



# Icon Sliding Patio Door Installation Instructions

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## Parts List:

- Outer Main Frame (Jambs-Head-Sill)
- Kit Frame Screws for Main Frame Assembly
- Frame Filler Strips (Varies by Door Style)
- Handles
- Door Bumpers
- Sill Riser (Required for Water Warranty)
- Head Cover
- Fixed Panel Clips (If Applicable)
- Fixed Panel Support (If Applicable)
- Fixed Panel Clip Cover (If Applicable)

## Required Tool List:

- Level 4' & 6' Suggested
- Tape Measure
- Sealant Gun
- High Performance Sealant
- Stringline
- Dead Blow Mallet
- Powered Driver & Hand Screwdriver (#2 & #3)
- Utility Knife
- Square
- Isopropyl Alcohol
- Installation Fasteners (See Schedule Based on Installation Method & Testing)

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Icon Sliding Patio Doors are shipped knockdown. Sills, jambs and head must be assembled before installing the frame in the opening.

This installation guide is for the Icon Sliding Patio Door. This installation guide does not cover the waterproof barrier to structure. Always have a copy of the Florida Product Approval to reference fastener size and type, fastener embedment, fastener edge distance and fastener placement. Florida Product Approval available at: <https://floridabuilding.org>.

Sealing and flashing strategies for overall water resistance of installation shall be done by installer or others following the current version of referred documents FMA/AAMA 100 (Fin Windows), FMA/AAMA 200 (Flange windows), FMA/AAMA 250 (Boxed windows), FMA/AAMA 300 (Exterior doors).

The panel designation X and O stand for the following X= operable panel O= fixed panel. Panel designations such as "A" "B" "G", etc. are designations for panel placement as viewed from outside. Follow the panel layout on shipping labels for proper panel placement.

It is the responsibility of the customer to inspect all material for condition and accuracy prior to installation. In the event of damage or missing parts contact your Custom Windows Systems representative.

It is the responsibility of the installing contractor to follow installation guidelines and details in accordance with testing and product approvals. Please refer to engineering details for proper fastener type, dimension, and spacing.

# IMPORTANT SAFETY AND PRODUCT INFORMATION – DOORS

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**CAUTION:** Many doors in older homes are painted with lead-based paint. Removal of old doors may disturb this paint. Proper precautions must be taken to minimize exposure to dust and debris. Consult state or local authorities and/or go to [www.epa.gov/lead](http://www.epa.gov/lead) for more information.

**⚠ WARNING:** To ensure safety and security and help prevent property damage, including possible damage to your window or door, close and lock windows and doors any time they are not being used for venting on a nice day, and particularly during high winds or rain.

## IMPORTANT NOTICE

Because all construction must anticipate some water infiltration, it is important that the wall system be designed and constructed to properly manage moisture. CWS is not responsible for claims or damages caused by anticipated and unanticipated water infiltration; deficiencies in building design, construction and maintenance; failure to install CWS products in accordance with CWS's installation instructions; or the use of CWS products in wall systems which do not allow for proper management of moisture within the wall systems. The determination of the suitability of all building components, including the use of CWS products, as well as the design and installation of flashing and sealing systems are the responsibility of the Buyer or User, the architect, contractor, installer, or other construction professional and are not the responsibility of CWS.

CWS products should not be used in barrier wall systems which do not allow for proper management of moisture within the wall systems, such as barrier Exterior Insulation and Finish Systems (EIFS) (also known as synthetic stucco) or other non-water managed systems. Except in the states of California, New Mexico, Arizona, Nevada, Utah and Colorado, CWS makes no warranty of any kind on and assumes no responsibility for CWS windows and doors installed in barrier wall systems. In the states listed above, the installation of CWS Products in barrier wall or similar systems must be in accordance with CWS's installation instructions. Product modifications that are not approved by CWS will void the warranty.

## CLEANING INSTRUCTIONS

**Glass:** Remove any protective film and labels and clean the glass, using a soft, clean, grit-free cloth and mild soap or detergent. Be sure to remove all liquid by wiping dry or use a clean squeegee.

**Aluminum Frames:** The interior and exterior frame and panels are protected with a tough factory finish. Clean this surface with mild soap and water. Stubborn stains and deposits may be removed with mineral spirits. DO NOT use abrasives. DO NOT scrape or use tools that might damage the surface.

**Vinyl Frames:** The vinyl frame may be cleaned using the same method as the glass. For stubborn dirt, a "non-abrasive" cleaner such as Bon-Ami® or Soft Scrub® may be used. Do not use solvents such as mineral spirits, toluene, xylene, naphtha or muriatic acid as they can dull the finish, soften the vinyl and/or cause failure of the insulated unit seal. Keep door tracks clear of dirt and debris. Keep weep holes open and clear of obstructions.

DO NOT use abrasives. DO NOT scrape or use tools that might damage the surface. DO NOT use inappropriate solvents or brickwash or cleaning chemicals. If you do, permanent damage can result and the product failure, loss or damage would not be covered by the Limited Warranty.

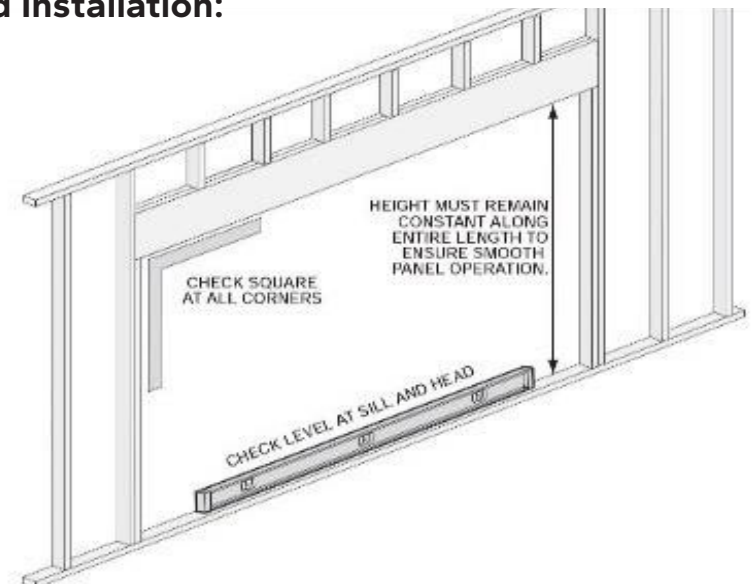
BY PURCHASING, INSTALLING OR USING CWS PRODUCTS (INCLUDES CWS GOODS AND CWS SERVICES), YOU AGREED TO THE TERMS OF THEIR RESPECTIVE LIMITED WARRANTIES AND YOU AND CWS FURTHER AGREE TO ARBITRATE DISPUTES ARISING OUT OF OR RELATING TO YOUR CWS PRODUCTS, AND YOU WAIVE ANY RIGHT TO PARTICIPATE IN A REPRESENTATIVE OR CLASS ACTION RELATED TO CWS PRODUCTS unless you notify CWS of your decision to opt out of the Arbitration Agreement no later than ninety (90) calendar days from the date you purchased or otherwise took ownership of Your CWS Goods. Opting out of the Arbitration Agreement will not affect the coverage provided by any applicable limited warranty pertaining to Your CWS Products.

For opt out information and additional details please read the Limited Warranty and Arbitration Agreement for your CWS Products at [www.CWS.cc/arbitration](http://www.CWS.cc/arbitration).

# 1

## Frame Preparation, Assembly and Installation:

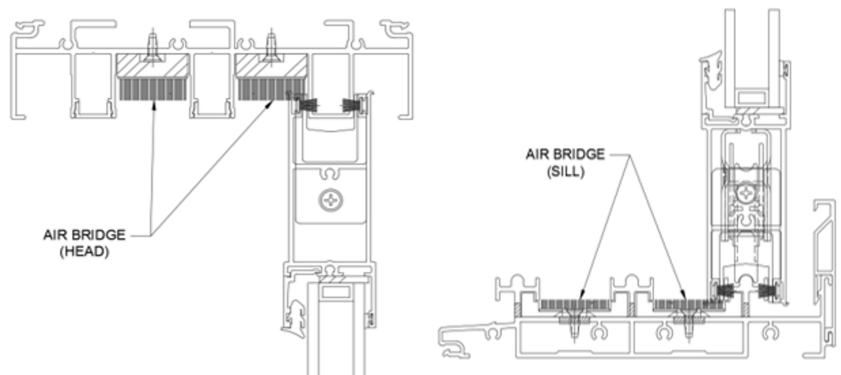
- A. **Always check frame measurements to opening measurements** and check for plumb level and square of opening.



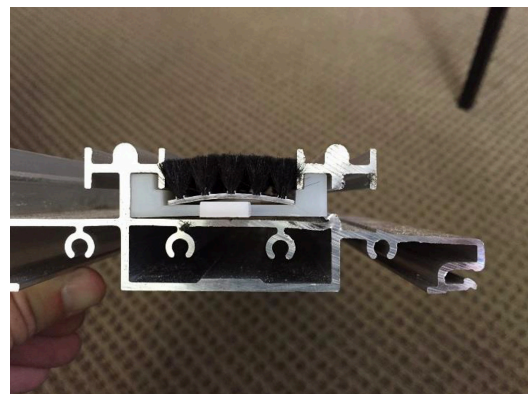
- B. **Sill needs to be level** with maximum 1/16" gap under level or straight edge. If larger, you will need to apply shims at attachment points. It is highly recommended all doors are installed into a recess in the concrete of 1-1/2" minimum depth to aid in the prevention of water intrusion.

**SHIMS MUST BE LOCATED AT EACH INSTALLATION ANCHOR USING LOAD BEARING SHIMS. MAX. ALLOWABLE SHIM STACK TO BE 1/4". USE SHIMS WHERE SPACE GREATER THAN 1/16" IS PRESENT. LOAD BEARING SHIMS SHALL BE CONSTRUCTED OF HIGH DENSITY PLASTIC OR BETTER. (WOOD SHIMS ARE NOT ALLOWED.)**

- C. **Air bridges must be inserted in sill prior to assembling frame** (Kit Pack K-5480). You will need to slide them in place on track after panels are installed and adjusted you will permanently mount in the air bridges to the sill, at each interlock, with #8 x 5/8" flat head screws included. Sealant must be applied at all attachment points.



Head (Kit Pack K-5481)

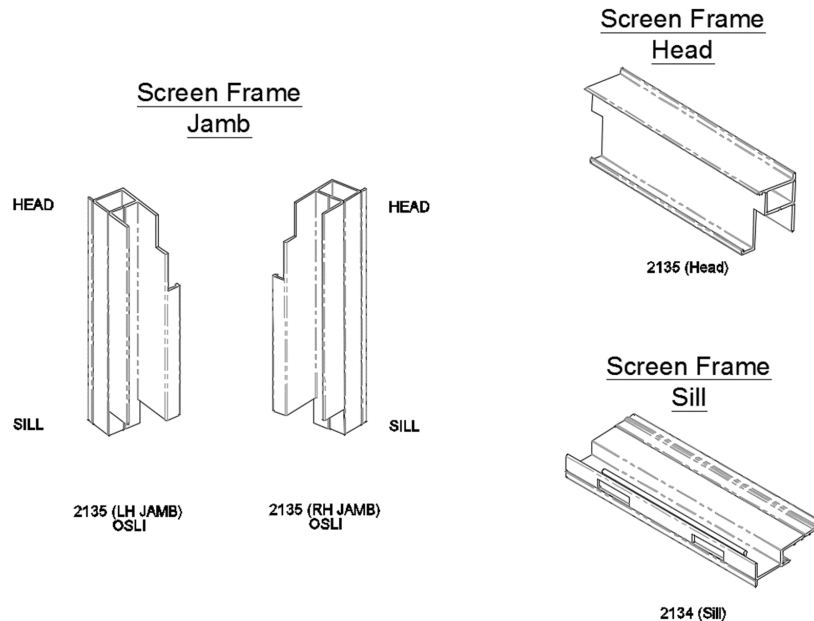


Sill (Kit Pack K-5480)

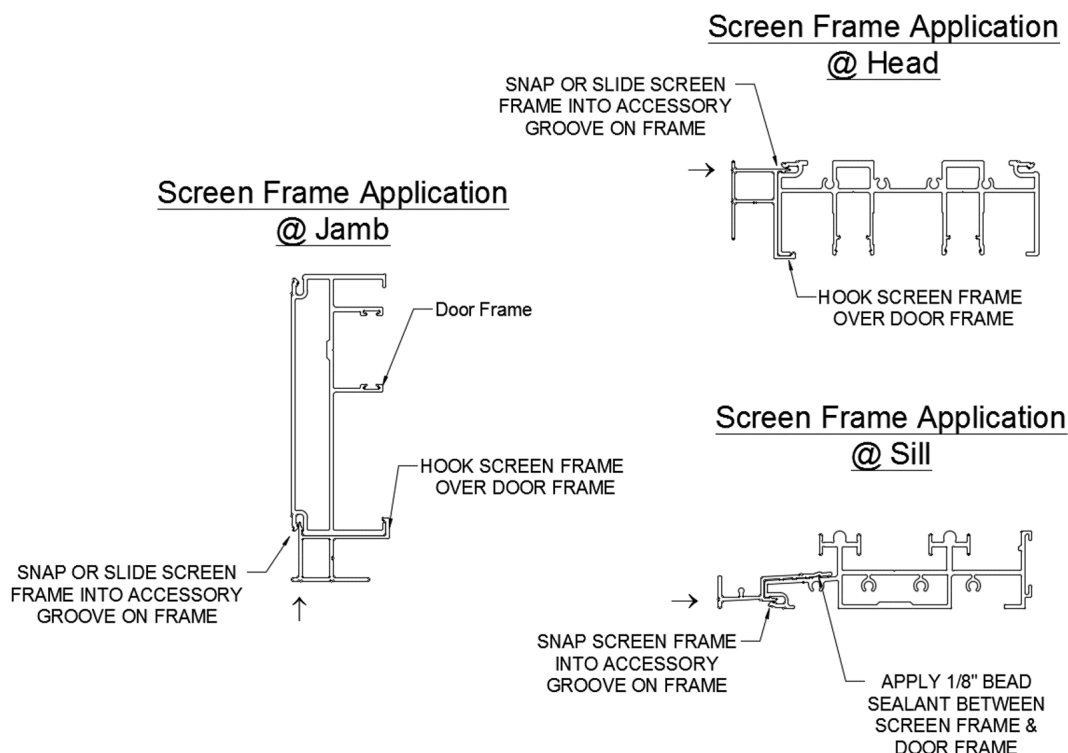
# 1

## Frame Preparation, Assembly and Installation (continued):

**Note:** If a single track screen was ordered, it is recommended to attach the screen frame profiles to the door frame profiles prior to assembling the door frame. confirm the screen frame notching orientation prior to attaching to door frame to ensure correct installation (see illustrations below). (If the door configuration is an OXO, please see Step 4A for location of screen astragal & frame.)



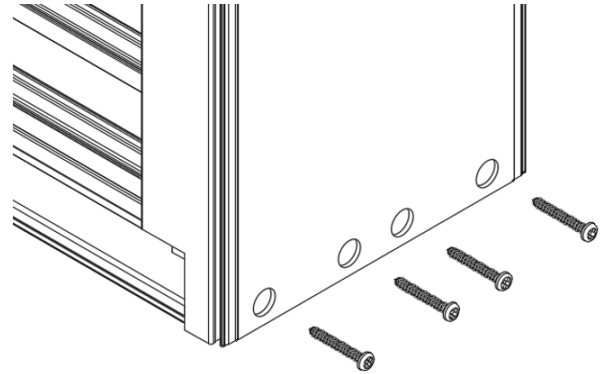
- D. The screen frame jambs can be slid onto the door frame profiles from the end or can be snapped onto the door frames by hooking the channel section over the door frame and using a non-marring dead-blow mallet to snap the screen frame jamb profiles into door frame accessory groove as shown below. Similarly, attach the screen frame head to the door frame head. Finally, apply a 1/8" bead of sealant to the underside of the screen frame sill and snap into the accessory groove of the door sill.



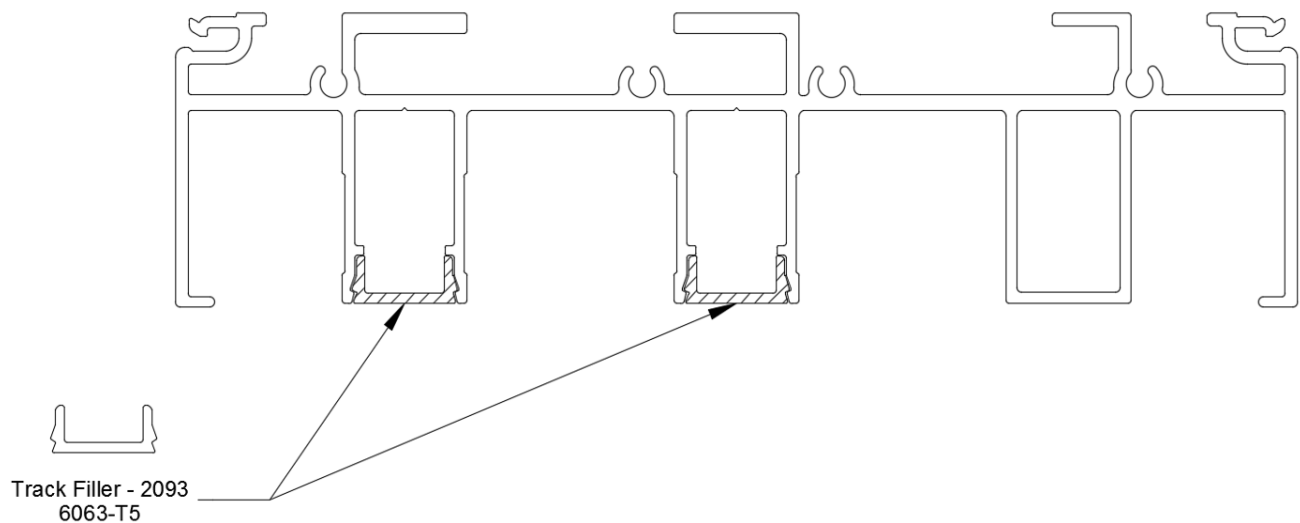
# 1

## Frame Preparation, Assembly and Installation (continued):

- E. **Frame Assembly:** Once all air bridges and screen profiles have been attached to the frames, the frame is ready to be assembled. Check to ensure frame gaskets at head & sill of jamb are in place prior to assembly. Apply sealant at all attachment points. Install fasteners (Kit Pack 4138K22 - #10 X 1.25" pan head screws, included) into screw boss at jamb bottom and jamb header. It is recommended to place each corner of the frame on a support structure while mechanically fastening the frame to avoid unnecessary finish damage to frame. Do not over tighten frame fasteners in screw boss.



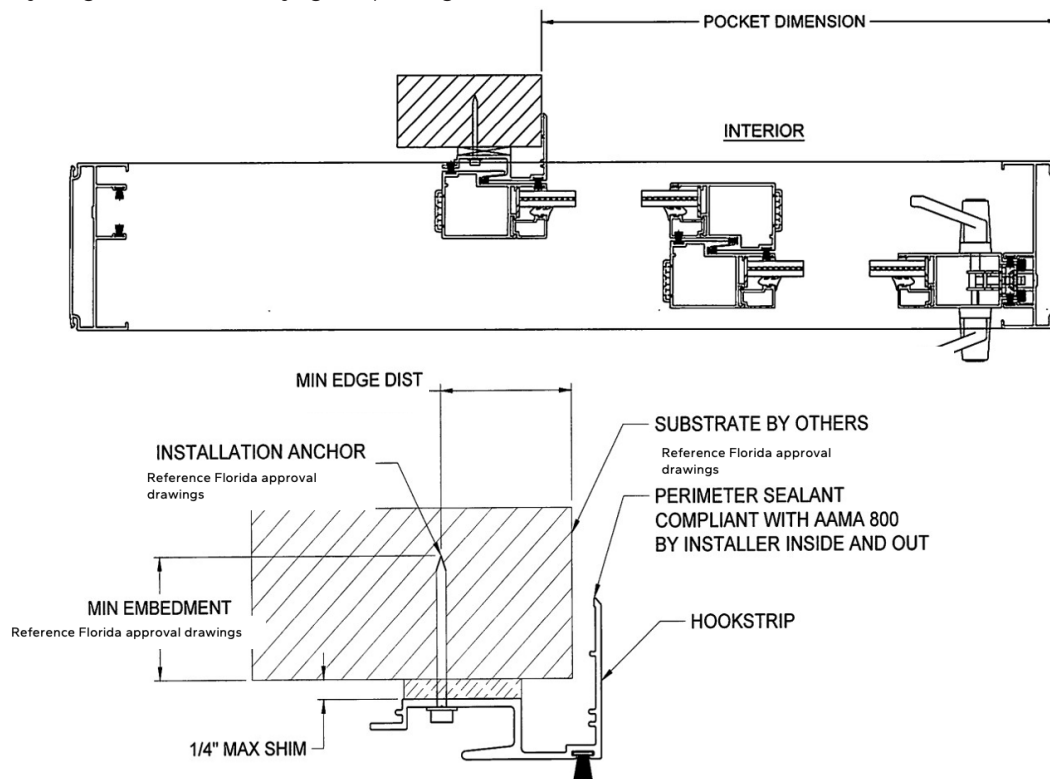
- F. **After main frame is assembled,** dry fit the Icon Sliding Patio Door frame, mark and drill installation holes located on sliding glass door frame. In some applications additional installation holes may be required. It is very important to determine reveals, both interior and exterior, at this time. Any further protrusion will not allow proper fastener installation. After dry fitting, remove the frame and clean all surfaces before installing the frame to eliminate any water intrusion under the frame. (Refer to anchor details <https://floridabuilding.org> for required type edge distance.)
- G. **Apply three, 3/8" beads of high-quality sealant** to the entire length of sill and 12 inches up each side on the substrate. It is good practice to clean frame with isopropyl alcohol to achieve proper adhesion to frame to substrate. Must apply small amounts of sealant at each and screw penetrating at sill locations.
- H. **Set frame in opening and shim as necessary** to make frame plumb, level, and square. Shim behind all frame jamb and header installation screws and near mortise keeper to prevent frame from distorting when installation screws are tightened. It is recommended to pull string lines horizontally, vertically, and diagonally across the frame prior to final setting of fasteners to ensure level, plumb and square. Fasten with appropriate concrete anchors or wood fastener based on substrate.
- I. **Track filler (# 2093)** to be installed in frame head after anchors are installed and building department has inspected fasteners.



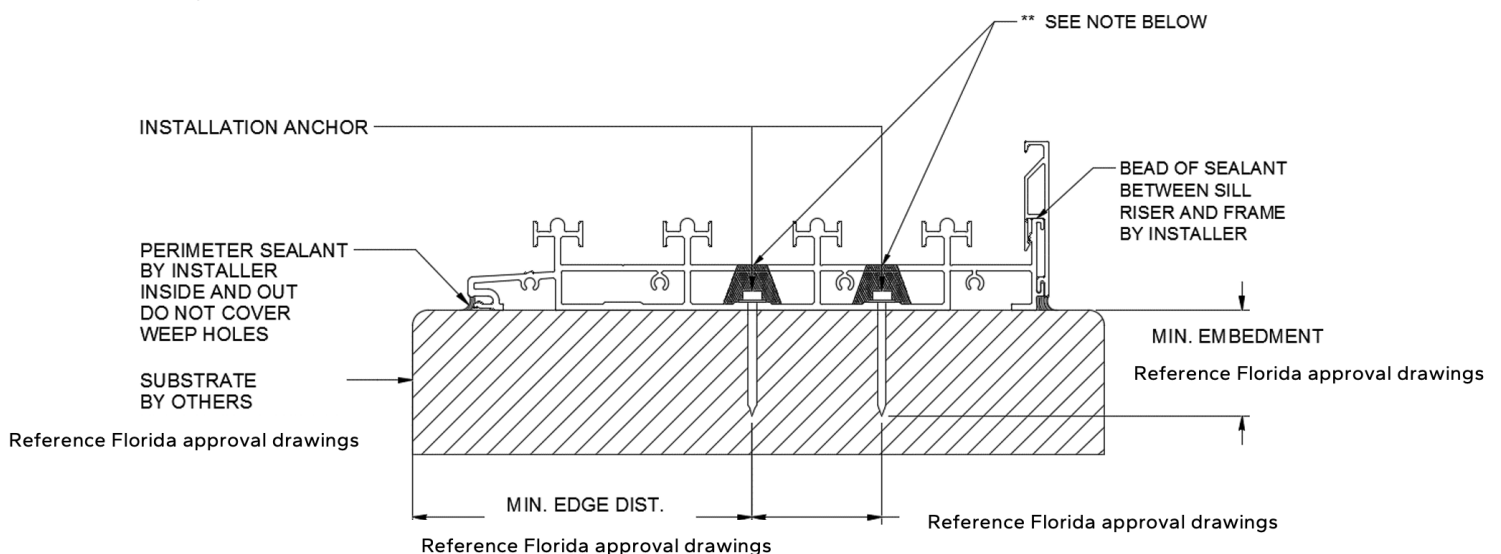
# 1

## Frame Preparation, Assembly and Installation (continued):

- J. **Pocket Door Installation:** Installer will determine hook strip placement by taking measurements from outside of frame jamb to inside of hook strip as shown in diagram below for pocket dimension. Pocket dimension may be obtained by original order of daylight opening.



- K. **Icon Sliding Patio Door:** The sill track is a one-part system. Install fasteners in sill. Apply bead of sealant between high-rise sill and frame before attaching high-rise adapter. Slide the adapter onto the rise of the sill. Using a rubber mallet tap high-rise adapter in place. Installer must seal all anchor penetrations in sill also applying a cap to sill fastener with sealant.



**\*\* Note:** After anchor inspection, Sill anchor holes must be completely sealed to prevent water from entering the sill anchor chambers. Silver Hole Plugs (5588SL) to be installed in Sill anchor holes after anchors are installed and building department has inspected fasteners

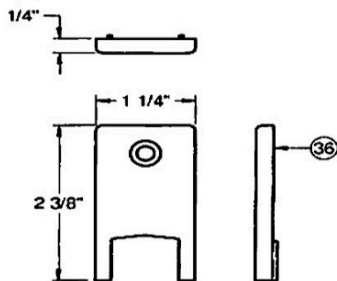


## 2 Panel Installation:

**Note:** It is recommended to adjust rollers out to their extended positions prior to installing panels. Always use a #3 hand screwdriver when adjusting rollers.

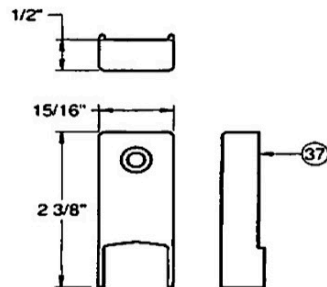
- A. **When installing door panels**, insert head of panel fully into frame first, and then set panel down onto sill frame track.
- B. **Adjust all panels for smooth operation and consistent reveal.** Panel adjustment holes will be facing to the outside. (Powered drivers can strip the adjustment screws and therefore are not recommended, utilize a #3 hand screwdriver). To raise panels, pick up the panel at the edge to relieve the weight pressure on the rollers.
- C. **Panel guides must be installed after panel is installed in opening** referred to pictures below.

Kit Pack K-5482  
(w/#10 x 1" PH FL)



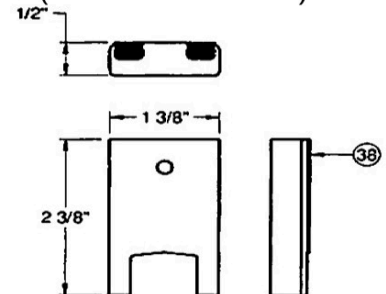
Panel Guide, Interlock - P-5482

Kit Pack K-5483  
(w/#10 x 1" PH FL)



Panel Guide, Lock Stile - P-5483

Kit Pack K-5484  
(w/#10 x 1 1/4" PH PN)

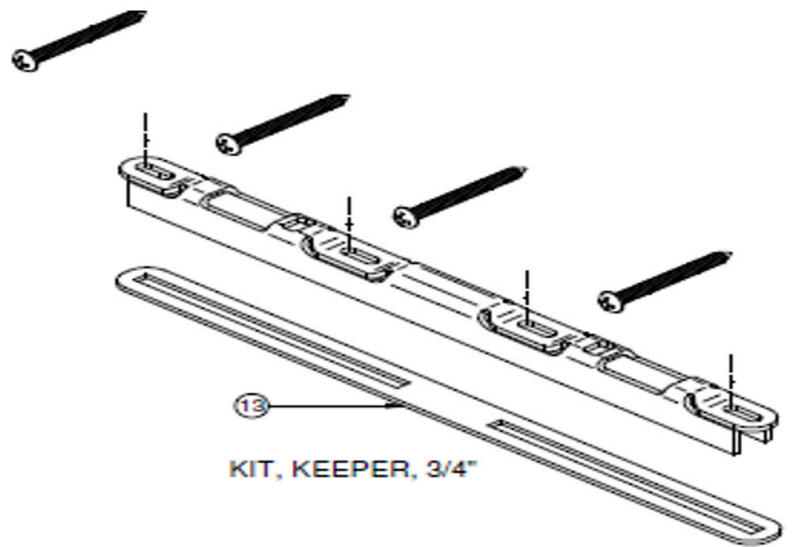


Bumper/Panel Guide - P-5484

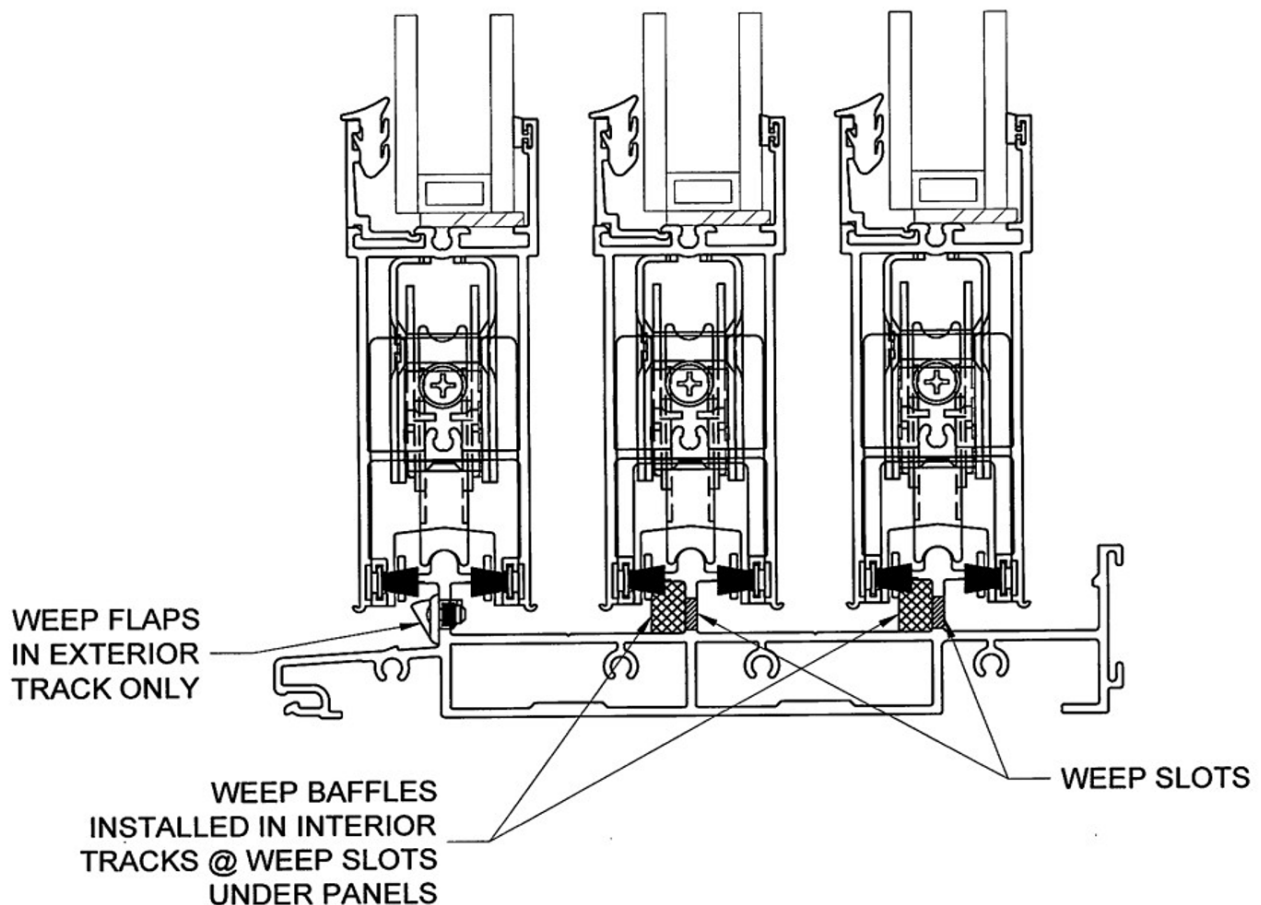


### 3 Final Adjustments:

- A. Once the panel(s) are installed and adjusted then install metal Lock Keeper (Kit Pack K-3792 - w/#10 x 1-1/4" PH PN screws).



- B. Weep baffles are used to fill weep slots directly beneath panels with the panels in the closed position. (Refer to details below)

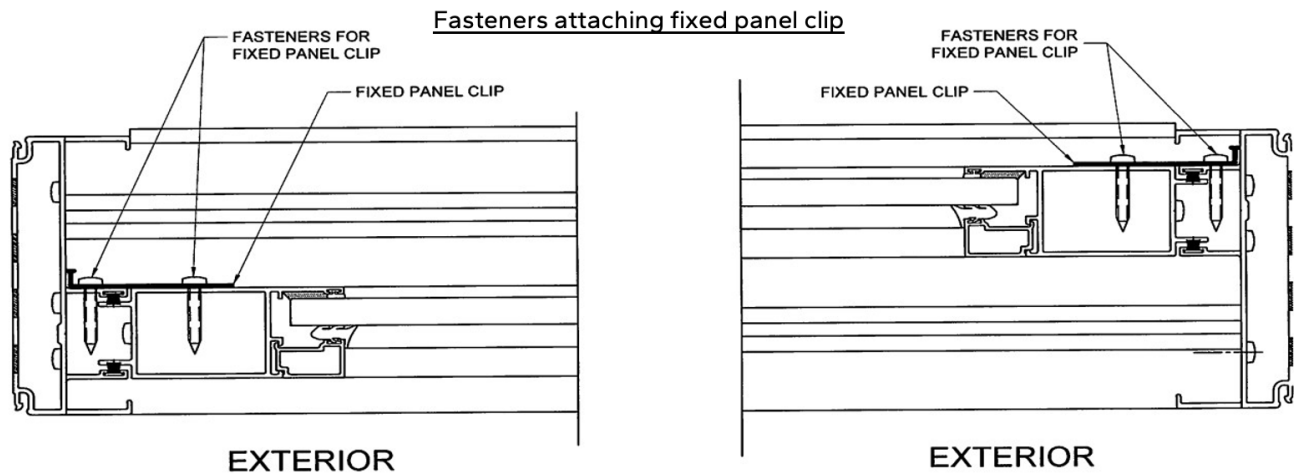




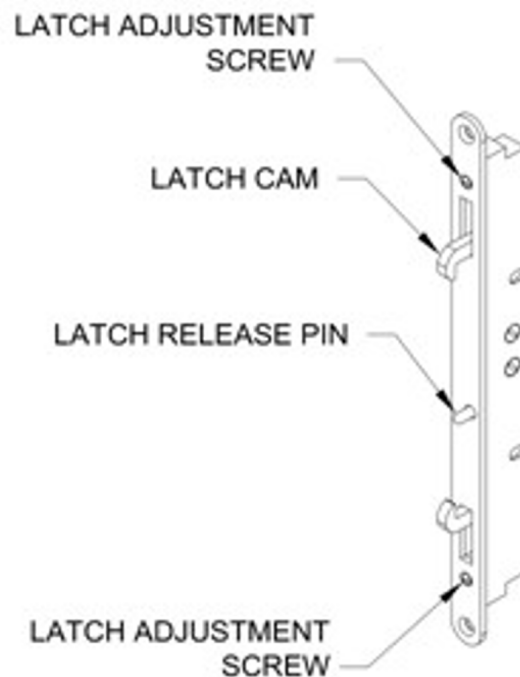
### 3 Final Adjustments (continued):

- C. **Fixed Panel Clips** (Kit Pack K-5569 – w/#10 x 1-1/4" PH PN screws and 1/2" dia. hole plugs) must be 28 inches from top and bottom of panel, maximum. (\*Important note) When installing handle hardware and keeper, lock panels in place first. Then install fasteners into sliding glass door panel through fixed panel clips.

**Note:** If door configuration contains fixed panels DO NOT install Fixed Panel Clips until lead panel and interlock panels have been adjusted and locked.

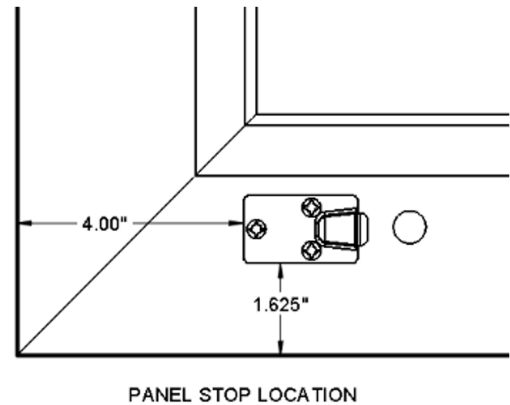


- D. Installer may need to adjust mortise lock hook by screwing the adjustment screw in or out.



### 3 Final Adjustments (continued):

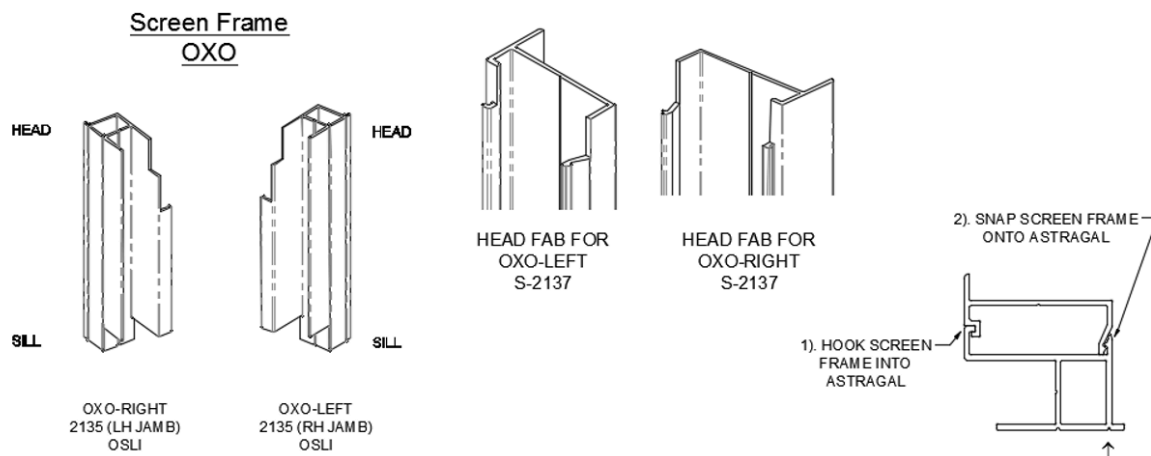
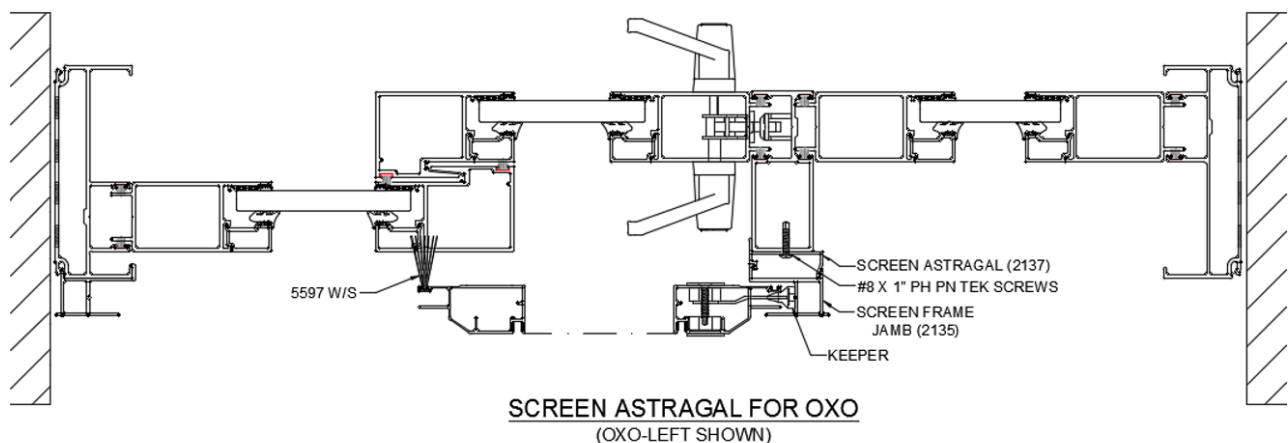
- E. **Panel stops (Kit Pack K-4332)** will prevent the door panels from contacting the handle hardware. They may be installed at the bottom on the door panel below the glass bead approximately 4" from the panel edge and 1-5/8" up from the bottom of the panel.



### 4 Screen Installation:

#### A. Screen Astragal for OXO Configurations:

- Locate screen astragal adaptor (2137) to door panel astragal as shown below. Align the head of the screen astragal with the head of the door astragal. Pre-drill evenly spaced anchor holes and attach to door astragal (as shown below) using (5) #8 X 3/4" pan head screws included in Kit Pack 3539-K5.
- Next, locate the correct screen frame jamb (2135) and hook the screen frame jamb onto screen astragal groove first, then use a non-marring dead-blow or rubber mallet to snap the screen frame jamb and screen astragal parts together (see below).

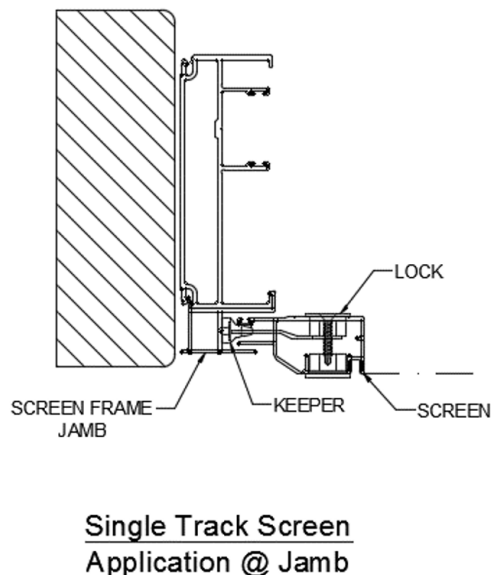
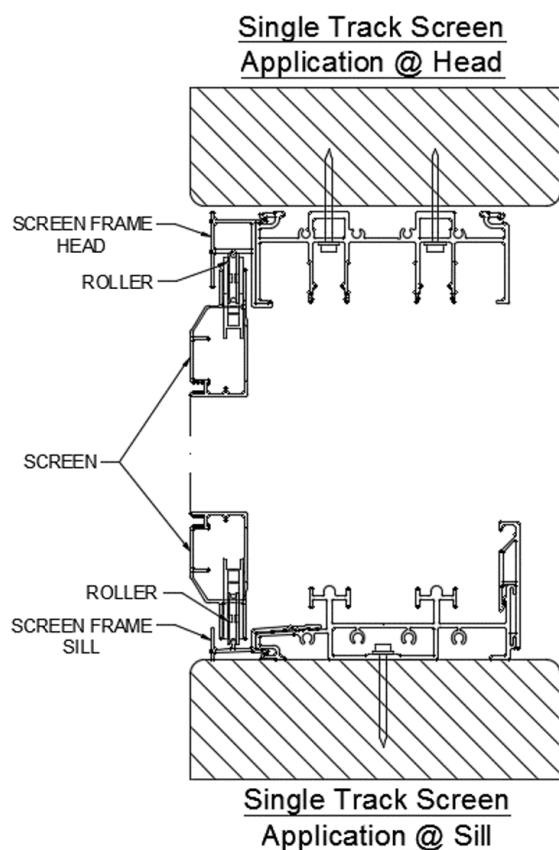


## 4 Screen Installation (continued):

- B. **Single Track Screen:** (See Note in Step 1D for the installation of the single track screen frame.) Install screens per the configuration ordered by inserting the screen head into the screen frame first then use a putty knife under the screen sill to compress the rollers and lift it over the screen frame. Once installed, adjust bottom rollers using a flat head, hand screwdriver (counterclockwise on left roller and clockwise on right roller) to raise and level the screen. Next, adjust top rollers at the head of the screen to contact the screen frame head (clockwise on left roller and counterclockwise on right roller).

**NOTE:** Only use a hand screwdriver to adjust rollers. Excessive force can damage roller adjustment.

Once screens are installed, adjusted and in final position, install the provided hole plugs into the screen roller adjustment holes. After, locate and install lock keeper onto the screen frame jamb using the screws provided.

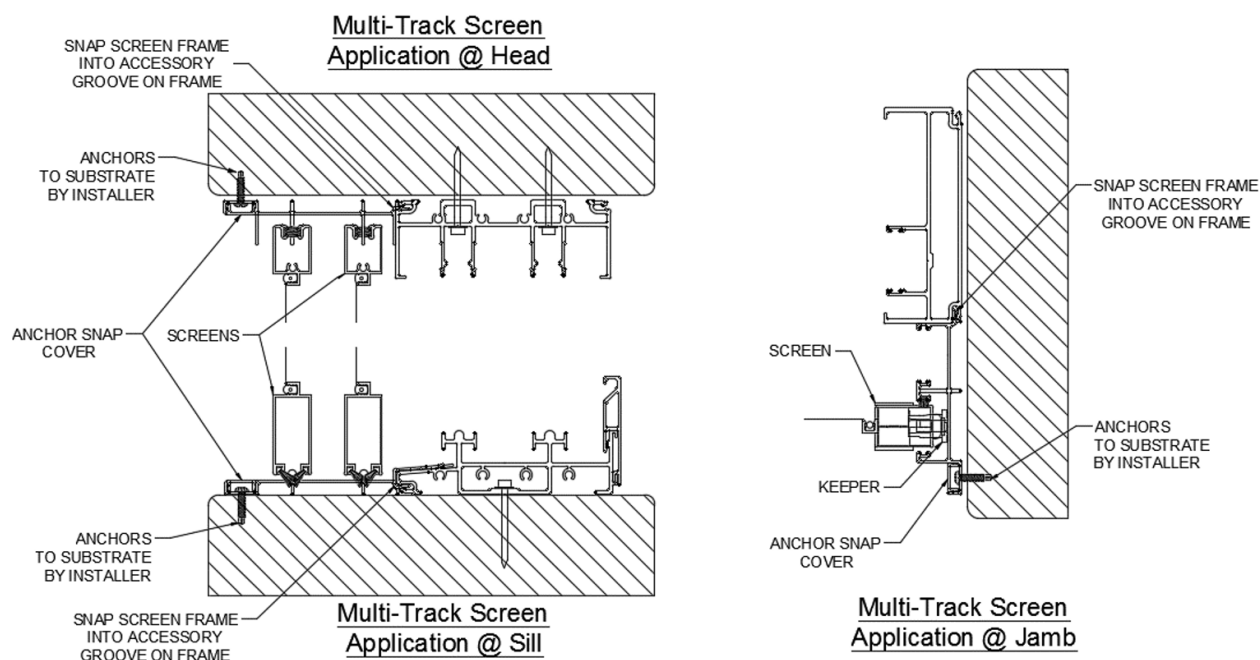


Screen roller adjustment pictured. Located on the face of the top and bottom of screen.



## 4 Screen Installation (continued):

- C. **Multi-Track Screen:** When installing screen doors in this series the panels will ride on a monorail track snapping into the accessory groove on the main frame (Refer to diagram below). Screen frame is to be anchored securely to the substrate and anchor cover snapped into place to conceal fasteners.



- D. **Apply exterior sealant** forming a weather barrier seal from frame to substrate. Use backer rod to fill large gaps where needed. It is good practice to clean frame with isopropyl alcohol to achieve proper adhesion to frame to substrate.

### Special Note:

**\*Remove any remaining debris from sill after installation and clean door frame.\***

When inspection is required, we recommend leave jamb and header trim and trim covers off and expose all fasteners. You must leave all stickers and NFRC labels on glass until after inspections.  
(Never remove gold product information labels located on jamb or header.)



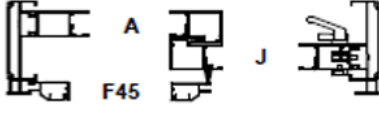
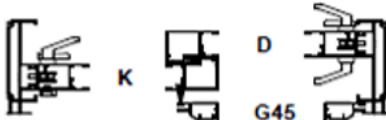
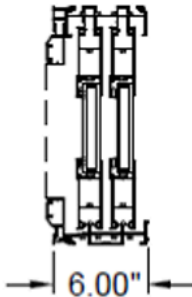
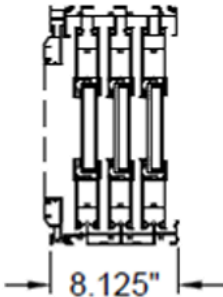
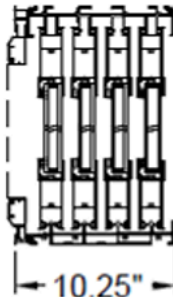
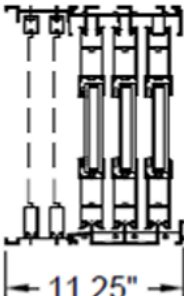
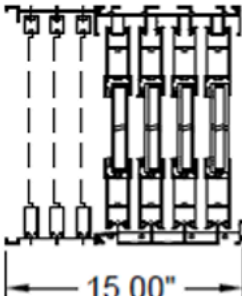
**Note:** After completing installation it is good practice to measure at head, sill, and midpoint horizontally to be certain that frame is not bowed. Measure from top to bottom across the entire frame from left to right to make sure there are no rises in the sill or dips in the head.

For additional information or in the event you have issues during the installation of this door unit, please contact Custom Window Systems, Inc., Product Services Department.

1-800-327-3086

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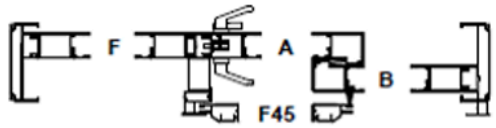

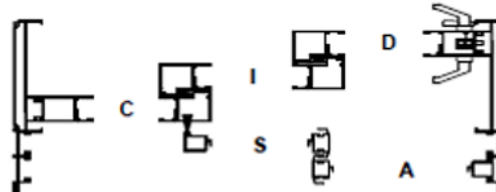

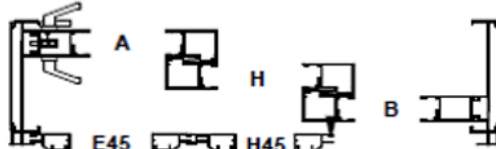


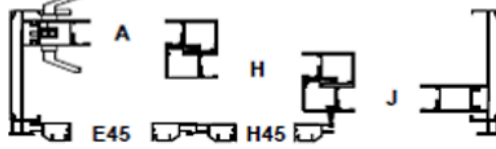


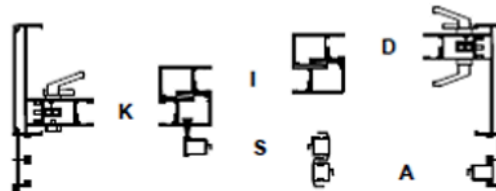
Icon Sliding Patio Door  
2-Panel and Vertical Sections

OX			
XO			
XX			
XX-REV			
VERTICAL SECTIONS			
SINGLE TRACK SCREEN	2-TRACK FRAME	3-TRACK FRAME	4-TRACK FRAME
			
	6.00"	8.125"	10.25"
MULTI TRACK SCREEN	3-TRACK FRAME	4-TRACK FRAME	
			
	11.25"	15.00"	



# Icon Sliding Patio Door

## 3-Panel Options

	SINGLE TRACK SCREEN	MULTI-TRACK SCREEN
OXO-LEFT		N/A
OXO-RIGHT		N/A
OXX		
OXX-2T		N/A
XXO		
XXO-2T		N/A
XXX		
XXX-REV		

# Icon Sliding Patio Door

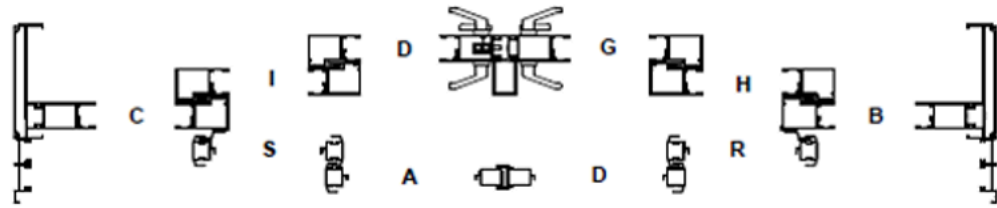
## 4-Panel Options

SINGLE TRACK SCREEN	MULTI-TRACK SCREEN
<p>OXXO</p>	<p>N/A</p>
<p>XXXX-2T</p>	<p>N/A</p>
<p>OXXX</p>	
<p>XXXO</p>	
<p>XXXX</p>	
<p>XXXX-REV</p>	

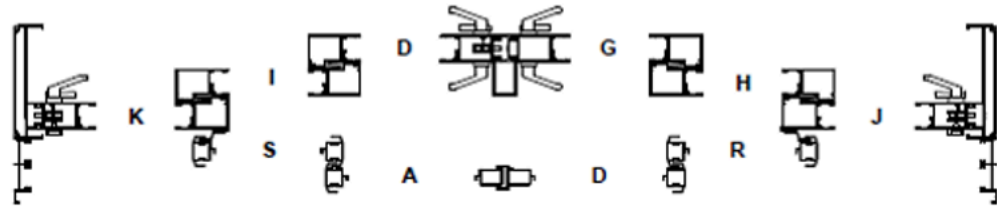
# Icon Sliding Patio Door

## 6- & 8-Panel Options

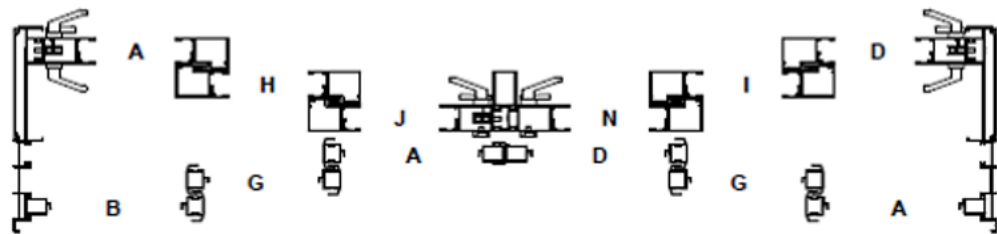
OXXXXO



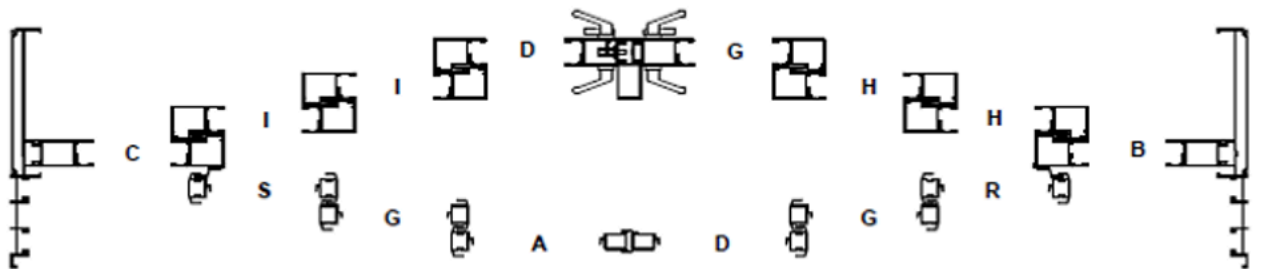
XXXXXX



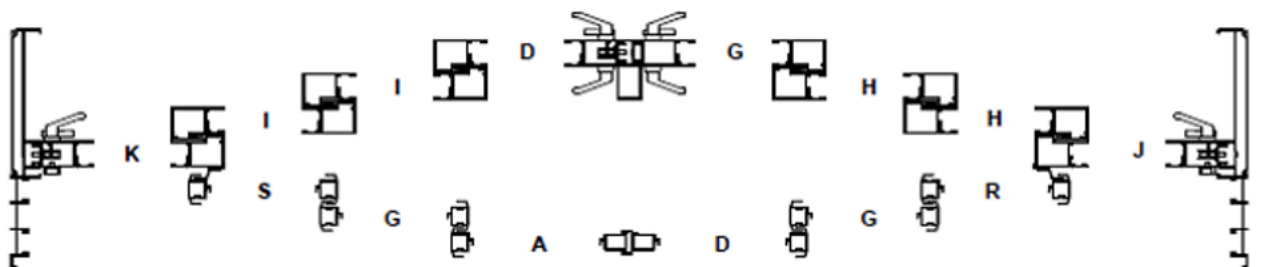
XXXXXX-REV



OXXXXXXO

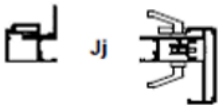
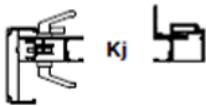
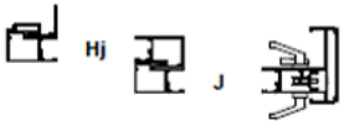

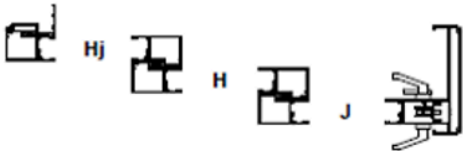
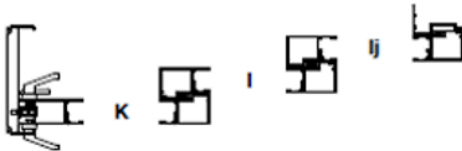
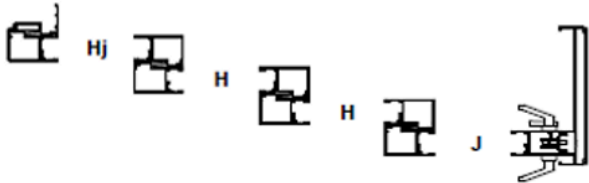
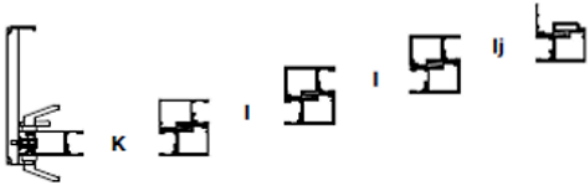


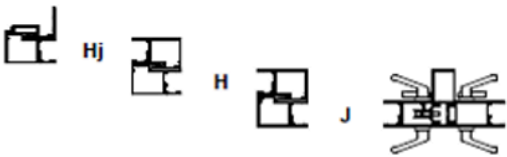



XXXXXXXX



# Icon Sliding Patio Door

## Pocket Options

LEFT HAND POCKETS		RIGHT HAND POCKETS	
PX			XP
PXX			XXP
PXXX			XXXP
PXXXX			XXXXP
PXXP			
PXXXXP			
PXXX-XXXXP			
PXXXX-XXXXP	