

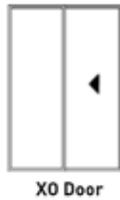


# 1200 Aluminium Series

Thermal-Control Sliding Patio Door

## Detailed installation instructions

GENERAL: Door elevations shown in these instructions are as viewed from the outside.



XO Door

'X' denotes the active or moving panel(s).

'O' denotes the inactive or fixed panel(s).



OX Door

All 2 panel doors between 72" to 88" high are fully reversible. The locking hardware on the operating panel is located at the mid-point of the panel unless otherwise requested. For 3 and 4 panel doors or alternate locking hardware options, refer to the supplemental instructions pages at the end of this document.

**ROUGH OPENING:** The rough opening should be made 1/2" wider and 3/8" higher (+/-1/8" each way) than the actual door frame size. (Refer to catalogue for frame sizes.) The sill or base of the opening must be solid, level, and of sufficient width and depth to support the entire door sill in a continuous and uniform manner. It is important that the opening be plumb and square as the door will not perform to its potential if installed into an improperly prepared opening.

### MAIN FRAME ASSEMBLY

The frame consists of 4 main aluminum members:

- (A) Head track. (B) Sill track.
- (C) Right hand jamb. (D) Left hand jamb.

All main frame members are machined so that they may be assembled in only one way. Lay out the framing members as shown on Diagram A.

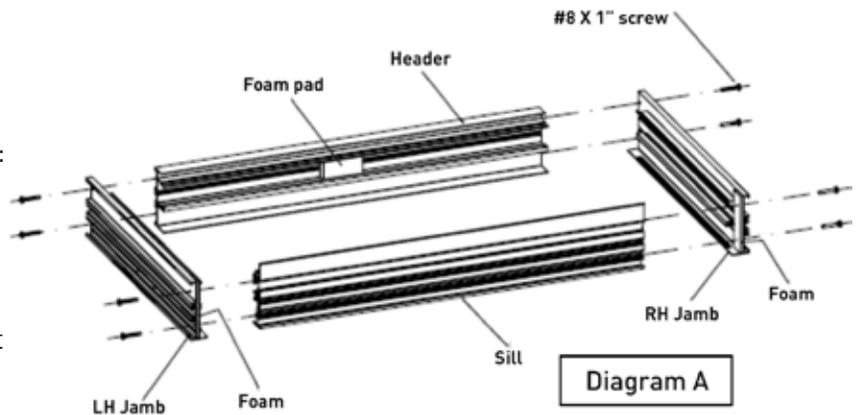


Diagram A

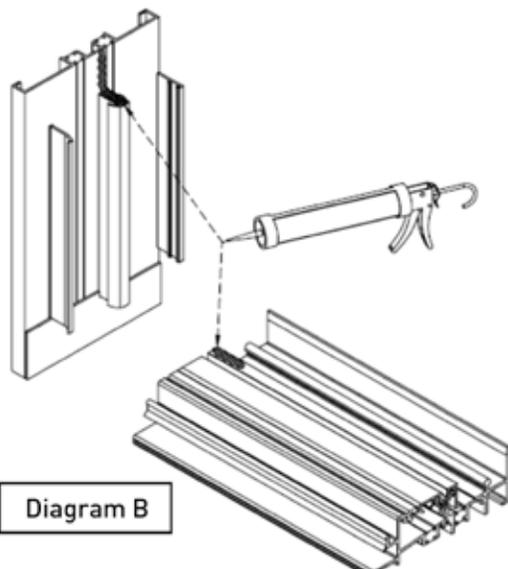


Diagram B

Prior to assembling the frame, wipe surfaces to be joined clean using isopropyl alcohol followed by a clean dry wipe and **apply urethane or butyl sealants at the corners as shown on Diagrams B.** (These sealants are necessary to create weather proof joints and will enhance the air and water performance of the door.)

Using the #8 X 1" screws provided fasten the head and sill to the jambs as shown on Diagram A, making sure the screws are drawn tight. **Back seal the head to jamb frame joints as shown on Diagram C.**

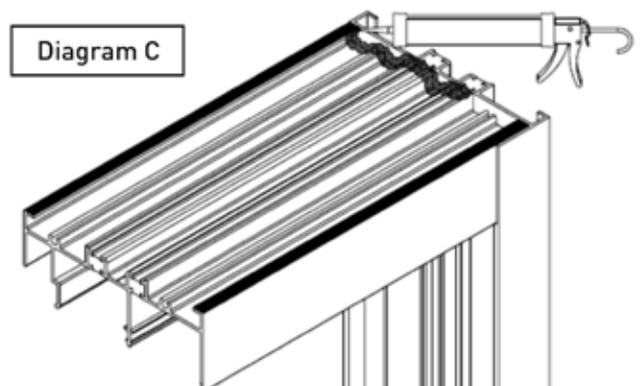
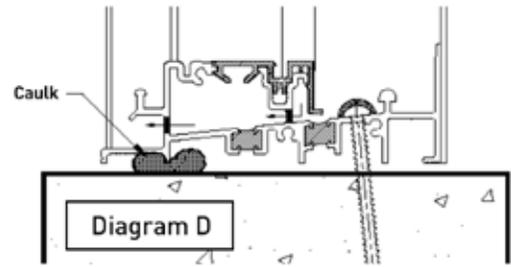


Diagram C

## FRAME INSTALLATION

The main frame is always installed with the sill sloping to the outside.

**Apply a heavy continuous bead of good quality caulking under the outside lip of the sill and insert the main frame into the opening as shown on Diagram D.** Centre the door frame within the rough opening leaving equal clearance at both jambs.



**The sill must be installed level and uniformly supported from**

**end to end and from front to back.** Use a level, and use solid shims if necessary to compensate for unevenness in the opening. **At a minimum, fasten the sill to the surrounding structure at each meeting rail or parting rail.** Use brackets or angles that do not puncture the top of the sill if possible but if the use of screws cannot be avoided, ensure they are back sealed and covered with tooled sealant. They must be waterproof.

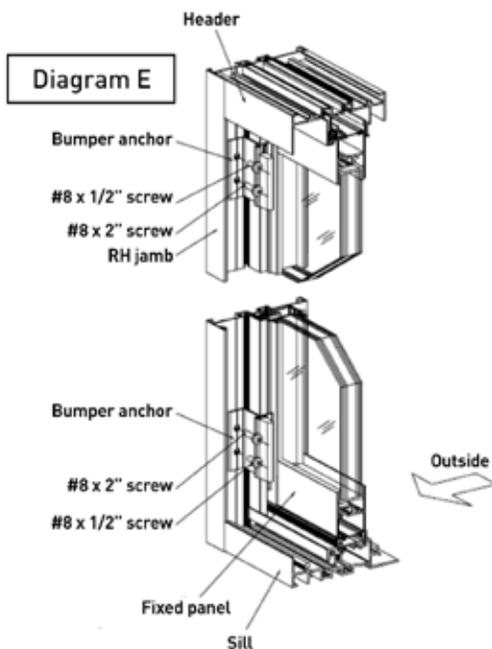
**At a minimum, the head must be anchored at each meeting or parting rail and within 6" of each corner. The jambs must be fastened within 6" of each corner and at mid span, but more for oversized doors. We strongly recommend that fasteners are installed in both the inner and outer tracks on the head and jambs.** For security it is recommended to install solid blocking between the jamb and the surrounding structure at the lock keeper location and to put installation screws through and directly above and below the keeper. All screws must engage the surrounding structure a minimum of 1".

With the exception of the large installation holes at the top and bottom of the jambs that are also used to attach the fixed panel bumper clip, it is the responsibility of the installer to drill the installation holes.

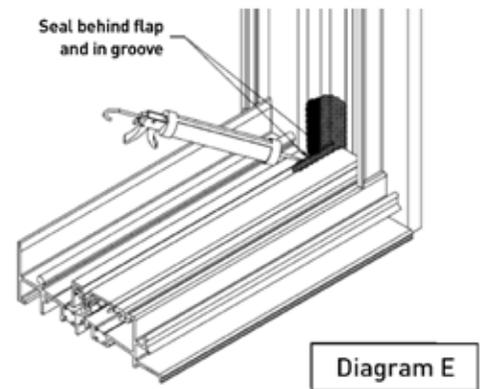
Set shims behind frame installation holes to make the main frame plumb and square then temporarily fasten the frame to the surrounding structure. Using a level and measuring diagonally, check that the frame is straight, plumb and square, make adjustments to the shims if necessary, and securely fasten all screws, with the exception of the jamb top and bottom screws on the fixed panel side.

**NOTE: For installations in high rise buildings or high wind areas, attaching to window systems, or when using oversized doors, the quantity, size, type, and engagement of the fasteners and the supporting shims must be engineered and is the responsibility of the installation contractor.**

## INSTALLING THE FIXED PANEL – 2 PANEL & 4 PANEL DOORS



**Apply urethane or butyl sealant into the groove on the sill and into the bottom corner as shown on Diagram E.**



Lift the fixed panel into the centre track of the frame head and carefully lower onto the sill as shown on Diagram F.

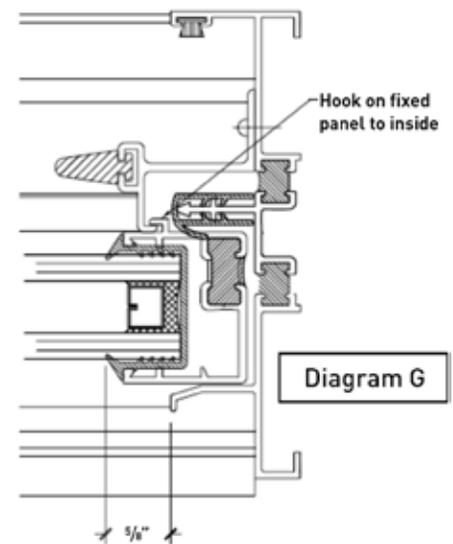
Push the fixed panel securely and completely into the jamb as shown on diagram G. **Take measurements to ensure that the glass line is no more than 5/8" from the frame track.**

You may need to use silicone spray along the sill and up the jamb to fully engage the panel. The meeting rail with the wool pile weather stripping should now be in the middle of the door facing inside, and the hook on the fixed rail for the fixed panel bumper clips going into the jamb should be facing inwards. (See diagram G)

Remove the temporary installation screws at the top and bottom of the fixed panel side jamb. Hook the fixed panel bumper clips onto the fixed panel and into the jamb as shown on Diagrams F & G. Re-install the installation screws through the large pre-punched holes in the clip and the jamb into the surrounding structure. Install additional screws through the smaller holes provided into the structure.

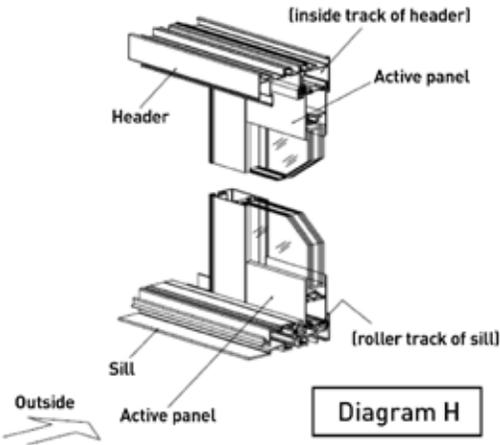
**NOTE: The bumper-anchor clips should nest easily into the jamb without forcing or bending. If not, this indicates that the fixed panel is not fully engaged into the jamb pocket. (refer to dimensions shown on Diagram G) Re-install the fixed panel if necessary.**

There are large dust plugs factory installed at the top and bottom of the meeting rail on the fixed panel to fill the gap between the interlock hook and the top and bottom frames. **Ensure that these plugs fill the gap completely.** Replace if necessary before installing the operating panel. These seals are essential for water and air performance.

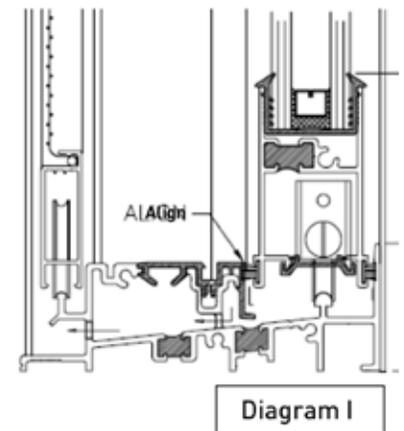


## INSTALLING THE OPERATING PANEL

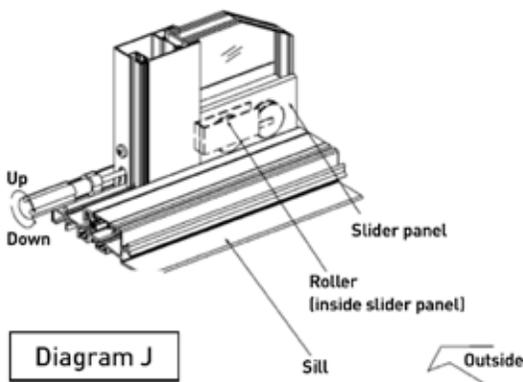
Lift the active panel into the inside track of the frame head and carefully lower the panel onto the roller track of the sill frame as shown on Diagram H.



Using a hand held screw driver, adjust the rollers up or down to align the top of the weather stripping on the outside of the bottom rail to the top of the sill, but not higher, as shown on Diagram I.



Turn the screw clockwise to raise the panel or counter clockwise to lower the panel as shown on Diagram J. **NOTE: We recommend lifting the panel slightly when adjusting the wheels for ease of turning and to ensure against stripping the adjustment mechanism.**



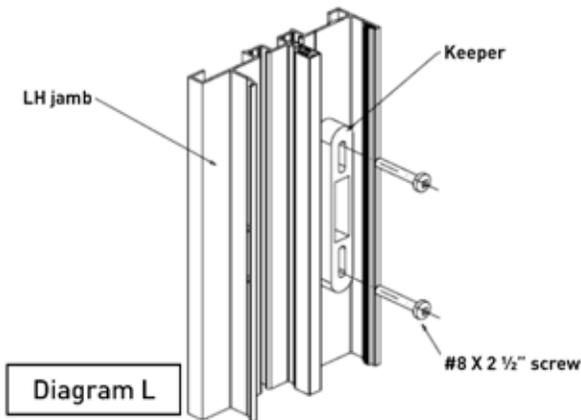
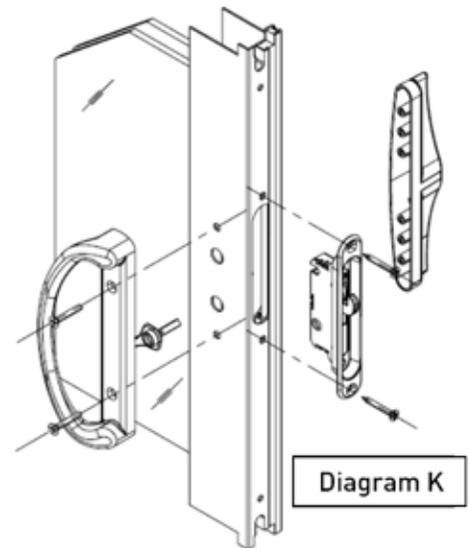
Slide the panel in the closing direction to within 1/4" of the jamb. Visually, the joint between the panel and the jamb should be uniform from top to bottom. If not, adjust the panel downward at one corner until the panel aligns to the jamb. If the jamb is bowed, remove installation screws, adjust the shims, and re-fasten.

## HARDWARE AND KEEPER INSTALLATION

All hardware for locking the door is packaged separately. Follow the instructions enclosed in the hardware package for one of the following hardware options provided. Only after the panels have been adjusted as previously noted, attach the operating mechanism, handles, and lock keeper as follows:

**Elite Lock:** Standard for 2 panel doors only. Attach the operating mechanism and handles to the lock rail as shown on Diagram K. Ensure that the striker hook is facing upwards.

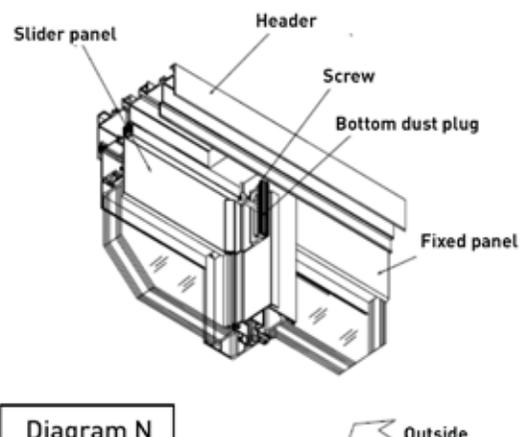
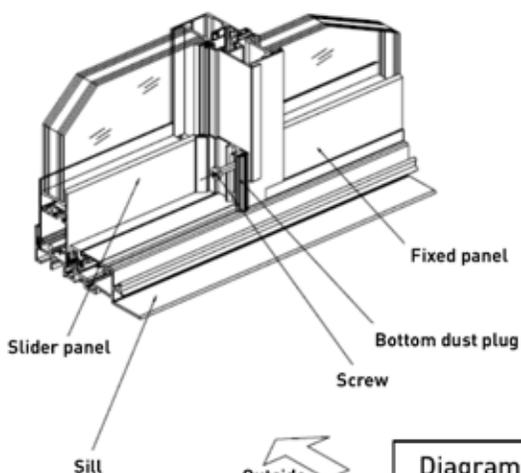
To locate the latch keeper on the jamb, first open the operating panel, then nest the keeper into the lock mechanism, and engage the thumb turn to hold the keeper within the lock mechanism. Remove the backing on 2-sided tape on the keeper and firmly close the panel into the jamb. Disengage the thumb turn and slide away the operating panel. The latch keeper should be held in the jamb by the 2-sided tape.



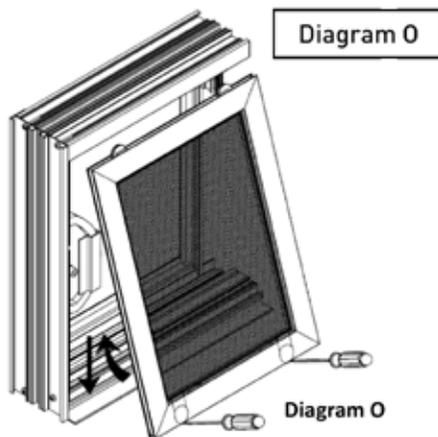
Attach the keeper to the jamb with 2 self drilling tek screws (or drill clearance holes, insert solid shims between the jamb and the opening, and drive long screws into the surrounding structure if possible). NOTE: Install the screws through the centre of the adjustment slots in the keeper to allow for future vertical adjustments if necessary. See Diagram L.

## METAL DUST PLUG ADJUSTMENT

The inactive panel is shipped with the dust plugs factory installed in the “backed-off” position. After the door is completely aligned and adjusted, apply a small bead of sealant along the outside edge of the fixed panel meeting rail where it contacts the sill, ensuring the grooves in the PVC sill cover leading under the fixed panel are sealed. Loosen the panel assembly screws and raise or lower the metal dust plugs so that they fit tight against the head and sill of the door frame and re-tighten the screws. See Diagrams M & N.



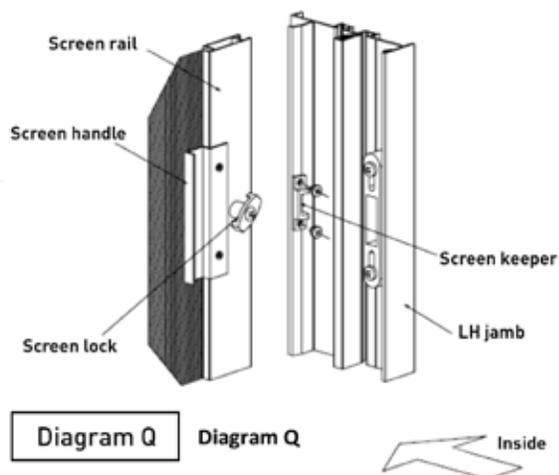
## SCREEN INSTALLATION – 2 PANEL AND OXO DOORS



Before loading the screen, back-off all four wheels by turning the adjustment screws counter clockwise as shown on Diagram P.

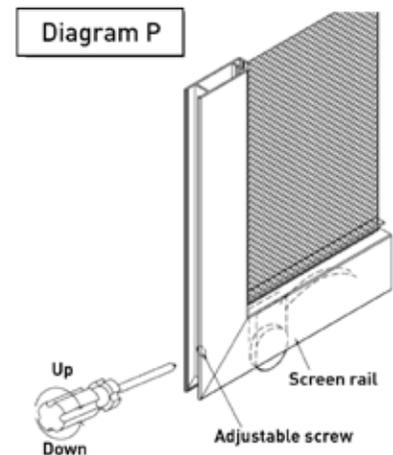
Insert the screen in the outside track of the frame head, swing the bottom of the screen towards the sill, then depress the bottom rollers with a flat head screw driver or spatula and snap the rollers over the sill screen track. See Diagram O.

Slide the screen in the closing direction to within ¼" of the jamb. Visually, the joint between the screen and the jamb should be uniform from top to bottom.



Using a screwdriver adjust the rollers on the bottom of the screen upwards or downwards to align the screen as shown on Diagram P. Adjust the top rollers just enough to snug the screen in the top track and allow easy rolling.

For 2 panel and 3 panel doors install the spring loaded clasp and keeper as shown on Diagram Q.



## CAULKING

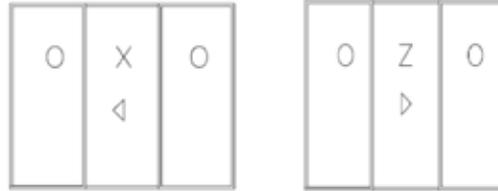
Use a good quality building sealant that is compatible with the aluminum surfaces of the sliding door and the surrounding structure. It is important that all aluminum surfaces to be caulked are free of smut, dust, and grease and are well cleaned with an isopropyl alcohol solution followed by a clean dry wipe. Depending on the sealants being used, a primer may also be necessary. Check the application with your sealant supplier.

## CLEANING

Remove all debris and vacuum all dirt and filings from the sill. Using a mild soap and water solution, clean all metal and glass surfaces. Do not use solvents or harsh cleaners as they may damage the aluminum finish surfaces.

# 3 PANEL OXO AND OZO

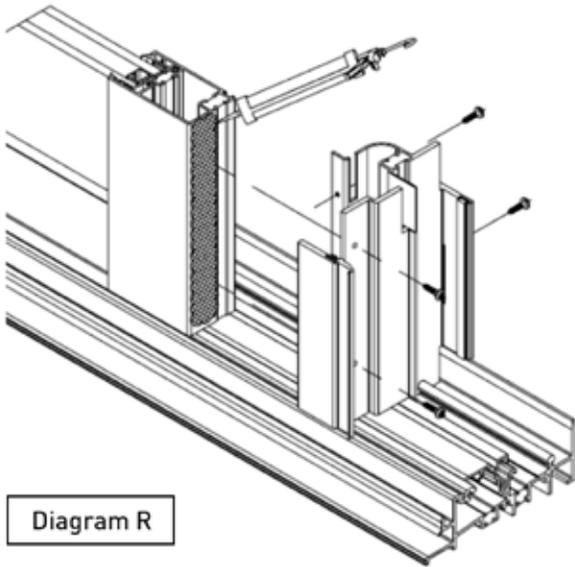
## SUPPLEMENTAL INSTRUCTIONS



### INSTALLING THE FIXED PANELS – 3 PANEL DOORS

For the fixed panel on the side that operating panel is sliding towards, follow the same procedure as with 2 panel doors.

For the fixed panel on the side that the operating panel is sliding away from: Install in a similar manner to the 2 panel door according to Diagrams E, F, and G. **Take measurements to ensure that the glass line is no more than 5/8" from the frame track.**



The wide rail without any hooks or weather stripping should now be towards the centre of the opening, and the hook on the fixed rail for the bumper-anchor clips going into the jamb should be facing inwards. (See Diagram G)

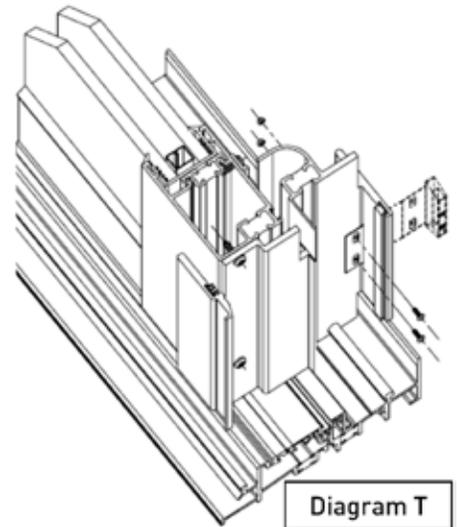
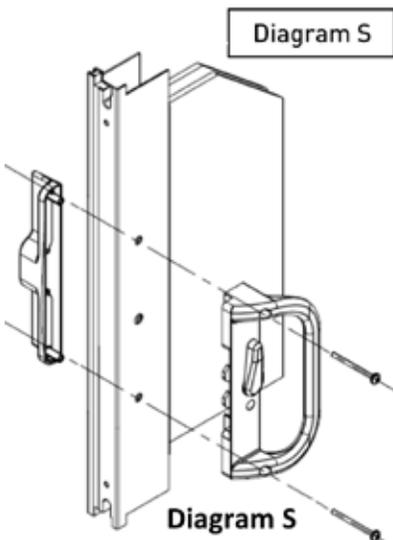
Apply a continuous bead of sealant along the leading edge of the fixed panel then attach the OXO mullion astragal to the wide rail of this panel using the #8 X 1/2" self drilling screws provided as shown on Diagram R. (NOTE: The mullion astragal is machined to be applied in only one way.)

For OXO and OZO doors, adjust panels and wheels in a similar manner as 2 panel doors aligning the operating panel to the mullion astragal or bi-parting astragal.

**SURFACE MOUNTED LOCK INSTALLATION:** Standard for all OXO and OXXO doors and as an alternate for 2 panel doors.

Attach the operating mechanism and handles to the lock rail as shown on Diagram S.

For 'OXO' doors center the tab on the keeper through the pre-punched slot on the OXO mullion astragal, drill clearance holes through the center of the slots on the tab, and fasten the keeper to the astragal using the machine screws and acorn cap nuts supplied. Ensure the large opening on the keeper is located at the top. See Diagram T. Close the panel slowly to check the lock engagement and adjust the striker height as necessary by loosening and re-tightening the screws.

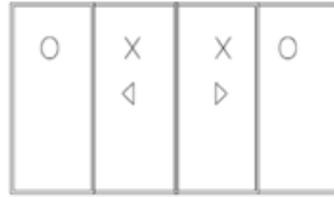


### SCREEN INSTALLATION – OXO DOORS

Follow the screen installation instructions for 2 panel doors and install the keeper on to the OXO mullion astragal.

# 4 PANEL OXXO

## SUPPLEMENTAL INSTRUCTIONS



### INSTALLING THE FIXED PANELS

Follow the 2 panel door instructions and repeat the procedure at both ends.

### INSTALLING THE OPERATING PANELS

For OXXO doors, install and adjust the panels in the same manner as a 2 panel door, then caulk and attach the bi-parting astragal bars to the vertical rails using the #8 X ½ self drilling screws provided as shown in Diagram U.

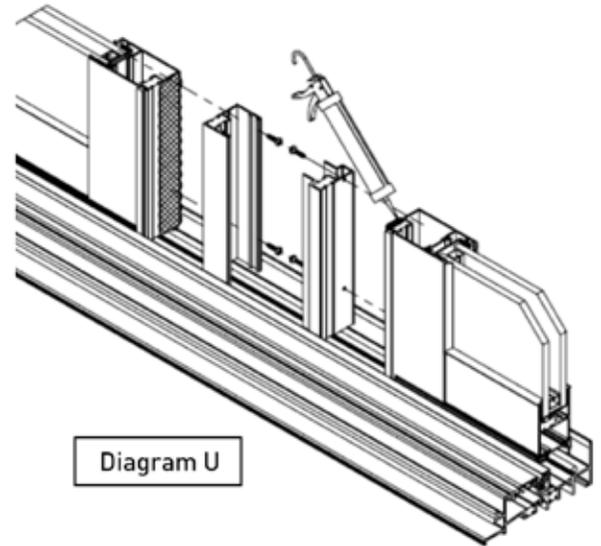


Diagram U

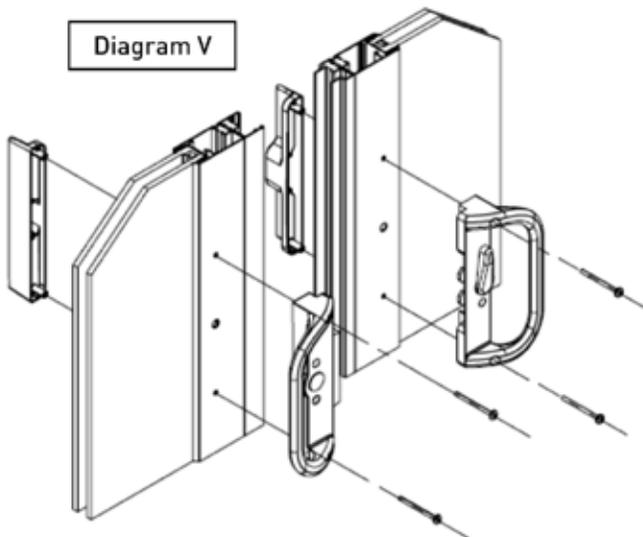


Diagram V

### SURFACE MOUNTED LOCK INSTALLATION

For 'OXXO' doors attach the active handle with the locking mechanism and the dummy handle with the keeper to the lock rails as shown on Diagram V. **Ensure the large opening on the keeper is located at the top.** It may be necessary to reverse the latching mechanism depending on the handing.

## SCREEN INSTALLATION – OXXO DOORS

Insert the screens in the outside track of the frame head, swing the bottom of the screens towards the sill, then depress the bottom rollers with a flat head screw driver or spatula and snap the rollers over the sill screen track as shown on Diagram O. Slide the screens in the closing direction to within ¼” of each other. Visually, the joint between the screens should be uniform from top to bottom. Using a screwdriver, adjust the rollers on the bottom of the screen upwards or downwards to align the screens as shown on Diagram P.

There are 2 mortise screen locks supplied with OXXO doors. Using a screwdriver, remove the striker from one of them to create a dummy lock and install this lock to one of the screens as shown on Diagram W. On this screen, attach the screen “H” bar as shown on Diagram W using 4 self drilling screws.

On the other screen, install the active mortise screen lock using the factory machined holes provided. With the striker latch in the open position, slide the screens close to each other, mark the location of the top of the striker in the screen “H”-bar, and position the keeper within the “H”-bar so that the striker will cleanly engage the keeper. Attach the keeper to the “H”-bar using the self drilling screws provided. Ensure the latch securely holds the screens locked and adjust the keeper up or down as necessary.

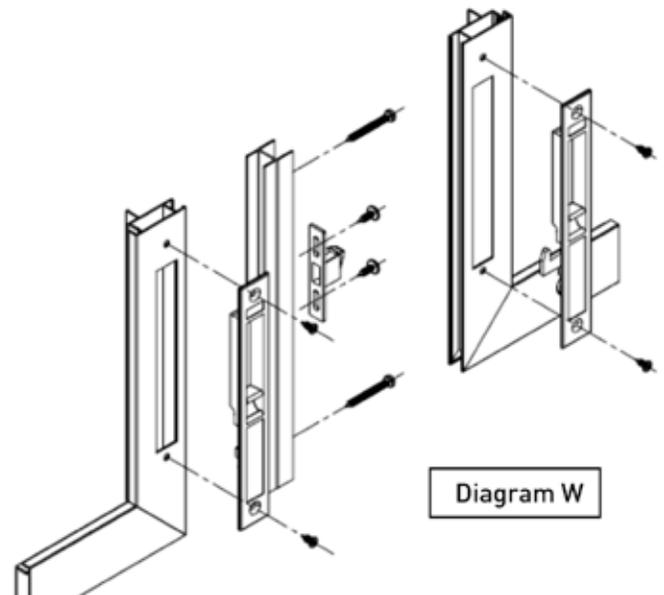


Diagram W

Diagram X



Viewed from outside



Latch for XO door



Latch for OX door

## ALTERNATE LOCKING HARDWARE INSTALLATION

**Mortise Lock:** Alternate for 2 panel doors only. Before assembling the hardware to the door, replace the straight striker latch attached to the inside hardware plate with one of the new offset latches supplied. One is for an ‘OX’ door, one is for an ‘XO’ door. The new latch will be bent in the direction of the room. Refer to Diagram X.

Attach the operating mechanism and handles to the lock rail as shown on Diagram Y. Install the keeper into the pre-punched holes in the jamb using the #8 X 1 ½” long screws provided to engage

into the surrounding structure. Use shims as necessary to ensure a solid connection.

With the striker latch in the open position, slide the operating panel within an inch of the jamb, mark the location of the top of the striker, and adjust the keeper so that the striker cleanly engages the keeper. Tighten the keeper screws, engage the latch, and check that the door locks securely.

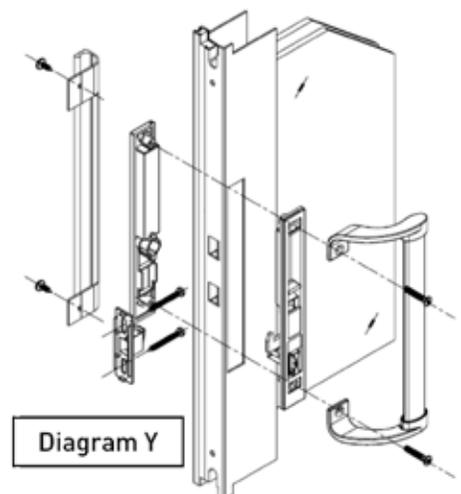


Diagram Y