

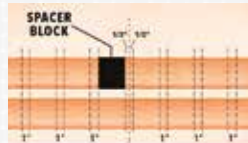
ARTISAN LEVEL RAIL INSTALLATION



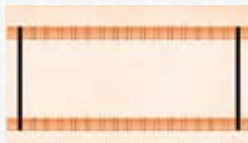
1. Plumb posts or mounting surfaces. Measure the inside distance of these surfaces.



2. Using the measurement from the first step, subtract $\frac{1}{2}$ " from the total measurement for railing connector. (Railing connectors are $\frac{1}{4}$ " thick).



3. Find the center of the top and bottom rails. From the center line, mark and measure $\frac{1}{2}$ " on each side of center mark (creating a 1" space). Next cut a 3 $\frac{1}{2}$ " spacer block and hold it against the outside edge of center 1" space. Repeat this process on the other side of center and continue across the rail. Please note that 3 $\frac{1}{2}$ " is just a starting point and you may need to adjust the spacing depending on the rail length. Do not exceed a 4" space between balusters.



4. Lay the rails on a flat surface and install the two outer Artisan balusters (use included screws - 4 per baluster). This will ensure spacing between rails.



5. Finish mounting the balusters. Slide the Precision railing connectors on the rail ends ensuring the rail is fully seated in the connector. Next install two #8X2" screws through the connectors and into the rail ends.



6. Rest the rail section on two temporary space blocks with the proper height between the deck and the bottom of the bottom rail (recommended height is 3-1/2" - check local building codes) Center the railing connectors on the post and then install four #8X2" screws through each railing connector then screw into the posts.

ROUND & SQUARE LEVEL RAIL INSTALLATION



1. Plumb posts/mounting surfaces. Measure the inside distance of all posts/mounting surfaces.



2. Using the measurement from Step 1, deduct $\frac{1}{2}$ " from the total measurement for Precision railing connectors. Then cut both the top and bottom rails. (Precision railing connectors are $\frac{1}{4}$ " thick).



3. Lay the top and bottom rails next to each other and flush the ends. Find the center of the rails and lightly mark them. Measure out 4 $\frac{1}{2}$ " from each side of the center line and lightly mark them. The end spacing will likely vary. Set a combination square for center and lightly mark. Where the lines intersect will be the center of the Precision baluster connector.



4. Insert a screw through the baluster connector and install where the lines intersect. Mark the center for placement before installing baluster connector.



5. Install two #8x2" screws through the Precision railing connector and into the rail ends of the upper and lower rails. Rest the bottom rail on two temporary spacer blocks with the proper height between the deck and the bottom of the bottom rail (recommended space is 3-1/2" - check local codes). Center the railing connectors on the post and then install with four #8X2" screws then mount connector to posts. Next install balusters on to the bottom rail.



6. Start the top rail at an angle and insert the connectors into the balusters. Make sure your balusters are fully connected. Next install four #8X2" screws for each connector through the railing connectors into the posts. Please note that for spans more than 6" a foot block may be needed (recommended space between bottom rail and deck is 3-1/2" - check local codes).

ROUND & SQUARE RAIL INSTALLATION



1. Lay bottom rail next to posts and mark them for angle. If the posts are plumb then the top rail should be the identical angle and length. Next cut the top and bottom stair rails at the correct angle.



2. Using the measurement from Step 1- deduct $\frac{1}{2}$ " from the total measurement for railing connectors. (Precision railing connectors are used for both level and stair applications) Then cut both the top and bottom rails to size.



3. Lay bottom and top rails next to each other with the top rail flipped upside down. Position the rails as seen in image. Find the center of rails and lightly mark them. Measure out 5-1/2" from each side of the center line and lightly mark. The end spacing may vary. Set a combination square for center and lightly mark. Where the lines intersect will be the center of the Precision baluster connector.



4. Insert a screw through the Precision baluster connector and install where the lines intersect (start vertically and then tilt screw to correct angle). The bottom and top baluster connectors will be facing in opposite directions.



5. Install two #8x2" screws through the Precision railing connector into the rail ends of the upper and lower rails. Connect railing connectors to both sides. Center the railing connectors on the post and then install four #8X2" screws for each connector through the railing connector into the posts. Next install balusters on the bottom rail.

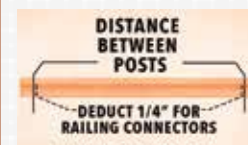


6. Start the Top Rail at an angle and then insert the connectors into the balusters until all of the balusters are in place. Ensure the balusters are fully connected. Connect top rail to post with four #8x2" screws through the railing connector and into the post on both sides.

RAILING CONNECTOR INSTALLATION



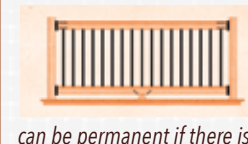
1. Plumb posts or mounting surfaces. Measure the inside distance of these surfaces.



2. Using the measurement from the first step, subtract $\frac{1}{2}$ " from the total measurement for railing connector. (Railing connectors are $\frac{1}{4}$ " thick).



3. Slide the railing connectors on the rail ends and make sure rail is fully seated in the connector. Then install two #8X2" screws for each connector through the railing connectors and into the rail ends.



4. Cut two Spacer Blocks that are to be situated between the deck and the bottom rail. (Recommended height is 3-1/2" these can be temporary or they can be permanent if there is sag in your rail). Place bottom rail section in between the posts. Install four #8X2" screws for each connector through the railing connectors and into the posts.



5. Place the top rail into position and install four #8X2" screws for each connector through railing connectors and into posts.

**Following these installation instructions will result in a 36" rail height

**Prior to construction, check with your local regulatory agency in your area. Common railing height is "36. Structural support should come from either the continuation of deck support posts that extend up through the deck floor or railing posts that are bolted to the inside of the rim or outer joist.