

DECK-RAIL.COM

Installation Manual

WL3000



Tools & Materials

Required	Recommended
<ul style="list-style-type: none">• Tape Measure• Pencil• Levels (Torpedo, 2', 4')• 1/8", 7/32", 5/16" Drill Bits• Power Drill & Impact Gun• #2 & #3 Screw Tips• Socket Set for mounting bolts• 2" x 4" Wood (few 8' pieces)• Shims• Blue Tape• Fine File	<ul style="list-style-type: none">• Portaband (Portable Band saw)• Abrasive Cut Off Wheel• Disc Grinder• Miter Saw• Wood Clamps (Jorgensen)• 1/4" tap bit

DECK-RAIL.com Installation Instructions:

Please read all instructions carefully before starting installation

Very Important First Steps

LAY OUT ALL PIECES OF THE RAILING SYSTEM and tools to ensure you have everything needed to install the railing system.

CHECK AGAINST SUPPLIED SHOP DRAWING. (Fig. 1)

Use blue tape or similar to mark post locations. (Fig. 2) Lay down one rod from each group (each one is labeled to match the shop drawing). (Fig. 2)

Part A: Assemble (in panels) and side mount to rim joist

- 1) Lay down protection on deck where you will be working (Fig. 3)
- 2) Lay down posts on protection in the approximate location where they will be attached to rim joist.
- 3) Slide wedge inside posts (Fig. 4) (wedge may come pre-inserted).
- 4) With a helper and starting at either end, slide stainless rods through posts (Fig. 5, Fig. 6)
- 5) Once that panel is assembled on the deck, stand rail up (Fig. 7)
- 6) Using some sort of ledger or prop to hold up railing, carefully lift railing off deck and against face of rim joist.
- 7) Move railing into position where the posts get attached.
- 8) Using shims if needed, plumb posts and level sub rail on top of posts.
- 9) Pre-drill then install mounting bolts to rim joist (Fig. 8).

- 10) Recheck for plumb and level as you tighten mounting bolts.

Part B: Joining inline and corner panels

- 1) Use the special 2 piece post tool to stabilize the rods while you prep the next panel, keeping in mind that the stainless rods always join inside of a post.
- 2) Repeat steps 2-10 from Part A.
- 3) Slide the post that joins the two panels on to one of the panels.
- 4) Place a piece of blue painters tape 5/8" back from cut edge of rod of highest and lowest stainless rods, (Fig. 12). You must do this before the post that joins the two panels is set plumb.
- 5) Carefully slide post (from Step B3, that hides the joint of the rods) across to other panel so that all the joints in the stainless rods are concealed when post is plumb.
- 6) Bolt posts of panel to rim joist, making sure posts are plumb using a string line, straight edge or sub rail.
- 7) Repeat steps until all of the railing is installed.

Part C: Setting Sub Rail

- 1) Tighten screw to activate wedge lock. Then remove and set aside screw to re-use in Step C5. Discard supplied plate. (Fig. 9)
- 2) Cut sub rails to length with miter saw so that butt joints on top of a post. Leave 1/4" spacing between adjoining sub rails on top of posts.
- 3) Mark the center of the post on the sub rail when it is in position.
- 4) Using supplied template tool, drill center hole with 5/16" bit and small holes with 7/32" bit (Fig. 10).
- 5) Install 1/4-20 pan head screw (supplied) through sub rail and into center of post. Do not tighten all the way (Fig. 10).

- 6) Once all the posts are in and plumb and the “floating” stainless rods are all equal, tighten the ¼-20 screws until tight. This will activate the wedges (Fig. 10 “Locked”) to take out any rattling or rotation that may be in the rods.

Part D (wood): Setting Wood Cap Rail

- 1) It is highly recommended to use scrap pieces of wood to find the angles of the corners first and then cut the finish pieces to that template (Fig. 14). This also allows you to get an accurate measurement from corner to corner or corner to end of wood.
- 2) Using the miter saw, cut the wood to length to fit over the subrail.
- 3) Glue all joints before screwing wood down.
- 4) Sub rail is already drilled and countersunk for a #10 x 1” stainless sheet metal screw. We provide the mounting screws.
- 5) Using the 1/8” drill bit, place a small strip of blue painters tape ¾” from the tip of bit, (Fig. 13).
- 6) Pre-drill wood to ¾” depth marked with tape.
- 7) Screw wood cap rail to subrail (Fig. 16).
- 8) Sand, stain and seal and wood to desired finish.

Part D (metal): Setting Metal Cap Rail

- 1) Corners come pre-assembled and cut. Measure and cut lengths to fit over the rest of the predrilled subrail.
- 2) Sub rail is already drilled and countersunk for a #10 x 1” stainless sheet metal screw. We provide the mounting screws.
- 3) Snap cap rail into place on top of subrail.
- 4) Screw metal cap rail to subrail (Fig. 15).

Figure 1: Checking contents and tools.



Figure 2: Laying out and checking dimensions:



Figure 3: Protecting the workarea



Figure 4. Slide wedge into post

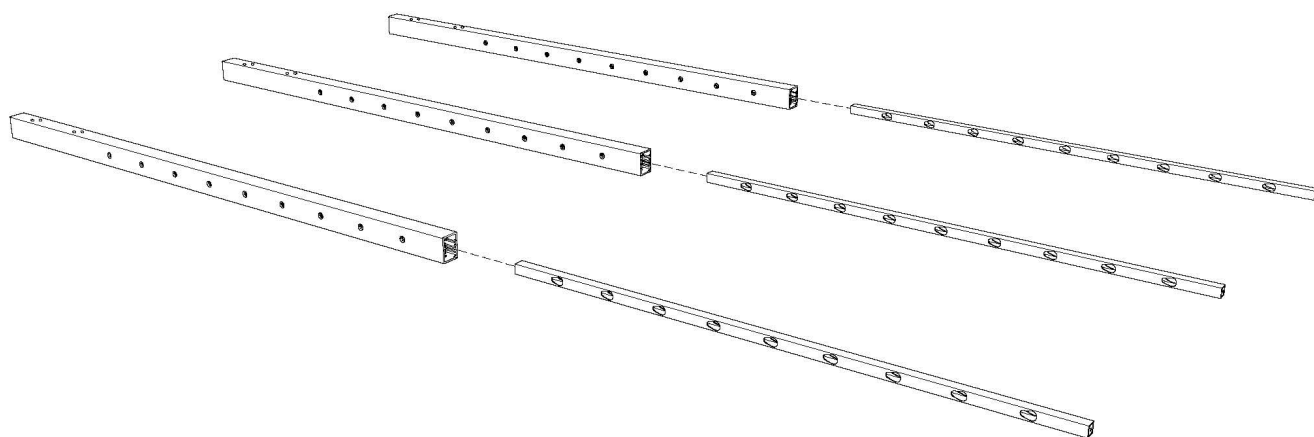


Figure 5. Slide rods into post

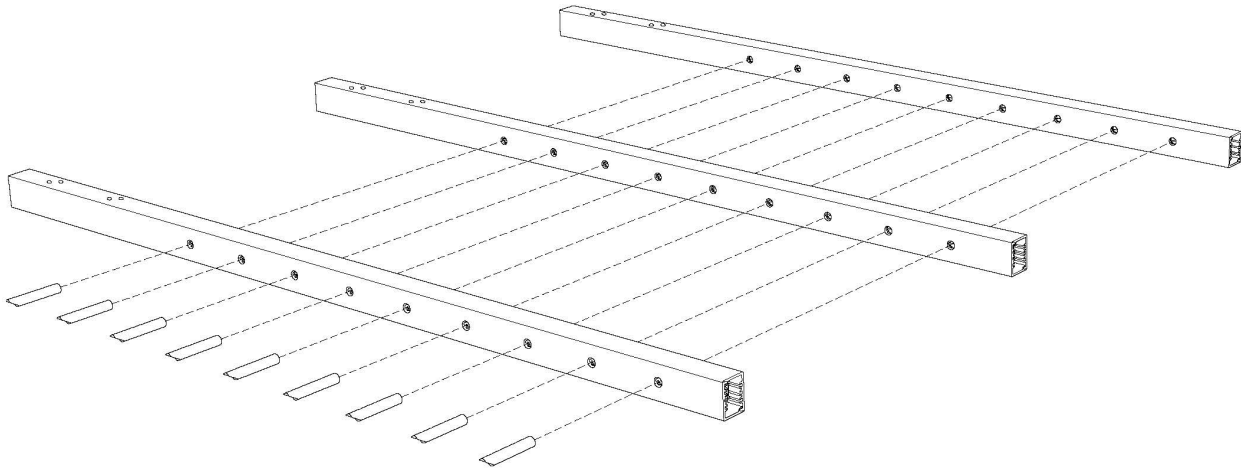


Figure 6. Rods and posts, assembled

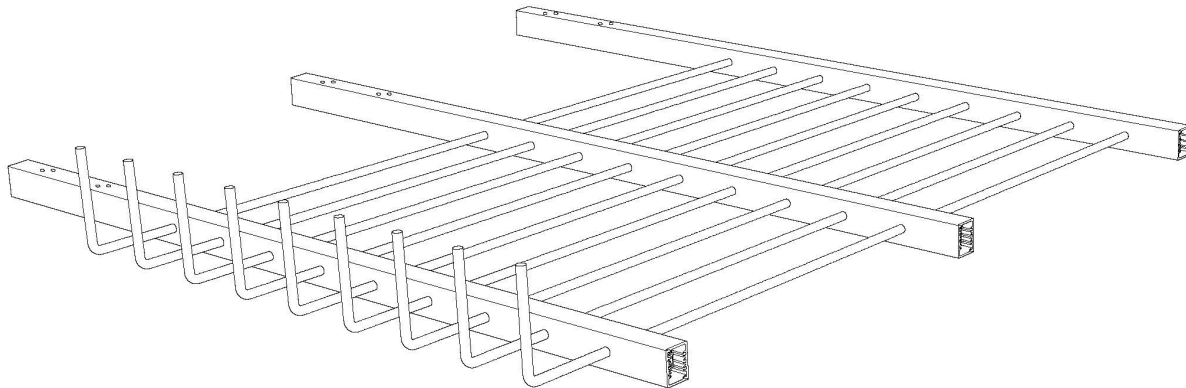


Figure 7. Raise railing

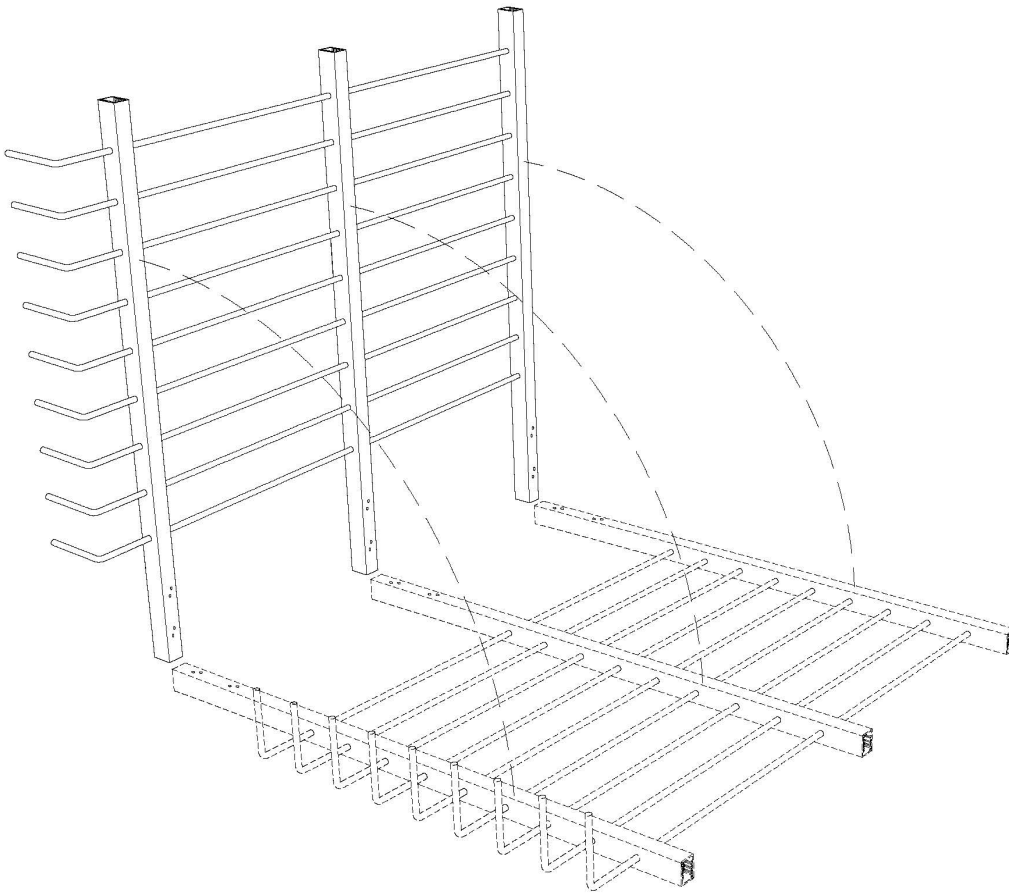


Figure 8. Clamp/secure to rim joist and set plumb & level



Figure 9. Wedgelock screw/plate detail

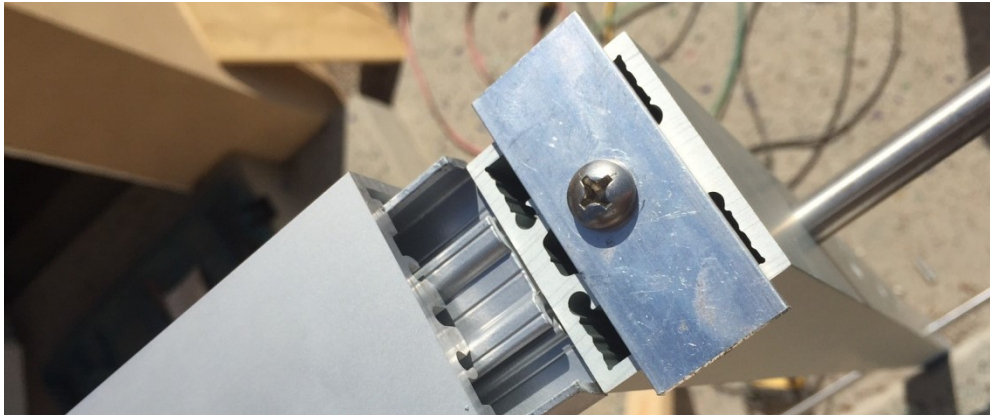


Figure 10. Marking and drilling subrail to attach to post

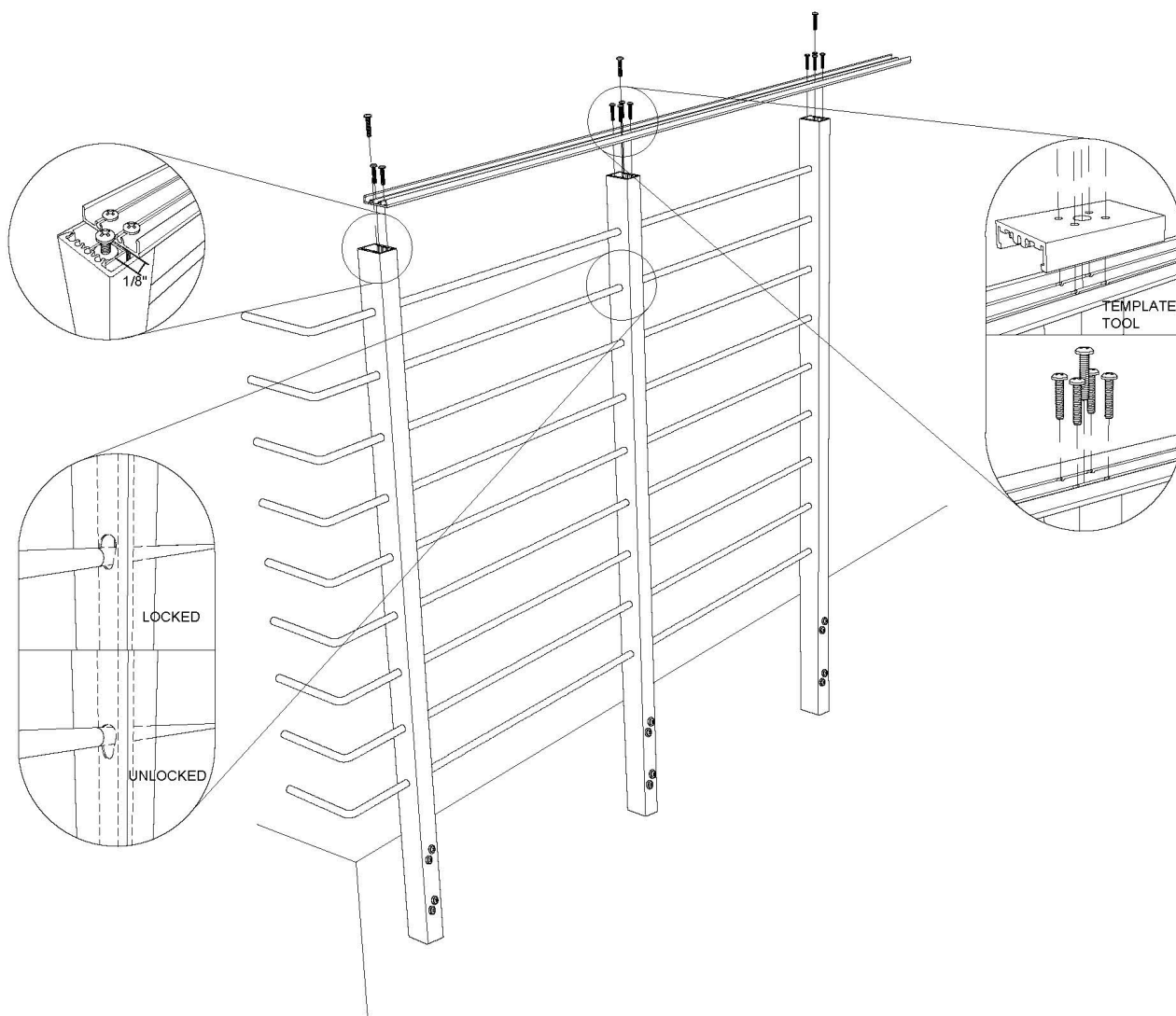


Figure 11. Assembled rail and sub rail

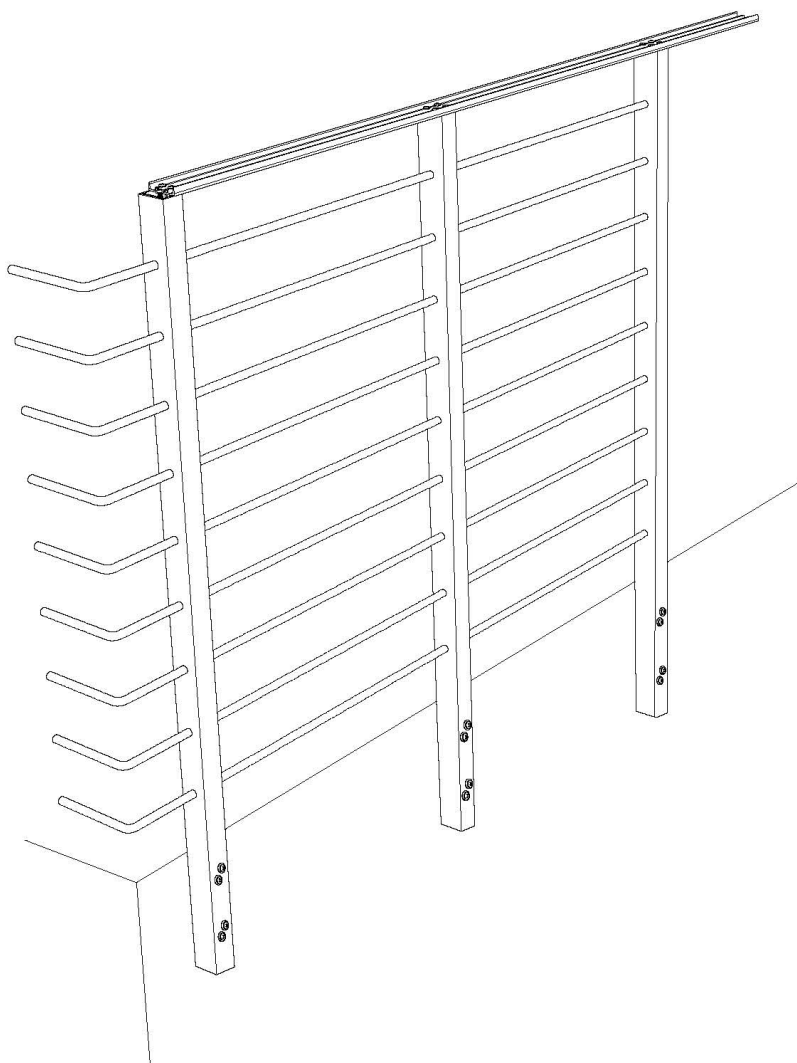


Figure 12. Marking stainless rod to align inside of post



Figure 13. Using blue tape as a depth gauge for drilling wood cap rail



Figure 14. Use scrap wood to get accurate angles

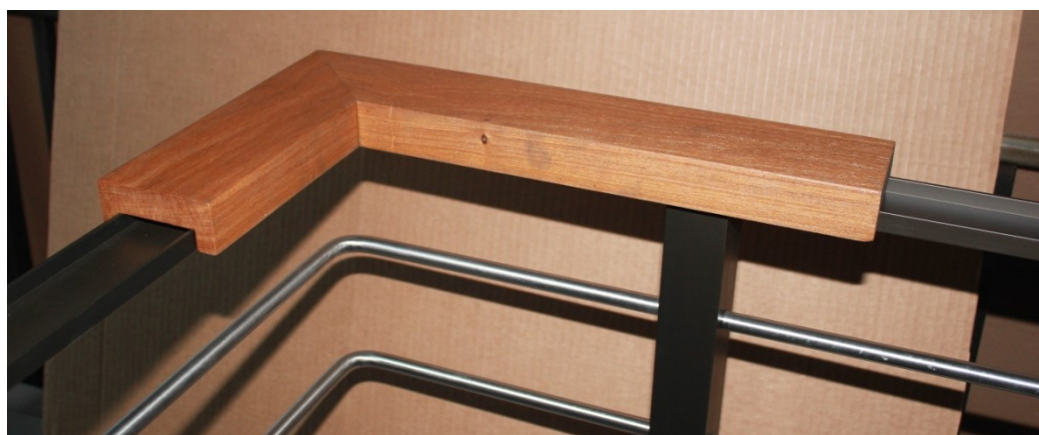


Figure 15. Attach cap rail (metal)

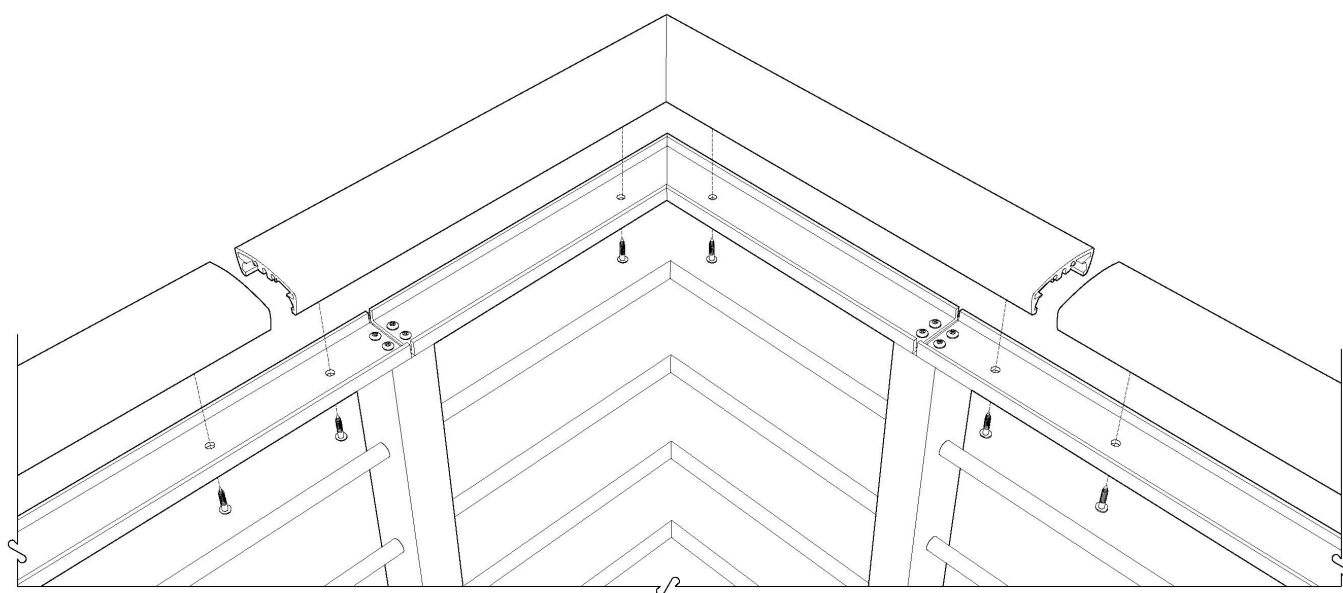
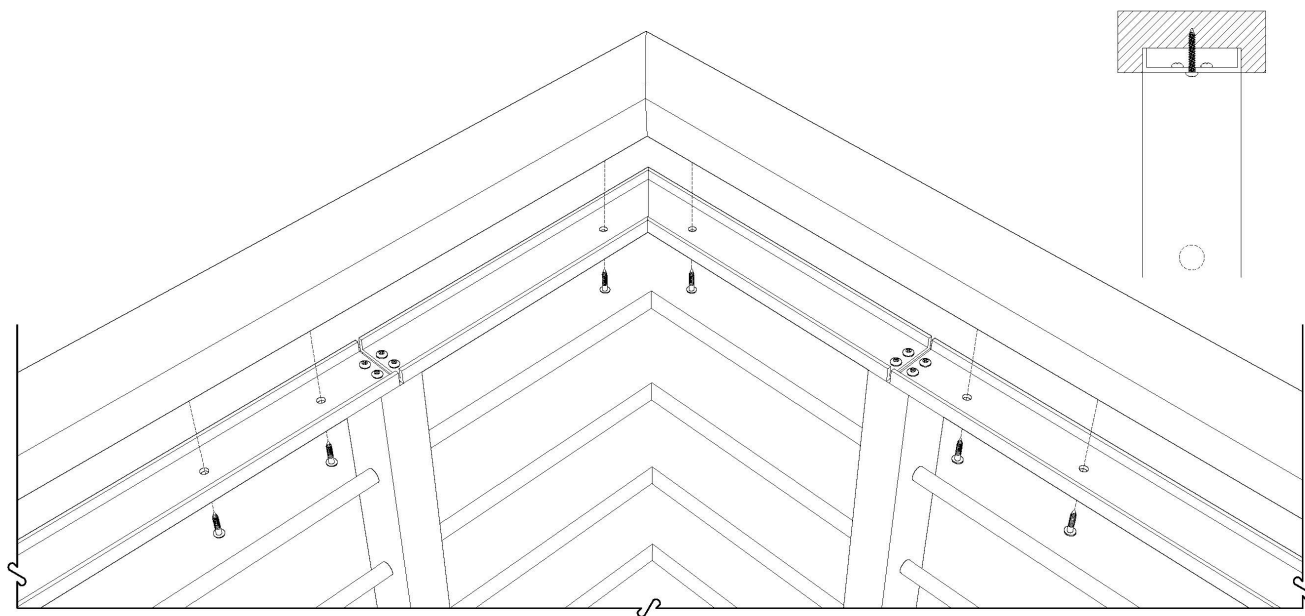


Figure 16. Attach cap rail (wood)



Still have questions?

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