

Tools & Supplies Needed for this Installation

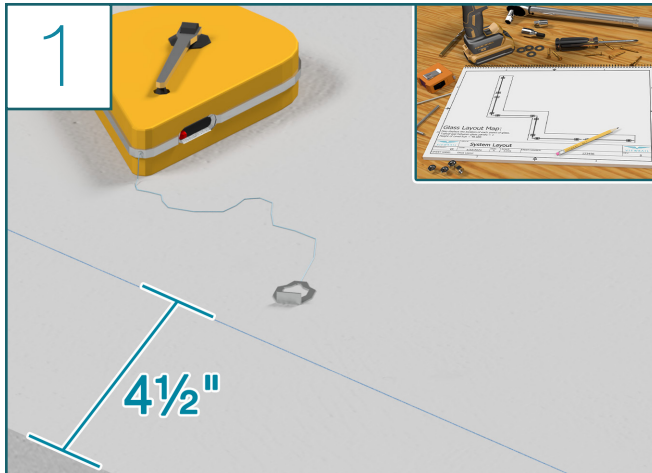
- Tape Measure
- Pencil or Marker
- Chalk Line
- Spirit Level
- Hammer Drill & Impact Driver
- $\frac{3}{16}$ " Allen Wrench
- $\frac{3}{8}$ " Masonry Drill Bit *(For Wedge Anchors)*
- $\frac{1}{4}$ " Masonry Drill Bit *(For Concrete Screws)*
- Wire Brush
- Vacuum
- Portable Air Compressor *(Optional)*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

Things to Know Before You Get Started

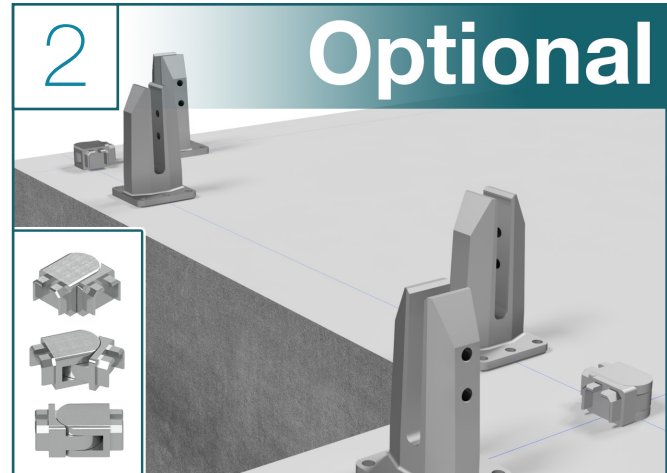
- Read over the provided material prior to the start of your installation
- This project requires a minimum of two people
- Viewrail Glass systems and fittings are designed to have a 1" gap between panels of glass



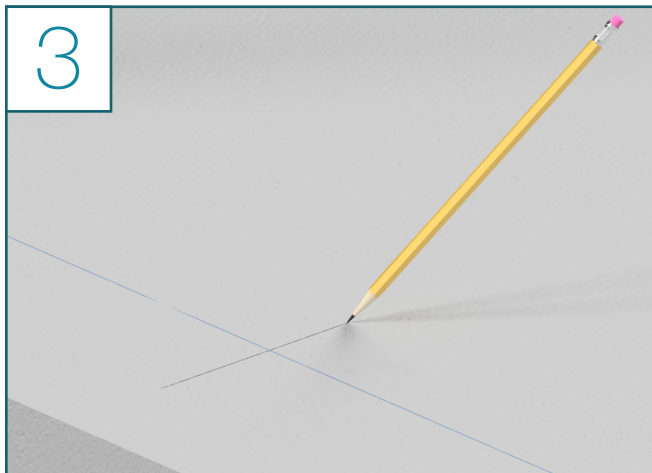
Concrete Surface Mounted Talon Installation Steps



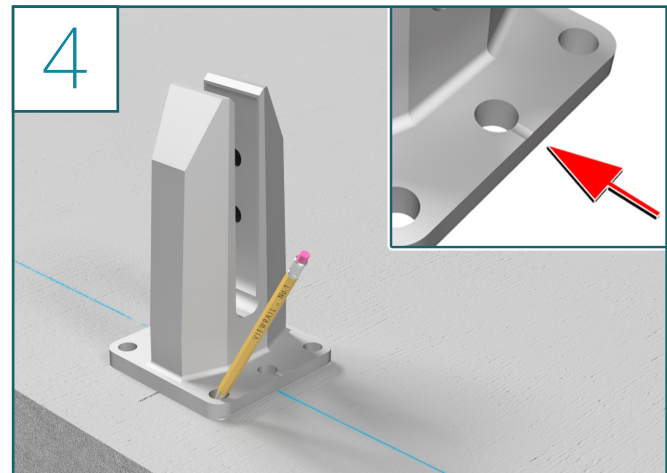
- Using your provided project layout identify the run you want to do first
- Measure and snap a chalk line to mark the run - Keep in mind that the fasteners for the talon must be, at minimum, 3" from any concrete edge
- That would put your chalk line no closer than 4 1/2" from the edge



- If applicable, when identifying your Surface Talon Placements, corners should be double checked
- For any 90° or 45° corners, it will be useful to:
 - 1) Set your talons in place
 - 2) Refer to your layout & mark where each panel will end
 - 3) Use the 90° or 45° Glass Cap Couplers to make sure there is enough space in between panels
- If necessary adjust talon placement, ensuring to adjust the entire affected run

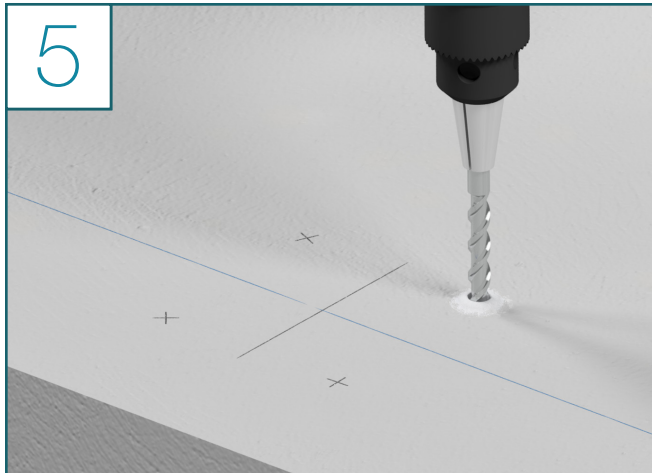


- Using the layout provided and a tape measure, mark the center of where you want to mount each talon



- Take the talon and center it on your chalk line
- The foot plate has marks that are used to orient the talon properly along the chalk line
- Mark the hole placements
- There are 6 holes on the foot of the talon, a minimum of 4 must be populated, 2 on each side
- Make sure every fastener location is, at minimum, 3" from the edge of the concrete
- Set the talon aside

Concrete Surface Mounted Talon Installation Steps (Continued)



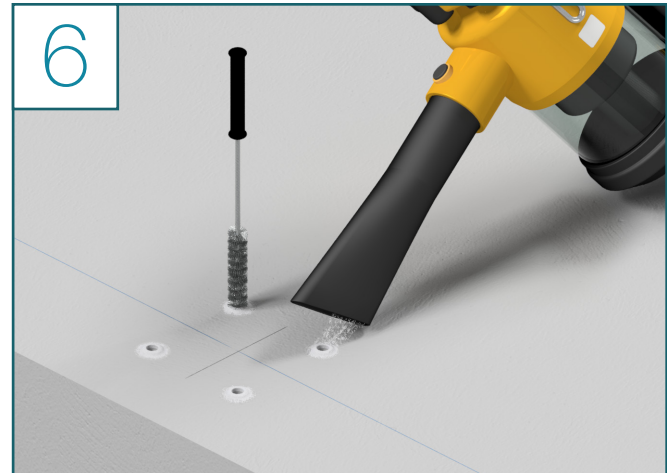
Concrete Wedge Anchors

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

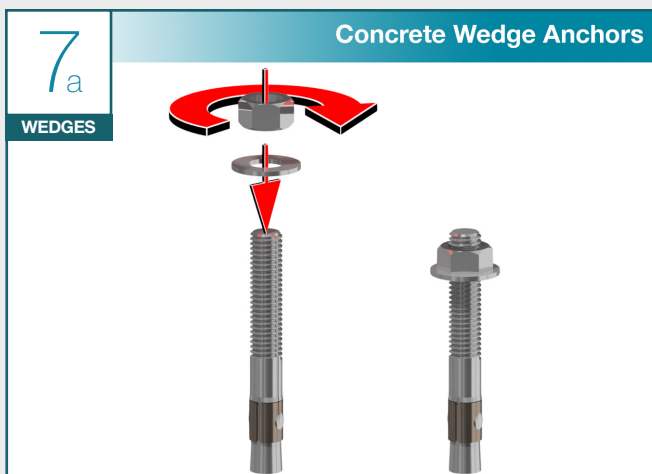
Concrete Screws (e.g. Tapcons)

- 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

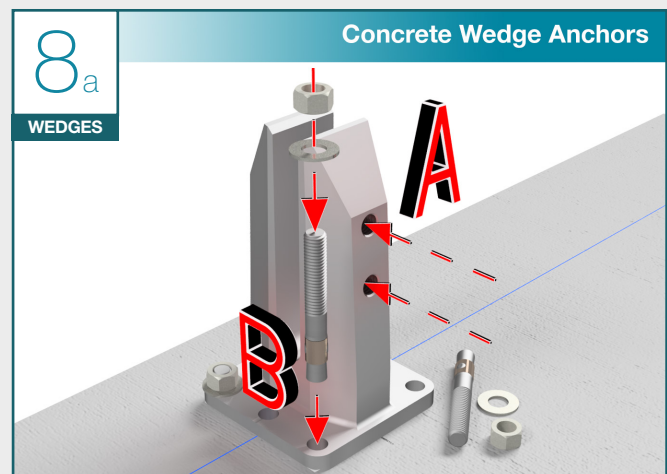


- Using a shop vac or compressed air, clean out each of the mounting holes - Not doing so will cause the anchor or concrete screw to not fully seat in the hole and you will not have a sturdy connection
- For best results, use a $\frac{3}{8}$ " wire brush as well to ensure you have loosened up any concrete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



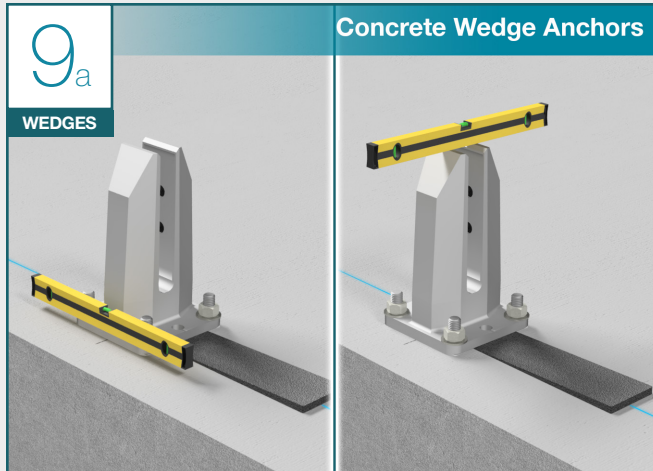
THE NEXT 5 STEPS ARE IF YOU ARE USING CONCRETE WEDGE ANCHORS

- Place the washer on the wedge anchor and then tighten the nut to cover the first few 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

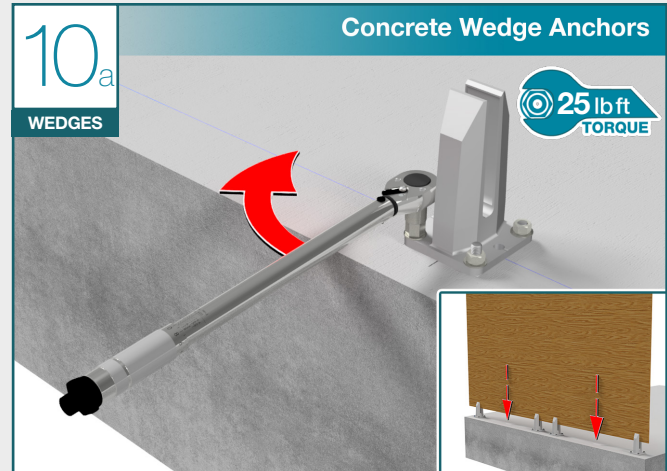


- It is easiest to install this system when the bolts holes (A) used to adjust the panel are facing an easily accessible location - Set your talons accordingly
- Place the wedge anchor (B) into the pre-drilled hole
- Using a hammer, drive the wedge anchor into the hole until the washer is flush against the foot plate - It will be a snug fit
- Repeat this for every wedge anchor

Concrete Surface Mounted Talon Installation Steps (Continued)

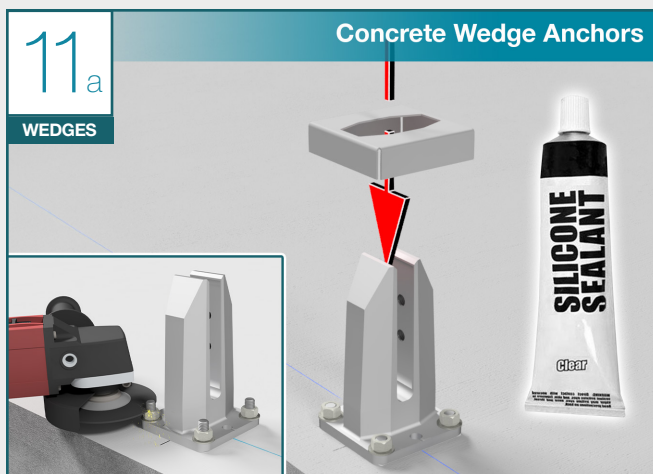


- Use an open ended wrench and a spirit level, tighten every wedge anchor until very snug and shim as needed
- Loosen or tighten the wedge anchor nuts to help level the talon



- Once the talon is level, use a torque wrench, torque the nut to 25 lb-ft
- Recheck for plum

Note: It is helpful to use a piece of straight 3/4" plywood to drop into two consecutive talons as a test to ensure they are in line with each other. When dropping in the plywood, there should be no pressure or significant resistance. If there is, it is likely the talons are not square to each other and will create pressure on your glass panel



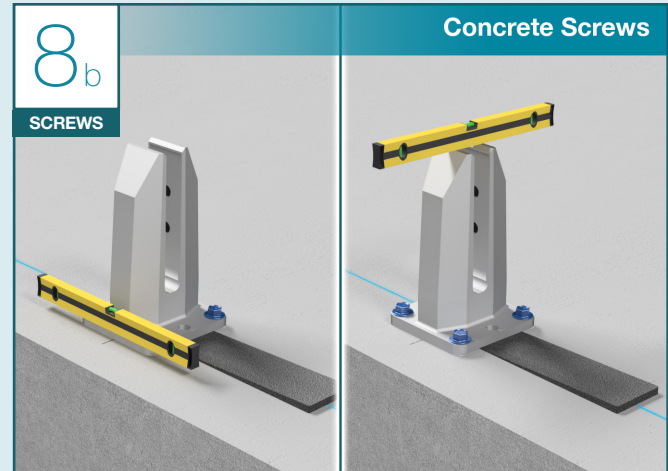
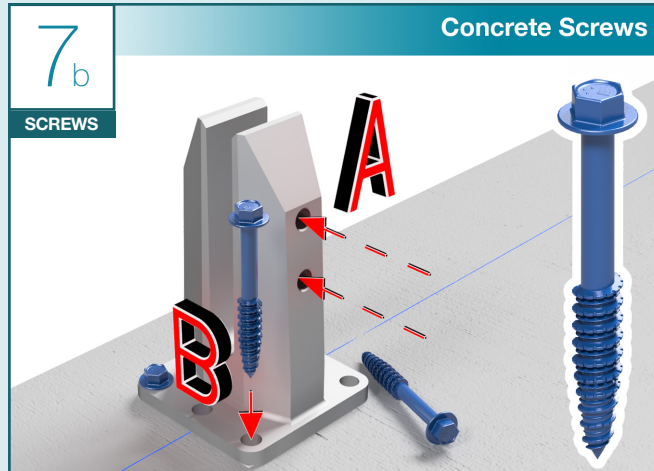
- If too much of the wedge anchor is raised, use a cutting wheel or a hacksaw to cut off the excess
- Slide the foot cover into place
- Repeat for all talons in the run

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

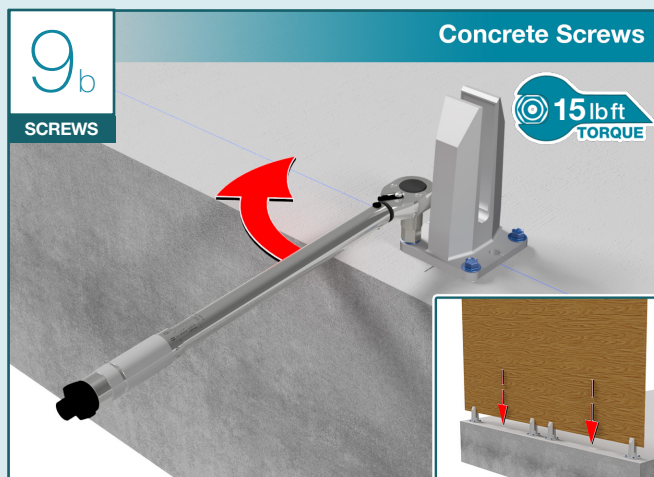
Concrete Surface Mounted Talon Installation Steps (Continued)



THE NEXT 4 STEPS ARE IF YOU ARE USING CONCRETE SCREWS

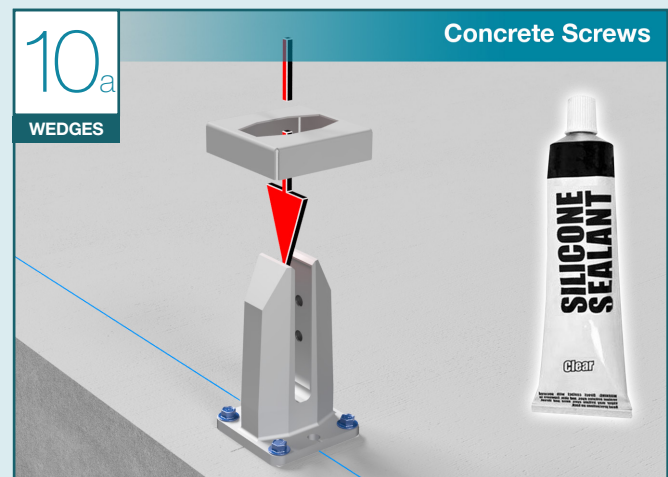
- It is easiest to install this system when the bolts holes (A) used to adjust the panel are facing an easily accessible location - Set your talons accordingly
- Place the concrete screws (B) into the pre-drilled holes
- Use an impact driver to drive the concrete screws down until snug, over tightening can lead to spin out

- Use an open ended wrench and a spirit level, tighten every concrete screw until very snug & shim as needed
- Loosen or tighten the screws to help level the talon



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

Note: It is helpful to use a piece of straight 3/4" plywood to drop into two consecutive talons as a test to ensure they are in line with each other. When dropping in the plywood, there should be no pressure or significant resistance. If there is, it is likely the talons are not square to each other and will create pressure on your glass panel

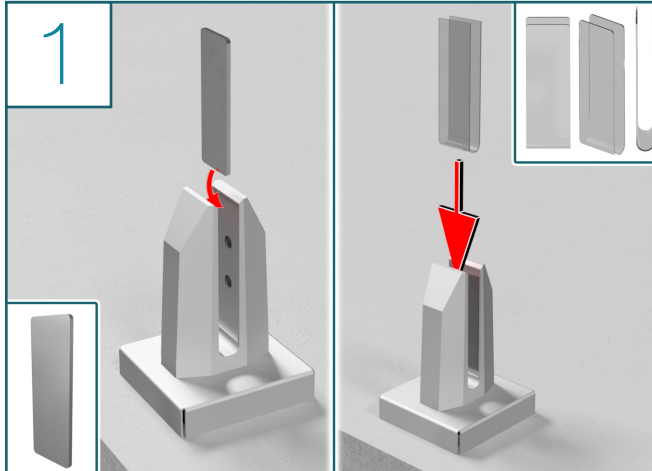


- Slide the foot cover into place
- Repeat for all talons in the run

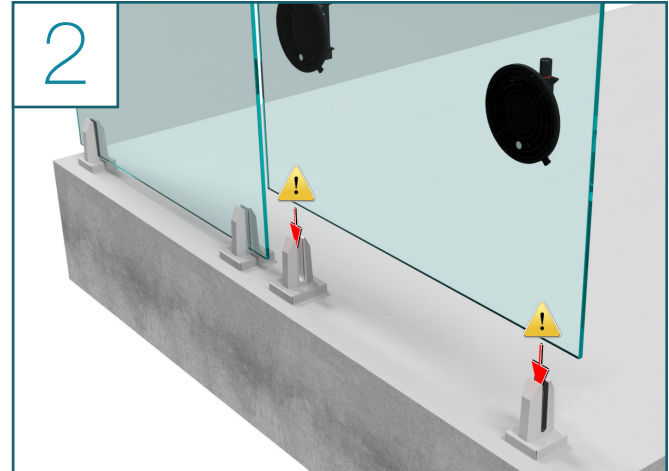
Note: You can use silicone to secure the foot cover to prevent any movement.

NOW THAT THE TALONS IN THIS RUN OF RAILING HAVE BEEN MOUNTED YOU CAN FINISH THE INSTALLATION ON THE NEXT PAGE

Glass Talon Hardware & Panel Installation Steps



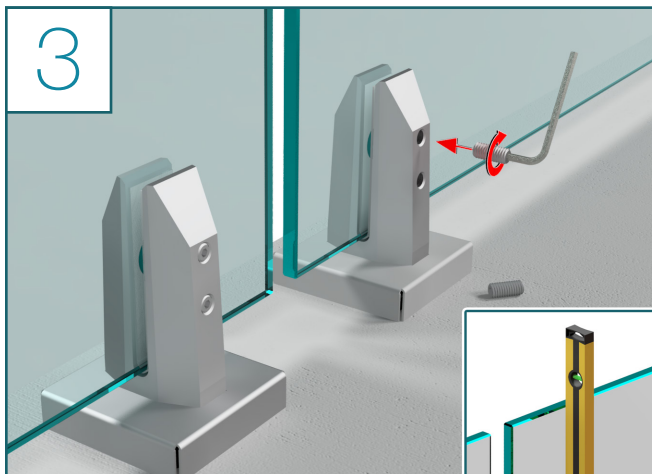
- Place the steel pressure plate into each talon
- Slide the Polycarbonate Gasket into place as shown



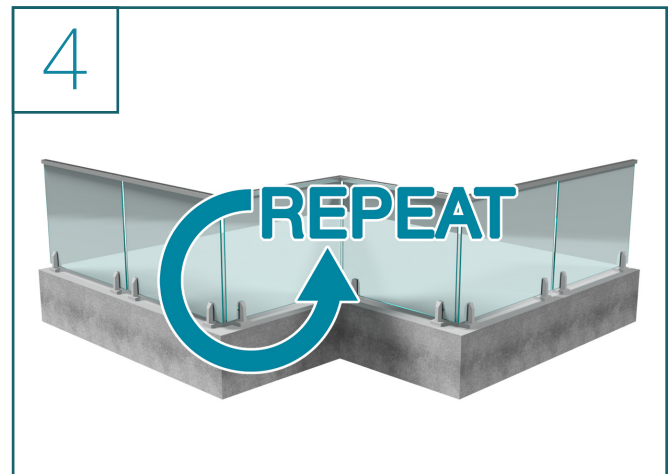
- Refer to your engineering drawings to locate the panel to install
- Using the glass suction cups, grab and move the panel into place
- Remember to avoid hitting edges or corners and to drop the glass straight down into the talons



Caution: It is very important to keep the glass from hitting sharp edges or corners. Make sure you are setting the glass straight down into the talon grip.



- With the glass panel in place, use the $\frac{3}{16}$ " Allen wrench to tighten the two set screws in the talon
- You can adjust the level of the glass by alternately loosening or tightening the screws
- Use a level towards the top of the panel to help adjust your level



- Repeat all steps for any remaining runs of glass railing

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!