

Redi-Rail Fixed Aluminum Stair



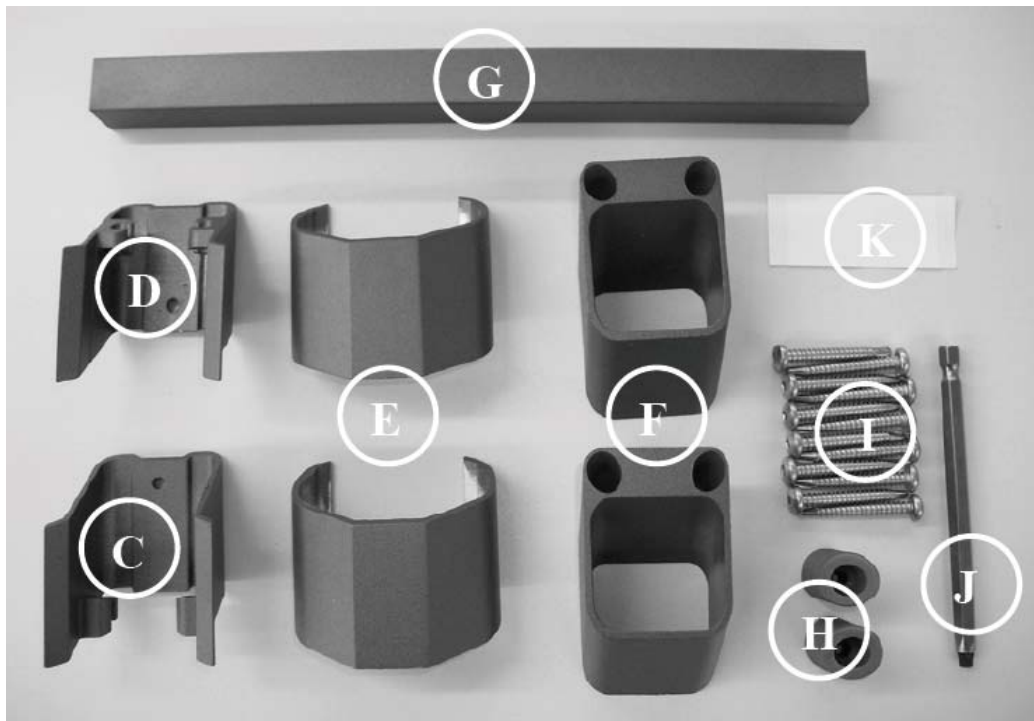
INSTALLATION INSTRUCTIONS



PARTS LIST
A - Top rail with connectors (not pictured)
B - Bottom rail with connectors (not pictured)
C - Top post saddle bracket
D - Bottom post saddle bracket
E - Saddle bracket cover (2)
F - Lower bracket (2)
G - Support block material
H - Support block connector (2)
I - #10 x 1 1/2" self-drilling screws (12)
J - 3 1/2" #2 square driver bit
K - Adhesive tabs

TOOLS REQUIRED
Drill
Drill bit 5/32" (.156")
Hacksaw
Level tape measure
Rubber mallet
Touchup paint

Note: Post and balusters are packaged separately.



RED-RAIL FIXED ALUMINUM STAIR

- FOR A SUCCESSFUL INSTALLATION:**
- Read the instructions completely before beginning the installation.
 - Plan your railing project. Sketch your project with the actual measurements of your deck or balcony with the location of the posts for the railing that needs to be installed.
 - Check local building codes to ensure compliance.
 - Installation is best accomplished with two people.
 - Wear personal protection equipment; safety glasses, etc.
 - Check carton(s) to determine part count is complete.
 - After cutting rails, balusters, or posts, paint exposed metal for maximum protection against the elements.
 - Use care not to over-torque the screws. Pre-drilling is recommended.

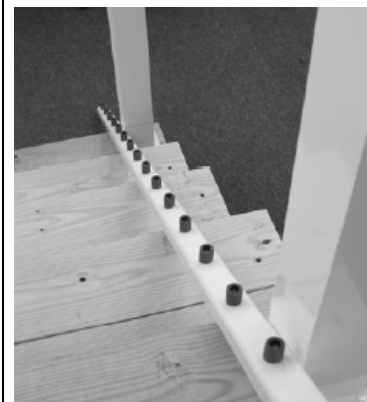
POSTS:

1. Begin by determining where the top and bottom post will be located. Mark the desired location of the post.

Note: To ensure post location is compatible with railing, prior to securing to the deck, place both posts in position, and lay the bottom rail along the stair-nosing from top to bottom adjacent to both post. On the rail side of the post, measure up from the top of the rail and ensure there is a minimum of 34" to the top of the post. Post location may have to be adjusted to ensure minimum is obtained. Repeat this step for the bottom post.

- For railing mounted 36" high use a 44" post at the bottom of the stairs.
- For railing mounted 42" high use a 54" post at the bottom of the stairs.

For a wooden deck position the post so the fasteners will go into the floor joists, and make sure the decking is firmly attached to the joists at the location of the posts. If necessary, use wood blocking as reinforcement underneath the decking where the posts are located. Fasteners which hold the brackets to the surface should be able to secure to joist or reinforcement braces, not just the decking itself.



2. Four 3/8" diameter mounting holes are provided on the base. When final position is determined mark hole locations and remove the post assembly.

3. Drill the marked locations into the decking and reinforcement.

4. Remount the post assembly. Insert fasteners (not provided) then secure the base to the deck structure. Make certain the posts are plumb. If the post requires adjustment, add stainless steel washers under the base plate. Do not install the base post trim and post capitals until step 8.

Note: When installing Redi-Rail Post onto treated wood surface, install ACQ pad between the post base and the treated surface.

5. Lay the bottom rail (B), balusters facing up and centered between the posts, on the stair nosing from top to bottom, adjacent to the posts and mark a line on the rail from the inside of each post. Also, make a reference mark on the bracket side of both posts at the point where the top of the rail meets the post.

Note: This reference mark will be used to locate saddle brackets in step 9.



6. Place the top rail (A) next to the bottom rail (B), align the baluster connectors and duplicate the marks from the bottom rail cut line onto the top rail. Now mark the top rail 5/8" shorter on each end; this is the cut line for top rail. Only the top rail is cut 5/8" shorter on each end.

7. Cut the rails along the marked lines. Paint exposed cut surfaces with an exterior metal paint.

8. Install the base post trim on the upper and lower posts.

9. To install the saddle bracket (C&D) on both upper and lower post, measure and mark a level line up from the reference marks: 31" for 36" railing or 37" for 42" rail.

10. Align screw holes in the upper and lower saddle brackets (C&D) on the marked lines. Make sure the brackets are centered on the posts. Mark the screw hole locations with a pencil.

11. Pre-drill the holes for both saddle brackets.

12. Attach saddle brackets (C&D) with self-drilling screws (I).

FIXED STAIR:

1. Install support block connectors (H) using self-drilling screw (I) to the underside of bottom rail (B).
Note: One support block, cut from support block material (G), is recommended for rails measuring 72" in length or less; two support blocks for longer lengths. If one support block is required, install connector (H) at center point of bottom rail (B). If two support blocks are required, install connectors (H) equal distance from each end of the bottom rail (B).

2. To assemble rail, begin with top rail (A) and insert balusters over pre-installed connectors. Use a rubber mallet to tap the balusters into place.
Note: It is recommended to use the box as a pad to prevent scuffing of the painted finish. If installing square balusters, make sure they are properly seated in the slot on the underside of the top rail to prevent twisting.

3. Attach balusters to bottom rail (B) beginning at one end and working to the opposite end. Stand the assembly upside down on the surface of the box and tap the bottom rail with a rubber mallet to secure the balusters in place. Stand assembly upright.

4. Slide bracket covers (E) over each end of the top rail (A) so the angle of the cover will align with the post.
Note: Slide a couple of inches from the end of the rail for clearance. A small piece of tape may be required to hold the bracket covers in place.

5. Slide bottom brackets (F) with the countersunk holes facing toward the balusters, over each end of the bottom rail (B). When installing bottom bracket (F) on the lower post end of the bottom rail (B), turn the bracket so the screw holes are accessible from the top.

6. Set the rail assembly into the saddle brackets letting the bottom rail hang freely between the posts.

7. At the point(s) where you installed support block connectors (step 2), carefully measure the distance from the underside of the bottom rail (B) to the floor. Cut support block material (G) to fit. Slip support blocks over connectors (H). Slide the rail back into place and make certain the rail is plumb.
Note: After cutting support brackets, paint exposed metal for protection against the elements.

8. Slide and hold the bracket (F) firmly against the top post. Secure the bracket with self-drilling screws (I). Repeat the process securing bracket (F) to the bottom post using self-drilling screws (I).
Note: Screw holes in brackets (F) are angled to make mounting the brackets easier.

9. Apply adhesive tab (K) to flat, top surface of top rail (A), near the post. Slide bracket covers (E) to interlock with flange on the saddle brackets (C&D).

10. Screw self-drilling screws (I) into the top rail (A).

