

Series 1750 Aluminum Railing

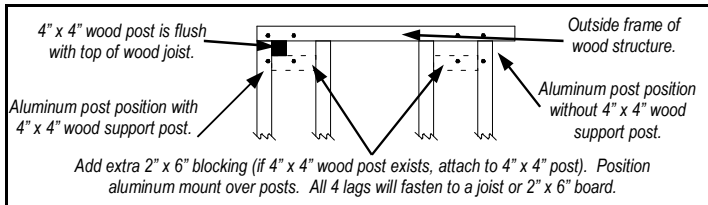
Installation Instructions

- 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 Aluminum Post w/Adjustable Plate

1. Place the (2) stainless steel strips below the plate under the leveling bolts.
2. **For concrete installation**, fasten aluminum post to concrete using (4) 3/8" x 3" or longer concrete anchors (anchors not included).

For wood surface installation, fasten aluminum post to wood surface using (4) 5/16" x 4" or longer stainless steel lags (lags not included). **WARNING: When installing the Aluminum Post on top of a wood structure, the 4" lags MUST be lagged into at least 3" 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.**



When installing an aluminum post on top of a vinyl decking system, an aluminum adapter kit will be needed. The kit contains (4) 1/4" x 5" stainless steel lags and (4) 1 1/2" aluminum bushings.

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

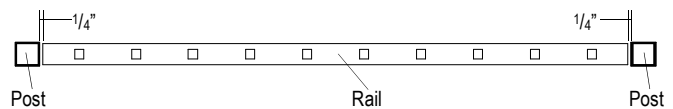
NOTE: Angle (Swivel) Mounts must be unassembled to be installed properly.

1. Attach bottom mount to posts by removing the set-screw located on the inside of the angle mount. Unscrew set-screw, remove retaining pin from the base.
2. Bottom mount base is to be positioned so the bottom rail has no more than a 2" clearance. *NOTE: A 1 1/4" spacer may be placed on the welded plate of the post to reach the 2" clearance.* Keeping base of mount centered and pin hole turned down, fasten base to post with self-tapping screws (provided).
3. Re-assemble mount with pin and set-screw.
4. Attach top mount to posts by removing set-screw located on the inside of the angle mount. Unscrew set-screw, remove retaining pin from the base. Measure up 32 5/8" (for 36" tall railing) or 38 5/8" (for 42" tall railing) from top of the bottom mount to top of the top mount. Keeping base of mount centered and pin hole turned down, fasten base to post with self-tapping screws (provided).
5. Re-assemble mount with pin and set-screw.
6. Cut rails to length and assemble sections as specified in Standard (Level) Railing.

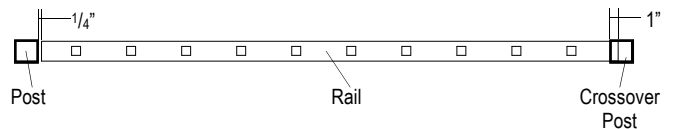
Standard (Level) Railing

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

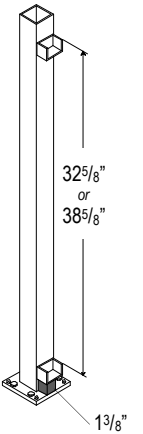
1. Cut the rails to length by holding rails against posts. Position so there will be the same spindle spacing on each end of the rails. Mark rails where they are to be cut. *NOTE: Make sure rail is cut a 1/4" shorter on each end to allow for mounts.* Cut rails.



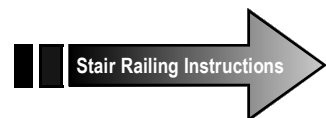
Crossover Railing - cut bottom rail same as above. For top rail, make end spacing exactly 1" longer on the end connecting to the crossover post.



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 self-tapping screws (provided). *NOTE: A 1 3/8" spacer may be placed on the welded plate of the post to reach the 2" clearance.*
3. Attach top wall mount to post by measuring up 32 5/8" (for 36" tall railing) or 38 5/8" (for 42" tall railing) from the top of the bottom mount to the top of the top mount. Keeping mount centered on post, fasten mount to post with self-tapping screws (provided).

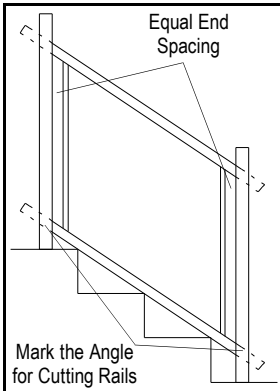


4. Assemble sections by placing bottom rail on a clean, flat surface. Using a rubber mallet, tap spindles into routed holes making sure spindles are all the way into the rail. Hold top rail at an angle above the spindles. Starting at one end, feed first spindle into routed hole and tap lightly. Feed remaining spindles into rail, tapping lightly as you move to the other end making sure all spindles are against the top rib.
5. Insert assembled sections into mounts by lightly tapping with a rubber mallet. Secure sections with screws through top mounts into top rails.
6. Snap covers on all mounts.
7. Attach flairs to all posts.



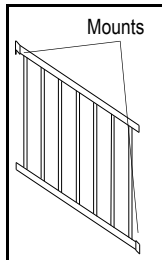
Stair Railing

1. Cut rails by laying bottom rail on steps beside the posts. Determine where the end holes will be on each end, place a spindle in those holes. Place top rail on these 2 spindles. Holding rail against posts, determine end spacing making sure it is even between posts and spindles. Mark rails for cutting. *NOTE: Make sure rail is cut 1/8" shorter to accommodate mounts.* Cut rails on desired angle.



Crossover Stair Railing - cut bottom rail same as above. For top rail, make end spacing exactly 1" longer on the end connecting to the crossover post. Cut rails on desired angle.

2. Assemble sections by placing bottom rail on a clean flat surface. Using a rubber mallet, tap spindles into routed holes making sure spindles are tapped all the way into rail. Hold top rail at an angle above spindles. Starting at one end, feed first spindle into routed hole and tap lightly. Feed remaining spindles into rail, tapping lightly as you move to the other end making sure all spindles are against top rib.
3. Rack section, then tap lightly across section to make sure spindles are in place.
4. Attach 32°/36° stair mounts by placing closed end mounts on rails of assembled section (one on top rail; one on bottom rail at opposite ends).
5. Take section and position in between posts. Bottom rail needs to be positioned so there is 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.*
6. Mark posts where closed end mounts will be attached.
7. Remove section, take closed end mounts off of section and attach to the posts with self-tapping screws (provided).
8. Slide open end mounts on rails (one on top rail; one on bottom rail at opposite ends).
9. Place section into closed end mounts that are attached to post, fasten open end mounts to posts.
10. Snap covers on mounts.
11. Attach flairs to all posts.



Swivel Stair Mount

NOTE: Swivel Stair Mounts must be unassembled to be installed properly.

1. Cut rails by laying 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 spindle. Place top rail on these 2 spindles. Holding rails against posts determine end spacing making sure end spacing is even between post and spindles. Hold swivel stair mounts up against posts beside the rail to determine where rails are to be cut to fit inside the swivel stair mounts. *NOTE: This will vary depending on angle of stairs.* Cut rails.
2. **Crossover Railing** - cut bottom rail same as above. For top rail, place on 2 end spindles making sure spindles are plum and crossover connector is set at proper angle. Mark rail to cut making sure it fits snug into the crossover connector. *NOTE: Crossover post and connector will first need installed to determine what length rails will be cut.* Cut rails.
3. Attaching bottom swivel mounts by removing the set-screw located on the inside of the swivel mount. Unscrew set-screw, remove the retaining pin from the base. Bottom swivel mount base is to be positioned (keeping base of mount centered and pin hole on one side) 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 self-tapping screws (provided). Re-assemble mount with pin and set-screw.
4. Attaching top swivel mounts by removing the set-screw located on the inside of the swivel mount. Unscrew set-screw, remove the retaining pin on the base. Measure up 32³/₄" (for 36" tall railing) or 38³/₄" (for 42" tall railing) from the top of the bottom mount to the top of the top mount. *NOTE: Keep base of mount centered and pin hole on one side.* Fasten base to post with self-tapping screws (provided). Re-assemble mount with pin and set-screw.
5. Assemble sections by placing bottom rail on a clean flat surface. Using a rubber mallet tap spindles into routed holes making sure spindles are tapped all the way into the rail. Hold top rail at an angle above spindles. *NOTE: Top rail to have opposite end spacing from bottom rail.* Starting at one end, feed first spindle into routed hole and tap lightly. Feed remaining spindles into rail, tapping lightly as you move to the other end making sure all spindles are against top rib.
6. Insert assembled sections into mount by lightly tapping with a rubber mallet. Secure sections with screws through top mounts into top rails and on the sides of the bottom rail.
7. Snap covers on all mounts.
8. Attach flairs to all posts.