A Product of DeckRite LLC 3912 East Progress North Little Rock, AR 72114 Phone: (501) 945-1919 Fax: (501) 604-0235



## Deck Rail Stair Railing Installation Guide

#### Disclaimer:

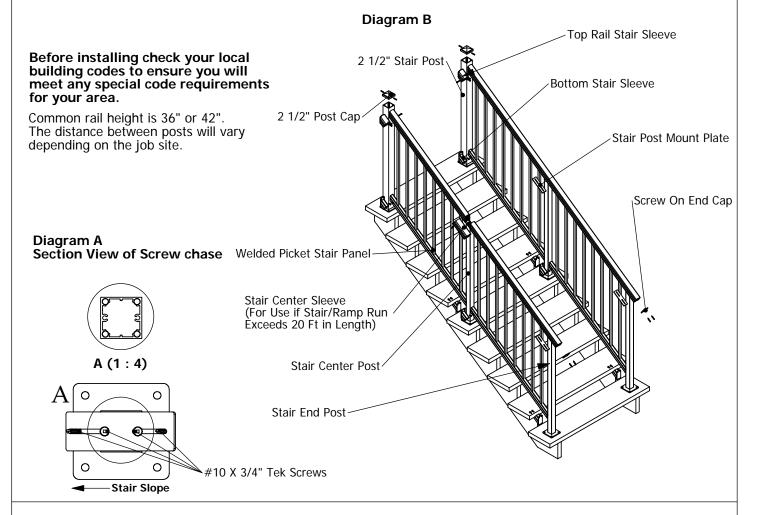
This guide is not intended to replace a trained professional installer. The drawings and instructions contained within are for demonstration purposes only. All uses of this product are to conform with local building codes. Proper safety precautions and safe work practices should be followed at all times while installing this product. Deck Rail does not accept any liability for any damages, except as noted in the warranty.

#### **Tools Needed To Install**

- Miter saw and carbide-tipped blade
- Power drill
- Tape measure
- Level
- Saftey goggles and hearing protection
- Extension cords
- Drill bits
- #2 and #3 square driver bits
- Pencil
- Angle finder

#### **Important Notes**

- Welded picket stair panels are available in sizes ranging from 20 ft and under, at angles ranging from 1 degree to 45 degrees.
- 1.72" X 40 1/8" posts are used for stair applications to allow for the extra height required under the panel and for the angled cut made at the top of the post.
- It is important, when cutting the top of the stair posts, to ensure that the screw chase is properly aligned. See Diagram A
  Fasteners must be appropriate for the application of this system.
- Drain holes in the post should face in the same direction as the railing.
- Any Post that has an outside sleeve on top will have to be trimmed in order to maintain a consistent rail height.



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#### Step 1

#### Lining up welded stair picket panel

Position the top 2 1/2" stair post and the bottom 1.72" end post. Line up the welded stair picket section beside the posts, you want to line up the starting and ending picket gaps so that they are Equal. You want enough of a gap to allow for sleeves to fit onto the railing, but you dont want the gap to exceed four inches.

Next position the railing vertially, so that the top rail is between 34" and 38" from the nose of the stair. You want to ensure that the bottom rail is close enough to the nose of the stair that a 6" ball cannot pass through the railing as demonstrated in Diagram C.

# 2 1/2" Top Stair Post 1.72" End Post 38" 34" Ø6" Sphere Shall Not Pass Through

Diagram C

#### Step 2

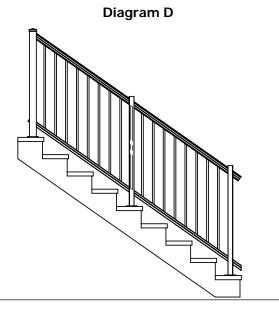
#### **Determining Stair Center Post Locations.**

While the picket panel is in place, figure out where you want to put your stair center posts. Center posts should replace an exsisting picket and be spaced no further than six feet on center. You will also want to ensure that the baseplate of the center post is far enough back from the nose of the stair to ensure there is no damage to the stair when installing fasteners. This is especially true when fastening into concrete.

Remember to ensure that the screw chase is correctly alligned when you are setting up your center posts. If it is not, you will not be able to install the post mount plates.

Once you are happy with the positioning, mark the top and bottom rails of the welded picket panel, allowing a minimum of 3/8" where top and bottom sleeves are going to be installed.

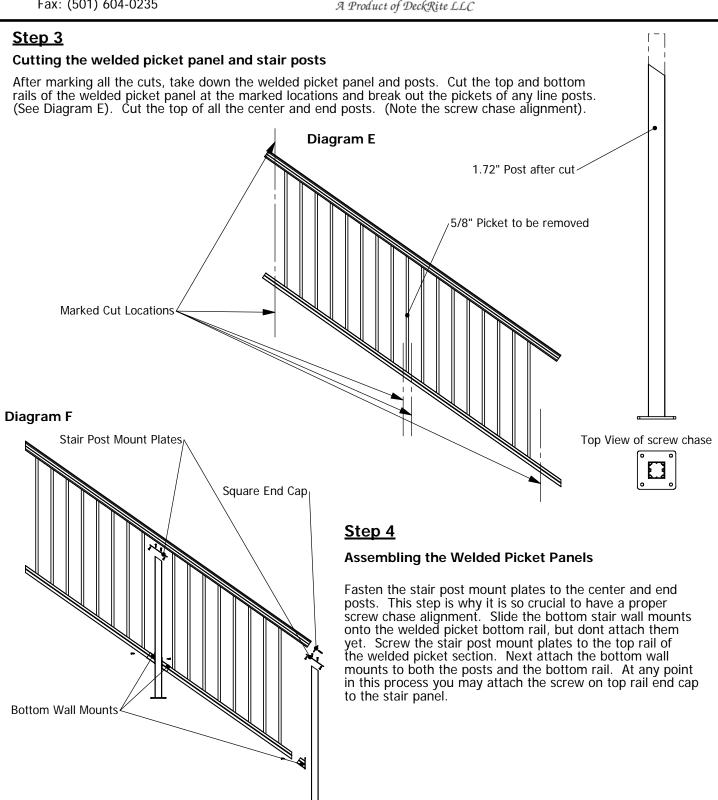
Next Mark the top of the posts with the height and angle to be cut into them.



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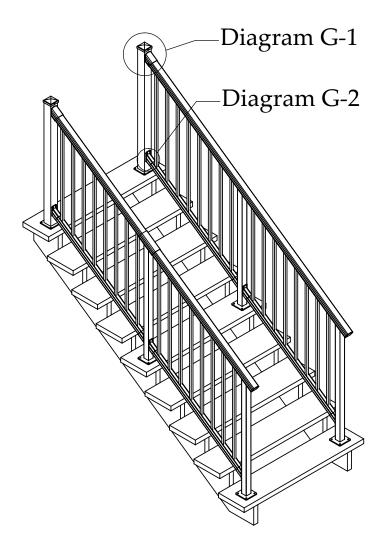
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Step 5

Installing stair top wall mounts
Slide top and bottom wall mounts onto welded picket panel. Position top 2 1/2" post and welded picket panel on the stairs. Mark locations of top and bottom wall mounts on the 2 1/2" post. Remove either the panel or the 2 1/2" post, depending on which is more convenient. Attach the wall mounts to the 2 1/2" post as indicated. Attach welded picket stair panel to wall mounts. Note that the top wall mounts attach to the 2 1/2" post so that the fasteners are not visible when the welded picket panel is in place.



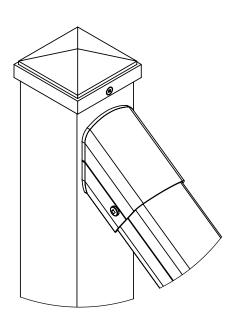


Diagram G-1 (1:3)

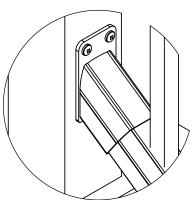


Diagram G-2 (1:3)

Step 6

Fastening posts to stairs

Finally, screw all the posts to the stair treads using approved fasteners.