada call (323) 588-1281. Ask for Tech Sales at Extension 7740. Toll free fax (800) 458-7496.



C.R. LAURENCE CO., INC.
PROFESSIONAL QUALITY



JR. GENEVA

Wall Mount Hinge – Standard Back Plate

CAT. No. JRG037

*Maximum Door Capacities	1/4" (6mm) Glass		5/16" (8mm) Glass	
	Weight	Width	Weight	Width
Using 2 Hinges	62 lbs.(28 kg)	28"(711mm)	62 lbs.(28 kg)	28"(711mm)
Using 3 Hinges	92 lbs.(42 kg)	32"(813mm)	92 lbs.(42 kg)	32"(813mm)

*NOTE: Do not exceed either maximum weight or width when choosing proper quantity of hinges.

Important Information:

The Jr. Geneva Series of Hinges are equipped with a dual degree pivot pin. The pivot pin is set by the manufacturer for normal door closing position. You have the option of altering the closing position of the door 5 degrees by utilizing the opposite side of the pivot pin, which has been pre-machined (see Section 3 for this procedure).

Specifications:

Glass Sizes: 1/4" (6mm) to 5/16" (8mm) thick tempered safety glass

Construction: Solid brass

Closing Type: Self-centering when within 15° of closed position

Cutout Required

Includes: Gaskets, screws and template

Use of Gaskets:

For 1/4"(6mm) Glass: Use one thick gasket on each side

For 5/16"(8mm) Glass: Use one thin gasket on each side

Recommendations:

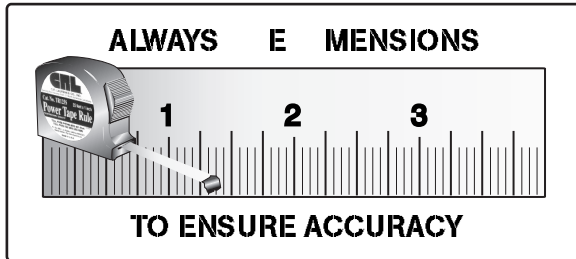
For public safety, we recommend the use of only tempered safety glass. Do not use power tools when installing these hinges.

Maintenance Guidelines:

- Our hinges are greased at the factory for quiet and trouble-free operation. If there is any squeaking that occurs after installation, put a drop of "3 in 1 Oil" (also known as "household oil") on the white nylon washer that the hinge body pivots on. This washer is the component that acts as a buffer, so the body of the hinge doesn't pivot directly on the brass center block. This solution doesn't require the disassembly of the hinge. **Note: Do not use spray lubricant on these hinges.** If the hinge has been disassembled, upon re-assembly, use white lithium grease to lubricate the interior mechanism.
- Never use an abrasive cleaner on the hardware. Many of the components are coated with a clear lacquer that will be irreparably damaged if subjected to harsh, abrasive chemicals. Advise your customer that drying the hardware with a clean, soft towel on a daily basis is the best way to maintain the hardware. If mineral deposits build-up, mix a couple of drops of a mild liquid soap (such as Ivory or a similar product) into a cup of warm water. Using a soft, non-abrasive cloth, clean the hardware. Rinse thoroughly with clean, warm water and dry.



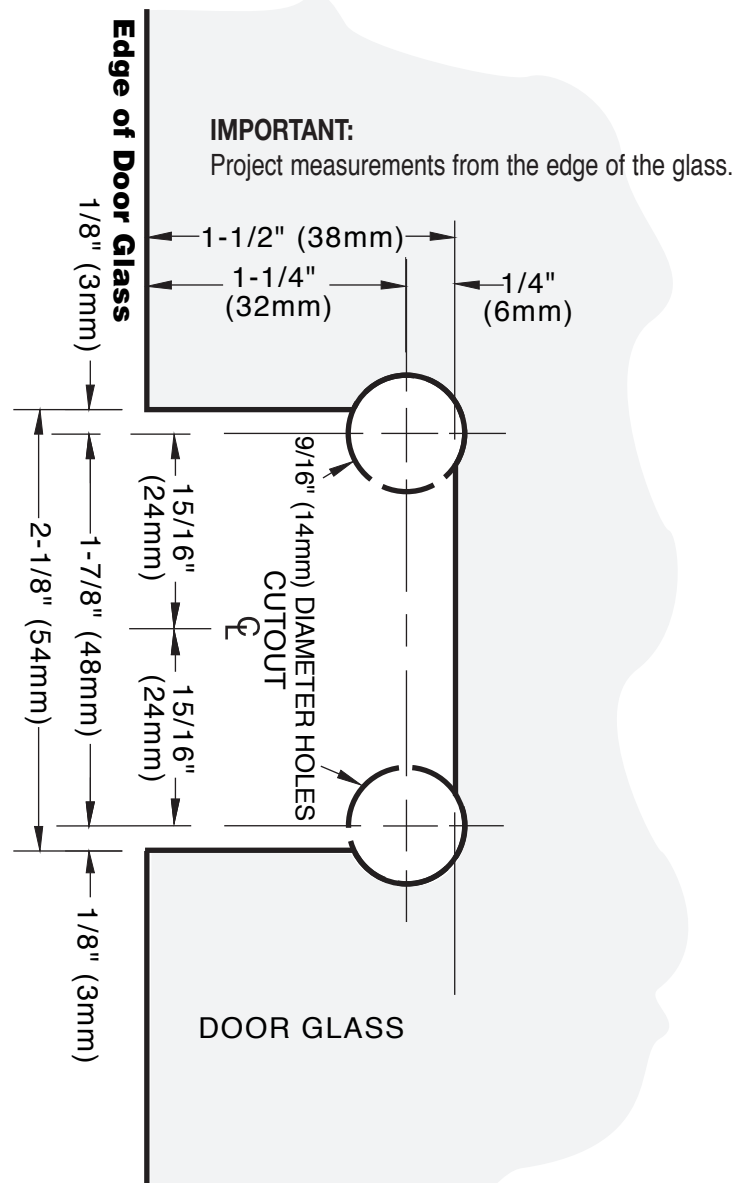
C.R. LAURENCE CO., INC.
PROFESSIONAL QUALITY



JR. GENEVA

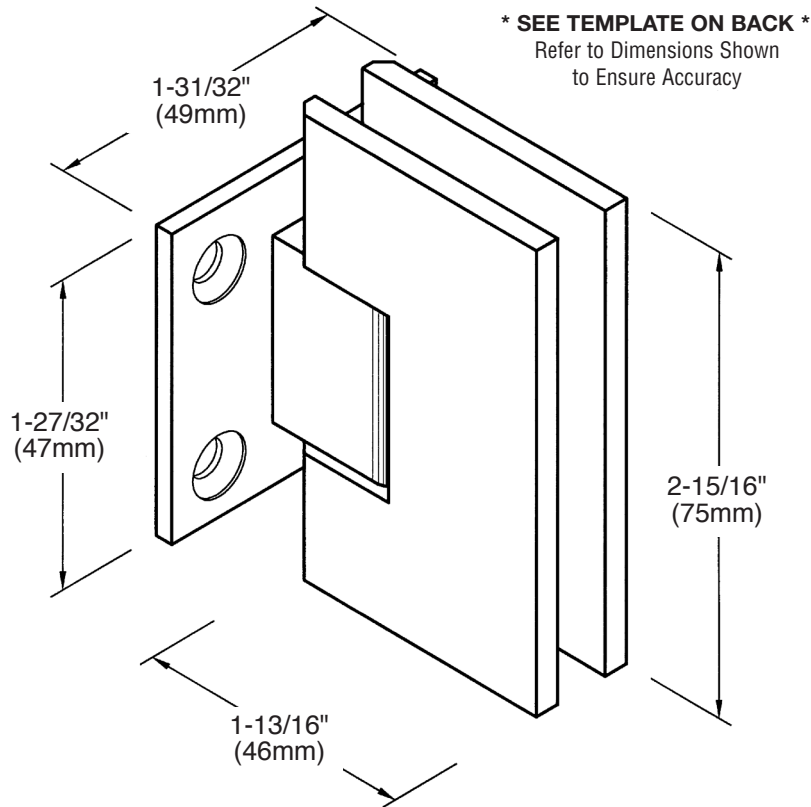
Wall Mount Hinge – Standard Back Plate

CAT. No. JRG037





C.R. LAURENCE CO., INC.
PROFESSIONAL QUALITY



JR. GENEVA

Wall Mount Hinge – Short Back Plate

CAT. No. JRG074

*Maximum Door Capacities	1/4" (6mm) Glass		5/16" (8mm) Glass	
	Weight	Width	Weight	Width
Using 2 Hinges	62 lbs.(28 kg)	28"(711mm)	62 lbs.(28 kg)	28"(711mm)
Using 3 Hinges	92 lbs.(42 kg)	32"(813mm)	92 lbs.(42 kg)	32"(813mm)

*NOTE: Do not exceed either maximum weight or width when choosing proper quantity of hinges.

Important Information:

- 1) The Jr. Geneva Series of Hinges are equipped with a dual degree pivot pin. The pivot pin is set by the manufacturer for normal door closing position. You have the option of altering the closing position of the door 5 degrees by utilizing the opposite side of the pivot pin, which has been pre-machined (see Section 3 for this procedure).
- 2) The clearance gap required at the hinge side is 1/32" to 5/32". For a clearance gap of 1/8" to 1/4", see template for Cat. No. JRG037.

Specifications:

Glass Sizes: 1/4" (6mm) to 5/16" (8mm) thick tempered safety glass
Construction: Solid brass
Closing Type: Self-centering when within 15° of closed position
Cutout Required
Includes: Gaskets, screws and template

Use of Gaskets:

For 1/4"(6mm) Glass: Use one thick gasket on each side
For 5/16"(8mm) Glass: Use one thin gasket on each side

Recommendations:

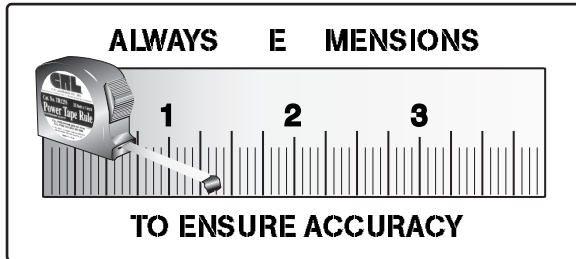
For public safety, we recommend the use of only tempered safety glass. Do not use power tools when installing these hinges.

Maintenance Guidelines:

- Our hinges are greased at the factory for quiet and trouble-free operation. If there is any squeaking that occurs after installation, put a drop of "3 in 1 Oil" (also known as "household oil") on the white nylon washer that the hinge body pivots on. This washer is the component that acts as a buffer, so the body of the hinge doesn't pivot directly on the brass center block. This solution doesn't require the disassembly of the hinge.
Note: Do not use spray lubricant on these hinges. If the hinge has been disassembled, upon re-assembly, use white lithium grease to lubricate the interior mechanism.
- Never use an abrasive cleaner on the hardware. Many of the components are coated with a clear lacquer that will be irreparably damaged if subjected to harsh, abrasive chemicals. Advise your customer that drying the hardware with a clean, soft towel on a daily basis is the best way to maintain the hardware. If mineral deposits build-up, mix a couple of drops of a mild liquid soap (such as Ivory or a similar product) into a cup of warm water. Using a soft, non-abrasive cloth, clean the hardware. Rinse thoroughly with clean, warm water and dry.



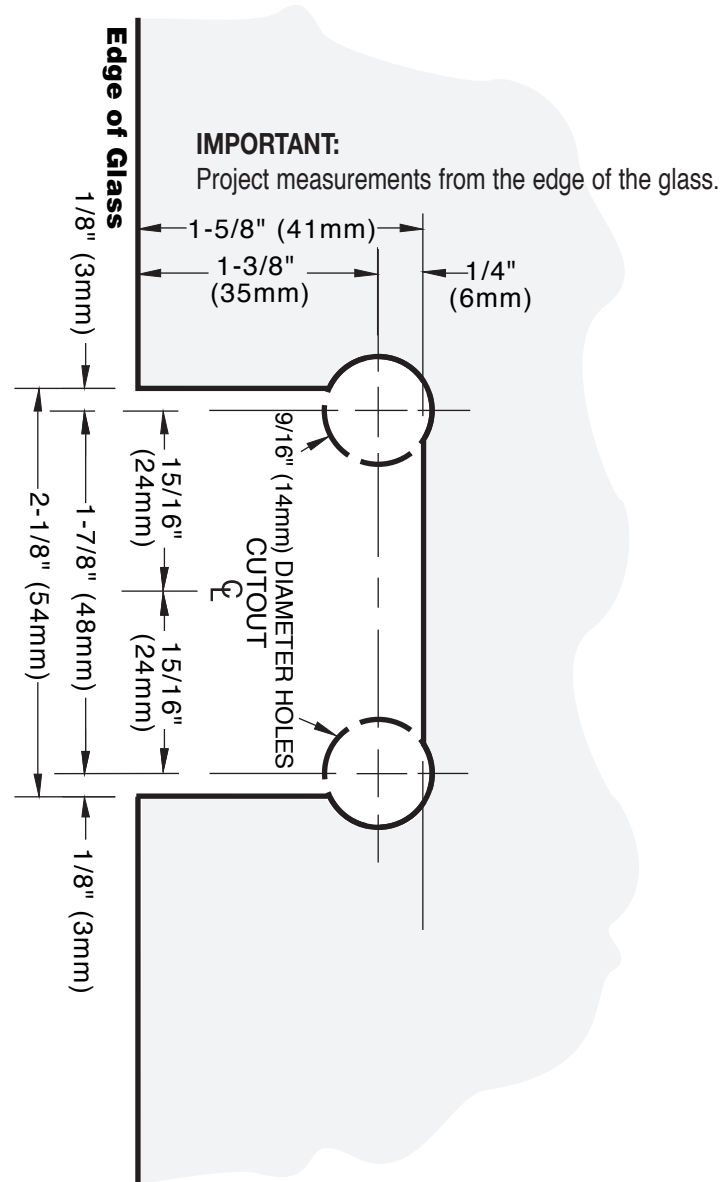
C.R. LAURENCE CO., INC.
PROFESSIONAL QUALITY



JR. GENEVA

Wall Mount Hinge – Short Back Plate

CAT. No. JRG074

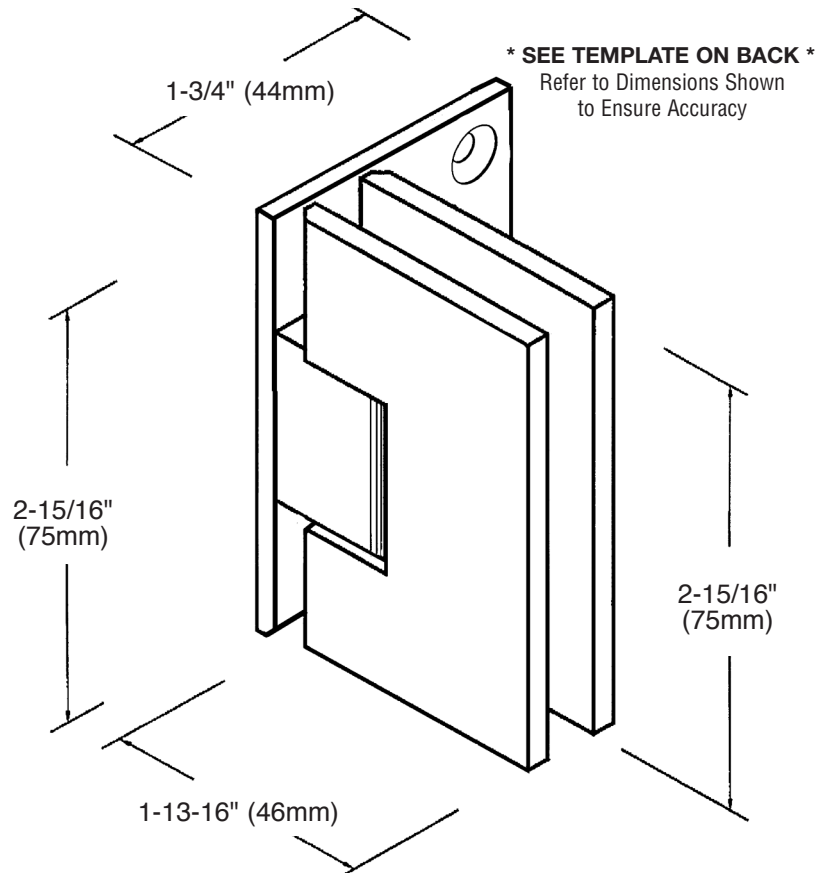


C.R. Laurence Co., Inc.
 crlaurence.com

For technical assistance in the United States call toll free (800) 421-6144; from Canada call toll free (877) 421-6144; Outside the U.S. and Canada call (323) 588-1281. Ask for Tech Sales at Extension 7740. Toll free fax (800) 458-7496.



C.R. LAURENCE CO., INC.
PROFESSIONAL QUALITY



JR. GENEVA

Wall Mount Hinge – Offset Back Plate

CAT. No. JRG044

*Maximum Door Capacities	1/4" (6mm) Glass		5/16" (8mm) Glass	
	Weight	Width	Weight	Width
Using 2 Hinges	62 lbs.(28 kg)	28"(711mm)	62 lbs.(28 kg)	28"(711mm)
Using 3 Hinges	92 lbs.(42 kg)	32"(813mm)	92 lbs.(42 kg)	32"(813mm)

***NOTE:** Do not exceed either maximum weight or width when choosing proper quantity of hinges.

Important Information:

The Jr. Geneva Series of Hinges are equipped with a dual degree pivot pin. The pivot pin is set by the manufacturer for normal door closing position. You have the option of altering the closing position of the door 5 degrees by utilizing the opposite side of the pivot pin, which has been pre-machined (see Section 3 for this procedure).

Specifications:

Glass Sizes: 1/4" (6mm) to 5/16" (8mm) thick tempered safety glass

Construction: Solid brass

Closing Type: Self-centering when within 15° of closed position

Cutout Required

Includes: Gaskets, screws and template

Use of Gaskets:

For 1/4"(6mm) Glass: Use one thick gasket on each side

For 5/16"(8mm) Glass: Use one thin gasket on each side

Recommendations:

For public safety, we recommend the use of only tempered safety glass. Do not use power tools when installing these hinges.

Maintenance Guidelines:

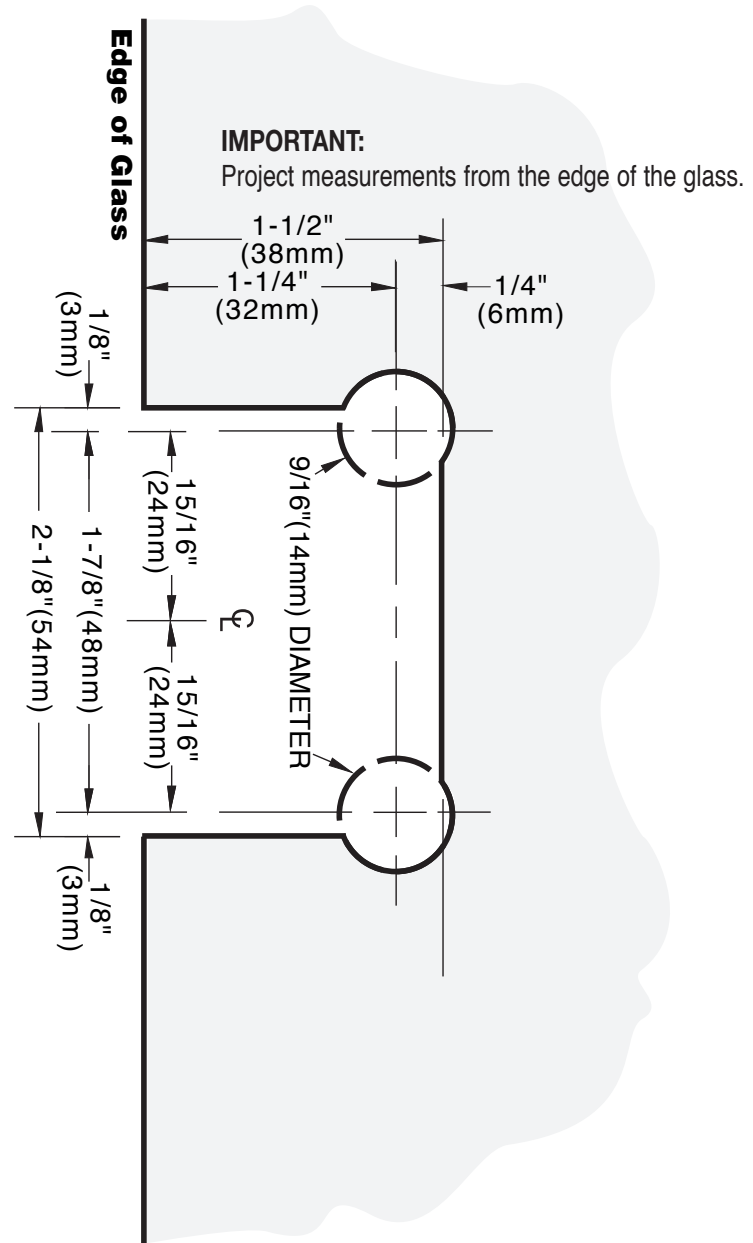
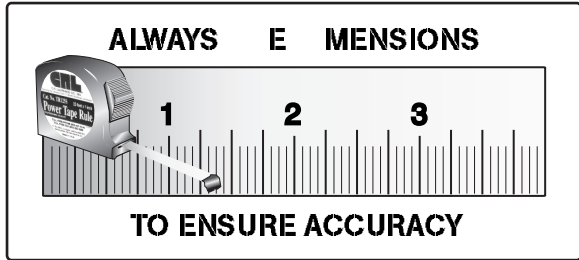
- Our hinges are greased at the factory for quiet and trouble-free operation. If there is any squeaking that occurs after installation, put a drop of "3 in 1 Oil" (also known as "household oil") on the white nylon washer that the hinge body pivots on. This washer is the component that acts as a buffer, so the body of the hinge doesn't pivot directly on the brass center block. This solution doesn't require the disassembly of the hinge.

Note: Do not use spray lubricant on these hinges. If the hinge has been disassembled, upon re-assembly, use white lithium grease to lubricate the interior mechanism.

- Never use an abrasive cleaner on the hardware. Many of the components are coated with a clear lacquer that will be irreparably damaged if subjected to harsh, abrasive chemicals. Advise your customer that drying the hardware with a clean, soft towel on a daily basis is the best way to maintain the hardware. If mineral deposits build-up, mix a couple of drops of a mild liquid soap (such as Ivory or a similar product) into a cup of warm water. Using a soft, non-abrasive cloth, clean the hardware. Rinse thoroughly with clean, warm water and dry.



C.R. LAURENCE CO., INC.
PROFESSIONAL QUALITY



JR. GENEVA

Wall Mount Hinge – Offset Back Plate

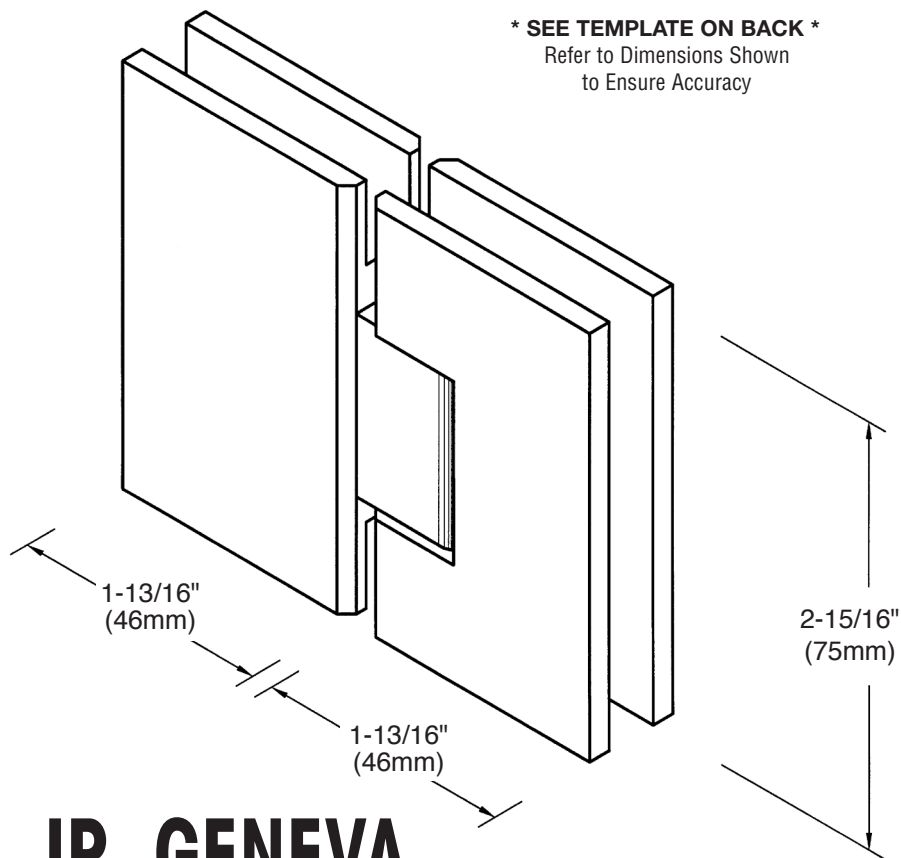
CAT. No. JRG044

C.R. Laurence Co., Inc.
 crlaurence.com

For technical assistance in the United States call toll free (800) 421-6144; from Canada call toll free (877) 421-6144; Outside the U.S. and Canada call (323) 588-1281. Ask for Tech Sales at Extension 7740. Toll free fax (800) 458-7496.



C.R. LAURENCE CO., INC.
PROFESSIONAL QUALITY



JR. GENEVA

180° Glass-to-Glass Hinge

CAT. No. JRG180

*Maximum Door Capacities	1/4" (6mm) Glass		5/16" (8mm) Glass	
	Weight	Width	Weight	Width
Using 2 Hinges	62 lbs.(28 kg)	28"(711mm)	62 lbs.(28 kg)	28"(711mm)
Using 3 Hinges	92 lbs.(42 kg)	32"(813mm)	92 lbs.(42 kg)	32"(813mm)

*NOTE: Do not exceed either maximum weight or width when choosing proper quantity of hinges.

Important Information:

- 1) The Jr. Geneva Series of Hinges are equipped with a dual degree pivot pin. The pivot pin is set by the manufacturer for normal door closing position. You have the option of altering the closing position of the door 5 degrees by utilizing the opposite side of the pivot pin, which has been pre-machined (see Section 3 for this procedure).
- 2) The door and the fixed panel use the same cutout.

Specifications:

Glass Sizes: 1/4" (6mm) to 5/16" (8mm) thick tempered safety glass
Construction: Solid brass
Closing Type: Self-centering when within 15° of closed position
Cutout Required
Includes: Gaskets, screws and template

Use of Gaskets:

For 1/4"(6mm) Glass: Use one thick gasket on each side
For 5/16"(8mm) Glass: Use one thin gasket on each side

Recommendations:

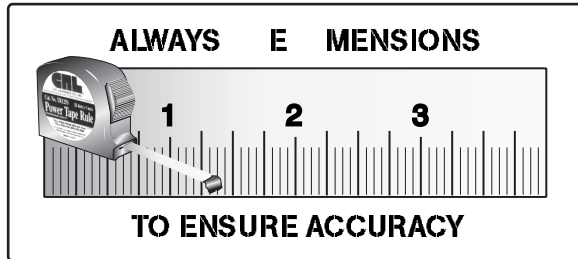
For public safety, we recommend the use of only tempered safety glass. Do not use power tools when installing these hinges.

Maintenance Guidelines:

- Our hinges are greased at the factory for quiet and trouble-free operation. If there is any squeaking that occurs after installation, put a drop of "3 in 1 Oil" (also known as "household oil") on the white nylon washer that the hinge body pivots on. This washer is the component that acts as a buffer, so the body of the hinge doesn't pivot directly on the brass center block. This solution doesn't require the disassembly of the hinge.
Note: Do not use spray lubricant on these hinges. If the hinge has been disassembled, upon re-assembly, use white lithium grease to lubricate the interior mechanism.
- Never use an abrasive cleaner on the hardware. Many of the components are coated with a clear lacquer that will be irreparably damaged if subjected to harsh, abrasive chemicals. Advise your customer that drying the hardware with a clean, soft towel on a daily basis is the best way to maintain the hardware. If mineral deposits build-up, mix a couple of drops of a mild liquid soap (such as Ivory or a similar product) into a cup of warm water. Using a soft, non-abrasive cloth, clean the hardware. Rinse thoroughly with clean, warm water and dry.

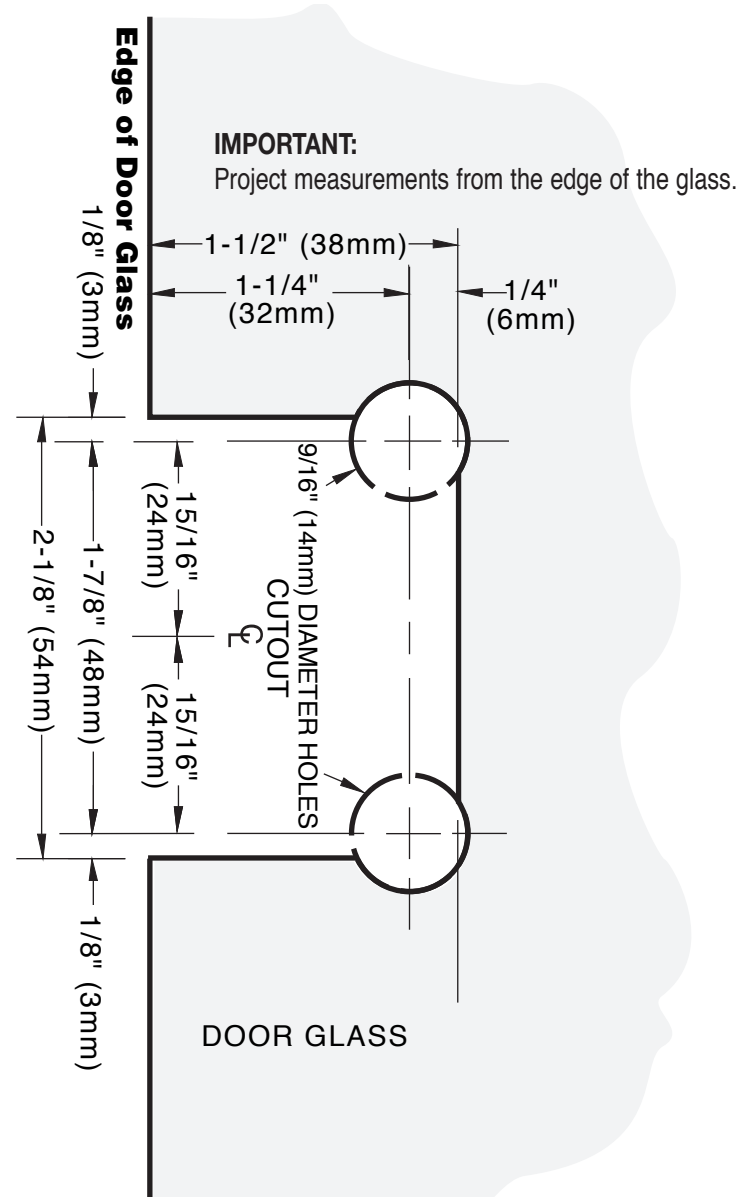


C.R. LAURENCE CO., INC.
PROFESSIONAL QUALITY



JR. GENEVA

180° Glass-to-Glass Hinge
 CAT. No. JRG180

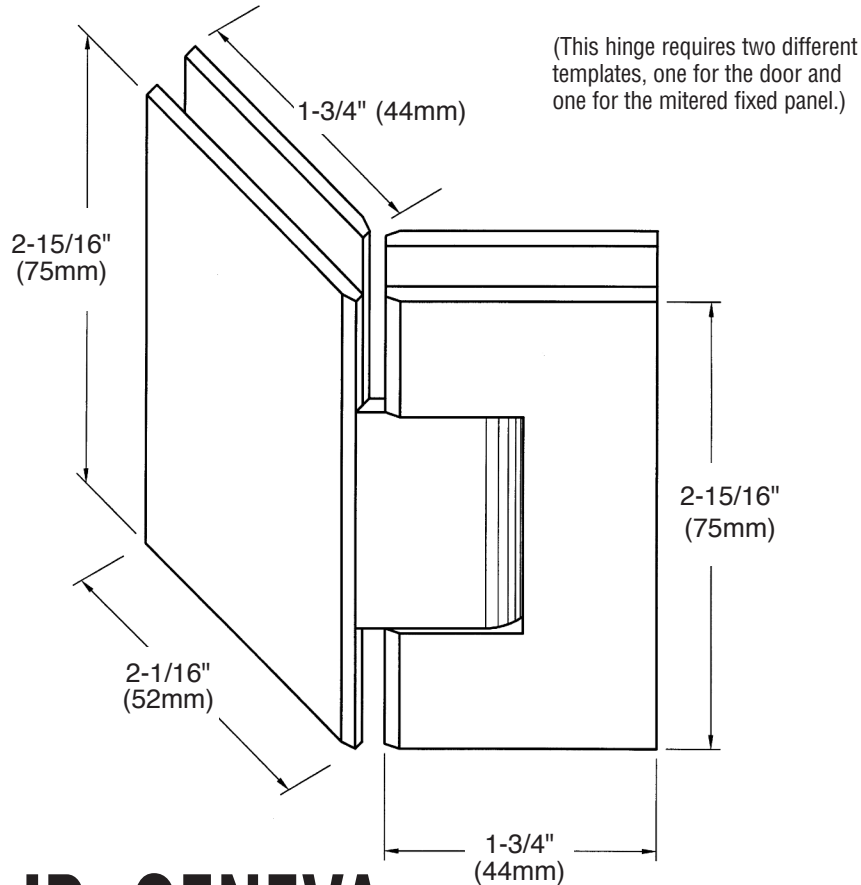


C.R. Laurence Co., Inc.
 crlaurence.com

For technical assistance in the United States call toll free (800) 421-6144; from Canada call toll free (877) 421-6144; Outside the U.S. and Canada call (323) 588-1281. Ask for Tech Sales at Extension 7740. Toll free fax (800) 458-7496.



C.R. LAURENCE CO., INC.
PROFESSIONAL QUALITY



JR. GENEVA

135° Glass-to-Glass Hinge

Cat. No. JRG045

*** SEE TEMPLATE ON BACK ***
Refer to Dimensions Shown
to Ensure Accuracy

*Maximum Door Capacities	1/4" (6mm) Glass		5/16" (8mm) Glass	
	Weight	Width	Weight	Width
Using 2 Hinges	62 lbs.(28 kg)	28"(711mm)	62 lbs.(28 kg)	28"(711mm)
Using 3 Hinges	92 lbs.(42 kg)	32"(813mm)	92 lbs.(42 kg)	32"(813mm)

***NOTE:** Do not exceed either maximum weight or width when choosing proper quantity of hinges.

Important Information:

- 1) The Jr. Geneva Series of Hinges are equipped with a dual degree pivot pin. The pivot pin is set by the manufacturer for normal door closing position. You have the option of altering the closing position of the door 5 degrees by utilizing the opposite side of the pivot pin, which has been pre-machined (see Section 3 for this procedure).
- 2) The fixed panel measurements must be taken from the inside of the miter.

Specifications:

Glass Sizes: 1/4" (6mm) to 5/16" (8mm) thick tempered safety glass

Construction: Solid brass

Closing Type: Self-centering when within 15° of closed position

Cutout Required

Includes: Gaskets, screws and template

Use of Gaskets:

For 1/4" (6mm) Glass: Use one thick gasket on each side

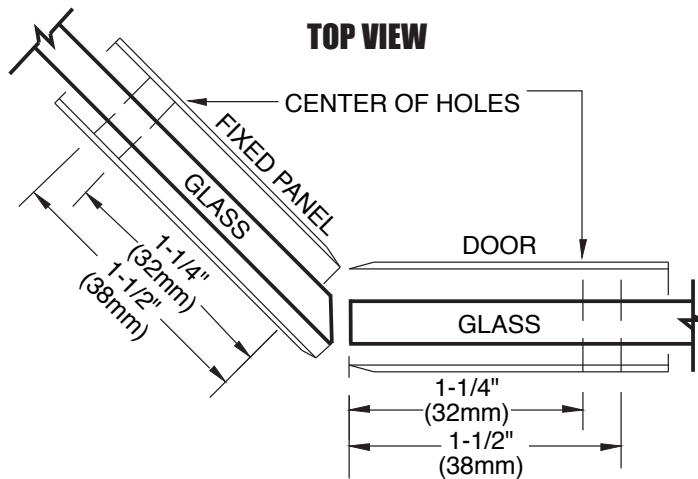
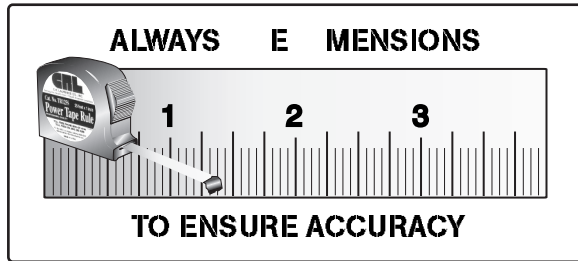
For 5/16" (8mm) Glass: Use one thin gasket on each side

Recommendations:

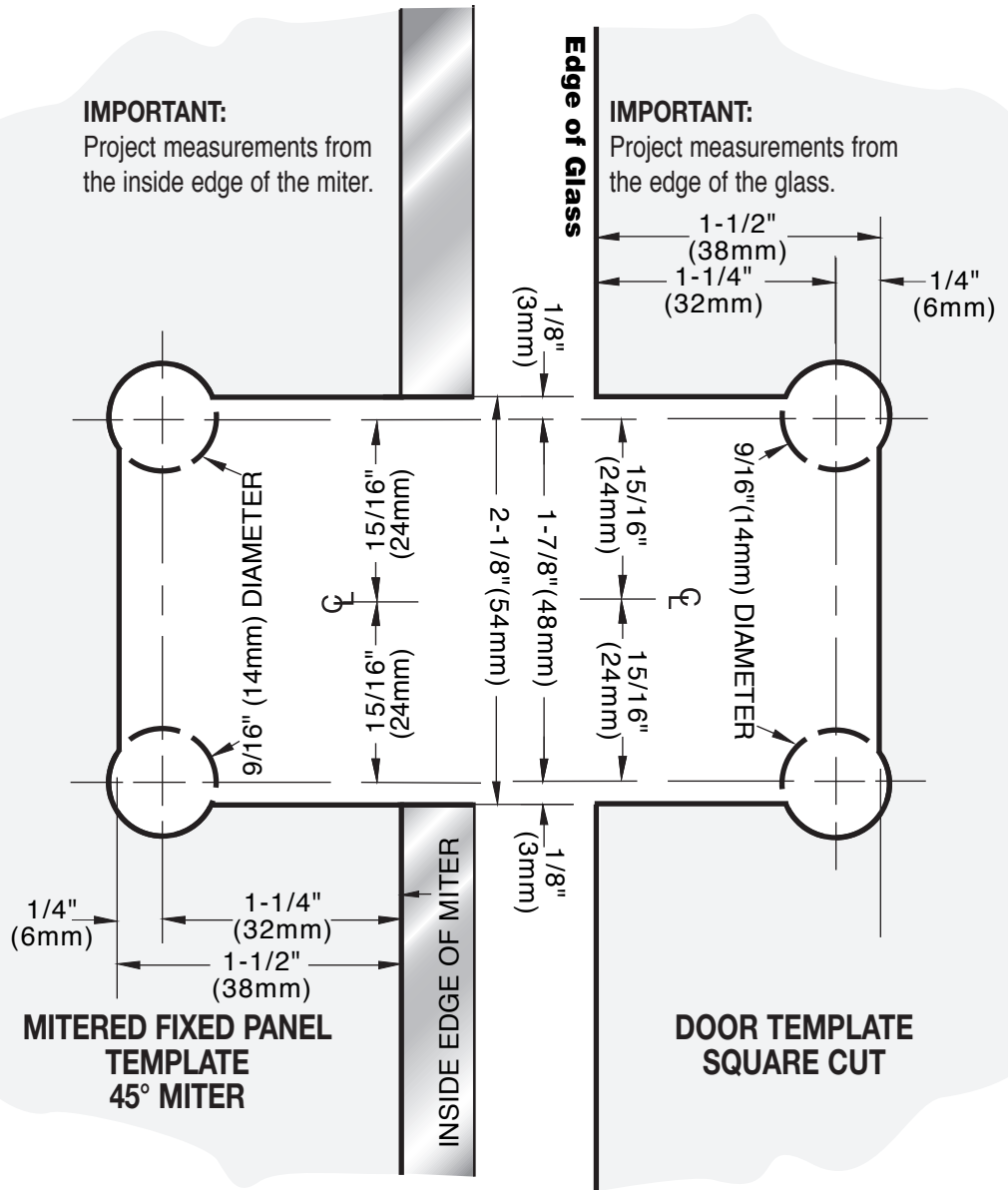
For public safety, we recommend the use of only tempered safety glass.
Do not use power tools when installing these hinges.

Maintenance Guidelines:

- Our hinges are greased at the factory for quiet and trouble-free operation. If there is any squeaking that occurs after installation, put a drop of "3 in 1 Oil" (also known as "household oil") on the white nylon washer that the hinge body pivots on. This washer is the component that acts as a buffer, so the body of the hinge doesn't pivot directly on the brass center block. This solution doesn't require the disassembly of the hinge.
Note: Do not use spray lubricant on these hinges. If the hinge has been disassembled, upon re-assembly, use white lithium grease to lubricate the interior mechanism.
- Never use an abrasive cleaner on the hardware. Many of the components are coated with a clear lacquer that will be irreparably damaged if subjected to harsh, abrasive chemicals. Advise your customer that drying the hardware with a clean, soft towel on a daily basis is the best way to maintain the hardware. If mineral deposits build-up, mix a couple of drops of a mild liquid soap (such as Ivory or a similar product) into a cup of warm water. Using a soft, non-abrasive cloth, clean the hardware. Rinse thoroughly with clean, warm water and dry.

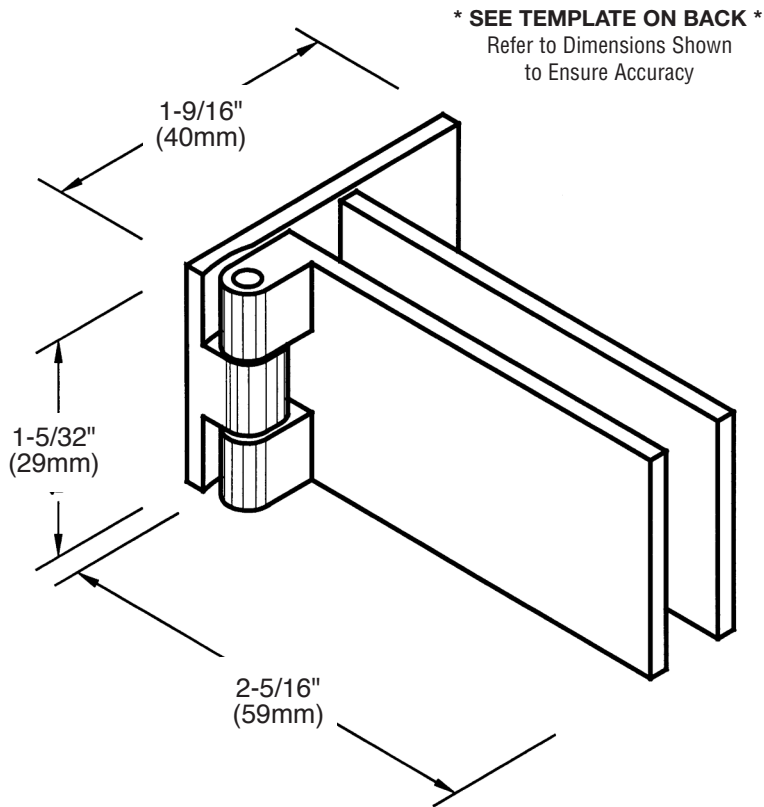


JR. GENEVA
135° Glass-to-Glass Hinge
Cat. No. JRG045





C.R. LAURENCE CO., INC.
PROFESSIONAL QUALITY



Specifications:

Glass Sizes: 1/4" (6mm) to 5/16" (8mm) thick tempered safety glass

Construction: Solid brass

Closing Type: Free swinging

9/16" Diameter Hole Required (No Cutout)

Includes: Gaskets

Use of Gaskets:

For 1/4"(6mm) Glass: Use one gasket on each side

For 5/16"(8mm) Glass: Use one gasket on each side

Recommendations:

For public safety, we recommend the use of only tempered safety glass.

Do not use power tools when installing these hinges.

LIGHT DUTY

Square Corner Style

CAT. No. EH84 and EH85

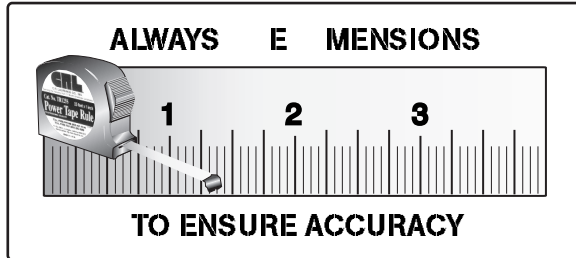
*Maximum Door Capacities	1/4" (6mm) Glass		5/16" (8mm) Glass	
	Weight	Width	Weight	Width
Using 2 Hinges	50 lbs.(23 kg)	24"(610mm)	50 lbs.(23 kg)	24"(610mm)
Using 3 Hinges	75 lbs.(34 kg)	24"(610 mm)	75 lbs.(34 kg)	24"(610 mm)

*NOTE: Do not exceed either maximum weight or width when choosing proper quantity of hinges.

4V-1



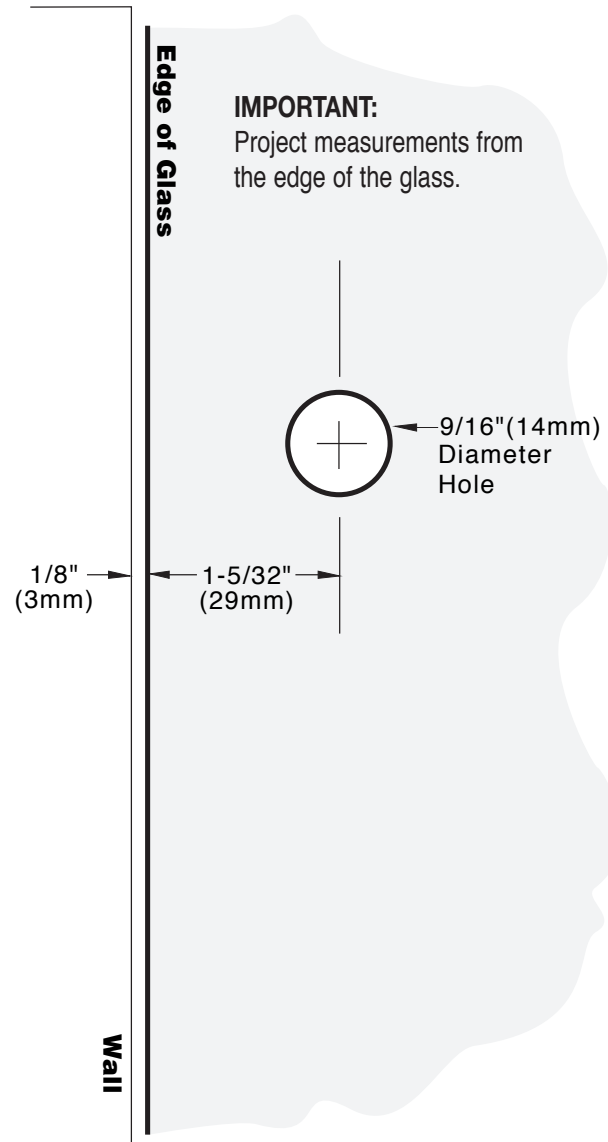
C.R. LAURENCE CO., INC.
PROFESSIONAL QUALITY



LIGHT DUTY

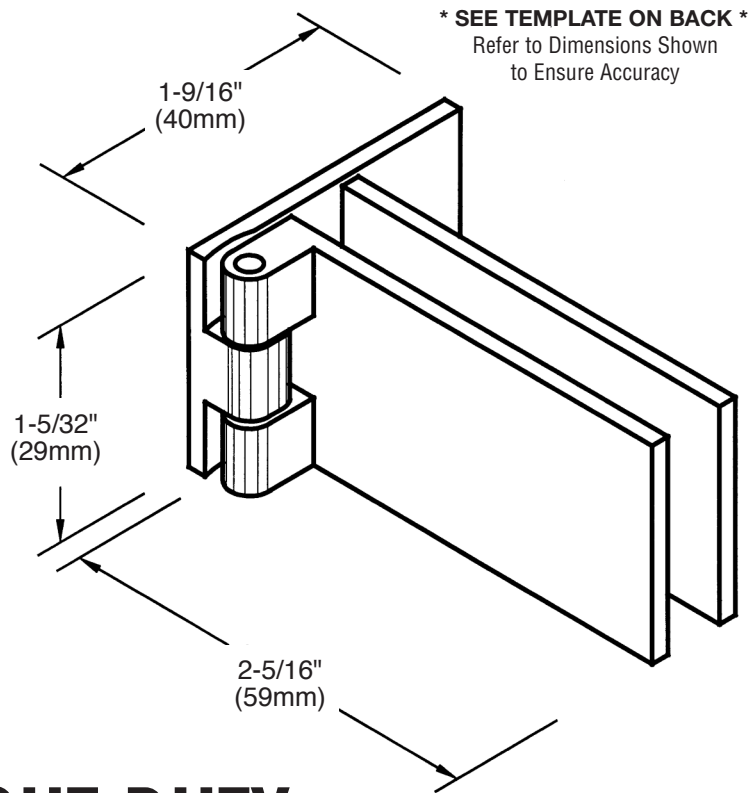
Square Corner Style

CAT. No. EH84 and EH85





C.R. LAURENCE CO., INC.
PROFESSIONAL QUALITY



Specifications:

Glass Sizes: 1/4" (6mm) to 5/16" (8mm) thick tempered safety glass

Construction: Solid brass

Closing Type: Free swinging

9/16" Diameter Hole Required (No Cutout)

Includes: Gaskets

Use of Gaskets:

For 1/4"(6mm) Glass: Use one gasket on each side

For 5/16"(8mm) Glass: Use one gasket on each side

Recommendations:

For public safety, we recommend the use of only tempered safety glass.

Do not use power tools when installing these hinges.

LIGHT DUTY

Square Corner Style

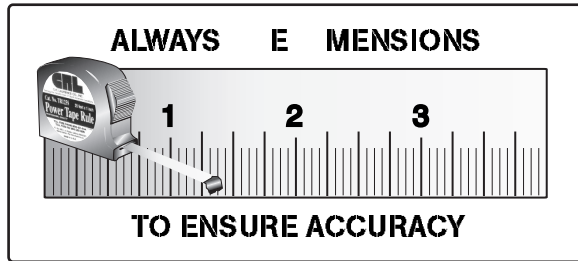
CAT. No. EH86

* Maximum Door Capacities	1/4" (6mm) Glass		5/16" (8mm) Glass	
	Weight	Width	Weight	Width
Using 2 Hinges	50 lbs.(23 kg)	24"(610mm)	50 lbs.(23 kg)	24"(610mm)
Using 3 Hinges	75 lbs.(34 kg)	24"(610 mm)	75 lbs.(34 kg)	24"(610 mm)

*NOTE: Do not exceed either maximum weight or width when choosing proper quantity of hinges.

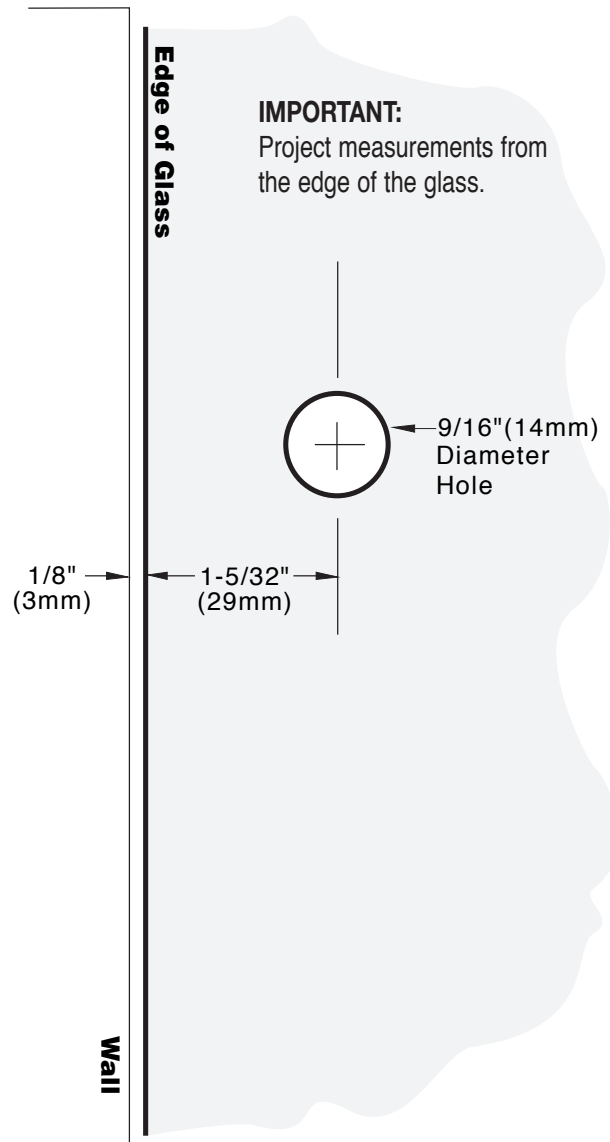


C.R. LAURENCE CO., INC.
PROFESSIONAL QUALITY



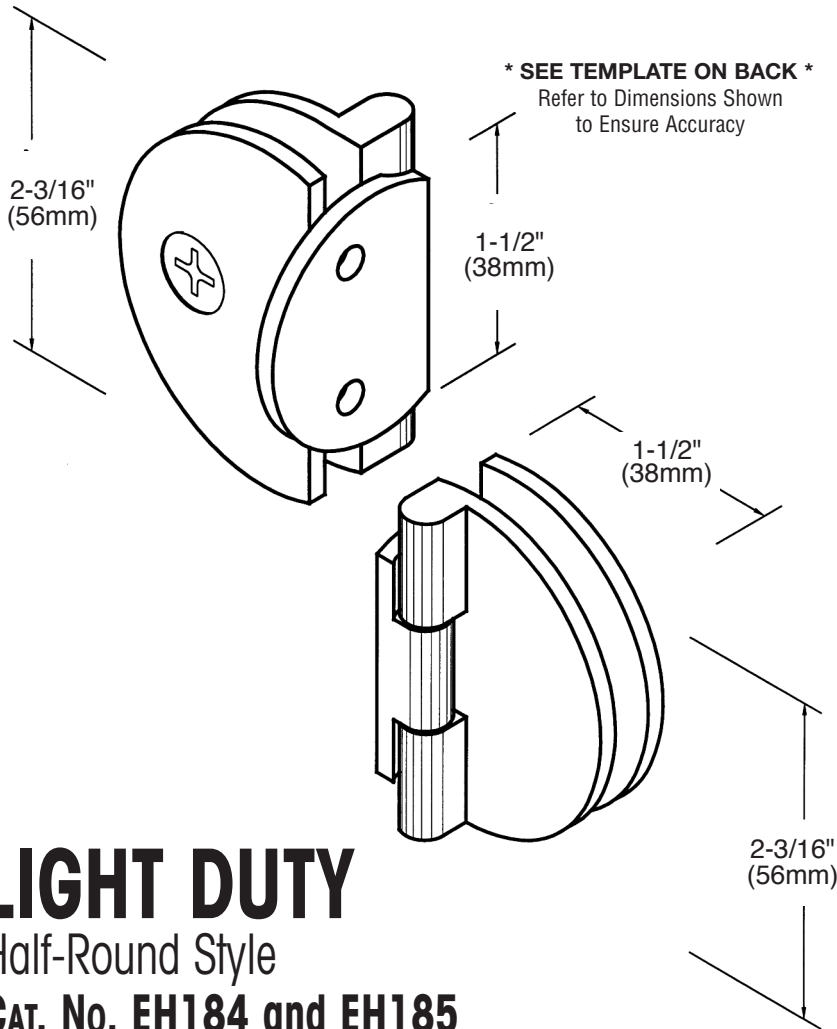
LIGHT DUTY

Square Corner Style
CAT. No. EH86





C.R. LAURENCE CO., INC.
PROFESSIONAL QUALITY



Specifications:

Glass Sizes: 1/4" (6mm) to 5/16" (8mm) thick tempered safety glass

Construction: Solid brass

Closing Type: Free swinging

1/2" Diameter Hole Required (No Cutout)

Includes: Gaskets

Use of Gaskets:

For 1/4"(6mm) Glass: Use one gasket on each side

For 5/16"(8mm) Glass: Use one gasket on each side

Recommendations:

For public safety, we recommend the use of only tempered safety glass.

Do not use power tools when installing these hinges.

LIGHT DUTY

Half-Round Style

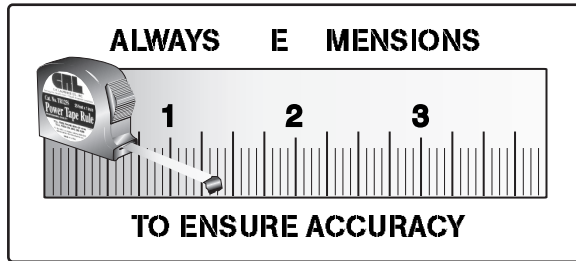
Cat. No. EH184 and EH185

*Maximum Door Capacities	1/4" (6mm) Glass		5/16" (8mm) Glass	
	Weight	Width	Weight	Width
Using 2 Hinges	50 lbs.(23 kg)	24"(610mm)	50 lbs.(23 kg)	24"(610mm)
Using 3 Hinges	75 lbs.(34 kg)	24"(610 mm)	75 lbs.(34 kg)	24"(610 mm)

***NOTE:** Do not exceed either maximum weight or width when choosing proper quantity of hinges.



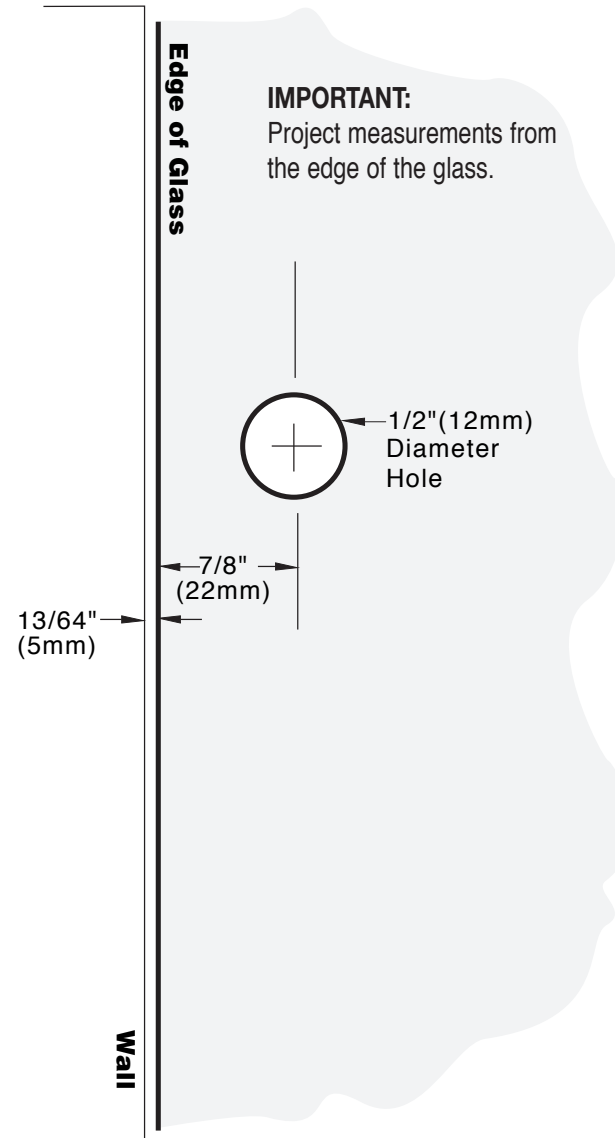
C.R. LAURENCE CO., INC.
PROFESSIONAL QUALITY



LIGHT DUTY

Half-Round Style

CAT. No. EH184 and EH185





C.R. LAURENCE CO., INC.
PROFESSIONAL QUALITY

Specifications:

Glass Sizes: 1/4" (6mm) to 5/16" (8mm) thick tempered safety glass

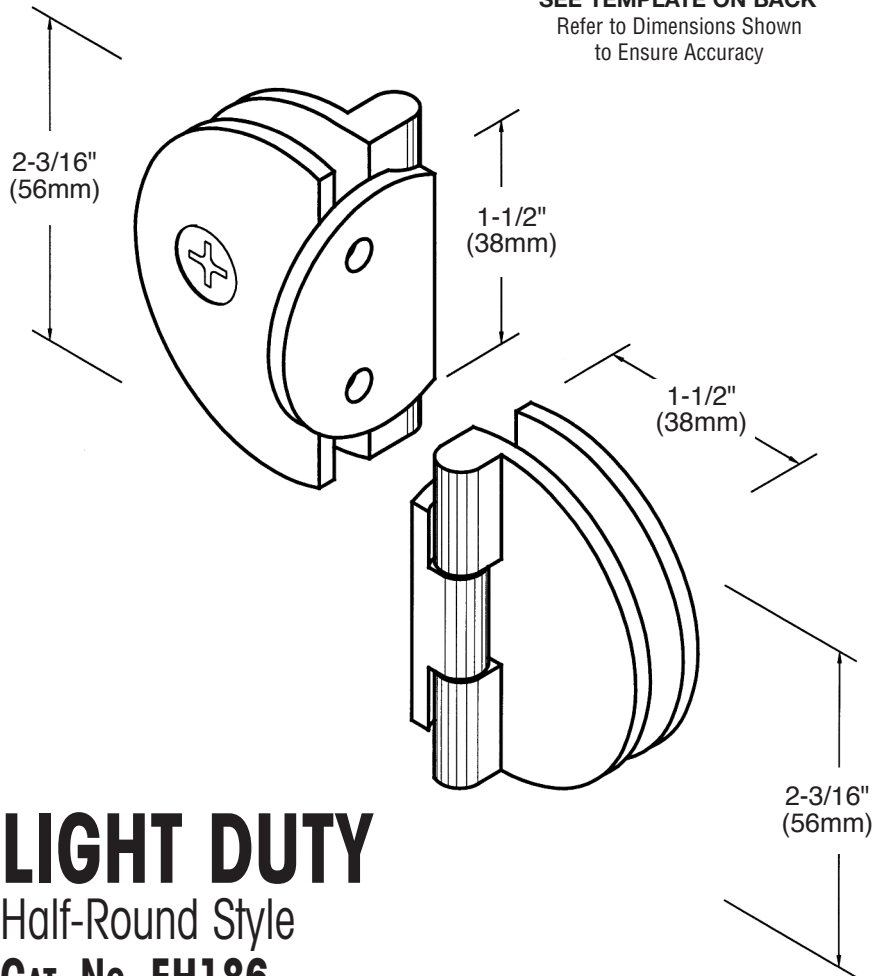
Construction: Solid brass

Closing Type: Free swinging

1/2" Diameter Hole Required (No Cutout)

Includes: Gaskets

*** SEE TEMPLATE ON BACK ***
 Refer to Dimensions Shown
 to Ensure Accuracy



Use of Gaskets:

For 1/4"(6mm) Glass: Use one gasket on each side

For 5/16"(8mm) Glass: Use one gasket on each side

Recommendations:

For public safety, we recommend the use of only tempered safety glass.

Do not use power tools when installing these hinges.

LIGHT DUTY

Half-Round Style

Cat. No. EH186

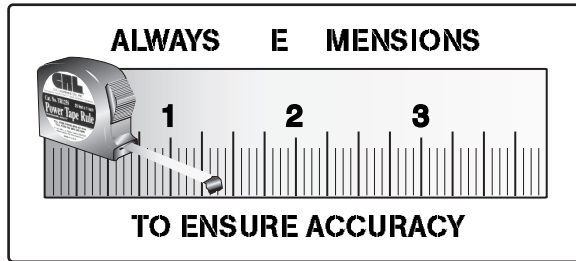
*Maximum Door Capacities	1/4" (6mm) Glass		5/16" (8mm) Glass	
	Weight	Width	Weight	Width
Using 2 Hinges	50 lbs.(23 kg)	24"(610mm)	50 lbs.(23 kg)	24"(610mm)
Using 3 Hinges	75 lbs.(34 kg)	24"(610 mm)	75 lbs.(34 kg)	24"(610 mm)

***NOTE:** Do not exceed either maximum weight or width when choosing proper quantity of hinges.

4V-7



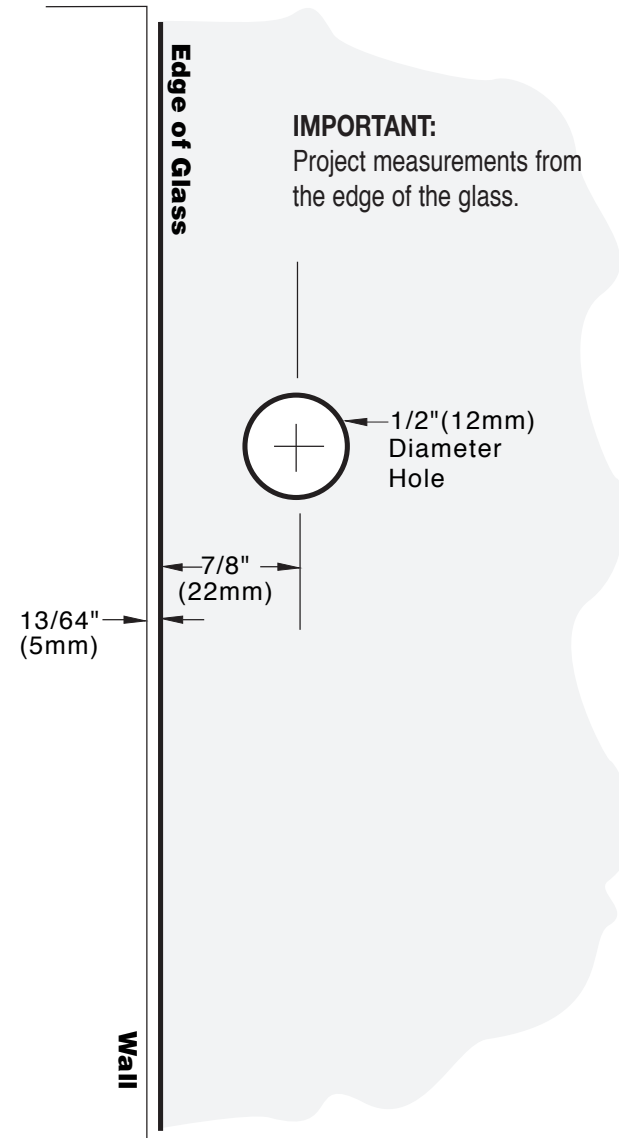
C.R. LAURENCE CO., INC.
PROFESSIONAL QUALITY



LIGHT DUTY

Half-Round Style

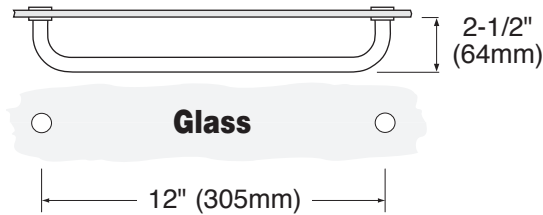
CAT. No. EH186



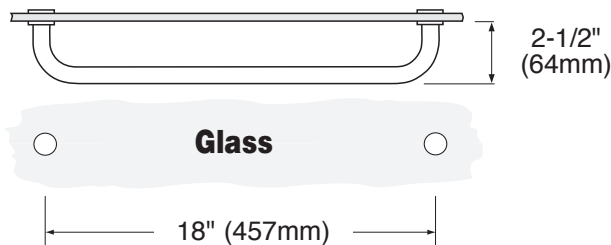


C.R. LAURENCE CO., INC.
PROFESSIONAL QUALITY

CAT No. BM12
CAT No. V1C12
CAT No. BMNW12
CAT No. CATB12
CAT No. SDTBS12



CAT No. BM18
CAT No. V1C18
CAT No. BMNW18
CAT No. CATB18
CAT No. CATBT18
CAT No. SDTBS18
CAT No. TBCT18
CAT No. TBCC18
CAT No. CSH18
CAT No. SQ18
CAT No. COL18
CAT No. MT18



TOWEL BARS

Single-Sided Glass Mounted (Brass or Acrylic Construction)

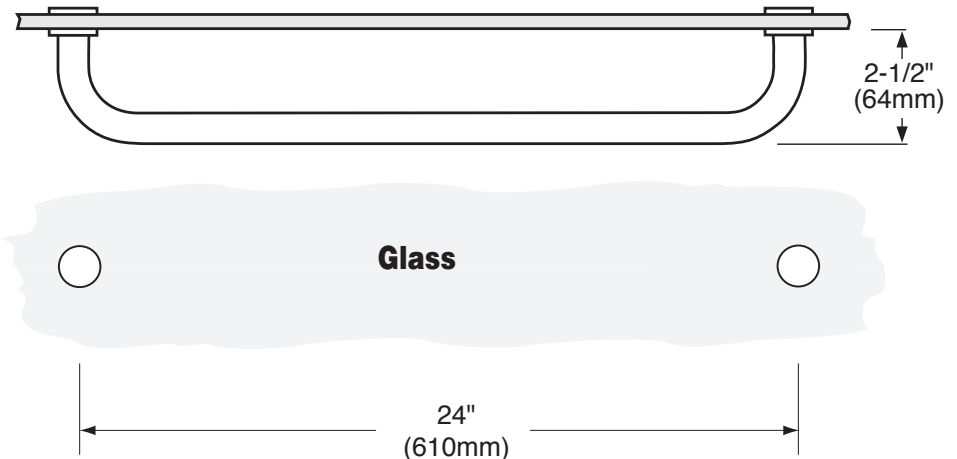
TOWEL BAR / KNOB COMBOS

Specifications:

* See note at bottom of page concerning towel bars not shown in the diagrams on this page.

All Holes Are 1/2" (12mm) Diameter
All Measurements Are Center-To-Center
Appropriate Clear Gaskets Included
Fits 1/4" (6mm) to 1/2" (12mm) Glass

CAT No. BM24 **CAT No. TBCT24**
CAT No. V1C24 **CAT No. TBCC24**
CAT No. BMNW24 **CAT No. CSH24**
CAT No. CATB24 **CAT No. SQ24**
CAT No. CATBT24 **CAT No. COL24**
CAT No. SDTBS24 **CAT No. MT24**



NOTE: Because there are numerous "BM" and "BMNW" towel bars (example BM24CH or BMNW24CH), we are providing the following guideline for determining the fabrication required: Always drill 1/2" (12mm) diameter holes to the center-line of the length of the towel bar that is being ordered. The length of the towel bar is always provided in the catalog number of the product. **For example, a BM24CH is a 24" (610mm) center-to-center towel bar.** Therefore, it is correct to drill (2) 1/2" (12mm) diameter holes 24" (610mm) center-to-center apart. A **BM26BR** would require (2) 1/2" (12mm) diameter holes **26" (660mm)** apart, etc.

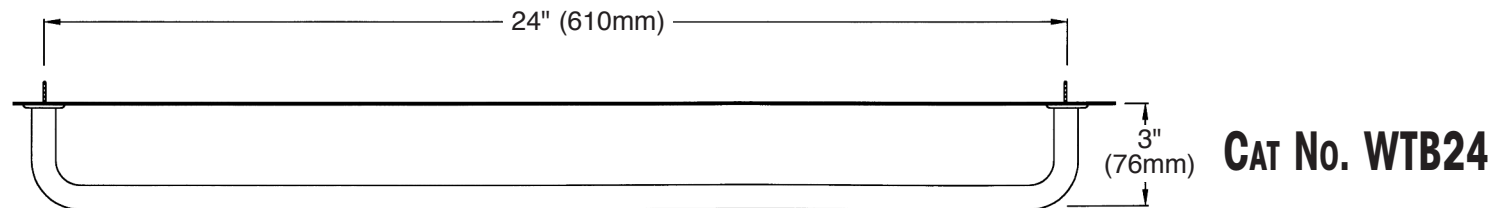
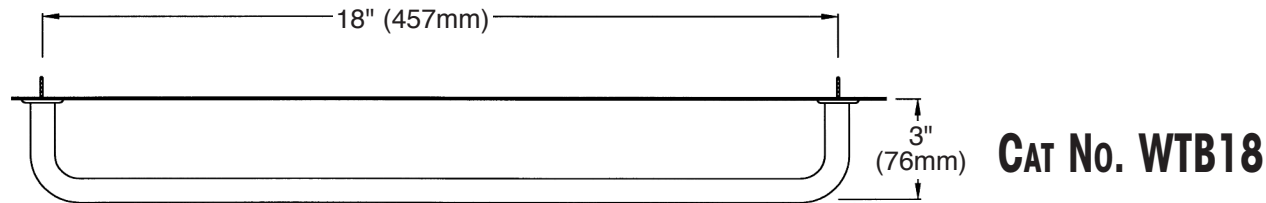
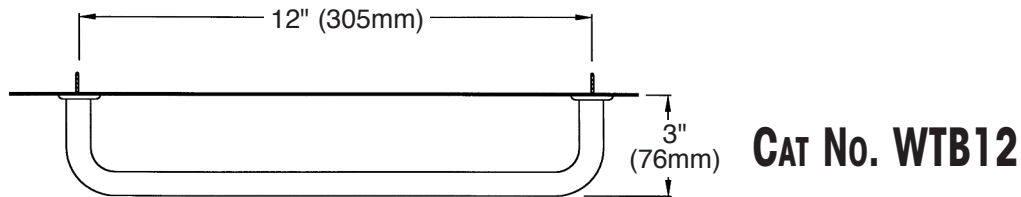
4W-1



C.R. LAURENCE CO., INC.
PROFESSIONAL QUALITY

Specifications:

No Holes Required
Screw Studs Into Wall and Attach Towel Bar
All Measurements Are Center-To-Center
Appropriate Clear Gaskets Included



TOWEL BARS

Wall Mounted (Tubular Brass Construction)

4W-2

C.R. Laurence Co., Inc.
crlaurence.com

For technical assistance in the United States call toll free (800) 421-6144; from Canada call toll free (877) 421-6144;
Outside the U.S. and Canada call (323) 588-1281. Ask for Tech Sales at Extension 7740. Toll free fax (800) 458-7496.

© Copyright 2005, C.R. Laurence Co., Inc_SDT21_US



C.R. LAURENCE CO., INC.
PROFESSIONAL QUALITY

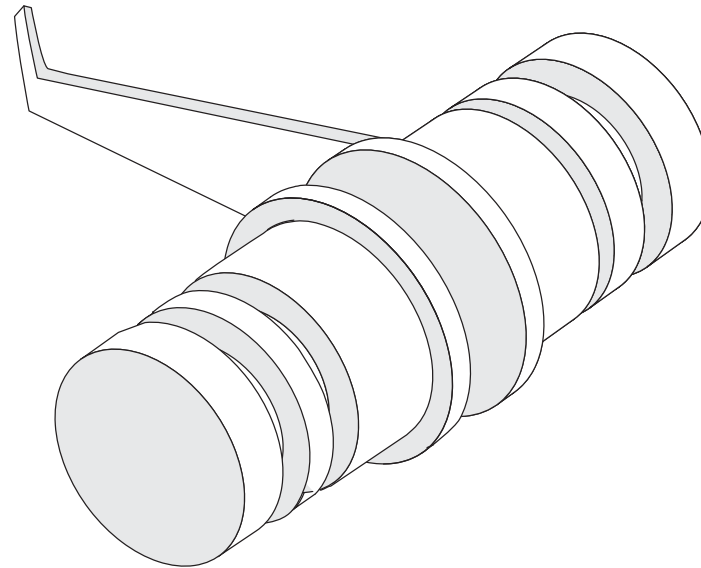
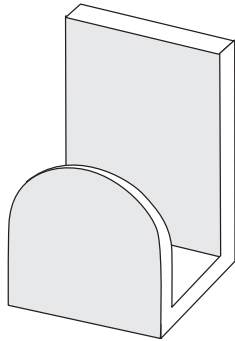
Specifications:

Material: Solid brass

Hole Size Required: 7/8" (22mm)

Glass Thickness Range: 3/8" (10mm) to 1/2" (12mm)

Includes: Knob, and J-Hook for glass-to-glass installation.



KNOB LATCH

135° Glass-To-Glass Installation

CAT. No. LAT135



Latch Fabrication Instructions

(For 135° Glass-to-Glass Installations
Using the Glue-on “J” Strike)

STEP No. 1

Fabricating and placement of Knob Latch: The backset from the edge of the door glass to the center-line of the 7/8" (22mm) knob hole in the door is 2" (51mm). Drill a 7/8" (22mm) hole in the glass at the desired height and the door fabrication is complete. Loosen the Allen screw in the outside knob and turn the knob counter-clockwise until it detaches from the threaded shaft. Remove the metal grommet from the shaft and take it apart. Place a clear plastic gasket on each half and insert the grommet in the 7/8" (22mm) hole in the glass. Make sure that the half with the ball bearing in it is on the inside, and the ball bearing is in the 12:00 o'clock position. Screw the grommets together. From the inside, insert the threaded shaft through the hole in the grommet. To achieve indexing, screw the exterior knob on the threaded shaft until it is tight enough to create tension on the ball bearing. Tighten the Allen screw in the exterior knob and the installation is complete.

STEP No. 2

Placement of the “J” Strike on the fixed glass panel: The “J” Strike is secured to the fixed glass panel with Water Clear Ultra-Violet Cure Adhesive Cat. No. UV349. To determine the location of the “J” Strike on the fixed panel, install the shower door and adjust it to its final position. Project the horizontal center-line of the knob onto the fixed panel. Draw another horizontal line 9/32" (7mm) below the center-line. This will be the line you set the bottom of the “J” Strike on. Inset the vertical edge of the “J” Strike 3/16" (5mm) in from the inside edge of the 45° mitered fixed glass panel. This is the location that the “J” Strike will be glued. Apply a small amount of UV349 Adhesive to the back side of the “J” Strike, and place it on the glass matching the predetermined markings. Wiggle it around to allow excess adhesive to flow out. When the “J” Strike is in position, turn on the UV Light and cure the adhesive from the backside of the glass. NOTE: Different UV Lights have different intensities and cure the adhesive faster or slower depending on the intensity. We suggest you do a test run on your first application. Take a nut or other metal object and apply the adhesive to it. Apply it to a scrap piece of glass and radiate it with your UV Light. This will tell you how long it takes to cure the adhesive.



C.R. LAURENCE CO., INC.
PROFESSIONAL QUALITY

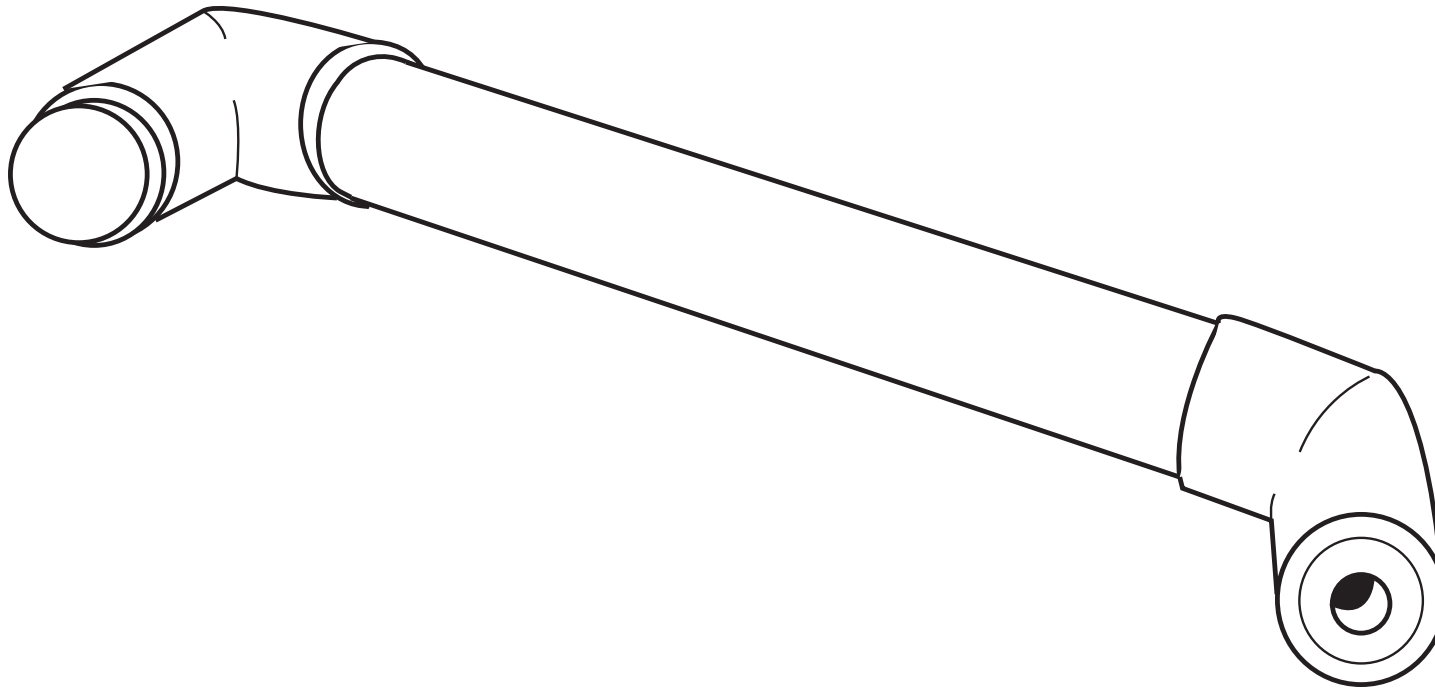
Specifications:

Material: Solid brass

Hole Size Required: 5/8" (16mm)

Glass Thickness Range: 3/8" (10mm) to 1/2" (12mm)

Includes: Glass Fitting, Wall Fitting and 39" (990mm) Bar



THROUGH-GLASS MOUNTED SUPPORT BAR

CAT. No. SUP135

4W-17



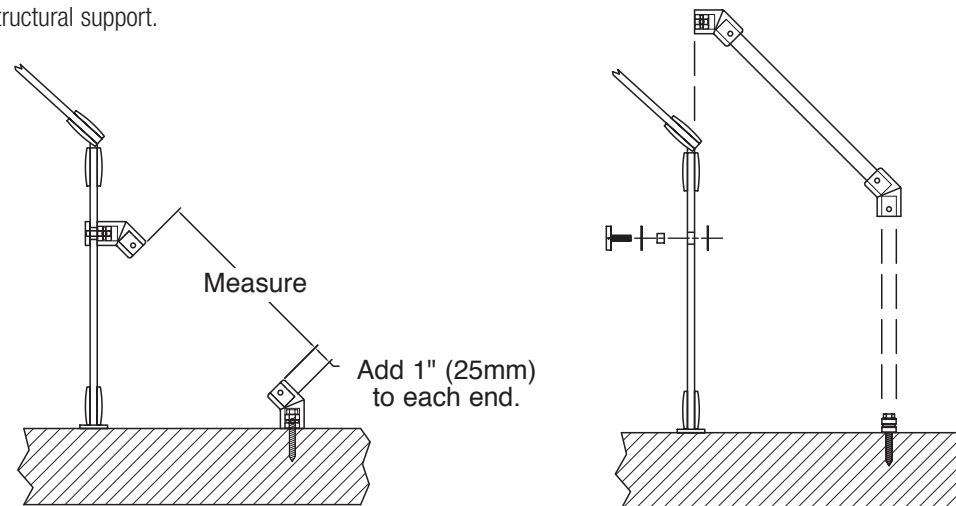
Through-Glass Mounted Support Bar Mounting Instructions (Cat. No. SUP135)

To locate the position of the wall-mounted coupling piece, that accepts the fitting used to fasten the Support Bar to the wall, follow the steps below:

- 1) Place the fixed panel of glass that is using the Support Bar in the correct position. Once the fixed panel is properly positioned, take a measurement from the wall to the center of the hole that has been drilled in the fixed panel.
- 2) Using a level horizontally, find the center of the hole in the fixed panel and mark a dot on the wall that is level from the center of the hole.
- 3) Now position the level along the wall inside the enclosure, matching the dot location determined in the previous step.
- 4) Using the dimension taken in step 2 measure from the inside face of the glass along the wall and make a dot on the wall that corresponds to the step 2 dimension.
- 5) Drill the wall and fasten the coupling piece to the wall.
- 6) Fasten the 135° angled fittings to the wall and fixed panel of glass.
- 7) Once the fittings are in place, determine the correct size to cut the Support Bar itself.
- 8) Take a "daylight" dimension between the fittings and add 2" (51mm) to that dimension for the cut-to-length size of the bar. (see figure A)
- 9) Once the bar is cut to size, remove the 135° fitting that goes through the fixed panel and fasten it to the end of the bar.
- 10) The installation can now be completed by positioning the bar onto the wall mounted coupling piece and securely fastening the fittings together. (see figure B)
- 11) With the bar permanently positioned, firmly fasten all set screws to assure structural support.

Glass Fabrication Instructions for Through-Glass Mounted Support Bar

- 1) Drill a 5/8" (16mm) diameter hole in the fixed panel of glass 2" (51mm) in from the vertical edge of the glass. Position the hole 4" (102mm) down from the top edge of the fixed panel. This hole location is recommended for maximum support and should be adhered to at all times.
- 2) Maximum width of a fixed panel to hinge from is 30" (762mm). Hinging a door off a panel that is wider than 30" (762mm) using the Through-Glass Mounted Support Bar is not recommended.



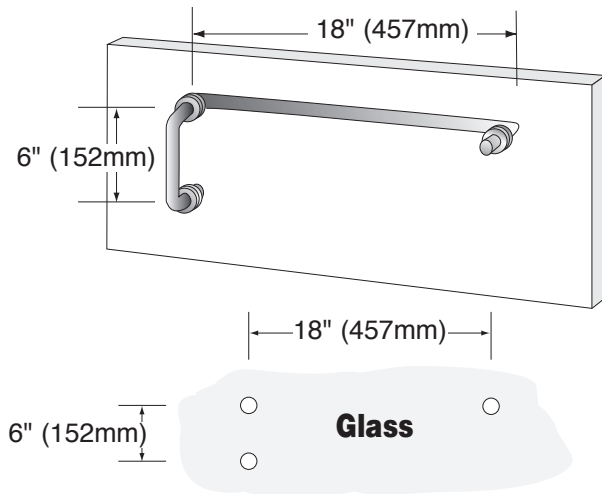
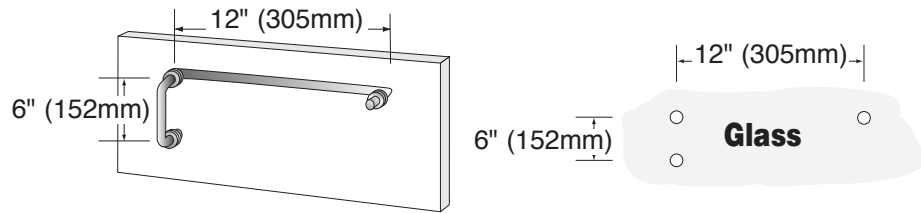


C.R. LAURENCE CO., INC.
PROFESSIONAL QUALITY

CAT No. BM6X12

CAT No. BMNW6X12

CAT No. SDP6TB12

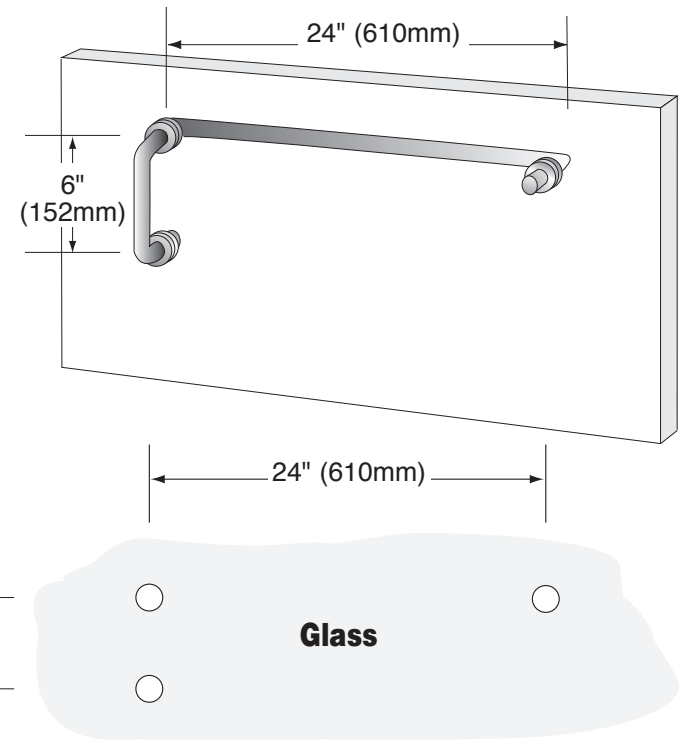


- CAT No. BM6X18**
- CAT No. VIC6X18**
- CAT No. BMNW6X18**
- CAT No. MT6X18**
- CAT No. SDP6TB18**
- CAT No. SQ6X18**
- CAT No. CAC6X18**
- CAT No. COL6X18**

Specifications:

All Holes Are 1/2" (12mm) Diameter
 All Measurements Are Center-To-Center
 Appropriate Clear Gaskets Included
 Fits 1/4" (6mm) to 1/2" (12mm) Glass

- CAT No. BM6X24**
- CAT No. BMNW6X24**
- CAT No. SDP6TB24**
- CAT No. VIC6X24**
- CAT No. MT6X24**
- CAT No. SQ6X24**
- CAT No. COL6X24**



PULL AND TOWEL BAR COMBINATION SETS

(Brass or Acrylic Construction)

C.R. Laurence Co., Inc.
crlaurence.com

For technical assistance in the United States call toll free (800) 421-6144; from Canada call toll free (877) 421-6144;
 Outside the U.S. and Canada call (323) 588-1281. Ask for Tech Sales at Extension 7740. Toll free fax (800) 458-7496.



C.R. LAURENCE CO., INC.
PROFESSIONAL QUALITY

CAT No. BM8X24

CAT No. V1C8X24

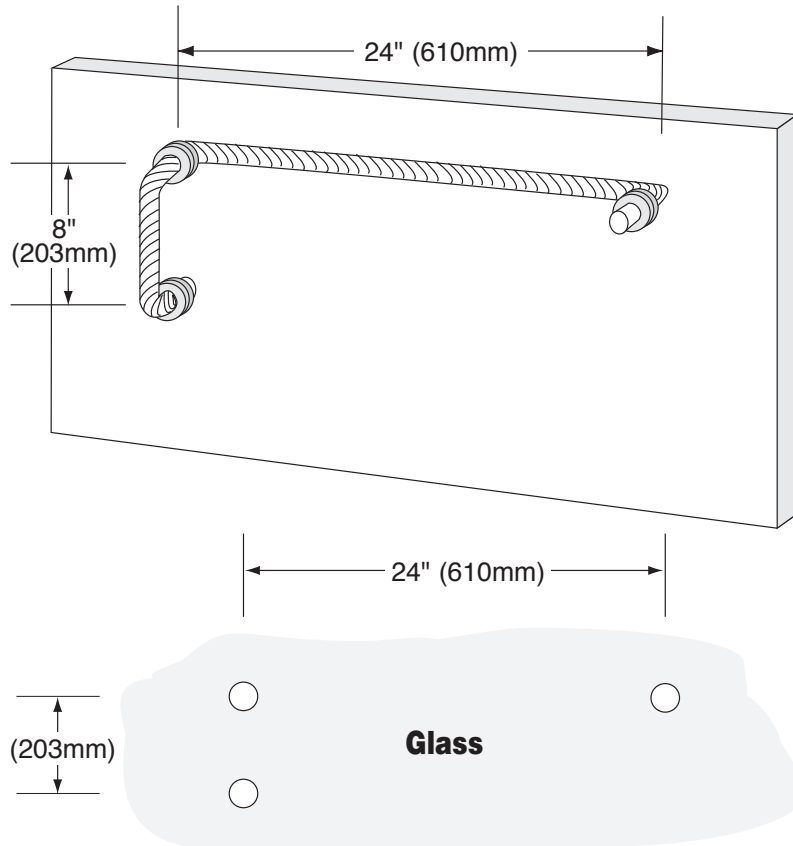
CAT No. BMNW8X24

CAT No. CAC8X24

CAT No. CAT8X24

CAT No. MT8X24

CAT No. SQ8X24



CAT No. BM8X18

CAT No. V1C8X18

CAT No. BMNW8X18

CAT No. CAC8X18

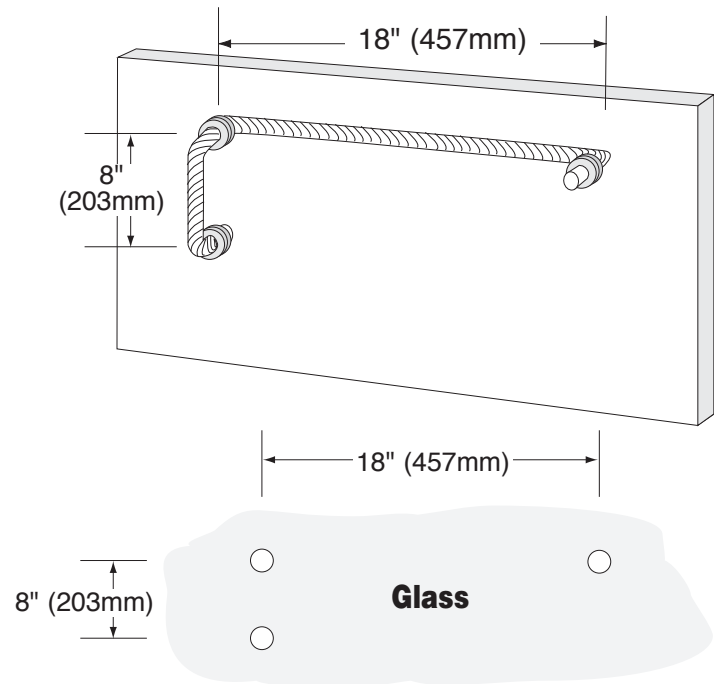
Specifications:

All Holes Are 1/2" (12mm) Diameter
 All Measurements Are Center-To-Center
 Appropriate Clear Gaskets Included
 Fits 1/4" (6mm) to 1/2" (12mm) Glass

CAT No. CAT8X18

CAT No. MT8X18

CAT No. SQ8X18



PULL AND TOWEL BAR COMBINATION SETS

(Brass or Acrylic Construction)

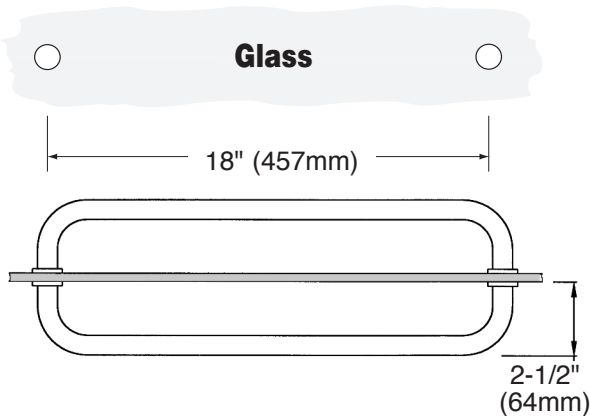
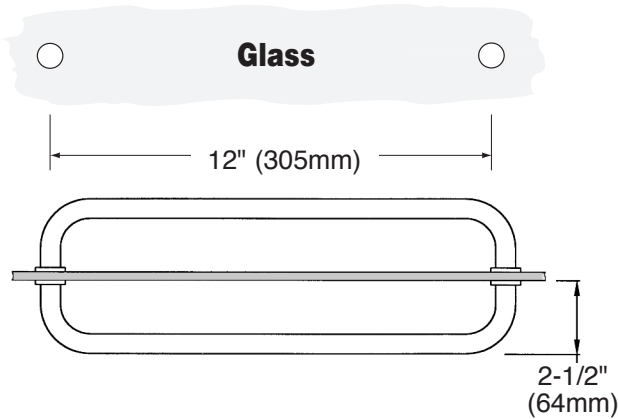
C.R. Laurence Co., Inc.
crlaurence.com

For technical assistance in the United States call toll free (800) 421-6144; from Canada call toll free (877) 421-6144; Outside the U.S. and Canada call (323) 588-1281. Ask for Tech Sales at Extension 7740. Toll free fax (800) 458-7496.

© Copyright 2005, C.R. Laurence Co., Inc._SDT21_U5



CAT No. BM12X12
CAT No. VIC12X12
CAT No. BMNW12X12
CAT No. CATB12X12
CAT No. SDTB12X12



CAT No. BPD18
CAT No. COL18X18
CAT No. BM18X18
CAT No. CSH18X18
CAT No. VIC18X18
CAT No. MT18X18
CAT No. BMNW18X18
CAT No. SQ18X18
CAT No. SDTB18X18

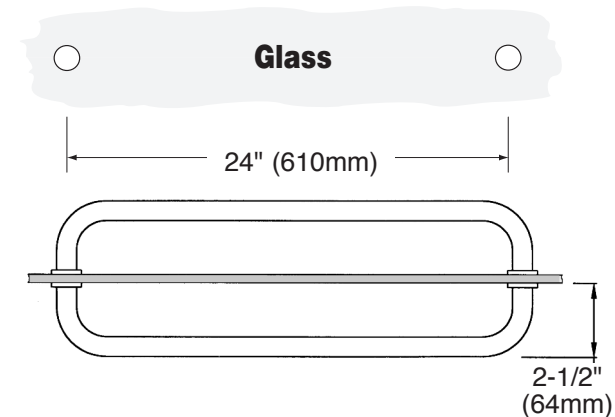
TOWEL BARS

Back-To-Back (Brass or Acrylic Construction)

CAT No. BPD24
CAT No. BM24X24
CAT No. VIC24X24
CAT No. BMNW24X24
CAT No. SDTB24X24
CAT No. CSH24X24
CAT No. COL24X24
CAT No. MT24X24
CAT No. SQ24X24

Specifications:

All Holes Are 1/2" (12mm) Diameter
All Measurements Are Center-To-Center
Appropriate Clear Gaskets Included
Fits 1/4" (6mm) to 1/2" (12mm) Glass



NOTE: Because there are numerous "BM" towel bars (example BM24X24CH or BMNW24X24CH), we are providing the following guideline for determining the fabrication required: Always drill 1/2" (12mm) diameter holes to the center-line of the length of the towel bar that is being ordered. The length of the towel bar is always provided in the catalog number of the product. **For example, a BM24X24CH is a 24" (610mm) center-to-center towel bar.** Therefore, it is correct to drill (2) 1/2" (12mm) diameter holes 24" (610mm) center-to-center apart. A **BMNW30X30BR** would require (2) 1/2" (12mm) diameter holes **30" (762mm)** apart, etc.



C.R. LAURENCE CO., INC.
PROFESSIONAL QUALITY

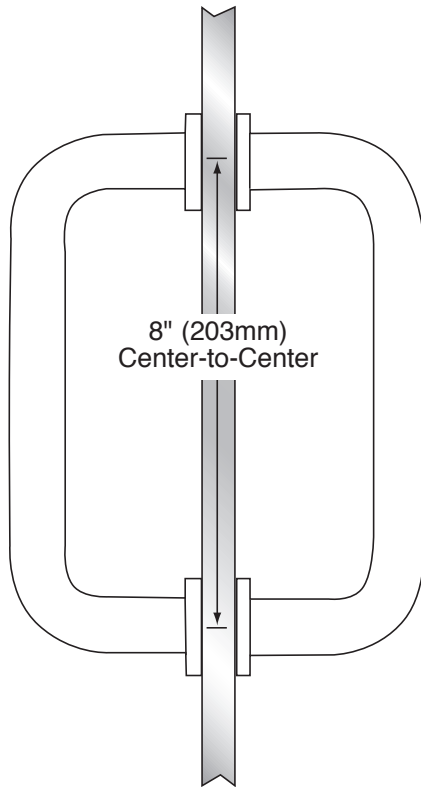
Specifications:

All Holes Are 1/2" (12mm) Diameter with exception of SBP81 which requires 5/8" (16mm) diameter.

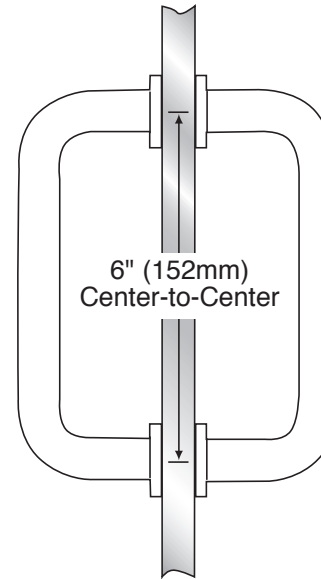
All Measurements Are Center-To-Center

Appropriate Clear Gaskets Included

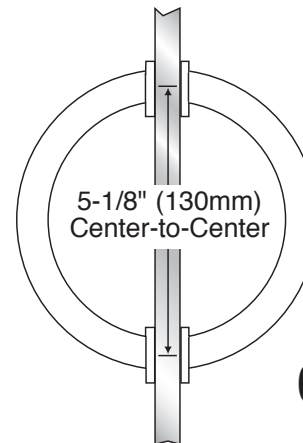
Fits 1/4" (6mm) to 1/2" (12mm) Glass



- CAT No. V1C8X8**
- CAT No. BM8X8**
- CAT No. BMNW8X8**
- CAT No. SPH8**
- CAT No. BPD8**
- CAT No. BPS8**
- CAT No. SBP81**
- CAT No. SSP8**
- CAT No. CSH8X8**
- CAT No. SQ8X8**
- CAT No. MT8X8**
- CAT No. COL8X8**
- CAT No. LP8X8**



- CAT No. BM6X6**
- CAT No. BMNW6X6**
- CAT No. BPD6**
- CAT No. BPS6**
- CAT No. SDPR6**
- CAT No. SPH6**
- CAT No. SSDP6**
- CAT No. SSP6**
- CAT No. CSH6X6**
- CAT No. LP6X6**
- CAT No. V1C6X6**
- CAT No. MT6X6**
- CAT No. SQ6X6**
- CAT No. COL6X6**



CAT No. SDPC575

DOOR PULLS

(Solid Brass or Tubular Brass Construction)

C.R. Laurence Co., Inc.
crlaurence.com

For technical assistance in the United States call toll free (800) 421-6144; from Canada call toll free (877) 421-6144; Outside the U.S. and Canada call (323) 588-1281. Ask for Tech Sales at Extension 7740. Toll free fax (800) 458-7496.

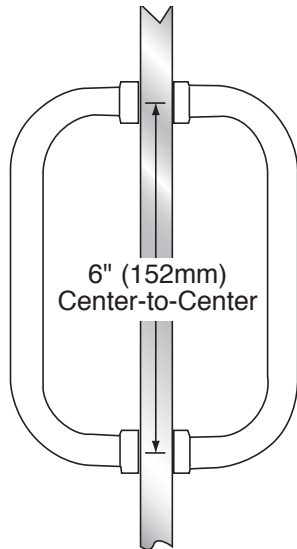


C.R. LAURENCE CO., INC.
PROFESSIONAL QUALITY

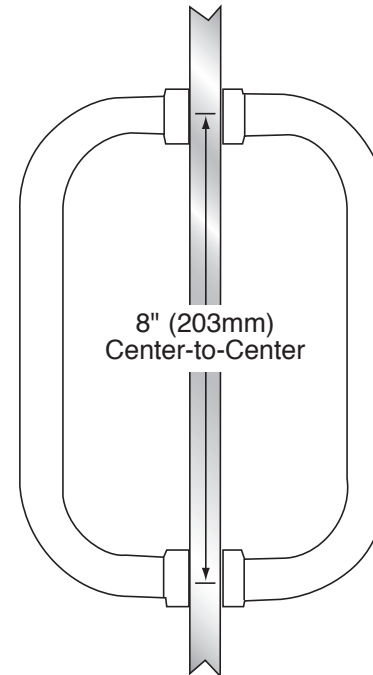
Specifications:

All Holes Are 1/2" (12mm) Diameter
All Measurements Are Center-To-Center
Appropriate Clear Gaskets Included
Fits 1/4" (6mm) to 1/2" (12mm) Glass

CAT No. CAP6X6 (REGULAR STYLE)
CAT No. CAT6X6 (TWIST STYLE)



CAT No. CAP8X8 (REGULAR STYLE)
CAT No. CAT8X8 (TWIST STYLE)



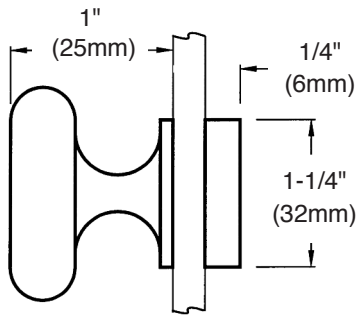
DOOR PULLS

(Acrylic Construction)

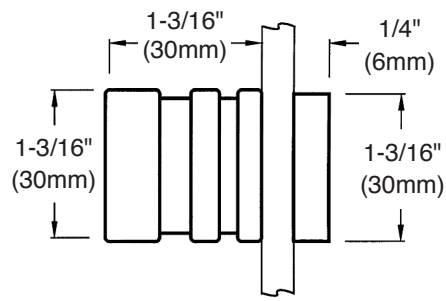


Single-Sided

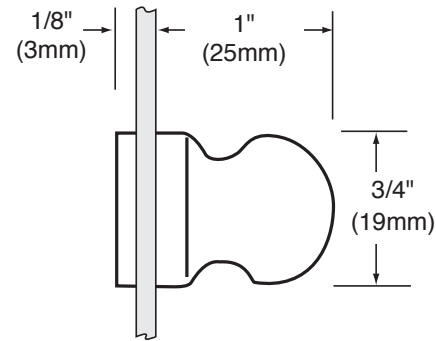
CAT. No. SDK200



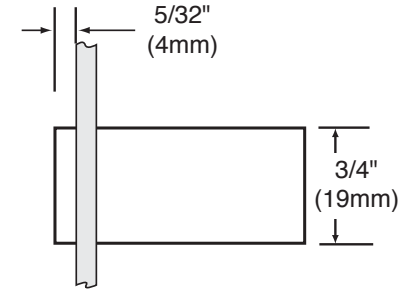
CAT. No. SDK206



CAT. No. 19MK



CAT. No. SDK212



Specifications:

Material: Solid brass

Glass Thickness Range: 1/4" (6mm) to 1/2" (12mm) thick glass

Hole Size Required: 1/2" (12mm) diameter

KNOBS



Specifications:

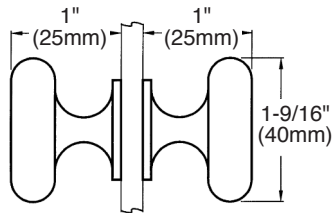
Material: Solid brass

Glass Thickness Range: 1/4" (6mm) to 1/2" (12mm) thick glass

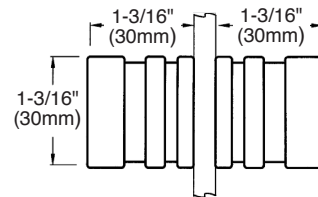
Hole Size Required: 1/2" (12mm) diameter, except SDK410CR which is 3/8" (10mm)

BACK-TO-BACK

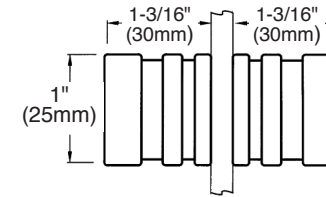
CAT. No. SDK100



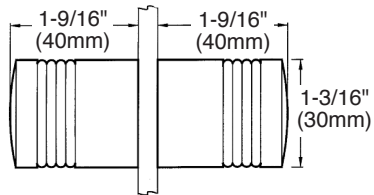
CAT. No. SDK106



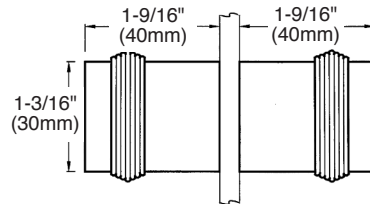
CAT. No. SDK107



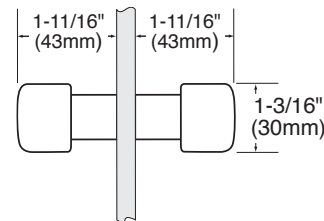
CAT. No. SDK118



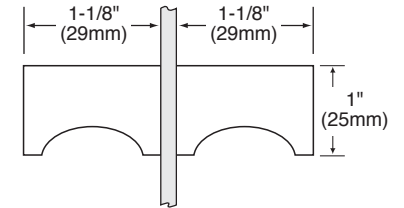
CAT. No. SDK643



CAT. No. SDK410CR



CAT. No. SDK140



KNOBS



C.R. LAURENCE CO., INC.
PROFESSIONAL QUALITY

BACK-TO-BACK

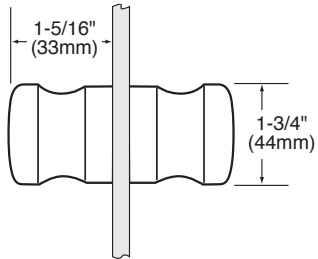
Specifications:

Material: Solid brass

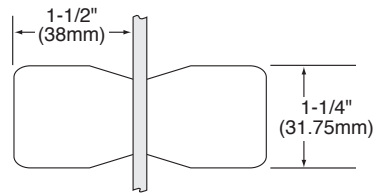
Glass Thickness Range: 1/4" (6mm) to 1/2" (12mm) thick glass

Hole Size Required: 1/2" (12mm) diameter

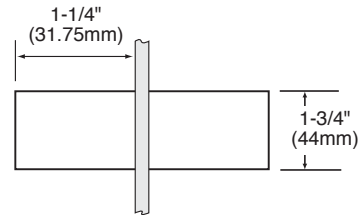
CAT. No. SDK120



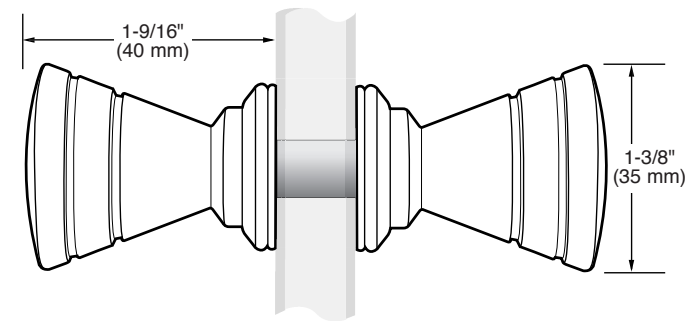
CAT. No. SDK109



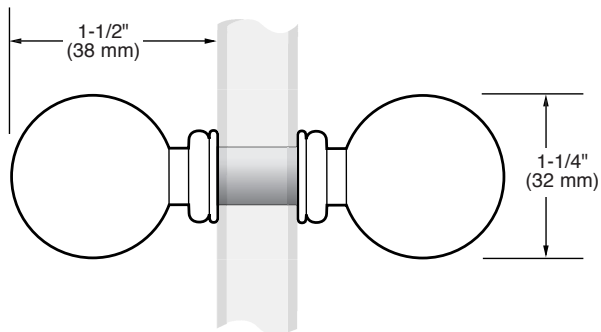
CAT. No. SDK112



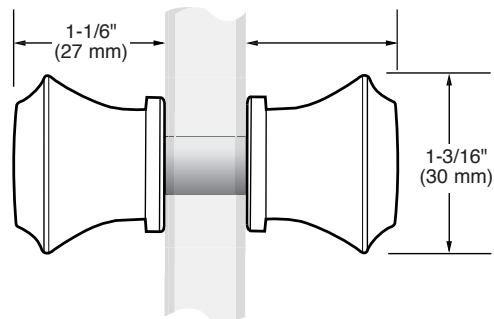
CAT. No. SDK046



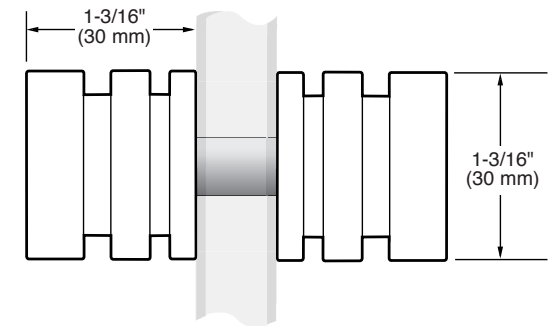
CAT. No. SDK075



CAT. No. SDK053



CAT. No. SDK160



KNOBS

4W-8B

C.R. Laurence Co., Inc.
crlaurence.com

For technical assistance in the United States call toll free (800) 421-6144; from Canada call toll free (877) 421-6144; Outside the U.S. and Canada call (323) 588-1281. Ask for Tech Sales at Extension 7740. Toll free fax (800) 458-7496.

© Copyright 2009, C.R. Laurence Co., Inc._SDT21_US



C.R. LAURENCE CO., INC.
PROFESSIONAL QUALITY

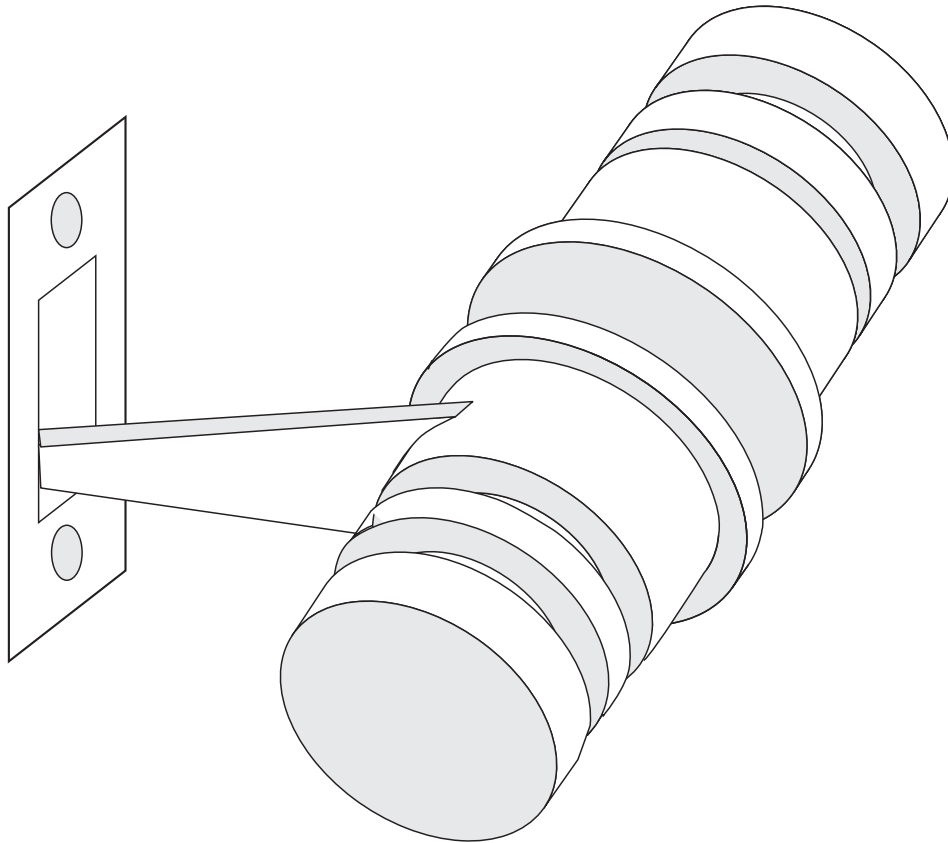
Specifications:

Material: Solid brass

Hole Size Required: 7/8" (22mm)

Glass Thickness Range: 3/8" (10mm) to 1/2" (12mm)

Includes: Knob, Tapered Strike for wall-to-glass installation and J-Hook for glass-to-glass installation.



KNOB LATCH

Glass-To-Wall Installation

(For Glass-To-Glass Installations, See Pages 4W-12 through 4W-14)

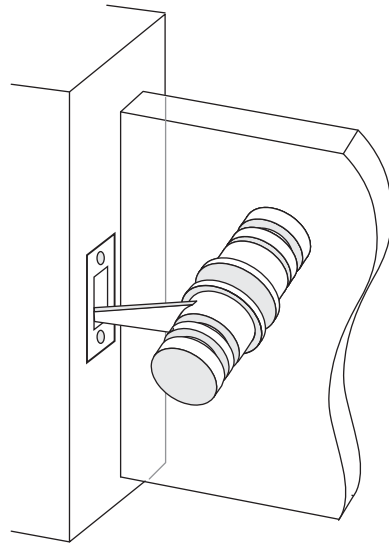
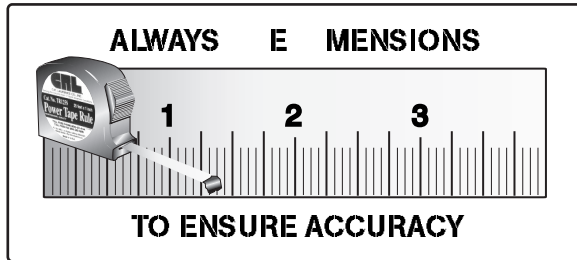
CAT No. LAT001

C.R. Laurence Co., Inc. For technical assistance in the United States call toll free (800) 421-6144; from Canada call toll free (877) 421-6144;
crlaurence.com Outside the U.S. and Canada call (323) 588-1281. Ask for Tech Sales at Extension 7740. Toll free fax (800) 458-7496.

© Copyright 2005, C.R. Laurence Co., Inc_SDT21_U5



C.R. LAURENCE CO., INC.
PROFESSIONAL QUALITY

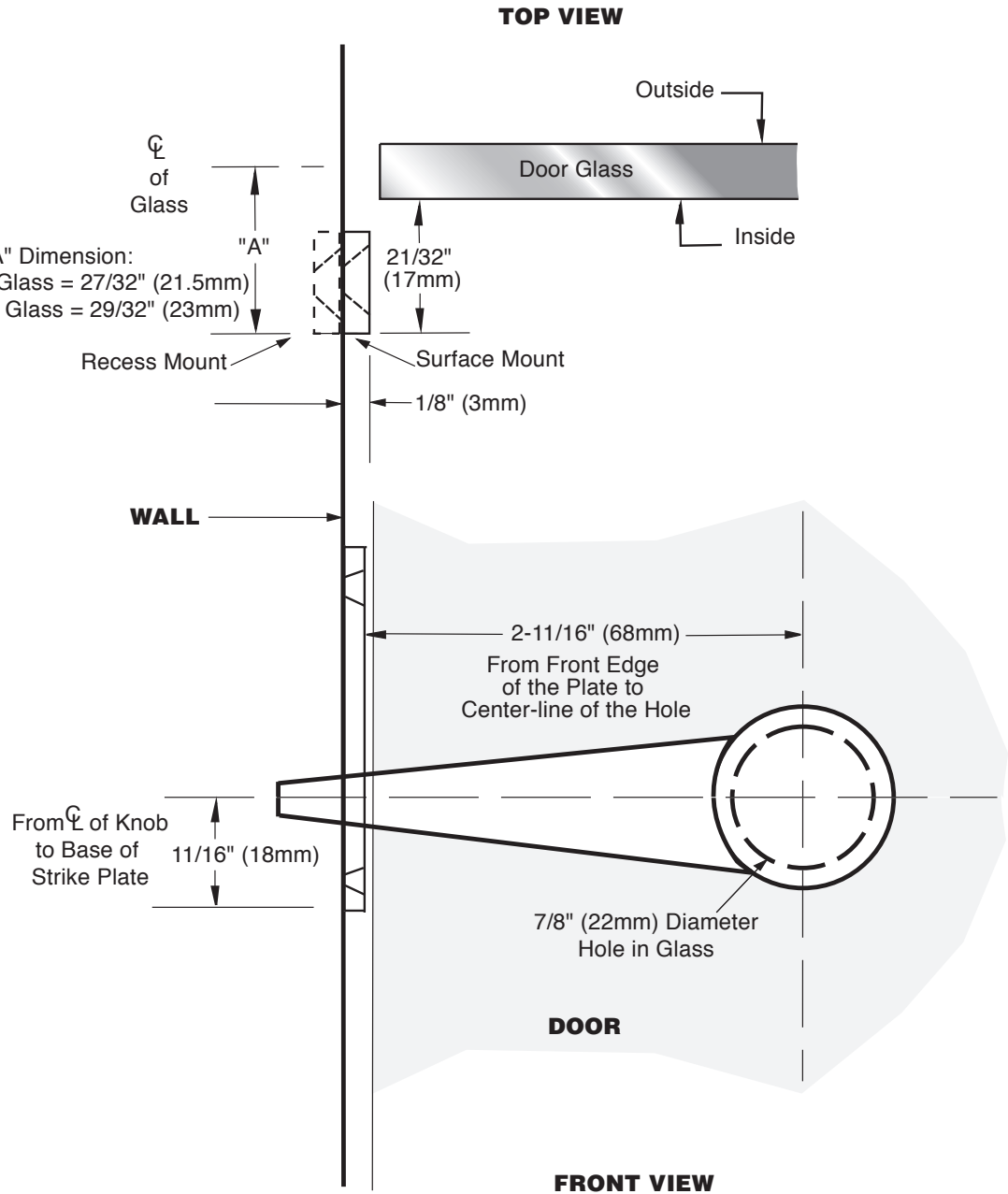


**Glass-to-Wall
Inside View**

KNOB LATCH

Glass-To-Wall Installation

CAT. No. LAT001





Latch Fabrication Instructions

(For Glass-to-Wall Installations Where the Strike is Surface Mounted to the Wall)

STEP No. 1

Fabricating and placement of Knob Latch: Deduct 1/8" (3mm) from the desired gap between the edge of the glass and the wall (example: desired gap 3/16" (5mm)-1/8" (3mm) = 1/16" (2mm) balance). Deduct this 1/16" (2mm) balance from the 2-11/16" (68mm) backset measurement to the center of the hole $2-11/16" (68mm) - 1/16" (2mm) = 2-5/8" (66mm)$. This will be the measurement from the edge of the glass to the center-line of the hole. Drill a 7/8" (22mm) hole in the glass at the desired height and the door fabrication is complete. Loosen the Allen screw in the outside knob and turn the knob counter-clockwise until it detaches from the threaded shaft. Remove the metal grommet from the shaft and take it apart. Place a clear plastic gasket on each half and insert the grommets together. From the inside, insert the threaded shaft through the hole in the grommet. To achieve indexing, screw the exterior knob on the threaded shaft until it is tight enough to create tension on the ball bearing. Tighten the Allen screw in the exterior knob and the installation is complete.

STEP No. 2

Placement of the surface mounted strike plate on the wall: The edge of the surface mounted strike plate closest to the inside of the shower enclosure should be 21/32" (17mm) back from the inside edge of the door glass, when the door is set in the desired closed position. For 3/8" (10mm) glass, this measurement would be back 27/32" (21.5mm) from the center-line of the glass. For 1/2" (12mm) glass, this measurement would be back 29/32" (23mm) the center-line of the glass. Position the strike plate with the inside edge of the plate matching one of the above dimensions, being sure that the narrow end of the tapered slot is facing down. Slide the strike plate up or down until the bottom of the plate is 11/16" (18mm) below the center-line of the knob after the door is installed. Mark the location of the slot and holes, and remove the strike plate. Using a masonry drill bit, drill the wall and insert anchors in the hole locations for attachment of the strike plate, using the provided screws. In the slotted area of the strike plate, use a masonry drill bit to drill a series of holes to form a slot approximately 3/8" (10mm) deep. Secure the strike plate with screws and the installation is finished.

Latch Fabrication Instructions

(For Glass-to-Wall Installations Where the Strike is Recess Mounted Flush to the Wall)

STEP No. 1

Fabricating and placement of Knob Latch: First, determine the desired gap between the edge of the glass and the wall that the door is to strike against. Now, deduct the desired width of the gap from the 2-11/16" (68mm) backset measurement to the center of the hole *example:* $2-11/16" (68mm) \text{ backset} - 3/16" \text{ gap} = 2-1/2" (63mm)$. This will be the measurement from the edge of the glass to the center-line of the hole. Drill a 7/8" (22mm) hole in the glass at the desired height and the door fabrication is complete. Loosen the Allen screw in the outside knob and turn the knob counter-clockwise until it detaches from the threaded shaft. Remove the metal grommet from the shaft and take it apart. Place a clear plastic gasket on each half and insert the grommet into the 7/8" (22mm) hole in the glass. Make sure that the half with the ball bearing in it is on the inside, and the ball bearing is in the 12:00 o'clock position. Screw the grommets together. From the inside, insert the threaded shaft through the hole in the grommet. To achieve indexing, screw the exterior knob on the threaded shaft until it is tight enough to create tension on the ball bearing. Tighten the Allen screw in the exterior knob and the installation is complete.

STEP No. 2

Placement of the flush mounted strike plate on the wall: This step should be planned before the marble or tile is set in place, as it is very difficult to cut a square recess after installation. The tile or marble installer should complete all of their work with the exception of the area where the strike is going. This will allow you to do your center-line measurements and plot the location of the strike. Then the installer can square cut the marble or tile to accept the strike. Remember, the strike plate is to be mounted flush with the surface of the marble or tile so it can only be recessed the thickness of the plate. The edge of the flush mounted strike plate closest to the inside of the shower enclosure should be 21/32" (17mm) back from the inside edge of the door glass, with the door is set in the desired closed position. For 3/8" (10mm) glass this measurement would be back 27/32" (21.5mm) from the center-line of the glass. Position the strike plate with the inside edge of the plate matching one of the above dimensions, being sure that the narrow end of the tapered slot is facing down. Slide the strike plate up or down until the base of the plate is 11/16" (18mm) below the center-line of the knob after the door is installed. Mark the location of the slot, holes and outside perimeter of the strike so the proper size recess can be provided by the marble/tile installer. Using a masonry drill bit, drill the recess and insert anchors in the hole locations for attachment of the strike plate, using the provided screws. In the slotted area of the strike plate, use a masonry drill bit to drill a series of holes to form a slot approximately 3/8" (10mm) deep. Secure the strike plate with screws and the installation is finished.



C.R. LAURENCE CO., INC.
PROFESSIONAL QUALITY

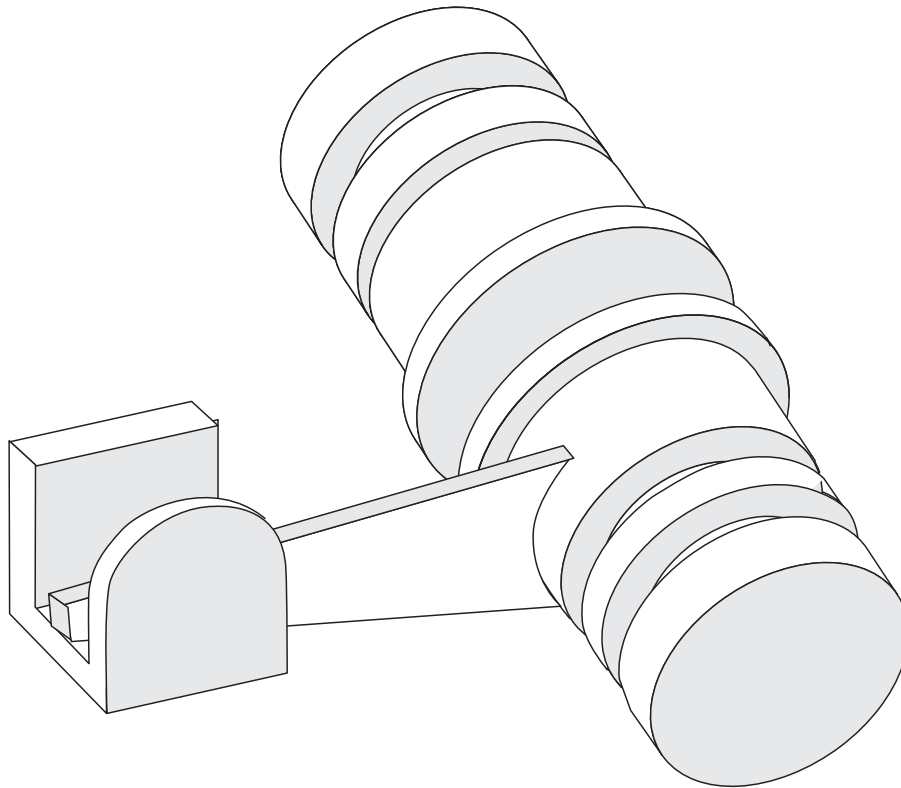
Specifications:

Material: Solid brass

Hole Size Required: 7/8" (22mm)

Glass Thickness Range: 3/8" (10mm) to 1/2" (12mm)

Includes: Knob, Tapered Strike for wall-to-glass installation and J-Hook for glass-to-glass installation.



KNOB LATCH

Glass-To-Glass Installation

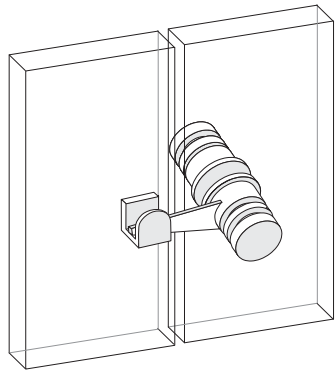
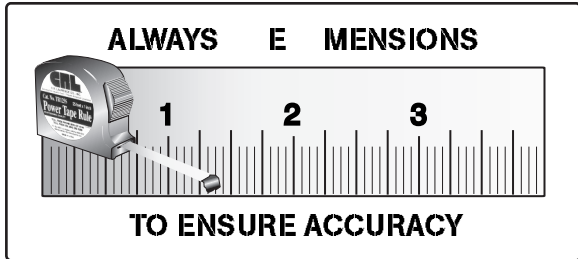
(For Glass-To-Wall Installations, See Pages 4W-9 through 4W-11)

CAT. No. LAT001

C.R. Laurence Co., Inc. For technical assistance in the United States call toll free (800) 421-6144; from Canada call toll free (877) 421-6144;
crlaurence.com Outside the U.S. and Canada call (323) 588-1281. Ask for Tech Sales at Extension 7740. Toll free fax (800) 458-7496.

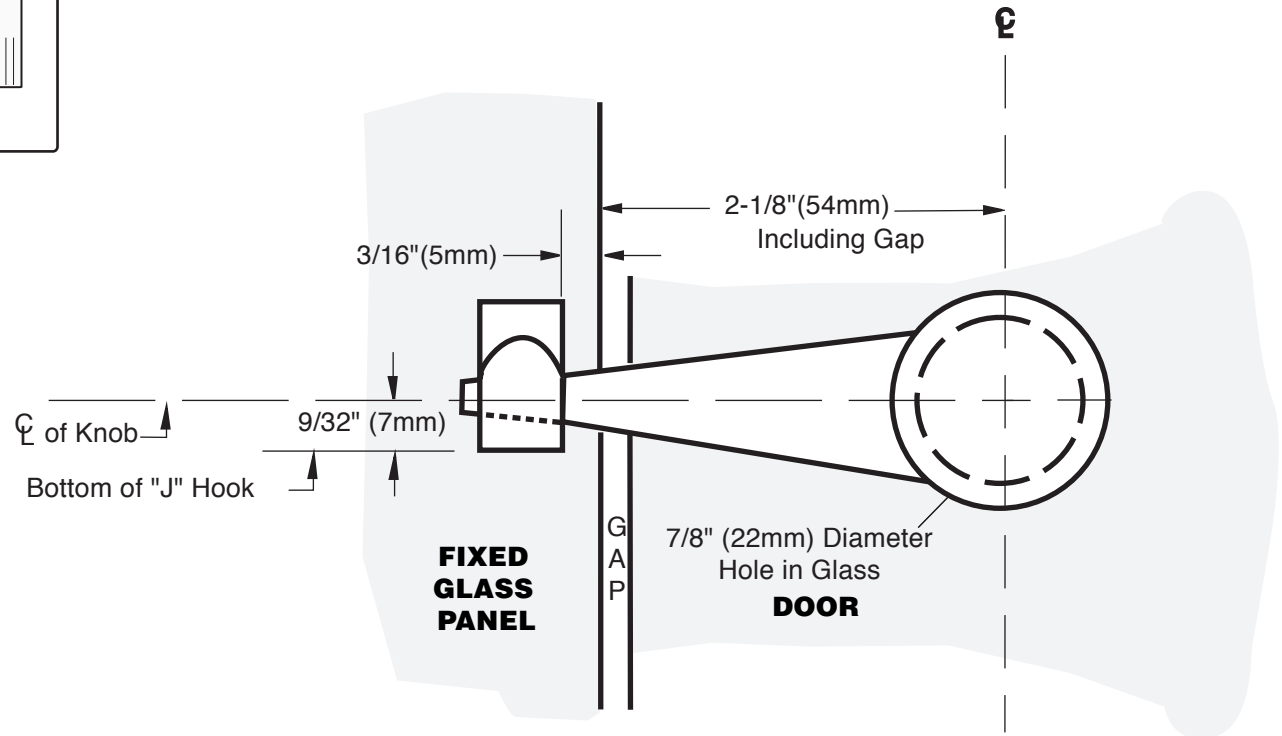


C.R. LAURENCE CO., INC.
PROFESSIONAL QUALITY



IMPORTANT:

Project measurements from the edge of the fixed glass panel.



KNOB LATCH

Glass-To-Glass Installation

CAT. No. LAT001



Latch Fabrication Instructions

(For 180° Glass-to-Glass Installations
Using the Glue-on “J” Strike)

STEP No. 1

Fabricating and placement of Knob Latch: The backset from the edge of the fixed glass to the center-line of the 7/8" (22mm) knob hole in the door is 2-1/8" (54mm). The 2-1/8" (54mm) measurement includes the width of the gap. Therefore, the gap width must be deducted from the 2-1/8" (54mm) measurement to find the center-line location of the hole from the edge of the door glass *example:* 2-1/8" (54mm) backset - 3/16" (5mm) gap=1-15/16" (49mm). 1-15/16" (49mm) will be the measurement from the edge of the door glass to the center-line of the 7/8" (22mm) hole. Drill a 7/8" (22mm) hole in the glass at the desired height and the door fabrication is complete. Loosen the Allen screw in the outside knob and turn the knob counter-clockwise until it detaches from the threaded shaft. Remove the metal grommet from the shaft and take it apart. Place a clear plastic gasket on each half and insert the grommet in the 7/8" (22mm) hole in the glass. Make sure that the half with the ball bearing in it is on the inside, and the ball bearing is in the 12:00 o'clock position. Screw the grommets together. From the inside, insert the threaded shaft through the hole in the grommet. To achieve indexing, screw the exterior knob on the threaded shaft until it is tight enough to create tension on the ball bearing. Tighten the Allen screw in the exterior knob and the installation is complete.

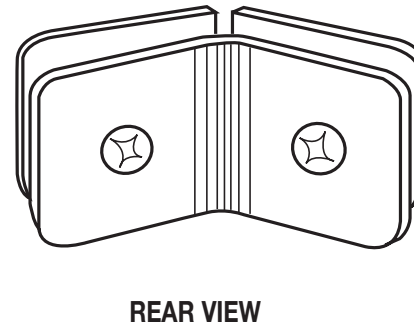
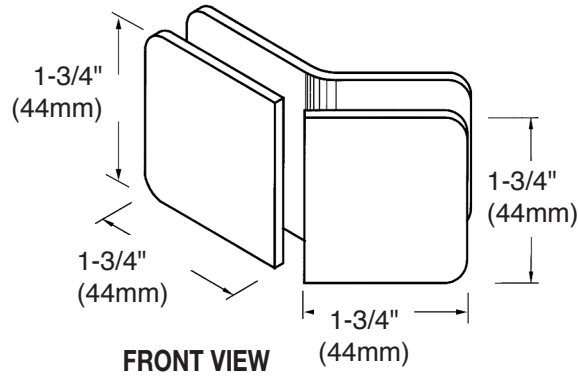
STEP No. 2

Placement of the “J” Strike on the fixed glass panel: The “J” Strike is secured to the fixed glass panel with Water Clear Ultra-Violet Cure Adhesive Cat. No. UV349. To determine the location of the “J” Strike on the fixed panel, install the shower door and adjust it to its final position. Project the horizontal center-line of the knob onto the fixed panel. Draw another horizontal line 9/32" (7mm) below the center-line. This will be the line you set the bottom of the “J” Strike on. Inset the vertical edge of the “J” Strike 3/16" (5mm) in from the edge of the fixed glass panel. This is the location that the “J” Strike will be glued. Apply a small amount of UV349 Adhesive to the back side of the “J” Strike, and place it on the glass matching the predetermined markings. Wiggle it around to allow excess adhesive to flow out. When the “J” Strike is in position, turn on the UV Light and cure the adhesive from the backside of the glass. NOTE: Different UV Lights have different intensities and cure the the adhesive faster or slower depending on the intensity. We suggest you do a test run on your first application. Take a nut or other metal object and apply the adhesive to it. Apply it to a scrap piece of glass and radiate it with your UV Light. This will tell you how long it takes to cure the adhesive.



C.R. LAURENCE CO., INC.
PROFESSIONAL QUALITY

GLASS CLAMPS
135° Glass Clamp
CAT. No. GCB135

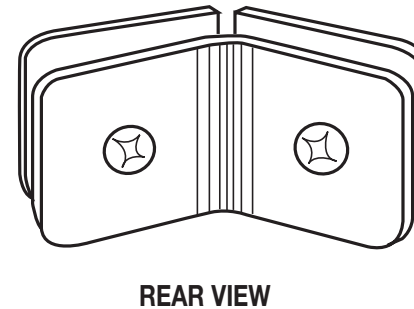
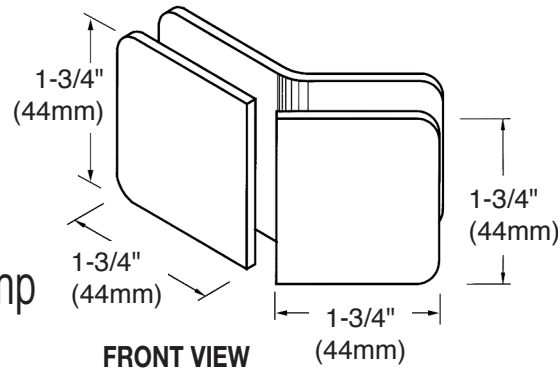


Specifications:

Material: Solid brass
Glass Thickness Range: 5/16" (8mm) to 1/2" (12mm)
Hole Size Required: 5/8" (16mm) or 3/4" (19mm)
Includes: Mounting screws and gaskets

Template Shown on Next Page

GLASS CLAMPS
Junior 135° Glass Clamp
CAT. No. GCB635

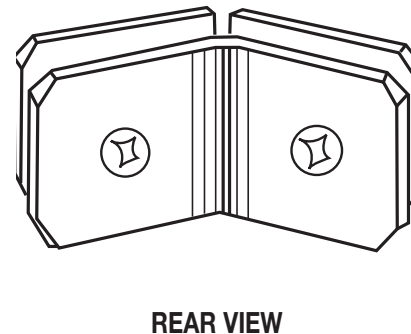
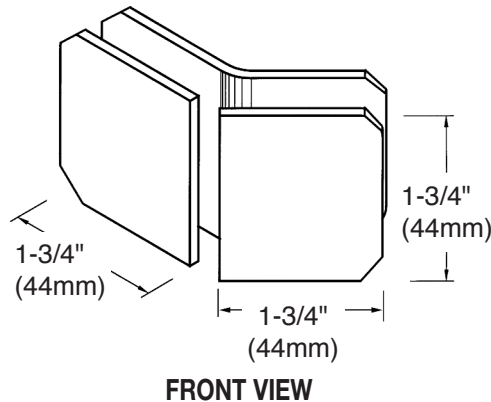


Specifications:

Material: Solid brass
Glass Thickness: 1/4" (6mm)
Hole Size Required: 5/8" (16mm) or 3/4" (19mm)
Includes: Mounting screws and gaskets

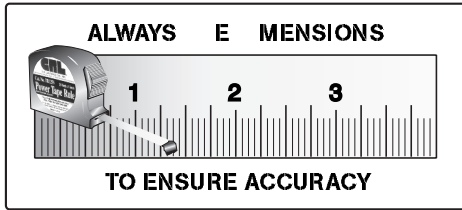
Template Shown on Next Page

GLASS CLAMPS
Monaco 135° Glass Clamp
CAT. No. M0635



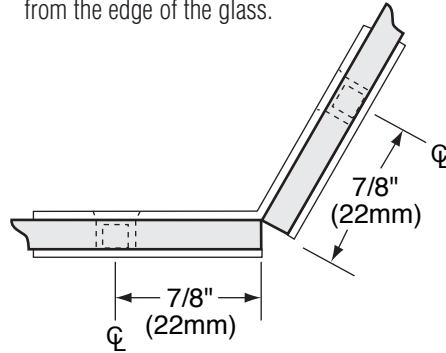
Specifications:

Material: Solid brass
Glass Thickness: 1/4" (6mm) to 5/16" (8mm)
Hole Size Required: 5/8" (16mm) or 3/4" (19mm)
Includes: Mounting screws and gaskets



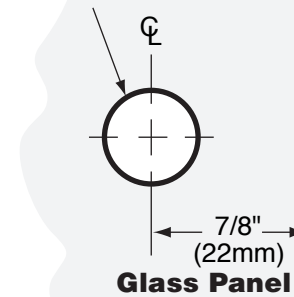
TYPICAL INSTALLATION

Important: Project measurements from the edge of the glass.

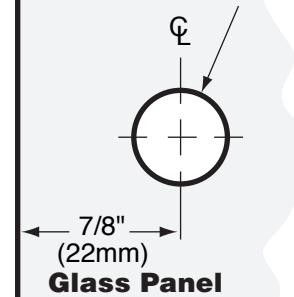


TEMPLATE OPTION FOR SQUARE CUT GLASS

5/8" (16mm) or 3/4" (19mm) Diameter Hole



5/8" (16mm) or 3/4" (19mm) Diameter Hole



GLASS CLAMPS

THE TEMPLATE OPTIONS ON THIS PAGE APPLIES

TO THE FOLLOWING CLAMPS:

135° Glass Clamp

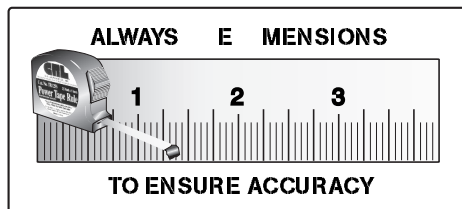
CAT. No. **GCB135**

Junior 135° Glass Clamp

CAT. No. **GCB635**

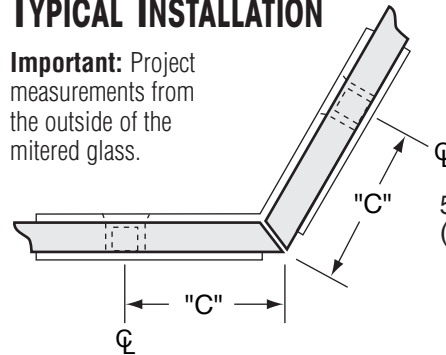
Monaca Glass Clamp

CAT. No. **M0635**



TYPICAL INSTALLATION

Important: Project measurements from the outside of the mitered glass.



Glass Thickness

"C" Measurement

1/4" (6mm)

1" (25mm)

5/16" (8mm)

1-1/16" (27mm)

3/8" (10mm)

1-1/16" (27mm)

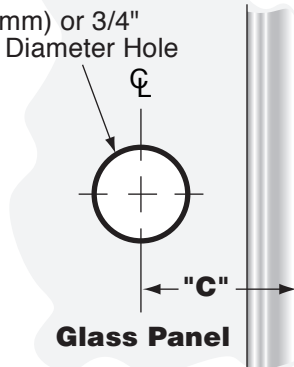
1/2" (12mm)

1-1/8" (29.5mm)

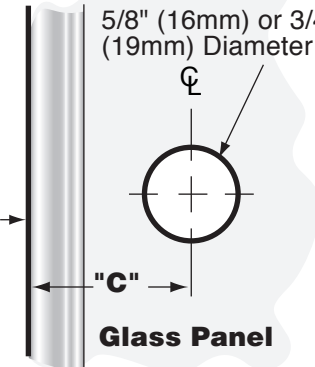
*From outside edge of miter

TEMPLATE OPTION FOR 22-1/2° MITERED GLASS

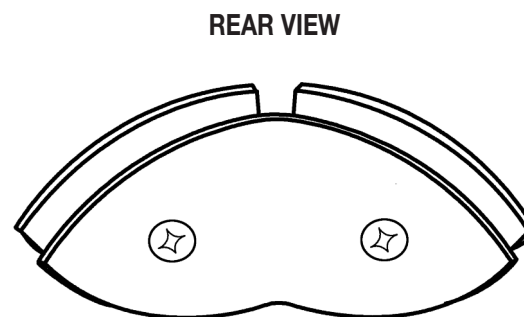
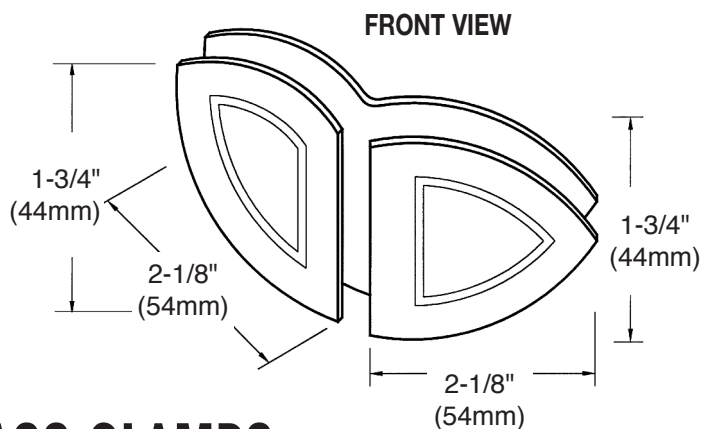
5/8" (16mm) or 3/4" (19mm) Diameter Hole



5/8" (16mm) or 3/4" (19mm) Diameter Hole



Outside Edge of Miter



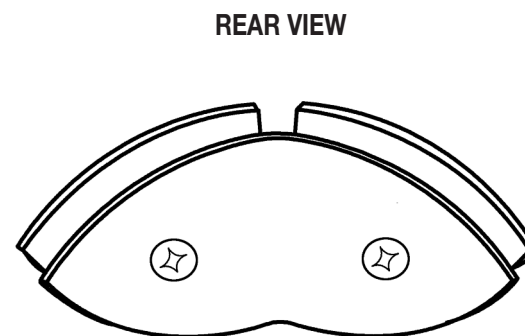
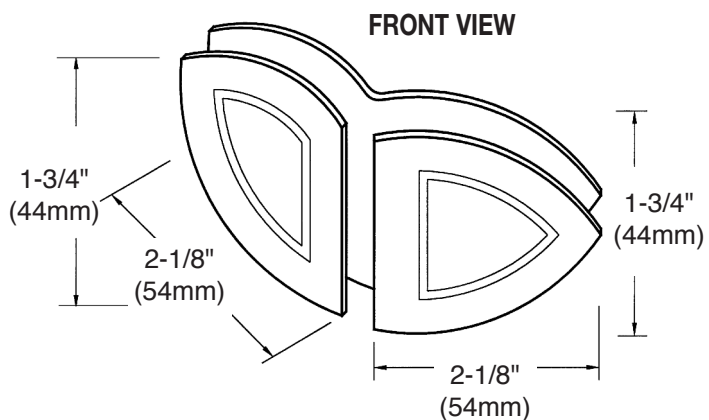
Specifications:

Material: Solid brass
Glass Thickness Range: 5/16" (8mm) to 1/2" (12mm)
Hole Size Required: 5/8" (16mm) or 3/4" (19mm)
Includes: Mounting screws and gaskets

GLASS CLAMPS

135° Cathedral Style
CAT. No. GCB235

Template Shown on Next Page



Specifications:

Material: Solid brass
Glass Thickness: 1/4" (6mm)
Hole Size Required: 5/8" (16mm) or 3/4" (19mm)
Includes: Mounting screws and gaskets

GLASS CLAMPS

135° Junior Cathedral Style
CAT. No. GCB6235

Template Shown on Next Page

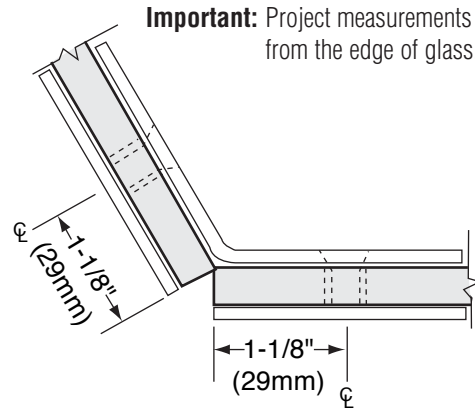
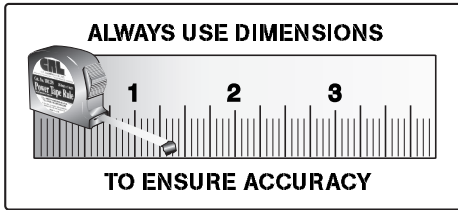
4X-15



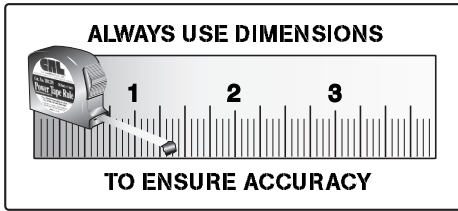
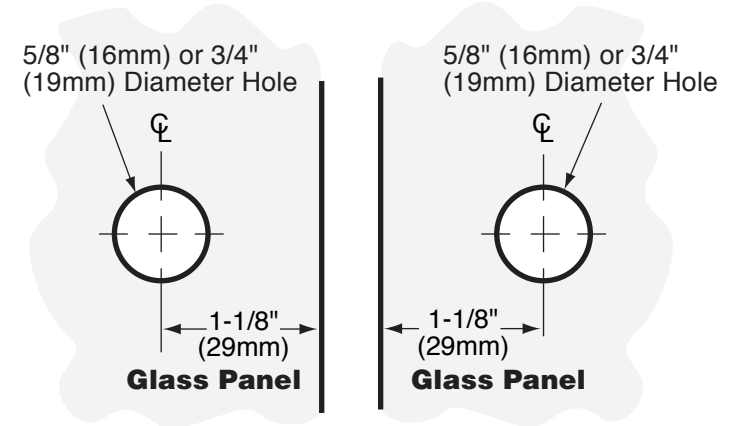
C.R. LAURENCE CO., INC.
PROFESSIONAL QUALITY

TYPICAL INSTALLATION

TEMPLATE OPTION FOR SQUARE CUT GLASS

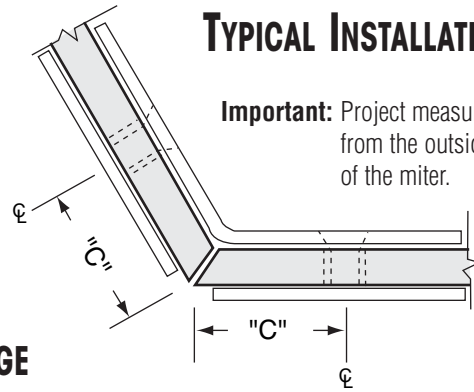


Important: Project measurements from the edge of glass.

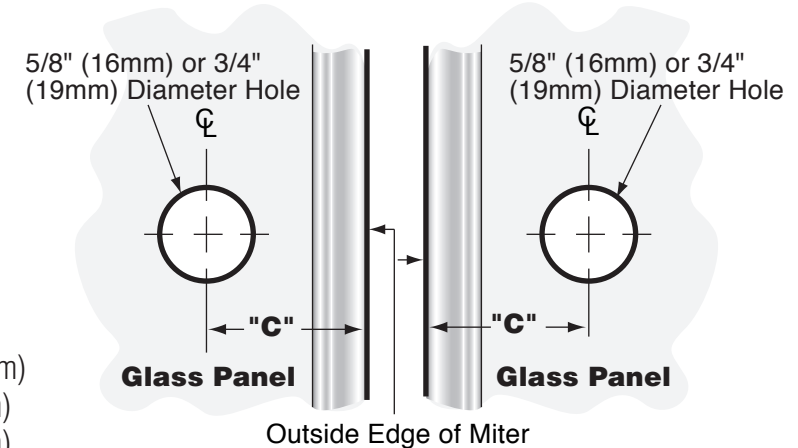


TYPICAL INSTALLATION

TEMPLATE OPTION FOR 22-1/2° MITERED GLASS



Important: Project measurements from the outside edge of the miter.



GLASS CLAMPS

THE TEMPLATE OPTIONS ON THIS PAGE APPLY TO THE CLAMPS BELOW

Cathedral Style 135° Glass Clamp

CAT. No. GCB235

Junior Cathedral Style 135° Glass Clamp

CAT. No. GCB6235

Glass Thickness	"C"* Measurement
1/4" (6mm)	1-3/16" (30mm)
5/16" (8mm)	1-1/4" (32mm)
3/8" (10mm)	1-1/4" (32mm)
1/2" (12mm)	1-5/16" (34mm)

*From outside edge of miter

C.R. Laurence Co., Inc.
crlaurence.com

For technical assistance in the United States call toll free (800) 421-6144; from Canada call toll free (877) 421-6144; Outside the U.S. and Canada call (323) 588-1281. Ask for Tech Sales at Extension 7740. Toll free fax (800) 458-7496.

© Copyright 2005, C.R. Laurence Co., Inc_SDT21_U5

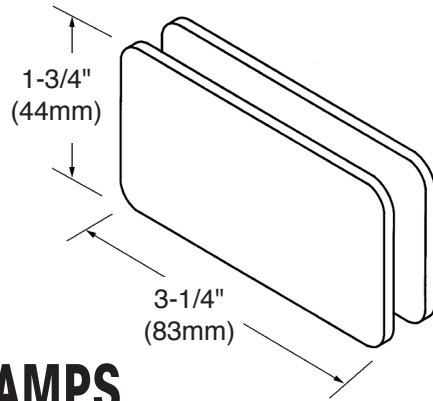


C.R. LAURENCE CO., INC.
PROFESSIONAL QUALITY

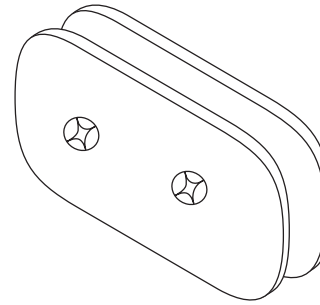
Specifications:

Material: Solid brass
Glass Thickness Range: 5/16" (8mm) to 1/2" (12mm)
Hole Size Required: See Templates
Includes: Mounting screws and gaskets

FRONT VIEW



REAR VIEW



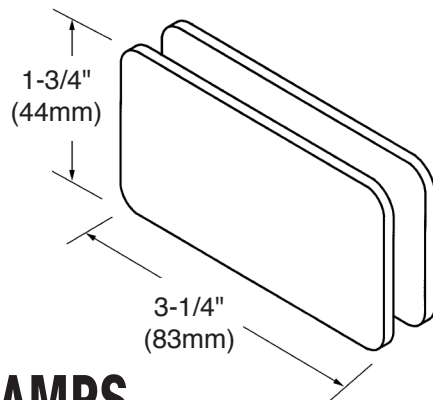
GLASS CLAMPS

180° Single Stud

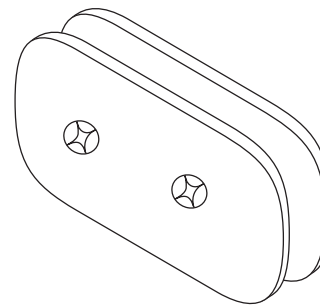
CAT. No. **GCB180**

Template Shown on Next Page

FRONT VIEW



REAR VIEW



Specifications:

Material: Solid brass
Glass Thickness: 1/4" (6mm)
Hole Size Required: See Templates
Includes: Mounting screws and gaskets

GLASS CLAMPS

Junior 180° Single Stud

CAT. No. **GCB680**

Template Shown on Next Page

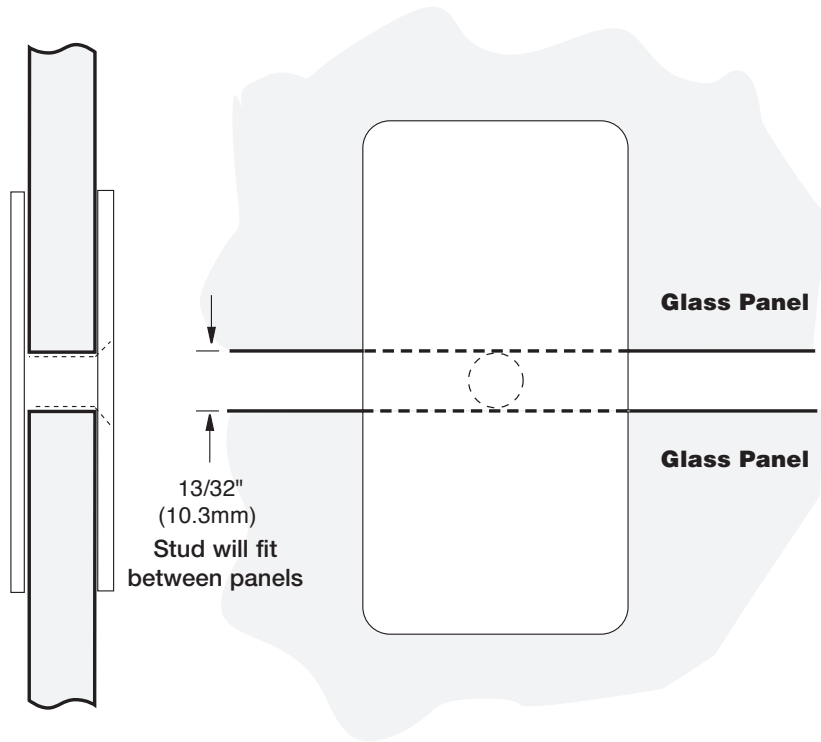
4X-17



TYPICAL INSTALLATION

TEMPLATE OPTION FOR SQUARE CUT GLASS

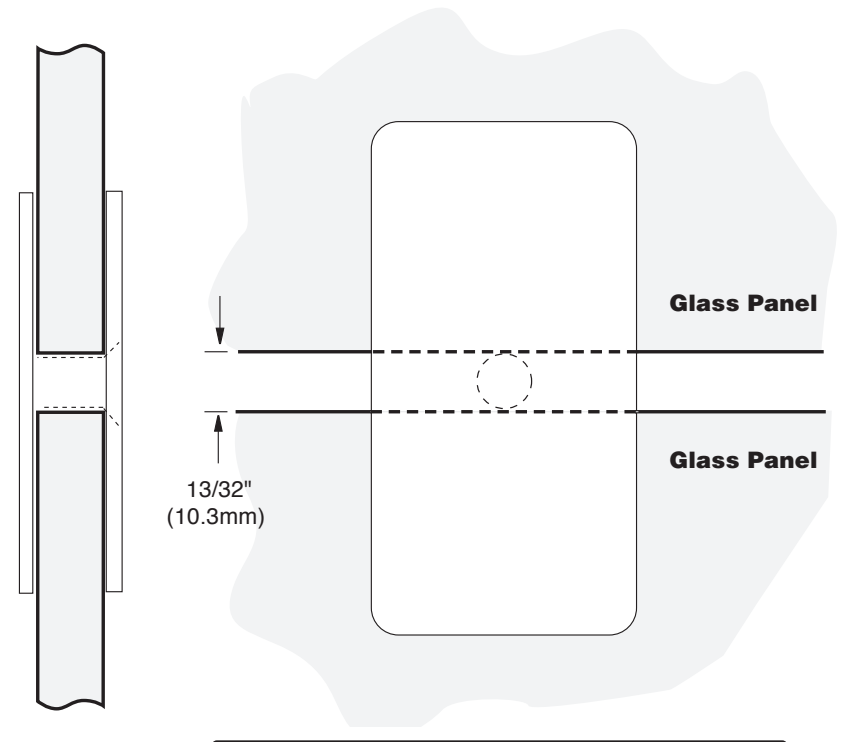
Important: Project measurements from the edge of the glass.



TYPICAL INSTALLATION

TEMPLATE OPTION FOR NOTCHED GLASS

Important: Project measurements from the edge of the glass.



GLASS CLAMPS

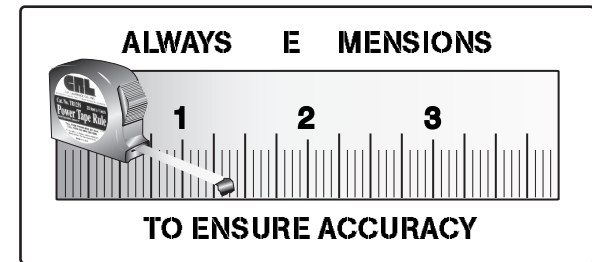
THE TEMPLATE OPTIONS ON THIS PAGE APPLY TO THE CLAMPS BELOW:

180° Single Stud

Junior 180° Single Stud

CAT. No. GCB180

CAT. No. GCB680





C.R. LAURENCE CO., INC.
PROFESSIONAL QUALITY

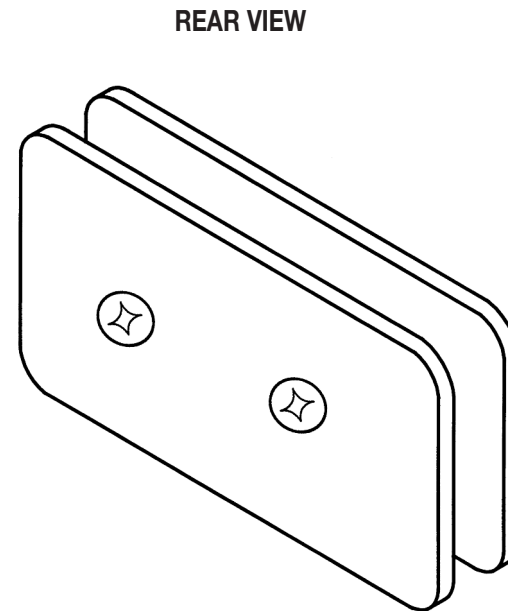
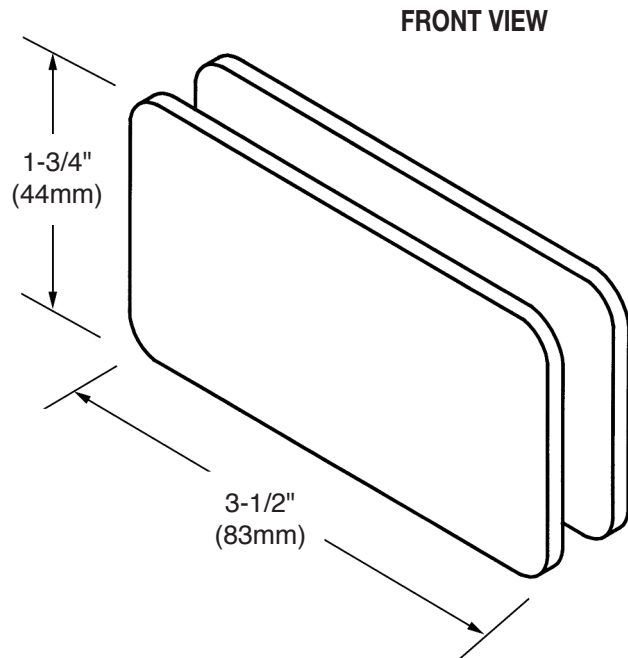
Specifications:

Material: Solid brass

Glass Thickness Range: 5/16" (8mm) to 1/2" (12mm)

Hole Size Required: 5/8" (16mm) or 3/4" (19mm)

Includes: Mounting screws and gaskets



GLASS CLAMPS

180° Double Stud

CAT. No. GCB184

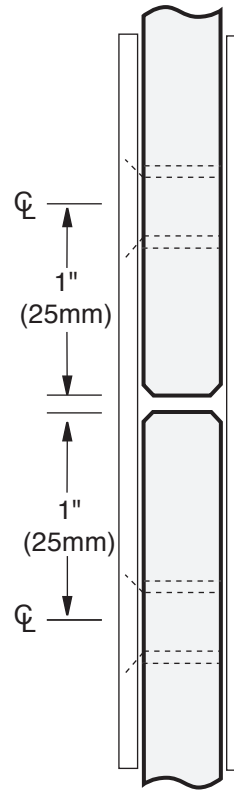
Template Shown on Next Page

4X-19



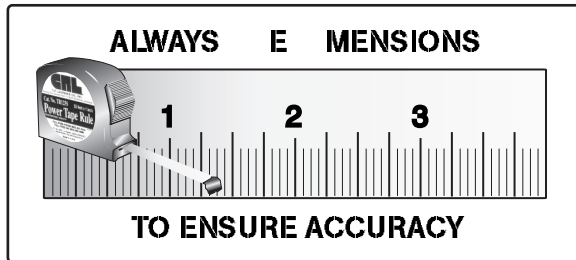
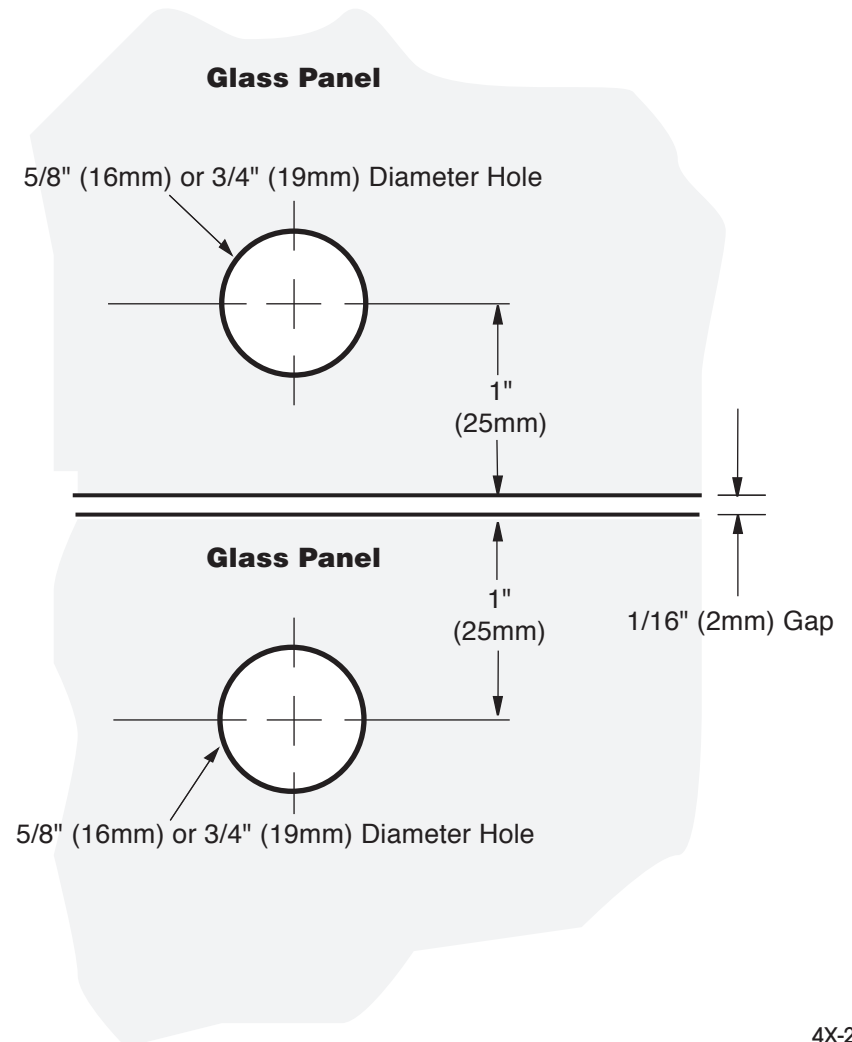
C.R. LAURENCE CO., INC.
PROFESSIONAL QUALITY

TYPICAL INSTALLATION



TEMPLATE FOR SQUARE CUT GLASS

Important: Project measurements from the edge of the glass.



GLASS CLAMPS

180° Double Stud

CAT. No. GCB184

C.R. Laurence Co., Inc. For technical assistance in the United States call toll free (800) 421-6144; from Canada call toll free (877) 421-6144; Outside the U.S. and Canada call (323) 588-1281. Ask for Tech Sales at Extension 7740. Toll free fax (800) 458-7496.
 crlaurence.com

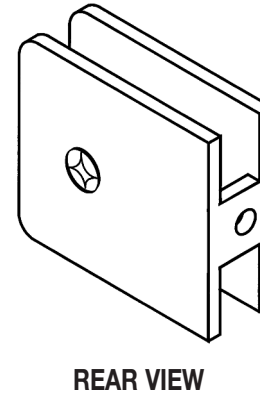
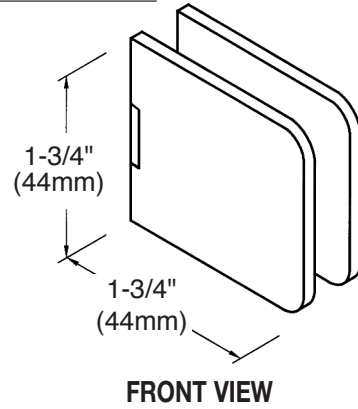


C.R. LAURENCE CO., INC.
PROFESSIONAL QUALITY

GLASS CLAMPS

Junior Fixed Panel U-Clamp

CAT. No. UC66



Specifications:

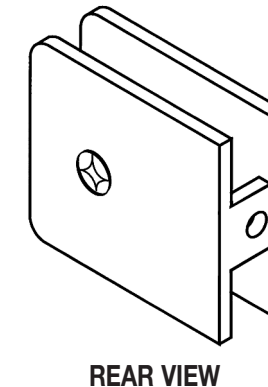
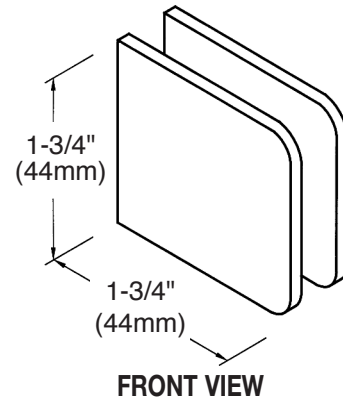
Material: Solid brass
Glass Thickness: 1/4" (6mm)
Hole Size Required: 5/8" (16mm) or 3/4" (19mm)
Includes: Mounting screws and gaskets

Template Shown on Next Page

GLASS CLAMPS

Fixed Panel U-Clamp

CAT. No. UC77



Specifications:

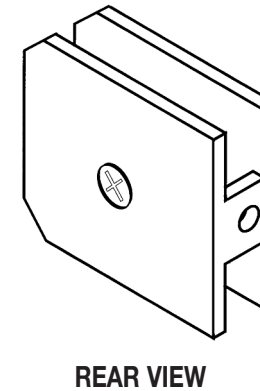
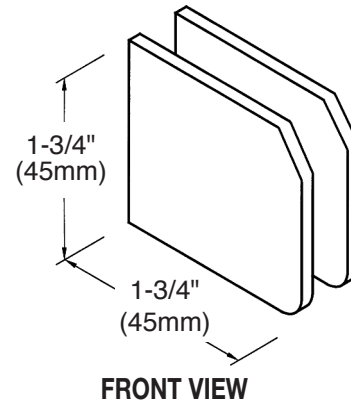
Material: Solid brass
Glass Thickness Range: 5/16" (8mm) to 1/2" (12mm)
Hole Size Required: 5/8" (16mm) or 3/4" (19mm)
Includes: Mounting screws and gaskets
Note: An additional set of gaskets is required for 5/16" (8mm) glass

Template Shown on Next Page

GLASS CLAMPS

Monaco Glass Clamp

CAT. No. M0638



Specifications:

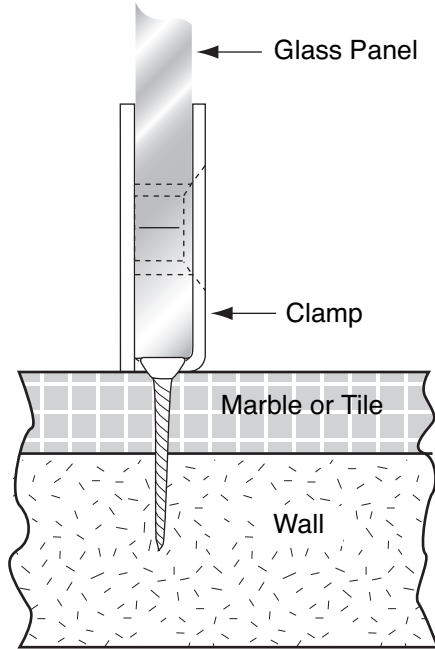
Material: Solid brass
Glass Thickness Range: 1/4" (6mm) to 5/16" (8mm)
Hole Size Required: 5/8" (16mm) or 3/4" (19mm)
Includes: Mounting screws and gaskets

Template Shown on Next Page



C.R. LAURENCE CO., INC.
 PROFESSIONAL QUALITY

TYPICAL INSTALLATION



END VIEW

GLASS CLAMPS

Junior Fixed Panel U-Clamp

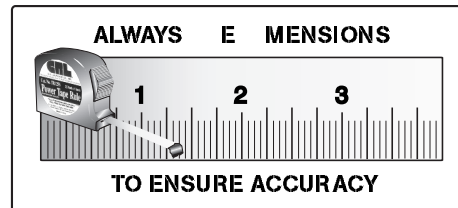
CAT. No. UC66

Fixed Panel U-Clamp

CAT. No. UC77

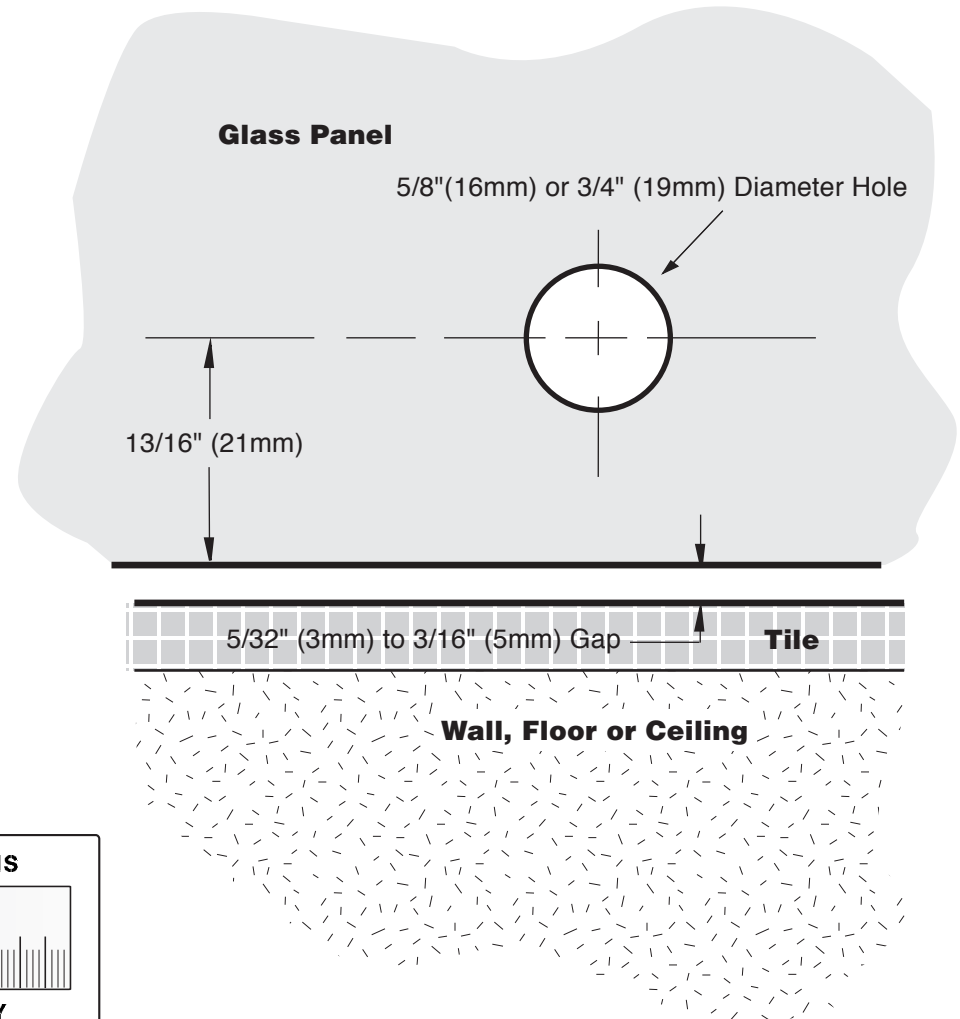
Monaca Glass Clamp

CAT. No. M0638



TEMPLATE

Important: Project measurements from the edge of the glass.



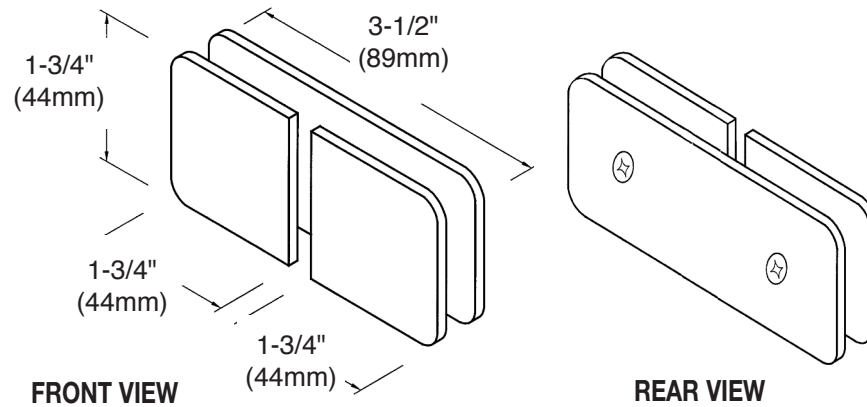


C.R. LAURENCE CO., INC.
PROFESSIONAL QUALITY

GLASS CLAMPS

180° Split Face
(Glass-to-Glass Application)

CAT. No. GCB182



Note: The GCB182 and M0682 Clamp shown on this page can also be used in a wall-to-glass "Y" inline application. For information on this see pages 4X-23 and 4X-24.

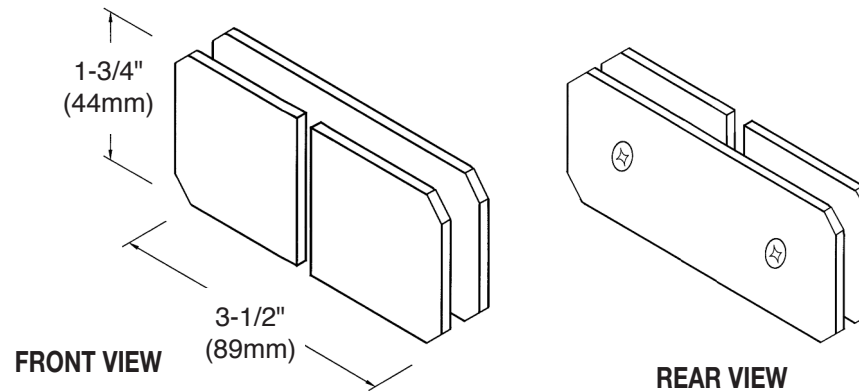
Specifications:

Material: Solid brass
Glass Thickness Range: 5/16" (8mm) to 1/2" (12mm)
Hole Size Required: 5/8" (16mm) or 3/4" (19mm)
Includes: Mounting screws and gaskets

GLASS CLAMPS

180° Monaco Split Face
(Glass-to-Glass Application)

CAT. No. M0682



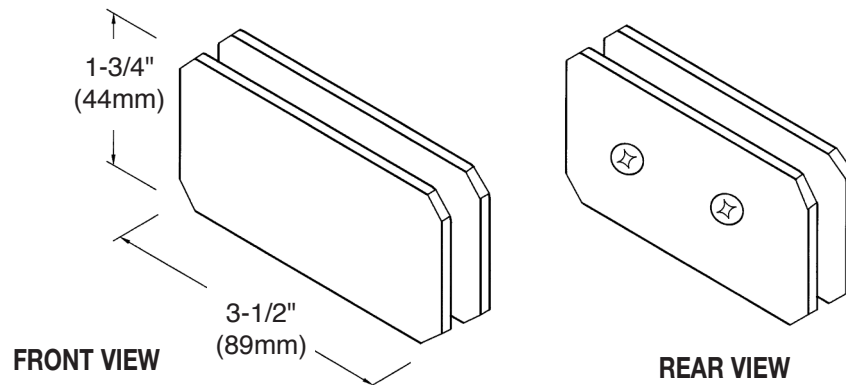
Specifications:

Material: Solid brass
Glass Thickness Range: 1/4" (6mm) to 5/16" (8mm)
Hole Size Required: 5/8" (16mm) or 3/4" (19mm)
Includes: Mounting screws and gaskets

GLASS CLAMPS

180° Monaco Double Stud

CAT. No. M0684



Specifications:

Material: Solid brass
Glass Thickness Range: 1/4" (6mm) to 5/16" (8mm)
Hole Size Required: 5/8" (16mm) or 3/4" (19mm)
Includes: Mounting screws and gaskets

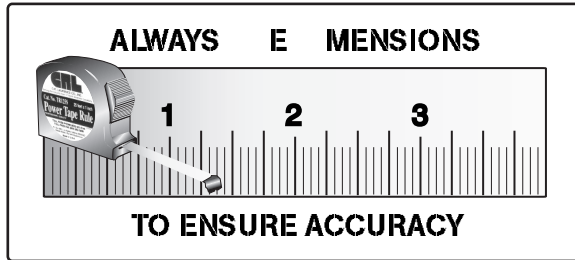
Template Shown on Next Page

4X-21



Note: The Clamp shown on this page can also be used in a wall-to-glass "Y" inline application. For information on this see pages 4X-23 and 4X-24.

TYPICAL INSTALLATION



GLASS CLAMPS

180° Split Face (Glass-to-Glass Application)

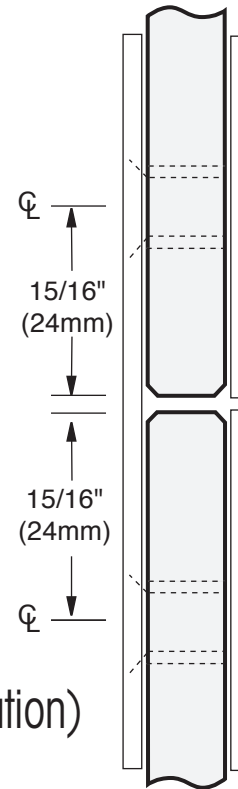
CAT. No. GCB182

180° Monaco Split Face (Glass-to-Glass Application)

CAT. No. M0682

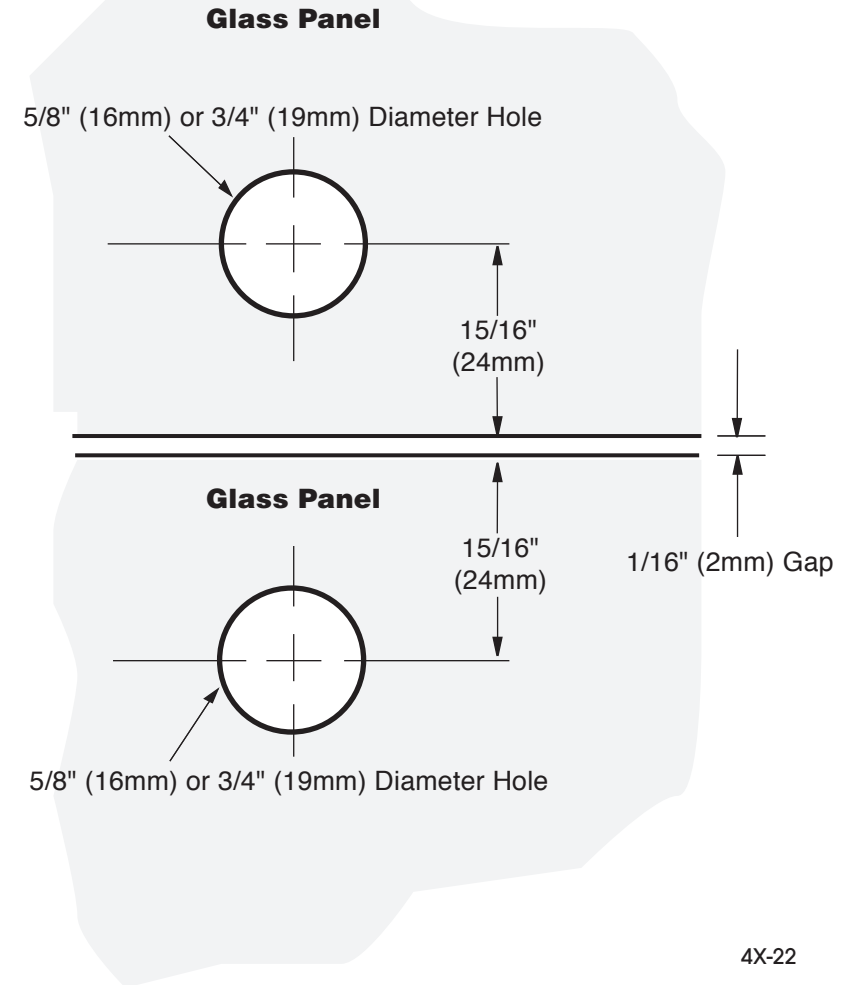
180° Monaco Double Stud

CAT. No. M0684



TEMPLATE FOR 180° GLASS-TO-GLASS APPLICATION

Important: Project measurements from the edge of the glass.





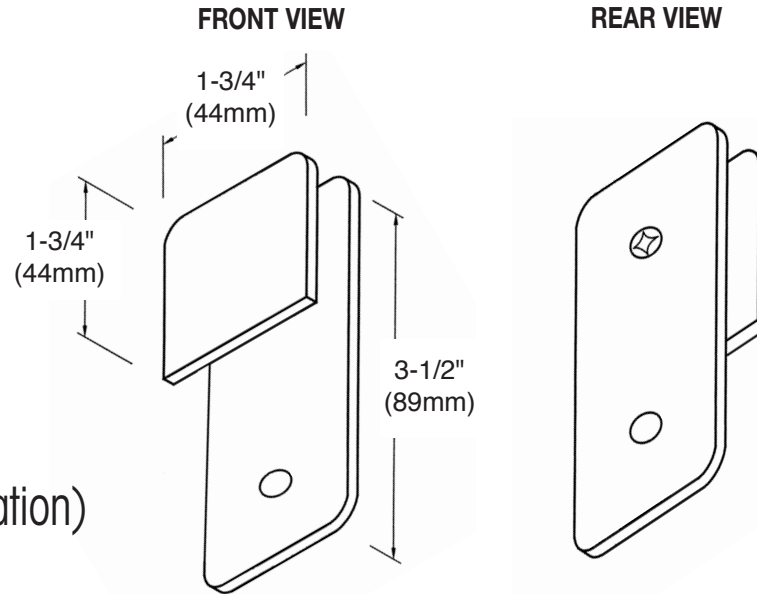
C.R. LAURENCE CO., INC.
PROFESSIONAL QUALITY

Note: The clamp shown on this page can also be used in a glass-to-glass application. For information on this see pages 4X-21 and 4X-22.

GLASS CLAMPS

180° Split Face Glass Clamp
 ("Y" Inline Wall-to-Glass Application)

CAT. No. GCB182



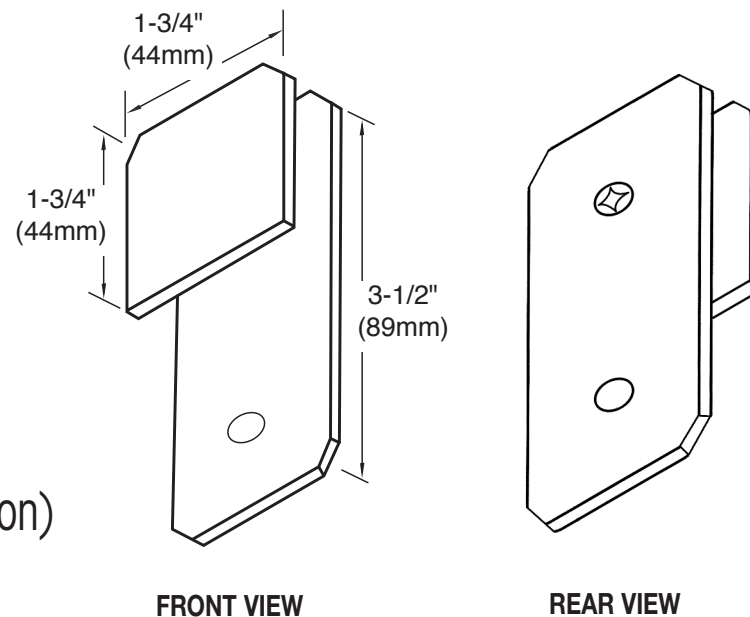
Specifications:

Material: Solid brass
Glass Thickness Range: 5/16" (8mm) to 1/2" (12mm)
Hole Size Required: 5/8" (16mm) or 3/4" (19mm)
Includes: Mounting screws and gaskets

GLASS CLAMPS

180° Monaco Split Face Clamp
 ("Y" Inline Wall-to-Glass Application)

CAT. No. M0682



Specifications:

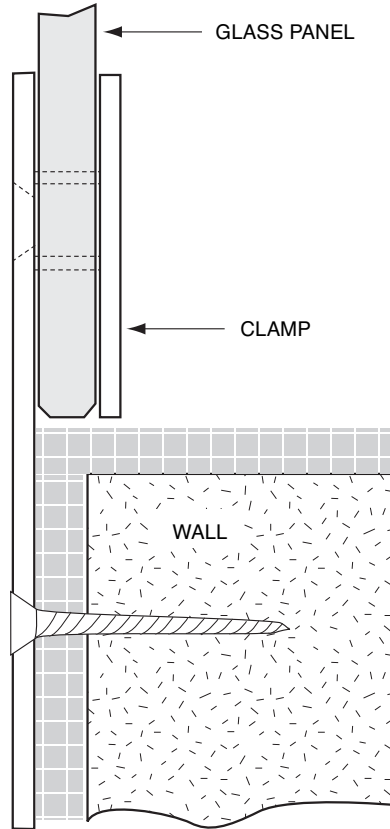
Material: Solid brass
Glass Thickness Range: 1/4" (6mm) to 5/16" (8mm)
Hole Size Required: 5/8" (16mm) or 3/4" (19mm)
Includes: Mounting screws and gaskets

Template Shown on Next Page



Note: The clamp shown on this page can also be used in a glass-to-glass application. For information on this see pages 4X-21 and 4X-22.

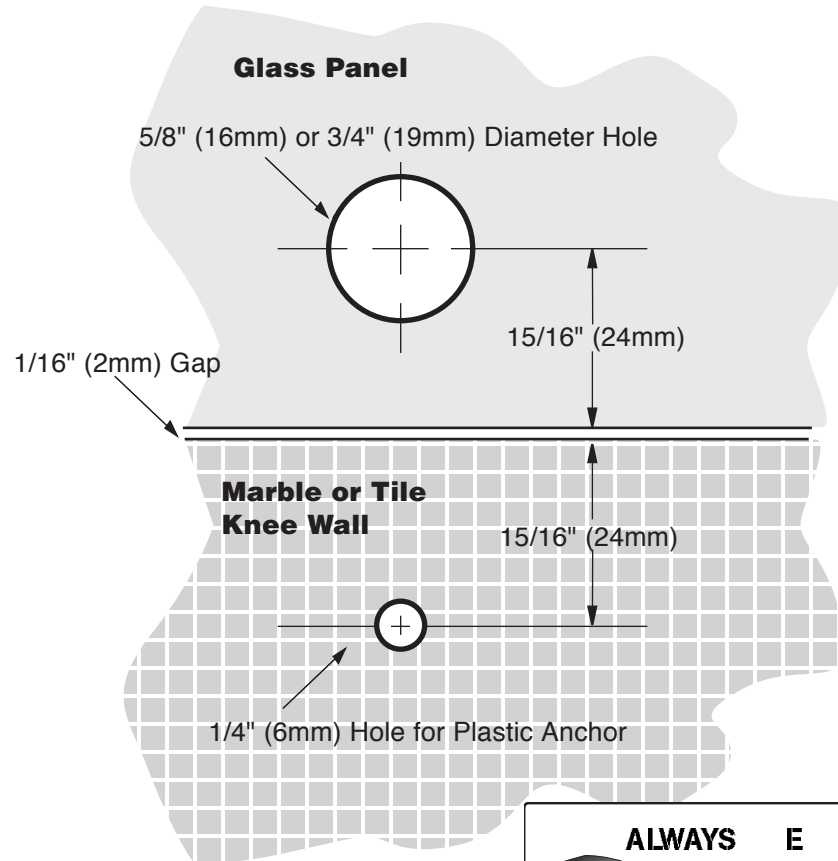
TYPICAL INSTALLATION



END VIEW

TEMPLATE FOR "Y" INLINE WALL-TO-GLASS APPLICATION

Important: Project measurements from the edge of glass.



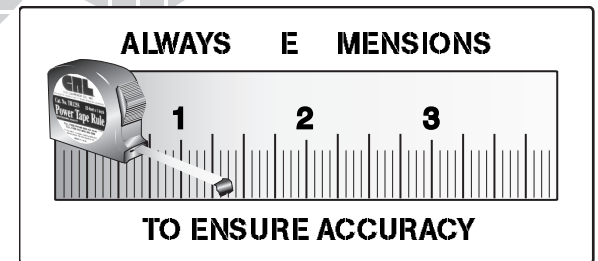
GLASS CLAMPS

180° Split Face Glass Clamp ("Y" Inline Wall-to-Glass Application)

CAT. No. GCB182

180° Monaco Split Face Clamp ("Y" Inline Wall-to-Glass Application)

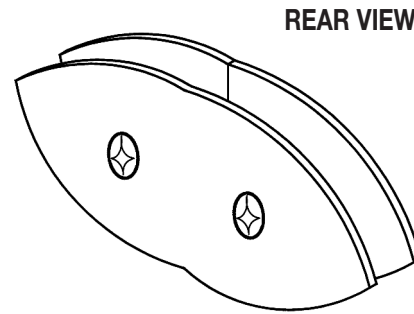
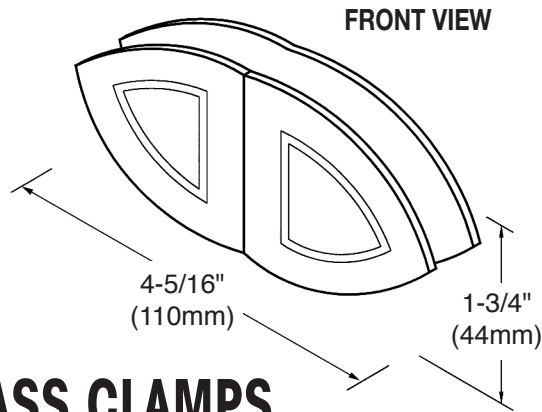
CAT. No. M0682





C.R. LAURENCE CO., INC.
PROFESSIONAL QUALITY

Note: The clamps shown on this page can also be used in a wall-to-glass "Y" inline application. For information on this see pages 4X-27 and 4X-28.



GLASS CLAMPS

Cathedral Style 180° Glass Clamp (Split Face)

CAT. No. GCB280

Specifications:

Materials: Solid brass

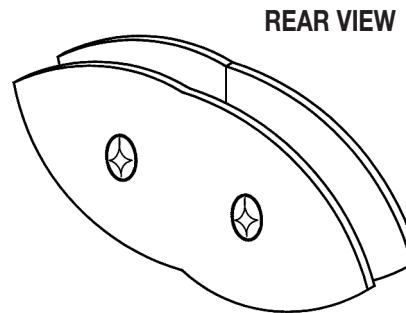
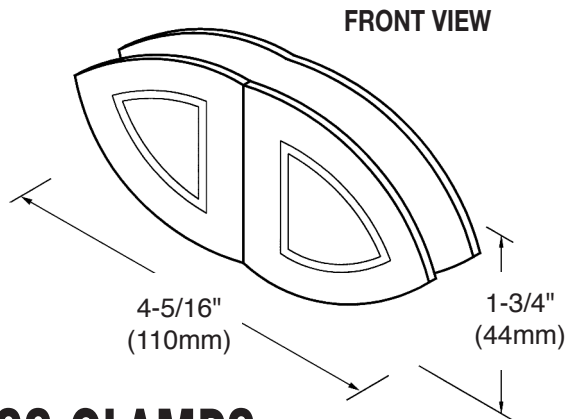
Glass Thickness Range: 5/16"(8mm) to 1/2"(12mm)

Hole Size Required: 5/8" (16mm) or 3/4" (19mm)

Includes: Mounting screws and gaskets

Note: An additional set of gaskets is required for 5/16" (8mm) glass

Template Shown on Next Page



GLASS CLAMPS

Junior Cathedral Style 180° Glass Clamp (Split Face)

CAT. No. GCB6280

Specifications:

Materials: Solid brass

Glass Thickness: 1/4" (6mm)

Hole Size Required: 5/8" (16mm) or 3/4" (19mm)

Includes: Mounting screws and gaskets

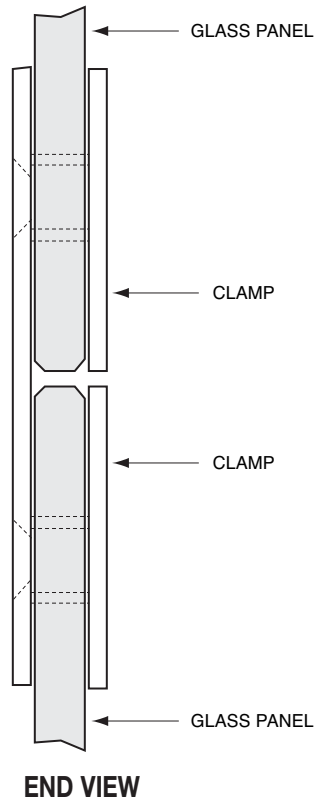
Template Shown on Next Page

4X-25



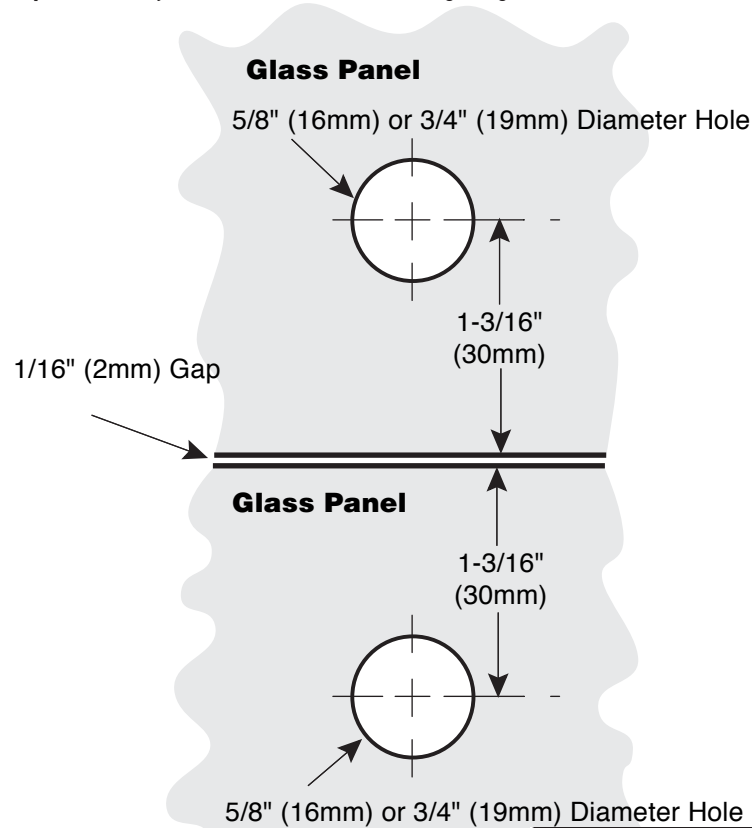
Note: The clamps shown on this page can also be used in a wall-to-glass "Y" inline application. For information on this see pages 4X-27 and 4X-28.

TYPICAL INSTALLATION



TEMPLATE FOR 180° GLASS-TO-GLASS APPLICATION

Important: Project measurements from the edge of glass.



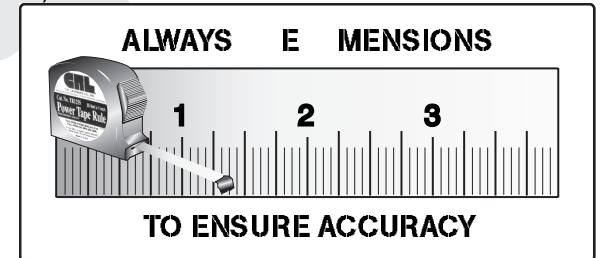
GLASS CLAMPS

Cathedral Style 180° Glass Clamp for 5/16" (8mm) to 1/2" (12mm) (Split Face)

CAT. No. GCB280

Junior Cathedral Style 180° Glass Clamp for 1/4" (6mm) (Split Face)

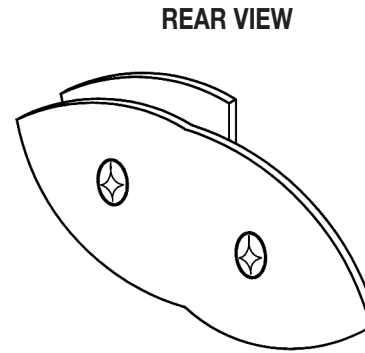
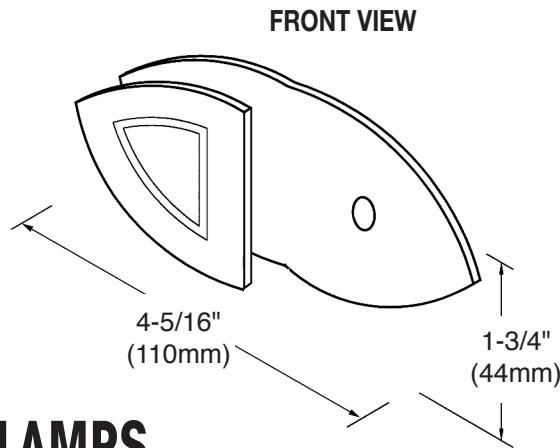
CAT. No. GCB6280





C.R. LAURENCE CO., INC.
PROFESSIONAL QUALITY

Note: The clamps shown on this page can also be used in a glass-to-glass application. For information on this see pages 4X-25 and 4X-26.



Specifications:

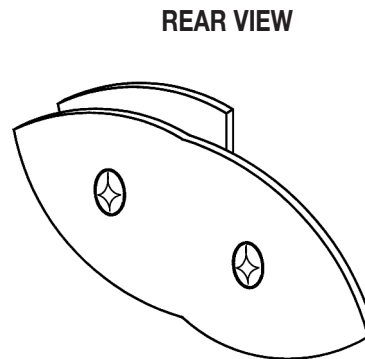
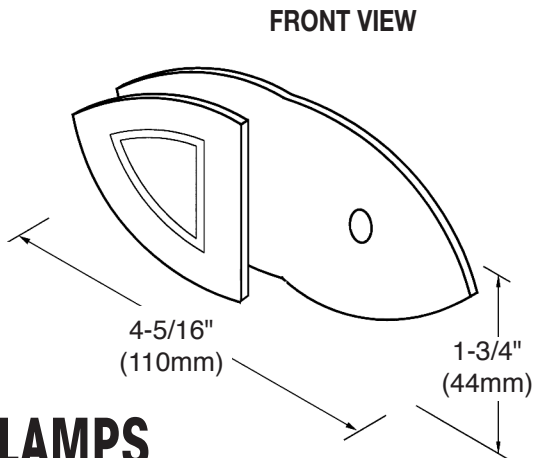
Materials: Solid brass
Glass Thickness Range: 5/16" (8mm) to 1/2" (12mm)
Hole Size Required: 5/8" (16mm) or 3/4" (19mm)
Includes: Mounting screws and gaskets
Note: An additional set of gaskets is required for 5/16" (8mm) glass

GLASS CLAMPS

Cathedral Style "Y" Inline Wall-To-Glass Clamp

CAT. No. GCB280

Template Shown on Next Page



Specifications:

Materials: Solid brass
Glass Thickness: 1/4" (6mm)
Hole Size Required: 5/8" (16mm) or 3/4" (19mm)
Includes: Mounting screws and gaskets

GLASS CLAMPS

Junior Cathedral Style "Y" Inline Wall-To-Glass Clamp

CAT. No. GCB6280

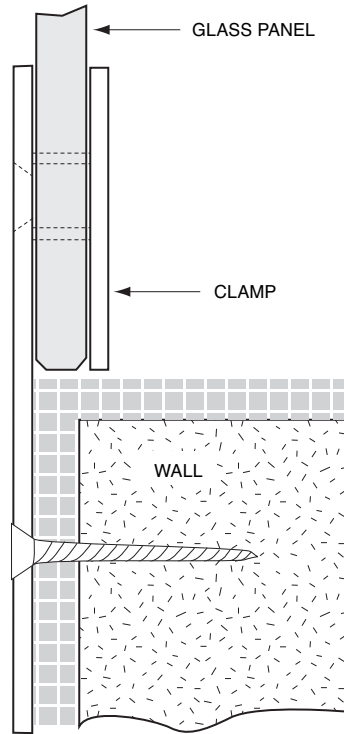
Template Shown on Next Page

4X-27



Note: The clamps shown on this page can also be used in a glass-to-glass application. For information on this see pages 4X-25 and 4X-26.

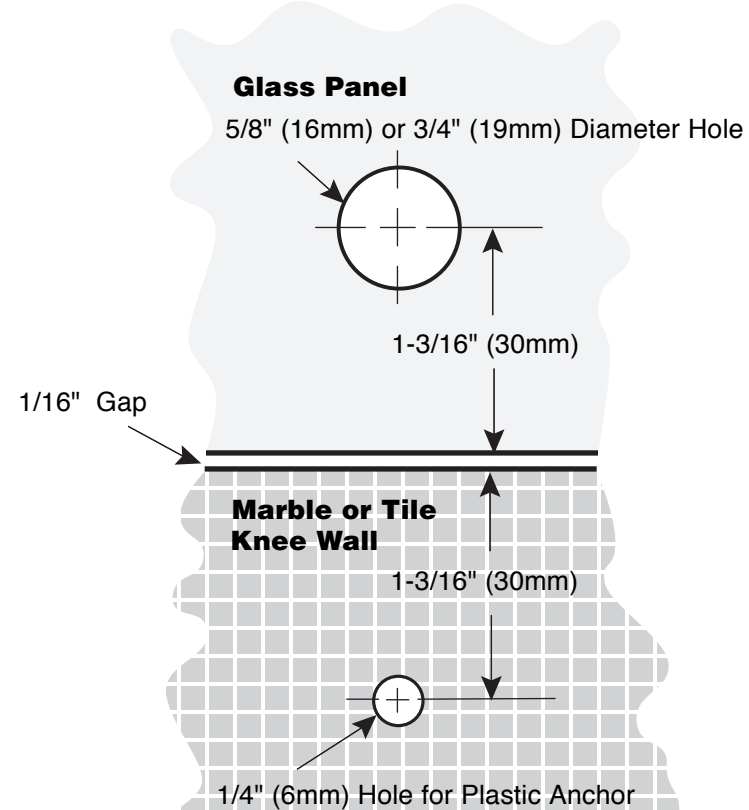
TYPICAL INSTALLATION



END VIEW

TEMPLATE FOR "Y" INLINE WALL-TO-GLASS APPLICATION

Important: Project measurements from the edge of glass.



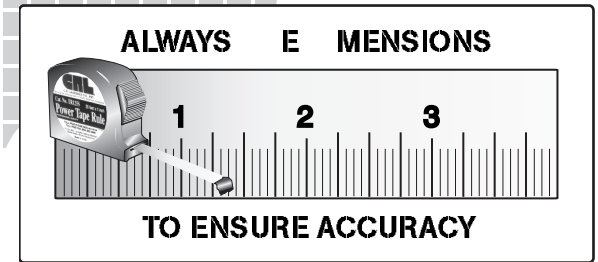
GLASS CLAMPS

Cathedral Style Inline
 Wall-To-Glass Clamp

CAT. No. GCB280

Junior Cathedral Style Inline
 Wall-To-Glass Clamp

CAT. No. GCB6280





C.R. LAURENCE CO., INC.
PROFESSIONAL QUALITY

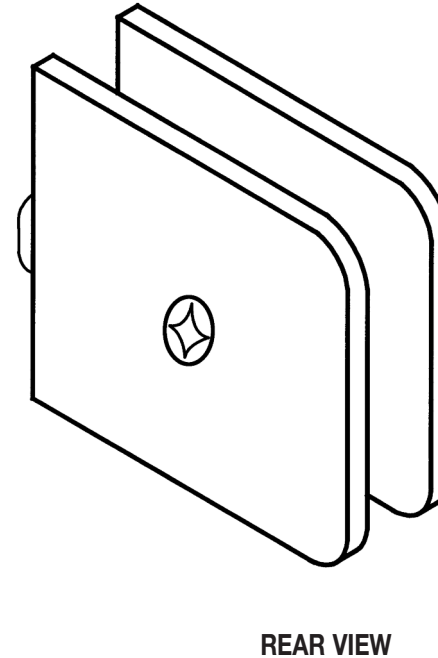
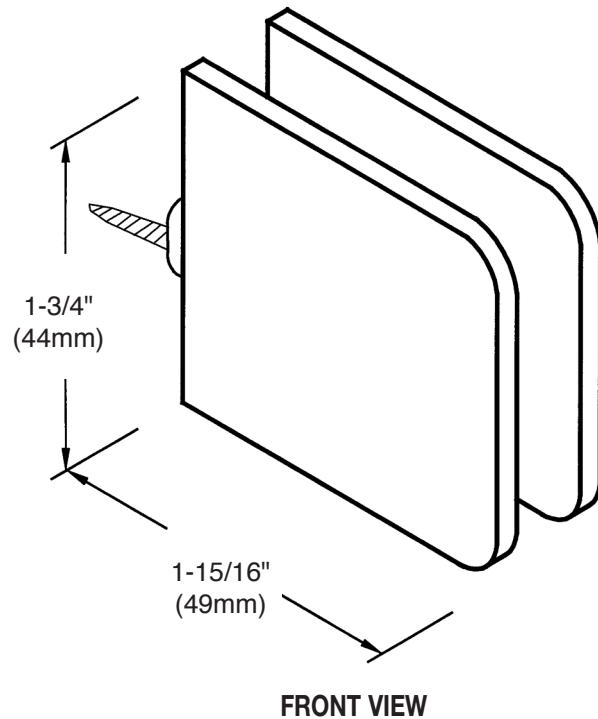
Specifications:

Material: Solid brass

Glass Thickness Range: 5/16" (8mm) to 1/2" (12mm)

Hole Size Required: 5/8" (16mm) or 3/4" (19mm)

Includes: Mounting screws and gaskets



GLASS CLAMPS

Wall Mount Movable Transom Clamp

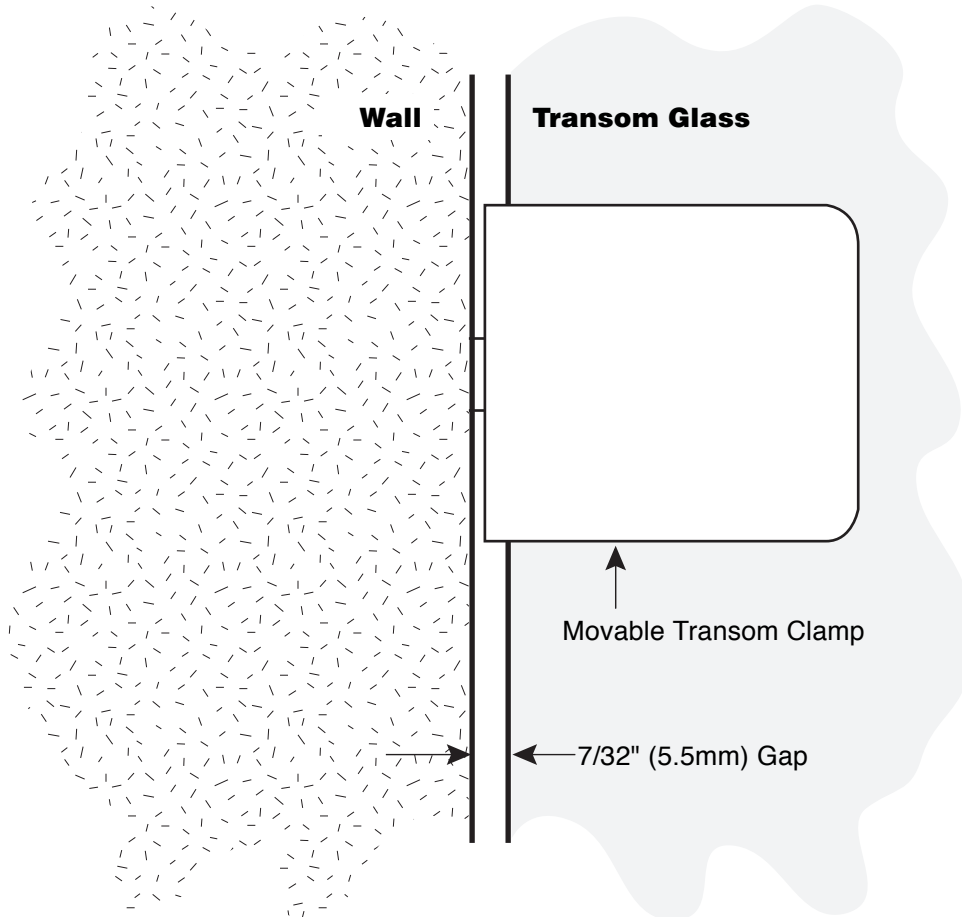
CAT. No. GCB186

Template Shown on Next Page

4X-29



TYPICAL INSTALLATION



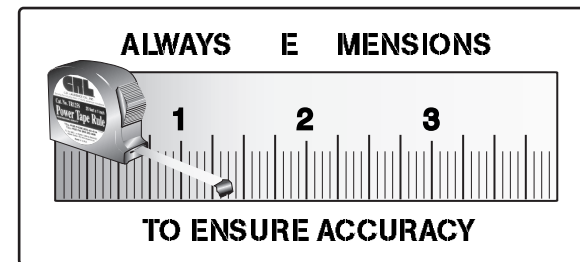
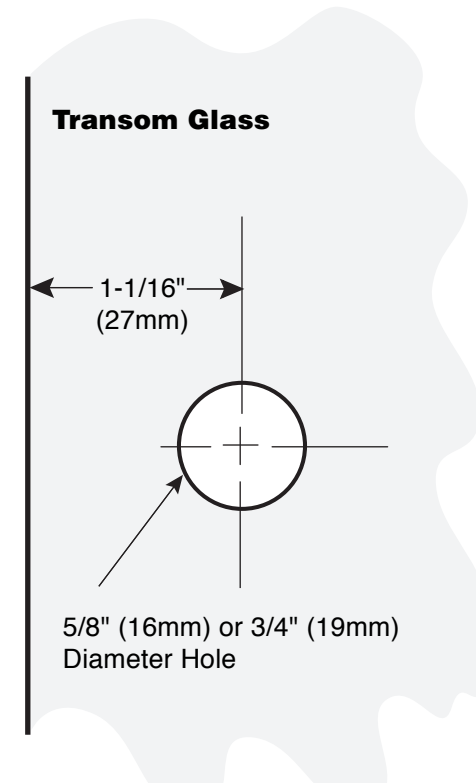
GLASS CLAMPS

Wall Mount Movable Transom Clamp

CAT. No. GCB186

TEMPLATE FOR WALL TO MOVABLE TRANSOM GLASS

Important: Project measurements from the edge of glass.





C.R. LAURENCE CO., INC.
PROFESSIONAL QUALITY

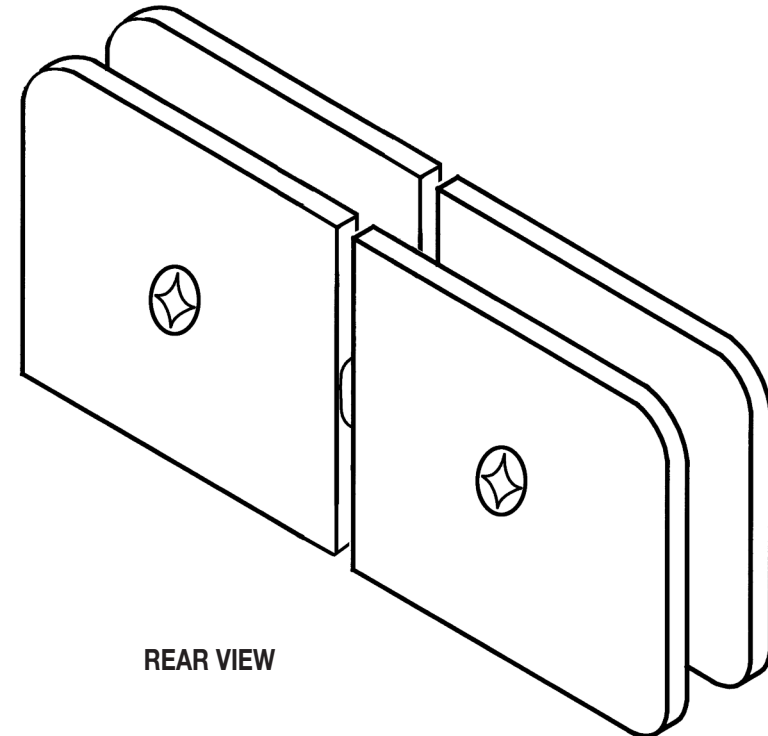
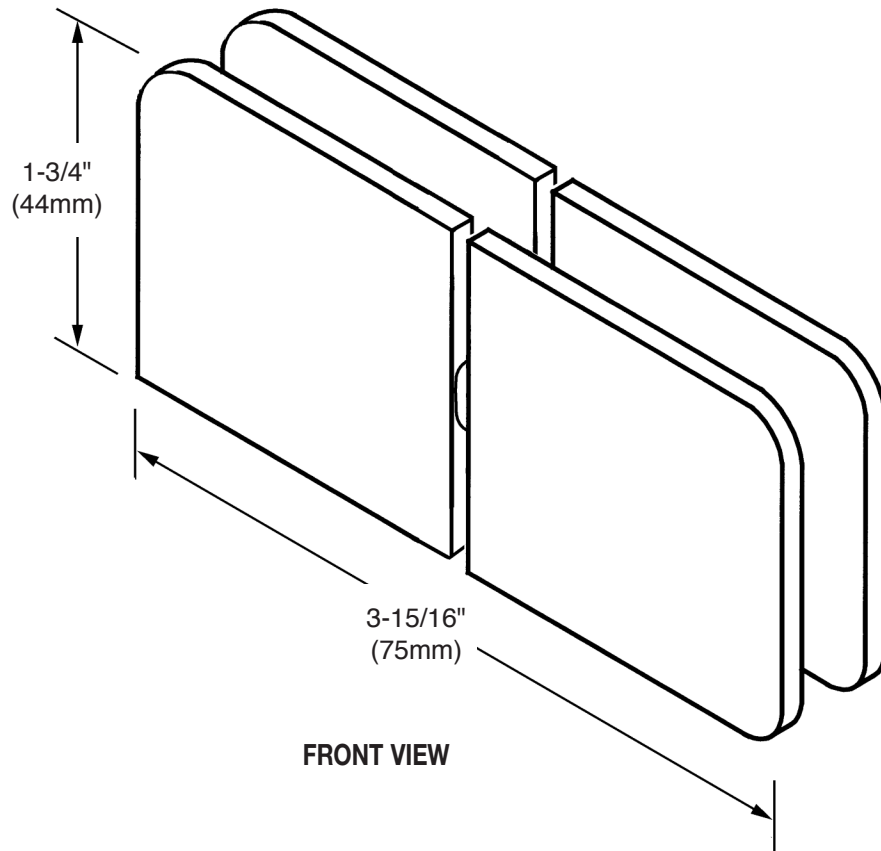
Specifications:

Material: Solid brass

Glass Thickness Range: 5/16" (8mm) to 1/2" (12mm)

Template Required: 5/8" (16mm) or 3/4" (19mm) hole
for fixed panel, notch for transom

Includes: Mounting screws and gaskets



GLASS CLAMPS

Glass-to-Glass Mount Movable Transom Clamp

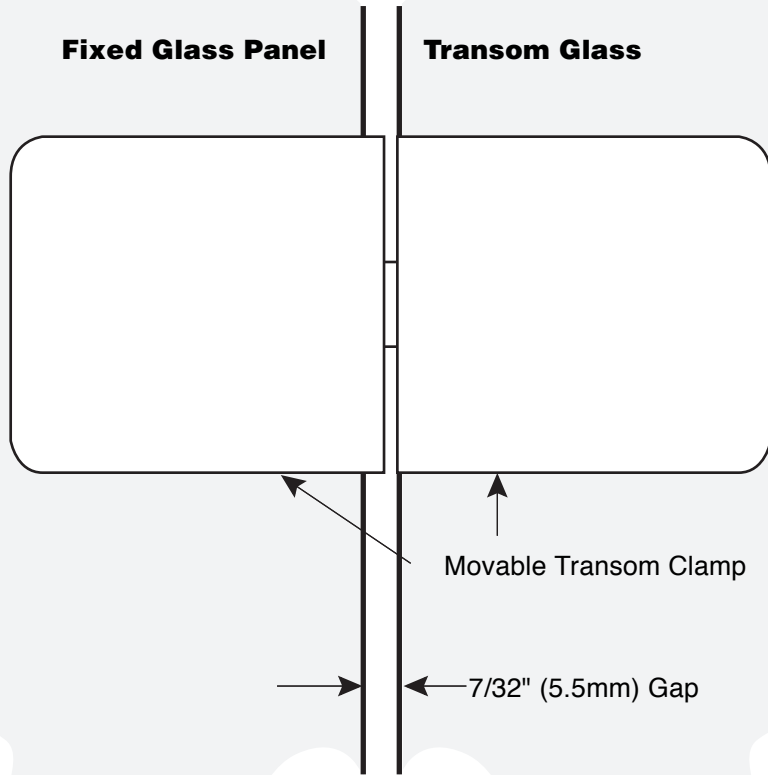
CAT. No. GCB188

Template Shown on Next Page

4X-31

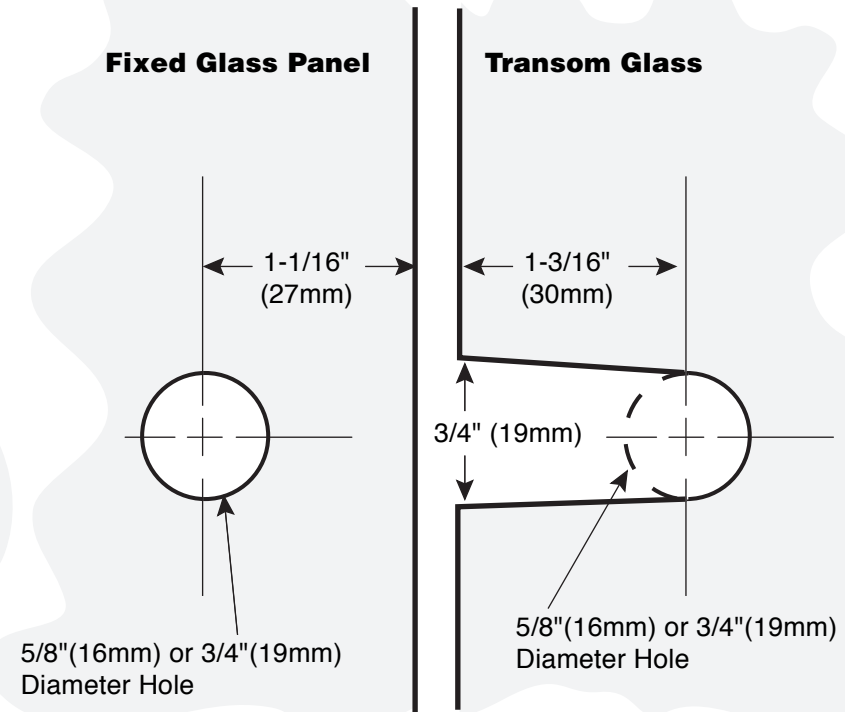


TYPICAL INSTALLATION



TEMPLATE FOR FIXED GLASS PANEL TO MOVABLE TRANSOM GLASS

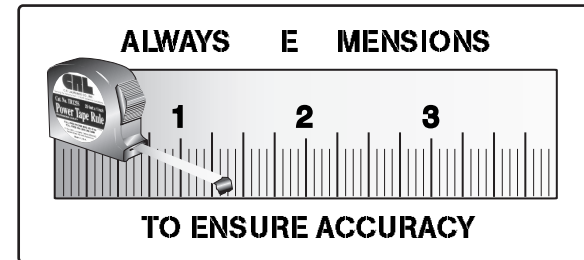
Important: Project measurements from the edge of glass.



GLASS CLAMPS

Glass-to-Glass Movable Transom Clamp

CAT. No. GCB188





C.R. LAURENCE CO., INC.
PROFESSIONAL QUALITY

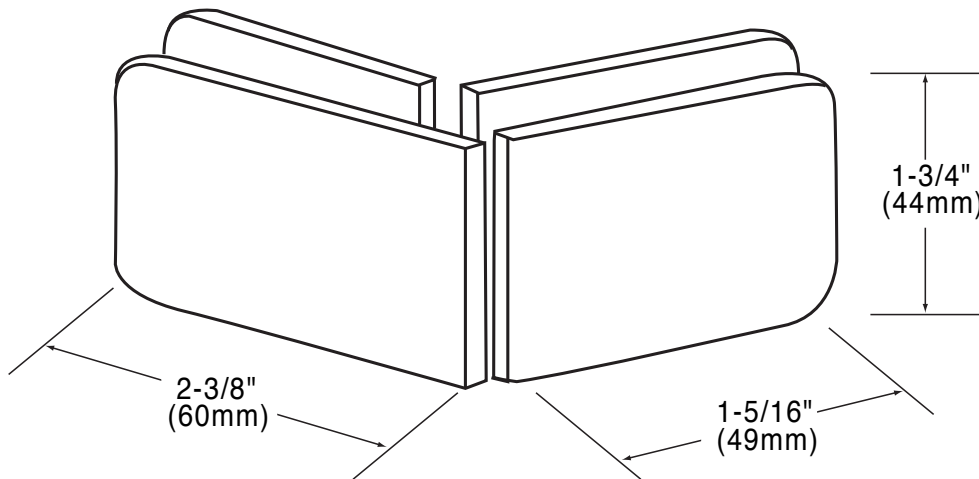
Specifications:

Material: Solid Brass

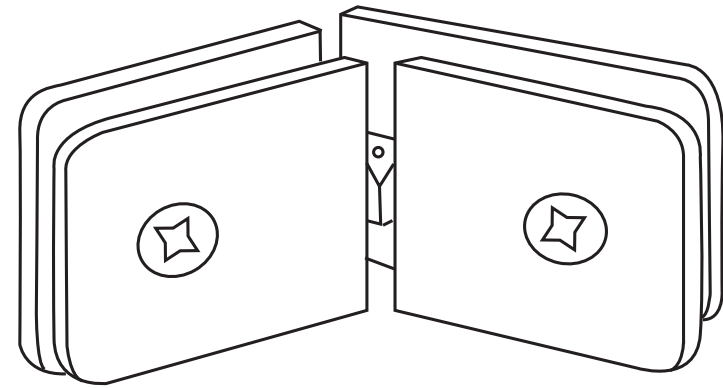
Glass Thickness Range: 5/16" (8mm) to 1/2" (12mm)

Template Required: 3/4" (19mm) Hole for transom, notch for fixed panel

Includes: Gaskets, screws and template



FRONT VIEW



REAR VIEW

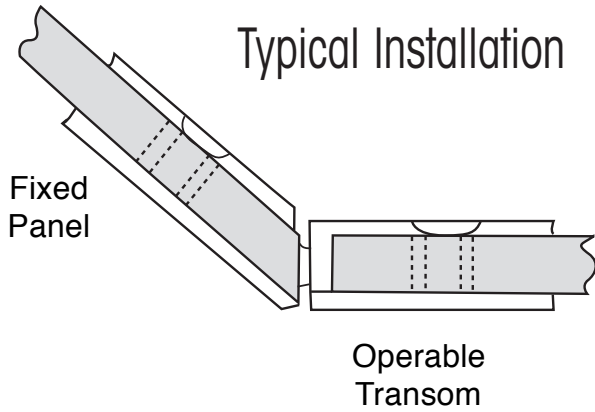
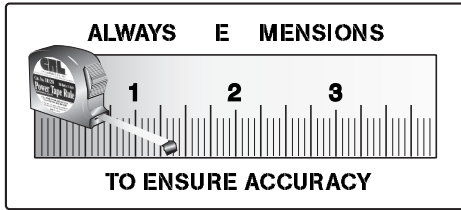
GLASS CLAMPS

Glass-to-Glass 135° Moveable Transom Clamp

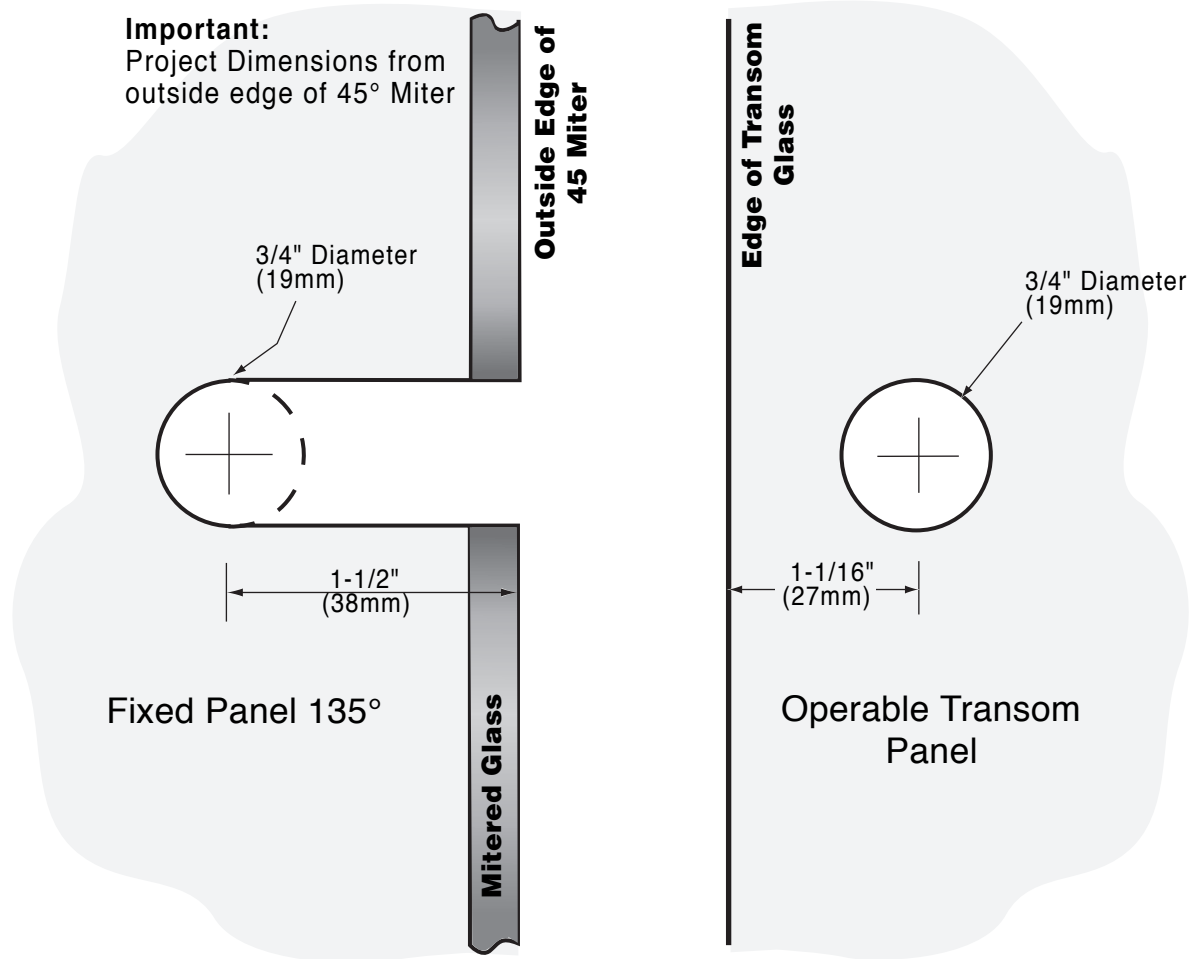
CAT No. GCB335

Template Shown on Next Page

4X-33



Important:
 Project Dimensions from
 outside edge of 45° Miter



GLASS CLAMPS

Glass-to-Glass 135° Movable Transom Clamp

CAT No. GCB335



C.R. LAURENCE CO., INC.
PROFESSIONAL QUALITY

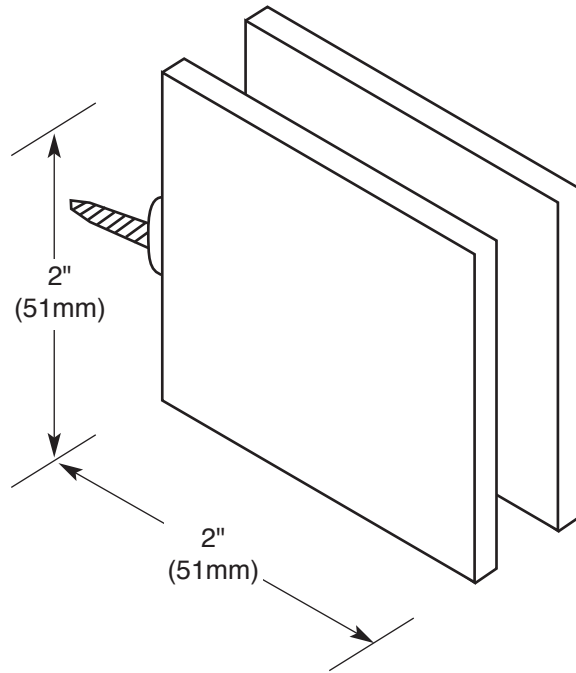
Specifications:

Material: Solid brass

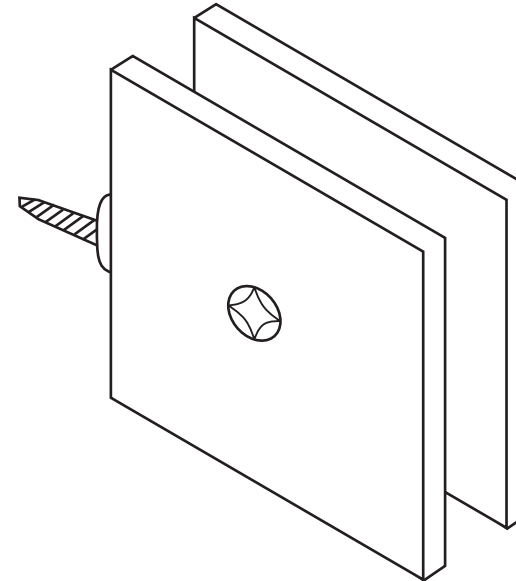
Glass Thickness Range: 3/8" (10mm) to 1/2" (12mm)

Hole Size Required: 5/8" (16mm) or 3/4" (19mm)

Includes: Mounting screws and gaskets



FRONT VIEW



REAR VIEW

GLASS CLAMPS

Wall Mount Movable Transom Clamp

CAT. No. SGC186

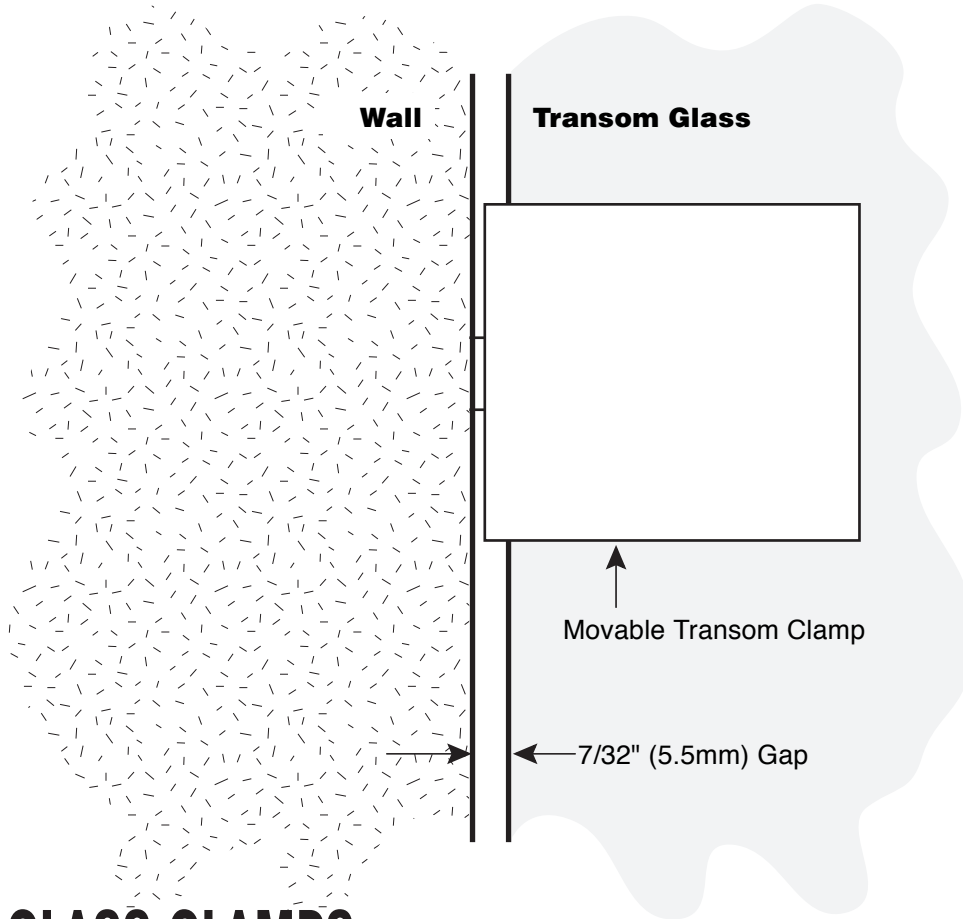
SQUARE

Template Shown on Next Page

4X-35



TYPICAL INSTALLATION



GLASS CLAMPS

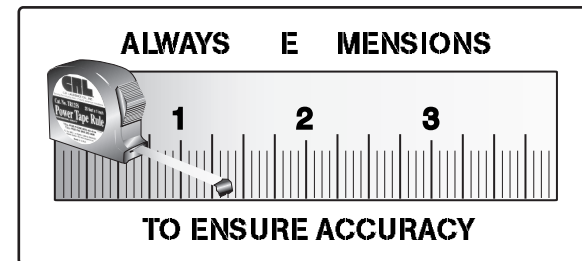
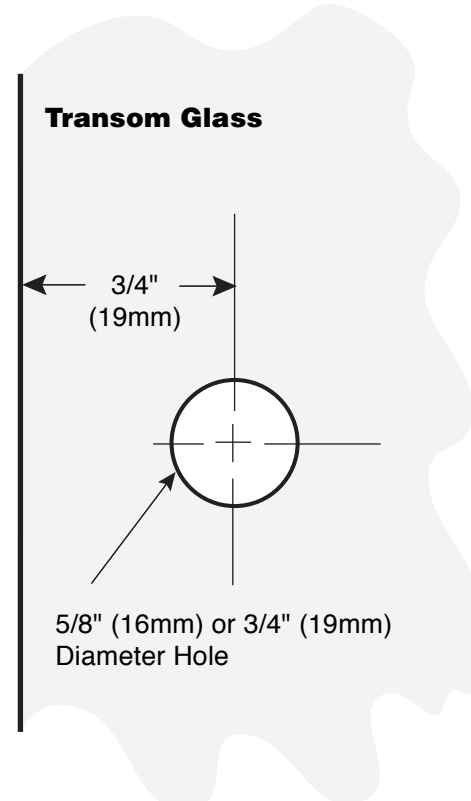
Wall Mount Movable Transom Clamp

CAT. No. SGC186

SQUARE

TEMPLATE FOR WALL TO MOVABLE TRANSOM GLASS

Important: Project measurements from the edge of glass.





C.R. LAURENCE CO., INC.
PROFESSIONAL QUALITY

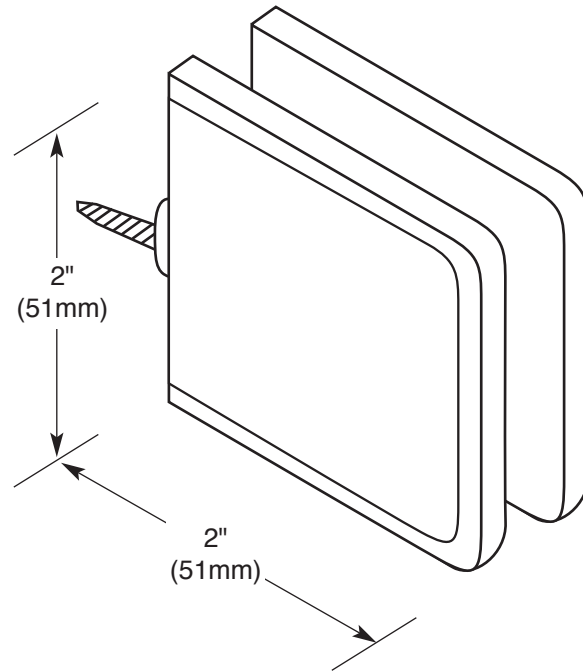
Specifications:

Material: Solid brass

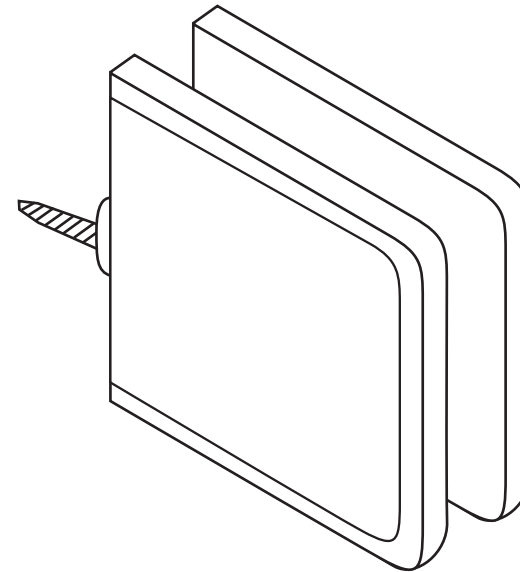
Glass Thickness Range: 3/8" (10mm) to 1/2" (12mm)

Hole Size Required: 5/8" (16mm) or 3/4" (19mm)

Includes: Mounting screws and gaskets



FRONT VIEW



REAR VIEW

GLASS CLAMPS

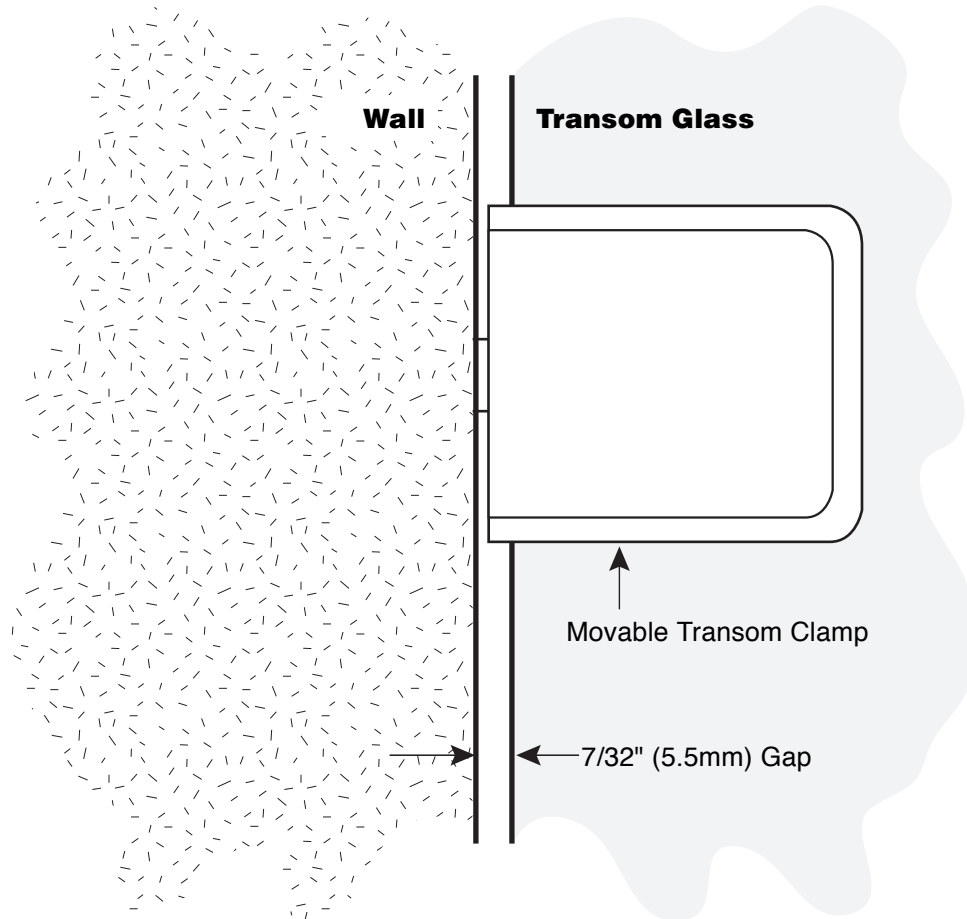
Wall Mount Movable Transom Clamp

CAT. No. BGC186

BEVELED

Template Shown on Next Page

4X-37



GLASS CLAMPS

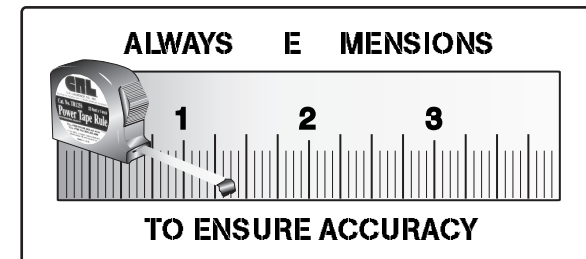
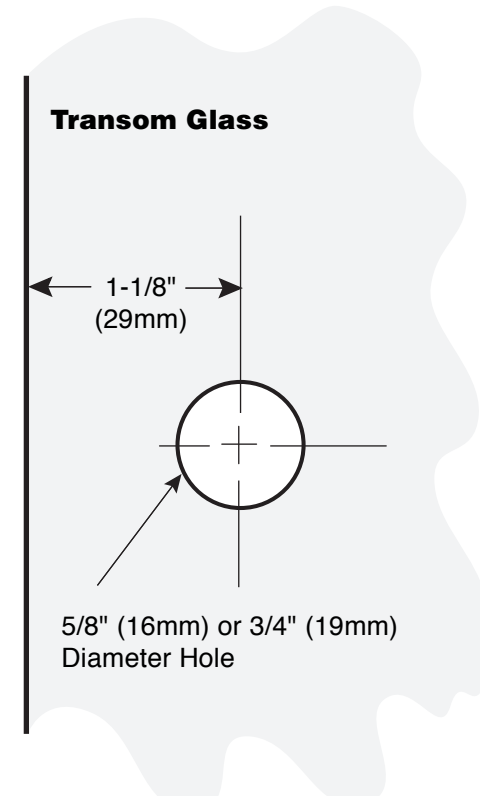
Wall Mount Movable Transom Clamp

CAT. No. BGC186

BEVELED

TEMPLATE FOR WALL TO MOVABLE TRANSOM GLASS

Important: Project measurements from the edge of glass.





C.R. LAURENCE CO., INC.
PROFESSIONAL QUALITY

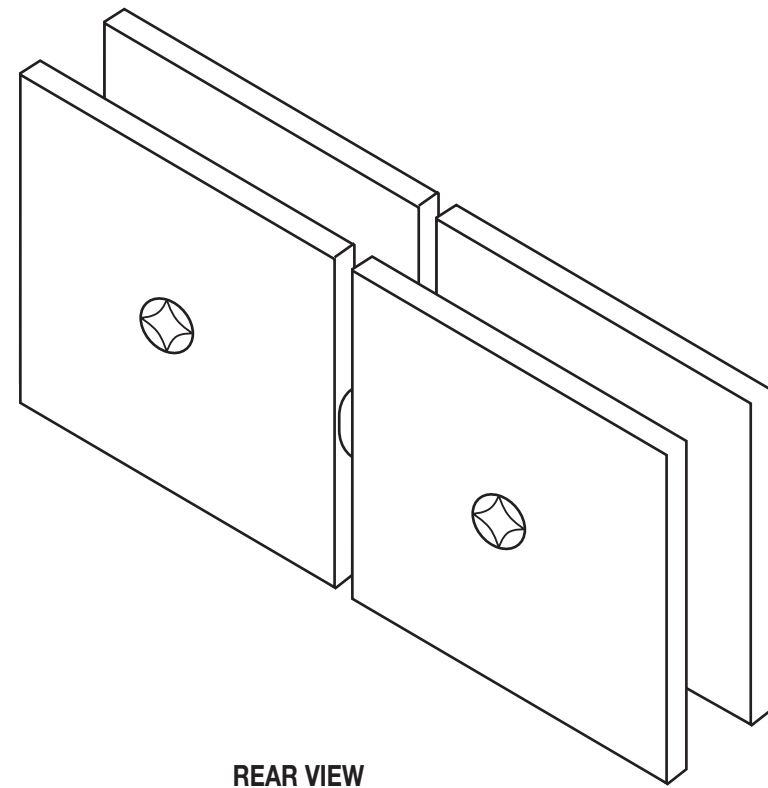
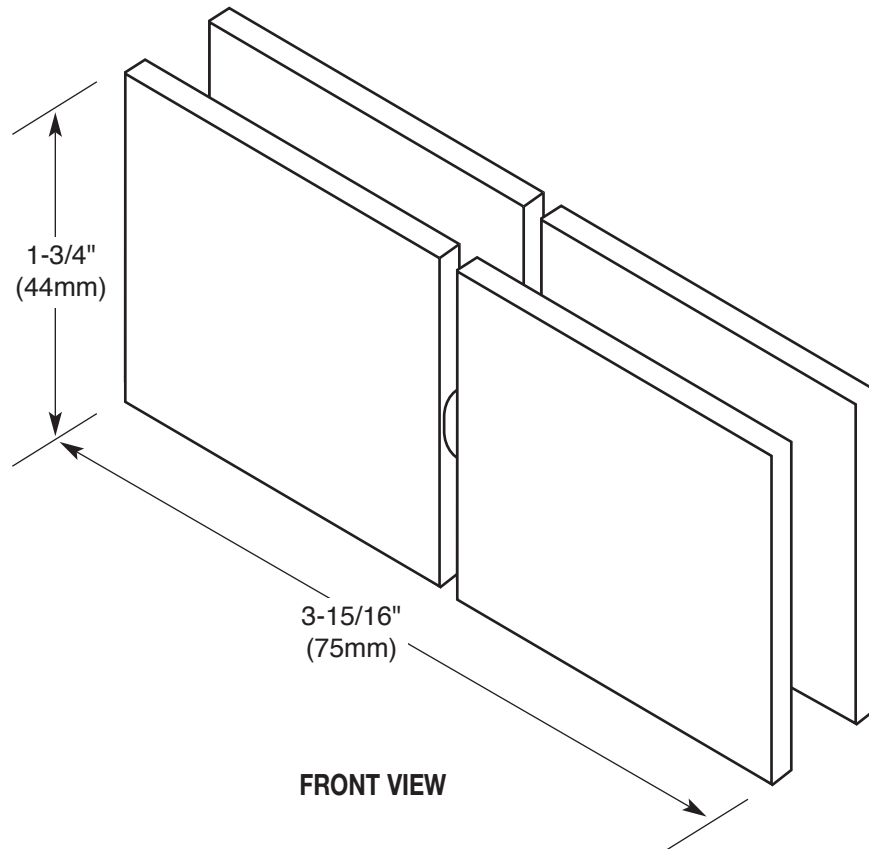
Specifications:

Material: Solid brass

Glass Thickness Range: 3/8" (10mm) to 1/2" (12mm)

Template Required: 5/8" (16mm) or 3/4" (19mm) hole
for fixed panel, notch for transom

Includes: Mounting screws and gaskets



GLASS CLAMPS

Glass-to-Glass Mount Movable Transom Clamp

CAT. No. SGC188

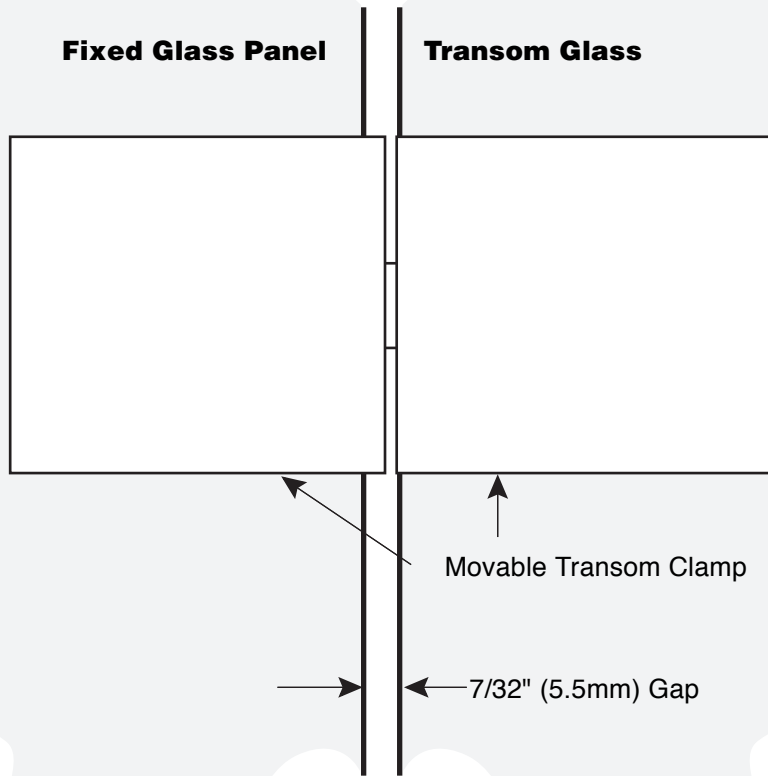
SQUARE

Template Shown on Next Page

4X-39

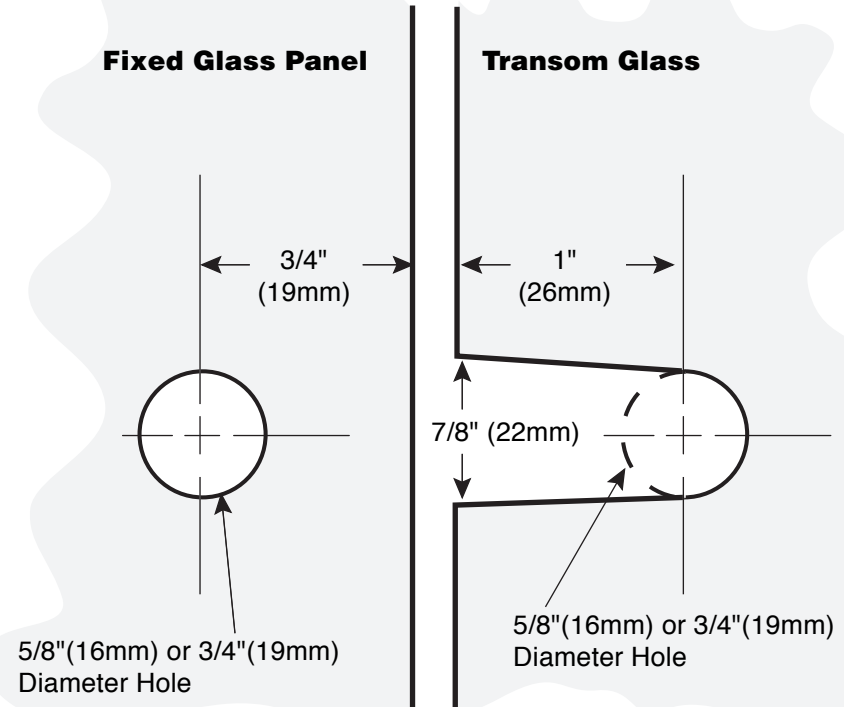


TYPICAL INSTALLATION



TEMPLATE FOR FIXED GLASS PANEL TO MOVABLE TRANSOM GLASS

Important: Project measurements from the edge of glass.

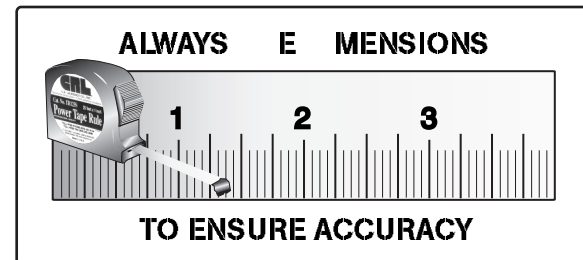


GLASS CLAMPS

Glass-to-Glass Movable Transom Clamp

CAT. No. SGC188

SQUARE





C.R. LAURENCE CO., INC.
PROFESSIONAL QUALITY

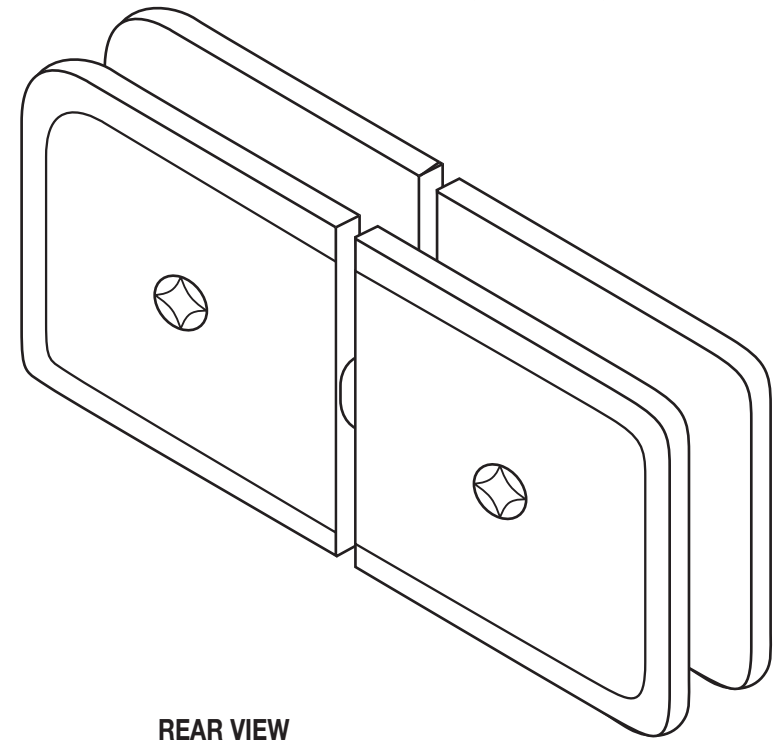
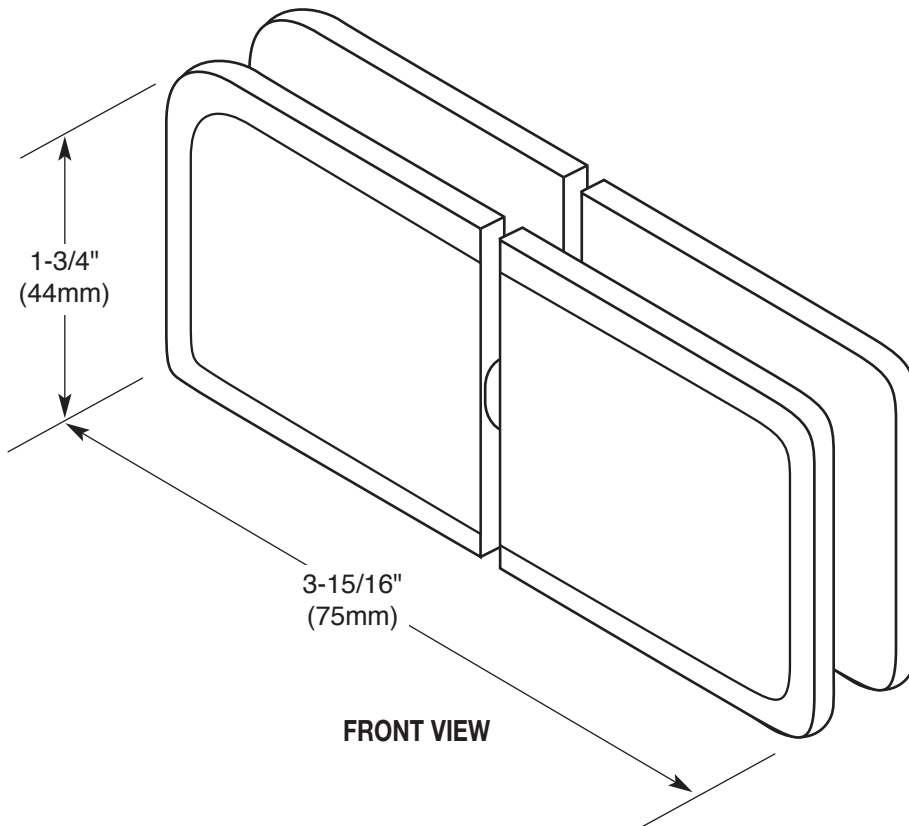
Specifications:

Material: Solid brass

Glass Thickness Range: 3/8" (10mm) to 1/2" (12mm)

Template Required: 5/8" (16mm) or 3/4" (19mm) hole
for fixed panel, notch for transom

Includes: Mounting screws and gaskets



GLASS CLAMPS

Glass-to-Glass Mount Movable Transom Clamp

CAT. No. BGC188

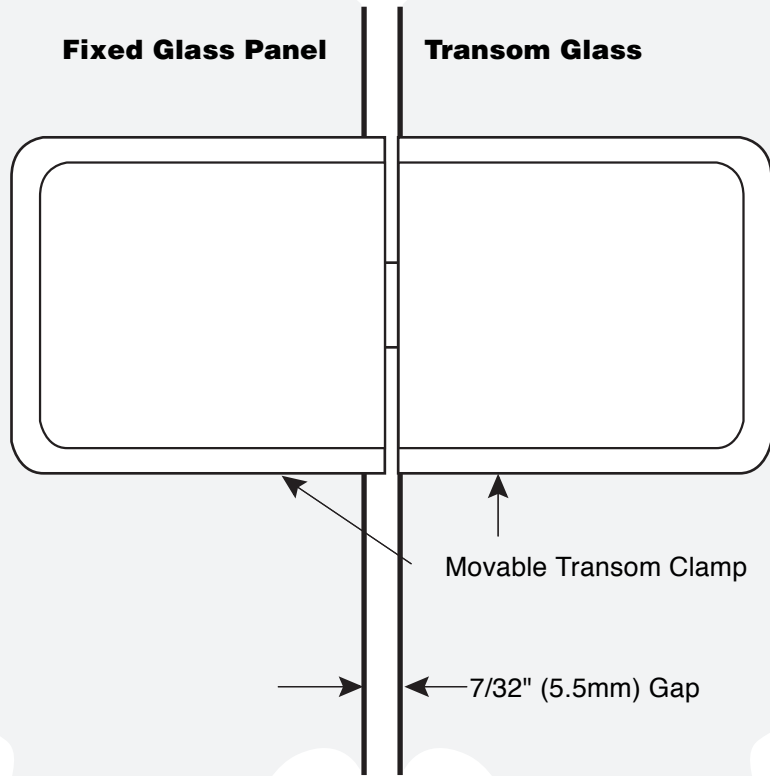
BEVELED

Template Shown on Next Page

4X-41

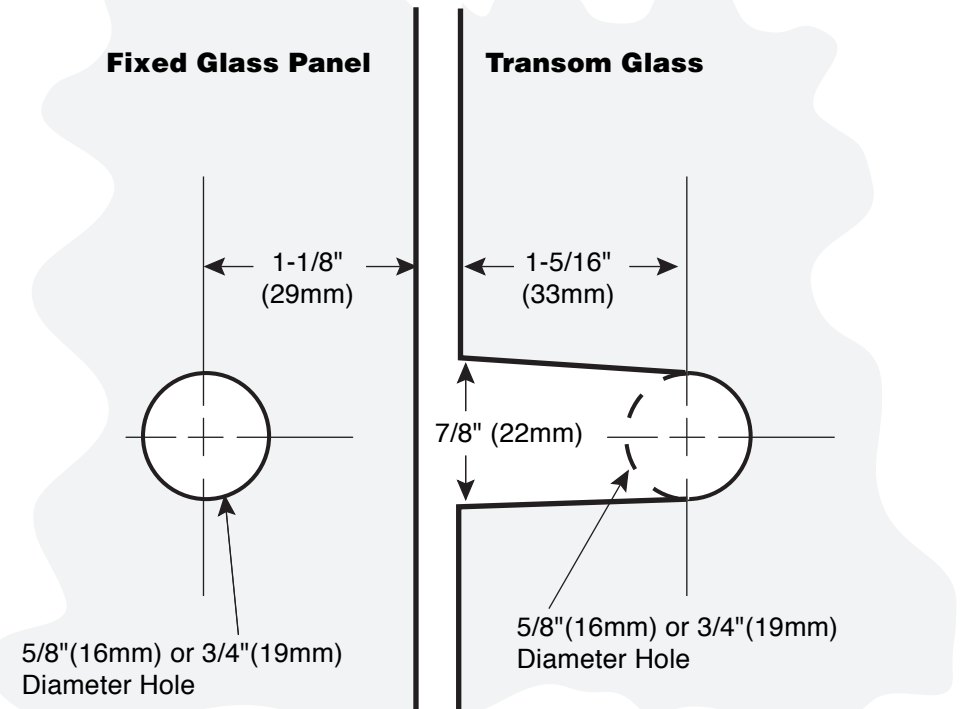


TYPICAL INSTALLATION



TEMPLATE FOR FIXED GLASS PANEL TO MOVABLE TRANSOM GLASS

Important: Project measurements from the edge of glass.

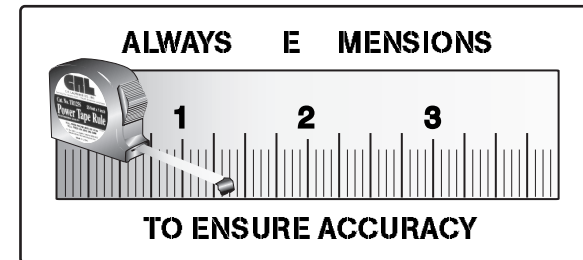


GLASS CLAMPS

Glass-to-Glass Movable Transom Clamp

CAT. No. BGC188

BEVELED



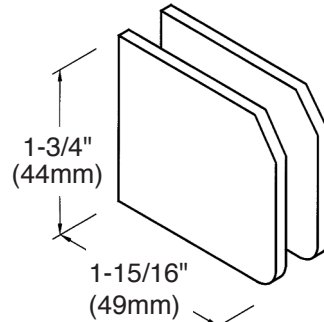


C.R. LAURENCE CO., INC.
PROFESSIONAL QUALITY

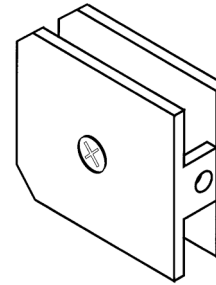
GLASS CLAMPS

Oversized Fixed Panel U-Clamp

CAT. No. UC79



FRONT VIEW



REAR VIEW

Specifications:

Material: Solid brass

Glass Thickness Range: 5/16" (8mm) to 1/2" (12mm)

Hole Size Required: 5/8" (16mm) or 3/4" (19mm)

Includes: Mounting screws and gaskets

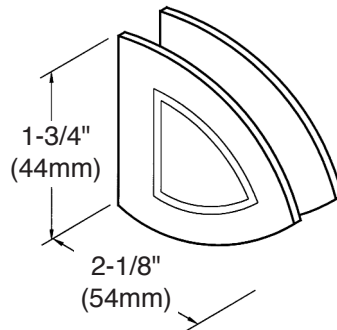
Note: An additional set of gaskets is required for 5/16" (8mm) glass

Template Shown on Next Page

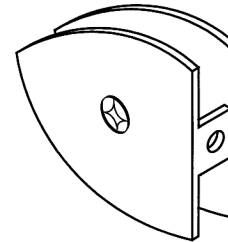
GLASS CLAMPS

Cathedral Style Fixed Panel Clamp

CAT. No. GCB279



FRONT VIEW



REAR VIEW

Specifications:

Material: Solid brass

Glass Thickness Range: 5/16" (8mm) to 1/2" (12mm)

Hole Size Required: 5/8" (16mm) or 3/4" (19mm)

Includes: Mounting screws and gaskets

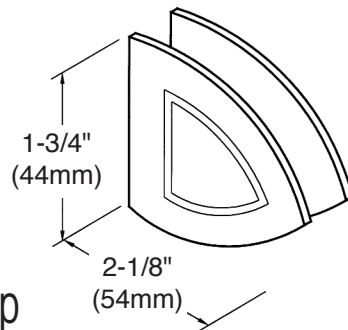
Note: An additional set of gaskets is required for 5/16" (8mm) glass

Template Shown on Next Page

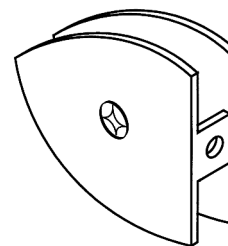
GLASS CLAMPS

Junior Cathedral Fixed Panel Clamp

CAT. No. GCB6279



FRONT VIEW



REAR VIEW

Specifications:

Material: Solid brass

Glass Thickness: 1/4" (6mm)

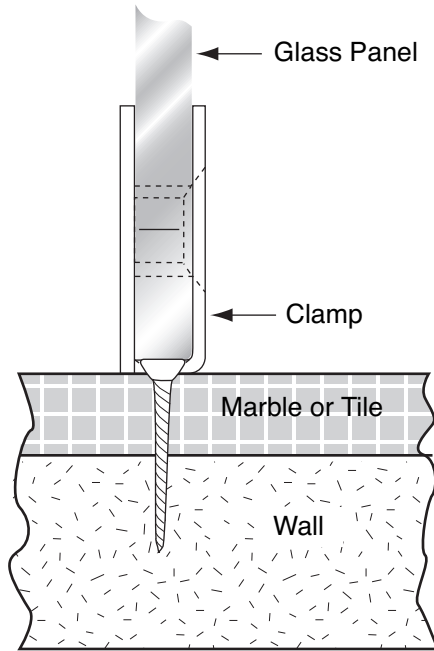
Hole Size Required: 5/8" (16mm) or 3/4" (19mm)

Includes: Mounting screws and gaskets

Template Shown on Next Page



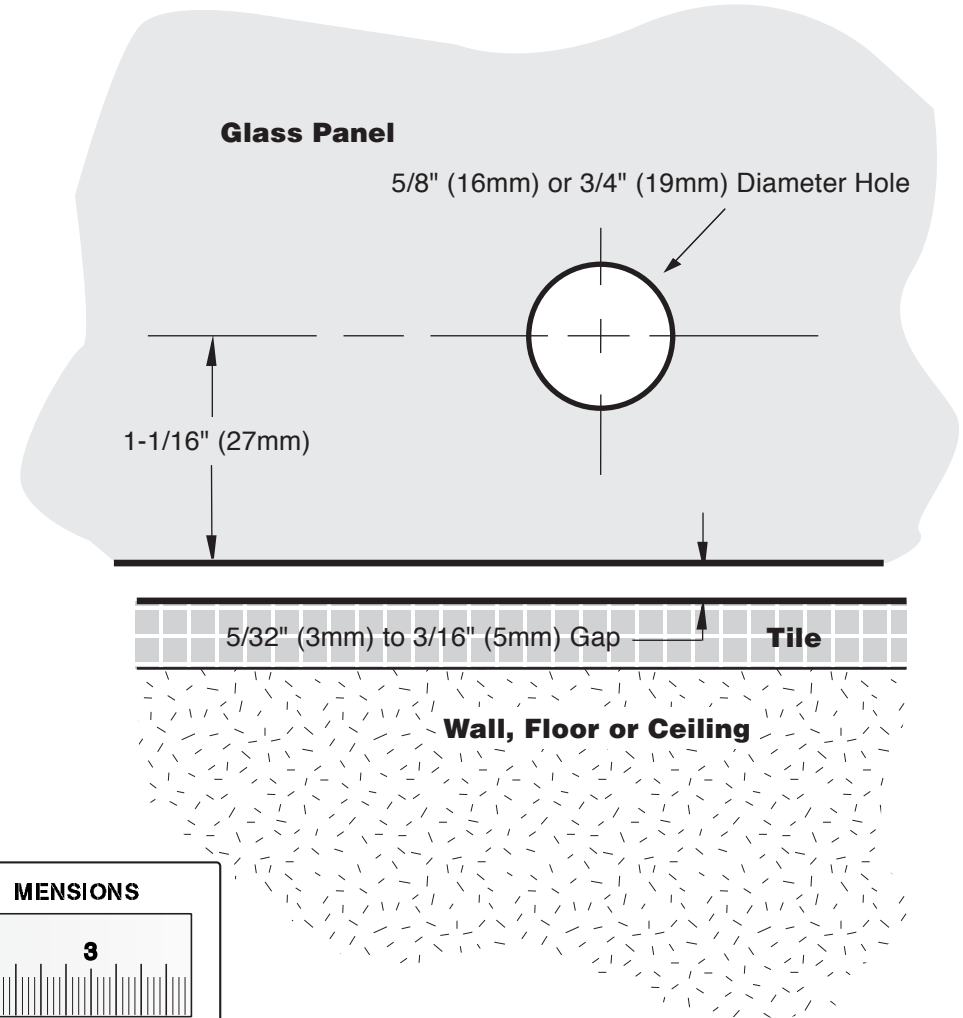
TYPICAL INSTALLATION



END VIEW

TEMPLATE

Important: Project measurements from the edge of the glass.



THE TEMPLATE ON THIS PAGE APPLIES TO CLAMPS BELOW:

Oversized Fixed Panel U-Clamp

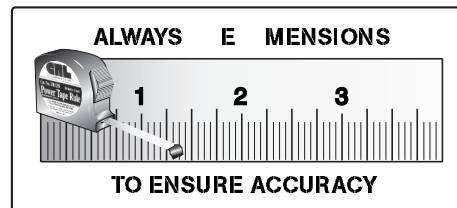
CAT. No. UC79

Cathedral Style Fixed Panel Clamp

CAT. No. GCB279

Junior Cathedral Style Fixed Panel Clamp

CAT. No. GCB6279

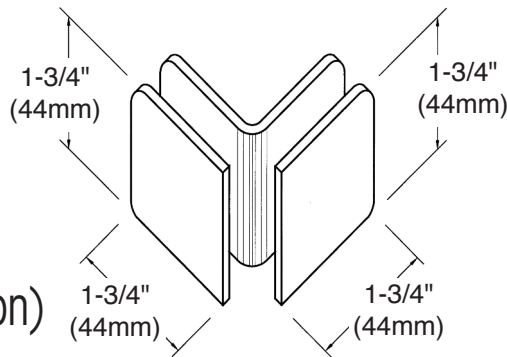




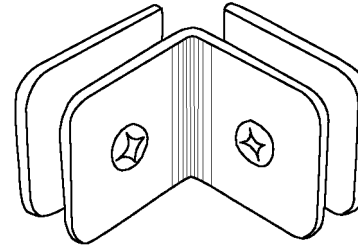
GLASS CLAMPS

90° Glass Clamp
(Glass-to-Glass Application)

CAT. No. GCB90



FRONT VIEW



REAR VIEW

Note: The Clamps shown on this page can also be used in a wall-to-glass application. For information on this see pages 4X-7 and 4X-8.

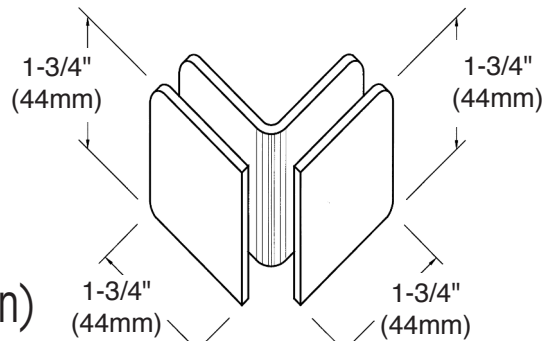
Specifications:

Material: Solid brass
Glass Thickness Range: 5/16" (8mm) to 1/2" (12mm)
Hole Size Required: 5/8" (16mm) or 3/4" (19mm)
Includes: Mounting screws and gaskets
Note: An additional set of gaskets is required for 5/16" (8mm) glass

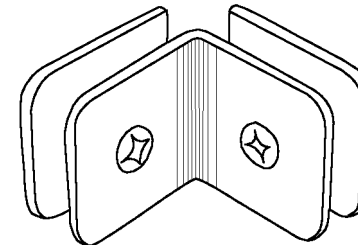
GLASS CLAMPS

Junior 90° Glass Clamp
(Glass-to-Glass Application)

CAT. No. GCB690



FRONT VIEW



REAR VIEW

Specifications:

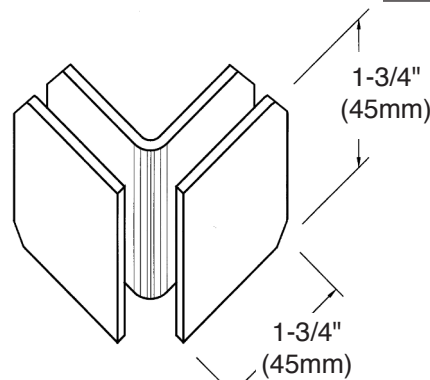
Material: Solid brass
Glass Thickness : 1/4" (6mm)
Hole Size Required: 5/8" (16mm) or 3/4" (19mm)
Includes: Mounting screws and gaskets

Template Shown on Next Page

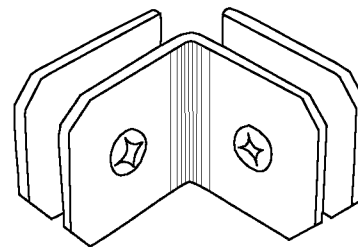
GLASS CLAMPS

Monaco Glass Clamp

CAT. No. M0690



FRONT VIEW



REAR VIEW

Specifications:

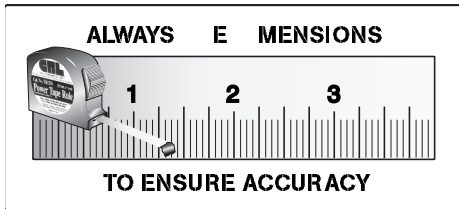
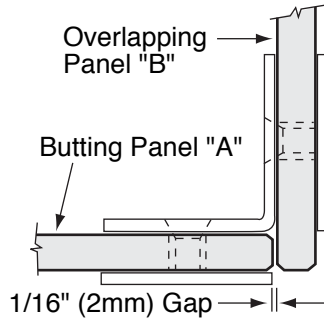
Material: Solid brass
Glass Thickness : 1/4" (6mm) TO 5/16" (8mm)
Hole Size Required: 5/8" (16mm) or 3/4" (19mm)
Includes: Mounting screws and gaskets

Template Shown on Next Page

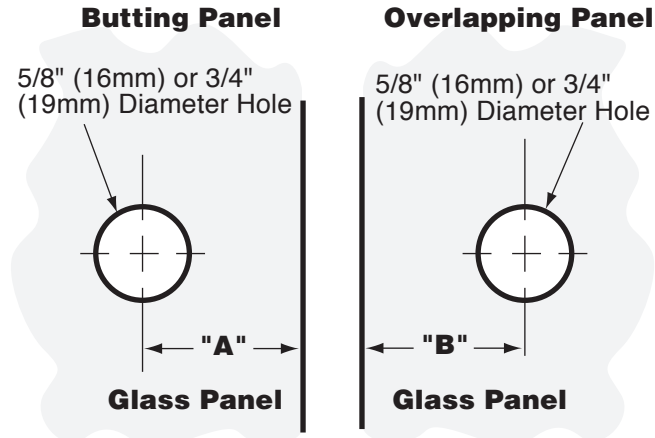


TYPICAL INSTALLATION

Important:
Project measurements from the edge of the glass.



TEMPLATE OPTION FOR SQUARE CUT GLASS



Note: The Clamps shown on this page can also be used in a wall-to-glass application. For information on this see pages 4X-7 and 4X-8.

Glass Thickness	"A" Measurement	"B" Measurement
1/4" (6mm)	15/16" (24mm)	1-1/4" (32mm)
5/16" (8mm)	15/16" (24mm)	1-5/16" (34mm)
3/8" (10mm)	15/16" (24mm)	1-3/8" (35mm)
1/2" (12mm)	15/16" (24mm)	1-1/2" (38mm)

GLASS CLAMPS

THE ABOVE TEMPLATE OPTIONS APPLY TO THE FOLLOWING CLAMPS:

90° Glass Clamp
(Glass-to-Glass Application)

CAT. No. GCB90

Junior 90° Glass Clamp
(Glass-to-Glass Application)

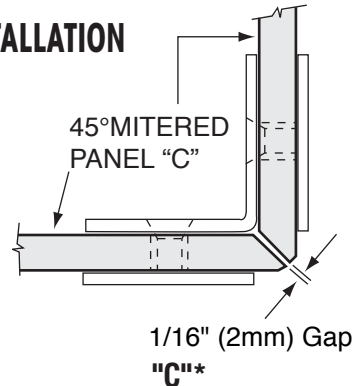
CAT. No. GCB690

Monaco Glass Clamp
(Glass-to-Glass Application)

CAT. No. M0690

TYPICAL INSTALLATION

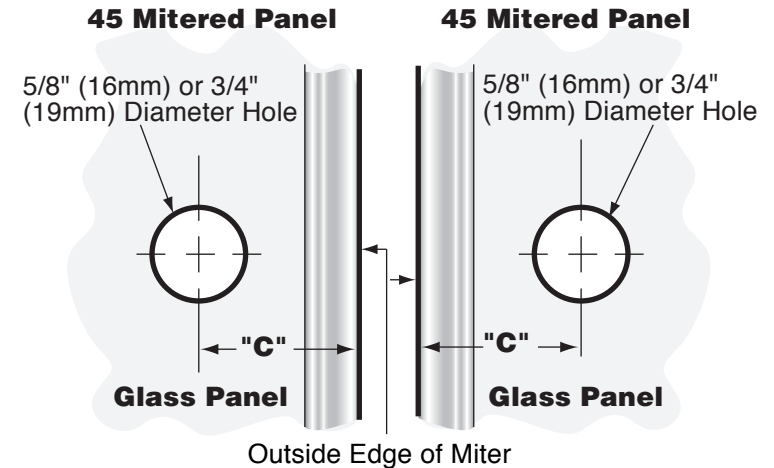
Important:
Project measurements from the outside of the mitered glass.



Glass Thickness	Measurement
1/4" (6mm)	1-3/16" (30mm)
5/16" (8mm)	1-1/4" (32mm)
3/8" (10mm)	1-5/16" (34mm)
1/2" (12mm)	1-7/16" (37mm)

*From outside edge of miter

TEMPLATE OPTION FOR 45° MITERED GLASS



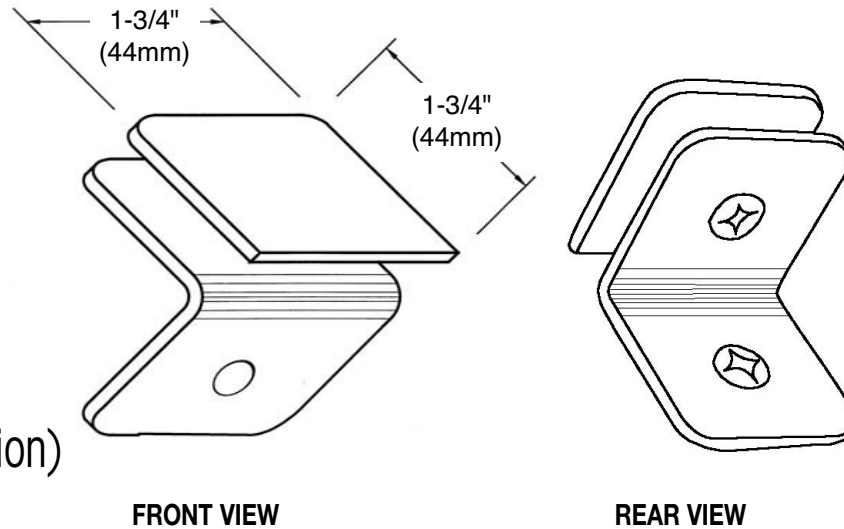


C.R. LAURENCE CO., INC.
PROFESSIONAL QUALITY

GLASS CLAMPS

90° Glass Clamp
 (Wall-to-Glass Application)

CAT. No. GCB90



FRONT VIEW

REAR VIEW

Note: The Clamps shown on this page can also be used in a glass-to-glass application. For information on this see pages 4X-5 and 4X-6.

Specifications:

Material: Solid brass

Glass Thickness Range: 5/16" (8mm) to 1/2" (12mm)

Hole Size Required: 5/8" (16mm) or 3/4" (19mm)

Includes: Mounting screws and gaskets

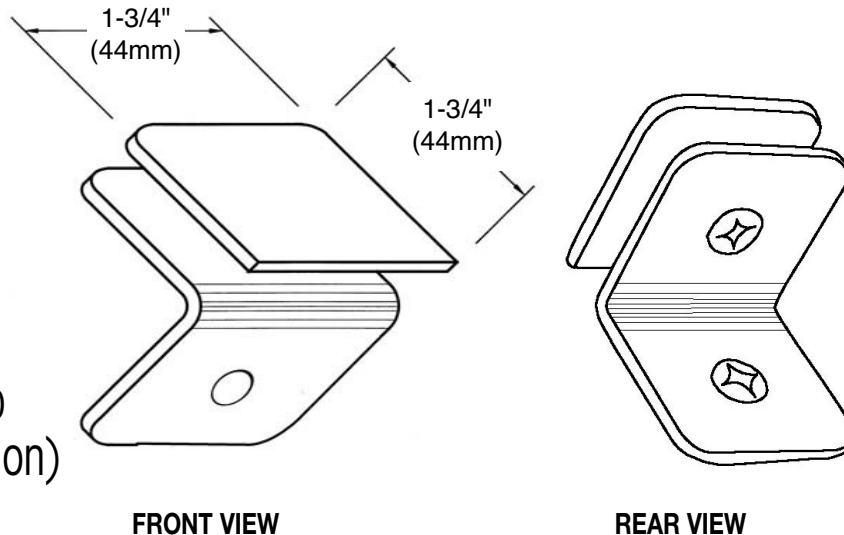
Note: An additional set of gaskets is required for 5/16" (8mm) glass

Template Shown on Next Page

GLASS CLAMPS

Junior 90° Glass Clamp
 (Wall-to-Glass Application)

CAT. No. GCB690



FRONT VIEW

REAR VIEW

Specifications:

Material: Solid brass

Glass Thickness: 1/4" (6mm)

Hole Size Required: 5/8" (16mm) or 3/4" (19mm)

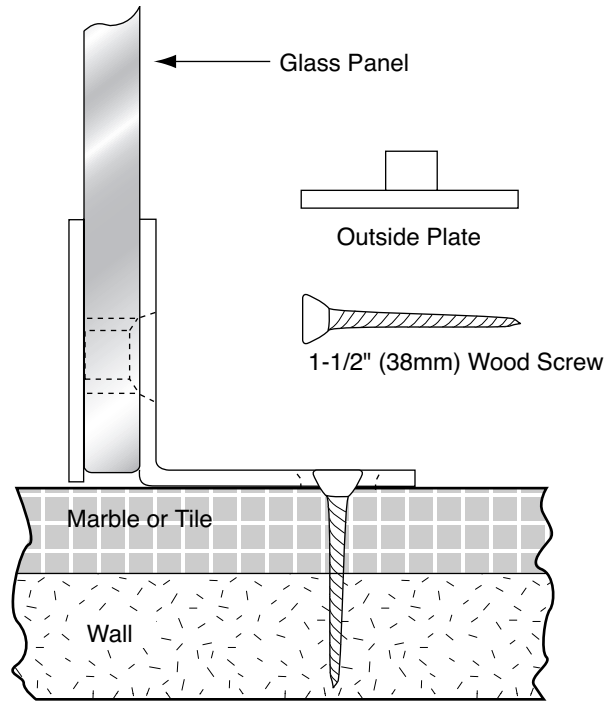
Includes: Mounting screws and gaskets

Template Shown on Next Page



TYPICAL INSTALLATION

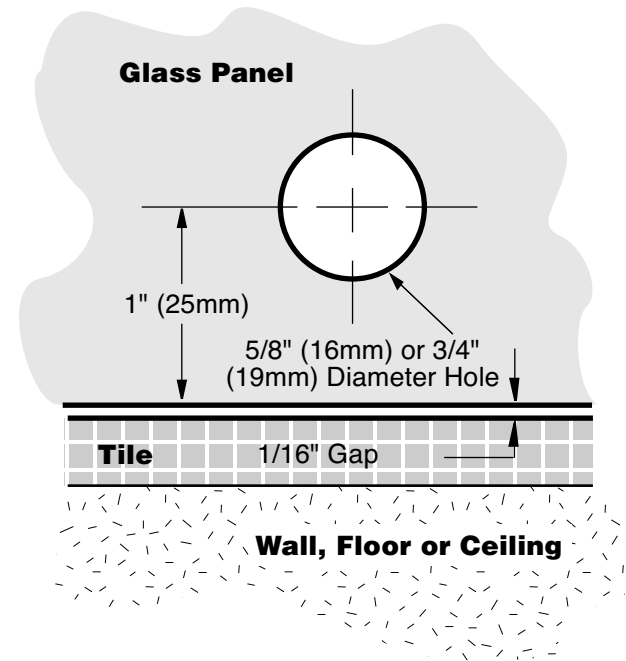
To use for glass-to-wall, remove one of the outer plates, and attach to the wall with enclosed wood screw.



Note: The Clamps shown on this page can also be used in a glass-to-glass application. For information on this see pages 4X-5 and 4X-6.

TEMPLATE

Important: Project measurements from the edge of the glass.



GLASS CLAMPS

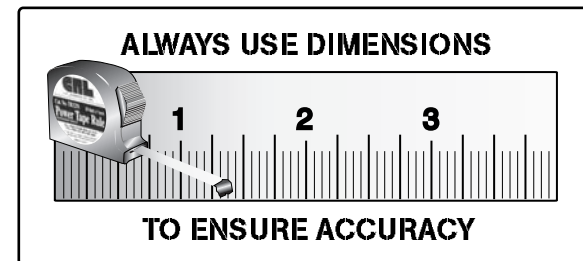
THE TEMPLATE ON THIS PAGE APPLIES TO THE FOLLOWING CLAMPS:

90° Glass Clamp (Wall-to-Glass Application)

CAT. No. GCB90

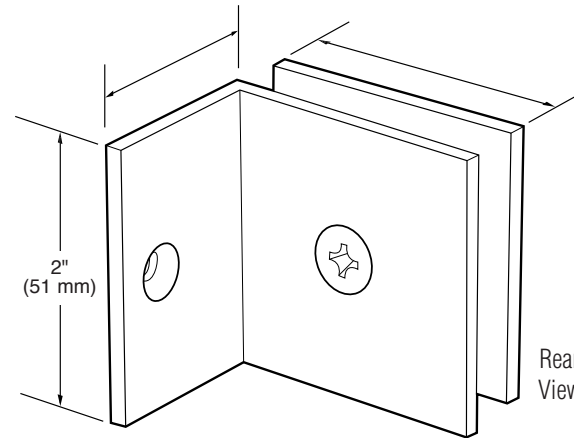
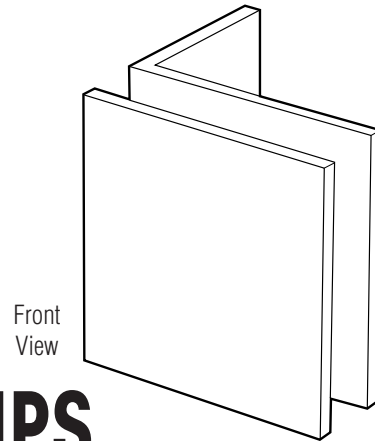
Junior 90° Glass Clamp (Wall-to-Glass Application)

CAT. No. GCB690





C.R. LAURENCE CO., INC.
PROFESSIONAL QUALITY



GLASS CLAMPS

Fixed Panel Square with Small Leg

CAT No. SGC037

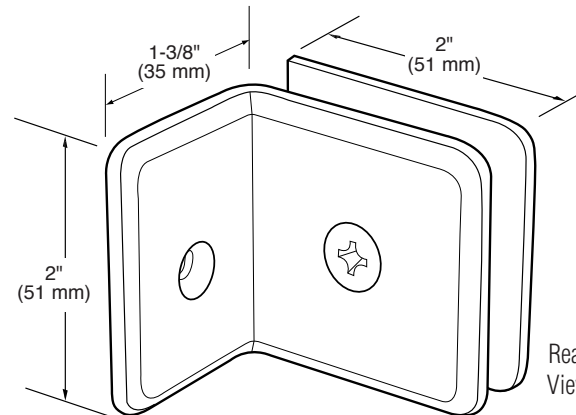
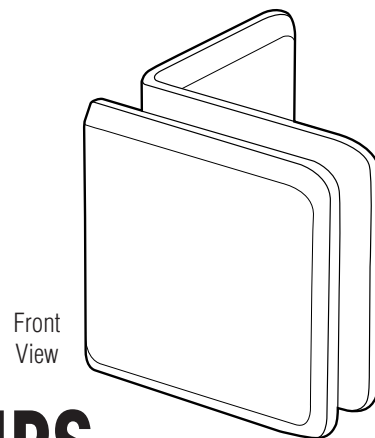
Specifications:

Material: Solid brass

Glass Thickness Range: 3/8" (10 mm) to 1/2" (12mm) thick glass

Hole Size Required: 5/8" (16mm) or 3/4" (19mm) diameter

Includes: Mounting Screws and Gaskets
Templates Shown on Next Page



GLASS CLAMPS

Fixed Panel Beveled with Small Leg

CAT No. BGC037

Specifications:

Material: Solid brass

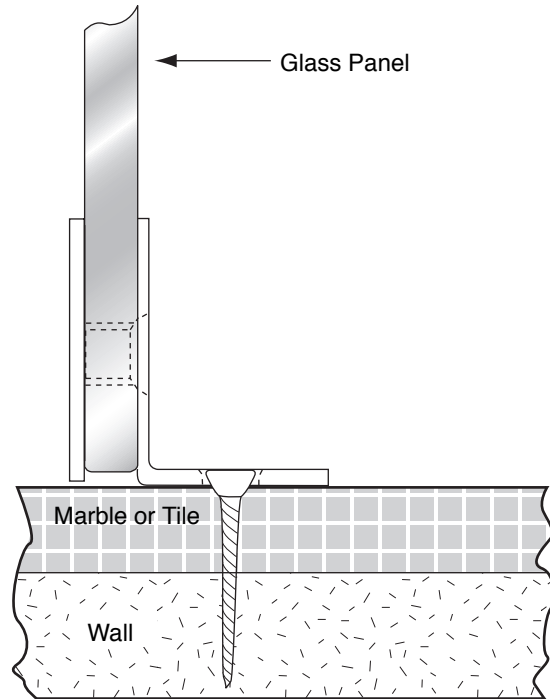
Glass Thickness Range: 3/8" (10 mm) to 1/2" (12mm) thick glass

Hole Size Required: 5/8" (16mm) or 3/4" (19mm) diameter

Includes: Mounting Screws and Gaskets
Templates Shown on Next Page

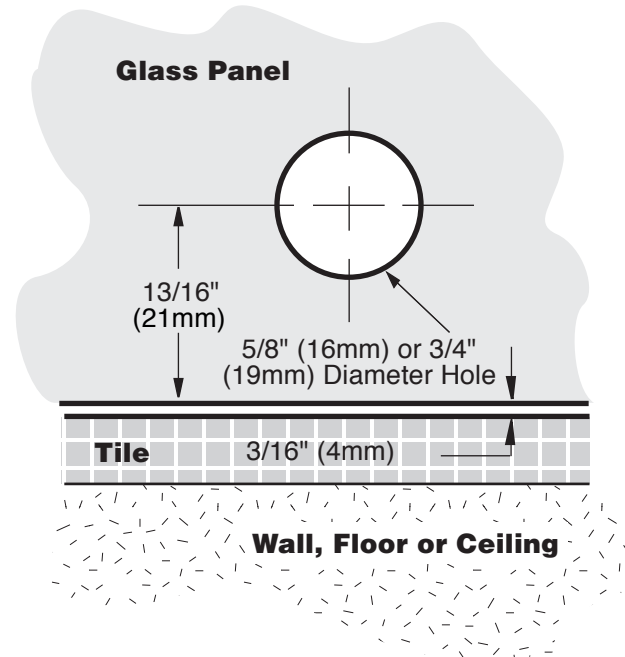


TYPICAL INSTALLATION



TEMPLATE

Important: Project measurements from the edge of the glass.



GLASS CLAMPS

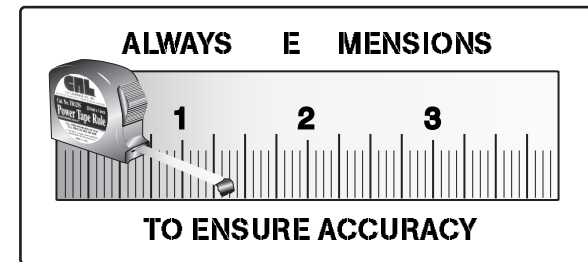
THE TEMPLATE ON THIS PAGE APPLIES TO THE FOLLOWING CLAMPS:

Fixed Panel Square with Small Leg

CAT. No. SGC037

Fixed Panel Beveled with Small Leg

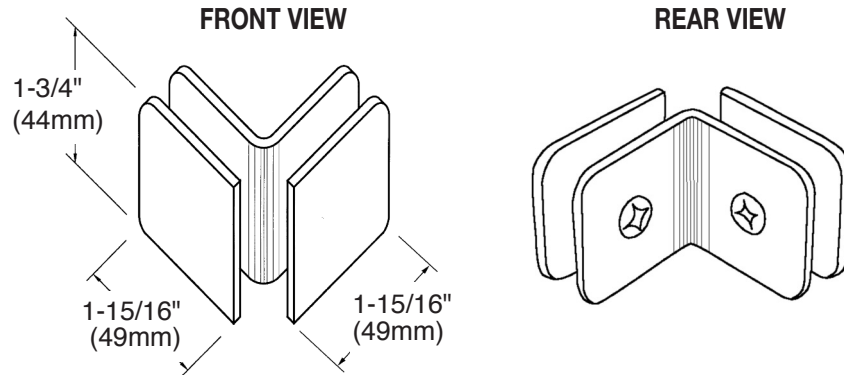
CAT. No. BGC037





C.R. LAURENCE CO., INC.
PROFESSIONAL QUALITY

GLASS CLAMPS
Oversized 90° Clamp
(Glass-to-Glass Application)
CAT. No. **GCB91**



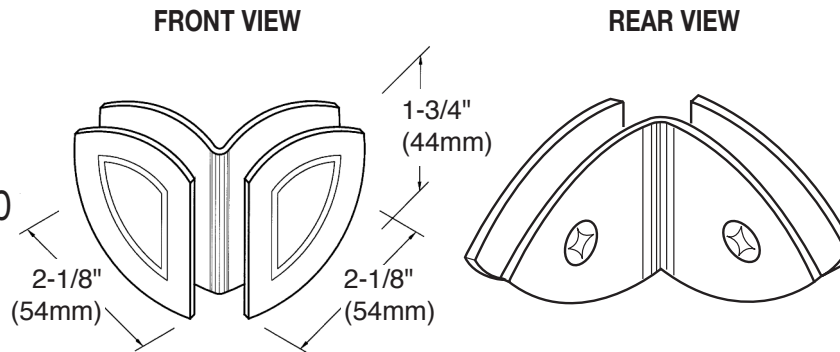
Note: The Clamps shown on this page can also be used in a wall-to-glass application. For information on this see pages 4X-11 and 4X-12.

Specifications:

Material: Solid brass
Glass Thickness Range: 5/16" (8mm) to 1/2" (12mm)
Hole Size Required: 5/8" (16mm) or 3/4" (19mm)
Includes: Mounting screws and gaskets
Note: An additional set of gaskets is required for 5/16" (8mm) glass

Template Shown on Next Page

GLASS CLAMPS
Cathedral Style 90° Glass Clamp
(Glass-to-Glass Application)
CAT. No. **GCB290**

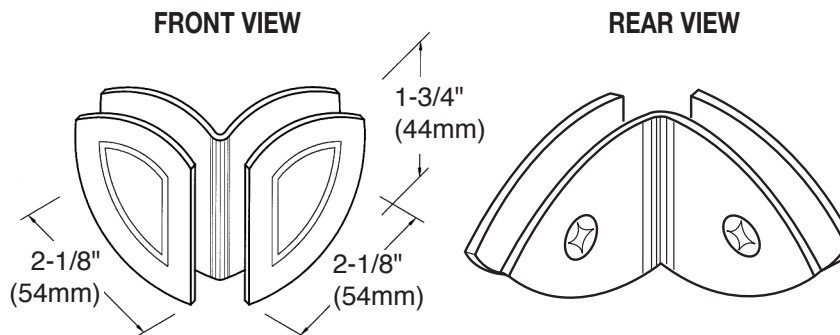


Specifications:

Material: Solid brass
Glass Thickness Range: 5/16" (8mm) to 1/2" (12mm)
Hole Size Required: 5/8" (16mm) or 3/4" (19mm)
Includes: Mounting screws and gaskets
Note: An additional set of gaskets is required for 5/16" (8mm) glass

Template Shown on Next Page

GLASS CLAMPS
Junior Cathedral
Style 90° Glass Clamp
(Glass-to-Glass Application)
CAT. No. **GCB6290**



Specifications:

Material: Solid brass
Glass Thickness: 1/4" (6mm)
Hole Size Required: 5/8" (16mm) or 3/4" (19mm)
Includes: Mounting screws and gaskets

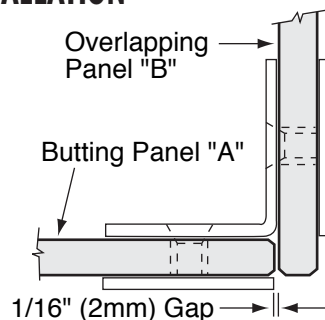
Template Shown on Next Page



Note: The Clamps shown on this page can also be used in a wall-to-glass application. For information on this see pages 4X-11 and 4X-12.

TYPICAL INSTALLATION

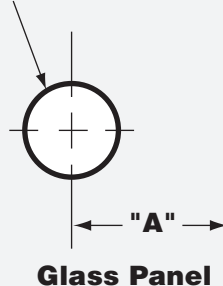
Important: Project measurements from the edge of the glass.



TEMPLATE OPTION FOR SQUARE CUT GLASS

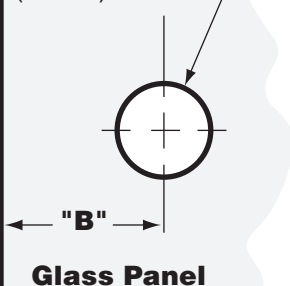
Butting Panel

5/8" (16mm) or 3/4" (19mm) Diameter Hole

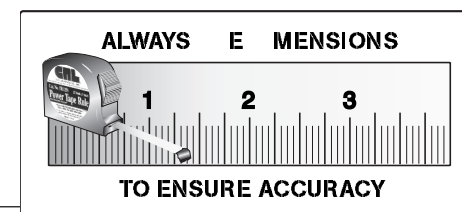


Overlapping Panel

5/8" (16mm) or 3/4" (19mm) Diameter Hole



Glass Thickness	"A" Measurement	"B" Measurement
1/4" (6mm)	1-3/16" (30mm)	1-1/2" (38mm)
5/16" (8mm)	1-3/16" (30mm)	1-9/16" (40mm)
3/8" (10mm)	1-3/16" (30mm)	1-5/8" (42mm)
1/2" (12mm)	1-3/16" (30mm)	1-3/4" (44mm)



GLASS CLAMPS

THE TEMPLATE OPTIONS ON THIS PAGE

APPLY TO THE FOLLOWING CLAMPS:

Oversized 90° Glass Clamp
(Glass-to-Glass Application)

CAT. No. GCB91

Cathedral Style 90° Glass Clamp
(Glass-to-Glass Application)

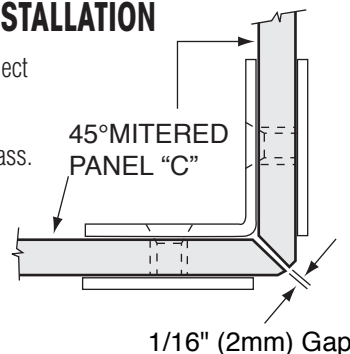
CAT. No. GCB290

Junior Cathedral Style 90° Glass Clamp
(Glass-to-Glass Application)

CAT. No. GCB6290

TYPICAL INSTALLATION

Important: Project measurements from the outside of the mitered glass.



Glass Thickness

"C" Measurement

1/4" (6mm)

1-7/16" (37mm)

5/16" (8mm)

1-1/2" (38mm)

3/8" (10mm)

1-9/16" (40mm)

1/2" (12mm)

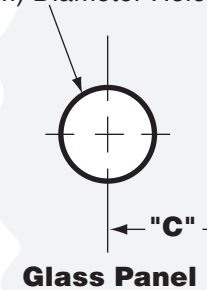
1-11/16" (42mm)

*From outside edge of miter

TEMPLATE OPTION FOR 45° MITERED GLASS

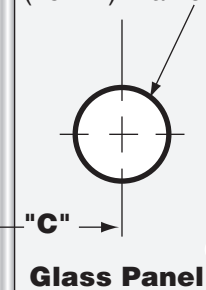
45 Mitered Panel

5/8" (16mm) or 3/4" (19mm) Diameter Hole



45 Mitered Panel

5/8" (16mm) or 3/4" (19mm) Diameter Hole



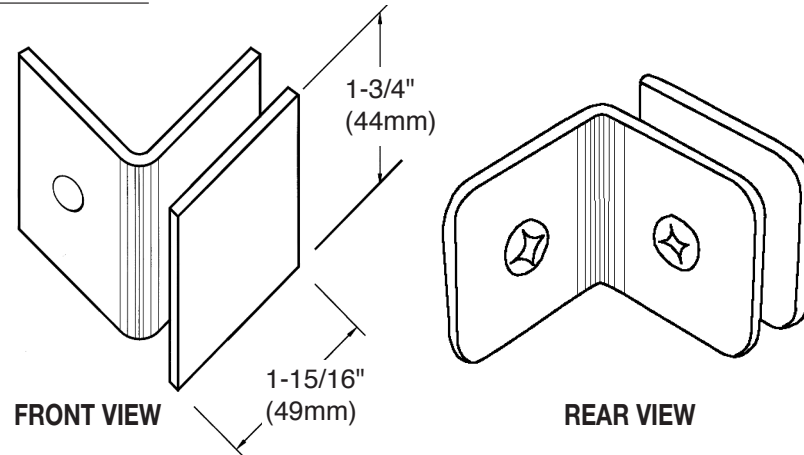
Outside Edge of Miter



GLASS CLAMPS

Oversized 90° Glass Clamp
(Wall-to-Glass Application)

CAT. No. GCB91



Note: The Clamps shown on this page can also be used in a glass-to-glass application. For information on this see pages 4X-9 and 4X-10.

Specifications:

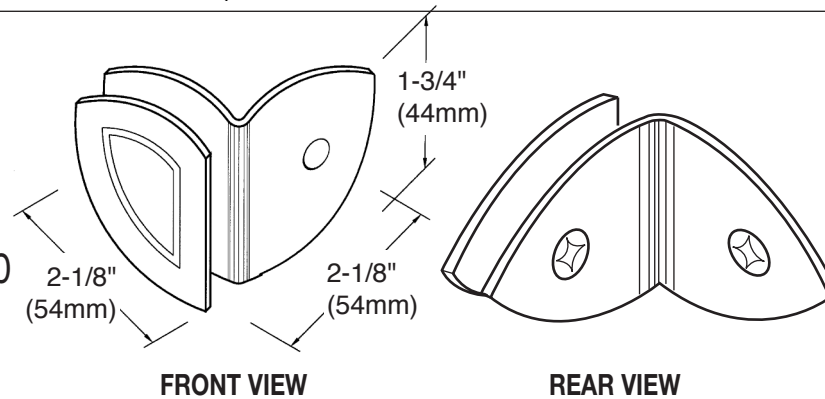
Material: Solid brass
Glass Thickness Range: 5/16" (8mm) to 1/2" (12mm)
Hole Size Required: 5/8" (16mm) or 3/4" (19mm)
Includes: Mounting screws and gaskets
Note: An additional set of gaskets is required for 5/16" (8mm) glass

Template Shown on Next Page

GLASS CLAMPS

Cathedral Style 90° Glass Clamp
(Wall-to-Glass Application)

CAT. No. GCB290



Specifications:

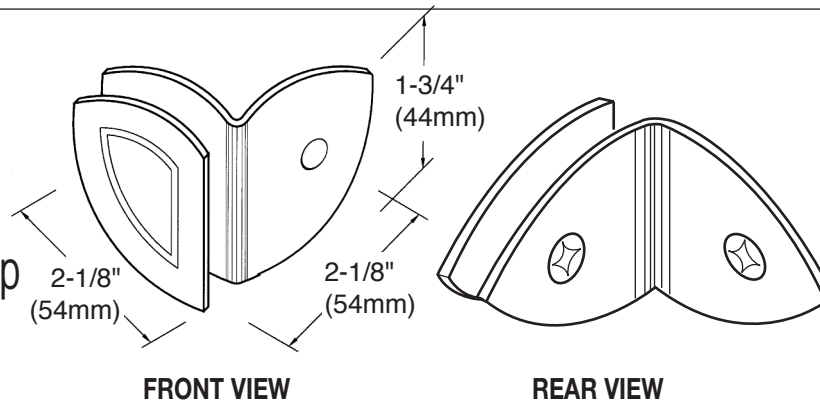
Material: Solid brass
Glass Thickness Range: 5/16" (8mm) to 1/2" (12mm)
Hole Size Required: 5/8" (16mm) or 3/4" (19mm)
Includes: Mounting screws and gaskets
Note: An additional set of gaskets is required for 5/16" (8mm) glass

Template Shown on Next Page

GLASS CLAMPS

Junior Cathedral 90° Glass Clamp
(Wall-to-Glass Application)

CAT. No. GCB6290



Specifications:

Material: Solid brass
Glass Thickness: 1/4" (6mm)
Hole Size Required: 5/8" (16mm) or 3/4" (19mm)
Includes: Mounting screws and gaskets

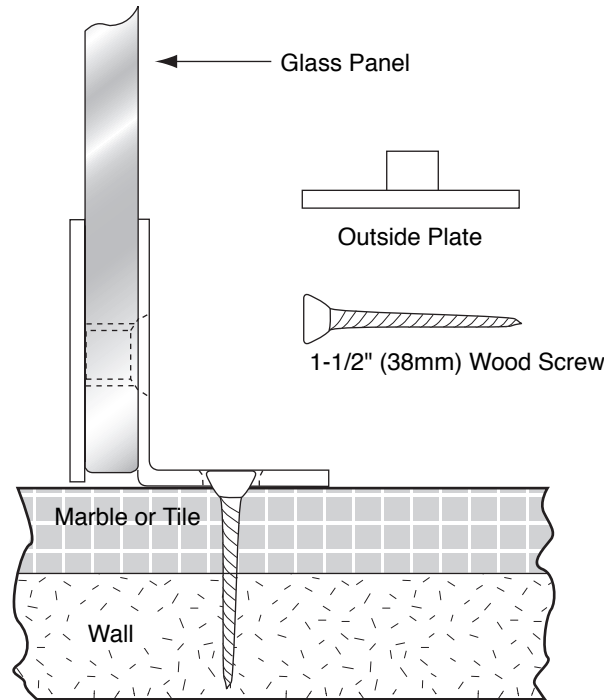
Template Shown on Next Page

4X-11



TYPICAL INSTALLATION

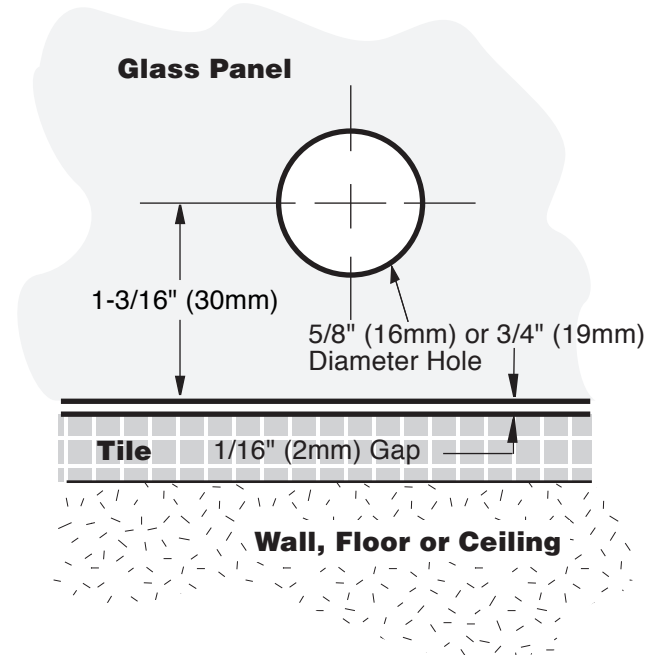
To use for wall-to-glass, remove one of the outer plates, and attach to the wall with enclosed wood screw.



Note: The Clamps shown on this page can also be used in a glass-to-glass application. For information on this see pages 4X-9 and 4X-10.

TEMPLATE

Important: Project measurements from the edge of the glass.



THE TEMPLATE ON THIS PAGE APPLIES TO THE FOLLOWING CLAMPS:

Oversized 90° Glass Clamp (Wall-to-Glass Application)

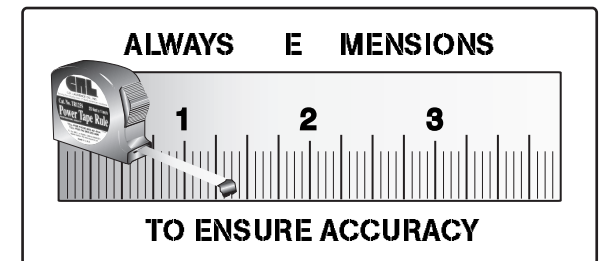
CAT. No. GCB91

Cathedral Style 90° Glass Clamp (Wall-to-Glass Application)

CAT. No. GCB290

Junior Cathedral Style 90° Glass Clamp (Wall-to-Glass Application)

CAT. No. GCB6290





C.R. LAURENCE CO., INC.
PROFESSIONAL QUALITY

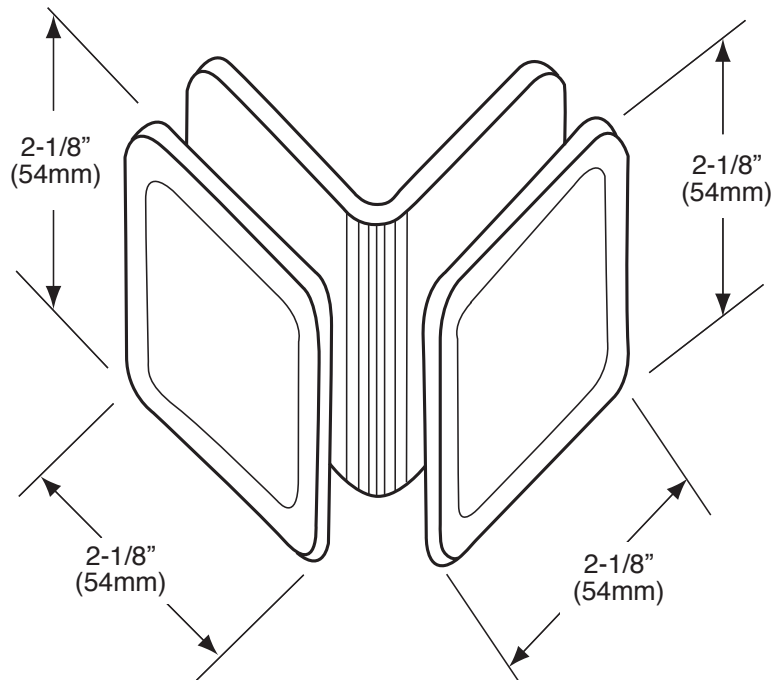
Specifications:

Material: Solid brass

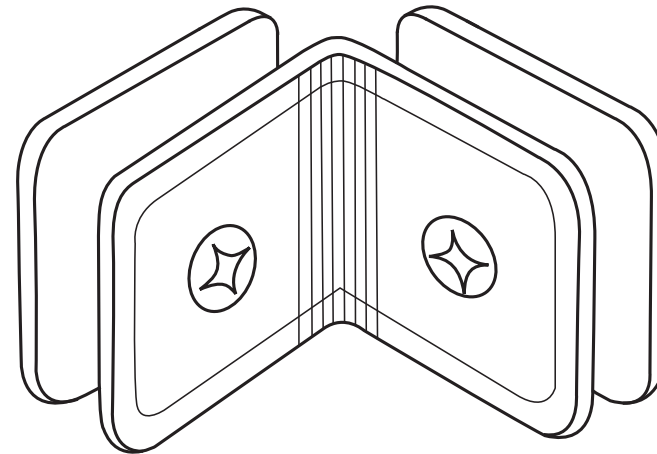
Glass Thickness Range: 3/8" (10mm) to 1/2" (12mm)

Hole Size Required: 5/8" (16mm) or 3/4" (19mm)

Includes: Mounting screws and gaskets



FRONT VIEW



REAR VIEW

GLASS CLAMPS

Estate 90° Glass Clamp

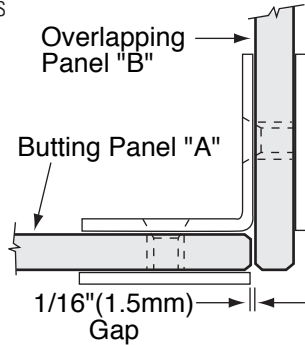
CAT. No. EST111

Template Shown on Next Page

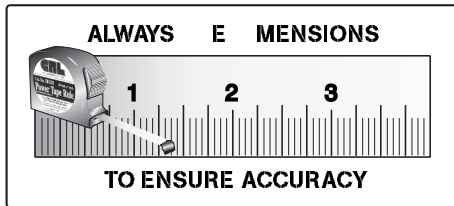
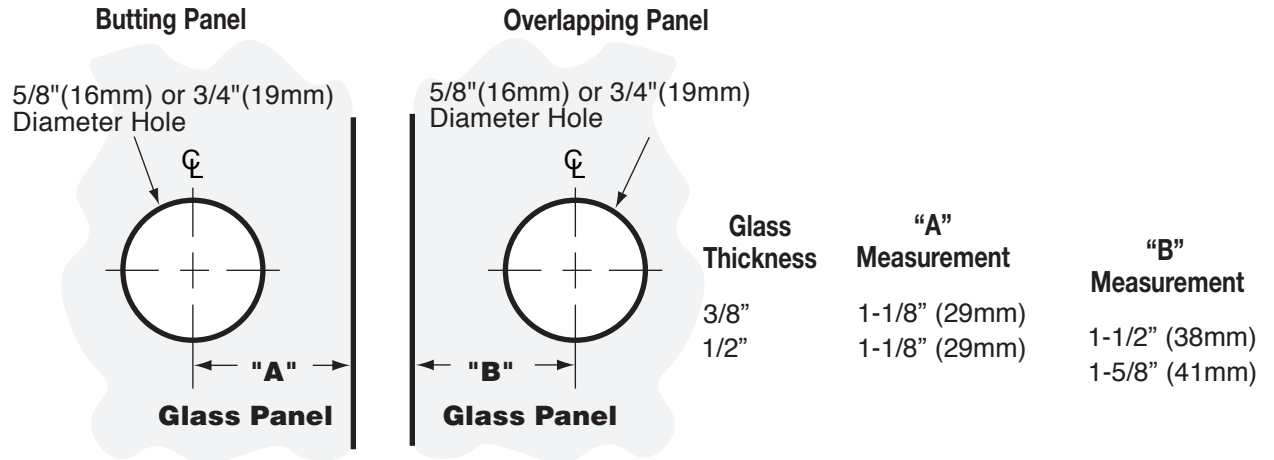


TYPICAL INSTALLATION

Important: Project measurements from the edge of the glass

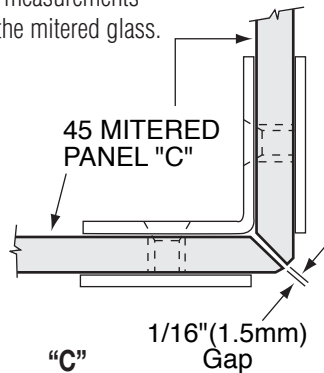


TEMPLATE OPTION FOR SQUARE CUT GLASS



TYPICAL INSTALLATION

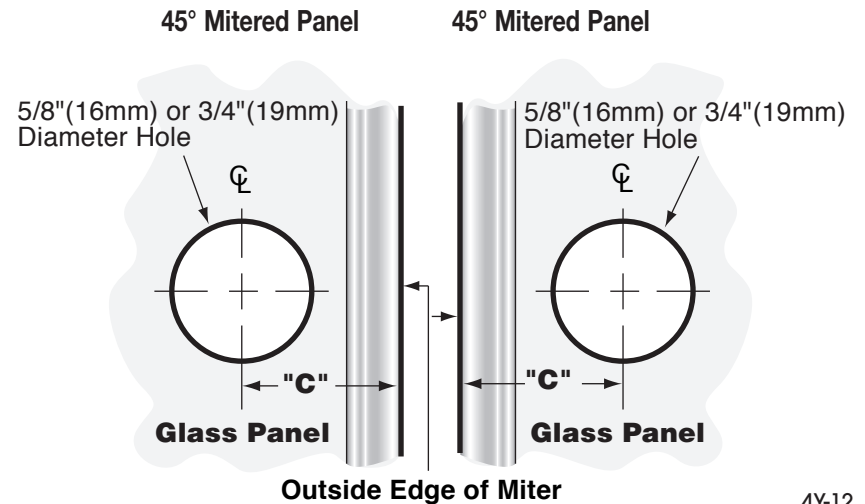
Important: Project measurements from the outside of the mitered glass.



Glass Thickness	"C" Measurement
3/8"	1-7/16" (37mm)*
1/2"	1-9/16" (40mm)*

*From the Outside Edge of Miter

TEMPLATE OPTION FOR 45° MITERED GLASS



GLASS CLAMPS

The Template Options on This Page Apply to the Following Clamps: 90° Glass Clamp

CAT. No. EST111



C.R. LAURENCE CO., INC.
PROFESSIONAL QUALITY

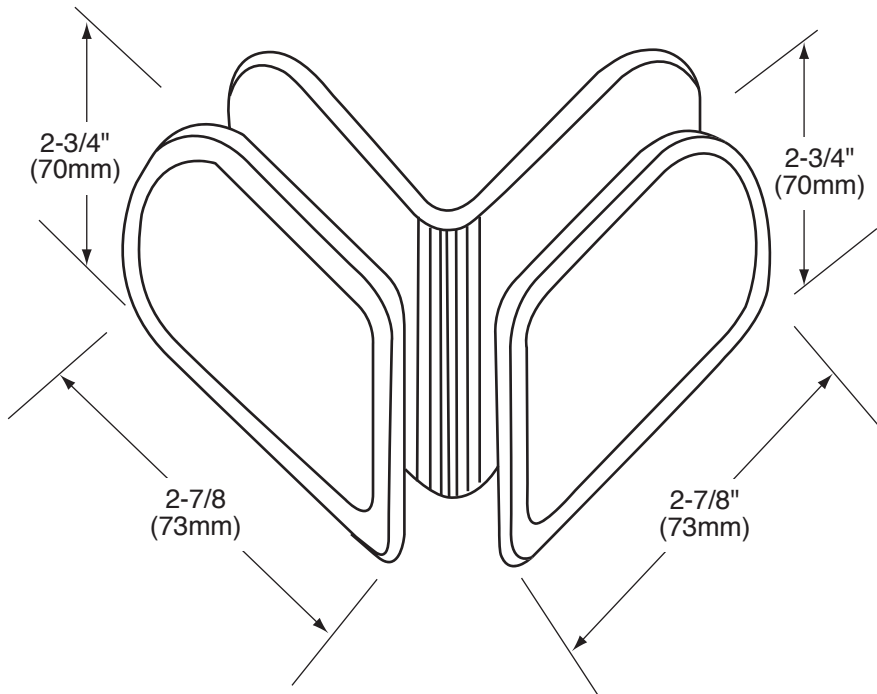
Specifications:

Material: Solid brass

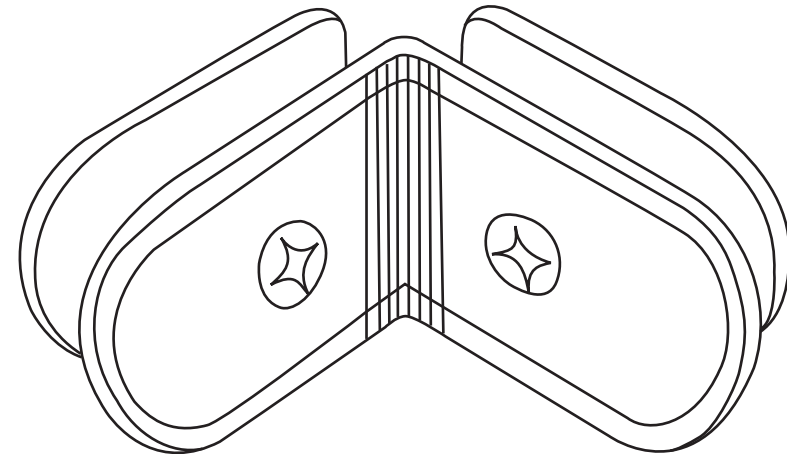
Glass Thickness Range: 1/4" (6mm) to 5/16" (8mm)

Hole Size Required: 5/8" (16mm) or 3/4" (19mm)

Includes: Mounting screws and gaskets



FRONT VIEW



REAR VIEW

GLASS CLAMPS

Berlin 90° Glass Clamp

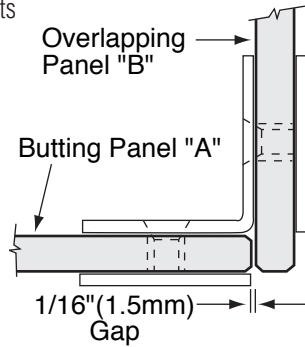
CAT. No. BER111

Template Shown on Next Page

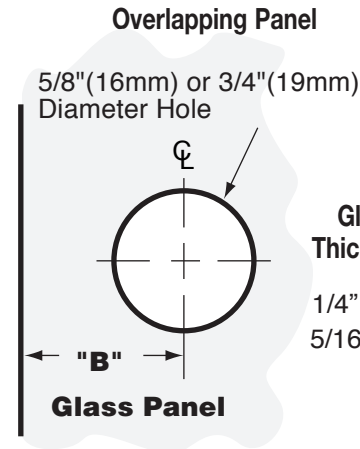
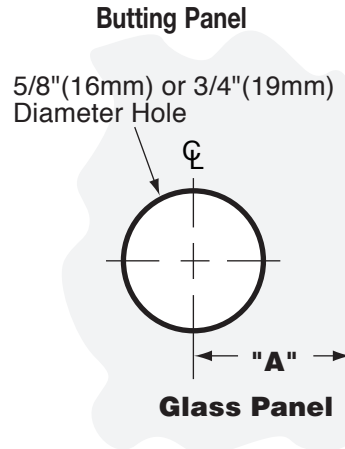


TYPICAL INSTALLATION

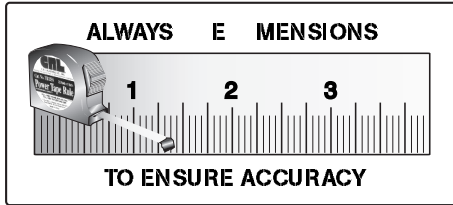
Important: Project measurements from the edge of the glass



TEMPLATE OPTION FOR SQUARE CUT GLASS

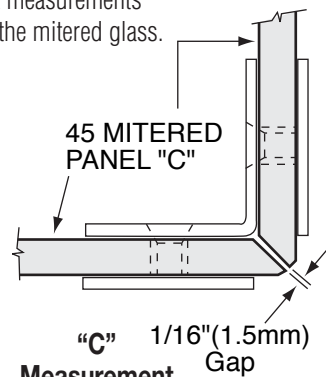


Glass Thickness	"A" Measurement	"B" Measurement
1/4" (6mm)	1-1/2" (38mm)	1-13/16" (46mm)
5/16" (8mm)	1-1/2" (38mm)	1-13/16" (46mm)



TYPICAL INSTALLATION

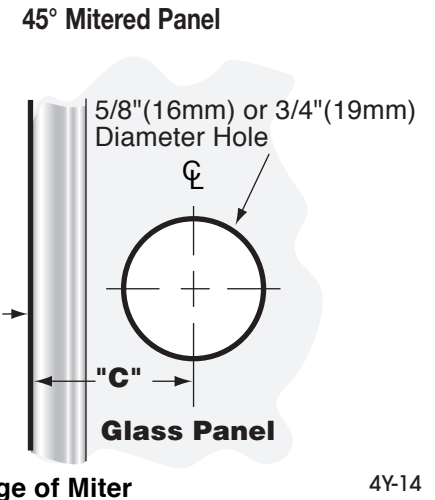
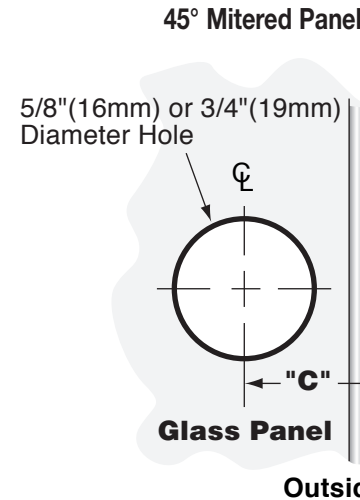
Important: Project measurements from the outside of the mitered glass.



Glass Thickness	"C" Measurement
1/4" (6mm)	1-11/16" (43mm)*
5/16" (8mm)	1-3/4" (44mm)*

*From the Outside Edge of Miter

TEMPLATE OPTION FOR 45° MITERED GLASS



GLASS CLAMPS

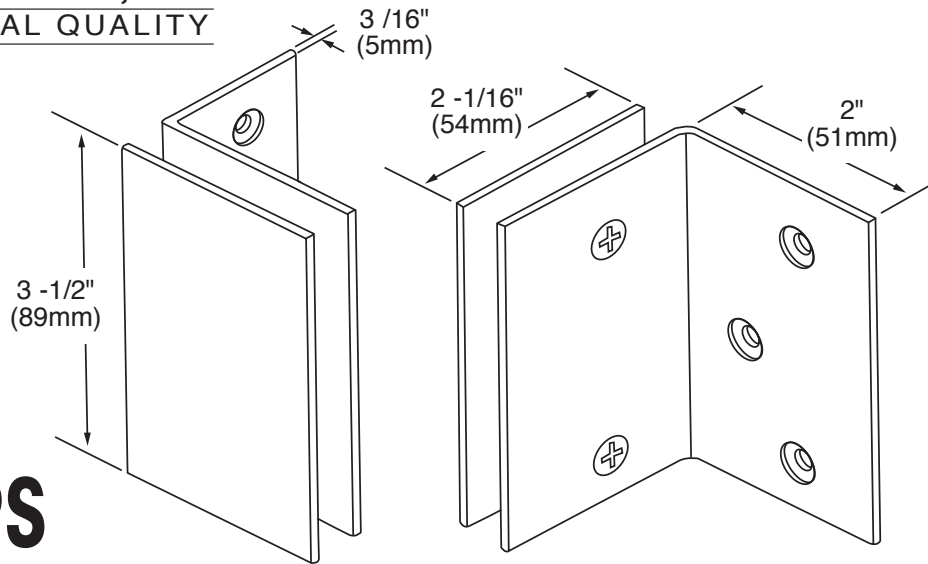
The Template Options on This Page Apply to the Following Clamps:

Berlin 90° Glass Clamp

CAT. No. BER111



C.R. LAURENCE CO., INC.
PROFESSIONAL QUALITY



FRONT VIEW

REAR VIEW

Specifications:

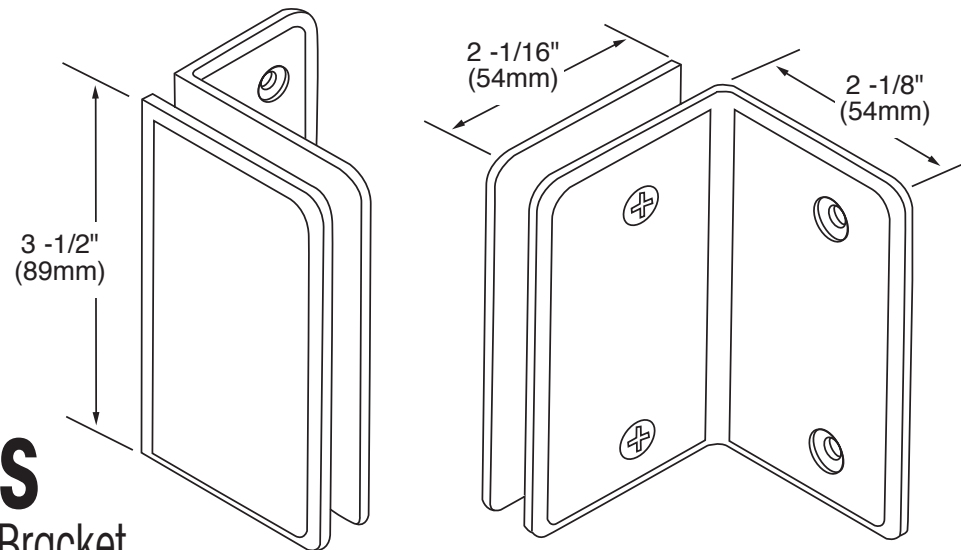
Material: Solid Brass
Glass Thickness: 3/8" (10mm) to 1/2" (12mm)
Hole Size Required: 3/4" (19mm)
Includes: Mounting screws and gaskets

GLASS CLAMPS

Geneva Wall Bracket

CAT No. GE90S

Template Shown on Next Page



FRONT VIEW

REAR VIEW

Specifications:

Material: Solid Brass
Glass Thickness: 3/8" (10mm) to 1/2" (12mm)
Hole Size Required: 3/4" (19mm)
Includes: Mounting screws and gaskets

GLASS CLAMPS

Pinnacle and Prima Wall Bracket

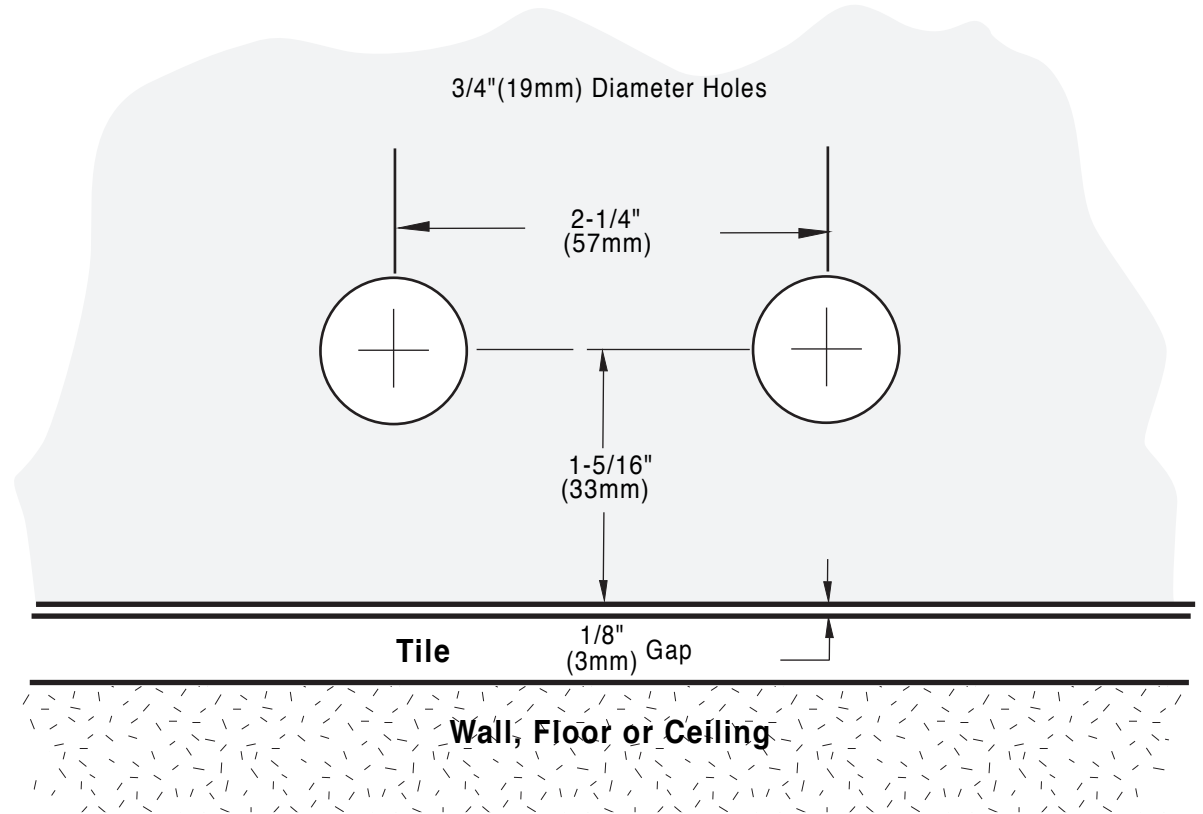
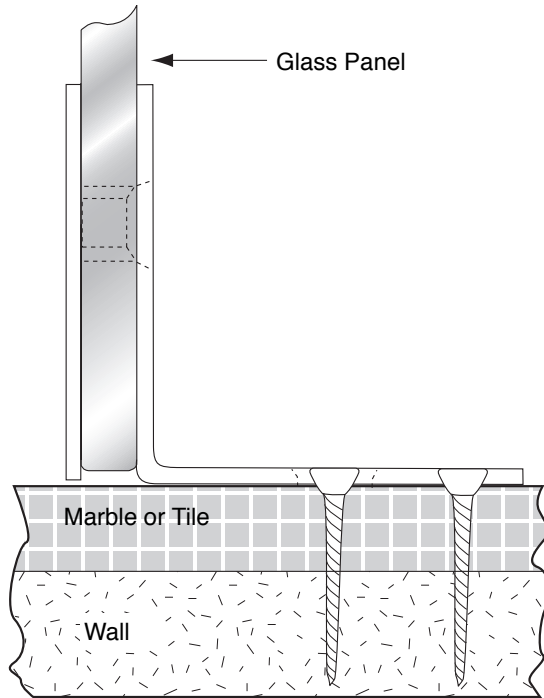
CAT No. P190S

Template Shown on Next Page



IMPORTANT: Project measurements from the edge of the glass.

TYPICAL INSTALLATION



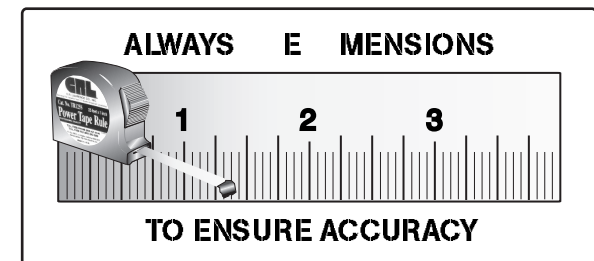
GLASS CLAMPS

Geneva Wall Mount Bracket

CAT No. GE90S

Pinnacle and Prima Wall Bracket

CAT No. P190S



4Y-16



C.R. LAURENCE CO., INC.
PROFESSIONAL QUALITY

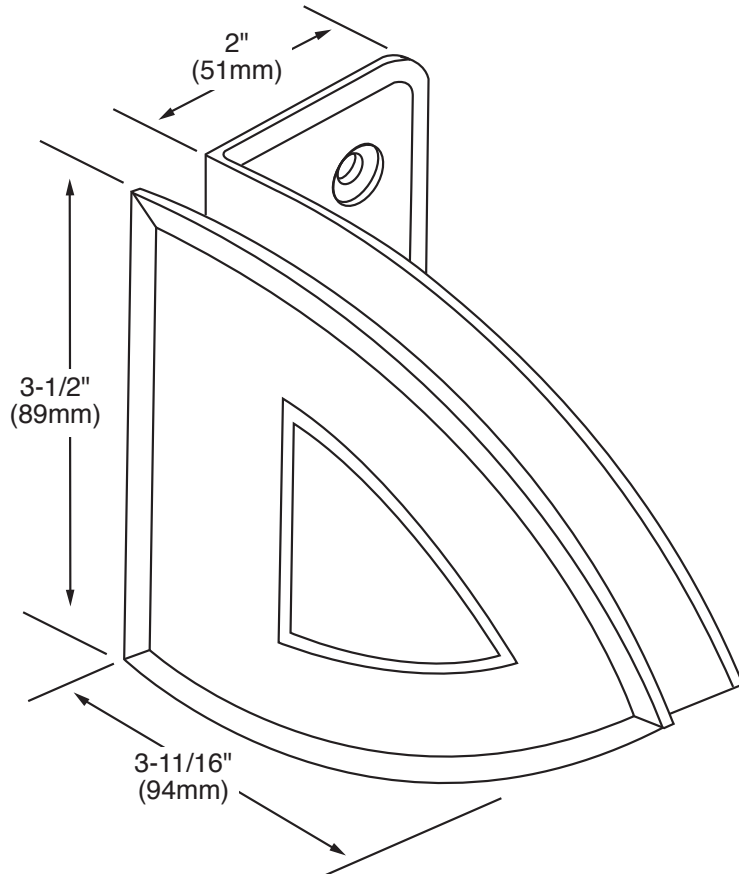
Specifications:

Material: Solid Brass

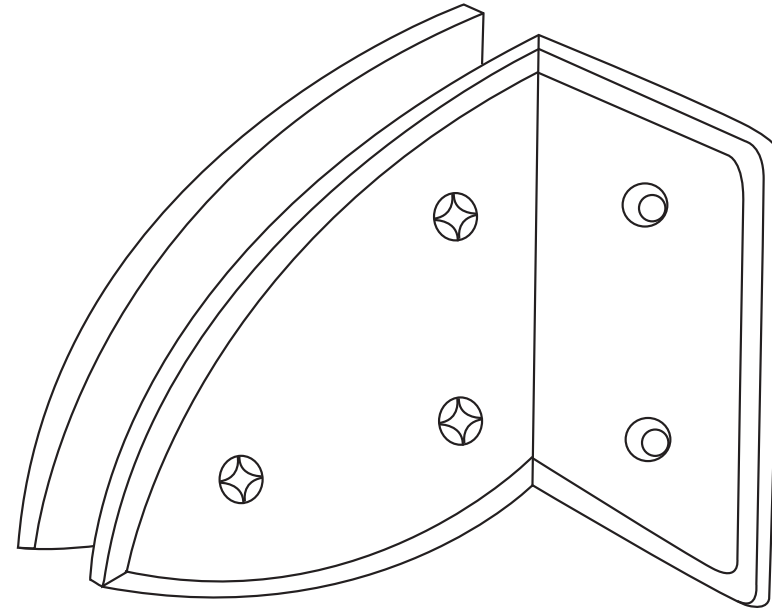
Glass Thickness: 3/8" (10mm) to 1/2" (12mm)

Hole Size Required: 3/4" (19mm)

Includes: Mounting screws and gaskets



FRONT VIEW



REAR VIEW

GLASS CLAMPS

Cathedral Wall Bracket

CAT No. CA90S

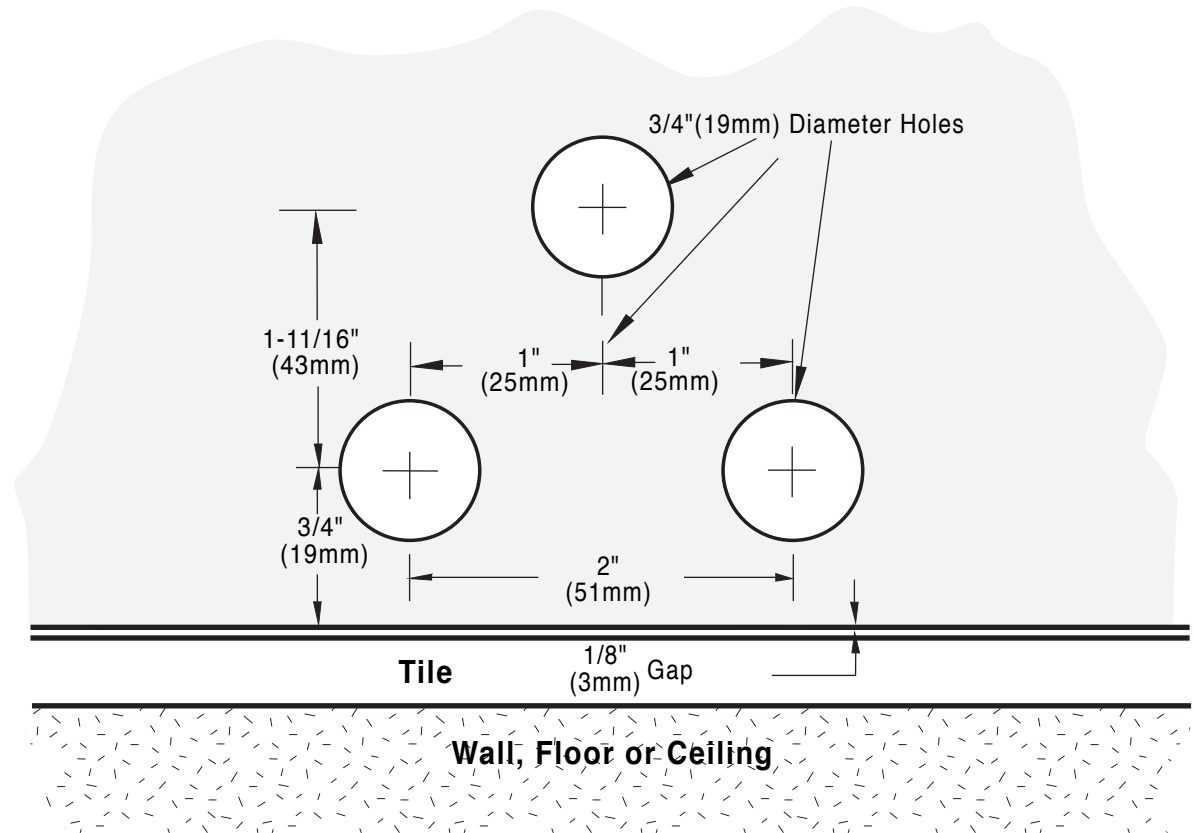
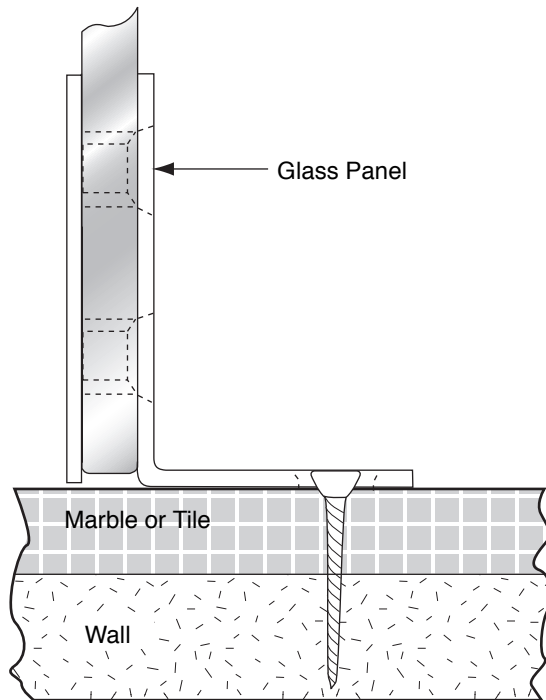
Template Shown on Next Page



C.R. LAURENCE CO., INC.
PROFESSIONAL QUALITY

TYPICAL INSTALLATION

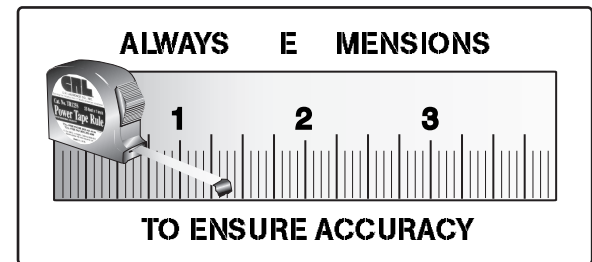
IMPORTANT: Project measurements from the edge of the glass.



GLASS CLAMPS

Cathedral Wall Bracket

CAT No. CA90S



C.R. Laurence Co., Inc.
crlaurence.com

For technical assistance in the United States call toll free (800) 421-6144; from Canada call toll free (877) 421-6144; Outside the U.S. and Canada call (323) 588-1281. Ask for Tech Sales at Extension 7740. Toll free fax (800) 458-7496.

© Copyright 2005, C.R. Laurence Co., Inc._SDT21_US



C.R. LAURENCE CO., INC.
PROFESSIONAL QUALITY

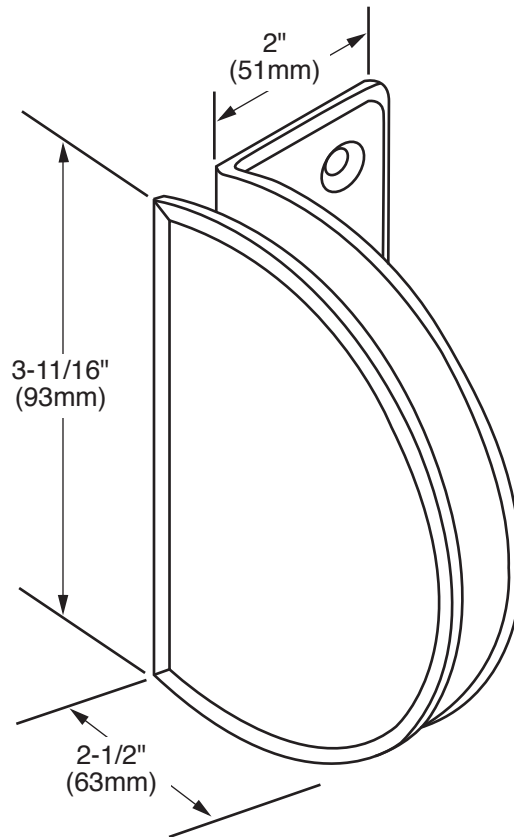
Specifications:

Material: Solid Brass

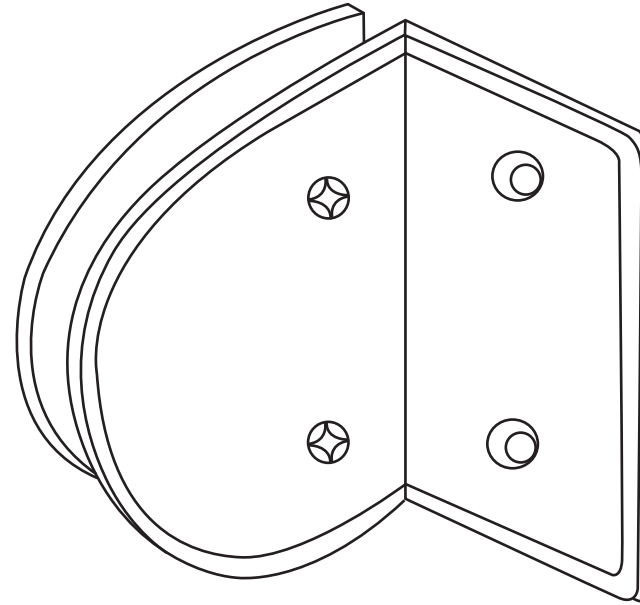
Glass Thickness: 5/16" (8mm) to 3/8" (10mm)

Hole Size Required: 5/8" (16mm)

Includes: Mounting screws and gaskets



FRONT VIEW



REAR VIEW

GLASS CLAMPS

Classique Wall Bracket

CAT. No. CL90S

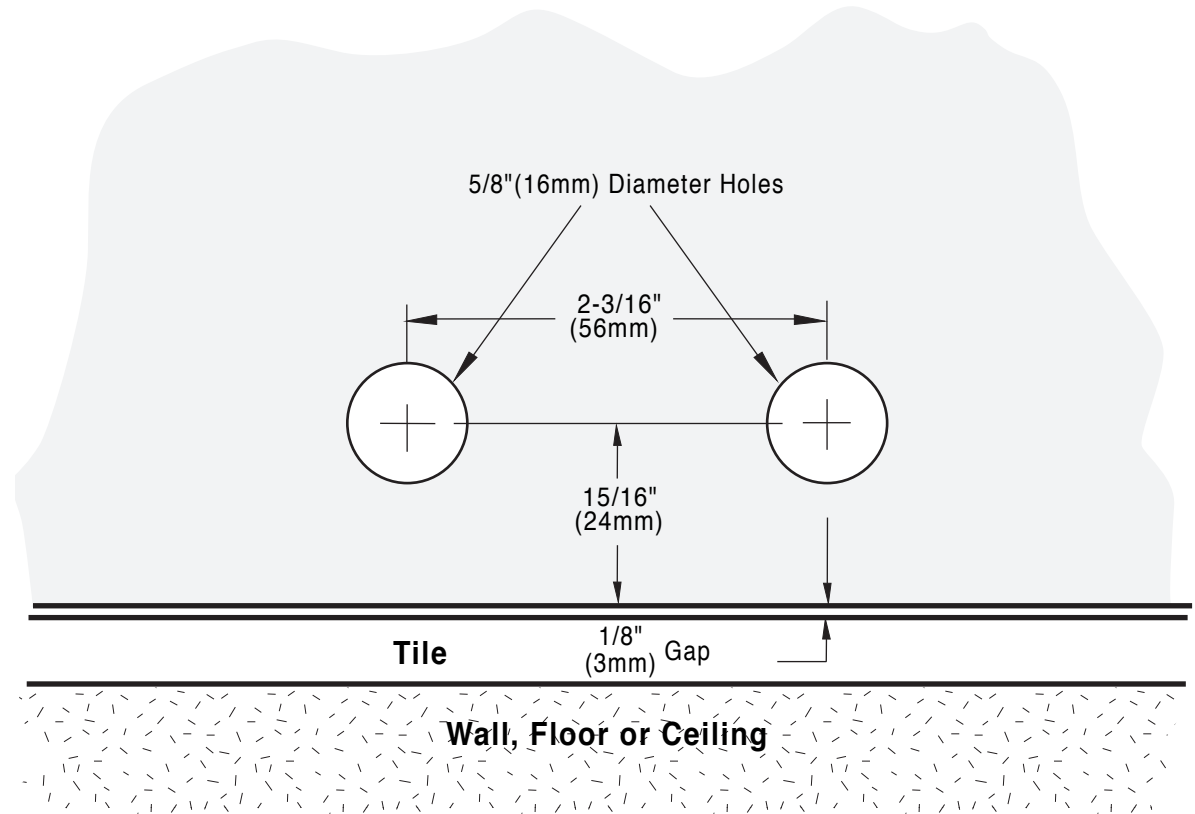
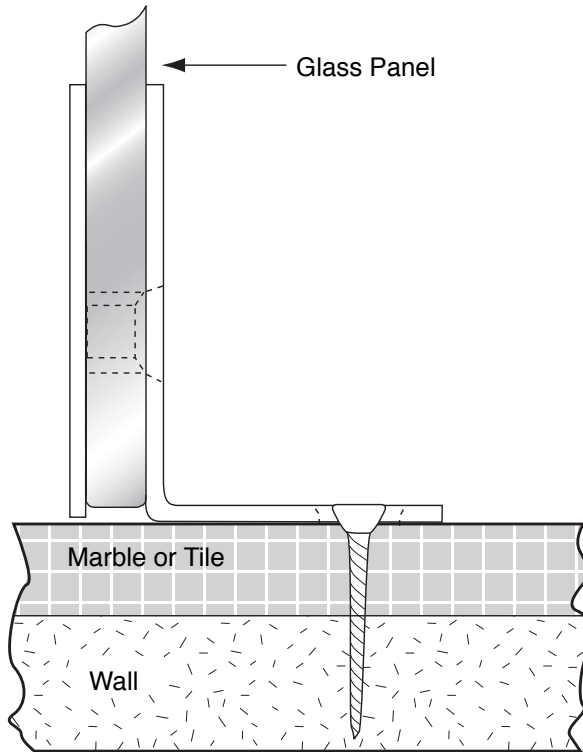
Template Shown on Next Page



C.R. LAURENCE CO., INC.
PROFESSIONAL QUALITY

TYPICAL INSTALLATION

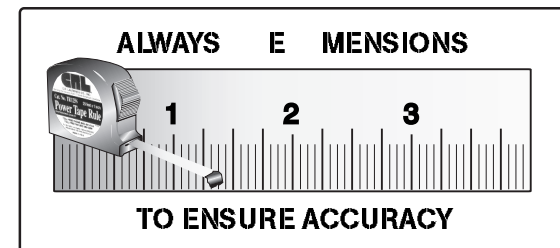
IMPORTANT: Project measurements from the edge of the glass.



GLASS CLAMPS

Classique Wall Bracket

CAT. No. CL90S



4Y-20

C.R. Laurence Co., Inc.
 crlaurence.com

For technical assistance in the United States call toll free (800) 421-6144; from Canada call toll free (877) 421-6144; Outside the U.S. and Canada call (323) 588-1281. Ask for Tech Sales at Extension 7740. Toll free fax (800) 458-7496.

© Copyright 2005, C.R. Laurence Co., Inc_SDT21_US



C.R. LAURENCE CO., INC.
PROFESSIONAL QUALITY

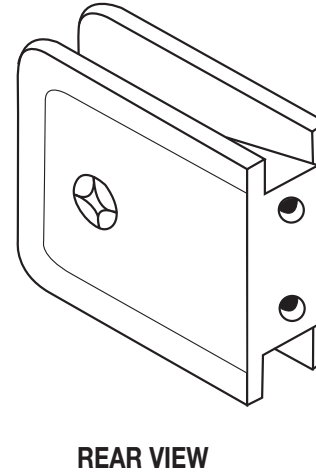
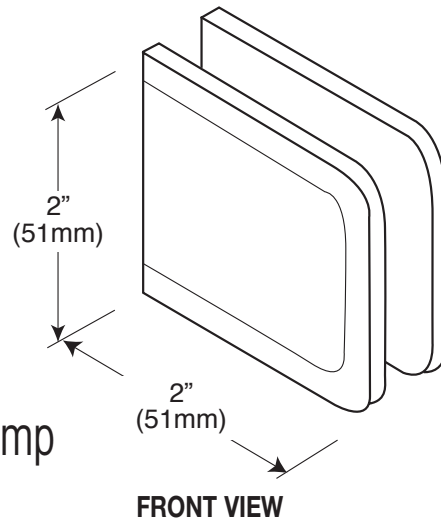
Specifications:

Material: Solid brass
Glass Thickness Range: 3/8"(10mm) to 1/2"(12mm)
Fabrication Required: Notch
Includes: Mounting Screws and Gaskets

HEAVY DUTY GLASS CLAMPS

Beveled Wall Mount Clamp

CAT. No.BGCU1

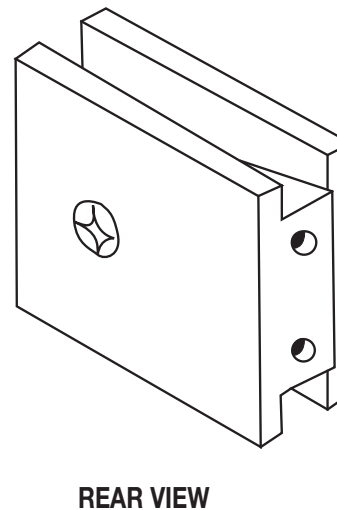
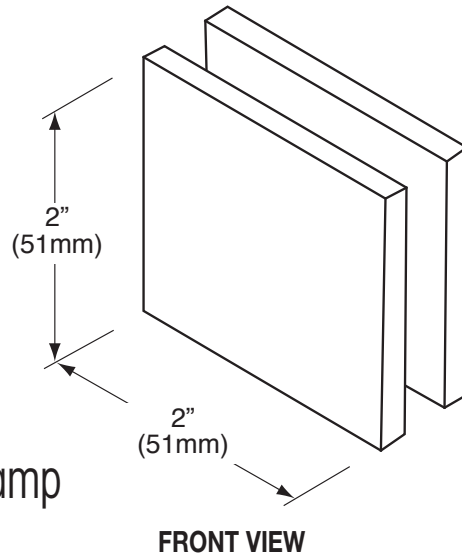


Template Shown on Next Page

HEAVY DUTY GLASS CLAMPS

Square Wall Mount Clamp

CAT. No.SGCU1



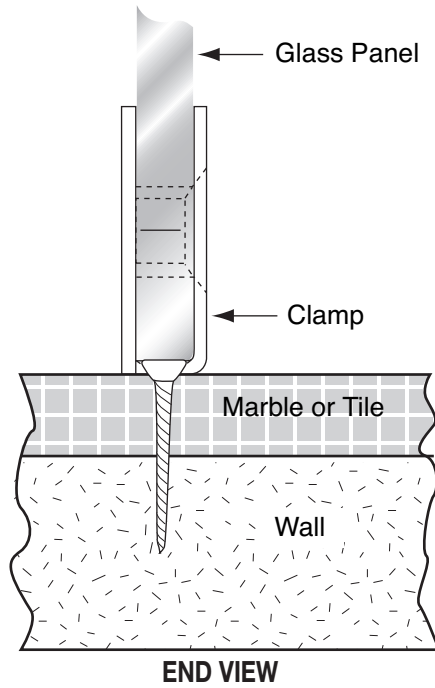
Specifications:

Material: Solid brass
Glass Thickness Range: 3/8"(10mm) to 1/2"(12mm)
Fabrication Required: Notch
Includes: Mounting Screws and Gaskets

Template Shown on Next Page

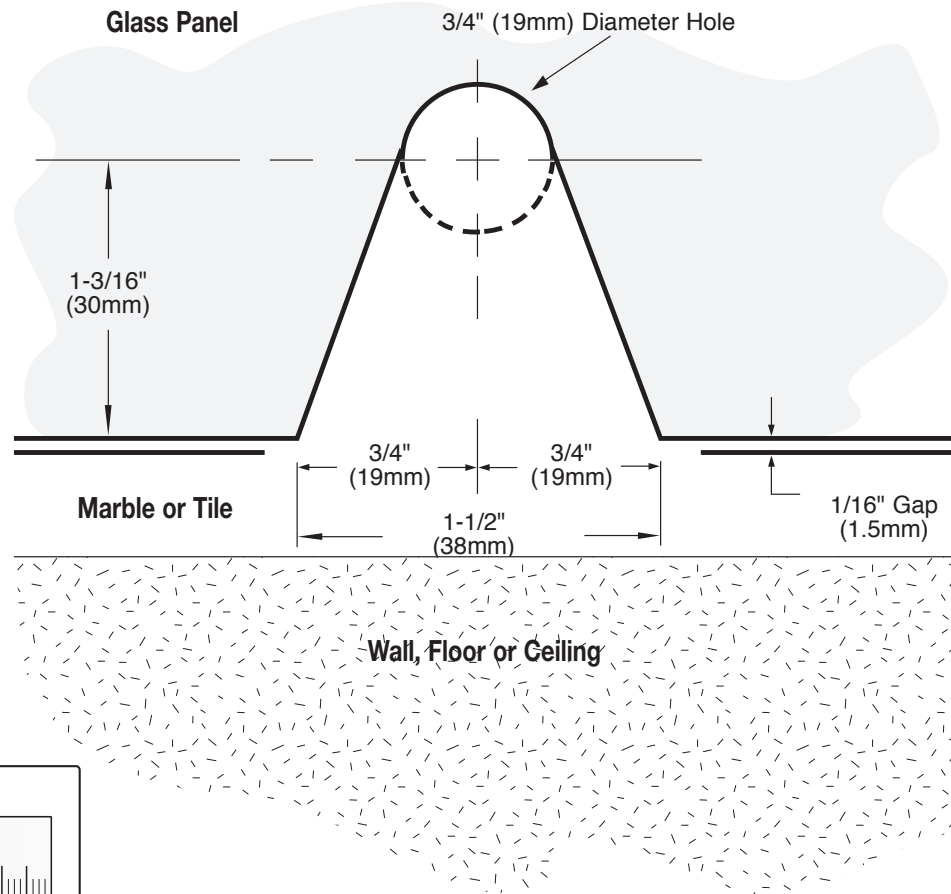


TYPICAL INSTALLATION



TEMPLATE

Important: Project measurements from the edge of the glass



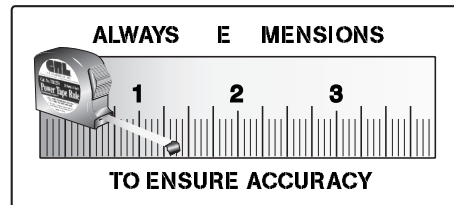
GLASS CLAMPS

Beveled Wall Mount Clamp

CAT. No.BGCU1

Square Wall Mount Clamp

CAT. No.SGCU1





C.R. LAURENCE CO., INC.
PROFESSIONAL QUALITY

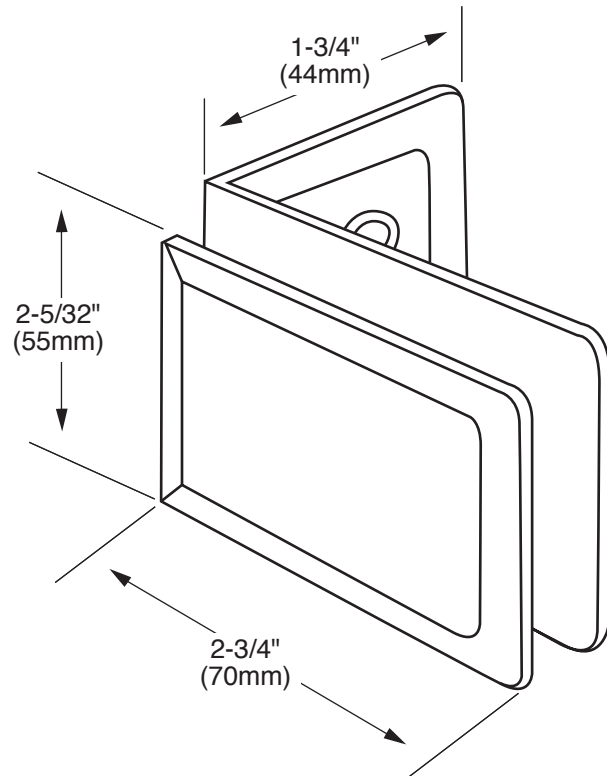
Specifications:

Material: Solid Brass

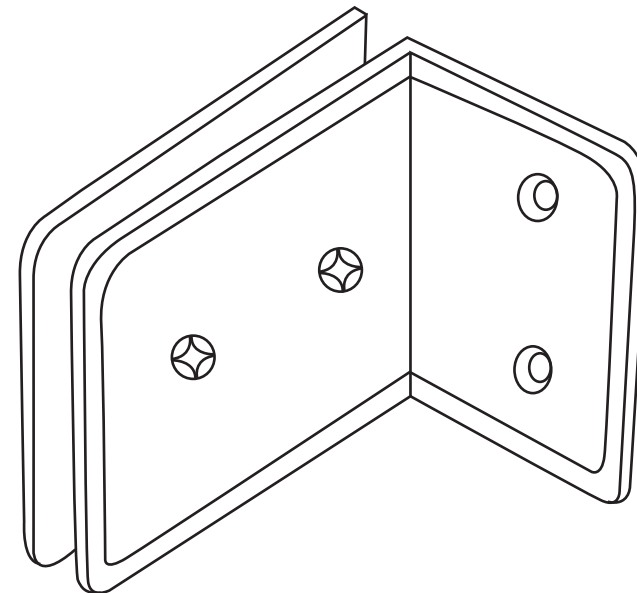
Glass Thickness: 5/16" (8mm) to 3/8" (10mm)

Hole Size Required: 3/4" (19mm) and notch

Includes: Mounting screws and gaskets



FRONT VIEW



REAR VIEW

GLASS CLAMPS

Grande Wall Bracket

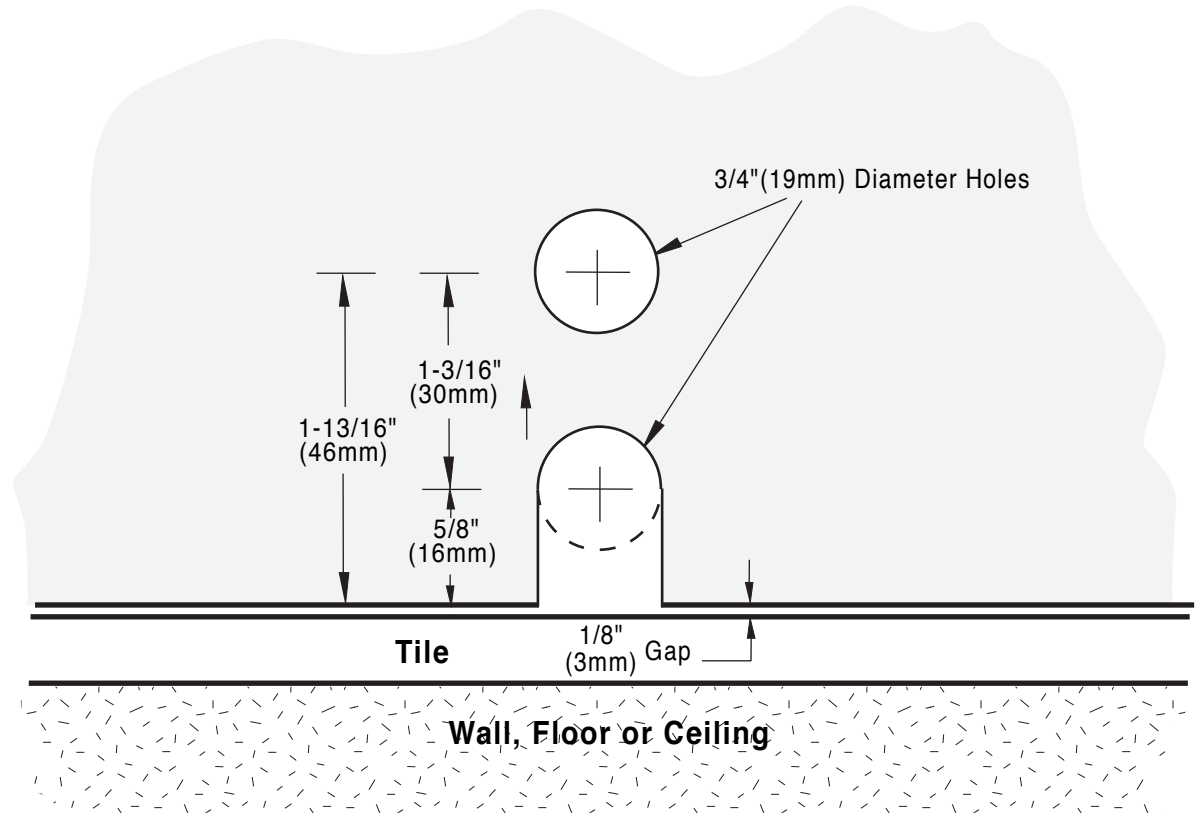
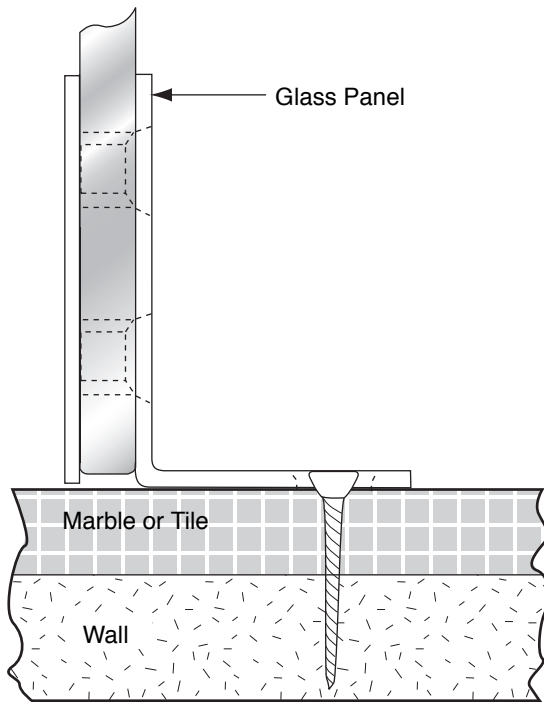
CAT No. GR90S

Template Shown on Next Page

4Y-21



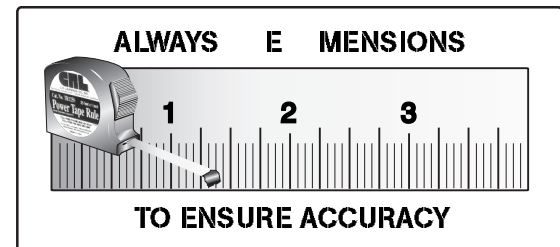
TYPICAL INSTALLATION



GLASS CLAMPS

Grande Wall Bracket

CAT No. GR90S





C.R. LAURENCE CO., INC.
PROFESSIONAL QUALITY

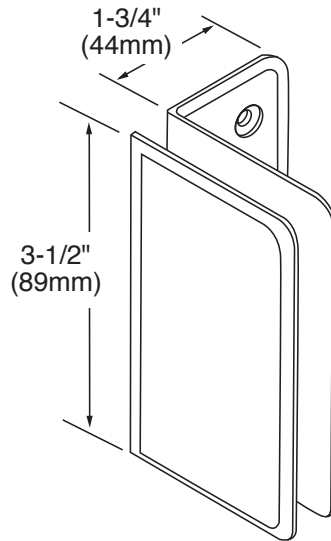
Specifications:

Material: Solid Brass
Glass Thickness: 1/4" (6mm) to 5/16" (8mm)
Hole Size Required: 5/8" (16mm)
Includes: Mounting screws and gaskets

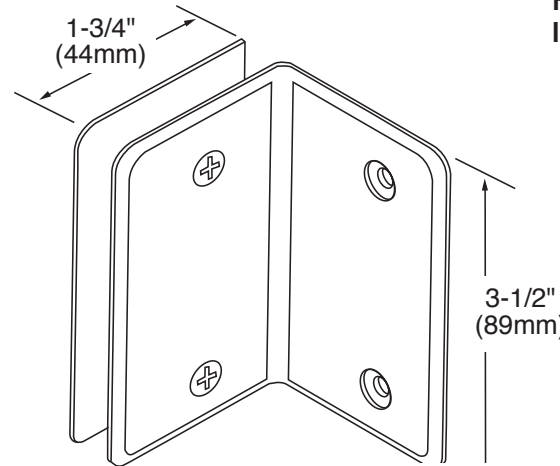
GLASS CLAMPS

Petite Wall Bracket

CAT No. PE90S



FRONT VIEW



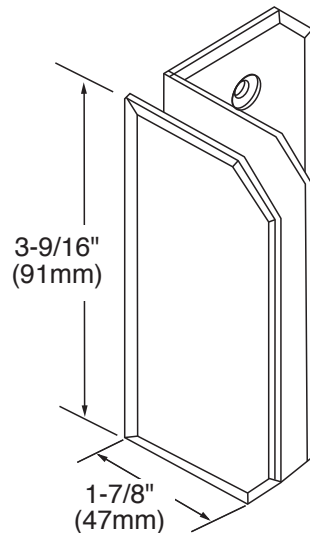
REAR VIEW

Template Shown on Next Page

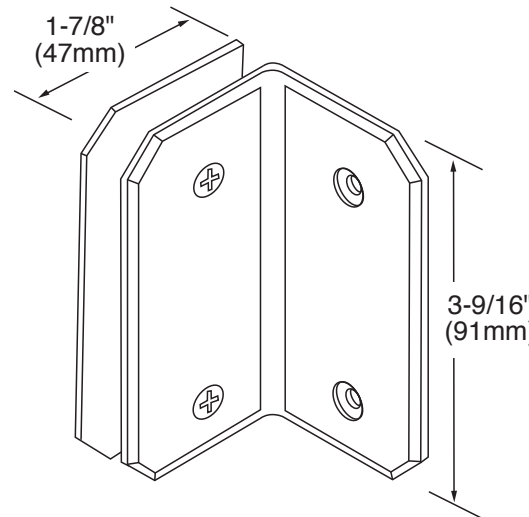
GLASS CLAMPS

Monaco Wall Bracket

CAT No. M090S



FRONT VIEW



REAR VIEW

Specifications:

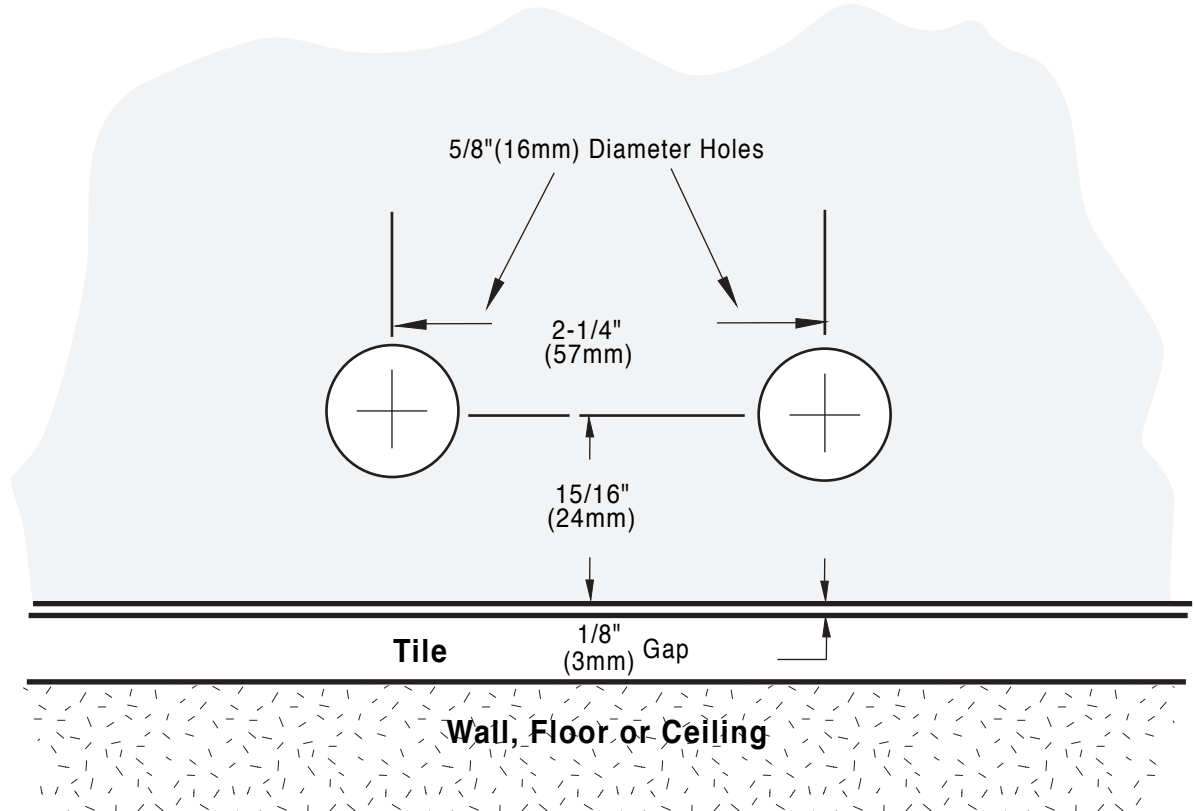
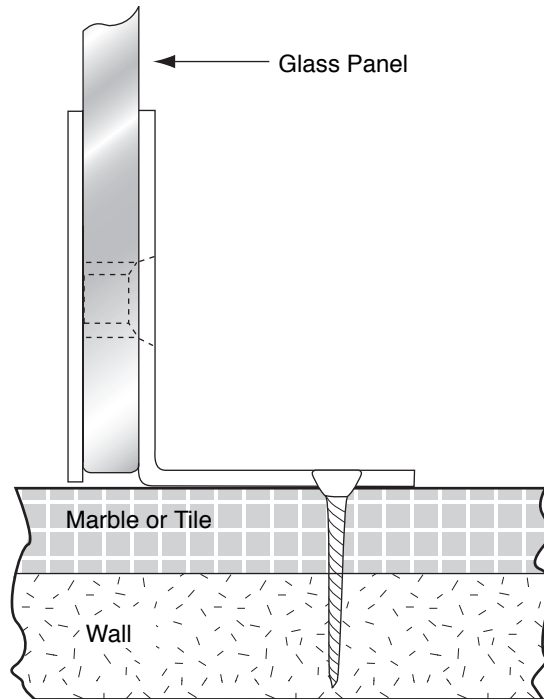
Material: Solid Brass
Glass Thickness: 1/4" (6mm) to 5/16" (8mm)
Hole Size Required: 5/8" (16mm)
Includes: Mounting screws and gaskets

Template Shown on Next Page



IMPORTANT: Project measurements from the edge of the glass.

TYPICAL INSTALLATION



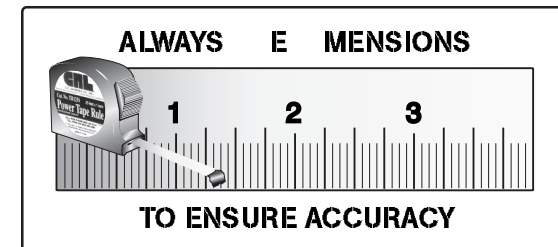
GLASS CLAMPS

Petite Wall Bracket

CAT No. PE90S

Monaco Wall Bracket

CAT No. M090S





C.R. LAURENCE CO., INC.
PROFESSIONAL QUALITY

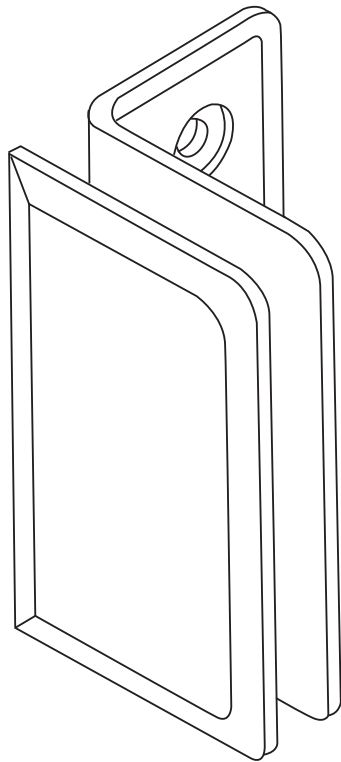
Specifications:

Material: Solid Brass

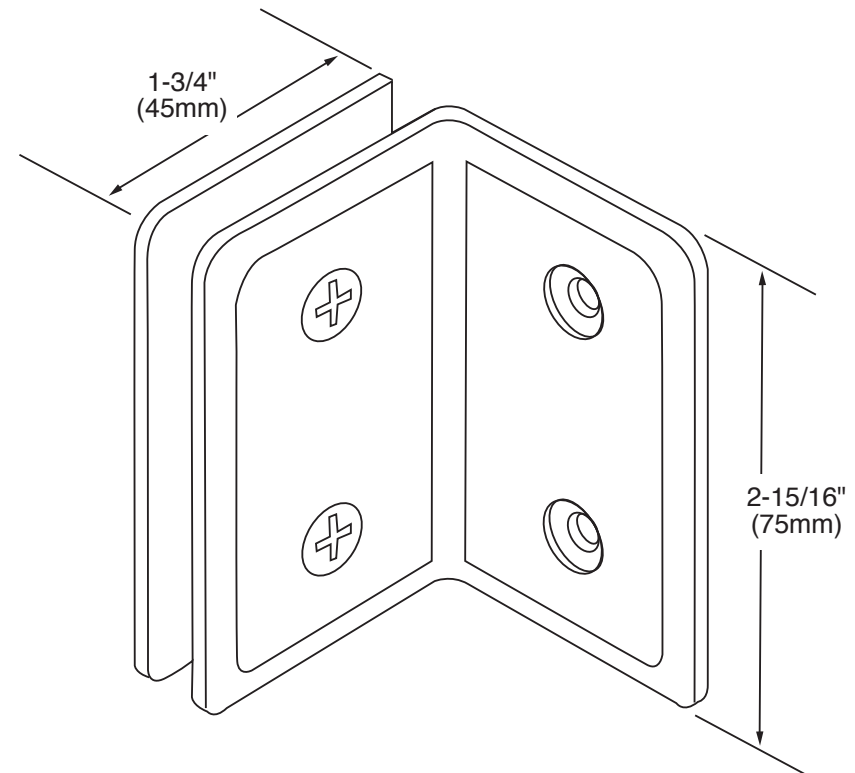
Glass Thickness: 1/4" (6mm) to 5/16" (8mm)

Hole Size Required: 5/8" (16mm)

Includes: Mounting screws and gaskets



FRONT VIEW



REAR VIEW

GLASS CLAMPS

Trianon Wall Bracket

CAT No. TR90S

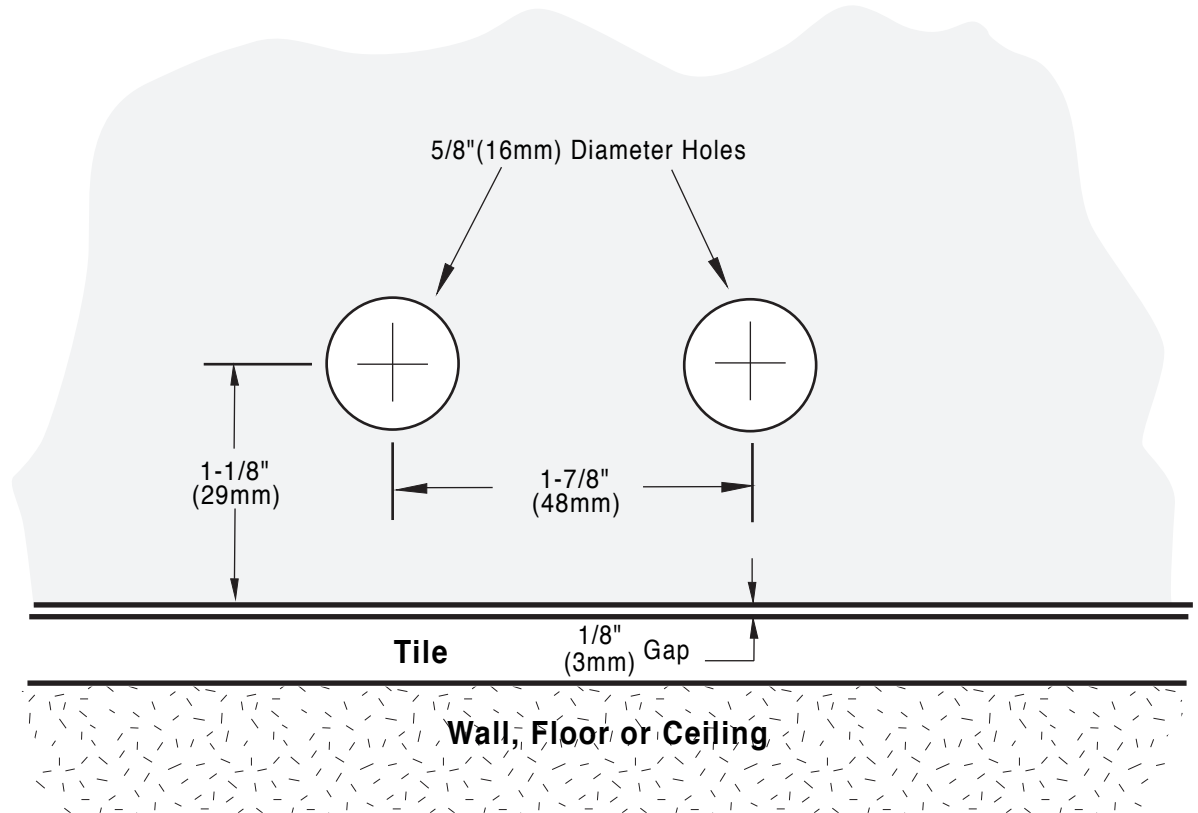
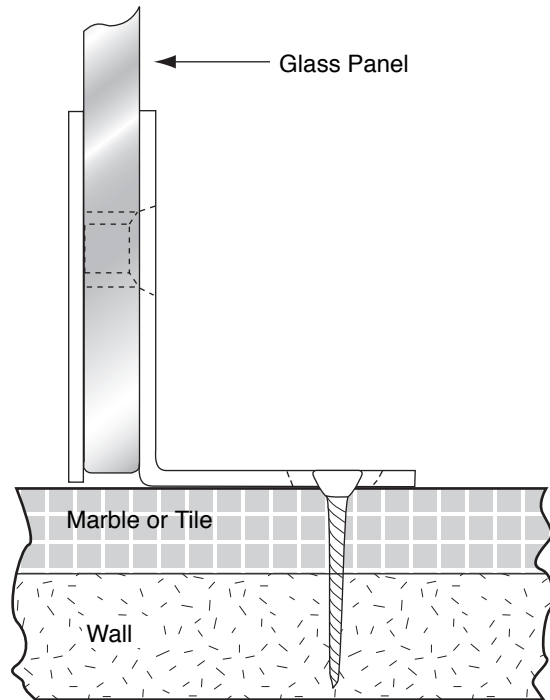
Template Shown on Next Page



C.R. LAURENCE CO., INC.
PROFESSIONAL QUALITY

TYPICAL INSTALLATION

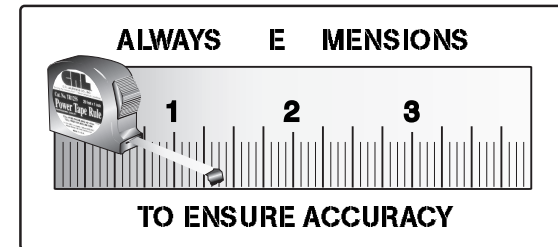
IMPORTANT: Project measurements from the edge of the glass.



GLASS CLAMPS

Trianon Wall Bracket

CAT No. TR90S



4Y-26

C.R. Laurence Co., Inc. For technical assistance in the United States call toll free (800) 421-6144; from Canada call toll free (877) 421-6144; crlaurence.com Outside the U.S. and Canada call (323) 588-1281. Ask for Tech Sales at Extension 7740. Toll free fax (800) 458-7496.

© Copyright 2005, C.R. Laurence Co., Inc_SDT21_US



C.R. LAURENCE CO., INC.
PROFESSIONAL QUALITY

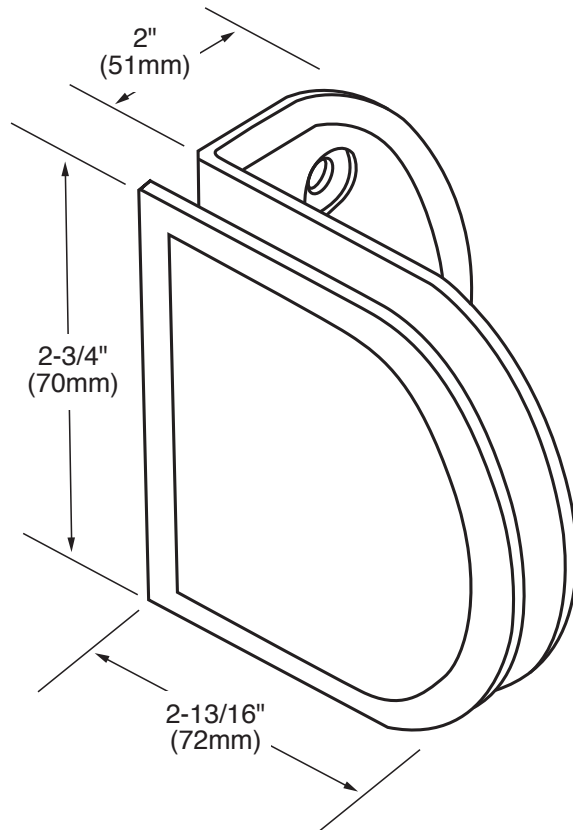
Specifications:

Material: Solid Brass

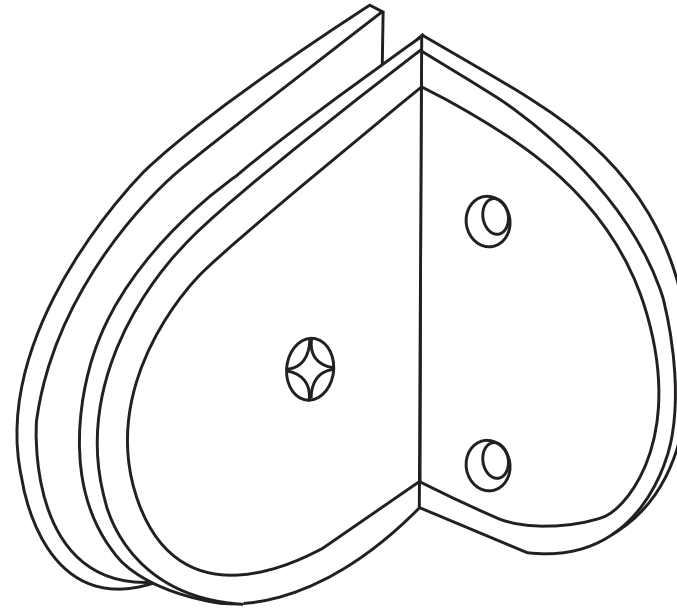
Glass Thickness: 1/4" (6mm) to 5/16" (8mm)

Hole Size Required: 3/4" (19mm)

Includes: Mounting screws and gaskets



FRONT VIEW



REAR VIEW

GLASS CLAMPS

Berlin Wall Bracket

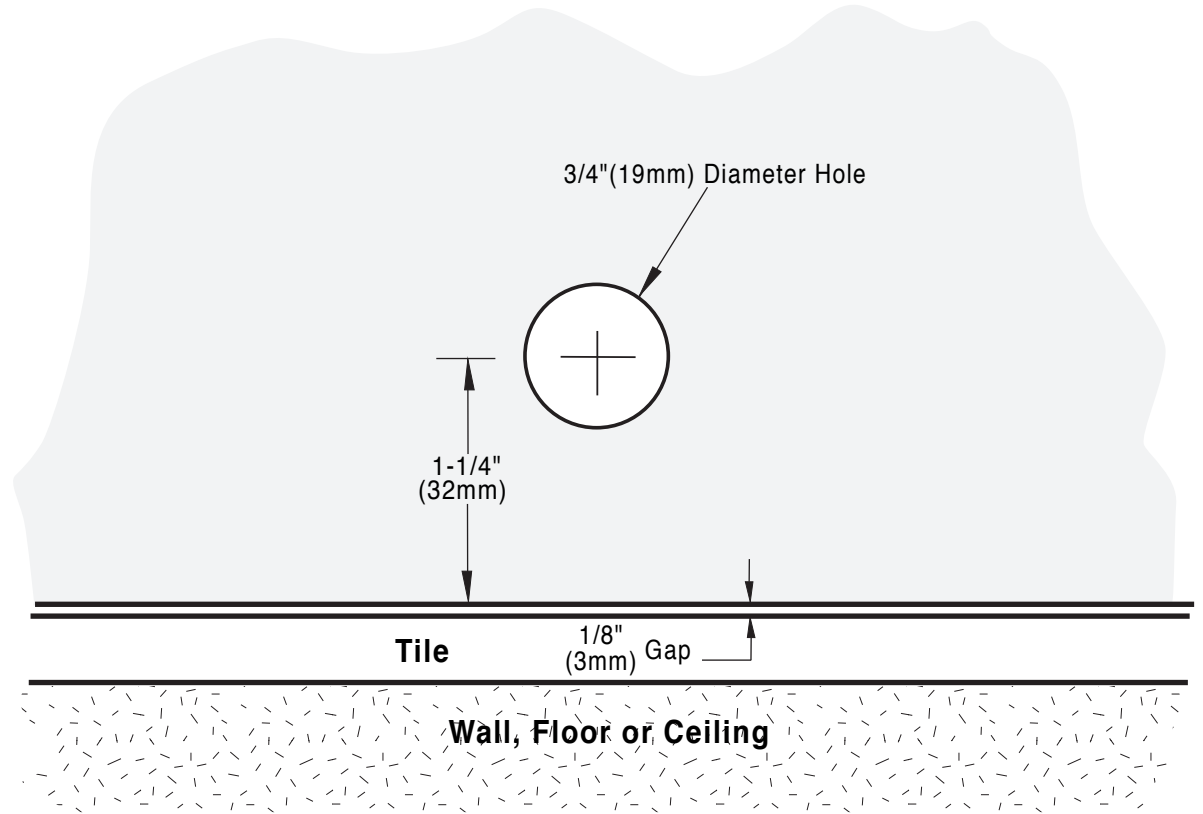
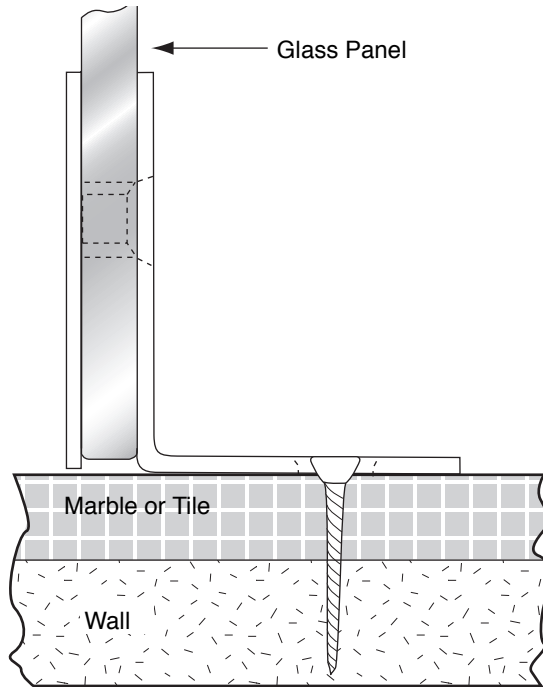
CAT No. BE90S

Template Shown on Next Page



IMPORTANT: Project measurements from the edge of the glass.

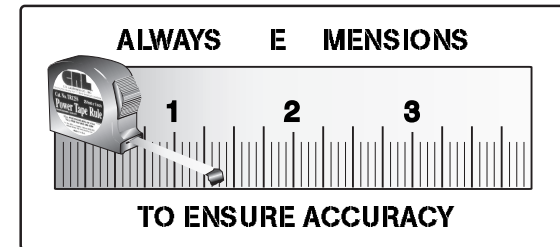
TYPICAL INSTALLATION



GLASS CLAMPS

Berlin Wall Bracket

CAT No. BE90S





C.R. LAURENCE CO., INC.
PROFESSIONAL QUALITY

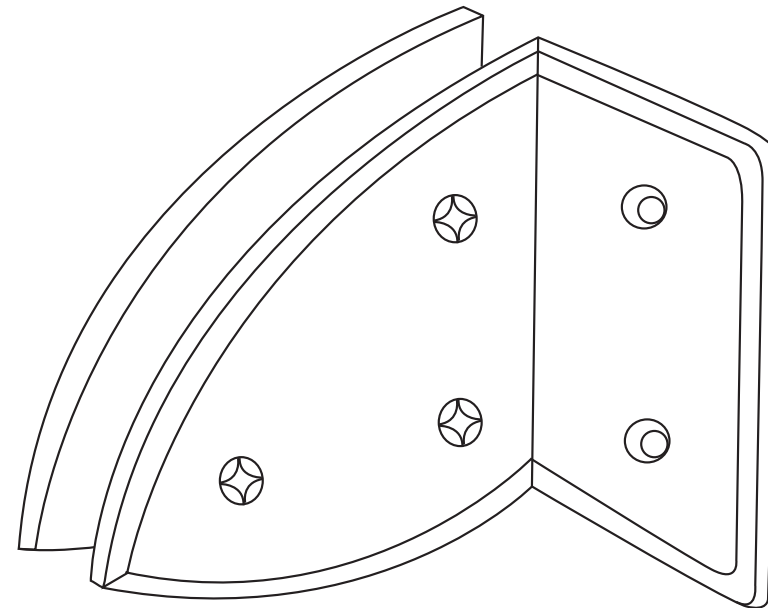
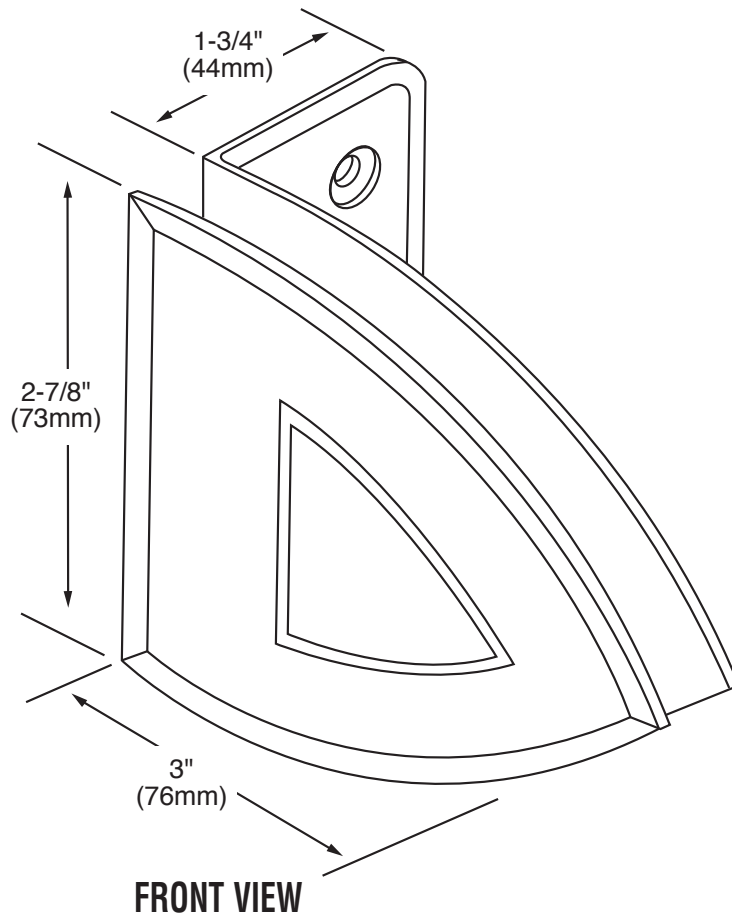
Specifications:

Material: Solid Brass

Glass Thickness: 1/4" (6mm) to 5/16" (8mm)

Hole Size Required: 5/8" (16mm) and Notch

Includes: Mounting screws and gaskets



GLASS CLAMPS

Junior Cathedral Wall Bracket

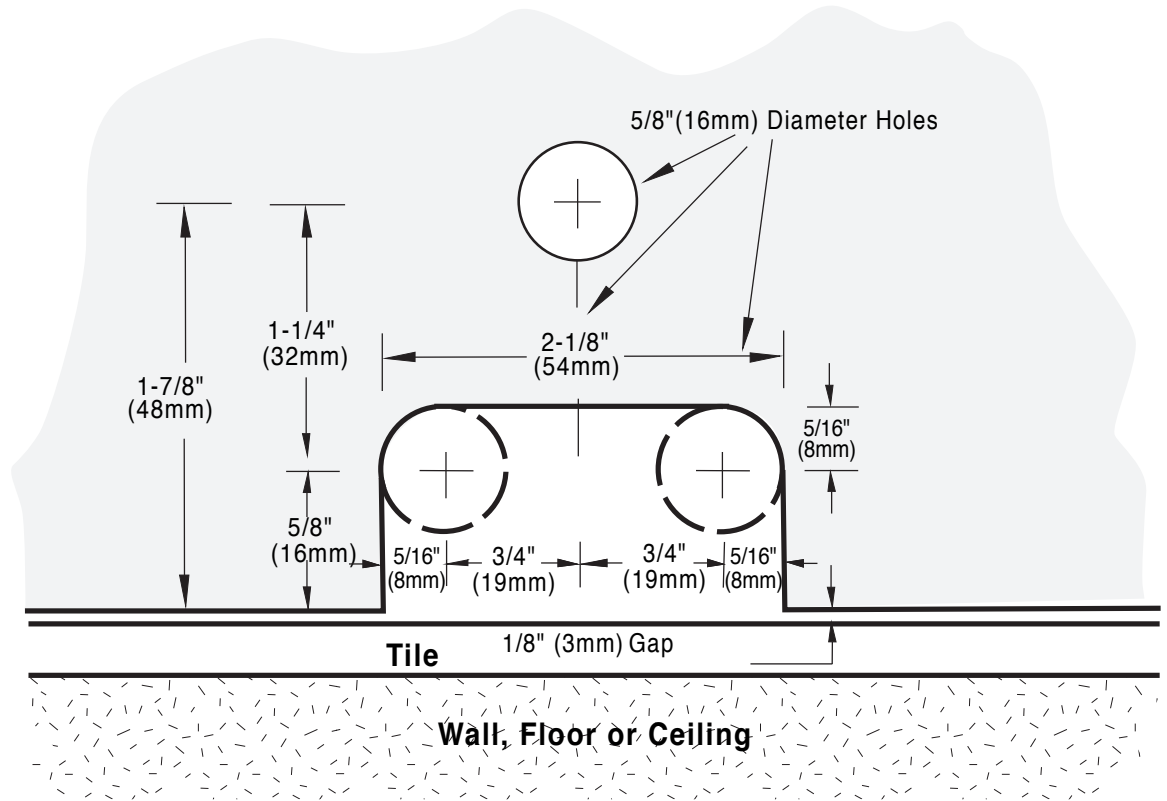
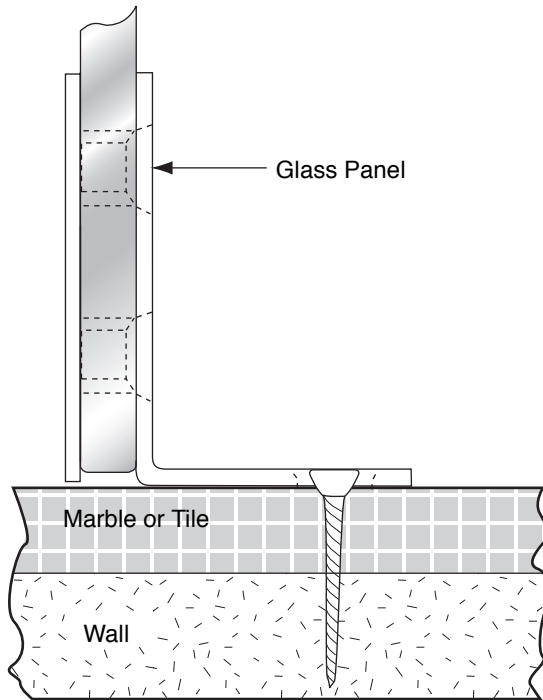
CAT No. JRCA90S

Template Shown on Next Page



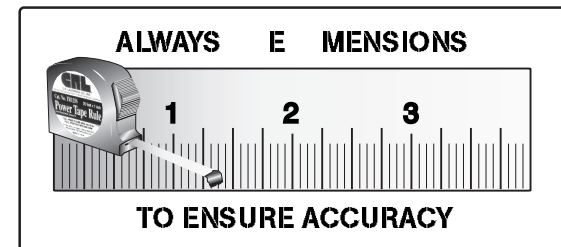
IMPORTANT: Project measurements from the edge of the glass.

TYPICAL INSTALLATION



GLASS CLAMPS

Junior Cathedral
CAT No. JRCA90S





C.R. LAURENCE CO., INC.
PROFESSIONAL QUALITY

Specifications:

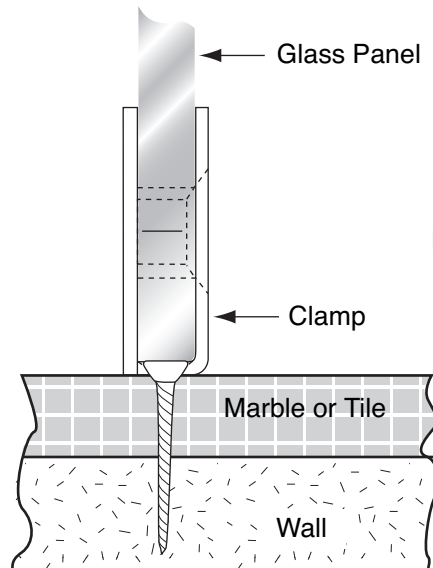
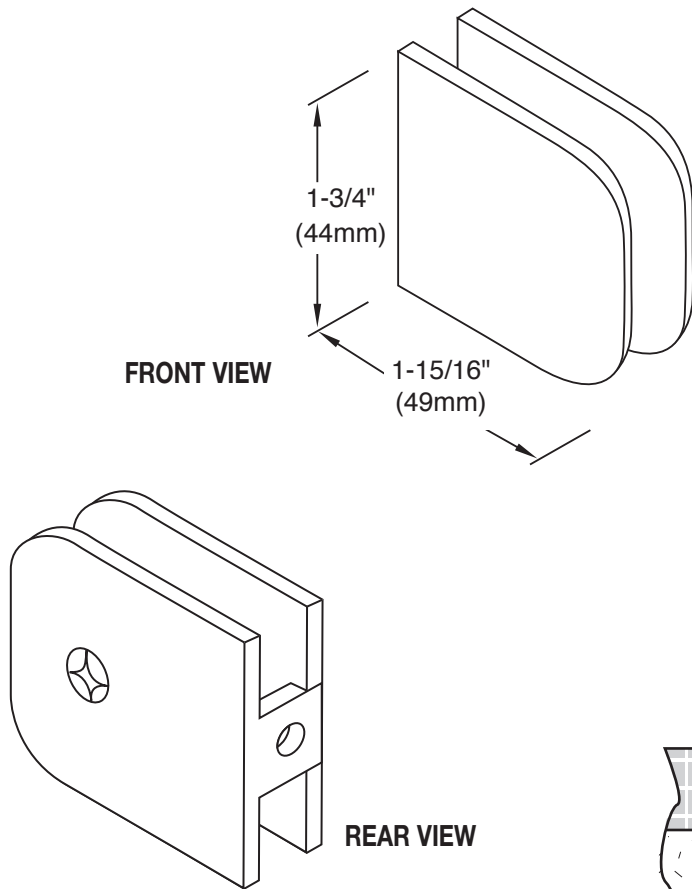
Material: Solid brass

Glass Thickness Range: 5/16" (8mm) to 1/2" (12mm)

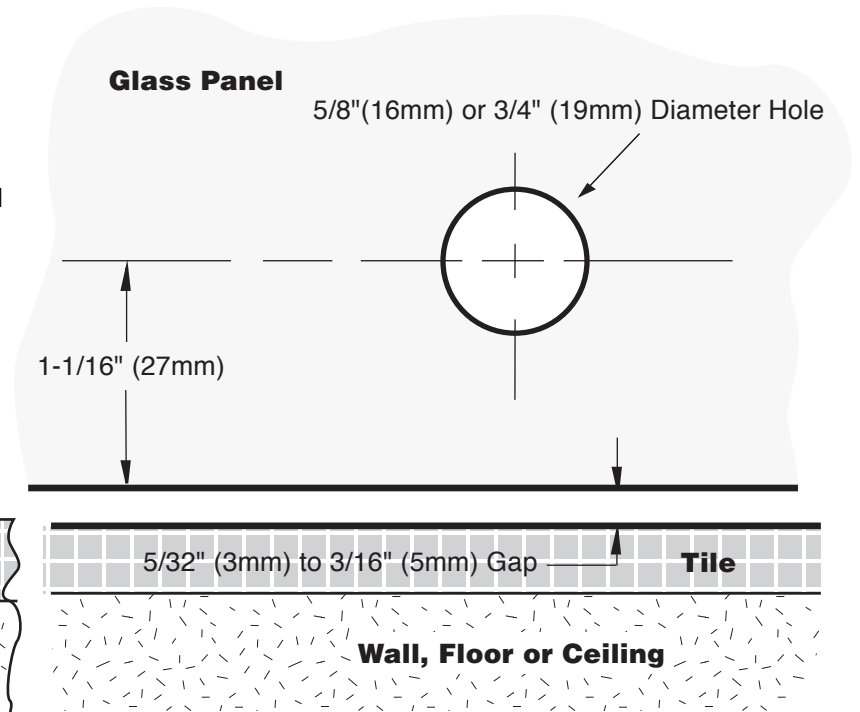
Hole Size Required: 5/8" (16mm) or 3/4" (19mm)

Includes: Mounting screws and gaskets

Note: An additional set of gaskets is required for 5/16" (8mm) glass



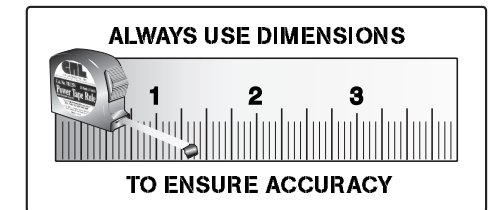
END VIEW



GLASS CLAMPS

Roman Fixed Panel U-Clamp

CAT. No. ROM79



4Y-31



C.R. LAURENCE CO., INC.
PROFESSIONAL QUALITY

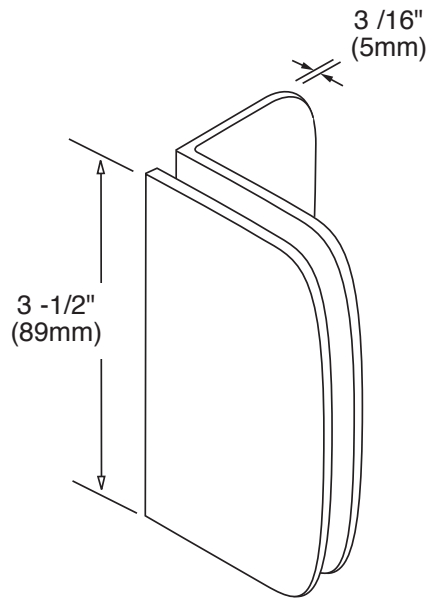
Specifications:

Material: Solid Brass

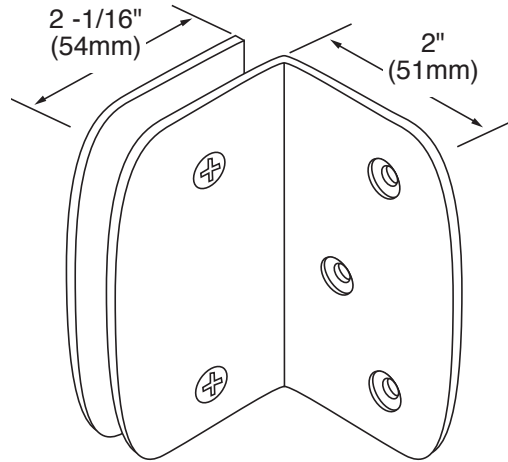
Glass Thickness: 3/8" (10mm) to 1/2" (12mm)

Hole Size Required: 3/4" (19mm)

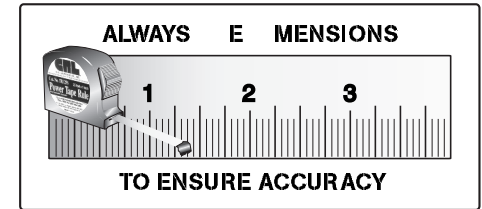
Includes: Mounting screws and gaskets



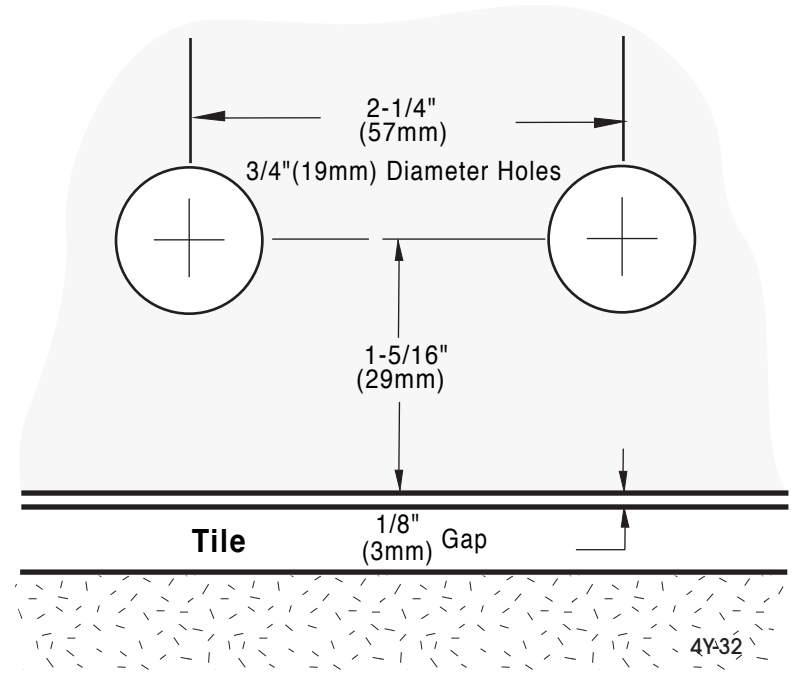
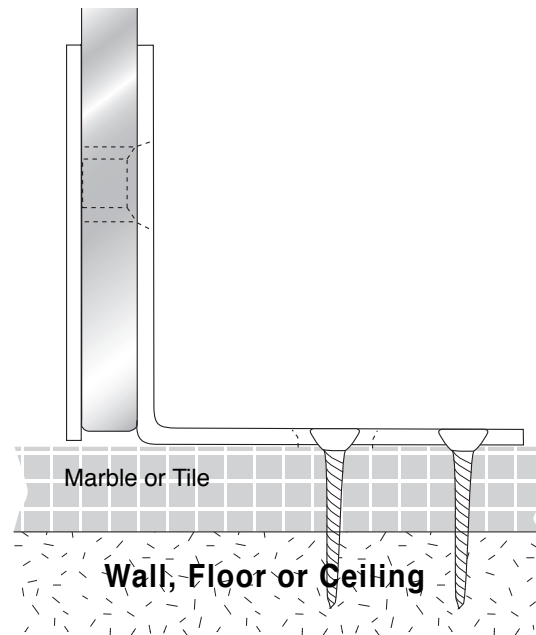
FRONT VIEW



REAR VIEW



Template Shown Below



GLASS CLAMPS

Roman Wall Bracket

CAT. No. R090S

C.R. Laurence Co., Inc.
 crlaurence.com

For technical assistance in the United States call toll free (800) 421-6144; from Canada call toll free (877) 421-6144; Outside the U.S. and Canada call (323) 588-1281. Ask for Tech Sales at Extension 7740. Toll free fax (800) 458-7496.

© Copyright 2005, C.R. Laurence Co., Inc_SDT21_U5



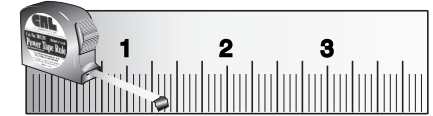
C.R. LAURENCE CO., INC.
PROFESSIONAL QUALITY

TEMPLATE OPTION FOR SQUARE CUT GLASS

Butting Panel

Overlapping Panel

ALWAYS E MENSIONS



TO ENSURE ACCURACY

Specifications:

Material: Solid brass

Glass Thickness Range: 5/16" (8mm) to 1/2" (12mm)

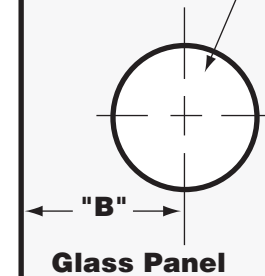
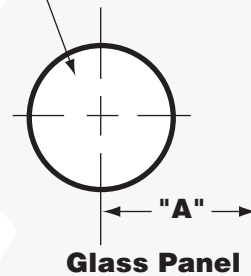
Hole Size Required: 5/8" (16mm) or 3/4" (19mm)

Includes: Mounting screws and gaskets

Note: An additional set of gaskets is required for 5/16" (8mm) glass

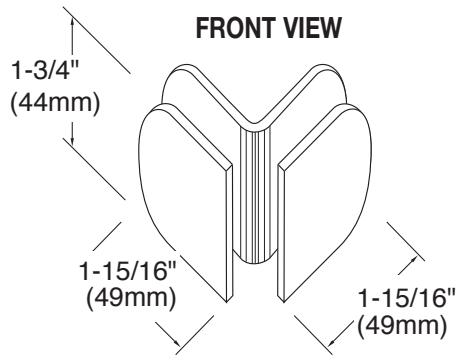
5/8" (16mm) or 3/4" (19mm) Diameter Hole

5/8" (16mm) or 3/4" (19mm) Diameter Hole

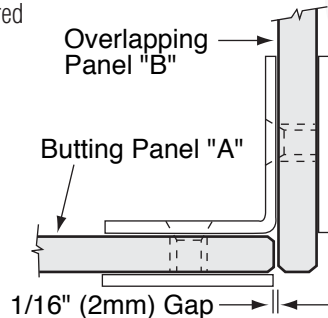
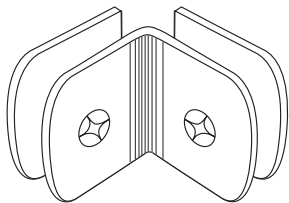


Glass Thickness	"A" Measurement	"B" Measurement
1/4" (6mm)	1-3/16" (30mm)	1-1/2" (38mm)
5/16" (8mm)	1-3/16" (30mm)	1-9/16" (40mm)
3/8" (10mm)	1-3/16" (30mm)	1-5/8" (42mm)
1/2" (12mm)	1-3/16" (30mm)	1-3/4" (44mm)

FRONT VIEW

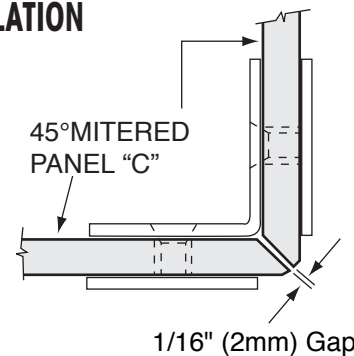


REAR VIEW



TYPICAL INSTALLATION

Important: Project measurements from the outside of the mitered glass.



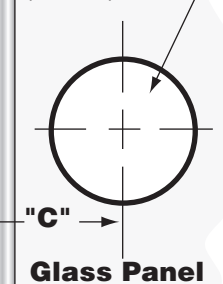
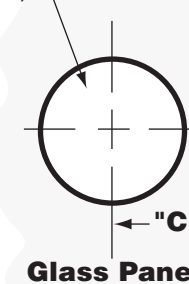
TEMPLATE OPTION FOR 45° MITERED GLASS

45 Mitered Panel

45 Mitered Panel

5/8" (16mm) or 3/4" (19mm) Diameter Hole

5/8" (16mm) or 3/4" (19mm) Diameter Hole



Outside Edge of Miter

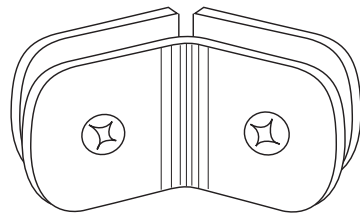
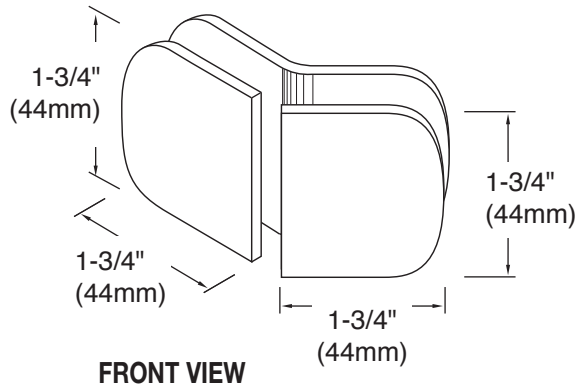
GLASS CLAMPS

Roman 90° Clamp
(Glass-to-Glass Application)

CAT. No. ROM91

Glass Thickness	"C" Measurement
1/4" (6mm)	1-7/16" (37mm)
5/16" (8mm)	1-1/2" (38mm)
3/8" (10mm)	1-9/16" (40mm)
1/2" (12mm)	1-11/16" (42mm)

*From outside edge of miter



Specifications:

Material: Solid brass

Glass Thickness Range: 5/16" (8mm) to 1/2" (12mm)

Hole Size Required: 5/8" (16mm) or 3/4" (19mm)

Includes: Mounting screws and gaskets

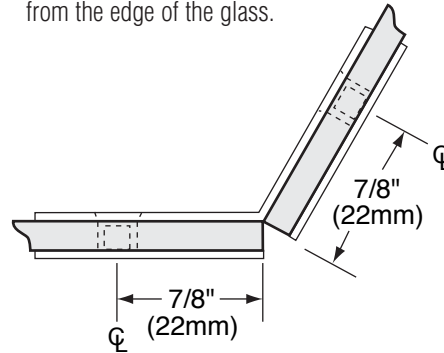
GLASS CLAMPS

Roman 135° Glass Clamp

CAT. No. ROM135

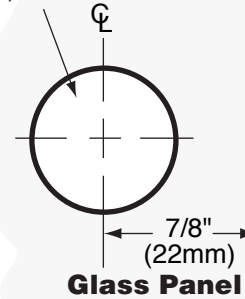
TYPICAL INSTALLATION

Important: Project measurements from the edge of the glass.

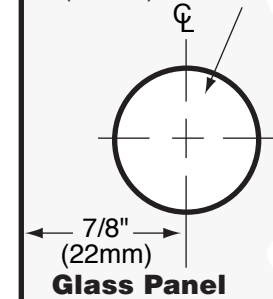


TEMPLATE OPTION FOR SQUARE CUT GLASS

5/8" (16mm) or 3/4" (19mm) Diameter Hole

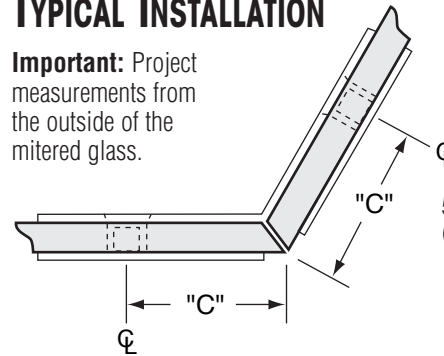


5/8" (16mm) or 3/4" (19mm) Diameter Hole



TYPICAL INSTALLATION

Important: Project measurements from the outside of the mitered glass.



Glass Thickness

"C"* Measurement

1/4" (6mm)

1" (25mm)

5/16" (8mm)

1-1/16" (27mm)

3/8" (10mm)

1-1/16" (27mm)

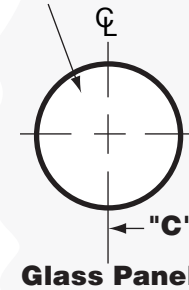
1/2" (12mm)

1-1/8" (29.5mm)

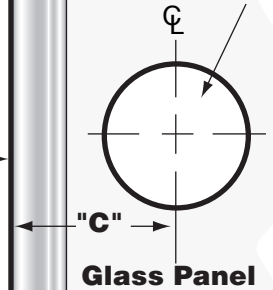
*From outside edge of miter

TEMPLATE OPTION FOR 22-1/2° MITERED GLASS

5/8" (16mm) or 3/4" (19mm) Diameter Hole



5/8" (16mm) or 3/4" (19mm) Diameter Hole



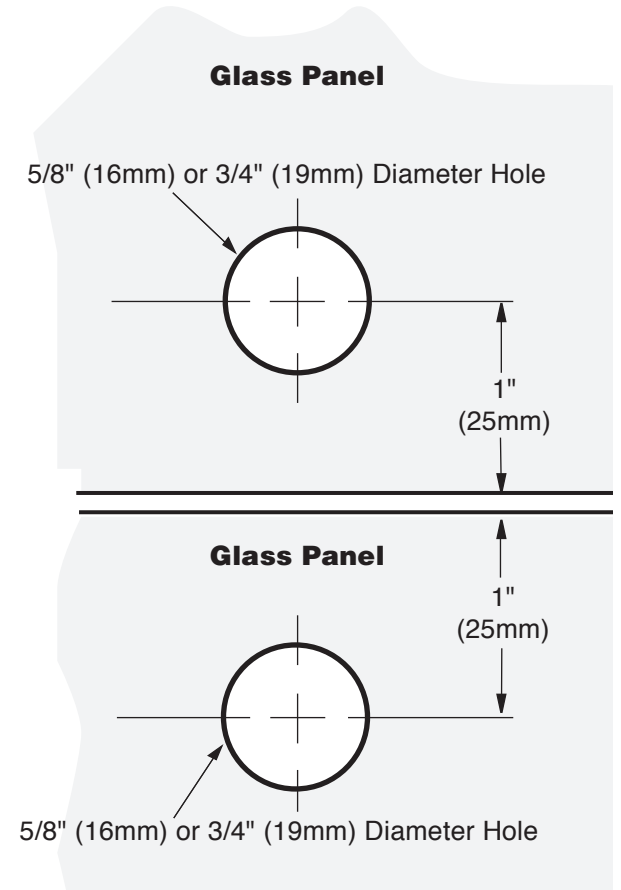
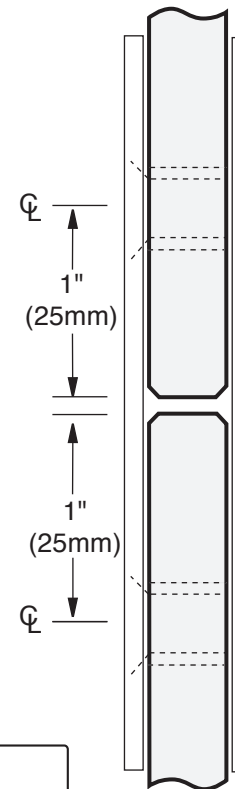
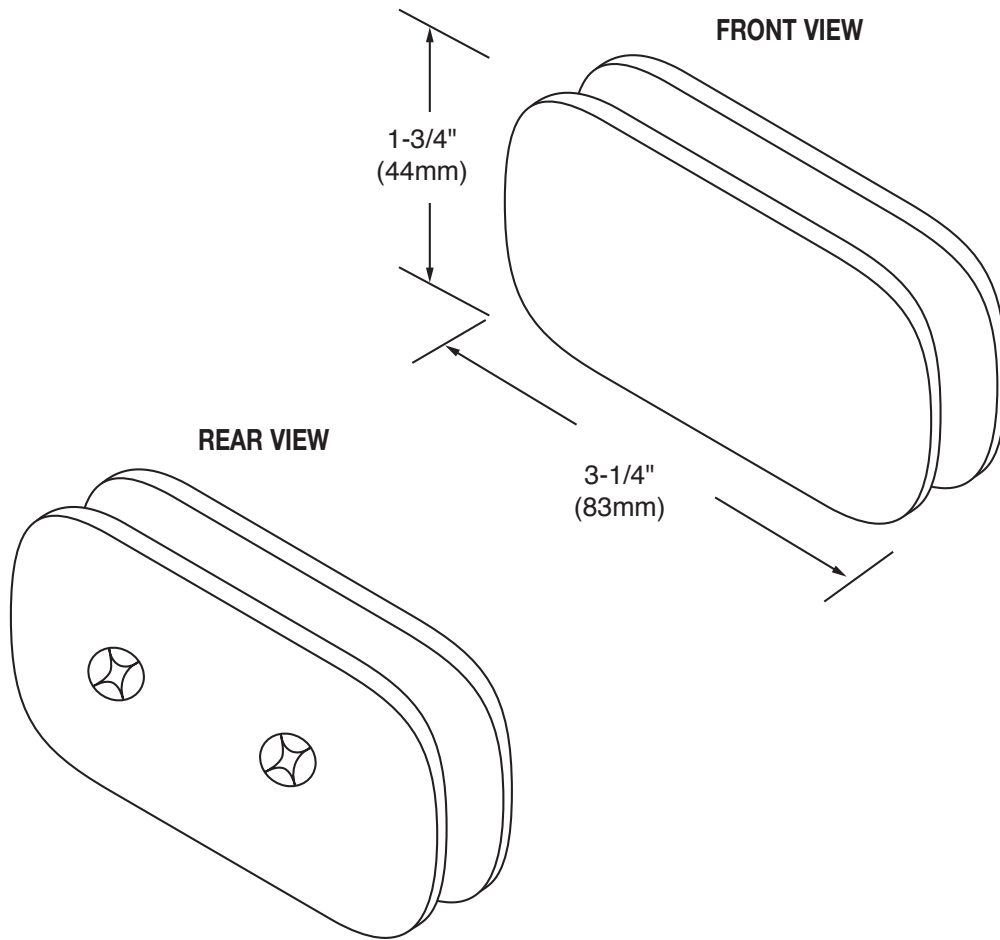
Outside Edge of Miter



C.R. LAURENCE CO., INC.
PROFESSIONAL QUALITY

Specifications:

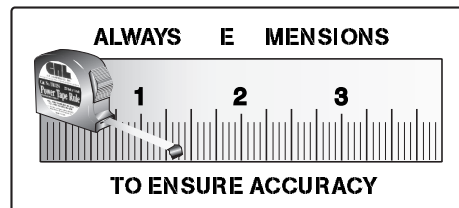
Material: Solid brass
Glass Thickness Range: 5/16" (8mm) to 1/2" (12mm)
Hole Size Required: 5/8" (16mm) or 3/4" (19mm)
Includes: Mounting screws and gaskets



GLASS CLAMPS

Roman 180° Double Stud

CAT. No. ROM184





C.R. LAURENCE CO., INC.
PROFESSIONAL QUALITY

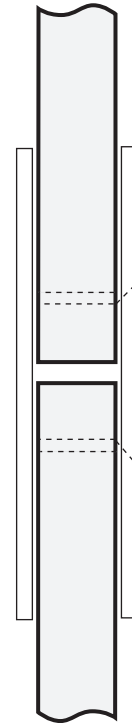
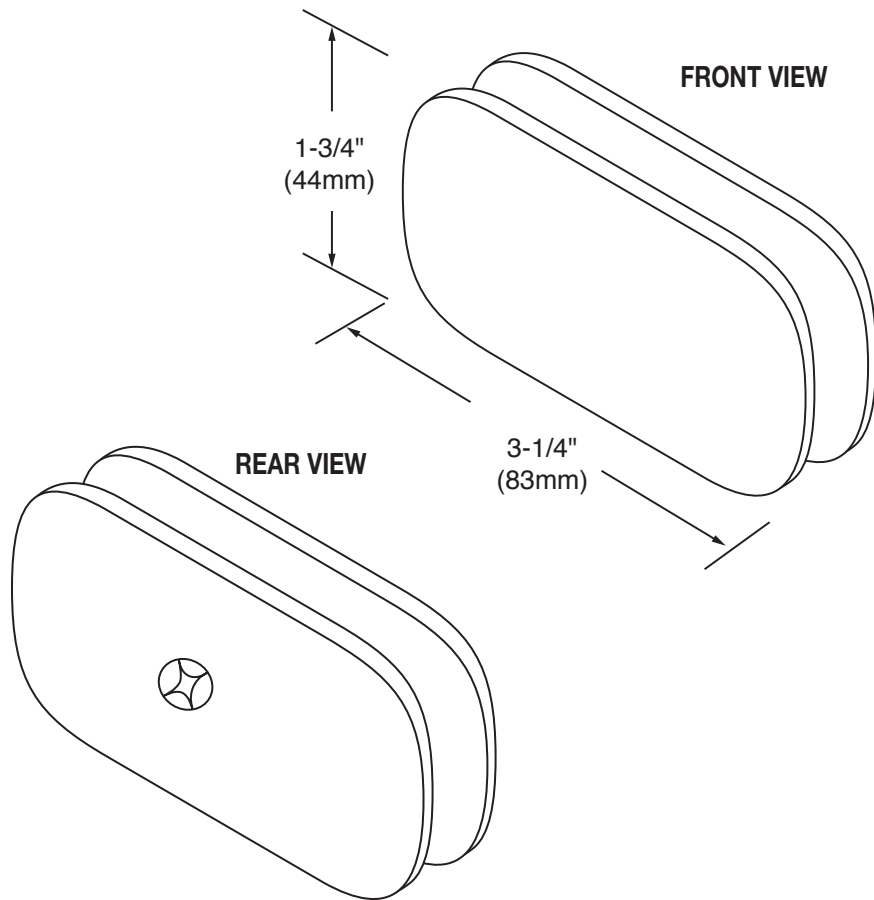
Specifications:

Material: Solid brass

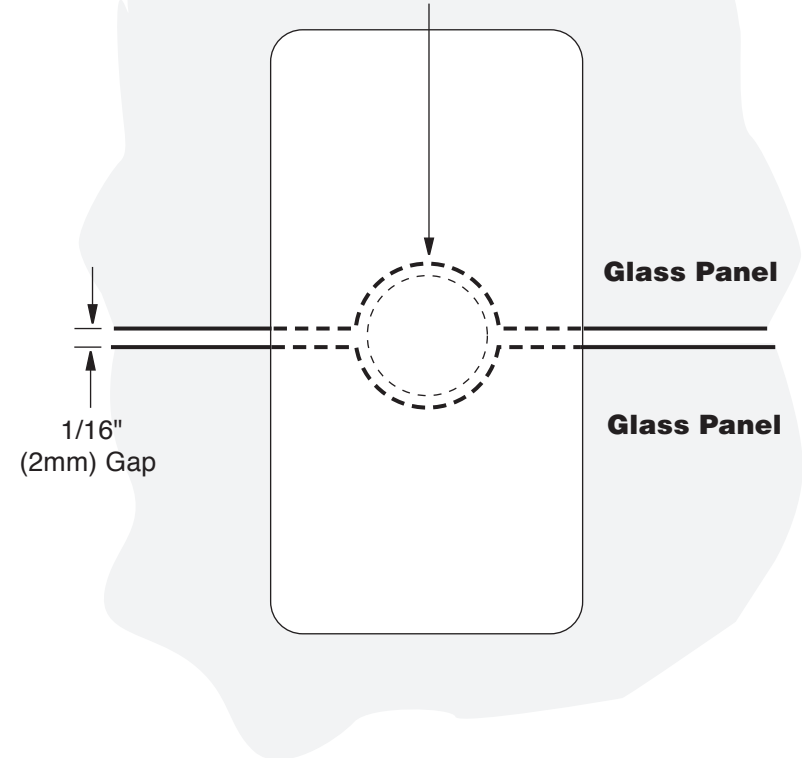
Glass Thickness Range: 5/16" (8mm) to 1/2" (12mm)

Hole Size Required: See Template

Includes: Mounting screws and gaskets



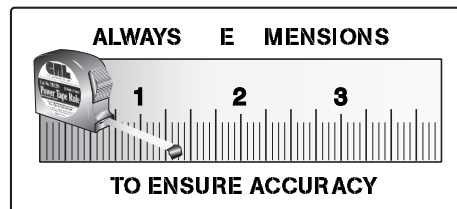
Notch Both Panels of Glass to Equal
 Half the Diameter of a 5/8" (16mm) or 3/4" (19mm) Hole.



GLASS CLAMPS

Roman 180° Single Stud

CAT. No. ROM680



C.R. Laurence Co., Inc. For technical assistance in the United States call toll free (800) 421-6144; from Canada call toll free (877) 421-6144;
 crlaurence.com Outside the U.S. and Canada call (323) 588-1281. Ask for Tech Sales at Extension 7740. Toll free fax (800) 458-7496.

© Copyright 2005, C.R. Laurence Co., Inc_SDT21_US



C.R. LAURENCE CO., INC.
PROFESSIONAL QUALITY

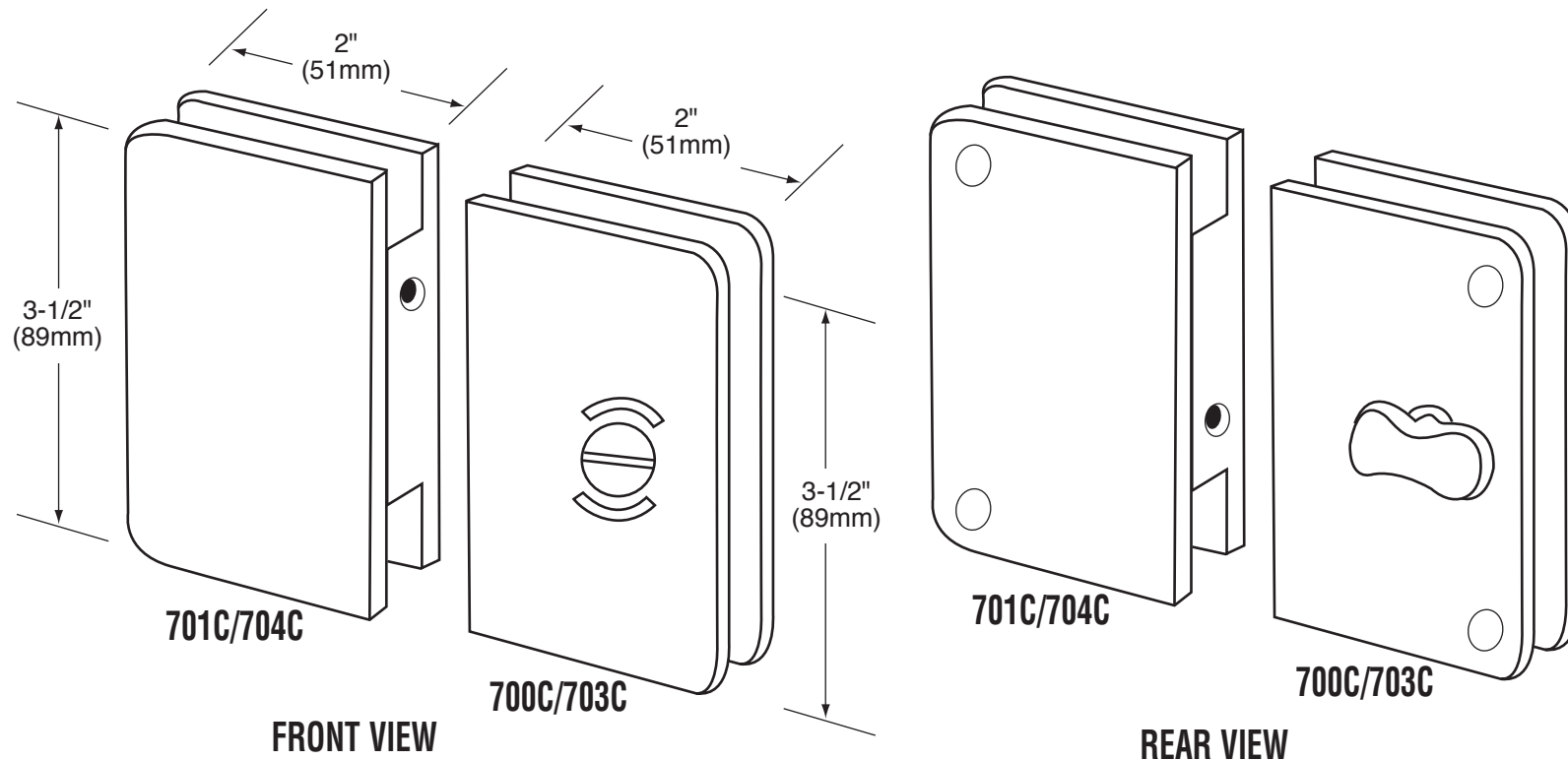
Specifications:

Material: Solid Brass

Glass Thickness: 1/4" (6mm) to 1/2" (12mm)

Notch Required

Includes: Mounting screws and gaskets



GLASS DOOR LOCK WITH INDICATOR AND GLASS DOOR KEEPER

CAT No. 700C, 701C, 703C AND 704C

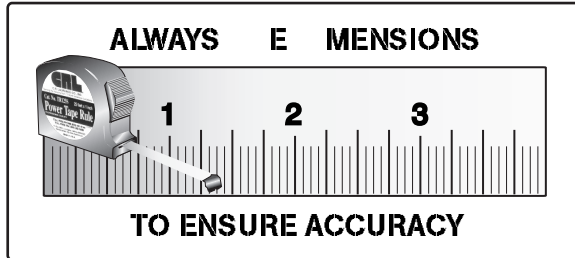
Template Shown on Next Page

C.R. Laurence Co., Inc.
crlaurence.com

For technical assistance in the United States call toll free (800) 421-6144; from Canada call toll free (877) 421-6144;
Outside the U.S. and Canada call (323) 588-1281. Ask for Tech Sales at Extension 7740. Toll free fax (800) 458-7496.

4Y-37

© Copyright 2009, C.R. Laurence Co., Inc_SDT21_U5

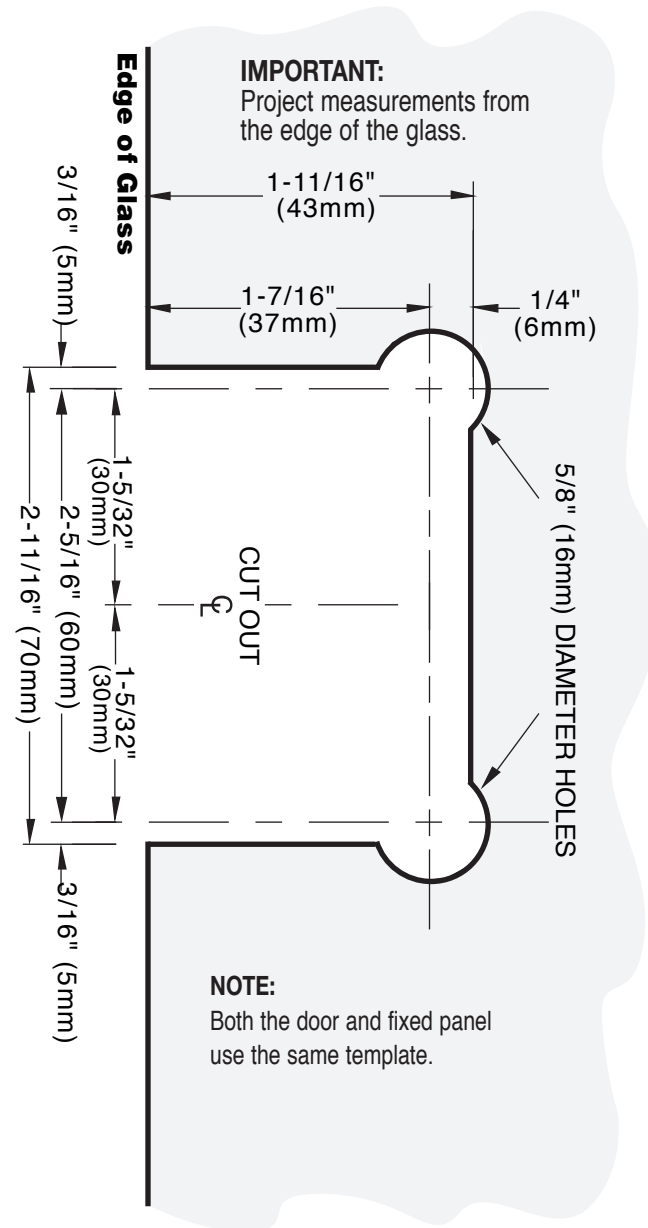


NOTE:
 When using Cat. No. 700C, the minimum clearance between the door glass and the wall/panel is 1/8" (3mm), and the maximum clearance is 1/2" (12mm). The standard recommended clearance is 3/16" (5mm).

NOTE:
 When using Cat. No. 703C and 704C the clearance between panels is 1/16" (1.5mm) to 1/8" (3mm).

GLASS DOOR LOCK WITH INDICATOR AND GLASS DOOR KEEPER

CAT No. 700C, 701C, 703C AND 704C





C.R. LAURENCE CO., INC.
PROFESSIONAL QUALITY

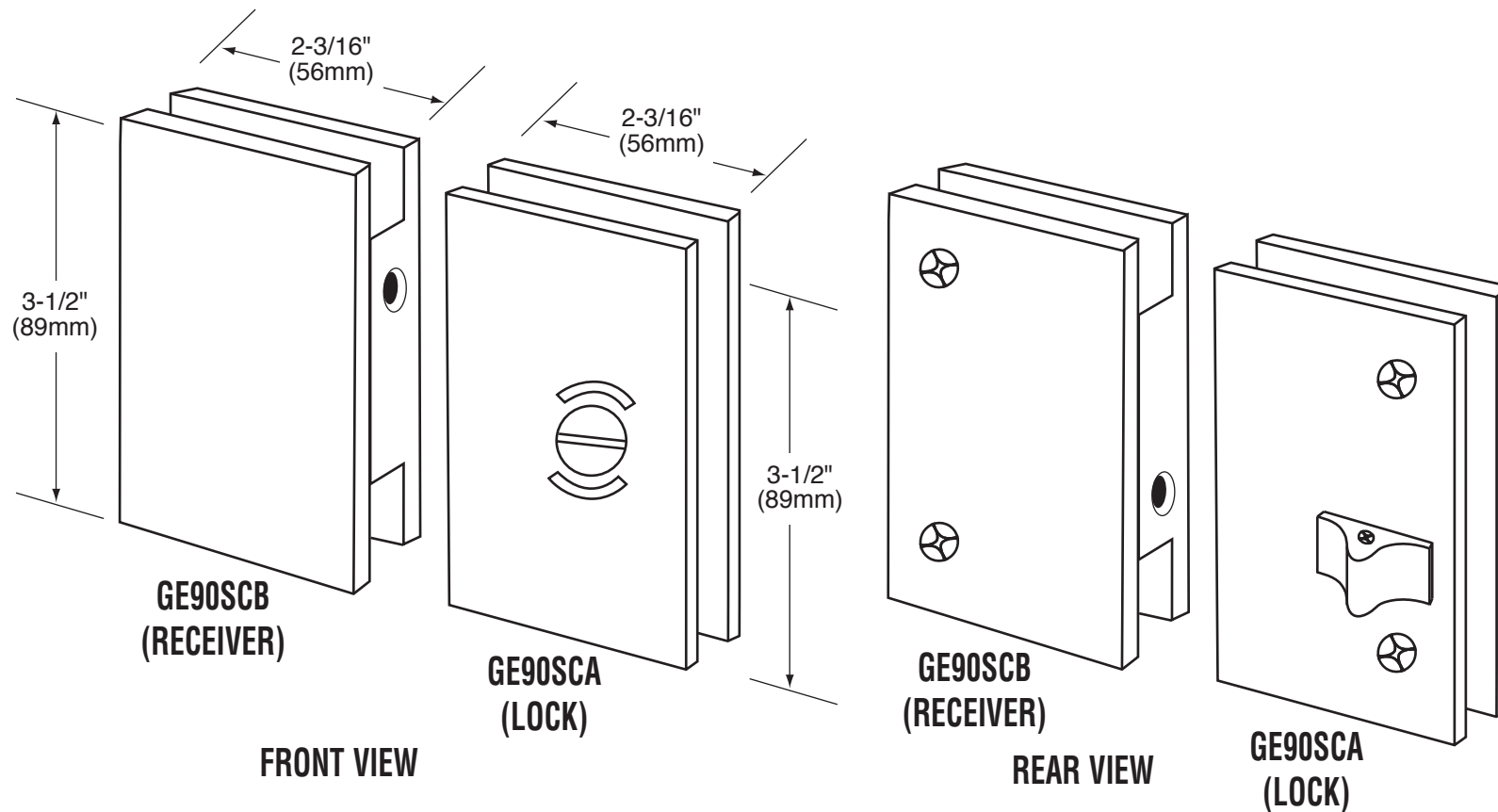
Specifications:

Material: Solid Brass

Glass Thickness: 3/8" (9mm) to 1/2" (12mm)

Notch Required

Includes: Mounting screws and gaskets



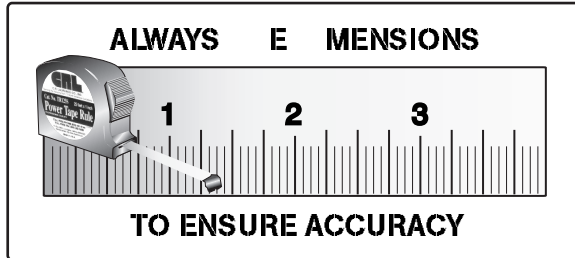
GLASS DOOR LOCK WITH INDICATOR AND GLASS DOOR LOCK RECEIVER

CAT No. GE90SCB & GE90SCA

Template Shown on Next Page



C.R. LAURENCE CO., INC.
PROFESSIONAL QUALITY



NOTE:

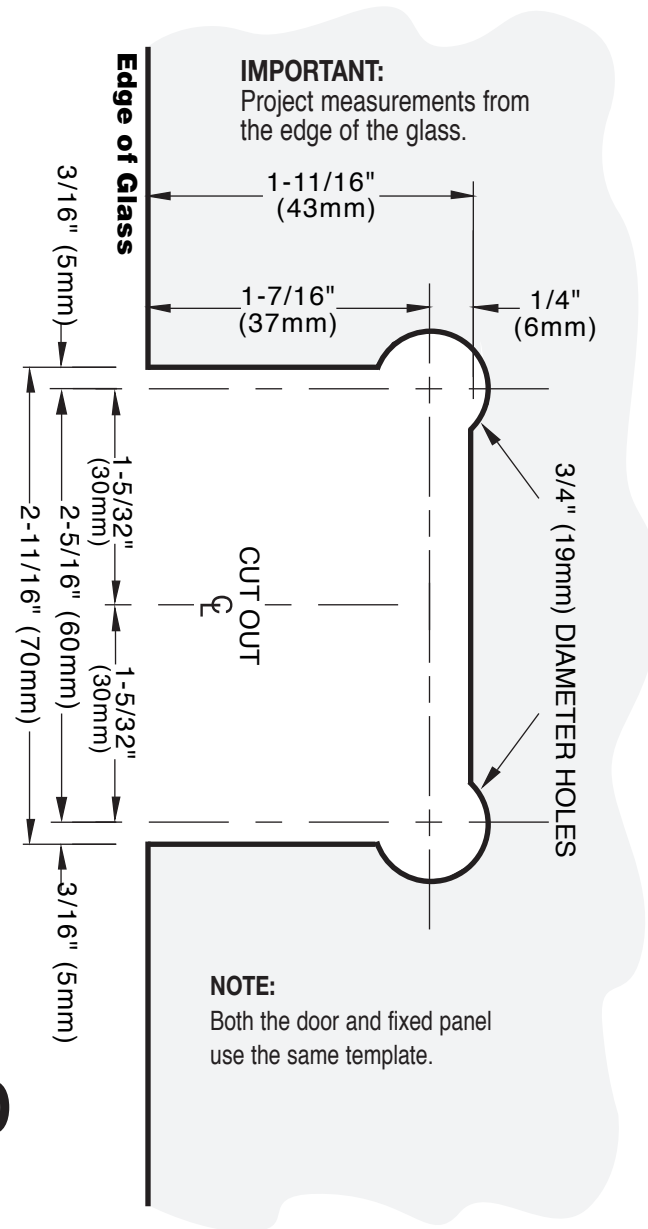
The minimum clearance between the door glass and the wall/panel is 1/8" (3mm) and the maximum clearance is 1/2" (12mm). The standard recommended clearance is 3/16" (5mm).

GLASS DOOR LOCK WITH INDICATOR AND GLASS DOOR LOCK RECEIVER

CAT No. GE90SCB & GE90SCA

C.R. Laurence Co., Inc.
 crlaurence.com

For technical assistance in the United States call toll free (800) 421-6144; from Canada call toll free (877) 421-6144; Outside the U.S. and Canada call (323) 588-1281. Ask for Tech Sales at Extension 7740. Toll free fax (800) 458-7496.





C.R. LAURENCE CO., INC.
PROFESSIONAL QUALITY

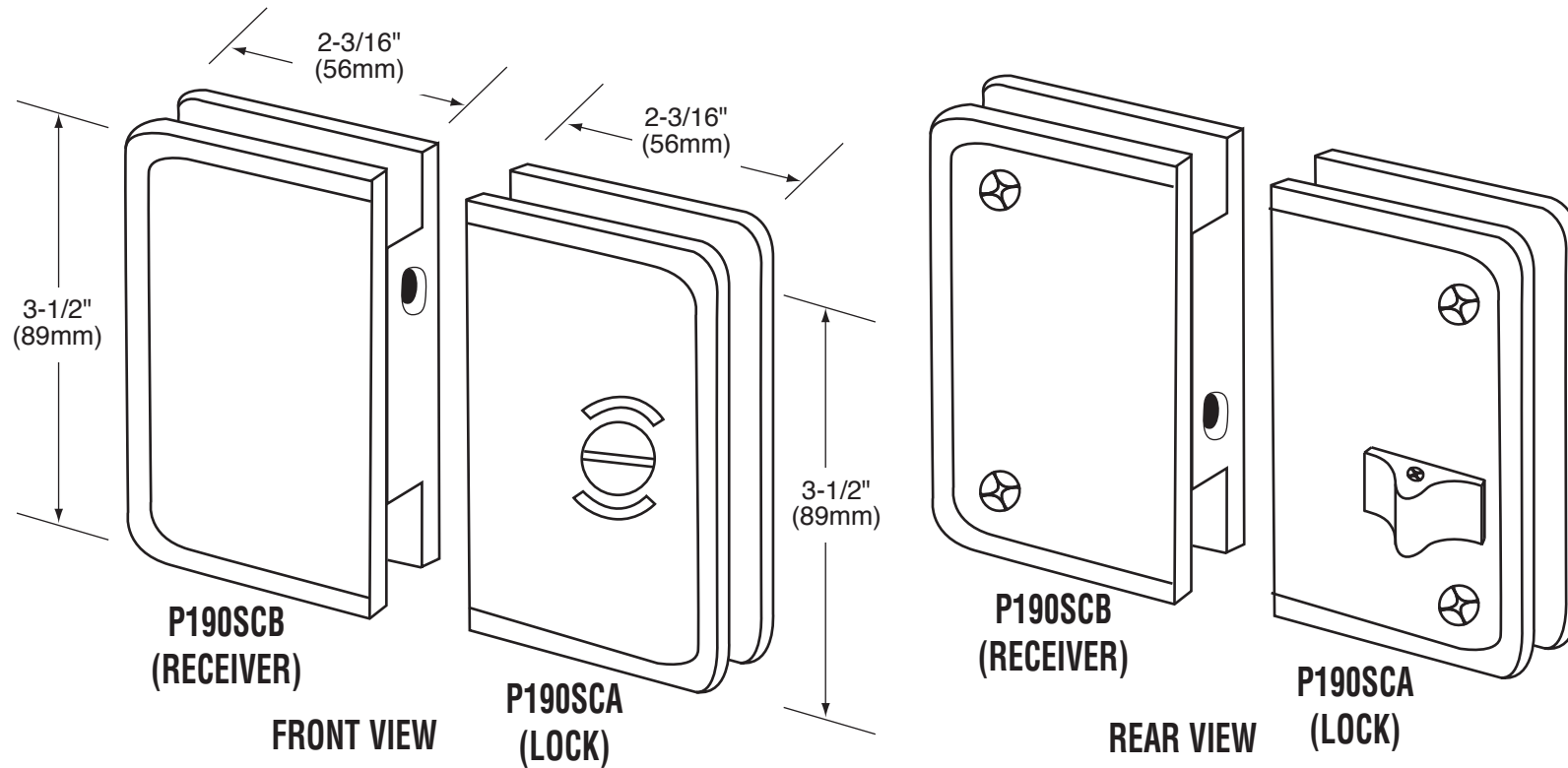
Specifications:

Material: Solid Brass

Glass Thickness: 3/8" (10mm) to 1/2" (12mm)

Notch Required

Includes: Mounting screws and gaskets



GLASS DOOR LOCK WITH INDICATOR AND GLASS DOOR LOCK RECEIVER

CAT No. P190SCB AND P190SCA

Template Shown on Next Page

C.R. Laurence Co., Inc.
crlaurence.com

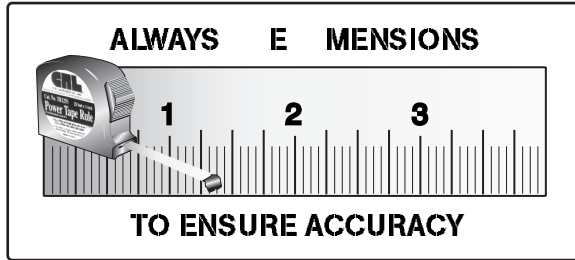
For technical assistance in the United States call toll free (800) 421-6144; from Canada call toll free (877) 421-6144; Outside the U.S. and Canada call (323) 588-1281. Ask for Tech Sales at Extension 7740. Toll free fax (800) 458-7496.

4Y-39B

© Copyright 2009, C.R. Laurence Co., Inc_SDT21_U5



C.R. LAURENCE CO., INC.
 PROFESSIONAL QUALITY

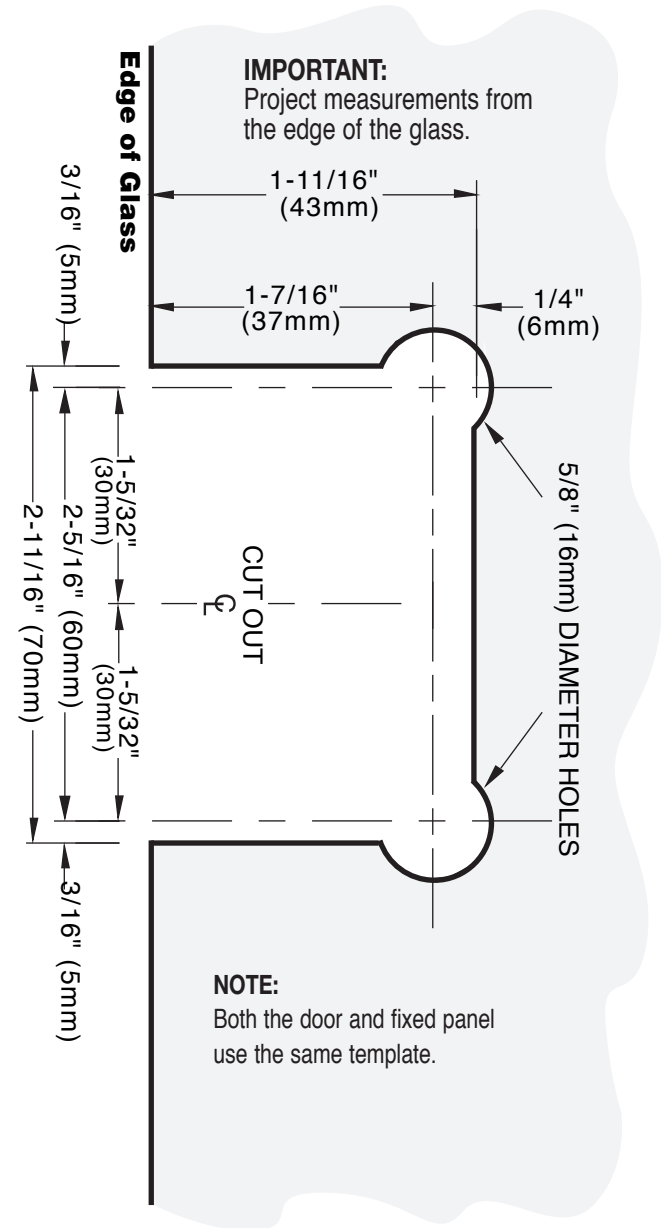


NOTE:

The minimum clearance between the door glass and the wall/panel is 1/8" (3mm) and the maximum clearance is 1/2" (12mm). The standard recommended clearance is 3/16" (5mm).

GLASS DOOR LOCK WITH INDICATOR AND GLASS DOOR LOCK RECEIVER

CAT No. P190SCB AND P190SCA

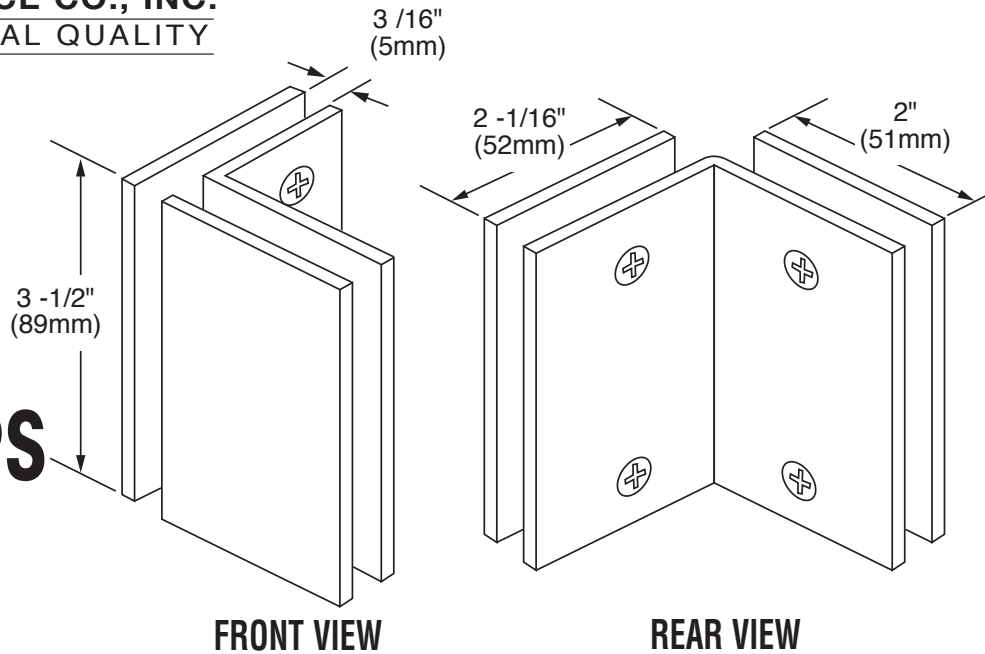




C.R. LAURENCE CO., INC.
PROFESSIONAL QUALITY

Specifications:

Material: Solid Brass
Glass Thickness: 3/8" (10mm) to 1/2" (12mm)
Hole Size Required: 3/4" (19mm)
Includes: Mounting screws and gaskets

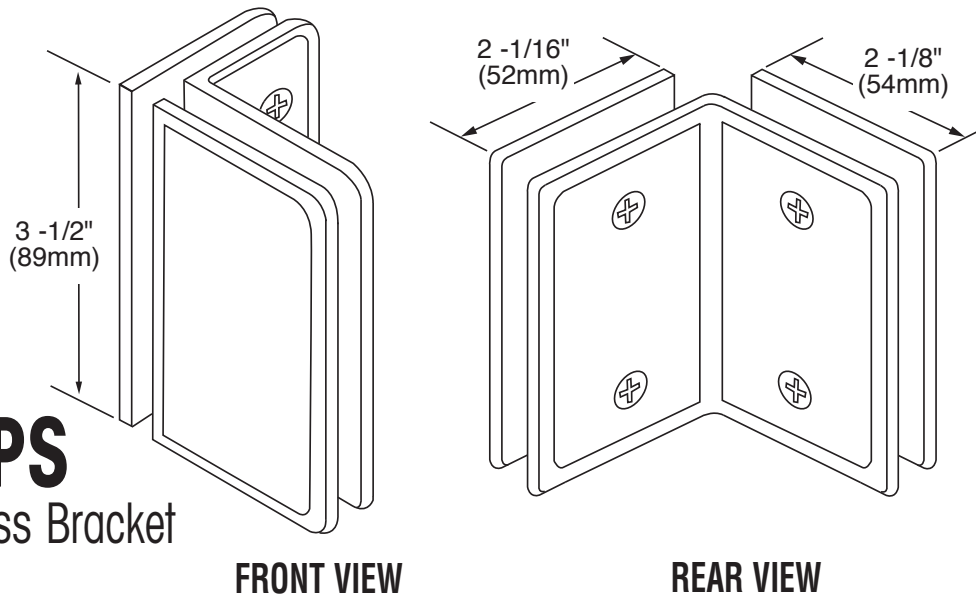


GLASS CLAMPS

Geneva, Concord and
 Cardiff Glass Bracket

CAT No. GE090

Template Shown on Next Page



GLASS CLAMPS

Pinnacle and Prima Glass Bracket

CAT No. P1090

Specifications:

Material: Solid Brass
Glass Thickness: 3/8" (10mm) to 1/2" (12mm)
Hole Size Required: 3/4" (19mm)
Includes: Mounting screws and gaskets

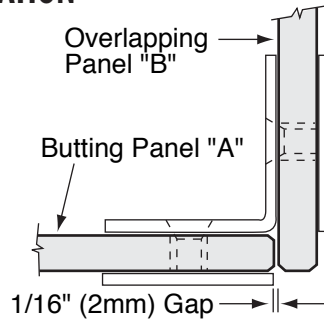
Template Shown on Next Page

4Y-39D

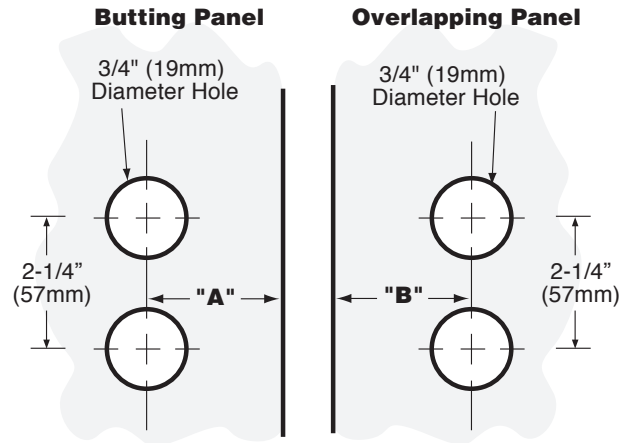


TYPICAL INSTALLATION

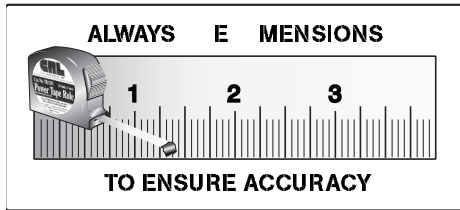
Important:
Project measurements from the edge of the glass.



TEMPLATE OPTION FOR SQUARE CUT GLASS



Glass Thickness	"A" Measurement	"B" Measurement
3/8" (10mm)	1-3/8" (35mm)	1-13/16" (46mm)
1/2" (12mm)	1-3/8" (35mm)	1-15/16" (49mm)



GLASS CLAMPS

THE ABOVE TEMPLATE OPTIONS APPLY

TO THE FOLLOWING CLAMPS:

90° Glass Bracket

CAT. No. **GE090**

Geneva, Concord and Cardiff Glass Bracket

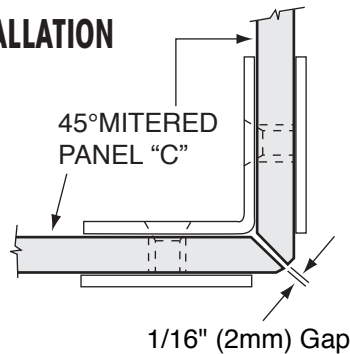
90° Glass Bracket

CAT. No. **P1090**

Pinnacle and Prima Glass Bracket

TYPICAL INSTALLATION

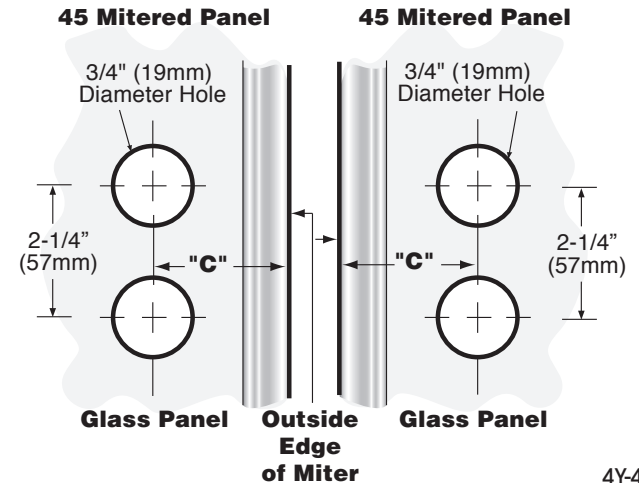
Important:
Project measurements from the outside of the mitered glass.



Glass Thickness	"C"* Measurement
3/8" (10mm)	1-3/4" (44mm)
1/2" (12mm)	1-7/8" (47mm)

*From outside edge of miter

TEMPLATE OPTION FOR 45° MITERED GLASS





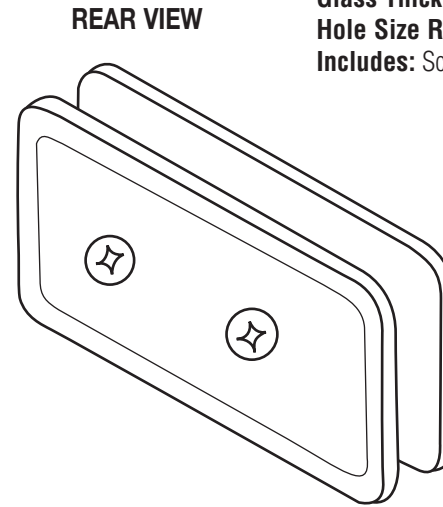
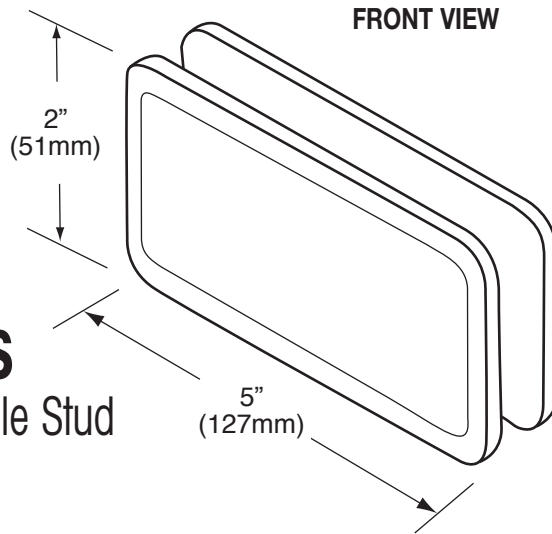
C.R. LAURENCE CO., INC.
PROFESSIONAL QUALITY

Specifications:

Material: Solid brass
Glass Thickness Range: 3/8"(10mm) to 1/2"(12mm)
Hole Size Required: 3/4" (19mm)
Includes: Screws and gaskets

HEAVY DUTY GLASS CLAMPS

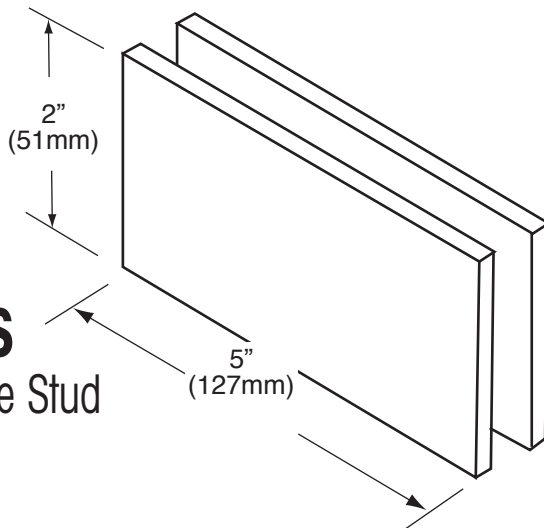
Beveled 180° Double Stud
CAT. No. BGC180



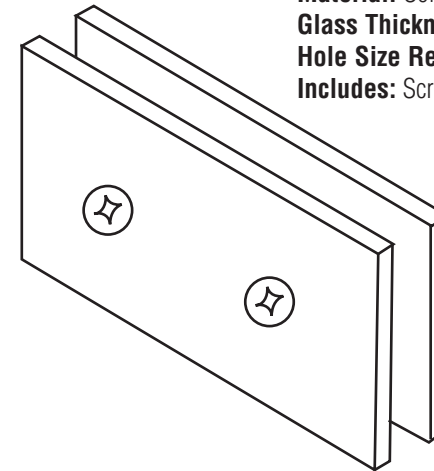
FRONT VIEW

HEAVY DUTY GLASS CLAMPS

Square 180° Double Stud
CAT. No. SGC180



REAR VIEW



Specifications:

Material: Solid brass
Glass Thickness Range: 3/8"(10mm) to 1/2"(12mm)
Hole Size Required: 3/4" (19mm)
Includes: Screws and gaskets

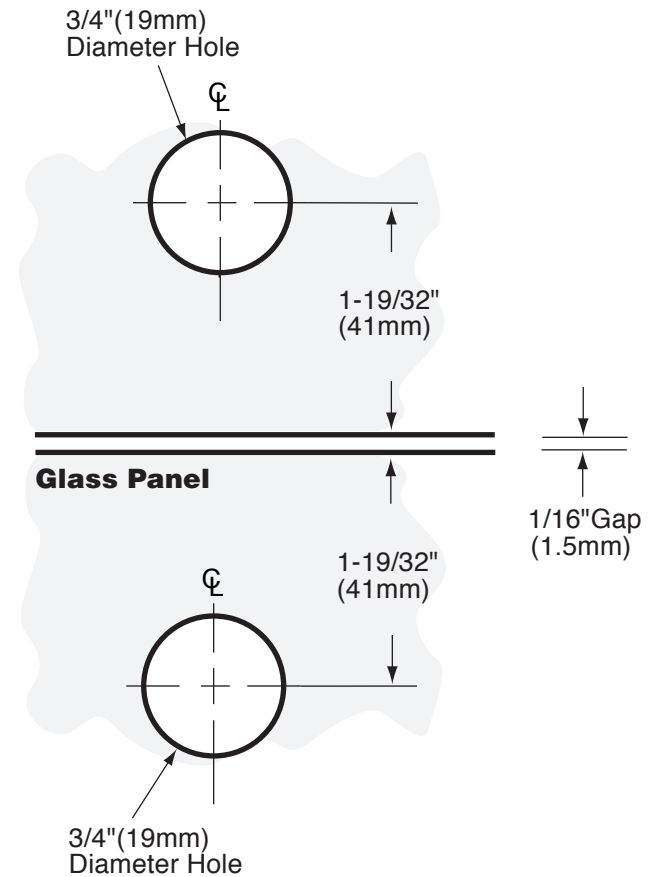
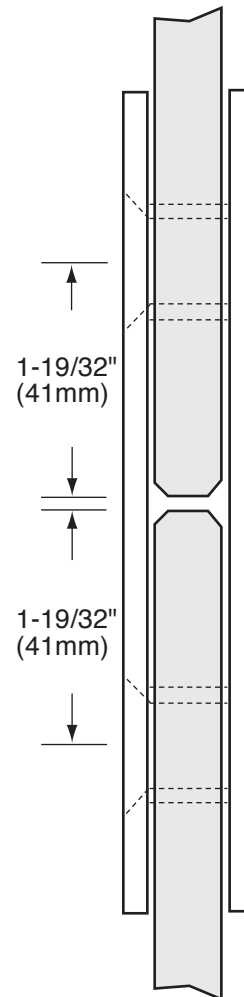
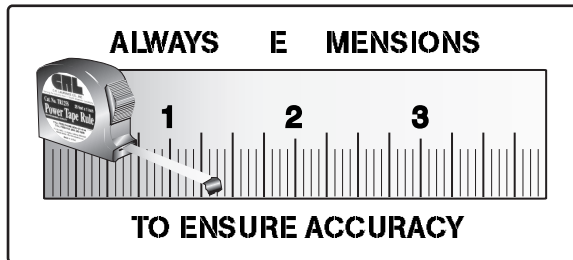


C.R. LAURENCE CO., INC.
PROFESSIONAL QUALITY

TYPICAL INSTALLATION

TEMPLATE FOR SQUARE CUT GLASS

Important: Project measurements from the edge of the glass



HEAVY DUTY GLASS CLAMPS

Beveled 180° Double Stud

CAT. No. BGC180

Square 180° Double Stud

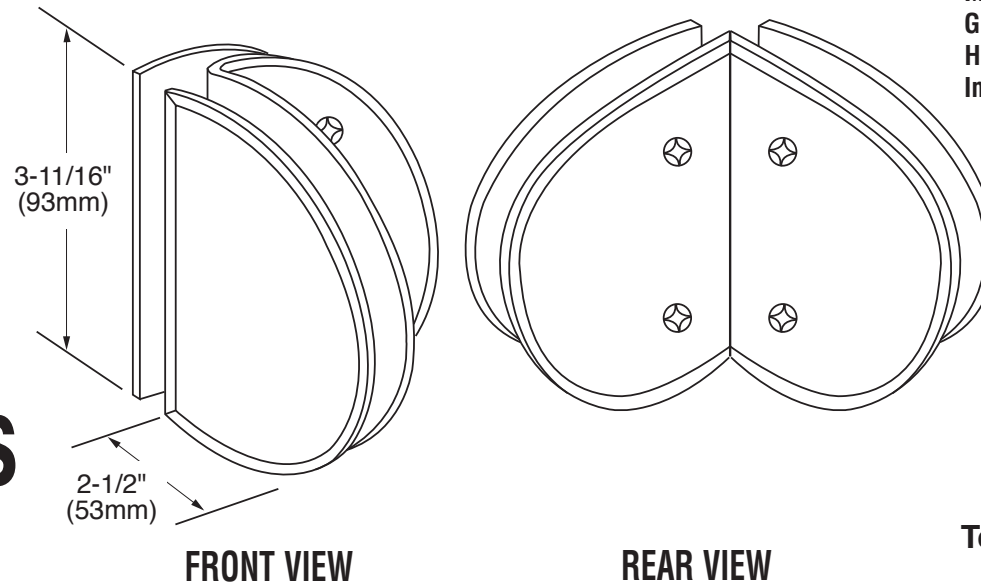
CAT. No. SGC180



C.R. LAURENCE CO., INC.
PROFESSIONAL QUALITY

Specifications:

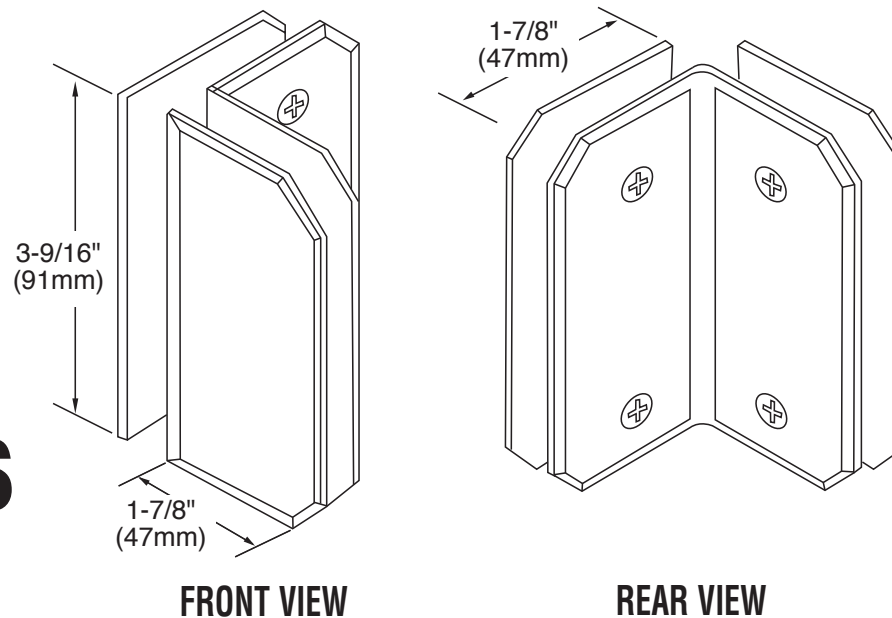
Material: Solid Brass
Glass Thickness: 5/16" (8mm) to 3/8" (10mm)
Hole Size Required: 3/4" (19mm)
Includes: Mounting screws and gaskets



GLASS CLAMPS

Classique Glass Bracket
CAT No. CL090

Template Shown on Next Page



GLASS CLAMPS

Monaco Glass Bracket
CAT No. M0090

Specifications:

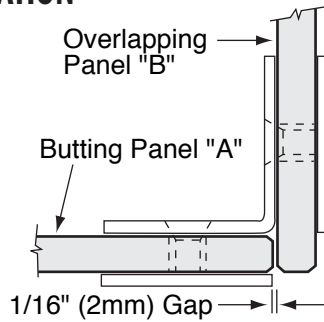
Material: Solid Brass
Glass Thickness: 1/4" (6mm) to 5/16" (8mm)
Hole Size Required: 3/4" (19mm)
Includes: Mounting screws and gaskets

Template Shown on Next Page

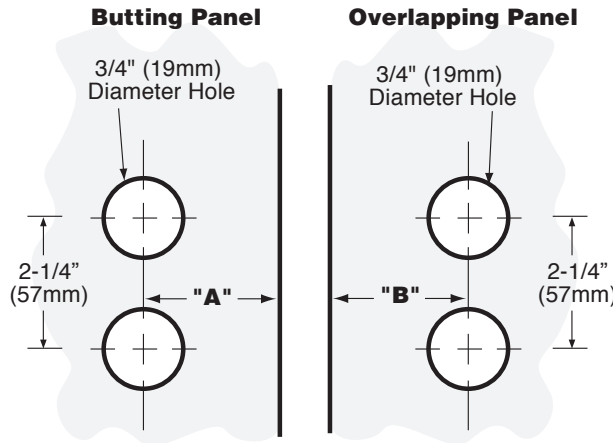


TYPICAL INSTALLATION

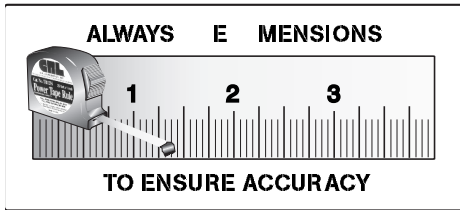
Important:
Project measurements from the edge of the glass.



TEMPLATE OPTION FOR SQUARE CUT GLASS



Glass Thickness	"A" Measurement	"B" Measurement
1/4" (6mm)	1-1/16" (27mm)	1-5/16" (33mm)
5/16" (8mm)	1-1/16" (27mm)	1-3/8" (35mm)
3/8" (10mm)	1-1/16" (27mm)	1-7/16" (36mm)



GLASS CLAMPS

THE ABOVE TEMPLATE OPTIONS APPLY TO THE FOLLOWING CLAMPS:

90° Glass Bracket

CAT. No. CL090

Classique Glass Bracket

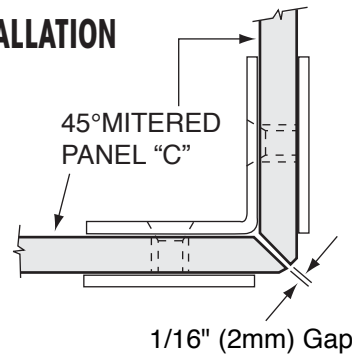
90° Glass Bracket

CAT. No. M0090

Monaco Glass Bracket

TYPICAL INSTALLATION

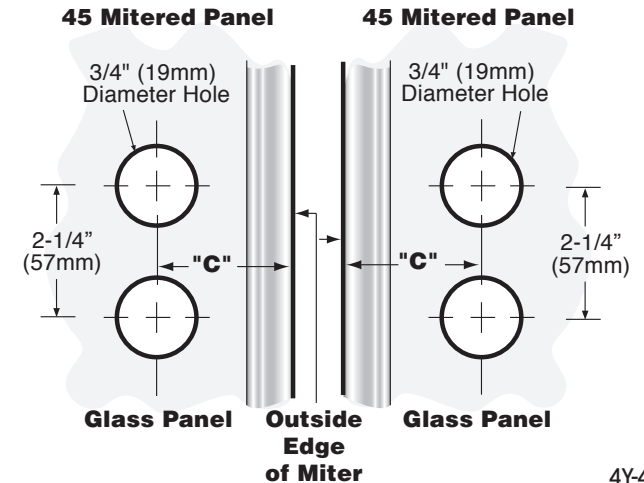
Important:
Project measurements from the outside of the mitered glass.



Glass Thickness	"C"* Measurement
1/4" (6mm)	1-1/4" (32mm)
5/16" (8mm)	1-5/16" (33mm)
3/8" (10mm)	1-3/8" (35mm)

*From outside edge of miter

TEMPLATE OPTION FOR 45° MITERED GLASS





C.R. LAURENCE CO., INC.
PROFESSIONAL QUALITY

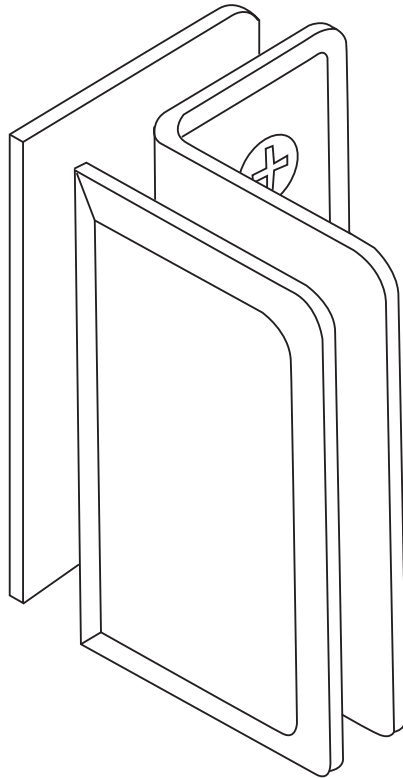
Specifications:

Material: Solid Brass

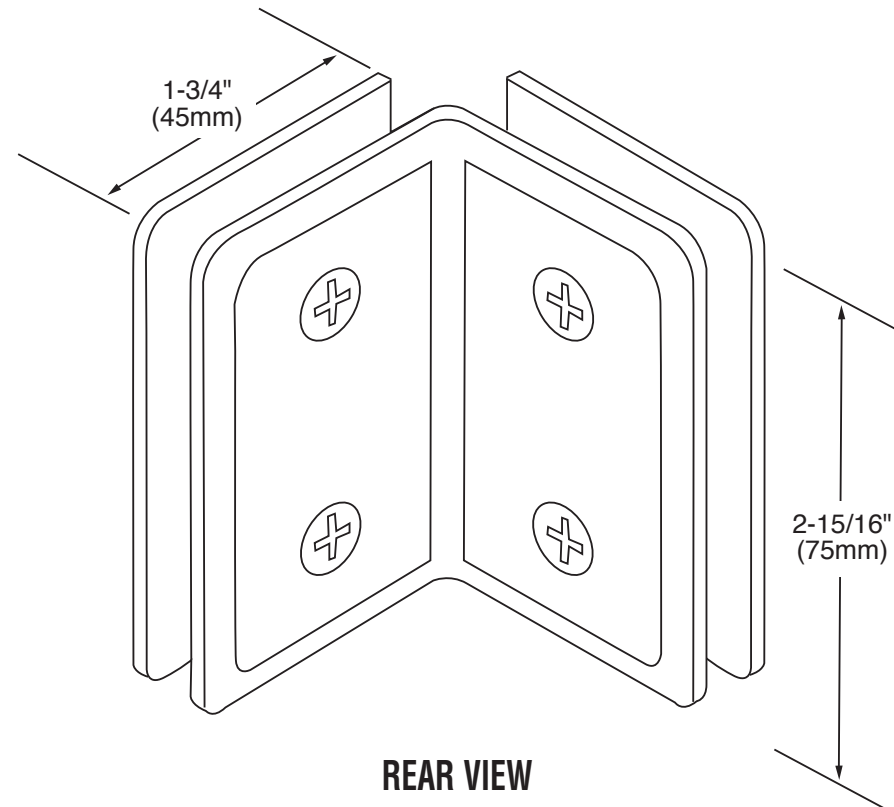
Glass Thickness: 1/4" (6mm) to 5/16" (8mm)

Hole Size Required: 3/4" (19mm)

Includes: Mounting screws and gaskets



FRONT VIEW



REAR VIEW

GLASS CLAMPS

Trianon Glass Bracket

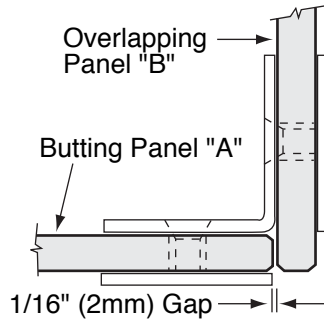
CAT. No. TR090

Template Shown on Next Page

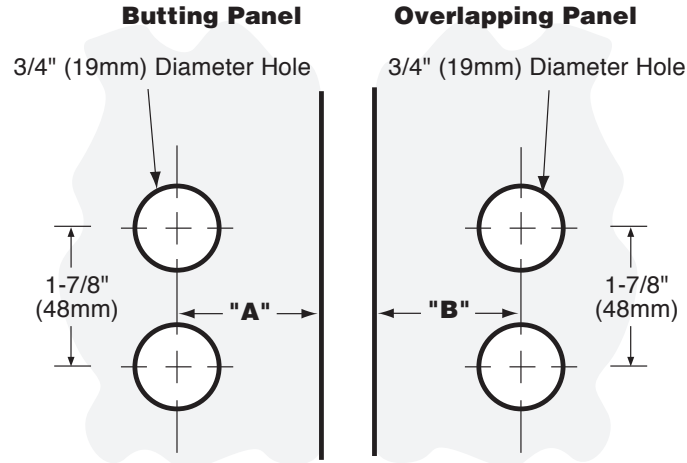


TYPICAL INSTALLATION

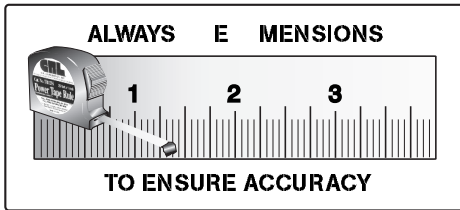
Important:
Project measurements from the edge of the glass.



TEMPLATE OPTION FOR SQUARE CUT GLASS



Glass Thickness	"A" Measurement	"B" Measurement
1/4" (6mm)	1-1/4" (32mm)	1-1/2" (38mm)
5/16" (8mm)	1-1/4" (32mm)	1-9/16" (40mm)



GLASS CLAMPS

THE ABOVE TEMPLATE OPTIONS APPLY

TO THE FOLLOWING CLAMPS:

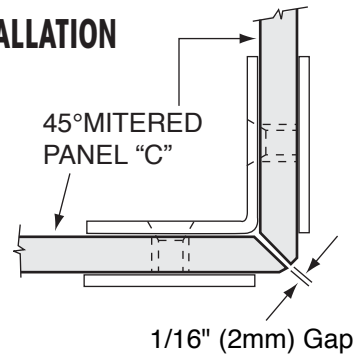
90° Glass Bracket

CAT. No. TR090

Trianon Glass Bracket

TYPICAL INSTALLATION

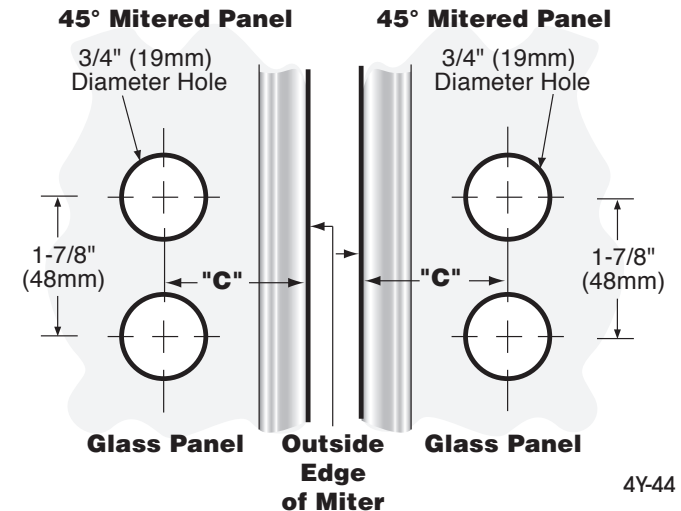
Important:
Project measurements from the outside of the mitered glass.



Glass Thickness	"C"* Measurement
1/4" (6mm)	1-7/16" (37mm)
5/16" (8mm)	1-1/2" (38mm)

*From outside edge of miter

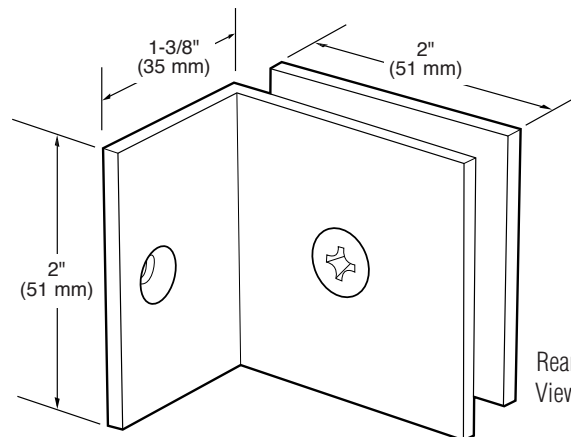
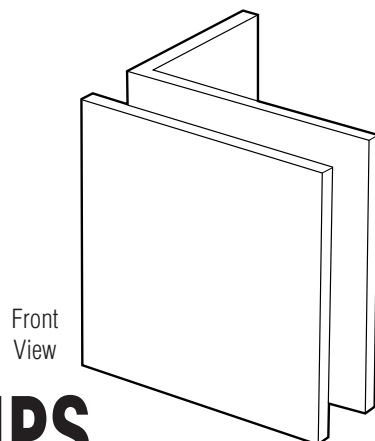
TEMPLATE OPTION FOR 45° MITERED GLASS



4Y-44



C.R. LAURENCE CO., INC.
PROFESSIONAL QUALITY



GLASS CLAMPS

Fixed Panel Square with Small Leg

CAT No. **SGC037**

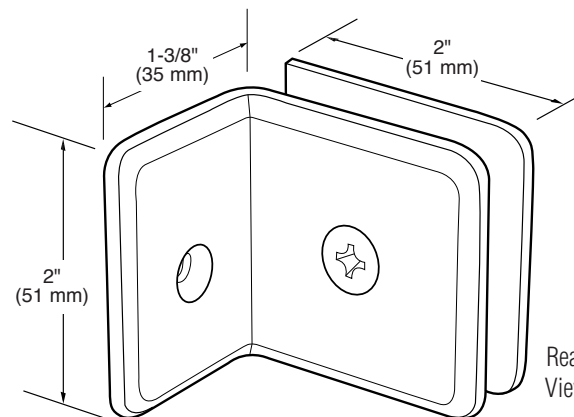
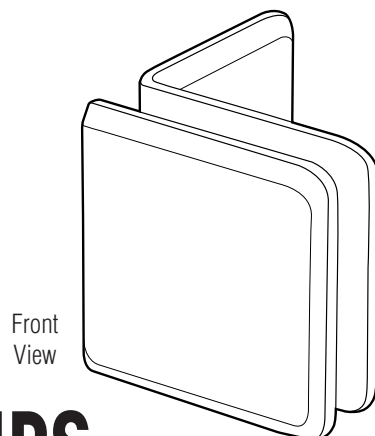
Specifications:

Material: Solid brass

Glass Thickness Range: 3/8" (10 mm) to 1/2" (12mm) thick glass

Hole Size Required: 5/8" (16mm) or 3/4" (19mm) diameter

Includes: Mounting Screws and Gaskets
Templates Shown on Next Page



GLASS CLAMPS

Fixed Panel Beveled with Small Leg

CAT No. **BGC037**

Specifications:

Material: Solid brass

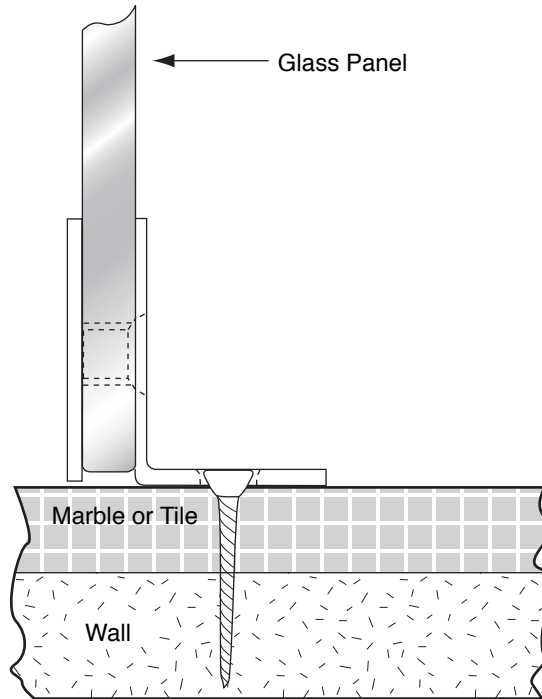
Glass Thickness Range: 3/8" (10 mm) to 1/2" (12mm) thick glass

Hole Size Required: 5/8" (16mm) or 3/4" (19mm) diameter

Includes: Mounting Screws and Gaskets
Templates Shown on Next Page

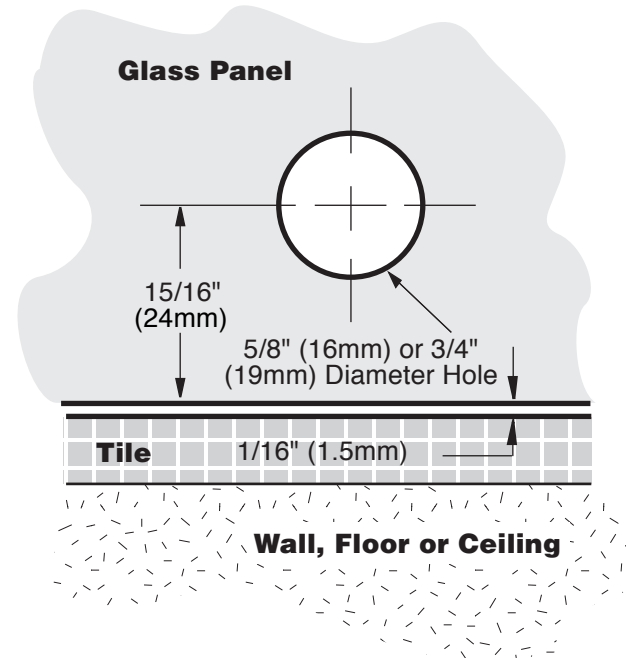


TYPICAL INSTALLATION



TEMPLATE

Important: Project measurements from the edge of the glass.



GLASS CLAMPS

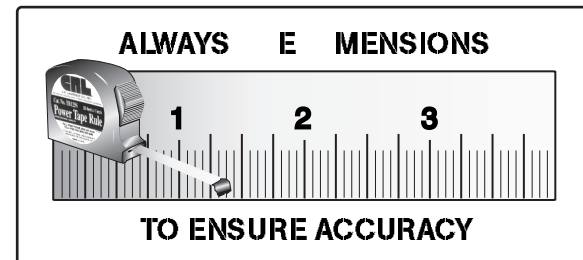
THE TEMPLATE ON THIS PAGE APPLIES TO THE FOLLOWING CLAMPS:

Fixed Panel Square with Small Leg

CAT. No. SGC037

Fixed Panel Beveled with Small Leg

CAT. No. BGC037





Specifications:

Material: Solid brass

Glass Thickness Range: 3/8" (10mm) to 1/2" (12mm)

Hole Size Required: 5/8" (16mm) or 3/4" (19mm)

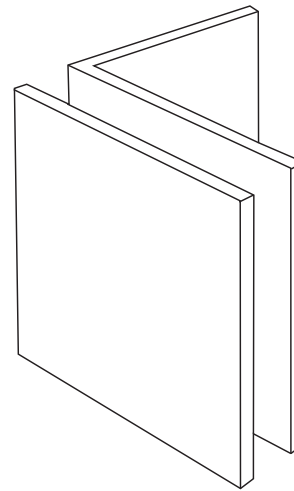
Includes: Mounting screw and gaskets

Template Shown on Next Page

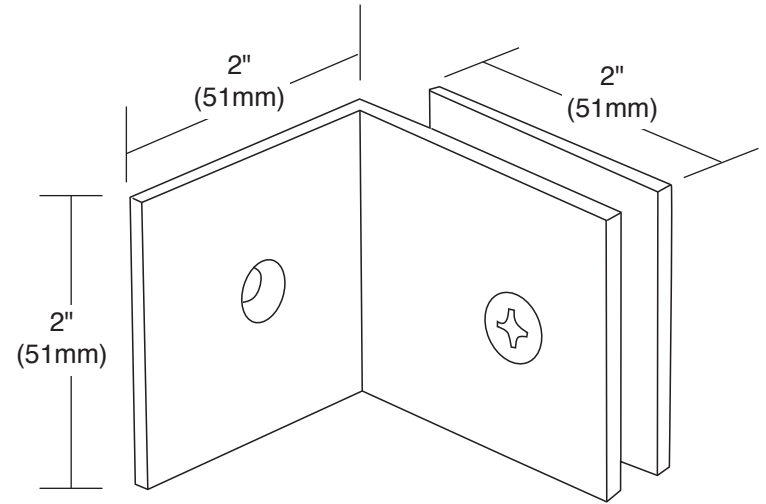
GLASS CLAMPS

Square with Large Leg

CAT No. SGC039



Front View



Rear View

Specifications:

Material: Solid brass

Glass Thickness Range: 3/8" (10mm) to 1/2" (12mm)

Hole Size Required: 5/8" (16mm) or 3/4" (19mm)

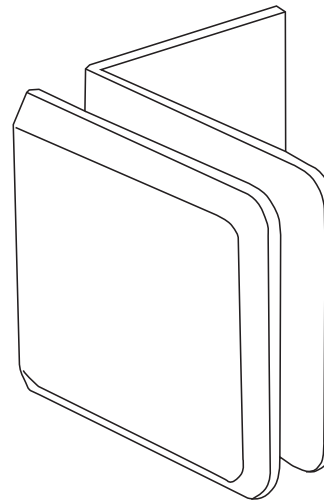
Includes: Mounting screw and gaskets

Template Shown on Next Page

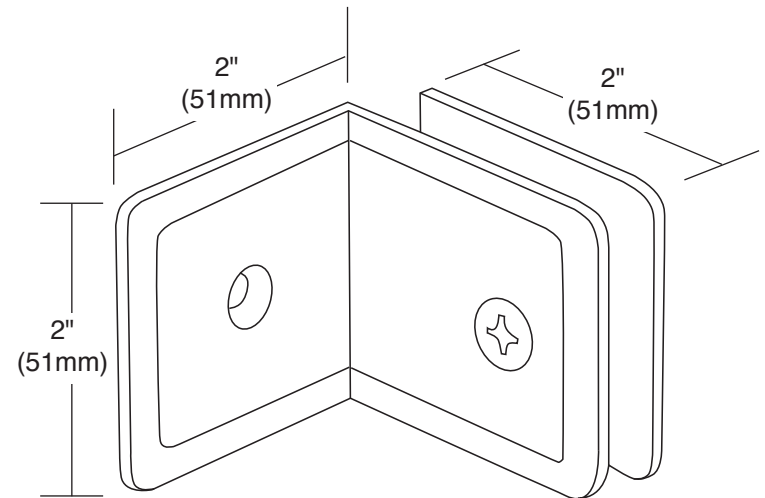
GLASS CLAMPS

Beveled with Large Leg

CAT No. BGC039



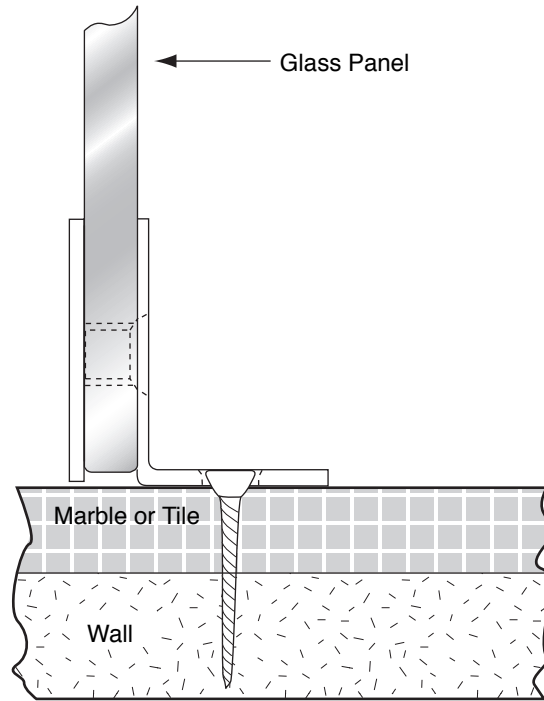
Front View



Rear View

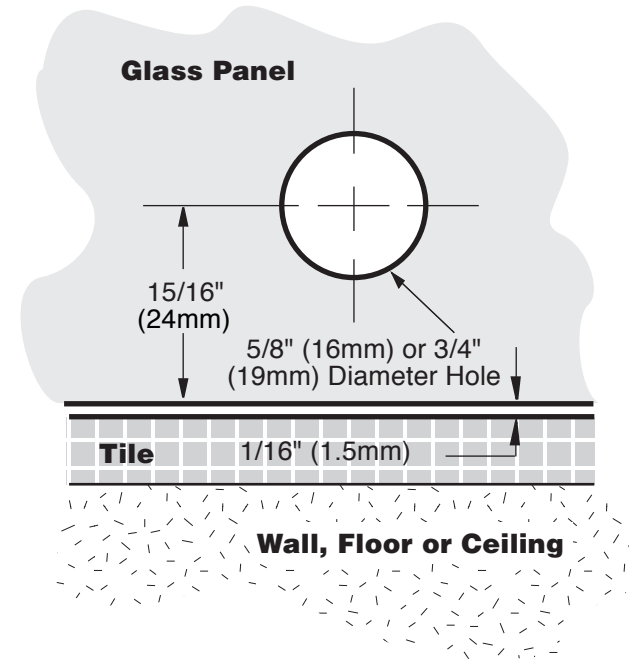


TYPICAL INSTALLATION



TEMPLATE

Important: Project measurements from the edge of the glass.

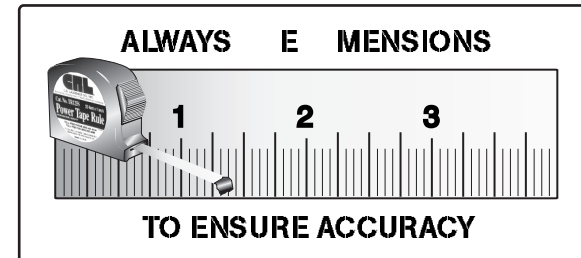


GLASS CLAMPS

THE TEMPLATE ON THIS PAGE APPLIES TO THE FOLLOWING CLAMPS:

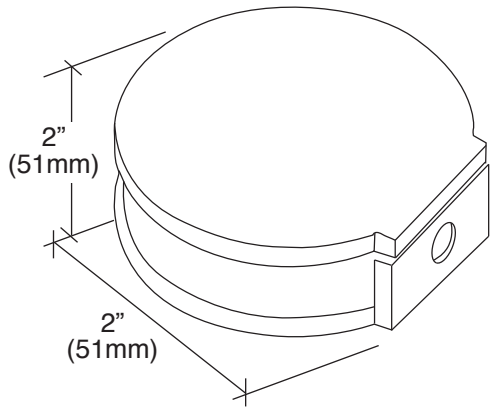
Square with Large Leg
CAT. No. SGC039

Beveled with Large Leg
CAT. No. BGC039

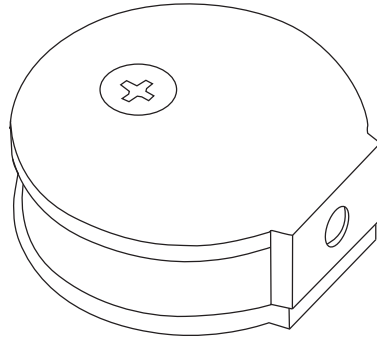




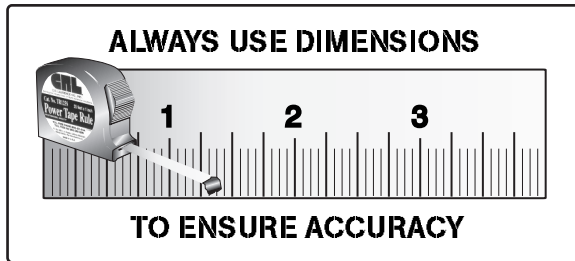
C.R. LAURENCE CO., INC.
PROFESSIONAL QUALITY



FRONT VIEW



REAR VIEW



GLASS CLAMPS

Fixed Panel Round Style

CAT. No. RC79

Specifications:

Material: Solid brass

Glass Thickness Range: 5/16" (8mm) to 1/2" (12mm)

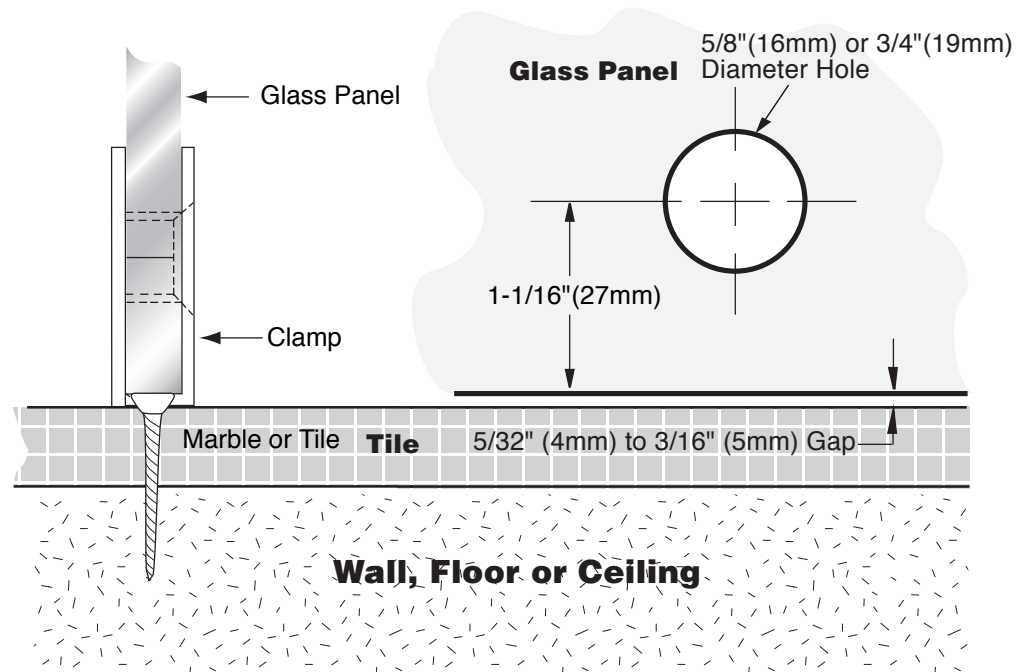
Hole Size Required: 5/8" (16mm) or 3/4" (19mm)

Includes: Mounting screws and gaskets

TEMPLATE

Important: Project measurements from the edge of the glass

TYPICAL INSTALLATION



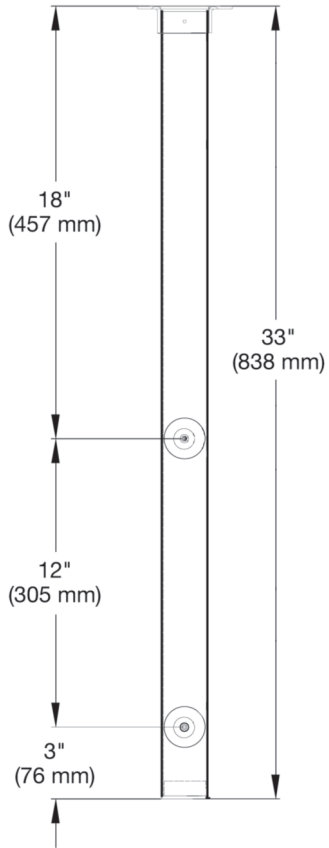


C.R. Laurence Company has established a Technical Sales Department to assist our customers. If you have any questions concerning shower door hardware or any product from CRL, please contact us at:
(800) 421-6144 in the U.S.,
or (877) 421-6144 from Canada,
and ask for Extension 7740



Kit Contents

- 1 Each – 33" (838 mm) length of 2" (51 mm) diameter Round Tubing, two Rivet Nuts, and Flat Style End Cap
- 2 Each – Tube Adapters with 1-1/2" (38 mm) diameter End Caps (with Threaded Stud)
- 1 Each – Removable Top Flange with Set Screw



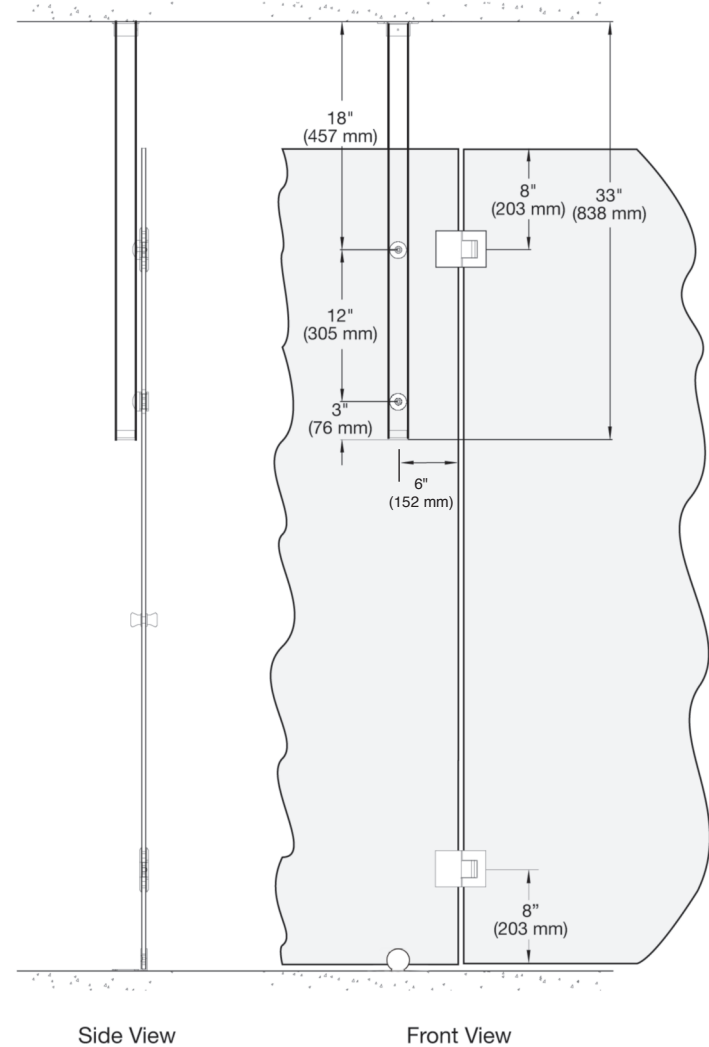
Specifications:

- Material:** Stainless Steel or Brass Tubing
- Glass Thickness Range:** 5/16" (8mm) to 1/2" (12mm)
- Hole Size Required:** 3/4" (19mm)

The VPK33 requires (2) 3/4" (19 mm) holes in the fixed glass. The holes must be 12" (305 mm) from center-to-center. The recommended distance in from the vertical edge of the glass is 6" (152 mm).

Note: There are size limitations when hinging a door off a panel fastened using the VPK33. Call our Frameless Shower Department for details.

Typical Installation



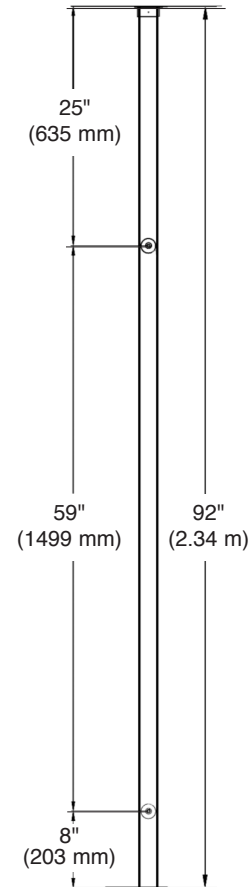
CAT No. VPK33 (CEILING MOUNT) Glass Fabrication



Typical Installation

Kit Contents

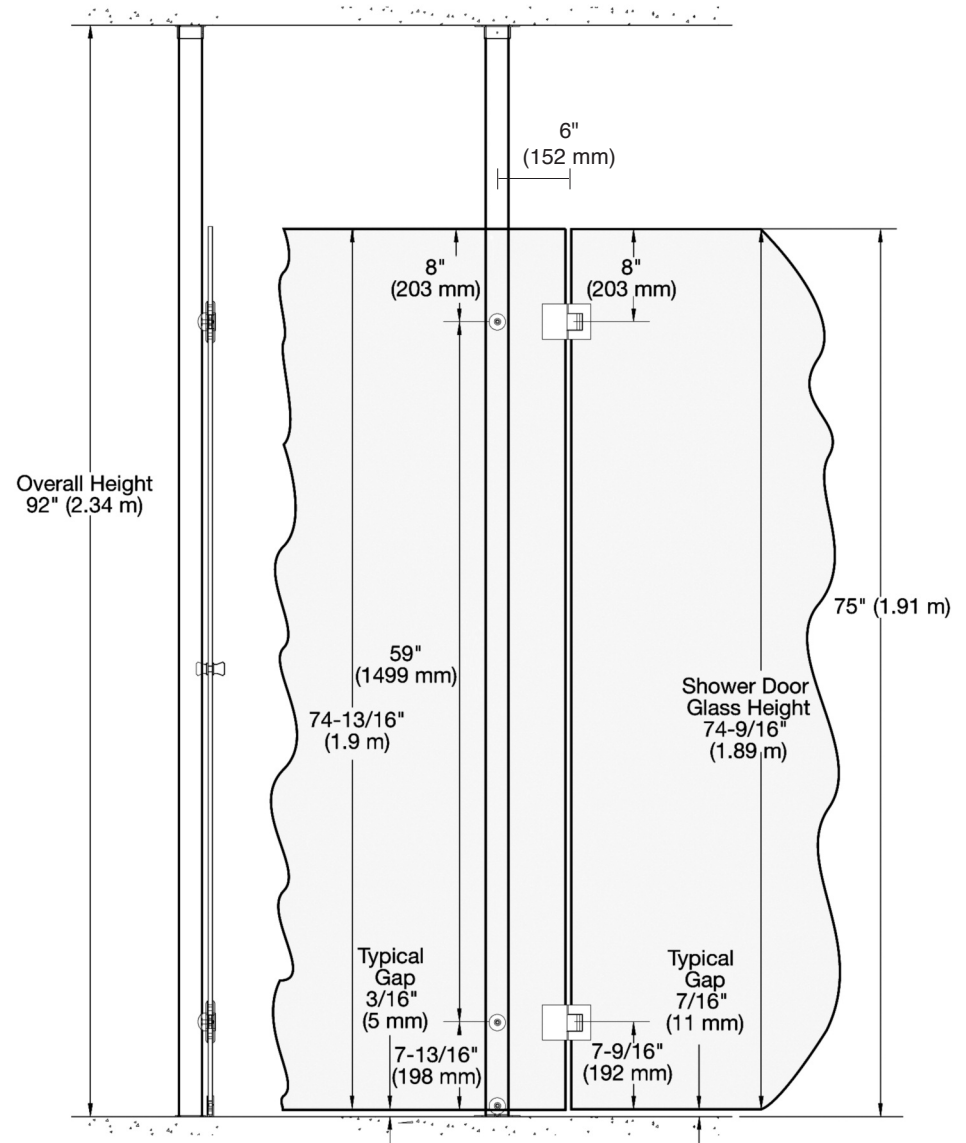
- 1 Each – 92" (2.34 m) length of 2" (51 mm) diameter Round Tubing with welded Bottom Flange and two Rivet Nuts
- 2 Each – Tube Adapters with 1-1/2" (38 mm) diameter End Caps (with Threaded Stud)
- 1 Each – Removable Top Flange with Set Screw



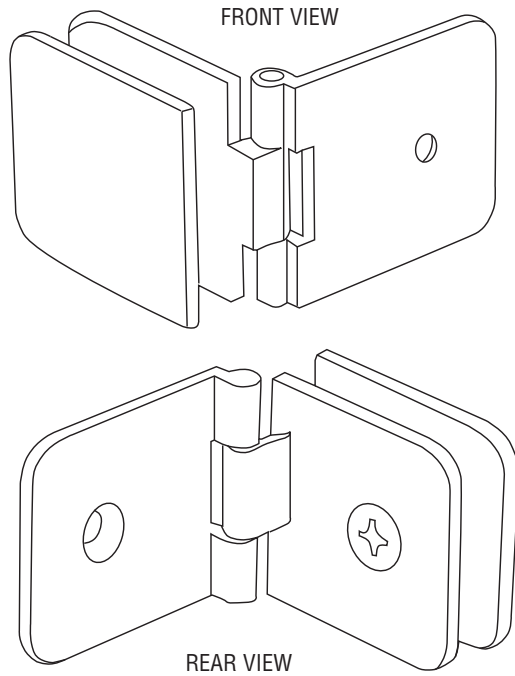
Specifications:

Material: Stainless Steel or Brass Tubing
Glass Thickness Range: 5/16" (8mm) to 1/2" (12mm)
Hole Size Required: 3/4" (19mm)

The VPK92 requires (2) 3/4" (19 mm) holes in the fixed glass. The bottom stand-off is 8" (203 mm) from the floor when the post is fastened. If a fixed panel were mounted to the floor in U-channel and a 3/16" (5 mm) deduction were made to allow for the channel, the first hole in the glass (from the bottom up) would be located at 7-13/16" (198 mm). This dimension is from the bottom of the glass to the center of the 3/4" (19 mm) diameter hole. The holes must be 59" (305 mm) from center-to-center. The recommended distance in from the vertical edge of the glass is 6" (152 mm).



CAT No. VPK92 (FLOOR-TO-CEILING MOUNT) Glass Fabrication



Specifications:

Material: Solid brass

Glass Thickness Range: 5/16" (8mm) to 1/2" (12mm)

Hole Size Required: 7/8" (22mm)

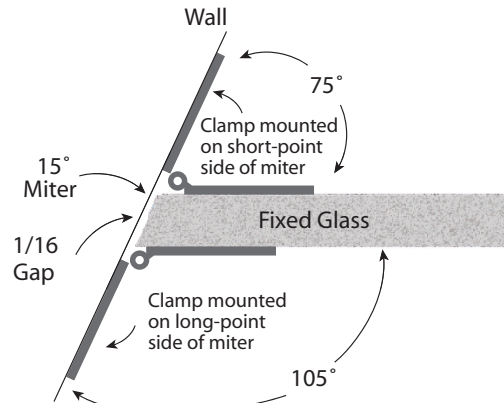
Includes: Mounting screws and gaskets

GLASS CLAMPS

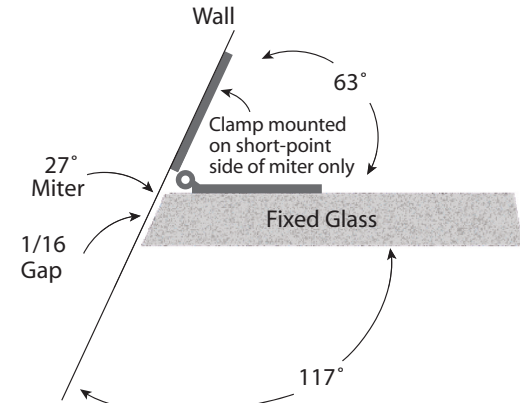
Adjustable Wall Mount Clamp

Cat No. ADJ037

Note: The ADJ037 Adjustable Wall-to-Glass Clamp is designed for use in fastening a fixed panel of glass that runs into a wall at an angle other than 90 degrees. It is important to note the clamp can be mounted to the wall on either the long-point side or short-point side of the miter, on angles up to 25 degrees from 90 degrees (not lower than 65 degrees or over 115 degrees - see Example 1 below). For angles more than 25 degrees from 90 degrees (lower than 65 degrees or over 115 degrees), the wall-mounted portion must be fastened on the side of the glass that has the short-point of the miter (see Example 2 below).



Example 1



Example 2

Identifying Your Angle and Miter:

In order to use the ADJ037, the angle the glass runs into the wall must be properly identified. Please use the following as a guideline to correctly identify the angle and miter required:

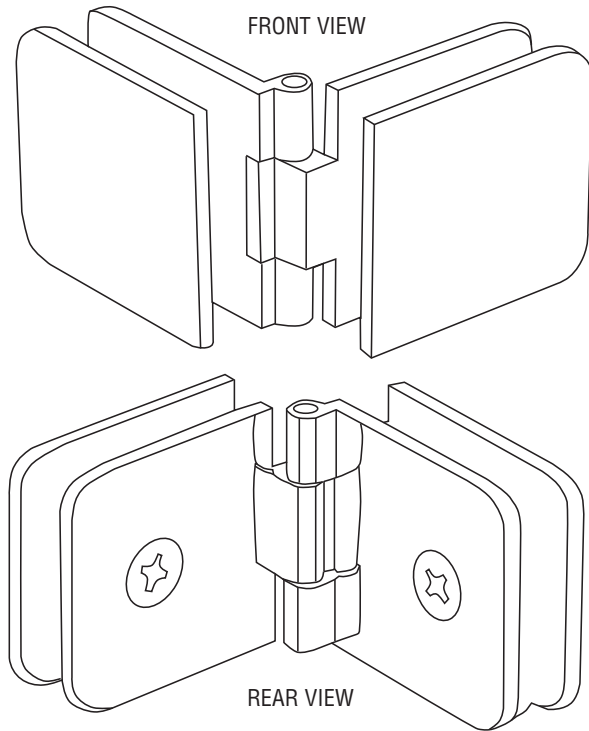
When a fixed panel of glass runs into a wall squarely at 90 degrees, the angle/miter is considered "0". "0" means "no miter" on the glass, just a polished edge. If a glass panel runs into a wall at an angle, a miter should be put on the glass to correspond with the number of degrees from 90 (or "0" miter) the glass is to be mitered. In Example 1 above, the glass is running into the wall at 105°/75°. Each of these numbers is 15° from 90°. As shown in Example 1 above, a 15° miter is put on the glass. To get the correct hole location in the glass, use the chart to the right.

Hole Drilling Information

The table to the right addresses the dimension required from the long-point of the miter to the centerline of a 7/8" (22 mm) hole in the glass. **No U-notches are required for the ADJ037.** All dimensions shown already allow for a 1/16" (1.5 mm) clearance between the glass and the wall.

	Dimension from long-point of miter to center of 7/8" (22mm) diameter holes	
Angle	Mount to wall on short-point of miter	Mount to wall on long-point of miter
0° - 5°	1-1/2" (38 mm)	1-1/2" (38 mm)
6° - 10°	1-9/16" (40 mm)	1-7/16" (37 mm)
11° - 15°	1-5/8" (41 mm)	1-7/16" (37 mm)
16° - 20°	1-11/16" (43 mm)	1-3/8" (35 mm)
21° - 25°	1-3/4" (44 mm)	1-3/8" (35 mm)
26° - 30°	1-7/8" (48 mm)	N/A
31° - 35°	1-15/16" (49 mm)	N/A
36° - 40°	2-1/16" (52 mm)	N/A
41° - 45°	2-3/16" (56 mm)	N/A
46° - 47°	2-5/16" (59 mm)	N/A
48° - 50°	2-7/16" (62 mm)	N/A

Note: All dimensions above already provide for a 1/16" (1.5 mm) clearance between the glass and the wall.



Specifications:

Material: Solid brass

Glass Thickness Range: 5/16" (8mm) to 1/2" (12mm)

Hole Size Required: 7/8" (22mm)

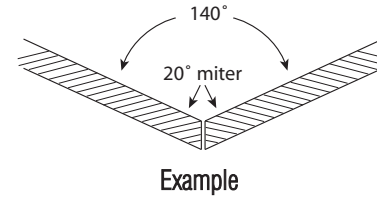
Includes: Mounting screws and gaskets

GLASS CLAMPS

Adjustable Glass-to-Glass Clamp

CAT No. ADJ180

Note: The ADJ180 Adjustable Glass-to-Glass Clamp is designed for use in joining two pieces of glass that come together at a non-traditional angle. The table below addresses hole dimensions for each of the two panels of glass, evenly dividing the angle and having equal miters on each piece of glass.



To determine the correct miter to use on each piece, use the following formula:

FORMULA : 180 minus "A" divided by 2 = your miter ("A" = your angle)

Example: the angle is 140 degrees. $180 - 140 = 40$. $40 / 2 = 20$ degree miter on each piece of glass.

Angle	Dimension from longpoint of miter to center of 7/8" (22mm) diameter holes
90 – 95 Degrees	1-7/8" (48 mm)
96 – 100 Degrees	1-3/4" (44 mm)
101 – 105 Degrees	1-11/16" (43 mm)
106 – 110 Degrees	1-5/8" (41 mm)
111 – 115 Degrees	1-5/8" (41 mm)
116 – 120 Degrees	1-5/8" (41 mm)
121 – 125 Degrees	1-9/16" (40 mm)
126 – 130 Degrees	1-1/2" (38 mm)
131 – 135 Degrees	1-1/2" (38 mm)
136 – 140 Degrees	1-7/16" (37 mm)
141 – 145 Degrees	1-3/8" (35 mm)
146 – 150 Degrees	1-3/8" (35 mm)
151 – 155 Degrees	1-5/16" (33 mm)
156 – 160 Degrees	1-5/16" (33 mm)
161 – 165 Degrees	1-5/16" (33 mm)
166 – 170 Degrees	1-1/4" (32 mm)
171 – 175 Degrees	1-1/4" (32 mm)
176 – 180 Degrees	1-3/16" (30 mm)

Note: All dimensions above already provide for a 1/16" (1.5 mm) clearance between the two pieces of glass.



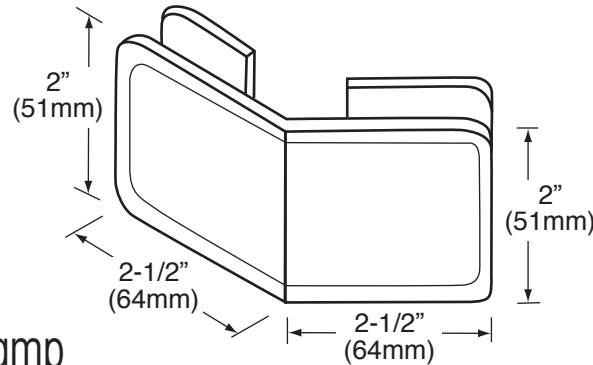
C.R. LAURENCE CO., INC.
PROFESSIONAL QUALITY

Specifications:

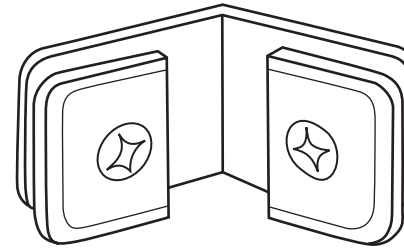
Material: Solid brass
Glass Thickness Range: 3/8" (10mm) to 1/2" (12mm)
Hole Size Required: 3/4" (19mm)
Includes: Mounting screws and gaskets

HEAVY-DUTY GLASS CLAMPS

Beveled 135° Glass Clamp
CAT. No. BGC135



FRONT VIEW

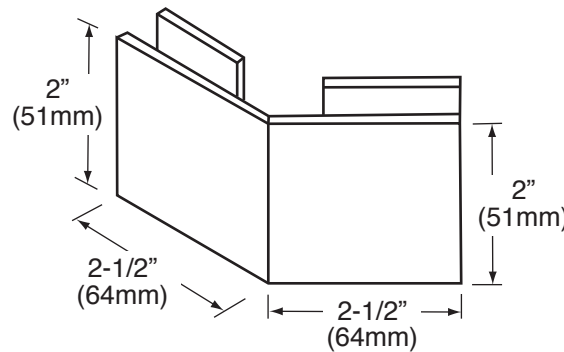


REAR VIEW

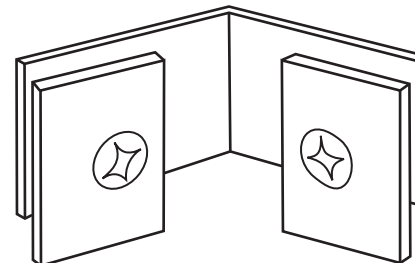
Template Shown on Next Page

HEAVY-DUTY GLASS CLAMPS

Square 135° Glass Clamp
CAT. No. SGC135



FRONT VIEW

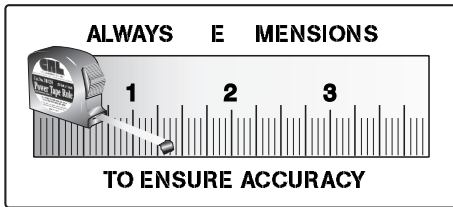


REAR VIEW

Template Shown on Next Page

Specifications:

Material: Solid brass
Glass Thickness Range: 3/8" (10mm) to 1/2" (12mm)
Hole Size Required: 3/4" (19mm)
Includes: Mounting screws and gaskets



GLASS CLAMPS

The Template Options on this Page Apply to the Following Clamps:
Beveled 135° Glass Clamp

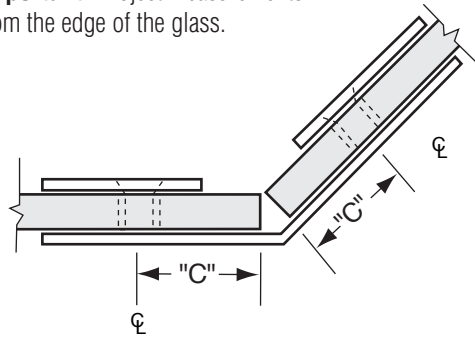
Cat. No. BGC135

Square 135° Glass Clamp

Cat. No. SGC135

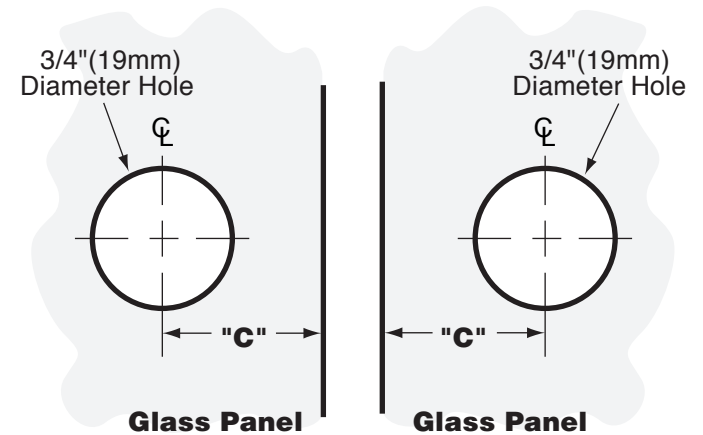
TYPICAL INSTALLATION

Important: Project measurements from the edge of the glass.



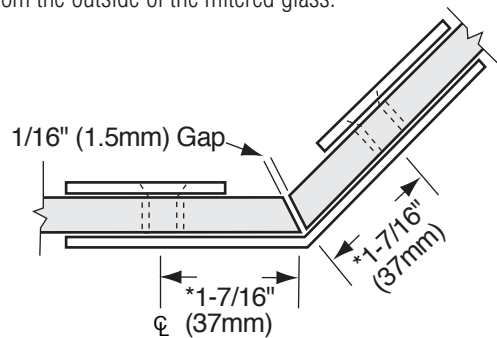
Glass Thickness	"C"* Measurement
3/8" (10mm)	1-5/16" (33mm)
1/2" (12mm)	1-1/4" (32mm)

TEMPLATE OPTION FOR SQUARE CUT GLASS



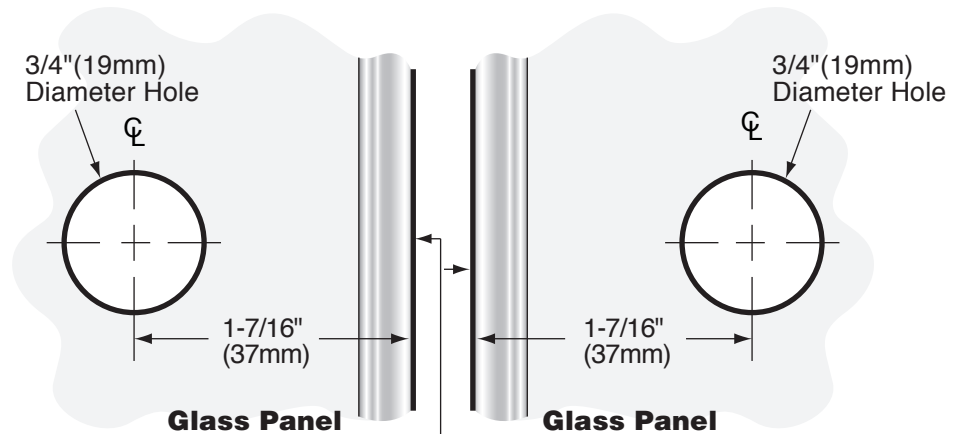
TYPICAL INSTALLATION

Important: Project measurements from the outside of the mitered glass.



*From the Outside Edge of Miter

TEMPLATE OPTION FOR 22-1/2° MITERED GLASS



Outside Edge of Miter



C.R. LAURENCE CO., INC.
PROFESSIONAL QUALITY

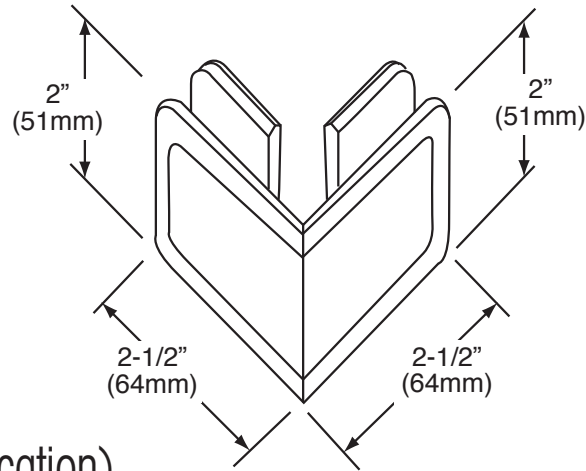
Specifications:

Material: Solid brass
Glass Thickness Range: 3/8"(10mm) to 1/2"(12mm)
Hole Size Required: 3/4" (19mm)
Includes: Mounting screws and gaskets

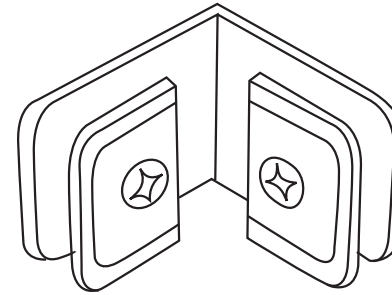
HEAVY DUTY GLASS CLAMPS

90° Glass Clamp
(Glass-to-Glass Application)

CAT. No. BGC90



FRONT VIEW



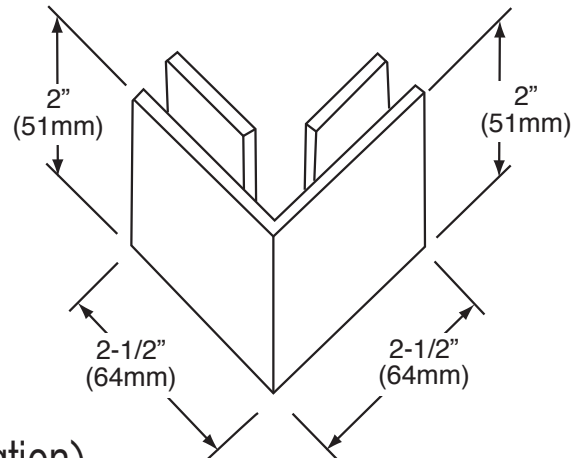
REAR VIEW

Template Shown on Next Page

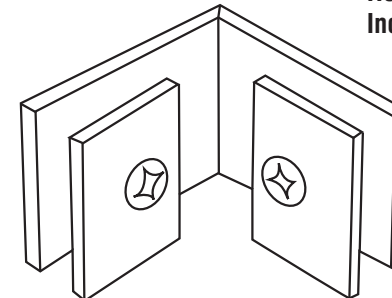
HEAVY DUTY GLASS CLAMPS

90° Glass Clamp
(Glass-to-Glass Application)

CAT. No. SGC90



FRONT VIEW



REAR VIEW

Template Shown on Next Page

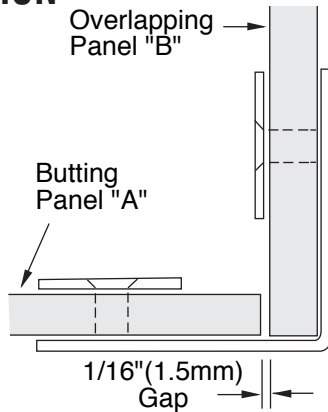
Specifications:

Material: Solid brass
Glass Thickness Range: 3/8"(10mm) to 1/2"(12mm)
Hole Size Required: 3/4" (19mm)
Includes: Mounting screws and gaskets

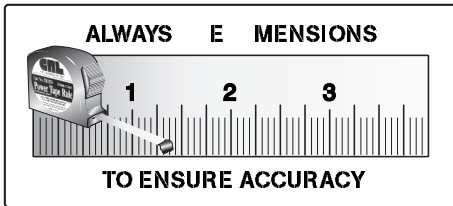
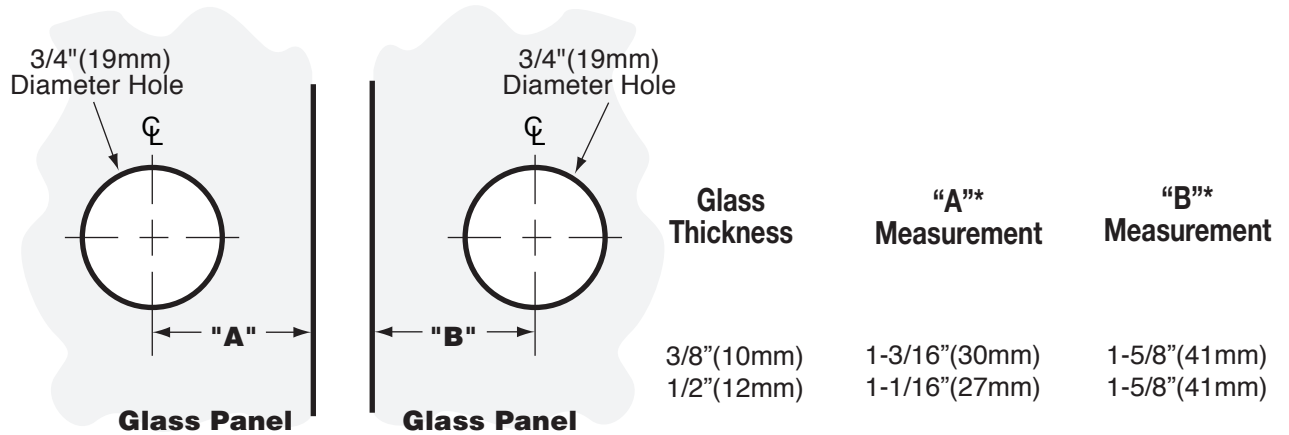


TYPICAL INSTALLATION

Important: Project measurements from the edge of the glass

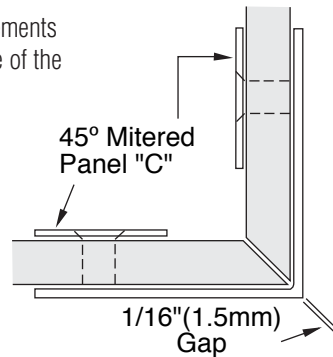


TEMPLATE OPTION FOR SQUARE CUT GLASS

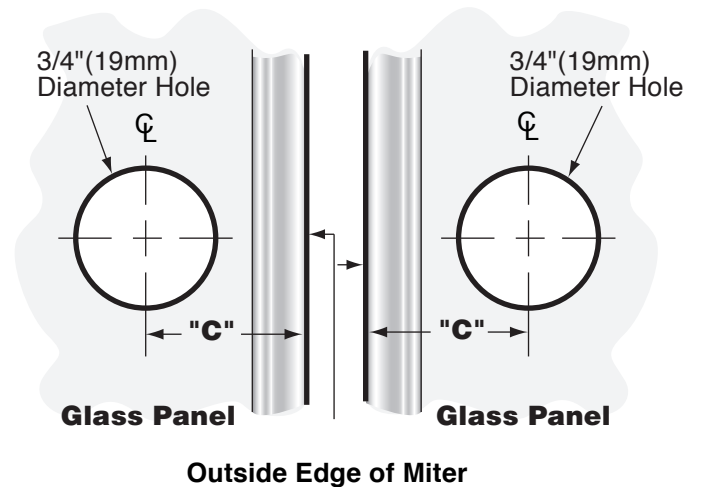


TYPICAL INSTALLATION

Important: Project measurements from the outside of the mitered glass.



TEMPLATE OPTION FOR 45° MITERED GLASS



GLASS CLAMPS

The Template Options on This Page Apply to the Following Clamps:

90° Glass Clamp
(Glass-to-Glass Application)

CAT. No. BGC90

90° Glass Clamp

CAT. No. SGC90

Glass Thickness	"C"* Measurement
3/8" (10mm)	1-9/16" (40mm)
1/2" (12mm)	1-9/16" (40mm)

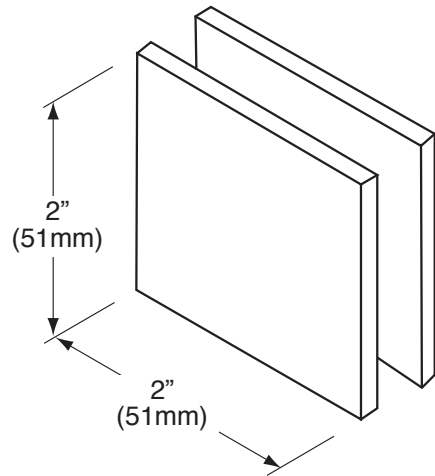
*From the Outside Edge of Miter



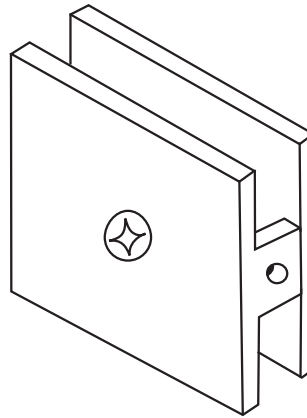
C.R. LAURENCE CO., INC.
PROFESSIONAL QUALITY

Specifications:

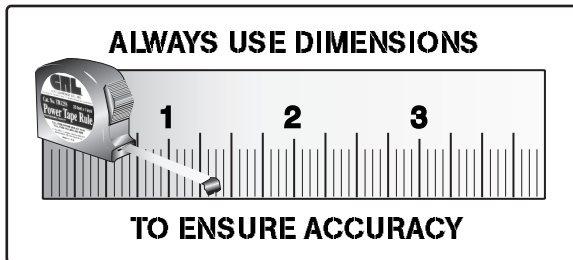
Material: Solid brass
Glass Thickness Range: 3/8"(10mm) to 1/2"(12mm)
Hole Size Required: 5/8"(16mm) or 3/4"(19mm)
Includes: Mounting screws and gaskets



FRONT VIEW



REAR VIEW



HEAVY DUTY GLASS CLAMPS

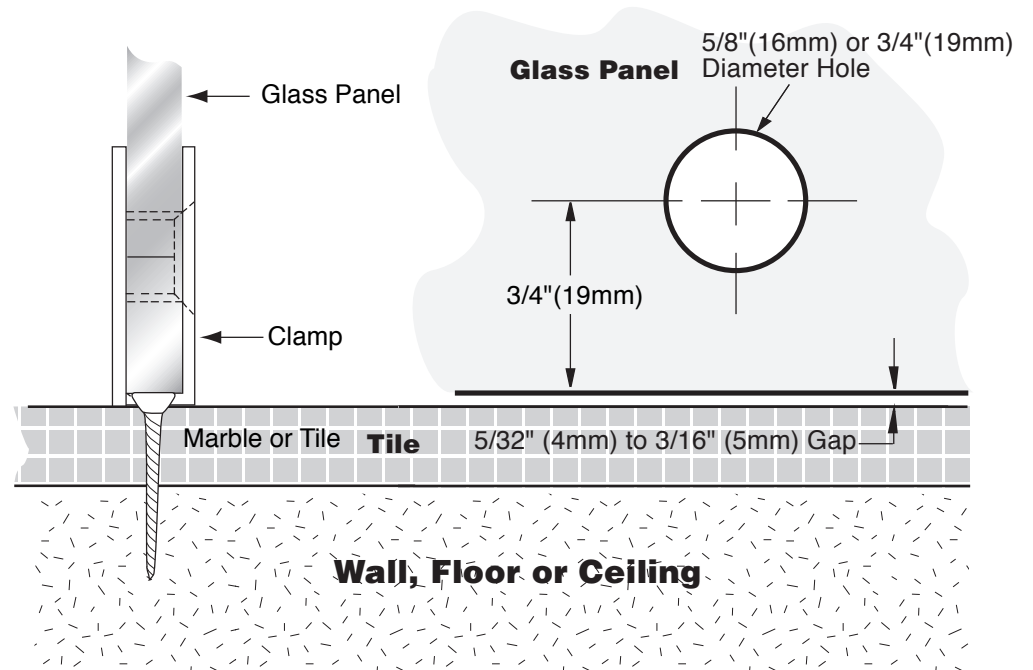
Fixed Panel Square U-Clamp

CAT. No. SCU4

TEMPLATE

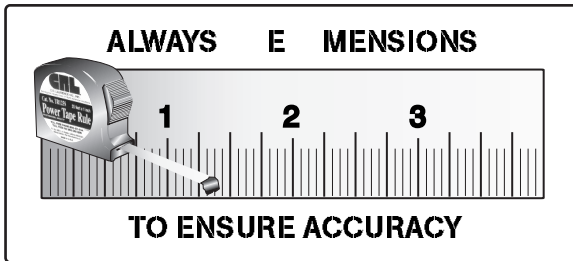
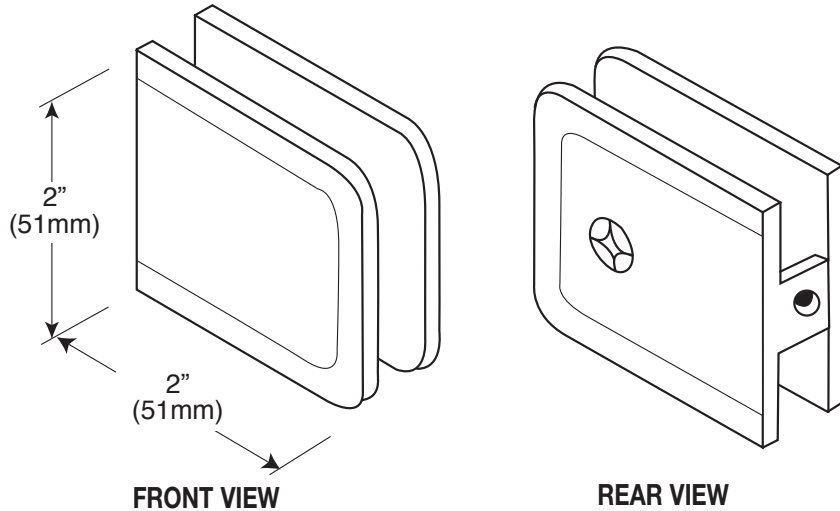
Important: Project measurements from the edge of the glass

TYPICAL INSTALLATION





C.R. LAURENCE CO., INC.
PROFESSIONAL QUALITY



HEAVY DUTY GLASS CLAMPS

Fixed Panel Beveled U-Clamp

CAT. No. BCU4

Specifications:

- Material:** Solid brass
- Glass Thickness Range:** 3/8"(10mm) to 1/2"(12mm)
- Hole Size Required:** 5/8"(16mm) or 3/4"(19mm)
- Includes:** Mounting screws and gaskets

TEMPLATE

Important: Project measurements from the edge of the glass

TYPICAL INSTALLATION

