



# Installation Instructions

Railing Wood Mount (Bracketed) Post Insert Installation

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# Railing Instructions

## METAL POST INSERT - WOOD INSTALLATION INSTRUCTIONS

### Important

Local Building Codes require that railing systems meet specific performance requirements. Contact your local building official to insure your installation meets or exceeds local requirements.

Please read the entire railing installation instructions prior to actual installation. Performance of the railing system is dependent on the proper installation of the railing components. **Failure to follow the installation instructions will VOID any warranty on the product** and could result in bodily harm or even death. While our products are warranted, this warranty does not cover product installation. If your installation is different than what is shown, please contact the Engineering Services Department for assistance.

Take time and review the parts and packing list. This can save time and money when laying the job out. Check the parts against the job layout to be sure all parts will fit as planned. Job changes or job modifications may require changes to the railing system. Plan all modifications ahead of time to help eliminate any confusion during time of installation.

Any galvanized component, if cut or marred, must be regalvanized to prevent rusting.  
All fasteners must meet local code requirements.

### Tools Needed for Installation

- Chop Saw • Circular Saw • Power Drill • Power Screwdriver • Measuring Tape • Open End Wrench
- Hammer • Channel Locks • Level • Shim stock or washers • String • Pencil

### Metal Post Insert Installation

- 1.) Layout the post locations on the wood joist. Determine the center spacing of the post and mark these locations. The angle bracket on the metal post insert must be secured on both sides. The joist may have to be boxed to provide the structural support for the bracket. Take the measurements for the wood box, cut the lengths required, and position between joist to check fit. **(Do not nail in place)**. Using either the template or the metal insert bracket as a gage, mark the location of the bolt holes.

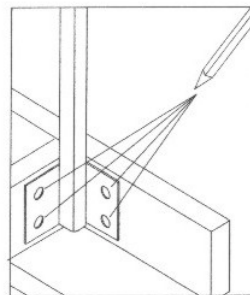


Figure 1

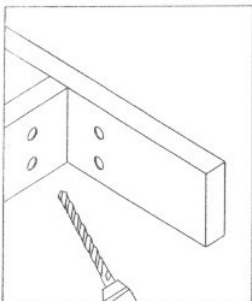


Figure 2

- 2.) Remove the pieces and drill  $\frac{1}{2}$ " diameter holes at the locations.

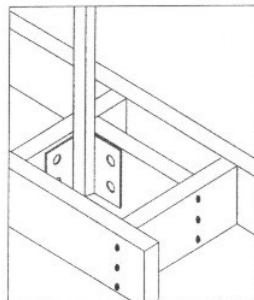
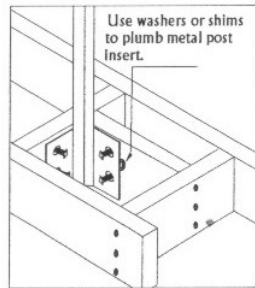


Figure 3

- 3.) Nail the box pieces securely to the wood joist. **The 3/8" bolts may have to be installed in the drilled holes before nailing in place. (Do not tighten).**

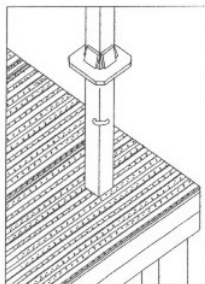
**Figure 4**



- 4.) Plumb and square each post insert before tightening the bolts. If not plumb, use washers or shims to position. Tighten all 4 bolts. Again check to see that the post inserts are plumb and square.

## **Railing Assembly**

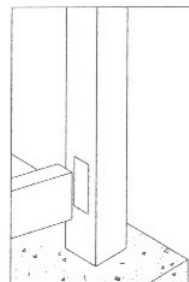
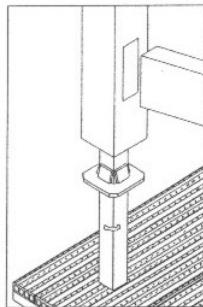
**Figure 5**



- 5.) Slide the metal spacer plate over the 1-1/2" metal tube and down to the weld at the bottom of the tube. Repeat on the adjacent insert.

- 6.) Slide the vinyl post over the insert and spacer plate until bottom is flush with concrete. Be sure to put specified rail insert in place before inserting bottom rail into routed hole on post.

**Figure 7**

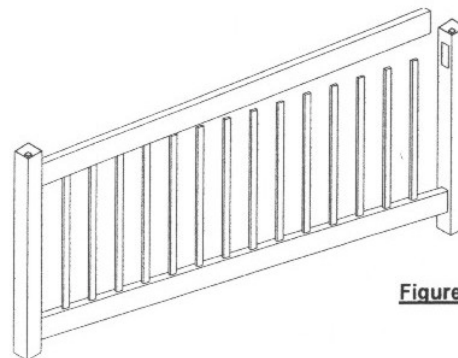


**Figure 6**

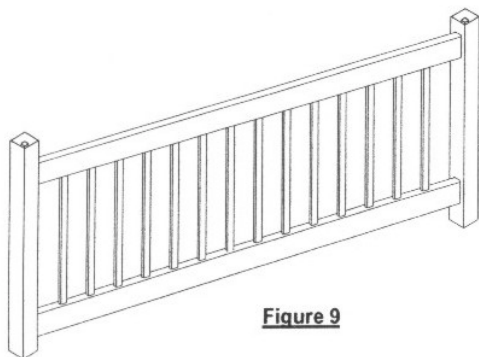
- 7.) On the adjacent insert, slide the vinyl post over the 1-1/2" tube. Insert the end of the bottom rail into the routed hole on the post, then slide the vinyl post over the metal spacer plate.

- 8.) After inserting the pickets/spindles into routed holes in the bottom rail, insert the upper rail into the routed hole at the top of one of the post. Starting with the closest picket/spindle slide the top into the first routed hole in the top rail. Continue until all pickets have been inserted.

**NOTE:** Angling the picket during placement will aid its insertion.



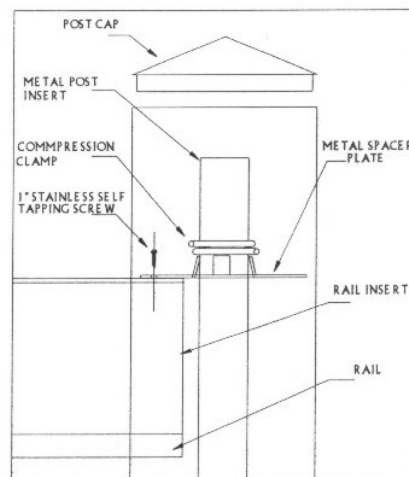
**Figure 8**



**Figure 9**

- 9.) Insert the top rail into the routed hole in the post.

- 10.) Slide the metal spacer plate over the post insert until flush with top rail. Install the adjacent railing section using the same procedure. Using the 1" stainless steel self-drilling screw, attach the metal spacer plate to the top rail by drilling through the metal spacer plate and the top of the rail. Slide the compression ring over the rail insert and down to the metal plate.



**Figure 10**

- 11.) Attach post cap using vinyl glue. Clean using a mild biodegradable soap.