



Railing Installation Instructions

It is the responsibility of the installer to meet or exceed all code and safety requirements and to obtain all required building permits. These instructions are only a guide and may not address every circumstance. The deck and railing installer should determine and implement appropriate installation techniques for each situation. Always use the proper safety equipment recommended for the machinery or product you are using when installing our railing.

Step 1 - Prepare Mounting Surfaces

- a. Install and prepare all mounting surfaces and posts to which your railing will be installed. We suggest using our surface mounted steel galvanized structural posts or covering wood posts with our matching-color vinyl post sleeves or wraps. Finish with one of our many styles of post caps and base trim rings.
- b. Make sure you have installed the post skirt prior to installing your railing.
- c. Do not cut your post sleeve to length or install the post cap until your railing is completely installed.

Step 2 - Cutting and Mounting Bottom Rail

- a. Measure distances between posts or mounting surfaces for bottom rail. Mark bottom rail making sure you have equal and maximum distance between the baluster hole and post on both ends of the rail.
- b. With bottom rails marked, you may cut bottom rail squarely with a hacksaw or power miter box. You may cut vinyl and aluminum insert at same time with the proper saw blade. (Check you saw blade manufacturer's specs)
- c. Your bottom rail should be no greater than 4" and no less than 2 1/2" for 36" high railing and no greater than 2" for 42" high railing. We recommend the following:
 1. 36" Standard Railing - Measure up 3 1/4" from the mounting surface and mark with a pencil.
 2. 42" Standard Railing - Measure up 1 1/2" from mounting surface and mark with a pencil.
- d. Center bracket on the post and align bottom edge on the mark with large flat side toward the post surface. Mark the screw holes, pre-drill 5/32 holes and screw one bracket into place using #10 x 3/4" pan head screws.
- e. Slide bottom rail into mounted bracket and slide bracket on other end of rail. Align bracket bottom to mark, center bracket on post and check rail is level. Mark holes, pre-drill and screw bracket to post with rail into bracket.
- f. After bottom rail is mounted, measure from top of bracket up (36" Standard Rail 24 1/2" & 42" Standard Rail 32" and mark with pencil. This will be mounting mark for bottom of the top bracket.

Step 3 - Installing Balusters and Top Rail

- a. Measure the distance from post to post where top rail will be mounted. Cut top rail to desired length. (If post is plumb, top rail should be same length as bottom rail. Make sure distance from post to baluster is the same for both top and bottom rail) Cut top rail to desired length.
- b. Starting from one end place balusters into each hole in bottom rail.
- c. Once balusters are in place, slide railing bracket on both ends of top rail (flat side towards end of rail) and place top rail on balusters making sure they slide into the rail holes and the top rail is level. Center rail brackets on post and align with marks. Mark holes, pre-drill holes and screw rail brackets into post.

Step 4 - Finishing Touches

- a. Use #10 x 1" self drilling pan head screws to attach rail bracket to top and bottom rail. Screw vertically through bottom of each bracket into the rail. Place PVC screw covers over screws.
- b. Place the PVC screw hole plugs into the rail bracket holes.
- c. After your railing is installed, you will need to trim the top of your Vinyl Sleeve before installing your Post Caps. Measure up 2 1/2" to 3" from the top of the rail mounting bracket and mark. Cut down the Vinyl Sleeve using a Hand or Power saw. (Be sure to cut the top of post flush)
- d. You are now ready to install your cap. With PVC cement or SILICONE caulk, use a small amount on the inside lip of the cap and mount in place.
- e. Your job is now complete. Should your railing have any loose dirt on it from the installation, hose it off or wipe with a soft cloth. To remove any stubborn dirt or stains refer to our website.