

# Assembled Patio Door Installation Guide

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Non-Impact & Impact-Resistant  
2-Panel Door with Welded Frame



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

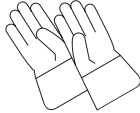
### Project Requirements:

- Failure to follow these instructions may void product warranty.
- Read guide before starting installation. Read all warnings and cautions during installation.
- Due to ongoing product changes, updated test results and/or new industry best practices, this installation procedure may change over time. Visit the manufacturer's website for current installation instructions.
- Instructions are for typical wood frame wall construction.
- Installation must comply with all applicable building codes.
- Instructions may not be right for all installations due to building design, construction materials or methods used and/or building site conditions. Consult a contractor or architect for recommendations.
- Wall and sill must be structurally sound and weather-resistant barrier must be adequate.
- Door must be installed to be plumb, level and square.
- Door should be approximately 1/2" less in both width and height than the opening.
- Joined combination units must be individually supported to the rough opening.
- Anchoring screws must attach to framing members.
- Contact local authorities or waste management companies for proper recycling and/or disposal of removed window or patio door.
- Visit the manufacturer's website for removal instructions, additional installation information and/or guides.

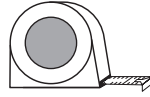
## Tools & materials required:



Safety glasses



Work gloves



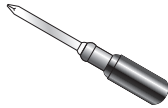
Tape measure



Framer's square



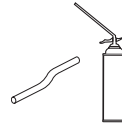
6' level



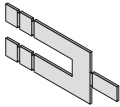
Phillips  
screwdriver



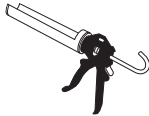
Power driver  
and bits



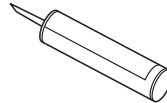
Low expanding foam  
or backer rod with  
sealant



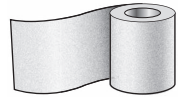
Shims  
(waterproof)



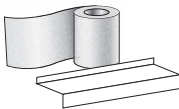
Caulk gun



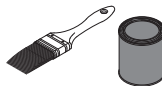
Interior and exterior  
window/door grade  
sealant



Self-adhering  
flashing  
(Minimum 4" wide  
depending upon  
installation)



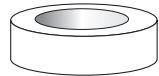
Formable self  
adhering sill flashing  
(Minimum 4" wide)  
or Sill pan  
recommended



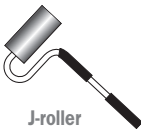
Liquid Sill  
Flashing  
(for slab concrete)



Hammer and  
2" galvanized  
roofing nails  
(or approved fasteners)



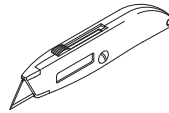
Removable tape



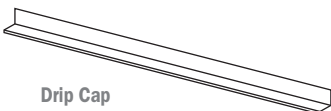
J-roller



Putty knife



Utility knife



Drip Cap

### Warnings and Cautions:

#### **⚠ WARNING**

Use caution when working at elevated heights and around window and door openings. Follow the manufacturers' instructions for ladders and scaffolding. Failure to do so could result in injury or death.

#### **⚠ WARNING**

Follow manufacturers' instructions for hand and power tools. Always wear safety glasses. Failure to do so could result in injury, product or property damage.

#### **⚠ WARNING**

Windows and doors can be heavy. Use safe lifting techniques and a reasonable number of people with enough strength to lift, carry, and install window and door products. Heavier windows and doors will require mechanical assistance. Failure to do so could result in injury, product or property damage.

#### **⚠ WARNING**

Support window or door in opening at all times until fastened. Failure to do so could result in window or door falling out causing injury, property or product damage.

#### **⚠ WARNING**

Before, during, and after installation, place all tools as well as any casing or door parts on a drop cloth or in a location that will not pose a hazard to installers, customers, or property.

#### **⚠ WARNING**

Unless specifically ordered, American Craftsman windows are not equipped with safety glass, and if broken, could fragment causing injury. Many laws and building codes require safety glass in locations adjacent to or near doors. American Craftsman windows are available with safety glass that could reduce the likelihood of injury when broken. Information on safety glass is available from your local American Craftsman dealer.

#### **⚠ WARNING**

Windows and doors have small parts (e.g. hole plugs, operator spline caps, fasteners, etc.). Small parts if swallowed could pose a choking hazard to young children. Dispose of unused, loose, or easily removed small parts. Failure to do so could result in injury.

#### **NOTICE**

DO NOT apply any type of film to insulating glass. Doing so could cause thermal stress conditions and result in glass damage. Shading devices (e.g. insulated coverings, shutters, etc.) could also cause thermal stress and condensation causing deterioration of windows or doors.

#### **CAUTION**

Follow instructions of foam, sealant, and flashing manufacturer regarding safety, material application, compatibility, and periodic maintenance for continued weather resistance of their product. Failure to do so could result in injury, product or property damage.

## Warnings and Cautions:

### NOTICE

DO NOT over drive screws or nails. Doing so could result in product damage.

### CAUTION

Do not cover weep holes. Property damage may result.

### CAUTION

When insulating between unit frame and rough opening or between units when joining, **DO NOT** overpack batt insulation or overfill with foam. Bowed jambs will result affecting product performance and/or proper operation of unit.

### CAUTION

Do not overfill with low expanding foam or overpack with backer rod to avoid bowed jambs.

### CAUTION

Unless specified by manufacturer, do not drill into or through the sill of the door, product and/or property damage may occur.

### CAUTION

Weep holes must face the exterior and must be located at the bottom of the door or product and/or property damage may occur.

### CAUTION

Remove or cut ventilation holes in plastic shipping wrap if door is not installed immediately or product damage may occur.

### CAUTION

Use masonry screw when fastening directly into masonry or through a buck into masonry.

### CAUTION

Do not store doors flat or in the sun or product damage may occur.


### NOTICE

Important safety information. Leave this information for the building occupant.

### NOTICE

Buildings constructed prior to 1978 could contain lead paint which could be disturbed during window or door replacement. For more information on proper management of lead paint, go to: [www.epa.gov/lead](http://www.epa.gov/lead)

Fasteners:

 **WARNING**

Metal fasteners and components could corrode when exposed to preservative-treated or fire-retardant treated lumber. Use approved fasteners and components to fasten window or door. Failure to do so could cause a failure resulting in injury, product or property damage.

Florida Building Code Approved Fastener Chart

Application	Anchor Type	Anchor Size	Minimum Embedment	Minimum Clearance to Masonry Edge	Minimum Clearance to Adjacent Anchor
1X Buck or Masonry Frame	ITW	1/4"	1-1/4"	2-1/2"	3"
1X Buck or Masonry Frame	ELCO	1/4"	1-1/4"	1"	4"

This fastener schedule is provided as an example of fastening requirements. Requirements may vary by product, building type, application and region. Contact your local building code official for requirements in your area.

## Finishing, Cleaning and Maintenance Instructions:

### CAUTION

DO NOT stain or paint weatherstrip, vinyl, glass, or hardware. Doing so could result in product damage.

- ***Read and follow finishing product instructions and warnings on finish material.***

### CAUTION

Follow instructions of foam, sealant, and flashing manufacturer regarding safety, material application, compatibility, and periodic maintenance for continued weather resistance of their product. Failure to do so could result in injury, product or property damage.

### CAUTION

Acid solutions used for cleaning masonry or concrete will damage glass, fasteners, hardware, and metal flashing. Protect window or door and follow cleaning product manufacturer's instructions. If acid contacts window or door, wash all surfaces immediately with clean water.

### NOTICE

DO NOT apply any type of film to insulating glass. Doing so could cause thermal stress conditions and result in glass damage. Shading devices (e.g. insulated coverings, shutters, etc.) could also cause thermal stress and condensation causing deterioration of windows or doors.

### CAUTION

DO NOT use or apply solvents, abrasives, harsh chemicals or cleaners to glass, sash, panels, frame, or window or door components. Doing so will result in product damage. For a list of recommended cleaners go to: [andersenwindows.com](http://andersenwindows.com)

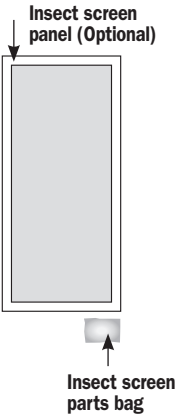
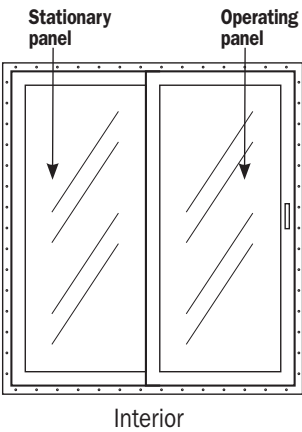
### IMPORTANT

- Clean glass using liquid glass cleaner.
- Clean exterior frame, sash, panels, and insect screens using mild detergent and water with a soft cloth or brush.
- For hard to clean areas, use a nonabrasive cleaner.

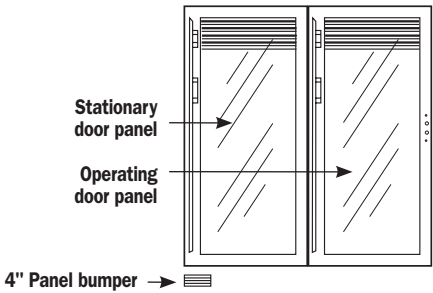
Step 1

Inspect new door and verify opening.

Inspect for proper size and condition and verify that all parts are included. Inspect existing wall and rough opening for structural decay. Repair as needed.



Blinds Between the Glass (Optional)



See Appendix B for instructions to operate, and maintenance on (optional) blinds between the glass.

Hardware Included:

One hardware bag containing:

Quantity	Item
2	Small Weep Hole Covers
2	Large Weep Hole Covers
4	#10 x 2 - 1/2" Pan Head Screws for Keeper

⚠ WARNING

Windows and doors have small parts (e.g. hole plugs, operator spline caps, fasteners, etc.). Small parts if swallowed could pose a choking hazard to young children. Dispose of unused, loose, or easily removed small parts. Failure to do so could result in injury.

(No weep hole covers for blinds between the glass.)



## Step 2

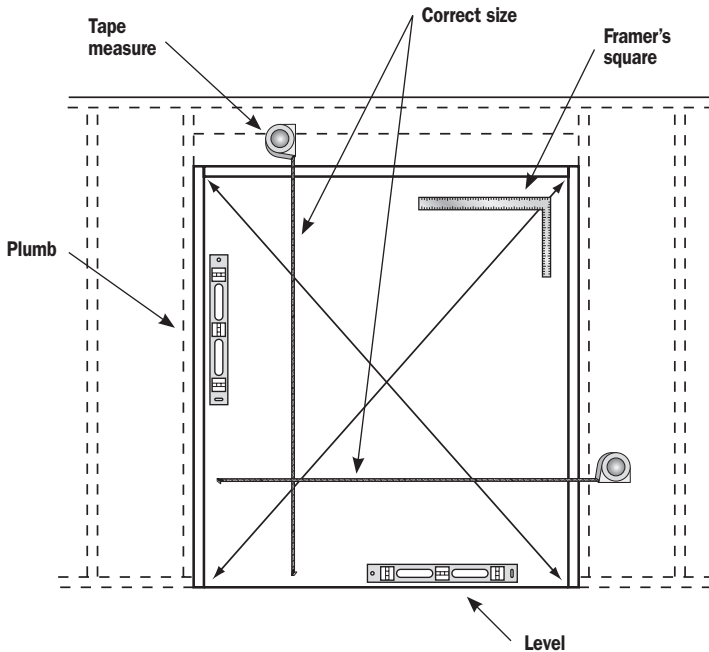
### Prepare rough opening.

Inspect opening for correct size. Opening should be 1/2" larger than door size in width and height.

Check sill plate for level. Sill must be level. If sill is not level, correct before continuing.

Check rough opening for plumb and level. If rough opening is not plumb or level, correct as necessary.

Check opening for square by measuring diagonally, upper left to lower right and upper right to lower left corner. Measurements must be within 1/8". If rough opening is not square, correct as necessary.



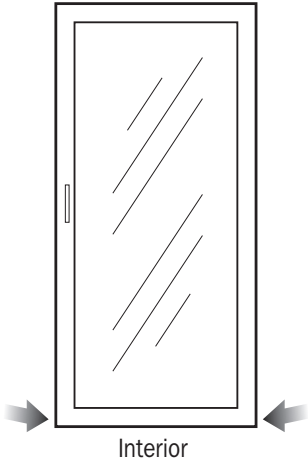
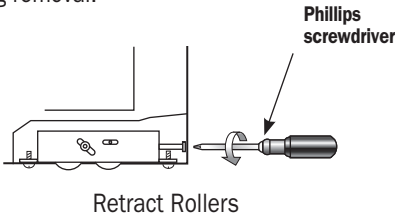
If desired handing of operating panel is correct, proceed to Step 10.  
If other handing is desired (6' 8" or 6' 10" height doors only), continue to Step 3.

**To Change Handing of Operating Panel – Optional  
(Move to the Left or to the Right – Doors WITHOUT  
blinds between the glass only)**

**Step 3**

**Retract rollers on  
operating panel.**

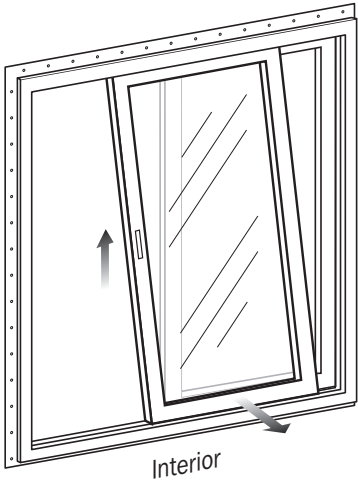
Turn screws on both sides of the operating panel rollers counterclockwise to retract rollers all the way up to prevent damage during removal.



**Step 4**

**Remove operating panel.**

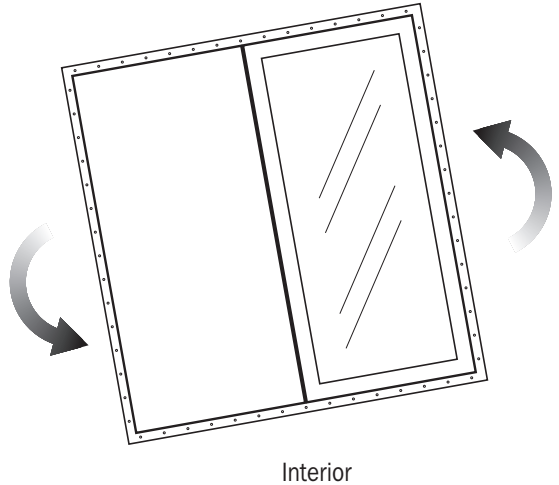
Lift operating panel up and tilt the bottom of the operating panel out to remove from the interior. Set carefully aside.



## Step 5

### Rotate entire patio door frame.

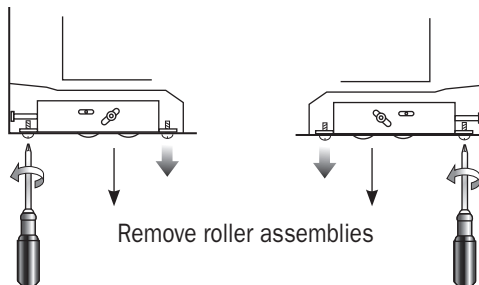
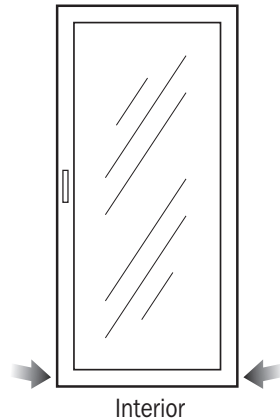
With operating panel set to the side, rotate the entire door frame (including stationary panel) to desired handing.



## Step 6

### Remove roller assemblies.

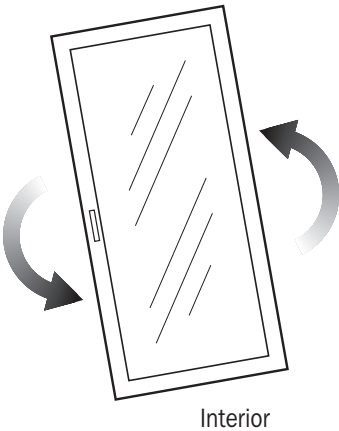
Remove both roller assemblies from bottom of the operating panel by removing two screws from the bottom of each roller assembly.



Assembled Patio Door

Step 7

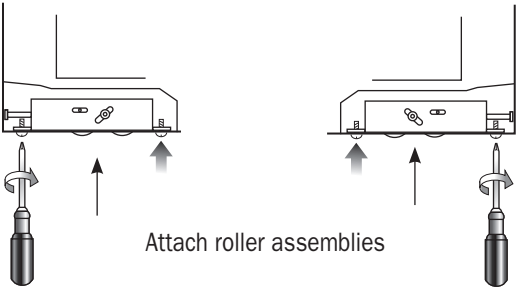
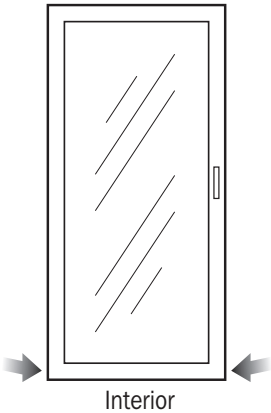
Rotate operating panel.



Step 8

Replace roller assemblies.

Attach both roller assemblies into the “new” bottom of the operating panel.

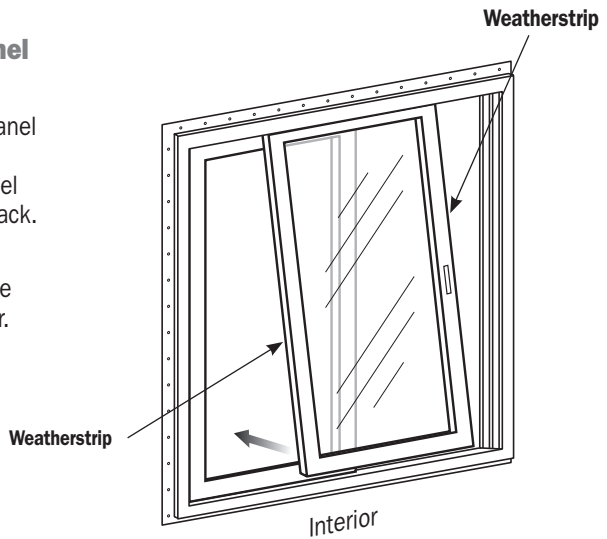


### Step 9

#### **Install operating panel from the interior.**

Place top of operating panel into interior track, then gently set bottom of panel in place in the interior track.

**NOTE:** Make sure the weatherstrip opposite the handle faces the exterior.



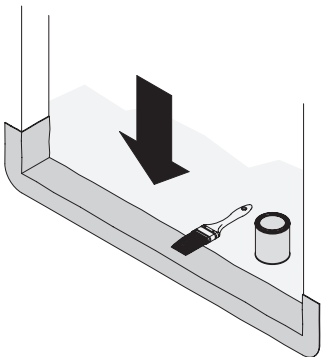
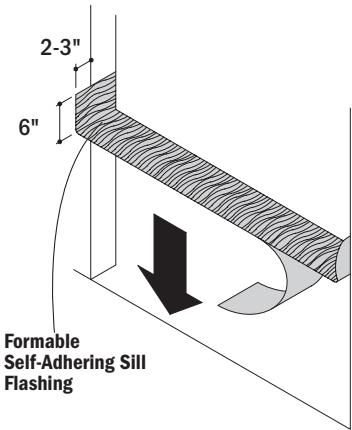
**IMPORTANT** - If installing door on a concrete slab, proceed to Appendix A, Step A1. Otherwise proceed to Step 10.

*(For Florida Impact Product, Please see Florida Product Approval Website)*

Step 10

**Apply formable self-adhering sill flashing.**

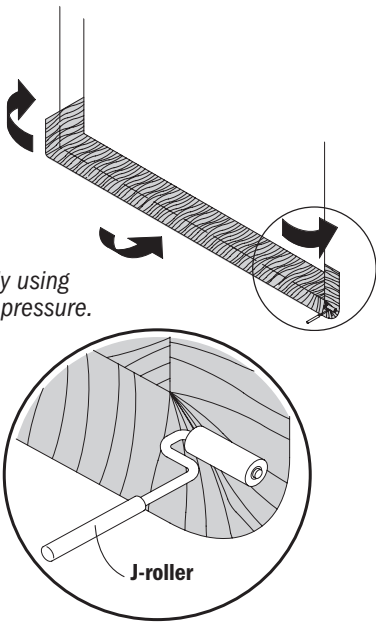
Apply formable self-adhering sill flashing. Use liquid flashing for slab concrete.



**CAUTION**

Apply formable self-adhering flashing. Make sure there are no wrinkles or voids. Failure to do so could result in product or property damage.

Apply using firm pressure.

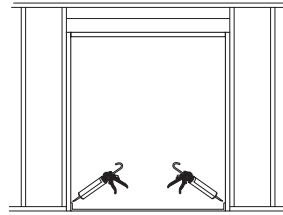


Liquid flashing recommended on concrete slab.

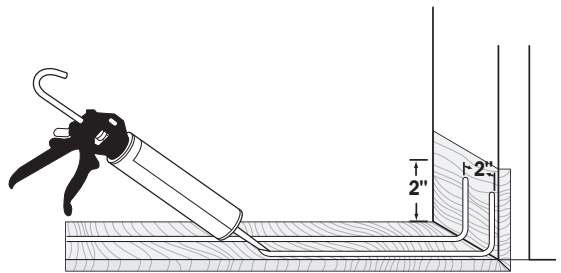
## Step 11

### Apply sealant to opening.

Apply two (2) 1/4" beads of exterior window/door grade sealant to sill and 2" up each side of rough opening. The exterior sealant bead should be at the exterior edge of the opening. The beads of sealant should be 2" apart.



Exterior



Exterior

Silver Line strongly recommends that you use formable self-adhering sill flashing or a rigid vinyl-based sill pan that is properly integrated to the building drainage plane. Follow the sill pan manufacturer's installation instructions.

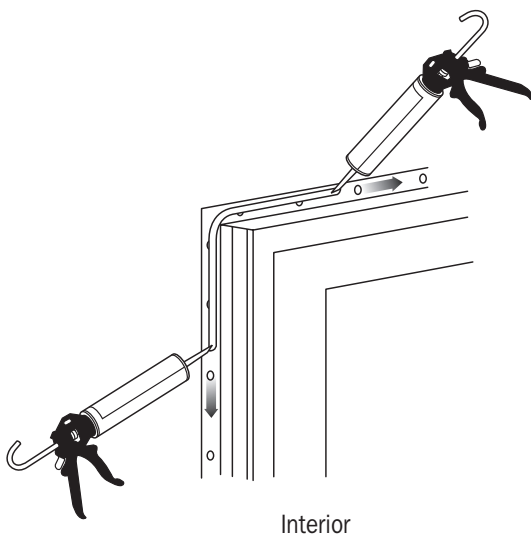
## Installation Guide

### Step 12

#### Apply sealant to nailing flange.

Apply 1/4" bead of sealant on the nailing flange covering the holes along the interior side where it will contact the opening.

NOTE: If recommended sill pan is used, do not apply sealant on the nailing flange on the sill of the door frame.



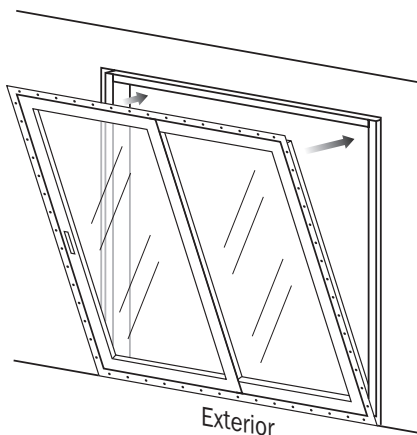
### Step 13

#### Place door in opening.

Place door into the opening from the exterior. Place sill of frame into place, then tip head into place.

NOTE: The nailing flange is closer to the EXTERIOR side of the frame. The narrow insect screen track is also on the exterior side.

NOTE: Be sure the nailing flange and sealant are tight against the exterior substrate before attaching the frame.

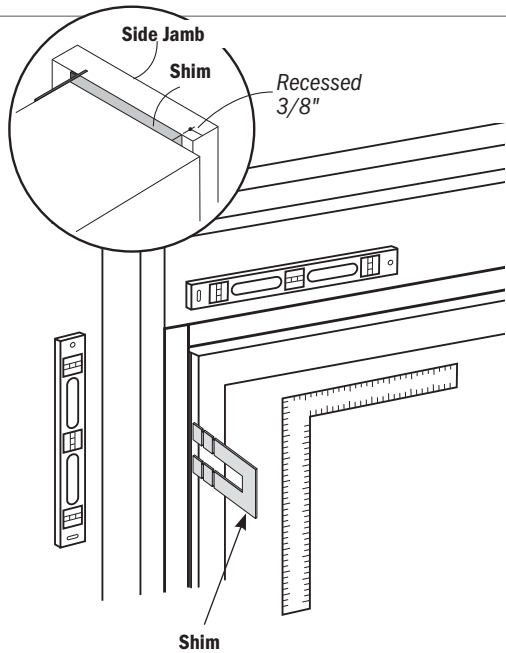
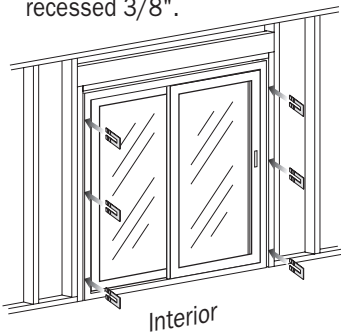




## Step 14

### Shim door frame.

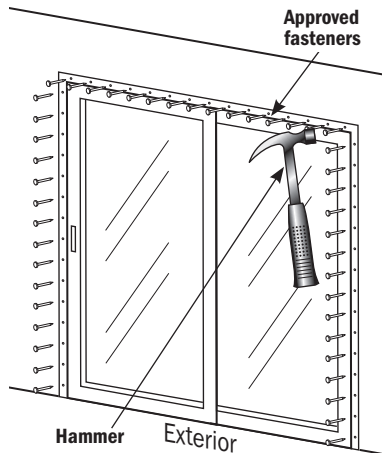
Shim so door frame is plumb, level and square. Diagonal measurements must be within 1/8". Shim at all pre-punched holes inside frame. Trim shims as needed. Shims must be recessed 3/8".



## Step 15

### Fasten into place.

Begin by fastening only the top right corner. Check for square and shim as necessary. Then continue fastening through the pre-punched holes, making sure fasteners have at least 1-1/4" penetration into wood framing.



**IMPORTANT** - If installing door on a concrete slab, proceed to Appendix A, Steps A2 and A3. Otherwise proceed to Step 16.

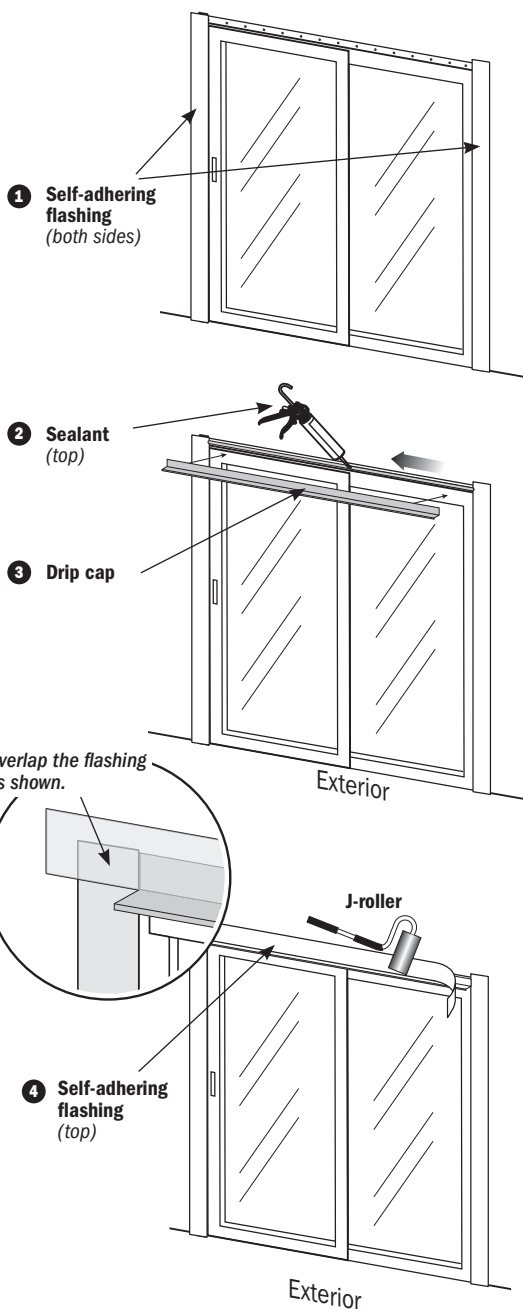
### Step 16

#### Apply self-adhering flashing and drip cap.

- 1 Apply self-adhering flashing to the sides first and make sure it extends beyond the top of the door.
- 2 Apply 1/4" sealant bead to top of unit where installation flange meets frame.
- 3 Place drip cap (full width) in sealant as shown.
- 4 Apply self-adhering flashing to the top over the drip cap leg, overlapping and extending beyond the side flashing as shown.

NOTE: Use J-roller to make sure the self-adhering flashing bonds properly.

**IMPORTANT** – To create a weathertight seal, make sure that the flashing fully covers the entire length of the jambs and head of the door around the door opening. Pay special attention to the corners to make sure there are no gaps in the flashing.

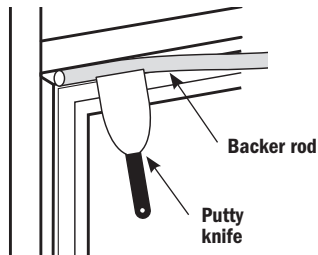
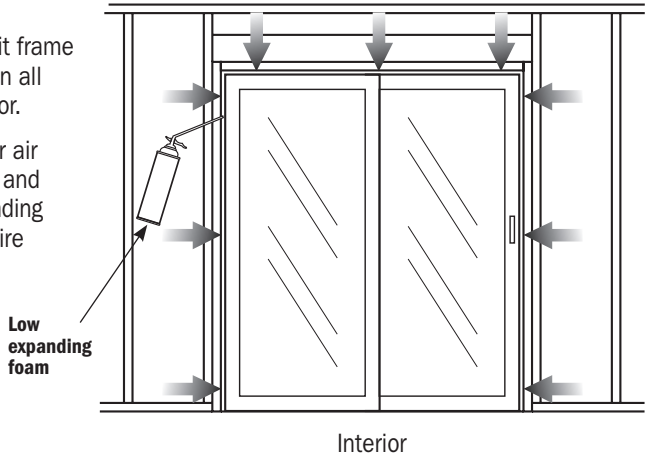


## Step 17

### Insulate door.

Insulate between unit frame and rough opening on all sides from the interior.

Complete the interior air seal with backer rod and sealant or low expanding foam around the entire interior of the door.



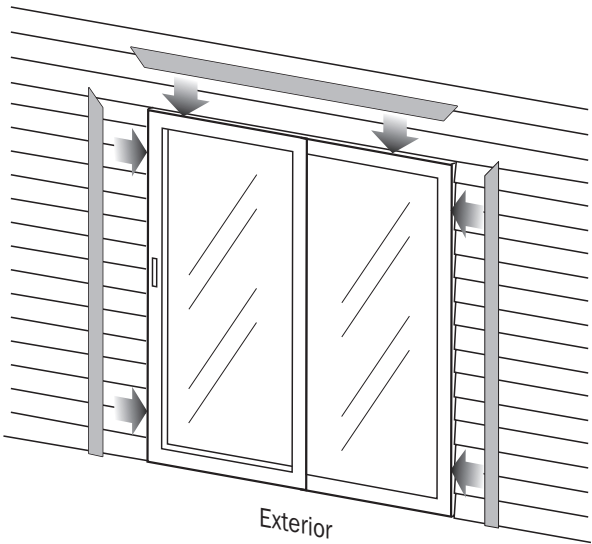
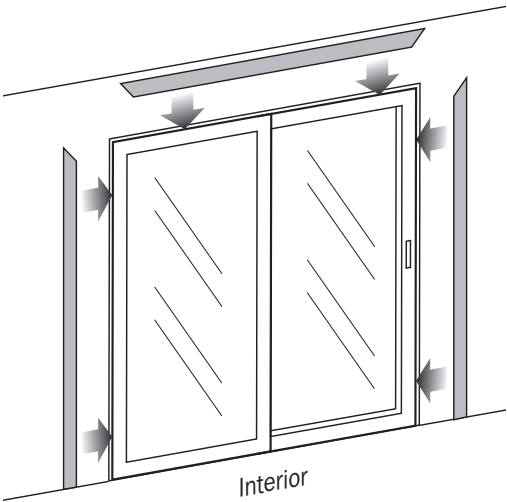
### CAUTION

When insulating between unit frame and rough opening or between units when joining, DO NOT overfill with minimum expanding foam sealant or overpack with backer rod. Bowed jambs will result affecting product performance and/or proper operation of unit.

Step 18

Apply trim.

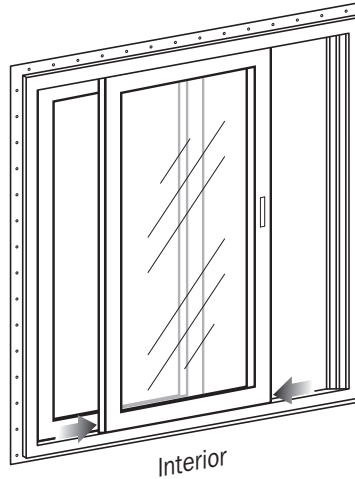
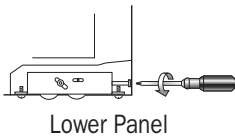
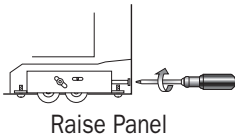
Apply interior and exterior trim as desired. Apply sealant to the perimeter of interior and exterior for a weathertight seal.



## Step 19

### Adjust operating panel.

Lift door panel slightly to minimize weight on rollers. Turn screws on sides to adjust rollers so that door panel is plumb with frame and door slides smoothly.

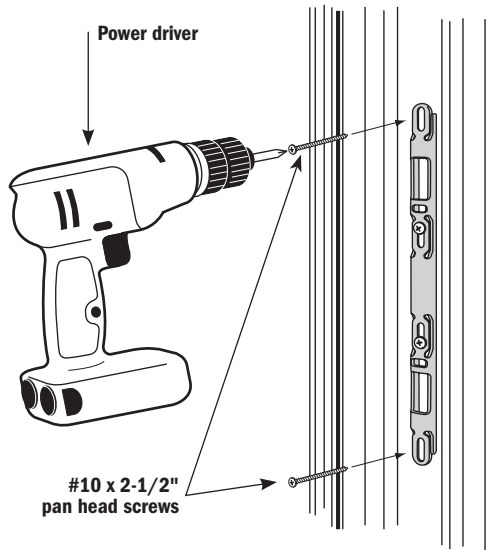


## Step 20

### Secure keeper to frame.

Insert two #10 x 2 - 1/2" pan head screws on both ends of the keeper as indicated to secure the keeper by penetrating through door frame into stud.

Remove the two 1" pre-installed screws from the center locations and replace with the provided 2 - 1/2" screws.



Step 21

**Install panel bumper.  
(Bumper located in side jamb next to head jamb)**

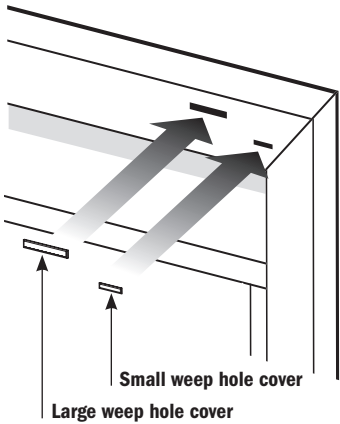
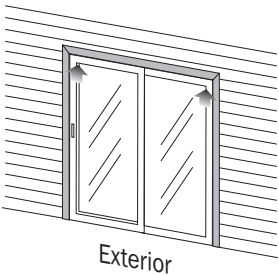
Snap panel bumper into place in interior track of head jamb next to side jamb to prevent handle from contacting stationary panel during operation.



Step 22

**Install weep hole covers.**

Install one small weep hole cover and one large weep hole cover by pressing into place in the pre-punched weep hole cover slots on the head of the exterior of the patio door frame. Repeat for other side.



**⚠ WARNING**

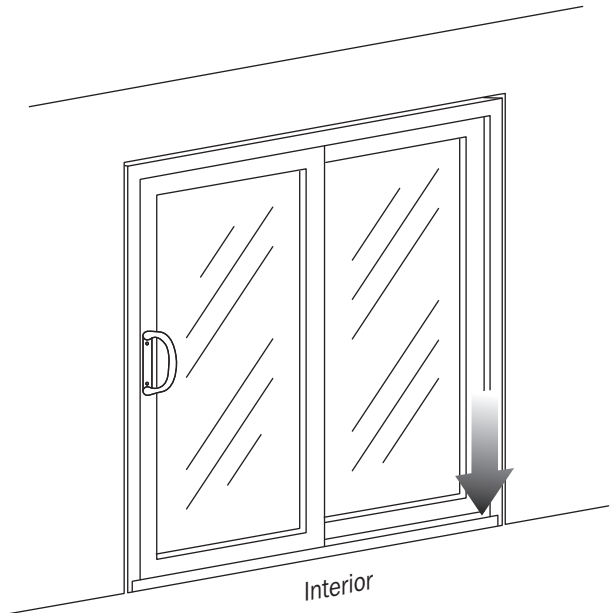
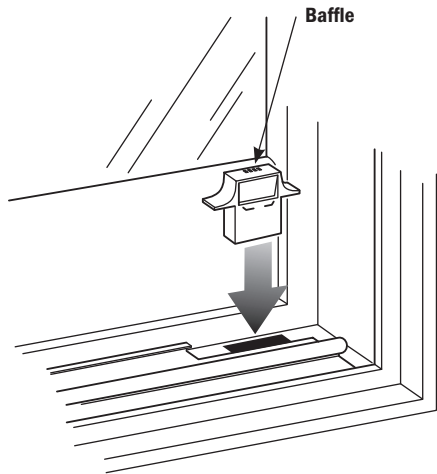
Windows and doors have small parts (e.g. hole plugs, operator spline caps, fasteners, etc.). Small parts if swallowed could pose a choking hazard to young children. Dispose of unused, loose, or easily removed small parts. Failure to do so could result in injury.

### Step 23

#### Install baffle.

Locate the interior of the sill on the side with the fixed panel and install baffle into the pre-punched weep slot by pressing firmly until the baffle clicks into place.

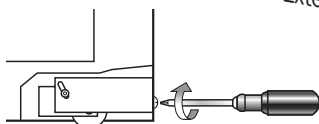
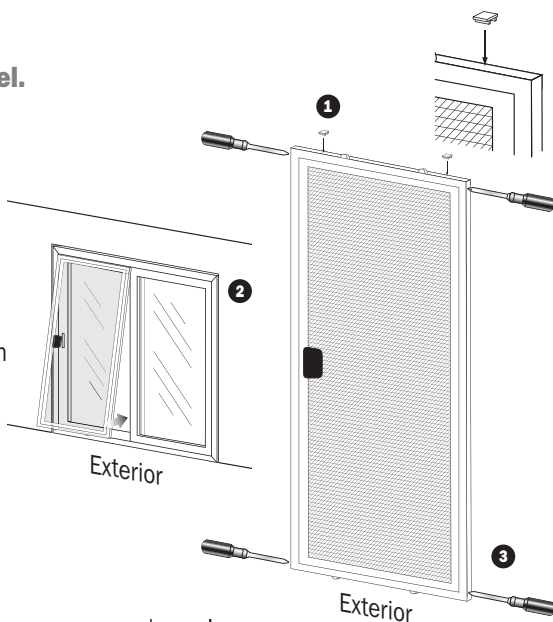
Note: The baffle flap needs to face the interior prior to installation.



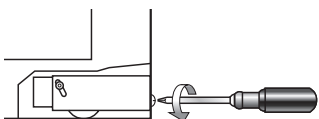
### Step 24

#### Install insect screen panel.

- 1 Push the two top guides into place on the top of the insect screen panel approximately 2" from each side.
- 2 Tilt the insect screen, put the top into the head track, then put the bottom into the sill track.
- 3 Adjust insect screen rollers so insect screen stays on track and operates smoothly.



Raise Insect Screen Panel



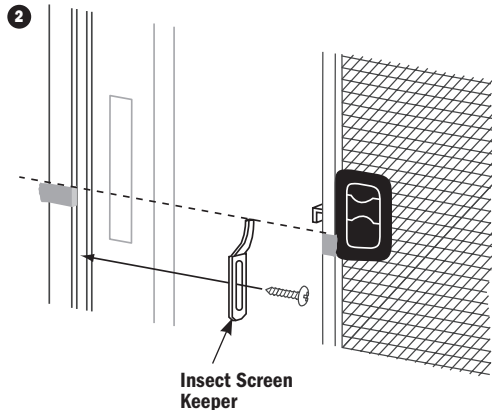
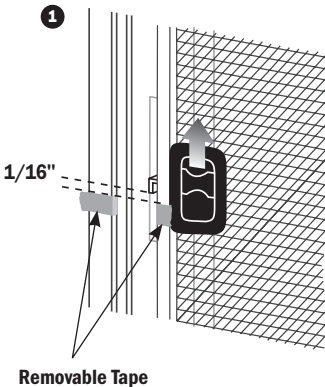
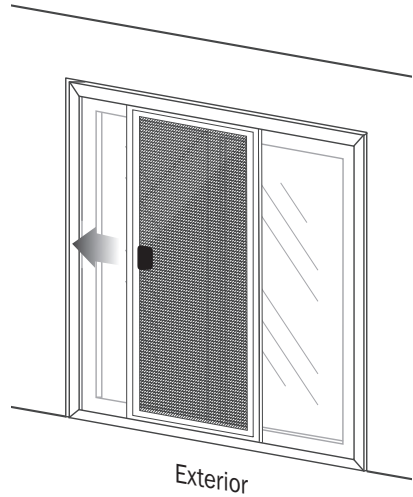
Lower Insect Screen Panel



## Step 25

### Install insect screen keeper into jamb track.

- 1 Push insect screen panel handle all the way up. Mark  $\frac{1}{16}$ " below bottom of insect screen latch with removable tape and transfer the mark to the door frame with removable tape.
- 2 Position top of insect screen keeper with mark on door frame. Insect screen keeper should be installed with the hook pointing up. Attach insect screen keeper using included screw.
- 3 Adjust insect screen keeper as necessary for easy latching and releasing.



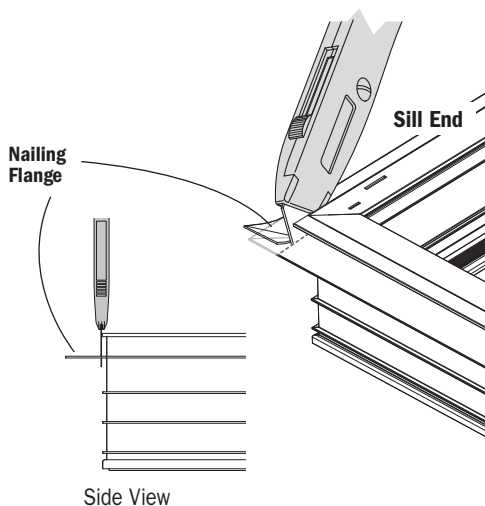
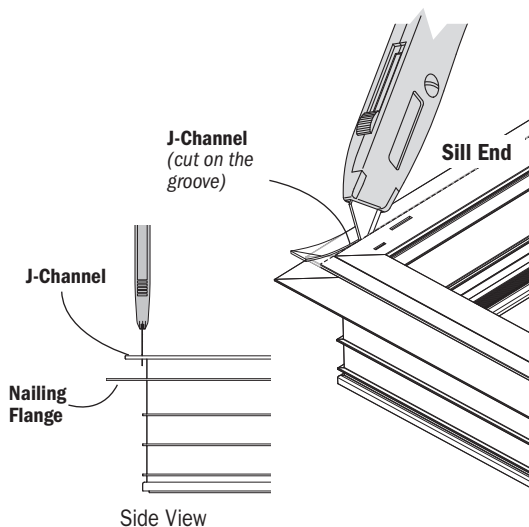
### Appendix A

#### Instructions for Slab Concrete Installation

##### Step A1

#### Remove J - Channel and Nailing Flange on the Sill.

- 1 Place frame, exterior side up, on a clean work surface.
- 2 Using the groove on the sill as a guide, remove the J - Channel using a utility knife.
- 3 Make sure the knife is straight with the bottom of the sill as shown. Cut and remove nailing flange.
- 4 Return to steps in guide for flashing and sealing the opening. **(Step 10).**

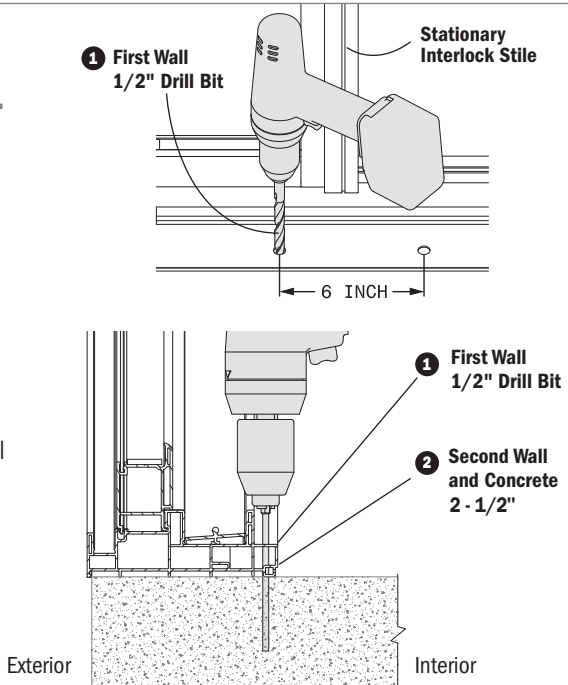


## Instructions for Slab Concrete Installation (continued)

### Step A2

#### Drill screw holes at sill.

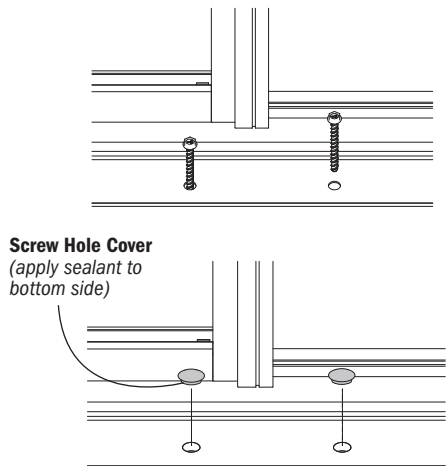
- 1 Using the stationary interlock stile as midpoint of the sill, drill two 1/2" holes on the interior of the frame as shown, through the first wall only.
- 2 Using concrete drill bit, drill through second wall and concrete as shown.  
(see *fastener chart*)



### Step A3

#### Fasten through drill holes.

- 1 Drive two concrete screws through previously drilled holes.  
(see *fastener chart*)
- 2 Apply sealant to the bottom side of the screw hole covers and insert into screw holes as shown.
- 3 Return to steps in guide for flashing and sealing door in the opening. (**Step 16**).



Appendix B

Instructions to Operate Optional Blinds Between the Glass

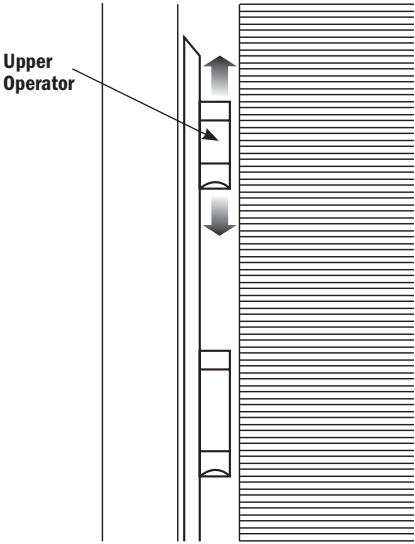
Step B1

Tilt the blinds.

To tilt the blinds, slide the upper operator up and down.

NOTE

For optimal operation of blinds, wait to adjust blinds for 24 hours after installation to allow the pressure between the panes of glass to equalize.



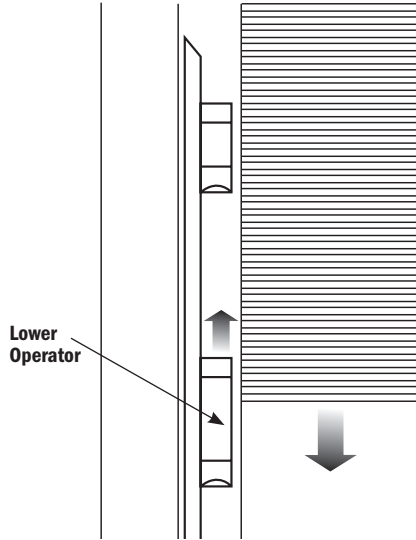
## Step B2

### Lower the blinds.

To lower the blinds, slide the lower operator up.

#### NOTE

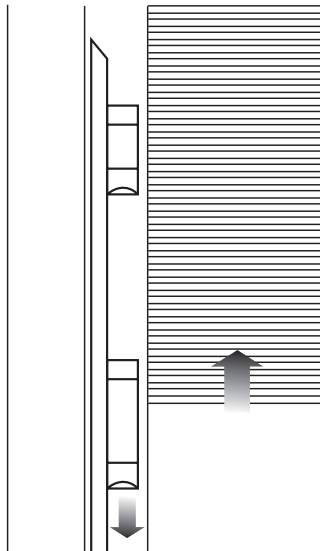
For peak performance, tilt the blinds to the open position before raising and lowering.



## Step B3

### Raise the blinds.

To raise the blinds, slide the lower operator down.

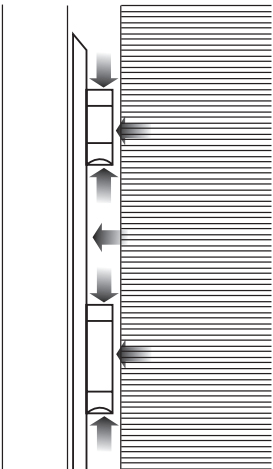


Optional Blinds Between the Glass Maintenance

Step B4

Keep surface clean.

For ease of operation, make sure the surface around the operators remains clean. Dirt can impact the smooth movement of the operators, requiring more force to adjust the blinds.



Step B5

Level blinds.

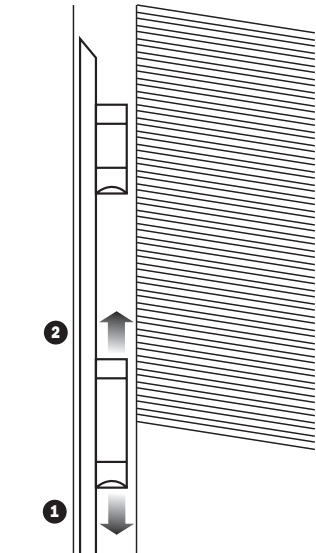
- 1 If the blinds are not level, slide the lower operator down to fully open the blinds.
- 2 Slide the lower operator up to lower and level the blinds. Repeat if necessary until the blinds are level.

Slide up

2

Slide down

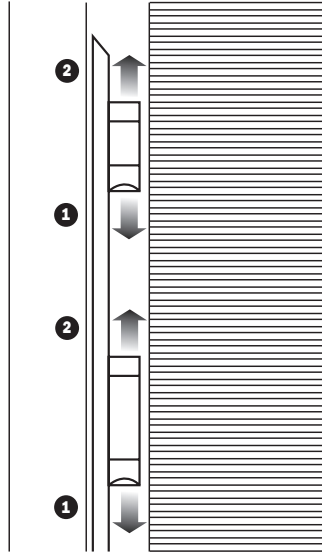
1



## Step B6

### Re-engage operator magnets.

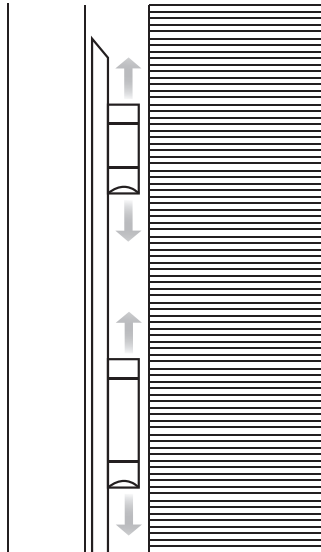
If the operator magnets become disengaged, the blinds will not operate properly. To re-engage the magnets, slide the operator that needs adjusting down as far as possible and then slide it up as far as possible. The operator will click into place when the magnets re-engage.



## Step B7

### Do not use excessive force or abrupt operation.

Excessive force or abrupt operation can damage the blinds. Smooth and easy sliding of the operators is recommended.





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