



PRE-ASSEMBLED CLASSIC COMPOSITE RAILING INSTALLATION INSTRUCTIONS

Tools and Items Needed

- Drill/power screwdriver
- Carriage bolts
- Hammer
- Miter or circular saw with carbide tip blade
- Clear exterior construction adhesive
- Marked speed square
- Tape measure
- Carpenter's level
- Carpenter's pencil
- Adjustable wrench or socket wrench for bolts, etc.
- Safety glasses/goggles
- #1 and #2 square head drill bits
- 1/4" drill bit
- Rubber mallet

For 6' or 8' On-Center Classic Style Line Railing:

One line rail kit (fig. 1a), which contains:

- 1 - Pre-assembled panel
- 1 - Support block for 6' rail and (2) for 8' rail
- 1 - Classic line rail bracket kit, which contains:
 - 4 - Brackets
 - 4 - Bracket covers
 - Screws

Sold Separately:

- 1 - 40" Post sleeve with trim for each railing section (48" post is needed for 42" rail)
 - 1 - Post cap for each post sleeve
 - 1 - 40" Post sleeve with trim to end the railing run (48" post is needed for 42" rail)
- Post sleeve, post cap and trim are not included in rail kit.*

Line Railing Installation Instructions

Prior to construction, check with your local regulatory agency for special code requirements in your area.

Structural support should come from either the continuation of deck support posts that extend up through the deck floor, railing posts that are bolted to the inside of the rim/outer joists or structural post mounts. The post spacing will be less for angled rail applications. Always measure prior to securing the posts when installing angled rail sections. Install railing posts before deck boards are fastened to the joists.

The railing comes pre-routed for balusters. Pre-drilling all other screw holes is essential for successful rail installation. Do not over-tighten screws. **Read instructions completely to get an understanding of how the product goes together and how each piece affects the others.**

Step 1 Determine the number of railing posts needed for your deck. Post spacing is either 6' on-center or 8' on-center depending on the rail length chosen. Example: A 12' x 16' deck attached to a building with a 4' access opening on one side will require a total of eight posts (fig. 2).

Step 2 Install railing posts prior to installing deck boards. Cedar or pressure-treated pine 4x4 railing posts or a post mount provides the structural strength for the railing. The length of each post is determined by the total of the joist width (typically 7-1/4") + decking thickness (1") + railing height (36") + spacing for post cap (2") = 46-1/4". **Important: Do not notch the 4x4 railing posts. Notching will reduce the strength of the post and could result in railing collapse or failure (fig. 3).** Use structural post mounts for installation on concrete.

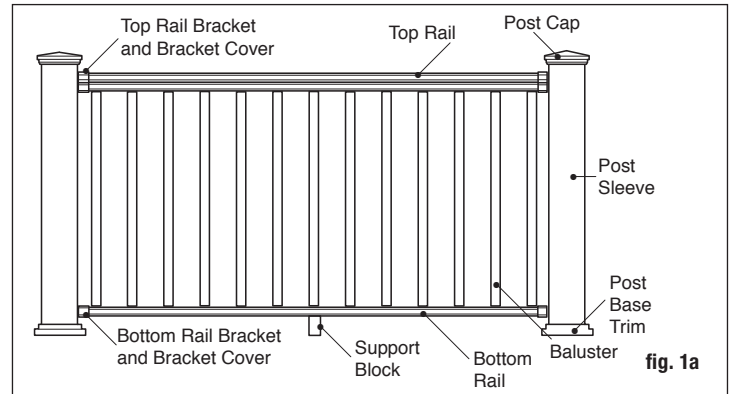


fig. 1a

Classic Style Railing

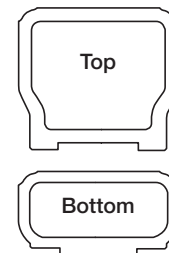


fig. 1b

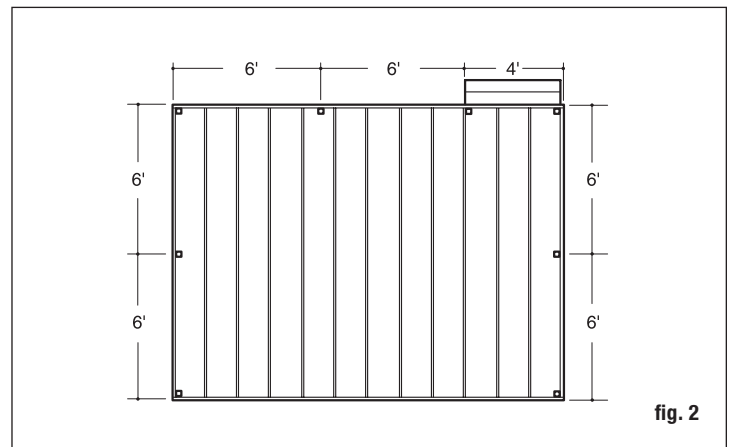


fig. 2

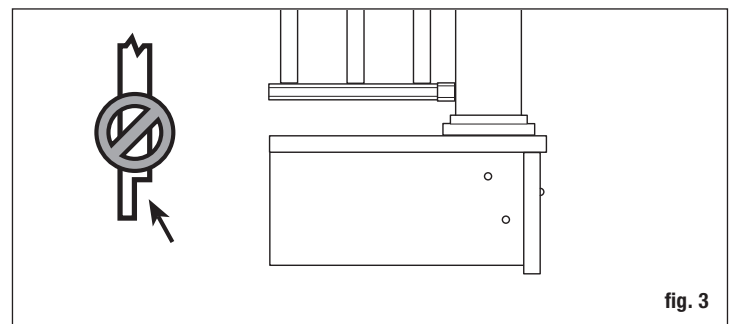


fig. 3

Step 3 Position, plumb with a level, and clamp the railing post on the interior face of the joist. Plumb again. The 4x4 railing post should be bolted to the inside of the joist using two 1/2" x 6" galvanized carriage bolts. Corner posts use a third carriage bolt inserted through the adjacent joist (fig. 3).

Step 4 Install decking; notch deck boards to fit around the 4x4 railing posts. Allow 1/4" space between the deck boards and any permanent structure or post. Additional blocking may be necessary on the 4x4 for fastening deck boards.

Step 5 Trim 4x4 post sleeves to length. Post sleeves should be a minimum of 2" longer than the railing height (fig. 4). Example: For a 36" high railing, trim post sleeve to a minimum of 38", can be left longer if desired. Slide a trimmed post sleeve over each 4x4 railing post or post mount. Post sleeve should slide easily over the post. DO NOT FORCE post sleeve onto post. Twisted or crooked 4x4s should be replaced. Slide a post base trim (optional) over each post sleeve for a finished look. *Note: It is recommended to install the post base trim prior to installing the bottom rail. However, the two-piece design does allow the installer to add the post base trim after the rail has been installed. To install, apply a thin line of clear exterior construction adhesive to the inside of the post trim, where it will contact the post sleeve, and snap into place around the base of the post sleeve.*

Step 6 Measure the distance between installed post sleeves to determine the length of the top and bottom rails. Place the panel in position next to the posts and adjust so the distance between the first baluster and post is greater than 2" and equal on both ends (refer to fig. 5). Mark and cut the top and bottom rails to length.

Step 7 Find the center of the underside of the bottom rail and attach the baluster connector included with the support block using the screw provided. Check building code requirements for the maximum spacing between deck surface and bottom of rail (sweep); we recommend 3" but it can be less if desired. If necessary, trim the support block to the determined height (fig. 6). In order to not span more than the max allowable, the bottom rail must be supported every 3' maximum. **Drill two 1/4" drain holes through the bottom of the rail to prevent trapping water. Center drain holes between two baluster locations as baluster can block the pathway and stop water from properly draining.**

Step 8 Place the line rail bracket covers and line brackets on the ends of top and bottom rails. Install the support block and prop the panel between the posts using blocks cut to size. Check the rail for level. Using the line brackets as a guide, mark the screw positions on the post sleeve and rail on both ends. Pre-drill 1/8" pilot holes through the post sleeve and rail. Attach the line bracket to the post sleeve using the #8-15 x 2" - #2 square drive pan head screws and then attach line bracket to rail using #10-16 x 3/4" - #2 square drive pan head self-drilling screws.

Step 9 Slide the rail bracket covers over the rail brackets and snap into place.

Step 10 Apply a thin line of clear exterior construction adhesive to the inside rim of a post cap and place firmly on the post. Repeat for each post.

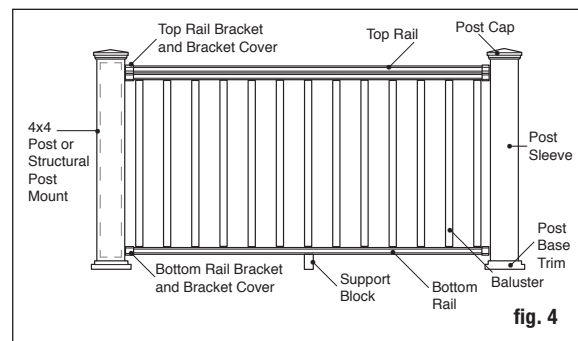


fig. 4

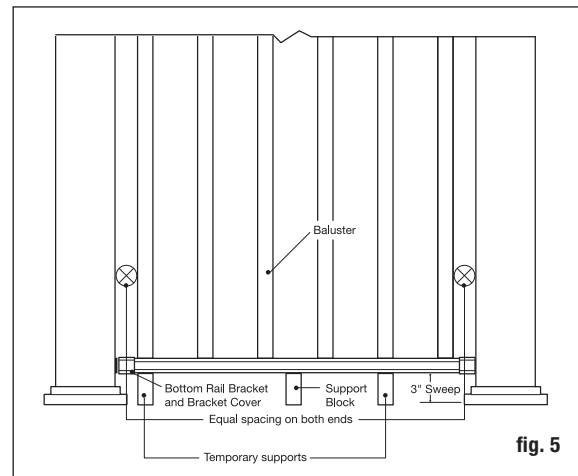


fig. 5

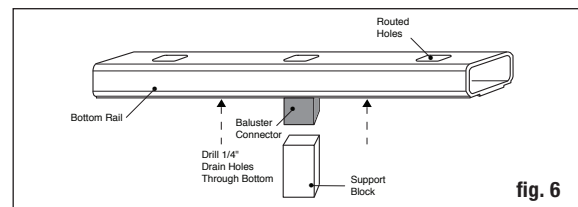


fig. 6

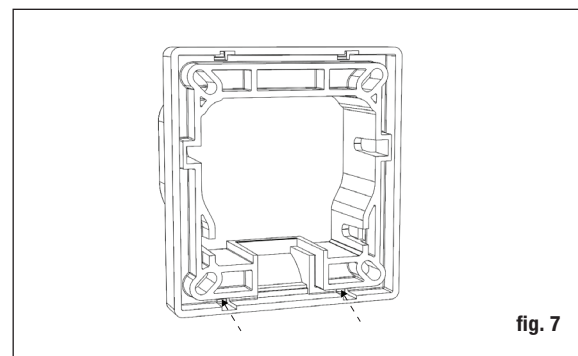


fig. 7

Tip: To separate the bracket cover from the bracket prior to installation, use a small flat head screwdriver to unlatch the lower tabs.

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