

# SUPERIOR

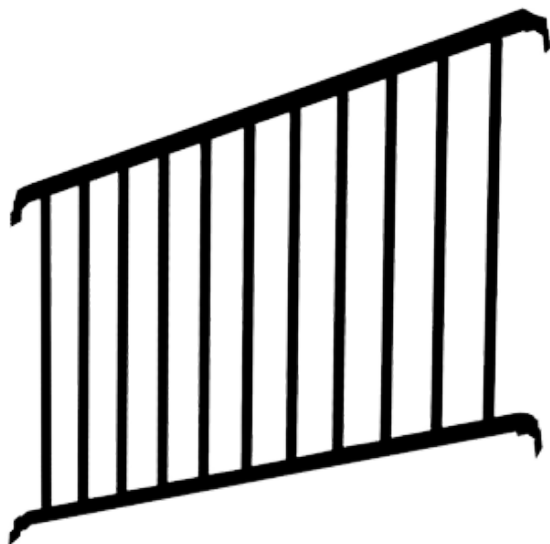
## ALUMINUM PRODUCTS

### Stair Picket Railing Kit

*Superior Aluminum Series 9P Residential Railing*

*For 4' and 6' railing sections*

***Assembly Instructions***



**SCAN  
HERE**  
FOR DIGITAL  
INSTRUCTIONS



# LET'S GET STARTED

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SCAN FOR DIGITAL INSTRUCTIONS



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**ESTIMATED TIME FOR ASSEMBLY**



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## Warranty:

Superior Aluminum Products manufactures top-quality railing from premium aluminum, guaranteeing durability and craftsmanship. Our painted finish is backed by a two-year warranty against common issues, with exceptions for oceanfront installations. Defects in workmanship or materials are covered for the same period. For full warranty details, please email [info@superioraluminum.com](mailto:info@superioraluminum.com).

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*At Superior Aluminum, safety is our top priority. It is the responsibility of the purchaser to meet all code and safety requirements and all required safety practices. Superior Aluminum Products and its distributors are not responsible for improper use or unsafe installation practices. For more details, please contact us at [info@superioraluminum.com](mailto:info@superioraluminum.com)*

QUESTIONS OR CONCERNS?

## CONTACT US



[info@superioraluminum.com](mailto:info@superioraluminum.com)



(937) 526-4065

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## YOU WILL NEED:

- Safety Glasses
  - Tape Measure
  - Pencil
  - Drill
  - Phillips-Head bit, 5/16" hex head driver bit, & 1/4" drill bit
  - Rubber Mallet
  - Chop Saw (if needed)
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## CARE & MAINTENANCE

Use a damp cloth to wipe off dust and dirt periodically. When necessary, use warm, soapy water to clean your railing. Regular cleaning of the railing is necessary to keep the railing in good condition and ensure its durability.

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### Have an issue?

Let us know.

### Love your product?

Let everyone know.

### Leave us a review

[superioraluminum.com/reviews](https://superioraluminum.com/reviews)

**SUPERIOR**  
ALUMINUM PRODUCTS

# WHAT'S INCLUDED?



**Top Rail (A)**  
(x1)



**Bottom Rail (B)**  
(x1)



**Screw Cover (C)**  
(x2)



**3/4" Square Pickets (D)**  
(x10 for 4' kit | x15 for 6' kit)



**Vertical Swivel Bracket - Top Rail (E)**  
(x2)



**Vertical Swivel Bracket - Bottom Rail (F)**  
(x2)



**1" Self-Drilling Screw (G)**  
(x12)



**1" Picket Screw (H)**  
(x20 for 4' kit | x30 for 6' kit)



**Binder Bolt (I)**  
(x4)

## SIZING YOUR RAIL (IF NECESSARY)

If you determine that your railing needs to be cut down, follow these steps before moving to the assembly of your rail kit. If your rail does not need cut, skip to Part 1.

### STEP 1

*This step assumes that your stairs have a standard pitch between 28° and 35°. If your stairs fall outside this range, contact us or consult a professional contractor.*

Slide the screw covers (C) out from the top (A) and bottom rail (B). Measure from the tip of the landing that your top stair post will be mounted on to the tip of the bottom stair. This is what will be referred to as tip-to-tip length.

Subtract **6-1/4"** from tip to tip length to find your cut length. Mark the top and bottom rail at cut length, being mindful of picket spacing (cut with the same amount of rail past each end picket. Be sure first picket hole is not within 1 1/2" of end of rail to allow for bracket).



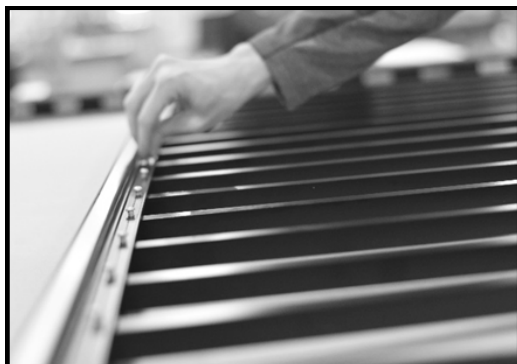
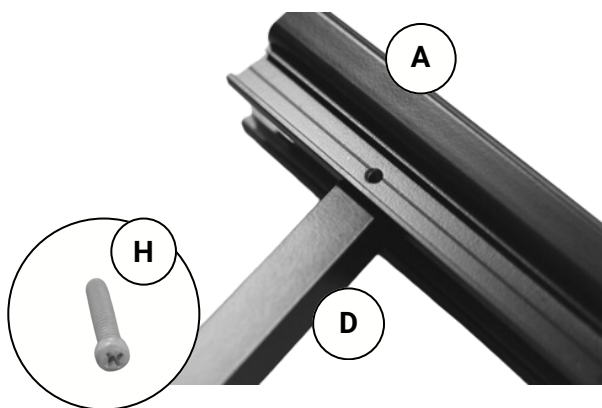
### STEP 2

Use a chop saw to make the necessary cuts to both the top rail, bottom rail, and screw covers.

# PART 1: RAILING ASSEMBLY

## STEP 1

Slide the screw covers (C) out from the top (A) and bottom rail (B). Insert a picket (D) into the first opening in the top rail, aligning the holes. Insert a picket screw (H) through both holes. Do not tighten the picket screw yet.

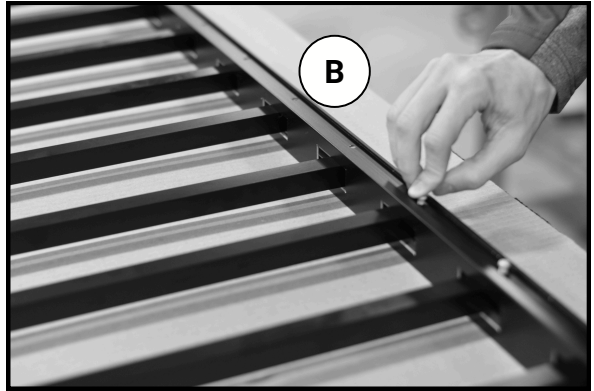


## STEP 2

Repeat Step 1, inserting all pickets and picket screws into the top rail, but don't tighten the picket screws yet.

## STEP 3

Repeat the above steps with the bottom rail (B), aligning all picket holes and inserting screws, but not yet tightening the screws.



*Note: Getting the first picket in and adding the screw is key to getting the rest of the bottom pickets to line up. It may be helpful to tap the bottom rail with a rubber mallet to accomplish this step.*



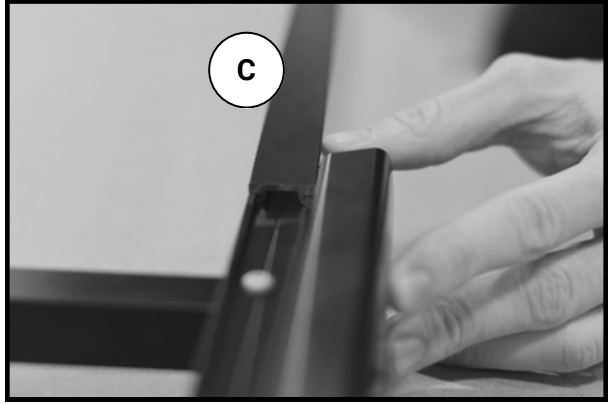
## STEP 4

Once all pickets and picket screws are set, use a drill (set on a low torque) to tighten the screws into both the top rail and bottom rail.

*Note: Be sure to not over-tighten the screws*

## STEP 5

Slide the screw cover (C) into the groove on both the top rail and bottom rail to conceal the picket screws.



# PART 2: ATTACHING TO POST(S)

## (POSTS SOLD SEPARATELY)

*Note: Mounting your railing to an existing structure, such as a porch column or a wall, uses a similar process. Follow the instructions below, but pay attention to special instructions with a (\*) next to them.*

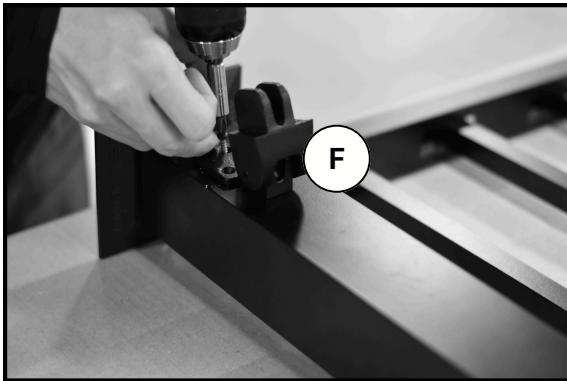
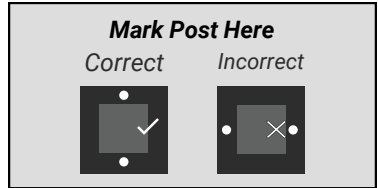
### STEP 1

Begin with the top post (shorter post). Then mark a line on the post **1-3/4"** above the top of the base.



*\*When mounting to an existing structure, mark the structure at **2-1/4"** from the ground.*

**Ensure the brackets are installed on the side of the post that is perpendicular to the holes in the post base.**



### STEP 2

Align the bottom edge of the bottom bracket with the marked line on the post and secure it in place using 3 self-drilling screws.



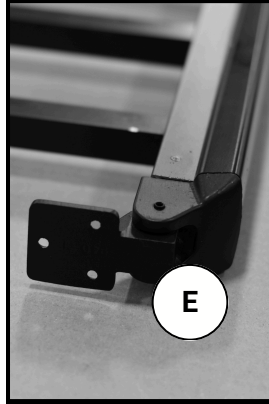
## **STOP** STEP 3

The rail only angles one way. **Before attaching to posts, ensure the open space on the bottom rail next to each picket is toward the top step.**

Next, slide the top end bracket onto the end of the top rail. Slide the post with bottom bracket attachment onto the bottom railing but do NOT fasten.



*\*larger opening towards top (shorter) post*



*\*When mounting to an existing structure, you'll need to prop up the railing to achieve this step. For best results, use a wood spacer or an additional person for support.*

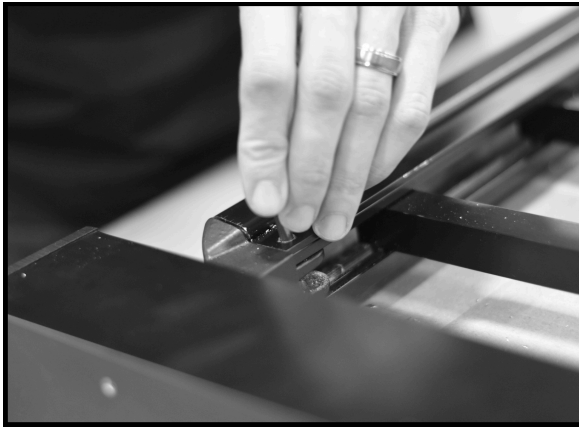


## STEP 4

Mark the post with each mounting hole location for the top end bracket and remove the railing from the end brackets.

## STEP 5

Use 3 self-drilling screws to mount the top rail end bracket onto the post, being careful to attach where marked.



## STEP 6

Slide the post that now has two brackets back onto the rail. Using a 1/4" drill bit, drill a hole from one side of top/bottom rail through bracket and out the other side. Fasten the brackets to the top and bottom rail using the binder bolts. It is highly recommended this be done on the side of the railing with the screw covers.

## STEP 7

Insert top and bottom end brackets into the open end of your railing.

Stage your rail by placing the top post on the top landing where you will mount it. (It is recommended to place the base 4" from the tip of the top step.)



## STEP 8

Stage the bottom post at the end of the rail so that brackets are flush to bottom post and mark hole locations of brackets on bottom post.

*Note: This may be easier with a second person.*

## STEP 9

Remove the brackets from the rail and use your marks to attach the brackets to the bottom post using self-drilling screws.

Then, slide the rail into the attached brackets, drill through the rail and brackets, and fasten using the remaining binder bolts.



## MOUNTING YOUR RAILING

**Due to a variety of mounting conditions, Superior does not provide specific instructions for mounting your railing.**

Typically, Superior Aluminum railing will be mounted in one of two ways:

**Surface mounted to concrete:** It is recommended to utilize a wedge anchor at least 3" in length. Diameter of anchors for Superior Aluminum Series 9P post bases should be 3/8". If possible, railing should be mounted at least 5" from the edge of concrete to the middle of the post to avoid breakage.

**Surface mounted to wood/composite material:** It is recommended to utilize an anchor that is at least 4" in length. Wood/composite surfaces **MUST** have proper blocking underneath mounting point to ensure sufficient strength. Diameter of anchors for Superior Aluminum Series 9P post bases should be 3/8". If possible, railing should be mounted at least 4" from the edge of surface to the middle of the post to avoid breakage.

Whenever possible, it is recommended that mounting be performed or supervised by individuals experienced and familiar with construction trades. Superior Aluminum maintains no liability for issues related to improper mounting of railing.



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555 E. Main St., PO Box 430

Russia, OH 45363

(937) 526-4065

**[www.superioraluminum.com](http://www.superioraluminum.com)**