



WINGATE
LUXURY WINDOWS

***VistaSlim and TrueOak
Hinged Doors***

Install Instruction Booklet

INSTALL INSTRUCTIONS

IMPORTANT NOTICES & INFORMATION

For Win-Gate's VistaSlim and TrueOak Hinged Doors, **Please read before you start the installation.**

The building envelope must be correctly prepared with weather resistant barriers – that meet local and state codes. All frame and sill surfaces must be correctly prepared for air, water, and structural integrity by the builder or contractor before attempting installation.

We recommend a high-level installer or someone that has been trained as a Win-Gate certified installer. Read these instructions from beginning to end before starting installation and check with your local code official to identify and confirm compliance with local building code requirements.

Win-Gate is not responsible for site measurements nor the structural and architectural requirements for the installation of the door. Building design, construction methods, building materials and site conditions unique to your project may require methods different from these instructions.



• VistaSlim and TrueOak Hinged doors



• VistaSlim and TrueOak French doors

PART-1 HOW TO INSTALL HINGED DOORS

REMOVE PACKAGING AND INSPECT DOORS



WARNING

Windows and doors can be heavy. When opening the crates, be careful with the windows and doors. Falling toward the installer may cause injury and/or product damage.



Remove Packaging

Open the wood crates according to the instruction outside the crates: open the top cover first and then open the indicated side. You might need a Pry Bar to prize the crate open or use drill to unscrew the screws.

Use safe lifting techniques and a reasonable number of people with enough strength to lift and carry windows to avoid injury and/or product damage.

Inspect Door

Each door will carry an identification label showing Item No., description, sizes to help you find the door for its location.

■ Visible Damage

Remove the packaging material on the frame and check if there is any damage or glass breakage that may have occurred during manufacturing or shipping.

■ Correct Product

Check the product if it matches the shop drawings and requested specifications (size, color, grid pattern, handing, glazing, energy efficiency requirements, etc.).

OPERATION GUIDANCE

↑ Open from the top, Then this side!



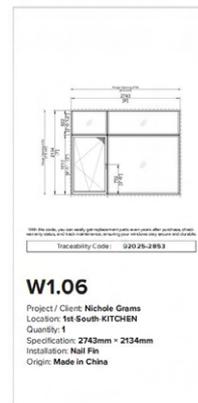
OPERATION GUIDANCE
1. Please follow the arrow above to open the top cover first.
2. Then open the indicated side.

Packing List						
Customer Name:	Polly					
Product Name:	Doors and Windows					
CTNNO.	Product ID	Quantity	Specification (L*W*H(mm))	Volume (m ³)	Net Weight (kg)	Gross Weight (kg)
	WB-1	1				
	WB-4	1				
	WB-2	1				
	WB-3	1				
	WB-1	1	1780 760 1970	2.68	492	573
	WB-2	1				
	W1	1				
	WB	1				

Instruction on Wood Crate



Product packaging label



MATERIALS AND TOOLS

NOTE

This fastener schedule is provided as an example of fastening requirements. Requirements may vary by product, building type, application and region.



WARNING

Failure to use appropriate materials for the installation may cause a failure resulting in injury, property or product damage.

NOTE

The materials needed for the installation will be provided by the installers who will be responsible for the quality and should follow the manufacturers' instructions.

Materials Needed

- #10 x 1 1/2" flat head or washer head (stainless steel recommended) screws are needed to go through the metal clips or through the frame to the rough framing. Fasteners must penetrate at least 1" into framing (or as required by local code). **For masonry or concrete walls, you will need to use masonry screws.**

For installing fasteners through nailing flanges, installation Straps, head, side jambs and sill.

FASTENER SCHEDULE

Building Materials	Minimum Fastener Size	Minimum Embedment
Wood Frame	#10 Wood Screws	1 1/2
Concrete / Masonry	3 / 16" Masonry Screw	1 1/4
Steel Frame	#10 Self-tapping Screw	3 Threads

*1 3/4" Roofing nails can be used for fastening through installation flanges into wooden frame construction.

- Interior and exterior window/door grade sealant
- Polyurethane low expansion foam
- Non-compressible or non-water degradable shims/Plastic shims
- Self-adhered flashing tape (Minimum 6" wide)



WARNING

Follow manufacturers' instructions for hand or power tools. always wear safety glasses. failure to do so may result in injury and/or product damage.



WARNING

Use caution when handling glass. Broken or cracked glass can cause serious injury.

IF INJURY OCCURS,
IMMEDIATELY SEEK MEDICAL
ATTENTION!

Needed Tools



1 Hammer



2 Utility knife



3 Tape measure



4 J-roller



5 Suction cups



6 Sealant gun



7 Caulking gun



8 Pry bar



9 Drill with bits



10 Laser level



11 Framer's square

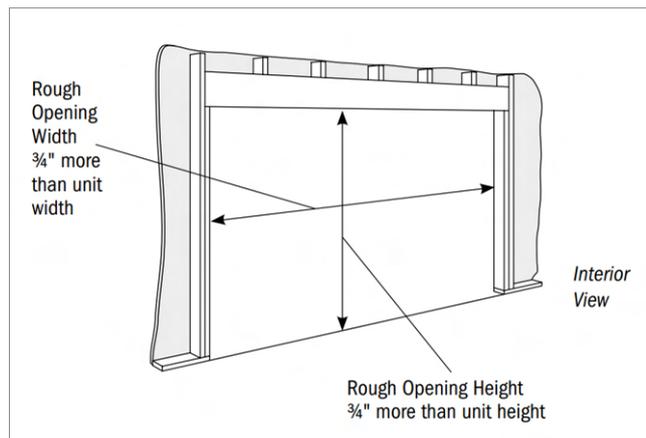


12 Air Wedge

INSTALL DOORS (WOOD STUD-FRAMED WALL)

Step 1: Verify Rough Opening

Before starting the installation, verify that the rough opening sizes are correct. Usually the RO size is $\frac{3}{4}$ " wider and higher than the window / door actual sizes (frame to frame), which is shown in shop drawings we submitted.



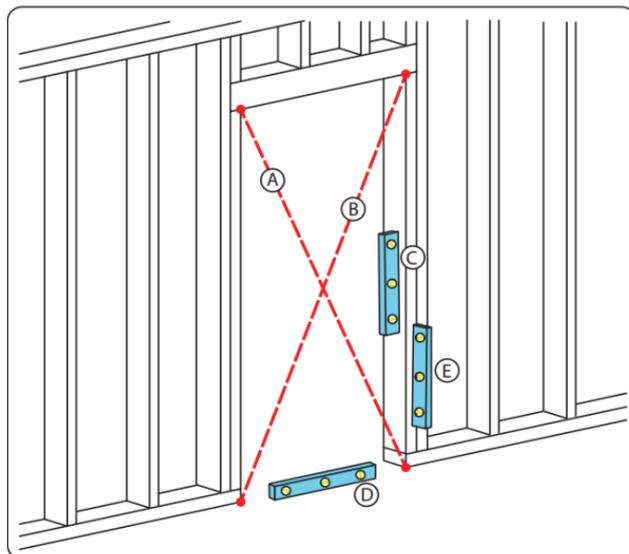
Verify the rough opening is square. The (A) and (B) measurements should be the same. Verify the rough opening is level and plumb (C, D and E). Sill must be level and flat. Shim if needed.

The exterior face of the rough opening must be in a single plane (E) with less than $\frac{1}{8}$ " twist from corner to corner.



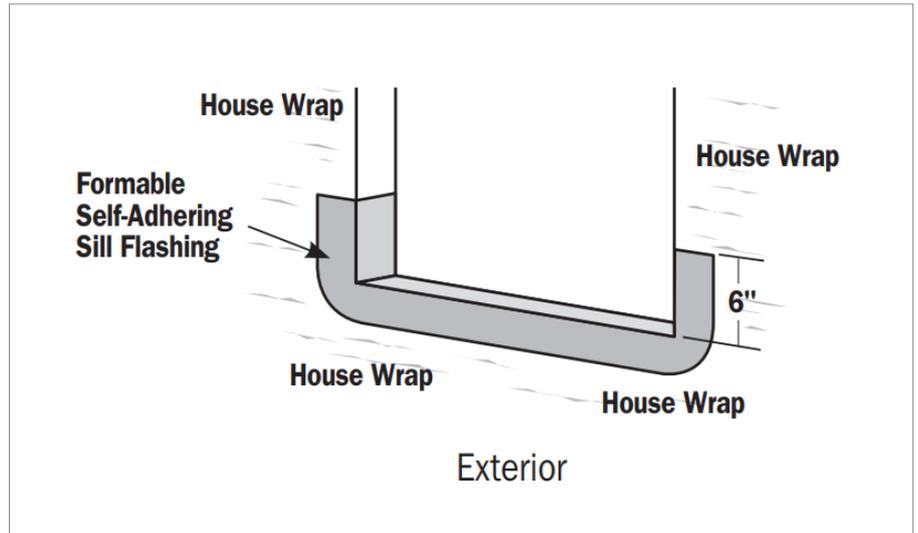
WARNING

Rough opening must be level and square. Failure to have a level and square rough opening will affect the products performance. If rough opening is not plumb or level, correct as necessary.



Step 2: Apply Sill Flashing or Sill Pan According to the Local Code

Apply formable self-adhering sill flashing into the opening over the sill and 6" up both jambs in one continuous piece as shown. Smooth out any bubbles or creases with a J-roller.



There are different types of flashing in the market, make sure the installers use the proper type and follow the flashing manufacturers' instruction and local code.

NOTE

Rigid sill pan and liquid flashing are also effective if the proper application methods are used. The sill pan or flashing will be provided by the installers and should follow the sill pan and flashing manufacturers' instruction and local code.



Rigid Sill Pan

Self-adhesive Flashing Tape

Liquid Flashing

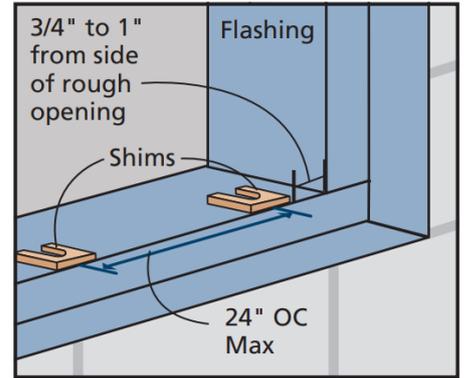
Step 3: Set Shims

Set support shims (composite shims) over the flashing. Check level and **adjust the height of the shims to obtain a level sill.**

NOTE

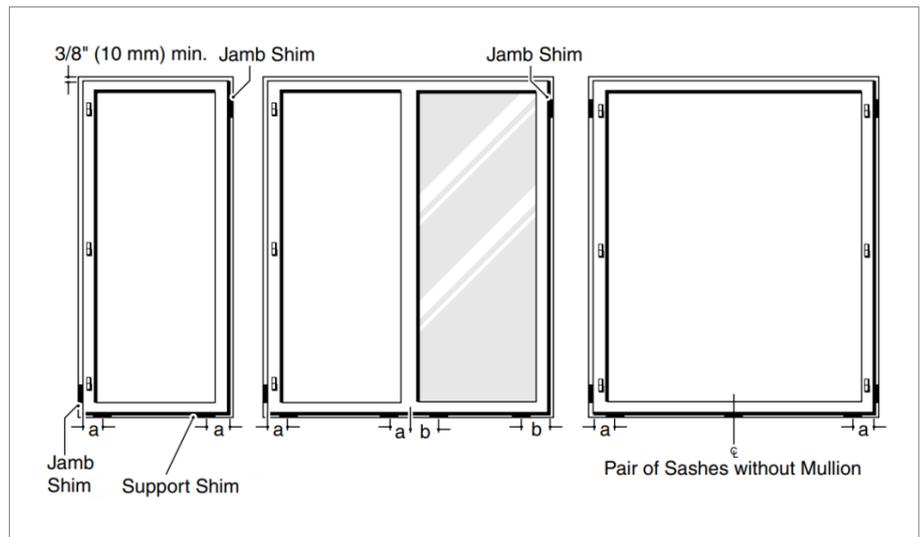
DO NOT set door unit directly on sill. Shims may be temporary held in place with sealant. In a future step, the foam being applied under the door needs to be a continuous seal at the sill.

- Confirm the door installation location in the rough opening with the contractor/builder/owner to make sure the shims are set right under the door threshold.
- Shims should be placed on the sill 4" (100mm) from each end.
- No more than 24 inches in the center between additional shims.
- For mullied units, ensure there is a shim located 1/2" either side of the mull joint.



NOTE

DO NOT over shim. Bowed jambs will result affecting product performance and/or proper operation of unit.



Where to put support shims and jamb shims :

- Level with the top hinge on the lock side (above metal strap).
- Under bottom hinge on the hinge side (above metal strap).
- French doors must have a shim at the center line.

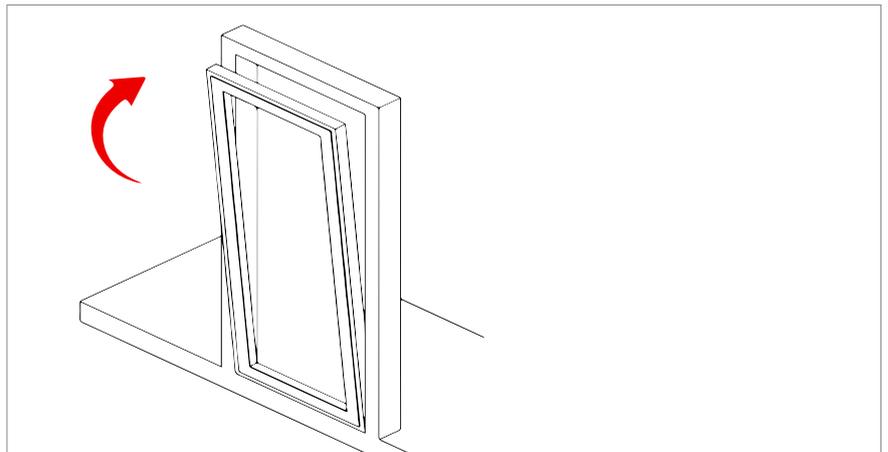
Step 4: Install the Door

Before starting the installation, confirm the door swing and handling, and refer to the shop drawings that were confirmed and approved by the clients. Check the door frame to see if metal straps are attached. If not, check the accessory box or contact your sales representative.

Door Handing Chart

SINGLE DOORS		DOUBLE DOORS			
<p>INSIDE OUTSIDE LH LEFT HAND</p>	<p>INSIDE OUTSIDE RH RIGHT HAND</p>	<p>ACTIVE INSIDE OUTSIDE LEFT HAND</p>	<p>INSIDE OUTSIDE ACTIVE RIGHT HAND</p>	<p>INSIDE OUTSIDE LHR LEFT HAND REVERSE</p>	<p>INSIDE OUTSIDE RHR RIGHT HAND REVERSE</p>

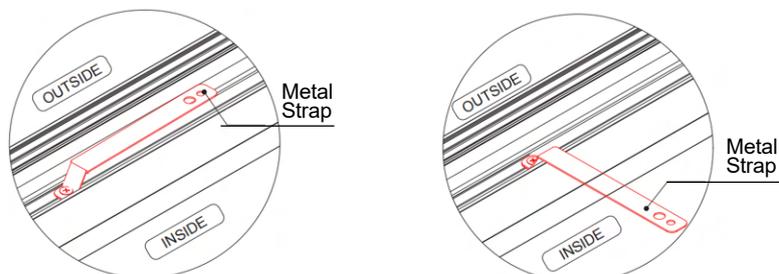
- A.** Set the door into the rough opening, starting with the bottom edge, on the sill pan (if applied). The jamb legs should be sitting on the sill shims on each side.



WARNING

The door is heavy. To avoid injury, use at least two people to install adequately. Support the door until completely fastened.

- B.** Rotate the metal straps which are attached to the door frame (the head and side jambs, no metal straps on the threshold) until they are at right angles to the frame. The metal straps should point to the interior of the building.



Rotate the metal straps to the Interior

NOTE

When placing the door into the opening, pay attention to the door swing and handling. **DO NOT** place the door upside down. The label sticker on the glass shows which side is up.



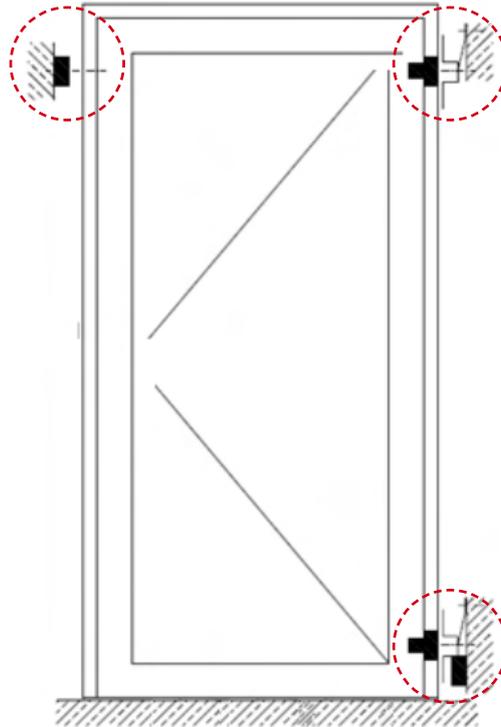
Label on Glass

C. Center door in rough opening and ensure the door is right side up. Screw the metal straps to the wall top of the jamb on both sides and bottom of the jamb on the hinge side to **secure the door temporarily**.



Screw the Metal Straps from the Interior

Temporarily secure door with metal straps at these locations before adjusting and checking for plumb, level and square.

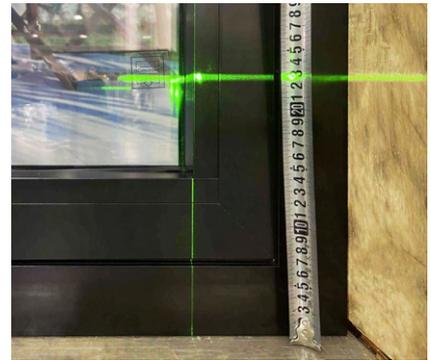


Temporarily secure the door

NOTE

A Laser Level must be used during the installation for accuracy. Make sure the door is leveled perfectly or the sash will not operate properly.

D. Level the door with **laser level** to make sure the door is **vertically** and **horizontally** leveled, and **four sides must be in a single plane** to ensure the door frame is straight.



Check horizontal level (Floor leveled and laser height same)

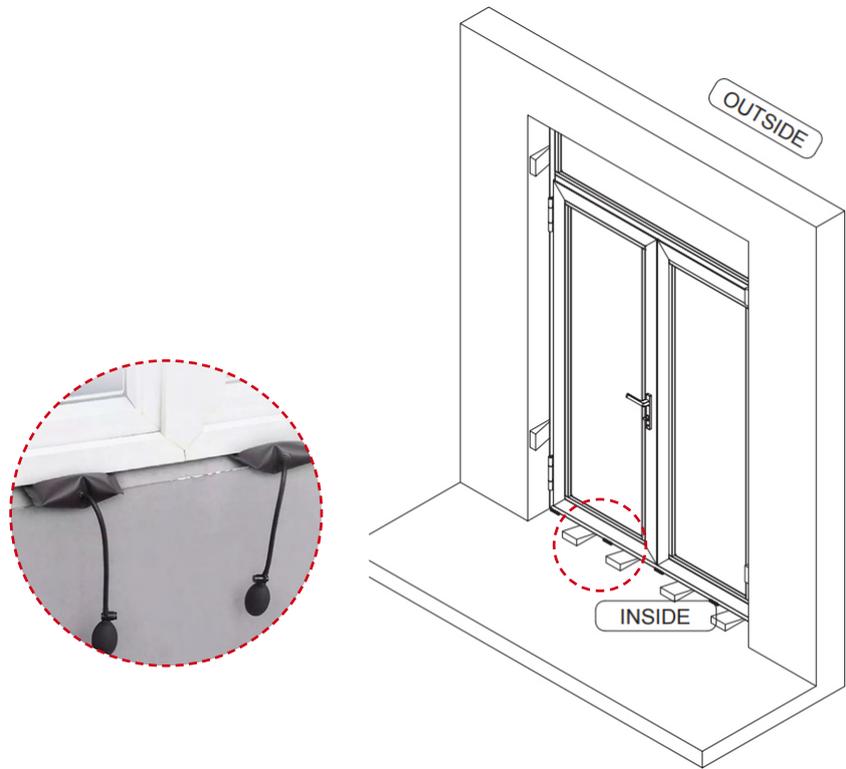


Check vertical level (Two sides straight)



Check four sides in a single plane (Two side frame surfaces straight)

E. Adjust the Shims as needed until the door is perfectly leveled. **DO NOT** over shim.



Use wood wedge or air wedge to adjust the door

F. After the leveling is adjusted perfectly by laser level, screw the rest of metal straps to the framing and secure the whole door to the opening. No straps required at the aluminum sill.



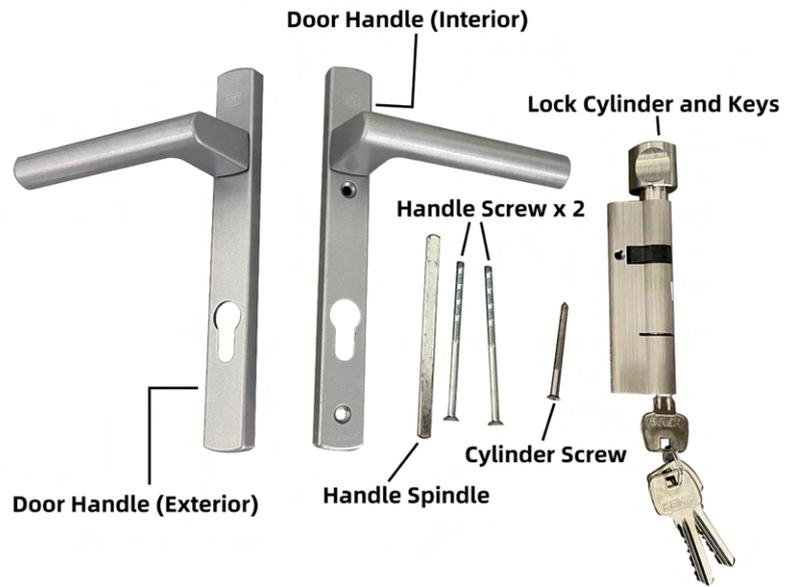
Rotate the straps at a right angle or bent them over the inside edge of the rough opening

NOTE

The door handle/lock might look different on different brands, but installation is same.

G. Install Door Handles and Lock.

1. Each door comes with two handles (In & Ex), one handle spindle, two handle screws, one cylinder screw, one lock cylinder and three keys.



2. Insert the spindle into the handle and insert it into the door.



3. Insert the lock cylinder into the door.



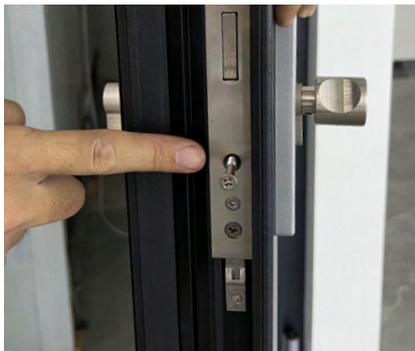
4. Turn the thumb turn to the hinge side to unlock the door.



5. Press the handle to open the door.



6. Open the door and screw the Lock Cylinder tight.

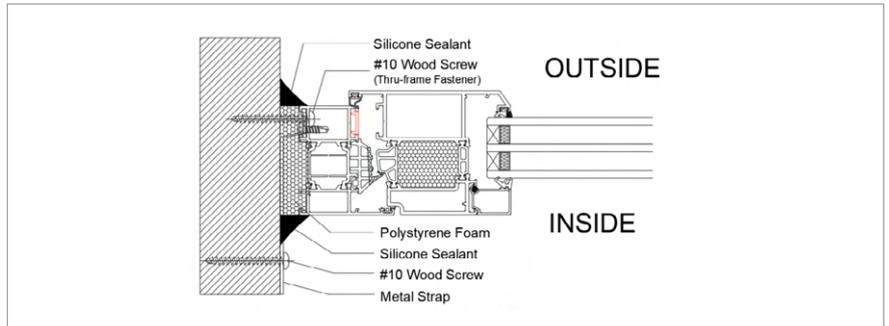


7. Install the Door Handles.



Screw the handles together from Inside

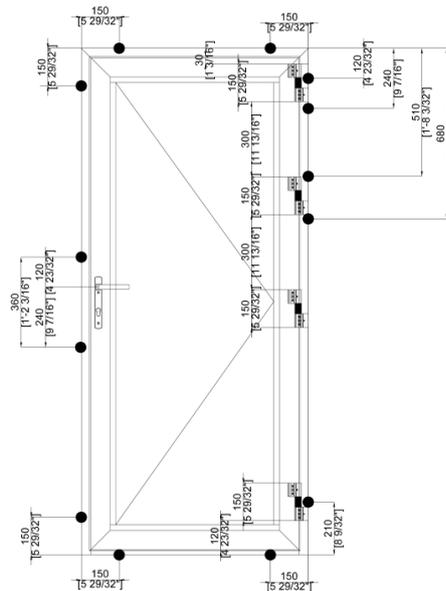
H. In addition to metal straps, through-frame fasteners are required to stabilize the door and secure it to rough opening framing. **DO NOT screw too tight.**



Section drawing to show installation details

Important Thru-frame Fastener Locations:

- Screws near the hinges.
- Top and bottom with 6" distance to the corners.
- The rest screws with 20"oc max.



Predrilled screw hole locations

NOTE

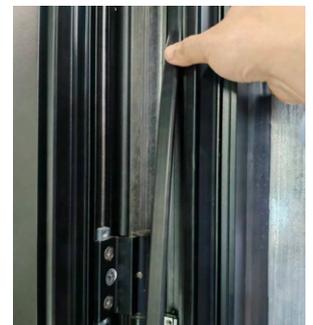
Re-check the door level and make sure the door level didn't change during the installation process. Shims are required to be placed at the same locations as the fasteners to prevent bowing of the frame. **DO NOT screw too tight.**



Remove rubber seal from the frame to show pre-drilled screw holes



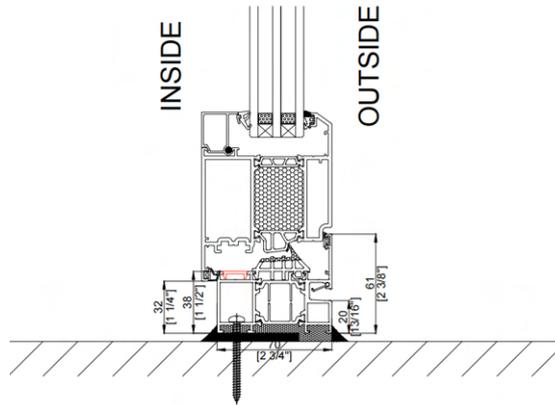
Screw through the frame to the Wall



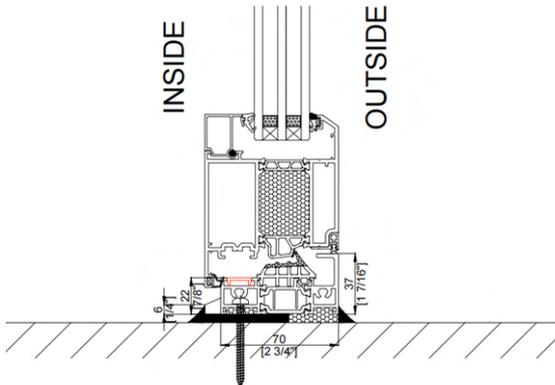
Install the rubber seal back to the frame and cover the screw holes

I. Door Thresholds

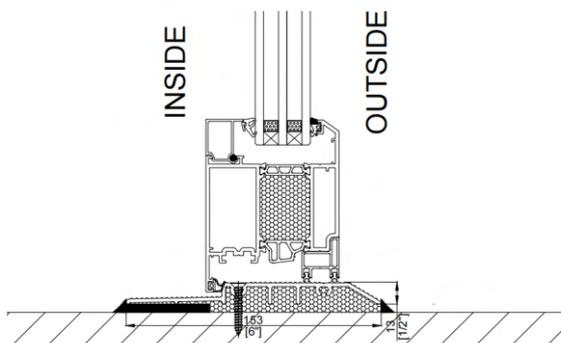
There are three threshold options according to the client's requirement or local building code. Check what threshold option is used in your doors.



High-performance Threshold



Low Profile Threshold



ADA Threshold

NOTE

For the doors coming with Low Profile Threshold or ADA Threshold, to ensure sill is raised sufficiently to accept interior floor finish materials, apply sill plate if needed.

Step 5: Test the Door

A. Close and open the door to check if it operates smoothly. If not, use the laser level to check if the door level is changed. Re-adjust if necessary.

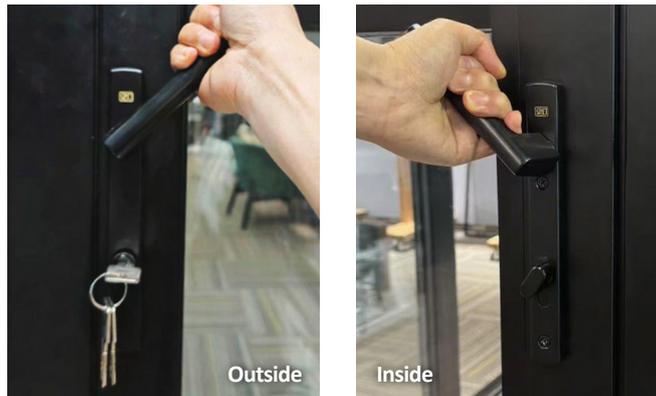
B. Test the lock.

To lock the door

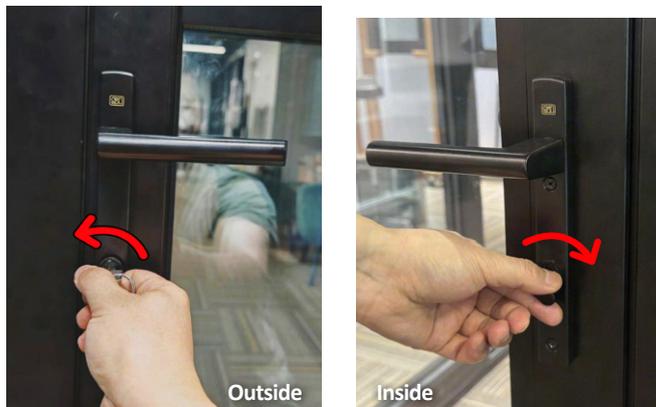
❶ Close the door firmly, the latch engaged.



❷ Lift the handle up, the deadbolt comes out and multi-locking points engaged.



❸ Turn the key from outside or turn the thumb turn from inside to the Strike-Side Jamb. Then the handle can't be turned and door is locked.



To Open the door

- 1 Insert and turn the key from outside or turn the thumb turn from inside to the Hinge-Side Jamb, the door is unlocked.



- 2 Press the handle down.



- 3 Push or pull door open.



Step 6: Finish the Installation

A. Fill the gap between the frame and wall with low expanding foam.



B. After the foam is dry, cut the overflowing foam and clean up the foam and dirt.



C. Apply Silicone Sealant around the joint continuously on the inside and outside or wait until all the installation work is finished.



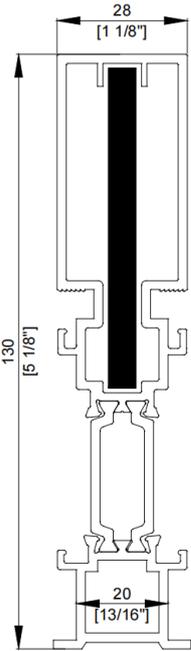
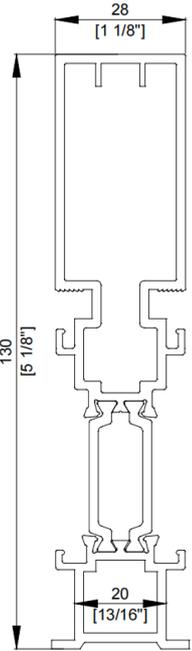
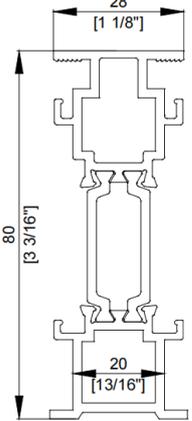
D. Add protection and marks on the door to avoid glass being hit and damaged when the house is still not ready.



Step 7: Mull the Door and Window together

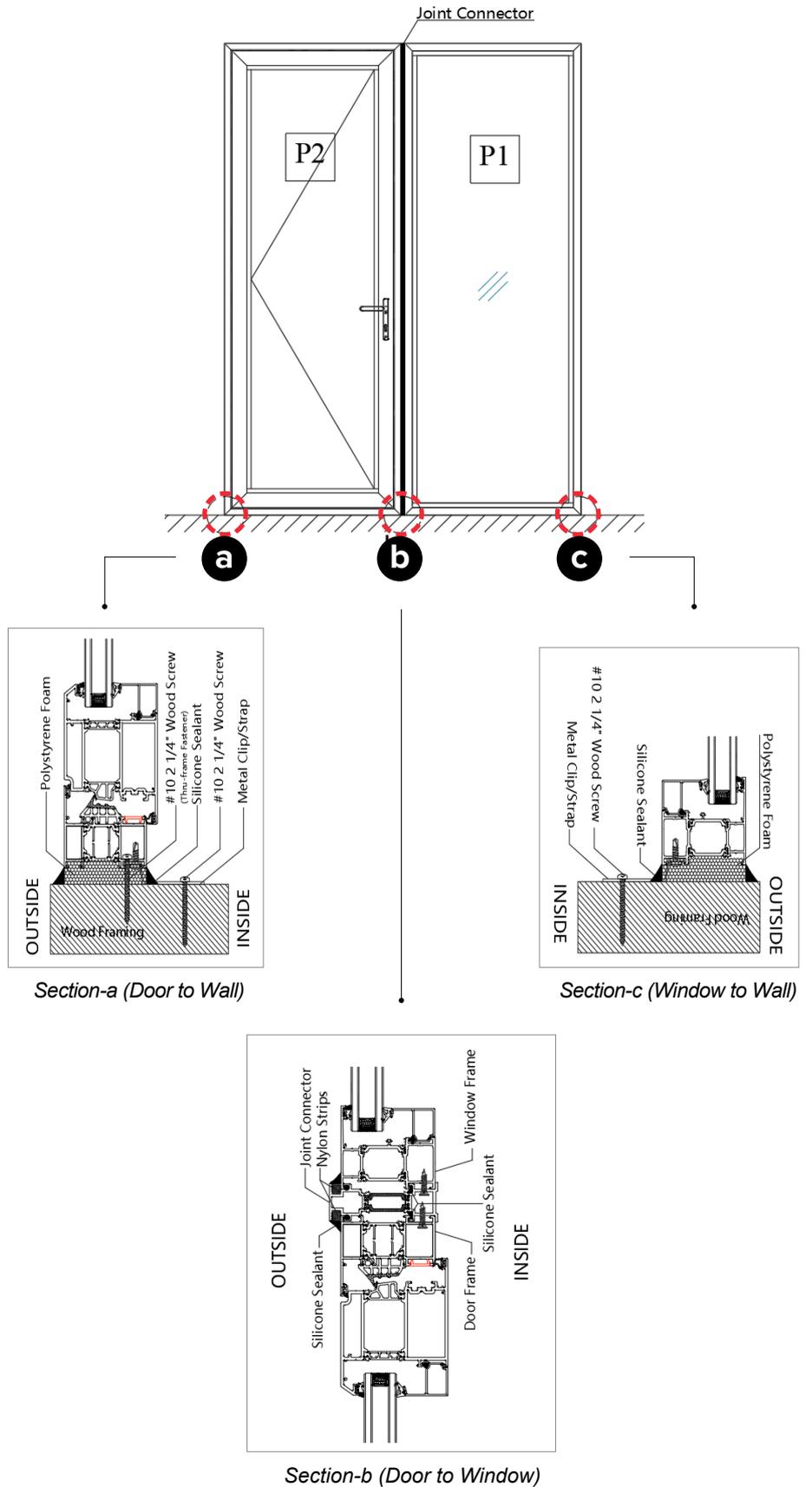
In some orders, there are oversized Door and Window Combination which are too big for container shipping due to the limit of container door opening size, so we must make and ship the door and window separately, and then installers mull them together on-site. Win-Gate have designed special patented joint connectors between the window and door.

Below is to show the joint details and the process of joining the window and door together.

Reinforced with Steel Insert	Reinforced	Regular
 <p data-bbox="638 1563 821 1617">Suggested Window Height: 11' ~ 13'</p>	 <p data-bbox="941 1563 1125 1617">Suggested Window Height: 9' ~ 11'</p>	 <p data-bbox="1244 1563 1428 1617">Suggested Window Height: ≤9'</p>

VistaCore Joint Connectors

For Example:



NOTE

The individual window / door will be installed one after another, so it is very important to check the rough opening width first and make sure the window combination will fit and be in the center of the rough opening.

A Laser Level must be used during the installation for accuracy. Make sure the door is leveled perfectly, or the sash will not operate properly.

NOTE

A laser level must be used for accuracy.

The process of joining the door and window together:

1. Double check the window and rough opening width

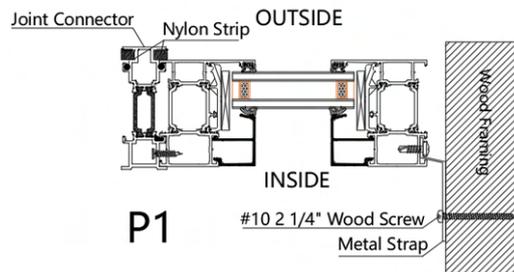
- **Overall Window Dimension Width:**

Sum of individual window widths plus $3/4"$ (20mm) for each joint.

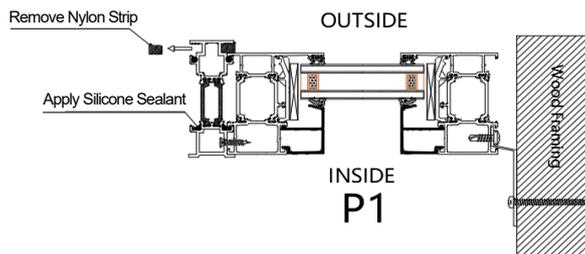
- **Overall Rough Opening Width:**

Overall window dimension width plus $3/4"$ (20mm).

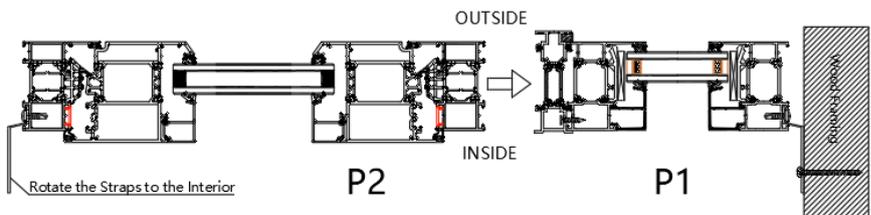
2. Install P1 in the rough opening with metal straps and make sure it is **leveled with laser level**. Shim if necessary. The joint connector has been installed ready on P1 in the factory.



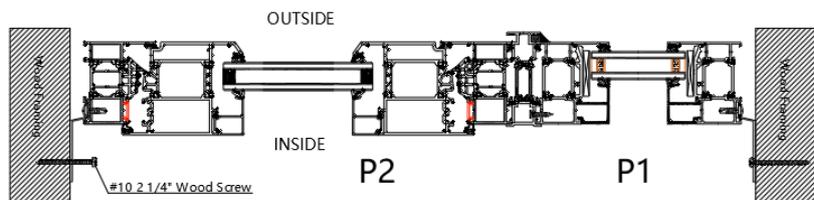
3. Remove the Nylon Strips and apply Silicone Sealant on the Joint Connector.



4. Install P2 and connect it to P1.



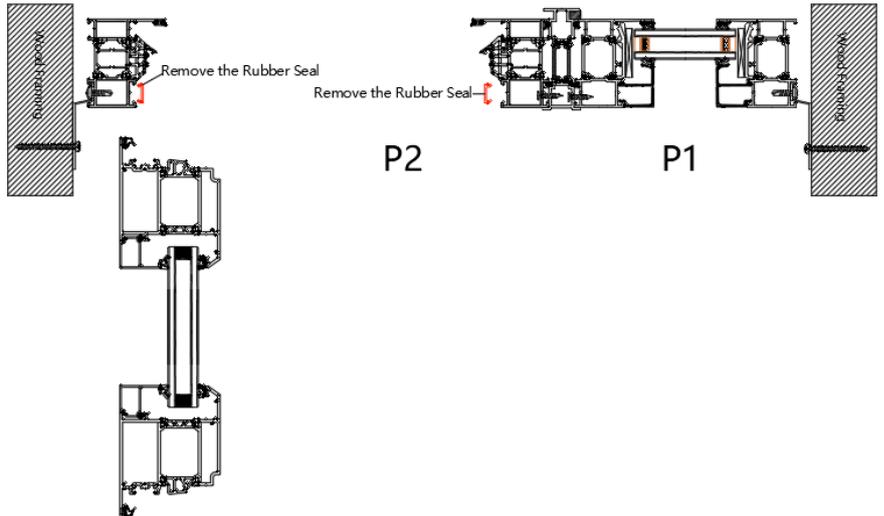
5. Make sure the door is perfectly leveled (refer to step D, on Page 12), and then screw the straps to the wall.



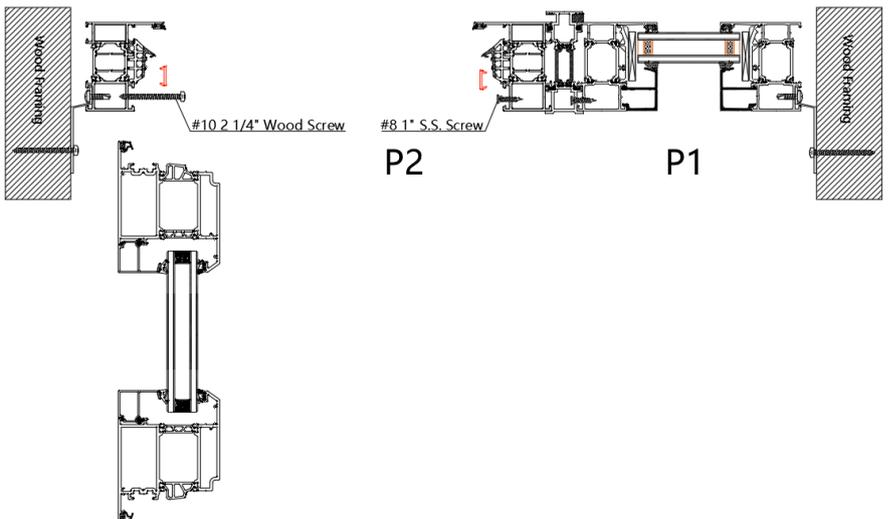
NOTE

The individual window / door will be installed one after another, so it is very important to check the rough opening width first and make sure the window combination will fit and be in the center of the rough opening.

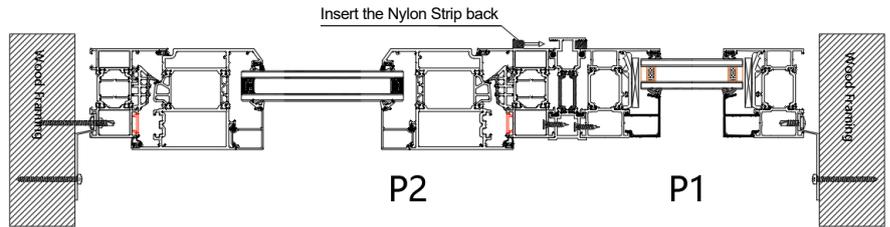
6. Open the door and install the door handle as per step G (on Page 14), and remove the rubber seal from the two-side door frame.



7. Screw through the frame to the wall and to the joint connector and then install the rubber seal back to the frame.



8. Use laser level to recheck the leveling and make adjustment if necessary. Insert the nylon strip back to the joint connector. Use rubber hammer to hit it in if it is tight.

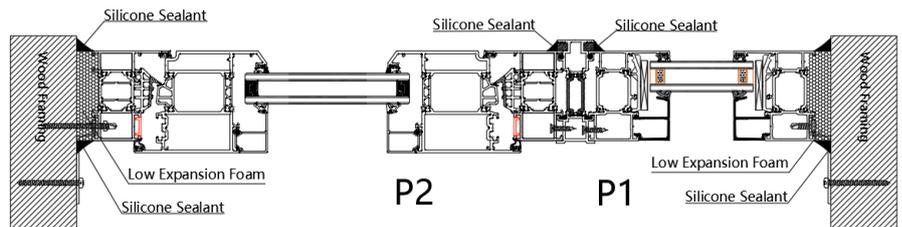


NOTE

A laser level must be used during the installation for accuracy, and improper installation may void product warranty.

9. Finish the Installation:

- Apply continuous leads of silicone sealant along two sides of the nylon strips.
- Fill the gaps with low expansion foam between the frame and wall.
- Apply silicone sealant between the wall and window & door frame or wait until all the installation work is finished.



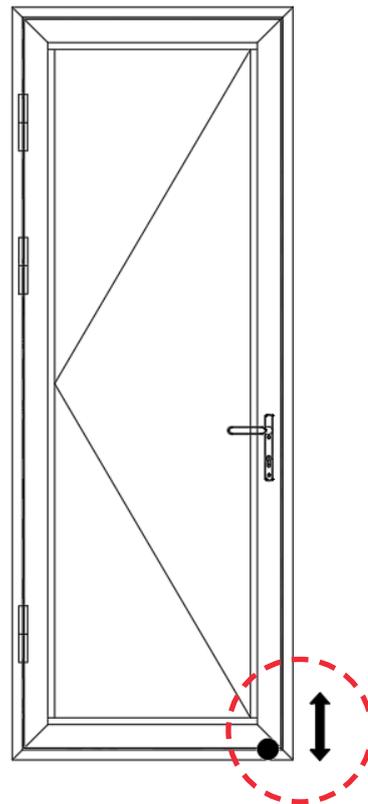
For the installation of more panel combinations, install one panel by one panel according to above instructions.

PART-2 TROUBLE - SHOOTING AND ADJUSTMENTS

Before you start to do adjustments, check the brand of door hinges first. We usually use German **SIEGENIA** or German **ROTO**. The adjustments are different.

SIEGENIA HINGE

SIEGENIA
brings spaces to life



If the sash binds at the bottom, use below adjustment to raise the sash.

Adjustment 1: Vertical Clearance

Maximum adjustment: raises the sash 2mm or lowers the sash 2mm from the factory setting. This adjustment moves the sash up or down.

1. Open the sash and use a small knife blade or a flat head screwdriver to remove the plastic cap from the bottom of each hinge.



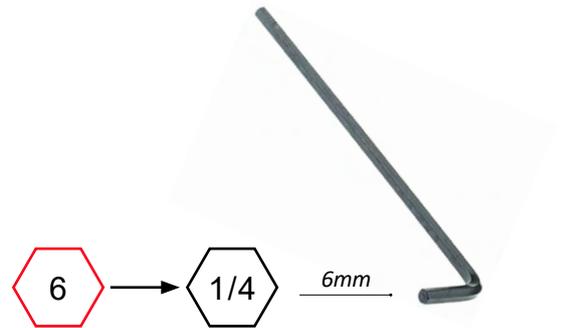
2. Insert the SW6 Allen Key (Standard Hex Key) into the recessed screw head in the bottom of the hinge.

NOTE

Make sure that you raise or lower all three / four hinges by the same amount.



To raise the sash height, rotate the screw in a clockwise direction



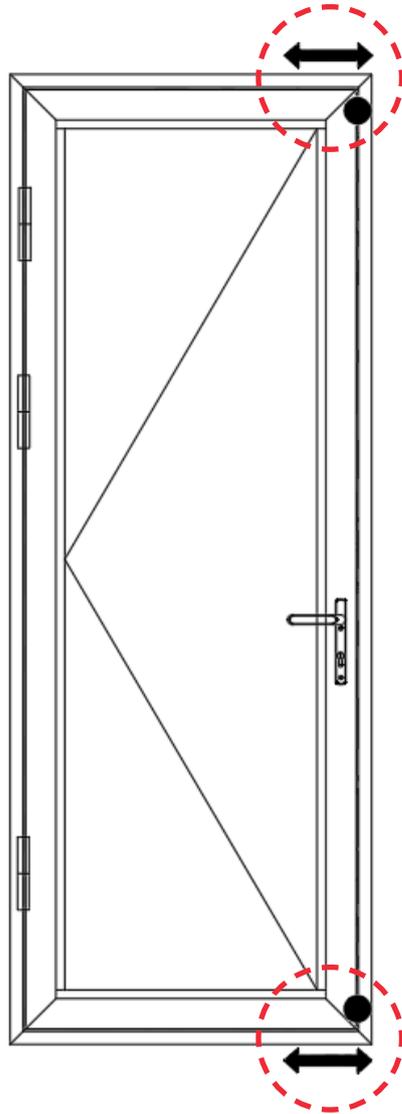
Metric to SAE



To lower the sash height, rotate the screw in a counterclockwise direction



After the adjustment is done, put the caps back on the hinges



If the sash binds at the handle side, use below adjustment to move the sash towards the hinges.

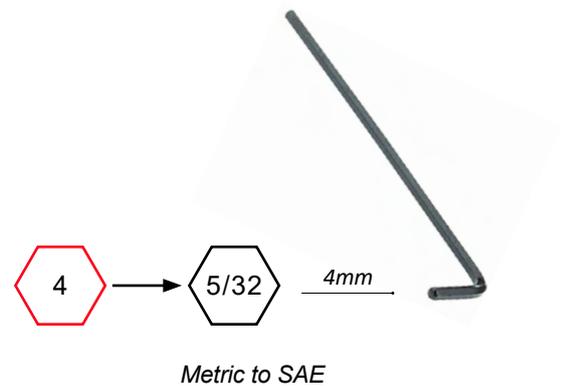
Adjustment 2: Horizontal Clearance

Maximum adjustment: moves the sash 1.5mm to the left. Moves the sash 1.5mm to the right. This adjustment moves the sash from side to side.

1. Open the door, you will see this small screw on each hinge.



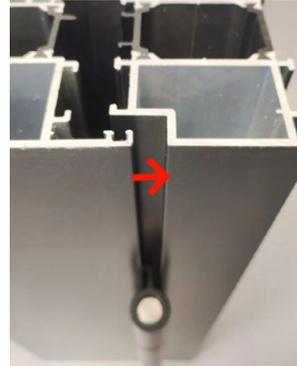
2. Use SW4 Allen Key (Standard Hex Key) to rotate the screw counterclockwise to loosen the screws on all three hinges.



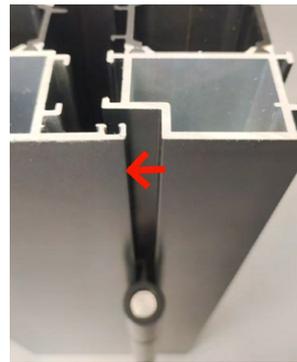
3. Outside of the hinges, remove the small plastic caps to show the small screws on all three hinges.



4. Use SW4 Allen key (Standard Hex Key) and rotate the screws in a clockwise direction to move the sash to the hinge side (max 1.5mm).



Or rotate the screws in a counterclockwise direction to move the sash to the handle side (Max 1.5mm).



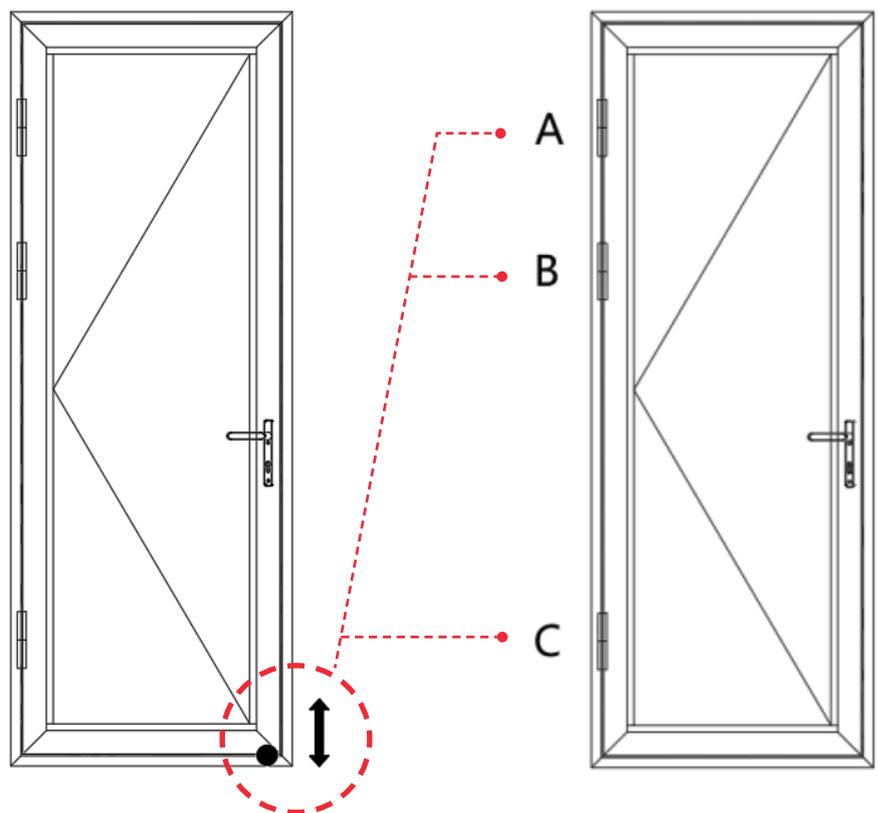
NOTE

All hinges must be tightened after the adjustment, otherwise, the door situation would change.

5. After the sash is adjusted, rotate the screw in a clockwise direction to tighten the screw on all three hinges. After the adjustment is done, put the small caps back on the hinges.



ROTO HINGE



If the sash binds at the bottom, use below adjustment to raise the sash, Hinge A and B are different than Hinge C.

Adjustment 1: Vertical Clearance

Maximum Adjustment: Raises the sash 4 mm or lowers the sash 2mm from the factory setting. This adjustment moves the sash up or down.

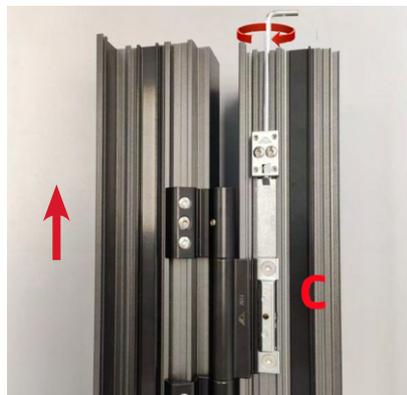
1. Open the sash. Use T25 **Torx Key** and rotate the screws in a counterclockwise direction to loosen the Hinge A & B.



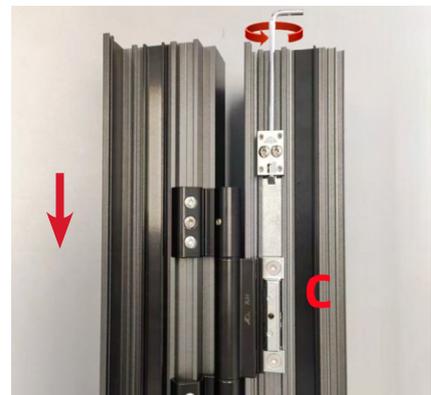
2. Use T25 **Torx Key (Star Key)** and rotate the screws in a counterclockwise direction to loosen the Hinge C.



3. Use SW4 **Allen Key (Standard Hex Key)** and rotate the screw from the top of Hinge C in a clockwise direction to raise the sash height (**Max 4mm**). Or rotate the screw from the top of Hinge C in a counterclockwise direction to lower the sash height (**Max 2mm**).



Rotate clockwise to raise the sash height



Rotate counterclockwise to lower the sash height

4. After the sash height is adjusted, tighten the hinge screws. Use T25 **Torx Key** and rotate the screws in a clockwise direction to tighten the Hinge A & B & C.



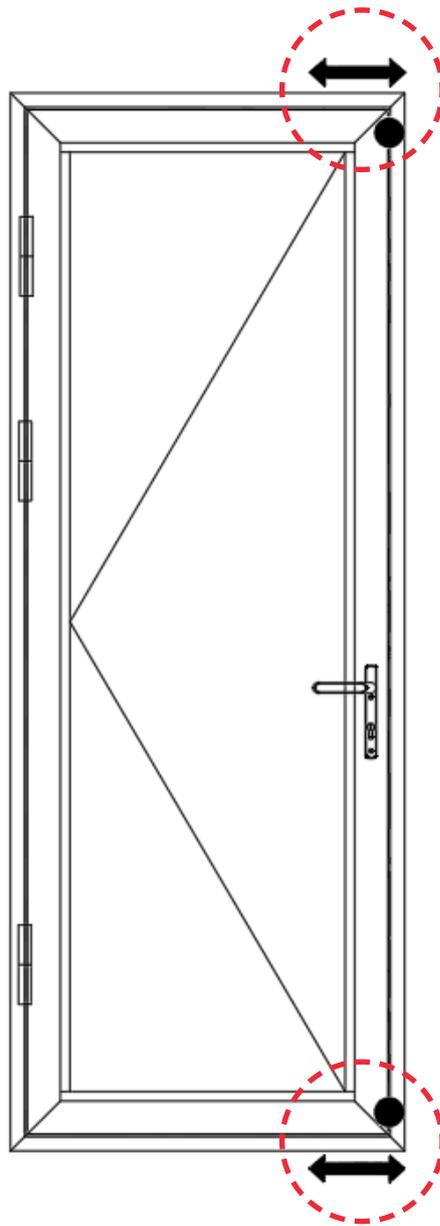
5. Close and open the door to test. The **locking blocks and strike plate** on the locking jamb might need to adjust up or down accordingly after the sash height is adjusted.



Loosen the locking blocks to move up or down



Loosen the strike plate to move up or down



If the sash binds at the handle side, use below adjustment to move the sash towards the hinges.

Adjustment 2: Horizontal Clearance

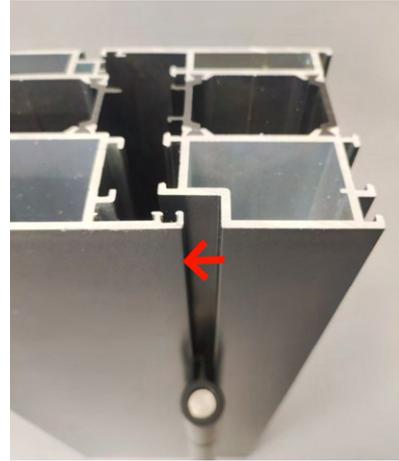
1. Use SW4 **Allen Key (Standard Hex Key)** and rotate the screw in a clockwise direction to move the sash to the handle side (Max 1.5mm).

NOTE

This adjustment moves the sash from side to side and maximum adjustment is $\pm 1.5\text{mm}$.

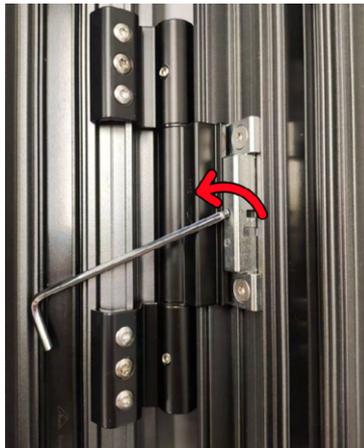


Rotate Clockwise

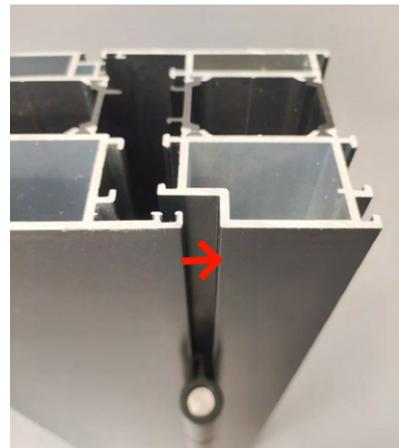


Move sash to handle side

2. Use SW4 **Allen Key (Standard Hex Key)** and rotate the screw in a counterclockwise direction to move the sash to the hinge side (Max 1.5mm).



Rotate Counter-Clockwise



Move sash to hinge side

In addition to these instructions, you can contact your sales rep and ask for videos showing how to do adjustments and troubleshooting.

For more information or need any assistance on the installation, please feel free to contact your sales representatives or email to: info@wingatewindows.com

Showroom:
1133 Polk Ave
Nashville TN 37210
Phone: 615.809.7545

Address:
107 Imperial Blvd Ste 9
Hendersonville TN 37075
Phone: 615.447.5538
www.wingatewindows.com