

Tools & Supplies Needed for this Installation

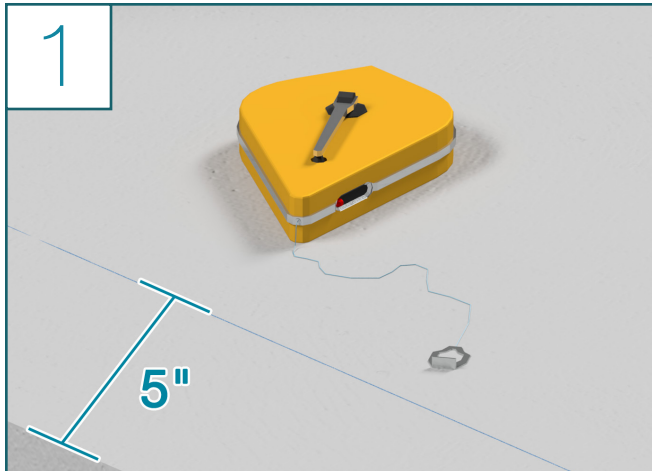
- Tape Measure
- Pencil or Marker
- Chalk Line
- Hammer Drill
- Impact Driver
- $\frac{3}{8}$ " Masonry Drill Bit (For Wedge Anchors)
- $\frac{1}{4}$ " Masonry Drill Bit (For Concrete Screws)
- Wire Brush
- Vacuum
- Portable Air Compressor (Optional)
- Hammer
- $\frac{5}{16}$ " Open End Wrench
- Torque Wrench
- $\frac{5}{16}$ " & $\frac{3}{8}$ " Sockets
- Post Level (Provided)
- Angle Grinder
- Metal Cutoff Disk(s)
- Silicone (Optional)

Things to Know Before You Get Started

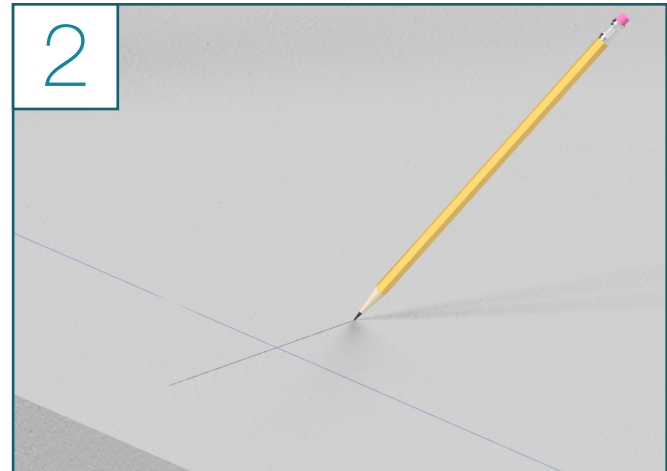
- Read over the provided material prior to the start of your installation
- This project requires a minimum of two people
- Viewrail Glass systems and fittings are designed to have a 1" gap between panels of glass



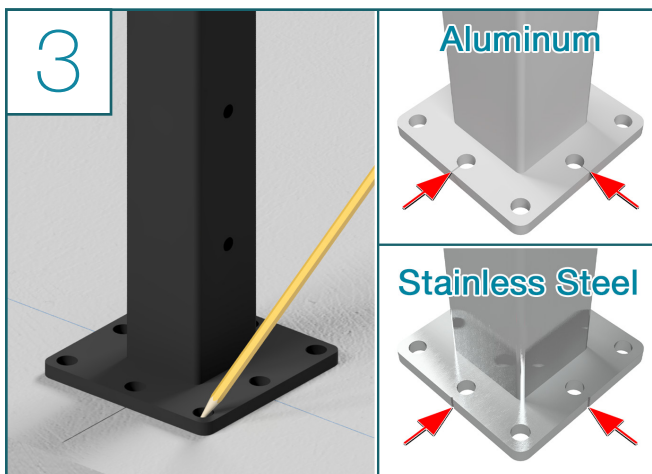
Concrete Surface Mounted Ascend Talon Installation Steps



- Using your provided project layout identify the run you want to do first
- Measure and snap a chalk line to mark the run. Keep in mind that the fasteners for the talon must be, at minimum, 3" from any concrete edge
- That would put your chalk line about 5" from the edge

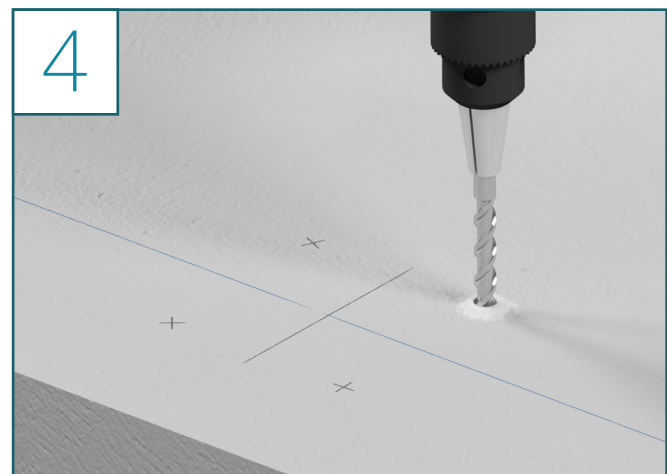


Using the layout provided and a tape measure, mark the center of where you want to mount each talon



- Take the talon and center it on your chalk line
- If the foot plate has marks, these can be used to orient the talon properly
- Mark the hole placements
- Occupy the four corner holes, or the four center holes
- Make sure every fastener location is, at minimum, 3" from the edge of the concrete
- Set the talon aside

Note: It is possible with our textured powder coats, that the mark lines on the Aluminum feet may be hard to see.

**Concrete Wedge Anchors**

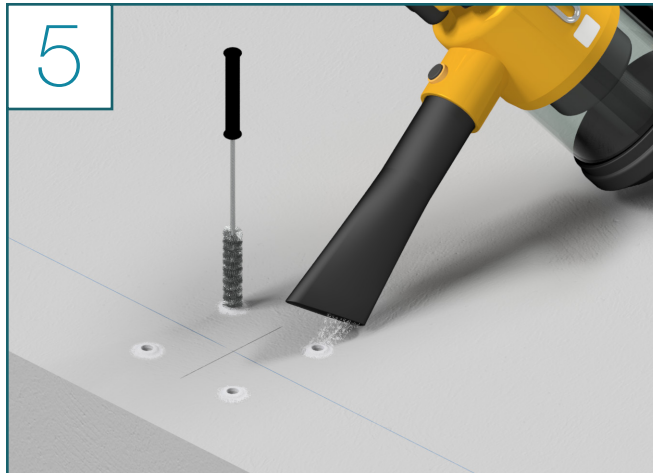
- Using a hammer drill and a $\frac{3}{8}$ " masonry bit, drill each marked location $3\frac{3}{4}$ " deep into the concrete

Concrete Screws (e.g. Tapcons)

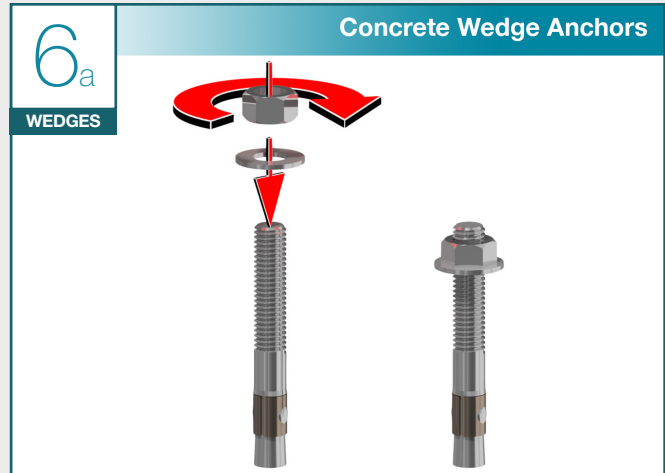
- Using a hammer drill and a $\frac{1}{4}$ " masonry bit, drill each marked location $3\frac{1}{2}$ " deep into the concrete

Helpful Tip: Slightly bevel the entry to the hole with the bit

Concrete Surface Mounted Ascend Talon Installation Steps (Continued)

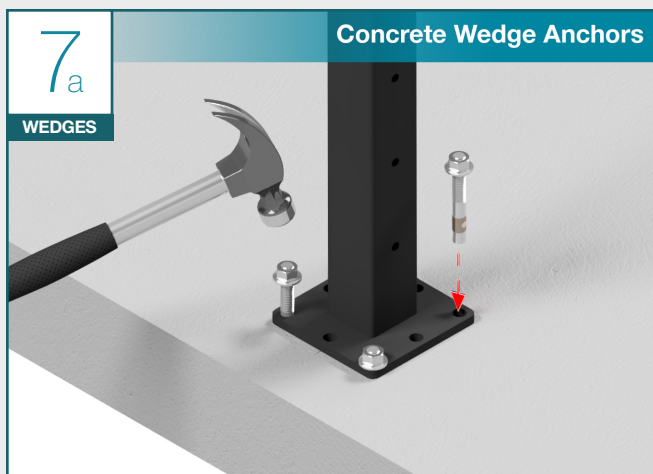


- Using a shop vac or compressed air, clean out each of the mounting holes - Not doing so will cause the anchor or concrete screw to not fully seat in the hole and you will not have a sturdy connection
- For best results, use a $\frac{3}{8}$ " wire brush as well to ensure you have loosened up any concrete dust from the walls of the hole

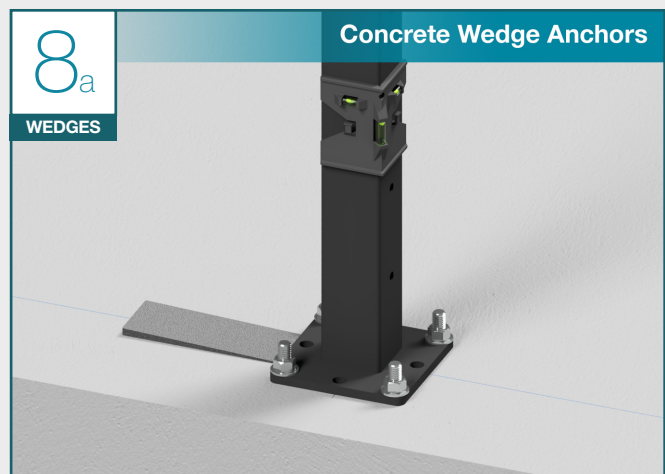


THE NEXT 6 STEPS ARE IF YOU ARE USING CONCRETE WEDGE ANCHORS

- Place the washer on the wedge anchor and then tighten the nut to cover the first threads. A small portion of non-threaded metal should be above the nut
- At least $1\frac{3}{4}$ " of the concrete wedge anchor should be in the concrete

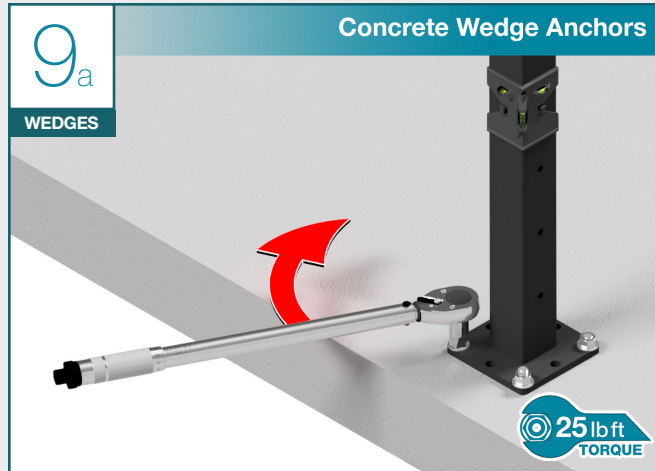


- Place the wedge anchor into the pre-drilled hole
- Using a hammer, hit the wedge anchor into the hole until the washer is flush against the foot plate. It will be a snug fit
- Repeat this for every wedge anchor

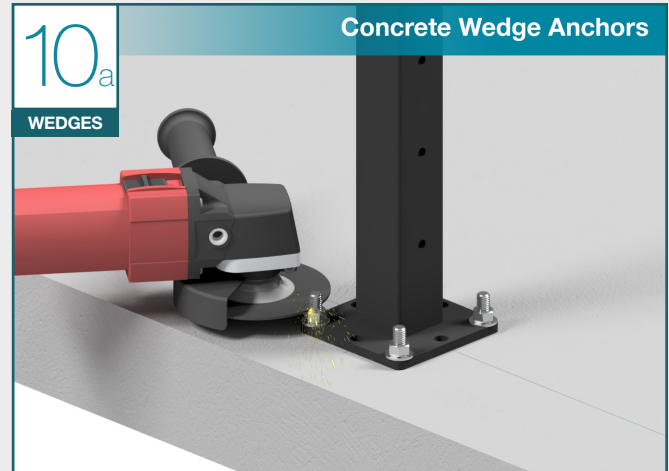


- Using a post level, tighten every wedge anchor and shim as needed
- Using an open ended wrench, tighten the nuts until they are very snug
- Loosen or tighten the wedge anchor nuts to help level the Ascend Talon

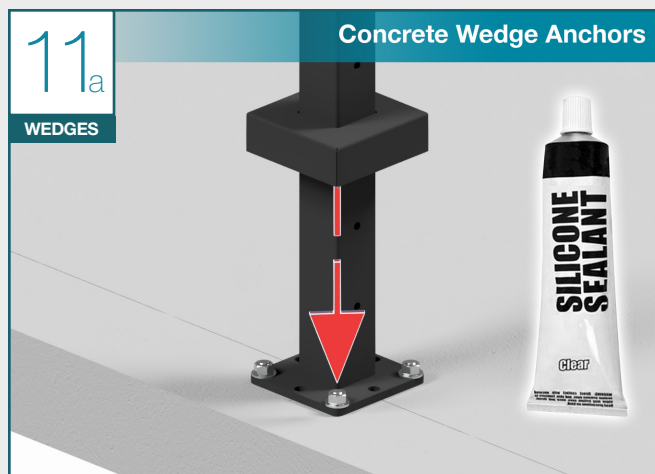
Concrete Surface Mounted Ascend Talon Installation Steps (Continued)



- Once the Ascend Talon is level, use a torque wrench, torque the nut to 25 lb-ft
- Recheck for plumb



- If too much of the wedge anchor is raised, use a cutting wheel or a hacksaw to cut off the excess



- Slide the foot cover into place

Note: You can use silicone to secure the foot cover to prevent any movement.

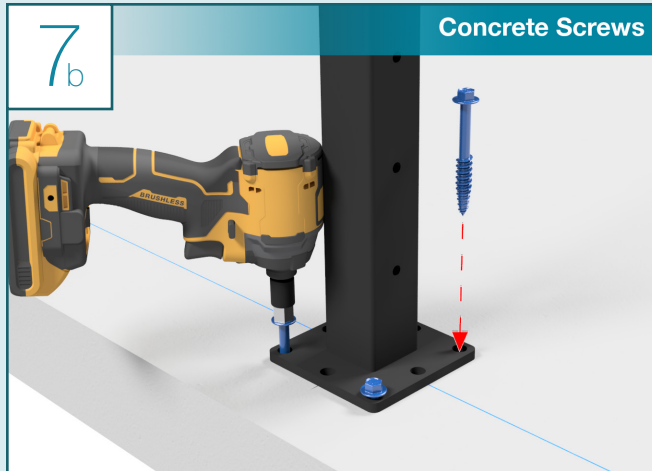


IF YOU USED CONCRETE WEDGE ANCHORS, YOU CAN SKIP TO PAGE 6

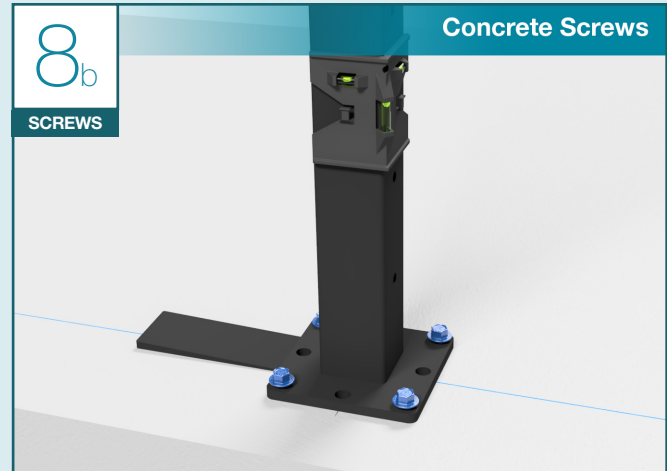


THE NEXT 5 STEPS ARE IF YOU ARE USING CONCRETE SCREWS

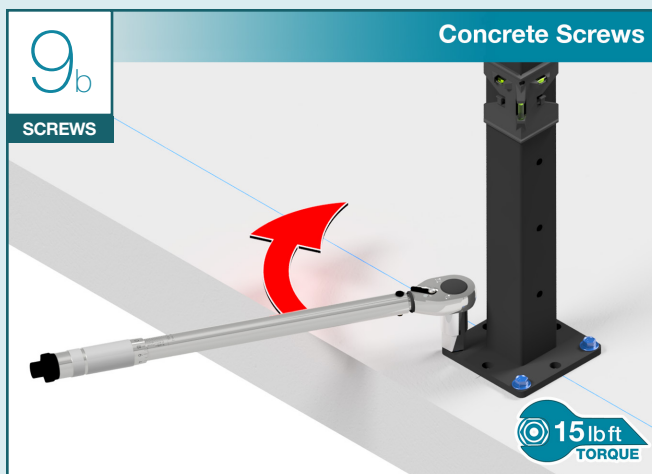
Concrete Surface Mounted Ascend Talon Installation Steps (Continued)



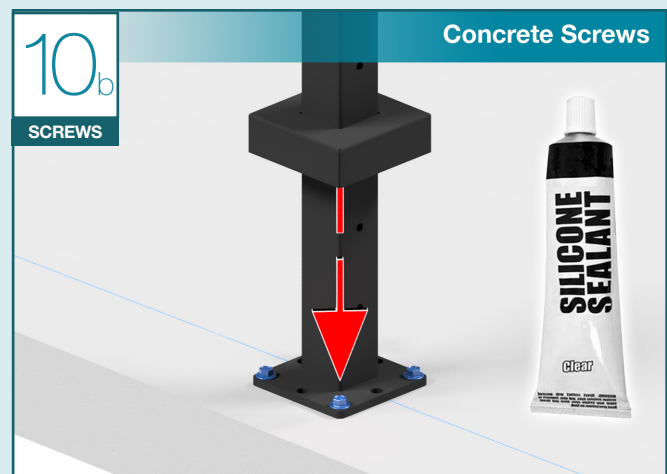
- Place the concrete screws into the pre-drilled holes
- Use an impact driver to drive the concrete screws down until snug, over tightening can lead to spin out



- Using a post level, tighten every concrete screw and shim as needed
- Using an open ended wrench, tighten the until they are very snug
- Loosen or tighten the concrete screws to help level the Ascend Talon



- Once the Ascend Talon is level, use a torque wrench and secure the concrete screws to 15 lb-ft
- Recheck for plumb

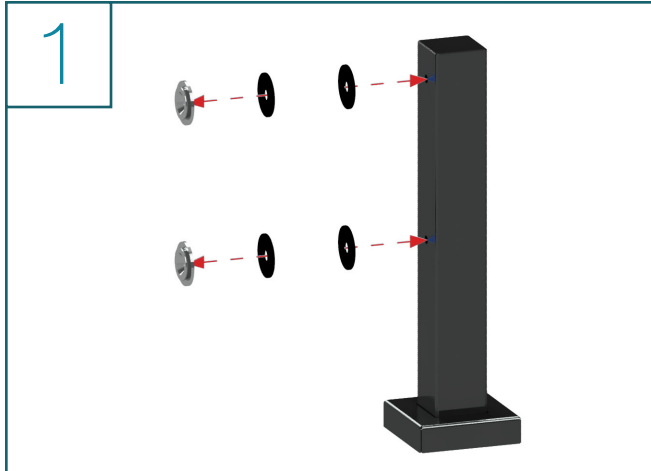


- Slide the foot cover into place

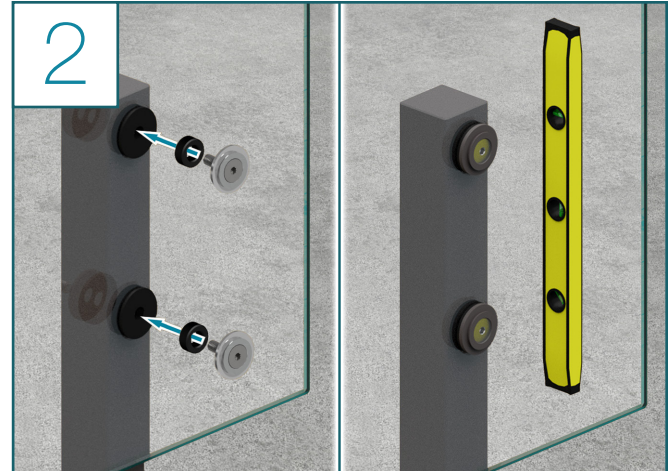
Note: You can use silicone to secure the foot cover to prevent any movement.

NOW THAT YOUR ASCEND TALONS HAVE ALL BEEN MOUNTED YOU CAN FINISH THE INSTALL ON THE NEXT PAGE

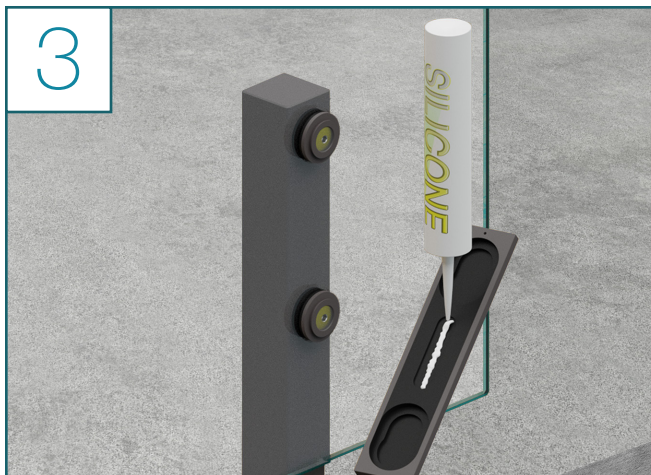
Glass Ascend Talon Hardware Installation Steps



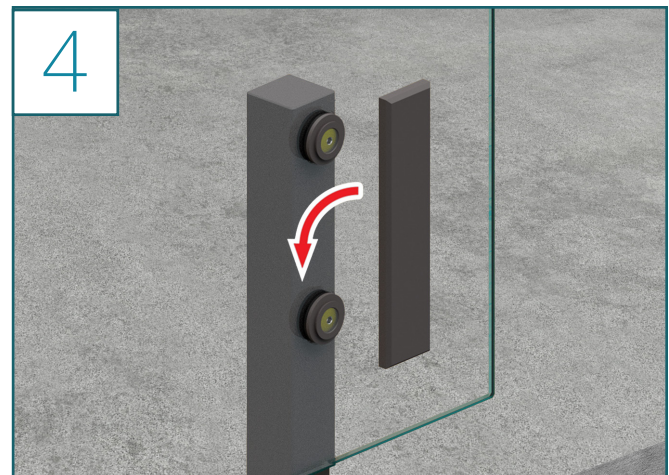
- Identify and prepare your glass panel
- Attach the first gasket around the flow drilled hole on the talon, and then attached the second gasket to the dovetail washer itself
- Doing this will ensure that the gaskets remain in the correct position during installation of the glass panel



- Move the panel into position, lining up the holes in the glass with the predrilled holes on the talon
- Prepare the mounting assembly by running the $\frac{3}{8}$ " x $1\frac{1}{2}$ " flat head bolts through the dovetail washer & the nylon bushing
- Using a $\frac{7}{32}$ " Allen wrench, fasten the mounting assembly through the panel to the talon
- Make sure the glass is level and tighten the bolts firmly



- Apply silicone into the middle of the Ascend Talon cover, as shown, to help keep it in place



- Put the ascend talon cover against the glass
- Slide the cover straight down to lock the cover in place

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!