



Atlantis Rail's RailEasy™ Spectrum is an easy to use, universal cable guard railing product. It utilizes fascia mounted square posts and a variety of cable infill options including RailEasy™ studs, HandiSwage fittings or traditional machine swage studs. The RailEasy™ Spectrum is designed for use with customer supplied wood top railing. Universal posts are used for corners, ends and mids allowing for a truly off the shelf guard rail solution. The RailEasy™ Spectrum is available in a variety of colors.

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TOOLS

Required

- Power Drill
- #2 Phillips Driver Bit
- 7/32" Drill Bit
- 1/8" Drill Bit
- 1/2" Socket & Ratchet
- Pencil

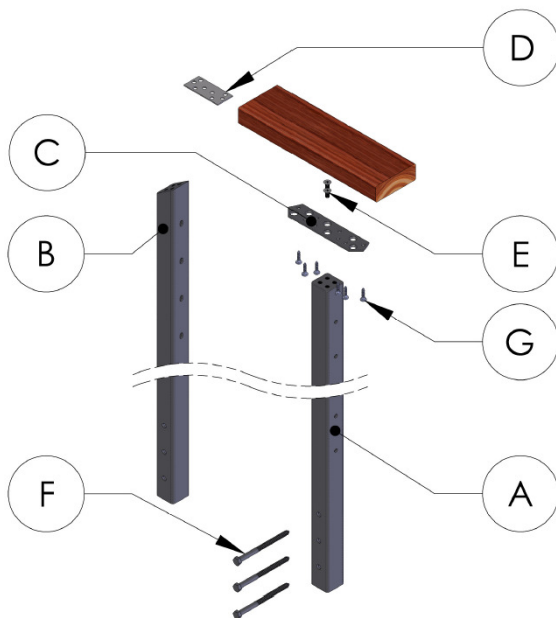
Recommended

- Level
- Tape Measure
- Carpenter's Square
- Chalk Line
- Rubber Mallet
- Coping Saw

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RAILEASY™ SPECTRUM COMPONENTS



Description

A	S0904-0036, 0042	RailEasy™ Spectrum Straight Post (36", 42")
B	S0904-S036, S042	RailEasy™ Spectrum Stair Post
C	P0904-0050	RailEasy™ Spectrum Standard Plate
D	S0904-0051	RailEasy™ Spectrum Mending Plate
E	S0910-0713	1/4 -20 x 1/2" Machine Screw
F	S0335-08100	5/16" Mounting Lag (Sold Separately)
G	S0913-0625	#10 Wood Screw

INFILL OPTIONS

The RailEasy™ Spectrum rail allows for a variety of cable infill options, from RailEasy™ hardware, to HandiSwage, to standard swage stud fittings. You can find installation instructions specific to your cable railing infill choice at www.atlantisrail.com or by asking your Atlantis Rail sales representative for more information.



PREPARATION

ASSEMBLE THE CORNER BRACKETS

Start by assembling the top mounting plates in the necessary corner configuration. Use the mending plate and four (4) 1/4" screws to rigidly hold the assembly. The top mounting plates assemble into 90° or 135° corner brackets by using different edges of the corner bracket and a different hole pattern on the mending plate. (See *Figure A*)

ASSEMBLE THE CORNER POSTS

With the corner brackets assembled, attach a post to each mounting plate, using the center hole pattern, with two (2) 1/4" screws. Make sure that the post holes for the cable are running parallel with the long side of the plate on both sides. (See *Figure B*)

MEASURE THE HEIGHT

To begin, measure the thickness of your top rail and add 6-1/8". This is the distance below the deck surface where the bottom of the post will sit. As an example, a 1-1/2" thick top rail will require the post to sit 7-5/8" (1-1/2" + 6-1/8") below the deck surface. (See *Figure C*)

BLOCK OUT OR NOTCH THE DECK

You'll need to account for any overhang of trim your deck may have. This can be accomplished one of two ways, by either notching out the trim piece with a coping saw or similar, or by blocking out underneath the overhang. Use the completed corner assembly and mark on either side of each post and cut or block accordingly.

MARK THE CENTERS

Using the completed corner assembly as a guide, mark the centers of the corner posts on either side of the fascia. Use a carpenter's square to draw a vertical line on the fascia board at the center mark. (See *Figure D*). Measure down to the height as determined in the previous step, in our example, 7-5/8" and draw a mark. Measure from the vertical line a maximum of 48" (4 feet) to the center of the next post. Continue in this fashion until you have found the center lines for all of your posts. With the centerlines all drawn, hold the post on the center line at the height mark you just made, and carefully mark the centers of the three mounting holes. (See *Figure E*). Continue down the line, marking the centers of all the mounting holes for each post.

INSTALL THE POSTS

PRE-DRILL THE FASCIA

Using a 7/32" drill bit, pre-drill the fascia at the marks made in the previous step to a depth of approximately 2-1/2", once again, beginning with the corner posts. Take extra care to be sure the holes are drilled straight into the fascia.

INSTALL THE LAG BOLTS

With the holes drilled for the fascia, install the post with the lag bolts using a 1/2" socket and ratchet set. When installing the post, constantly check for level, both side to side and front to back. Over tightening the lag bolts may cause the post to *pitch* forward (See *Figure F*). If this happens and the post is pulled out of level, simply loosen the offending bolt slightly until the post comes back to square and shim as required to keep the post plumb.

REPEAT

Repeat the above steps for each post always beginning from an end or a corner. When you have the ends and corners in place, space the mid-posts equally apart being sure not to exceed 48" on center. Continue in this fashion until all posts have been installed.

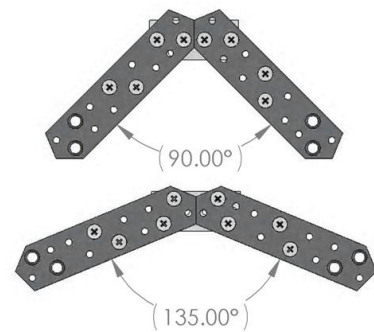


Figure A. The top mounting plates can be assembled into 90° and 135° corner brackets.

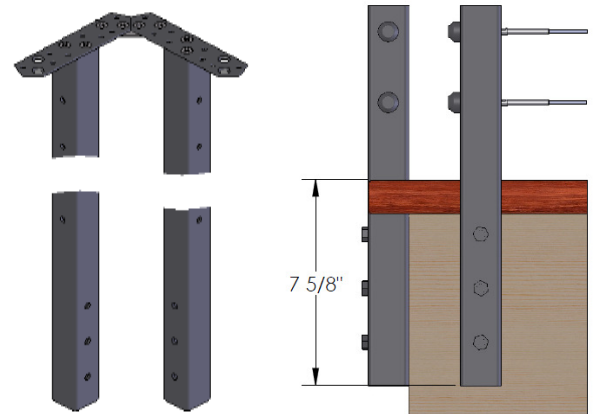


Figure B (Left). Attach a post to each plate using the center hole pattern
Figure C (Right). Determine the length below the surface of the deck by adding 6-1/8" to the thickness of the top rail

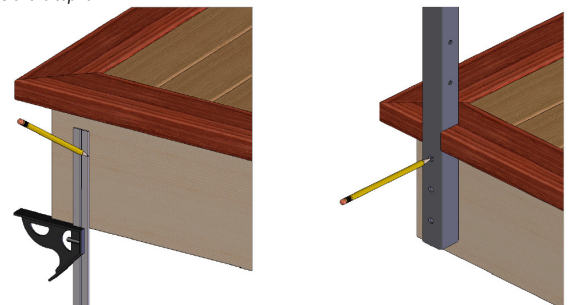


Figure D (Left). Use a carpenter's square to draw a vertical line at the center mark of the post.
Figure E (Right). With the post held in place, carefully mark the centers of the mounting holes.

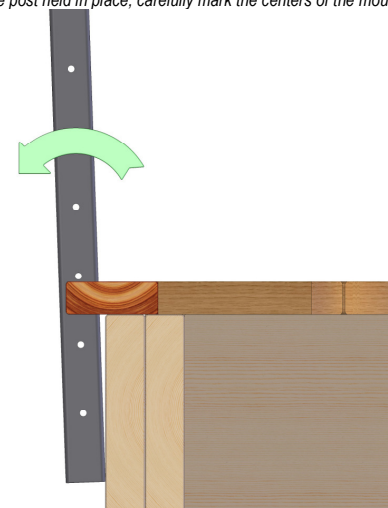


Figure F. Check the post for level as you tighten the lag bolts. Adjust the tightness of the bolts as necessary and shim as required to ensure that the post is level front to back and side to side.

INSTALL THE TOP RAIL

INSTALL THE TOP PLATES

Secure the top plates to each of the posts using (2) 1/4 -20 RH screws. For mid-posts, use the hole pattern in the center of the plate (See *Figure G*). For End's 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 (6) #10 pan head screws to fasten the wooden top rail (not supplied) to the RailEasy™ Spectrum posts (See *Figure G*).

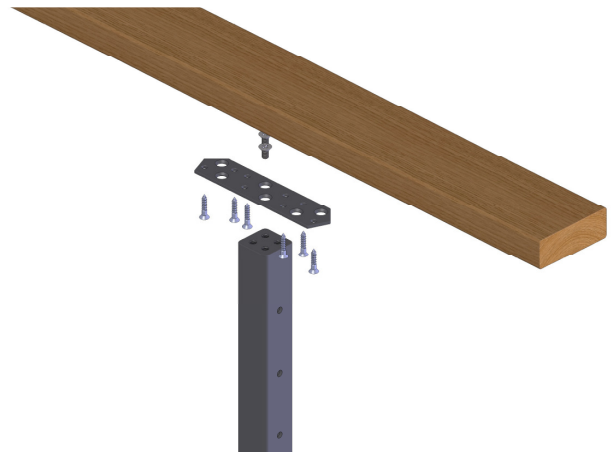


Figure G. Fasten the top plate to the post using (2) 1/4 -20 RH screws.

INSTALL THE INFILL

With the frame securely built according to manufacturer's installation instructions, it's time to install the cable infill. The RailEasy™ Spectrum is designed to utilize a number of cable infill options. Please consult the appropriate installation instructions. **Make sure the guard frame is completed in its entirety prior to tensioning cables!** The posts of the RailEasy™ Spectrum will deflect under load if the guard frame isn't fully assembled.

Warning: Always wear gloves and protective eyewear when working with cable. Follow the manufacturer's cable installation instructions at all times.

RAILEASY™ SPECTRUM PRODUCT SPECIFICATIONS

Atlantis Rail's RailEasy™ Spectrum system uses 1-1/2" square fascia mounted posts and most of Atlantis Rail's cable infill systems. Deck frame should be capable of receiving the mounting screws and withstanding deflection under tension. All components in the RailEasy™ Spectrum system are made of grade 316 stainless steel. Working load limit for all hand swage terminals is 60-70% of cable strength.

COMPONENTS

	Material	Finish	Dimensions	Notes
Post	316 SS	Powder Coated	1-1/2" Sq. x 42" or 48"	Available in multiple colors
Rail	--	--	--	Top rail not supplied
Cable	316 SS	Polished	1/8" 1x19 316 stainless steel cable	420 lb. WLL
Tensioners	316 SS	Polished	See Catalog	HandiSwage or RailEasy™ studs
Fittings	316SS	Powder Coated	6" x 1-1/2" x 1/8"	--
Fasteners	316 SS	Polished	--	--