



SunRail System Installation Instructions



SunRail Stainless Steel Railing Installation Guide

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Before You Begin



Important Note: Before starting your project, carefully read through the SunRail Installation Guide and study the Assembly Drawing. Lay out all parts as indicated in drawing. If you have any questions please contact your Atlantis Rail Associate. It is the responsibility of the designer, installer, or the buyer to consult the local building code authorities for specific local bylaws and code requirements before installing the railing.



When opening the railing boxes use caution when cutting box open not to cut through and damage tubing. Unpack all parts and check for any damage that may have happened in shipping and report immediately. Lay the parts out per drawing to check that all the parts are accounted for. The drawings provided are labeled with post “numbers” and rail “letters” that follow the order of assembly.

Tools You Will Require

Tools required for installation:

- Screw driver
- Power drill
- Drill bits (*wood drill bit size 7/32” for rail bases to wood, masonry drill bit size 3/8” for concrete anchors*)
- Chalk line
- Tape measure
- Level
- Carpenter square
- Pencil

Included in the Installation Kit:

- Rail adhesive
- Fasteners (screws, lags, anchors, etc.)
- Assembly drawing
- Micro-Star connector wires (if you ordered lights)



Make sure that you have checked the packing slip against the received materials to insure you have all the pieces you need to complete the job before commencing. All rails and post are numbered and should be installed in the given sequential order as indicated on the separate parts. **Before starting separate your deck and stair pieces to avoid using the wrong parts.********

Important!

Always wear safety glasses when drilling components.

If your installation requires a solution different to those in this book, or if you have any questions pertaining to your installation, please contact our Customer Care Specialist at 1-800-541-6829 or 508-732-9191 Monday to Friday between the hours of 8:30 AM and 5:00 PM EST.

Installing Rail Bases

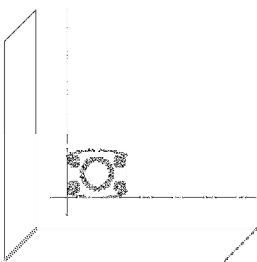
Two Rail System (Top and Bottom Rail)



NOTE: If you ordered the rail system with the optional MicroStar LED lighting, refer to page 13 before continuing.


Option 1: If your rail design calls for surface mounted bases use the following instructions:

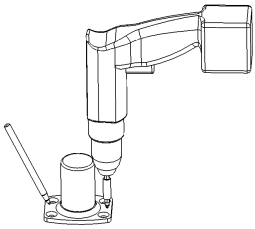
Step 1:




- According to your assembly drawing snap chalk lines on the mounting surface (deck, interior floor, etc) to produce straight lines for installing your bases. Chalk lines should always be set according to the assembly drawing specifications, but at a minimum of 2" away from the edges of the deck boards where the deck boards overhang the joists to avoid splitting the board when drilling the holes for the surface mount base. This will ensure that the railing is straight. ***Important!!*** When mounting on a deck, for greater stability, surface mount bases must be installed on the boards directly over the

joists. A minimum of 2 of the 4 supplied screws for the bases must be screwed through into the joists. Where screws are not inserted directly into the joists, the under part of the deck should be reinforced for greater stability.

 **NOTE: It is very important to secure the surface mount bases into the joist supports below for overall strength and stability. Most decks have double joists at the perimeter, and for best strength, two base screws should be located in each of those.**



- Carefully determine the position of the first base and last base according to your assembly drawing, very. Verify that the spacing of intermediate posts matches the assembly drawing layout for your deck railing.
- Mark the location of the screw holes and pre-drill holes through the deck boards and into the joists below; be careful not to drill oversize, .

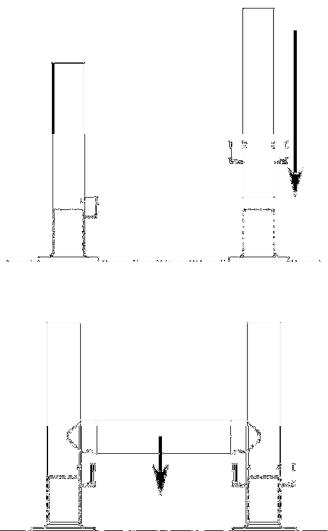
 **NOTE: Make sure that the base is aligned and perfectly level. Matching stainless steel shims are available if required.**

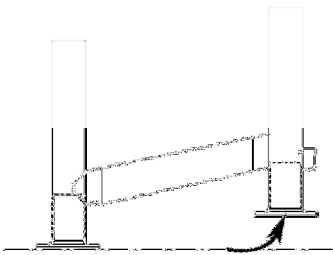
- Fasten the base to the deck with the wood screws provided.
- Insert the first post over the base.

Step 2:

- Insert the second post over the second base.
- If you have a bottom rail, insert the dovetail connector completely into the bottom rail as shown.
- Slide the bottom rail over the dovetails on the first and second posts. **Do not fasten the bottom rail.**

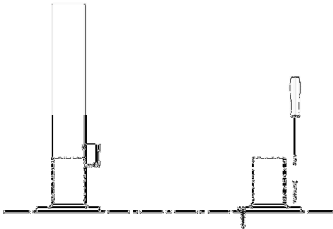
 **NOTE: It is recommended to NOT fasten the dovetail connectors to the bottom rails with the adhesive.**





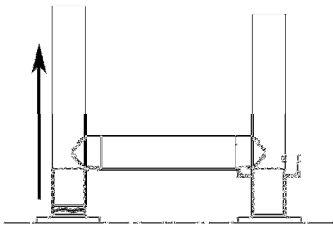
Step 3:

- Position the second base in line with the first base along the chalk line.
- Mark the location of the screw holes.
- Move the second base and rail slightly away and pre-drill holes through the deck boards and into the joists below.
- Move the base and rail back into place.



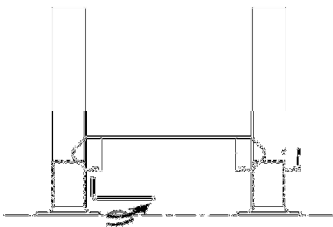
Step 4:

- Remove the bottom rail.
- Remove the second post.
- Fasten the second base to the deck with the screws or fasteners provided.



Step 5:

- Insert the second post over the second base.
- Slide the bottom rail over the dovetails on the first and second posts. Do not fasten.
- Lift the first post up 1/2" and apply a thin bead of the provided adhesive to the base. **Do not over apply adhesive.**
- Slide the post back over the base. Wipe off any excess adhesive immediately.

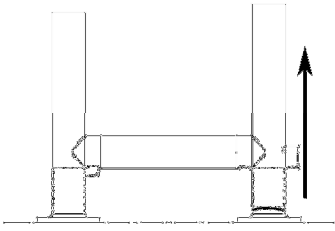


Step 6:

- Repeat step 2 to 5 for the next base and post.

Step 7:

- Insert the bottom rail between the first and second posts and fasten.



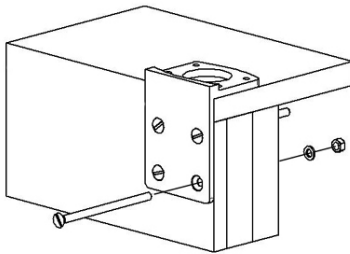
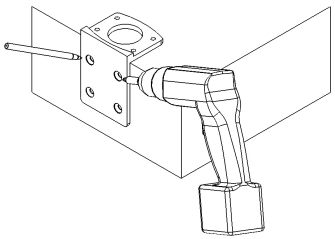
Step 8:

- Repeat steps 6 to 7 for the remaining posts.

Step 9:

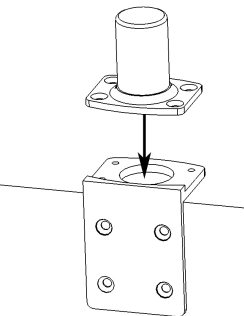
- Lift the last post up 1/2" and apply the provided adhesive to the base.
- Slide the last post back over the base.

Option 2: : If your rail design calls for fascia mounted (side mounted) bases use the following instructions:



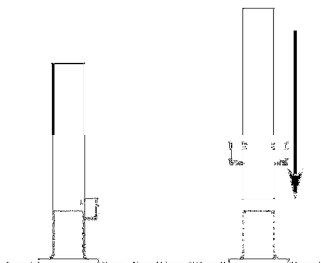
Step 1:

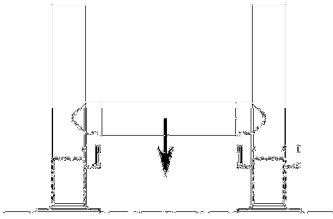
- According to your assembly drawing carefully determine the position of the first side joist mount bracket and last side joist mount bracket very carefully. Verify that the spacing of intermediate posts is equal and matches the layout you ordered for your deck railing.
- Mark the location of the bolt holes and pre-drill holes into the side of the joist; be careful not to drill oversize.
- Fasten the side joist mounts bracket with the bolts provided.
- Align the base over the top of the side joist mount bracket.
- Fasten the base with the provided hardware (screws, bolts, nuts) as specified.
- Insert the first post over the side joist mount bracket.



Step 2:

- Insert the second post over the second side fascia mount bracket.
- Insert the second post over the second base.
- Insert dovetail connector completely into the bottom rail.



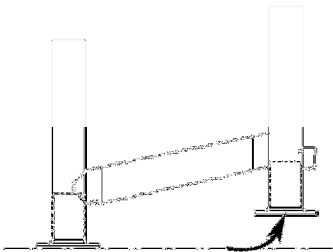


- Slide the bottom rail over the dovetails on the first and second posts. Do not fasten the bottom rail.

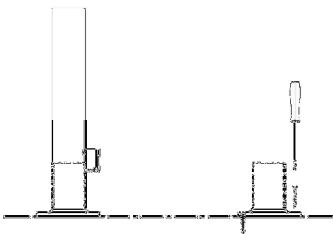


NOTE: It is recommended to NOT fasten the dovetail connectors to the bottom rails with the adhesive.

Step 3:

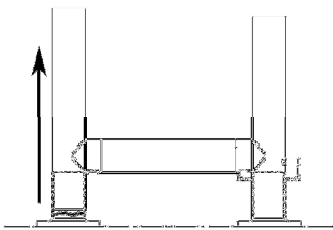


- Position the second side joist mount bracket.
- Mark the location of the screw holes.
- Move the second side joist mount bracket and rail slightly away and pre-drill holes through the side of the joists below.
- Move the side joist mounts bracket and rail back into place. Fasten the base to the side mount bracket.



Step 4:

- Remove the bottom rail.
- Remove the second post.
- Fasten the second side joist mount bracket to the side and top of the deck with the wood screws provided.

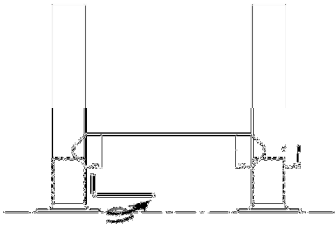


Step 5:

- Insert the second post over the second base.
- Slide the bottom rail over the dovetails on the first and second posts. Do not fasten.
- Lift the first post up 1/2" and apply a thin bead of the provided adhesive to the base.
- Slide the post back over the base. Wipe off any excess adhesive immediately.

Step 6:

- Repeat steps 2 to 5 for the next side joist mount bracket and post.



Step 7:

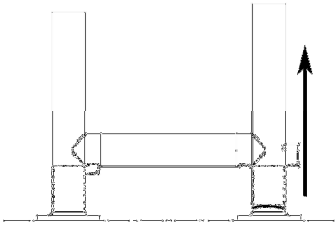
- Insert the bottom rail between the first and second posts and fasten.

Step 8:

- Repeat steps 6 to 7 for the remaining posts.

Step 9:

- Lift the last post up ½” and apply a thin bead of the provided adhesive to the base.
- Slide the last post back over the base.



Single Rail System (Top Rail Only)

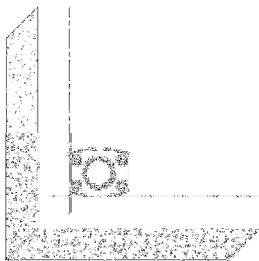
Horizontal Wire Rope System



NOTE: If you ordered the rail system with the optional MicroStar LED lighting, refer to page 13 before continuing.



NOTE: Most single rail system incorporate Horizontal Wire Rope using Rail Easy Turnbuckles attached to end and corner post. Care must be used to insure that all mid post are placed with the pre drilled pass through holes aligned with the end and mid post.

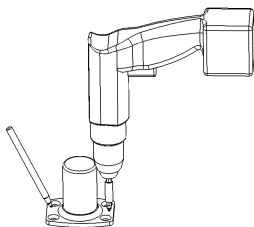


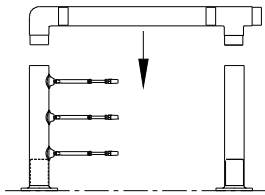
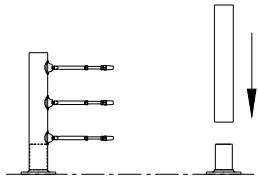
Step 1:

- Follow Step One above for the base style specified for your rail system.

Step 2:

- Insert the second post over the second base and align according to your assembly drawing.
- Insert the post top fitting (elbow, “T”, or adjustable fitting) in the first post and insert the top rail.
- Insert the post top fitting in the second post and insert the top rail into the second post top fittings. **Care must be used to insure that all mid post are placed with the pre drilled pass through holes aligned with the end and mid**





post.

- Make sure all fittings and rails are tightly fitted and using a level insure that the post in a straight and level position.
- Mark the base outline and screw holes and remove the second post

Step 3:

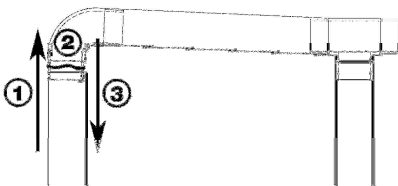
- Follow Step Three above for the base style specified for your rail system.

Step 4:

- Remove the top rail.
- Remove the second post.
- Fasten the second base to the side or top of the deck with the hardware provided.

Step 5:

- Insert the second post over the second base.
- Slide the top rail into the top fittings on the first and second posts. Do not fasten.
- Lift the first post up 1/2" and apply a thin bead of the provided adhesive to the base.
- Slide the post back over the base. Wipe off any excess adhesive immediately.



Step 6:

- Repeat steps 2 to 5 for the next base and post.

Step 7:

- Insert the top rail between the first and second posts and fasten.

Step 8:

- Repeat steps 6 to 7 for the remaining posts.

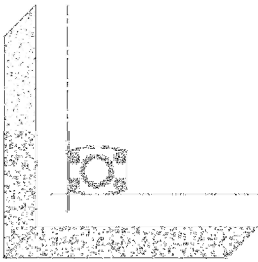
Step 9:

- Lift the last post up ½” and apply a thin bead of the provided adhesive to the base.
- Slide the last post back over the base.

Installing A Baluster System

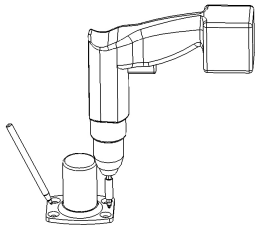


NOTE: *If you ordered your rail system with the optional MicroStar™ LED lighting, refer to page 13 before continuing.*



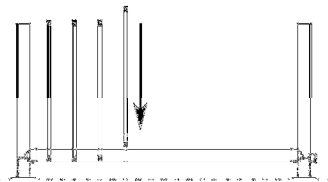
Step 1:

- Install the rail bases, posts, and bottom rails as per the instructions on pages 3 to 10 in accordance to your specific mounting situation.



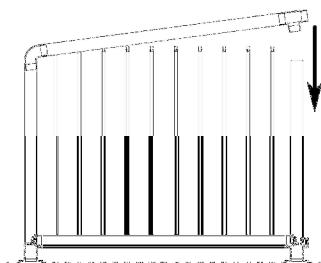
Step 2:

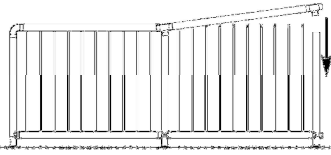
- **Important!** Insert the provided plugs into both ends of each baluster.
- Starting with the first section, insert balusters into the first section of railing.
- Insert the connectors into the top rail.
- Slide the connector and top rail over the first and second posts and the balusters.



Step 3:

- Insert balusters into the next section of railing.
- Insert the next connector into the next top rail.
- Insert the top rail into the previous connector and slide the top rail and connector over the balusters and next post.





Step 4:

- Repeat step 3 for remaining sections.

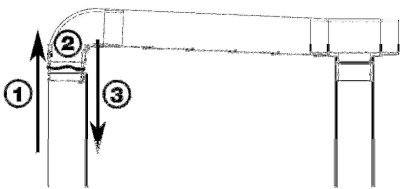
Step 5:

- Working from the first section of railing and working one section and one post and connector at a time, lift the top rail assembly $\frac{1}{2}$ " and apply a bead of the provided adhesive to the connector.


- Slide the connector back into the post.

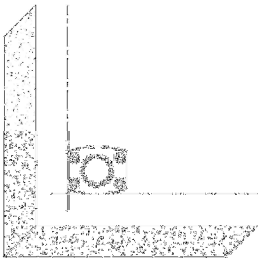
Step 6:

- Repeat step 5 for the remaining sections of railing.



Installing A Glass Railings System

 **NOTE:** If you ordered the rail system with the optional *MicroStar LED lighting*, refer to page 13 before continuing.



Step 1:

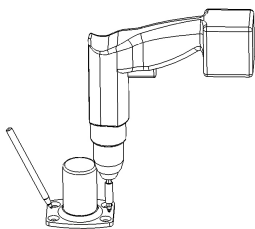
- Install the rail bases, posts, and bottom rails as per the instructions on pages 3 to 10 in accordance to your specific mounting situation.

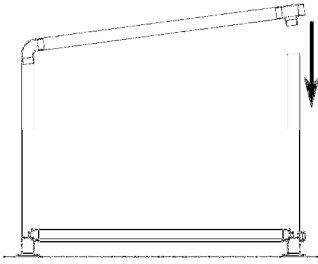
Step 2:

- Starting with the first section, insert the connectors into the top rail.
- Slide the connectors and top rail over the first and second posts.

Step 3:

- Insert the next connector into the top rail.
- Insert the top tail into the previous connector and slide the top rail and connector over the next post.

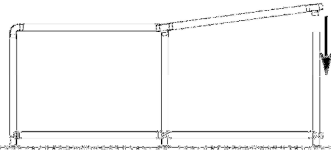




Step 4:

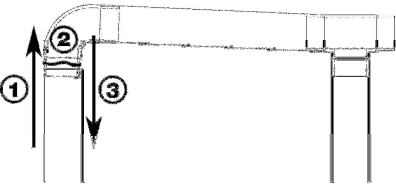
- Repeat step 3 for the remaining sections.

Step 5:



- Working from the first section of railing and working one section and one post and connector at a time, lift the top rail assembly 1/2" and apply a bead of the provided adhesive to the connector.
- Slide the connector back into the post.

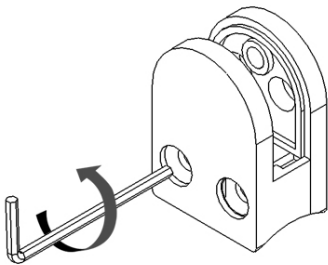
Step 6:



- Repeat step 5 for the remaining sections of railing.

Step 7:

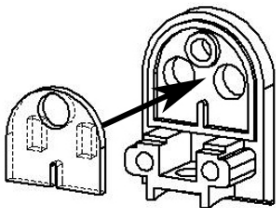
- Take apart glass connector using the provided Allen key.



- Ensure that the rubber pads are properly positioned in each of the glass connectors. Each side of the glass connector should have 1 pad.

Step 8:

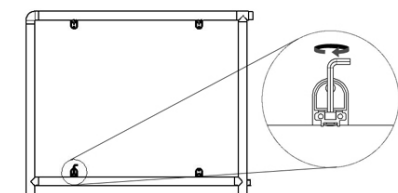
- Starting with the first section of the rail and working one section at a time, attach half of the glass connector bases to the top and bottom rails with the appropriately sized provided bolt and Allen key.



NOTE: Ensure that all glass connectors are facing in the same direction.

- Re-attach loosely the second half of the glass connectors to the bottom rails using the supplied Allen key.

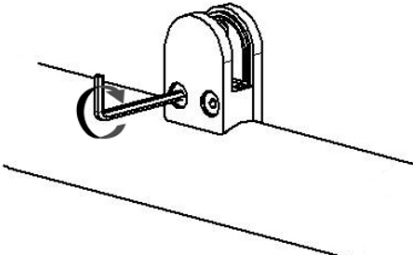
Step 9:



- Slide the glass insert into the bottom connectors.

NOTE: Refer to page 14 for glass inserts

specifications and dimensions.



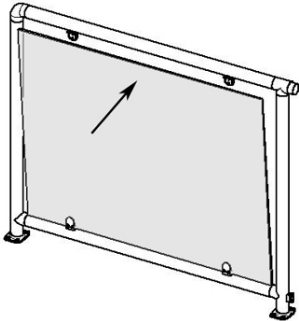
Warning!

**Do not over tighten to avoid glass insert breakage.
Use the provided Allen key only.**

- Attach the second half of the glass connectors to the top rail and secure into place using the provided Allen key.
- Secure the bottom connectors using the provided Allen key.

Step 10:

- Repeat steps 3 and 4 for the remaining sections of railing.



Glass Insert Specifications



NOTE: It is the responsibility of the designer, installer, or the buyer to consult the local building code authorities for specific local bylaws and code requirements before installing the glass inserts.

It is recommended that following type and size of glass be used:

Type: tempered glass

Thickness: 3/8" (10mm)

Dimensions: 44.5" length X 34" height

Optional: Installing MicroStar LED Lighting



NOTE: It is the responsibility of the designer, installer, or the buyer to consult the local building code authorities for specific local bylaws and code requirements before installing railing systems with MicroStar LED Lighting.



NOTE: MicroStar lights arrive pre-wired in the top rail only.

Step 1:

- Mount the transformer near a 110v power outlet but leave the transformer unplugged until it is needed. Select the end post closest to the outlet in order to connect to the transformer.

Step 2:

For Railing Installations over a Wood Deck

- Before installing the first railing post, drill a small hole through the decking in the center where the first post base will be mounted.
- Run a section of wire down through the post and hole in the decking to the transformer. This ensures a clean look with all wiring kept out of view. Extra wire may be needed and is available upon request.

For Railing Installations over Concrete or Masonry

- Before installing the first railing post, drill a small hole through the concrete or masonry in the centre where the first post base will be mounted.
- Run a section of wire down through the post and hole in the concrete or masonry to the transformer. The wire needs to be routed through a suitable conduit, which in turn must be securely fastened to the concrete in such a way as to not create a hazard. This ensures a clean look with all wiring kept out of view. Extra wire may be needed and is available upon request.

Step 3:

- When ready to install the top rail connect the wiring that goes through the end post to the wiring in the first top rail section.



NOTE: Ensure that the wire colors match (i.e., red to red, etc)

- For each addition section, run the wire through the top

fittings.

- Connect the wires using the supplied intermediate connectors supplied with your system, as you install the top rail.

Important!

Make sure that the wiring does not get cut nor pinched.



NOTE: It is recommended that each section be tested before installing the following one by plugging the transformer in. If the lighting does not work, recheck the wire connections.

- For the last railing section, tape the each connector to insure they do not touch and then tape the end wire connectors together and store the excess in the top rail before finishing the installing.

Option: If wiring isolated sections of rail, use one of the following two options:

For Railing Installations over a Wood Deck

- Wire the section directly to the transformer.
- Run the wiring from another section under the deck and through the mounting base.

For Railing Installations over Concrete or Masonry

- Wire the section directly to the transformer.
- Run the wiring from another section under the concrete or masonry and through the mounting base.

Step 4:

- Once railing is completely installed and lighting is fully functional, set the timer on the transformer for the desired lighting period.

Warranty and Limitations

Consumer's 5 Year Manufacturer's Defect Warranty

SUNCOR STAINLESS, INC., warrants its products to be free of

defects in material and workmanship under normal use and with normal maintenance for a period of five (5) years. Discoloration of the product or surface oxidation is not considered a defect. This Limited Warranty extends only to the original purchaser and does not run to any subsequent purchaser.

If the product fails, we will repair the product or send you a new part free of charge, provided the product has been given reasonable care, has not been used for commercial service, and the damage has not resulted from improper installation, accident, negligence or misuse, or from unauthorized alterations by the purchaser.

All claims must be made through the source of purchase (Atlantis Rail, your contractor, or our dealer) within thirty (30) days after discovery of the defect. Details on the defect and how the product was used, together with proof of purchase must be included with the defective product, and sent to SUNCOR prepaid and insured.

IN NO EVENT SHALL SUNCOR STAINLESS, INC. BE LIABLE UNDER THIS WARRANTY FOR ANY AMOUNT EXCEEDING THE ORIGINAL PURCHASE PRICE OF THE PRODUCT. SUNCOR STAINLESS, INC DOES NOT UNDER ANY CIRCUMSTANCES ASSUME THE RESPONSIBILITY FOR ANY CONSEQUENTIAL DAMAGES INCURRED IN CONNECTION WITH THE USE OF ITS PRODUCTS.

This warranty set forth is in lieu of all other warranties, whether expressed or implied. SUNCOR STAINLESS, INC. disclaims any warranty whether expressed or implied, with regard to the products sold by it or any dealer, including any implied warranty of merchantability beyond the scope of the warranty set forth above, and except as may otherwise be prohibited by applicable law.

Important Notice

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Contact Information

If you require additional information, please do not hesitate to contact us. We are here to help you with your project.

Customer Care Specialist

1-800-541-6829 or 508-732-9191

Monday to Friday between the hours of 8:30 AM an 5:30 PM EST

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