



# PREMIER/NATURELLE RAILING STAIR KITS INSTALLATION INSTRUCTIONS

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PARA OBTENER INFORMACIÓN SOBRE LA GARANTÍA Y LAS INSTRUCCIONES VAYA A [WWW.BARRETTEOUTDOORLIVING.COM](http://WWW.BARRETTEOUTDOORLIVING.COM)

# PREMIER/NATURELLE RAILING STAIR KITS INSTALLATION INSTRUCTIONS

**\*2 PERSON INSTALLATION RECOMMENDED**

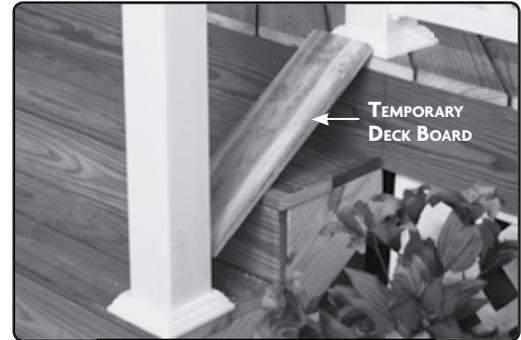
This guide outlines installation methods for installing Premier Railing stair kits in a variety of angles.

It is very important to identify the angle of your stairs, as the installation methods vary depending on what angle the stair is.

Within the following steps, be sure to pay close attention to the placement and utilization of the "stair angle template" to ensure you mark and cut your rails correctly, and note orientation of all brackets and railing in the supporting images.

## STEP 1.

Closely follow Post Install Kit installation instructions (or sleeve existing wood 4x4 with Post Jacket)



## STEP 2.

Temporarily secure a deck board (5/4") to your stair treads to determine the spacing between the nose of the stairs and your bottom rail.

## STEP 3.

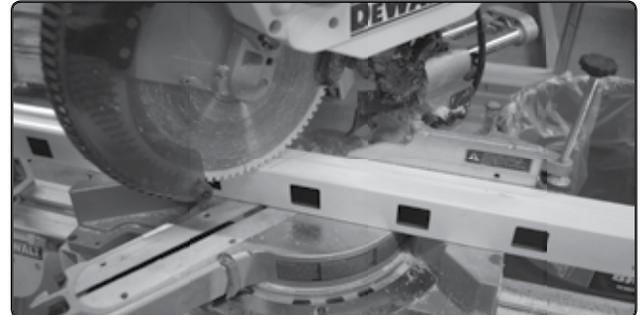
Place bottom rail on board and center the routes between posts making sure to leave equal distance from baluster route to post on both top and bottom. Mark the bottom rail using inside edge of posts.



## STEP 4.

Measure angle – take rail to chop saw and measure angle. Set saw and record angle. (NOTE: Do not cut here. This is for acquiring measurements.)

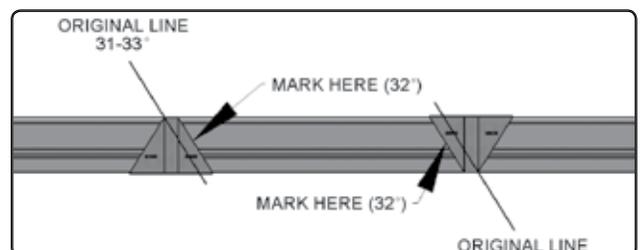
- If angle is 31-33°, then go to Step 5
- If angle is <math><31^\circ</math>, then skip Step 5 and proceed to Step 6
- If angle is >math>>33^\circ</math>, then skip Step 5 and 6, and proceed to Step 7



## STEP 5.

For angles 31-33°

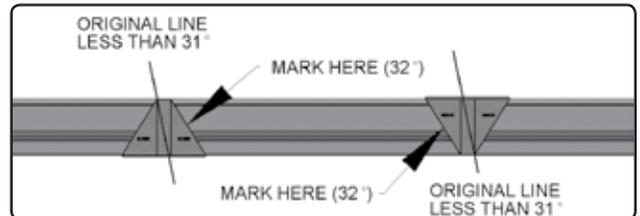
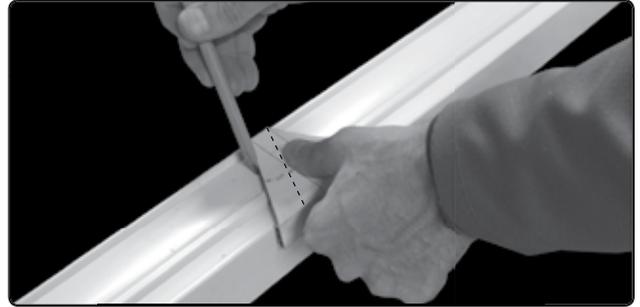
- From the original line created by the post, mark another line 11/16" on the inside of the bottom rail (closer to the baluster routes). This is accomplished by using the angle template. This additional removal of material will allow for bracket clearance when the rail is installed. For this 31-33° angle, the new line will be parallel to the previously drawn line.
- Chop saw should already be set at 32°
- Cut the bottom rail on the new mark at a 32°  
**(NOTE: If your cut will result in a baluster route hole being cut through, repeat Step 3 and add/subtract a baluster route hole, re-center, mark and proceed to Step 4.)**
- Go to Step 8.



## STEP 6.

For angles 26-31°

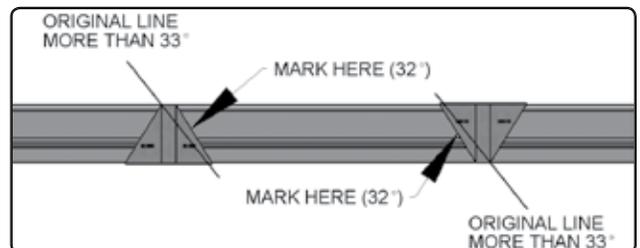
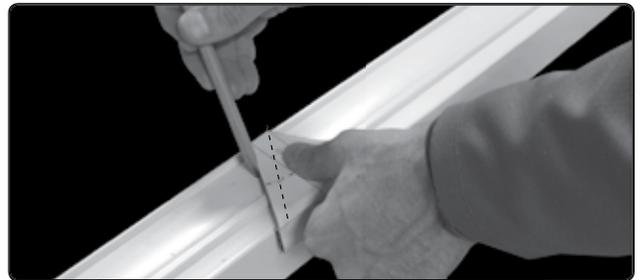
- From the original line created by the post, mark another line 11/16" on the inside of the bottom rail (closer to the baluster routes). This is accomplished by using the angle template. This additional removal of material will allow for bracket clearance when the rail is installed. For this 26-31° angle, the new line will **NOT** be parallel to the previously drawn line.
- Set chop saw at 32°
- Cut the bottom rail on the new mark at a 32°  
**(NOTE: If your cut will result in a baluster route hole being cut through, repeat Step 3 and add/subtract a baluster route hole, re-center, mark and proceed to Step 4.)**
- The rail will not match the angle of the stair, but instead match the inside of the bracket. The outside of the brackets will be cut to the proper angle in Step 11.
- Go to Step 8.



## STEP 7.

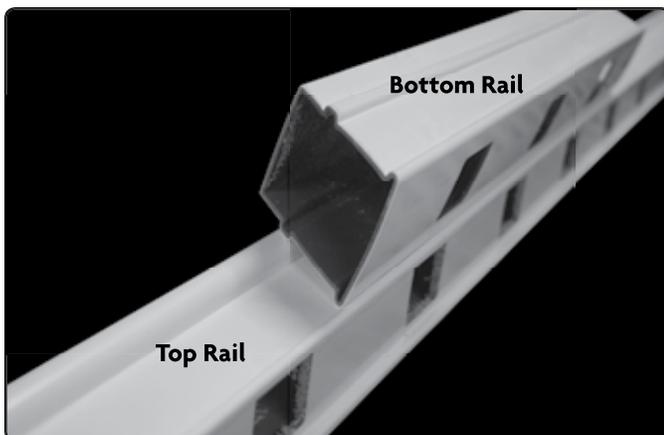
For angles 34-38°

- From the original line created by the post, mark another line 11/16" on the inside of the bottom rail (closer to the baluster routes). This is accomplished by using the angle template. This additional removal of material will allow for bracket clearance when the rail is installed. For this 26-31° angle, the new line will **NOT** be parallel to the previously drawn line.
- Set chop saw at 32°
- Cut the bottom rail on the new mark at a 32°  
**(NOTE: If your cut will result in a baluster route hole being cut through, repeat Step 3 and add/subtract a baluster route hole, re-center, mark and proceed to Step 4.)**
- The rail will not match the angle of the stair, but instead match the inside of the bracket. The outside of the brackets will be cut to the proper angle in Step 11.
- Go to Step 8.



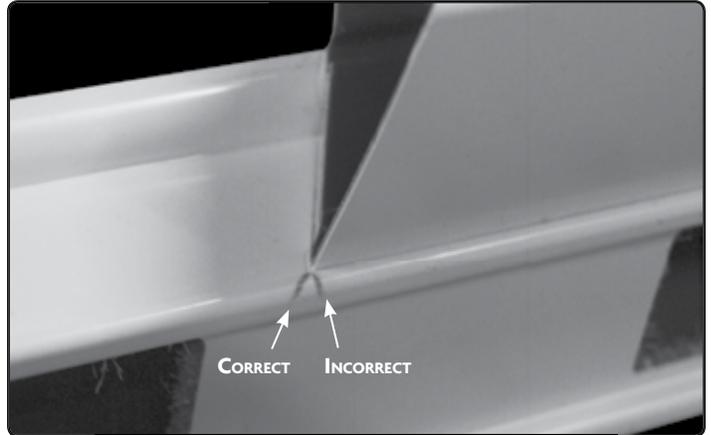
## STEP 8.

Place top rail flat on table as shown. Lay the cut bottom rail on top of the top rail, with the routed holes facing in the same direction. Line up the routes.

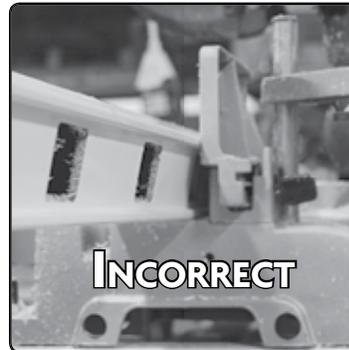


## STEP 9.

Mark the top rail (using the bottom rail and a steel rule as a guide) to the top edge of the rail as shown by the arrows. Make sure to extend the line out at the angle to the edge of the rail (mark line on "bump" of bottom of top rail on angle, not straight down). Cut the top rail to the lines using the chop saw set to 32°



Make sure bottom of rails are flush against saw fence.

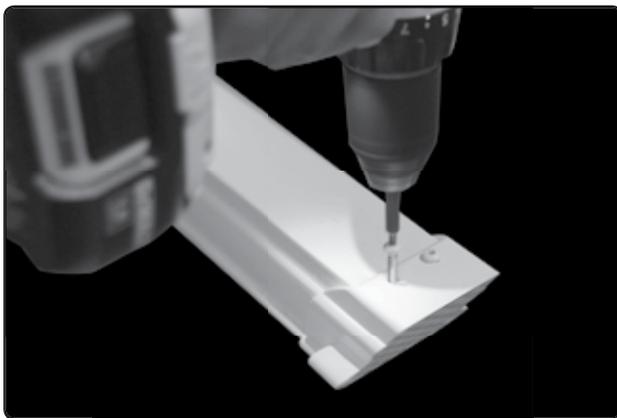


For angles 31-33° go to Step 12

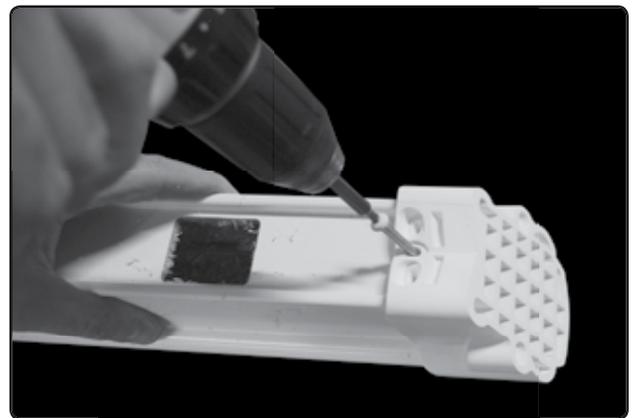
For angles 26-31 and 33-38 go to Step 10

## STEP 10.

Place brackets on bottom rail, securing with 2 screws per bracket (#10 x 1") as shown. Then, place brackets on top rail, securing with 1 screw per bracket (#10 x 1") as shown.



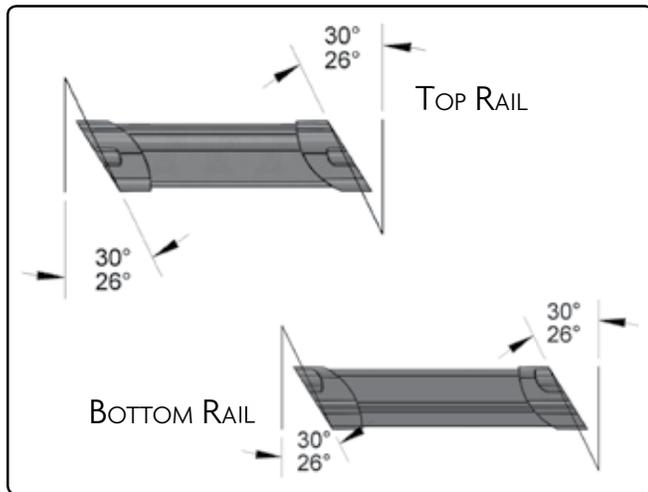
**BOTTOM RAIL**



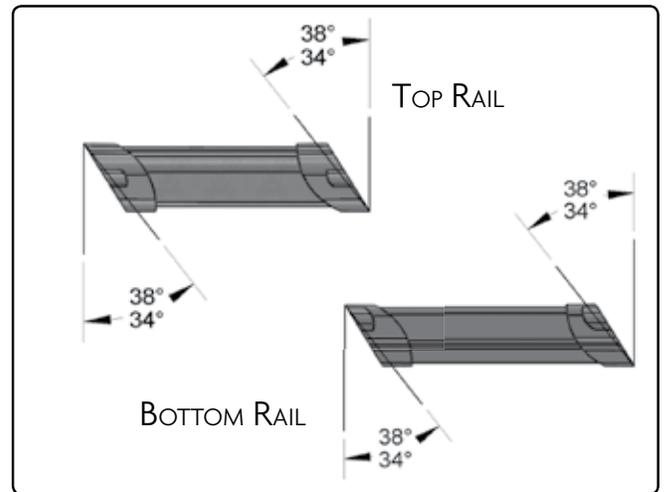
**TOP RAIL**

## STEP 11.

Set chop saw to stair angle and carefully cut all four brackets as shown. Be particularly careful to cut from the proper side of the bracket, depending on your angle. Cut smallest amount of bracket possible to get the correct angle on bracket (feather to edge).

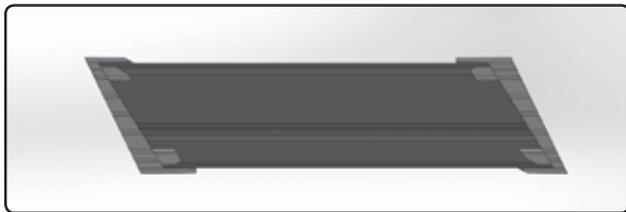


$\lt; 31^\circ$

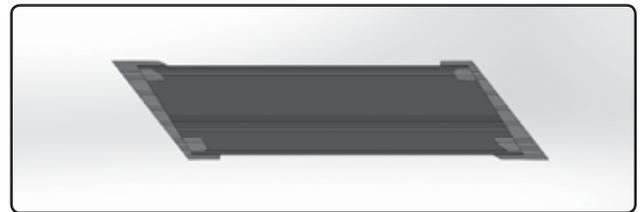


$\gt; 33^\circ$

The cuts outlined above give you the results below. The angle cut on the rail matches the inside of the bracket ( $32^\circ$ ). The bracket outside cut matches the installation angle.



$\lt; 31^\circ$



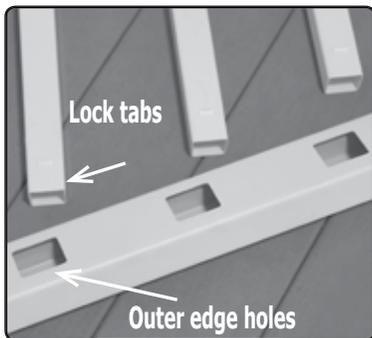
$\gt; 33^\circ$

Once the brackets have been cut to the proper angle, remove the screws from underneath the rails holding the brackets to the rails (from Step 10). This allows the rails to "float" in the brackets during assembly.

## STEP 12.

Assemble your stair railing section

- Lock tabs on baluster/spindle must face outer edge of routed holes in rails.
- Assemble your stair section by snapping balusters/spindles in rails.



- Place brackets on ends.
- Place assembled stair rail between posts on spacer board.

### STEP 13.

Make sure rail brackets are centered on posts. Drive two (#10x2") mounting screws into brackets and into posts, starting with the bottom rail. Repeat for each bracket. Screw holes are angled inwards to provide clearance for the drill chuck. Removal of the bottom stair tread is not required.



### STEP 14.

Two screws (#10x1") per bracket are driven under the top rail. Holes are angled to allow an extension bit to clear balusters.

**(NOTE: screws are not required in the bottom of the bottom rail.)**

