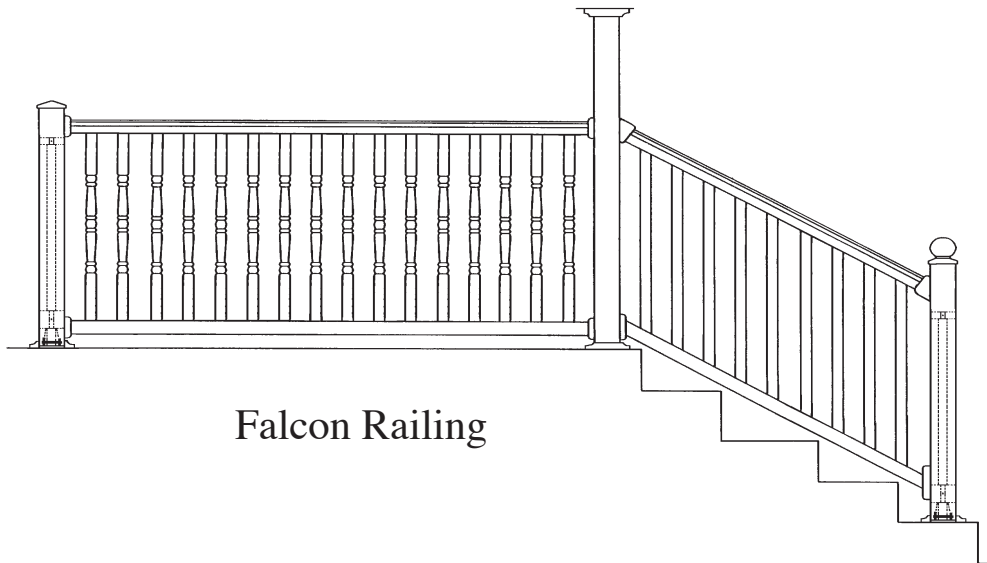


FALCON RAILING

INSTALLATION

INSTRUCTIONS



Falcon Railing

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.



Falcon Installation Instructions

Post Applications - 4" Aluminum Post Mount

Note: A 4" Aluminum Post Mount is to be used with our 4" x 4" x 38" to 52" Vinyl Posts.

Aluminum Post Mount for Concrete & Wood Applications.

Concrete Surface Installation:

Place aluminum post mount in position. Fasten aluminum post mount to concrete using (4) 1/4" x 3" concrete screws (screws not included). Slide the 4" vinyl post and flair down over the aluminum mount to approximately 6" from the floor. **If using an "A" Series Post, take top internal blocks off. These will not be needed.** Level vinyl post by using leveling nuts on aluminum post mount. A 9/16" open end wrench will be needed for this. Once all the leveling nuts are tight, slide the vinyl post with flair to the floor.

When railing system is installed, at least 2 screws from external railing mounts will go through vinyl post and into bottom block to secure the vinyl post to the mount.

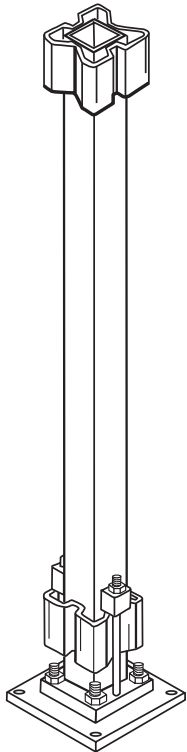
Wood Surface Installation:

Place aluminum post mount in position. Fasten aluminum post mount to wood surface using (4) 1/4" x 4" or longer stainless steel lags (lags not included). Slide the 4" vinyl post and flair down over the aluminum mount to approximately 6" from the floor. **If using an "A" Series Post, take top internal blocks off. These will not be needed.** Level vinyl post by using leveling nuts on aluminum post mount. A 9/16" open end wrench will be needed for this. Once all the leveling nuts are tight, slide the vinyl post with flair to the floor.

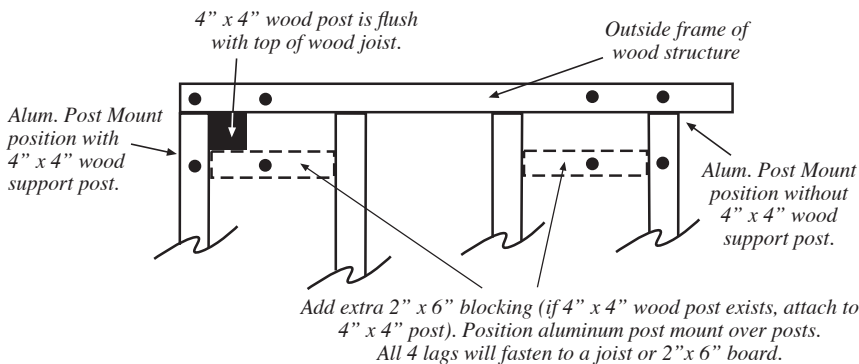
When railing system is installed, at least 2 screws from external railing mounts will go through vinyl post and into bottom block to secure the vinyl post to the mount.

WARNING: When installing the Aluminum Post Mount 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!

To the left is an example of how to design the wood structure to accept the Aluminum Post Mount. Any other way must meet or exceed these qualifications.



Aluminum Post Mount



When installing an Aluminum Post Mount on top of the PolyDECK® 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.

Post Applications - 4" x 4" Wood Support Posts

Note: A 4" x 4" Vinyl Post does not have any structural strength to support weight bearing roofs.

A 4" x 4" wood treated post (which measures 3 1/2" x 3 1/2") will slide inside vinyl post to support weight. Most of the time, your posts are installed after the roof is in place. Usually, there is a beam the post can be attached to. Following are steps needed to install this post system. We do realize you can run into many different situations at the job site. In those cases, field modifications may be needed.

Step 1:

Cut vinyl post and wood post to size. To determine wood post length, stack (2) top/bottom support post mounts and measure distance between mounts and beam. To determine vinyl post length, measure distance between floor and beam and deduct 1". This will ensure no weight bearing on the vinyl post.

NOTE: On wood, make sure there is structural strength to support the weight of the roof.

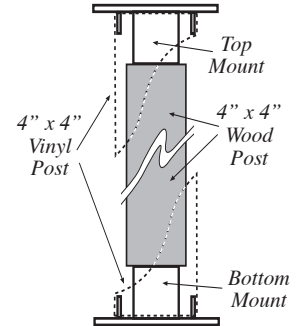
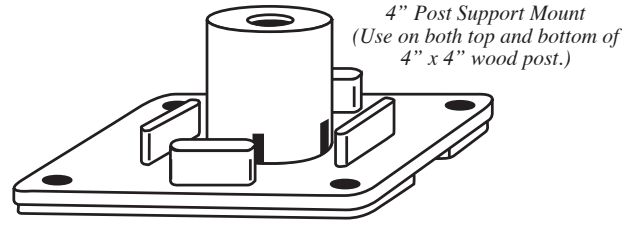
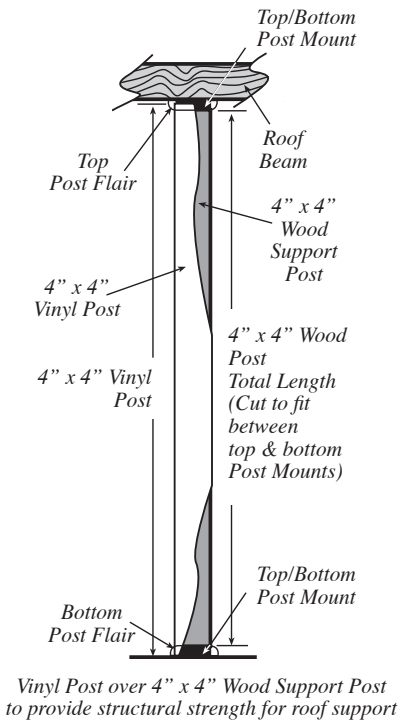
Step 2:

All material will need to be applied to the post before installation. Slide post flairs over top and bottom of post. Slide wood post inside vinyl post. Insert a post support mount on each end. The post support mount can be screwed to the wood post if desired (screws not included).

Step 3:

Slide post assembly into position. Insert 4 screws into each mount (screws not included). Slide post flairs into position. Tabs will snap-lock into post support mounts. Flairs may be glued if desired (glue not included). Hold top flair in place until glue has cured.

WARNING: Excessive glue may run down post.



Post Applications - 4" x 4" Wood Support Posts - For Decks

Note: The strongest and least expensive way to apply a 4" x 4" vinyl post to a deck is to EXTEND your wood 4" x 4"s above the deck approximately 24".

Following are steps to use when building a wood framed deck or working with an existing wood structure.

Step 1:

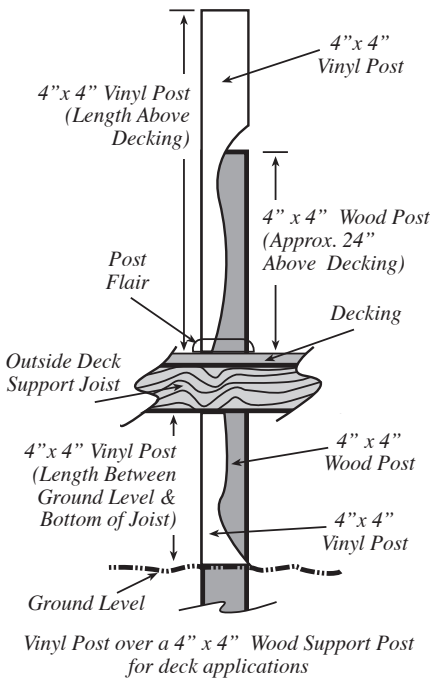
When building a new deck and using 4" x 4" wood posts to support the wood structure, layout your post setting so it works out for both wood frame structure and length of railing sections you plan to install.

Step 2:

Set all wood posts leaving approximately 24" of the post(s) above determined height of floor or deck surface.

NOTE: 24" of wood post is sufficient support for 36" or 42" vinyl railing systems. The higher the wood post is above the floor, the greater chance for the wood post to warp.

If vinyl posts are desired below the floor joist, slide these posts on before the support board is attached.



NOTE: These vinyl posts will go from the ground to the bottom of the joist support board.

Step 3:

After wood frame and deck flooring are installed, slide vinyl post over wood post. Slide post flair on at this time.

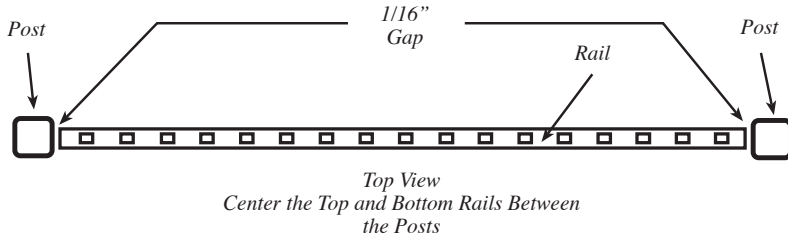
Option: Vinyl Posts on Existing Deck

When vinyl posts are to be attached to an existing wood deck and no wood posts are protruding above the deck floor, use an aluminum post mount (see instructions for wood surface) or install a 4" x 4" wood post as follows:

Step 1:

Cut a 4" x 4" hole in existing floor right inside joist support board. Install a wood 4" x 4" post to go to the bottom of the joist support board. This will extend above the deck floor approximately 24". Attach wood post with screws or bolts through support board and into wood post. After deck flooring is installed, slide vinyl post and flair over wood post.

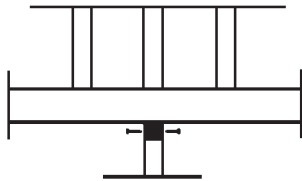
Level Railing Applications



Step 1:

Hold each rail against posts. Position so there will be the same spindle spacing on each end of the rail. Mark top and bottom rails where they need to be cut. Cut rails to length.

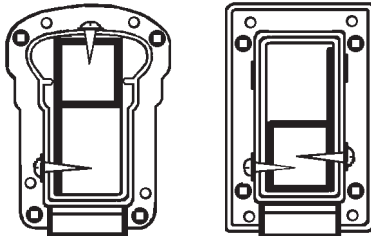
NOTE: Make sure rails are cut with a 1/16" gap on each end between rails and posts.



Step 2:

If installing an 8' or longer section of railing, a railing support is required. It needs to be attached to the bottom rail at this time to assure the section will not sag. Find center of bottom rail, screw plastic wood block to bottom side of rail. Slide vinyl extrusion over plastic wood block and screw to block with 2-screws (refer to diagram). All screws are provided for the railing support system.

Railing Support Block



Top Mount

Bottom Mount

One screw needs to go on the top of the mount and one on the side through the leg of the aluminum.

Step 3:

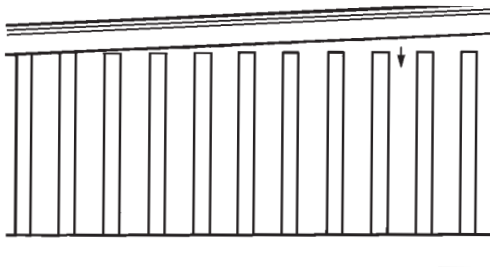
Slide a mount over each end of the rail (make sure profile side of mount is down). Place bottom rail in position. Standard gap from floor is 2".

Center screw mounts to post with (4) 1 1/4" screws (screws provided). Insert (2) 3/4" self-tapping screws through location tabs (screws provided). Insert vertical spindles into bottom rail holes. Position top rail into spindles one at a time. Position top rail between posts and fasten top mounts to post with screws (like bottom mount procedure).

If using standard height posts, top rail should be 2" down (2 3/8" down if using an aluminum post mount) from top of post. Should a special height railing be required, the spindles and post may be cut down.

Place mount covers over mounts. Tap each corner of cover to secure it to mount.

CAUTION: For mount cover, line up top two corners of cover and LIGHTLY TAP the corners with a hammer. Then, carefully line up bottom of cover and LIGHTLY TAP with a hammer.



Assemble Rail Sections

Stair Rail Applications

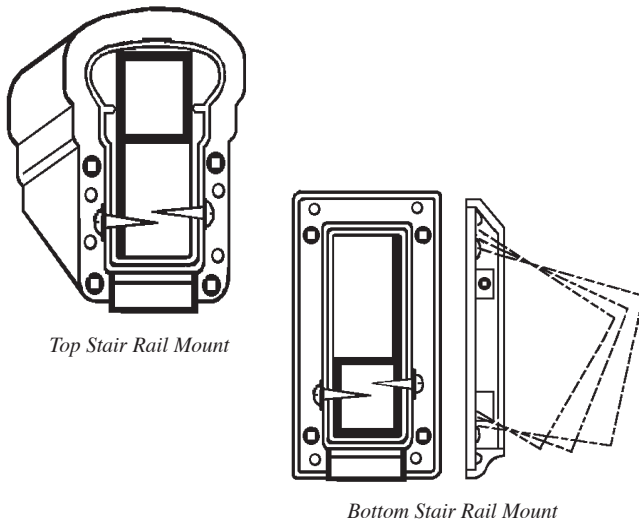
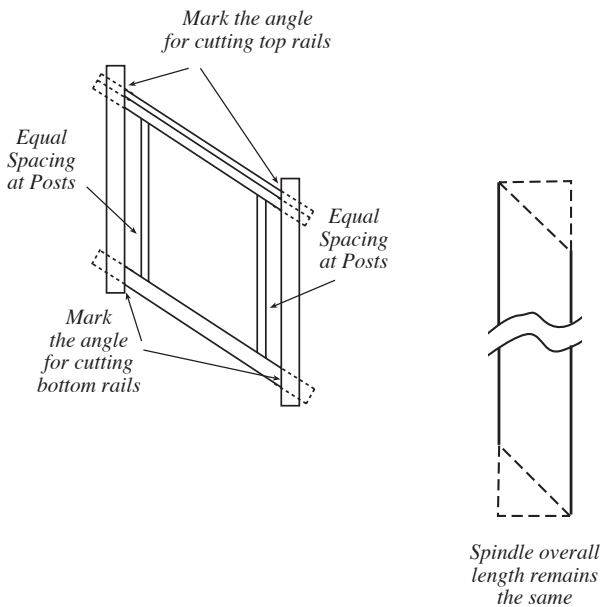
NOTE: Make sure to review level application sheet before these steps are attempted. Stair rail mounts are needed for stair rail application. Stair rail mounts are designed for up to a 35° application.

Step 1:

Lay the bottom rail on the steps and up against the posts. Determine the two end holes. Insert a spindle at each end of rail. Place top rail on top of these two spindles. Holding rails against posts, determine exact end spacings, mark rails for cutting. If spindles are too tight and not level, make holes larger by filing out holes accordingly. Then, cut both rails at angle marks. Cut at each end of the spindles at the same angle as top and bottom rails were cut.

NOTE: The overall length of spindles will not change.

NOTE: Above ground application requires a 48" post at the bottom step. Field cut after railing is installed. The "A" Series Post must be cut off at the bottom before railing is installed. "A" Series Post length for bottom of steps - 48" for 36" railing and 52" for 42" railing.



Step 2:

Slide a mount over each end of the bottom rail (make sure profile side of mount is down). Place bottom rail in position.

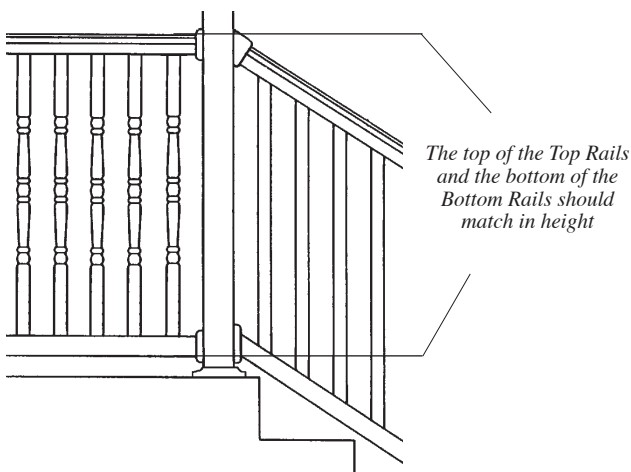
Center screw mounts to post with (4) 1 1/4" screws (screws provided). Insert (2) 3/4" self-tapping screws through location tabs (screws provided). Insert vertical spindles into bottom rail holes. Position top rail into spindles one at a time. Position top rail between posts and fasten top mounts to post with screws (like bottom mount procedure).

If using standard height posts, top rail should be 2" down from top of post. Should a special height railing be required, the spindles and post may be cut down.

Covers have knock outs for up to a 35° angle (or may be cut out for varying angles). Place mount covers over mounts. Tap each corner of cover to secure it to mount.

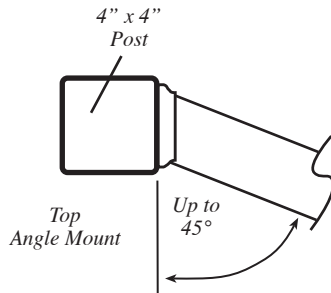
CAUTION: For mount cover, line up top two corners of cover and **LIGHTLY TAP** the corners with a hammer. Then, **carefully line up** bottom of cover and **LIGHTLY TAP** with a hammer.

The top to bottom measurement should be the same for both the stair rail and the level rail sections.



Angle Applications

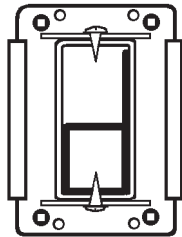
NOTE: Make sure to review the level application sheet before these steps are attempted. Angle mounts are needed for level application. These mounts can be used up to a 45° angle.



Step 1:

Cut rails to correct length, angle to fit in between mounts. Make sure it is cut to be the same spindle spacing at each end of the rails.

NOTE: Attach mounts to rail... **BEFORE** attaching to post.



Bottom Angle Mount

Step 2:

Bottom Mount...

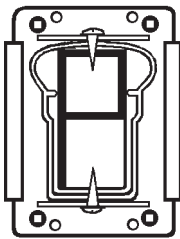
Place mounts on rail. Insert (1) 3/4" self-tapping screw through location tab (screws provided). This screw will go through both the vinyl and aluminum. Position rail. Center screw mounts to post with (4) 1 1/4" screws (screws provided). Screw (1) 3/4" screw through location tabs on the top of the bottom mount.

Top Mount...

Use same procedure as bottom mount except, predrill pilot hole on top of mount and rail.

Side wall of mount may need to be cut out to accept the top portion of the top rail, depending on the angle. (See example)

Place mount covers over mounts. Tap each corner of cover to secure it to mount.



Top Angle Mount

