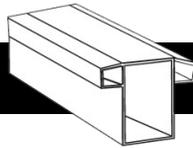


Trustin Stair



Step-By-Step Instructions for Installing Your Pro-Z Stair Railing System



IMPORTANT: Before beginning, make sure all posts are plumb. If using post base trim, be sure to install prior to railing installation. **A 48" tall post is recommended at the end of stair run. 54" for 42" stair rail height.**

IMPORTANT: The Pro-Z Stair Brackets included in this kit are designed to accommodate a 34° down angle stair run **ONLY**. 7-1/2" rise, 11" run. If you require more than a 34° down angle, use the included Z-Wedge Adaptor. This adaptor will increase your bracket angle 5°, allowing for a maximum downward stair angle of 39°.

NOTE: This Stair Kit is not compatible on stairs with a downward angle LESS than 32°. This rail is not handicap ramp compliant.

NOTE: This Stair Kit is not compatible on stairs with a downward angle GREATER than 40°.

If your stair angle is less than 32°, or greater than 40°, then you need to purchase a custom fabricated stair kit along with adjustable stair rail brackets.

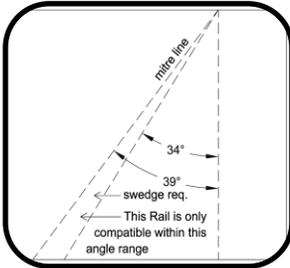
Top & Bottom Rail: The top and bottom rails in this stair kit are routed with the same spindle hole placements. Yet one end will be longer than the other. Look for labels denoting which rail is the top and which is the bottom. **Top rail;** the longer section will be at the top of your stair run. **Bottom rail;** the longer section will be at the bottom of your stair run.



Step 1: Lay the bottom rail as close to the treads as possible and up against the posts. While maintaining either a 34° or 39° downward angle. Keep the spacing between the first spindle hole and post equal on either end. Clamp rail to post.



Step 2: Place a spindle in the first and last spindle hole, set top rail and plumb spindles. Clamp top rail to post, using a pencil, draw miter lines on top and bottom rail.

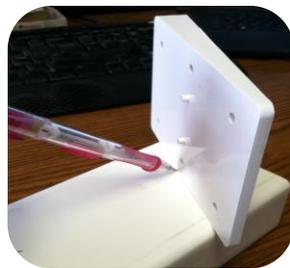


Step 3: Draw a line perpendicular to the edge of the rail at the point of your miter line to determine your stair angle. Any angle beyond 34-35° requires Z-Wedge.

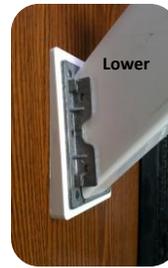


Step 4: If Z-Wedge is not required; subtract 1/8" per side (1/4" total) to allow space for the bracket base plates. Miter cut both the top and bottom rails, including aluminum reinforcement.

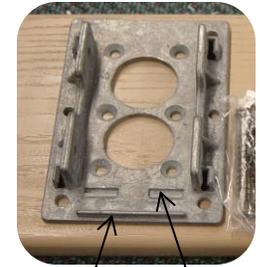
If Z-Wedge is required, skip to step 5.



Step 5: If Z-Wedge is required. Align **BACK** edge of Z-Wedge with your miter line, and draw new miter line. **Note:** Make sure to place Z-Wedge in proper alignment before marking miter line. On lower section of both top and bottom stair rail, the thicker end of the Z-Wedge faces down. On the upper section of both top and bottom stair rail, the thicker end of the Z-Wedge faces up. Now subtract 1/8" per side (1/4" total) from this new line, to allow space for the bracket base plate. Miter cut both the top and bottom rails, including aluminum reinforcement.



Step 6: Keeping bottom rail as close to stair treads as possible, and maintaining desired angle, slide each bracket into position, with Z-Wedge if needed. Rail should rest on lower lip of base plate. Mark the position of the base plate or Z-Wedge on post and remove bottom rail.

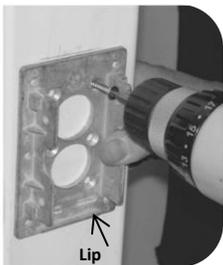


Lower Lip

If bracket has upper double tabs (not shown), these are for level rails. Break off before using for Stair.



Bottom Rail Bracket Attachment

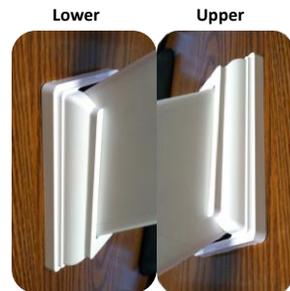


Lip



Step 7: NO Z-Wedge: Using the base plate as a template mark locations of the 6 **inside** holes and pre-drill with 1/8" bit. Use 6 outer holes for adjustable post mount. Attach both base plates using 6-2" stainless steel screws(provided) per bracket. Lip must be at bottom of base plate.

Step 7: With Z-Wedge: Using the Z-Wedge as a template, mark locations of the 6 holes and pre-drill for easier application. Attach both Z-Wedges and base plates using 6-2" stainless steel screws(provided) per bracket. Z-Wedges use outer holes on brackets. Make sure Z-Wedges are oriented correctly. See Step 5.



Lower

Upper

Lower w/Z-Wedge Upper w/Z-wedge

Step 8: Slide bracket covers onto each end of rail. Bottom rail stair bracket covers are notched. On the lower section of stair run, the notch must face up/north. On the upper section of the stair run, this notch must face down/south. Place rail into position resting on the base plate bottom lip. Pre-drill and secure rail to each base plate using (4) 1" stainless steel screws(provided). **IMPORTANT:** Skipping this step will void the warranty! Slide bracket cover into position and press firmly into place. Or tap into place with rubber mallet.



Step 9: Starting at one end, begin inserting spindles into holes in bottom rail

Installation Instructions Continued on Other Side of Sheet.

Trustin Stair



Step-By-Step Instructions for Installing Your Pro-Z Stair Railing System



Step 11: With spindles installed in bottom rail, place top rail into position by feeding rail down onto spindles.



Upper Trustin Stair Bracket & Cover
Trustin top rail base plates are the same for the upper and the lower brackets, but the bracket covers are not! The bracket cover for the lower bracket is taller than the upper bracket cover. In the upcoming steps, make sure base plates are put into position as shown above. See images after step 12.



Lower Trustin Stair Bracket & Cover



Step 12: With top rail resting on spindles, slide the bracket base plate into position; with Z-Wedge if needed, making sure the rail is seated in bracket correctly. Raise rail 1/4" from resting position or to desired height, allowing spindles to float. Check local building codes for correct stair rail height requirements. Mark bracket location on post. Repeat for other bracket. Remove rail and repeat Step 7.



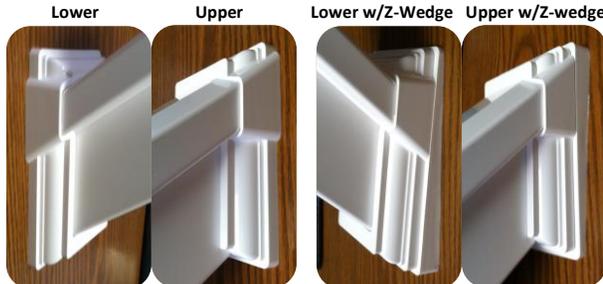
Upper rail section must rest on stair bracket as shown for bracket cover to fit properly.



Lower rail section must rest on stair bracket as shown for bracket cover to fit properly.



Step 13: Slide bracket covers onto both ends of top rail. Remember, lower rail bracket cover is taller than upper rail bracket cover. Place top rail into position by feeding rail down onto spindles and resting rail into installed bracket base plates. Pre-drill and secure rail to each base plate using (4) 1" stainless steel screws. See step 8.



Step 14: Now slide bracket covers onto bracket base plates and push into position, or tap into place with rubber mallet. This step will be difficult if rail is not seated in bracket base plate correctly. Also rail angles beyond 34° & 39° will not allow cover to sit correctly. See IMPORTANT notes on first page.



Success: Your Pro-Z Stair Railing is now complete. To keep your railing clean, simply spray it down with an ordinary garden hose and mild soap. See cleaning instructions included.



Adaptor Note: Trustin lower stair bracket covers are taller than the additional adaptor accessories shown below. This situation is rare, but does occur. A custom PVC filler piece is required to finish off the installation.

Additional accessories sold separately.



45° Adaptor: Used to attach Pro-Z railing brackets at a 45° horizontal angle to Post. Deduct an additional 3/8" per side from rail in step 4.



22.5° Adaptor: Used to attach Pro-Z railing brackets at a 22.5° horizontal angle to Post. Deduct an additional 3/8" per side from rail in step 4.



8" Column Adaptor: Used to attach Pro-Z railing bracket onto an 8" round column. Deduct an additional 1/4" per side from rail in step 4.

Notes on Adaptors:
4" or longer stainless steel screws are required when using the 45° or 22.5° adaptors (sold separately)
Longer screws required with 8" column adaptor if being used along with Z-Wedge.
NOTE: Trustin lower stair bracket cover is taller than these adaptor pieces. A customer filler piece is required to finish of installation. See above image.

