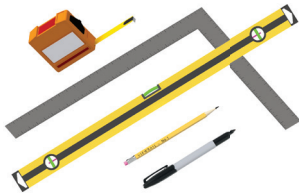




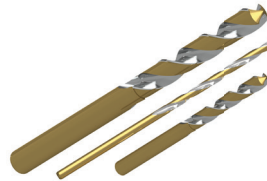
### Tools Needed for this Installation



Measuring Tools



Drill



$\frac{3}{16}$ " ,  $\frac{3}{8}$ " ,  $\frac{1}{2}$ "  
Drill Bits



Torque Wrench



Socket Wrench



$\frac{3}{4}$ " Socket



$\frac{5}{8}$ " Socket  
For Concrete Mounting Applications Only



CorrosionX Grease  
(Provided)

### Things to Know Before You Get Started

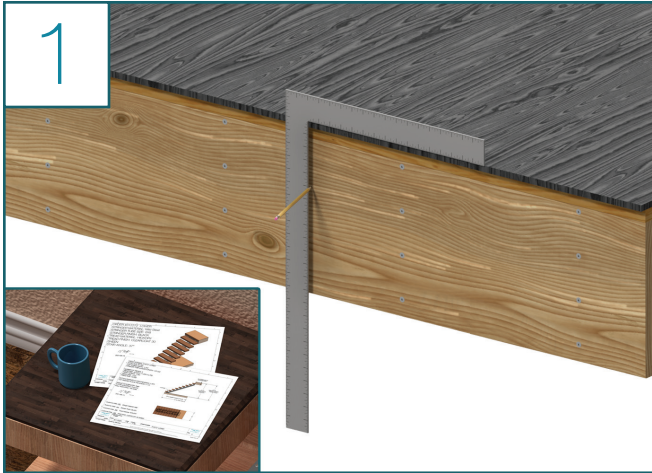
- Read over the provided material prior to the start of your installation



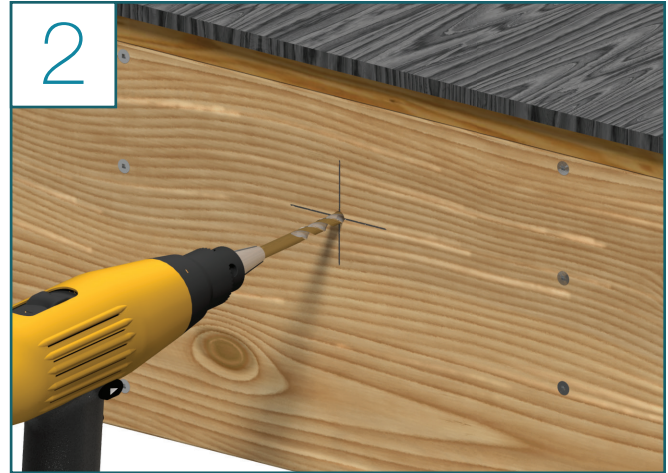
**YouTube**

Visit our YouTube channel to watch helpful installation videos  
[youtube.com/viewrail](https://youtube.com/viewrail)

## Exterior Flight Installation Steps



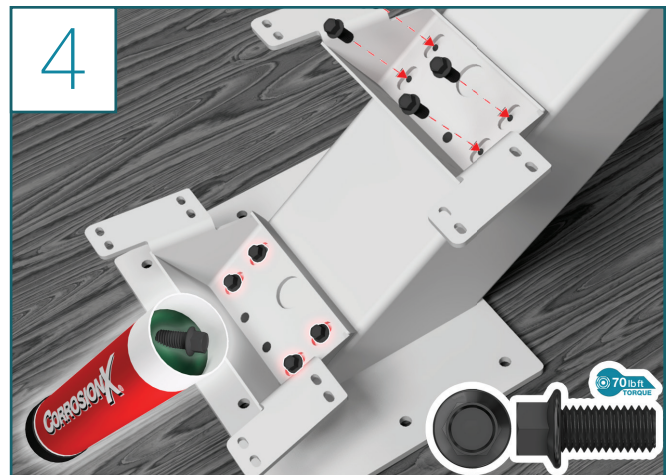
- Use the provided drawing(s) to mark the header plate dimensions
- At this point, mark a predrill location for the slotted hole in your header plate



- Predrill with a  $\frac{3}{8}$ " drill bit

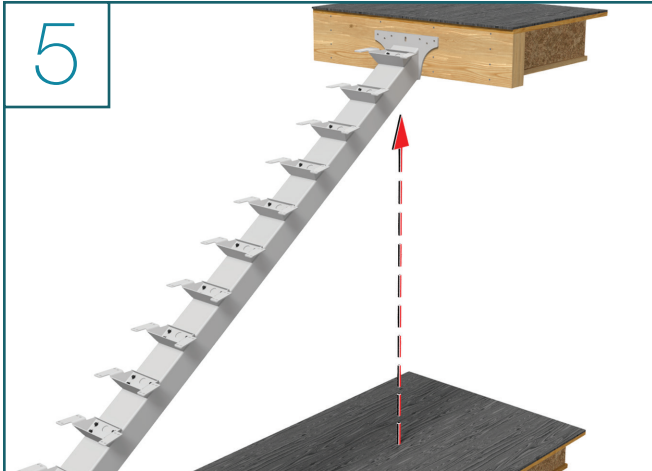


- Place all tread brackets on the stringer
- Insert locator pins to hold the tread brackets in place

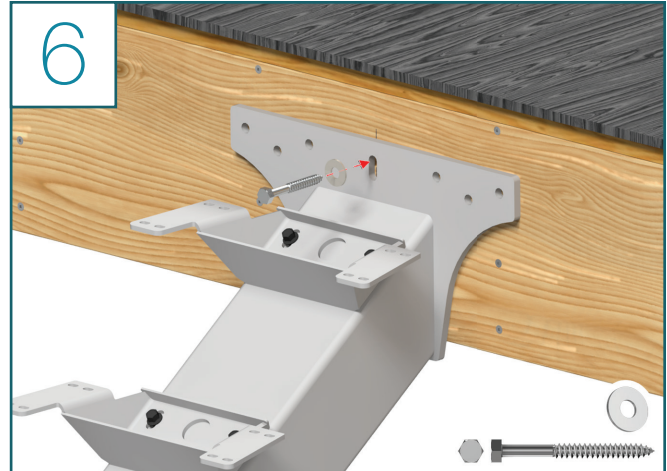


- Dip the threads of the  $\frac{1}{2}$ " x 1" flange bolts into the supplied CorrosionX™ grease
- Thread the flange bolts through the tread bracket and into the stringer in the marked order, so they are finger tight
- Torque to 70 lb-ft

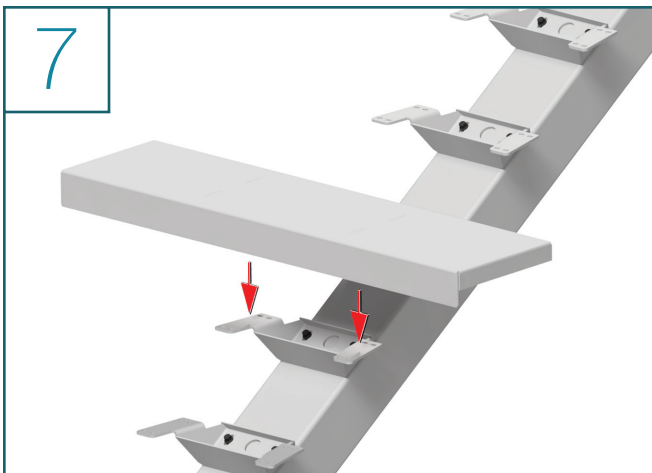
### Exterior Flight Installation Steps (Continued)



- Lift the stringer into place, lining up the hole
- We recommend using either a pulley system or a Come Along Winch and brace material to hold the stringer in place while fastening



- Fasten the 1/2" x 3 1/2" Hex Lag through the middle slotted hole in the header plate to hold the stringer in place

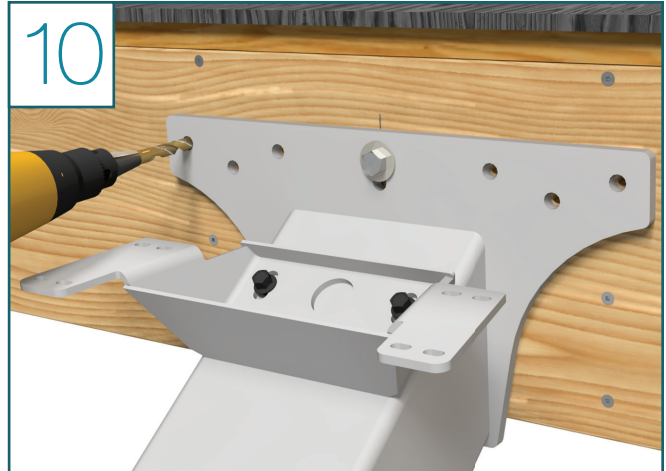
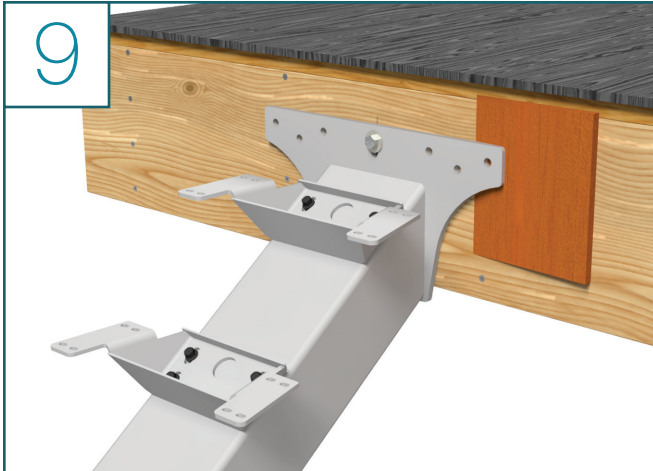


- Place a single tread on to one of the tread brackets about half-way up the stringer
- Secure the tread with the provided hardware - Hardware will vary based on the types of treads purchased



- Ensure the tread is level on the tread bracket both front to back and left to right

Exterior Flight Installation Steps (Continued)



- If not level left to right, shim the header plate to adjust
- If not level front to back, shim the footer plate to adjust
- Cut the excess shim away

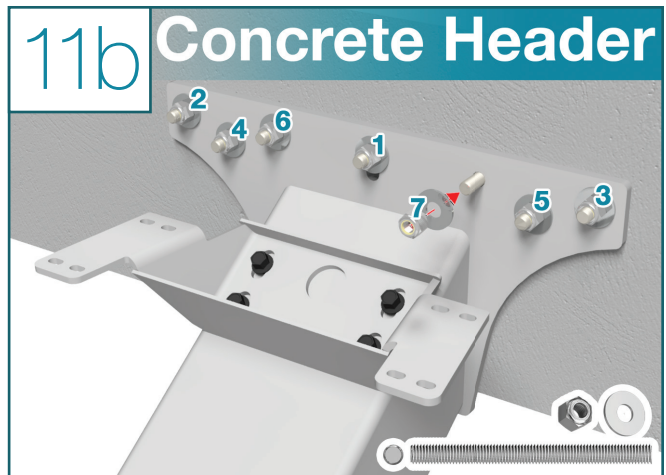
- At this point you can predrill all your header plate holes

**Through Bolt**

- Predrill utilizing a 1/2" drill bit

**Lag Bolt**

- Predrill utilizing a 3/8" drill bit



**Upper Stringer Header Mount (2 mounting styles)**

**Lag Bolt**

- Thread the 1/2" x 5" head lags into place

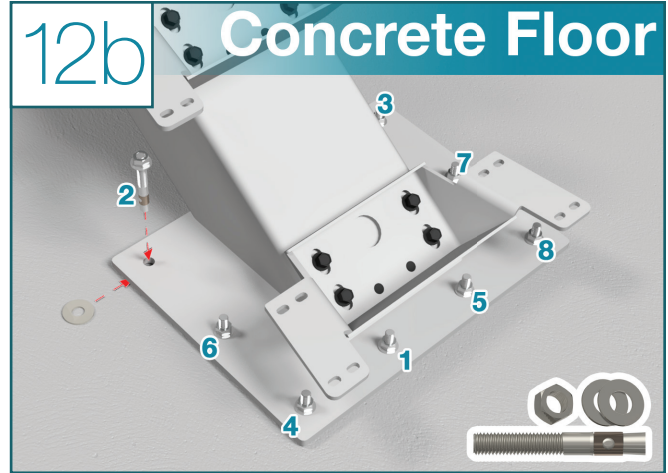
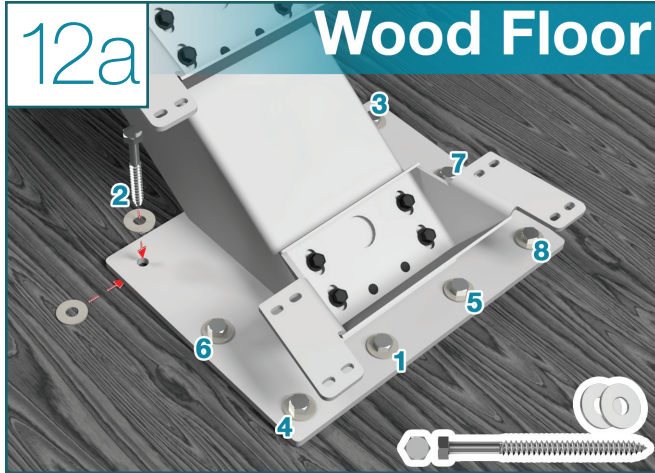
**Through Bolt**

- Thread the 1/2" x 8" hex head bolts into place, so they are finger tight
- Torque to 70 lb-ft

**Upper Stringer Header Mount**

- Refer to the recommendation of the brand of epoxy you are using and predrill the correct sized holes for these 1/2" threaded studs
- Apply concrete epoxy in to the holes
- Insert the threaded studs into each hole
- Tighten to the manufacture's specs of the fasteners being use

Exterior Flight Installation Steps (Continued)

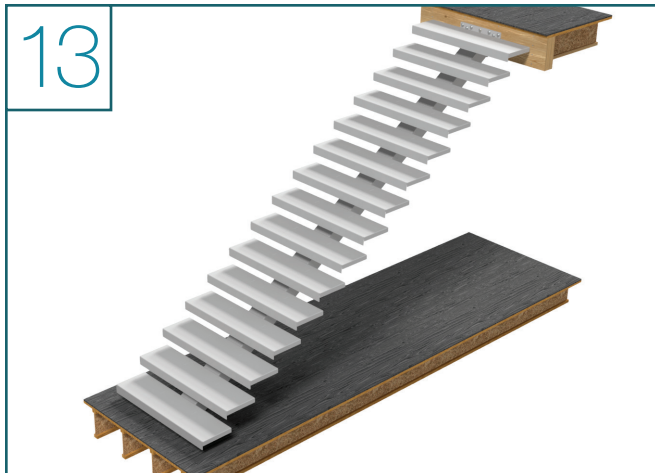


**Lower Stringer Floor Mount**

- Predrill your footer plate holes with a 3/8" drill bit
- Thread the 1/2" x 5" lags through the first washer, through the footer, through the second washer and into the wooden mounting materials
- The washers under the foot plate will help water draining

**Lower Stringer Floor Mount**

- Drill 1/2" holes for the concrete wedge anchors
- Thread the wedge anchor through the first washer, through the footer, through the second washer and into the wooden mounting materials
- The washers under the foot plate will help water draining
- Tighten to the manufacture's specs of the fasteners being use



**Congratulations!**  
You're done with this section.

We'd love to see your work! Snap a few pics with your phone and send them to [pictures@viewrail.com](mailto:pictures@viewrail.com). Thanks for choosing Viewrail. Enjoy your new installation!

- Install all treads. Refer to your specific tread installation instructions in your installation binder
- Secure the treads with the provided hardware - Hardware will vary based on the types of treads purchased
- Now it is time to move on to the railing installation