

RAILING INSTALLATION INSTRUCTIONS

METAL POST INSERT - CONCRETE 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. It is the responsibility of the contractor to provide a handrail conforming to the requirements of the BNBC/1999/ where required.

Please read the entire railing installation instruction 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 concrete. Determine the center spacing of the post and mark these locations on the concrete. Place the metal post inserts on the post centering lines and mark the fastener hole locations on the concrete.

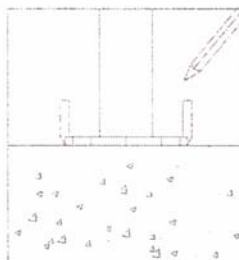


Figure 1

- 2.) Following the recommendations of the fastener manufacturer, remove the metal post insert and drill the holes for the concrete fasteners.

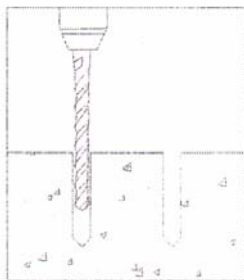


Figure 2

- 3.) Position the metal post insert and check to see if it is plumb. If not plumb, use washers or shims to position.
 - Check to see that the metal post insert does not extend above the vinyl post.

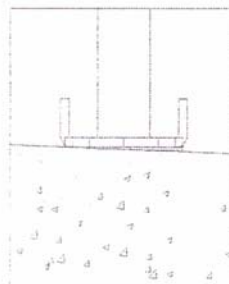
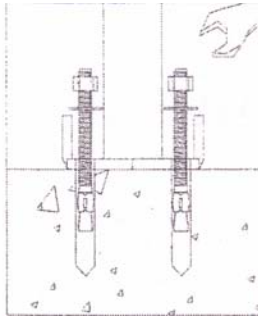


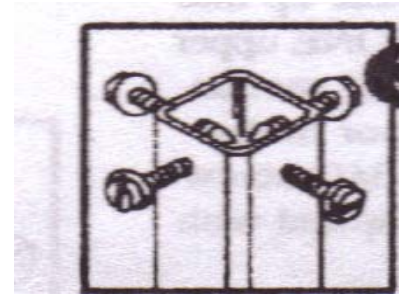
Figure 3

Figure 4



4.) Following the fastener manufacturer's installation procedures, attach the base of the metal post insert to the concrete floor. Again, check to see that the metal post insert is plumb and square.

Figure 5



5.) Insert the 4 leveling screws (located in plastic bag under the base of the steel post mount) in the 4 pre-drilled holes at top of the post mount. Position a level against one side of the post mounts square base and a top screw (shown in Figure 5). Using a wrench, turn the screw until it becomes plumb with the base. Then plumb a second screw on an adjacent side. Repeat this until all 4 screws are plumb with the base.

6.) Slide the Vinyl post over the metal post mount until bottom of post is flush with concrete or wood floor (as shown in Figure 6). Be sure to put the specified rail insert in place inside the top and bottom rails before putting the rails in place to secure to the post.

Railing Assembly

7.) Assemble the rail section. Place the pickets in the bottom rail, then angle the top rail and maneuver each picket in place. (As shown in Figure 7).

8.) After all pickets are in place and top rail is placed over all pickets, slide the rail brackets on each end of the rails. Assure that the back (flat side) of brackets are toward the rail ends. At this time the brackets should be secured to the rails with the #8 x 3/4" stainless screws (as shown in Figure 8) to lock the metal insert inside the rails. Install the rail section between the Post making sure the bottom rail is no more than 2" from the deck surface.

NOTE: Place 1-15/16" wood block support under the bottom rail on each end to locate the proper bracket height. Mark and pre-drill holes in the post for the bottom rail. Attach and secure the brackets to

Figure 6

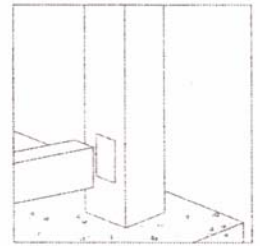


Figure 7

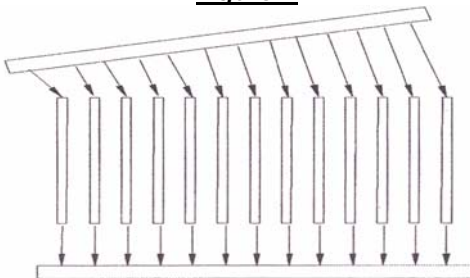


Figure 8

