



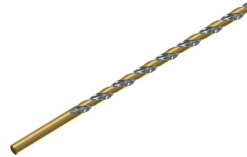
Tools Needed for Installation



Pencil



Drill



1³/₆₄" Metal Drill Bit



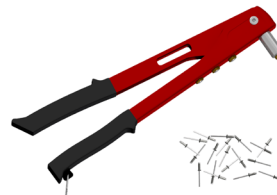
Surface Cleaner



Epoxy Primer



PARTITE™ Epoxy



Rivet Gun
3/16" Rivets



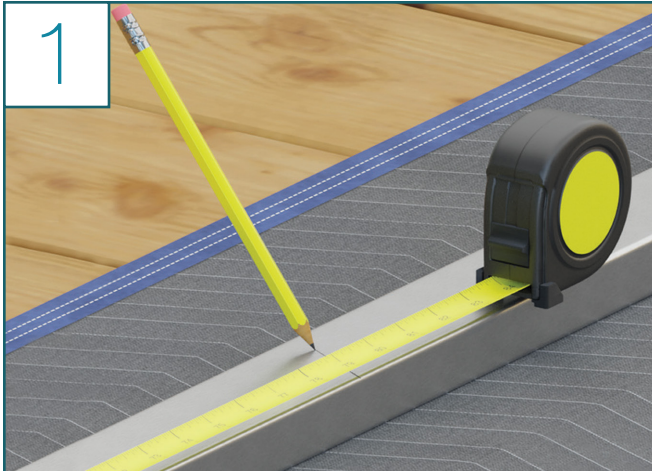
Painter's Tape & Zip Ties

Things to Know Before You Get Started

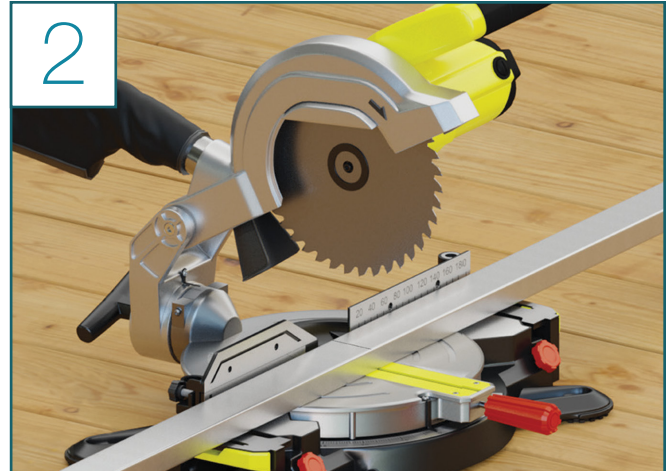
- Read over the provided material prior to the start of your installation
- Be sure to read over the adhesive handling guidelines on page 5
- Epoxy must be applied within 6 hours of the primer
- The epoxy cure time is 24 hours and needs an outside temperature greater than 50 degrees Fahrenheit during this period
- There will be 2 mixing tips per epoxy gun, and each mixing tip will be able to cover 4 posts
- Each epoxy cartridge should cover 20-25 posts



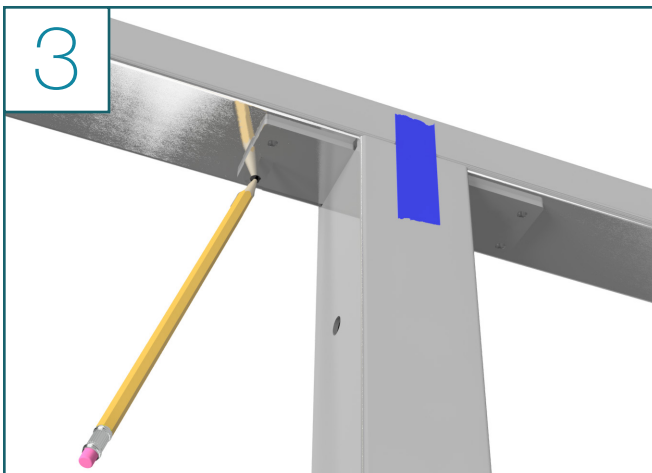
Extreme Coastal Handrail: Level Post Installation Steps



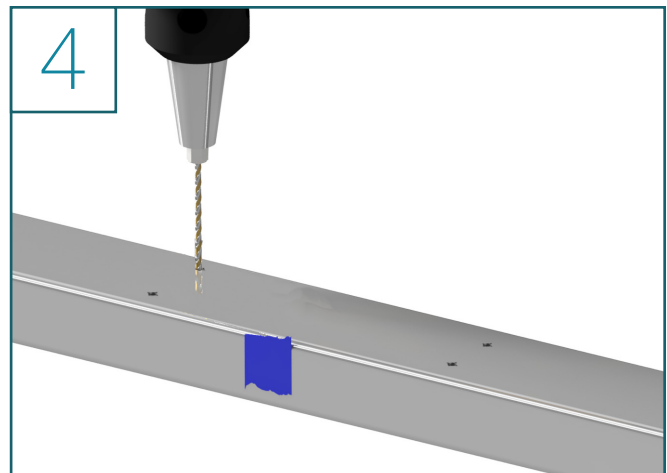
- Select the relevant handrail for the run you are working on
- Lay the handrail upside down on a protected surface
- Measure the run and mark the cut length for the handrail



- Using the appropriate blade for the handrail material, cut at the mark

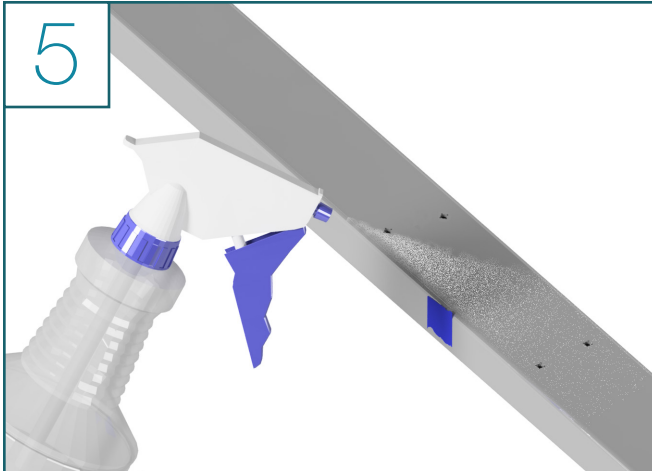


- Identify the handrail for the run you are working on
- Place the handrail on the posts and use a pencil (or marker) to mark the rivet holes through the bracket and onto the handrail
- It may be useful to place painters tape vertically across the handrail and onto the post
- Do this step for each post on the run

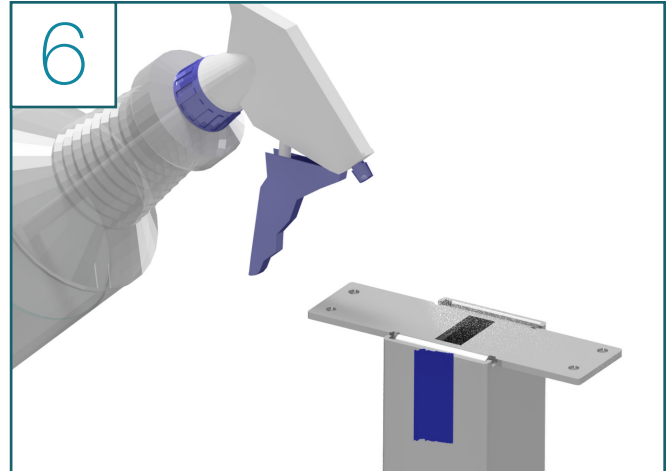


- Remove the handrail, breaking the tape and leaving the pieces where they are - This will help line it all back up later
- Using a $13/64$ " (.203" Diameter) drill bit, drill out each premarked rivet hole
- Do this for each premarked hole

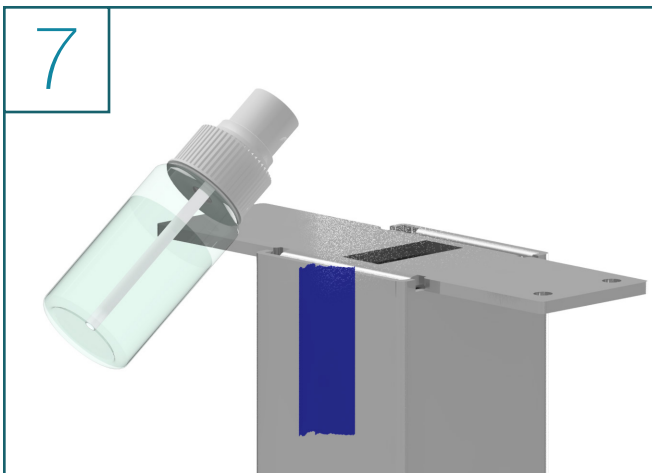
Extreme Coastal Handrail: Level Post Installation Steps (Continued)



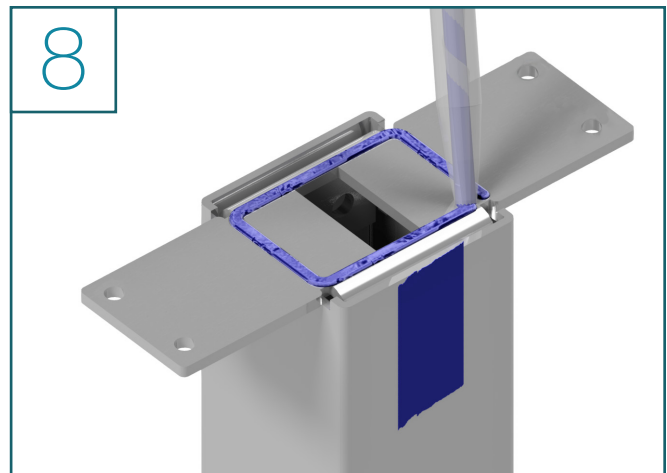
- Using a stainless steel cleaner, clean off each bracket location on the handrail



- Using a stainless steel cleaner, clean off the top of each bracket on the run

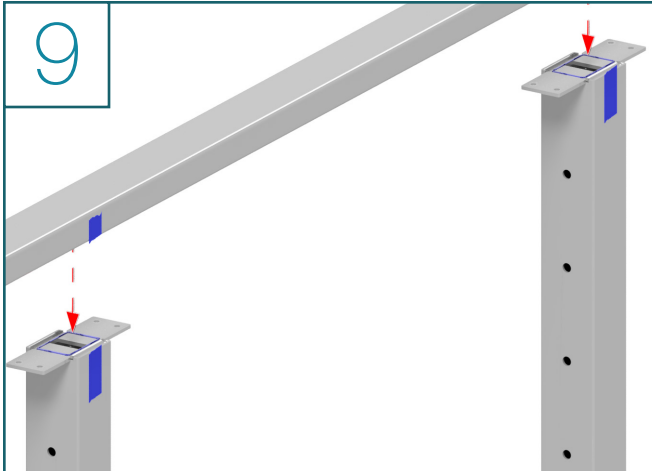


- Apply 1 layer of the epoxy primer on the top of each bracket and on each bracket location on the handrail
- Spray on the primer and then lightly wipe off, the residue should dry slightly red
- The primer takes 5 minutes to fully dry and will be a light red color
- Make sure to apply the epoxy within 6 hours of the primer

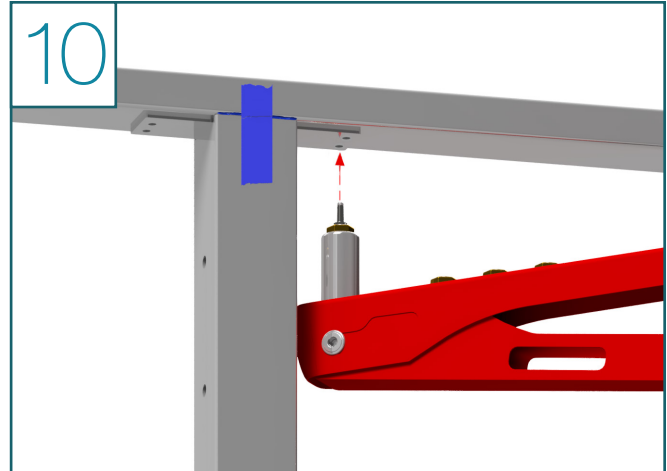


- Next, apply the epoxy to the bracket around the center of the bracket
- It is best to do this step as quickly as possible

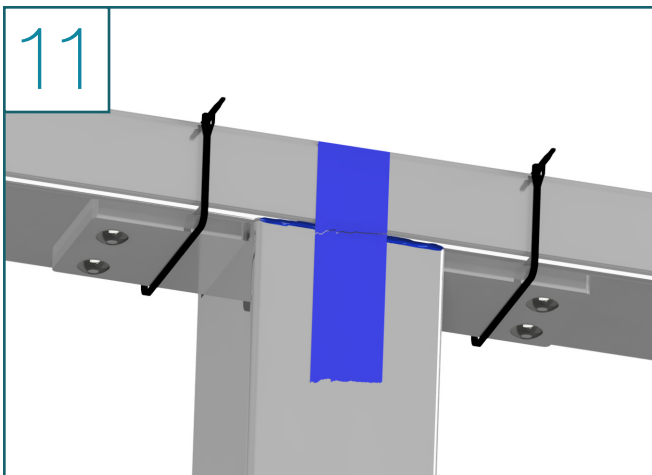
Extreme Coastal Handrail: Level Post Installation Steps (Continued)



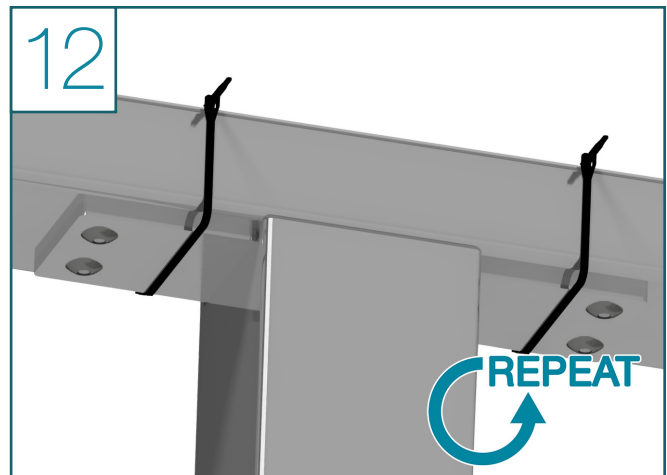
- Quickly mount the handrail on top of the brackets, and line up the drilled rivet holes and the tape locations



- Use the Rivet Gun to attach the $\frac{3}{16}$ " Rivets into each rivet holes
- Because of how fast the epoxy sets (10-15 minutes) it is recommended to rivet your two end posts first, as this will more than likely line up the handrail for the entire run



- The rivets should hold the handrail tightly in place, but if a tighter seam is desired, you can use zip ties to help tighten the handrail against the bracket
- Once your handrail is mounted, quickly wipe away and epoxy excess that is squeezed out during this process
- Using an industrial adhesive solvent will help with this the removal of the excess epoxy
- Remove any painters tape

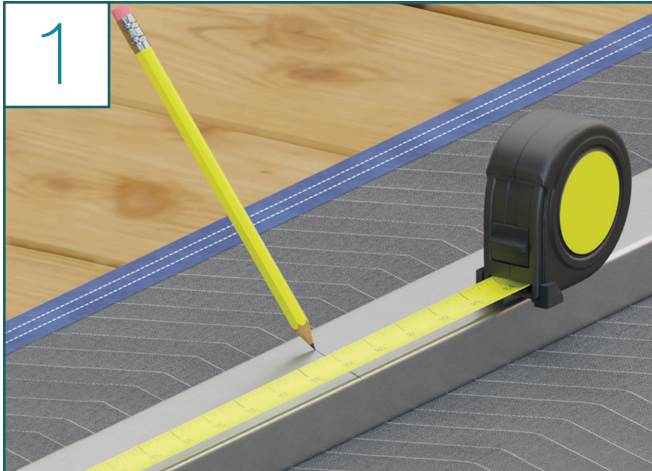


- Repeat steps 1-11 for each handrail on each run
- Allow the epoxy to cure for a full 24 hours before tightening any cable or rod railing infill

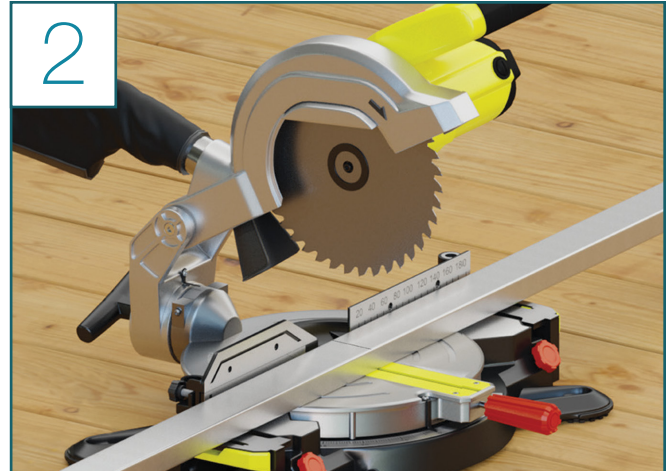
Congratulations! You're done with the level section.

We'd love to see your work! Snap a few pics with your phone and send them to pictures@viewrail.com. Thanks for choosing Viewrail. Enjoy your new installation!

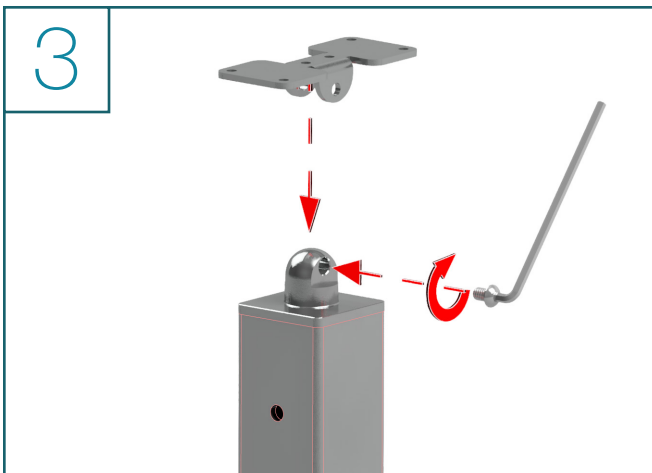
Extreme Coastal Handrail: Angle Post Installation Steps



- Select the relevant handrail for the run you are working on
- Lay the handrail upside down on a protected surface
- Measure the run and mark the cut length for the handrail



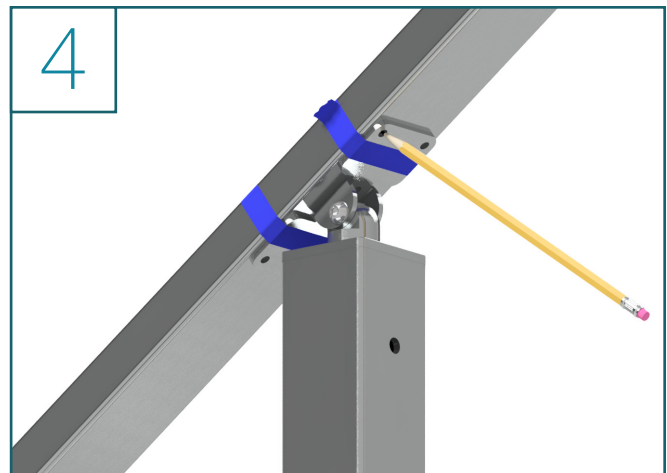
- Using the appropriate blade for the handrail material, cut at the mark



- Identify and prepare the universal top brackets for each post
- Using the Allen wrench and button head screws, fasten the bracket to the post top dome

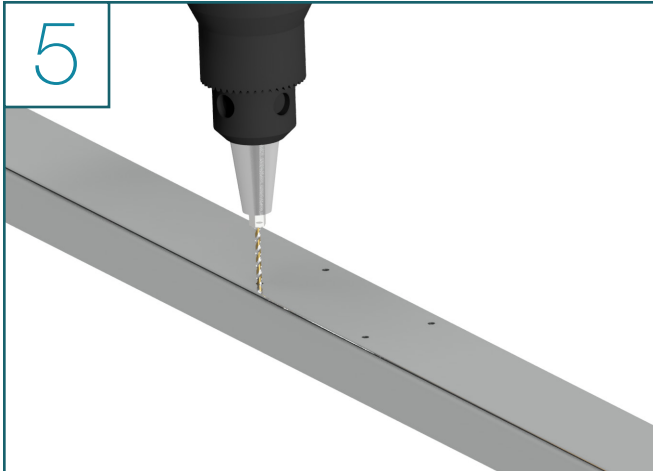
Note:

To prevent possible corrosion, only use the supplied chrome plated Allen wrench when doing this step

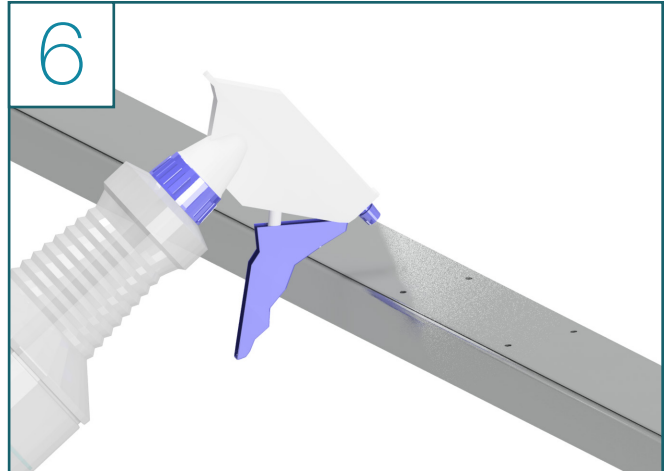


- Set the handrail in place on the post tops
- Using painter's tape, lightly attach the handrail to the bracket - This will help hold the handrail in place
- Use a pen or pencil to mark the rivet hole locations on the handrail

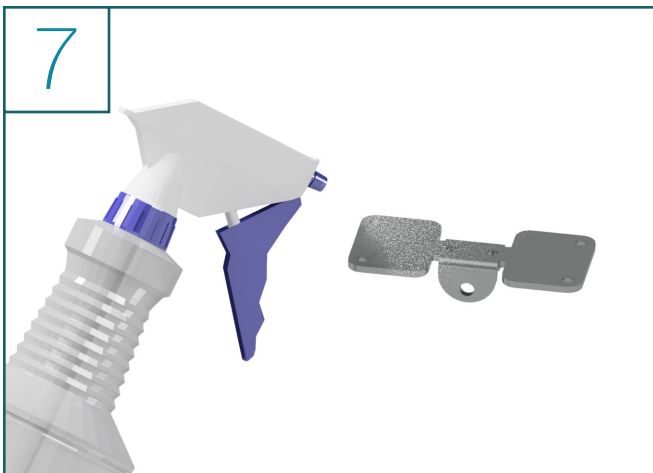
Extreme Coastal Handrail: Angle Post Installation Steps (Continued)



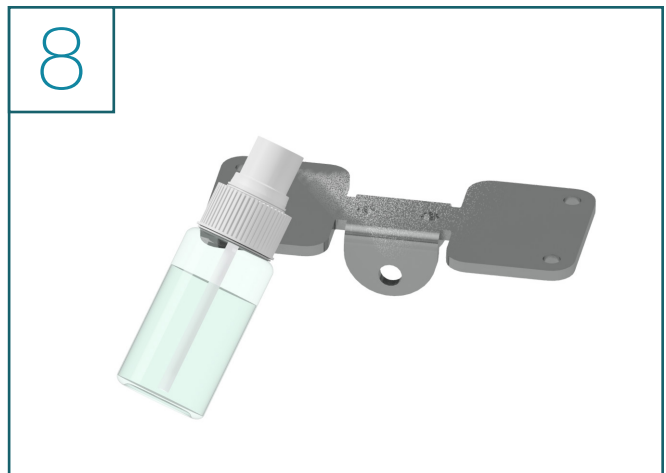
- Remove the handrail. You can remove the pieces of tape at this point.
- Using a $\frac{13}{64}$ " (.203" Diameter) drill bit, drill out each premarked rivet hole
- Do this for each premarked hole



- Set the handrail upside down on a protected surface
- Using a stainless steel cleaner, clean off each bracket location on the handrail

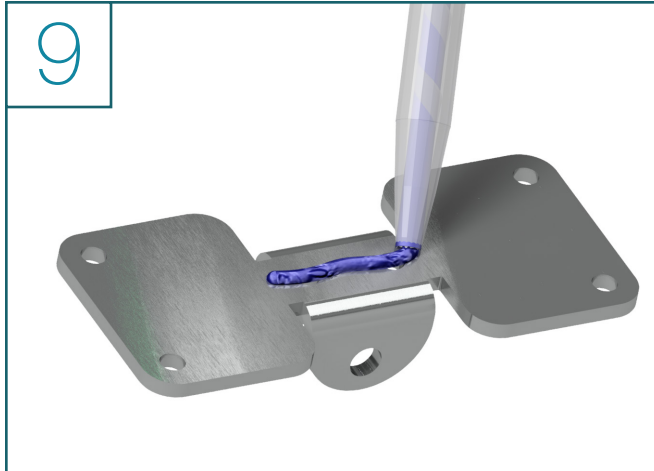


- Using a stainless steel cleaner, clean off the top of each bracket on the run

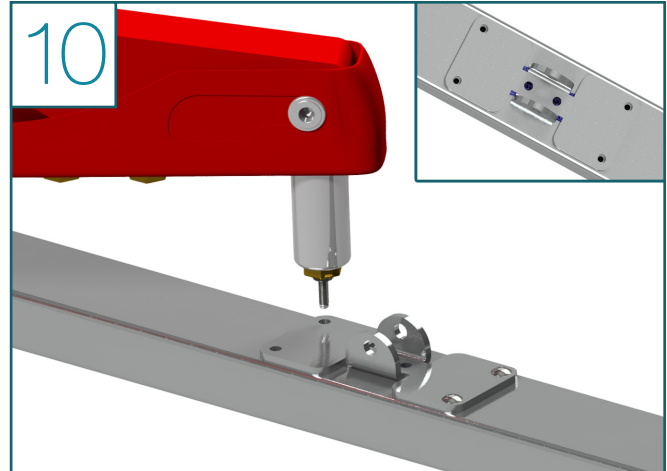


- Apply 1 layer of the epoxy primer on the top of each bracket and on each bracket location on the handrail
- Spray on the primer and then lightly wipe off, the residue should dry slightly red
- The primer takes 5 minutes to fully dry and will be a light red color
- Make sure to apply the epoxy within 6 hours of the primer

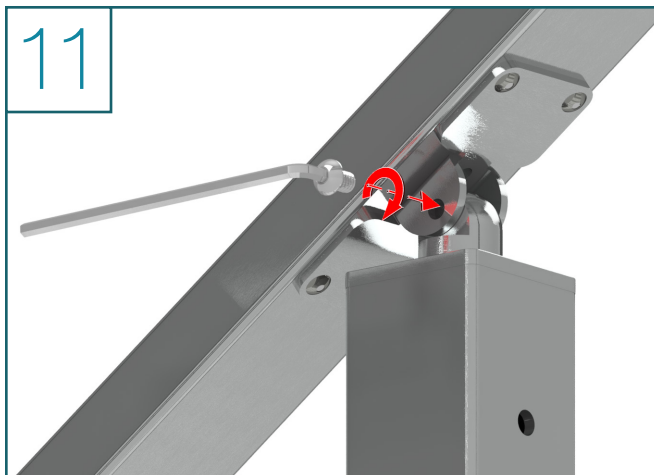
Extreme Coastal Handrail: Angle Post Installation Steps (Continued)



- Next, apply the epoxy to the bracket around the center of the bracket
- It is best to do this step as quickly as possible
- Because of how fast the epoxy sets (10-15 minutes) it is important to do the following steps quickly for all the brackets on the handrail piece you are working on



- Quickly mount the brackets on the top of each handrail, lining up the rivet holes
- Use the Rivet Gun to attach the $\frac{3}{16}$ " Rivets into each rivet holes
- Wipe off any excess epoxy



- When the epoxy has begun to set (at least 20 minutes), begin mounting the handrail and handrail brackets to the tops of the posts
- Fasten the button head screws securely

Note:

To prevent possible corrosion, only use the supplied chrome plated Allen wrench when doing this step



- Repeat steps 1-11 for each handrail on each run
- Allow the epoxy to cure for a full 24 hours before tightening any cable or rod railing infill

Congratulations! You're done with the angle section.

We'd love to see your work! Snap a few pics with your phone and send them to pictures@viewrail.com. Thanks for choosing Viewrail. Enjoy your new installation!

PARTITE 7300 Epoxy: Additional Information

HANDLING AND PRECAUTIONS

Read Material Safety Data Sheet before handling or using this product. Adhesive component A contains methyl methacrylate monomer and always use in a well-ventilated area. Activator component B contains peroxide. Both materials must be stored in a cool place away from sources of heat and open flames or sparks. Keep containers closed when not in use. Prevent contact with skin and eyes. In case of skin contact, wash with soap and water. In case of eye contact, flush with water for 15 minutes and seek immediate medical attention. Harmful if swallowed. Keep out of reach of children. Note: The chemical curing reaction that occurs when components A and B are mixed generates heat. The amount of heat generated is controlled by the mass and thickness of the mixed product. Large masses over 1/2 inch thick can develop heat in excess of 250°F/121°C and can generate harmful, flammable vapors. Large curing masses should be carefully moved to a well-ventilated area where the chance of personal contact is minimized.

DISPENSING EQUIPMENT

Dispensing directly from disposable cartridges or meter-mix-dispensing equipment is strongly recommended. Both methods employ convenient static motionless mixer technology. Product supplied in pre-measured cartridges is dispensed from approved manual or pneumatic powered guns. When meter-mix dispense systems are used, care must be taken to assure compatibility between the adhesive components and the materials in the equipment that they contact. All wetted metal components should be constructed of stainless steel or aluminum or have a sufficient thickness of chemically resistant material that prevents contact between the adhesive components and the base metal. Contact with copper, zinc, brass or other alloys containing these materials must be strictly prevented. All non-metallic seals and gaskets should be fabricated from Teflon® or UHMW polyethylene based materials.

MIXING AND APPLICATION

All surfaces must be clean, dry, dust and grease free. Best result will be achieved with surfaces that have been lightly abraded immediately prior to bonding. Always dispense a quantity of adhesive at start-up to assure that the adhesive exiting the tip of the mixer is the proper color and is uniform, without streaks. If previously opened or aged material is being used, allow the purged material to cure to assure quality before proceeding. Carefully dispense a sufficient quantity of adhesive on the substrate to assure that the bond gap will be completely filled when the parts are joined. Allow for squeeze-out at the edges of the bond to assure filling. Carefully secure or clamp parts to prevent joint movement while the adhesive sets. Do not apply excessive pressure that can cause excessively thin gaps and starve the bond line. Test the curing adhesive at the edges for fingernail hardness before removing clamps or fixtures.

CURING

Working time is the approximate time, after mixing components A and B that the adhesive remains fluid and bondable. Fixture time is the approximate time after mixing components A and B required for the adhesive to develop sufficient strength to allow careful movement, unclamping or demolding of assembled parts. Parts can generally be put in service when 80 percent of full strength is developed. The time to achieve 80% cure is approximately 2-3 times that required for fixturing.

CLEAN UP

Adhesive components and mixed adhesive should be removed from mixing and application equipment with a suitable industrial solvent or cleaner before the mixed adhesive cures. Once the adhesive cures, soaking in a strong solvent or paint remover will be required to soften the adhesive for removal.

STORAGE AND SHELF LIFE

Shelf life of adhesive (Part A) is 1 year from day of shipment from Parson. Shelf life of activator (Part B), including cartridges that contain activators, is 9 months from day of shipment. Shelf life is based on continuous storage between 55°F and 75°F. Long term exposure above 75°F will reduce the shelf life of these materials. Prolonged exposure of activators, including cartridges which contain activators, above 100°F quickly diminishes the product's reactivity and should be avoided. Shelf life can be extended by refrigeration (45°F - 55°F). These products should never be frozen.

Warranty

All information presented in this data sheet is based on laboratory testing under controlled conditions and is not intend for design purposes. Due to variance of storage, handling & application of these materials; Parson makes no representations or warranties of any kind concerning this data. The ultimate suitability for any intended application must be verified by the end user under anticipated test conditions. All products purchased from or supplied by Parson are subject to terms and conditions set out in the contract. All other information supplied by Parson is consider accurate but are furnished upon the express condition the customer shall make its own assessment to determine the product's suitability for a particular purpose. Parson makes no other warranty, either express or implied, including those regarding such other information, the data upon which the same is based, or the results to be obtained from the use thereof; that any product shall be merchantable or fit for any particular purpose; or that the use of such other information or product will nor infringe any patent.