



PHOENIX FENCE VINYL PRODUCTS

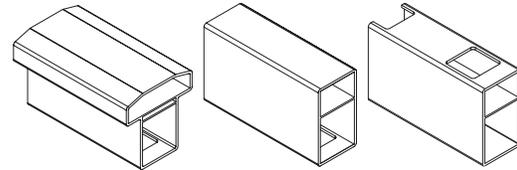
Reliant & Sentinel Deck Hand Rail Installation Instructions

TOOLS REQUIRED: Tape Measure - Screw Gun
Screw/Drill Bit - Chop Saw/Hack Saw - Square - Level

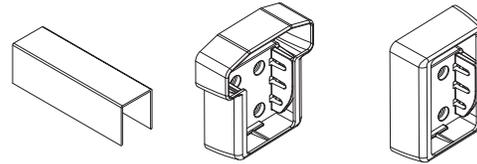
DECK RAIL KIT CONTENTS

Components	6' Kit	8' Kit
Top Rail Reliant: 2" x 3-1/2" Webbed Reinforced Sentinel: 2" x 3-1/2" T-Rail Reinforced	(1)	(1)
Bottom Rail - 2" x 3-1/2" Webbed with pre-routed holes	(1)	(1)
Reinforcing Insert - for Top Rail	(1)	(1)
Rail Brackets Reliant: 4 - 2" x 3-1/2" Sentinel: 2 - 2" x 3-1/2" T-Rail & 2 - 2" x 3-1/2"	(4)	(4)
Balusters - 1-1/2" Square x 36"	(15)	(21)
Foot Block (8' Sections only)	(N/A)	(1)

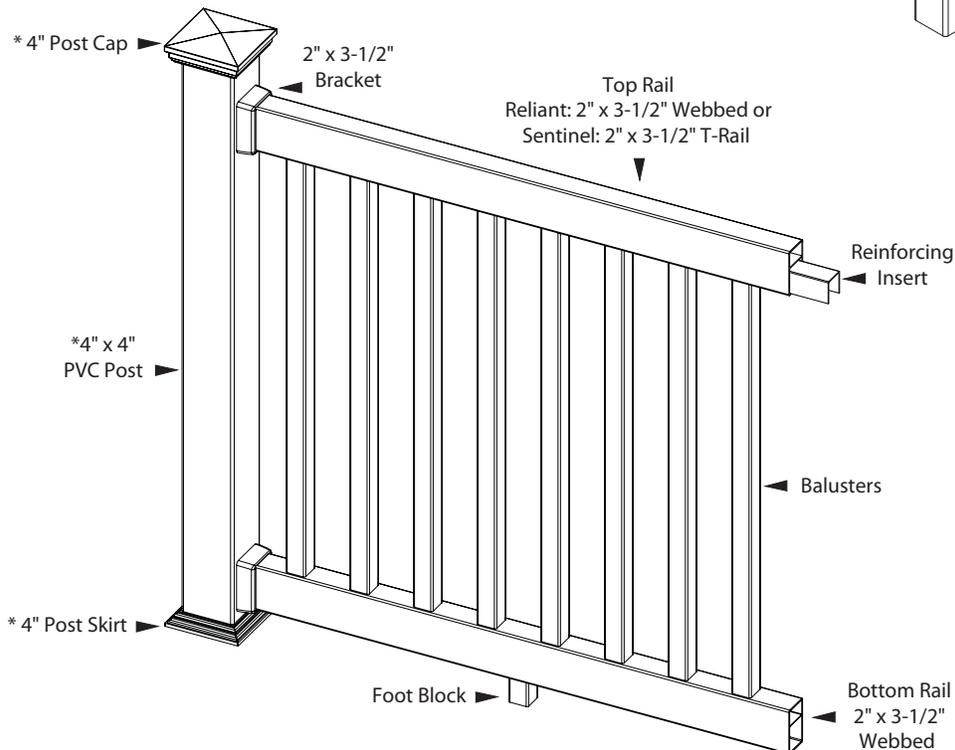
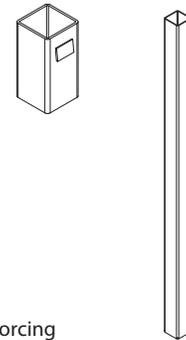
Sentinel 2" x 3-1/2" T-Rail Top Rail
Reliant 2" x 3-1/2" Top Rail
Reliant & Sentinel 2" x 3-1/2" Bottom Rail



Top Rail Reinforcing Insert
2" x 3-1/2" T-Rail Brackets
2" x 3-1/2" Rail Bracket

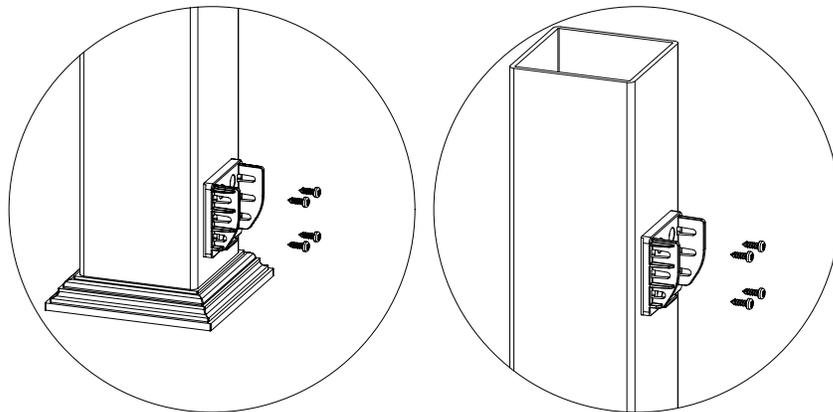
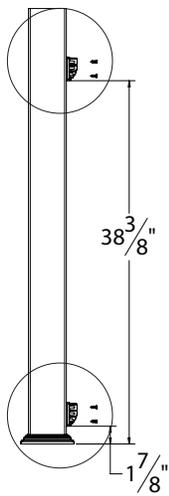


Foot Block
1-1/2" Square Baluster

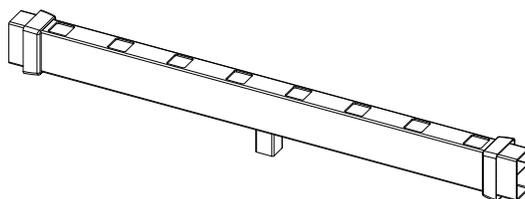


Step 1 - Prepare and install posts and decking. Prepare the posts and mounting surfaces to which the rail section will be attached. A "TRADITIONAL" installation uses a 4" x 4" vinyl post sleeved over a 4" x 4" treated wood post which is fastened to and extends 42" above the deck sub-structure. Alternately, a "POST MOUNT" installation uses a 4" x 4" vinyl post sleeved over two 1-7/8" OD x 4" Post Sockets fastened to a 1-7/8" OD x 36" Galvanized pipe post with a 3-1/2" x 3-1/2" base plate for mounting directly on the wood, vinyl or concrete deck surface. Install decking boards around post supports. Refer to the decking installation instruction manual for the correct installation procedures of the deck boards. If vinyl post skirts are being used at the base of the posts, slide the post skirts into position so that they come to rest around the base of the 4" x 4" sleeved post.

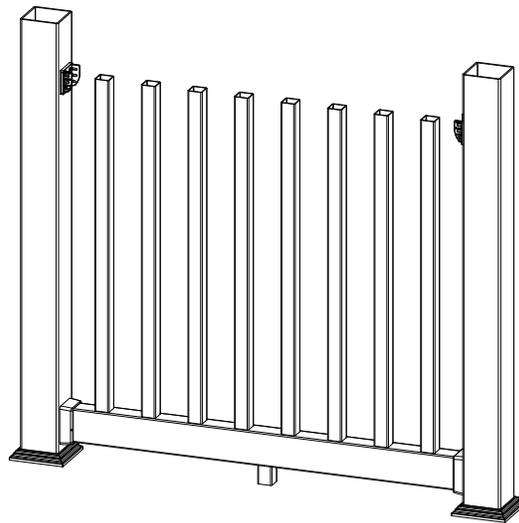
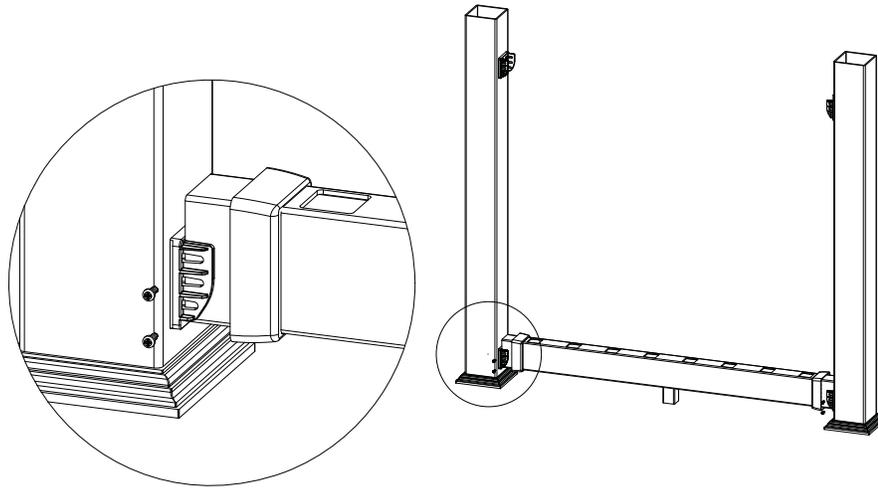
Step 2 - Secure post mounting brackets. Attach the nylon post brackets to the sleeved vinyl posts by using the (4) #10 x 2" deck screws for the Traditional installation and the (4) #10 x 1" pan-head screws for the Post Mount installation. Measure and secure the bottom nylon post bracket 1-7/8" from the installed deck surface. Similarly secure the top nylon post brackets to the installed posts 38-3/8" from the deck.



Step 3 - Measure and cut the bottom rail. The 2" x 3-1/2" bottom rail has a series of routed holes on the top side and for 8' sections only, one routed foot block hole in the middle of the bottom side. Measure the distance between the base plates of opposing nylon post brackets. If cutting of the bottom rail is necessary, cut an equal amount off both ends of the rail so to maintain uniform baluster spacing between the posts. For 8' wide sections insert the foot block into the bottom of the rail so the notched end of the picket is inside the rail. Loosely position the 2" x 3-1/2" bracket covers on opposing ends of the bottom rail.

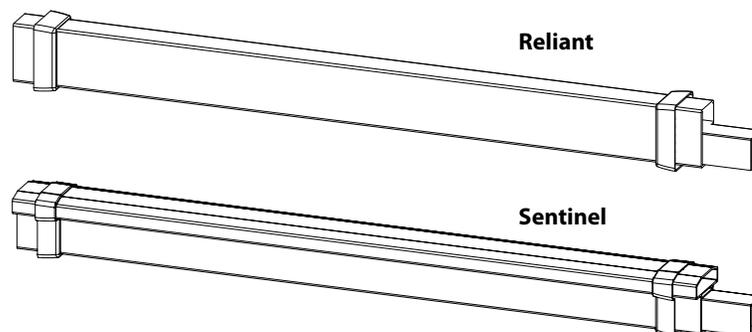


Step 4 - Secure the bottom rail. Attach the bottom rail to the nylon post brackets by using the (4) #10 x 1" pan-head screws. The bottom rail will be 2" off the deck surface with the foot block resting on the deck surface and the rail inserted correctly into the nylon post brackets. Fasten two screws into each side of the nylon post bracket using the top and bottom slots of the nylon post brackets. Once secured, snap the 2" x 3-1/2" straight bracket covers positioned in Step 3 onto the nylon post brackets.

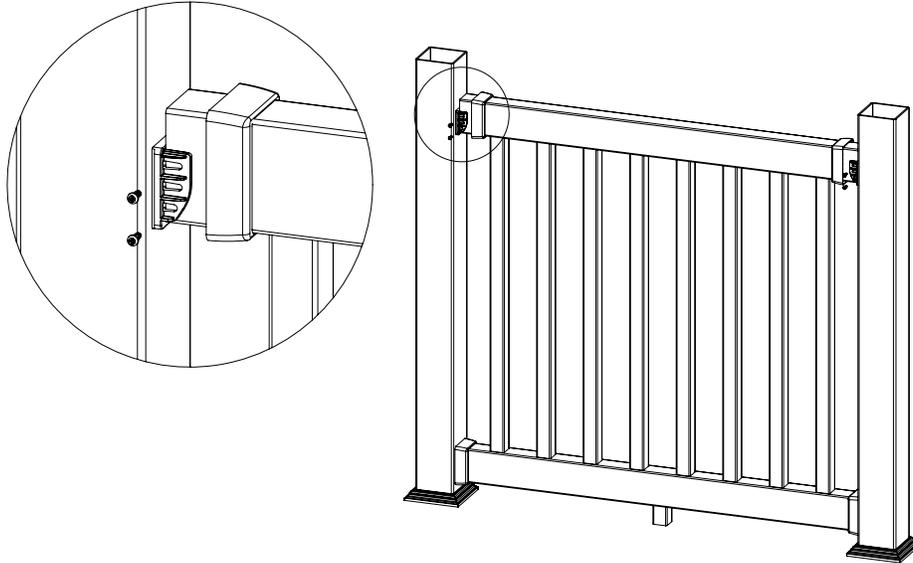


Step 5 - Insert the balusters. Having secured the bottom rail into place, insert the balusters into the bottom rail.

Step 6 - Measure and cut the top rail. Both the Reliant and Sentinel top rail have a series of prerouted holes on one side and an internal reinforcing insert. If cutting of the top rail is necessary cut an equal amount off both ends of the rail to maintain a uniform baluster spacing between the posts. The rail kits are provided with an reinforcing insert and must be used. Cut the insert to the appropriate length of the measured top rail. Slide the insert into the top rail and loosely position the 2" x 3-1/2" bracket covers on opposing ends of the top rail.



Step 7 - Secure the top rail. Position the top rail over the exposed ends of the balusters so that it is positioned on the resting flange of the installed nylon post brackets. Attach the top rail to the nylon post brackets by using the (4) #10 x 1" pan-head screws. Fasten two screws into each side of the nylon post bracket using the top and bottom slots of the nylon post brackets. Snap the 2" x 3-1/2" bracket covers positioned in Step 6 onto the nylon post brackets.



Step 8 - Finish the section. Secure the 4" x 4" post caps onto the post tops by applying PVC adhesive to the internal surfaces of the post caps. Set the caps onto the post tops. Wipe off any excess adhesive.

