

**Note 1:** PermaRail Kit includes: top rail (Savannah or Standard), top wood insert, bottom rail, bottom wood insert, support block, touch-up paint, installation kit and all screws needed.

**Note 2:** Top rail height: 36", 39", 42" (consult your local building codes)

- Add height of bottom rail to height of top rail - 3-3/8" (bottom rail) + 1-1/4" (top rail) = 4-5/8" height.
- What distance do you want the bottom rail off of the floor? (consult local building codes. 3" maximum)
- Add these amounts to the length of the baluster for overall height of the rail.
- Example: 4-5/8" (top & bottom rail) + 3" (height bottom rail is from floor) + 32" balusters = 39-1/8" height of top rail.

**Note 3:** Cut a block the width between balusters and use as a guide.

**Note 4:** Aluminum Baluster Installation: Drill 1/4" hole in top insert and bottom rail and insert. Use construction adhesive on ends and place aluminum baluster in holes.

**Note 5:** If using pre-built sections, measure opening and trim section to fit. Follow instructions 10 through 12 and instructions printed with fastening kit.

#### Preparation Tips:

- (1) Check local building codes for: Rail length maximum (PermaPorch Rail maximum span length = 8' between support(s), rail height (either 36", 39" or 42" minimum), space between balusters (4" maximum), space below bottom rail (usually 3" maximum).
- (2) First install all posts, newels, or columns. If using HB&G PermaNewels, PermaCast Columns or PermaPosts, consult instructions.
- (3) If installing PermaPorch Railing to PermaCast columns, the bases might need to be notched to accept bottom railing.

#### Painting/Caulking Tips:

- (1) Touch-up paint is available as an option, or is included with 8' PermaPorch Railing Kits.
- (2) PermaPorch railing is pre-finished with a tough exterior grade coating that is warranted for 10 years against yellowing. When painting is desired, simply coat with an exterior grade oil or latex paint, following manufacturers instruction. (Do not use dark colors (dark colors are considered any color that falls within the L values of 56 to 0). L is a measure of lightness of an object, and ranges from 0 (black) to 100 (white).
- (3) Caulk ends where PVC railing meets support. Use exterior grade flexible caulk.



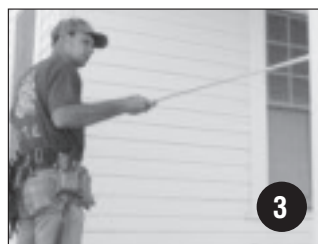
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# PermaPorch Railing Installation Instructions

- (1) PermaPorch Railing can be purchased in kits, by individual piece or preassembled. Each installation must have: top rail, top rail insert, balusters, bottom rail, bottom rail insert, fastening kit and support block. Balusters are precision trimmed in lengths of 32" or 36". See Note #2 below for suggested top rail heights.



Trim balusters to adjust top rail height as needed. See note 2.



Measure opening where PermaPorch Railing is to be installed. Trim top and bottom PVC rails to length. If using PermaCast columns, take measurement from top rail and bottom rail.



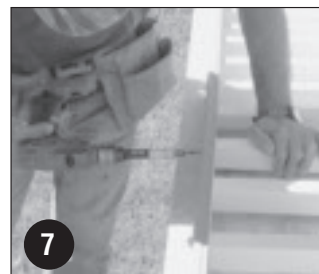
Trim wood inserts 1/4" shorter than PVC rails. (PermaRail fastening kits are 1/8" thick. One for each end). Aluminum inserts should be trimmed to opening measurement.



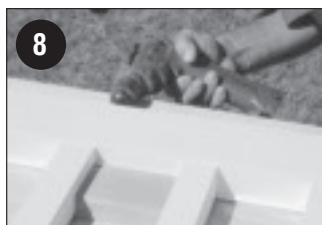
Prime sides and ends of wood inserts with oil-based primer. Attach top and bottom rail fasteners (with included screws) according to instructions included with fasteners.



Measure the center point of top insert and bottom PVC rail and mark.



Place baluster at center point and screw through bottom PVC rail into baluster. Continue attaching baluster to bottom PVC rail.



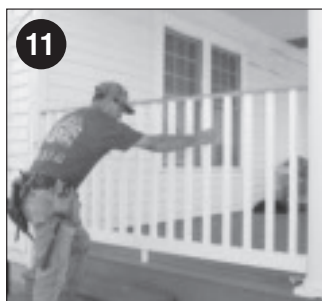
Decide the desired width between balusters (check local building codes, maximum 4" is standard). Attach balusters using #8, 2-1/2 galvanized deck screws, to top insert starting with center baluster. See Note #3 and #4 below.



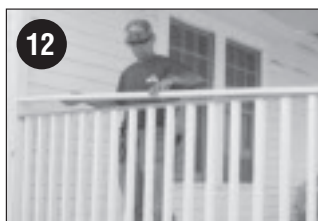
Apply non-acetone based construction adhesive to bottom of wood insert and place into bottom PVC railing.



If length of rail section is over 4', you will need to install support block. Mark center point of rail section under bottom rail and drill 3/4" hole. Apply non-acetone based construction adhesive on end and insert into hole.



If using Savannah top rail, slide over top insert. Place rail section into position and attach with installation brackets.



Standard top rail can be attached using non-acetone based construction adhesive and 1" galvanized deck screws. Savannah top rail does not require adhesive. Caulk ends of rail where rail meets substructure.