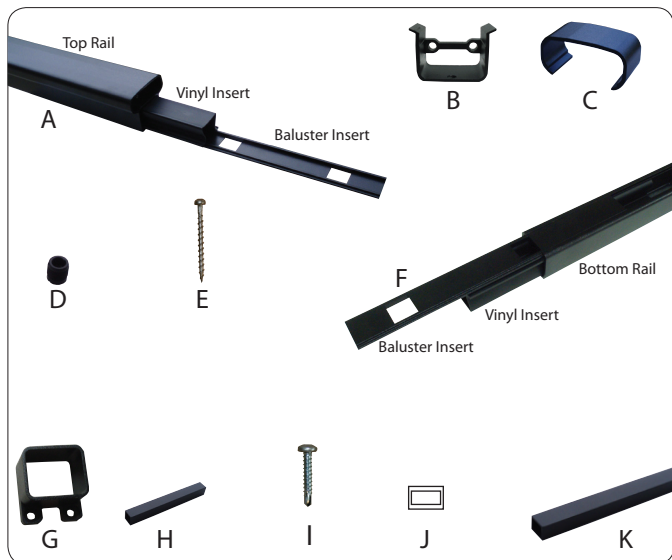


Instructions for Lincoln Aluminum Straight Rail

36" and 42" Heights



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Installer is responsible for quality workmanship and meeting all building codes.

Component List:

- A) Top Rail Assembly with Vinyl & Baluster Insert - 1
- B) Top Rail Bracket - 2
- C) Top Cover - 2
- D) Bottom Brace Plugs - 2
- E) #10 x 2" Self-Drilling Screws - 2
- F) Bottom Rail Assembly with Vinyl & Baluster Insert - 1
- G) Bottom Rail Bracket - 2
- H) Bottom Brace - 1
- I) #10 x 1" Self-Drilling Screws - 10
- J) Adhesive Tape - 1
- K) Balusters -

10 - 4' section	13 - 5' section
15 - 6' section	18 - 7' section
20 - 8' section	

Tools Required:

- Drill Bits: 5/32" & 7/32"
- #2 square drive hex bit 4" long
- Drill with Adjustable Clutch
- Miter Saw with Metal Cutting Blade
- Level
- Rubber Mallet or Wood Block
- Tape Measure
- 12" Combination Square
- 8" File
- Masking or Duct Tape
- Touch-up Paint - optional
- Center Punch - optional
- Silicone Adhesive - optional
- Shop Vac or blower - optional
- Always wear safety goggles

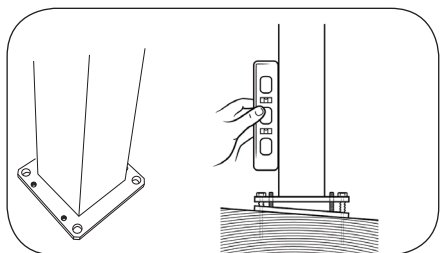
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ezTIPS

- Read and understand all instructions before starting your installation.
- Plan your railing project completely. A drawing or sketch is recommended.
- Check local building codes.
- Check all cartons for proper components.
- Paint all cut ends to protect from the environment.
- Use two people for best results.
- Wear personal protective equipment, such as safety glasses, gloves, etc.
- Pre-drilling of all holes is recommended.
- Do not over-tighten screws. Set clutch on drill to lowest workable setting.

1

Aluminum Post Installation

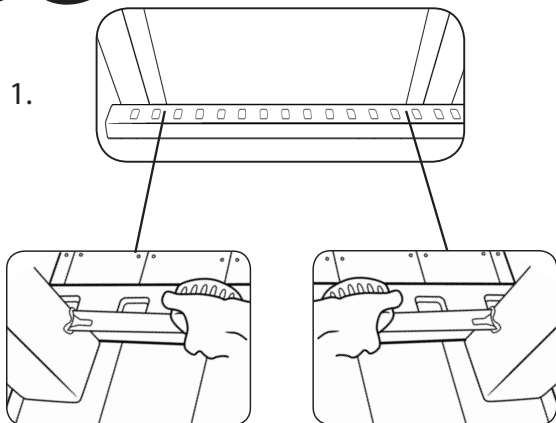


1. Measure and locate all posts.
2. Install posts into frame of deck. Standard deck boards do not provide enough support. Additional blocking may be required for proper post installation. **It is the responsibility of the installer to ensure proper installation, including adherence to all local codes.**
3. Level your posts using the kit provided. Posts must be straight, plumb, and at the same height.
4. Fasteners must be installed in all 4 holes. The posts will accept bolts up to 3/8" diameter. Bolts are not provided.

2

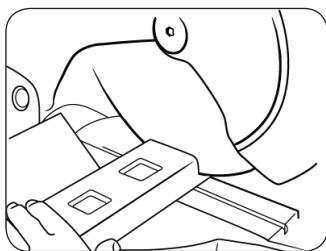
Measure & Cut Bottom & Top Rails

1.



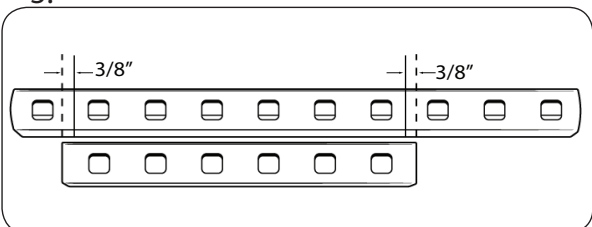
1. Lay bottom rail (F) in front of posts and mark rail for proper cutting on both ends. Measure from the post to the edge of the first baluster hole. The distance should be no less than 1¼" on both ends. If you have less than 1¼", slide your rail to the left or right to remove a hole. This will allow for balusters to be centered and allow enough room for brackets. In some cases, a longer rail section may be needed to achieve perfect baluster spacing. Put a piece of tape over the baluster rail insert to keep it from moving PRIOR to cutting. Double check your marks before you cut.

2.



2. Slowly cut your bottom rail. To reduce scratching your post, cut in the middle of your mark. This will give you about 1/8" clearance between your post and the rail.

3.



3. Align your bottom rail with your top rail (A), keeping the baluster holes even. Mark your top rail. Measure in 3/8" per side, your top rail needs to be ¾" shorter than the bottom rail. Place a piece of tape over the baluster rail insert to keep it from moving PRIOR to cutting. Double check your marks before you cut.

4. Cut your top rail. Cut to the outside of your marks.

5. File any sharp edges and remove all metal shavings. Then paint all exposed edges with a latex paint for metal. Allow painted edges to dry before installation.

Note: Color Guard touch-up paint is available for purchase.

3

Insert Balusters



1. Lay the bottom rail (F) onto a clean surface, such as the carton from your railings. With the baluster holes facing up, install balusters (K) into the bottom rail.

2. Install the top rail (A) onto the balusters (K). This is best done with 2 people. Be sure all balusters are fully seated into the rails. Each baluster should make contact with the vinyl rail insert located inside of the top and bottom rail. Turn the rail assembly over. Use the carton again to protect the top rail. Make sure the carton is clean to prevent scratches.

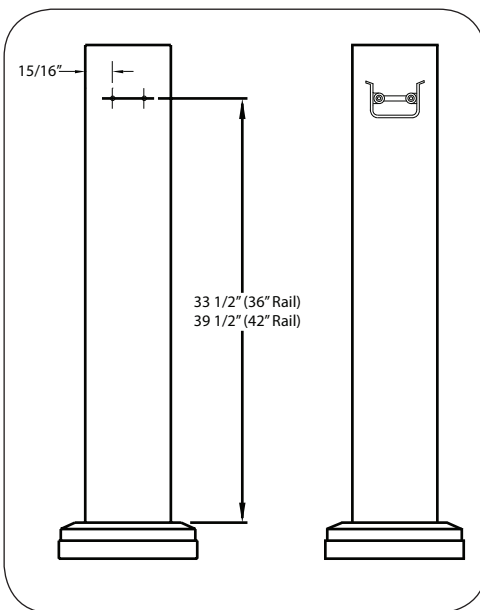
4

Attach Bottom Brace Plug

1. Install bottom brace connectors (D) to the bottom of the bottom rail using one (I) #10x1 self-drill screw. Rails less than 72" require at least (1) connector, centered. Rails over 72" require (2) connectors evenly spaced. Pre-drill hole with 5/32" drill bit. Turn the assembled rail section upright. Set rail assembly aside.

5

Attach Post Collar



1. Place post collar over post. Silicone adhesive may be used to keep collar secure. Measure up 33½" (36" rail) or 39½" (42" rail) from the top of the collar and mark a level horizontal line on your post. This measurement will provide approximately 2" between your bottom rail and your deck. **Check your local building code before making any changes.**
2. Align screw holes on top bracket to the horizontal line and mark both holes. Pre-drill holes with a 5/32" drill bit.
- 3 Attach top bracket (B) with (2) #10x1 screws (I).
4. Repeat this step on your other post, or your wall. Check that your horizontal marks are level before drilling holes for second bracket.
5. If you are mounting any brackets to anything other than a metal post, you will need to provide your own fasteners. The screws provided are only to be used with metal posts.
6. Set your assembled rail into your top brackets. Check for level. Make sure your balusters are seated completely into each rail, see step 3.2.

6

Attach Rail Assembly

1. Measure the gap between the bottom of the bottom rail (F) and the deck where the bottom brace connectors (D) are located. Remove the rail assembly. Cut and install your bottom brace(s) (H). Slide the bottom brackets (G) onto the bottom rail (F). Be sure the tabs on the bottom bracket (G) are facing down and out. Slide the top covers (C) onto the top rail (A). Place your rail assembly back into the top brackets (B).
2. Locate the hole on the bottom of the top bracket(B). Using a 7/32" drill bit, carefully drill through the top rail baluster insert (A3), no more than ¼" deep. Install (1) #10x2" self-drilling screw into center wall of the top rail (A1).
3. Slide or tap top cover (C) into place. Use a wood block to prevent scratches or dents. **DO NOT USE A HAMMER.** Use the tape (J) provided, if needed, to secure top cover if it is loose.
4. Check that the bottom rail is parallel to the top rail (A). Make sure the bottom bracket (G) is centered on your post or is plumb on your wall. Install (2) #10x1 painted screws (I) into bottom bracket (G).
5. Repeat steps 6.2 through 6.4 on the other side of your rail assembly.
6. Install post cap.
7. Touch-up any nicks or scratches with touch-up paint.