

### FIRST STEP TO DETERMINE WHICH INSTALLATION METHOD

1

MODEL

NEWEL #1  
NEWEL #2  
NEWEL #3  
NEWEL #4

EACH RISER

TOTAL RISE

7"

7"

7"

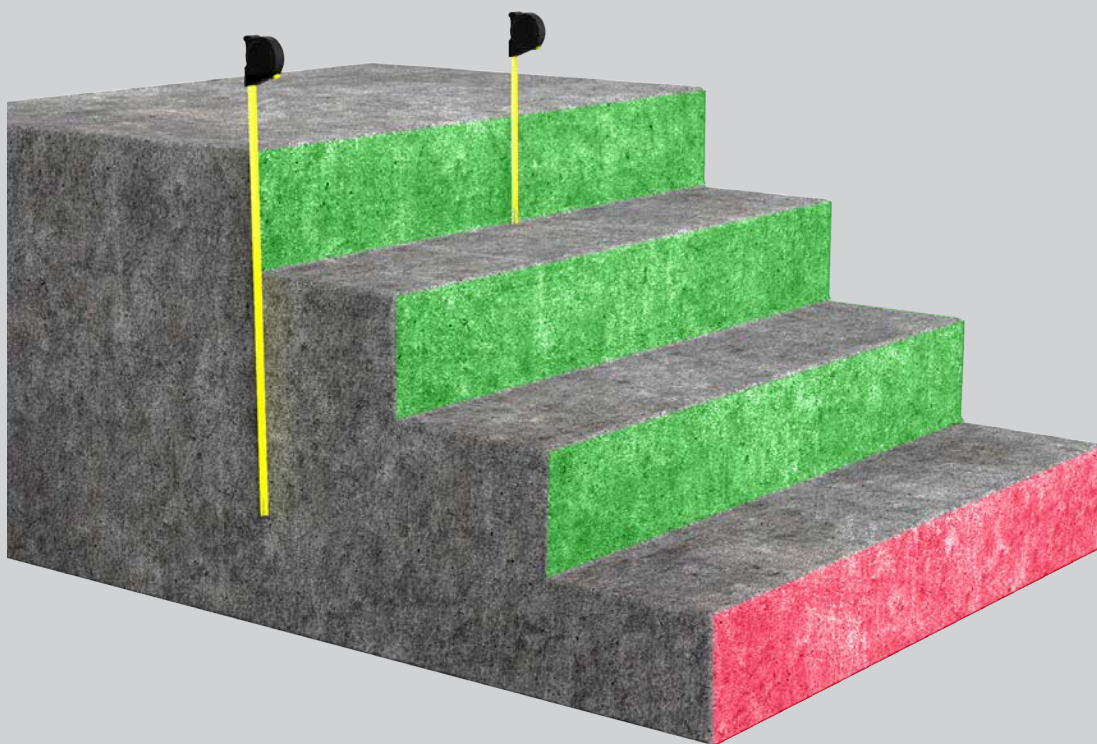
14"

7"

21"

7"

28"

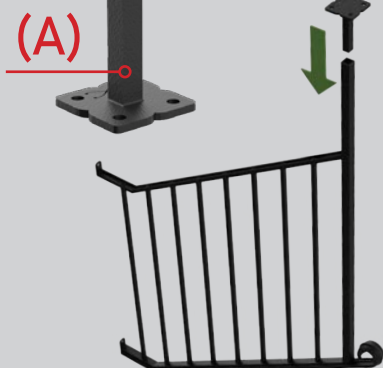


BEFORE ATTEMPTING ANY INSTALLATION



Measure the height of only the risers your rail will span. For instance, in the illustration above, only 3 risers are measured for installation of a Newel #3 rail, while the fourth riser is disregarded. Using the chart above, if your measurements are **MORE THAN** the number listed for your respective rail, use the **BLUE** set of instructions. If your measurements are **LESS THAN** the number listed, use the **ORANGE** instructions.

2



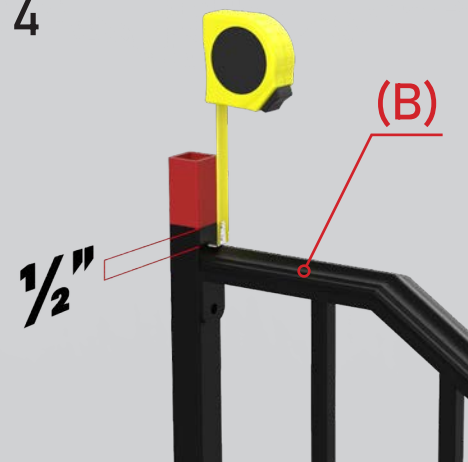
Insert the Post Mount Bracket (A) into the bottom of the lower post **WITHOUT SNUG STRIPS**. This will be temporary to get correct measurements. The snug strips will be used in a later step.

3



With the Post Mount Bracket inserted, dry fit the rail and top post on the steps. Place the posts at least 2" from each side of the steps. **DO NOT ATTACH THE TOP POST AND RAIL YET**. Use a level to ensure the posts are plumb in all directions.

4



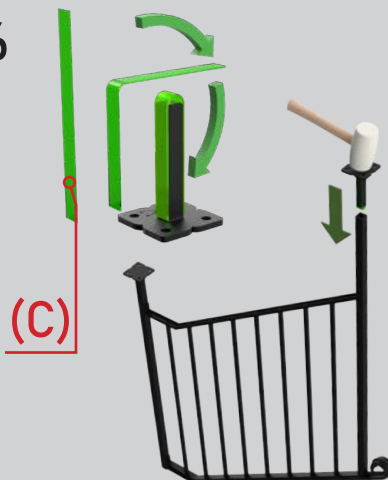
It may be necessary to cut the back post before connecting the rail. Mark the post  $\frac{1}{2}$ " up from the top of the handrail cap (B). Make a cut at this mark. The excess material can be cut any time prior to inserting the newel cap.

5



Once the rail is sitting plumb in all directions, use the supplied  $\frac{3}{8}$ " driver bit and your screw gun, with firm pressure, to screw the self-drilling screws through the handrail mounting clips into the newel post. The screws are self-drilling and will cut into the newel post.

6



Remove the dry fitted Post Mount Bracket, and locate the green snug strips (C) included in the kit. Wrap the snug strips to engage the sides of the post. Ensure the snug strips are positioned side to side - **NOT FRONT TO BACK**. Using a mallet, tap the Post Mount Bracket and snug strip into the lower post.

7



Place the handrail assembly on the steps in its final location. Verify plumb in all directions. It is advisable to step back and look at the handrail placement to ensure it is setting in an appropriate location. For masonry step applications, it is advisable to place the handrail a minimum of 2" from all edges.



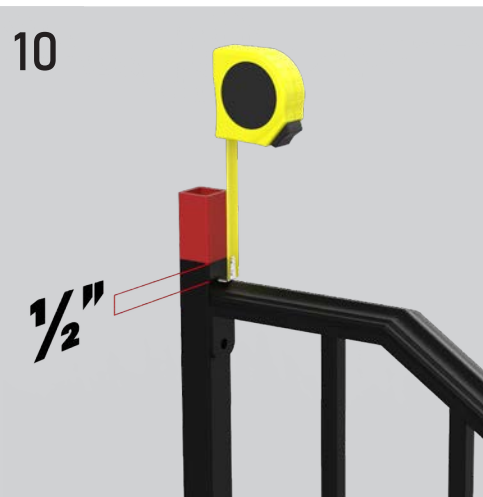
**IF COMBINING WITH A LEVEL RAIL  
PROCEED TO LEVEL INSTRUCTIONS**



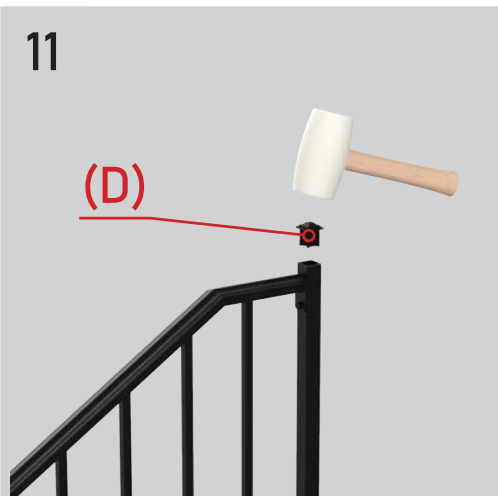
Make sure the posts are sitting a minimum of 2" from each side of the steps. Using a drill fitted with the included drill bit, drill through one of the holes on the post mount. Ensure you are drilling deep enough to accommodate the length of your fastener. For concrete, drill 3" deep, and for brick drill 6" deep.



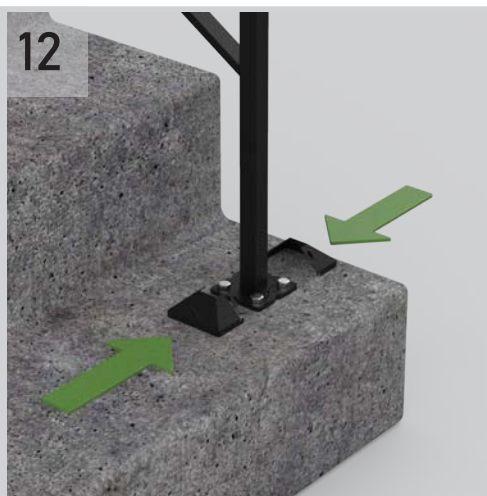
Select fasteners, appropriate for your stair material. Secure the fastener into the hole that you have just drilled. Be sure to drill one hole and secure one fastener at a time. If the post is no longer level after fastening, place the included washers under the post mounts until a level reads plumb.



If you have not already cut the back post in step 4, do so now, making sure to leave at least 1/2" above the rail. Use the included touch-up paint to cover any bare metal that is exposed.

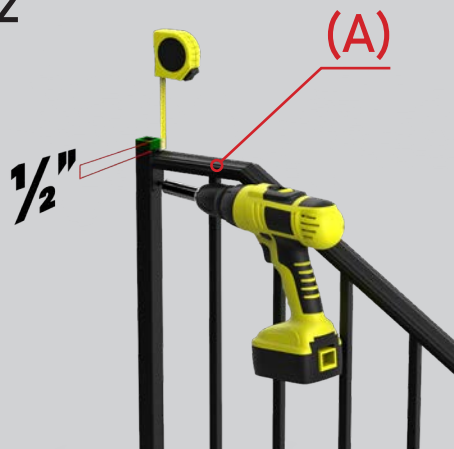


Install the newel post cap (D) into the upper post top by gently tapping it in with a rubber mallet.



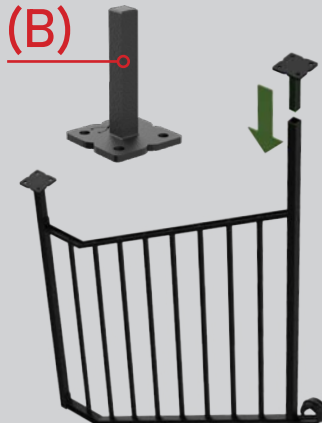
Install the stainless steel escutcheons over the post mount bracket plates. For video instructions visit [www.diyhandrail.com](http://www.diyhandrail.com).

2



Place a mark on the newel post  $\frac{1}{2}$ " down from the top of the post. Center the handrail mounting clips to the newel post and align the top of the handrail cap (A) to the  $\frac{1}{2}$ " mark. Using the supplied  $\frac{3}{8}$ " driver bit and your screw gun, with firm pressure, screw the self drilling screws through the handrail mounting clip into the newel post. The screws are self drilling and will cut into the newel post.

3



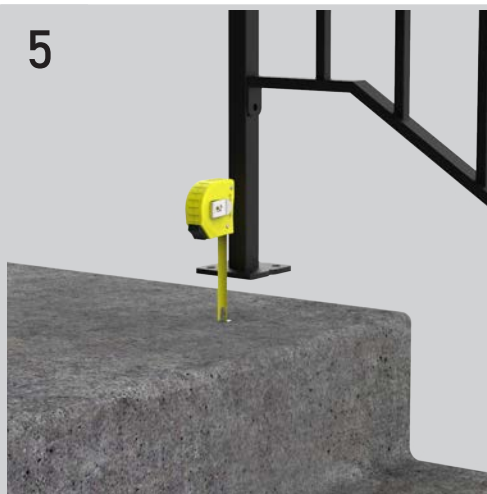
Take the Post Mount Bracket (B) that is included in the kit, and insert into the bottom post WITHOUT SNUG STRIPS. This will be temporary to get correct measurements. The snug strips will be used in a later step.

4



Take the rail assembly, and place it where it is to be mounted on the steps. Each post should be a minimum of 2" from each side of the step. Use a level to ensure plumb in all directions. This will cause a gap underneath the top post, which will be corrected.

5



With the handrail setting plumb, measure the distance from the top step to the bottom of the upper post mount plate. This measurement is how much material you will need to remove from the bottom post.

6



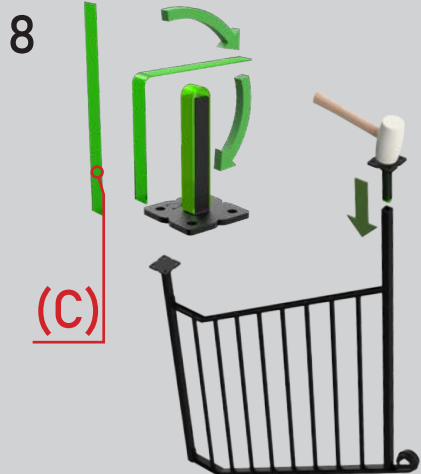
Remove the Post Mount Bracket from the bottom post, and measure from the bottom of the post. Take the measurement from step 5 and mark onto the bottom post. Make a cut at this mark. Touch up any exposed steel using the included touch up paint.

7



Replace the lower post mount bracket into the bottom of the post and verify your handrail sets plumb in all directions.





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Place the handrail assembly on the steps in its final location. Verify plumb in all directions. It is advisable to step back and look at the handrail placement to ensure it is setting in an appropriate location. For masonry step applications, it is advisable to place the handrail a minimum of 2" from all edges.



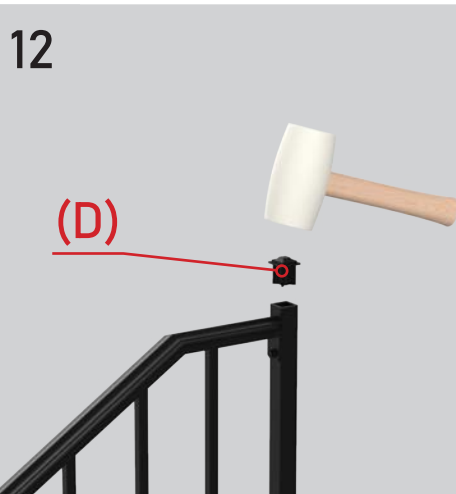
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Select fasteners for your application, making sure that they are appropriate for the material you are drilling into, and secure the fastener into the hole that you have just drilled. Be sure to drill one hole and secure one fastener at a time. If the post is no longer level after fastening, place the included washers under the post mounts until a level reads plumb.



Install the newel post cap (D) into the upper post top by gently tapping it in with a rubber mallet.



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