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Spectrum Glass System Installation Instructions

Atlantis Rail's Spectrum Glass System is an easy to install railing product. It utilizes surface mounted square posts (available in 36" and 42" heights) adapted with our glass panel connectors (flat) to accept 3/8" or 1" glass infill. The Spectrum System is offered in a standard black or metallic silver color option. Other colors are available. Ask your Sales Representative for details. Customers must source their own flat hardwood top rail (minimum of 2" x 4").



ATLANTIS RAIL PROVIDES THE POSTS AND GLASS CONNECTORS ONLY. ATLANTIS RAIL DOES NOT OFFER GLASS PANELS AS PART OF THE SPECTRUM GLASS SYSTEM.

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Warning



Note



Hints

Tools

Required & Recommended



Power Drill



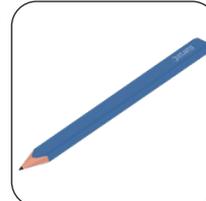
#2 Phillips Driver Bit



7/32" Drill Bit



1/2" Socket & Ratchet



Pencil



Safety Glasses



Work Gloves



Tape Measure



Carpenter's Square



7/16" Open Wrench



Vice Grips



Silicone Caulk



Level



4mm, 5/16" Allen Wrench

Tips for a Successful Installation

- Read the instructions completely before beginning the installation.
- Plan your railing project. Sketch your project with the actual measurements of your deck or balcony complete with post locations.
- Check carton(s) to determine part count is complete.
- Installation is best accomplished with two (2) people.
- Always wear personal protection equipment; safety glasses, work gloves, etc.



ATLANTIS RAIL SYSTEMS PROVIDES A VARIETY OF MOUNTING OPTIONS FOR POSTS AND RAILS USED IN OUR SYSTEMS. PRODUCTS OF THIS NATURE REQUIRE THAT MOUNTING SURFACES ARE CONSTRUCTED TO BE CONSIDERED STRUCTURAL PER BUILDING CODE DEFINITION FOR THE SURFACE MATERIAL USED. STRUCTURAL INTEGRITY AND BUILDING CODE COMPLIANCE OF MOUNTING SURFACES ARE THE RESPONSIBILITY OF THE END USER AND / OR INSTALLER. THE USE OF ANY OF OUR MOUNTING METHODS ARE AT THE OPTION AND DECISION OF THE END USER AND / OR INSTALLER AND SHOULD BE SELECTED TO MATCH THE STRUCTURAL MATERIAL USED TO CREATE THE MOUNTING SURFACE.



STORE YOUR ORDER INDOORS TO KEEP DRY!
Some items in your order have been shrink wrapped with a protective poly film. Avoid exposing these items to harsh weather and moisture to avoid damaging powder coated surfaces. When you're ready to install product, remove the protective shrink wrap before or immediately after installation.



ALWAYS REFER TO YOUR LOCAL BUILDING CODE OFFICIALS PRIOR TO INSTALLING ANY ATLANTIS RAIL SYSTEM TO ENSURE ALL CODE AND SAFETY REQUIREMENTS ARE MET. ATLANTIS RAIL SYSTEMS IS NOT RESPONSIBLE FOR IMPROPER OR NON-RECOMMENDED INSTALLATIONS

Glass Panel Connector Component

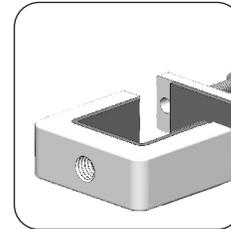


S0950-F010 Glass Panel Connector - Flat

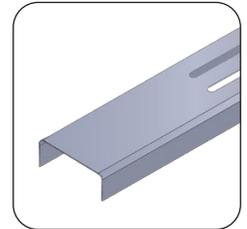
Additional Components



Wide Mounting Plate

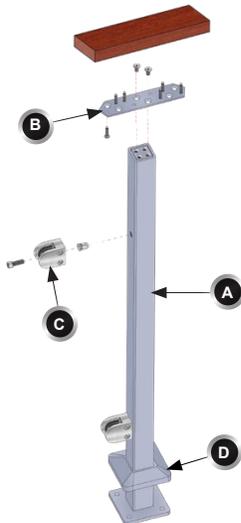


ADA Mounting Clamp



Reinforcing Channel

Surface Mount Post Options



Spectrum Surface Mount Glass End Post Kit Components

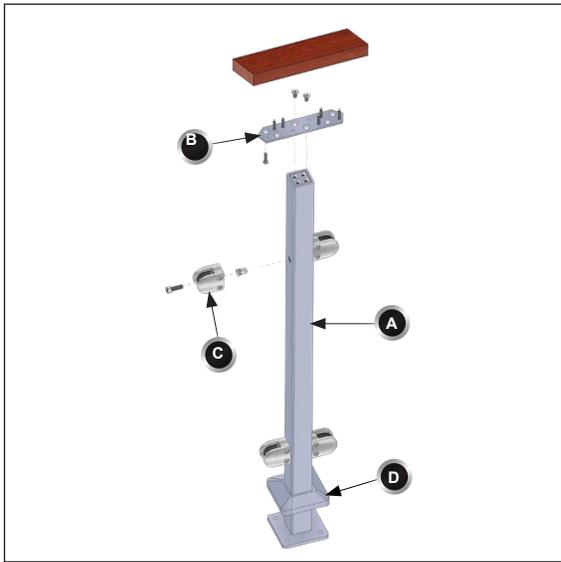
A. Spectrum Square End Post

B. Top Mounting Plate Assembly

C. Glass Panel Connector (Flat)

D. Base Cover

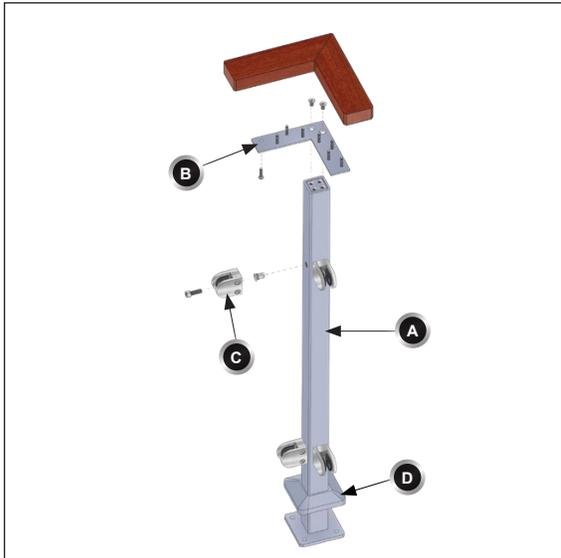
NOTE: Surface mounting fasteners & hardware sold separately.



Spectrum Surface Mount Glass Mid Post Kit Components

- A. Spectrum Square Mid Post
- B. Top Mounting Plate Assembly
- C. Glass Panel Connector (Flat)
- D. Base Cover

NOTE: Surface mounting fasteners & hardware sold separately.



Spectrum Surface Mount Glass Corner Post Kit Components

- A. Spectrum Square Corner Post
- B. Top Mounting Plate Assembly
- C. Glass Panel Connector (Flat)
- D. Base Cover

NOTE: Surface mounting fasteners & hardware sold separately.



START BY MARKING POST LOCATIONS USING REMOVABLE TAPE ON THE DECK SURFACE. INSTALL CORNER, MID AND END POSTS.



ALWAYS USE WORK GLOVES AND WEAR SAFETY GLASSES TO PROTECT YOUR HANDS AND EYES WHILE WORKING WITH CABLE. DO NOT OVER-TENSION.

Surface Mount Posts Preparation



PREPARE PROPER BLOCKING PER LOCAL BUILDING CODE TO ENSURE SAFE AND CODE COMPLIANT INSTALLATION.

Measure & Mark the Centerlines

Use a tape measure to find the centerline of your railing system. Measure from the edge of the deck to the center of the structure or blocking below (See Figure A). This is typically 3-1/2". It is important that all the fasteners are secured to the structure or appropriate blocking. With the centerline measured, carefully snap a chalk line around the perimeter of the deck. This will be your centerline throughout the project. Make sure that the center of all of your bases fall along this line.

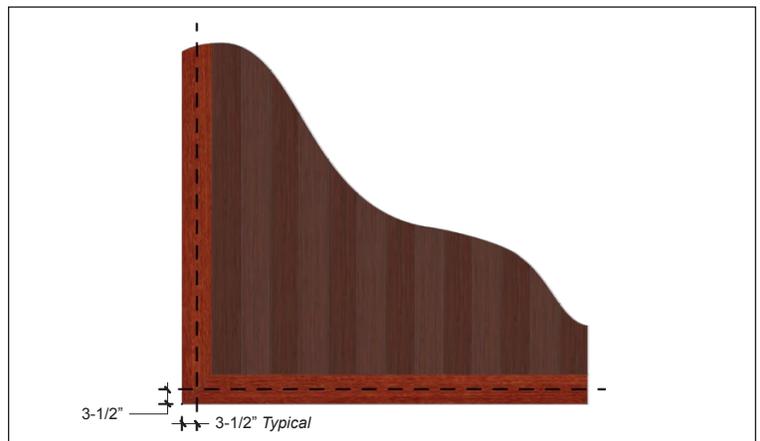


Figure A. Measure to the center of your structure or blocking and snap a chalk line to mark the centers. Do this around the perimeter of the deck.

Assemble the Corner Posts

Attach the corner mounting plate to each post (See *Figure B*), using the center hole pattern, with two (2) 1/4" flat head machine screws. Corners require one (1) post. Make sure that the glass panel connectors are running parallel with the long side of the plate on both sides.



Figure B. Attach the corner mounting plate to each corner post with two (2) 1/4" flat head machine screws.

Installing the Surface Mount Posts

Install the Corner & End Posts

Beginning with corner posts, place the bases along the centerline being careful to make sure the bases are properly oriented. Using the base as a template, mark the four (4) holes for the screws (See *Figure C*). Use a 7/32" drill bit to drill a pilot hole for the lag bolts. Take extra care to be sure the holes are drilled into joists or blocking.

With the holes pre-drilled, install the corner posts with the hex lag screws using a 1/2" socket and ratchet set. When installing the posts, constantly check for level. Once the posts are installed, apply silicone to the hex lag screws and secure the supplied hex lag screw caps to prevent moisture from getting to the hex lag screws (See *Figure D*). Slide the base cover onto the base **BEFORE** installing the glass panel connectors - flat (See *Figure E*). Check for level and adjust accordingly.

Repeat the steps above to install the end posts.

Install the Mid Posts

When you have the end and corner posts installed, measure the distance between the end and corner. Divide this measurement evenly to get the required number of sections. Mark the center locations for the mid post bases once again taking care that the base is located on the centerline and oriented properly. Follow the steps above to install the mid posts.

Repeat

When you have the end and corner posts installed, measure the distance between the end and corner. Divide this measurement evenly to get the required number of sections. Repeat the above steps to install the mid posts.

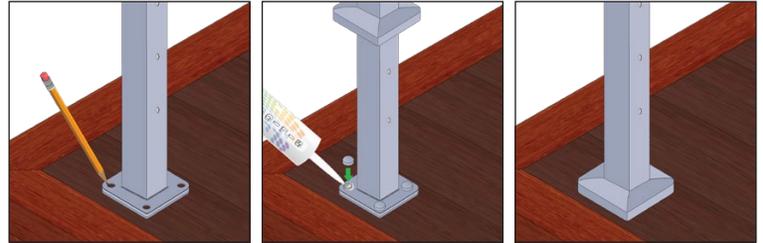


Figure C. (Left) Use the base as a template and mark the four (4) holes for the screws.

Figure D. (Center) Apply silicone to the hex lag screws once installed and secure the hex lag screw caps.

Figure E. (Right) Slide the base cover onto the base **BEFORE** installing the cable.



TO ENSURE CODE COMPLIANCE, ATLANTIS RAIL DOES NOT RECOMMEND EXCEEDING 4' (48") ON-CENTER BETWEEN CABLE SUPPORT POSTS. DO NOT EXCEED 48' BETWEEN TERMINATION HARDWARE.



IF INSTALLING CABLE STABILIZERS, PLEASE REFER TO THE CABLE STABILIZER INSTALLATION INSTRUCTIONS.

Installing the Top Rail

Install the Top Plates

Secure the top plates to each of the posts using two (2) 1/4" - 20 RH screws. For mid posts, use the hole pattern in the center of the plate (See Figure F). For end posts use the side hole patterns. Be sure to have the corner plates pre-assembled for ease of installation.

Install the Top Rail

Carefully measure and cut your top rail taking into account any mitering of joints you may need to do. Piece by piece; lay your top rail on the center of the mounting plate being sure that the top rail covers the top plate in its entirety. With the top rail in place, using a 7/32" drill bit, pre-drill for the wood screws that attach the top rail to the mounting plate. Use up to six (6) #10 pan head screws (supplied) to fasten the wooden top rail to the Spectrum posts (See Figure G).

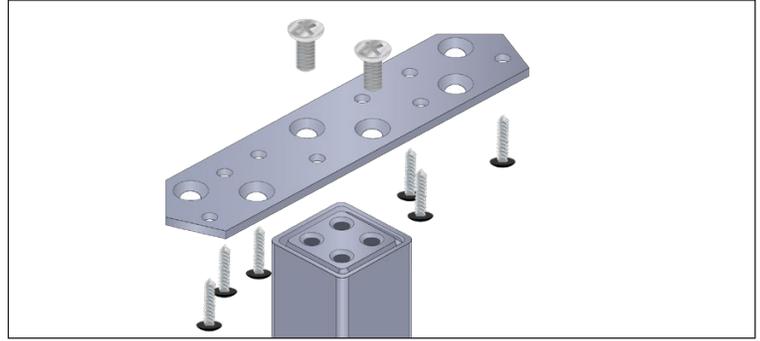


Figure F. For mid posts, use the hole pattern in the center of the plate and secure using two (2) 1/4"-20 RH screws.

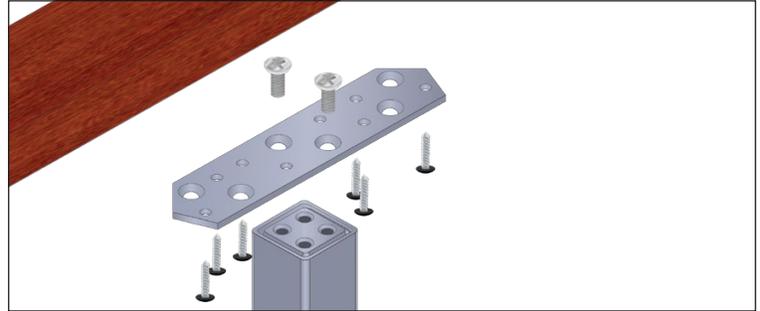


Figure G. Secure wooden top rail using up to six (6) #10 pan head screws.

Installing the Glass Infill

Install the Glass Panel Connector - Flat

With a 4mm Allen wrench loosen the screws in the glass panel connector(s) and remove the cover plate(s). With a 5/16" Allen wrench place the 5/16" socket cap screw through the base of the glass panel connector, insert into the rivet nut that is installed in the post and tighten down (See Figure H). Once all the glass panel connectors are installed it's time to install the glass panels.

Install the Glass Panel

With a partner insert the glass panel into the Glass Panel Connectors and ensure it is snug against the lip of the connectors (See Figure I). Each connector comes with rubber pads allowing glass thickness of 3/8" to 1/2" thick.

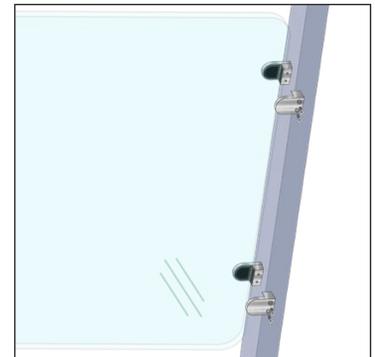
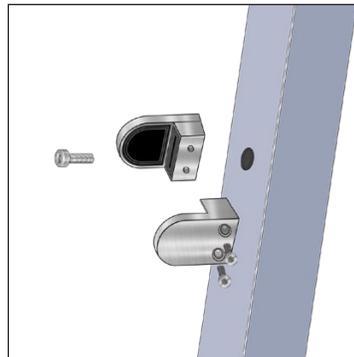


Figure H. (LEFT) Attach the glass panel connectors (flat) to the posts.

Figure I. (RIGHT) Place the glass up against the glass panel connectors and install cover plates.

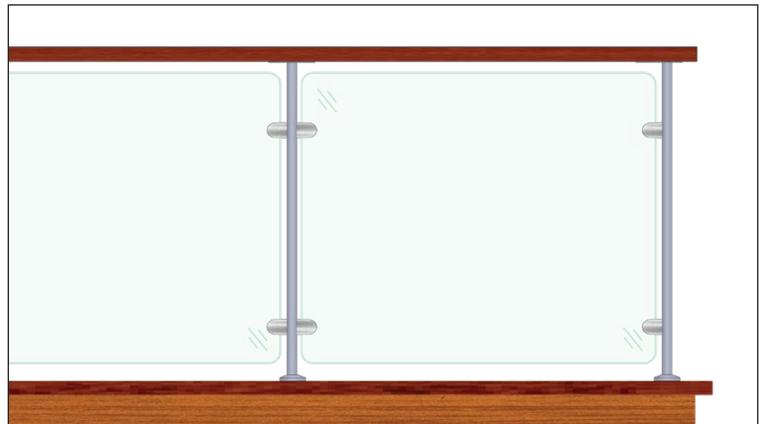


THE GLASS PANEL SITS 3" OFF THE DECK SURFACE. CUT A 3" HIGH BLOCK OF WOOD SO THAT YOU CAN SUPPORT THE BOTTOM EDGE OF THE GLASS PANEL ON WHILE FASTENING THE GLASS CONNECTOR COVERS.



METAL PINS SHEATHED IN RUBBER ARE INCLUDED WITH EACH CONNECTOR IF YOU DESIRE TO INSTALL THEM. THE METAL PINS ACT AS A STRUCTURAL FEATURE LOCKING THE GLASS PANEL IN PLACE. THE GLASS MUST BE ORDERED WITH HOLES ALLOWING THE PINS TO PASS THROUGH.

With a 4mm Allen wrench tighten the screws in the glass panel connector(s).



Additional Components

Wide Mounting Plate - S0904-XX53

The Wide Mounting Plate (part # S0904-XX53) is twice the width of the standard mounting plate and is used in applications where a wider top rail is desired.

Secure the plate to the post using two (2) 1/4" -20 RH screws. For mid posts, use the hole pattern in the center of the plate (See *Figure J*). For end posts use the side hole patterns.

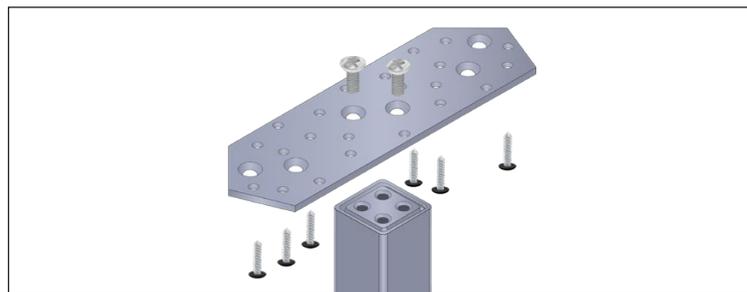


Figure J. Use when a wider top rail is desired. For mid posts, use the hole pattern in the center of the plate and secure using two (2) 1/4"-20 RH screws.

ADA Mounting Clamp - S0904-XX60

The ADA Mounting Clamp (part #r S0904-XX60) fits snugly on the Spectrum post. To attach, insert the U-shape piece of the clamp onto the post making sure the pads stay intact (See *Figure K*).



BEFORE INSERTING THE U-SHAPE PIECE ONTO THE POST, MOISTEN THE PADS. THIS WILL ENABLE IT TO GLIDE EASIER OVER THE POST WHILE KEEPING THE PADS IN PLACE.

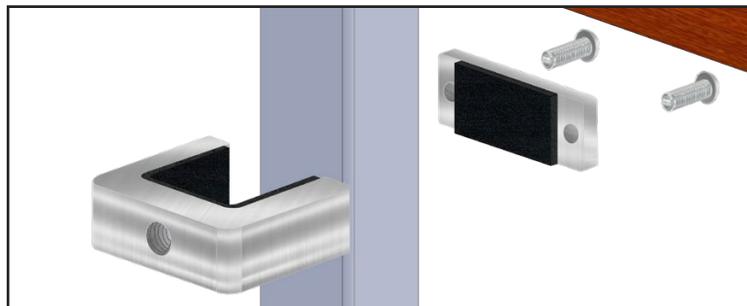


Figure K. Insert the u-shape piece onto the post making sure the pads stay intact. Attach the back piece and tighten screws alternately until fully tightened.

Attach the back piece and insert the screws. Using a 5/32" (or 4mm) Allen wrench, tighten the screws alternately a half turn at a time until the screws are fully tightened.

Reinforcing Channel - S0904-XX54

This channel (part # S0904-XX54) is used in applications where the handrail needs additional reinforcement. The 36" surface mount Spectrum post requires a spacing block (part # S0904-XX58) for installation. If a spacing block is required (See *Figure L*), attach it to the post before attaching the top mounting plate.

The reinforcing channel is 48" in length and is ideal for 4' post spacing. It can be cut to size if shorter spans are needed. Place the channel in the center of the post on top of the top mounting plate (See *Figure L*). Place the customer supplied top rail on top of the reinforcing channel. Use the supplied #10 wood screws to attach the channel and top mounting plate to the top rail (See *Figure N*). Using two (2) screws at either end of all exposed slots, fasten the channel to the top rail. Also, be sure to fasten through the top mounting plate where slots offer exposed top rail access.

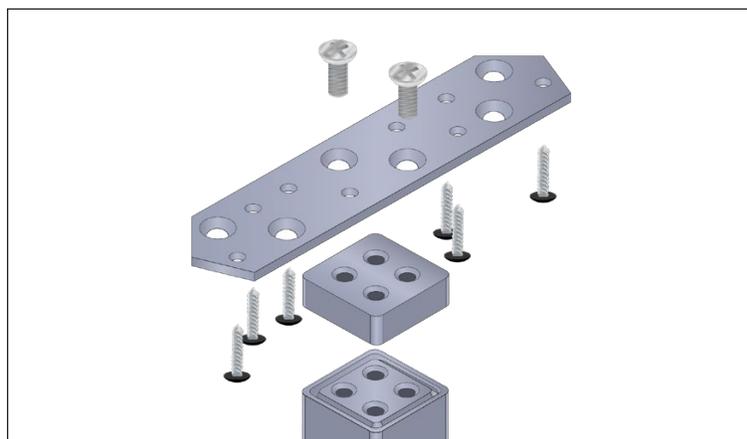


Figure L. Attach the spacing block to the post before attaching the top mounting plate.

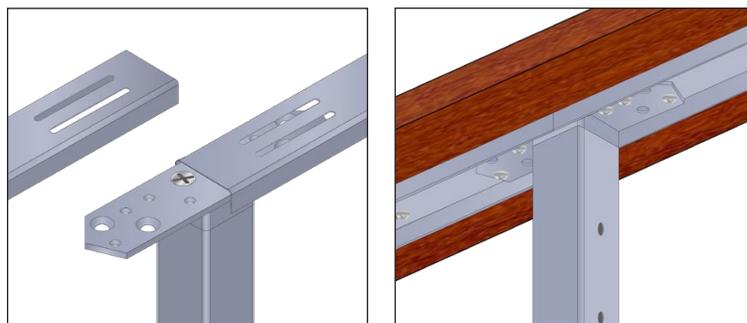


Figure M. (LEFT) Place the reinforcing channel in the center of the post on the top of the mounting plate.

Figure N. (RIGHT) Use the supplied fasteners to attach the channel and top mounting plate to the top rail.

Spectrum Glass System Specifications

The Spectrum Glass System uses stainless steel surface mounted square posts with our glass panel connectors (flat) to accept 3/8" or 1/2" tempered glass infill. Customers must provide their own hard wood top rail and glass infill. Posts should be surface mounted securely enough to resist detachment.

Straight Sections

The Spectrum System is offered in post heights of 36" or 42" for straight sections. It consists of square posts fascia mounted, customer supplied top rail and glass infill.



RAILING HEIGHTS ARE OFFERED IN THESE DIMENSIONS DUE TO NATIONWIDE BUILDING CODES. HOWEVER, ATLANTIS RAIL CAN SUPPLY CUSTOM HEIGHTS/LENGTHS UPON REQUEST.

Between Post Lengths

Atlantis Rail recommends staying within 4' - 5' (Max.) section lengths to maintain structural integrity.

Railing Finish

The Spectrum System is offered in standard and special order colors to fit any application.

Infill

The glass panel connectors (flat) accept 3/8" or 1/2" tempered glass infill. Again customers must provide their own glass infill.

Spectrum Glass Post Kit Heights

Part Number	Post Description	Actual Post Height	Rendered Rail Height	Height From Surface
S0905-XX36-GE*	36" Surface Mount End Post Kit	34.50"	36"	34.50"
S0905-XX36-GM*	36" Surface Mount Mid Post Kit	34.50"	36"	34.50"
S0905-XX36-GC*	36" Surface Mount Corner Post Kit	34.50"	36"	34.50"
S0905-XX42-GE*	42" Surface Mount End Post Kit	40.50"	42"	40.50"
S0905-XX42-GM*	42" Surface Mount Mid Post Kit	40.50"	42"	40.50"
S0905-XX42-GC*	42" Surface Mount Corner Post Kit	40.50"	42"	40.50"

Spectrum Glass System Product Specifications

Components

Product	Description	Dimensions	Fasteners	Notes
S0905-XX36-GE*	36" Surface Mount End Post Kit	36" 316 stainless steel	Hex Lag Screws	Fasteners not included
S0905-XX36-GM*	36" Surface Mount Mid Post Kit	36" 316 stainless steel	Hex Lag Screws	Fasteners not included
S0905-XX36-GC*	36" Surface Mount Corner Post Kit	36" 316 stainless steel	Hex Lag Screws	Fasteners not included
S0905-XX42-GE*	42" Surface Mount End Post Kit	42" 316 stainless steel	Hex Lag Screws	Fasteners not included
S0905-XX42-GM*	42" Surface Mount Mid Post Kit	42" 316 stainless steel	Hex Lag Screws	Fasteners not included
S0905-XX42-GC*	42" Surface Mount Corner Post Kit	42" 316 stainless steel	Hex Lag Screws	Fasteners not included
S0950-F010	Glass Panel Connector (Flat)	3/8" to 1/2" 316 stainless steel	--	Neoprene Pads

* "XX" in the part number is the color designation. Replace with "BK" for black, "MT" for metallic silver or "SP" for one of the special colors.

