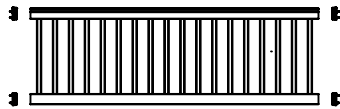




SmartRail Rail Assembly



Kit Includes:
Top & Bottom Rail
Balusters
4 Mounting Brackets
Bracket Mounting S.S. Screws

Tools Needed

Tape Measure	5/32" Drill Bit
Pencil	S2 Square Drive Bit
Cordless Drill	Chop Saw with Carbide Blade

*Using a Dust Mask is recommended

Important Information Before You Start

These installation guidelines will direct you through the process of installing a SmartRail System. Most contractors will find this process very similar, if not identical to the installation of a regular railing system. There are, however, certain areas that you will want to pay closer attention to.

The following pages depict installation methods that have proven successful and are therefore recommended by the manufacturer. Please keep in mind that they may not cover every installation scenario you may encounter.

Go to the web site for additional installation tips.

Since each installation is unique in its performance requirements, the ultimate installation method used is the sole responsibility of the installer.

American Edge Smart Rail Systems disclaims any liability or responsibility for the improper installation of this product. The purchaser is solely responsible for compliance with applicable local codes as to the deck's or railing's intended use. American Edge Smart Rail recommends that all designs be reviewed by a licensed architect, engineer or local building official before installation. American Edge Smart Rail Systems will provide, at the purchaser's request, independent laboratory results to assist in your planning process.

Step 1 Post Preparation

When installing the Smart Rail System with American Edge surface posts (preferred method) follow the instructions included with the post mounts. When using 4x4 wood posts, slide Smart Rail post sleeves over the wood post until flush with the walking surface. (see Figure 1)

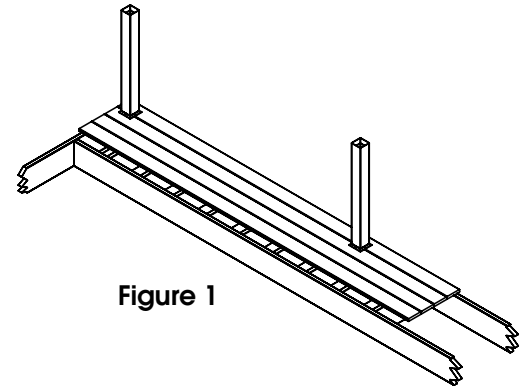
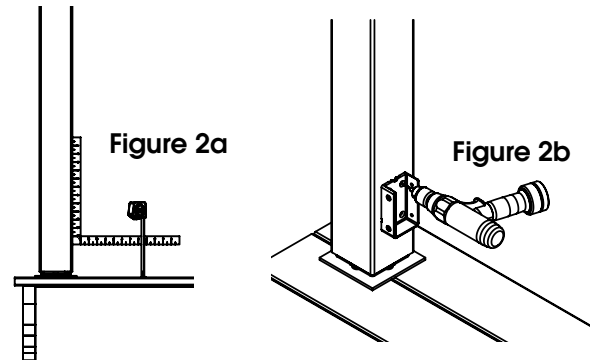


Figure 1

Step 2 Bottom Rail & Bracket Preparation

The proper level of placement of bottom rail is 3-7/8" above the walking surface (see Figure 2a).

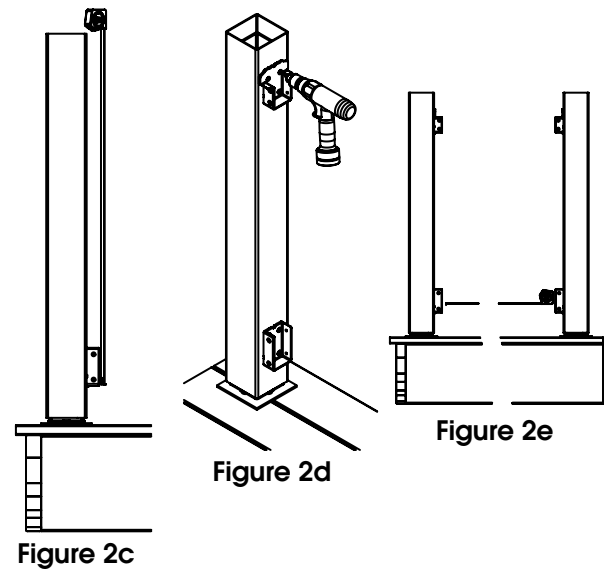
Make a pencil mark at the bottom of the lower rail on the post. Measure down 3/16" below previous mark, then square and center the bottom of the mounting bracket. Mark screw holes in the four corners of the bracket and then pre-drill four 5/32" holes. Screw the bracket base into place with four (4) #12 x 1" S.S. flat head screws (see Figure 2b). Repeat the opposite post.



After the bottom mounting brackets are in place, measure from the bottom of bracket up 32-5/16" for a 36" high rail or 38-5/16" for a 42" high rail and mark the spot with a pencil. This will be the mounting mark for the top of the top bracket. (See Figure 2c).

Square and center the top mounting bracket on mark and pre-drill four 5/32" holes. Screw into place using four (4) #12 x 1" S.S. flat head screws (See Figure 2d) Repeat on opposite post.

Cut bottom rail to length. Measure span between the inside mounting brackets for the bottom rail. Make sure you have equal and maximum amount of spacing between baluster and post on each end. Cut rail squarely with a power miter box or hacksaw (see Figure 2e)



Step 3 Mounting Bottom Rail

With bottom rail cut to length, set rail into bottom rail brackets. Next pre-drill four 5/32" holes into rail, then use four (4) #12 x 1" S.S. flat head screws to fasten (see Figure 3). Repeat the opposite post.

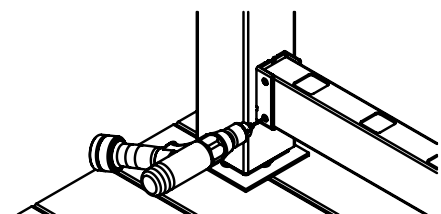


Figure 3

Step 4 Installing Balusters & Top Rail

Measure distance from bracket to bracket where top rail will mount. Cut top rail to length to match bottom rail. If post is plumb, top rail should be the same length as the bottom rail. Make sure distance from post to baluster is the same both top and bottom. Place a baluster in each hole. From one end of top rail, begin to insert top of balusters into corresponding pocket holes (see Figure 4a).

Once all balusters are in place, the top rail will rest in the mounting bracket. Pre-drill four 5/32" holes into rail. Use four (4) #12 x 1" S.S. flat head screws to fasten (see Figure 4b). Repeat the opposite post. Snap all four mounting bracket covers into place if applicable (see Figure 4c).

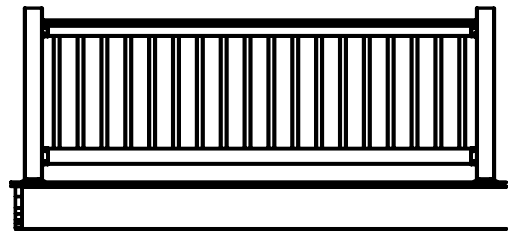


Figure 4a

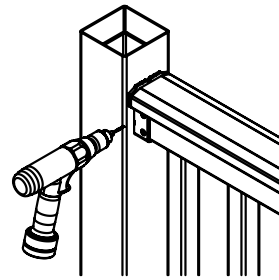


Figure 4b

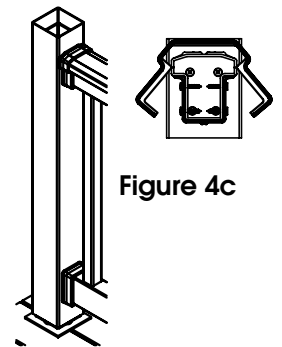


Figure 4c

Step 5 Cutting Post Sleeve To Height

After your railing is installed, you may need to trim the top of the post sleeve before installing post caps. We recommend measuring up 2-1/2" to 3-1/2" from top of the mounting bracket trim cover and making a pencil mark prior to cutting. Note: Finished post height may be adjusted for personal preference and appearance. Once all marks are satisfactory, cut the sleeve using a hand or power saw. (Be sure to cut the top of the post square) You are now ready to install your post cap and base trim (see Figure 5). Apply a small amount of silicone caulk to the inside lip of the cap and mount in place.

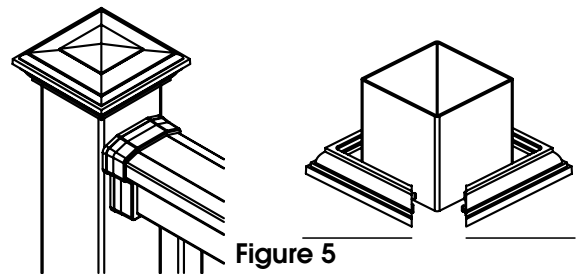


Figure 5

Step 6 Clean up

It is recommended that you wash your SmartRail System periodically to remove grease, dirt and debris. Use a liquid soap such as dish or car wash detergent in combination with a garden hose and towel. **AVOID USING CLEANERS CONTAINING ABRASIVES, WHICH WILL DULL THE SURFACE OF THE SMARTRAIL SYSTEM.**