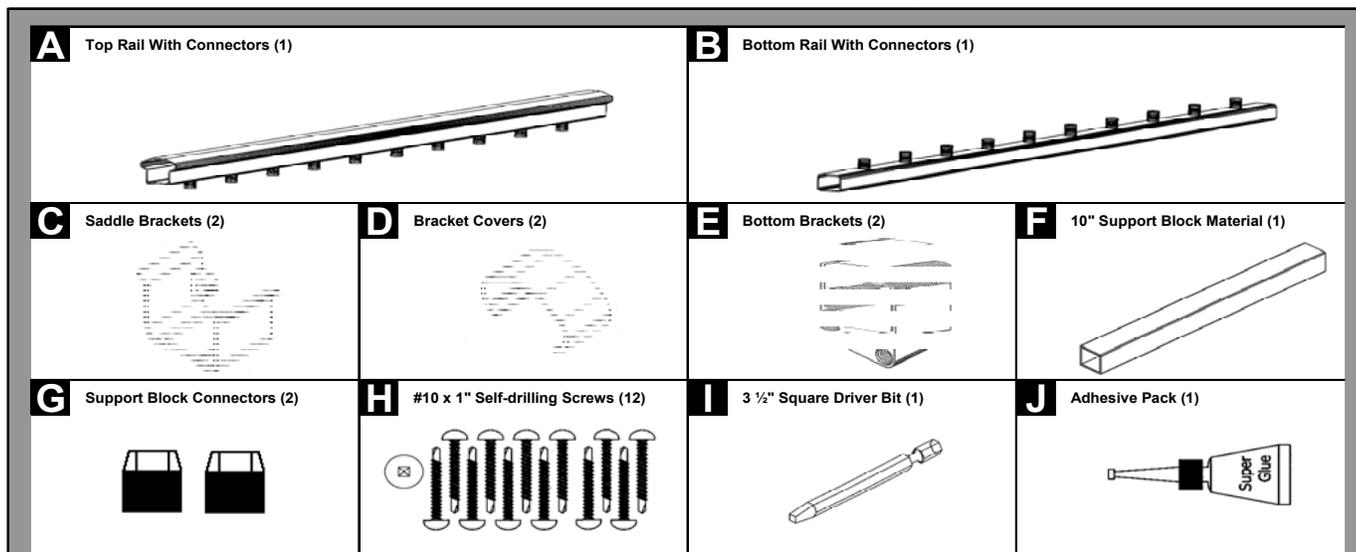


# Worthington Millwork, LLC

## Aluminum Rail and Post Installation Instructions

### Redi-Rail Level Rail Kit Contents



**Installation Requires Baluster Kit Packed Separately**

#### Recommended Tools

Level	Drill with adjustable clutch	Hack saw with metal cutting blade	Tape Measure	Drill Bit 5/32" (.156")	Rubber Mallet	Non-contrasting Touch-up Paint
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#### **SUGGESTIONS FOR A SUCCESSFUL INSTALLATION**

*Read the instructions completely before beginning the installation.*

*Check local building codes to ensure compliance.*

*Wear personal protection equipment; safety glasses, etc.*

*Check carton to determine part count is complete.*

*After cutting rails, balusters or brackets, paint exposed metal for maximum protection against elements.*

*Installation is best accomplished with two people.*

*Use care not to over-torque the screws. Pre-drilling is recommended.*

## **Redi-Post Installation Instructions**

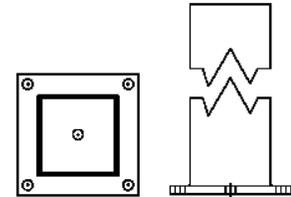
#### Installation Tips:

- Plan and draw 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.
1. Install the first post by attaching the aluminum base to the surface of the deck or balcony. *(When installing RediPost onto treated wood surface, install ACQ pad between the post base and the treated surface.)* Position the post so the fastener 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

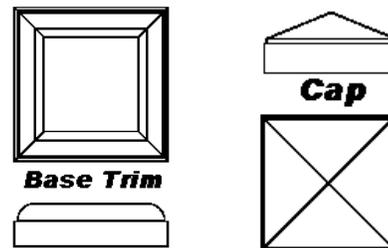
underneath the decking where the posts are located. Fasteners which hold the brackets to the surface should be able to secure to joist or reinforcement braces, not just the decking itself.

*When installing aluminum post on top of wood surface, screws must be lagged into at least 3" of solid wood. 5/4" or 1 1/2" deck boards do not provide sufficient material for a safe installation. If necessary, add additional material to the underside of the surface.*

2. Position the post assembly to the deck surface. Four 3/8" diameter mounting holes are provided on the base. Mark base hole locations and remove the post assembly. Drill the marked locations into the decking and reinforcement. Remount the post assembly. Insert fasteners (not provided) then secure the base to the deck structure.



3. Finish by sliding the base trim to the bottom of the post assembly to cover the post base. Install the post cap. Silicone or water based caulking may be used to secure the cap and base trims.



## Redi-Rail/Level Rail Installation Instructions

1. Carefully measure the opening between posts and calculate the length of rail that needs to be cut off <sup>(+)</sup>. Divide the cutoff amount in half, and starting with the bottom rail **(B)**, transfer and mark the measurement to each end of the rail. Carefully cut the rail. Mark top rail **(A)** and cut.

*For clearance purposes the top rail is pre-cut 3/4" shorter than the bottom rail. When cutting rails to length, always remove half of the cut from each end; this allows each end-baluster to be of equal distance from the nearest post or wall.*



<sup>(+)</sup> For the sake of baluster spacing or personal preference, most or all of the trim length could be cut from one end of both rails. Make this determination before cutting the rails. Always refer to local building code requirements to determine the baluster spacing requirements in your area (4" maximum is typical). *After cutting rails, paint exposed metal for protection against the elements.*

2. Install support block connectors **(G)** using self-drilling screw **(H)** to the underside of bottom rail **(B)**.

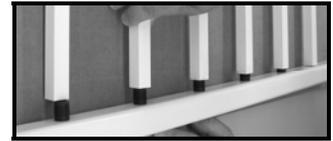
*One support block, cut from support block material **(F)**, is recommended for rails measuring 72" in length or less; two support blocks for longer lengths. If one support block is required, install connector **(G)** at center point of bottom rail **(B)**. If two support blocks are required, install connectors **(G)** equal distance from each end of the bottom rail **(B)**.*



3. To assemble rail, begin with top rail **(A)** and insert balusters over pre-installed connectors. Firmly tap each baluster with a rubber mallet to ensure the baluster is fully seated against the top rail.  
*Recommend use of 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 under side of the top rail to prevent twisting.*



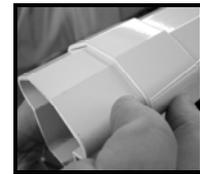
4. Attach balusters to bottom rail **(B)** beginning at one end and working to opposite end. Stand the assembly upside down on the surface of the box and firmly tap the bottom rail with a rubber mallet to secure the balusters in place. Stand assembly upright.



5. Slide bottom brackets **(E)** with screw holes down and countersunk holes facing toward the balusters, over each end of the bottom rail **(B)**.



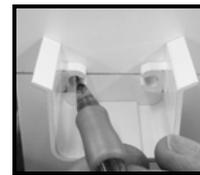
6. Slide bracket covers **(D)** over each end of the top rail **(A)**.  
*Slide about an inch from the end of the rail for clearance.*



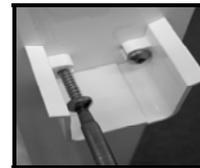
7. Most codes require the underside of the bottom rail to be a minimum of 2" from the floor. To accomplish this, measure up 34½" (36" rail height) or 40½" (42" rail height) from the floor and mark a level, horizontal line on the post or wall.  
*This measurement may vary by local code or personal preference.*



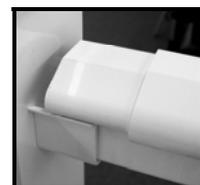
8. Align screw holes in saddle bracket **(C)** on the horizontal line making certain the bracket is centered on the post. Mark screw locations. Repeat process at opposite end.



9. Attach both saddle brackets **(C)** with self-drilling screws **(H)**. Pre-drilling is recommended.

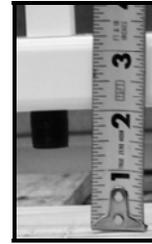


10. Set the rail assembly into the saddle brackets letting the bottom rail hang freely between the posts.  
*Check for level.*



11. 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 (**F**) to fit. Slip support blocks over connectors (**G**). Slide the rail back into place and make certain the rail is plumb.

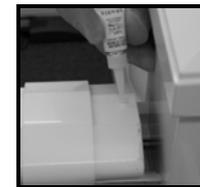
*After cutting support brackets, paint exposed metal for protection against the elements.*



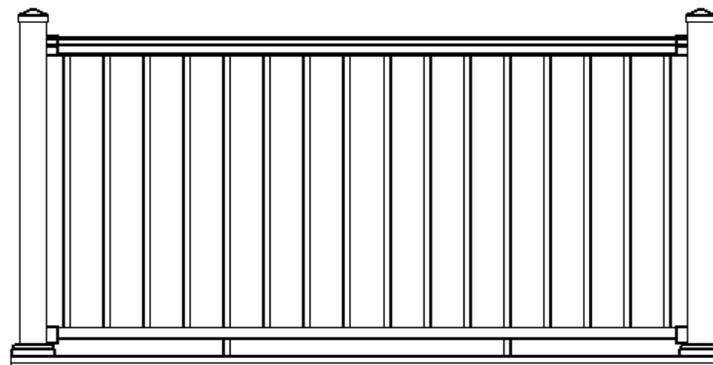
12. Slide and hold the bracket (**E**) firmly against the post or wall. Secure the bracket with self-drilling screws (**H**). Repeat the process at the other side. *Screw holes in bracket (**E**) are angled to make mounting the brackets easier.*



13. Apply a small drop of glue (**J**) to flat, top surface of top rail (**A**), near the post. Slide bracket cover (**D**) to interlock with flange on the saddle bracket (**C**). Make sure glue does not come into contact with any exposed surfaces.



14. Screw self-drilling screws (**H**) into the top rail (**A**) from the underside of each saddle bracket (**C**) to securely fasten the rail.



Installed View