SunRail™ Cable Railing Installation Instructions

The SunRail™ System combines the modern look of stainless steel cable and tensioners with the low maintenance quality of highly polished or brushed tubing.

The following guide will take you step-by-step through the process of installing your SunRail™ System. Along the way, we’ll offer you tips and tricks to help you get your railing installed today and ready for tomorrow.

### Tools

#### Required & Recommended

- **Power Drill**
- **1/4” Drill Bit** (for bases)
- **Tape Measure**
- **5.5 mm Allen Wrench**
- **Chalk Line**
- **Loctite® 326**
- **Gloves**
- **Safety Glasses**
- **3/8", 5/16 & 7/16” Open Wrenches**
- **Carpenter’s Square**
- **Level**
- **Cable Cutters**
- **#4 Phillips Driver Bit**
- **Ratchet Strap**
- **Grommet Install Tool**
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.
- Use care not to over-torque the screws. Pre-drilling is recommended.

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.

RailEasy™ Components

- S0982-0004 RailEasy™ Tensioner Round 5/32”
- S0982-S004 RailEasy™ Swivel End Round 5/32”

Additional Components

- Stabilizer and SunRail™ Cable Grommets
- Concrete Mounting Base
- Fascia Mount Bracket
- Micro Star™ Transformers
- Micro Star™ LED Light*

* Micro Star™ LED lights can be integrated into the top rail for illumination.
SunRail™ Posts

The SunRail™ standard post kits contain the post and mounting base. Fasteners to mount the base to the decking surface are sold separately. Speak with your Atlantis Rail Sales Representative about the various mounting options. The following section will show you how to install the posts on straight sections of your deck.

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.

Install the Post Bases

Begin with the end posts and corner posts. Place the base along the centerline being careful to make sure the base is properly oriented. Using the base as a template (See Figure B), mark the 4 holes for the screws. Use a 1/4” drill bit to drill a pilot hole for the base screws. It is important to drill a proper pilot hole as this will help prevent the base screws from stripping. Use a #4 screwdriver or driver bit (not included) to fasten the base to the deck (See Figure C). Simply slide the end and corner posts onto the base. Check for level.

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.

Figure B. (LEFT) Using the base as a template, mark the 4 holes for the screws.

Figure C. (RIGHT) Fasten each base to the deck with four (4) 5/16” x 3” lag screws.

IF USING FASCIA MOUNT BRACKETS (PART # S0950-0002) OR CONCRETE BASES (PART # S0950-0006), PLEASE REFER TO SEPARATE INSTALLATION INSTRUCTIONS INCLUDED IN YOUR PACKET.

When reading your assembly drawing, always remember the top rail in the projection view is always facing the plan view.
Straight Section - Installing the Rails

Dry-Fit Railing Section
Build one (1) section at a time. Assemble the rail frame to be sure that everything fits into place properly. Using a level, be sure that the posts are standing vertical and rails are sitting level (shim bases as needed). This can affect placement of the posts, so before marking or drilling any holes for mounting, make sure that the section is plumb (See Figure D).

Assemble the Frame
When you are comfortable that the dry-fit sections are correct, lift up each post and apply a thin bead of Loctite brand adhesive to the base (See Figure E). Place the post back on the base working the adhesive all around spreading it evenly. Wipe off any excess adhesive immediately. Continue around the deck with the adhesive securing the posts to the bases. The Loctite brand adhesive will keep the posts from pulling up or rotating.

Always use work gloves and wear safety glasses to protect your hands and eyes.

Loctite 326 brand adhesive creates a strong bond. Be sure you have the right components before applying the adhesive.

ATLANTIS RAIL RECOMMENDS USING LOCTITE 326 ON THE BASES, TOP RAILS AND FITTINGS. THE ADHESIVE WILL KEEP POSTS AND RAILS FROM PULLING UP AND ROTATING. USE A DAMP CLOTH TO CLEAN UP EXCESS RESIDUE IMMEDIATELY.

Place Lower Rail
Before beginning, make sure you have time to complete each section you start. Begin by removing the rail straight connector from the dovetail on the post. Apply a thin bead of Loctite 326 adhesive to each dovetail connector (See Figure F) and work it around, spreading it evenly on the fitting. Do this for both ends of the tube. From the top, place the lower rail down onto the dovetails and replace the machine screws using a 5.5 mm Allen wrench (See Figure G). Do not leave adhesive to set until rails and infill are installed.

Figure D. (LEFT) Dry-fit each railing section to ensure that everything fits properly. Use a level to make sure that the section is plumb.

Figure E. (RIGHT) Apply a thin bead of Loctite 326 brand adhesive to the bases when you are comfortable that the dry-fit sections are correct.

Figure F. (Left) Apply a thin bead of Loctite 326 adhesive to each dovetail connector.

Figure G. (Right) From the top, place the lower rail down onto the dovetails and replace the machine screws using a 5.5 mm Allen wrench.
Install the Top Rail
Place top rail into the posts (See Figure H). Slowly lift the elbows from the post enough to apply a small amount of adhesive. Do the same for either end of the top rail. Compress the top and bottom rails together using a ratchet buckle to ensure the proper fit. Leave assembled for adhesive to set.

RailEasy™ Round Tensioner & Swivel End Installation

RailEasy™ Round Tensioners (C0982-0004)
The tensioner (See Figure I) is the primary cable railing tensioning/fastening device. The compression fitting allows for installation and tensioning with simple hand tools. Also, it has a slotted base to achieve angles up to 45 degrees.

RailEasy™ Round Swivel Ends (C0982-S004)
The swivel end (See Figure J) is used for cable railing applications. This swivel end is used in conjunction with a RailEasy™ Tensioner in order to tension cable. Also, it has a slotted base to achieve angles up to 45 degrees.

Straight Section - Installing the Cable

Atlantis Rail offers cable cutters (part # C0989-00HD) to aid in the cutting of 5/32” cable. It is important that you use sharp tools to cut the cable, as a dull tool will splay it. Ask your Atlantis Rail Sales Representative for more information.

RailEasy™ Tensioner (C0982-0004)

Measure & Run the Cable
With the tensioners installed (See Figure K), begin by extending the threaded stud outward a minimum of 3/4” for the first 20 feet plus 1/4” for each additional 10 feet. Insert the cable into the receiver cone, push and twist the cable opposite the lay of the wire strands. The cable should slide into the receiver cone until approximately 3/16” past the bottom of the wedge (See Figure L). Fully tighten the receiver cone onto the threaded stud using 7/16” and 3/8”
open wrenches. Upon doing this, the wedge will crimp down on the cable and hold it in place. With the cable installed in one tensioner, pull the cable to the opposite tensioner. Pull the cable tight to the tensioner and cut it (See Figure M). Using the first run as a guide, cut the remaining runs to the same length. This will ensure uniformity among the tensioners. Thread the cable through each mid post and install the cable into the opposite tensioner using the same process as before.

**RailEasy™ Swivel End (C0982-S004)**

The swivel end must be used in conjunction with a RailEasy™ Tensioner in order to tension the cable. Follow the same process as above to install and cut the cable (See Figure N).

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**Straight Section - Tensioning the Cable**

> BEFORE TENSIONING ANY OF THE CABLES, IT IS IMPORTANT TO BE SURE THAT THE FRAME FOR THE INFILL IS COMPLETED.

Make sure the posts are installed securely and in accordance with the manufacturers’ recommended installation procedures. Install all top and intermediate rails. The posts will deflect beyond allowable limits if you attempt to tension the cables on an incomplete guard frame.

**RailEasy™ Tensioner (C0982-0004)**

**Tension the Center Cable**

Before tensioning with tools, hold the threaded stud firm and rotate the tensioner body by hand until all cables are snug.

Beginning with the center run of cable, hold the threaded stud firm using a 3/8" wrench. Using a 5/16" open wrench, rotate the tensioner body to tension the cable. Turn the body three or four full rotations until cable is snug. Don’t worry if this cable moves a little, we will come back around to it later. Tension cable equally from both ends of each cable span. Tighten Lock Nut to secure tension.

**Tension the Remaining Cables**

Alternate tensioning the cables from center, working above and below the center cable as if tightening the lug nuts on a tire (See Figure O). Rotate the body three or four full rotations or until cable is snug. You will notice as you tension, the cables surrounding it will slacken. When this begins happening, stop tensioning and move onto the next cable.

**Make Final Adjustments**

Go back to the center cable and re-tighten the cables until all are tight and relatively equal in tension. You may find that you need to do this three or four times getting down to even a quarter turn of the tensioner body each time. Tension from
both sides when necessary. Add “Non-Acidic” Silicone Sealant to open tip of Receiver Cone in harsh environments.

**RailEasy™ Swivel End (C0982-S004)**

If using a swivel end, the opposite end of the cable assembly requires a RailEasy™ tensioning device. The swivel end should be installed in the post and have cable installed in it. Follow the tensioning directions for RailEasy™ Tensioner to tension the other side of the swivel end cable run.

**Clean and Wipe Railings**

Finish by wiping down railings with warm water and a clean rag. It is a good idea to apply a protective coat of finishing compound. Atlantis Rail offers cleaning kits and rail care products. Ask your sales rep for more information.

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**Stair & Ramp Section - Installing the Posts**

The following section will show you how to install the posts on stairs and ramps of your deck.

**Install the Post Bases**

Depending on the configuration of the stairs install either the Rail Mounting Base (part # S0950-0001 - See Figure P) or the Rail Adjustable Base (part # S0950-0003 - See Figure Q). Use a 1/4” drill bit to drill a pilot hole for the base screws. It is important to drill a proper pilot hole as this will help prevent the base screws from stripping. Use a #4 screwdriver or driver bit (not included) to fasten the base to the deck. Simply slide the end and corner posts onto the base. Check for level.

**IF USING FASCIA MOUNT BRACKETS (PART # S0950-0002) OR CONCRETE MOUNTING BASES (PART # S0950-0006), PLEASE REFER TO SEPARATE INSTALLATION INSTRUCTIONS INCLUDED IN YOUR PACKET.**

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**Stair & Ramp Section - Installing the Rails**

**Dry Fit the Frame**

Beginning with any posts you have installed for the stair and ramp sections, begin dry-fitting the stair sections (See Figure R). This again is to ensure that all components of the railing will fit together properly without forcing. Locate the center of the bases. You will find the dimensions to the center of the bases on your drawing. Use these dimensions for the initial fit. Adjust as necessary continually checking for plumb. If the drawing is followed correctly, the top handrail will be parallel with the slope of the stairs and between 34” - 38” in height (measured vertically directly above the nosing of the stair).

**Assemble the Frame**

When you are comfortable that the dry-fit sections are correct, lift up each post and apply a thin bead of Loctite brand
adhesive to the base (See Figure S). Place the post back on the base working the adhesive all around spreading it evenly. Wipe off any excess adhesive immediately. Continue around the deck with the adhesive securing the posts to the bases. The Loctite brand adhesive will keep the posts from pulling up or rotating.

**LOCTITE 326 BRAND ADHESIVE CREATES A STRONG BOND. BE SURE YOU HAVE THE RIGHT COMPONENTS BEFORE APPLYING THE ADHESIVE.**

**ATLANTIS RAIL RECOMMENDS USING LOCTITE 326 ON THE BASES, TOP RAILS AND FITTINGS. THE ADHESIVE WILL KEEP POSTS AND RAILS FROM PULLING UP AND ROTATING. USE A DAMP CLOTH TO CLEAN UP EXCESS RESIDUE IMMEDIATELY.**

**Place Lower Rail**
Before beginning, make sure you have time to complete each section you start. Begin by removing the Rail Adjustable Joint on the post. Apply a thin bead of Loctite 326 adhesive to connector (See Figure T) and work it around, spreading it evenly on the fitting. Do this for both ends of the tube. From the top, place the lower rail down onto the dovetails and replace the machine screws using a 5.5 mm Allen wrench (See Figure U). Do not leave adhesive to set until rails and infill are installed.

**Install Top Rail**
Put the appropriate adjustable fittings on the top rail and rotate downward (See Figure V). Apply adhesive to these connections. Apply adhesive to the top rail and work it around evenly. Compress the top and bottom rails together using a ratchet buckle to ensure the proper fit. Leave assembled for adhesive to cure.

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**Stair & Ramp Section - Installing the Cable**

**RailEasy™ Tensioner (C0982-0004)**

**Measure & Run the Cable**
With the tensioners installed (See Figure W), begin by extending the threaded stud outward a minimum of 3/4” for the first 20 feet plus 1/4” for each additional 10 feet. To insert the cable into the receiver cone, push and twist the cable opposite the lay of the wire strands. The cable should slide into the receiver cone until approximately 3/16” past the

**Figure W. Exploded view of the RailEasy™ Tensioner for easy identification of each component.**
bottom of the wedge (See Figure X). Fully tighten the receiver cone onto the threaded stud using 7/16” and 3/8” open wrenches. Upon doing this, the wedge will crimp down on the cable and hold it in place. With the cable installed in one tensioner, pull the cable to the opposite tensioner. Pull the cable tight to the tensioner and cut it (See Figure Y). Using the first run as a guide, cut the remaining runs to the same length. This will ensure uniformity among the tensioners. Thread the cable through each mid post and install the cable into the opposite tensioner using the same process as before.

![Figure X. Cutaway view of the RailEasy™ Tensioner](image)

![Figure Y. Cut the cable at the hex flats on the threaded stud.](image)

**RailEasy™ Swivel End (C0982-S004)**

The swivel end must be used in conjunction with a RailEasy™ Tensioner in order to tension cable. Follow the same process as above to cut and install the cable (See Figure Z).

![Figure Z. Cut the cable at the hex flats on the threaded stud.](image)

**Stair & Ramp Section - Tensioning the Cable**

**BEFORE TENSIONING ANY OF THE CABLES, IT IS IMPORTANT TO BE SURE THAT THE FRAME FOR THE INFILL IS COMPLETED.**

Make sure the posts are installed securely and in accordance with the manufacturers’ recommended installation procedures. Install all top and intermediate rails. The posts will deflect beyond allowable limits if you attempt to tension the cables on an incomplete guard frame.

**RailEasy™ Tensioner (C0982-0004)**

**Tension the Center Cable**

Before tensioning with tools, hold the threaded stud firm and rotate the tensioner body by hand until all cables are snug.

Beginning with the center run of cable, hold the threaded stud firm using a 3/8” wrench. Using a 5/16” open wrench, rotate the tensioner body to tension the cable (See Figure AA). Turn the body three or four full rotations until cable is snug. Don’t worry if this cable moves a little, we will come back around to it later. Tension cable equally from both ends of each cable span. Tighten Lock Nut to secure tension.

![Figure AA. Hold the tensioner terminal still with a 3/8” wrench and using a 5/16” open wrench, rotate tensioner body to tension.](image)

**ALWAYS USE WORK GLOVES AND WEAR SAFETY GLASSES TO PROTECT YOUR HANDS AND EYES WHILE WORKING WITH CABLE. DO NOT OVER-TENSION.**
**Tension the Remaining Cables**
Alternate tensioning the cables from center, working above and below the center cable as if tightening the lug nuts on a tire (See Figure AB). Rotate the body three or four full rotations or until cable is snug. You will notice as you tension, the cables surrounding it will slacken. When this begins happening, stop tensioning and move onto the next cable.

**Make Final Adjustments**
Go back to the center cable and re-tighten the cables until all are tight and relatively equal in tension. You may find that you need to do this three or four times getting down to even a quarter turn of the tensioner body each time. Tension from both sides when necessary. Add “Non-Acidic” Silicone Sealant to open tip of Receiver Cone in harsh environments.

**RailEasy™ Swivel End (C0982-S004)**
If using a swivel end, the opposite end of the cable assembly requires a RailEasy™ tensioning device. The swivel end should be installed in the post and have cable installed in it. Follow the tensioning directions for RailEasy™ Tensioner to tension the other side of the swivel end cable run.

**Clean and Wipe Railings**
Finish by wiping down railings with warm water and a clean rag. It is a good idea to apply a protective coat of finishing compound. Atlantis Rail offers cleaning kits and rail care products. Ask your sales rep for more information.

### Installing Cable Grommets

Utilizing the grommet install tool (part # E0916-1000) makes installing cable grommets easy.

**THE GROMMET INSTALL TOOL (PART # E0916-1000) ACCOMMODATES BOTH 1/8” AND 5/32” CABLE GROMMET SIZES.**

Align the slot of the cable grommet with the slot of the cable grommet install tool (See Figure AC).

**NOT ALIGNING THE SLOTS OF THE CABLE GROMMET AND TOOL WILL NOT ALLOW THE CABLEGROMMET TO BE INSTALLED.**

Insert the flange of the cable grommet into the bottom side of the grommet install tool; making sure the slots are still aligned (See Figure AD).
Holding the grommet install tool in one hand and placing one's thumb on the top side of the cable grommet, push the cable grommet onto the cable in a downward motion. A little force will need to be applied to fit the cable grommet onto the wire (See Figure AE).

After the cable grommet is placed onto the cable, remove the grommet install tool from the flange of the cable grommet. Place the grommet install tool on the wire (using the slot in the tool as a guide) push the cable grommet into the cable hole in the post until it fits flush (See Figure AF).

### Additional Components

**Stabilizer and SunRail™ Cable Grommets - (C0916-0004-25)**
Once the cable has been installed and tensioned, it is time to add the cable grommets (part # C0916-0004-25). The grommet (See Figure AG) helps prevent movement and deflection of the cable, as well as, reduces dirt and moisture from getting inside the posts. These grommets are slotted for easy attachment onto the cable. Available in packs of twenty five (25).

**Concrete Mounting Base - S0950-0006**
Atlantis Rail offers a Concrete Mounting Base option when installing a SunRail™ system with stainless steel posts on a concrete surface. A single concrete anchor bolt (not supplied) is used to secure the mount (part # S0950-0006).

The Concrete Mounting Base (See Figure AH) matches the profile of the Atlantis Rail Mounting Base (part # S0950-0001) and Adjustable Base (part # S0950-0003). Use four (4) 5/16” x 3/4” stainless steel machine screws to attach the mounting base to the Concrete Mounting Base. For more detailed information please refer to the SunRail™ Concrete Mounting Base Installation Instructions.

**Fascia Mount Bracket - S0950-0002**
Atlantis Rail offers a fascia mounting option when installing a SunRail™ system with stainless steel posts (part # S0950-0002). This bracket is designed to be combined with the Atlantis Rail Mounting Base or Adjustable Base. It is used when a fascia mounting system is desired.

There are two methods for fastening the Fascia Mount Bracket. You can use four (4) 1/2” x 4-1/2” lag screws (not included). These screw through the side of the fascia bracket and into the fascia board (See Figure AI). If you prefer through-bolting, use four (4) 1/2” x 4-1/2” machine screws, nuts and washers (included). Mark and drill through the fascia screws, nuts and washers until tight.

When the fascia mount is securely fastened, attach the Rail Mounting Base using four (4) 5/16” x 3/4” long machine screws (included) into the top of the bracket (See Figure AJ). Tighten down, shim where necessary and install the rail as outlined in the Fascia Mount Bracket Installation Instructions.
The SunRail™ System combines the modern look of stainless steel cable railing with our polished or brushed stainless steel rails. Our patented RailEasy™ Tensioners are attached to each post at the factory and ready for installation. The SunRail™ System requires no special assembly skills or tools. Our stainless steel cable railing is perfect for interior or exterior; commercial or residential applications where clients require sophistication and a unique look. You will enjoy years of low maintenance use and the rich look of stainless steel.

**Straight Sections**

The SunRail™ System is offered in two standard post heights of 36" or 42" for straight sections. It consists of a top rail and optional bottom rail with 10 to 13 runs of cable, depending on the height and optional bottom rail.

**Stair Sections**

Rail height for stair sections is available in 36" only.

**Between Post Lengths**

Atlantis Rail recommends staying within 4’ section lengths to maintain structural integrity.

**Railing Finish**

The SunRail™ System is offered in a highly polished or brushed finish. Electro-polishing is an additional finish for ocean vicinity locations. Brushed material should never be used near ocean vicinity locations.

**Cable Spacing**

The cable is spaced on posts at less than 3” on-center to comply with nationwide building codes.

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**Micro Star™ Transformers - (S0832-0001 & S0832-0005)**

The Micro Star™ Transformers (See Figure AH) are used with all Micro Star™ lighting products. The heavy duty, water resistant construction provides years of reliable service. These transformers are DC and UL approved. The 5 amps transformer (part # S0832-0005) features a 6 ft. power cord and a 10 ft. connector lead. Available in 1 amp or 5 amps.

**SunRail™ System Specifications**

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# SunRail™ Product Specifications

## Components

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## Tool

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