



GLASS EXPANSE

# Slide-and-Stack Glass Doors

**Installation Instructions**

Version 1.0

[glassexpanse.com](http://glassexpanse.com)

# WARNING

## Disclaimers:

In this manual you will find all the information you need to properly install your door. If you have any questions regarding the door system, installation, or care, please contact Glass Expanse directly at 254-534-9004

Your door has been assembled and inspected in the factory to insure that it meets order specifications and quality. All items have been packaged to prevent damage in transit. Please inspect all door components to insure they have arrived without damage.

All Glass Expanse doors are packaged and shipped with all components needed for assembly. Panels are factory glazed and all operational hardware (top/bottom track hinge blocks, handles, latches, locks, wheels, etc) are pre-installed. The glass surface is covered with protective tape that should only be removed once the installation has been completed.

\*We do not include sill pan, sealants, fasteners, shims or other parts needed to anchor and secure the door frame to the rough opening. Refer to materials page for suggestions.

\*\*A sill pan is recommended for all installations.

Regulations regarding the use of glazed doors, storefronts, partitions and windows vary from state to state. It is the sole responsibility of the building owner, engineer, architect, contractor, or independent installer to verify that the products ordered fulfill federal, state, and local codes and regulations.

Glass Expanse does not assume any responsibility or obligation for failure of the building owner, architect, contractor or installer to fulfill the necessary safety and building codes, laws and ordinances.

PLEASE READ THE COMPLETE INSTRUCTIONS BEFORE YOU START INSTALLATION. THE GLASS EXPANSE DOOR SYSTEM IS A UNIQUE OPERATIONAL SYSTEM THAT REQUIRES ATTENTION TO DETAIL AND PRECISION. FOLLOW EVERY STEP AND UNDER NO CIRCUMSTANCE CUT OR RE-SIZE ANY OF THE COMPONENTS. FAILURE TO COMPLY WILL RESULT IN MALFUNCTION AND OR DAMAGE TO PARTS RESULTING IN THE TERMINATION OF ANY WARRANTY, WRITTEN OR IMPLIED.

## **Before you begin installing your door!**

Please inspect door for any damage that might have happened during shipping. This damage MUST be notated and Glass Expanse must be notified PRIOR TO INSTALLATION of the door. Please provide photos of any damages PRIOR to installation.

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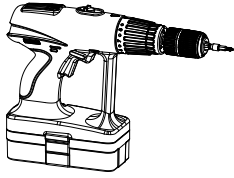
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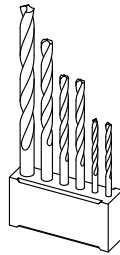
# Required Tool List



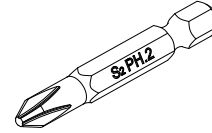
Second Person



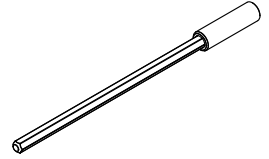
Cordless Drill with Hammer Function



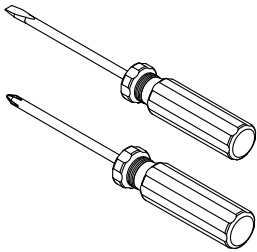
Concrete/Metal/Wood Drill Bit Set



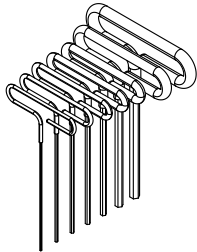
Drill Driver Set



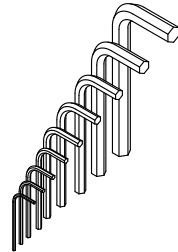
6" Extension Bit



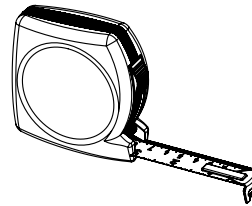
Screw Drivers - Phillips and Flat



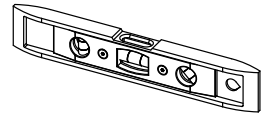
T-Bar Allen Wrench Set - Metric



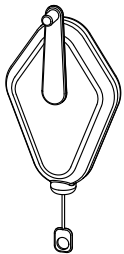
Standard Allen Wrench Set - Metric



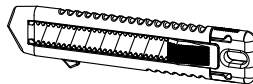
Tape Measure



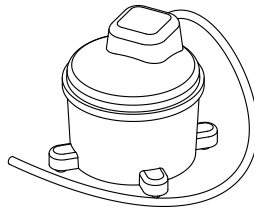
Torpedo Bubble Level



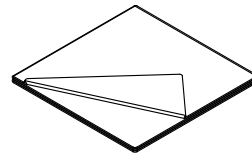
Chalk Line



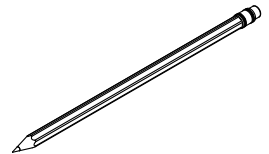
Utility Knife



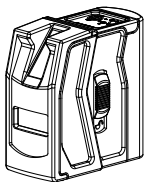
Vacuum



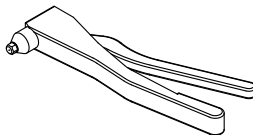
Cleaning Rag/Cloth



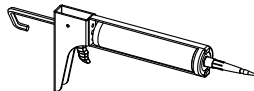
Pen/Pencil



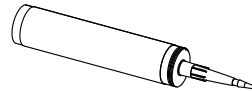
Laser Level



Pop Rivet Tool



Silicone Tube Gun



Color-Matched Silicone Sealant



Step Ladder

## Other Useful Tools

- Circular Saw
- SDS Hammer Drill
- Impact Driver
- Reciprocating Saw
- Grinder
- Miter Saw
- Extension Cords
- Mixing Bit
- Steel Hammer
- Knife
- Rags
- Spray Foam Gun
- Nail Bar
- Chisel Set
- Saw Horses
- Speed Square
- Sledge Hammer
- Scissors
- Metal Tin Snips
- Flat Metal Scraper
- Pliers - Regular & Needle Nose
- Crescent Wrench
- Glass Suction Cup
- Vacuum

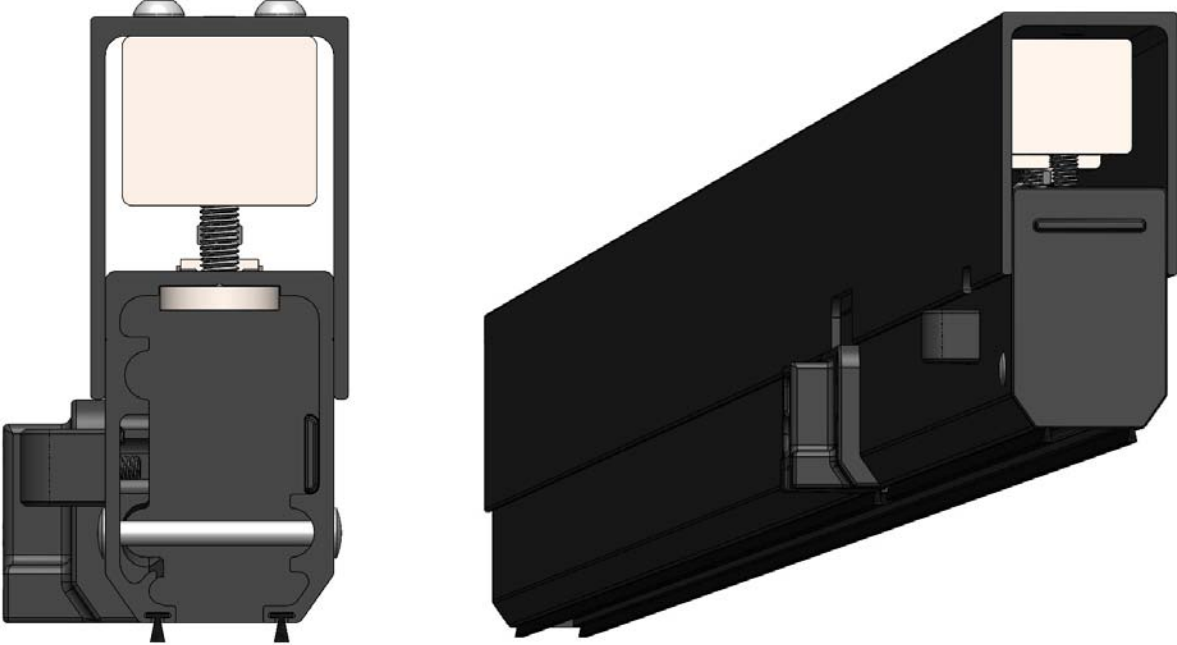
## Possibly Required Consumable Materials

- Self-Level Concrete
- Rapid-Set Concrete
- Tapered Shims
- Horseshoe Shims
- Lumber
- Plywood
- Flashing Tape
- Sill Pans
- Silicone Sealant
- Screws
- Nails
- Threadlocker
- Spray Foam and Foam Gun Cleaner
- Cleaning Kit: Glass Cleaner, Multipurpose Cleaner, Goo-Gone, Paper Towel

# Parts Identification

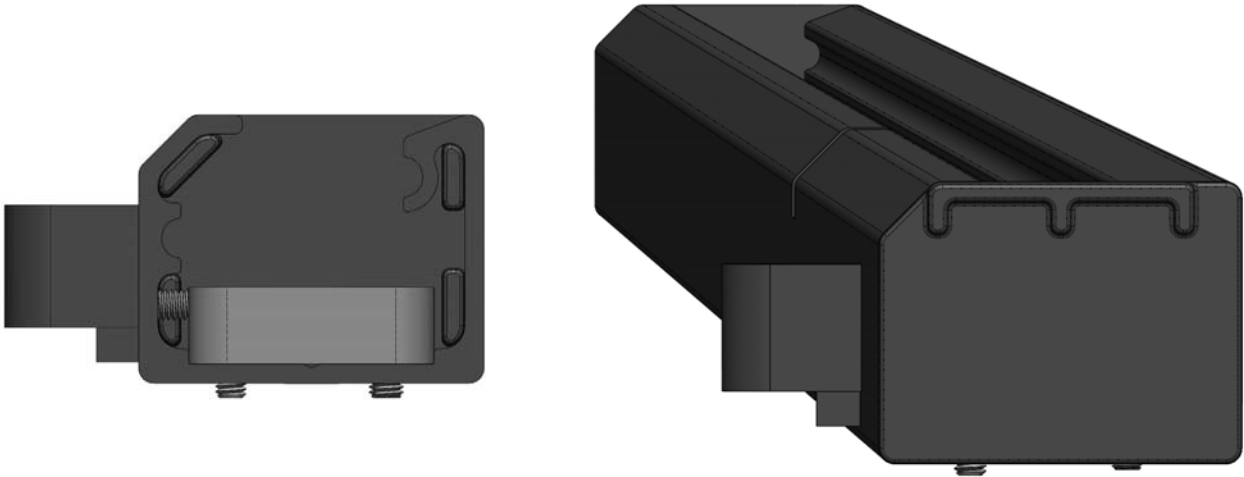
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## Upper Channel and Top Track



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## Lower Track

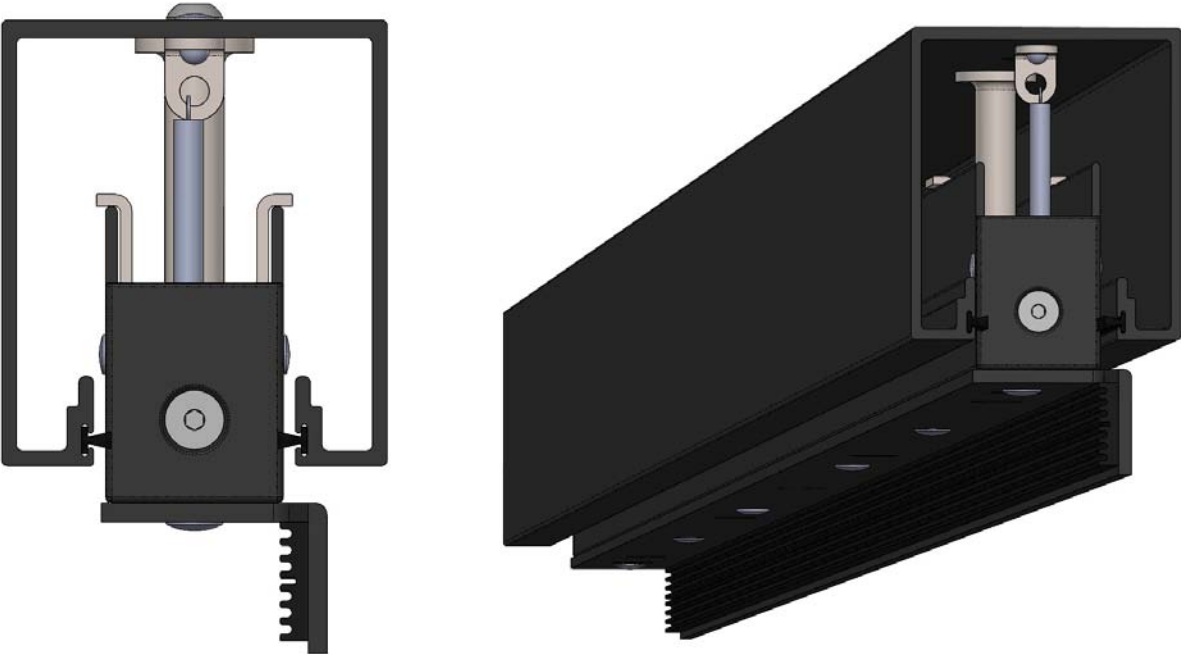




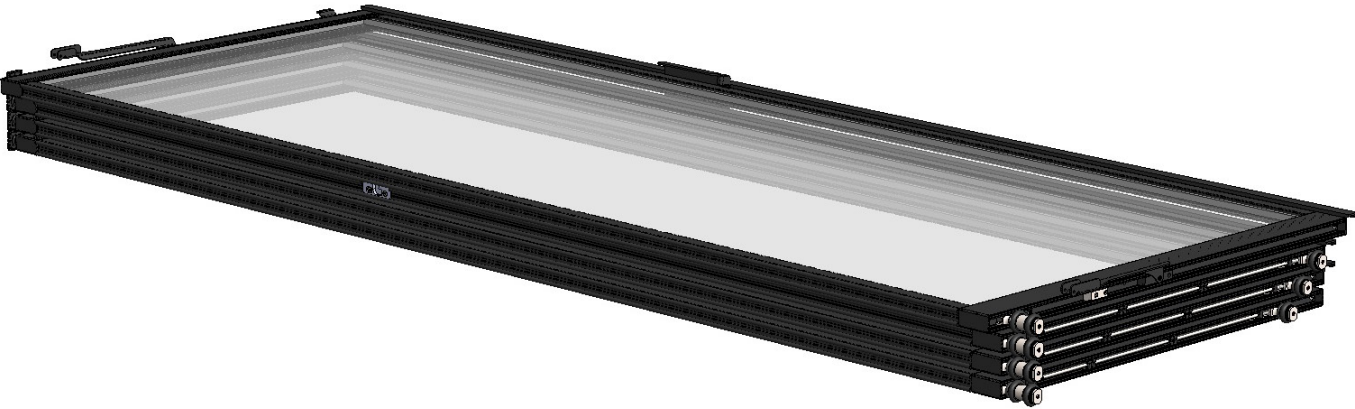
# Parts Identification

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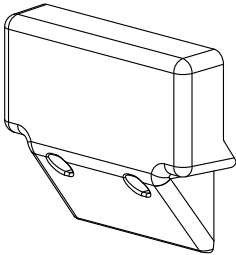
Side Jamb (2x, mirrored)



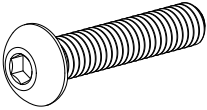
Panels (Daily Door & Sliding Panels)



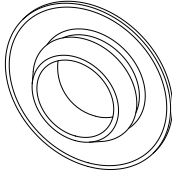
# Build Box List



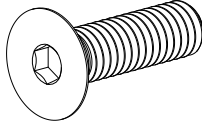
Wheel Guide Cover



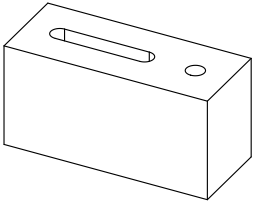
M4 x 20mm  
Button Head Screws



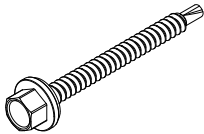
1/2" Plastic  
Hole Plugs



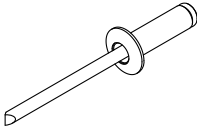
M4 x 14mm  
Flat Head Screws



Upper Track  
Stop Block



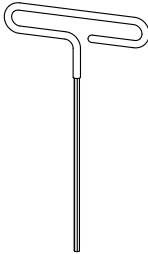
#10 x 2" Self-Drilling  
Sheet Metal Screws



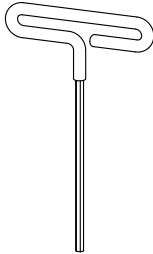
Rivet - Black



2.5mm T-Bar  
Allen Wrench



3mm T-Bar  
Allen Wrench



5mm T-Bar  
Allen Wrench

# Phase 1: Inspection

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## Step 1.1 : Unwrap Parts

Lay all parts out and remove protective wrap. Inspect each part for cosmetic and/or structural damage. Document any damage or excess residue, etc. Touch up parts or apply blue tape to locate for later touch up. Report any damage to Glass Expanse immediately.

## Step 1.2 : Check All Parts

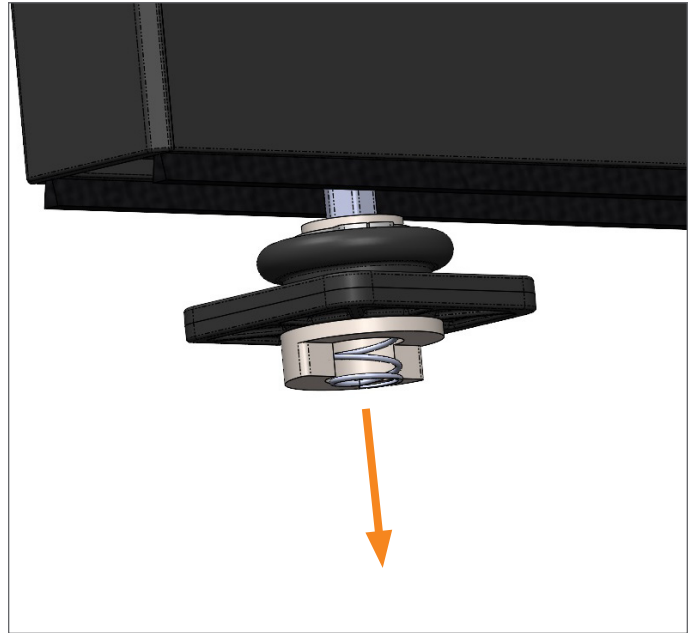
Refer to part drawings and ensure all fastener holes are pre-drilled in tracks and side jambs. Compare assembly drawings to ensure all hardware is present and properly built. Report any missing components to Glass Expanse immediately.

Your installation may be the reverse of what is shown in this document, depending on the side with the Daily Door. Please keep this in mind when checking parts and completing the installation.

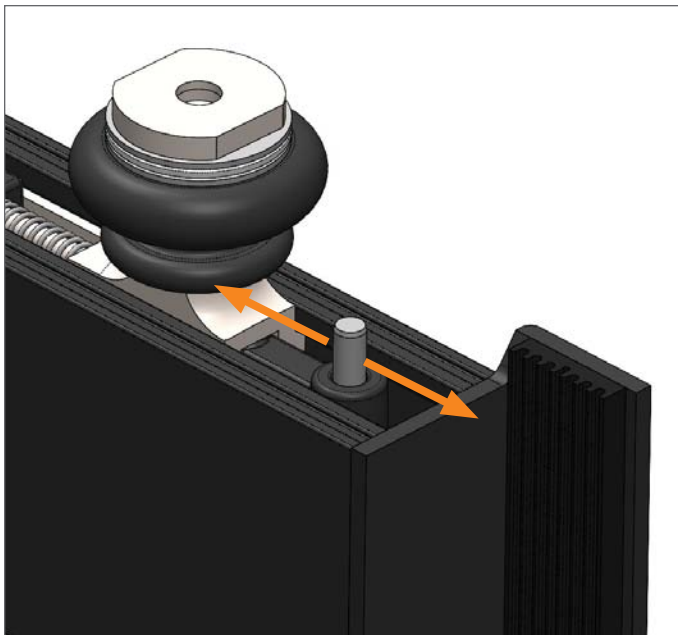
# Phase 1: Inspection

## Step 1.3 : Cycle All Panel Hardware

Before starting the installation, check the support hardware on each panel. On the Daily Door, check the top wheel actuator for proper extension and retraction of the locator pin and the bottom wheel for extension. On all other panels check the bottom wheel for extension and check the top clicker for smooth operation. Cycle the top clickers on each panel back and forth several times, ending with the Locator Pin retracted. If any hardware does not operate properly, call Glass Expanse Service Department.



Check bottom wheel extension for proper operation



Actuate to cycle upper locator pin



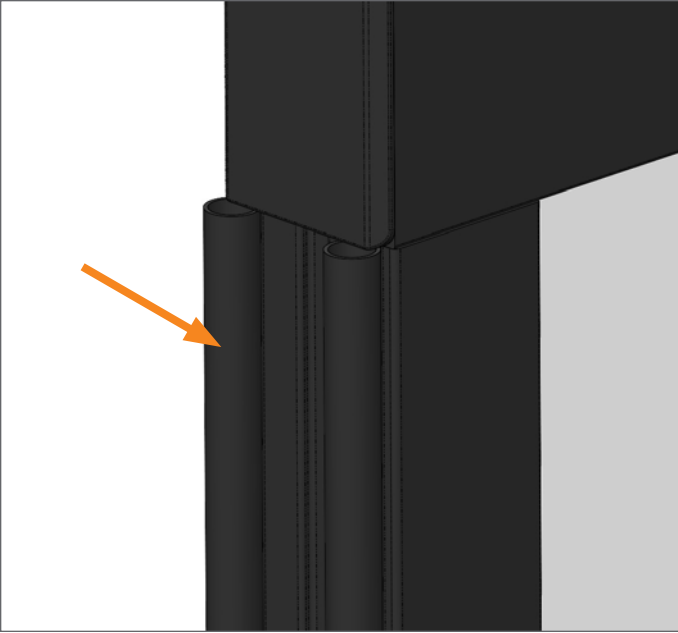
Finish with all locator pins retracted

# Phase 1: Inspection

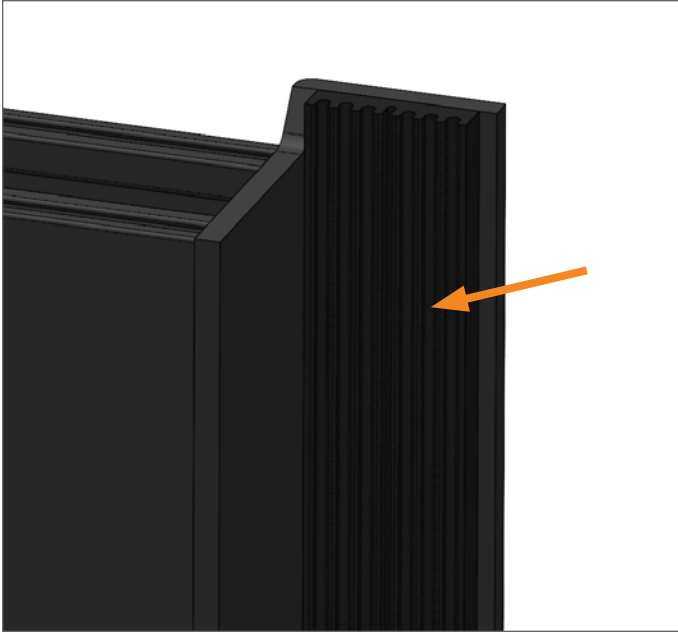
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## Step 1.4 : Visually inspect all Panel Seals

Inspect all seals on each panel. Inspect all bulb seals and Trim-Lok seals to make sure they are intact and undamaged. Report any damage to Glass Expanse Service Department before proceeding.



Inspect all bulb seals



Inspect all Trim-Lok seals

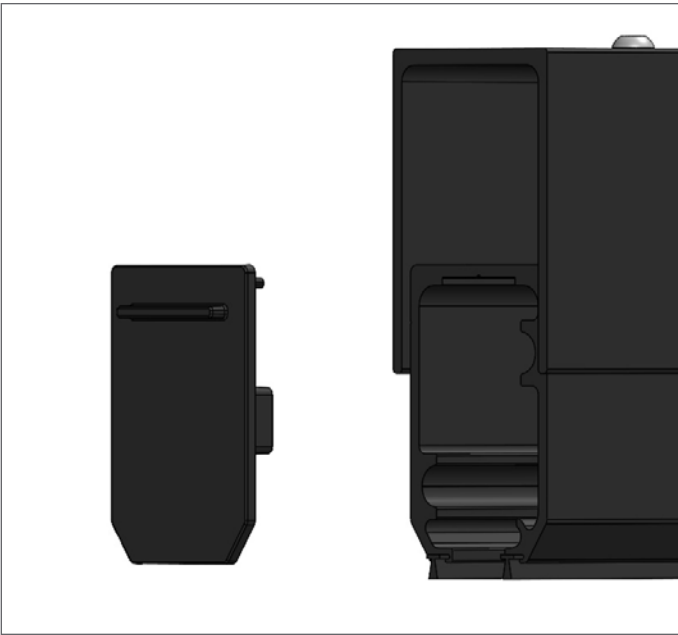
# Phase 1: Inspection

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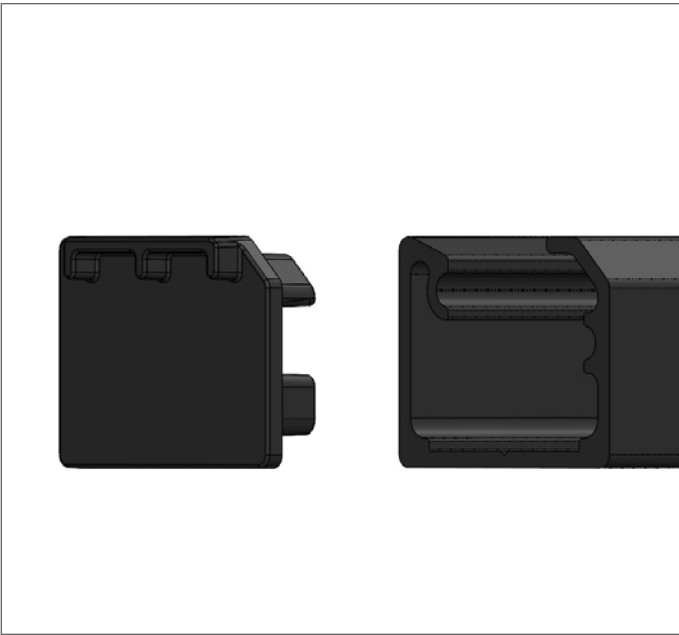
## Step 1.5 : Remove End Caps Opposite the Daily Door

On the Top Track and Lower Track, remove the taped-on End Cap opposite the Daily Door. Remove these caps and reserve them for later. Leave in place the End Caps on the Daily Door side, but remove the tape.

Retain the removed caps for later. DO NOT THROW THEM AWAY!



Remove far End Cap from Top Track



Remove far End Cap from Bottom Track

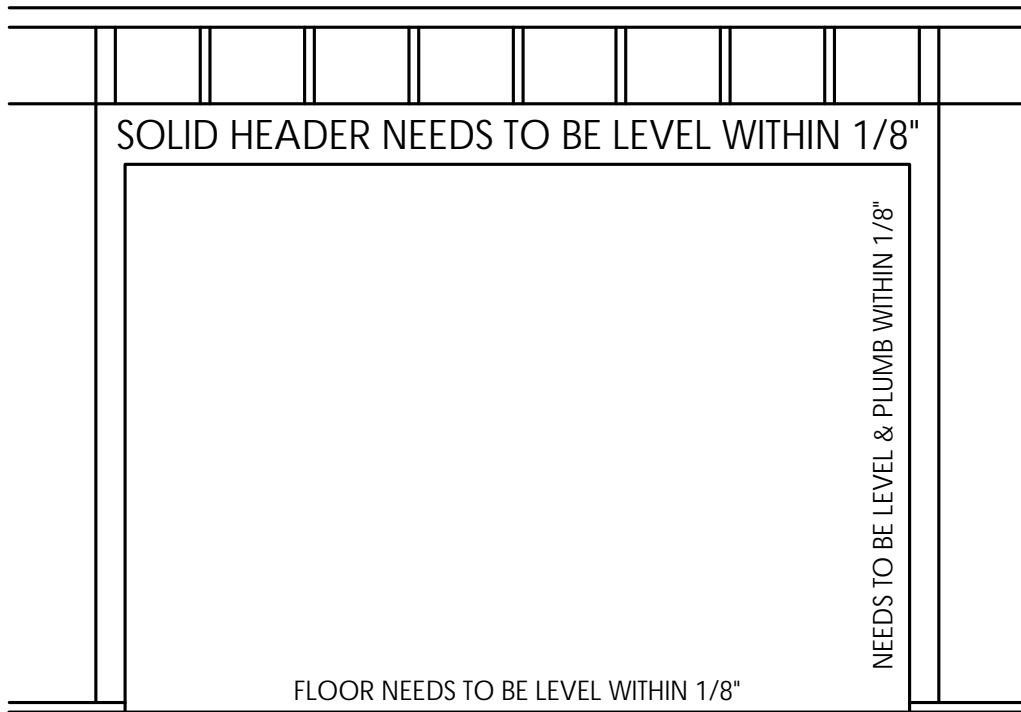
# Phase 1: Inspection

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## Step 1.6 : Rough Opening Surface Preparation

Ensure that code compliant waterproofing has been installed to the opening. This may include flashing tape, sill pan, back dam, and proper adhesive/sealants.

Confirm rough opening dimensions with order confirmation sheet. All four surfaces of the rough opening should be flat and clear of obstructions. Upper and lower surfaces should have less than 1/8" in height variation. Side surfaces should be level and plumb within 1/8".



ROUGH OPENING HEIGHT TO BE MEASURED FROM THE TOP OF INTERIOR SLAB TO BOTTOM OF HEADER

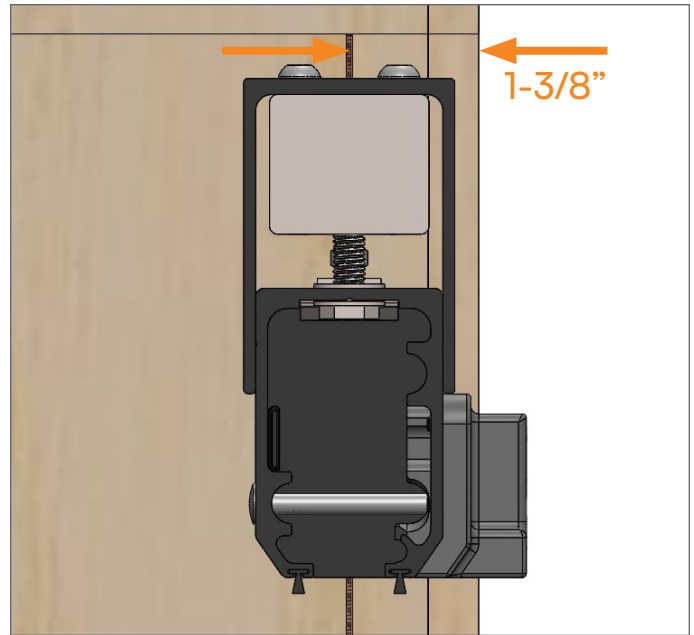
Glass Expanse Framing Specification

## Phase 2: Lower Track

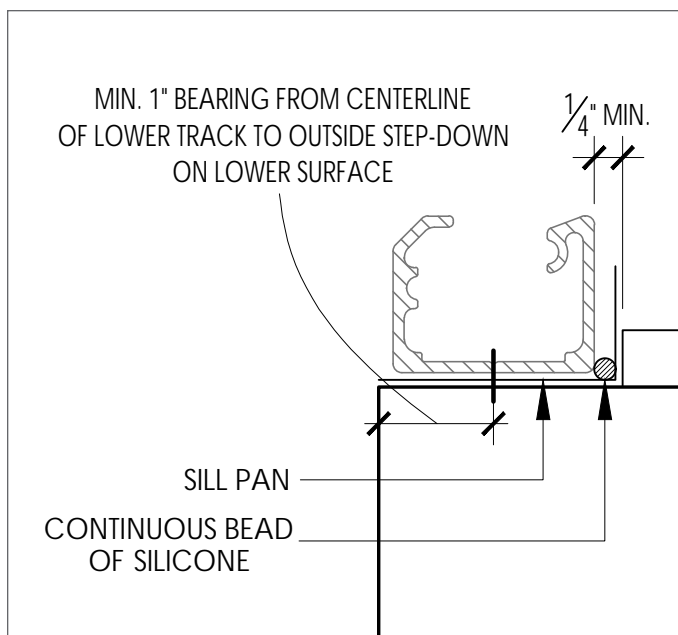
### Step 2.1 : System Layout

Mark center-line at 1-3/8" from outside of exterior sheathing with chalk line. All fastener holes for the Tracks and Side Jamb are located on the chalked center-line.

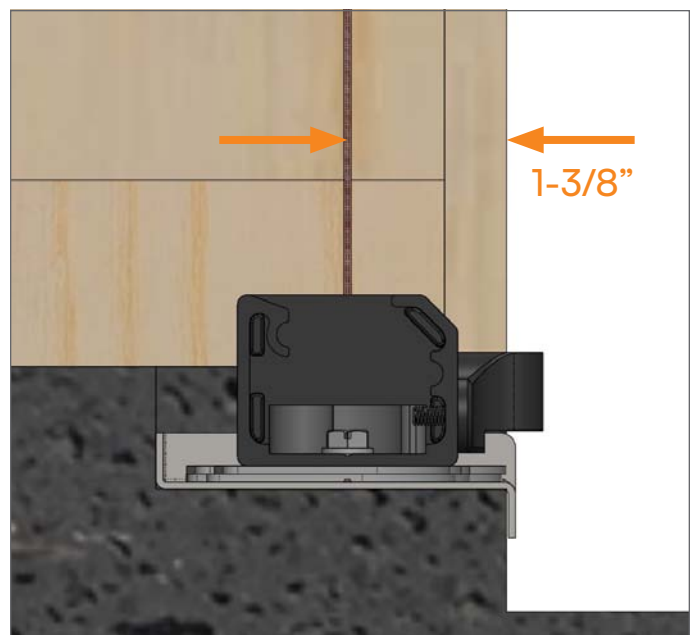
Confirm that all fasteners will mount directly into beam on top and sides. Confirm a minimum of 1" bearing on lower surface - see diagram below. If less than 1" of bearing, move all center-lines towards interior as required to meet minimum bearing dimension of 1".



Upper Track with chalked center-line



Confirm 1" minimum bearing for the center-line location



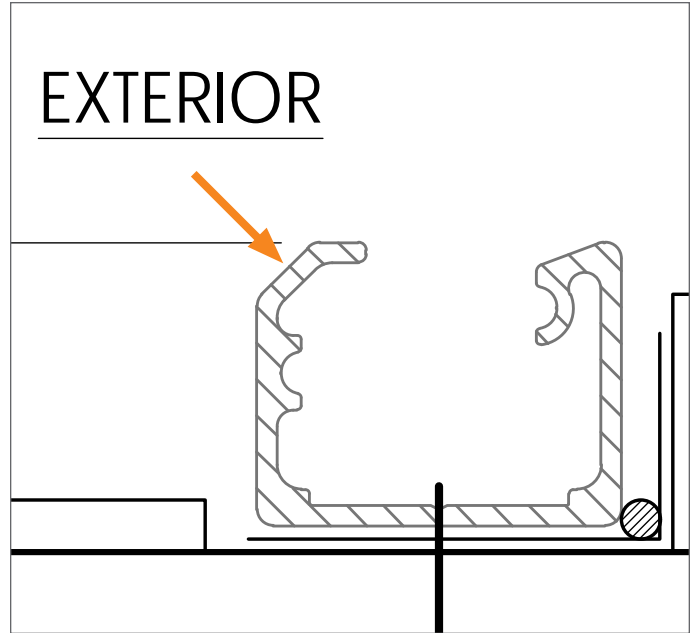
Lower Track with chalked center-line



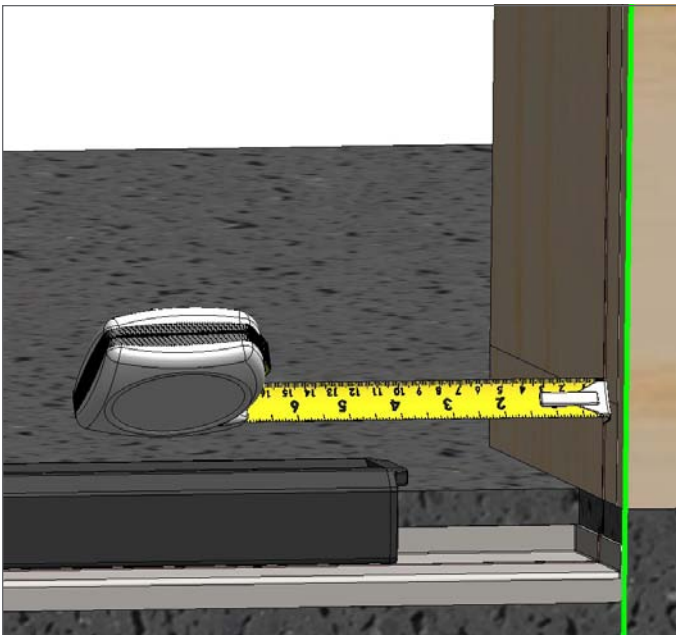
## Phase 2: Layout

### Step 2.2 : Center Track in Rough Opening

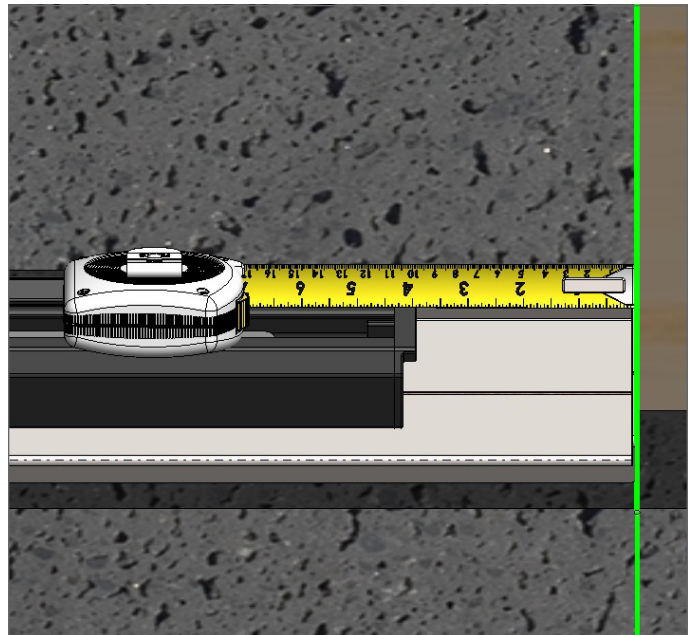
Orient the Lower Track with the beveled edge facing the exterior. Align the factory-drilled holes on the snapped center-line. Center the Lower Track in the rough opening, with beveled edge facing the exterior. Lower track ends cannot be closer than 3-3/8" to the side of framed opening. Using a laser level, ensure there is minimum required measurements at the innermost point on each side of the framed opening.



Beveled Edge of Lower Track Faces Exterior



Find innermost point on frame with laser level



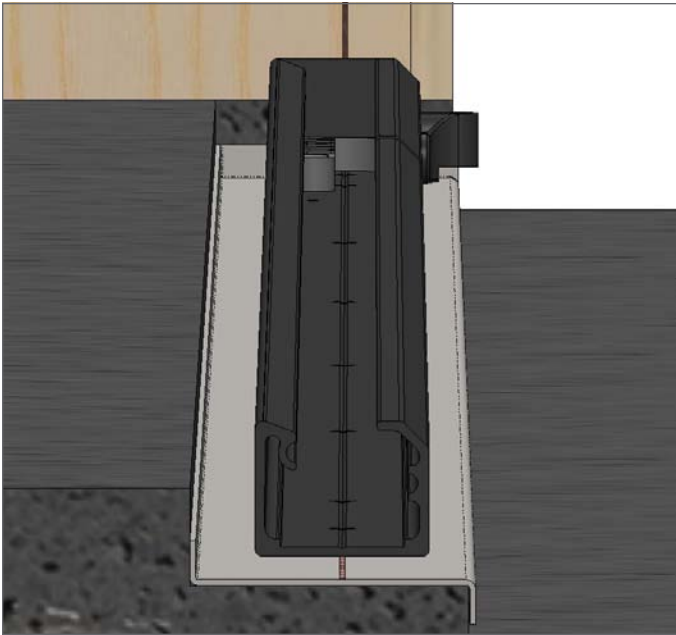
Ensure minimum of 3-3/8" on each end

## Phase 2: Layout

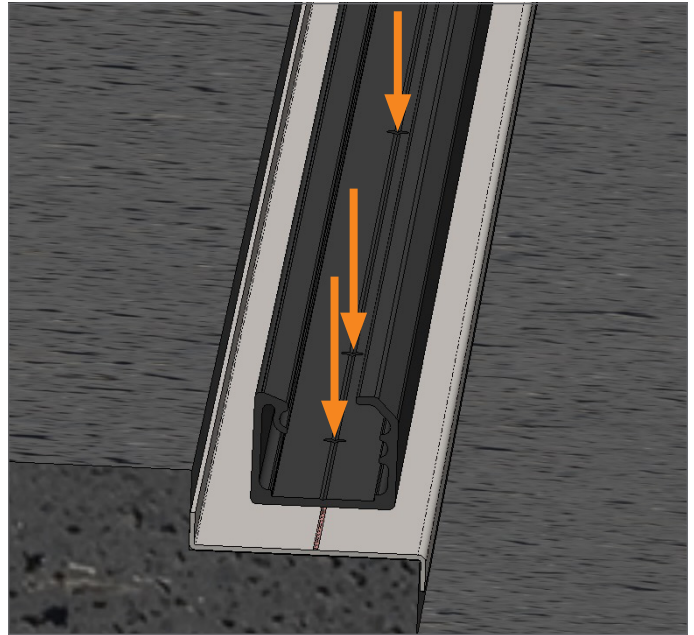
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### Step 2.3 : Pre-Drill Holes in Lower Surface

Without moving the Track, hold the Track in place with downward pressure and drill shallow 1/2” holes into the lower surface at each factory-drilled hole in the Lower Track. Each drilled hole should be centered on the chalked center-line.



Center of Track is positioned on chalked center-line



Drill shallow holes at all Track hole locations

### Step 2.4 : Drill Holes

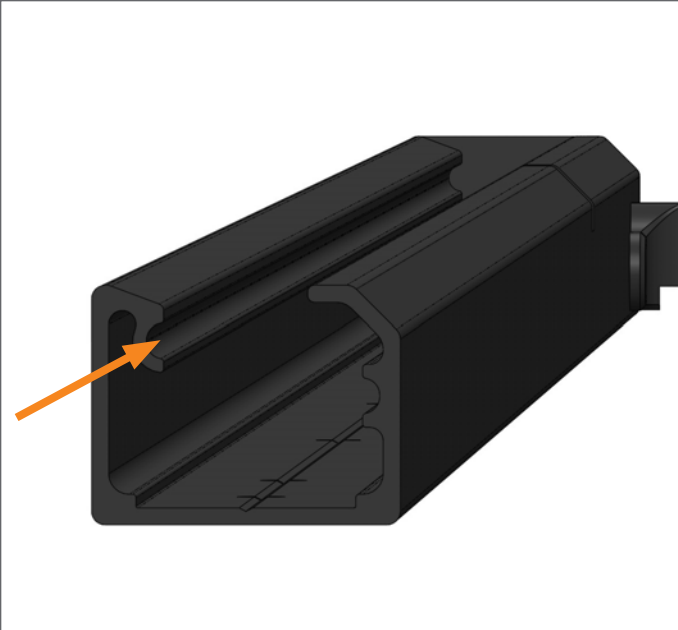
Remove Lower Track once all holes are marked and drill all holes to full depth, 1/2” over the full fastener length.

# Phase 2: Layout

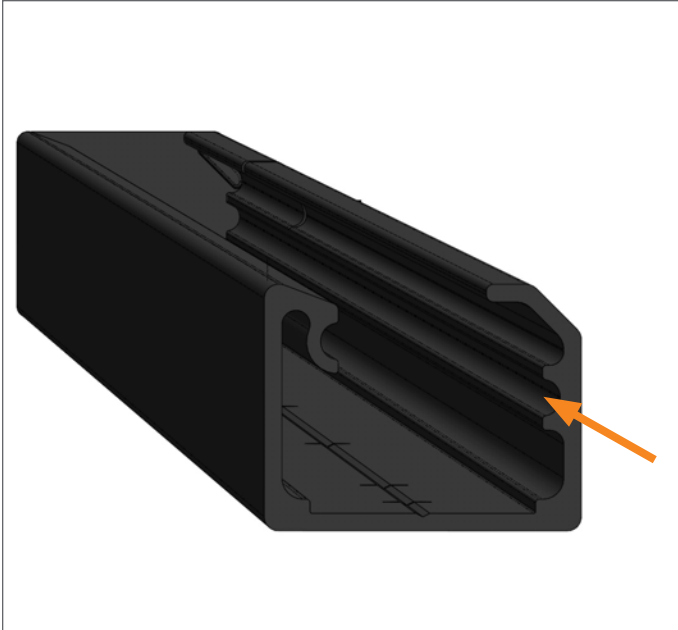
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## Step 2.5 : Clean Track

Clean out the Lower Track and remove all concrete debris and metal shavings with a vacuum and rag. Ensure that the two rails on the interior of the track are completely free of debris.



Ensure the rear rail is clean



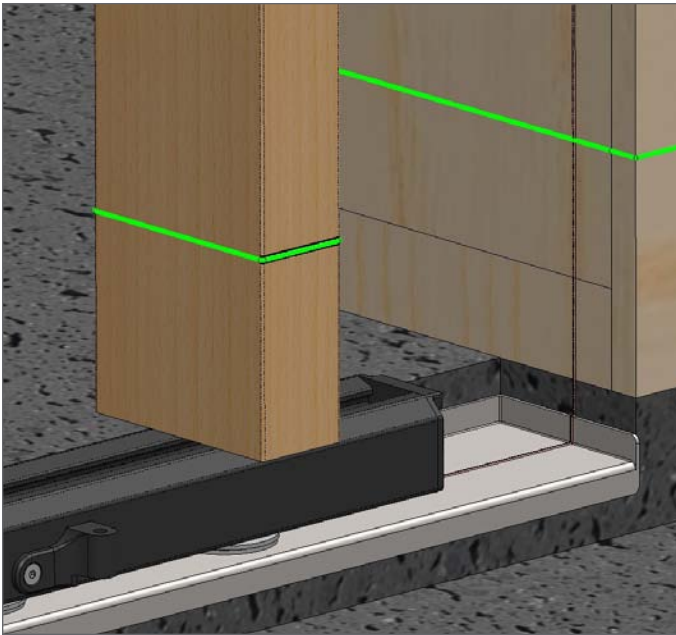
Ensure the front rail is clean

## Phase 2: Layout

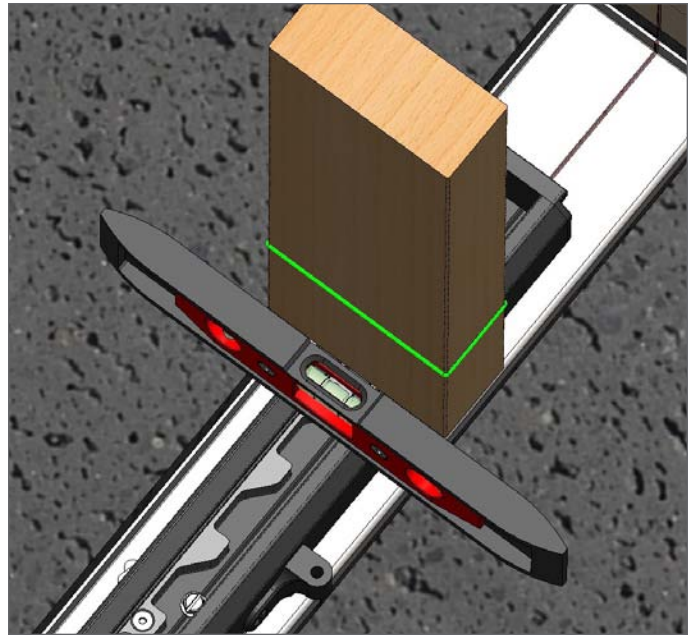
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### Step 2.6 : Level and Fix Lower Track

Fasten Lower Track to lower surface with appropriate fasteners in a level and twist-free orientation. Check the track levelness with laser level and marked block at each fastener point along the Lower Track. At the same time check the twist at each fastener with a bubble level. Adjust the levelness and twist by adding, removing, or adjusting shims. With fasteners fully seated, Lower Track should be level and without twist.



Check track height with block and laser level



Check twist with torpedo level

## WARNING

This is the most critical part of the installation process!  
If there are any questions, please contact Glass Expand.

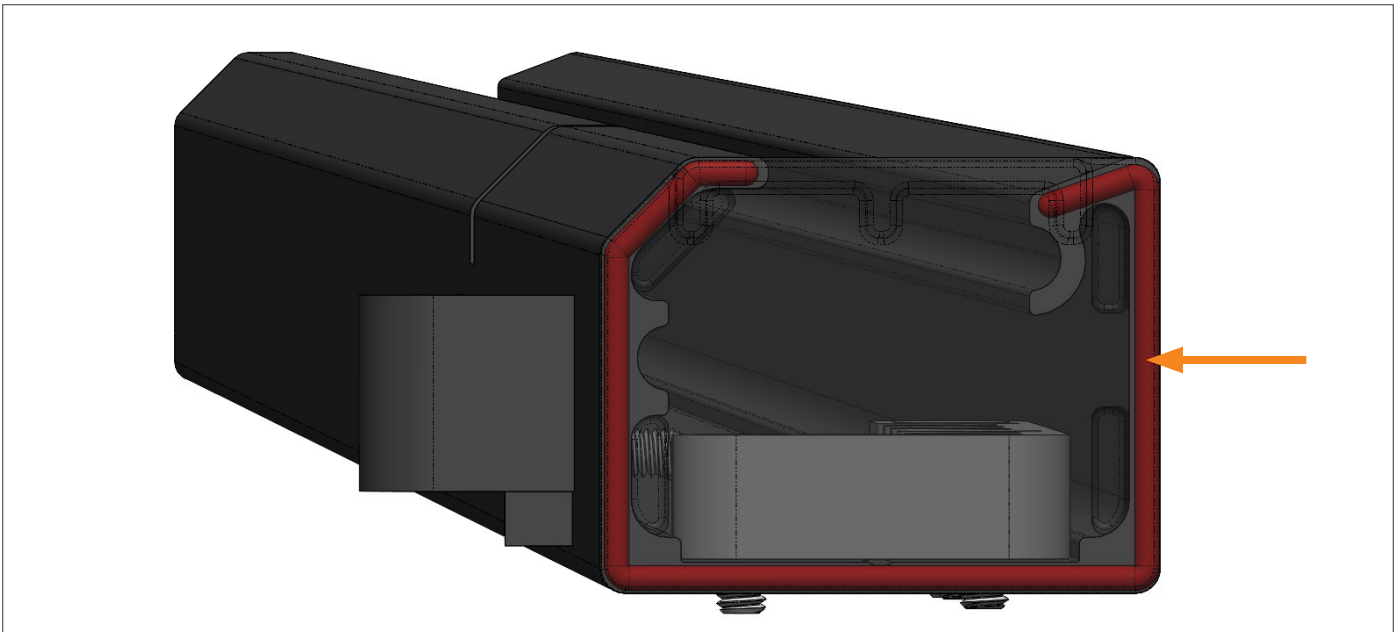
## Phase 2: Layout

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### Step 2.7 : Inspect Daily Door-Side End Cap

Inspect the factory-installed Daily Door-Side End Cap on the Lower Track to ensure proper silicone adhesion. If this is not properly sealed, water can migrate to the interior.

If the factory-completed seal has come loose or is damaged in any way, reinstall the End Cap by applying silicone sealant and ensure that sealant pushes out on all three sides. Clean up any excess sealant on visible sides.



If Cap has come loose, seal around the entire perimeter of the End Cap

### ATTENTION

Do not skip this step. If this step is not completed correctly, you are unable to seal the lower edge of the Daily Door End Cap later!

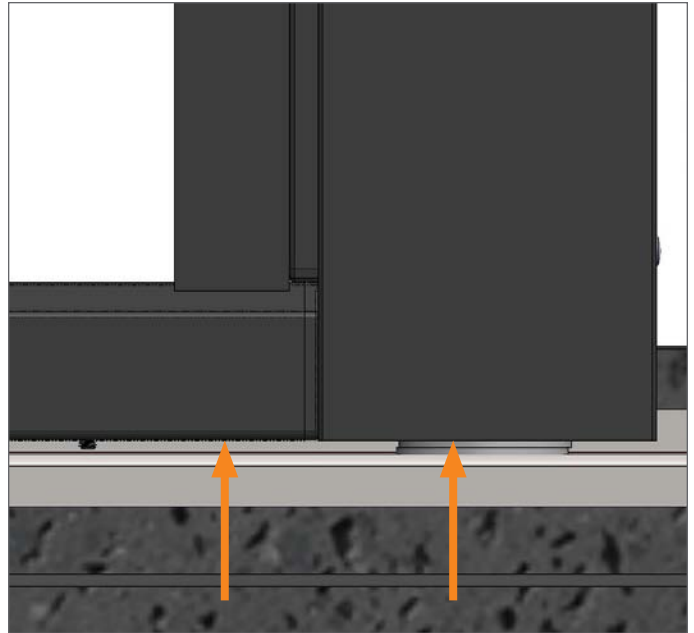
## Phase 3: Daily Door Side Jamb

### Step 3.1 : Set Side Jamb Height

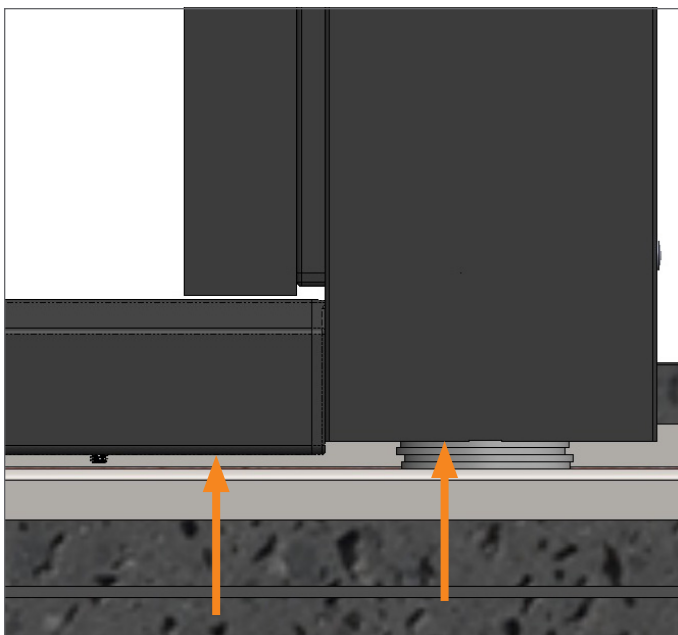
Place the Daily Door Side Jamb against the Lower Track end cap and on center-lines on frame. Place shims under Side Jamb to support it, aligning the bottom of the Side Jamb and the Lower Track. Adjust shims until these parts are aligned at the bottom.

#### ATTENTION

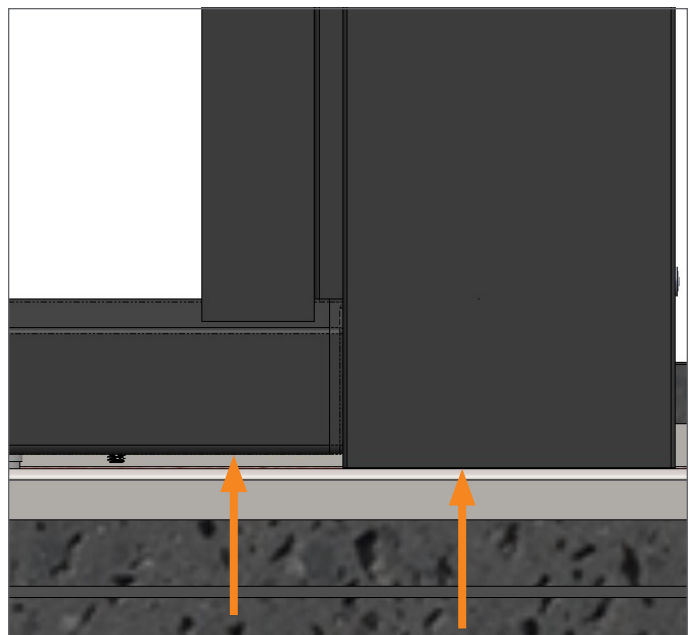
This step is critical for proper installation.



Set Side Jamb flush with the Lower Track



DO NOT set Side Jamb higher than Lower Track



DO NOT set Side Jamb lower than Lower Track

## Phase 3: Daily Door Side Jamb

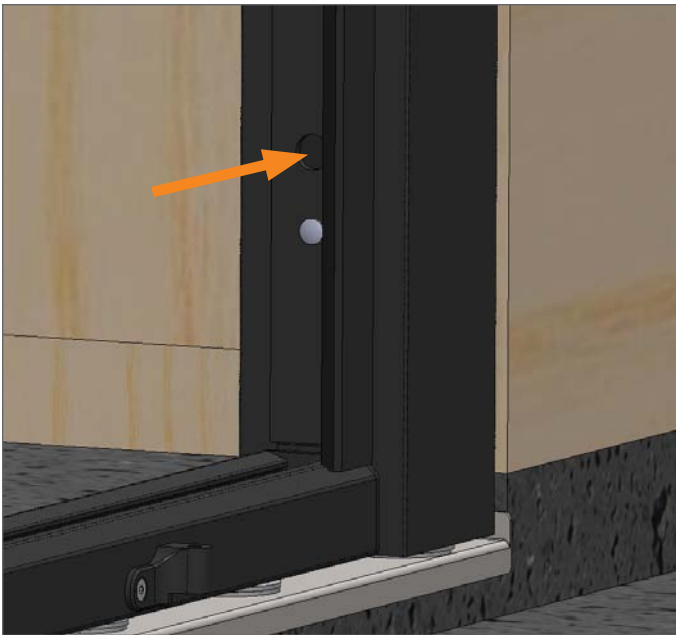
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### Step 3.2 : Loosely Fasten Side Jamb

Hold Side Jamb in place against the Lower Track. Loosely run fasteners through the large factory-drilled holes in the Inner Side Jamb and the factory-drilled holes in the back of the Side Jamb. Use extension and magnetic drive guide to reach the hardware through Inner Side Jamb and through the holes on the outside of the Side Jamb. Align all screws on the snapped center-line.

Keep hardware loose enough for Side Jamb to press against the Lower Track.

4" screws are recommended for better application through the Side Jamb.



Run fasteners through the hardware holes



Holes in Inner Side Jamb and Side Jamb align

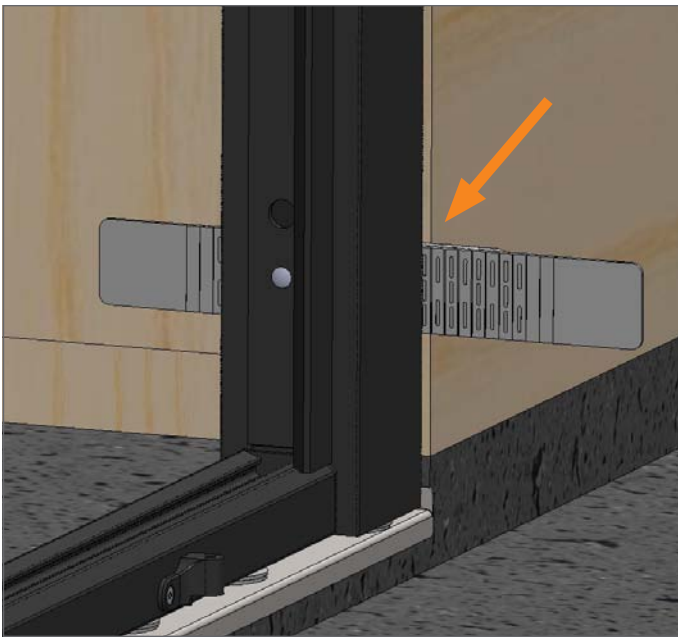


## Phase 3: Daily Door Side Jamb

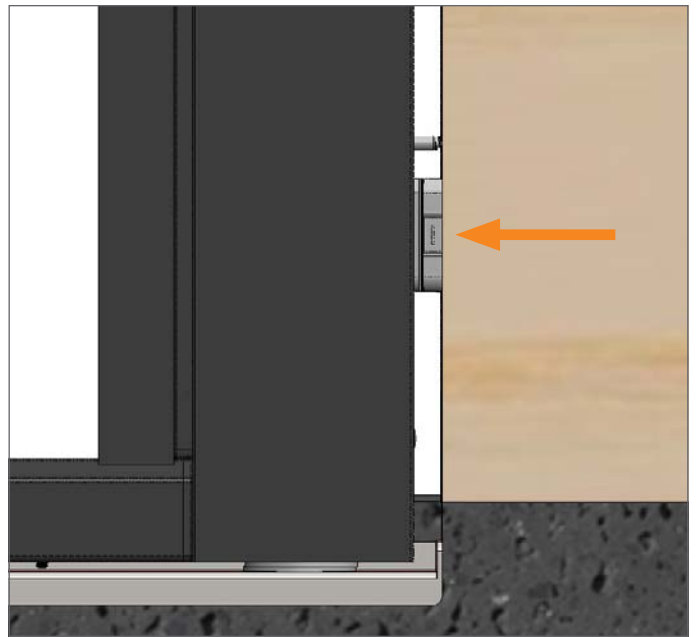
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### Step 3.3 : Shim and Secure Side Jamb Lower Fastener

Shim Side Jamb to plumb using shims between the Side Jamb and the rough opening frame, below the lower fastener. Make sure to place shims below the lower fastener. Ensure Side Jamb is tight to Lower Track and that there are no gaps on the interior or exterior between Side Jamb and Lower Track end cap. Once the joint is shimmed tight, run fastener tight and double check tightness on both sides of joint at bottom. Ensure that no light is visible through this joint.



Add shims below lower fastener



Add shims below the lower fastener



## Phase 3: Daily Door Side Jamb

---

### Step 3.4 : Shim and Secure Side Jamb Upper Fastener

After the bottom of the Side Jamb is fastened tight, shim the top of the Side Jamb out to plumb with shims above the top fastener. Check with laser level aligned to the bottom of Side Jamb. Once plumb, run fastener tight.



Shim top side of Side Jamb above the top fasteners

### **ATTENTION**

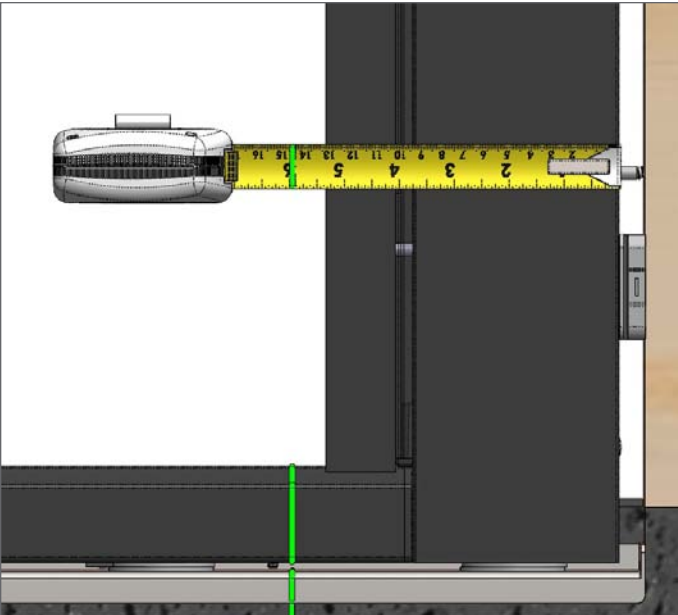
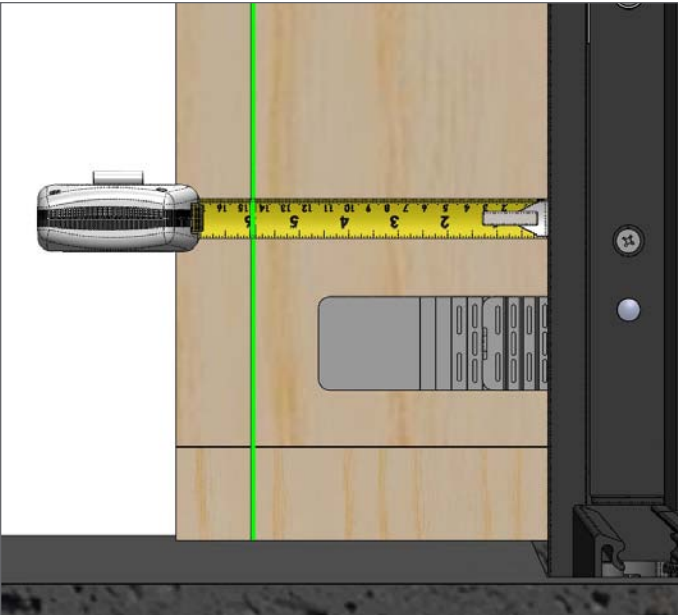
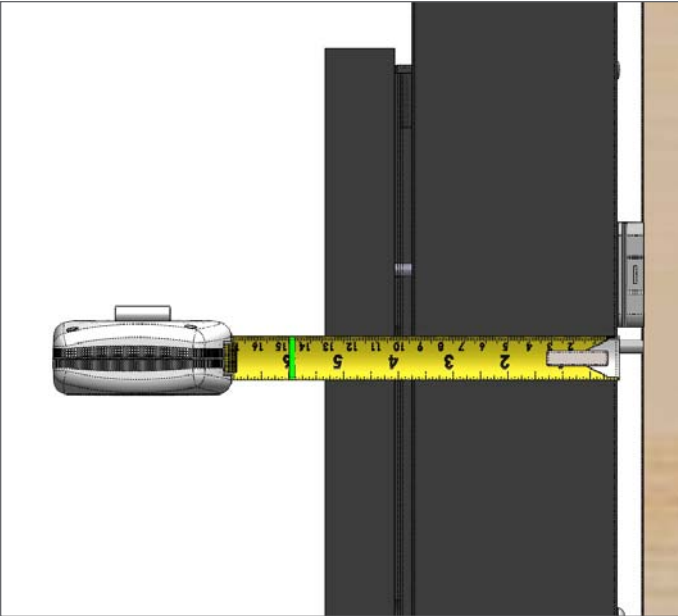
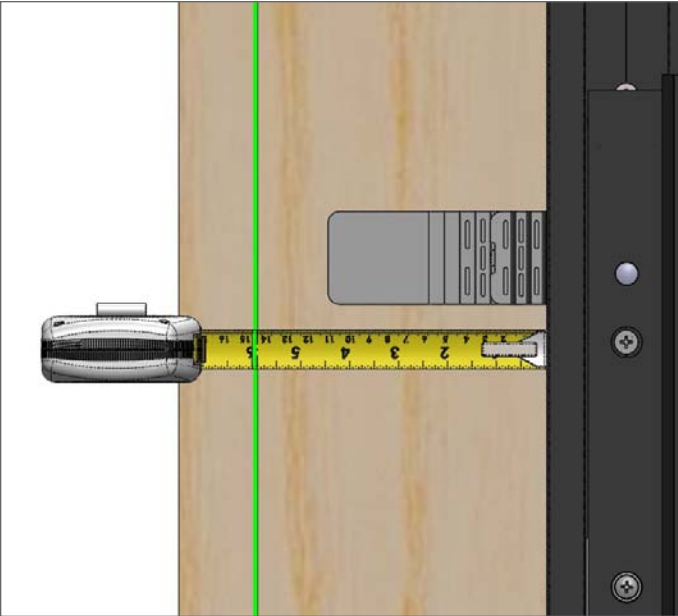
**This step is second most critical for proper installation!**

# Phase 3: Daily Door Side Jamb

## Step 3.5 : Check Side Jamb for Plumb

With top and bottom fasteners tight, check Side Jamb for plumb in both orientations by measuring to laser line. If Side Jamb is out of plumb by more than 1/16", correct it.

Check for plumb at all fasteners.

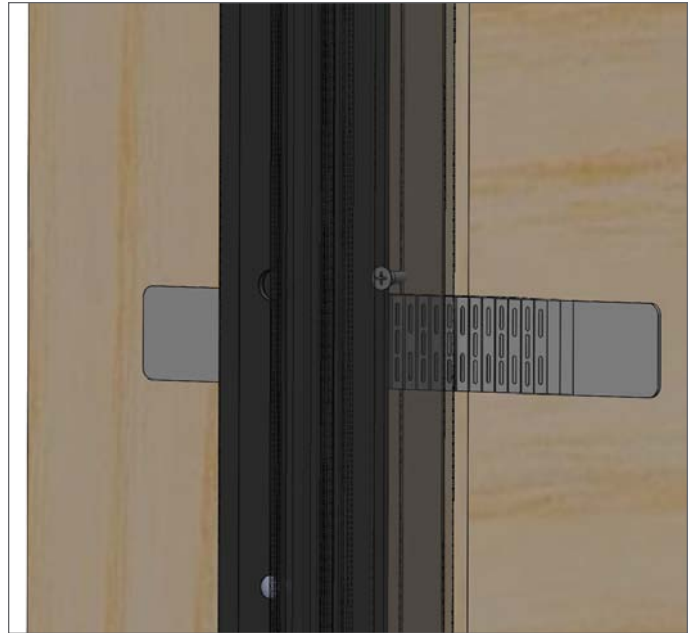


## Phase 3: Daily Door Side Jamb

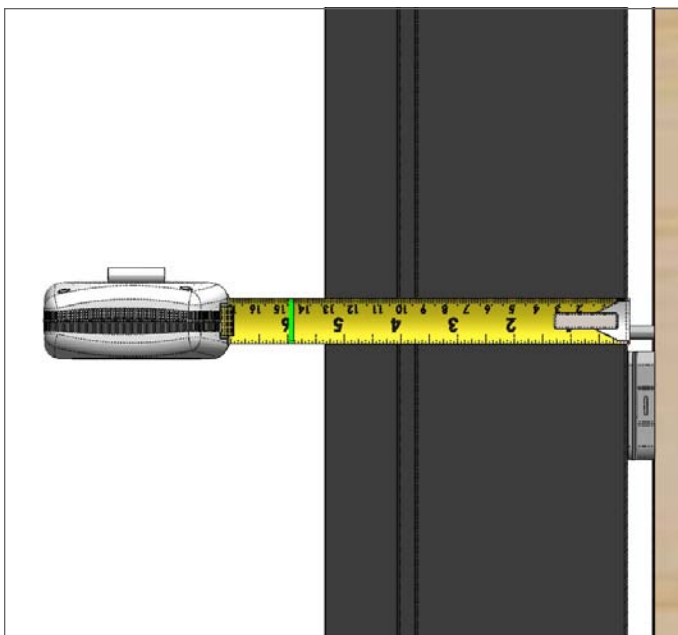
### Step 3.6 : Shim and Secure Side Jamb Middle Fastener(s)

Add shims at each middle fastener and secure the middle fastener(s) tight, checking at each fastener for plumb in both orientations  
Press wedge shims in until snug behind side jamb and close to the additional fastener holes.  
Ensure the side jamb is straight with the laser level with no bow in any direction of more than 1/16”.

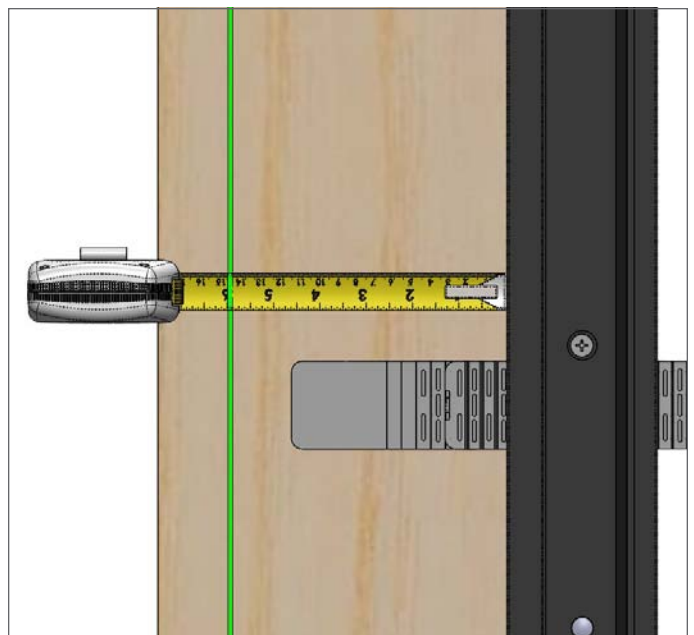
Tighten all middle fasteners and double check for straightness.



Shim each middle fastener



Plumb each middle fastener



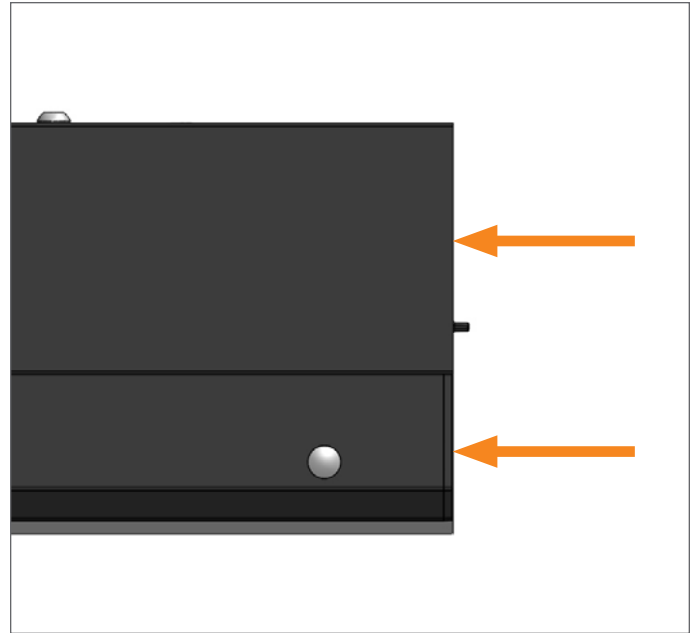
Plumb each middle fastener

## Phase 4: Top Track

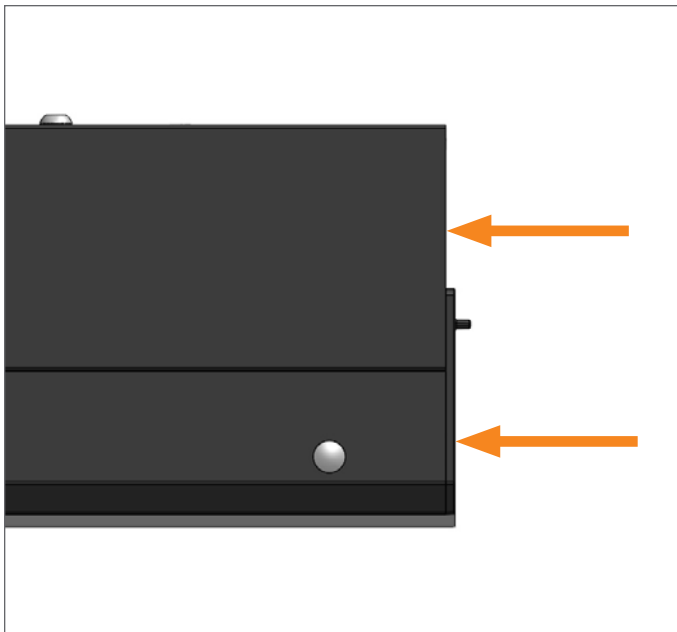
### Step 4.1 : Flush Top Track

Make sure the Top Track End Cap is pushed into the track tightly. Confirm that the end of the Top Track End Cap is perfectly flush with the outside of the Upper Channel when the End Cap is pushed in tight.

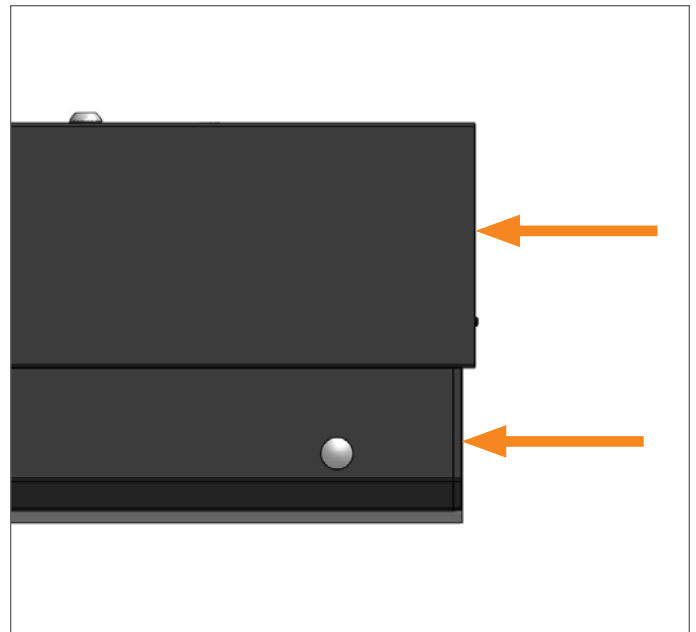
Keep End Cap installed in Top Track for next step.



Upper Channel and Top Track are aligned



Adjust if Top Track is set outside the Upper Channel



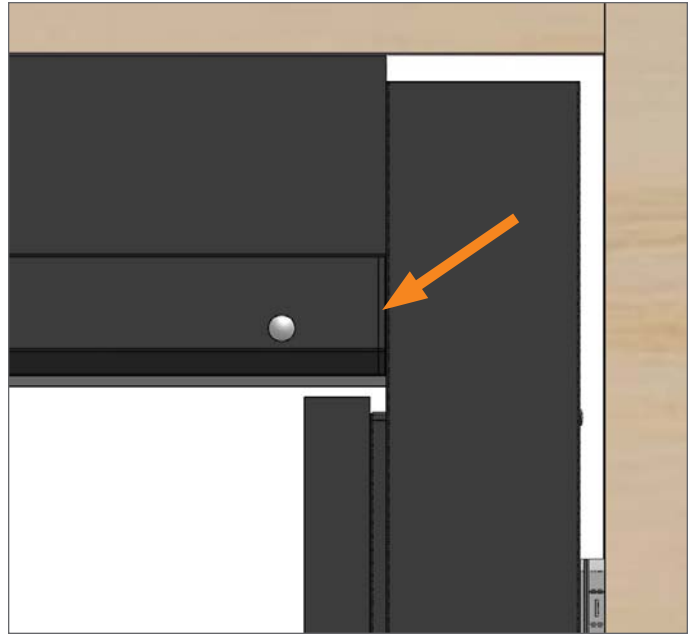
Adjust if Top Track is set inside the Upper Channel

## Phase 4: Top Track

### Step 4.2 : Fix Upper Tracks to Header

Ensure that End Cap is installed on Daily Door end of Top Track. Lift Top Track and align with snapped center-line on header. Once centered on line, ensure Upper Channel is tight to top of side jamb.

Pre-drill all holes in the beam starting at the hinge side of the track. Ensure all pre-drill holes are plumb so fasteners do not pull the track in any side to side direction.



Ensure End Cap is installed when holding track in place



Upper Track fastener location, Daily Door side

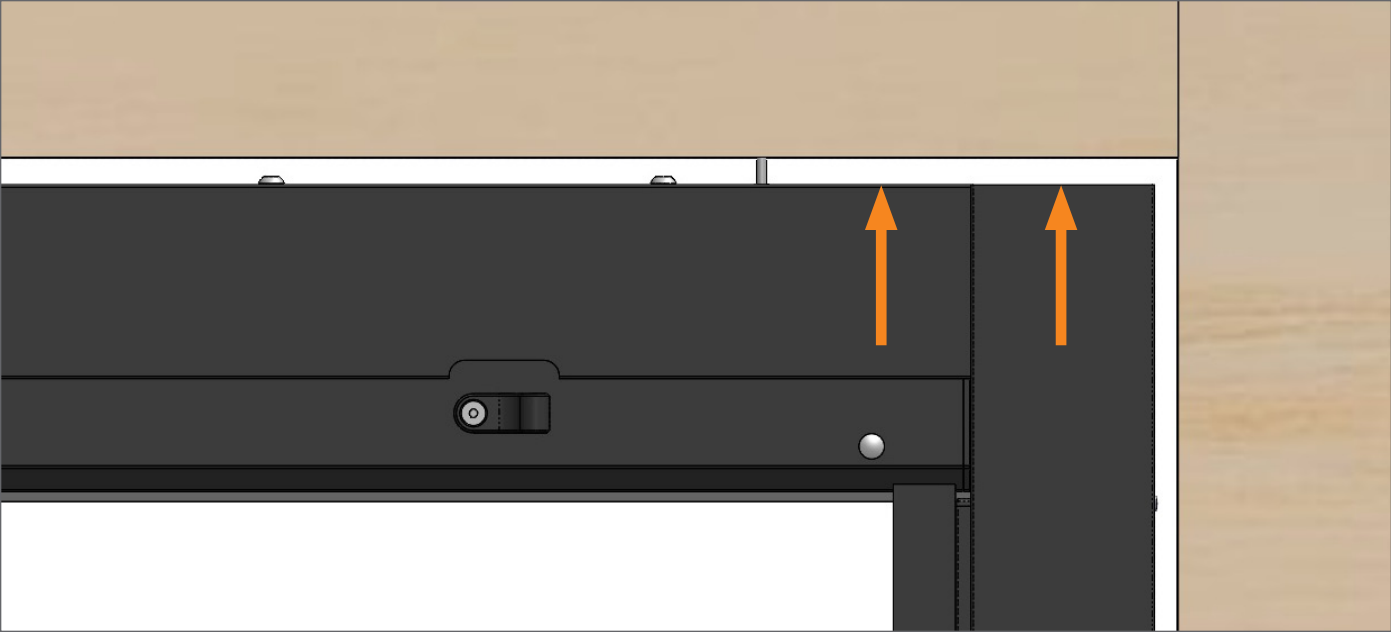


Other fastener locations in keyholes

# Phase 4: Top Track

## Step 4.3 : Secure and Level Upper Channel

Run fasteners through holes in Upper Channel and into header, roughly aligning the top of the Upper Channel with the top of the Side Jamb. Ensure there is a fastener in all holes in the Upper Channel. Confirm all fasteners line up with center of chalk line and sit plumb.

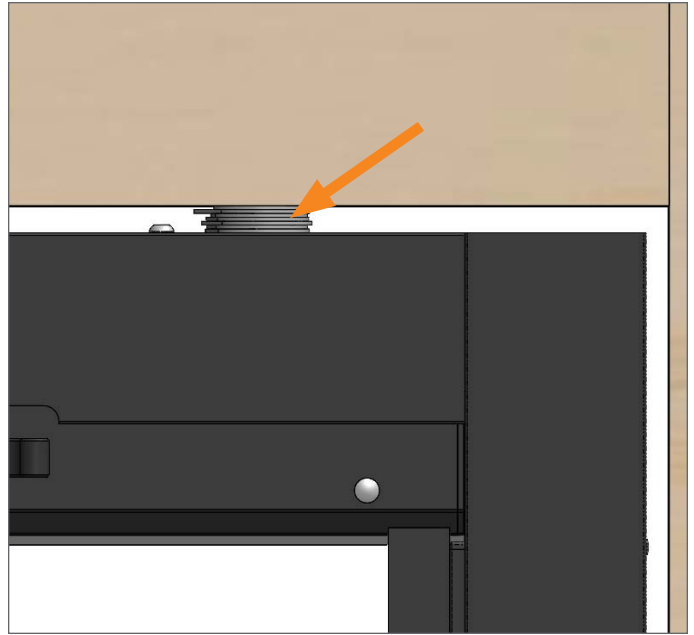


Roughly align Upper Channel with top of Side Jamb

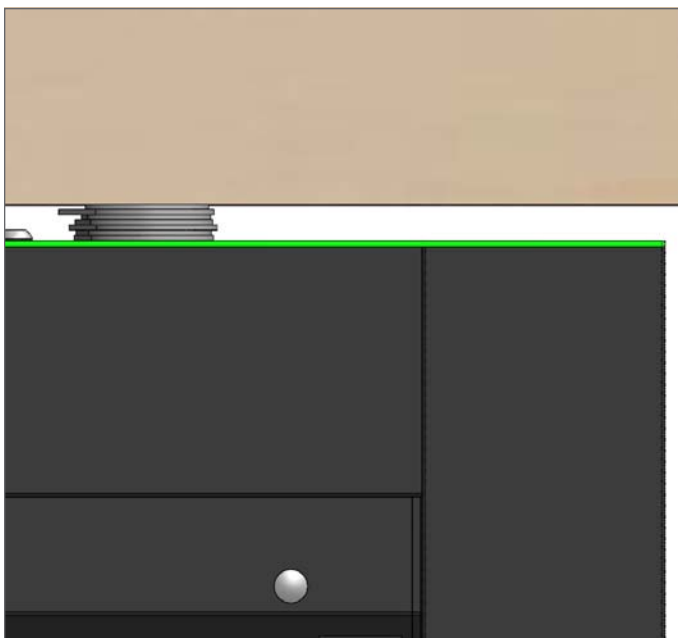
## Phase 4: Top Track

### Step 4.4 : Shim Top Track to Level

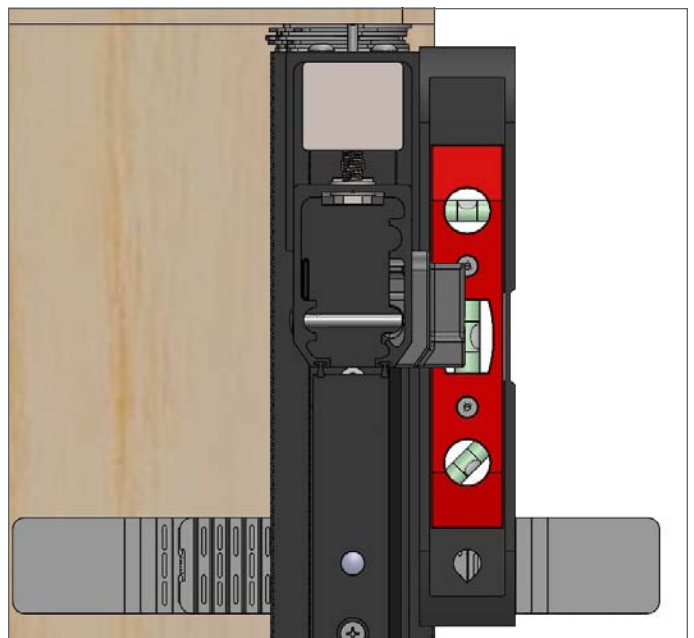
Using composite shims, level the upper tracks starting on the Daily Door side. Ensure the top of the Upper Channel is flush with the top of the Daily Door Side Jamb, and then level Upper Channel from that point across. Check upper tracks for plumb with a torpedo level and tighten all fasteners as you move along, starting at the Daily Door side and ending at the far side.



Shim Upper Channel at each fastener



Align Upper Channel and Side Jamb with laser



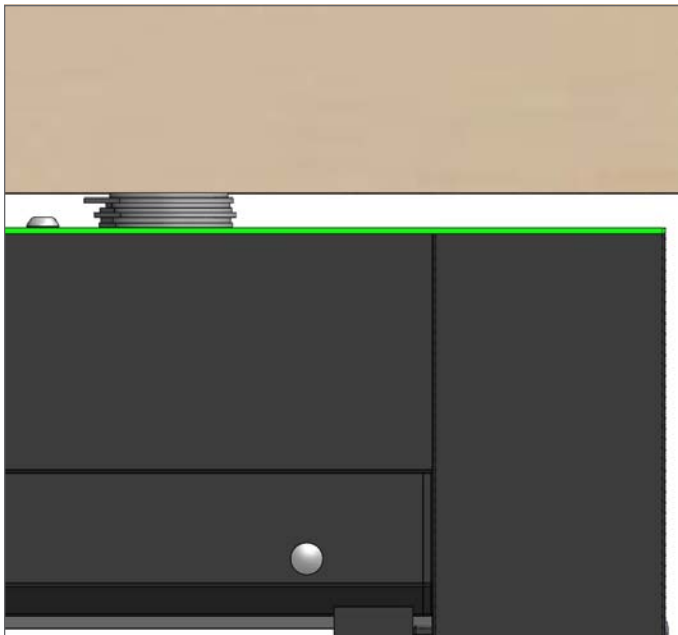
Check plumb of Upper Track with torpedo level

## Phase 4: Top Track

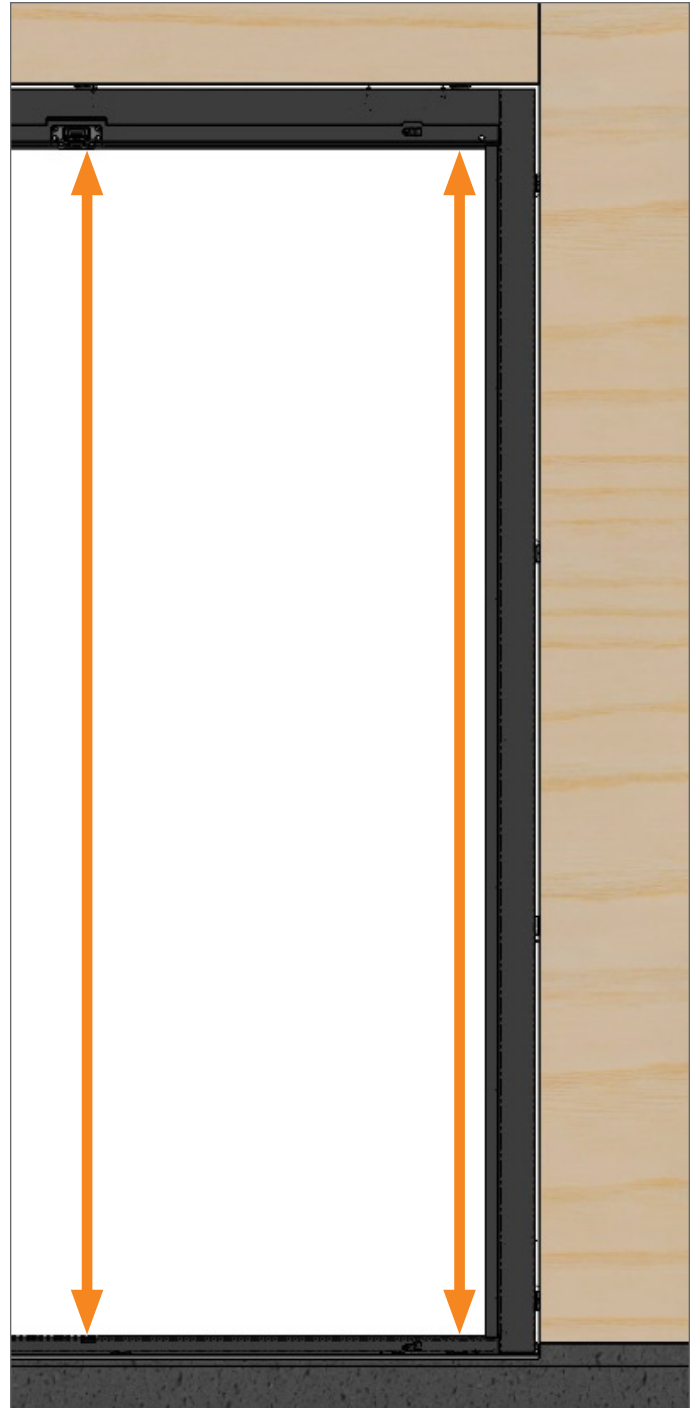
### Step 4.5 : Confirm all measurements and level/plumb

Confirm that Upper Channel sits flush with top of Daily Door Side Jamb. Confirm that Upper Channel sits within 1/8" of level over entire length. Confirm that Upper Channel sits parallel with Lower Track within 1/8" over entire length. Confirm that Upper Channel sits plumb at all fastening locations with torpedo level.

Start measurements at Daily Door side and measure at each fastener.



Confirm flush and level with laser



Measure at each fastener location to check parallel



## Phase 4: Top Track

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### Step 4.6 : Check Tracks and Side Jamb Joint

Ensure the joint is tight between Lower Track End Cap and Side Jamb. Ensure the joint is tight between Upper Channel and Side Jamb. Ensure Top Track End Cap is tight to Side Jamb.

If Upper Track does not sit tight, adjust the fasteners in Upper Track.



Upper Track End Cap and Channel are tight to Side Jamb



Lower Track End Cap is tight to Side Jamb

### **ATTENTION**

**DO NOT** move the side jamb to create a tight seal to upper track.

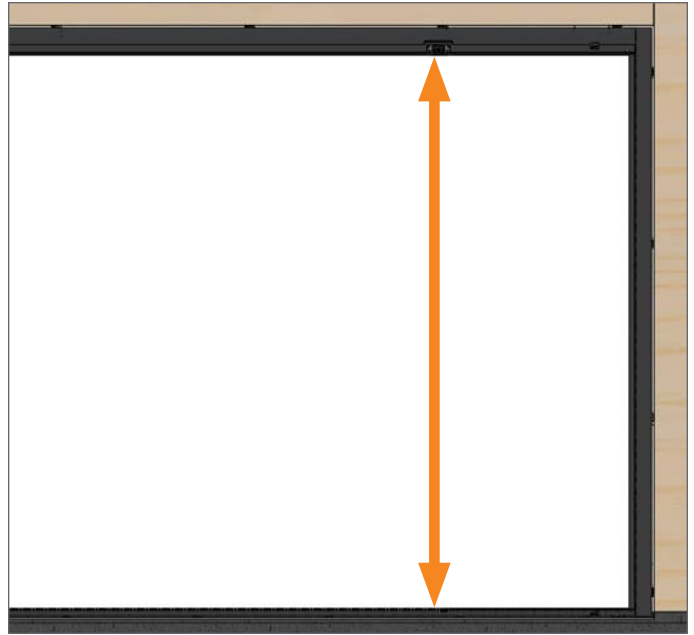
If required, adjust fasteners in upper track to enable the track to sit tight against the side jamb.

## Phase 4: Top Track

### Step 4.7 : Set Top Track

Using 5mm T-bar Allen wrench and adjuster bolts in Top Track, raise or lower the track to set the height at  $\frac{3}{8}$ " over the panel height.

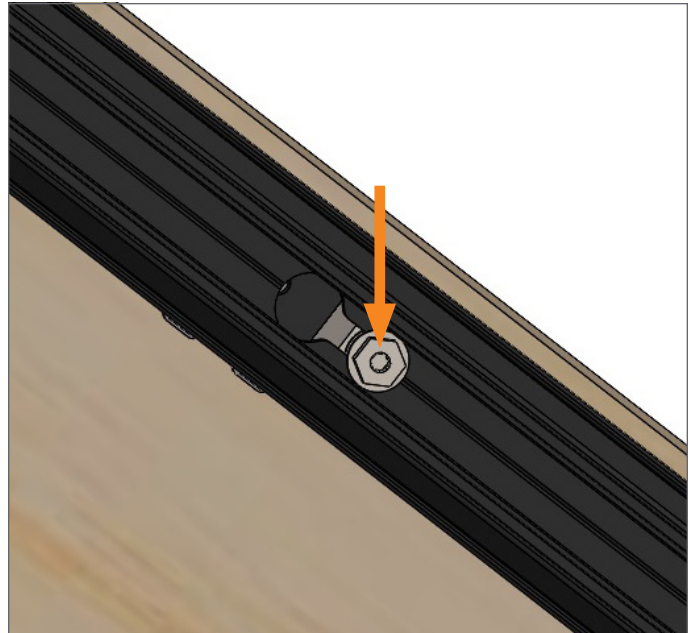
At each adjuster bolt, turn clockwise to raise the track and counter-clockwise to lower the track. Ensure gap measurement between Lower Track and Top Track is within  $\frac{1}{32}$ " of required spec.



Measure height at  $\frac{3}{8}$ " over panel height



Daily Door adjusters



Other adjusters

## Phase 5: Daily Door Panel

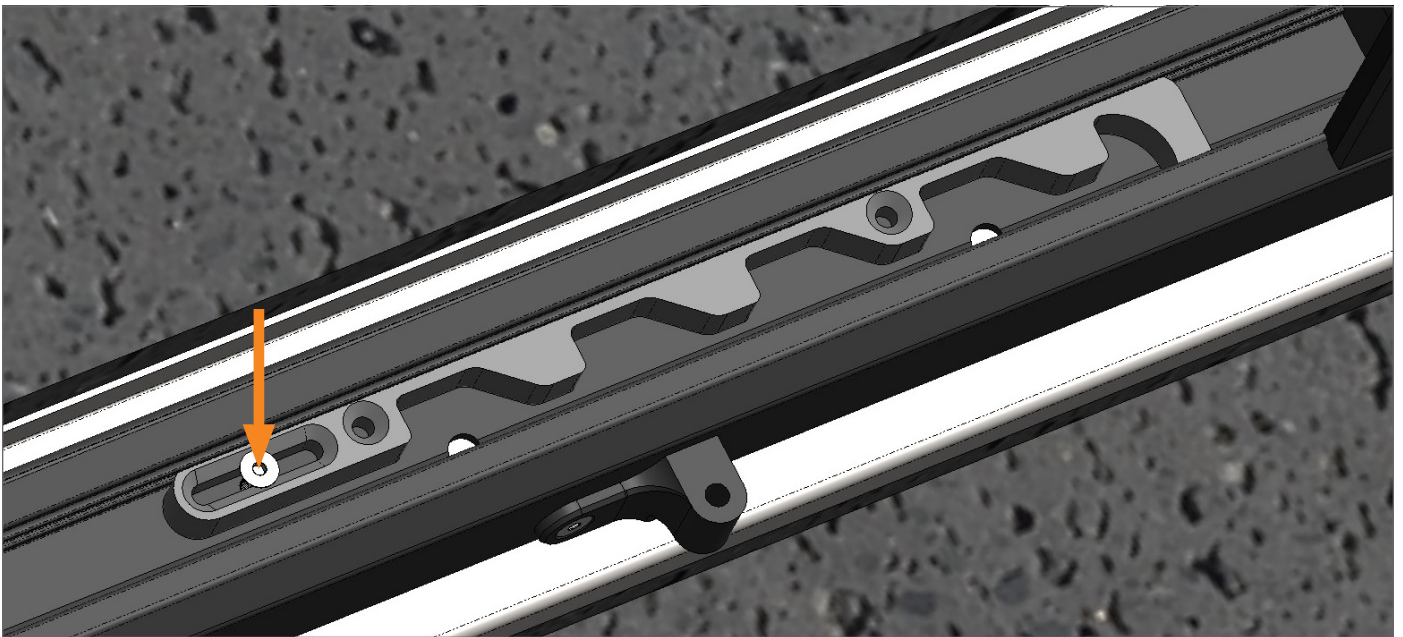
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### Step 5.1 : Check Lower Hinge

Confirm correct alignment and location of lower hinge.

Lower hinge should be factory set with set screw in center of adjustment slot.

If hinge has moved, loosen set screw and reposition in center, then retighten.



Lower hinge should be positioned with set screw in center of adjustment slot

## Phase 5: Daily Door Panel

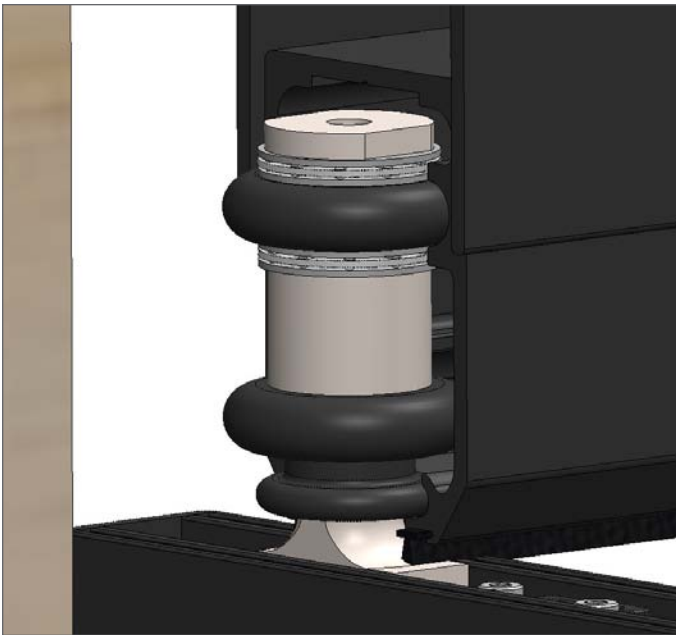
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### Step 5.2 : Place Panel into Tracks

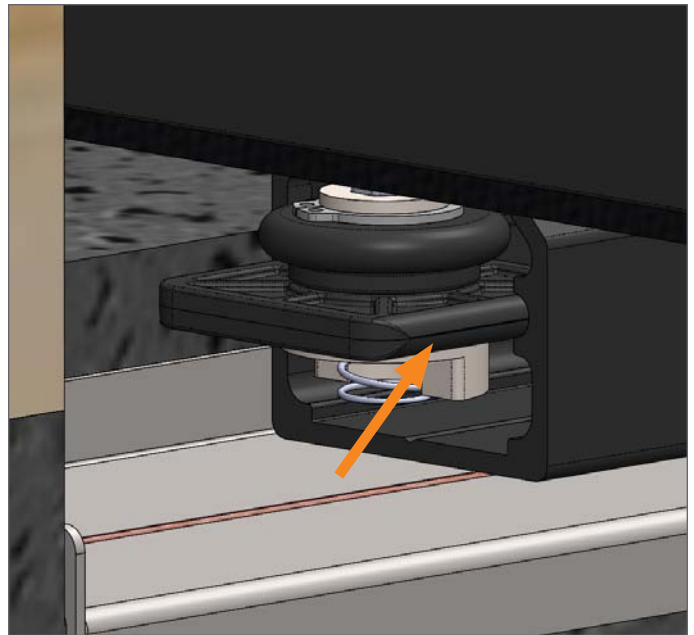
Stand panel up on exterior side of unit near the open end so it is perpendicular to the tracks with the pivot wheels closest to tracks.

Insert top pivot wheel into the open end of the Top Track and have a second person hold the wheel in the track approximately  $\frac{1}{2}$ " in from the end of the Top Track.

Have the first person pull down and align lower wheel and insert into Lower Track. Ensure the lower square wheel has rounded edge in track runner. The wheel will slide easily if aligned correctly.



Insert pivot wheel into open end of Top Track



Ensure round edge of lower wheel is in track runner

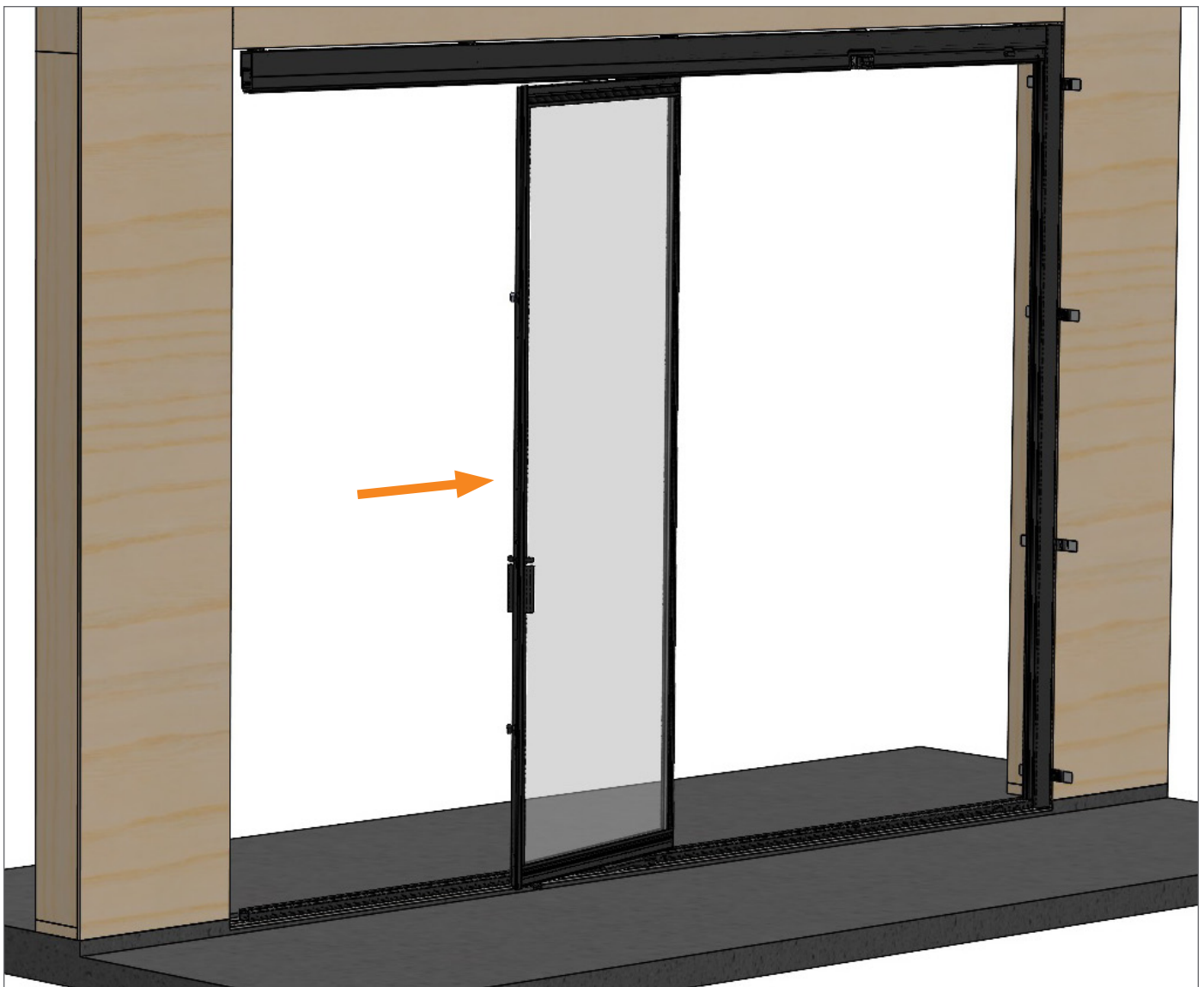
## Phase 5: Daily Door Panel

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### Step 5.3 : Slide Daily Door

Lifting up on the pull handle, slide the pivot side of the panel towards the hinge end of the Top Track.

Keep pivot wheels as close to plumb and the panel will move smoothly. Turn panel so it sits close to parallel with tracks as you slide it.



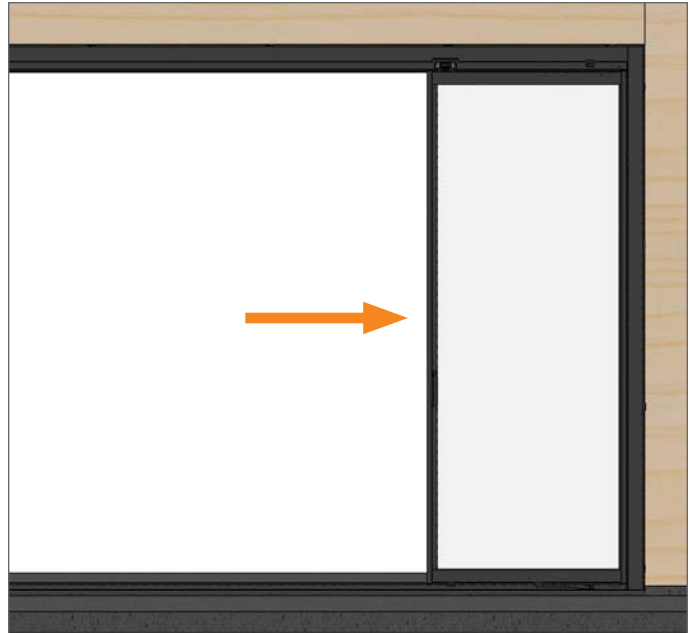
Slide Daily Door along track, keeping it close to parallel with the frame

## Phase 5: Daily Door Panel

### Step 5.4 : Position and Open Daily Door

Slide Daily Door all the way to hinge end and gently slide the lower pivot wheel into the lower hinge. Holding the panel in the plumb position, pivot open to 90 degrees. If resistance is felt at the top of the panel, the panel is pressed into side jamb too hard. If resistance is felt at the bottom of the panel, there is improper fitment between lower wheel and hinge.

End with door in open position, perpendicular to the frame.



Slide Daily Door to end of track



Open Daily Door to check fitment



Finish with door open, perpendicular to frame



## Phase 5: Daily Door Panel

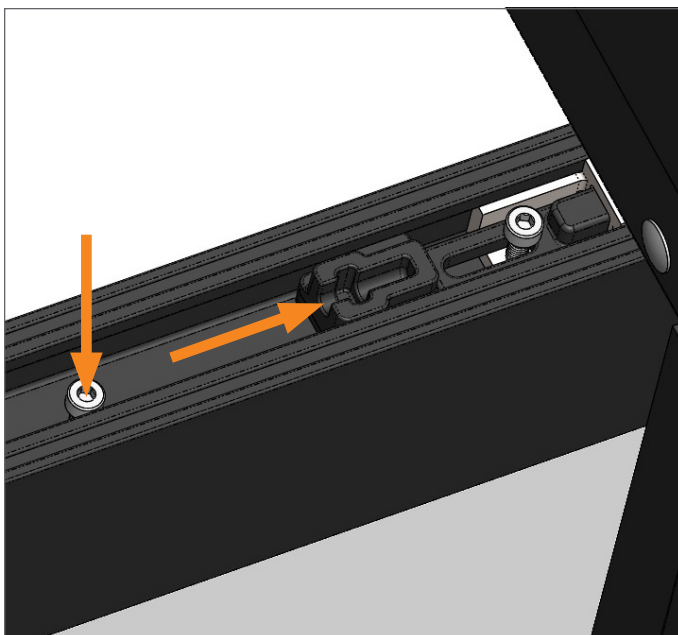
### Step 5.5 : Set Locator Pin

Align top wheel with the correct hole in hinge and press actuator in Daily Door top profile towards the track to fire the locator pin up into the top hinge. If the locator pin is in the correct hinge hole, there will not be any tolerance for the wheel to travel back and forth in the track. There should not be any slop between the locator pin and the hinge hole for the Daily Door panel.

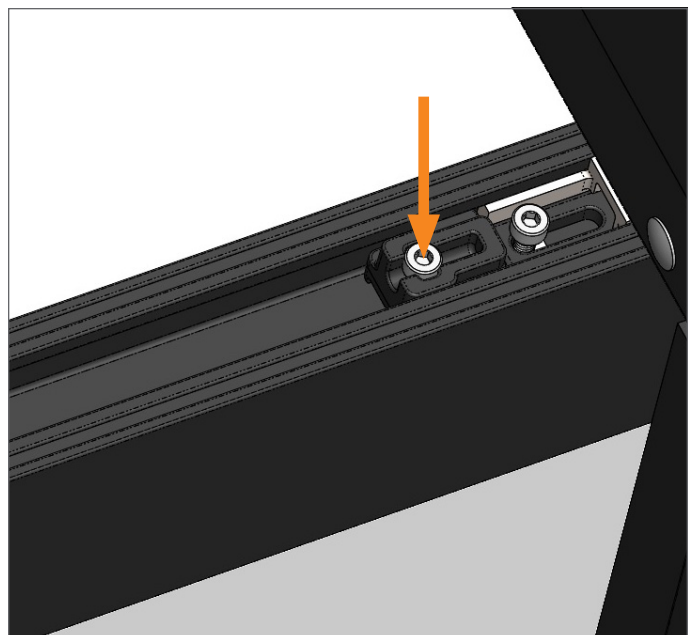
Once locator pin is in the correct hole and the actuator is pushed in to correct alignment use a 3mm Allen wrench to thread the set screw through the actuator and into the glazing profile. Use set screw that is pre-threaded into third hole beside actuator in top profile.



Hole for Top Wheel pin alignment



Press actuator and remove set screw



Secure with set screw stored in Panel frame

## Phase 5: Daily Door Panel

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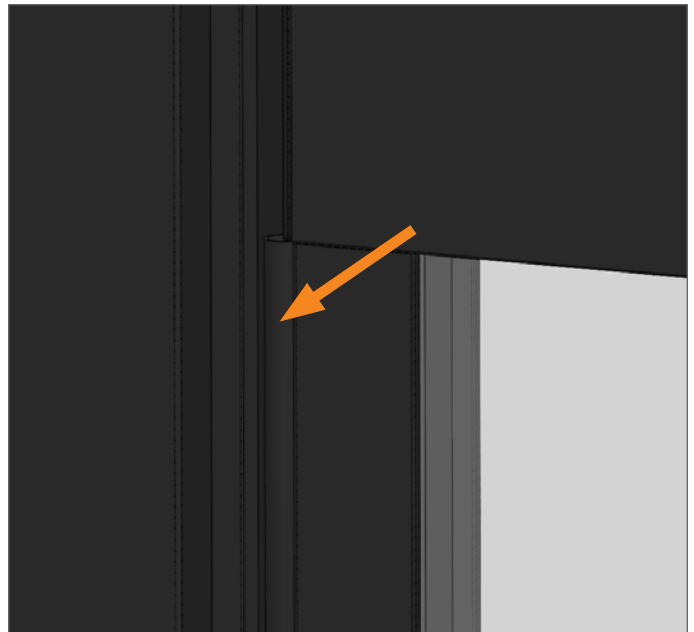
### Step 5.6: Operate Daily Door

Close Daily Door and ensure that there is no movement in the locator pin while opening and closing motion. If pivot wheel moves when the door is operated, repeat Step 5.5 and align locator pin with correct hole in hinge.

Check bulb seal contact to inner side jamb. These seals should be barely touching while panel pivots and should compress slightly as the door closes.



Close Daily Door to check operation



Open Daily Door to check fitment of bulb seals

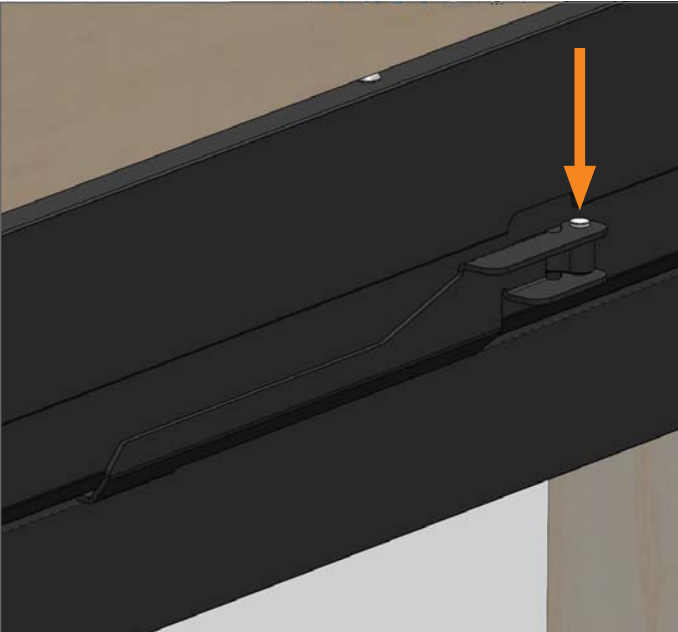


# Phase 5: Daily Door Panel

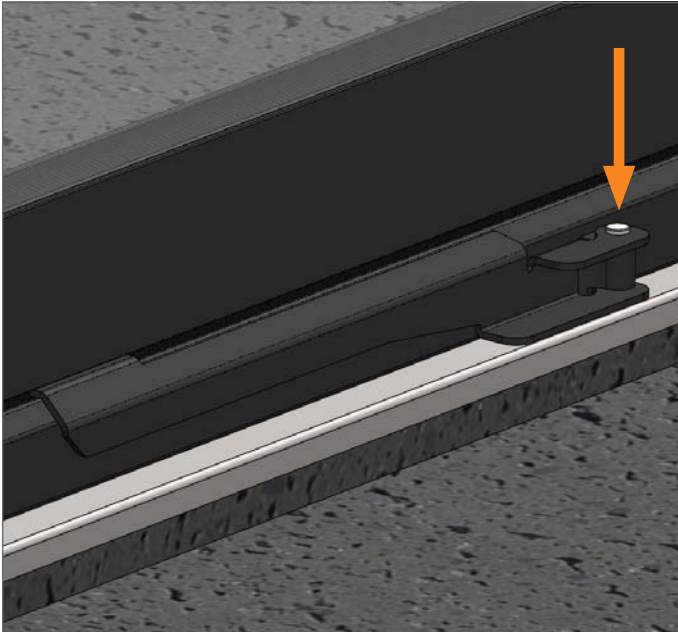
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## Step 5.7: Connect Door Holder Arms

Connect Door Holder Arms by aligning the hole in the Door Holder with the bracket on the Top Track and securing with a pin. Do this for both the upper and lower Door Holder.



Secure upper Door Holder arm with pin



Secure lower Door Holder arm with pin

## Phase 5: Daily Door Panel

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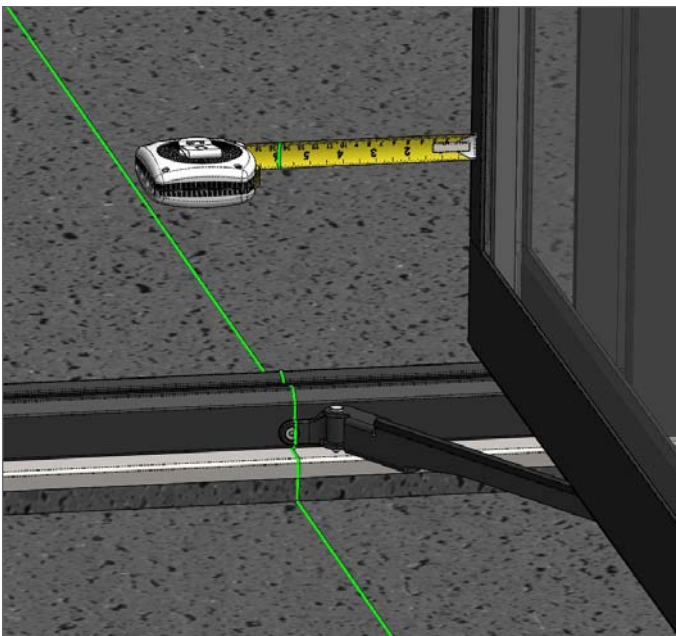
### Step 5.8 : Plumb Daily Door

Set Daily Door in the open position and ensure it sits at 90 degree angle to the track. Brace the handle side of the panel to hold in static position. Ensure the handle side of this panel cannot move while performing plumb adjustments.

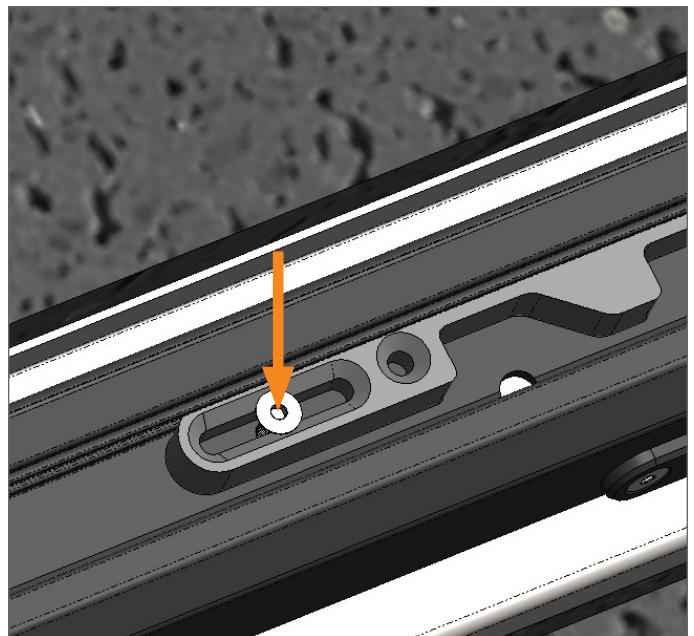
Set laser facing the tail end of the Daily Door and measure to the laser line with the end of the tape measure directly above the center of the wheels. Make sure the lower wheel sits tight against the lower hinge when taking measurements. Using a 2.5mm T-Bar Allen wrench, adjust the lower hinge until the panel sits plumb.

**This Daily Door panel sitting out of plumb will affect every other panel, as well as affect Top Track alignment, etc.**

Once panel is plumb, open and close the door then check for plumb again. Adjust as necessary.



Check Daily Door for plumb up and down the frame



Loosen set screw and adjust hinge to achieve plumb

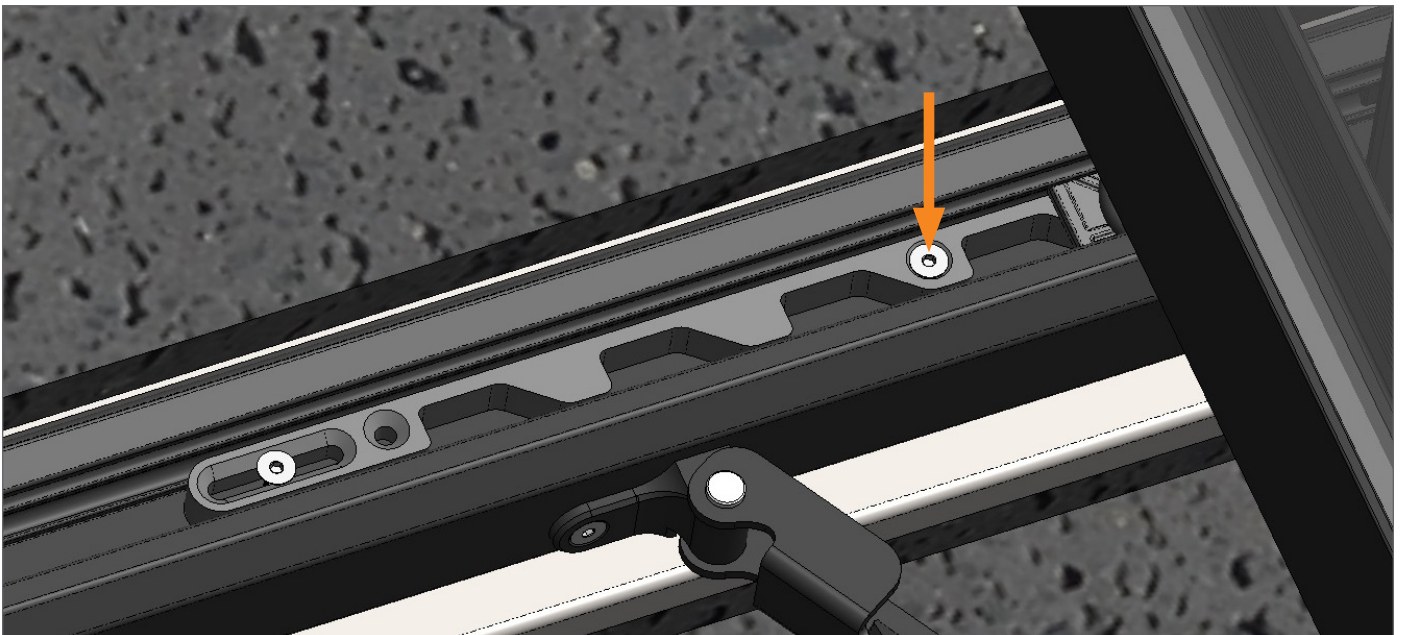
## Phase 5: Daily Door Panel

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### Step 5.9 : Secure Hinge

Once satisfied with the plumb of the door, add another screw to the lower hinge in the hole closest to the Daily Door.

Drill out hole location in Lower Track using a 9/64" bit and self tap lower hinge screw into place. Ensure lower hinge sits tight to Lower Track and flat head screw is fully seated into lower hinge.



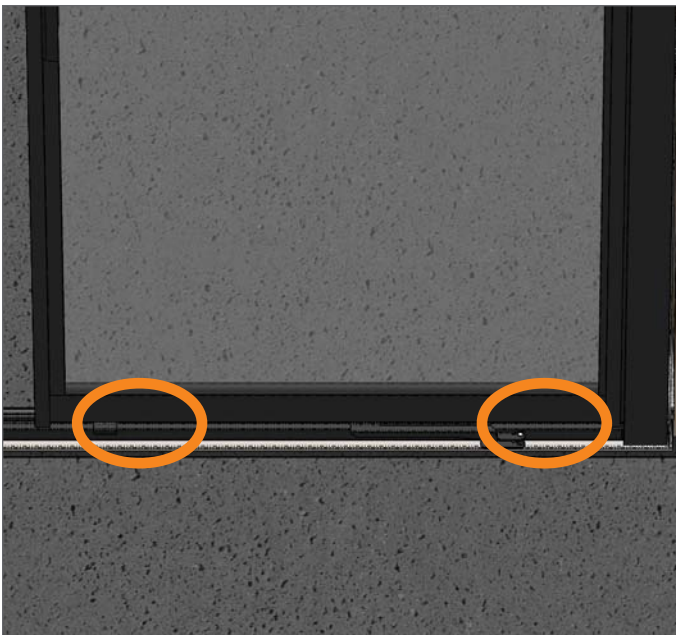
Secure hinge in plumb position with a second screw

## Phase 5: Daily Door Panel

### Step 5.10 : Check Lower Brush Seal Contact

Check lower brush seals to ensure proper 1/4" contact with panel in the closed position. Finned brush seal that sits on the flat side of the Lower Track should have contact but should not be compressed. Adjust upper track at hinge to raise or lower panel to get desired brush seal contact.

Document how many turns were made if adjustment is necessary (direction and number of turns)



Check brush seals at each end of Daily Door



Adjust adjusters at Daily Door, if necessary

#### Document Adjustment

Adjustment Turns:

Adjustment Direction:

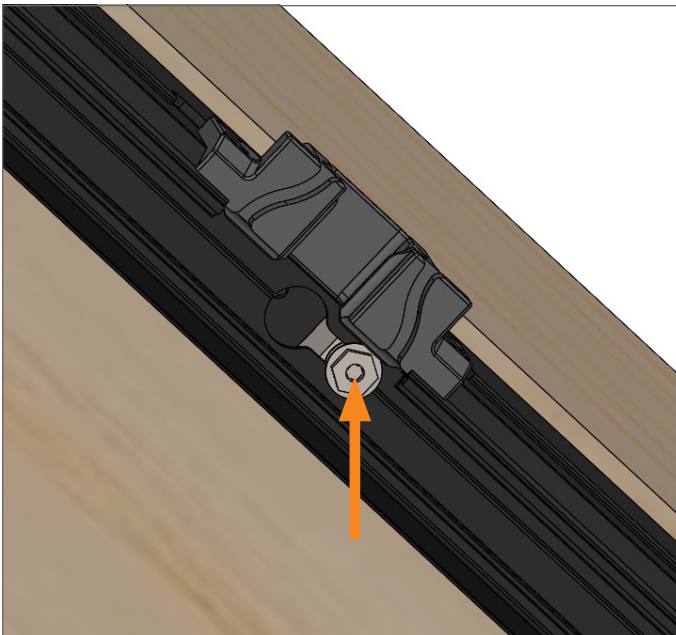
## Phase 5: Daily Door Panel

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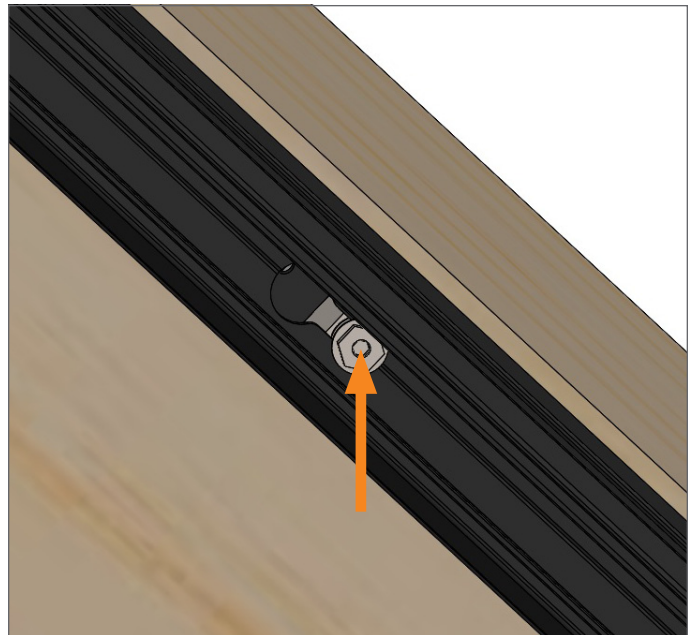
### Step 5.11 : Readjust Top Track (If Necessary)

If Top Track was adjusted to correct lower brush seal contact (in Step 5.10), duplicate the adjustment at each adjuster across the track to keep Top Track level and parallel with Lower Track.

Repeat adjustment turns and direction from Step 5.10.



Adjust all points if adjusting



Adjust all points if adjusting



## Phase 5: Daily Door Panel

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### Step 5.12 : Check Top Brush Seal Contact

Once lower brush seal is sitting correct and any Top Track adjustments are complete, check that the brush seals in the Upper Track are touching the top glazing profile of the Daily Door all the way when panel is closed. Ensure the reveal is consistent between panel and tracks on top and bottom.

If reveal is inconsistent, check Daily Door for plumb (Step 5.8) or adjust the Top Track (Step 5.10).



Check brush seal contact at both ends of Daily Door

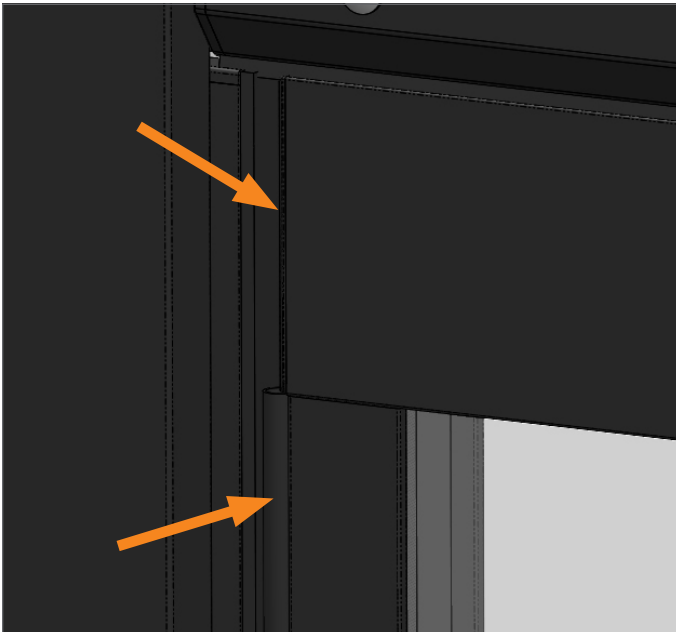
## Phase 5: Daily Door Panel

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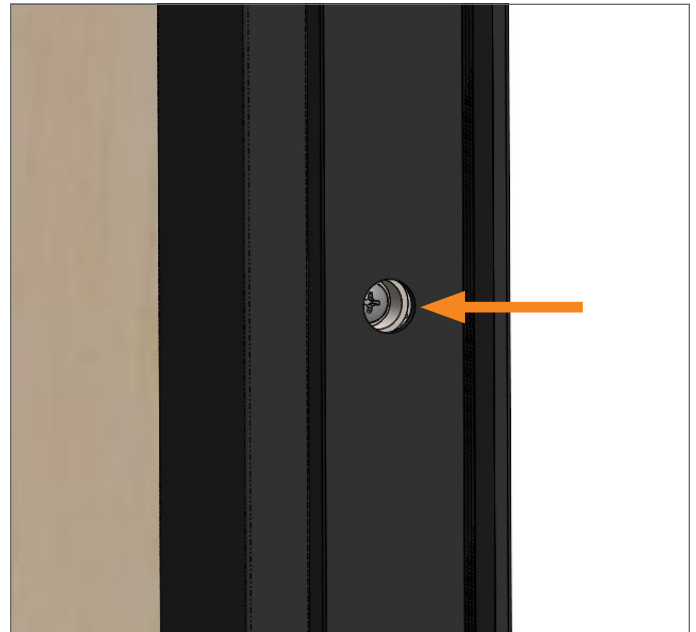
### Step 5.13 : Check Interior Side Jamb Reveal

With the Daily Door in the closed position, check the reveal between the Daily Door and the inner Side Jamb. Seals should touch but must not bind during Daily Door operation. Open the door and then using small ratchet with Phillips screwdriver bit, adjust inner side jamb at three points to accomplish proper reveal, closing the door to check as you go.

Ensure the flat panel end caps do not touch inner side jamb at any point during operation.



Inspect bulb seals and check end caps



Adjustment screws on inner Side Jamb

## Phase 6: Sliding Panels

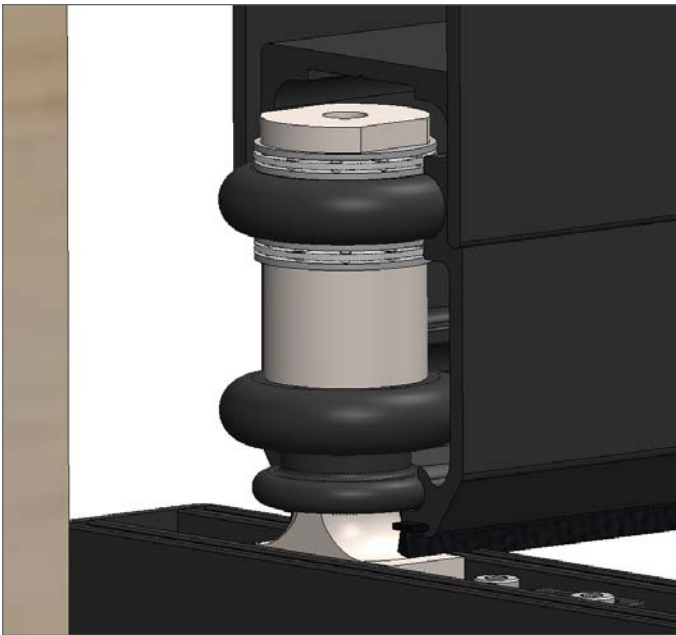
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### Step 6.1 : Place Panel #2 into Tracks

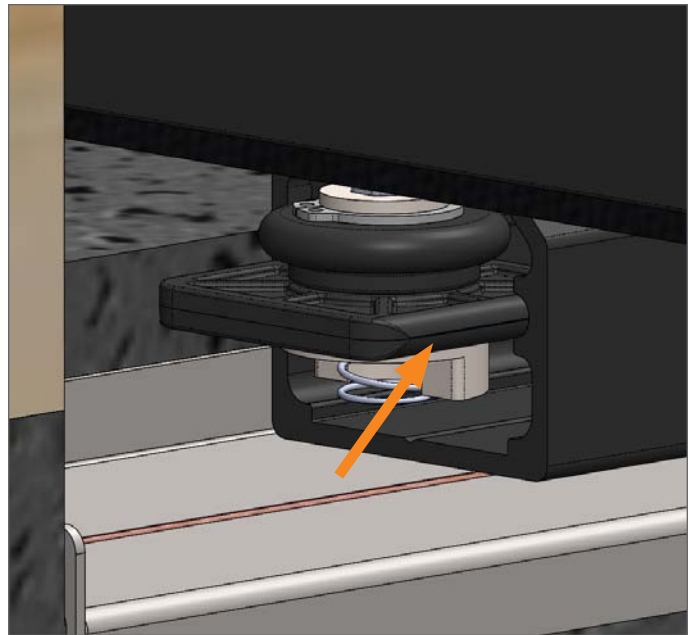
Stand panel up on exterior side of unit near the open end so it is perpendicular to the tracks with the wheels closest to tracks.

Insert top pivot wheel into the open end of the Top Track and have one team member hold the wheel in the track approximately ½” in from the end of the Top Track.

Have a second member pull down and align lower wheel and insert into Lower Track. Ensure the lower square wheel has rounded edge in track runner. The wheel will slide easily if aligned correctly.



Insert pivot wheel into open end of Top Track



Ensure round edge of lower wheel is in track runner



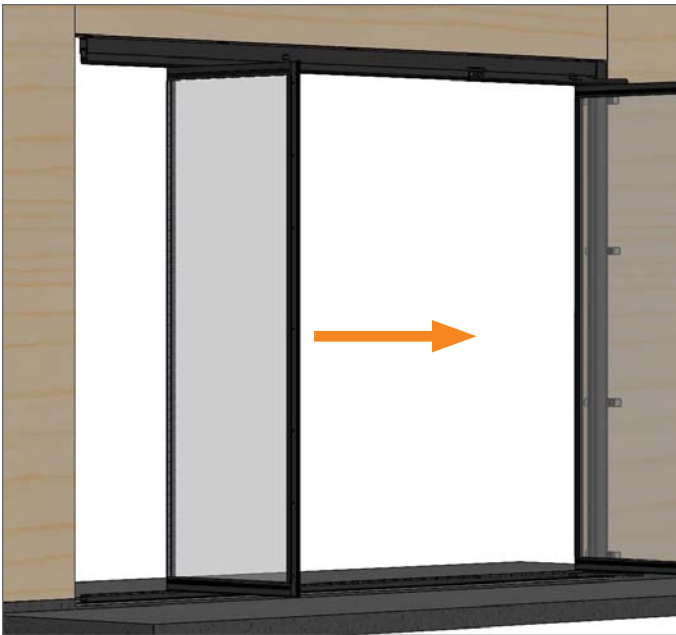
## Phase 6: Sliding Panels

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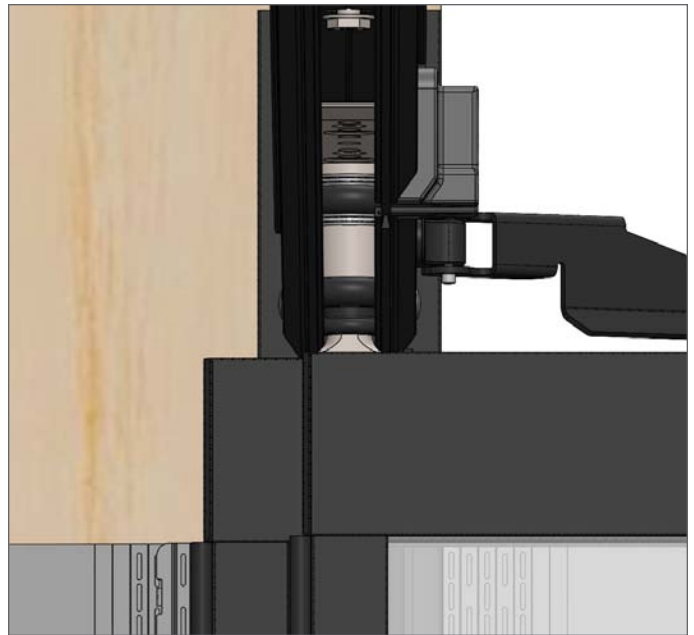
### Step 6.2 : Slide Panel #2

Once lower wheel is correctly aligned and pushed into the Lower Track, slide the pivot wheels toward the Daily Door while swinging the panel closer to the closed position. Lifting up on the front of the panel so the panel sits plumb, slide the panel until the pivot wheels contact the Daily Door.

This sliding operation should be smooth. If the door is hard to move the wheels may not be in the correct position in the tracks, or the track gap adjustment may be incorrect. If panel feels tight, check lower brush seal contact- if brush seal is high or low, adjust Top Track until panel moves easily.



Slide Panel #2 along track, keeping it plumb



Finish with Panel #2 against the Daily Door

## Phase 6: Sliding Panels

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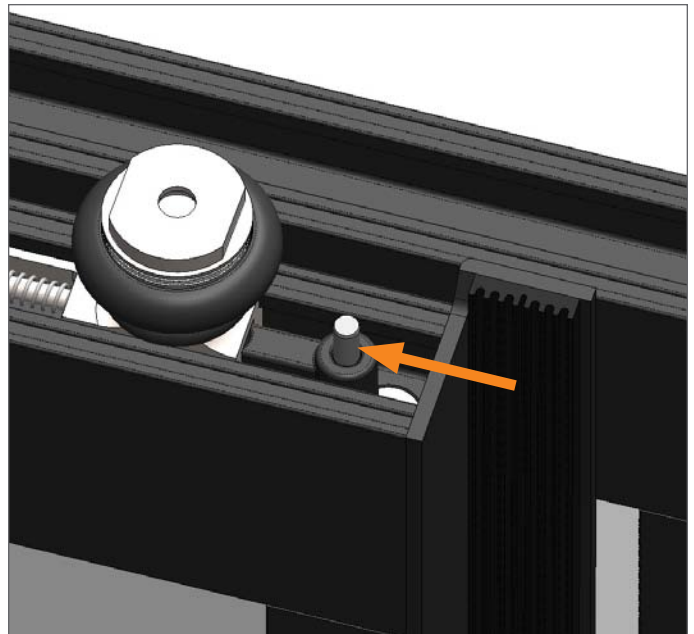
### Step 6.3 : Set Panel #2 Locator Pin

Once this panel stops against the Daily Door, ensure the top wheel is pushed tight to the Daily Door and cycle the top clicker by pushing the top actuator pin towards the front wheel. Once actuator fires and locator pin fires up, the door should hold while pivoted to the open position.

If clicker does not function correctly, or locator pin does not hold the door, check the hole for the Top Wheel pin.



Hole that Top Wheel pin should align with



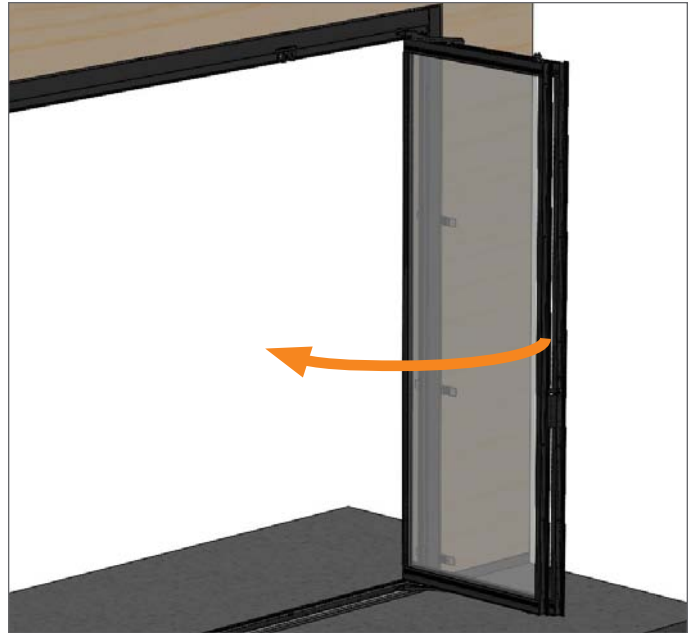
Press actuator to fire locator pin

## Phase 6: Sliding Panels

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### Step 6.4 : Test Run Panel #2

Swing panel closed into track to check function of the wheel guide and clicker. Cycle at least 10 times. If operation is not smooth, assess and diagnose by adjusting Top Track height, or moving upper or lower hinge. Issues could include improper wheel placement, hinge placement, etc.



Test Panel #2 by opening and closing

Once panel operates correctly through wheel guide, slide the panel through the entire system. Check for smooth operation and adjust track as necessary. Ensure proper brush seal contact across entire width.



Test Panel #2 by sliding in track

# Phase 6: Sliding Panels

---

## Step 6.5 : Stack Panel #2

Once panel slides properly and pivots smoothly, slide Panel #2 up to the Daily Door, open, and leave in stacked position.



Slide Panel #2 back and leave in open, stacked position

# Phase 6: Sliding Panels

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## Step 6.6 : Install Remaining Panels

Following Steps 6.1 through 6.5 for all remaining panels in the system. As panels are put into the stack, remember to cycle all panels a minimum of 10 times.



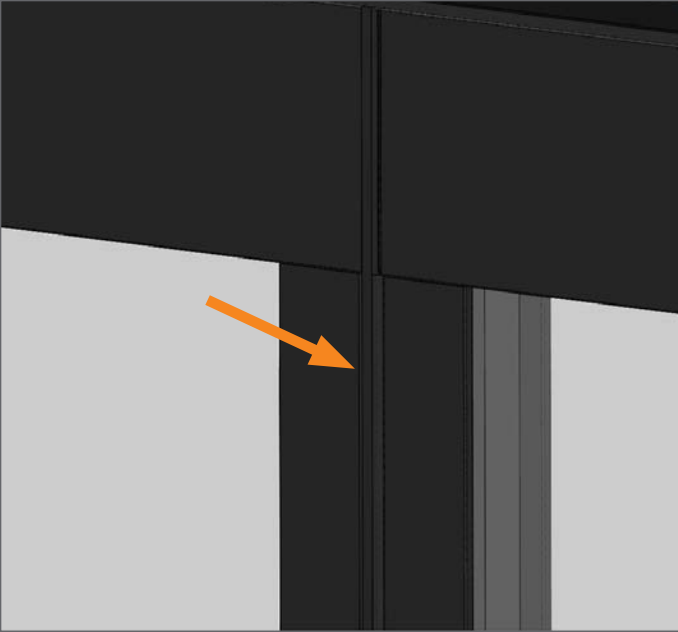
Install all remaining Panels

# Phase 6: Sliding Panels

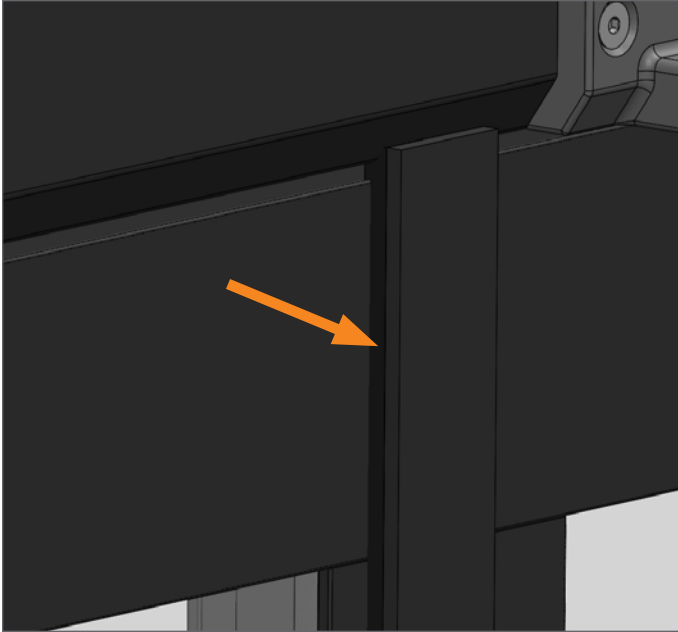
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## Step 6.7 : Inspect All Seals

With Daily Door and all Panels in the closed position, visually inspect all bulb seals and Trim-Lok seals for consistent contact



Visually inspect all bulb seals

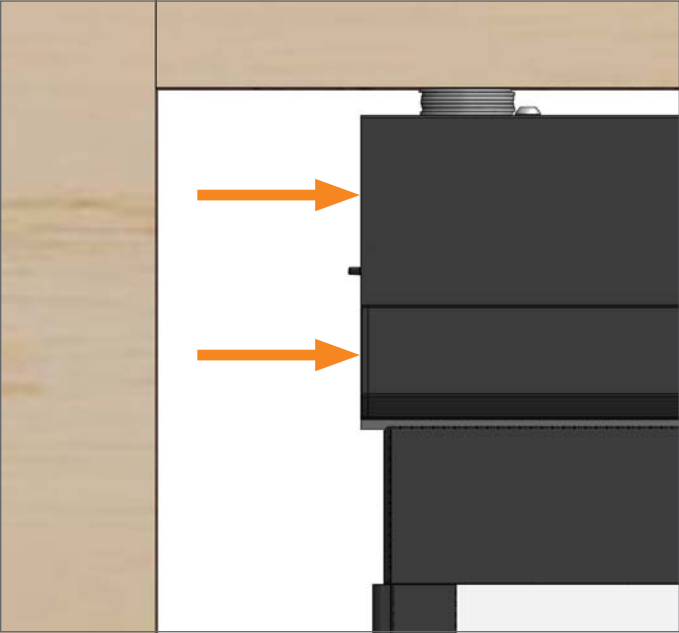


Visually inspect all Trim-Lok seals

# Phase 7: Final Side Jamb

## Step 7.1 : Check Top Track Alignment

Place the reserved Top Track End Cap in place on the Top Track and confirm that Top Track End Cap sits flush with end of Upper Channel. If it does not align, contact Service Department.



Check Top Track Alignment

## Phase 7: Final Side Jamb

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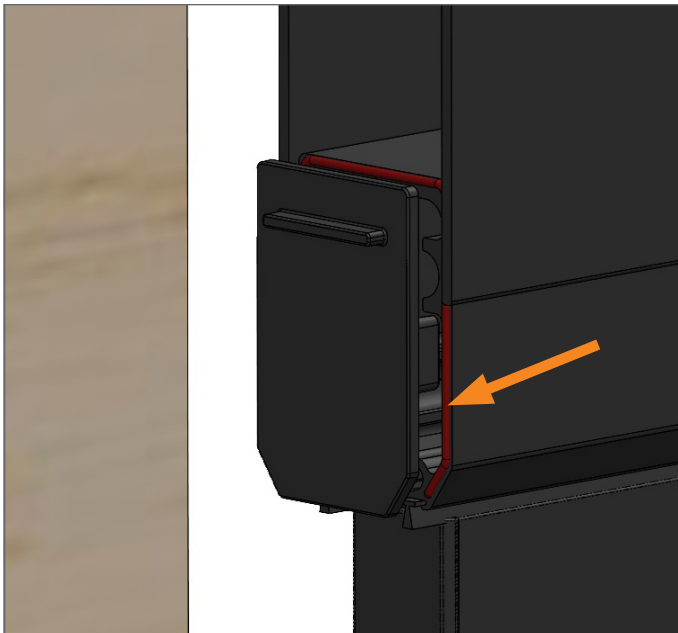
### Step 7.2 : Replace and Seal Far-Side End Caps

Using silicone sealant, seal the far Top Track End Cap to the track and ensure sealant pushes out on all three sides. Clean up excess on visible sides.

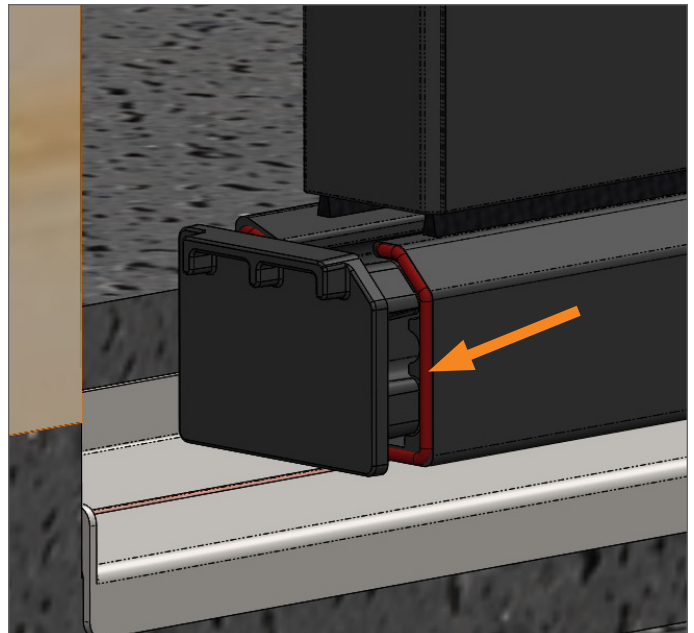
Repeat process for the far Lower Track End Cap. Ensure that sealant pushes out on all three sides. Clean up excess on visible sides.

### ATTENTION

Do not skip this step. If this step is not completed correctly, you are unable to seal the End Caps later!



Fully seal Top Track End Cap



Fully seal Bottom Track End Cap



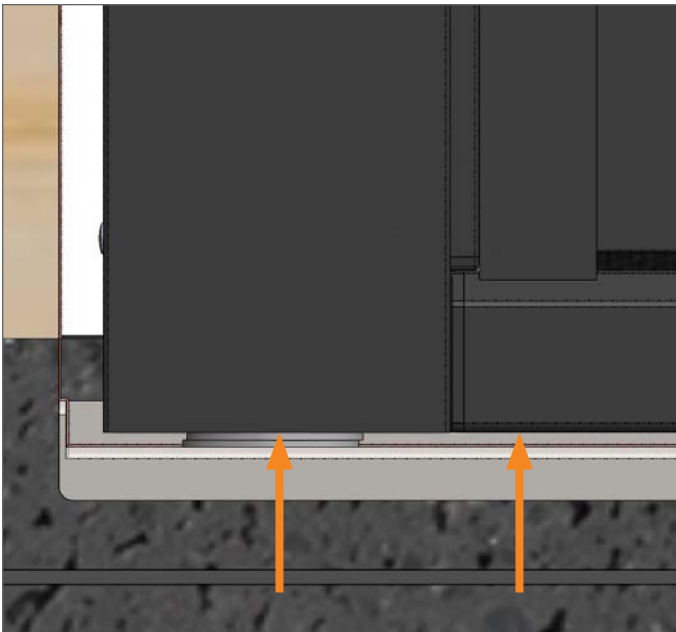
## Phase 7: Final Side Jamb

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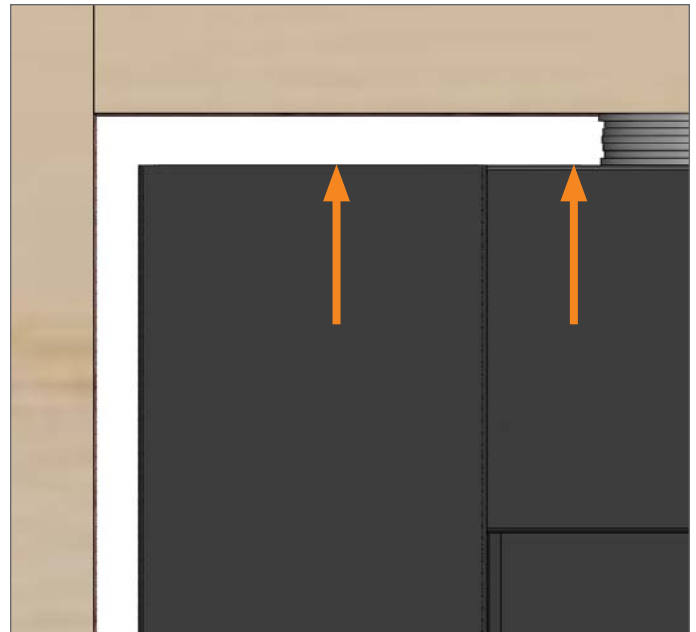
### Step 7.3 : Place Side Jamb and Check Height

Matching the shims used for the last fastener in Lower Track, set a shim stack for Final Side Jamb to sit on. Setting the Side Jamb on top of the shim stack, double check that the top of the Side Jamb sits flush with the top of the Upper Channel.

If all tracks and side jambs are plumb, level and square the side jamb should be flush with the bottom of the Lower Track as well as the top of the Upper Channel.



Shim Side Jamb flush with the Lower Track



Shim Side Jamb flush with the Lower Track

## Phase 7: Final Side Jamb

---

### Step 7.4 : Fully Shim Side Jamb

Using composite wedge shims, press shims from the interior and exterior side to press the side jamb tight to the tracks. Start with the top and the bottom fastener locations. Place top shims above top screw location. Place bottom shims below bottom screw location. Adjust the shims to ensure tight fit to tracks at both interior and exterior sides of both tracks. Adjust twist setting of side jamb as necessary with tapered shims. There should be no light visible through the joints.

Place top shims above top screw location and bottom shims below bottom screw location. In the next step, as you tighten the screw the lever action will provide a tighter joint between the Side Jamb and Top and Bottom Tracks



Shim Side Jamb against with the Lower Track



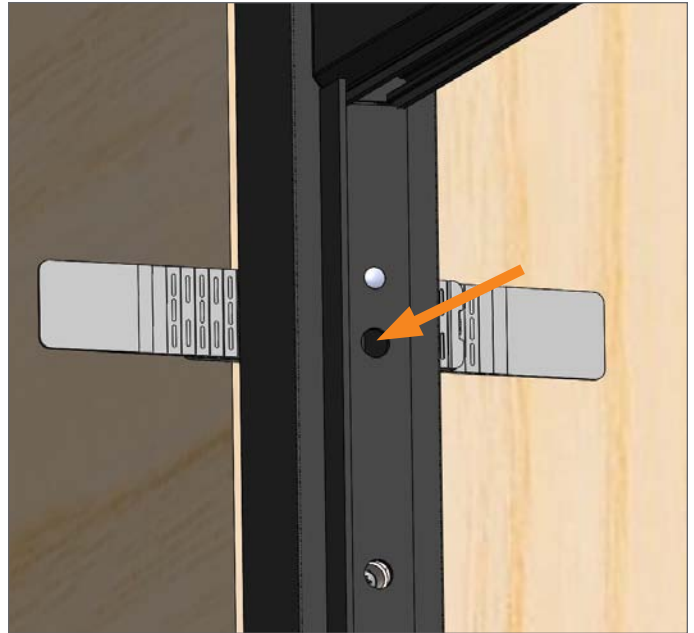
Shim Side Jamb against the Upper Channel & Top Track

## Phase 7: Final Side Jamb

### Step 7.5 : Fasten Side Jamb

Run all fasteners through supplied holes in side jamb and make sure they are centered on snapped line. Tighten fasteners at top and bottom first. After screws are tightened, check joints between Side Jamb and Tracks again to make sure they remain tight.

Once top and bottom fasteners are tight, check straightness of Side Jamb with a laser, adjust shims as needed, and tighten middle fasteners.



Secure top and bottom fastener



Check joint between Side Jamb and both Tracks

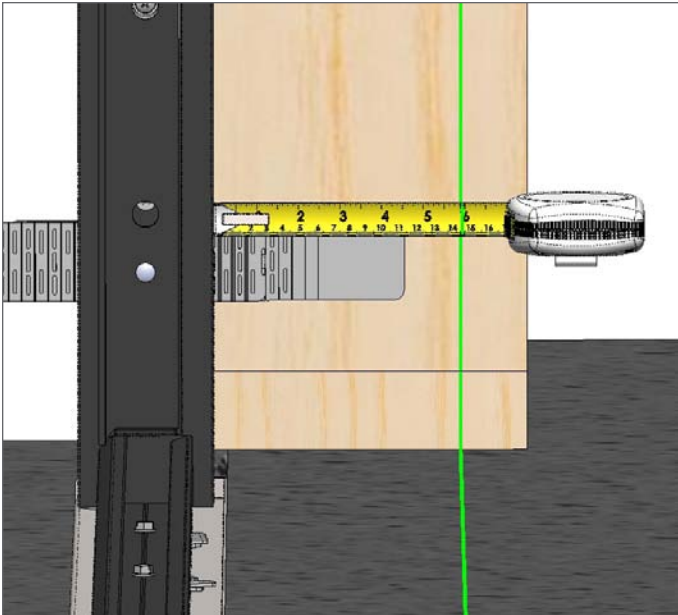
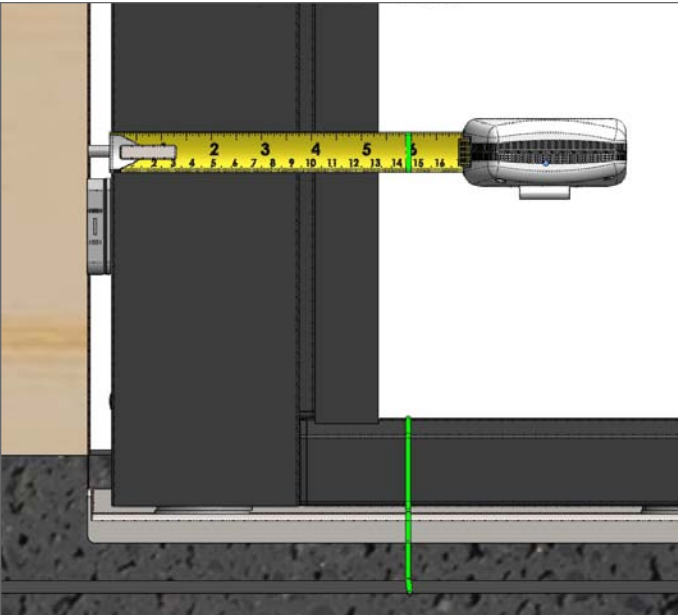
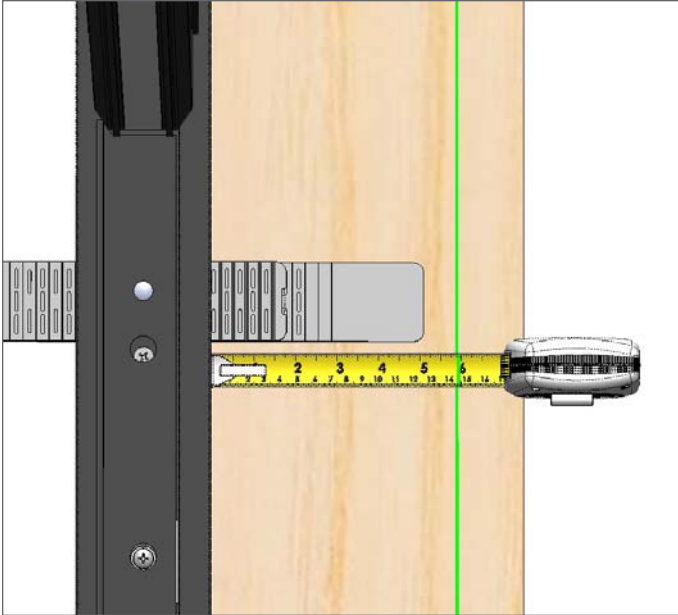
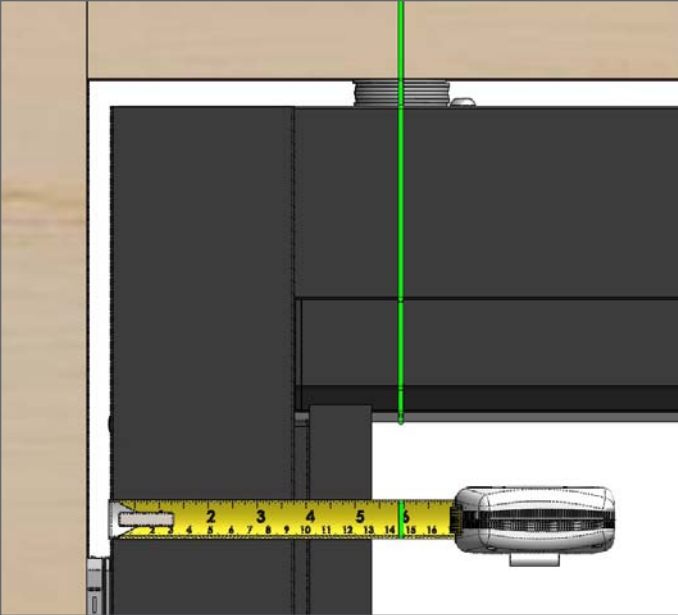


Check straightness with laser level and shim to adjust

# Phase 7: Final Side Jamb

## Step 7.6 : Check for Plumb

Check Side Jamb for plumb in both directions at top and bottom. If Side Jamb is out by more than 1/4", call our Service Department.



# Phase 8: Final Adjustments

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## Step 8.1 : Close All Panels

Pivot Sliding Panels to closed and slide along track until all Panels are in the track. If any major issues, please call our Service Department.

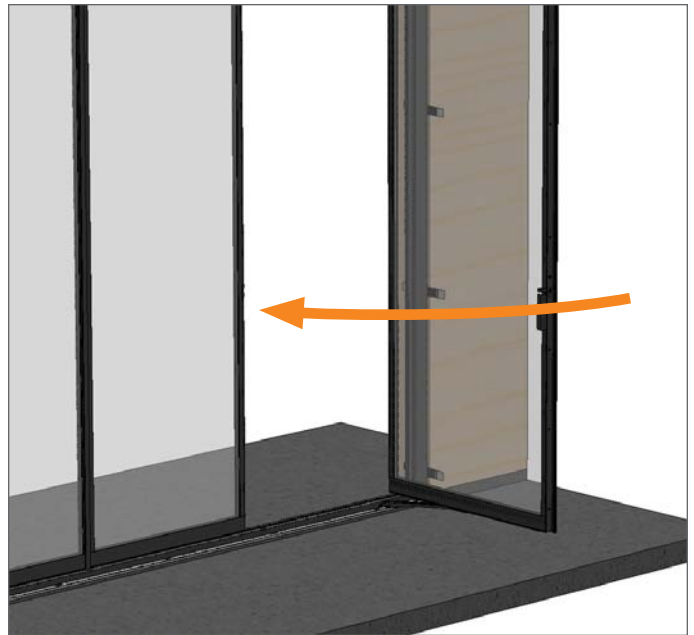


Close all Panels

# Phase 8: Final Adjustments

## Step 8.2 : Daily Door Fitment

Once all panels are closed and compressed, recheck function of Daily Door by closing it. If the Daily Door hits Panel #2, adjust far inner Side Jamb in and continue to press all Panels in that direction until the Daily Door swings closed.



Close Daily Door to check fitment



Adjust far Inner Side Jamb at adjustment points

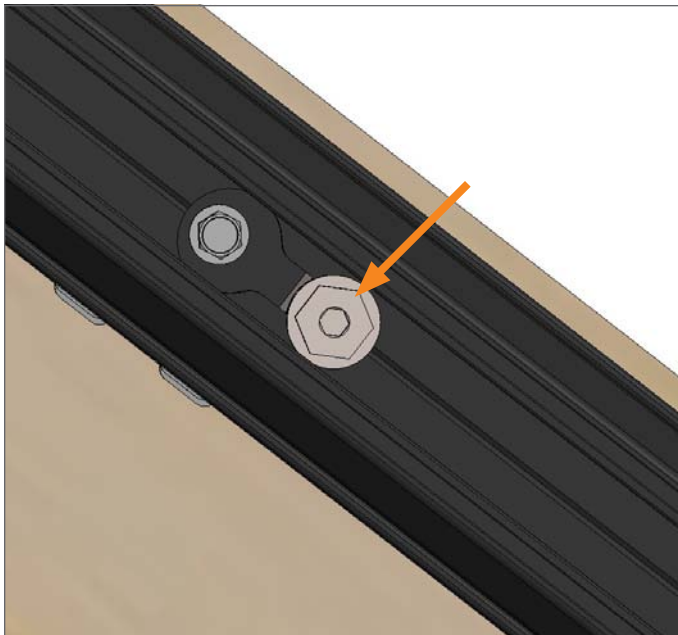


Once adjusted, all Panels and Daily Door close properly

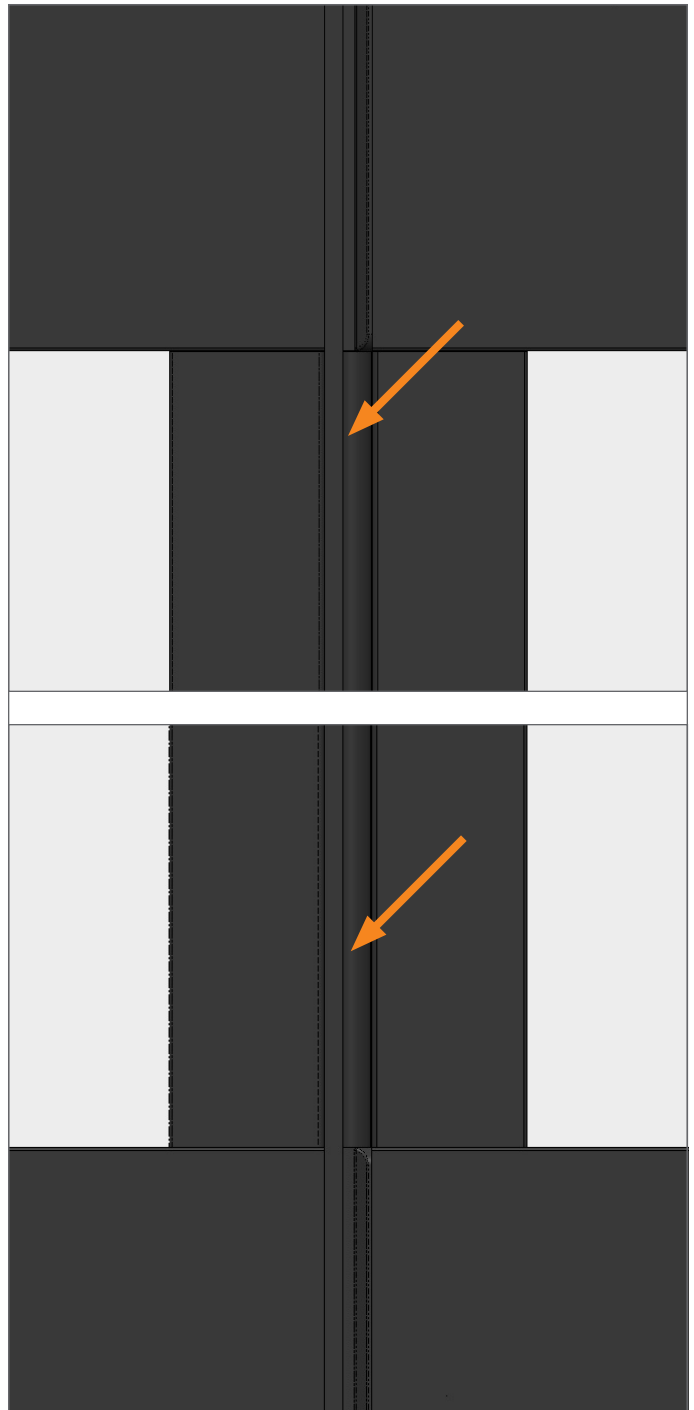
## Phase 8: Final Adjustments

### Step 8.3 : Panel Gaps

Starting at the Daily Door, check reveal between Daily Door and Panel #2. Check for reciprocal gaps between Panel #2 and Panel #3. Adjust Top Track as necessary to eliminate any reveal difference between top and bottom. Work to the far end of the system. If more than 1 full turn is required on any adjuster, check for correct brush seal contact on bottom - the Lower Track or/and Top Track may not be sitting level. Adjust the Top Track until all Panel gaps are consistent and all Panels hang parallel.



Adjust Top Track to adjust reveal



Compare reveal at top and bottom of each panel

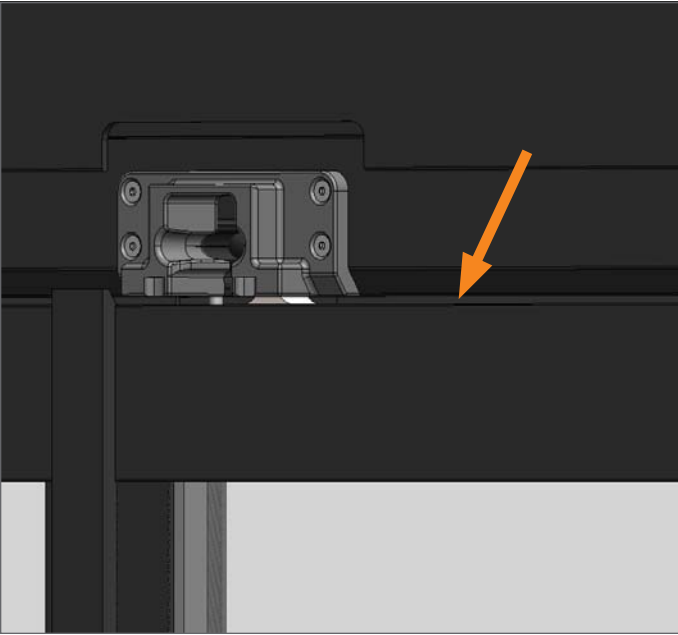
# Phase 8: Final Adjustments

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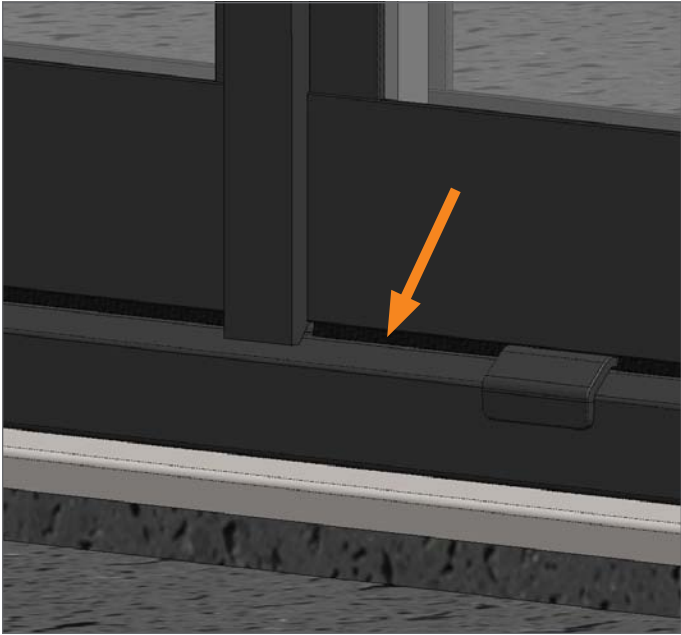
## Step 8.4 : Check Brush Seals

Check all brush seals to make sure there is no visible light between panels and tracks. Check both upper and lower seals.

If there is visible light, adjust the whole upper track up or down by the same amount.



Check top brush seal



Check bottom brush seal



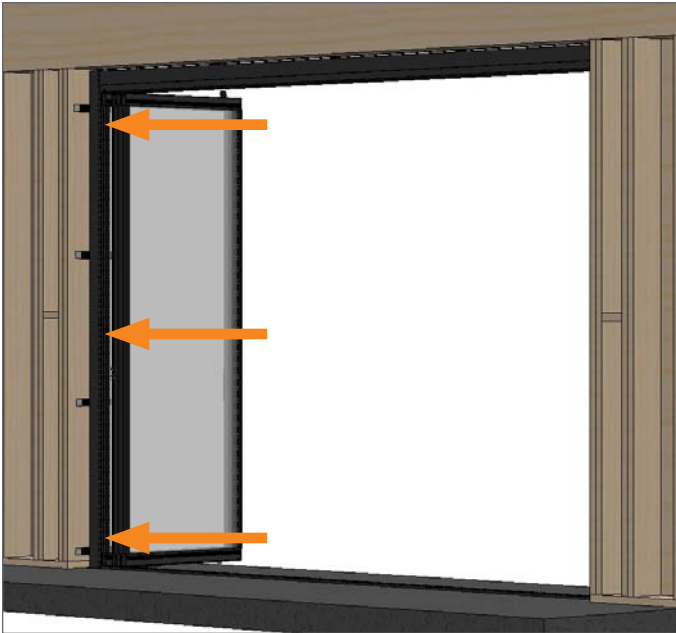
## Phase 8: Final Adjustments

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### Step 8.5 : Adjust for Daily Door Side Jamb for Proper Seal

Once all panels are sitting parallel and panel gaps are correct, adjust the far inner side jamb out until Daily Door seals properly to Panel #2 when all panels are compressed correctly. The bulb seals on panel #2 should provide some pressure on the Daily Door as it closes, but should not hinder the Daily Door from closing completely.

Set the system a bit tighter as the bulb seals will slightly compress over time and allow for more tolerance. When sliding panel #2 into place, you can slide it hard into panel #3 to ensure all panels are properly compressed.



Adjust three points for inner Side Jamb



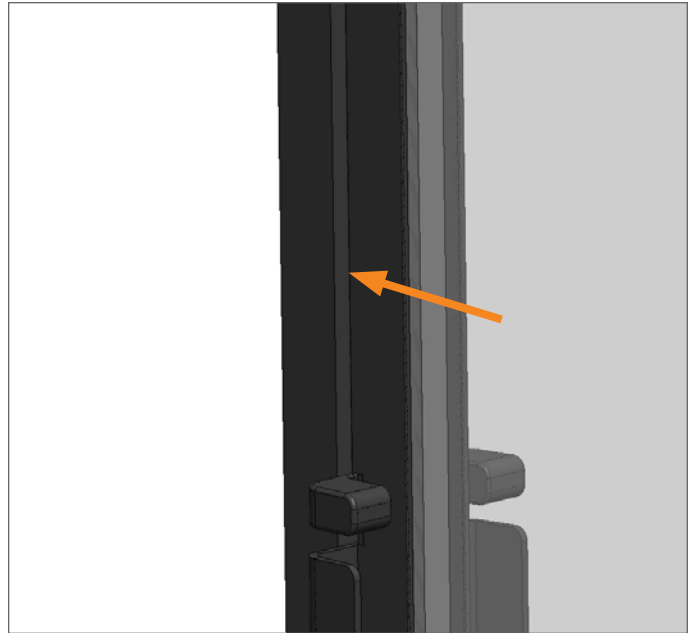
Adjust Side Jamb

# Phase 8: Final Adjustments

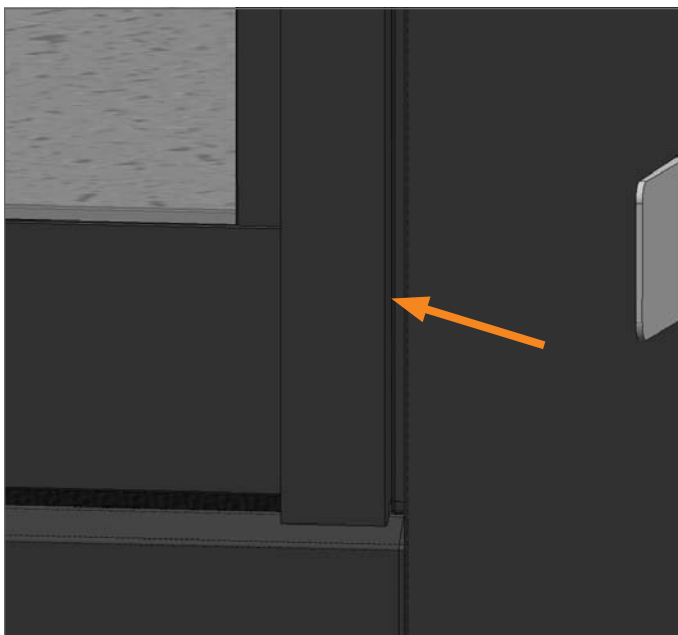
## Step 8.6 : Check Flashings

Check all flashing joints for visible light. Check the flashing on each Panel, on Daily Door, and on each Side Jamb.

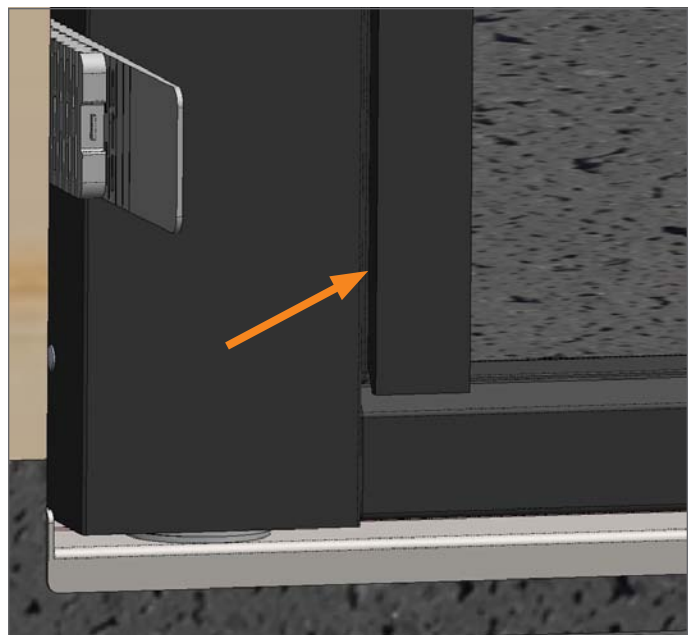
Any questionable seal should be addressed with a solid bead of silicone sealant on outside corner between flashing and panel.



Check Daily Door and all Panel flashing joints



Check flashing joint on Side Jamb - Daily Door-side



Check flashing joint on Side Jamb - Far-side

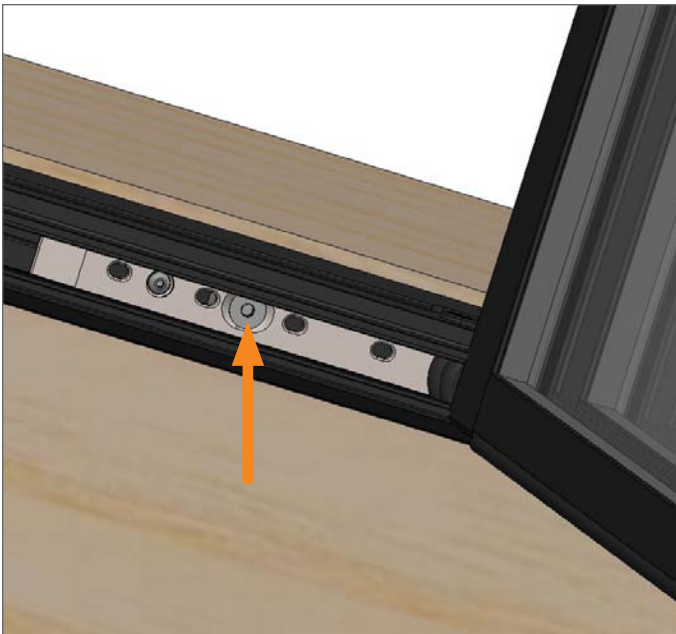
## Phase 8: Final Adjustments

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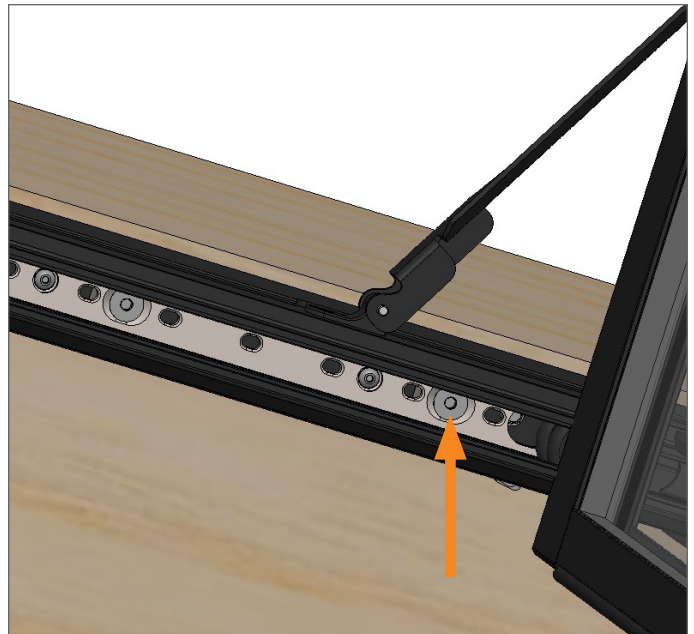
### Step 8.7 : Apply Threadlocker to Hinge Adjuster Bolts

Remove the adjuster bolt in the hinge that is the closest to the opening hole (if there is one installed) Apply threadlocker to the adjuster bolt and re-install until snug with the hinge. Take care not to overtighten this adjuster and raise the upper track.

Repeat with second track adjuster bolt by sliding Panels to reveal bolt. Apply threadlocker to the adjuster bolt and re-install until snug with the hinge, taking care not to overtighten the adjuster and raise the upper track.



Apply threadlocker to outer hinge adjuster bolt



Apply threadlocker to inner hinge adjuster bolt

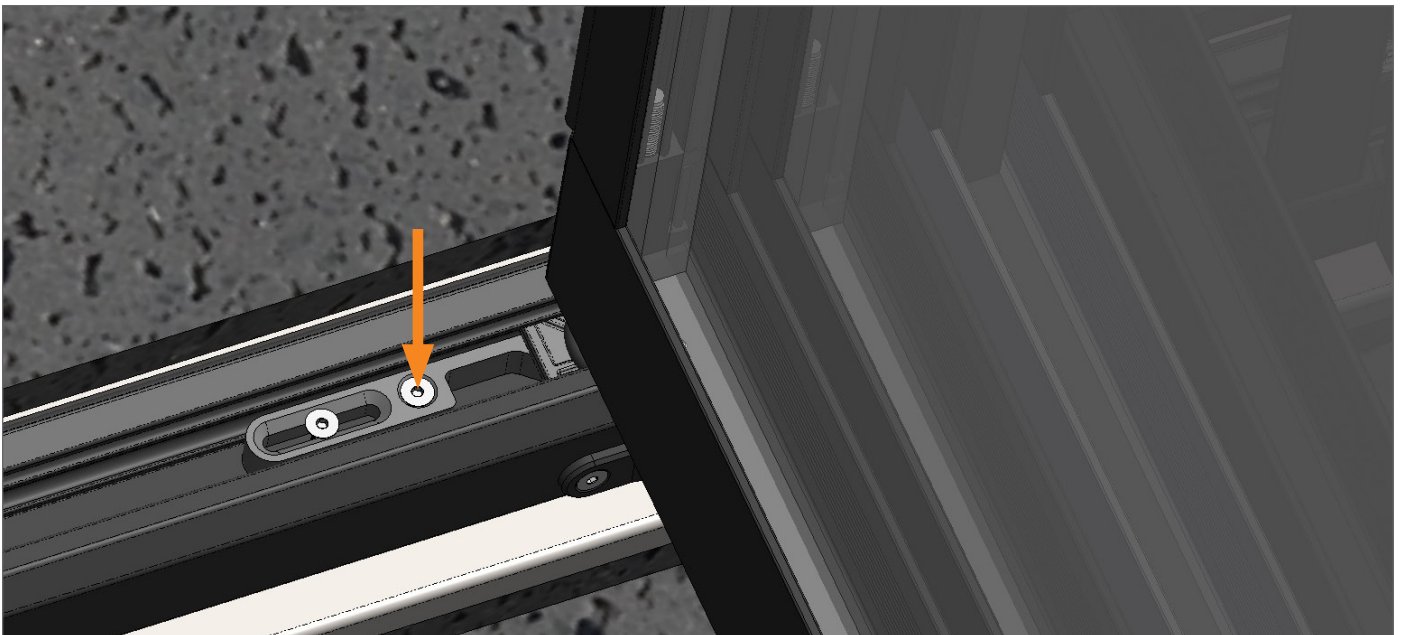
## Phase 8: Final Adjustments

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### Step 8.8 : Finalize Hinge

Once satisfied with all adjustments add a final screw to the lower hinge in the hole closest to the adjustment slot.

Drill out hole location in Lower Track using a 9/64" bit and self tap lower hinge screw into place. Ensure lower hinge sits tight to Lower Track and flat head screw is fully seated into lower hinge.



Finalize hinge position with another screw in hinge

## Phase 9: Final Finishing

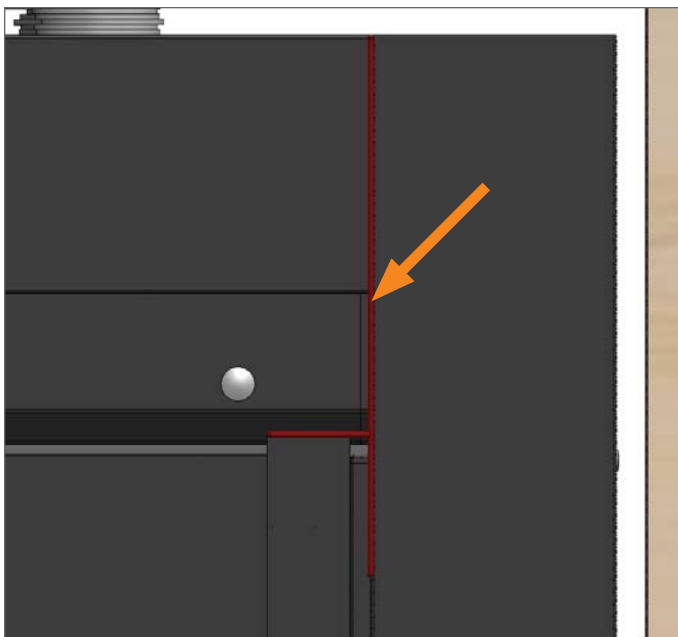
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### Step 9.1 : Silicone Track Joints

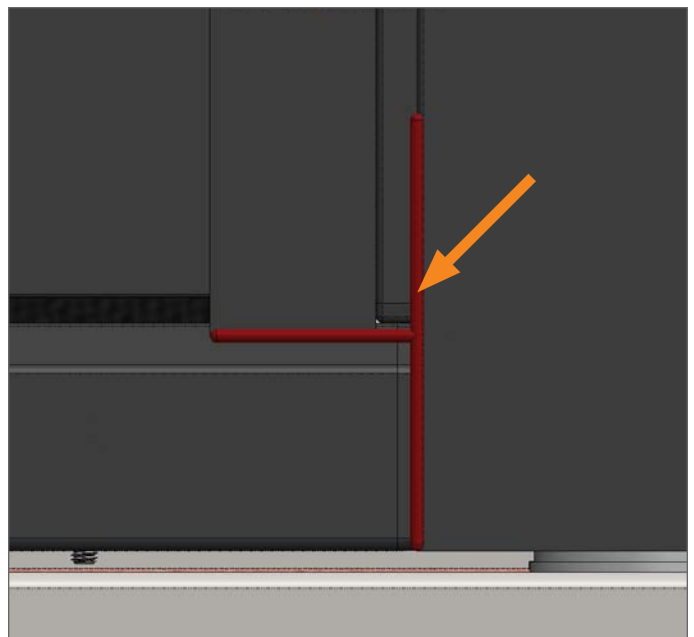
Tape off and silicone track to side jamb joints and track to side jamb flashing joints.

Silicone the exterior and interior sides of upper and lower joints.

Repeat for both Side Jambs.



Seal top joints as shown



Seal lower joints as shown

At this point there should be zero visible light through the unit from interior to exterior. No visible light allowed at any place on the system. Any light should be addressed and solved by adding silicone or by doing track adjustments. Contact Service Department with any issues.

# Phase 9: Final Fishing

## Step 9.2 : Rivet Flashing to Frame

Align flashing parts to the holes on the Side Jamb and Upper Channel. Use rivets to secure the flashings in place, all around the perimeter.

There are two options for flashing, A and B. Option A is closer set to the frame, whereas Option B extends out further.



Use rivets to secure flashing



Flashing Option A



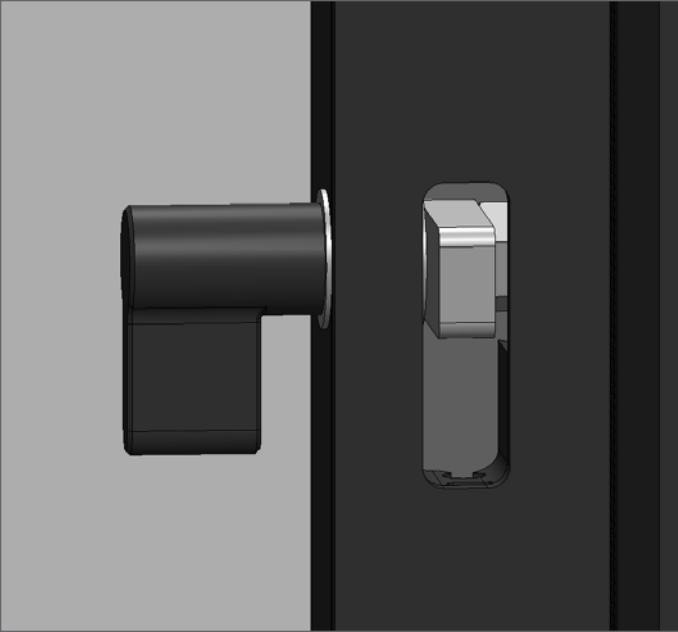
Flashing Option B

# Phase 9: Final Finishing

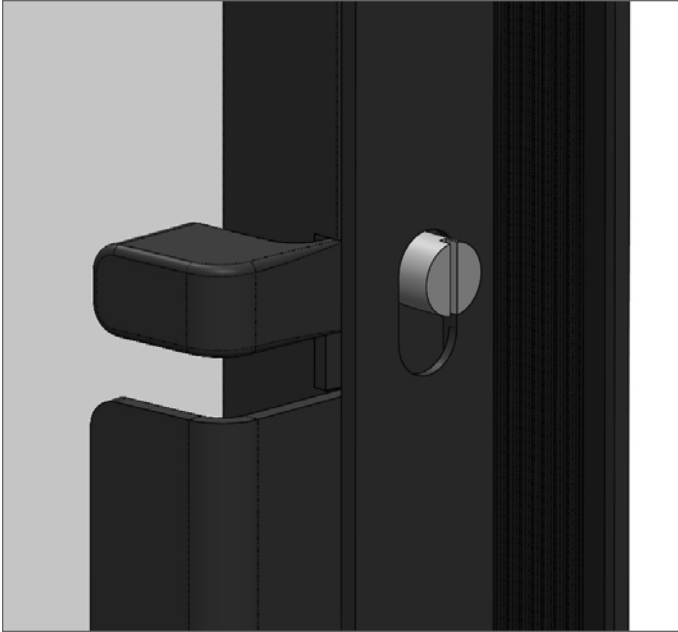
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## Step 9.3 : Check Lock/Latch Function

Check thumb-turn/keyed lock/latch/multi-point for proper function.



Check locks for proper function



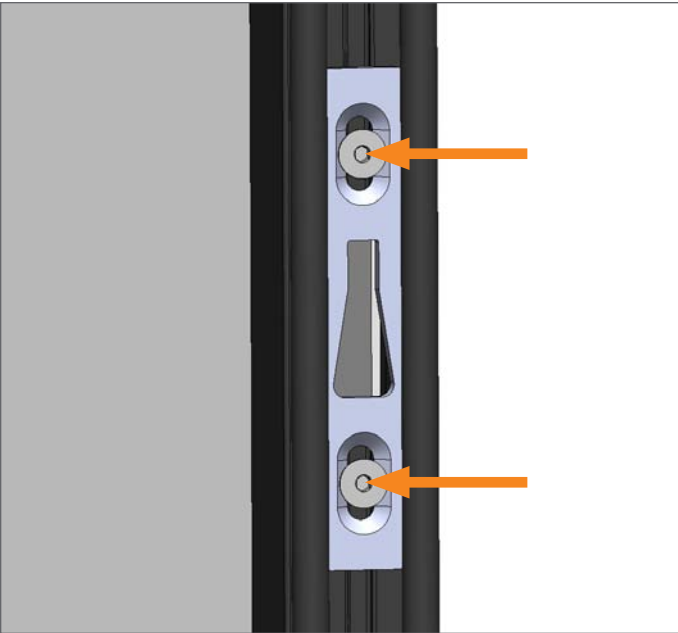
Check latch for proper function

# Phase 9: Final Finishing

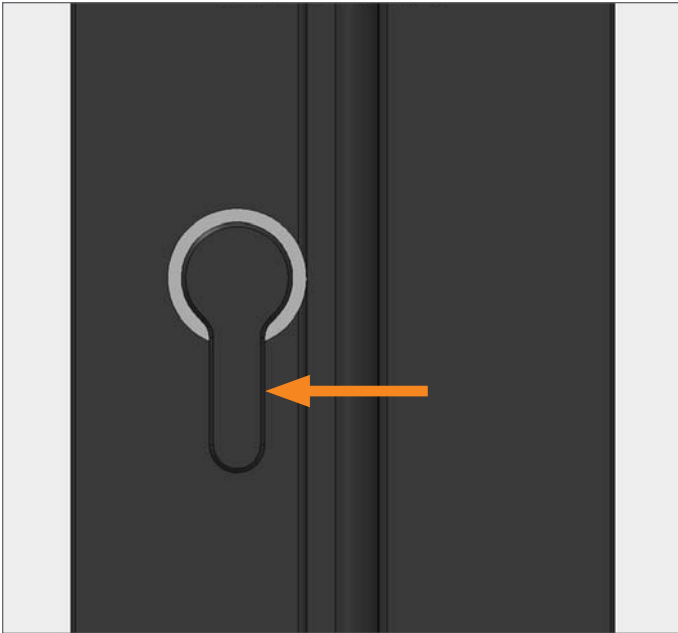
## Step 9.4 : Check and Adjust Latch Plate

Adjust latch plate vertically to align the thumb-turn plumb when in the locked position.

Use 3mm T-bar Allen wrench.



Adjust latch plate vertically



Adjust so thumb-turn is plumb

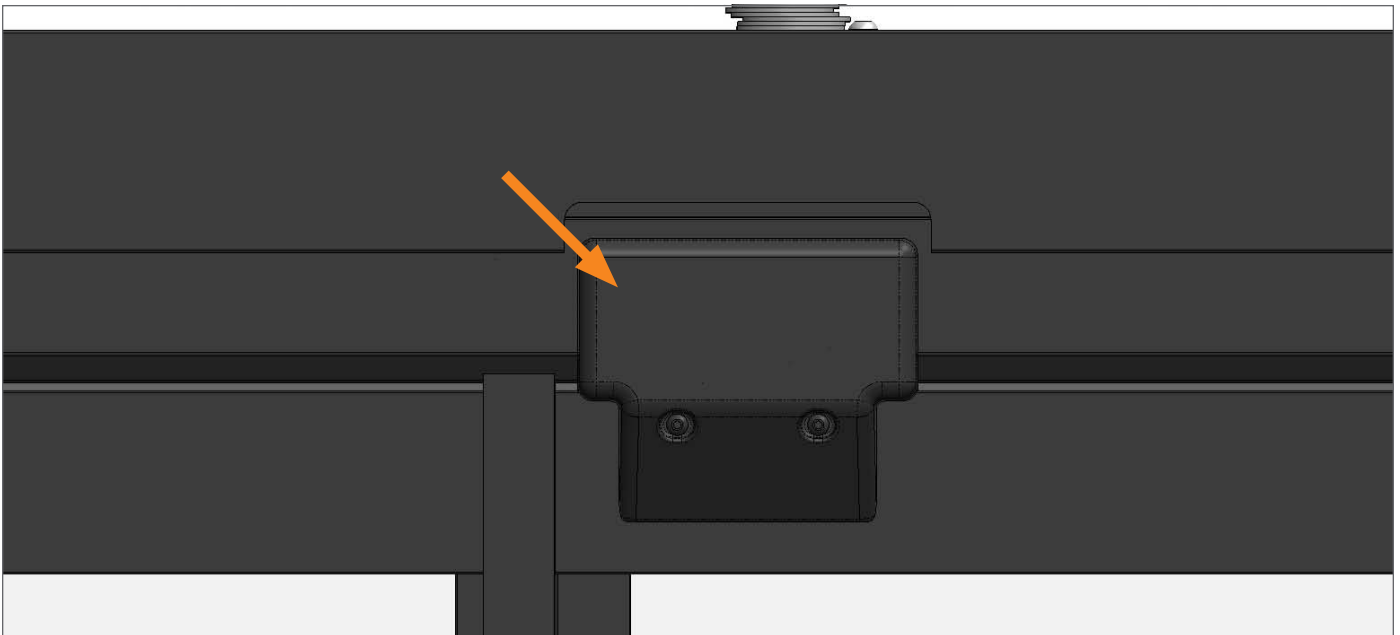


## Phase 9: Final Finishing

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### Step 9.5 : Mount Wheel Guide Cover

Align Wheel Guide Cover with wheel guide in Top Track and confirm location of predrill holes in top profile of the Daily Door. Using supplied screws, fasten the Wheel Guide Cover to the top profile of the Daily Door. Confirm it sits square with Panel and Top Track. Test operation and fit by opening and closing Daily Door. Cover should sit tight to Top Track when the door is closed.



Mount Wheel Guide Cover on Daily Door

## Phase 9: Final Finishing

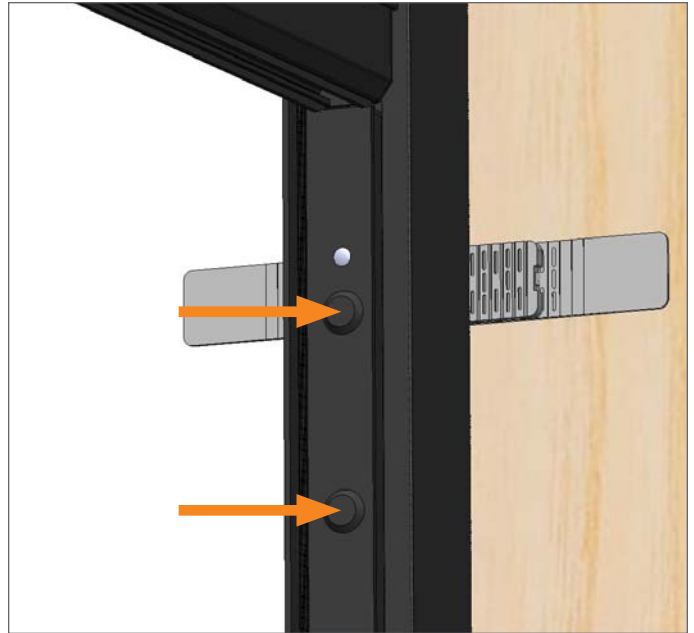
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### Step 9.6 : Insert Side Jamb Hole Plugs

Insert hole plugs into all holes in both side jambs. Daily Door needs to be in open position to insert hole plugs. Use a flat screwdriver on the flat to press into metal. Ensure plugs are fully pressed in and sit flush around the outside perimeter.



Insert Hole Plugs in Side Jamb on Daily Door side



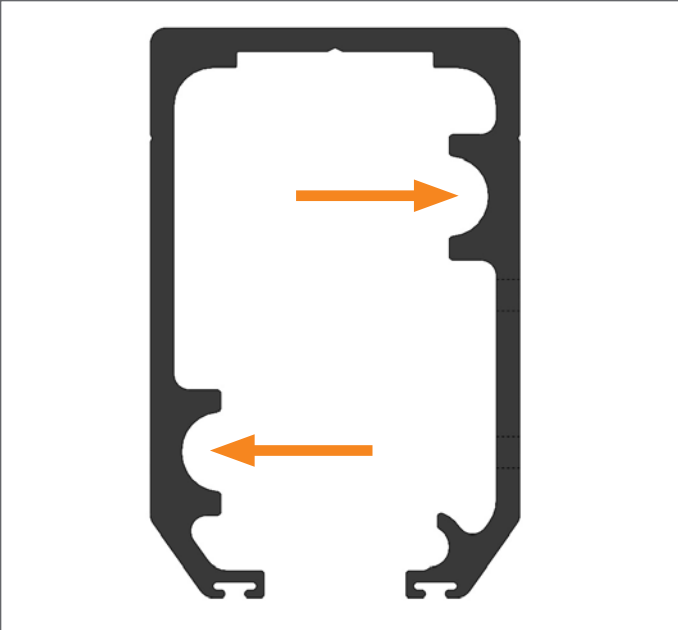
Insert Hole Plugs in Side Jamb on opposite side

# Phase 9: Final Finishing

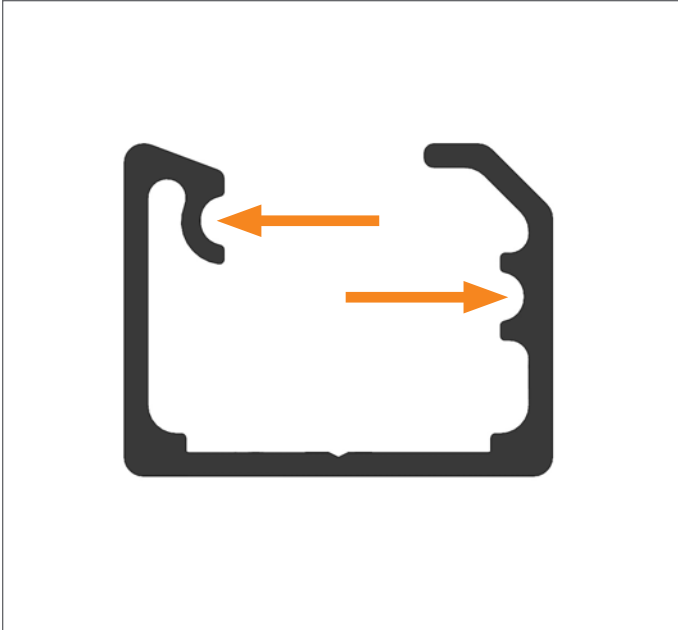
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## Step 9.7 : Lubricate and Operate

Lightly lubricate the rails in the Top and Lower Track and cycle all Panels open and closed a minimum of 10 times.



Lubricate rails on Top Track



Lubricate rails on Lower Track

## Phase 9: Final Finishing

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### Step 9.8 : Inspect Unit

Remove any visible tape and inspect entire unit. Document any cosmetic damage. Clean any residue and touch up any light scratches.

Refer to cleaning and touch up guide for proper practices. Check entire unit for any visible light and make sure all seals are aligned correctly.

Walk the homeowner or the builder through the operation of the unit.

## Phase 9: Final Finishing

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### Step 9.9 : Flashing Tape (Optional)

Apply Flashing Tape to the entire perimeter of the unit and the frame. Start on the sides and do the top last to properly shingle the tape. Ensure there is at least  $\frac{3}{4}$ " of tape on the unit frames and at least 2" on the framing of the structure.

Roll all tape based on manufacturers recommendations.

### Step 9.10 : Spray Foam (Optional)

Spray foam the interior perimeter of the unit except the bottom (the bottom should have a solid bead of liquid flash).

Make sure the foam is pressed in to the backside of the Flashing Tape to ensure peak thermal performance. Allow the foam to expand into the interior side past the frames slightly. It will be trimmed flush at a later time.

### Step 9.11 : Silicone Lower Track (Optional)

Lay a continuous bead of Liquid Flash along the interior edge of the Lower Track across the entire length of the unit. Continue the bead on the back side of each side jamb vertically 6" to seal the side jamb to the framing.

At this point the unit should be fully sealed and all Lower Track seams cured. Check weep holes for debris. Pour water into Lower Track and check all weeps for proper action and ensure no water leakage to the interior.