ESSENITAL ALUMINUM PRE-ASSEMBLED STAIR RAIL INSTALLATION INSTRUCTIONS

WHAT IS INCLUDED

A. Rail Panel (1)
B. Top Stair Bracket (2)
C. Bottom Stair Bracket (2)
D. Support Block (1 for 6ft, 2 for 8ft)
E. Support Block Connector(s)
F. Support Block Stair Connector(s)
G. Hardware Pack

NOT INCLUDED

1. 2-1/2” x 2-1/2” Aluminum Post Kit

TOOLS AND ITEMS NEEDED

- Power Drill
- 5/32" Drill Bit
- 1/8” Drill Bit
- T20 Torx Bit (provided)
- ¼” to 1” Thick Board
- Bar Clamps
- Miter Saw
- Pencil
- Speed Square
- Tape Measure

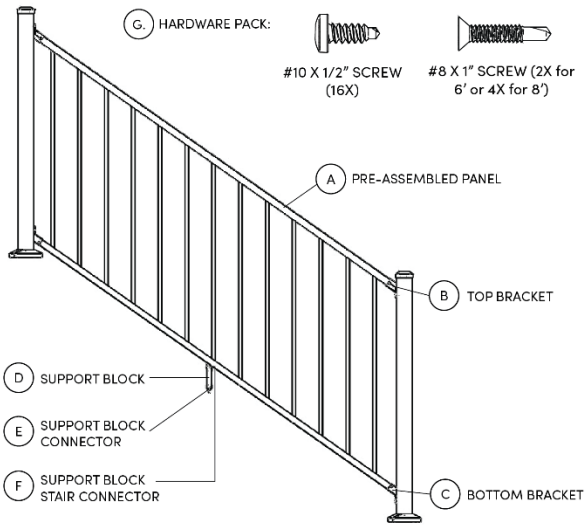
IMPORTANT NOTES

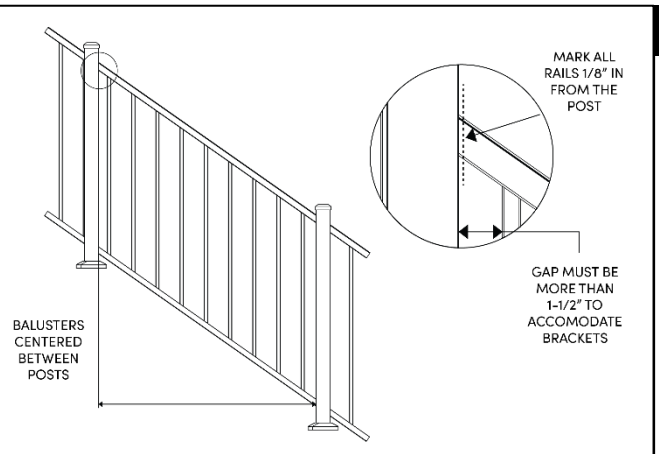
- The 6ft kit is designed for 35 degrees and a span of 57-1/4" between posts and the 8ft spans 76-3/4" between posts (measured horizontally).
- Gap between stairs and bottom rail cannot exceed a 6” sphere.
- Height of top rail is between 34” to 38”

RAIL WILL COME IN A HORIZONTAL ORIENTATION. YOU MUST RACK TO 35 DEGREES BEFORE INSTALLATION.

BEFORE YOU BEGIN

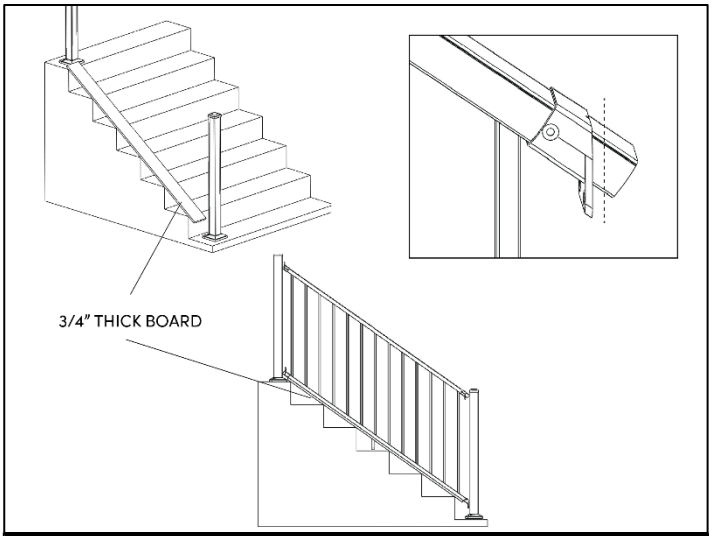
- Check with your local regulatory agency for special code requirements in your area. Common railing height is 34" to 38".
- Read instructions completely to get an understanding of how the product goes together and how each piece affects the other.
- Determine the number of railing posts needed and post spacing for your deck. Post spacing maximum will be 57-1/4" between the posts (not including bases) for 6' railing and 76-3/4" between the posts (not including bases) for 8' railing; be sure that you are measuring horizontally and not parallel to the stair angle. Refer to the post installation instructions to install the proper under deck joists and blocking materials to align with the holes in the post bases prior to installing your decking materials.





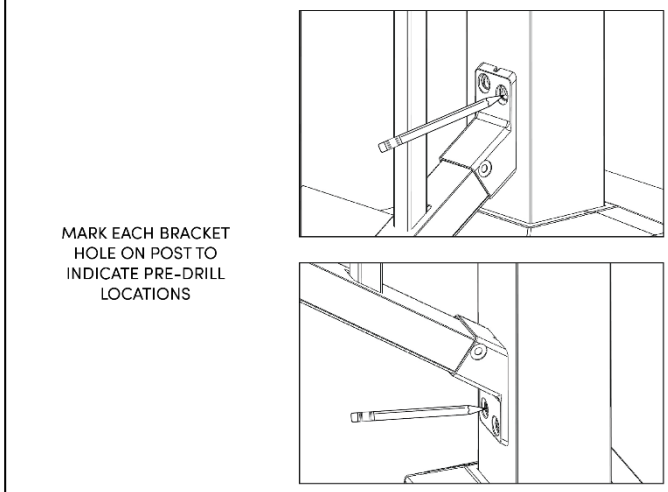
STEP 1 – Shorten Panel Length (If Needed)

- Set your rail panel on the stairs next to your posts.
- Center the balusters as best as you can between the posts. If the baluster is within 1-1/2” from the post, you must shift the rail to one side to make room for the brackets.
- Once in position, clamp the rail to the posts.
- Mark the top and bottom rails 1/8” in from the posts. Be sure you are marking parallel to the post.
- Cut your rails on the marks.



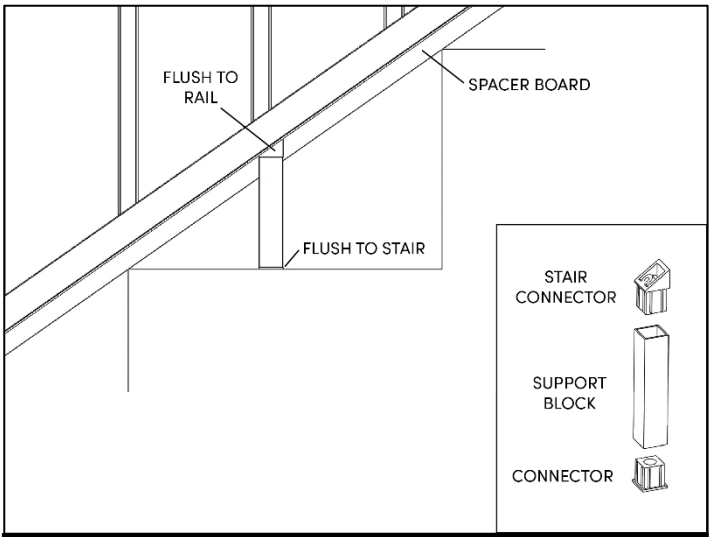
STEP 2 – Test Fit Rail Section

- Set a board down on the stairs between ¼" and 1" thick as shown. Note - a ¾" board works well. This will act as a spacer for the rail.
- Slide the brackets onto the rail ends and set the rail panel on the spacer board. Make sure the bracket angle and panel length are correct for your stair section.
- NOTE: You may need to use a second person or clamps to hold the rail in place for the next steps.



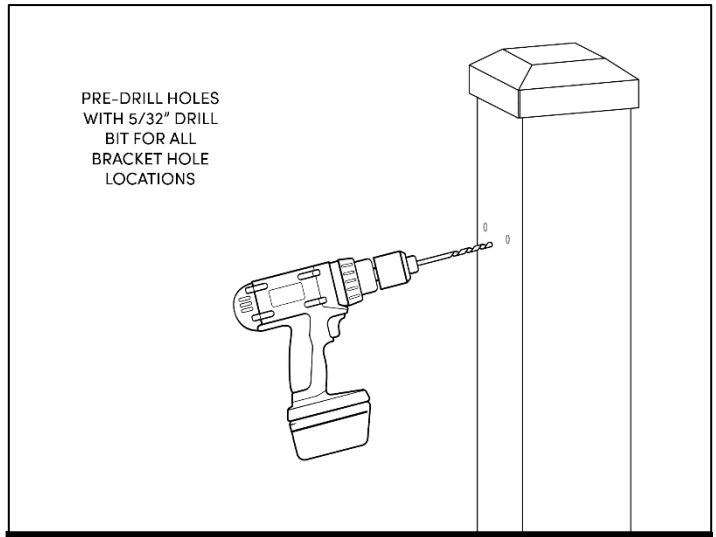
STEP 3 – Mark Bracket Locations

- Slide the bottom brackets out until they are flush with the post.
- Mark the hole locations on the posts for all brackets.



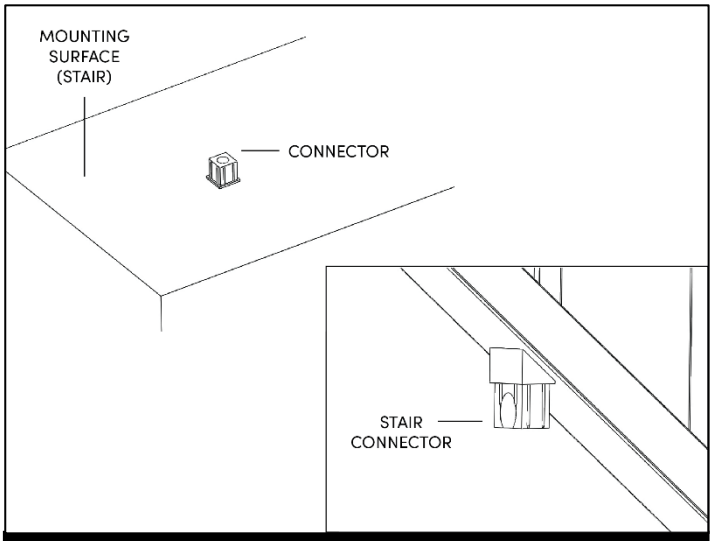
STEP 4 – Mark Support Block Locations

- Temporarily insert the support block connectors into the support block.
- If your rail is more than 3' long, you will need (1) support block; if it is more than 6' long, you will need (2) support blocks.
- Identify the intended location(s) for your support block(s).
- With the spacer board out of the way, position the support block(s) with connectors beneath the bottom rail until it is tight between the bottom rail and the stair tread as shown. Mark the location(s) of the connectors on the bottom rail and step tread(s).



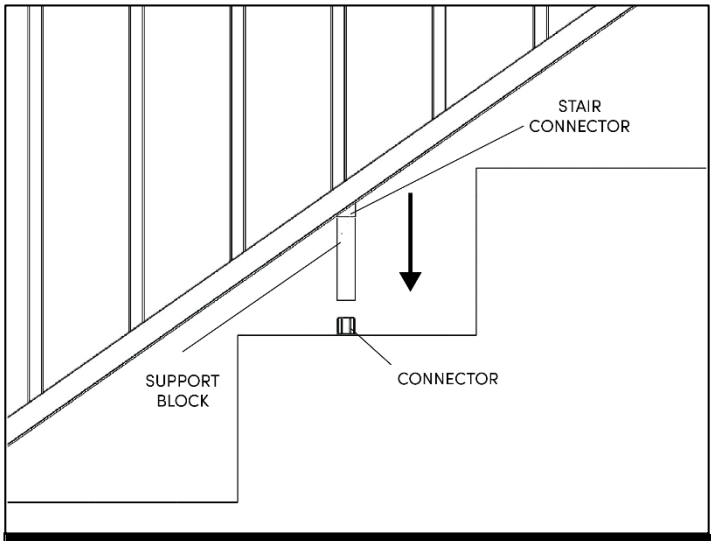
STEP 5 – Pre-Drill Posts for Brackets

- Remove the railing from the posts.
- Drill 5/32" pilot holes for all bracket hole locations in both posts using the marks made in Step 3.



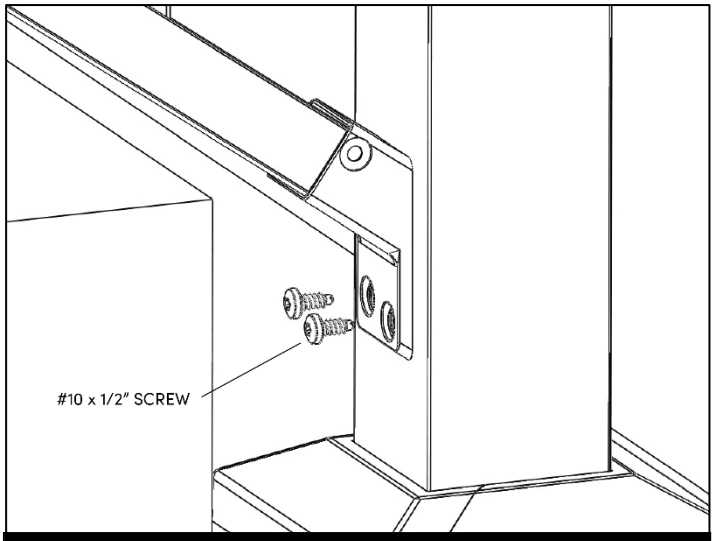
STEP 5 - Attach Support Block Connectors

- Remove the rail panel from the spacer board.
- Remove the connectors from the support block.
- Line up the stair support block connector with the marks on the rail. Make sure it is centered on the rail. Pre-drill using a 1/8” drill bit and attach using a supplied #8 x 1” Flathead screw.
- Line up the flat support block connector with the marks on the stair from the previous step. Pre-drill using a 1/8” drill bit and attach using a supplied #8 x 1” Flathead screw.



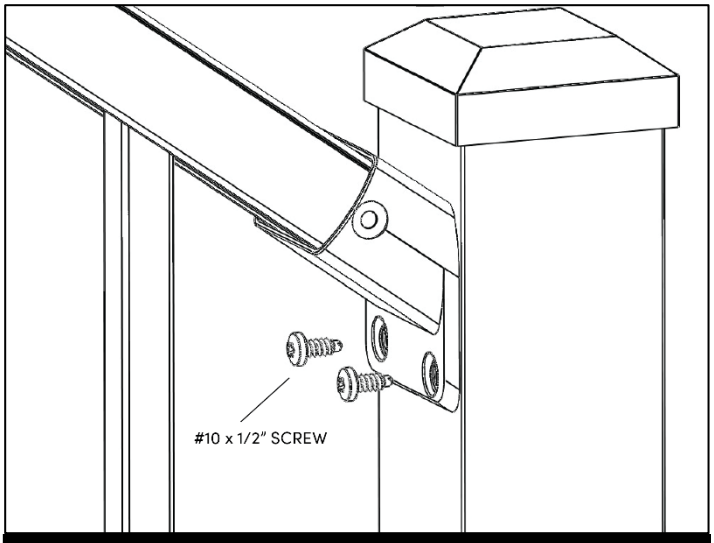
STEP 6 – Attach Support Block and Set Rail in Place

- Attach the support block to the connector on the rail panel.
- Make sure the brackets are still on the rail ends and set the panel into place.
- Attach the support block to the connector on the stairs as you lower the panel into place.
- NOTE: You can use the spacer board to help hold the rail panel in place for the next steps



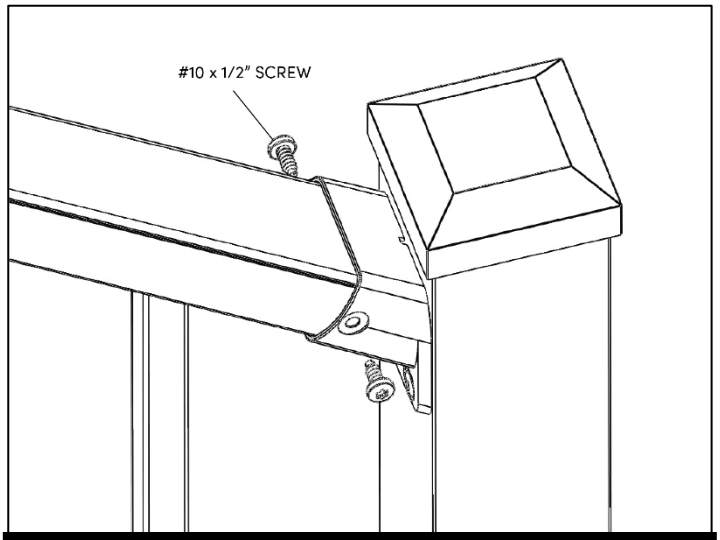
STEP 7 – Attach Bottom Brackets to Posts

- Slide the bracket towards the post until it is flush and centered on the post. Make sure the brackets line up with the marks from step 2.
- Drill a 5/32” pilot hole in the post using the holes in the bracket as a guide.
- Attach the brackets to the post using the two provided #10 x 1/2” screws.
- Repeat for all the other bottom brackets.



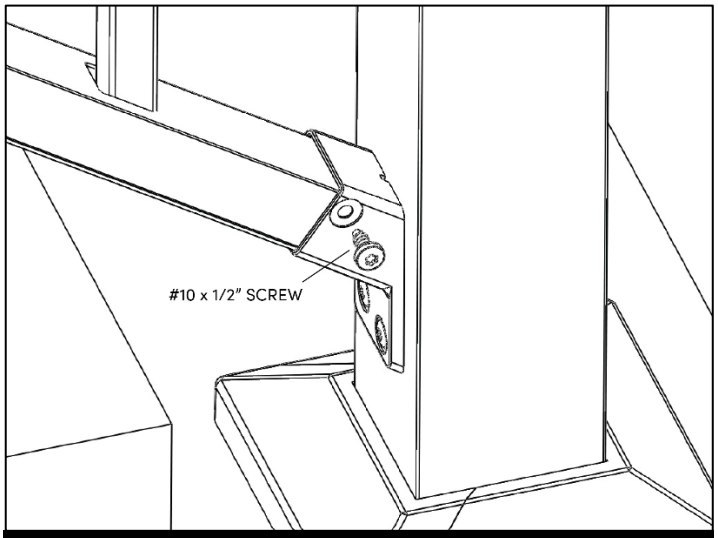
STEP 8 – Attach Top Brackets to Posts

- Slide the bracket towards the post until it is flush and centered on the post. Make sure the brackets line up with the marks from step 2.
- Drill a 5/32” pilot hole in the post using the holes in the bracket as a guide.
- Attach the brackets to the post using the two provided #10 x 1/2” screws.
- Repeat for all the other top brackets.



Step 9 - Attach Top Brackets to Rails

- Drill a 5/32” pilot hole in the rail using the holes in the bracket as a guide.
- Attach the brackets to the rail using the two provided #10 x 1/2” screws.
- Repeat for the other top bracket.



Step 10 - Attach Bottom Brackets to Rails

- Drill a 5/32” pilot hole in the rail using the holes in the bracket as a guide.
- Attach the brackets to the rail using the two provided #10 x 1/2” screws.
- Repeat for the other bottom bracket.

THE DIAGRAMS AND INSTRUCTIONS IN THIS BROCHURE ARE FOR ILLUSTRATION PURPOSES ONLY AND ARE NOT MEANT TO REPLACE A LICENSED PROFESSIONAL. ANY CONSTRUCTION OR USE OF THE PRODUCT MUST BE IN ACCORDANCE WITH ALL LOCAL ZONING AND/OR BUILDING CODES. THE CONSUMER ASSUMES ALL RISKS AND LIABILITY ASSOCIATED WITH THE CONSTRUCTION OR USE OF THIS PRODUCT. THE CONSUMER OR CONTRACTOR SHOULD TAKE ALL NECESSARY STEPS TO ENSURE THE SAFETY OF EVERYONE INVOLVED IN THE PROJECT, INCLUDING, BUT NOT LIMITED TO, WEARING THE APPROPRIATE SAFETY EQUIPMENT. EXCEPT AS CONTAINED IN THE WRITTEN LIMITED WARRANTY, THE WARRANTOR DOES NOT PROVIDE ANY OTHER WARRANTY, EITHER EXPRESS OR IMPLIED, AND SHALL NOT BE LIABLE FOR ANY DAMAGES, INCLUDING CONSEQUENTIAL DAMAGES.

©2023 UFP Retail Solutions, LLC. Deckorators is a registered trademark of Deckorators, Inc. All rights reserved. 68956 U.S. Highway 131, White Pigeon, MI 49099

www.Deckorators.com