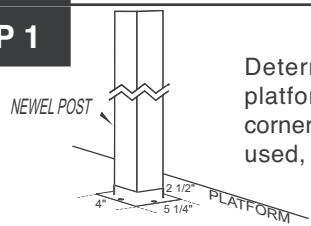


SUMMIT STYLE ALUMINUM RAIL INSTALLATION INSTRUCTIONS

Using "Installation Spindles"

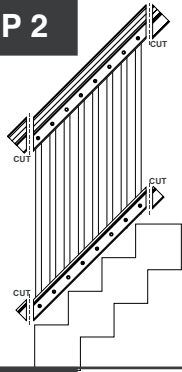
TOOLS Carpenter's Level, Hacksaw, Tape Measure, Phillips Head Screwdriver, Drill with 9/64th drill bit, Hex Head Driver, and Rubber Mallet

STEP 1



Determine location of newel posts, and install with edge of flange at least 2 1/2" from edge of platform. Mark holes in mounting surface. Drill holes in flange through 4 deep recesses in bottom corners of flange. Use at least 1/4" drill bit. Drill holes to proper size for installation fitting being used, flange should be aligned with the 4" wide side in line with the rail.

STEP 2

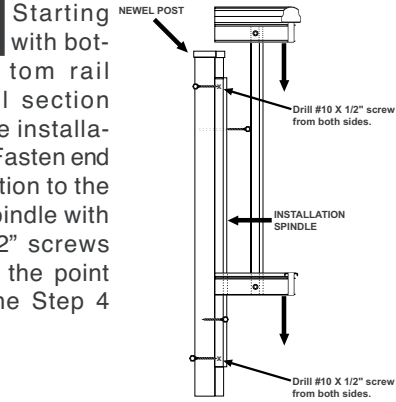


Mark and cut railing, if necessary, with a hacksaw to fit snugly between newel posts. Note that for steps, ends must be cut at an angle. It is best to Cut **EQUAL** amounts from each end of rail.

STEP 3

- (1) Measure up from the platform 36", after installing first post.
- (2) Measure down from that mark 1 1/8" and make a new mark at the center of the post.
- (3) Locate Installation Spindle top at this point and drive the #10 X 2" screw through the top and bottom hole of the Installation Spindle to fasten to the Newel Post. Be sure it is level in center of post.
- (4) Installation on platforms above the first floor we recommend that you drill the necessary holes to put a third screw (furnished) half way between the top and bottom of the installation spindle for extra strength.

STEP 4



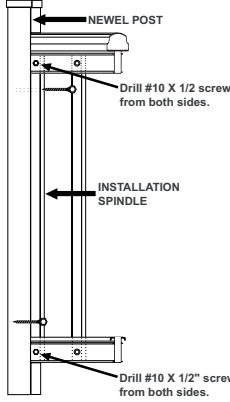
Starting with bottom rail slide the rail section down over the installation spindle. Fasten end of the rail section to the installation spindle with the #10 X 1/2" screws furnished at the point marked on the Step 4 Drawing.

STEP 5

Each railing section 6' and longer comes with at least one extra long spindle that extends to the floor in order to provide added strength. Spindle flanges are available to decorate and anchor this where it meets the floor, but are not necessary. These Long Spindles are usually extra long and must be cut for most installations.

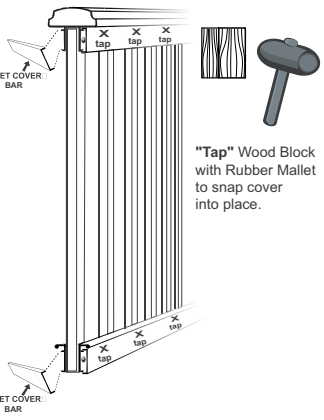
STEP 6

Position the railing on the spindle so that the railing rests on the top of the spindle fitting on the post. Next, using the #10 X 1/2" screws, drive a screw through the cross bars and the spindle fitting to secure the railing. Do this on each side of the railing, top and bottom.



STEP 7

Installing Rivet Covers
Using the track on the cross bars (top and bottom), position the Rivet Covers and snap into place to cover rivets and screws. It may be necessary to use a rubber mallet or piece of wood to get it to "snap" on.



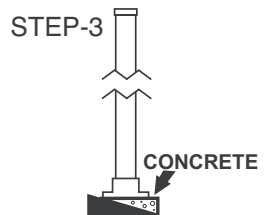
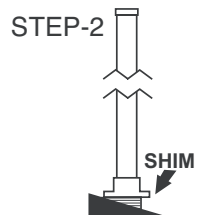
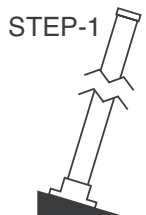
UNUSUAL SITUATIONS

- LEANING

When Installing on ramps or slight slopes where the post with the welded flange is crooked when installed

Install with shims on one side to bring post to correct angle.

When finished with installation, pack area under flange completely with concrete and allow to set.



STEP 5

When installing railing on steps, we recommend a 43" or 48" post with welded flange. If necessary the post can be cut down by removing post cap, and cutting to desired length from the top. Post cap is easily placed back on the post by positioning cap and firmly tapping on the top with a rubber mallet.

When installing the posts in-ground or core-drilling, we recommend a 48" post without a flange to allow for approximately 6" or more to go into the ground or cement.

Finished Installation Example

