ESSENTIAL ALUMINUM RAIL KIT INSTALLATION INSTRUCTIONS

WHAT IS INCLUDED

A. Top Rail (1)
B. Bottom Rail (1)
C. Balusters (15-6ft) (21-8ft)
D. Top Bracket (2)
E. Bottom Bracket (2)
F. Support Block (1 for 6ft, 2 for 8ft)
G. Support Block Connector(s)
H. Hardware Pack

NOT INCLUDED

- 2-1/2” x 2-1/2” Aluminum Post Kit

TOOLS AND ITEMS NEEDED

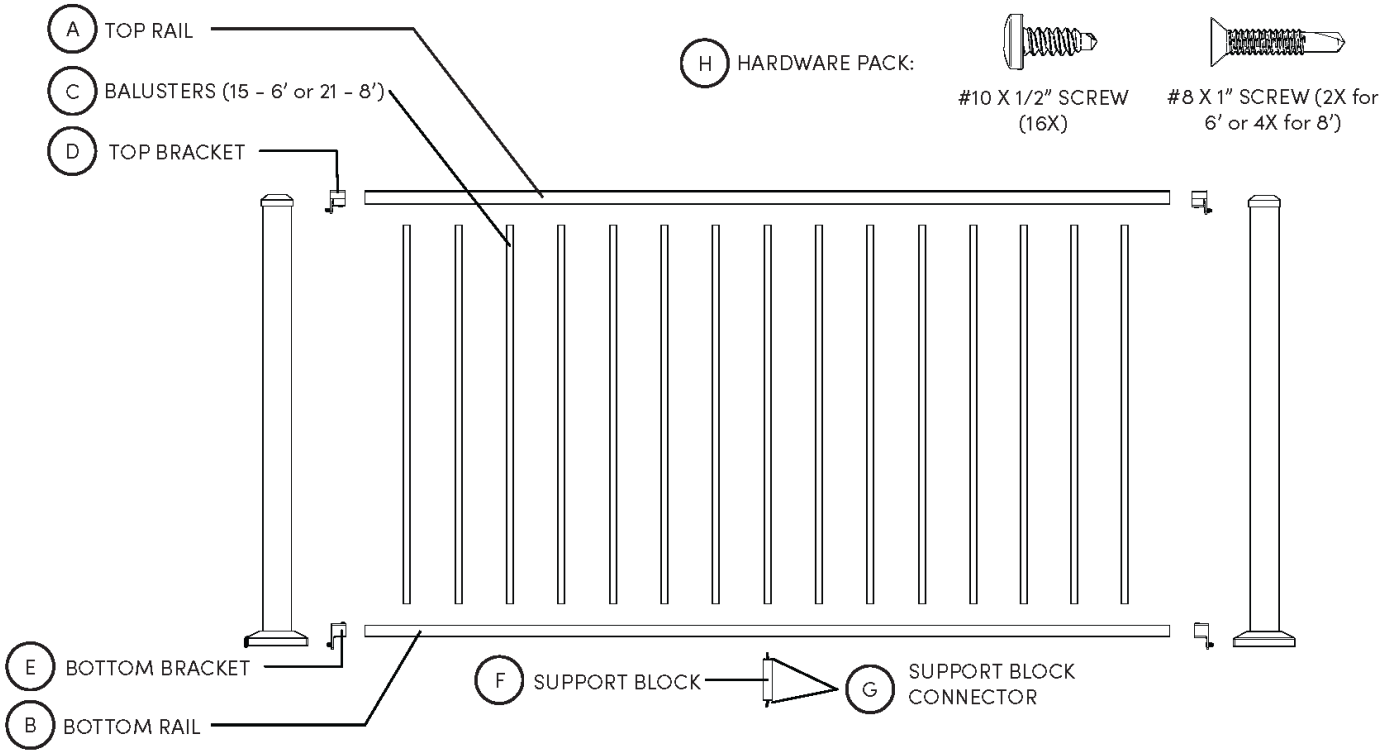
- Power Drill
- 5/32" Drill Bit
- T20 Torx Bit (provided)
- Miter Saw
- Pencil
- Speed Square
- Tape Measure
- Rubber Mallet
- Two small pieces of 2x4 wood (optional)

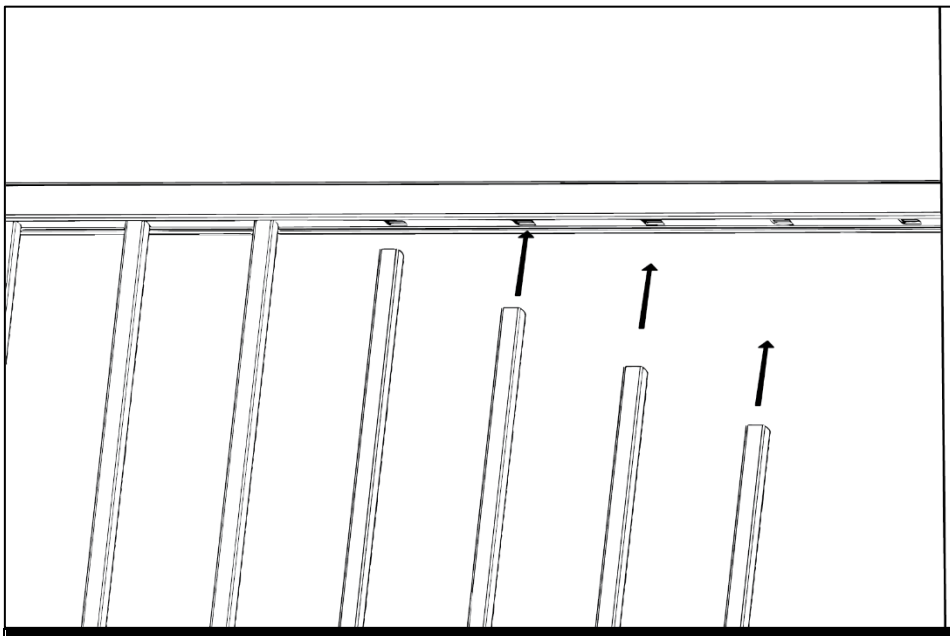
IMPORTANT NOTES

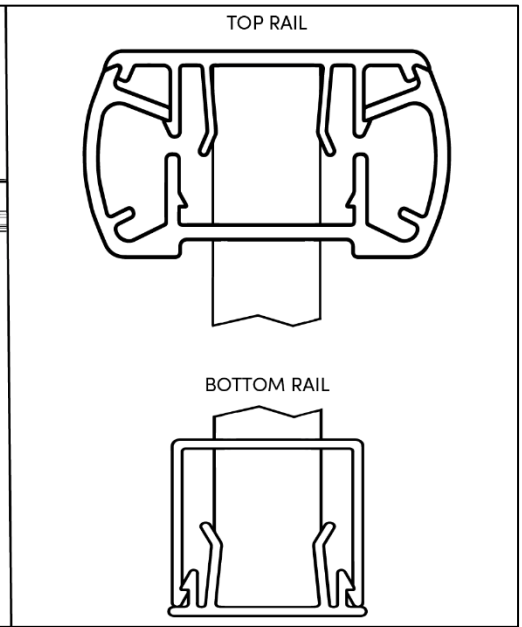
- The 6ft kit is designed for a span of 69-1/2" between posts and the 8ft spans 93-1/2" between posts.
- Gap between deck surface and bottom rail = 3-1/2"
- Height of top rail = 36" (or 42" for the 42" Rail Kit)

BEFORE YOU BEGIN

- Check with your local regulatory agency for special code requirements in your area. Common railing height requirement is 36" or 42”
- Read instructions completely before assembly 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 69-1/2" between the posts (not including bases) for 6' railing and 93-1/2" between the posts (not including bases) for 8' railing. 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.

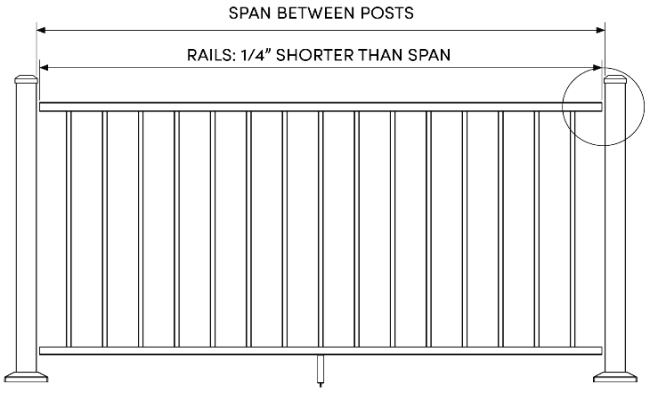


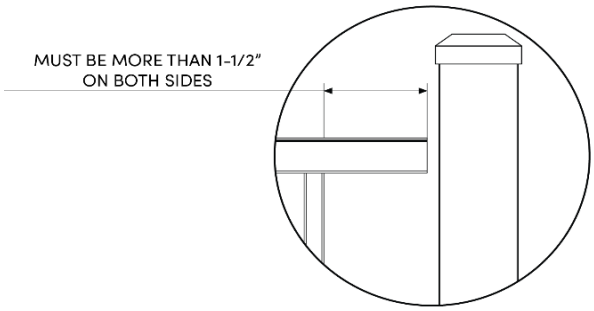




STEP 1 – Assemble Rail Panel

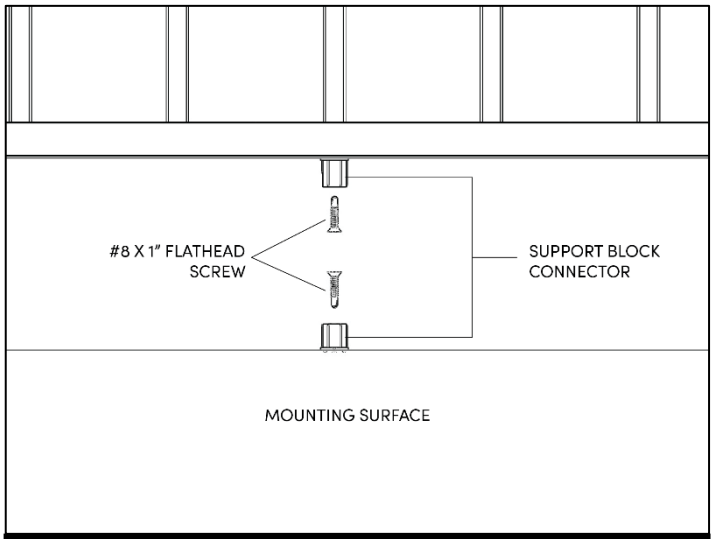
- Insert the balusters into the baluster holes in the rails by pressing the balusters in until they fully seat into the rails.
- Images of the Top and Bottom Rail ends shown (right) display how the baluster fits snugly between the compression arms in the rail profiles.
- You may need to use a rubber mallet to fully seat the balusters into the rails.





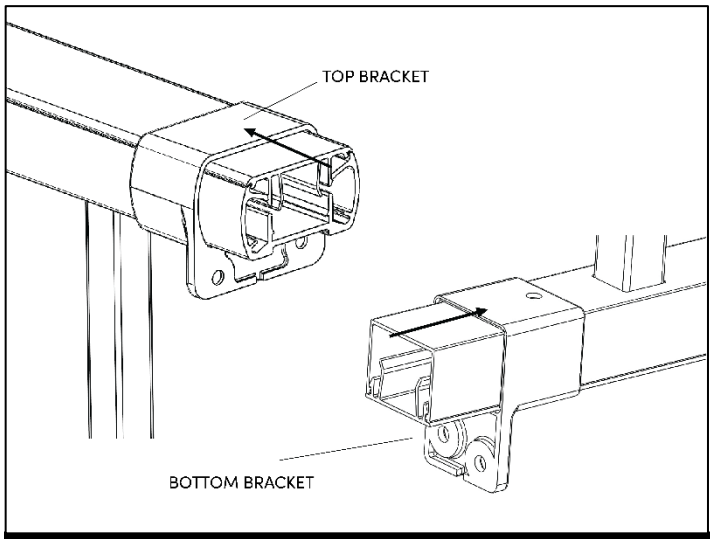
STEP 2 – Shorten Panel Length (If Needed)

- The 6ft kit is designed for a span of 69.5". The 8ft kit is designed for a span of 93.5". Proceed to Step 2 if you don't need to shorten.
- Measure the desired span between the posts.
- Subtract ¼" from that dimension for your panel length and mark the rails. The marks should be equally spaced between balusters.
- If the balusters are within 1-1/2" of either mark (after the proposed cut), you must shift the cut marks to either side so the balusters do not interfere with the brackets.
- Properly secure the rail panel and cut on the cut marks.



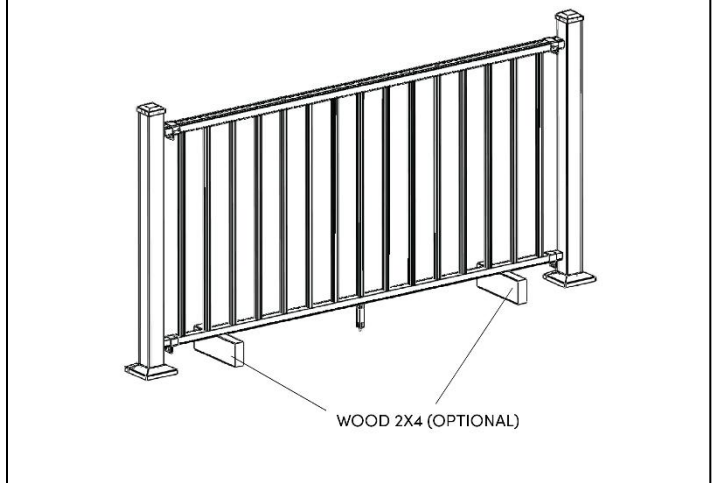
STEP 3 – Install Support Block Connectors

- Any section of railing greater than 3ft will require (1) centered support block; any section of railing greater than 6ft will require (2) equally spaced support blocks.
- Position the support block connector(s) under the bottom rail. Pre-drill using a 1/8" drill bit and attach using the supplied #8 x 1" Flathead screw.
- Temporarily set the rail in place, centered between the posts. Mark the deck surface where the support block connector(s) touches.
- Remove the rail and attach the other crush block connector(s) to the deck surface, directly below the other connector(s). Pre-drill using a 1/8" drill bit and use the supplied #8 x 1" Flathead screw.



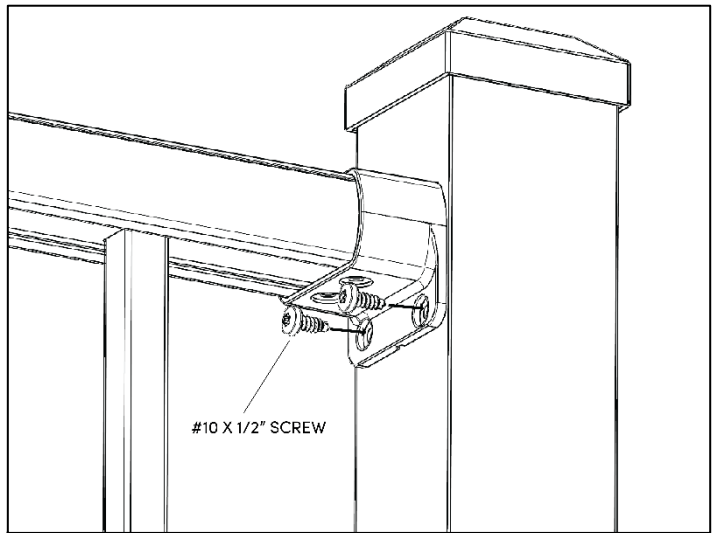
STEP 4 – Slide Brackets Onto Rail Ends

- Slide both top brackets over the top rail ends as shown.
- Do the same for both bottom brackets.



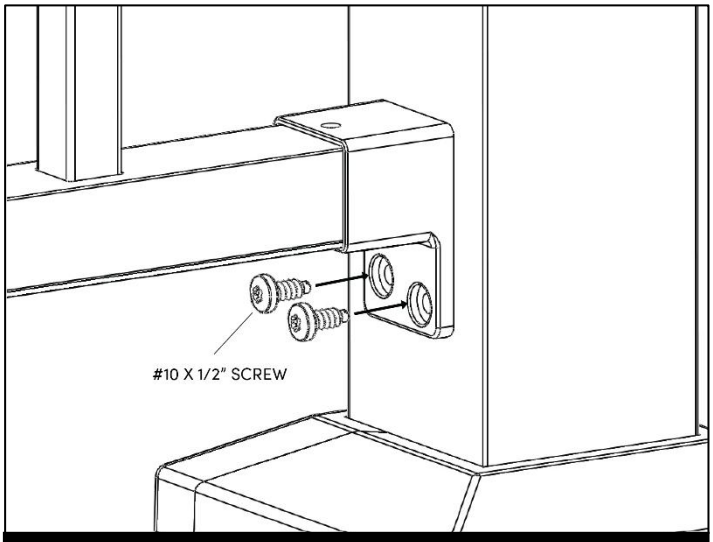
STEP 5 – Set Railing Into Position

- **PRO TIP:** Cut two pieces of a 2x4 to put under the rail during installation. The gap is 3.5" from the deck to the bottom rail.
- Attach the support block to the connector on the bottom of the rail panel and set the assembly onto the previously attached support block connector on the deck surface.



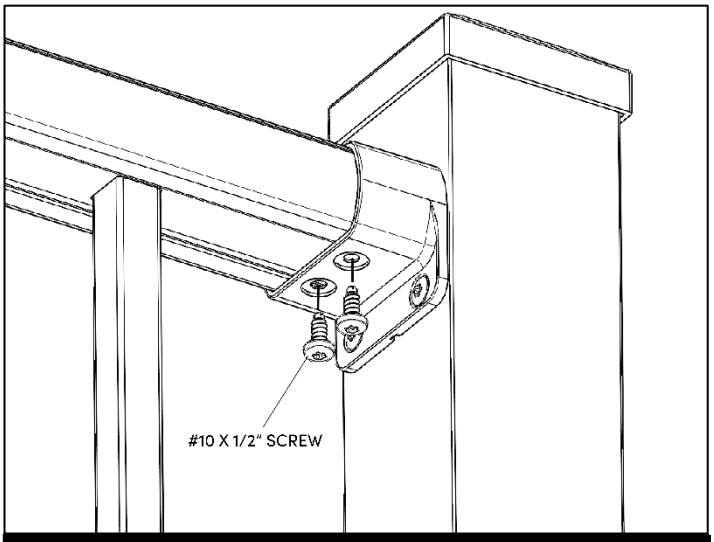
STEP 6 – Attach Top Brackets to Posts

- Slide the bracket towards the post until it is flush and centered on the post.
- 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 (2) provided #10 x 1/2" screws.
- Repeat for the other top bracket.



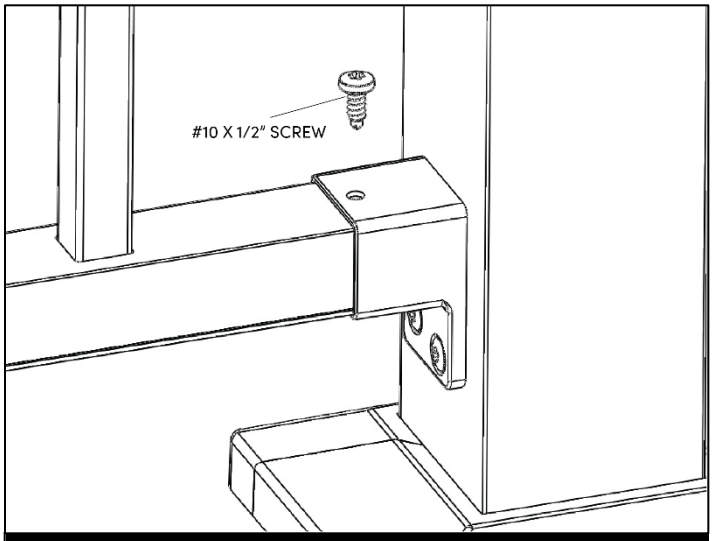
STEP 7 - Attach Bottom Brackets to Posts

- Slide the bracket towards the post until it is flush and centered on the post.
- 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 (2) provided #10 x 1/2" screws.
- Repeat for the other top bracket.



STEP 8 – Attach Top Brackets to Rail

- 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 (2) provided #10 x 1/2" screws.
- Repeat for the other top bracket.



STEP 9 – Attach Bottom Brackets to Rail

- Drill a 5/32" pilot hole in the rail using the top hole in the bracket as a guide.
- Attach the brackets to the rail using (1) provided #10 x 1/2" screw.
- Repeat for the other bottom bracket.

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