



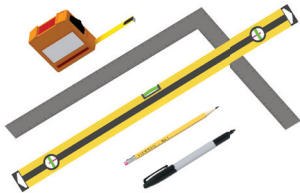
Exterior Flight Installation Guide

Look for this sticker
on hardware bags

FLIGHT



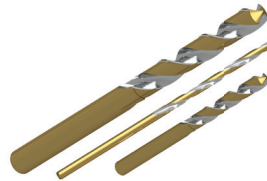
Tools Needed for this Installation



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*



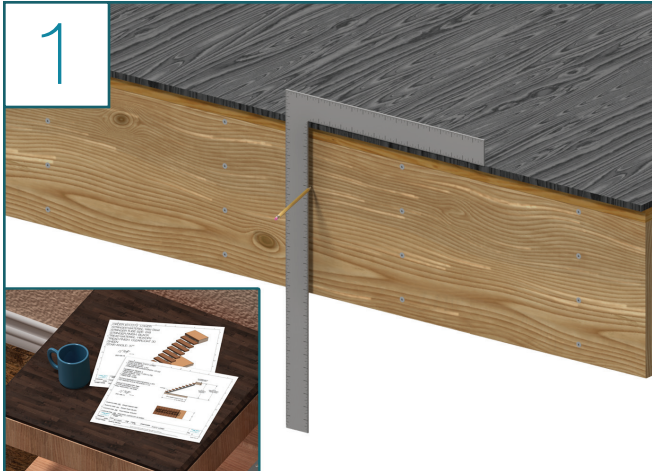
CorrosionX Grease
(Provided)

Things to Know Before You Get Started

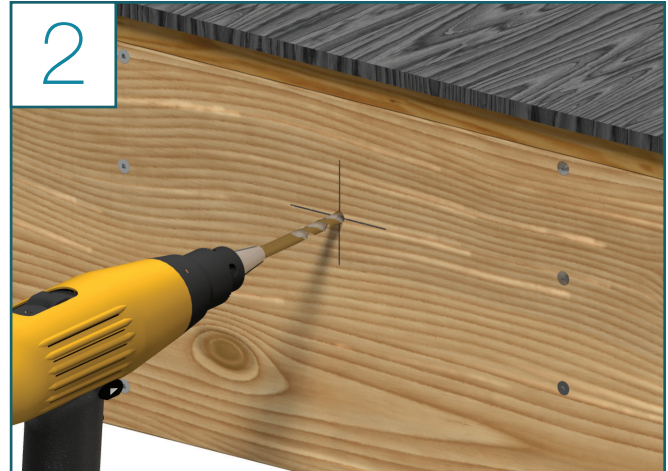
- Read over the provided material prior to the start of your installation



Exterior Flight Installation Steps



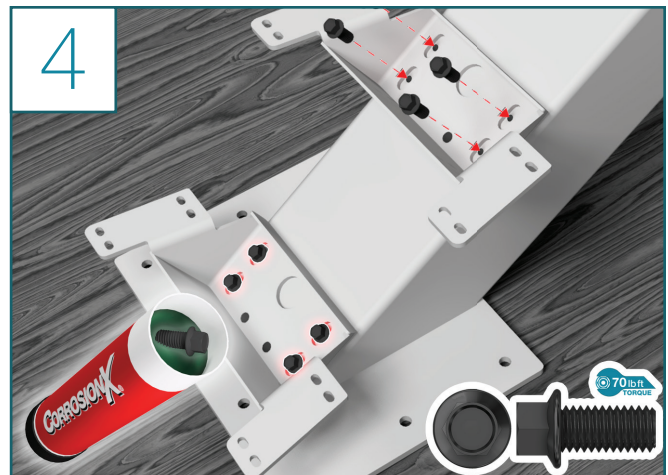
- Use the provided drawing(s) to mark the header plate dimensions
- At this point, mark a predrill location for the slotted hole in your header plate



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

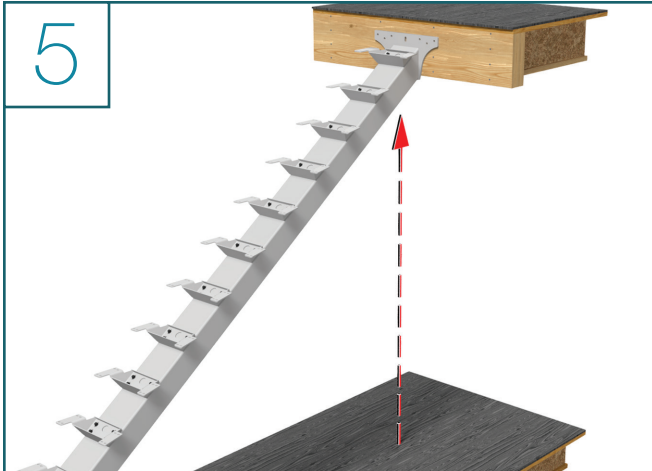


- Place all tread brackets on the stringer
- Insert locator pins to hold the tread brackets in place

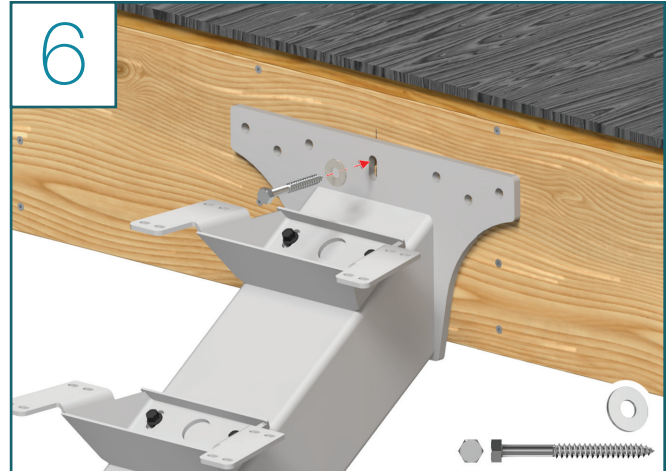


- Dip the threads of the $\frac{1}{2}$ " x 1" flange bolts into the supplied CorrosionX™ grease
- Thread the flange bolts through the tread bracket and into the stringer in the marked order, so they are finger tight
- Torque to 70 lb-ft

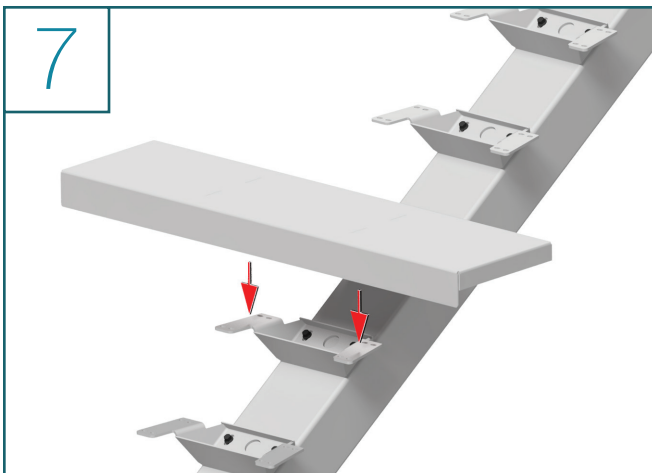
Exterior Flight Installation Steps (Continued)



- 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

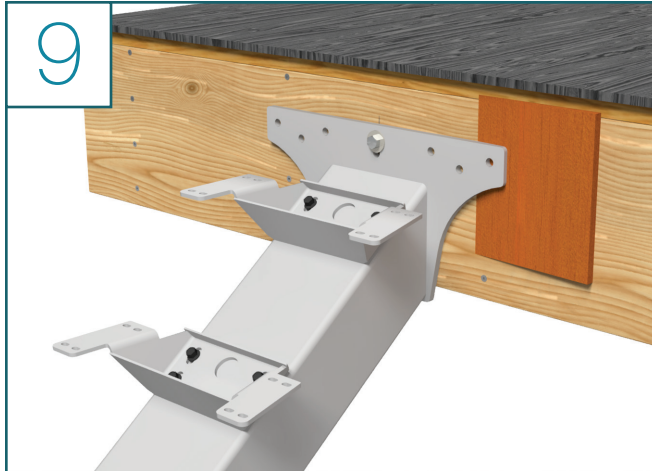


- Place a single tread on to one of the tread brackets about half-way up the stringer
- Secure the tread with the provided hardware - Hardware will vary based on the types of treads purchased

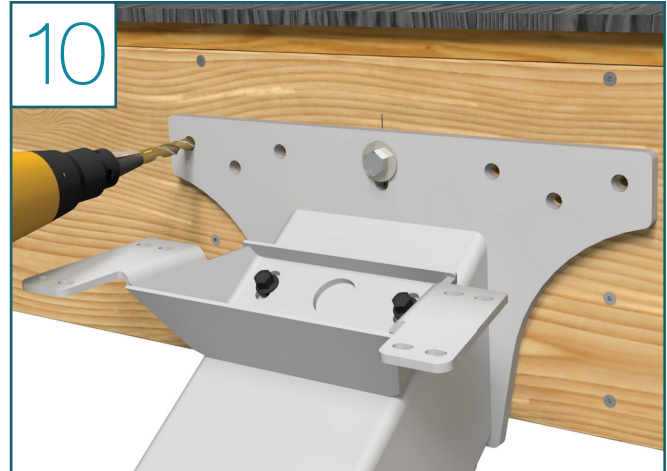


- Ensure the tread is level on the tread bracket both front to back and left to right

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



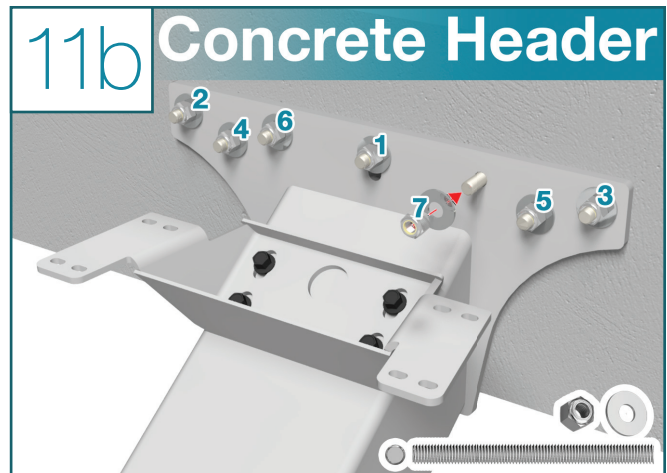
Upper Stringer Header Mount (2 mounting styles)

Lag Bolt

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

Through Bolt

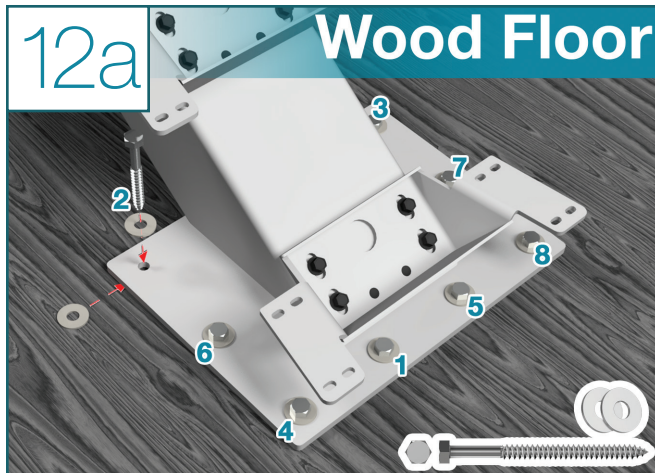
- Thread the 1/2" x 8" hex head bolts into place, so they are finger tight
- Torque to 70 lb-ft



Upper Stringer Header Mount

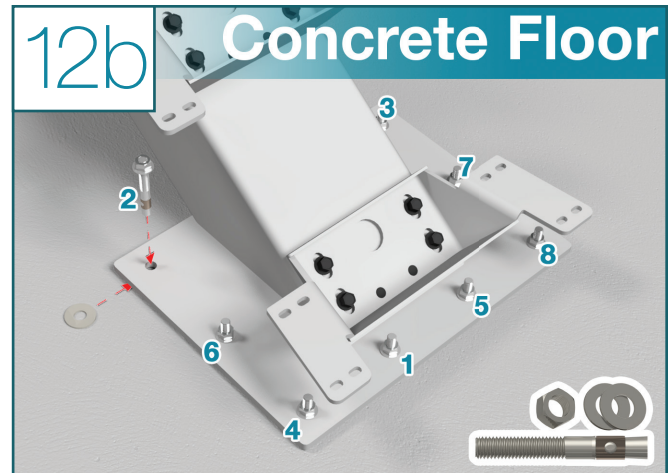
- Refer to the recommendation of the brand of epoxy you are using and predrill the correct sized holes for these 1/2" threaded studs
- Apply concrete epoxy in to the holes
- Insert the threaded studs into each hole
- Tighten to the manufacture's specs of the fasteners being use

Exterior Flight Installation Steps (Continued)



Lower Stringer Floor Mount

- Predrill your footer plate holes with a $\frac{3}{8}$ " drill bit
- Thread the $\frac{1}{2}$ " 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



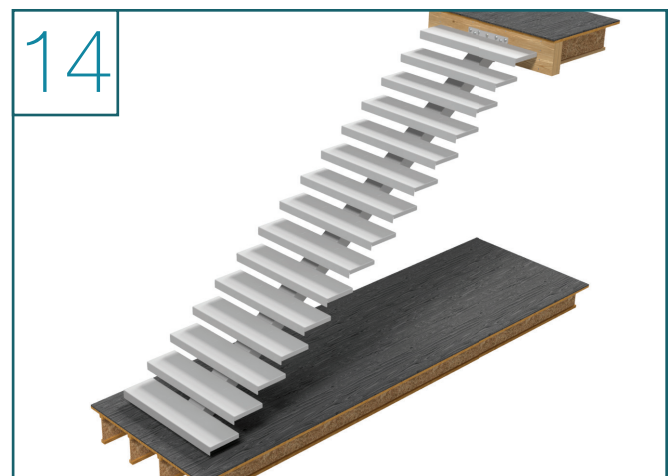
Lower Stringer Floor Mount

- Drill $\frac{1}{2}$ " 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



Powder Coated Stringer - Optional Step

- If necessary, mask off any potential over spray areas
- Use the provided touch-up paint to coat the stringer and footer plate hardware so that it matches the powder coat color of your stringer



- 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

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. Thanks for choosing Viewrail. Enjoy your new installation!