

INSTALLATION INSTRUCTIONS FOR 6 AND 8 FT. LINE AND STAIR RAILS

- Drill/power screwdriver
- Tape measure
- Quick clamps
- Safety glasses/goggles
- Miter or circular saw with carbide-tipped blade
- Carpenter's level
- Speed square
- Gloves
- Carpenter's pencil

[illegible]

6 FT. 2X4 STAIR RAIL KIT

Preparation

This rail may only be used in residential applications. The stair railing was designed to work on stairs that have a 10" run and 6-3/4" rise, which creates a 34° angle. Prior to construction, check with your local regulatory agency for special code requirements in your area. Typical requirements are minimum height from the leading edge of the stair treads to the top of the top stair rail of 34 to 38". A 6" ball cannot pass through the triangle formed by the bottom rail, tread and riser. All other gaps are typically required to be less than 4-3/8". This rail kit is designed to be used with structural 4x4 posts properly secured at 6' on-center (o.c.) spacing. Pre-drill all screw locations to minimize splitting.

Instructions

STEP 1: Measure the distance between posts and if necessary, cut the rails to size by trimming the unnotched end. Cut the rail to length at a 34° angle using a miter saw.

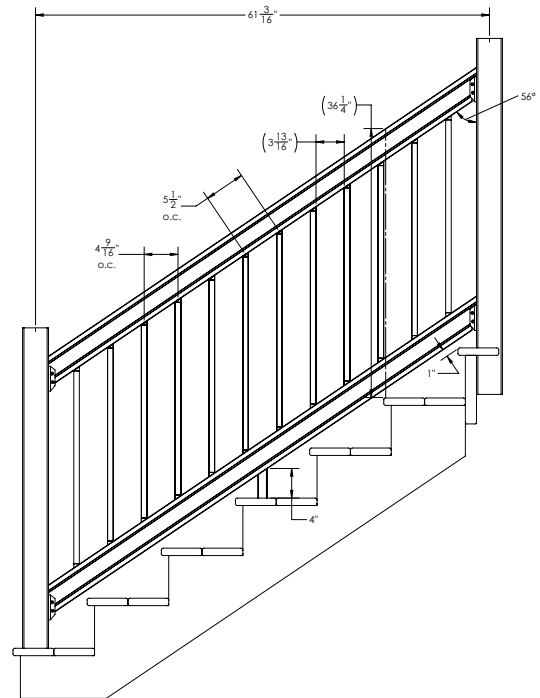
STEP 2: Determine the sweep beneath the bottom rail. Attach the support block to the center of the bottom rail using the 3-1/2" screw.

STEP 3: Prop the bottom rail in place between posts. Mark the location of the (4) 2x4 railing brackets and attach to the posts according to the included instructions.

STEP 4: Attach the bottom 2x4 rail to the 2x4 railing brackets.

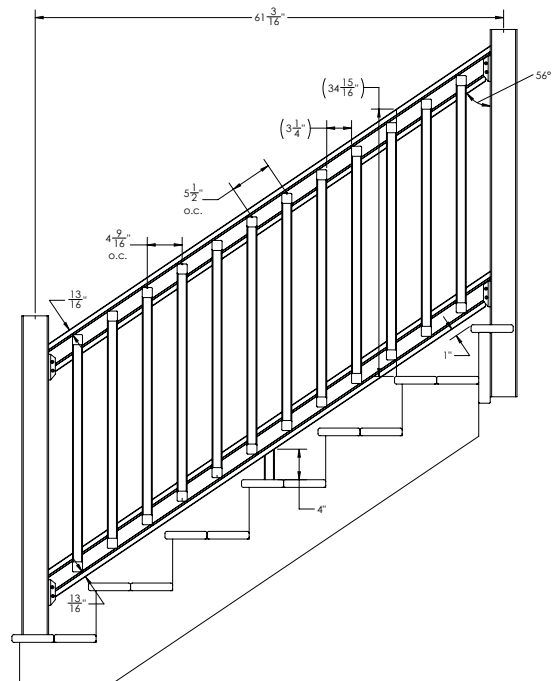
BALUSTER STYLE ROUND AND SQUARE ALUMINUM BALUSTERS

- For a 6' o.c. stair rail with 4x4 posts, 12 balusters are needed.
- Find the center of the rail and make a mark 2-3/4" from the center.
- Mark top and bottom rails 5-1/2" on-center from this point.
- Fasten a stair baluster connector on each mark.
- Slide a baluster onto each connector installed on the bottom rail.
- Install the top rail, fitting balusters onto the connectors from one end to the other.
- Attach the top 2x4 rail to the 2x4 railing brackets.



BALUSTER STYLE FACE-MOUNTED WOOD BALUSTERS

- Measure and install top rail to the 2x4 railing brackets.
- The face-mounted balusters are spaced 5-1/2" on-center with a 3-1/4" gap between balusters.
- For a 6' o.c. rail with 4x4 posts, 12 balusters are needed.
- Find the center of the rail and mark 1-1/4" from the center.
- Use a speed square to draw a vertical line on the rail face. This mark will indicate the side of the first wood baluster.
- Clamp a baluster in place and plumb using a level.
- Pre-drill and attach baluster to rail using 2 screws at each baluster end.



8 FT. 2X4 LINE RAIL KIT

Preparation

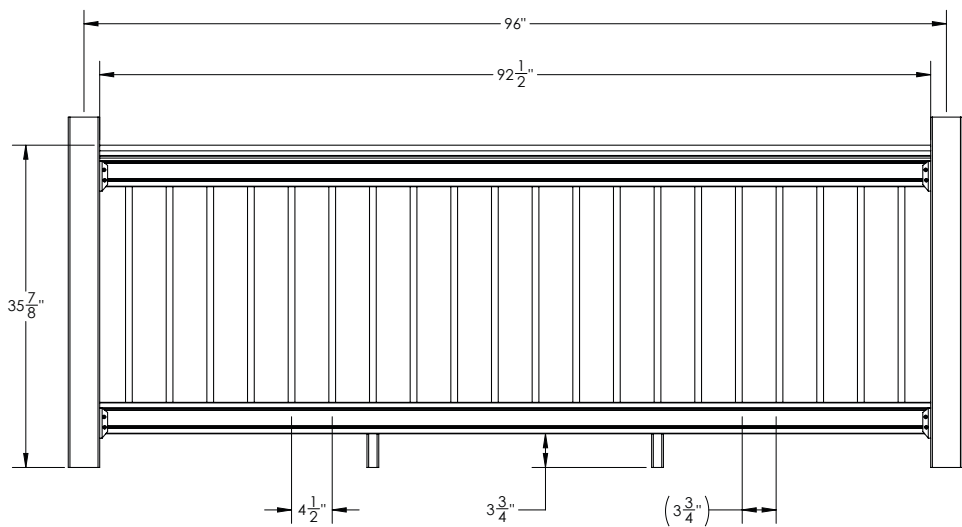
This rail may only be used in residential applications. Prior to construction, check with your local regulatory agency for special code requirements in your area. Typical requirements are minimum height from the walking surface to the top of the top rail of 36". All gaps are typically required to be less than 4". This rail kit is designed to be used with structural 4x4 posts properly secured at 8' on-center (o.c.) spacing. Pre-drill all screw locations to minimize splitting.

Instructions

- STEP 1:** Measure the distance between posts and cut the rails to size.
- STEP 2:** Determine the sweep beneath the bottom rail. Divide the overall length by three to determine support block spacing and attach using a 3-1/2" screw under the hole closest to these measurements. If the holes have not been pre-drilled, pre-drill with a 1/8" drill bit.
- STEP 3:** Prop the bottom rail in place between posts. Mark the location of the (4) 2x4 railing brackets and attach to the posts according to the included instructions.
- STEP 4:** Level and attach the bottom 2x4 rail to the 2x4 railing brackets.

BALUSTER STYLE ROUND AND SQUARE ALUMINUM BALUSTERS

- For an 8' o.c. rail with 4x4 posts, 20 balusters are needed.
- Install the combined top rail, by aligning the balusters to the pre-drilled holes at one end of the rail and working your way to the opposite end, ensuring that all of the balusters are secured between the two rails.
- Attach the top 2x4 rail to the 2x4 railing brackets.



6 FT. AND 8 FT. MOULDED CAP RAIL (SELECT STYLES)

Instructions

STEP 1: Place the moulded cap rail upside down on a flat surface. Next, place one of the 2x4 line rails into the moulded cap rail channel so that the holes are facing up. Starting from either end, fasten the top 2x4 to the cap rail using the (7) 3" screws through the holes indicated in **(Fig. 1)** or **(Fig. 2)**. If rails are trimmed, pre-drill any additional holes with a 1/8" drill bit and insert the screw into the next nearest hole.

STEP 2: Attach the cap rail by aligning the holes to the baluster at one end of the rail and working your way to the opposite end, ensuring that all of the balusters are secured between the two rails.

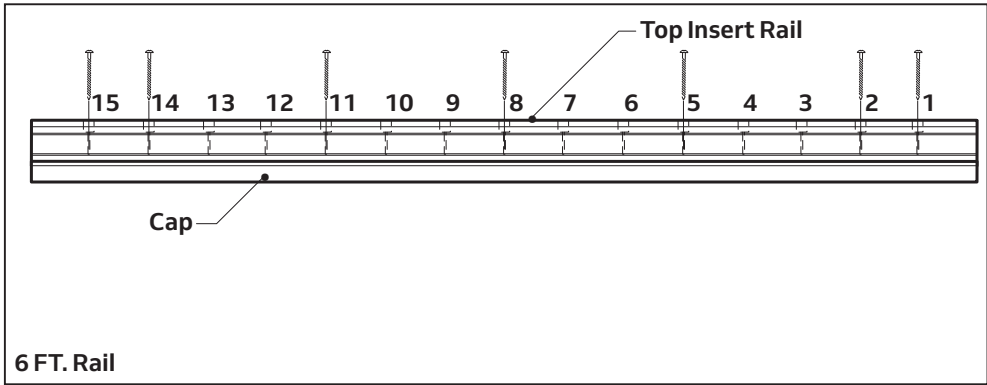
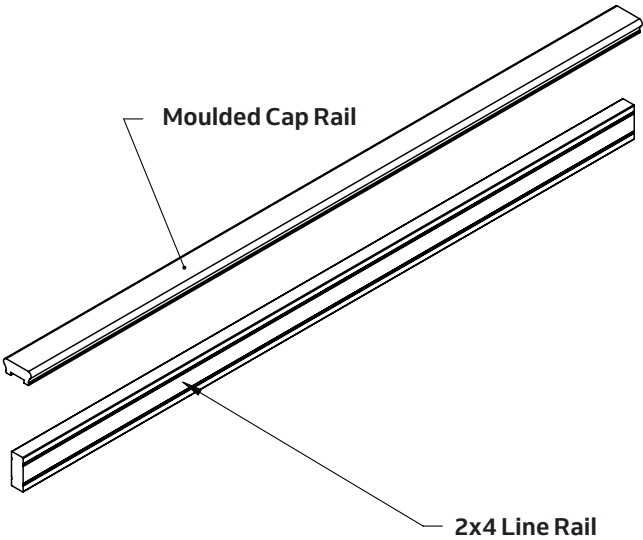


Fig. 1

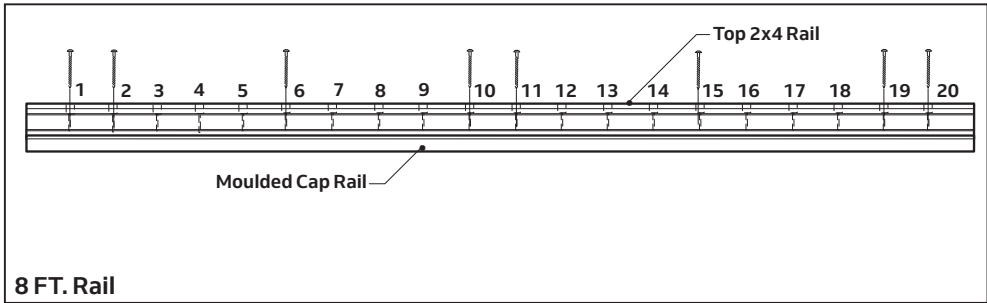


Fig. 2

NOTE: It is recommended to fasten a support block (sold separately) at the center of the bottom rail to the deck surface for spans greater than three feet.

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