

## Rail Section Installation Guide (Toggle Bolt Spring)

For rail installation with Newel Posts #1391, 1392, 1395, 1501 and 1503, and Columns #1100, 1101, 1289, 1290, 1291, 1292, 1293, 1294, 1295, 1296, 1297, 1298, 1299, 1500 and 1502.



1. After installing all columns, posts and newel posts, carefully measure the length of the rail (top and bottom) between the posts.



2. Transfer this measurement to the rail and draw a line to both ends of the top and bottom rails in order for the balusters to be centered.



3. (bottom rail)



4. Cut the top and bottom rail, using the lines drawn previously as a guide, with a miter saw with finishing blade. Apply a cardboard under the rail to protect its finishing paint from scratching.



5. Position 2 support blocks next to each posts and position the rail on top, between both posts or wall and post.



6. Make sure the rail is cut to the right length and fits properly between each posts, or wall and post.



7. Make sure the rail is leveled and plumb.



8. Draw a line on each posts (or wall and post) to both ends of the underside of the top and bottom rail where the brackets will be installed.

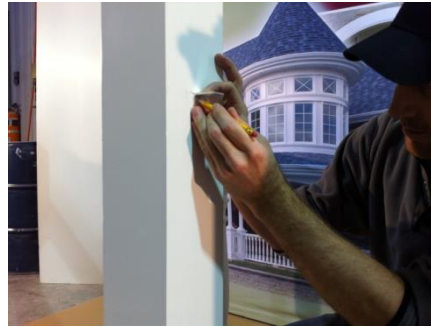


9. Using a square, make sure the lines drawn in step 8 are plumb.

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10. For each line drawn in step 8, measure the center of each post and draw a line to help center the brackets.



11. Position the bracket below the lines drawn in step 8 and draw the hole of the bracket on each posts, or wall and post. Make sure the bracket is center on the post.



12. Use a 5/8" drill bit and power drill hole drawn in step 11.



13. With toggle bolt spring, fasten top angle brackets and bottom angle brackets to each posts, or post and wall. Make sure the brackets are centered and flush.



14. **Cutting the plugs to length:** For each rail, 4 plugs are supplied to hide the bracket. Measure both ends of the underside of top and bottom rail where plugs will be installed.



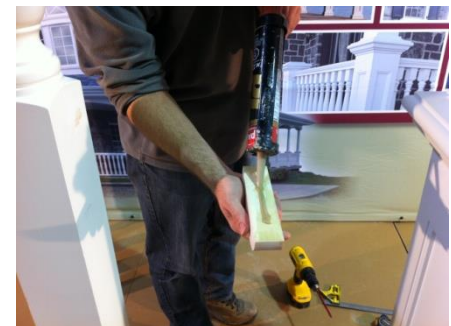
15. Transfer these measurements to each plug and draw a line 1/8" shorter.



16. Cut the plugs, using the lines drawn previously as a guide, with a miter saw with finishing blade.



17. **Rail support block installation:** measure and draw a line in the center between each posts where the support block will be installed.



18. Apply a urethane-based construction adhesive (PL Premium) under the support block.

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19. Fasten the support block with a screw. Make sure it is centered between each posts, or wall and post.



20. Apply a ½" bead of a urethane based construction adhesive to the underside of each end of the top and bottom rail, where the angle brackets will meet.



21. Apply a line of silicone caulking to the underside of each end of the top and bottom rail, where the plugs will be installed.



22. Clean off any excess glue and silicone caulking.



23. Position the rail in place



24. Fasten both ends of the top rail brackets with the supplied screws.



25. Install plugs to each end of the top and bottom rail.



26. Repeat steps 1 to 25 for each rail.

If you have questions regarding these installation instructions, please contact your Plastika sales representative or our customer service at 1-888-846-4419.