

# PRESIDIO®

by **Westech**


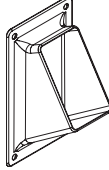
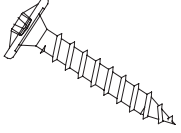
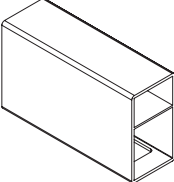
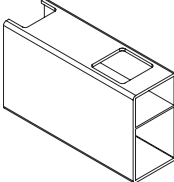
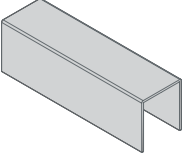

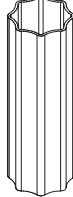
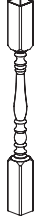
## RELIANT® SERIES STAIR RAILING INSTALLATION INSTRUCTIONS

# PRESIDIO®

## RELIANT® SERIES

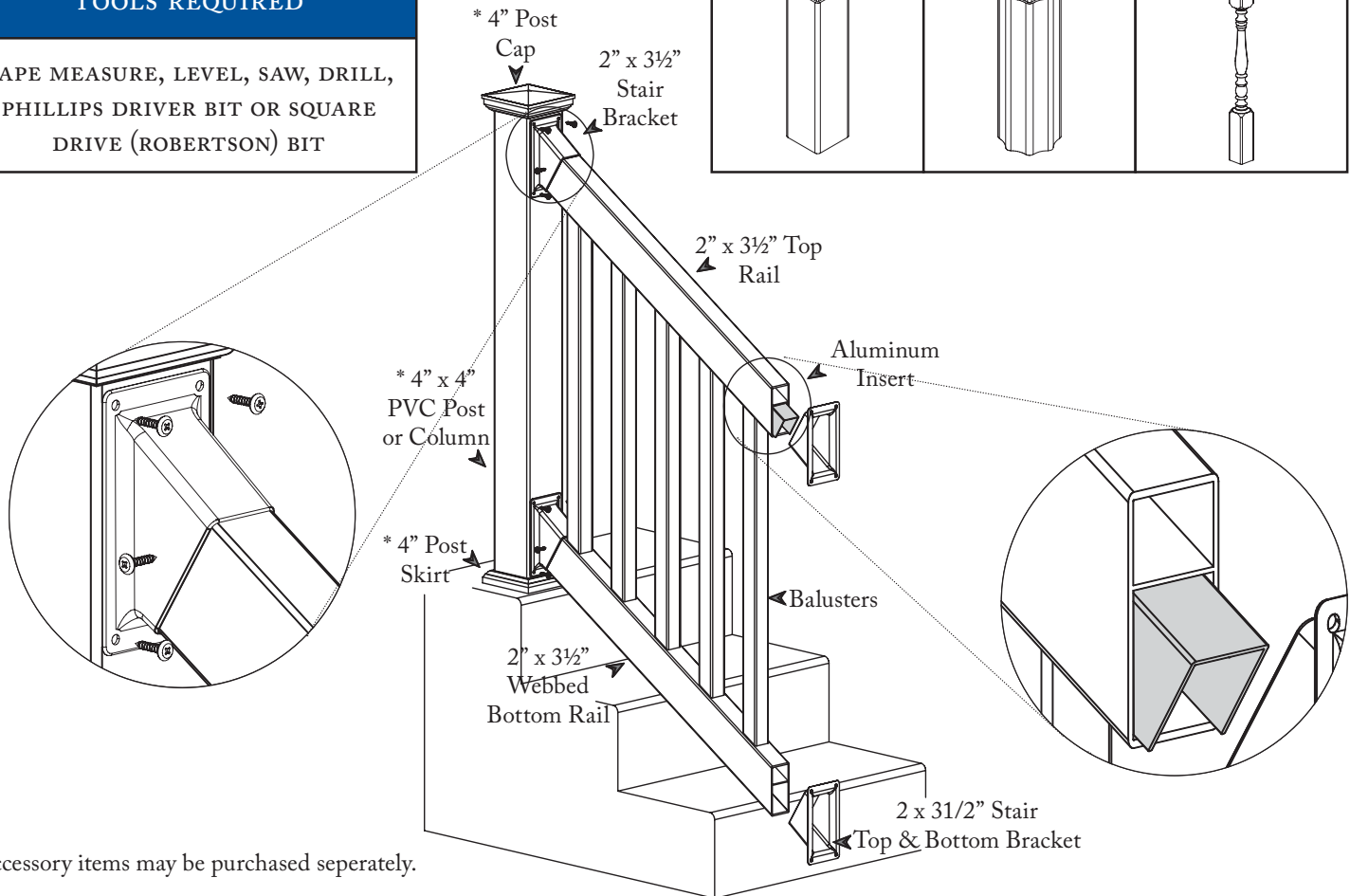
### STAIR RAILING KIT INSTRUCTIONS

| RAILING KITS INCLUDE THE FOLLOWING COMPONENTS   | 6' Kit | 8' Kit |
|---|--------|--------|
| <b>2" x 3½" Stair Brackets</b> for Top & Bottom rails   | (4)    | (4)    |
| <b>1¼" Stainless Steel Screws</b> for Brackets  | (20)   | (20)   |
| <b>Top Rail</b> - 2" x 3½" Webbed with pre-routed holes (Top Rail routed on one side of rail)         | (1)    | (1)    |
| <b>Bottom Rail</b> - 2" x 3½" Webbed with pre-routed holes (Bottom Rail routed on both sides of rail) | (1)    | (1)    |
| <b>Aluminum Insert</b> for Top Rail   | n/a    | (1)    |
| <b>Baluster Styles</b> (One style per selected kit)<br>1½" Square, 1½" Fluted, 1½" Colonial           | (11)   | (15)   |

|   |  |  |
|---|--|--|
| 2" x 3½" Stair Bracket  | 2" x 3½" Stair Bracket   | 1¼" Stainless Steel Screw  |
|   |   |   |
| 2" x 3½" Top Rail   | 2" x 3½" Bottom Rail   | 2" x 3½" Top Rail Aluminum Insert  |
|   |   |   |
| 1½" Square Baluster   | 1½" Fluted Baluster  | 1½" Colonial Baluster  |
|  |  |  |

**TOOLS REQUIRED**

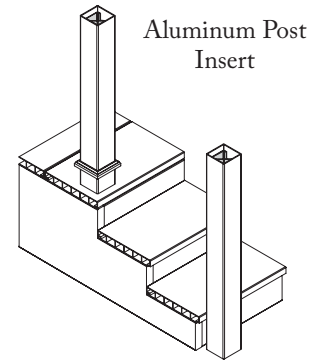
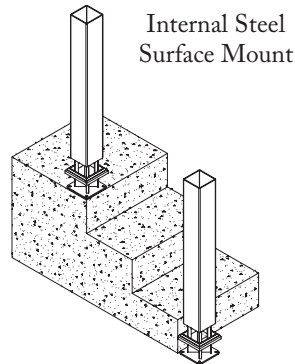
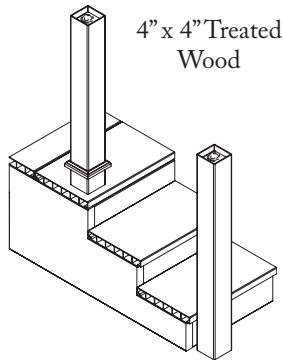
TAPE MEASURE, LEVEL, SAW, DRILL, PHILLIPS DRIVER BIT OR SQUARE DRIVE (ROBERTSON) BIT



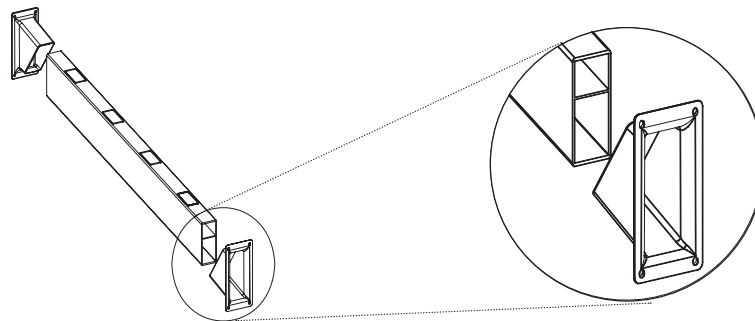
\* Accessory items may be purchased separately.

# Reliant® Series Stair Railing Assembly Instructions

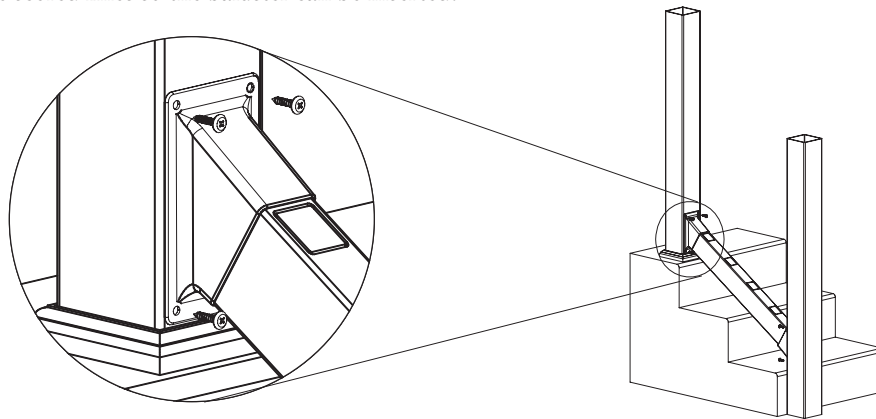
NOTE: PRESIDIO® Step Kits are designed for a standard 7/11 rise/run or a 32½° angle. The following instructions and illustrations are designed with the upper post support fastened at the edge of the porch or deck surface and the lower post support fastened at the foot of the steps.



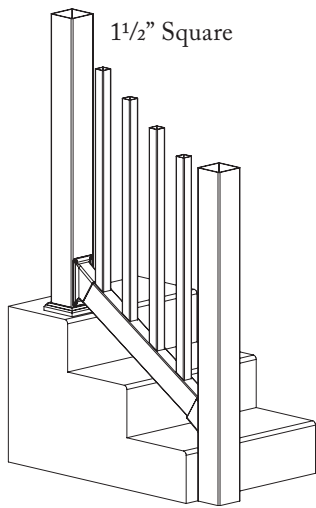
**STEP 1** - Prepare and install posts and decking. Prepare the posts and mounting surfaces to which the step rail section will be attached. A typical installation uses a 4" x 4" vinyl post sleeved over either a 4" x 4" treated wood post, an internal stainless steel surface mount or an aluminum post insert. (The height of the post support will vary depending on the mounting location of the post support.) Cut and fasten the 4" x 4" treated wood posts or the aluminum post inserts to the wood framing or install the internal stainless steel surface mounts to the concrete surface. Install decking boards over or around the post supports. (Please refer to the decking installation instruction manual for the correct installation procedures of the deck boards.) Sleeve the post supports with a 4" vinyl post. (This sleeve should be 1" higher than the post support when using either 4" x 4" treated wood or aluminum post inserts.) The installed post supports must be plumb for correct installation of the step rail section. If vinyl post skirts are being used at the base of the posts, slide the post skirts over the top of the vinyl-sleeved posts so that they come to rest around the base of the post.



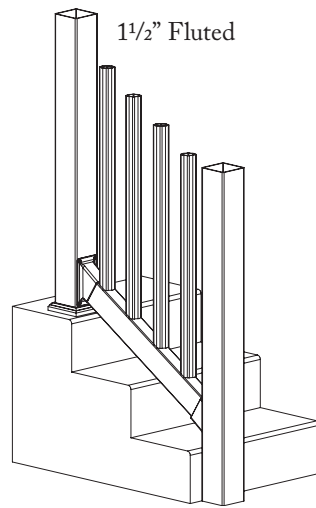
**STEP 2** - Measure and cut the bottom rail. Measure the distance between the posts keeping the tape measure approximately 2" above the end of the step treads while maintaining a 32½° angle. If cutting of the bottom rail is necessary, cut an equal amount off both ends of the rail to maintain uniform baluster spacing between the posts. Slide the 2" x 3½" Stair brackets onto each end of the bottom rail. (The flange of the brackets should be to the outside of the rail.) If a partial baluster route is exposed, cut away the inside portion of the bracket along the scored lines so the baluster can be inserted.



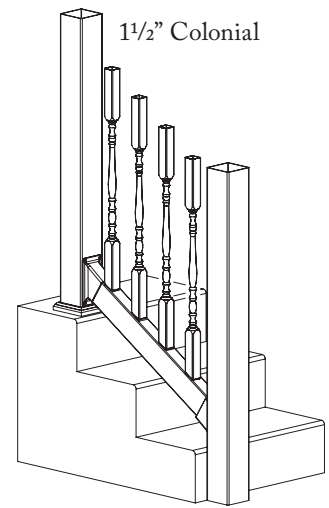
**STEP 3** - Secure the bottom rail. Attach the bottom rail to the posts by using the 1¼" stainless steel screws provided. Fasten one screw in one bracket to set the bracket into position. Keeping the bottom rail parallel to the ends of the step treads, fasten one screw in the second bracket. Finish securing the brackets to the post using (4) screws per bracket ensuring the brackets are level and square.



1 1/2" Square



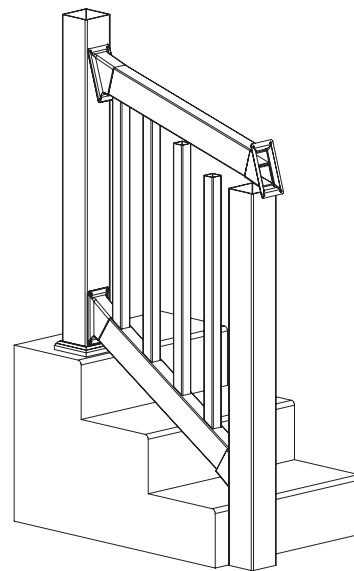
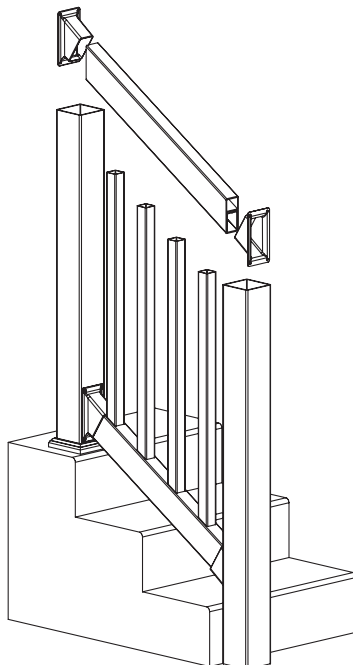
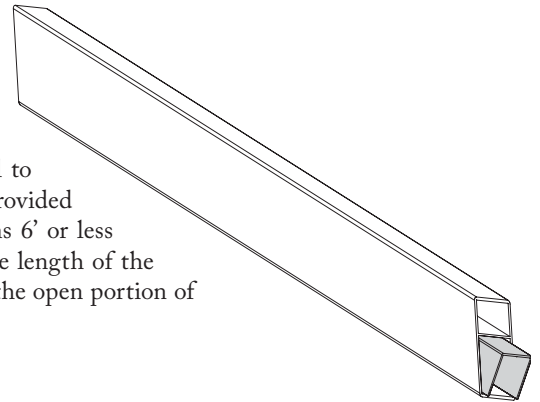
1 1/2" Fluted



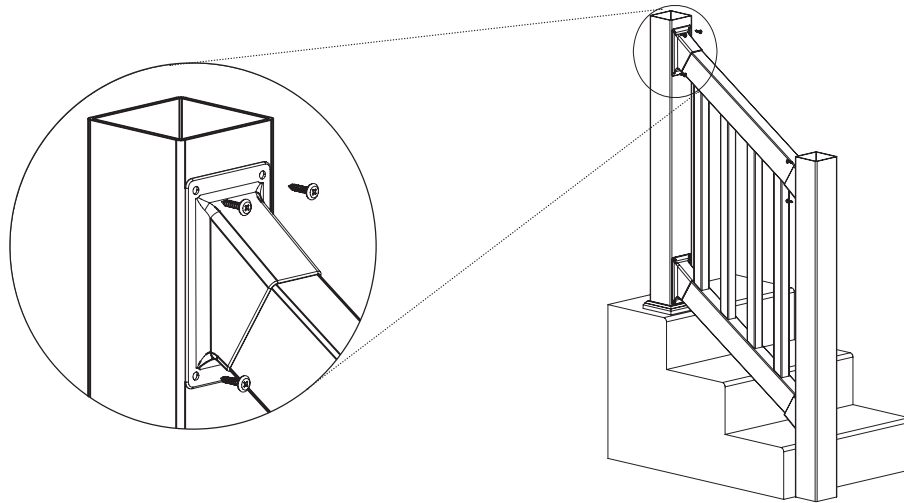
1 1/2" Colonial

**STEP 4** - Insert the balusters. Having secured the bottom rail into place, insert the balusters into the bottom rail. If the 1 1/2" Colonial balusters are being used make sure the balusters are inserted so the baluster tapers are uniformly installed.

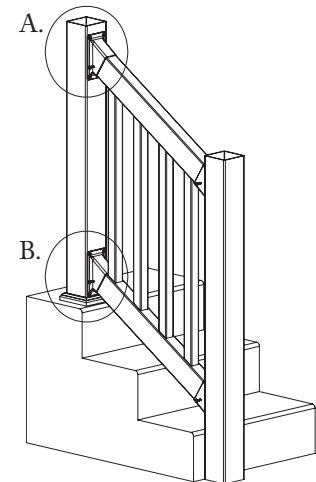
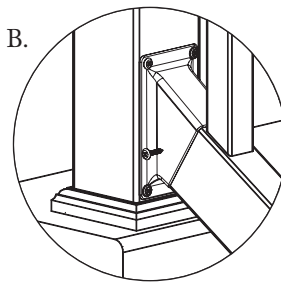
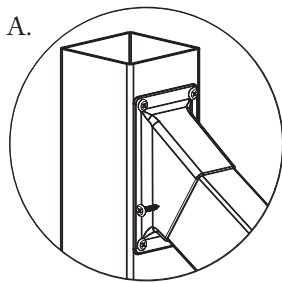
**STEP 5** - Measure and cut the top rail. Measure the distance between the posts at its respective height, (36" or a 42") while maintaining a 32 1/2° angle. If cutting of the rail is necessary, cut an equal amount off both ends of the rail to maintain uniform baluster spacing between the posts. The 8' step rail kits are provided with an aluminum insert and must be used on any section over 6'. (Rail sections 6' or less do not require the aluminum insert.) Cut the aluminum insert to the appropriate length of the measured top rail. Insert the aluminum in the lower portion of the top rail with the open portion of the aluminum insert facing downward.



**STEP 6** - Insert the balusters into the top rail. Slide the 2" x 3 1/2" step brackets on the ends of the top step rail. (The flange of the brackets should be to the outside of the rail.) If the brackets for the bottom rail were cut away for the outside balusters, in Step 2, it may be similarly necessary to cut away the inside portion of the 2" x 3 1/2" step brackets along scored lines. Starting at the upper end of the step rail section, insert the first baluster into the corresponding rout of top rail keeping the opposite end of the rail slightly raised. Press firmly on the top of the rail for baluster insertion. Continue inserting the balusters until all the balusters are inserted into the top rail.

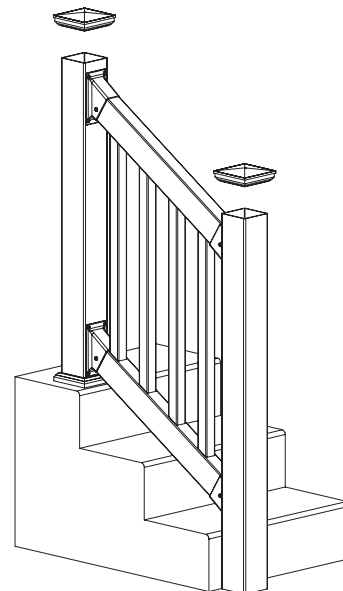


**STEP 7** - Secure the top rail. Attach the top rail to the posts by using the 1/4" stainless steel screws provided. Fasten one screw in one bracket to set the bracket into position. Keeping the top rail parallel with the bottom rail, fasten one screw in the second bracket. Finish securing the brackets to the posts using (4) stainless steel screws per bracket ensuring the brackets are level and square.



**STEP 8** - Securing the section. Having secured all the brackets to the posts it is time to plumb the balusters and secure the section into place. Plumb the balusters with the posts by shifting the top and/or bottom rail between the posts. Using the (4) remaining screws, secure the brackets to the top and bottom rails using one screw per bracket. (See illustrations).

**STEP 9** - 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 posts tops. Wipe off any excess adhesive.



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