



Aluminum Railing Installation Guide

TOOLS & MATERIALS NEEDED

TOOLS:

- Hacksaw or metal cutting saw
- Drill
- 5/32" Drill Bit
- Screwdrivers
- Measuring Tape

MATERIALS:

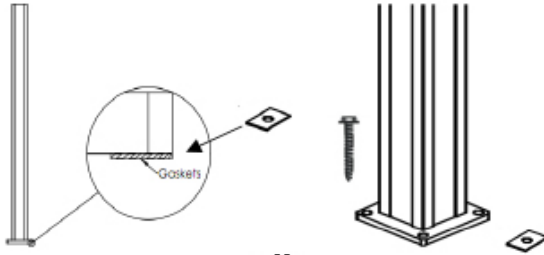
- Post Kits
- Rail Kits
- Brackets
- * Fasteners are included with each component

Straight Railing Installation

Step 1: Measure and locate all posts

1.1 Measure and locate all posts

1.2 Choose the appropriate fasteners to fasten posts according to local building code. Ensure the posts are plumb. Use provided shims to adjust vertically. The internal spacing between posts is 72" or 96" if full sections are used.



Note:

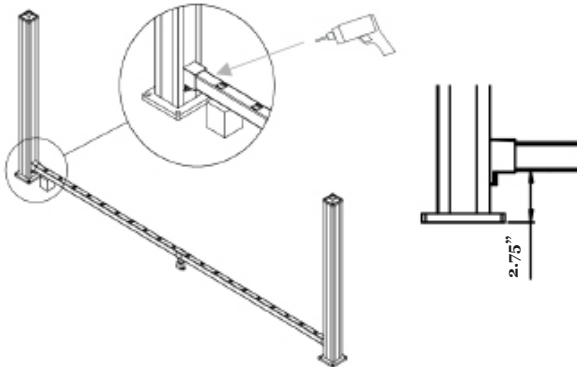
Pre-drill screw holes when installing brackets. Use supplied #10 1" pan head screws for bottom bracket.

Step 2: Install bottom rail and bottom brackets

2.1 Install rail support if required for building code

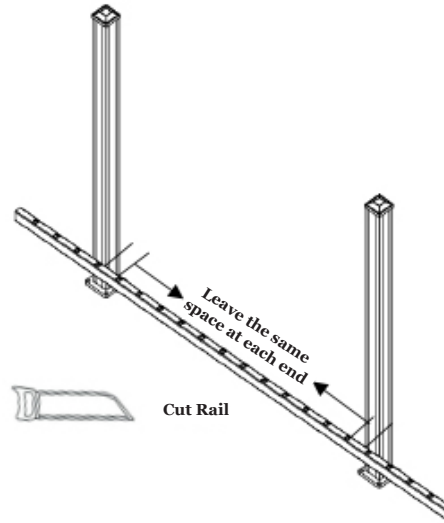
2.2 Locate and install one side of the bottom bracket 2 7/8" from the ground.

2.3 Insert one side of the bottom rail into the installed bottom bracket, insert the other side of the rail into the second bracket then position the bottom rail between posts and secure the second bracket to the post with #10 1" screws



Note:

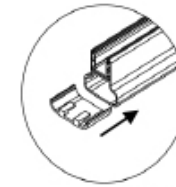
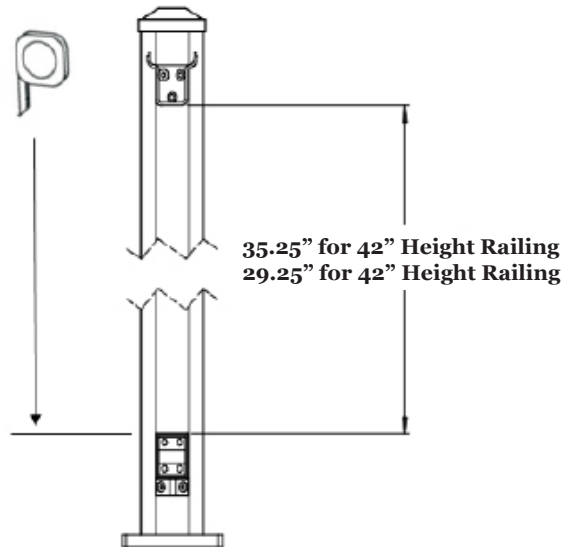
For shorter sections, cut the top rail to fit between the posts minus 5/8" for the brackets depth. For the bottom rail, subtract 5/16" from each end after taking an overall measurement to ensure equal picket spacing.



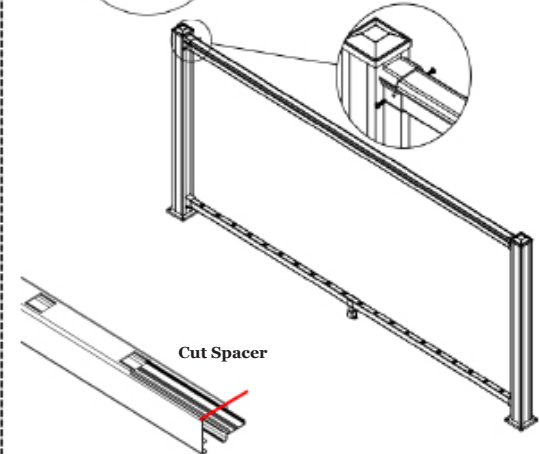
Step 3: Install top rail and top brackets

3.1 Position the top brackets measuring from the top of the bottom bracket to the bottom of the top bracket using the measurements below.

3.2 Screw top brackets into post using (3) #10-1" pan head self-drilling screws.



3.3 Insert the bracket cover into the ends of rail.
3.4 Set the top rail into the top bracket. Screw top brackets to rail using (2) #8 3/4" pan head self-drilling screws.



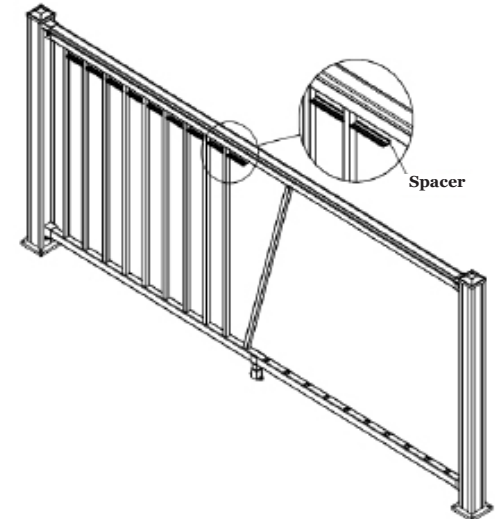
Step 4: Install pickets and spacers

Note:

The size of the spacer for each rail end is different. (Special round labels will be used to identify the end spacer). Cut end spacers to fit the rails if necessary. To ensure equal picket spacing at each post, cut first and last spacers to equal lengths.

4.1 Starting from either post but skipping the first spacer, insert pickets into top and bottom rail and snap in spacers one by one as shown below. **Do not snap in spacers for the last 4 pickets. Insert last 4 pickets as a group and adjust the picket distance, then snap in the spacers.**

4.2 Make sure all pickets are plumb, install end spacers.



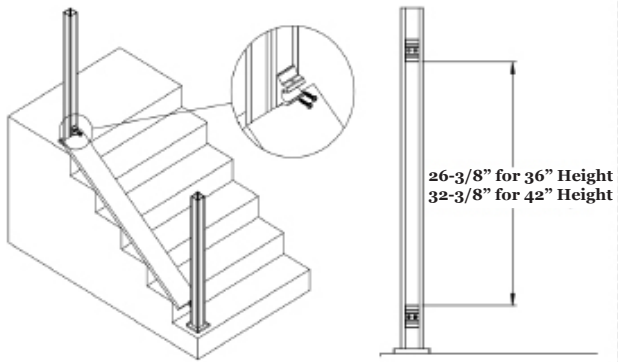


Aluminum Railing Installation Guide

Stair Railing Installation

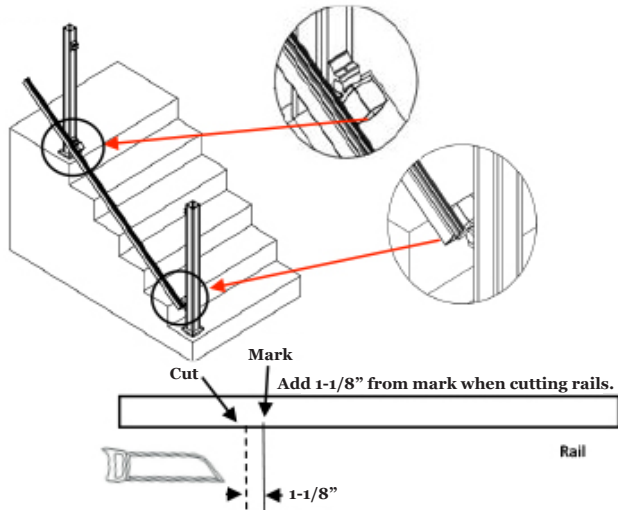
Step 1: Locate and install stair rail post and install stair bracket base.

- 1.1 Measure and locate all posts
- 1.2 Choose the appropriate fasteners to fasten posts according to local building code. Ensure the posts are plumb. Use provided shims to adjust vertically.
- 1.3 Use max 1" thick wood board to position bottom stair bracket base. Secure bracket base to post using (2) #10 1" pan head self-drilling screws.
- 1.4 Position the top brackets measuring from the top of the bottom bracket to the bottom of the top bracket using the measurements below.



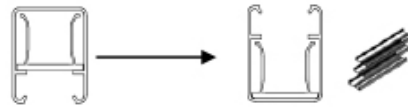
Step 2: Cut and install top and bottom rail.

- 2.1 Insert rail into lower bracket and mark rail to the edge of upper bracket. Add 1-1/8" to measurement and make cut. When cutting the bottom rail, make sure to leave the same amount of space at each end to ensure equal picket spacing.



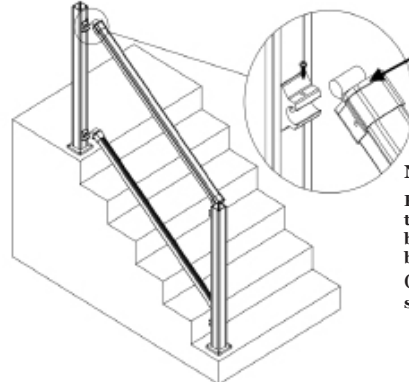
IMPORTANT NOTICE:

When installing bottom rail of a stair railing section, remove the vinyl insert and install in opposite direction as shown:



Straight Railing Installation Stair Railing Installation

- 2.1 Insert top rail into top stair bracket and slide base bracket slot. Align the top bracket and base, then screw the top bracket to base using (1) #8 3/4" pan head self-drilling screws.



Note:

Push the top rail into the bottom of top stair bracket, screw top brackets to rail using (2) #8 3/4" pan head self-driving screws.

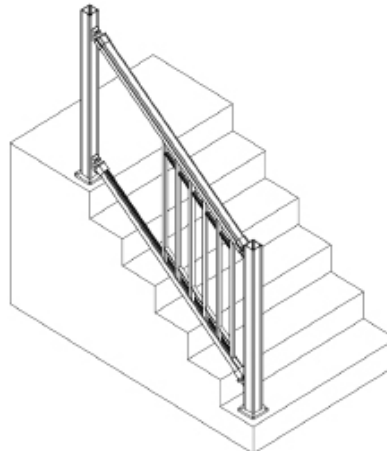
Step 3: Install pickets and spacers

Note:

The size of the spacer for each rail end is different. (Special round labels will be used to identify the end spacer). Cut end spacers to fit the rails if necessary. To ensure equal picket spacing at each post, cut first and last spacers to equal lengths.

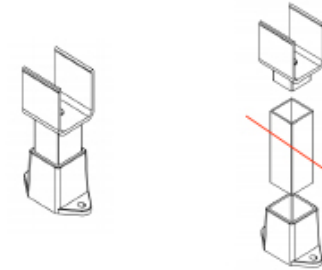
- 3.1 Starting from either post but skipping the first spacer, insert pickets into top and bottom rail and snap in spacers one by one as shown below. **Do not snap in spacers for the last 4 pickets. Insert last 4 pickets as a group and adjust the picket distance, then snap in the spacers.**

- 3.2 Make sure all pickets are plumb, install end spacers.



Adjustable Bottom Rail Support

Adjustable bottom rail support consists of 3 parts, cut middle part to adjust height if necessary.



Install Post Cap & Post Trim

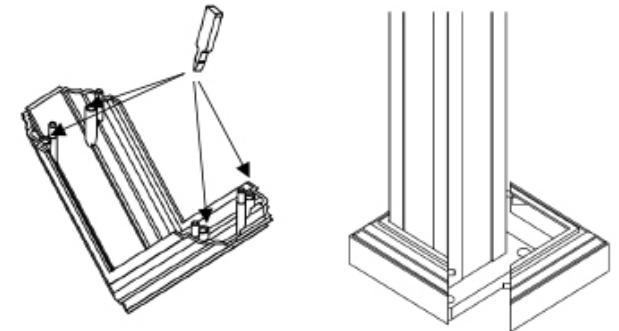
Install post cap and post trim after all other components are installed.

Post cap locks into post, use a rubber mallet or similar tool until tight

Install the post trim as following:

Apply glue to holes of post trim (do not overflow)

Assemble 2 sides of post trim and press together for approximately 6 seconds.



ICC-ES AC273
Compliant

CODE
COMPLIANCE



Intertek
CCRR 0277

