

Riviera Series

(Style C30, C301, C30R, C301R, C31, C311, C32, C321, C33, C331, C34, C341)

Installation Instructions

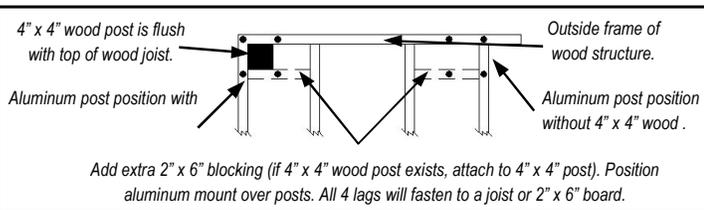


- These instructions must be followed exactly as written and the materials used must be exactly as shown in the instructions. Any deviation from the instructions or variation in the materials used/installed may result in an unsuccessful installation.
- When core drilling any post product where water can build up, the installer is responsible to drill a 1/4" hole as close to the bottom of the post by concrete as possible. If there is no weep hole, you may have damage from moisture build up and freezing thus potentially voiding the powder coating warranty.

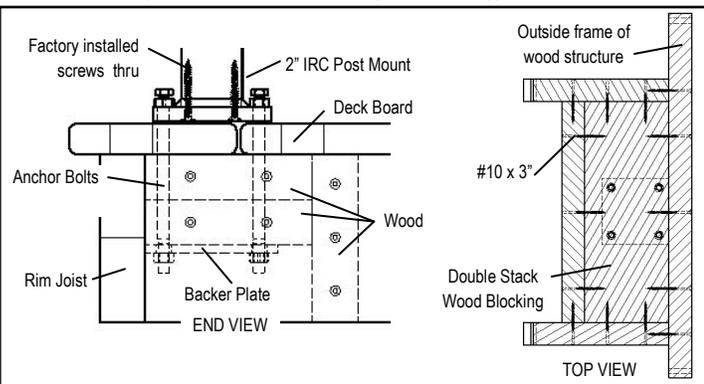
Installing Alum. Post w/ Adjustable Plate

NOTE: The installer is responsible to have the substructure strong enough to support the post for what it is rated.

1. Place the (2) stainless steel strips below the plate under the leveling bolts.
2. **a. For general installation:** fasten aluminum post to wood surface using (4) 3/8" x 5" or longer stainless steel lags (lags not included). **WARNING: When installing the Aluminum Post on top of a wood structure, the 5" lags MUST be lagged into at least 4" of solid wood! It will not be strong enough if it is fastened into a 5/4" or a 1 1/2" thick deck board!** Below is an example of how to design the wood structure to accept the Aluminum Post. Any other way must meet or exceed these qualifications.



b. For IRC wood surface installation: attach wood blocking to substructure with #10 x 3" wood screws. Fasten aluminum post using (4) 3/8" x 5-1/2" bolts (anchors not included) thru aluminum backer plate (sold separately) as shown below.



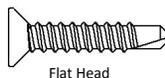
c. For concrete installation, fasten aluminum post to concrete using (4) 3/8" x 3" or longer concrete anchors (anchors not included.)

3. Use a 1/2" open end wrench to level aluminum post with the leveling bolts on the welded plate.
4. Attach caps. Lightly tap with rubber mallet if needed.

Angle (Swivel) Mount

1. **a.** Position bottom swivel mount base so the bottom of the rail has no more than a 2" clearance. (NOTE: A 1 3/8" spacer may be placed on the welded 3/8" plate of the post to reach the 2" clearance. Use 1/4" spacer for post with 1/2" plate.)
b. Measure up 27-1/2" (for 36" tall railing) or 33-1/2" (for 42" tall railing) from top of bottom mount to top of mid rail mount. Measure up 5-1/8" from top of mid rail mount to top of top rail mount.

2. Keeping base of mount centered and pin hole turned down, fasten bases to post with pan head self-tapping screws (provided).



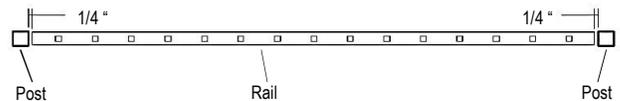
Angle (Swivel) Mount Cont'd

3. Angle the swivel mount after it is installed on post. Make sure set screw at back of cup is snug. Use a 3/32 Allen wrench to tighten if needed. Do not over tighten. Measure from back of cup at one end to back of cup at other end to determine rail length. Cut rails.
4. Assemble sections as specified in Standard (Level) railing steps 5-8.

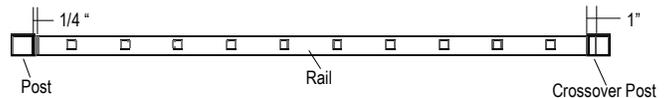
Standard (Level) Railing

Note: Top rail is 1" longer on each end to accommodate Crossover Railing.

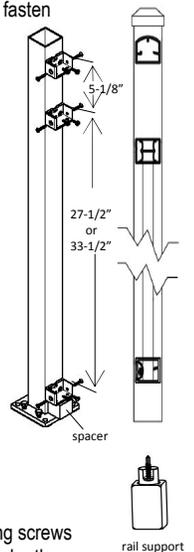
1. Cut the rails to length by holding rails against posts. Position so there will be the same baluster spacing on each end of the rails if possible. Mark rails where they are to be cut. **Make sure rail is cut 1/4" shorter on each end to allow for mounts.** Cut rails.



Crossover railing- Cut bottom and mid rail same as above. For top rail, make end spacing exactly 1" longer on all ends connecting to the crossover post.



2. Attach bottom wall mount to post by positioning the bottom rail so there is no more than a 2" clearance. Keeping mount centered on post, fasten mount to post with pan head self-tapping screws (provided). A 1-3/8" spacer may be placed on the welded 3/8" plate of the post to reach the 2" clearance. Use a 1-1/4" spacer for posts with 1/2" plate.
3. Attach mid rail wall mount to post by measuring up 27-1/2" (for 36" Tall railing) or 33-1/2" (for 42" Tall railing) from top of bottom mount to top of mid rail mount. Keeping mount centered on post, fasten mount to post with self-tapping pan head screws (provided).
4. Attach top wall mount to post by measuring up 5-1/8" from top of the mid rail mount to top of the top mount. Keeping mount centered on post, fasten mount to post with self-tapping pan head screws (provided).
5. Fasten rail support to bottom side of bottom rail by inserting pan head self-tapping screw (provided) through center of threaded portion of support. This applies to all sections over 4ft long.
6. Place bottom rail in mounts and fasten with flat head self-tapping screws provided. On sections without a rail support, place a 2" block under the bottom rail before inserting balusters. Using a rubber mallet, tap balusters into routed holes making sure balusters are seated all the way into the rail. Hold mid rail at an angle above the balusters. Align with mounts. Starting at one end, feed first baluster into rail and tap lightly. Feed remaining seated balusters into rail, tapping lightly as you move to the other end making sure all balusters are against the top rib. Fasten mid rail through side of mount with flat head screw provided. Repeat above for small balusters and rings. Feed top rail same as mid rail. **Crossover railing-** Fasten top rail to crossover adaptor with pan head screws provided.
7. Snap covers on all mounts.
8. Attach 2 piece flair to all posts.



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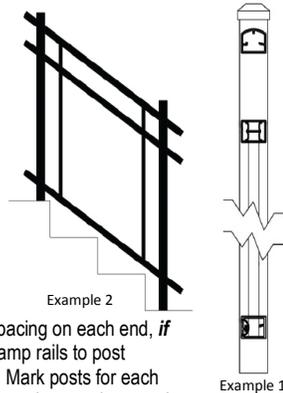
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- When core drilling any post product where water can build up, the installer is responsible to drill a 1/4" hole as close to the bottom of the post by concrete as possible. If there is no weep hole, you may have damage from moisture build up and freezing thus potentially voiding the powder coating warranty.

Stair Railing

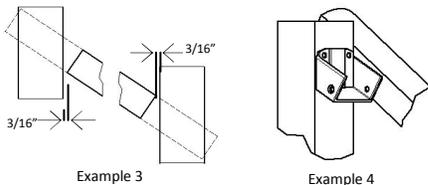
Important: Rails have to be positioned in the correct direction prior to cutting. If rails are not in the correct position, they may be cut incorrectly and balusters will not line up. Rails will have a PINK STICKER over the small hole at one end that indicates the lower end of the stairs. For the mid rail this hole also represents the bottom side of the rail.

1. Identify top, mid, and bottom stair rails. See Example 1.

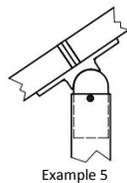
2. Lay bottom rail beside posts with approximately 1" clearance (use 1" spacer) between the rail and nose of step. Insert a baluster into the last hole on each end. Place top and mid rail on these balusters. Insert a baluster into (top side of mid rail) the last holes on each end of the mid rail. Place top rail on these balusters.



3. Position rails against posts and even the end spacing on each end, **if possible**, with balusters parallel to the post. Clamp rails to post (Example 2). Mark rails for cutting (Example 3). Mark posts for each mount position (Example 4). Cut rails 3/16" shorter than mark on each end.

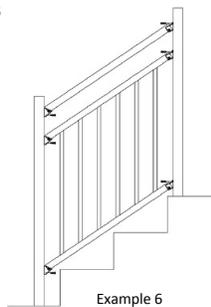
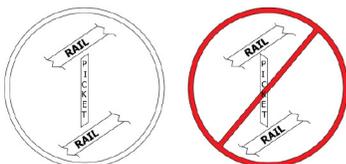


4. **Crossover Railing:** For crossover stairs, set stair crossover kit next to rails that are fastened to post to determine what height to cut post. Mark post and cut. Set crossover connector in post and fasten at proper height with self-tapping pan head screws provided. Set correct angle for crossover connector to match railing and tighten nut. Cut bottom and mid rails same as above in step 3 (Example 3). Mark top rail to cut making sure it fits snug into the crossover connector (Example 5).



5. Attach mounts to post with pan head self-tapping screws (provided). Attach bottom rail to mounts with flat head self-tapping screws (provided). Example 6

6. Seat balusters completely into bottom rail by tapping with rubber mallet.



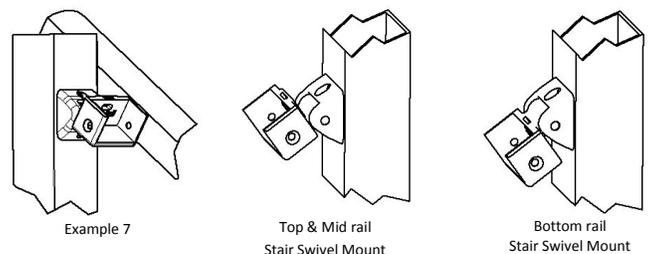
7. Hold mid rail at an angle above balusters. Insert balusters into mid rail starting at the top end and working towards the bottom of the stairs. Tap lightly with rubber mallet making sure the balusters are fully seated into mid rail. Repeat this with short balusters or rings and top rail.

Swivel Stair Mount Cont'd

8. Attach top and mid rail to mounts by inserting flat head self-tapping screws (provided) through the side of the mounts. Lightly tap mount covers onto mounts. (Use caution when installing covers by applying pressure directly on top of the cover tab.)
9. Attach 2-piece flairs to all posts.

Swivel Stair Mount

1. Identify top, mid and bottom rails, top mid and bottom stair swivel mounts.
2. Lay bottom rail (with approximately 1" clearance from the nose of the steps) beside the posts. Determine where the end holes will be on each end and place a baluster in those holes. Place top and mid rail on these balusters. Holding rails against posts, determine end spacing making sure end spacing is even between post and balusters. Clamp rails to post (Example 2). Hold swivel stair mounts up against posts and beside the rail to determine where rails are to be cut to fit inside the swivel stair mounts. Mark posts for each stair swivel mount position (Example 7). NOTE: This will vary depending on angle of stairs. Cut rails. Cut top rail at same length as mid and bottom rail unless using crossover railing.
3. Attach bottom swivel mount base so the bottom rail has approximately 1" clearance from the nose of the step. (NOTE: A 1" spacer may be placed on the nose of the step to reach the 1" clearance. Fasten base to post with pan head self-tapping screws (provided).)
4. Attach top and mid rail swivel mount bases to post using pan head self-tapping screws (provided).
5. Attach bottom rail to bracket using flat head self-tapping screws (provided) on each side of rail.
6. Follow Standard Stair Railing steps 6-9 for assembly of section.



Video Installation Instruction
on YouTube

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