S0900 Sliding Glass Door

GRAHAM
ARCHITECTURAL PRODUCTS

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Assembly Instructions and Installation Guidelines for

S0900 Sliding Glass Door
OX, XO, OXO and OXXO

Manual Part #970901

Approved 07/21/2022

S0900 Sliding Glass Door

Installation Guideline Disclaimer

This document contains general installation guidelines for Graham Architectural products and does not address each particular condition or installation. Shop drawing installation details may vary from these Guidelines as these Guidelines do not address each particular condition so any variances should be addressed by the design professional. These Guidelines do not address the structural adequacy on any installation, and such should be addressed by a design professional. Anchorage to existing or proposed wall conditions are not addressed in this document. Sealant compatibilities and application details should be reviewed by the sealant manufacturers. This document does not address the interface between the door system and the buildings weather barrier system and should be reviewed by the waterproofing consultant. It is generally recommended that insulation be installed in all voids created in the installation of a thermally improved system, but the application of insulation in wet areas needs to be addressed by the design professional and the particular type of insulation may need to be specified.

S0900 Sliding Glass Door

These instructions include the 4 sill conditions, offered for water test pressures ranging from non-rated low sill through 12lb per square foot resistance to water infiltration. The doors are also available with or without the top hung sliding insect screen. Read these instructions before starting any installation.

Receiving, Handling, and Storage

The proper receiving, handling and storage of windows and doors is critical to the performance of the products throughout their service life. Abuse of the products during these processes will affect their operation and appearance. Even if the effects are not immediately noticed, they could surface later in the life of the product. The following are precautions that need to be followed.

Receiving: Prior to receiving the shipment off the doors, ensure that there is an adequate location to receive the doors and enough manpower and equipment to off load the products.

- Depending on the glass configuration and the size of the doors, the door panels may be heavy. A loading dock or glass manipulator may be needed to offload the door panels without damaging them. If there is a question as to the weight of the panels, contact Graham Architectural.
- Most trucking companies allow a 3-hour off-loading time and will charge a detention fee if the truck is not off-loaded within that time period. That should be considered when determining the location where the truck will be off-loaded and how much manpower will be needed to complete the process.
- Ensure that the storage location is close to the off-loading area. The product storage area must meet the requirements listed in the “Storage” section below.

Handling: HANDLE CAREFULLY – DO NOT DROP.

- It’s recommended to use a glass manipulator for large or heavy units. Ensure that there is enough manpower to lift and maneuver the doors. Use glass cups when possible. Only use material handling equipment that will not damage the finish of the products.
- Do not use any of the hardware or grids for lifting or manipulating the door or door panels. Glazed products must always be transported vertically.

Storage:

- The storage location for any finished products must be cordoned off to prevent damage from other trades, such as moving equipment.
- Stack vertically and on their bottom rails with adequate separation so door parts (including hardware) will not rub together. All products should be stored on top of wood blocking to protect the finish and weather-strip. Blocking will also be needed between the frame and any object that can damage the door frame.

S0900 Sliding Glass Door

Storage: (Continued)

- Ensure that the products cannot be blown over by the wind and are limited to stacking of five (5) units before alternate support is given. If the door panels are going to be stored for a short period of time (less than 1 month), they can be leaned at a 15° – 20° angle from vertical, with blocking to prevent them from rubbing/deforming. If they are going to be stored for an extended period of time, they will need stacked vertically (<3° from vertical) with strapping to prevent them from being blown over by the wind.
- Protect door panels from moisture and dirt prior to installation. It is important that all panels that are not installed, are protected from direct contact with rain, snow, or ice to protect the finish and glazing of the product. If water gets into and is retained in the glazing pocket it will cause the edge seal of the insulating glass to fail.
- Storing the doors in the building is preferred, as long as they are not in a high traffic area. If stored in a trailer, or under clear plastic, there must be adequate ventilation to prevent the temperature of the products from exceeding 110° F (43.3° C). Temperatures exceeding this threshold can damage the sealants in the insulating glass. Heat build can also cause stress fractures in the glass. If storing outside, the products must be covered in a manner that will prevent water from getting into the products, while allowing ventilation to prevent excessive temperature or moisture.
- Construction debris and dirt within the frame will affect the operation of the door. Protect all products from paint, weld spatter, construction debris, cement, plaster, terrazzo, and other construction materials, which include, but are not limited to, alkali based materials or caustic cleaners. This must be removed immediately to prevent damage to the finish of the aluminum or to the clarity of the glass.
- If the extrusions have been wrapped in a transparent plastic protective wrap, this wrap cannot be on the product for more than 90 days from the date of manufacturing, otherwise, it will be very difficult to remove wrap from the door finish.
- Prior to applying sealants, the surfaces must be cleaned and prepared as directed by the sealant manufacturer.

CAUTION – Doors are not to be used as ladders, scaffolds, or supports. Installed door openings are not to be used as construction entrances, unless adequate protection to the door sill and jambs is provided. Damage to any products from any construction activity will void the product warranty for the products in question.

***Note:** Copies of these instructions can be downloaded from www.grahamwindows.com/architectural-resources/technical-information/*

S0900 Sliding Glass Door

APPROVED FRAME SEALANTS

The frame members must be sealed with a neutral cure silicone, or suitable small joint sealant, that is compatible with the thermal breaks, the weatherstrip, and the paint that is used on the aluminum. The following are some suggested sealants that can be used:

- Pecora 896-TBS
- Dow Corning 791
- GE SCS 2000 or SCS 2800
- Dow 795, 995, and Tremco Spectrum 2 will need a primer

CONTENTS

Carefully check that all components, extrusions, and factory assembled parts have been received, contact Graham Architectural Products if any parts in the frame kit are missing. Your new doors have been partially assembled at the factory, the fabricated frame, and installation components are boxed.

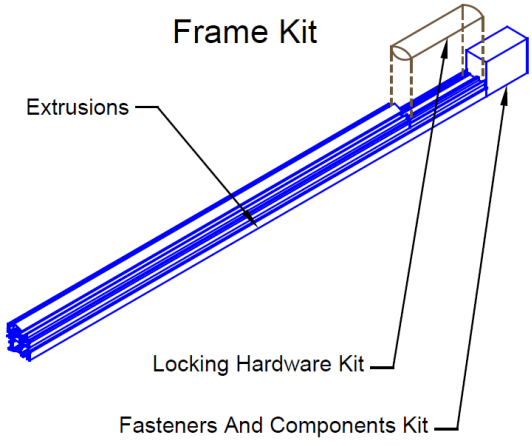
XO and OX Door Kit

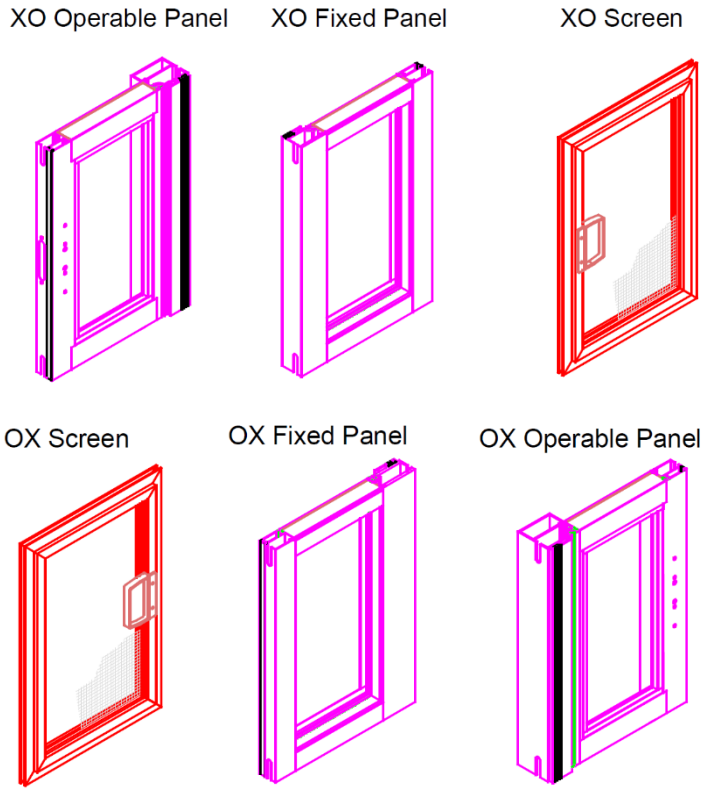
1 - Operable sliding glass door panel
1 - Fixed Glass Door Panel
1 - Locking Hardware kit (Boxed w/ Frame Kit)
1 - Frame Kit (Boxed)
1 - Fastener and component kit (Boxed) (Contained w/ Frame Kit)
1 - (Optional) Screen Door

Typical Panels:

Interlock rail

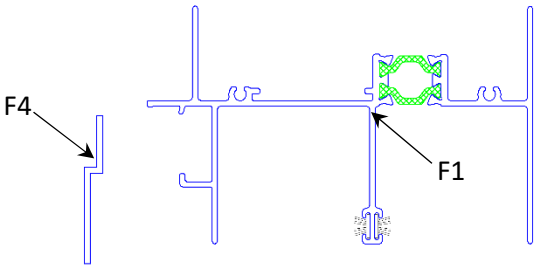
design may vary



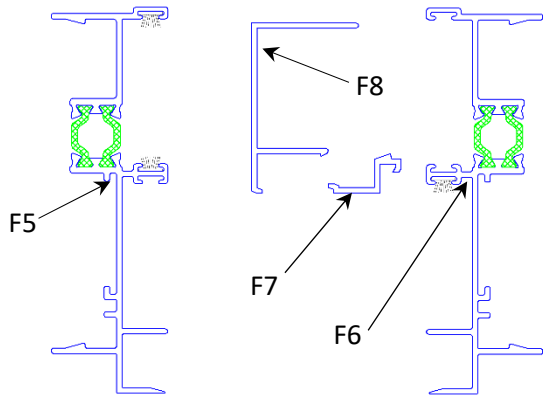


S0900 Sliding Glass Door

XO and OX Door Kit (continued)



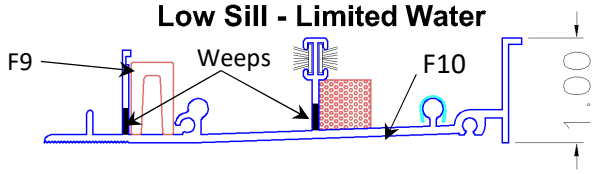
Jamb – XO Configuration Shown
OX Configuration Opposite



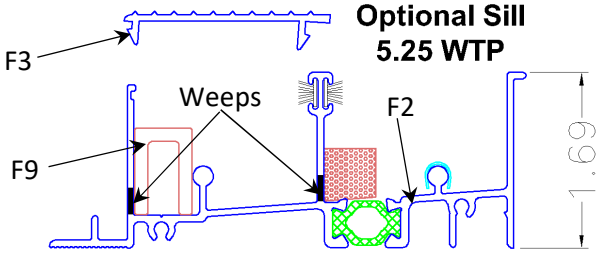
Frame Kit Parts

Item	Part Description	Part No.	Qty.
F1	Head	090317	1
F2	Sill 5.25 WTP	090325	1
F3	Threshold Cover	090023	1
F4	Screen – Z angle	090090	1
F5	Lock Jamb	090335	1
F6	Fixed Jamb	090335	1
F7	Fixed Panel Clip	090038	1
F8	Panel Clip Cover	090037	1
F9	Fixed Panel Support	920398 or 920397	2 or 3
Sill Options			
F10	Low Sill – Limited Water	090025	1
F11	Sub Sill – 10.0 WTP	090326	1
F12	Sub Sill – 12.0 WTP	090377	1
F13	Optional U-channel	999377	1

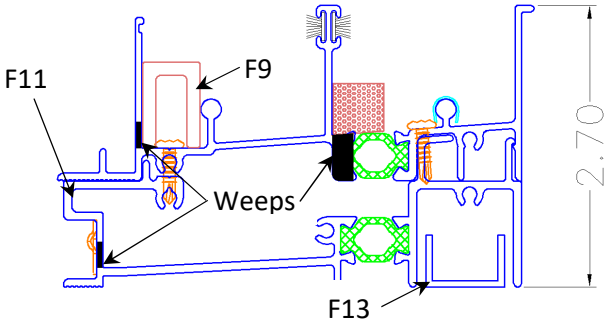
Low Sill - Limited Water



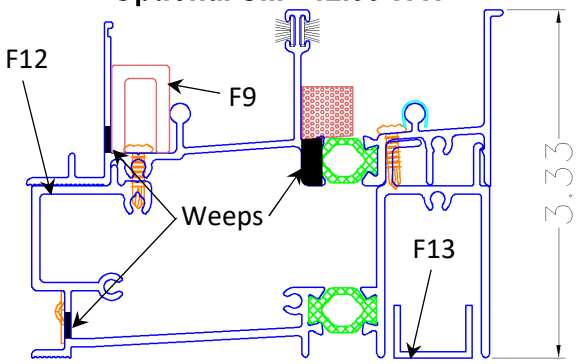
Optional Sill 5.25 WTP



Optional Sill - 10.00 WTP

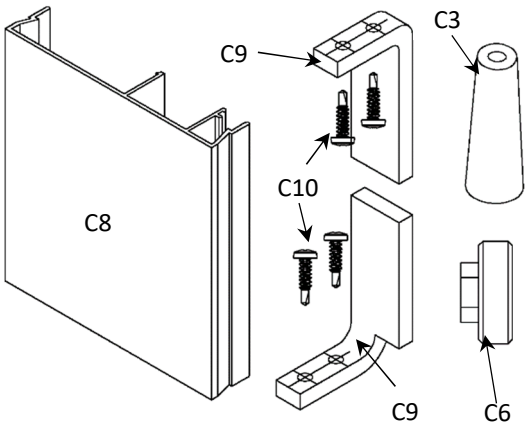


Optional Sill - 12.00 WTP



Fasteners and Component Kit

Item	Part Description	Part No.	Qty.
C1	Frame Assembly Screws #8x1-1/4" PH PN LP 188	939075	8
C2	Panel Clip Screws #8x1/2 PH PN TK 410	930661	5
C3	Rubber Bumper	920903	1
C4	Rubber Bumper Screw #8x1-1/4" PH PN LB 188	939075	1
C5	Screen "Z" Screws #8x3/8" PH PN AB 188	930249	2
C6	Screen Wheels	920901	2
C7	Screen Wheel Screws #8-32x3/8" PH PN	939372	2
C8	Jamb Shims	920145	14
C9	Interlock Retaining Angle	920899	2
C10	Retaining Angle Screw #10x3/4" SQ PN TK 410	936206	4

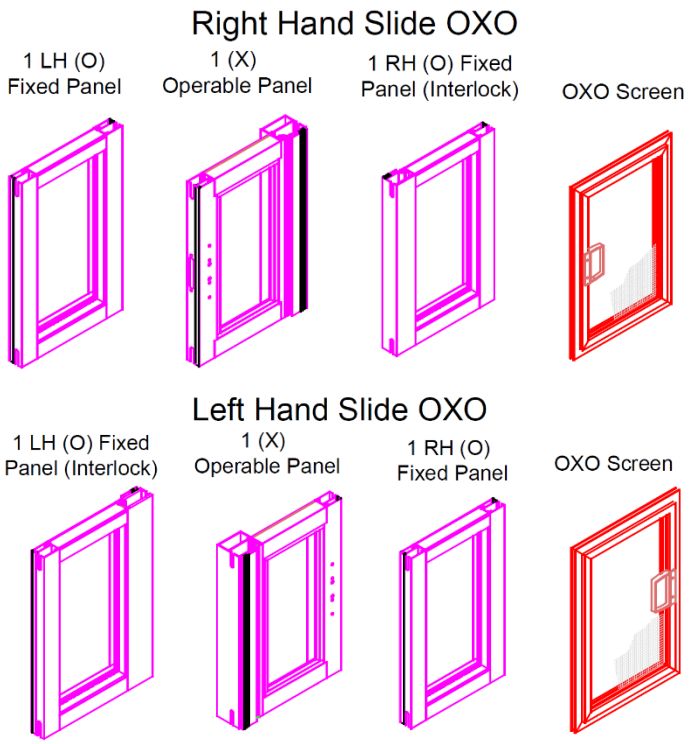


S0900 Sliding Glass Door

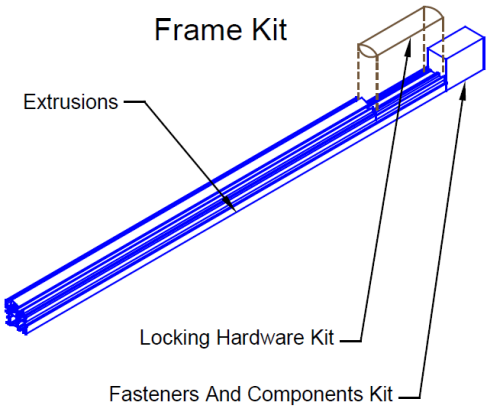
OXO Door Kit

1 - Operable sliding glass door panel
2 - Fixed Glass Door Panel
1 - Frame Kit (Boxed)
1 - Locking Hardware kit (Boxed w/ Frame Kit)
1 - Fastener and component kit (Boxed) (Contained w/ Frame Kit)
1 - (Optional) Screen Door

Typical Panels:
Interlock rail
design may vary



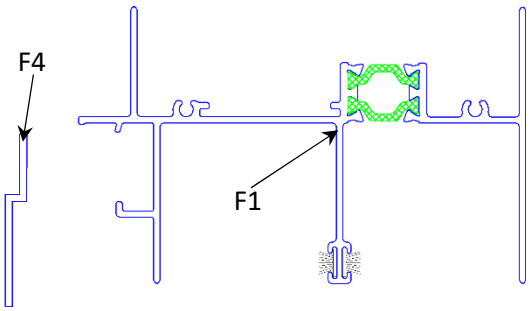
All diagrams above are exterior view

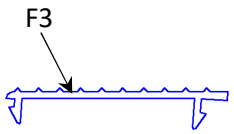


Frame Kit Parts

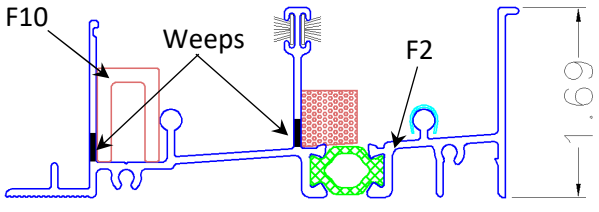
Item	Part Description	Part No.	Qty.
F1	Head	090317	1
F2	Sill 5.25 WTP	090325	1
F3	Threshold Cover	090023	1
F4	Screen – Z angle	090090	1
F5	Fixed Jamb (1 LH & 1 RH)*	090335	2
F6	Fixed Panel Clip*	090038	2
F7	Panel Clip Cover*	090037	2
F8	Astragal*	090368	1
F9	Snap Cap*	990248	1
F10	Fixed Panel Support	920398 or 920397	4 or 6
Sill Options			
F11	Low Sill – Limited Water	090025	1
F12	Sub Sill – 10.0 WTP*	090326	1
F13	Sub Sill – 12.0 WTP*	090377	1
F14	Optional U-channel*	999377	1

** Items shown on next page*

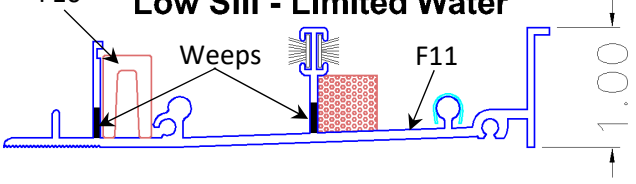




Optional Sill 5.25 WTP

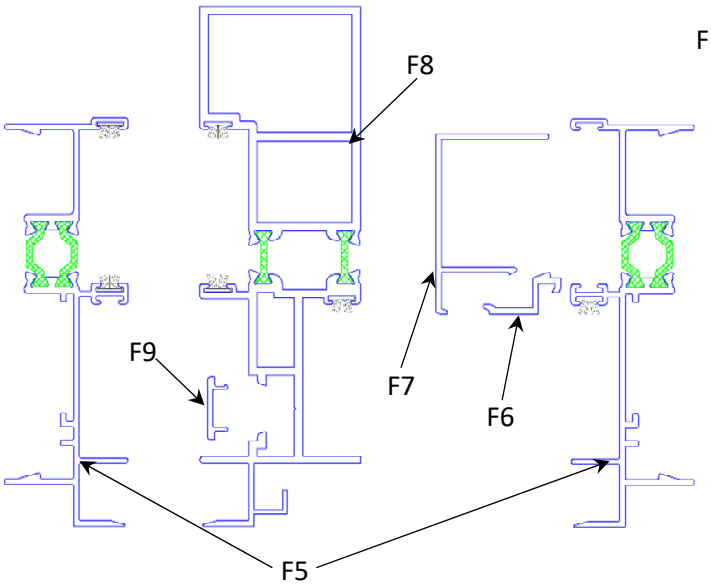


Low Sill - Limited Water

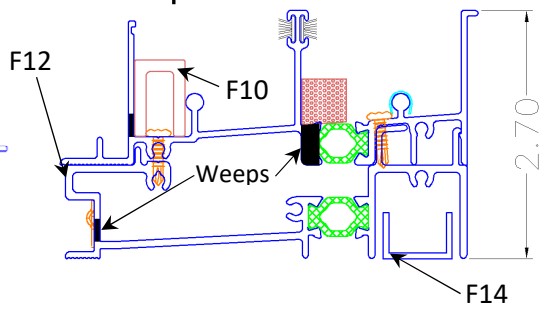


S0900 Sliding Glass Door

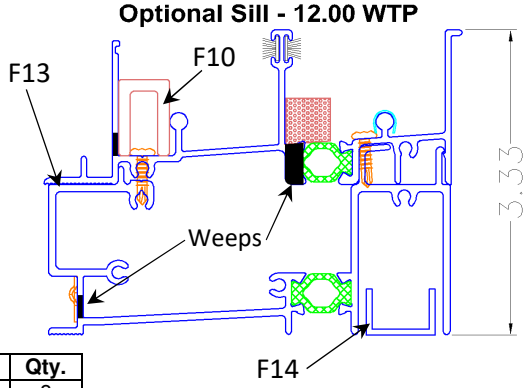
Jamb - OXO Configuration Shown



Optional Sill - 10.00 WTP

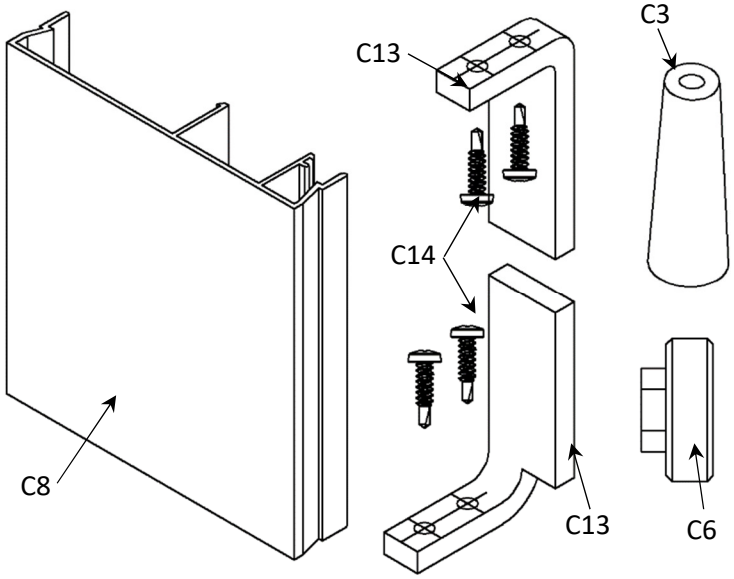


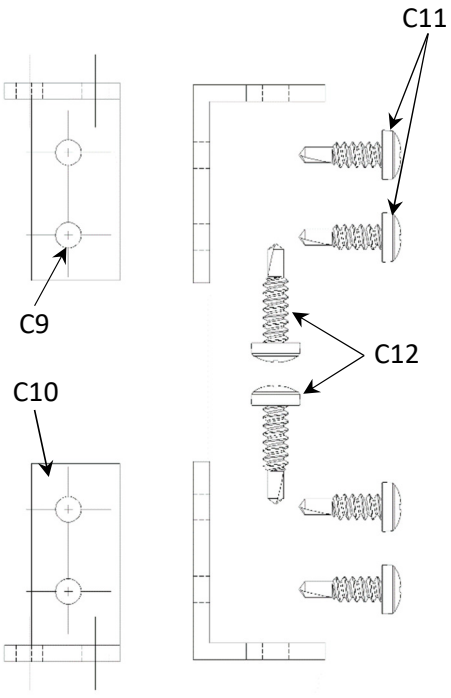
Optional Sill - 12.00 WTP



Fasteners and Component Kit

Item	Part Description	Part No.	Qty.
C1	Frame Assembly Screws #8x1-1/4" PH PN LP 188	939075	8
C2	Panel Clip Screws #8x1/2 PH PN TK 410	930661	5
C3	Rubber Bumper	920903	1
C4	Rubber Bumper Screw #8x1-1/4" PH PN LB 188	939075	1
C5	Screen "Z" Screws #8x3/8" PH PN AB 188	930249	2
C6	Screen Wheels	920901	2
C7	Screen Wheel Screws #8-32x3/8" PH PN MS 188	939372	2
C8	Jamb Shims	920145	14
C9	Astragal Attachment Clip RH	920891	1
C10	Astragal Attachment Clip LH	920892	1
C11	Astragal Attachment Screw #10x5/8" PH PN TK	939498	6
C12	Astragal Attachment Screw #10x3/4" SQ PN TK	930009	2
C13	Interlock Retaining Angle	920899	2
C14	Retaining Angle Screw #10x3/4" SQ PN TK 410	936206	4

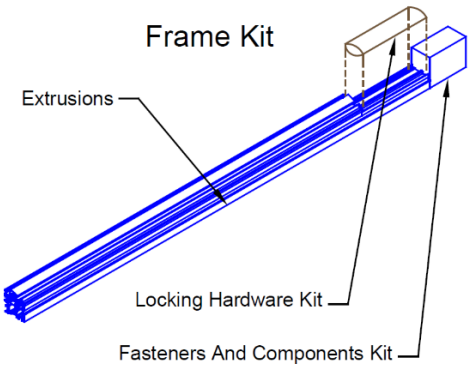


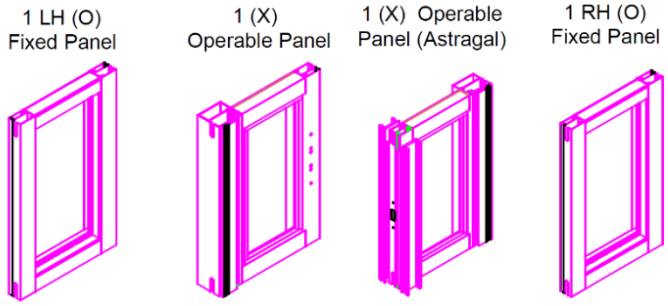


S0900 Sliding Glass Door

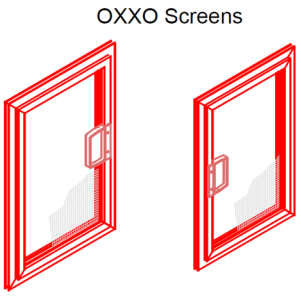
OXXO Door Kit

2 - Operable sliding glass door panel
2 - Fixed Glass Door Panel
1 - Frame Kit (Boxed)
1 - Locking Hardware kit (Boxed w/ Frame Kit)
1 - Fastener and component kit (Boxed) (Contained w/ Frame Kit)
1 - (Optional) Screen Door





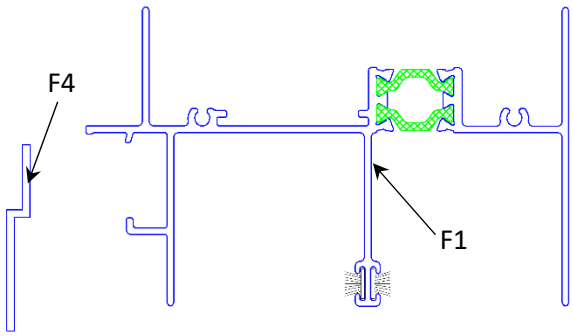
Typical Panels:
Interlock rail
Design may vary

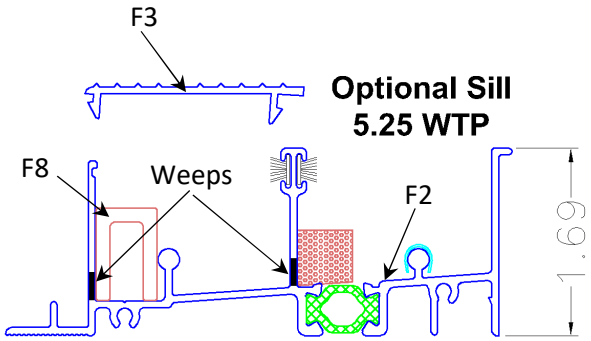


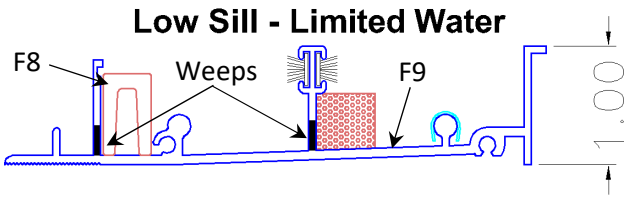
All diagrams above are exterior view

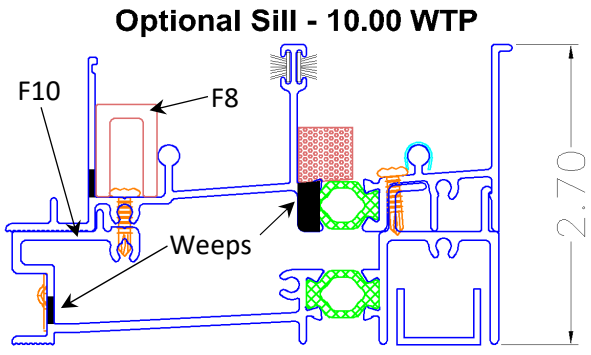
Item	Part Description	Part No.	Qty.
F1	Head	090317	1
F2	Sill 5.25 WTP	090325	1
F3	Threshold Cover	090023	1
F4	Screen – Z angle	090090	1
F5	Fixed Jamb (1 LH & 1 RH)*	090335	2
F6	Fixed Panel Clip*	090038	2
F7	Panel Clip Cover*	090037	2
F8	Fixed Panel Support	920398 or 920397	4 or 6
	Sill Options		
F9	Low Sill – Limited Water	090025	1
F10	Sub Sill – 10.0 WTP	090326	1
F11	Sub Sill – 12.0 WTP*	090377	1
F12	Optional U-channel*	999377	1

** Items shown on next page*



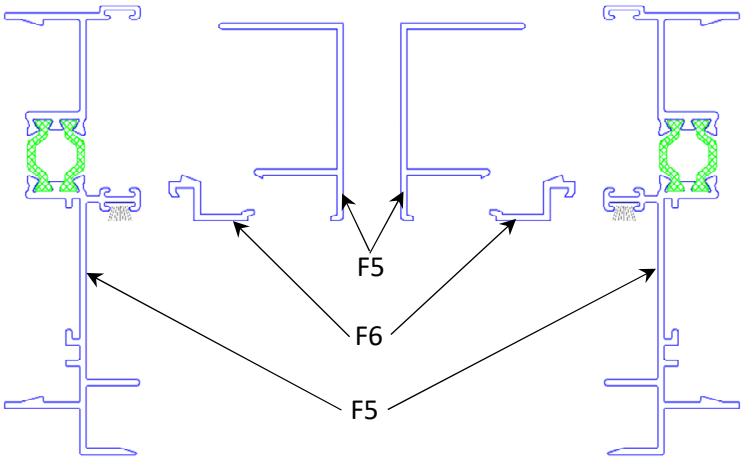




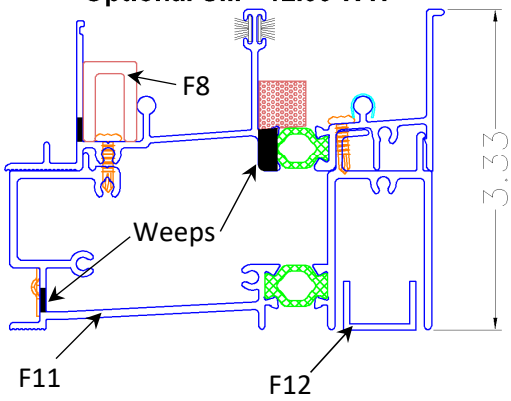


S0900 Sliding Glass Door

Jamb - OXXO Configuration Shown

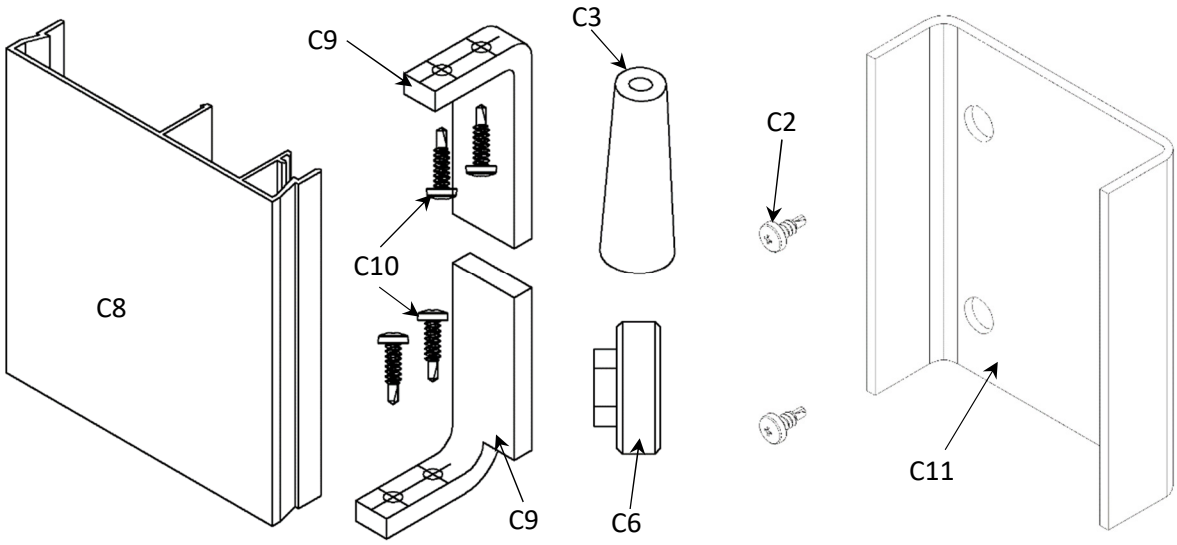


Optional Sill - 12.00 WTP



Fasteners and Component Kit

Item	Part Description	Part No.	Qty.
C1	Frame Assembly Screws #8x1-1/4" PH PN LP 188	939075	12
C2	Panel Clip Screws #8x1/2 PH PN TK 410	930661	12
C3	Rubber Bumper	920903	1
C4	Rubber Bumper Screw #8x1-1/4" PH PN LB 188	939075	1
C5	Screen "Z" Screws #8x3/8" PH PN AB 188	930249	4
C6	Screen Wheels	920901	4
C7	Screen Wheel Screws #8-32x3/8" PH PN MS 188	939372	4
C8	Jamb Shims	920145	14
C9	Interlock Retaining Angle	920899	4
C10	Retaining Angle Screw #10x3/4" SQ PN TK 410	936206	4
C11	Closure Channel	920947	2



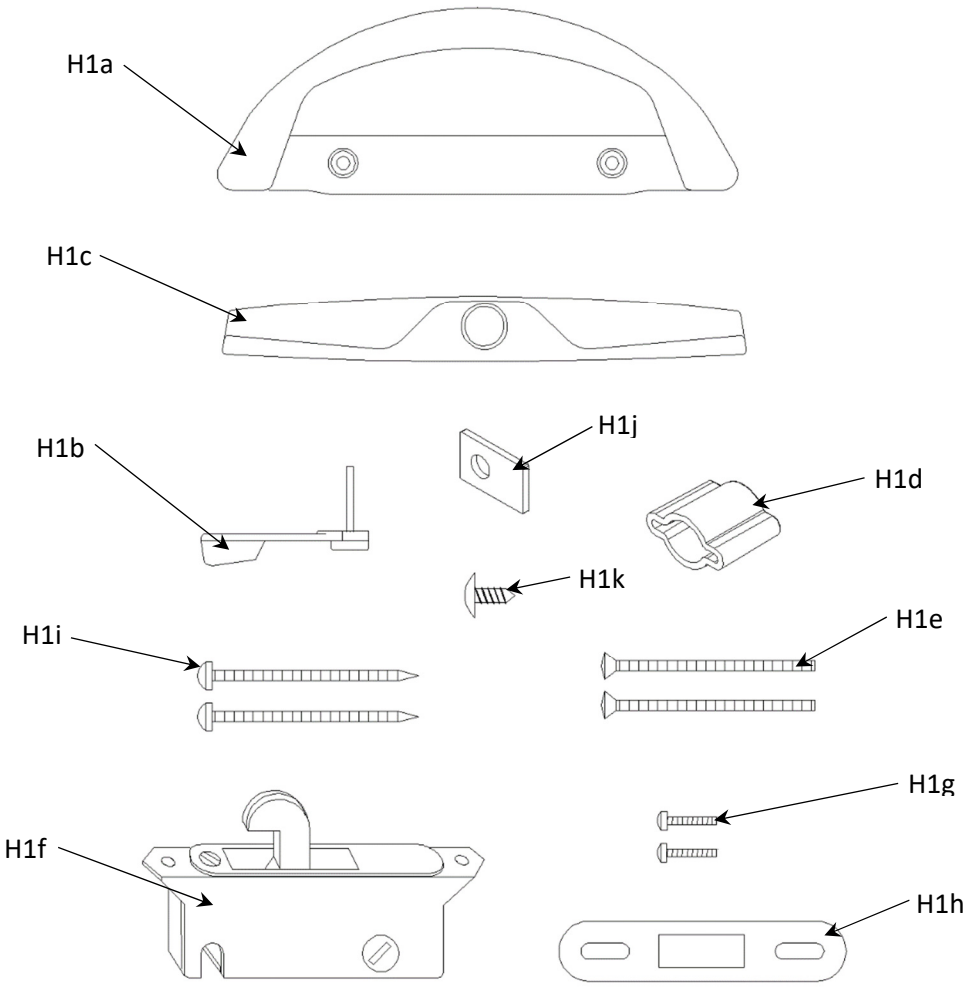
S0900 Sliding Glass Door

Handle Hardware Kit (3 compartment poly bag)

Lock Set Assembly (W/O Key Lock)

In 3 compartment poly bag

Item No.	Part Description	Part No.	Qty.
H1	Single Point Lock Set Assembly	920882	1
a	Interior Handle	920987	1
b	Interior Latch Lever	920992	1
c	Exterior Handle	920988	1
d	Exterior Handle Lock Spacer	920995	1
e	Handle Assembly Screws #8-32x1-3/4" PH FH MS 188	930254	2
f	Single Point Lock	920977	1
g	Single Point Lock Screws #6-32x1/2" PH FU MS 188	935299	2
h	Single Point Lock Strike	920978	1
i	Single Point Strike Screws #8x2-1/2" PH PN AB 188	930243	3
j	Spacer Retainer Clip	921002	1
k	Retainer Clip Screws #8-32x3/8" PH PN AB 188	930243	1



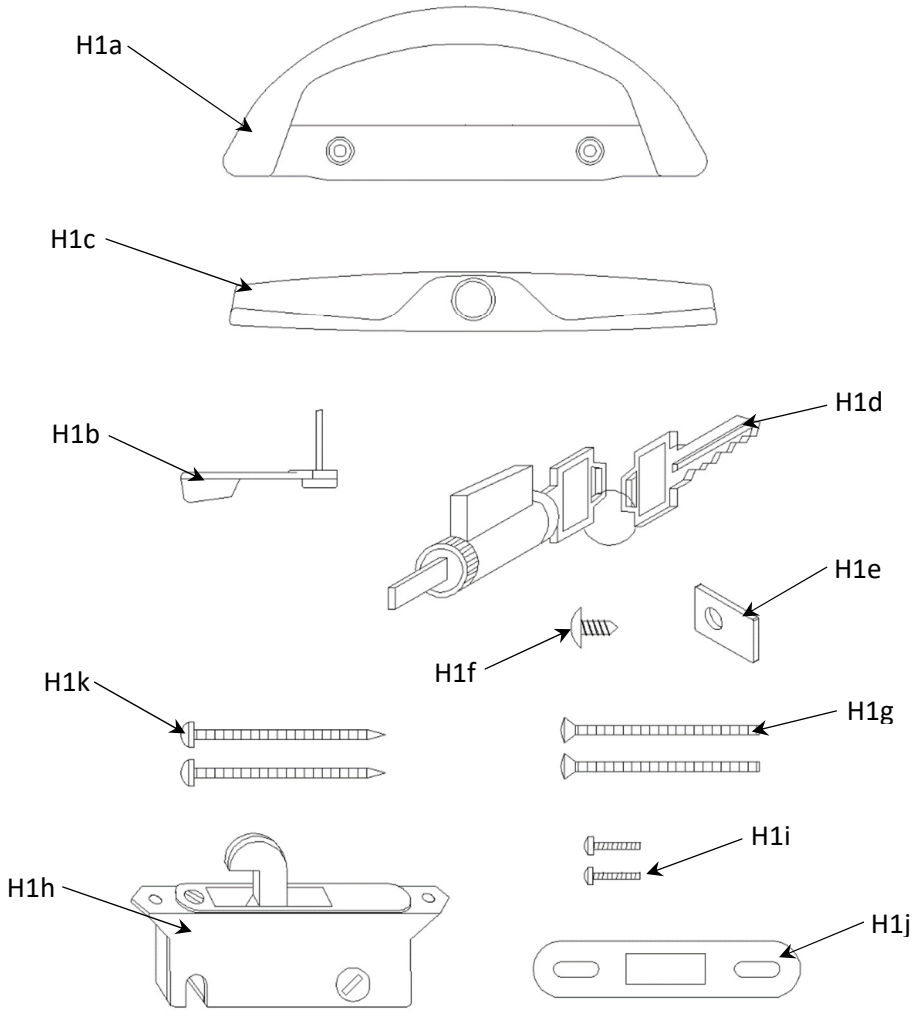
S0900 Sliding Glass Door

Locking Hardware Kit (3 compartment poly bag)

Lock Set Assembly (W/Key Lock)

In 3 compartment poly bag

Item No.	Part Description		Part No.	Qty.
H1	Single Point Lock Set Assembly		920883	1
a	Interior Handle		920987	1
b	Interior Latch Lever		920992	1
c	Exterior Handle		920988	1
d	Exterior Key Lock Cylinder & 2 Keys		920991	1
e	Lock Cylinder Retainer Clip		921002	1
f	Cylinder Retainer Clip Screw	#8-32x3/8” PH PN AB 188	939372	1
g	Handle Assembly Screws	#8-32x1-3/4” PH FH MS 188	930254	2
h	Single Point Lock		920977	1
i	Single Point Lock Screws	#6-32x1/2” PH FU MS 188	935299	2
j	Single Point Lock Strike		920978	1
k	Single Point Strike Screws	#8x2-1/2” PH PN AB 188	930243	2



S0900 Sliding Glass Door

Sill Sealing

A. Inspect sill members for proper assembly. If 10 or 12 PSF sill, check alignment and sealing of sill and subsill (See Figures S3 & S4).

B. Apply sealant to each end of the frame sill, as shown in Figure S5.

C. Fill the strut pocket with sealant as shown in Figure S5.

NOTE: Frame sill members are sub-assembled at the factory:

- Weatherstrip installed.
- Stainless steel track cover attached.
- Open cell baffles installed.
- Weep cover flaps installed (Where required).
- Subsill combinations are factory assembled and sealed (See Figures S3 & S4).

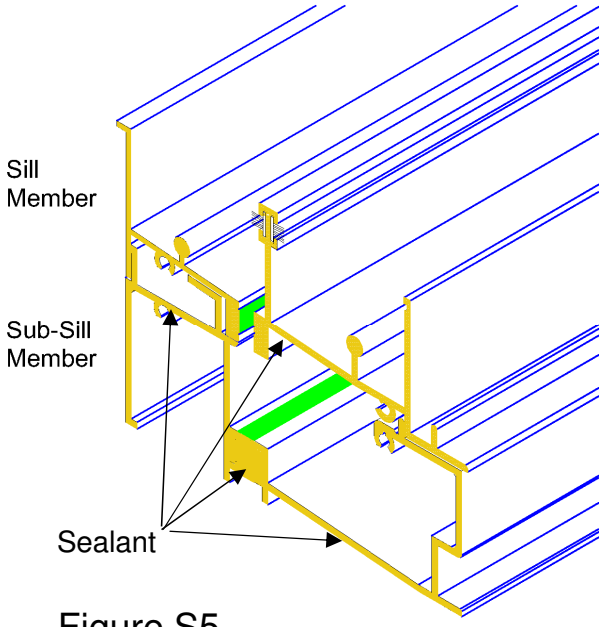


Figure S5

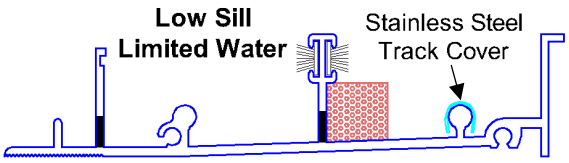
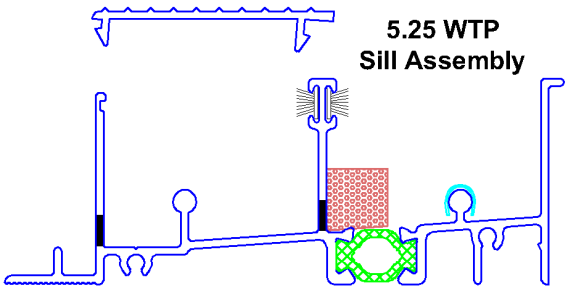


Figure S2



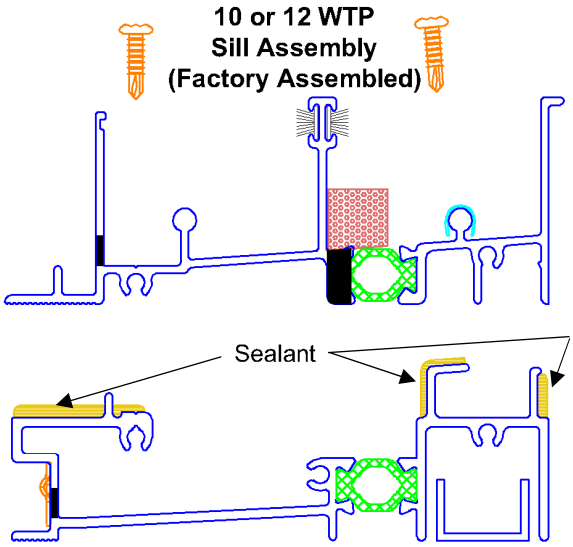


Figure S3

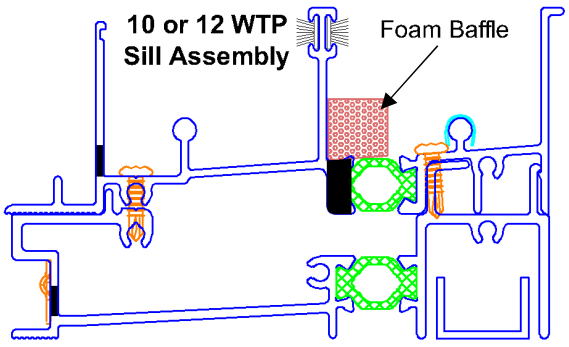


Figure S4

S0900 Sliding Glass Door

II. Head Sealing

A. Apply sealant to each end of the frame head, and coat thermal break with sealant as shown in Figure H2.

Note: *Head members have weather-strip installed at the factory (See Figure H1). Make sure weather-strip does not slide out of the frame members before or during assembly.*

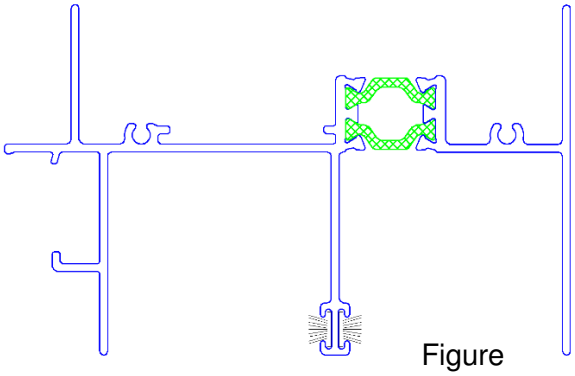


Figure H1

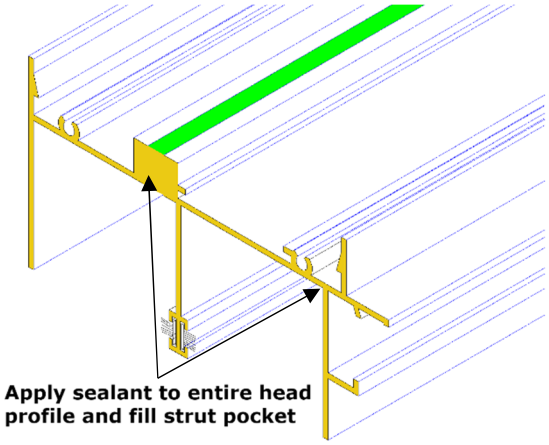


Figure H2

III. Frame Assembly

A. Apply Jamb Shims to both frame jambs by snapping into jamb. Locate 4” to 6” from each end, and evenly space remaining shims 16” to 18” (See Figure F1).

B. Orient fixed frame jamb and frame head with screen track on the same side.

C. Position and fasten frame head to frame jamb using #8 x -1-1/4” screws provided. There will be 2 screws per corner.

D. Position and fasten frame sill to frame jamb using #8 x 1-1/4” screws provided. The number of screws will vary depending on the sill type.

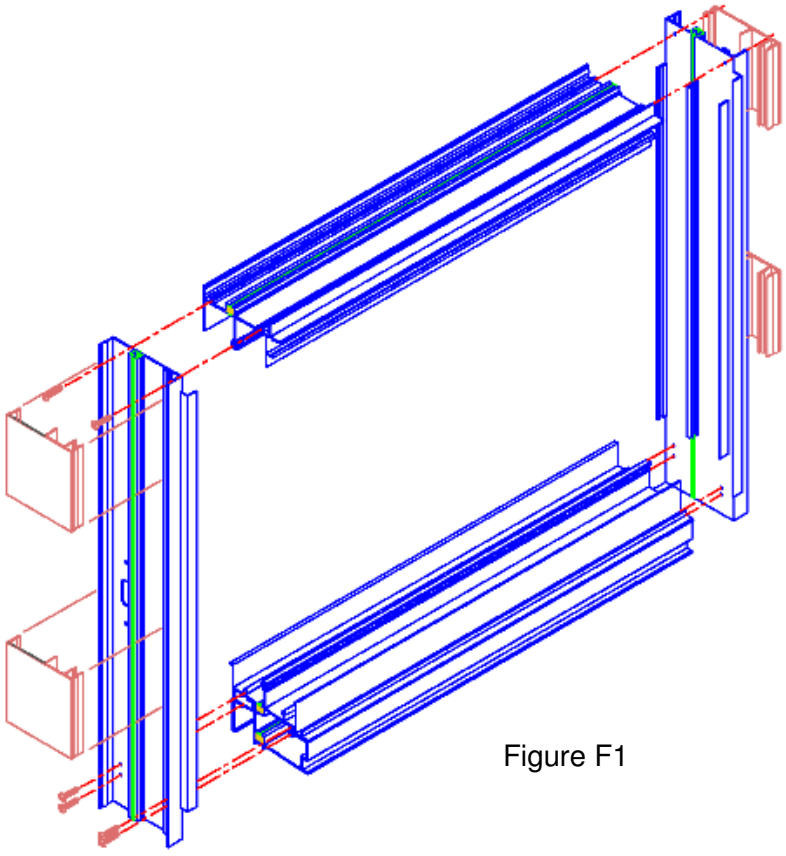


Figure F1

S0900 Sliding Glass Door

III. Frame Assembly (Continued)

E. Once the frame is assembled, clean any sealant ooze out from exposed surfaces, being careful not to remove or create voids in the sealant.

F. Apply and tool sealant to the inside of the jamb/sill corner as shown in Picture F2.

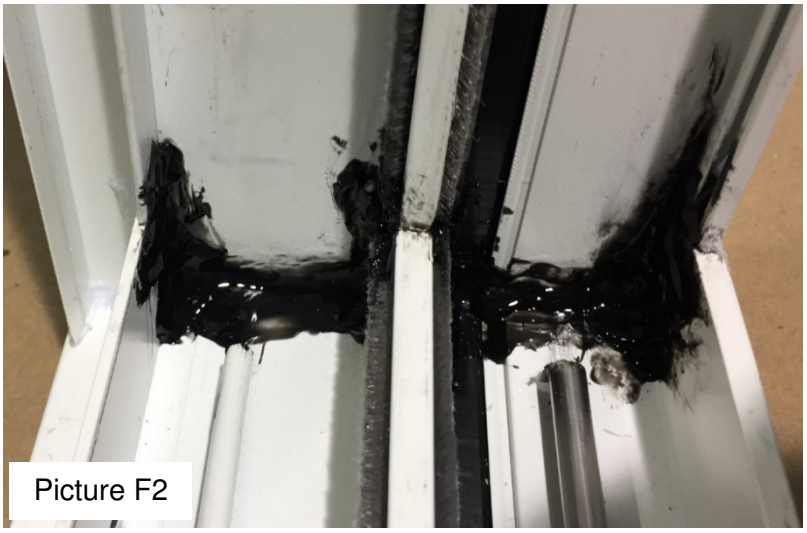
G. Back seal the outside of the jamb/sill corner and assembly screw heads as illustrated in Picture F3.

Note: *Black sealant used in the pictures is for illustration purposes. Use color matched or clear sealant.*

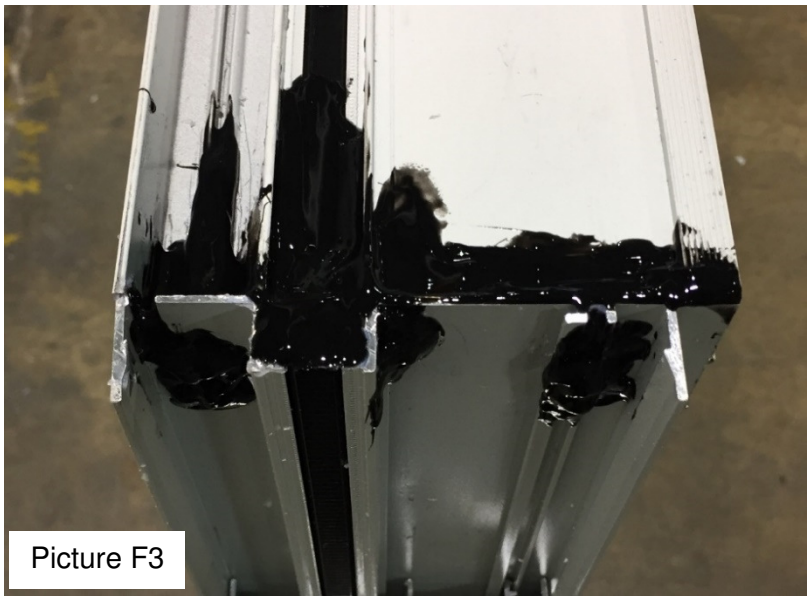
H. Seal over all screw heads and any exposed threads

I. Seal at least 1" of all thermal breaks.

J. Back seal the head/jamb corner as shown in Figure F4.



Picture F2



Picture F3

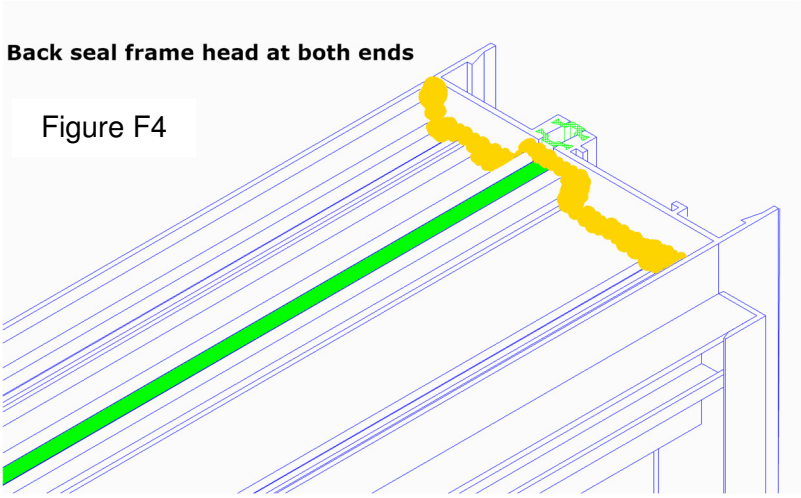


Figure F4

IV. Sill dam Test

A. After the frame assembly is complete, the jamb/sill corner seals shall be checked by performing a "Sill Dam Test".

Note: *The test can be performed prior to installation, however it is recommended that it is performed after the frame is installed in the opening. Improper handling of the frame can affect the frame seals. If it is performed after the installation, the sill corners will need to be visible, in order to look for leaks.*

B. Cover the weeps to prevent water from escaping the sill. Duct Seal, Tacky Tape or Duct Tape can be used to seal the weeps (Reference Picture T1 below).

C. Fill the sill to within a half an inch from the top of the sill with water (Reference Figure T2 below).

D. Look for leaks for 15 minutes. If there are any leaks, locate the source of the leak(s) and re-seal that area.

E. Once there are no leaks from the frame corners, uncover the weeps and allow the sill to drain.

Picture T1

Note: *This test meets AAMA 511 "Voluntary Guideline for Forensic Water Penetration Testing of Fenestration Products."*

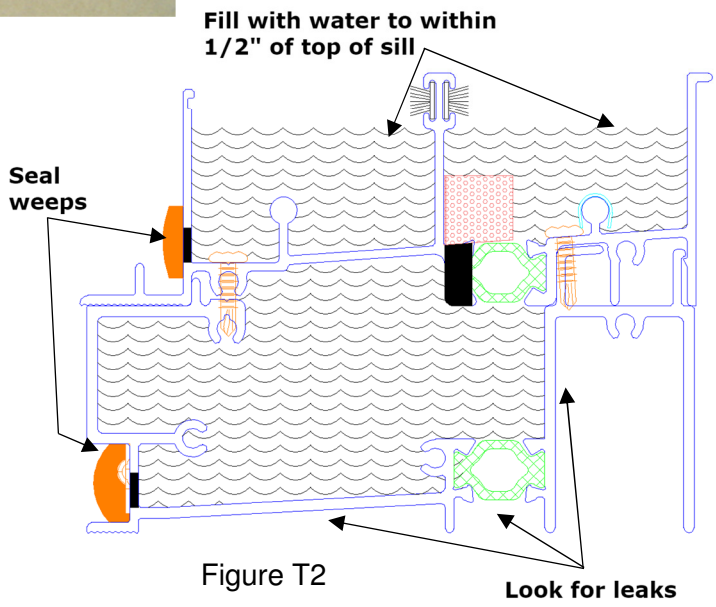


Figure T2

S0900 Sliding Glass Door

V. Install Frame

A. Install the door in accordance with the shop drawings. It is recommended to use at least two rows of sealant at the sill. The sill sealant will need to connect continuously with the jamb seal (See Figure L2)

Table #L1	Installation Tolerances (+/- Target)		
	Inches/ foot	Inches Maximum	Method of Measurement
Level (Horizontal Measurement)	1/32”	1/8”	Measure sill using level
Plumb (Vertical Measurement)	1/32”	1/8”	Measure jambs using level or plumb bob
True (In Plane Measurement	1/32”	1/8”	Attach strings across corners. Measure where they cross
Extrusion Straightness	1/64”	1/16”	Measure with straight edge.
Square (Diagonal Measurement)	N/A	1/16”* 1/8”**	Measure diagonal corners (Difference/2)
* Openings up to 20 sq. ft. **Openings 20 sq. ft. and over			

B. Drill holes in the frame where each fastener is to be located. It is not recommended to drill through the sill, or through the tank of the sill. If fasteners are required to penetrate the (single wall) sill; sealant will need applied in the pre–drilled hole, install the fastener, and then seal over the sealant head. Sills with a drainage tank cannot be penetrated or fastened through.

C. If strap anchors are to be applied to the frame, attach them before installing the door.

D. The sill will need continuous shimming. The sill must be level in accordance with Table L1.

E. Position the frame in the opening. If the doors are to be installed in a receptor or with panning, refer to the appropriate Graham Installation guideline for those products.

F. Apply shims and/or blocking at each fastener location (See Figure L2). The door must be level, plumb and square in accordance with Table L1.

G. Install fasteners at the head and jambs, as required to prevent movement of the frame during operation of the door. Shims and fasteners will be needed at (or within 2" of) the lock point. If fastening through the door frame, seal the heads of the fasteners after installation.

H. Seal the exterior in accordance with the shop drawings.

I. Insulate between the door frame and the rough opening.

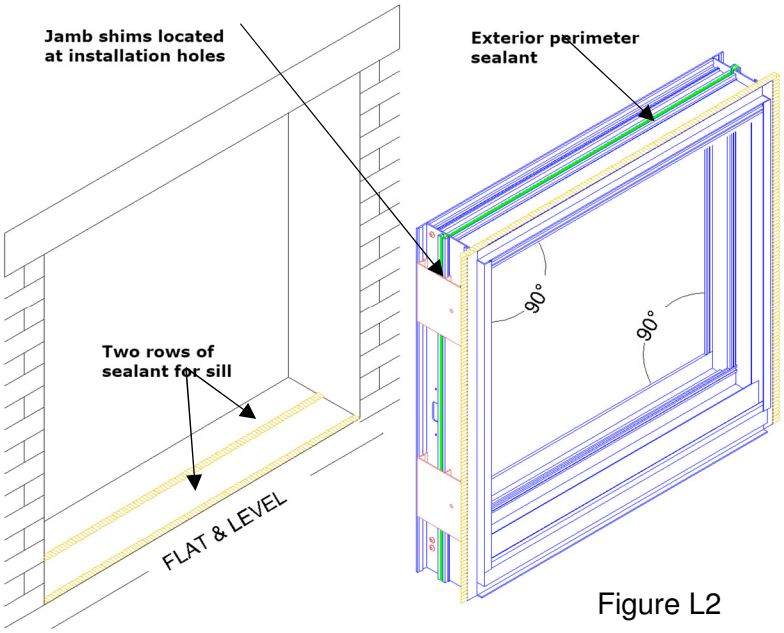


Figure L2

S0900 Sliding Glass Door

VI. Install Fixed Panel

A. Insert the Fixed Panel Supports in front of the exterior roller track where it will support the fixed panel (See Figure L5). The support cannot cover the weeps, so place one approximately 6" from the fixed jamb (See Figure L3) and one where the meeting stile will fall on the sill. If the panel is wider than 32", place a third support between the other supports.

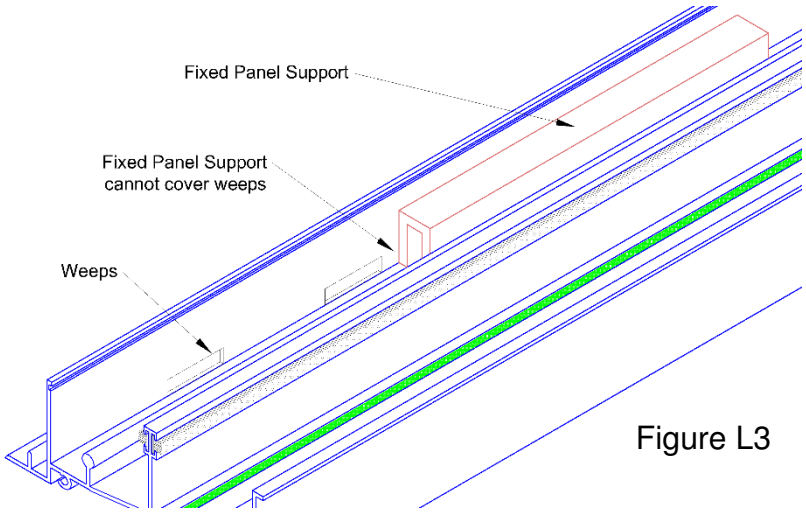


Figure L3

B. Insert the top of the fixed panel into the outside pocket of the frame head. Swing the bottom of the fixed panel in until it is over the outside pocket of the sill. Set the panel in the outside track of the sill, on the supports (or rollers for Low Sill) (See Figure L4).

C. Make sure that the Fixed Panel Support does not stick out past the end of the panel.

D. Check the plastic weatherstrip holder in the interlock. Make sure it is not in between the panel and the center leg of the head or sill. The bottom end of the holder should be sitting on top of the center leg of the sill. See Pictures L8 and L9 on page 20 for proper positioning.

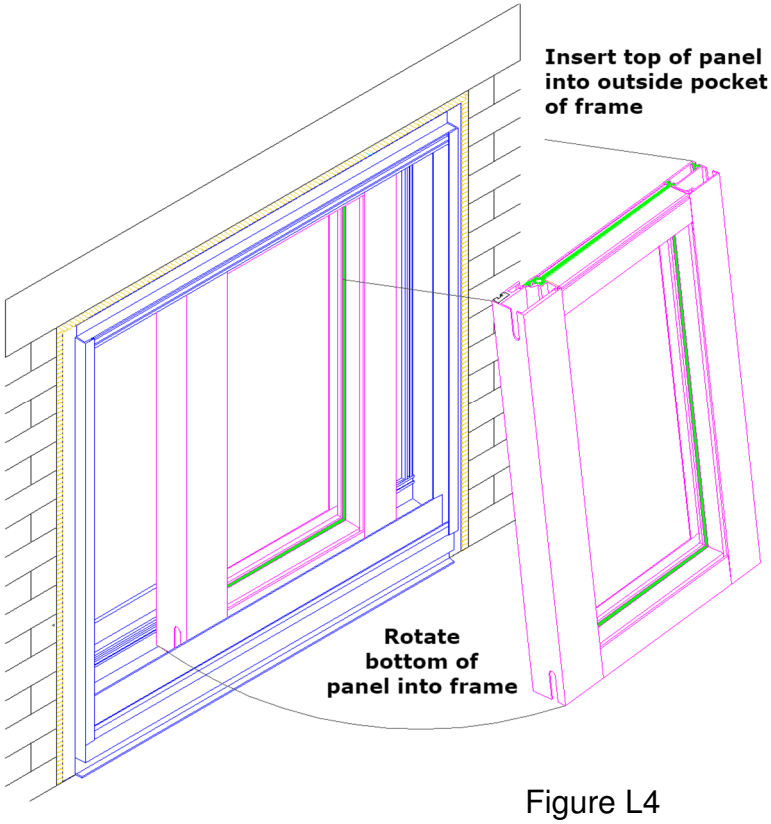


Figure L4

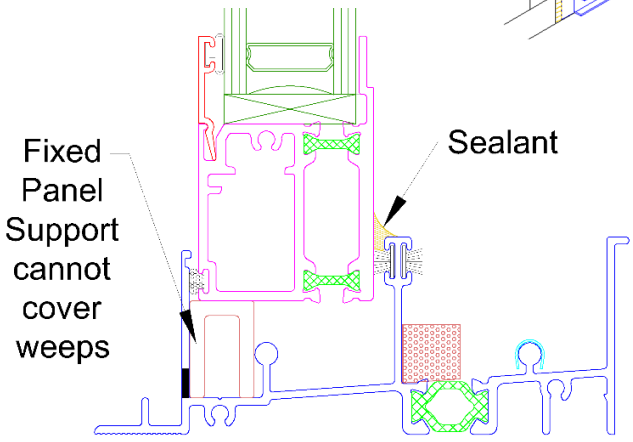


Figure L5

S0900 Sliding Glass Door

VII. Interlock Retaining Angle Installation

A. Lift fixed interlock panel corner and insert retainer angle in the vertical hollow of the interlock bottom end and return panels to adjusted fixed position (See Figure L6). This must be done before the fixed panel clips (Operation #IX on Page 21) can be attached to the jambs.

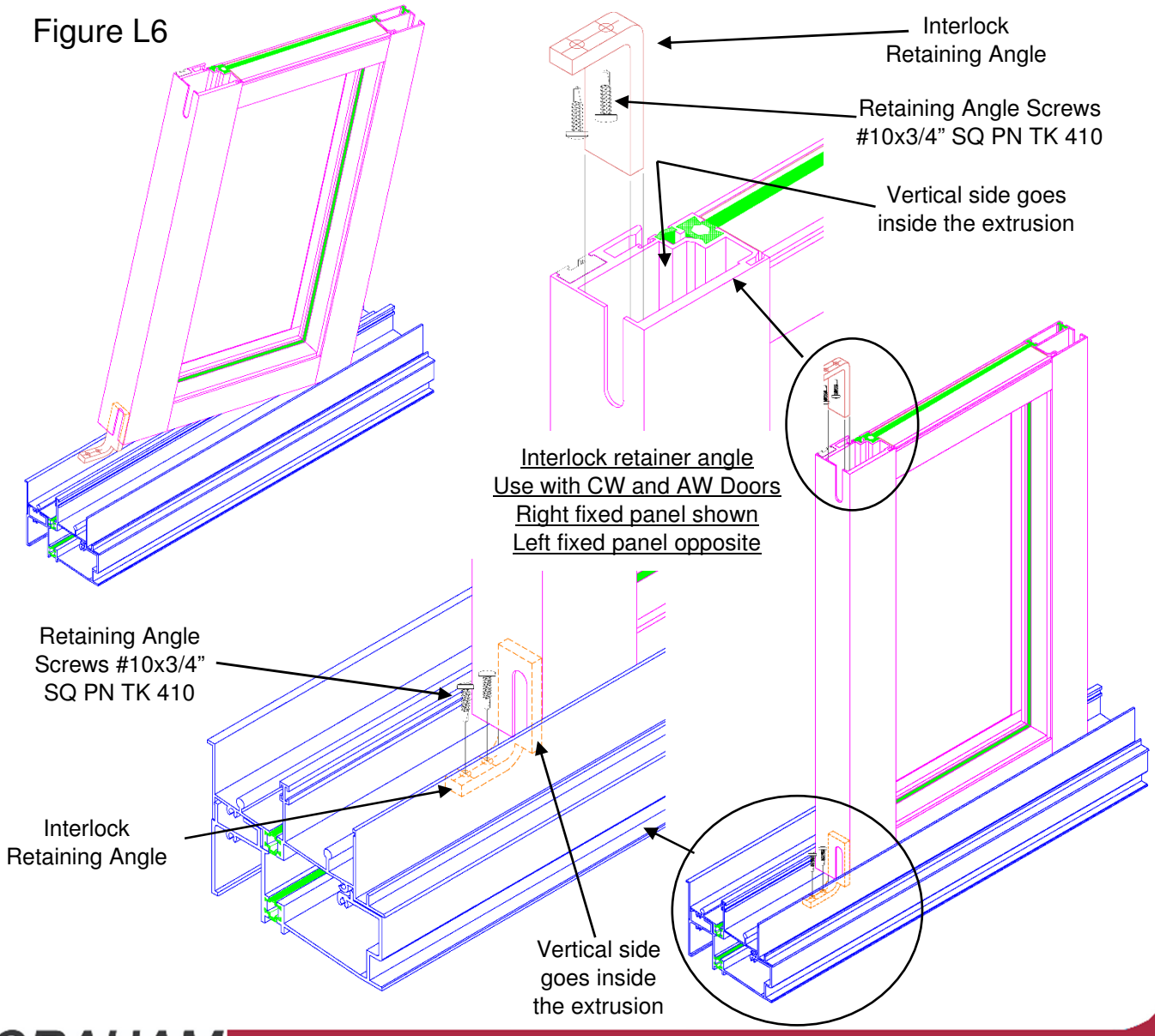
B. Check the plastic weatherstrip holder in the interlock. Make sure the weatherstrip holder is centered in the interlock between the head and sill parting strip. (See Pictures L8 and L9)

C. Install fixed panel clips as in Operation #IX to secure fixed panels in place.

D. Install interlock retaining angle in the head end of the fixed interlock and attach the angle to the frame head using the provided # 10 x 3/4" self-drilling screws (2 screws required). The vertical side of the retaining angle goes inside the hollow of the interlock.

E. Attach the sill retaining angle at the sill using provided # 10 x 3/4" self-drilling screws (2 screws required). The vertical side of the retaining angle goes inside the hollow of the interlock.

Figure L6



S0900 Sliding Glass Door

VIII. Fixed Panel Seal

A. Set the fixed panel tight against the jamb. Apply a bead of silicone sealant around the interior of the panel at the parting strip joint. Make sure to seal the weatherstrip holder at the interlock ends and at the thermal break joints.

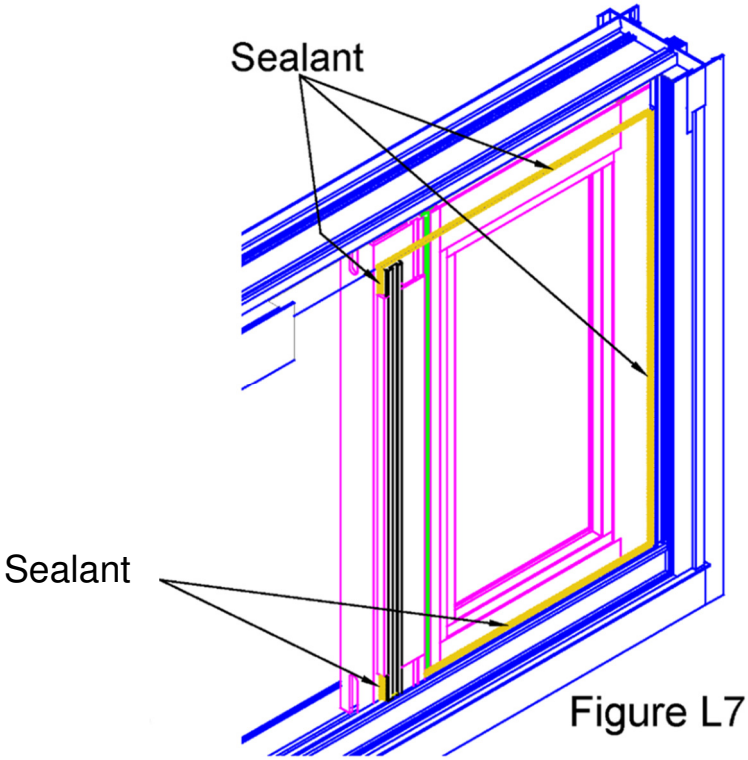
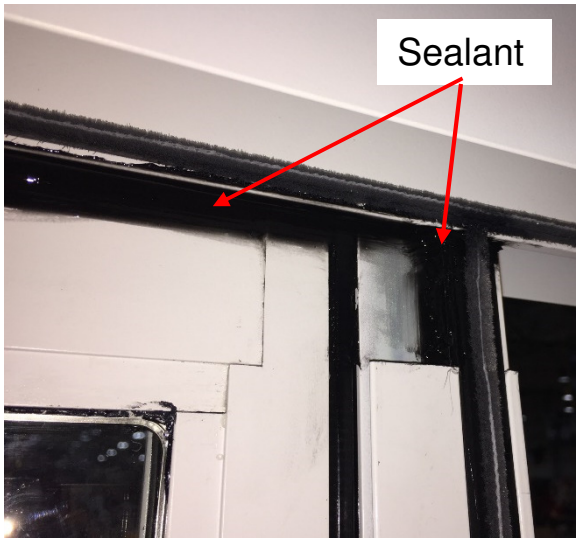
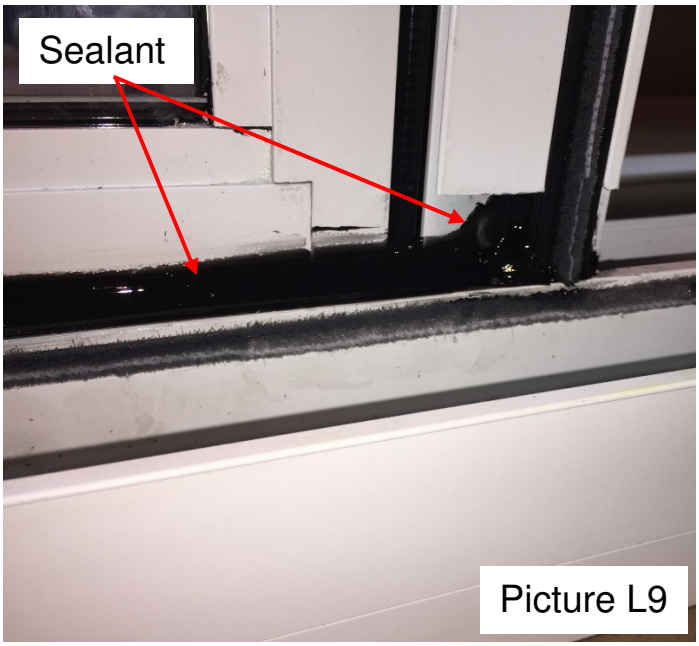


Figure L7



Picture L8



Picture L9

Picture L10

S0900 Sliding Glass Door

IX Fixed Panel Clip

A. Remove weatherstrip from interior side of fixed jamb. Install panel clip into weatherstrip track (full length). Attach panel clip to panel with #8 x 1/2" self-drilling screws into pre-drilled holes to secure fixed panel in place.

B. Snap panel clip cover into fixed panel clip.

C. Attach rubber bumper to panel clip cover with #8 x 1-1/4 pan head screw.

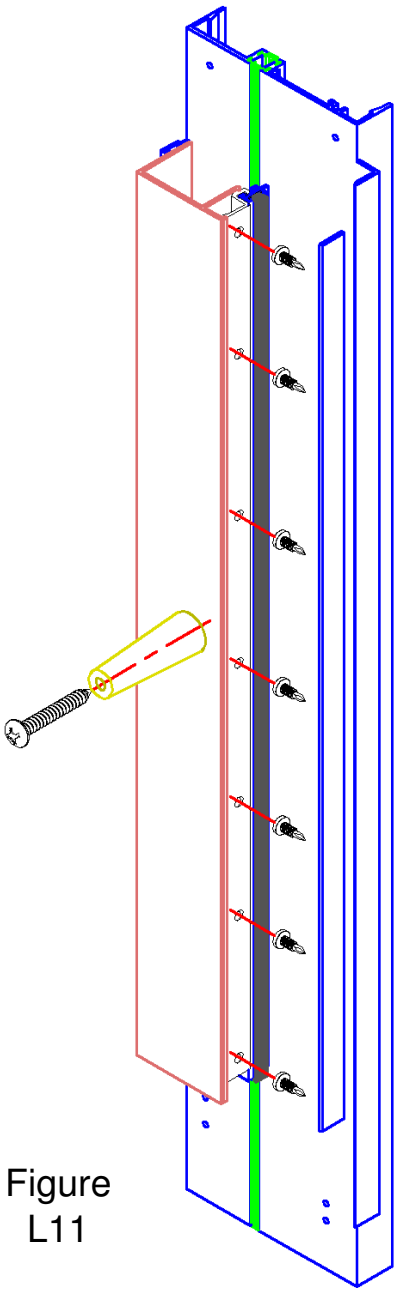


Figure L11

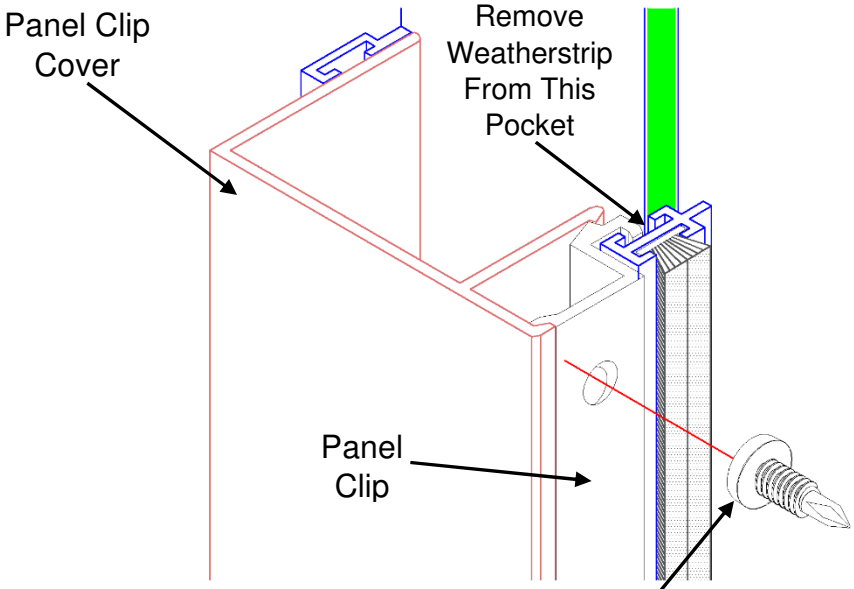
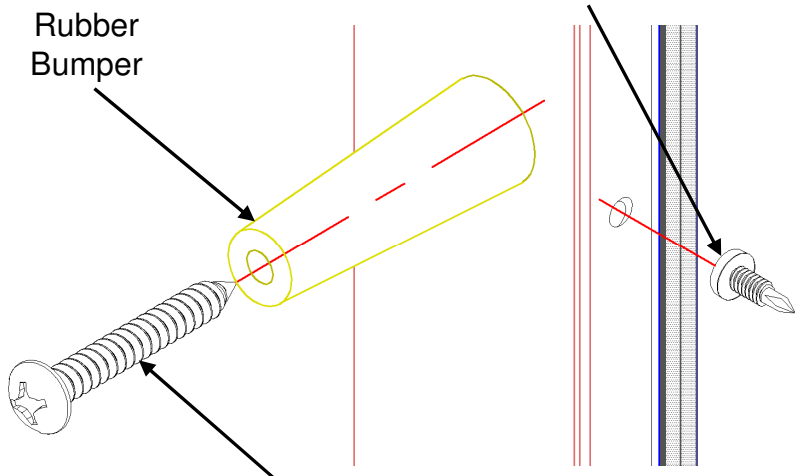


Figure L12



S0900 Sliding Glass Door

X. OXO Astragal Attachment

NOTE: This instruction applies to the OXO door only

A. Attach astragal to jamb of fixed panel with #8x1/2 self-drilling screws. Attach astragal head & sill clips at head & sill with #10x3/4 self-drilling screws. Seal astragal at head & sill ends and install astragal and install screw snap cap.

B. The bottom astragal sill clip will need holes pre-drilled into the sill. Once drilled, fill the holes with sealant, install the astragal sill clip, and install the screws. Seal over the heads of the screws.

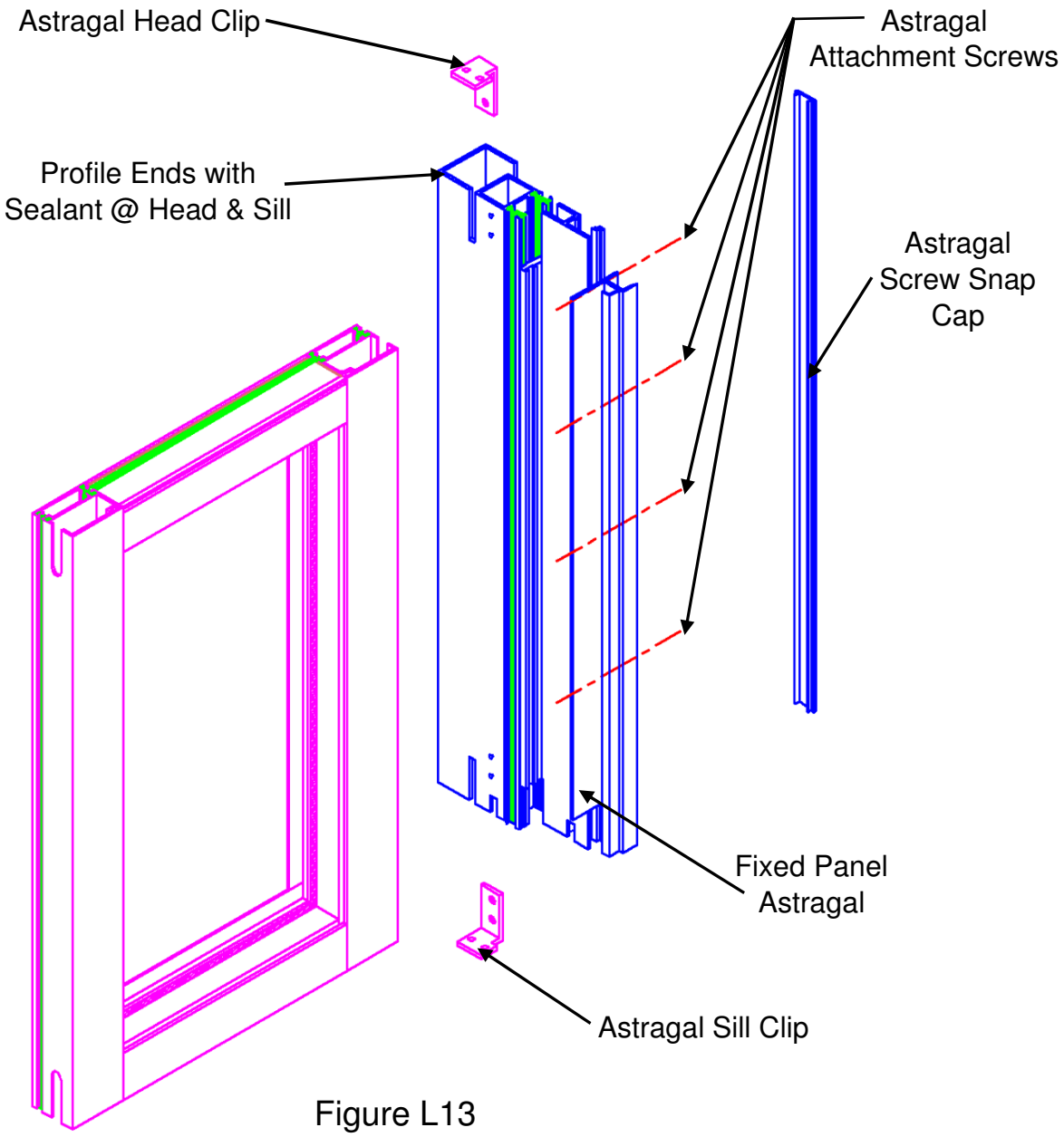


Figure L13

S0900 Sliding Glass Door

XI. Install Operable Panel

A. Prior to installing the door panel, snap the threshold cover into the exterior track with slope to exterior of the door sill.

B. Insert the head of the operable panel into the inside pocket of the frame head. Swing in until sill of operable panel is over the inside pocket of the sill. Set the panel down on the sill rollers (See Figure L14).

C. Adjust rollers using hand screwdriver (NEVER use power tools). Lift lower panel corner to remove weight from roller (See Figure #L15). Adjust roller until panel rolls freely. DO NOT OVER-ADJUST. Adjust panel to be plumb with lock jamb and slide panel into jamb pocket.

D. Lubricate the rollers with a silicone-based lubricant, if needed.

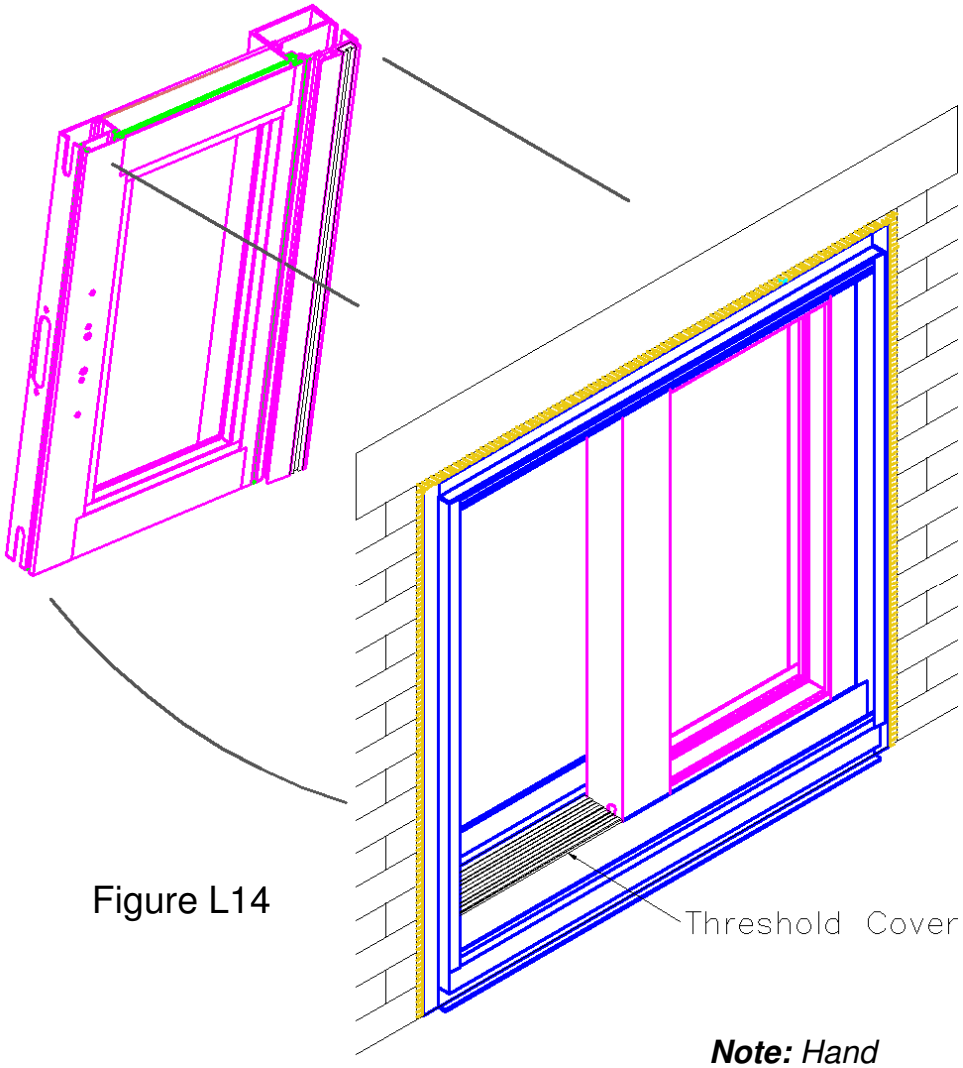
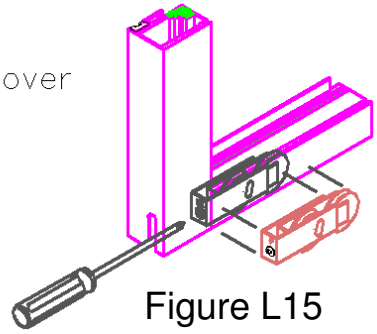


Figure L14



Note: *Hand tighten only*

Figure L15

S0900 Sliding Glass Door

OXXO Closure Channel

NOTE: This instruction applies to the OXXO door only

A. Attach closure channel flush with head & sill after operable panels have been installed, rollers adjusted & hardware attached (See Figure L16).

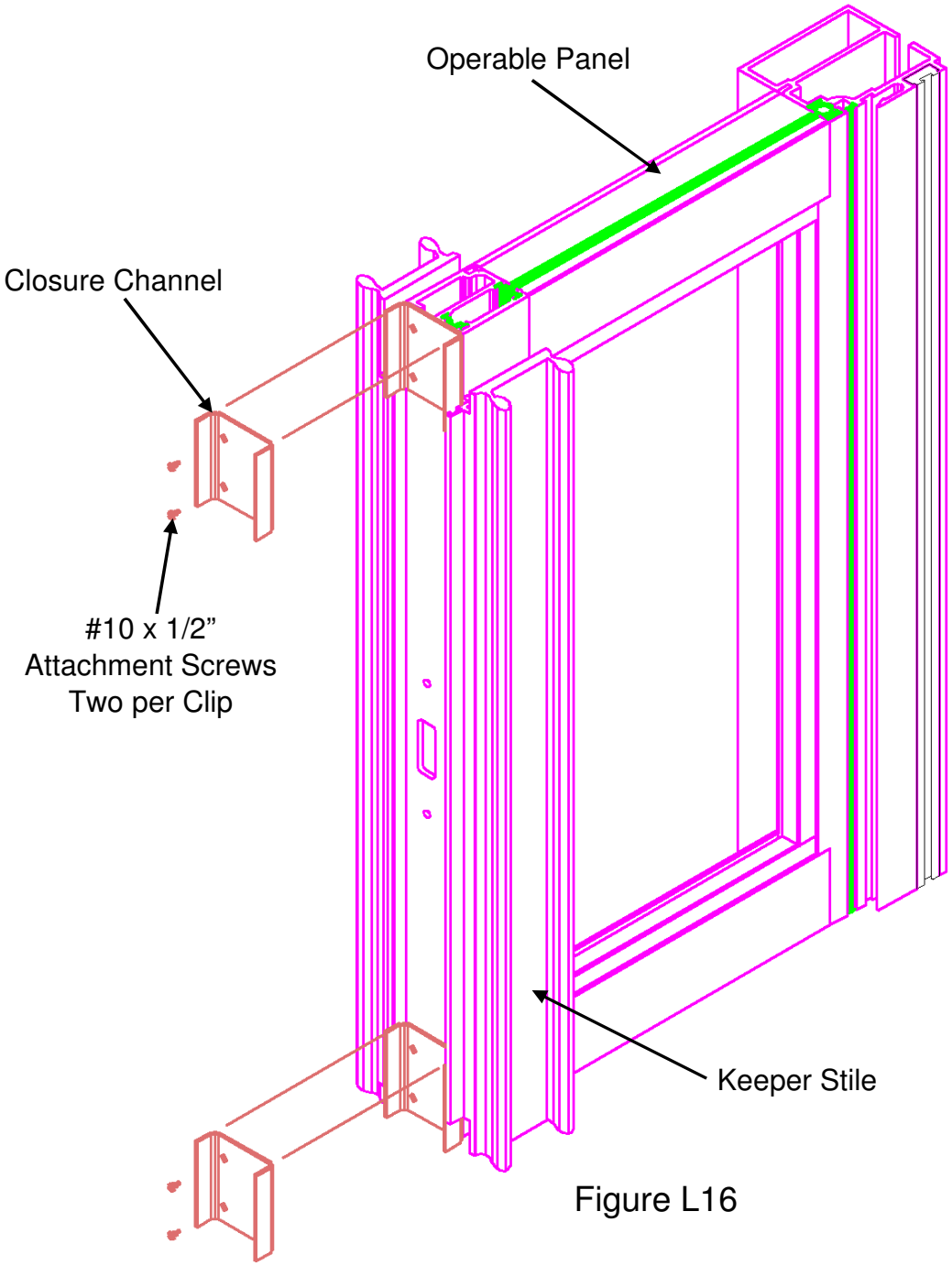


Figure L16

S0900 Sliding Glass Door

XII. Locking Mechanism

CAUTION: Hand tighten only; use of power tools may cause damage

A. To install the mortis lock set, activate the lock mechanism. Set the mortis lock to locked position by grasping the strike hook and rotating the mortis lock into the slot as shown in Picture L17. Pull mortis lock flush with interior of slot and secure in place with the two #6 flat head mounting screws provided as shown in Picture L18.

Picture L17

Picture L18

XIII. Locking Handle Assembly

CAUTION: Hand tighten only; use of power tools may cause damage.

A. (Optional) If installing keyed handle kit, insert key cylinder into back of the exterior handle and secure with #8-32 screw provided. Refer to the instructions in the handle kit for further instructions on the installation and use of the keyed cylinder.

B. Insert the thumb lever into the mortis lock hub from the interior side.

C. Place the interior and exterior handles on the door and secure in place with the #8-32 screws provided.

D. Install one keeper screw and adjust the keeper for proper latch engagement. Then install the remaining keeper screws.

E. Strike Hook Adjustment: After the Mortis Lock and keeper are aligned, the in and out Strike Hook adjustment can be made by turning the screws on the face of the mortis lock.

F. Complete the handle assembly as shown in Figure L19.

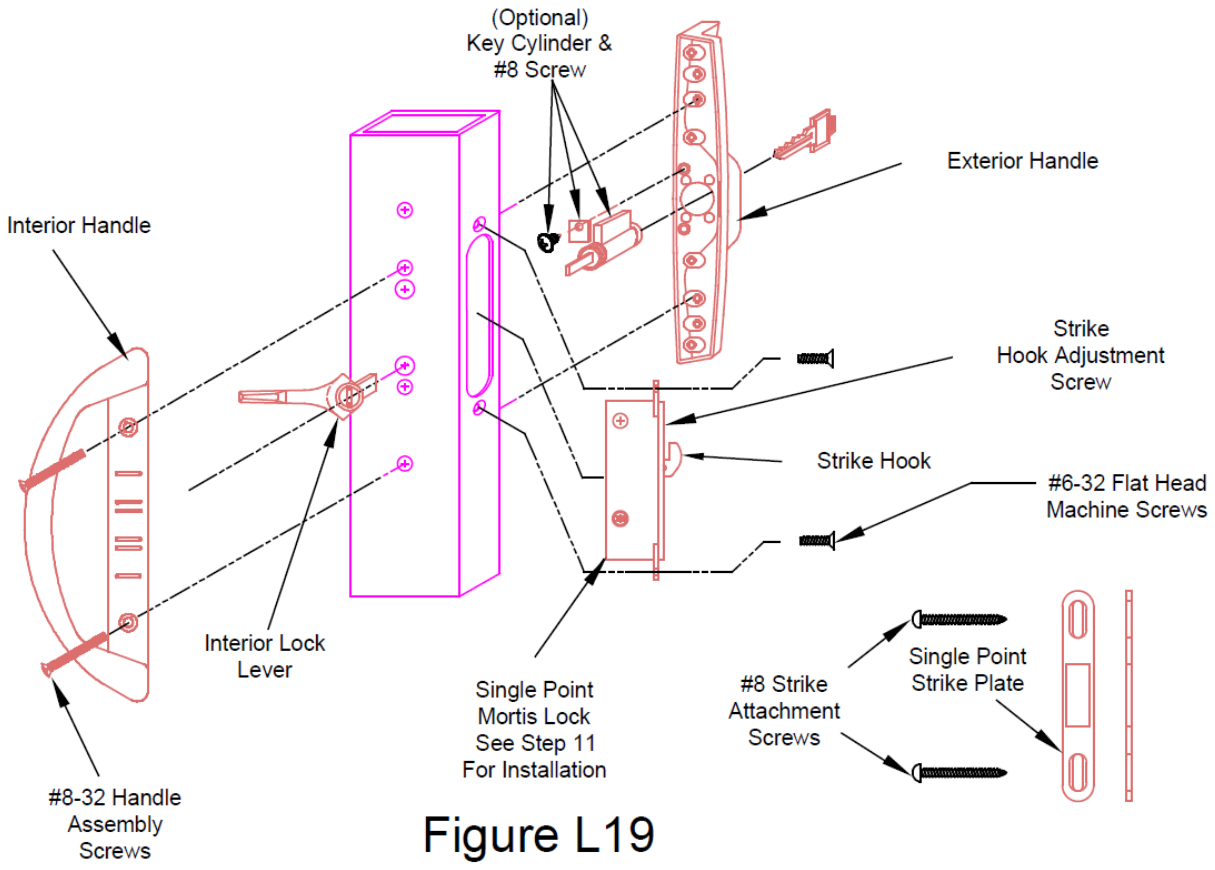


Figure L19

S0900 Sliding Glass Door

XIV. Optional Screen Assembly

A. Using the provided #8-32 x 3/8" Screws attach the rollers to the "Z" bar in the pre-punched slots a shown in Figure S1.

B. The "Z" bar will be approximately 1" shorter than the width of the screen. Center the screen on the "Z" bar and attach using provided #6 x 3/8" screws.

C. Position screen rollers in screen track by rotating into position as shown in Figure S2.

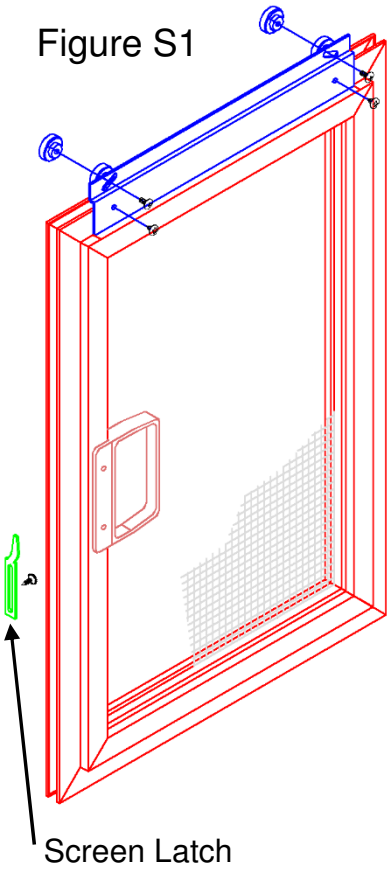
D. Adjust, square & plumb screen in the opening.

E. Adjust the bottom rollers down until they loosely touch the bottom screen track as shown in Figure S3.

F. If the screen latch is needed, align screen with jamb and mark strike location. Attach strike with provided #6 x 5/8" screws. Position strike pointing up, so latch will engage when moved down (See Figure S1).

G. The rubber bug flap on the screen will need trimmed so that the edge slightly overlaps the glazing leg on the fixed panel, as shown in Figure S4.

Figure S1



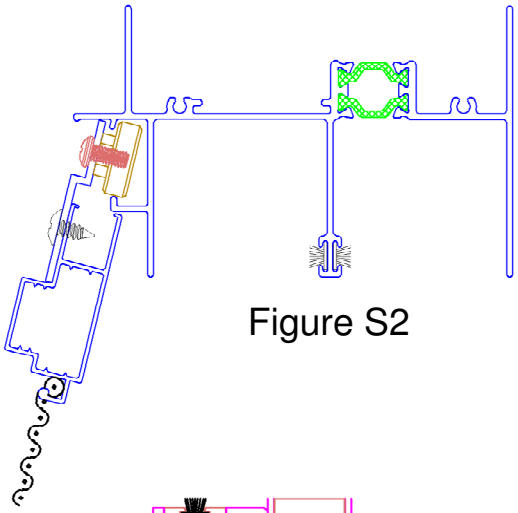


Figure S2

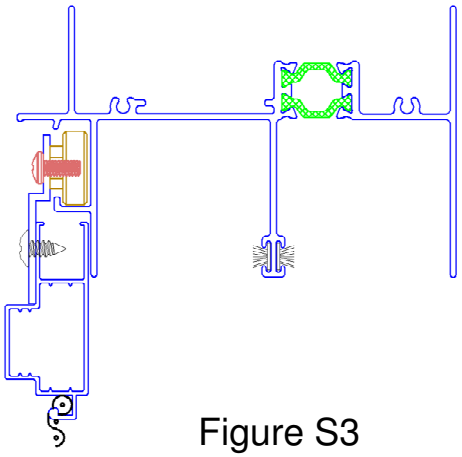
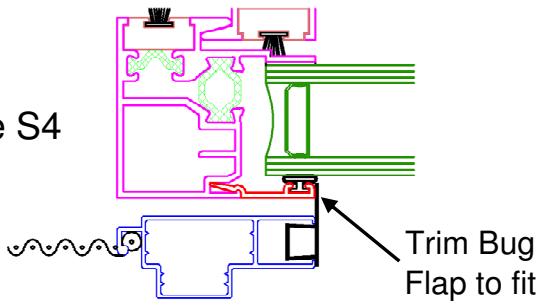
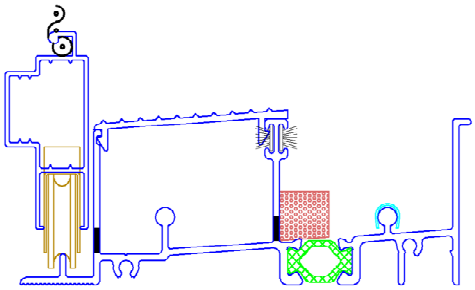


Figure S3

Figure S4





S0900 Sliding Glass Door

OXXO Screen Astragal Assembly

<u>NOTE:</u> This instruction applies to the OXXO door only.

A. Place "non- flared" edge of astragal over handle side edge of less active screen frame.

B. With astragal in place, pre-drill (3) 3/32" dia. holes through astragal & into edge of screen. Locate top & bottom holes roughly 6" from ends of screen. Make sure to locate center screw hole several inches above screen handle. Install (3) 1" long self-drilling screws provided through astragal and into screen frame.

C. Install keeper/ strike of screen at proper height to engage the handle latch.

D. Screens can then be operated together (latched) or Individually (Unlatched).

<u>Note:</u> In some cases, astragal length supplied may have to be shortened slightly so that astragal does not interfere with top or bottom screen track.

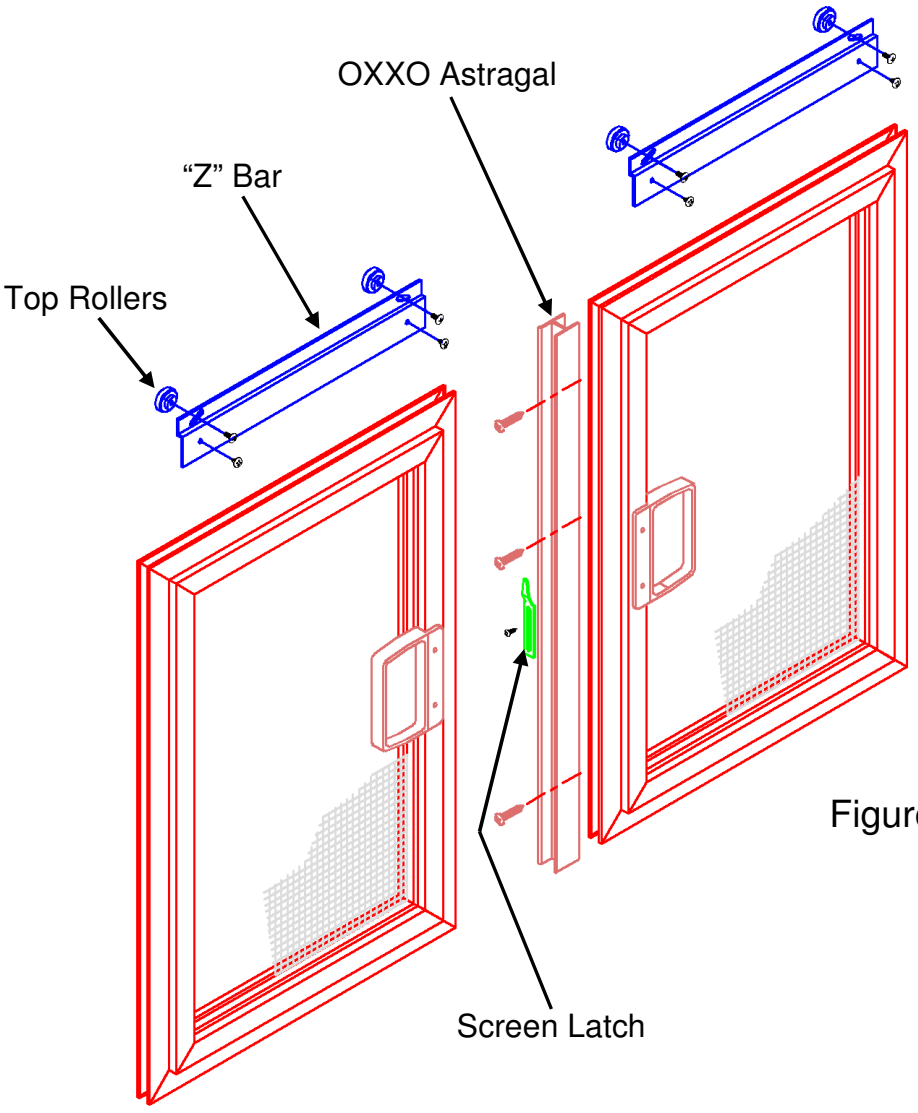
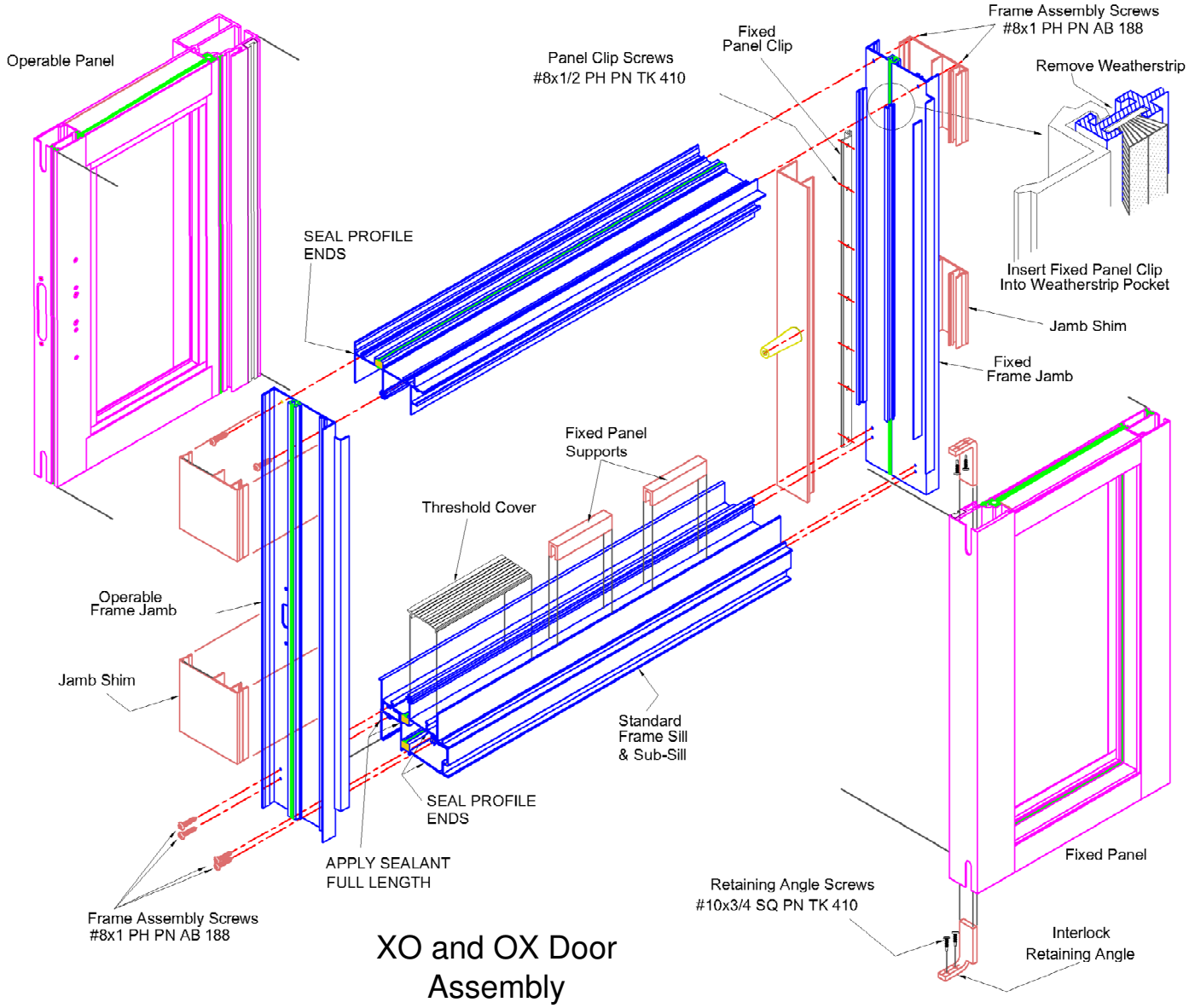


Figure S5

S0900 Sliding Glass Door

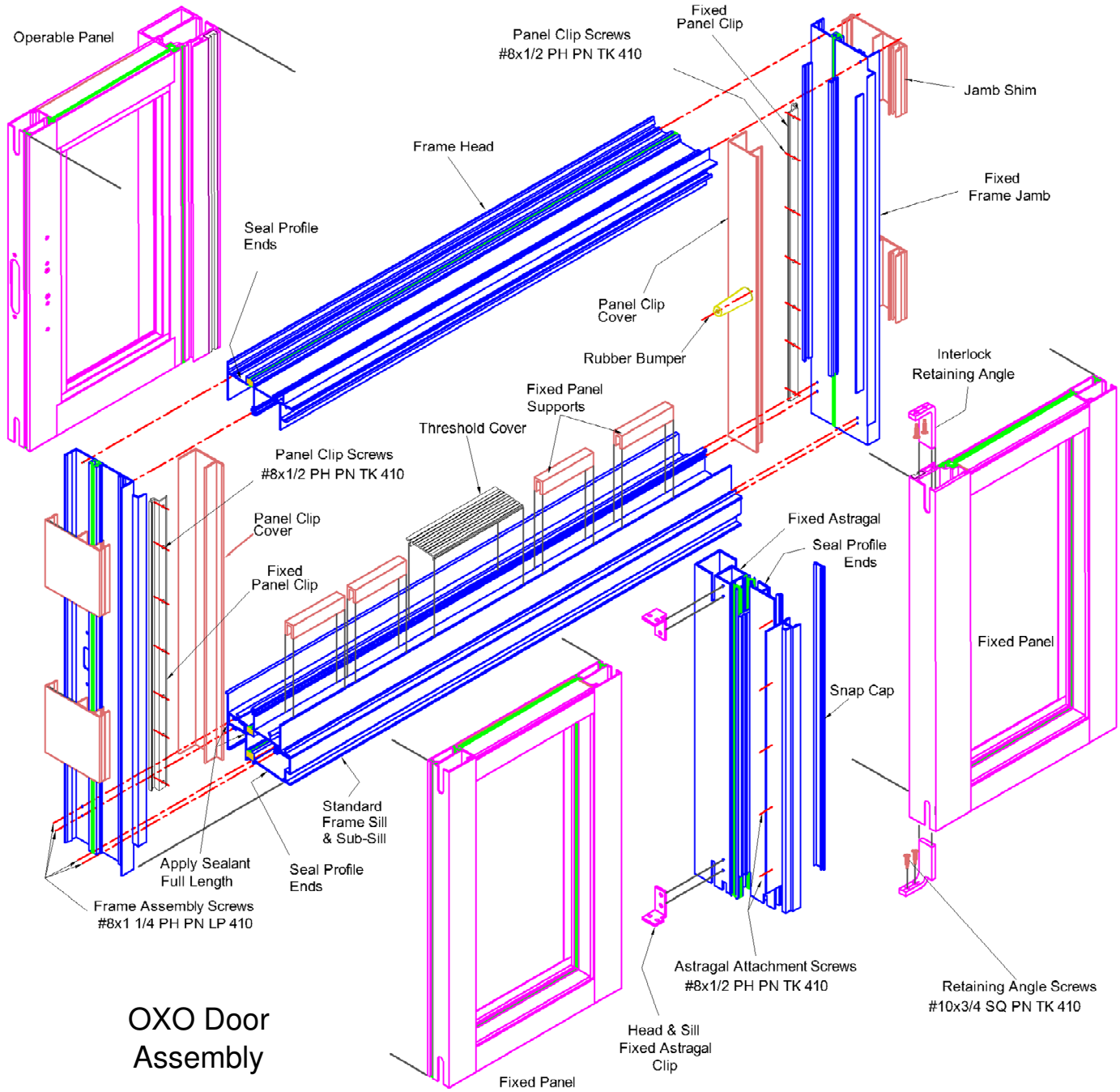
XV. Exploded Views:



XO and OX Door Assembly

S0900 Sliding Glass Door

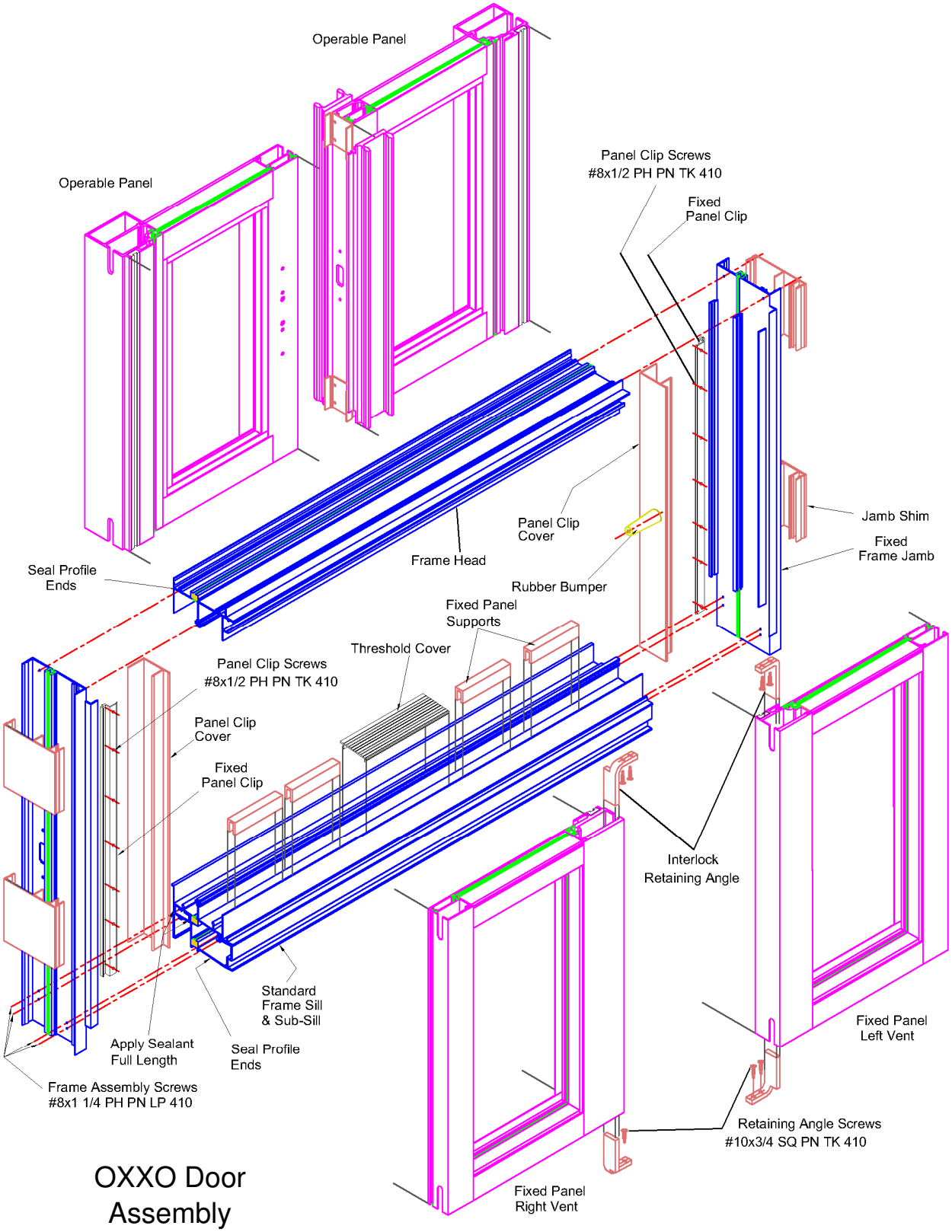
XV. Exploded Views (Continued)



OXO Door Assembly

S0900 Sliding Glass Door

XV. Exploded Views (Continued)



OXXO Door Assembly