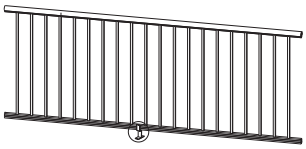
urbanrail®

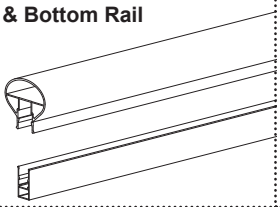
# Installation Instructions

## Component Profiles

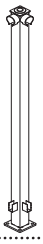
URTBP8
**8ft Pre-Assembled Picket Rail**



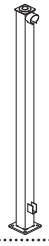
URTB6
**6ft Top & Bottom Rail**



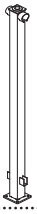
URCP
**Corner Post**



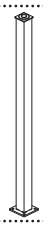
UREP
**End Post**



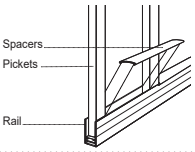
URLP
**Line Post**



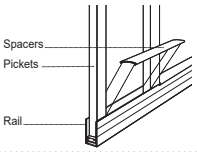
URSP
**Stair Post**



URSP6
**Straight Pickets for 6ft**

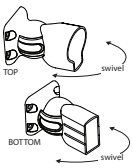



URSSP6
**Straight Stair Pickets for 6ft**

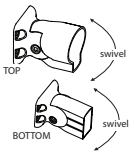



URGP
**Gate Package**

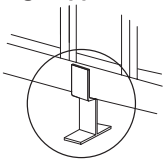
URAB
**Angle Bracket Set**



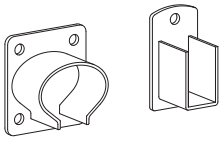

URSB
**Stair Angle Bracket Set**



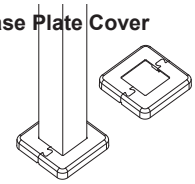

URLS
**Bottom Leg Support**



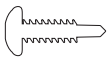
URWB
**Wall Bracket Set**



URBC
**Post Base Plate Cover**

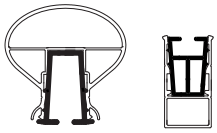


URCS50
**Self Drilling Screws**

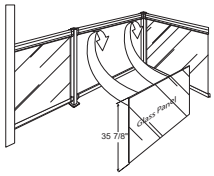


URSL4
**Structural Lags**

URGG
**Glass Gasket**



CTG 6-66
**Regal Tempered Glass**




## General Sequence of Installation

### Pre-Assembled Panels

STEP 1: Install Posts

STEP 2: Install Panels

### Component System

STEP 1: Install Posts

STEP 2: Install Top & Bottom Rails

STEP 3: Install Pickets

## Recommended Tools

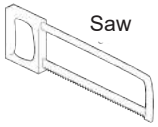
Drill



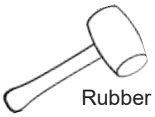
3/16" & 1/8" Drill Bits

Tape Measure

Level



Saw



Rubber Mallet

Wax Pencil

Safety Glasses

Gloves

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## Post Installation (UREP, URCP, URLP, URSP)

Identify where you will be placing your posts.

Mark from the edge of the deck 1″-2″ inward. This mark is where you will place the edge of your post base.

**IMPORTANT**
**Post Spacing should not exceed 6ft for glass and 8ft for picket railing.**

With proper under-blocking installed fasten your post in place with only 1 to 2 fasteners.

It is important you check with your local Building Department for approved fastener sizes for the deck you are building.

At this stage, **DO NOT** fasten your fasteners all the way into your base. Leave fasteners loose, to allow posts to tilt enough for top rails to be installed into top rail sleeves of posts.

Repeat these steps for your remaining posts.

**TIP:** Position and install all corner posts first, then measure and center all line posts.

## Pre-assembled Panel Installation (URTBP8)

Measure the distance between the posts at the base of the post.

When installing rails in posts, deduct 1/2” from this measurement for cut length, to allow for inside welds of post sleeves.

For Wall brackets or angle brackets, cut rails to length so that rails will be fully seated in rail sleeves on brackets (no ½” deduction).

Mark and cut rails.

Use a handsaw or non-ferrous aluminum cutting blade.

Always wear safety glasses when cutting

Install gap cover on bottom rail sleeves of posts before installing the bottom rails.

Drill holes every 16” - 24” in underside of bottom rails for water drainage, using a 3/16” diameter drill bit.

Make sure to drill through bottom and middle channel.

**Be careful not to drill through top spacer**

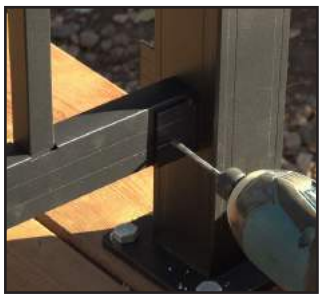
Drop the bottom rail into the bottom rail sleeves, then tilt the top of posts to allow top rails to slide into top rail sleeves.

Level posts, then fully secure fasteners attaching posts to substrate.

## Pre-assembled Panel Installation (URTBP8) continued...

Once post bases are tightly secured, double check that post is plumb with a level and pre-drill through welded post brackets and top rails.

Use a 1/8″ (3mm) drill bit size when using URCS50 screws.



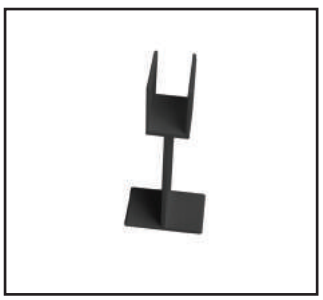
Repeat step for bottom rails.

Fasten top rails to posts and brackets using URCS50 screws.

**!** Warning: Be careful not to over-torque screws into aluminum post.

Fasten bottom rails to posts and brackets using URCS50 screws.

## Leg Support Installation (URLS)



Final step, install the URLS leg support.

Use bottom rail support legs for all rails that span more than 48”.

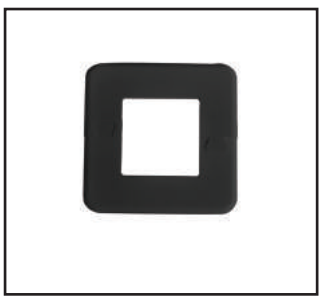
Measure distance between posts and find center.

Slide support leg under bottom rail.

Pre-drill using 1/8” (3mm) drill bit size and fasten support leg into bottom rail using URCS50 screws.

Repeat these steps for your remaining sections.

## Post Base Cover Installation (URBC)



Complete your installation by giving your railing a finished look with the URBC Post Base Covers.

Place URBC covers on each side of post.

Connect together by locking the pieces together.

**TIP:** Add some silicone to top of bolt heads and push base cover onto silicone to secure in place.

Post base covers will cover lag bolts and give your project a clean finished look.

## Top and Bottom Rail Installation (URTB6)

To install rails, measure the distance between the posts at the base of the post. Deduct 1/2” from this measurement and cut rails.

For Wall brackets or angle brackets, cut rails to length so that rails will be fully seated in rail sleeves on brackets (no ½” deduction).

Mark and cut rails.

Use a handsaw or non-ferrous aluminum cutting blade.

Always wear safety glasses when cutting

Slide top rail into welded post bracket.

Slide bottom rail into bottom welded post bracket.

Using a level, plumb all posts.

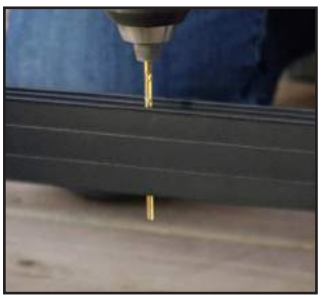
While leveling posts, install remaining fasteners into post base to tightly secure using structural URSL fasteners.

Once post bases are tightly secured, double check that post is plumb with a level and attach top rails to welded post brackets with URCS-50 screws.

**TIP:** Pre-drill using 1/8” (3mm) drill bit.

Fasten bottom rails to posts using a URCS-50 screw.

**TIP:** Pre-drill using 1/8” (3mm) drill bit.



Drill 3/16” diameter weep holes in bottom rail every 16″ – 24” to allow any water/moisture to escape during the various seasons.

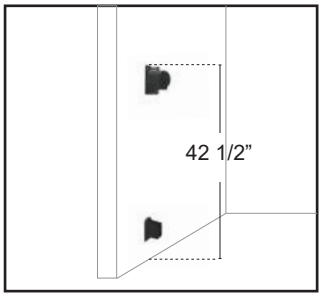
Use bottom rail support legs for all rails that span more than 48”.

(See Instructions Page 2)

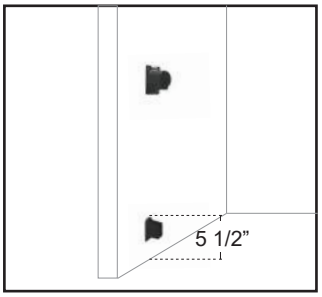
Complete your installation by giving your railing a finished look with the URBC Post Base Covers.

(See Instructions Page 2)

## Wall Bracket Installation (URWB)




Position upper bracket up 42-1/2” from the floor to the top of the upper bracket flange.



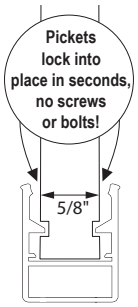

Position lower bracket 5-1/2” from the floor to the top of the bottom bracket flange.

| Fastener Guide | | |
|---|---|---|
| Surface | Screw Size | Drill Bit Size |
| Aluminum | #10 x 3/4” | 1/8” (3mm) |
| Brick/Concrete | #10-14 x 1” (Screw with Anchor) | 5/16” (8mm) |
| Wood | #10 x 2 1/2” | not required |

Use appropriate fasteners to secure brackets to surface.

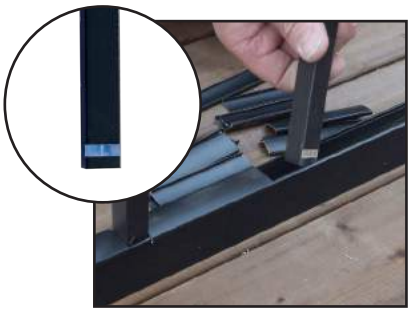
Finish by attaching top and bottom rails to wall brackets using URCS50 (sold separately)

## Picket Installation (URSP6, URSSP6)



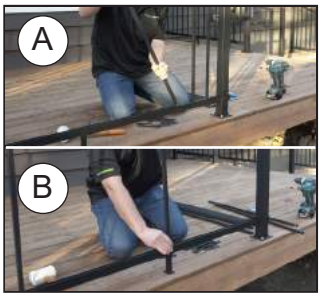

The key to the system are the patented “locking” pickets.

Each picket must be installed with the grooves parallel to the top and bottom rails in order for pickets to interlock with rails



Important to note that pickets are grooved on two sides of each end of the picket.

The pickets lock the top and bottom rails together. This eliminates the need for screws in the pickets




**A.** If you HAVE NOT had to cut your top and bottom rails, then you can start assembling your pickets starting from one side.

**B.** If you have cut your top and bottom rails, then start from the center and move outward towards the posts symmetrically.

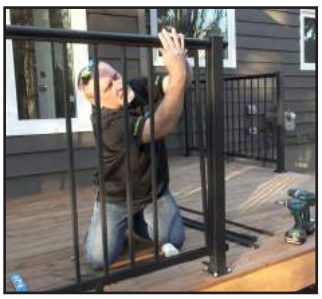
Start locking your picket into the bottom rail first and then snap into the top rail. You will know when it locks into place when you hear/feel the “click”.

**TIP:** Use a level to ensure your pickets are placed straight when you begin.

As you are installing the pickets, you will want to install the aluminum spacers.

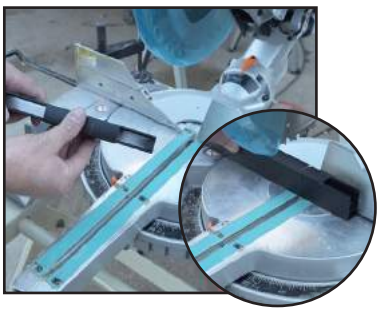
Snap the aluminum spacer in the bottom and tap the picket snug next to it with a rubber mallet.

It’s important that when you get to the end of a section to put in the last four pickets together. This will allow enough room for the final pickets to tilt in.



Snap in the top and bottom spacers, and tap the picket snug next to it using a rubber mallet.

Spread pickets and snap on remaining spacers. Cut last spacers to fit.



Cut last spacers as needed.

**TIP:** Use a spare bottom rail and snap in spacer. This will keep the spacer in place while cutting.

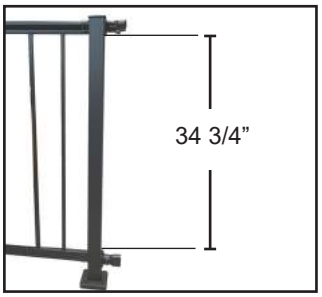
Always wear safety glasses when cutting

## Angle Bracket Installation (URAB)

Attach upper bracket with top of flange touching post cap.

Use URCS50 screws to attach bracket into post.

**TIP:** Pre-drill using 1/8" (3mm) drill bit.




Attach lower bracket with 34-3/4" clear distance between upper and lower brackets.

Use URCS50 screws to fasten rails into top bracket.

Use URCS50 screws to fasten rails into bottom bracket.

## Stair Railing Installation (Option 1: Post on stair tread)

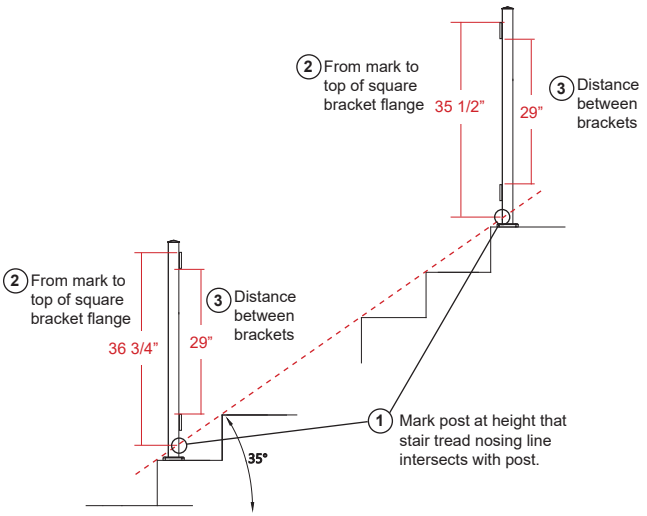
**The following installation is based on 36" Stair Rail height as measured vertically from the nose of the stair treads, with a stair angle of 35 degrees (7.5/10.5 rise/run or equivalent). Measurements will vary slightly depending on angle of stairs.**

What you will need:

- Stair Post
- Stair Angle Bracket
- Screws
- Top and Bottom Rail
- Stair Pickets

Position, level and secure posts to which stair rails will attach.

Posts must be level before continuing the stair rail installation





Take bottom rail and lay it across the stair tread nosing. Mark the bottom side intersection of the rail and post.

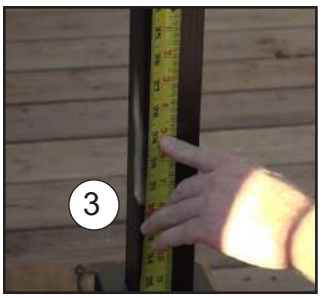
Install method shown is for 35° stairs.


Measure from the marks made up 36 3/4" towards the top of the post.

This is the position of the top of the URSB Stair Bracket flange.

Pre-drill and use URSC50 screws to attach bracket flange at this height.

Use a 1/8" (3mm) drill bit size when using URCS50 screws.




Measure from the underside of the top bracket flange down the post 29" and ,make a mark.

This is the position of the top of the bottom flange.

## Stair Railing Installation (Continued)

Pre-drill and use URSC50 screws to attach bracket flange at this height.

**TIP:** Pre-drill using 1/8" (3mm) drill bit when using URCS50 screws.

Proper position of bracket is with bottom rail "arc" at top.

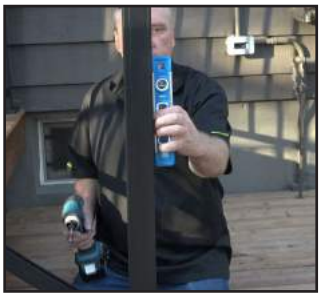
Repeat the above steps to the other stair posts.

Measure for rail length and cut rails.

Loosen bolts/lags holding bottom stair post, allowing room for top and bottom rails to slide into bracket sleeves.

**TIP:** Install bottom rail first.

Install top rail into swivel bracket sleeves



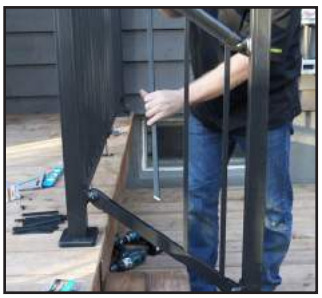
Level post

Tighten post bolts/ lags

Use URCS50 screws (sold separately) to fasten swivel bracket to top rail.

**TIP:** Pre-drill using 1/8" (3mm) drill bit.

Use URCS50 screws (sold separately) to fasten swivel bracket to bottom rail.



Install pickets and spacers as described in previous "installing pickets" paragraph to complete the stair rail section.

Spacing between pickets should not exceed 4"

# Stair Railing Installation (Option 2: Post in front of stair tread)

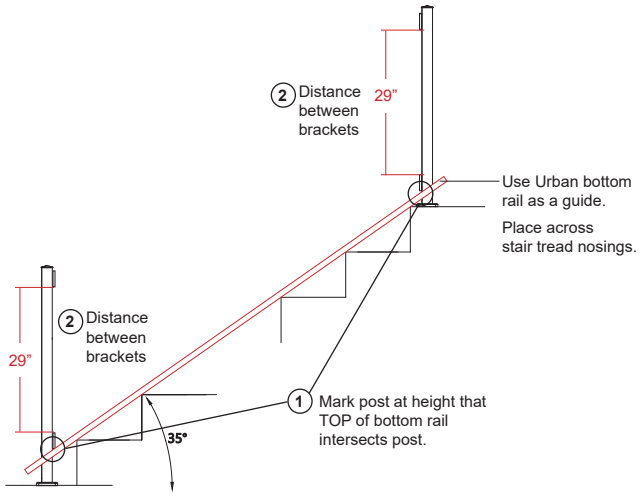
**The following installation is based on 36” Stair Rail height as measured vertically from the nose of the stair treads, with a stair angle of 35 degrees (7.5/10.5 rise/run or equivalent). Measurements will vary slightly depending on angle of stairs.**

What you will need:

- Stair Post
- Stair Angle Bracket
- Screws
- Top and Bottom Rail
- Stair Pickets

Position post 3”-4” in front of last step. Level and secure posts to which stair rails will attach.

Posts must be level before continuing the stair rail installation





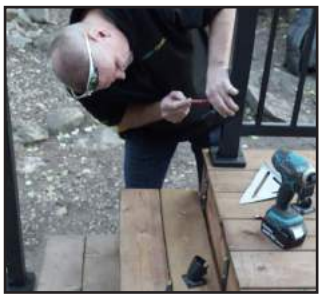
Lay bottom rail across stair tread nosing and make a mark where the top of the rail crosses the post. This will be the position of the bottom of the swivel bracket at the bottom of the stairs.


Make a mark at the intersection of the top of the bottom rail and the post. This marks the position of the bottom of the swivel bracket at the top of the stairs.

Line up bottom of swivel bracket flange to intersection line made and make a mark there at the top of the bracket flange.

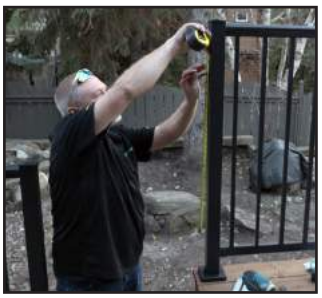

Measure from the top line (top of the bottom swivel bracket flange) 29”. Make a mark.

This is where the bottom of the top swivel bracket flange will be positioned.



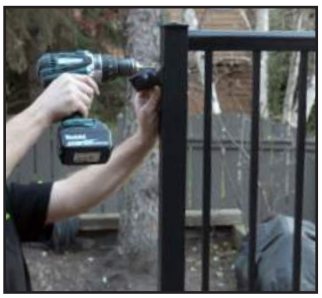
Repeat steps on opposite post.

Line up bottom of swivel bracket flange to intersection line made and make a mark there at the top of the bracket flange.



Measure from the top line (top of the bottom swivel bracket flange) 29”. Make a mark.

This is where the bottom of the top swivel bracket flange



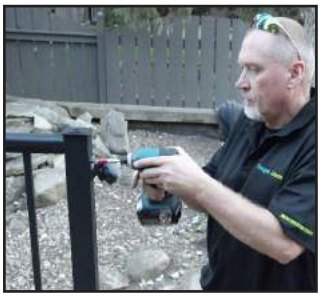
Pre-drill and screw top swivel brackets into post. Repeat step for opposite post.

Pre-drill and screw bottom swivel brackets into post. Repeat step for opposite post.

**!** IMPORTANT: do not fully attach swivel brackets to post. Keep loose as one side will need to be removed in the upcoming steps.

## Stair Railing Installation (Continued)

Measure distance between inside of swivel brackets and cut top and bottom rail to fit.



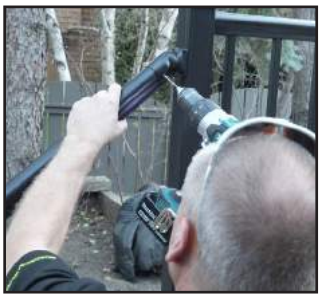
Remove ONE SIDE ONLY of top swivel brackets.

Remove ONE SIDE ONLY of bottom swivel brackets.

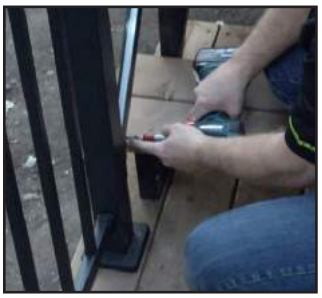
Slide top swivel bracket onto top rail.

Secure top swivel bracket into post using URCS50 screws (sold separately).

Secure bottom swivel bracket into post using URCS50 screws (sold separately).



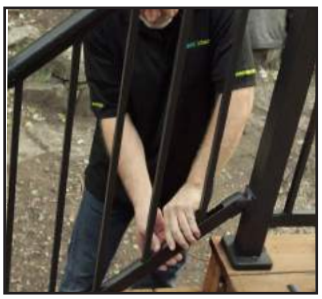
Pre-drill and secure top rail into top swivel bracket using URCS50 screws (sold separately).



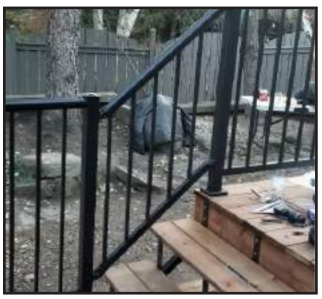
Pre-drill and secure bottom rail into bottom swivel bracket using URCS50 screws (sold separately).

Install pickets and spacers as described in previous “installing pickets” paragraph to complete the stair rail section.

Spacing between pickets should not exceed 4”



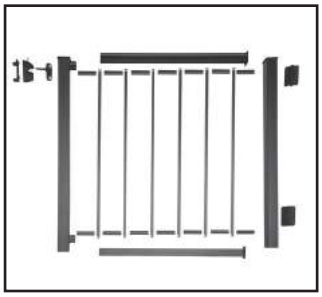
Cut final spacers to size to complete installation.



Stair Rail installation is now complete.

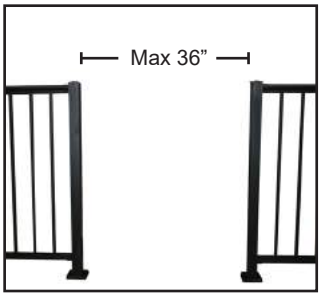
# Gate Installation (URGP)

## (Gate is designed to fit an opening of up to 36” )



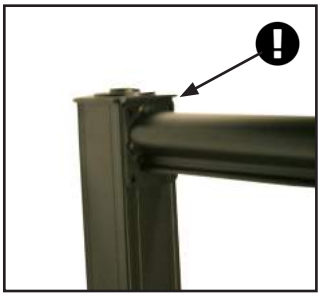
Gate kit includes one pair of hinges, pickets and spacers, hinge post, latch post, strike latch, and top & bottom rails with welded flanges on one end.

Gate assembly requires ¾” self-drilling screws (URCS50 sold separately)



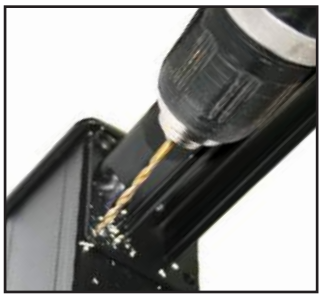

Gate is designed to fit an opening of up to 36” and the width may be cut to fit.
For opening smaller than 36”, subtract 6” from the clear opening distance (i.e. 34” opening – 6” = 28” rails).

This is the length to cut the rails.



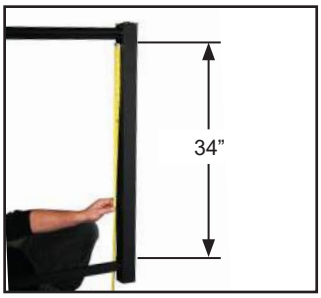
Place welded bracket of top rail under post cap.

Top of bracket should be touching the underside of the post cap.



**TIP:** Pre-drill using 1/8” (3mm) drill bit.

Attach the welded bracket to the post using a URCS50 screw (sold separately).




Measure from underside of top rail welded bracket 34”. This will be the position of the top of the bottom rail bracket.

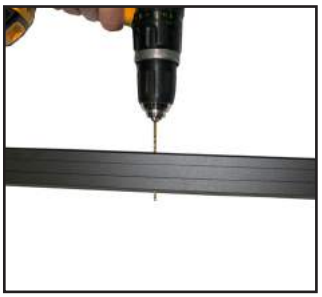
Repeat steps and attach bottom rail to post.

Next step is to attach the post with the welded brackets to the top and bottom rails.

Pre-dirll on the underside of the welded top post bracket, through the top rail.

Fasten the post to th rails using the URCS50 screws (sold separately)

Repeat step for bottom rail.



Drill holes every 16” - 24” in/ through the bottom rail for water drainage, using a 3/8” diameter drill bit.

## Gate Installation (Continued)

Lock in pickets. Push bottom of picket firmly into bottom rail until you feel the picket snap into bottom channel.

Next, snap top of picket into top rail channel.

**TIP:** Install all the pickets you need before installing the spacers.

Snap in spacers into the top and bottom rails.

Measure 4” from the top of the post and position the top of the hinge.

Measure 4” from the bottom of the post and place the bottom of the lower hinge.

Fasten front of hinges into post using URCS50 screws (sold separately)

**TIP:** Pre-drill using 1/8” (3mm) drill bit.

Fasten side of hinges into post using URCS50 screws (sold separately)

Position and fasten the gate latch pin to the post using USC50 screws.

**TIP:** Pre-drill using 1/8” (3mm) drill bit.

Secure gate latch pin into side of post using USC50 screws (sold separately)

Use USC50 screw to fasten bottom lower screws into railing end post.

Warning: Be careful not to over-torque screws into aluminum post.

Level and secure top hinge into post using USC50 screws.

Assemble gate latch by connecting appropriate connector.

Hinge set comes with post and wall connector brackets.

## Gate Installation (Continued)

Close gate latch pin into gate latch and mark position of gate latch onto post.

Use USC50 screws to fasten front of gate latch into post.

**TIP:** Pre-drill using 1/8" (3mm) drill bit.

Use USC50 screws to fasten side of gate latch into post.

Urban rail gate is now completed

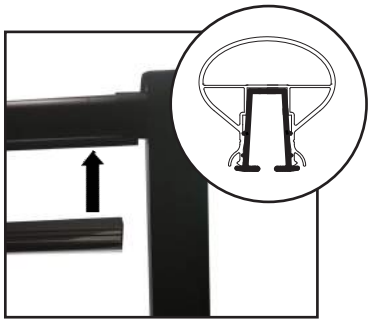
## Tempered Glass Installation (CTG)

Components you will need:

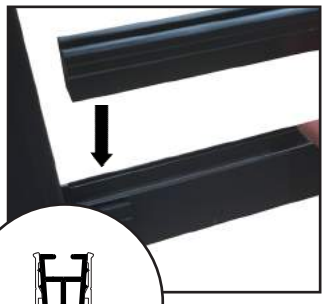
- Glass Vinyl Insert (URGG)
- Regal ideas Tempered Glass Panels (CTG)
- Leg Support (URLS)

Measure your top and bottom rail openings (between posts).

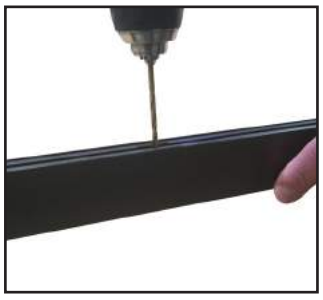
Cut your glass gaskets (URGG) to fit inside the top rail and inside the bottom rail.



Fit in your Glass Vinyl Insert (URGG) into the bottom rail.

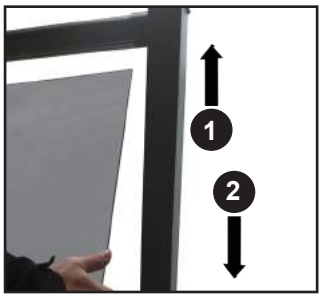


Fit in your Glass Vinyl insert (URGG) into your top rail.

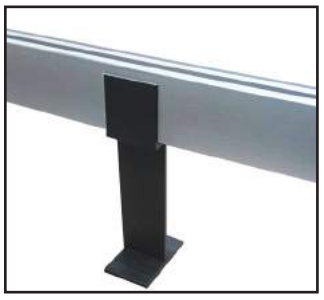


Drainage holes.

Drill 3/16" diameter weep holes through vinyl insert and bottom rail every 16″ – 24" to allow any water/moisture to escape during the various seasons.




Install glass by (1) first sliding the glass up into the top vinyl insert and then (2) down into the bottom vinyl insert.



Use bottom rail support legs in the center of all glass rail sections.

(See Instructions Page 2)