

# ROD RAIL INFILL



## INSTALLATION GUIDE



### RECOMMENDED TOOLS

- Safety Glasses
- Tape Measure and Pencil
- Level
- Drill & Bits
- Hammer Drill (if concrete)
- Miter or Circular Saw w/ Fine-Tooth Aluminum Cutting Blade
- Rubber Mallet

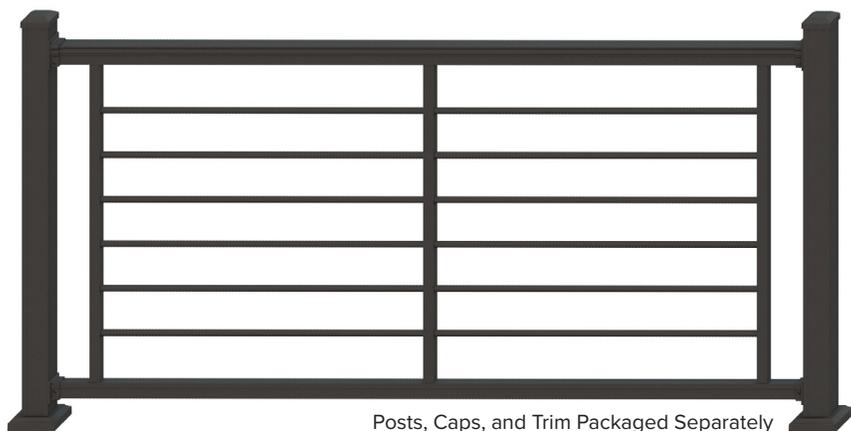
### AVAILABLE FROM KEY-LINK



Internal Baluster Mount Locating Tool

### WHAT'S INCLUDED

- Top and Bottom Rails
- Mounting Brackets and Screws
- Balusters
- Rods
- Baluster Inserts and Spring Clips
- Snap on Section Support (for sections over 6')



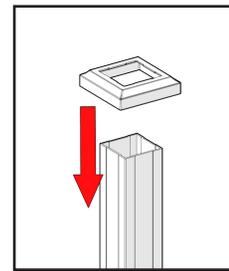
Posts, Caps, and Trim Packaged Separately

# 1 INSTALL THE POSTS & POST TRIM

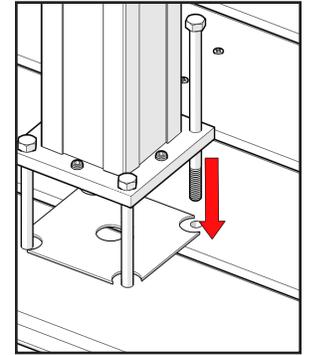
Position the posts according to the supplied section lengths, or where preferred and the section will be cut to length. Place leveling plates between the posts and the mounting surface as shown.

Attach posts to the mounting surface using bolts or lags, according to local building codes. Tighten until snug, then use a 3/16" hex key to turn the leveling set screws to level the posts. Once level, finish tightening the bolts or lags and place the trim over the posts.

■ Note: If installing the Chesapeake top rail option, see addendum



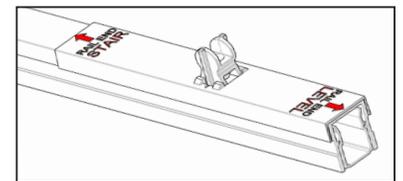
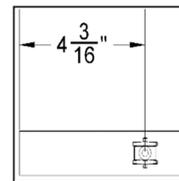
Placing trim



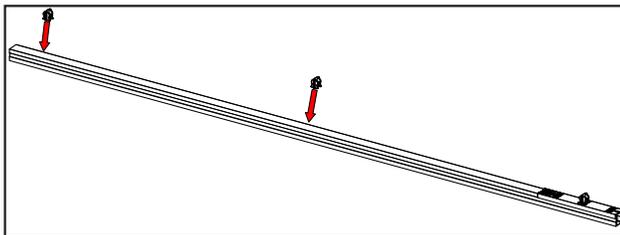
# 2 ATTACH INTERNAL BALUSTER MOUNT

■ Note: If needed, cut rails to the proper length.

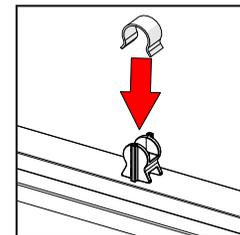
Mark the top of the bottom rail 4-3/16" in from each edge. Make a third mark in the center of the rail for the intermediate baluster. If the space between balusters is greater than 36", Make 2 equally spaced marks between the end marks for a second intermediate baluster. Align the ends of the top and bottom rail and transfer the marks from the bottom rail to the bottom of the top rail. Using #10 pan head screws, attach the internal baluster mounts with the holes centered on the marks.



## Using Internal Baluster Mount Locating Tool:



Place locating tool on rail with edge marked **level end** flush with the top edge of the rail. Notches on the center of the fixture can be used to locate center baluster mount.

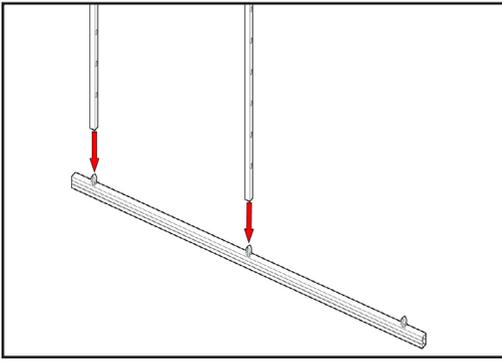


Place spring clip over internal baluster mounts.

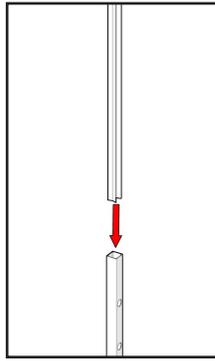
# 3 INSTALL RODS

Measure the distance from the base of the first internal baluster mount to the base of the last and subtract 1/16" to determine rod length. Cut rods to length if needed.

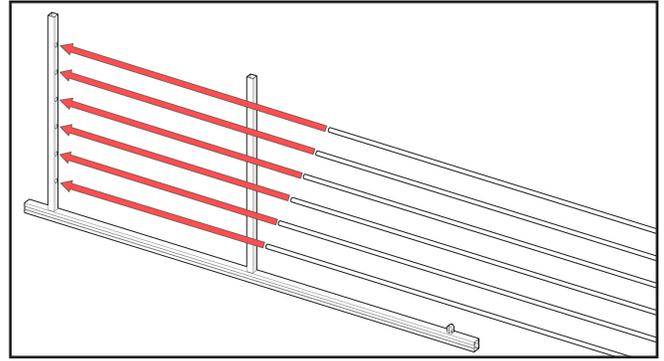




Push center baluster and 1 end baluster onto baluster mounts of bottom rail.



Slide vinyl inserts into balusters.



Slide rods through center baluster into end baluster.

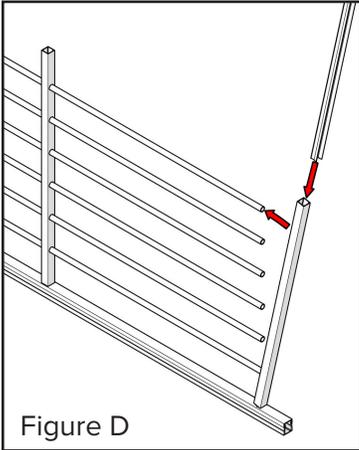
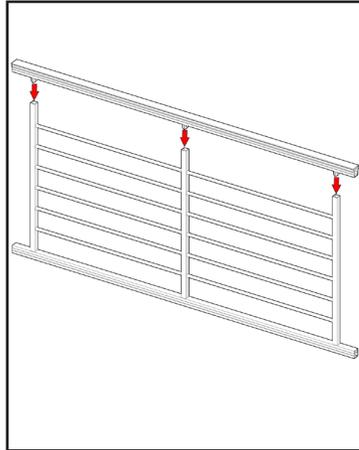
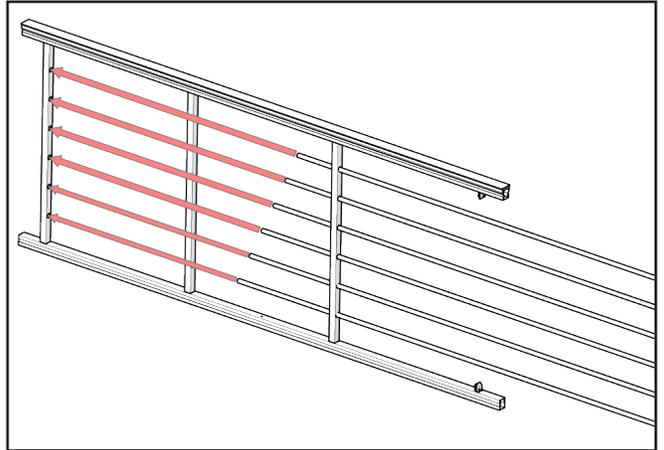


Figure D

Push last baluster onto the baluster mount at an angle. Then, slide inserts into the last baluster and push the baluster onto the rods.



Push top rail onto balusters. (Rubber mallet may be required to fully seat)



Before inserting rods in 8' sections, attach top rail **without spring clips** to hold the balusters steady while inserting rods to prevent scratching as they are inserted.

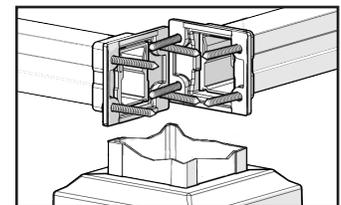
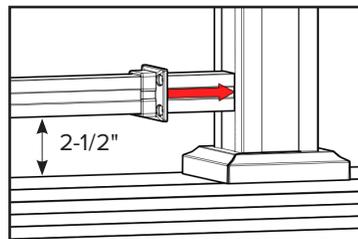
After rods have been inserted, remove top rail and attach spring clips to baluster mounts and proceed with the install as shown in **Figure D**.

■ Pro Tip: If vinyl from the inserts becomes deposited on the rods, use a non-scratch scouring pad with soap to remove.

## 4 INSTALL SECTION

Slide brackets onto rails. Then, place section between posts with top rail at 36 or 42 inches from the deck surface.

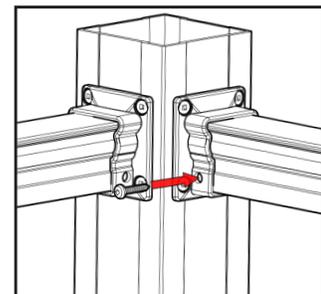
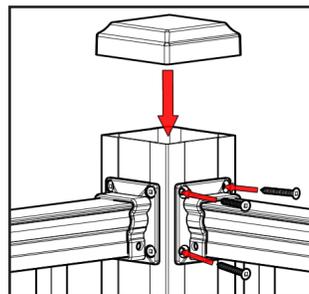
**TIP:** Cut a block to 2-1/2" and set Bottom Rail on it for support during installation. \*Recommended: (If using 2-1/2" Posts) offset one section by raising it an additional 1/8" (helps avoid Mounting Bracket screw interference).



\*2-1/2" Post: 1/8" offset shown

Slide the self centering brackets against the post. Fasten bracket to the post using #12 screws, and secure bracket to rail using #10 pan-head screws.

Place cap on post and use rubber mallet to set in place.



## 5 INSTALL STAIR RAILING

Measure from the inside edge between posts, subtracting  $\frac{3}{8}$ " from the total length. **Fig. E**

If needed, trim Rail equally from both ends.

To ensure proper alignment, cut Upper and Lower ends of Top and Bottom Rails at opposite angles.

Mark rails 5" in from each edge. Make a third mark halfway between the end marks. Make two marks between the end marks if the space between marks is greater than 36". Using #10 pan head screws, attach internal baluster mounts centered on the bottom surface of the top rail and the top surface of the bottom rail with the hole centered on the marks.

\*Using Internal Baluster Mount Locating Tool: Place locating tool on rail with edge marked *stair end* flush with the top edge of the rail. Notches on the center of the fixture can be used to locate the center baluster mount.

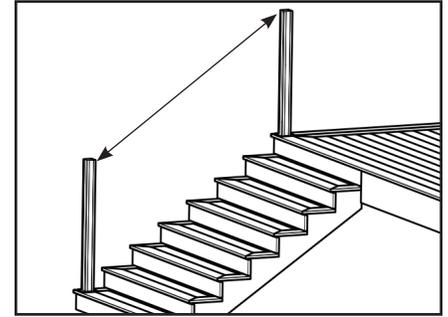
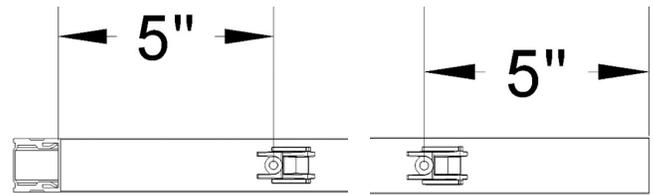


Fig. E



Best practice is to set the location of the post at the top of the stair first, then use the level section adjacent to it to set the height of the brackets. Using these locations as a guide. Continue marking and setting the rest of the bracket locations on the stair posts. **Fig. G**

**!** Verification: For stair sections, mount as shown below:

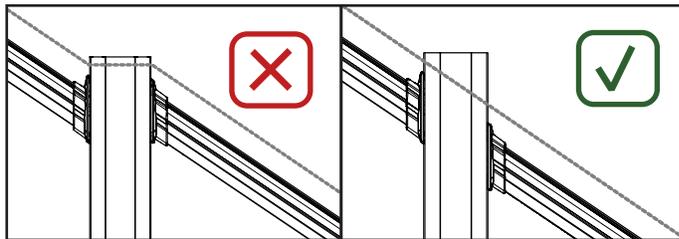
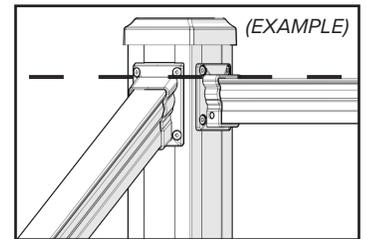


Fig. G

Ensure that the stairs' Top Rail doesn't exceed the level rail height of the opposite Rail.



Repeat steps 2 through 4 to Install Rails, Mounts, and balusters

## 6 INSTALL STAIR RODS

Measure the distance from the base of the first internal baluster mount to the base of the last and subtract  $\frac{1}{4}$ " to determine rod length. Cut rods to length if needed.



# CHESAPEAKE SERIES

## RAIL OPTION I *ROD RAIL*

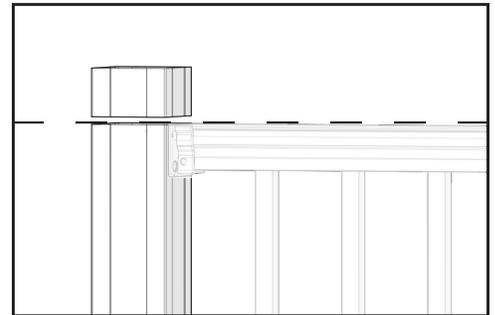
### WHAT'S INCLUDED

- Top and Bottom Rails
- Balusters
- (2) Deckboard Mounting Brackets
- (2) Bottom Level Brackets
- Snap on Support (for 8' sections)
- (17) #12 x 1" Self Drilling Flat Head Screws
- (9) #10 x 3/4" Self Drilling Pan Head Screws
- (15) or (19) #8 x 3/4" Type 17 Pan Head Screws

## 1 CUT POSTS TO HEIGHT (OPTIONAL)

Posts are provided at a standard height, and must be cut to length (Prior to section's installation).

Refer to step 5 for Top Rail height, and cut Posts to match overall height.

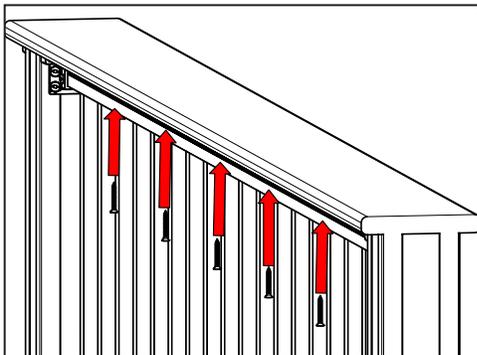


## 2 INSTALL DECKBOARD (OPTIONAL)

Using the supplied #8 x 3/4" pan head screws fasten the deckboard (not supplied) to the top rail from beneath by using the predrilled holes of the top rail. It is recommended to drill a 1/8" pilot hole in the deckboard to avoid splitting.

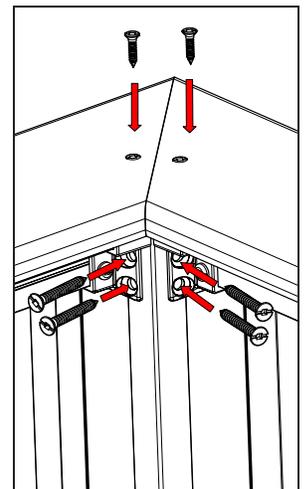
### ! Drilling Pilot Holes

If the rail has been cut to another length, drill 3/16" pilot holes evenly spaced in the aluminum top rail channel. Pilot hole must be at least 2" from end of rail.



### ! Corner Install Recommendation

When installing the corner of a railing it is recommended to insert a wood block in the top of the post. Cut the block to fit snugly in the post. When fastening the top brackets with the provided #12 x 1" screws the screws should also secure the wood block. Using wood screws (not provided), secure the deck board to the wooden block. This will ensure the edges of the deckboard do not lift up.



1. These directions are only a guide and may not address every situation.
2. Always wear proper safety equipment while assembling and installing.
3. The installer should obtain all required building permits and follow all installation procedures in accordance with applicable building code requirements.
4. Keylink Fencing and Railing Inc. shall not be held liable for improper or unsafe installations.
5. Applying paint, other than Keylink's touch up paint, will void your warranty.
6. To ensure proper coverage by our warranty please visit our website and complete the warranty form and mail to: Keylink, 110 Peters Road, New Holland, PA 17557



WARNING: This product can expose you to chemicals including Quartz (crystalline silica), which is known to the State of California to cause cancer, and Hexavalent Chromium, which is known to the State of California to cause birth defects or other reproductive harm. For more information go to [www.P65Warnings.ca.gov](http://www.P65Warnings.ca.gov).



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