

# Installation Instructions

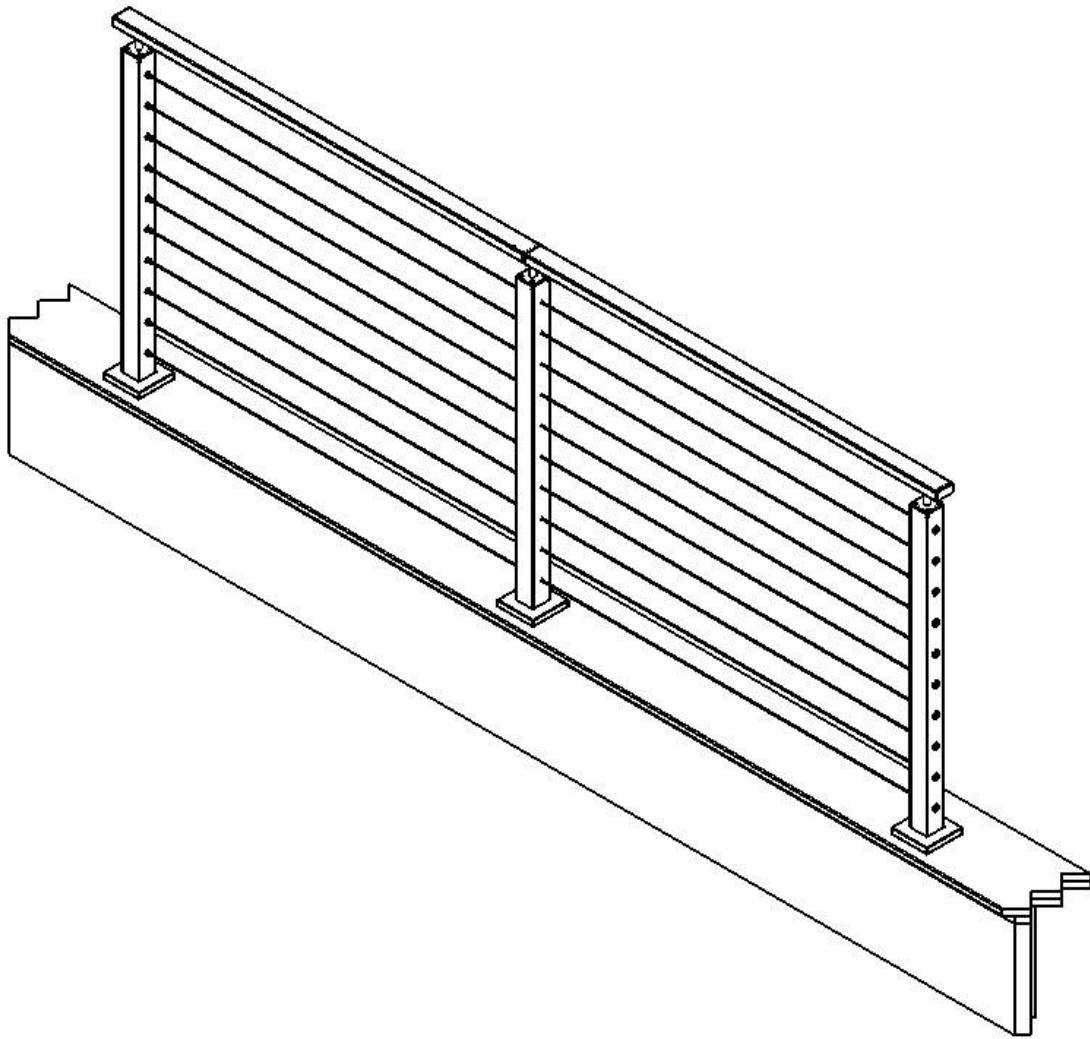
## LYNX™ Railing Systems

### SERIES 3000 – CABLE RAILING

*Post Supported Cable Railing for Decks, Lofts and Closure Railing*

#### PRODUCT DESCRIPTION

LYNX™ Series 3000 Cable Railing System by Paragon Stairs provides a distinct style that offers an unparalleled contrast to classic rod or post systems. Fully integrated post support cable railing comprised of finished aluminum posts outfitted with brushed 2205 stainless steel fittings and covers, which offer outstanding corrosion resistance for interior and exterior applications. Railing kits are available in 4 ft, 8 ft, 12 ft and 16 ft standard lengths kits that can be trimmed and configured to fit your specific application.



Paragon Stairs  
106 GP Clement Drive  
Collegeville, PA 19426



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# Installation Instructions

## *POST MOUNTING: (Please refer to Installation Drawing for your project specifics)*

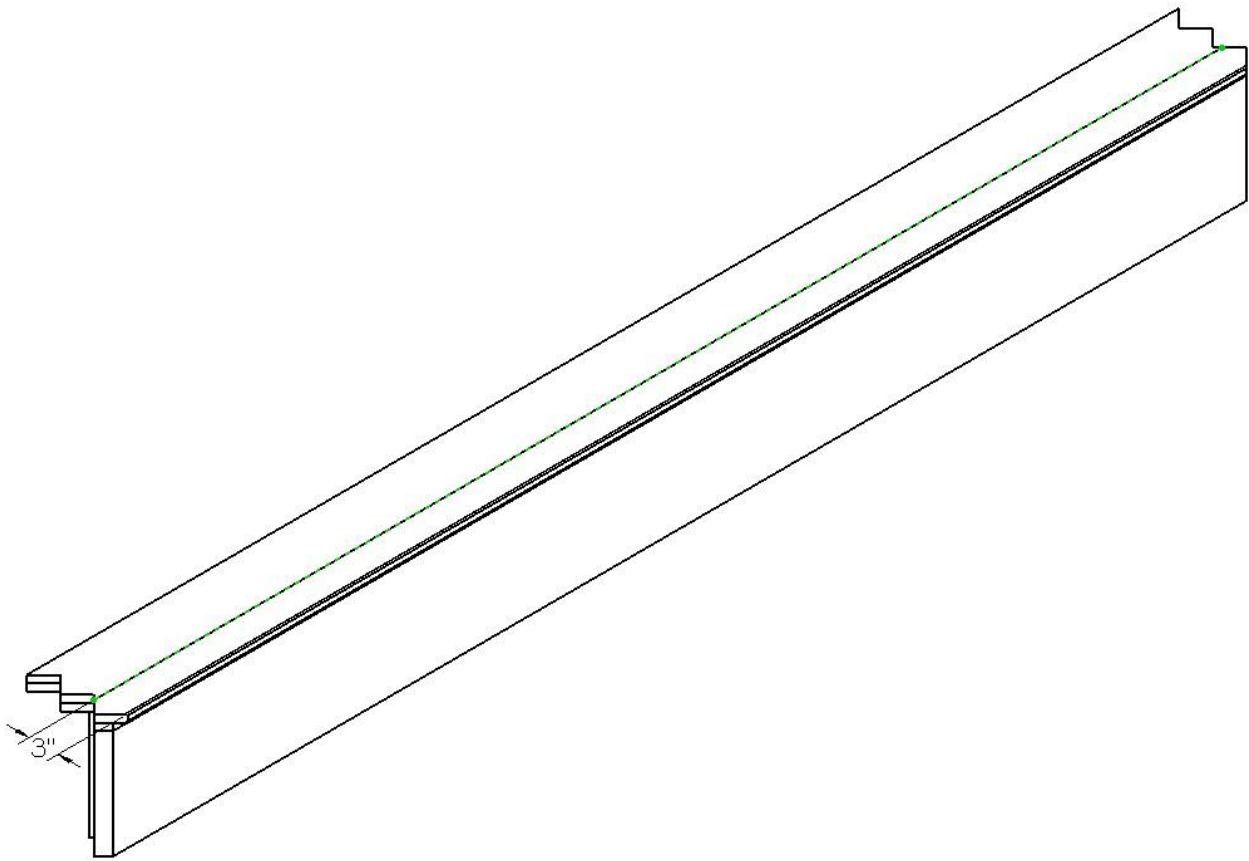
The center line of the post has been designed to be offset from the edge of the deck or loft space by 3.00" on center, or 3/4" from the edge of the post baseplate. Measure at each end of the space and pull a chalk line. Posts are designed to be no greater than 48" apart on center. Position the post along the chalk-line at the appropriate spacing between posts. Secure the post to the deck/loft surface with fasteners suited to the mounting surface.

## *RECOMMENDED MOUNTING HARDWARE (Not included in kit)*

*For wood surface: GRK RSS 5/16" x 2-3/4" long structural wood screw or equivalent.*

*For Concrete: 5/16"-18 expansion anchor or equivalent.*

Please note, the intermediate post(s) should be located equal distance to the end posts.



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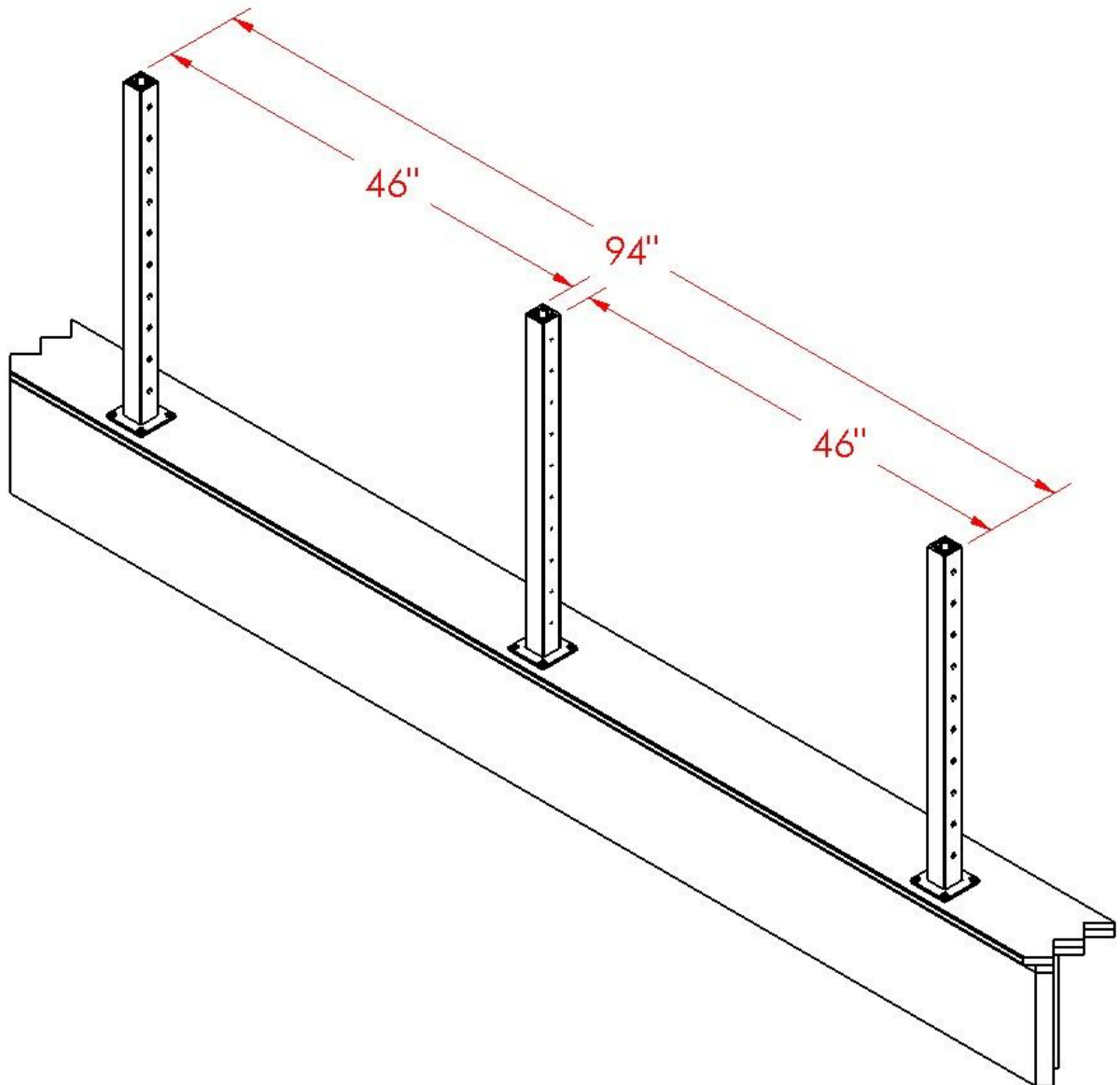
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## POST POSITIONING:

Glass railing support posts are supplied with pre-installed threaded inserts for attaching the glass or fittings. Posts are designed specifically for your project, ensure the correct post is utilized in the correct location on the stair by referring to the included project drawings. Locate the escutcheon plate and carefully slide it down the length of the post. The scutcheon plate is utilized to cover the post base plate and mounting hardware.



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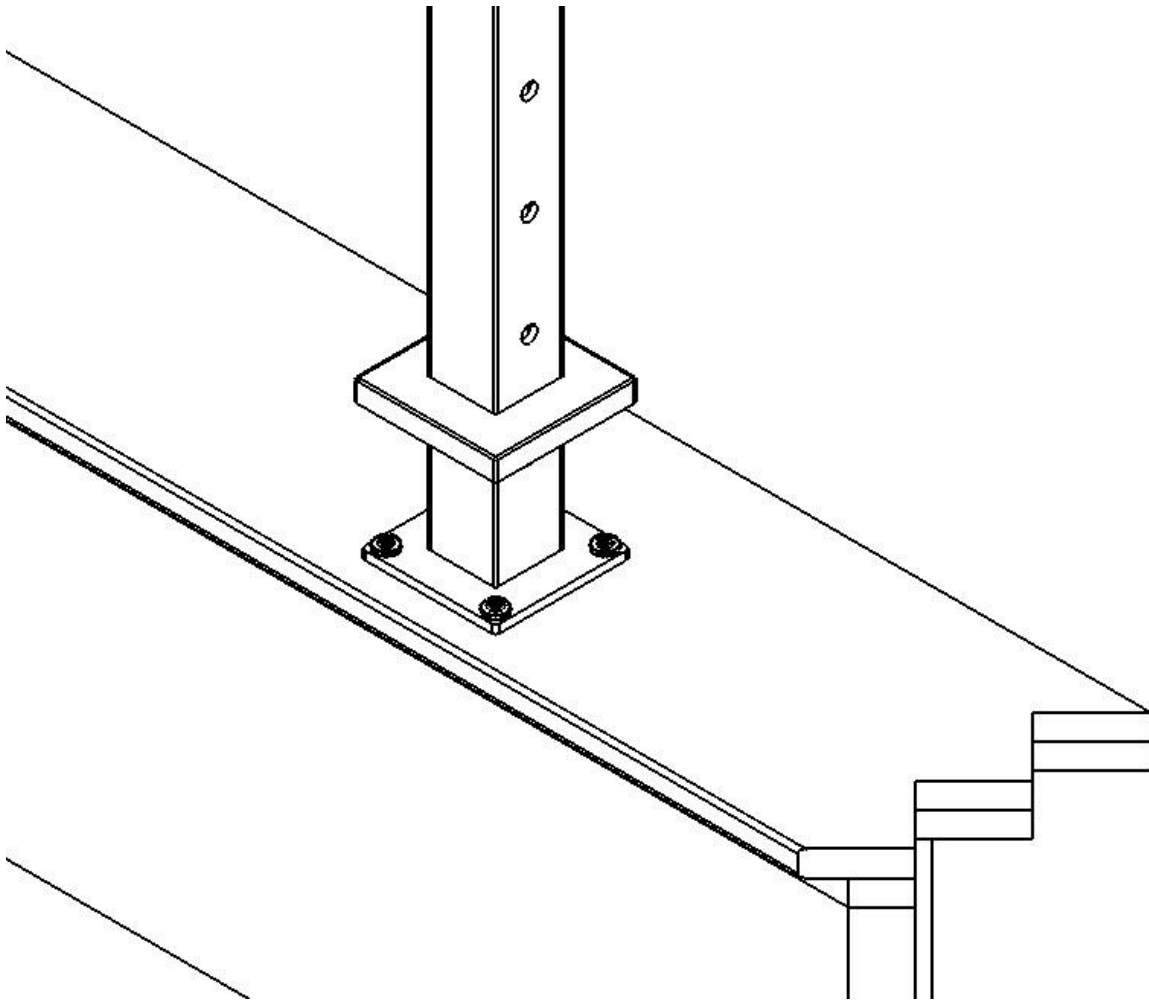
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## ESCUTCHEON PLATE INSTALLATION:

Prior to installing the escutcheon plate, the post should be plumbed as required by shimming under the post baseplate. Be sure to trim the shim material to the edge of the post baseplate to ensure it is concealed under the escutcheon plate. At this point the escutcheon plate can be installed over the post baseplate to conceal the post mounting.



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## POST FITTING MOUNTING:

Post top fittings, adjustable or fixed, can be secured to the post top via the screw bosses within the post extrusion with the included M5 trilobal thread forming screws. Align the fitting in the correct orientation to correspond to the location of the post and capping requirement. Utilizing an impact driver for this operation, drive the M5 trilobal thread forming screws thru the fitting plate into the post extrusion screw boss. Be sure to double check the fitting is aligned correctly to the fitting baseplate prior to installation on the post extrusion. If adjustment is required, loosen the fitting mounting screws, adjust and re-secure after the adjustment



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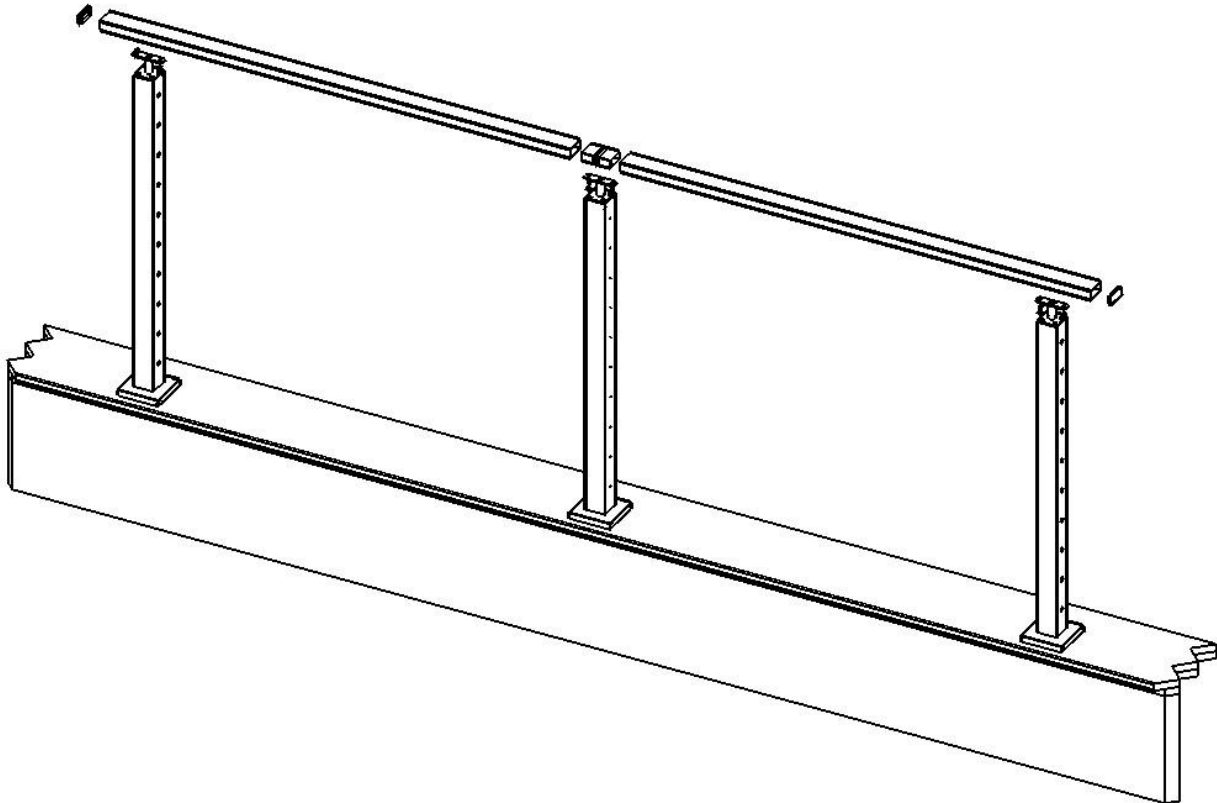
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# Installation Instructions

## HANDRAIL/CAPPING INSTALLATION:

Handrail/capping is provided in 4 ft long length(s) that may require trimming to length for your specific application. Measure the overall length from outside face of the end posts. The total capping length is 2.00" longer than the post-to-post distance, trim handrail/capping as required. Insert the handrail capping connector into the ends of the handrail/capping tube.

*TIP: The handrail/capping joint should center over the intermediate post as shown.*



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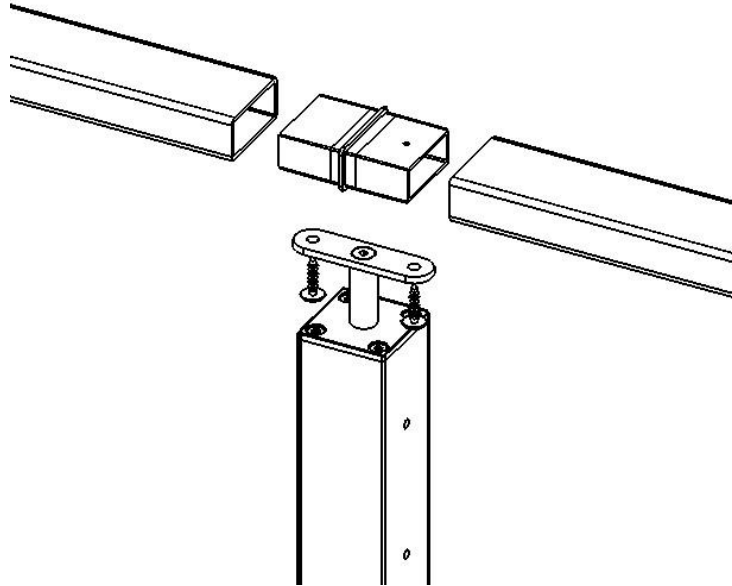


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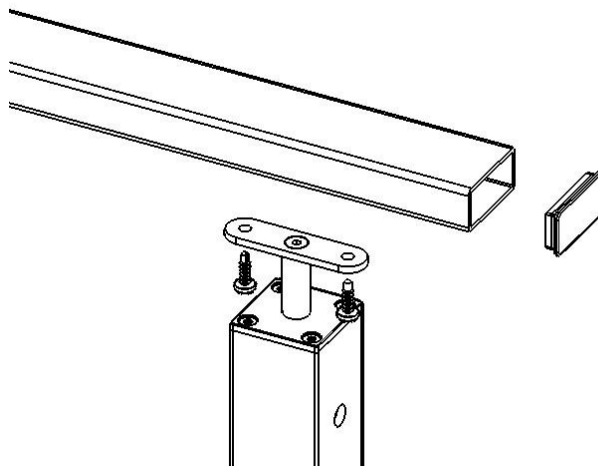
# Installation Instructions

Secure the handrail/capping to the intermediate post with the self-drilling-tapping screws provided.



## HANDRAIL/CAPPING INSTALLATION – cont.:

Open the epoxy packet, mix to a milky color, and apply a small amount of epoxy to the end cap shoulder. Insert the end cap into the handrail/capping tube. End cap may need to be tapped into the tube with a hammer to the end cap in completely seated at the end of the capping. The handrail can now be secured to the end posts with the self-drilling-tapping screws provided.



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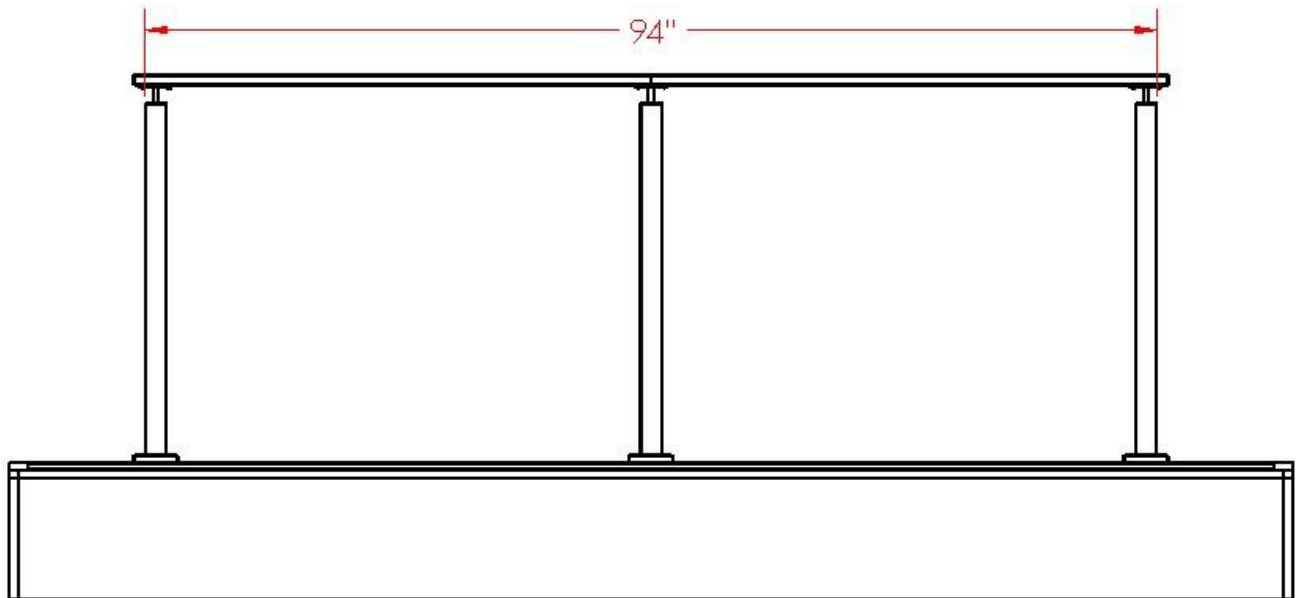
# Installation Instructions

## CABLE FABRICATION INSTALLATION:

Measure the overall distance from outside face of the end posts. On a flat surface you will create a layout with masking tape spaced at the same distance as the post spacing just measured. Mark the tape at a distance 1-1/2" shorter than the post distance just measured. Lay the cable out on the flat surface, pull it straight and trim to length utilizing the marks on the tape to achieve the correct length, confirm the overall cable length is 1-1/2" shorter than the post spacing.

### ONLY CUT ONE PIECE OF CABLE

*In the illustration below the post spacing is 94.00", the cable cut length will be 1-1/2" shorter, at 92.50"*



Confirm the cable length is correct, cut a second piece of cable the same length. Take the first piece of cable and thread it through the intermediate post(s).

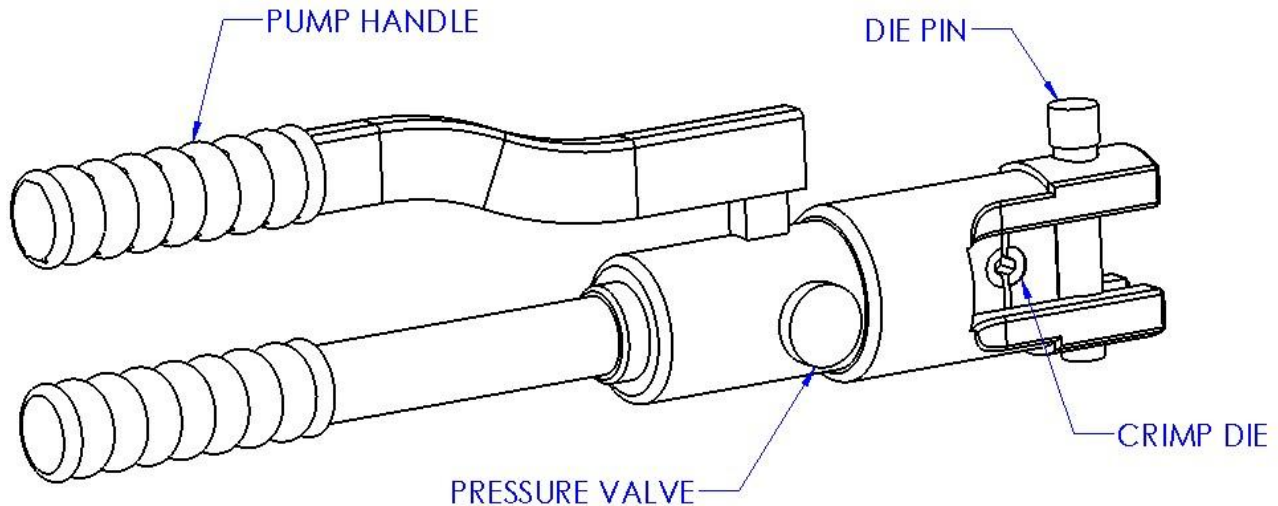
*Go to the Cable Swaging Section of the Instructions Before Proceeding*

# Installation Instructions

## CABLE SWAGING

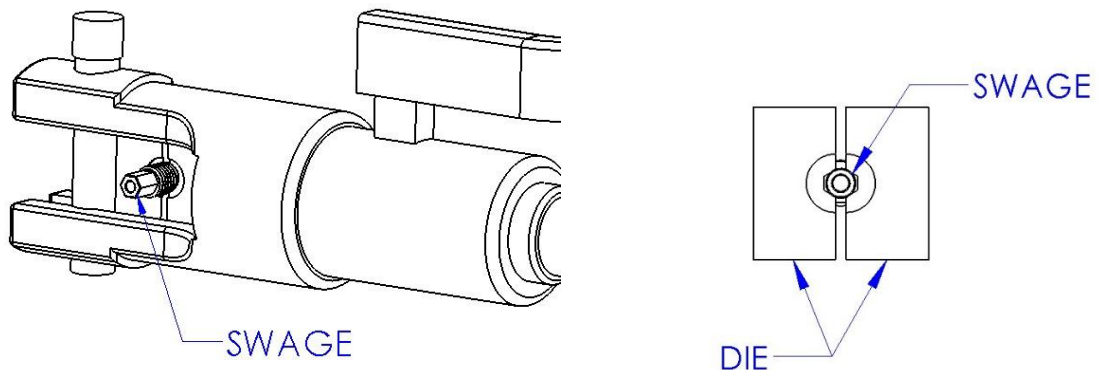
### CABLE SWAGE/CRIMPER TOOL:

Swage/crimping tool is an 18-ton hydraulic tool that utilizes pre-sized dies to swage/crimp the swage tool to the cable. To swage/crimp the 1/8" cable the tool should be loaded with the #10 die set.



To load dies, release any pressure from the tool by rotating the Pressure Valve counterclockwise, remove the die pin at the end of the tool, slide the #10 dies into the end and replace the pin back into the tool. Insert the swage into the die; be sure to center the swage in the die jaws and the flat of the threads is flat to the die face. Close the pressure valve by rotating clockwise, cycle the pump handle several times to apply enough pressure to the die to hold the swage firmly.

**DO NOT OVER PUMP THE PRESSURE HANDLE, SWAGE SHOULD ONLY BE SNUG IN THE DIE, ENSURE THE SWAGE IS CENTER WITHIN THE DIE OR DAMAGE TO THE DIE SET WILL OCCUR**



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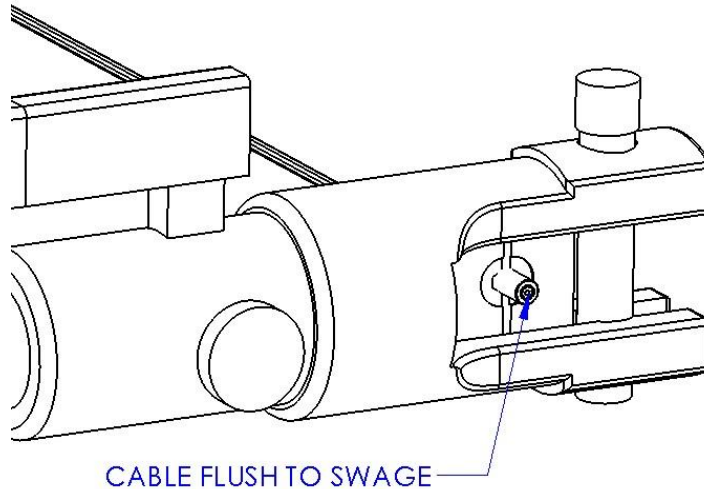


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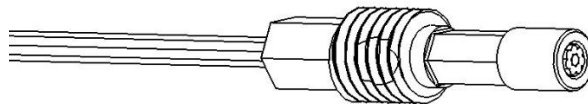
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# Installation Instructions

Insert the cable into the threaded end of the swage until it flushes with the opposite end of the swage. If the cable extends beyond the surface of the swage, it will limit the cable tension adjustment.



Hold the cable firmly to limit movement and pump the pump handle until the die sections come together closing the gap between the die sections. This will collapse the swage securing it to the cable. The finished cable end with swage should look like the image below:



Repeat this procedure at the opposite end of the cable. The overall length should be equal to the end post distance minus 1-1/2”.

Test fit the cable assembly in the railing assembly; it should fit with the hex section of the swage extending beyond the face of the posts equally at both posts. The remaining cable runs can now be fabricated in the same manner.

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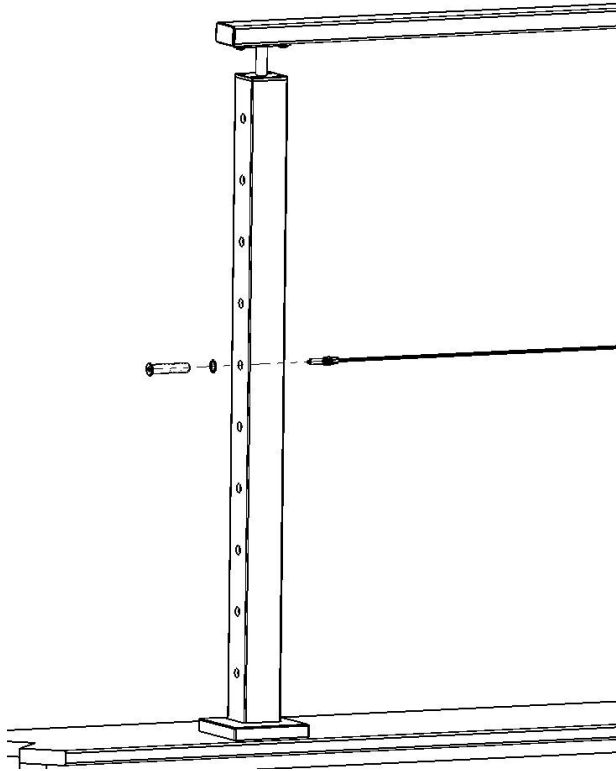
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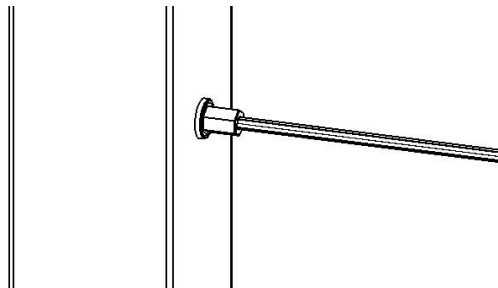
# Installation Instructions

## CABLE INSTALLATION:

Insert the cable adjust body with the include delrin washer through the post at hole #5 from the top of the post; do this for both end posts. Apply a small amount of LocTite to the swage threads prior to screwing the adjuster on to the swage. Thread the previously fabricated cable assembly into the adjuster body, repeat at both ends of the fabricated cable assembly until the cable is taut.



The hex element of the swage will extend beyond the face of the post; the amount of extension beyond the post surface can be adjusted by adjusting the adjuster body at each post. An equal amount of exposure of the hex at each end of the cable run is desirable. Adjustment can be made with the following tools: adjuster body accepts a 5mm Allen wrench and the swage accepts a 7mm open end wrench.



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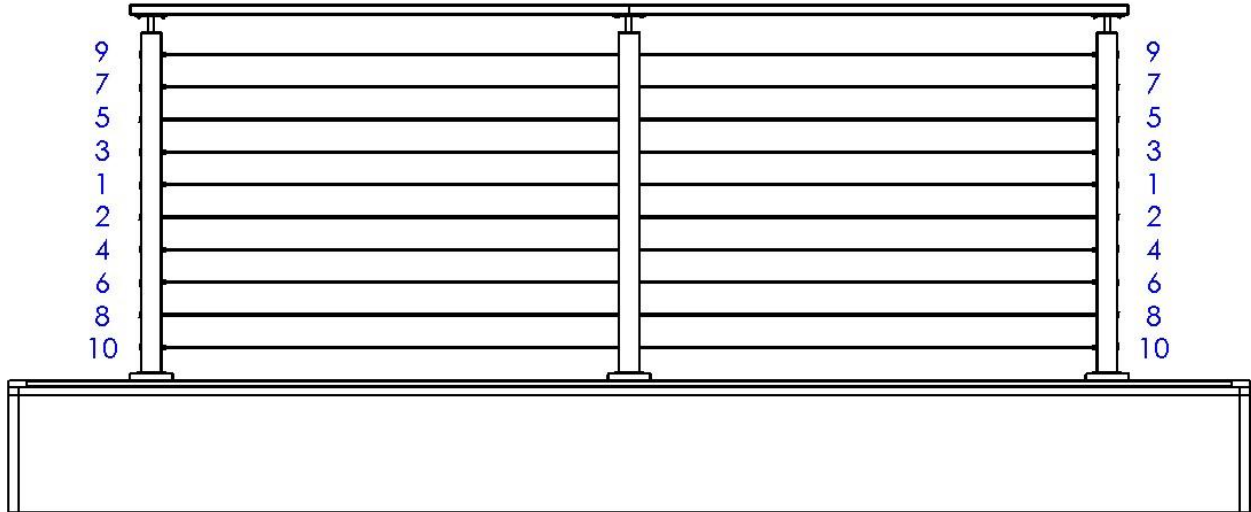


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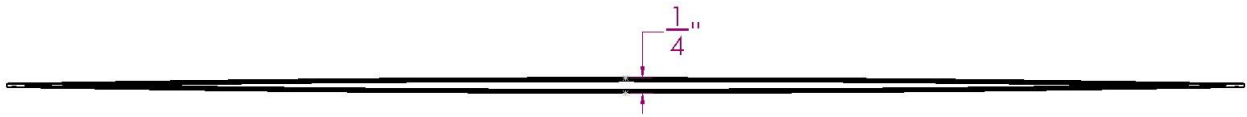
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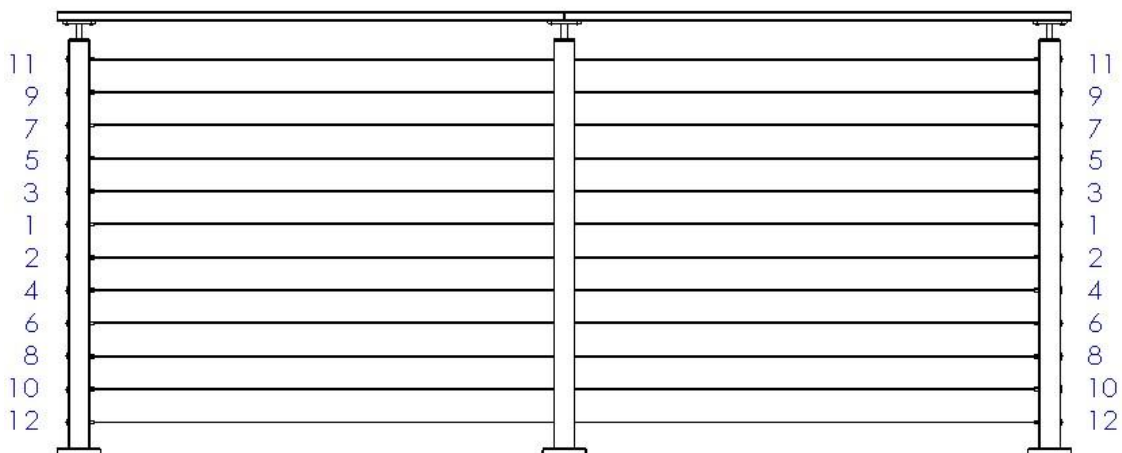
The remainder of the cable should be installed in the following sequence for 36.00" railing:



The tension of the cable is set by adjusting the cable adjuster end to achieve  $\frac{1}{4}$ " deflection in the middle of the span between posts.



Following sequence for 42.00" railing:



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