SERIES 3000

SLIDING PATIO DOOR

CRL®

U.S. ALUMINUM

Phone: (800) 262-5151 • Fax: (866) 262-3299
crlaurence.com • usalum.com • crl-arch.com

11M0162_REV_B

HANDLING, STORAGE, AND PROTECTION OF ALUMINUM

The following precautions are recommended to protect the material against damage. Following these precautions will help ensure early acceptance of your products and workmanship.

A. HANDLE CAREFULLY.
All aluminum materials at job site must be stored in a safe place, well removed from possible damage by other trades. Cardboard wrapped or paper interleaved materials must be kept dry.

B. CHECK ARRIVING MATERIALS.
Check quantity counts and keep records of where various materials are stored.

C. KEEP MATERIALS AWAY FROM WATER, MUD, AND SPRAY.
Prevent cement plaster or other materials from damaging the finish.

D. PROTECT THE MATERIALS AFTER ERECTION.
Protect erected frame with polyethylene or canvas splatter screen. Cement, plaster, terrazzo, other alkaline solutions, and acid based materials used to clean masonry are harmful to the finish. *If any of these materials come in contact with the aluminum, immediately remove with water and mild soap.*
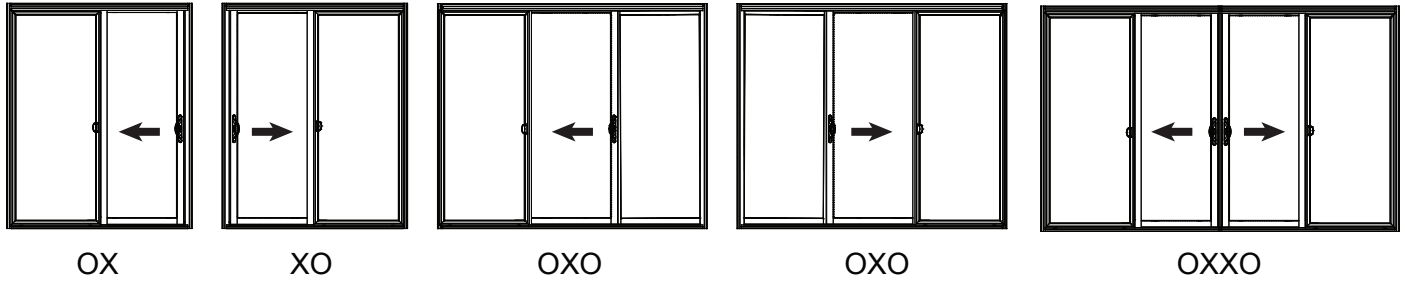
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GENERAL INSTALLATION NOTES
RECOMMENDED GUIDELINES FOR ALL INSTALLATIONS

1. **REVIEW CONTRACT DOCUMENTS.** Check shop drawings, installation instructions, architectural drawings, and shipping lists to become thoroughly familiar with the project. The shop drawings take precedence and include specific details for the project. Note any *field verified* notes on the shop drawings prior to installing. The installation instructions are of a general nature and cover most conditions.

2. **INSTALLATION.** The installation location must be level and plumb before beginning. All materials are to be installed plumb, level, and true. Install operable doors preglazed only.

3. **BENCH MARKS.** All work should start from bench marks and/or column lines as established by the architectural drawings and the general contractor with guaranteed accuracy. Working from these datum points and lines determine:
    a) The plane of the wall in reference to offset lines provided on each floor.
    b) The finish floor lines in reference to bench marks on the outer building columns.
    c) Mullion spacing from both ends of masonry opening to prevent dimensional build-up of daylight opening.

4. **FIELD WELDING.** All field welding must be adequately shielded to avoid any splatter on glass or aluminum. Results will be unsightly and/or structurally unsound. Advise general contractor and other trades accordingly. All field welds of steel anchors must receive touch-up paint (zinc chromate) to avoid rust.

5. **SURROUNDING CONDITIONS.** Make certain that construction which will receive your materials is in accordance with the contract documents. If not, notify the general contractor in writing and resolve differences before proceeding with work.

6. **ISOLATION OF ALUMINUM.** Aluminum to be placed in direct contact with uncured masonry or incompatible materials should be isolated with a heavy coat of zinc chromate or bituminous paint.

7. **SEALANTS.** Sealants must be compatible with all materials with which they have contact, including other sealant surfaces. Consult with sealant manufacturer for recommendations relative to joint size, shelf life, compatibility, cleaning, priming, tooling, adhesion, etc. It is the responsibility of the *Glazing Contractor* to submit a statement from the sealant manufacturer indicating that glass and glazing materials have been tested for compatibility and adhesion with glazing sealants, and interpreting test results relative to material performance, including recommendations for primers and substrate preparation required to obtain adhesion. The chemical compatibility of all glazing materials and framing sealants with each other and with like materials used in glass fabrication must be established. This is required on every project.

8. **FASTENING.** Within the body of these instructions "fastening" means any method of securing one part to another or to adjacent materials. Only those fasteners used within the system are specified in these instructions. Due to the varying perimeter conditions and performance requirements, perimeter and anchor fasteners are not specified in these instructions. For perimeter and anchor fasteners refer to the shop drawings or consult the fastener supplier.

9. **BUILDING CODES.** Due to the diversity in state/provincial, local, and federal laws and codes that govern the design and application of architectural products, it is the responsibility of the individual architect, owner, and installer to assure that products selected for use on projects comply with all the applicable building codes and laws. U.S. Aluminum exercises no control over the use or application of its products, glazing materials, and operating hardware and assumes no responsibility thereof.

10. **EXPANSION JOINTS.** Expansion joints and perimeter seals shown in these instructions and in the shop drawings are shown at normal size. Actual dimensions may vary due to perimeter conditions and/or differences in metal temperature between the time of fabrication and the time of installation. Gaps between expansion members should be based on temperature at time of installation.

11. **WATER HOSE TEST.** As soon as a representative amount of the doors has been glazed (500 square feet or 46.5 m^2) a water hose test should be conducted in accordance with AAMA 501.2 specifications to check the installation. On all jobs the hose test should be repeated every 500 square feet (46.5 m^2) during the glazing operation.

12. **COORDINATION WITH OTHER TRADES.** Coordinate with the general contractor any sequence with other trades which offset curtain wall installation (i.e. fire proofing, back-up walls, partitions, ceilings, mechanical ducts, converters, etc.).

13. **CARE AND MAINTENANCE.** Final cleaning of exposed aluminum surfaces should be done in accordance with AAMA 609.1 for anodized aluminum and 610.1 for painted aluminum.
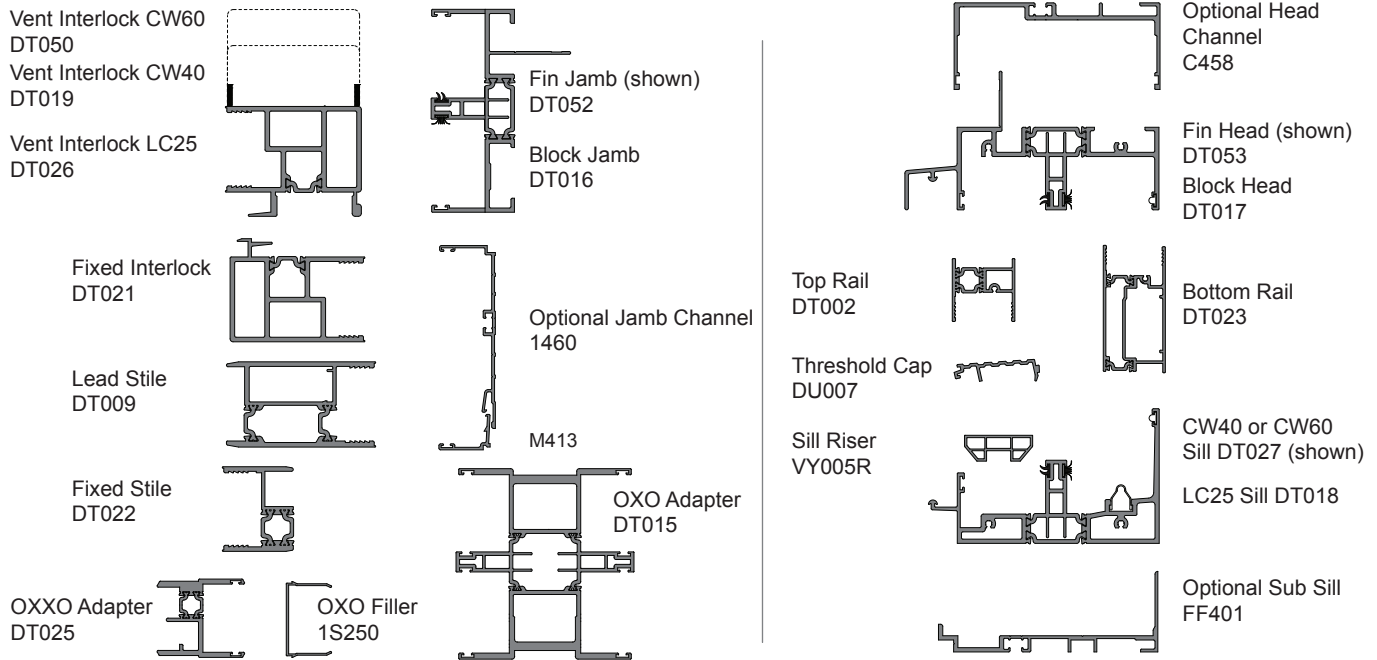
14. **JOB SITE ESSENTIALS.** See pages 25 and 26.

PANEL CONFIGURATIONS

| OX | XO | OXO | OXO | OXXO |

PARTS LIST

VERTICAL MEMBERS

Vent Interlock CW60
DT050

Vent Interlock CW40
DT019

Vent Interlock LC25
DT026

Fin Jamb (shown)
DT052

Block Jamb
DT016

Fixed Interlock
DT021

Lead Stile
DT009

Optional Jamb Channel
1460

M413

Fixed Stile
DT022

OXO Adapter
DT015

OXXO Adapter
DT025

OXO Filler
1S250

HORIZONTAL MEMBERS

Optional Head Channel
C458

Fin Head (shown)
DT053

Block Head
DT017

Top Rail
DT002

Bottom Rail
DT023

Threshold Cap
DU007

Sill Riser
VY005R

CW40 or CW60
Sill DT027 (shown)

LC25 Sill DT018

Optional Sub Sill
FF401

Part No.	Description	Part No.	Description	Part No.	Description
1460	Optional Jamb Channel	DT002	Top Rail - LC25, CW40, CW60	DT027	Sill - CW40, CW60
1S250	OXO Snap-In Filler	DT009	Lead Stile - LC25, CW40, CW60	DT050	Vent Interlock - CW60
B0H1003	3" Dia. Tandem Roller Housing	DT015	OXO Adapter	DT052	Fin Jamb - LC25, CW40, CW60
B0H1005	2-1/4" Radius End Patio Door Bumper	DT016	Block Jamb - LC25, CW40, CW60	DT053	Fin Head - LC25, CW40, CW60
B0H1006	3-1/2" Radius End Patio Door Bumper	DT017	Block Head - LC25, CW40, CW60	DU007	Threshold Cap
B0H1007	Round Patio Door Bumper	DT018	Sill - LC25	FF401	Optional Sub Sill
B0H1009	Rubber Vent Stop	DT019	Vent Interlock - CW40	VY003R	Fixed Interlock Isolator
B0H1011	Active Hardware Kit	DT021	Fixed Interlock - LC25, CW40, CW60	VY004R	Vinyl Isolator
B0H1012	Inactive Hardware Kit	DT022	Fixed Stile - LC25, CW40, CW60	VY005R	Sill Riser
B0H1875	1-13/16" Dia. Tandem Roller Housing	DT023	Bottom Rail - LC25, CW40, CW60	VY006R	Super Bug Strip
C458	Optional Head Channel	DT025	OXXO Adapter	WH803	Fixed Panel Clips
DS160	Door Bumper Stop	DT026	Vent Interlock - LC25		

EXTRUSION IDENTIFICATION KEY

EXTERIOR VIEW
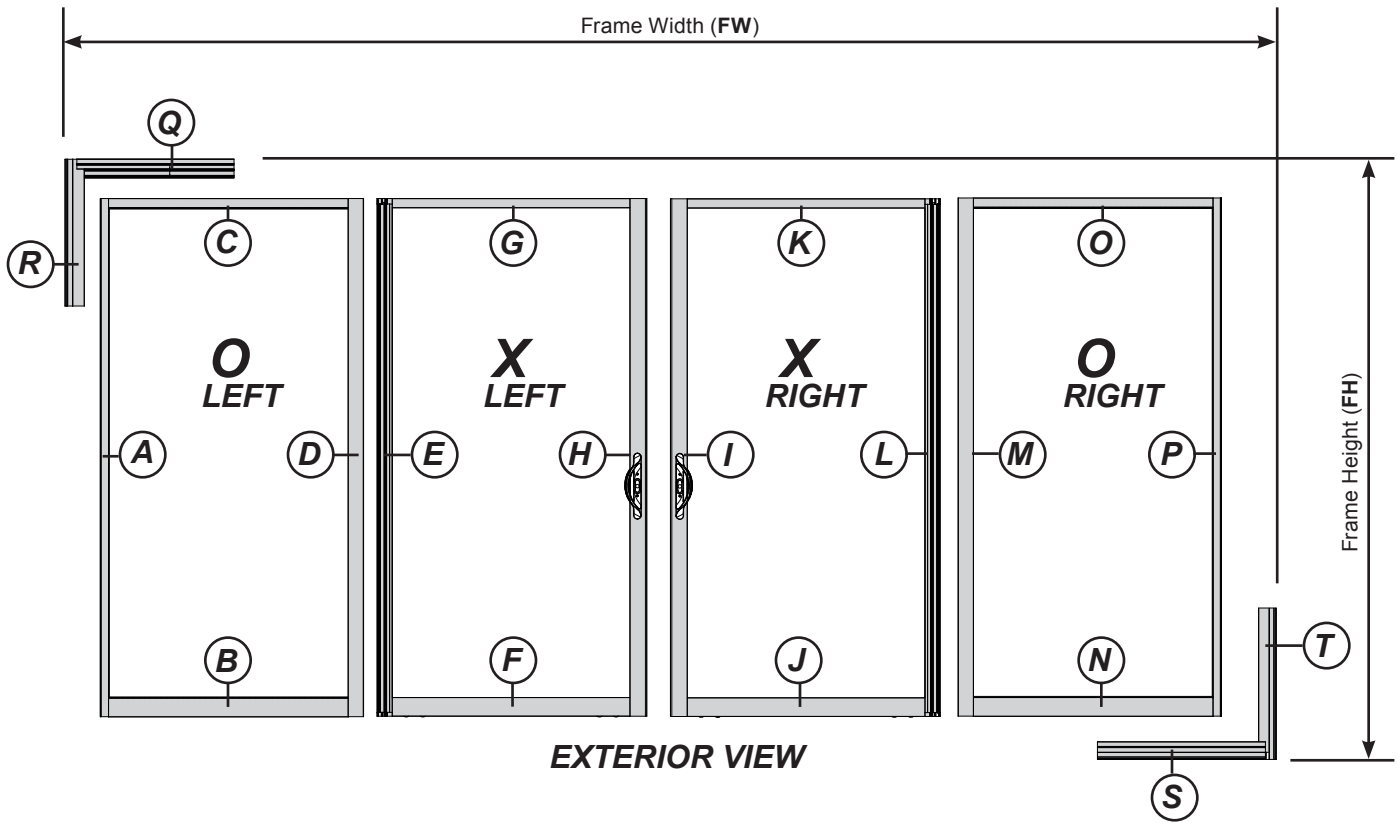
EXTRUSION IDENTIFICATION

Your order has been carefully fabricated, inspected, and packaged to work order specifications. We have placed an Indicator Label on the inside or back side of each part before final packaging. Use the Identification Key (above) to organize and lay out each Series 3000 Sliding Patio Door System before proceeding with the assembly process.

(A) O-Left Fixed Stile

(B) O-Left Bottom Rail

(C) O-Left Fixed Top Rail

(D) O-Left Fixed Interlock

(E) X-Left Vent Interlock

(F) X-Left Bottom Rail

(G) X-Left Top Rail

(H) X-Left Lead Stile

(I) X-Right Lead Stile

(J) X-Right Bottom Rail

(K) X-Right Top Rail

(L) X-Right Vent Interlock

(M) O-Right Fixed Interlock

(N) O-Right Bottom Rail

(O) O-Right Top Rail

(P) O-Right Fixed Stile

(Q) Frame Head

(R) Left Jamb

(S) Sill

(T) Right Jamb

GLASS SIZE CHART

		LC25	CW40	CW60
XO	Frame Width	$\dfrac{FW - 6\text{-}1/2"}{2}$	$\dfrac{FW - 6\text{-}1/2"}{2}$	$\dfrac{FW - 6\text{-}1/2"}{2}$
XO	Frame Height	FH - 6-1/2"	FH - 7-1/2"	FH - 7-1/2"
OX	Frame Width	$\dfrac{FW - 6\text{-}1/2"}{2}$	$\dfrac{FW - 6\text{-}1/2"}{2}$	$\dfrac{FW - 6\text{-}1/2"}{2}$
OX	Frame Height	FH - 6-1/2"	FH - 7-1/2"	FH - 7-1/2"
OXO	Frame Width	$\dfrac{FW - 9\text{-}7/8"}{3}$	$\dfrac{FW - 9\text{-}7/8"}{3}$	$\dfrac{FW - 9\text{-}7/8"}{3}$
OXO	Frame Height	FH - 6-1/2"	FH - 7-1/2"	FH - 7-1/2"
OXXO	Frame Width	$\dfrac{FW - 11\text{-}7/8"}{4}$	n/a	n/a
OXXO	Frame Height	FH - 6-1/2"	n/a	n/a

DOOR FRAME ASSEMBLY

1. Trim excess weatherstrip length flush with ends of cut members.
2. Apply **Cat. No. RTV408** sealant to ends of head, sill, and all fin joints before assembly. (FIG. 1)
3. Assemble the frame using Part. No. 8X1PHPSMS316 #8 x 1" Phillips Pan Head SMS screws. (FIG. 1)

NAIL FIN SHOWN

CAT. NO. RTV408
SEALANT

#8 x 1" PHILLIPS PAN HEAD SMS
Part. No. 8X1PHPSMS316

NOTE: Do NOT cover opening with sealant.

CAT. NO. RTV408
SEALANT

EXTERIOR VIEWS

#8 x 1" PHILLIPS PAN HEAD SMS
Part. No. 8X1PHPSMS316

FIG. 1

APPLY **CAT. NO. RTV408** SEALANT TO THE
FULL PERIMETER OF ASSEMBLED CORNERS

INTERIOR VIEWS
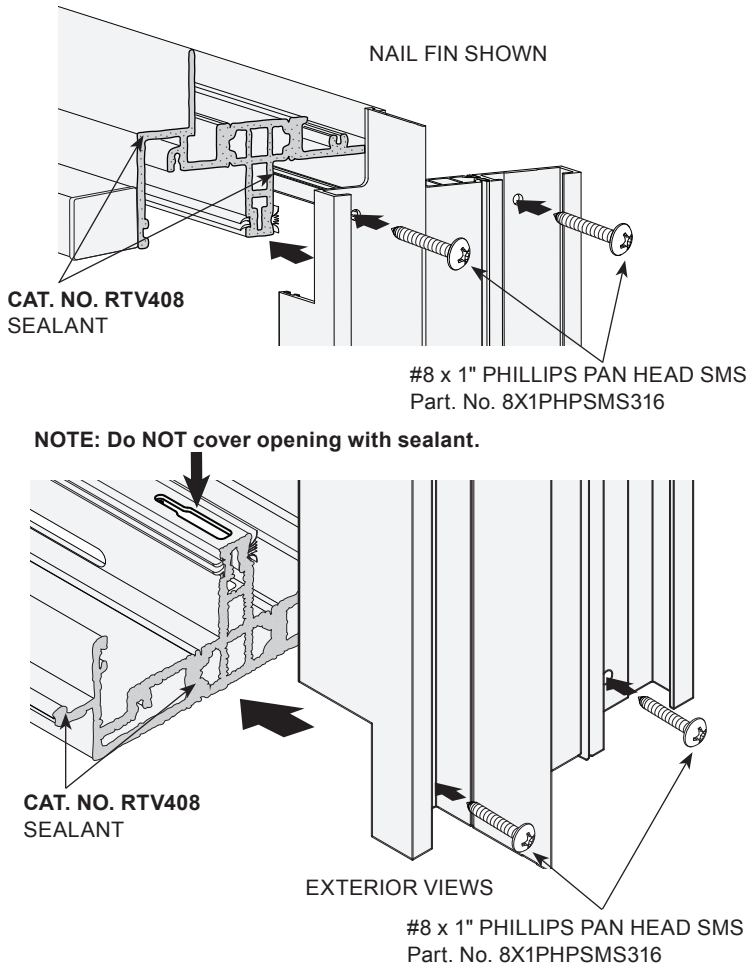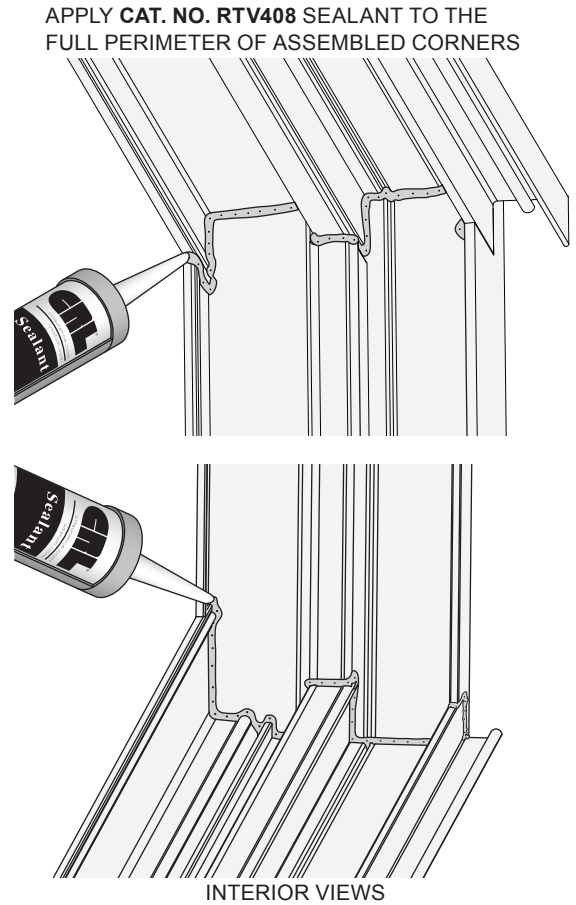
FIG. 2

4. Apply **Cat. No. RTV408** sealant to assembled corners. (FIG. 2)
5. Seal over heads of screws using **Cat. No. RTV408 or Cat. No. 33S** sealant. (FIG. 3)
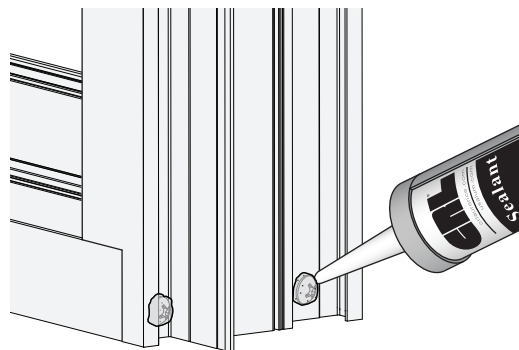
FIG. 3

DOOR PANEL ASSEMBLY AND GLAZING

1. Starting at the center top, wrap the glazing gasket around the perimeter of the glass. Cut partially through the gasket at the glass corners as shown. (FIG. 4)

2. Cut glazing gasket 1/16" (2mm) longer at top center to allow for shrinkage.

CUT GASKET TO LEAVE
1/4" (6 mm) AT INSIDE
CORNER
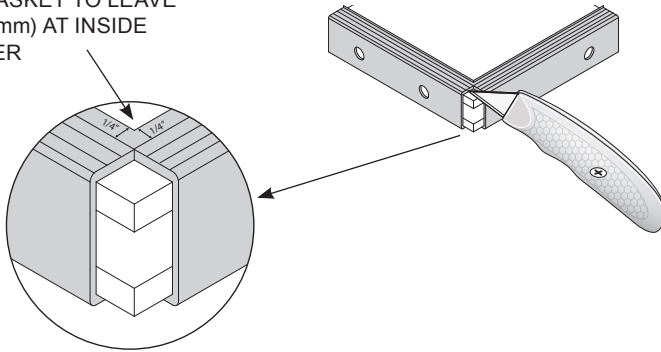
FIG. 4

CUT GASKET
1/16" (2 mm)
LONGER
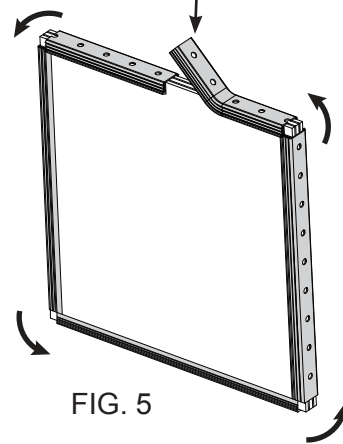
FIG. 5

3. **Install the top rail first**, the bottom rail second, and then the stiles.

4. Using a wood block and Cat. No. ST57532 CRL Soft-Face Power Hitter Mallet, work the top rail onto the glass and gaskets until it is fully seated. (FIG. 6)

PANEL

BOTTOM RAIL

FIG. 6

PANEL

LEAD STILE
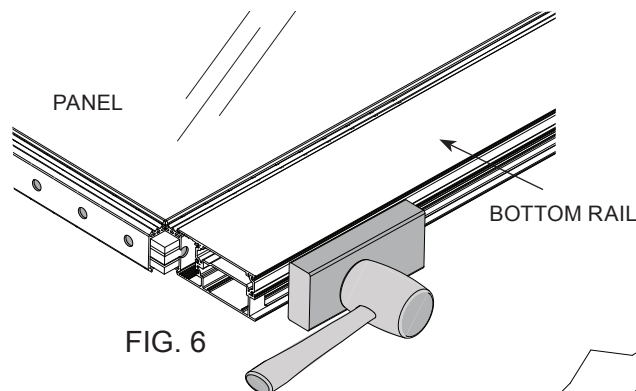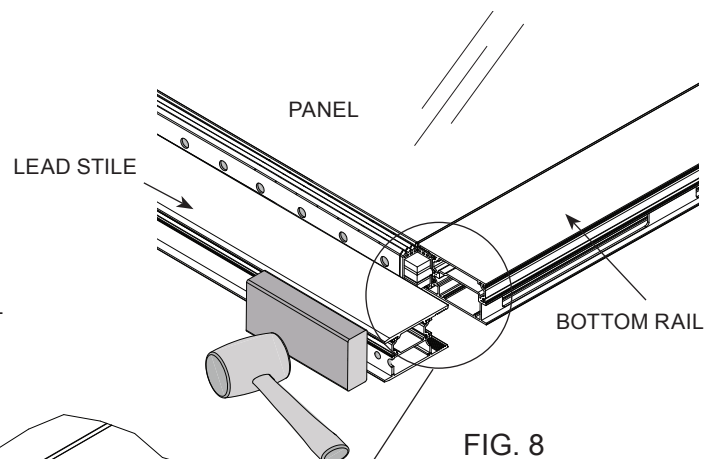
BOTTOM RAIL

FIG. 8

APPLY CAT. NO. RTV408 SEALANT TO
TOP AND BOTTOM RAIL ENDS BEFORE
ASSEMBLY
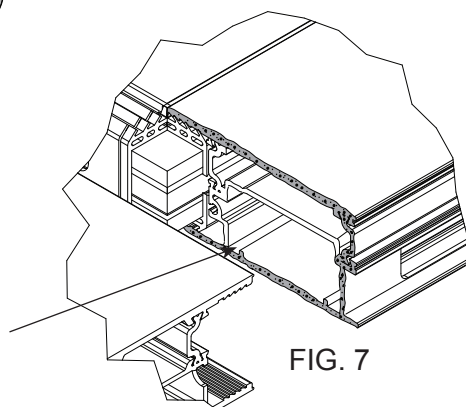
FIG. 7

5. Apply Cat. No. RTV408 sealant to the ends of the bottom rail. (FIG. 7)

6. Install the door stile and interlock. (FIG. 8)

7. Apply **Cat. No. RTV408** sealant to both ends of the top rail and install it. Tool excess sealant.

DOOR PANEL ASSEMBLY AND GLAZING (Continued)

8. Secure all corners with fasteners shown. (FIG. 9)

#8 x 3" PHIL PAN HEAD SMS
Part. No. 8X3PHPSMS316

TOP RAIL

#8 x 2" PHIL PAN HEAD SMS
Part. No. 8X2PHPSMS316

FIXED STILE

**FIXED DOOR
EXTERIOR SIDE**

#8 x 2" PHIL PAN HEAD SMS
Part. No. 8X2PHPSMS316

FIXED INTERLOCK
STILE

#8 x 3" PHIL PAN HEAD SMS
Part. No. 8X3PHPSMS316

BOTTOM RAIL
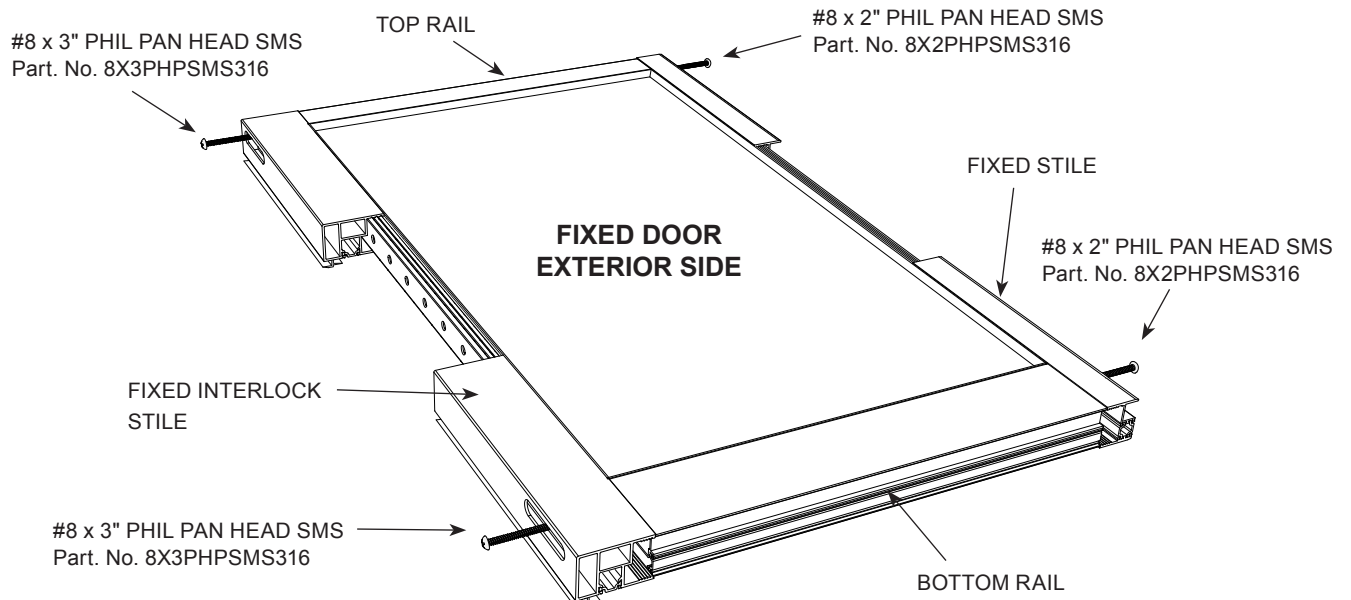
FIG. 9

9. Install the bottom track rollers with Part No. MS23242 (2) 1/4"-20 x 2-1/4" PH SMS and Part No. MS23342 (2) 1/4"-20 x 1-3/4" PH SMS side fasteners. (FIG. 10)

TOP RAIL

#8 x 3" PHIL PAN HEAD SMS
Part. No. 8X3PHPSMS316

#8 x 2" PHIL PAN HEAD SMS
Part. No. 8X2PHPSMS316

LEAD STILE

**SLIDING VENT
EXTERIOR SIDE**

VENT INTERLOCK STILE

#8 x 2" PHIL PAN HEAD SMS
Part. No. 8X2PHPSMS316

#8 x 3" PHIL PAN HEAD SMS
Part. No. 8X3PHPSMS316

(2) 1/4"-20 x 2-1/4"
PHIL PAN-HEAD HD SMS
ROLLER MOUNTING SCREWS
INCLUDED PART NO. MS23242

BOTTOM RAIL

TRACK ROLLERS
Part No. B0H1875

(2) 1/4"-20 x 1-3/4"
PHIL PAN-HEAD HD SMS
ROLLER MOUNTING SCREWS
INCLUDED PART NO. MS23342

FIG. 10

10. Complete the glazing and assembly of all sliding and fixed vents. Adjust rollers to their fully retracted position before installing doors.

FRAME INSTALLATION

IMPORTANT NOTE: The frame sill must be mounted to a flat and level surface to try to avoid the use of shims.

1. Set a separator membrane in a bed of fresh **Cat. No. M64 or Cat. No. 95C** sealant the full length of the frame threshold. (FIG. 11)

USE FULL COVERAGE OF CAT. NO. M64/95C SEALANT UNDER EXTERIOR AND INTERIOR EDGE AND AT JAMB WALLS

WALL JAMB

SEPARATOR MEMBRANE BY OTHERS

FIG. 11

1" GAP EACH END

SEAL OVER MEMBRANE EDGE USING **CAT. NO. M64/95C** SEALANT PRIOR TO SETTING FRAME INTO OPENING
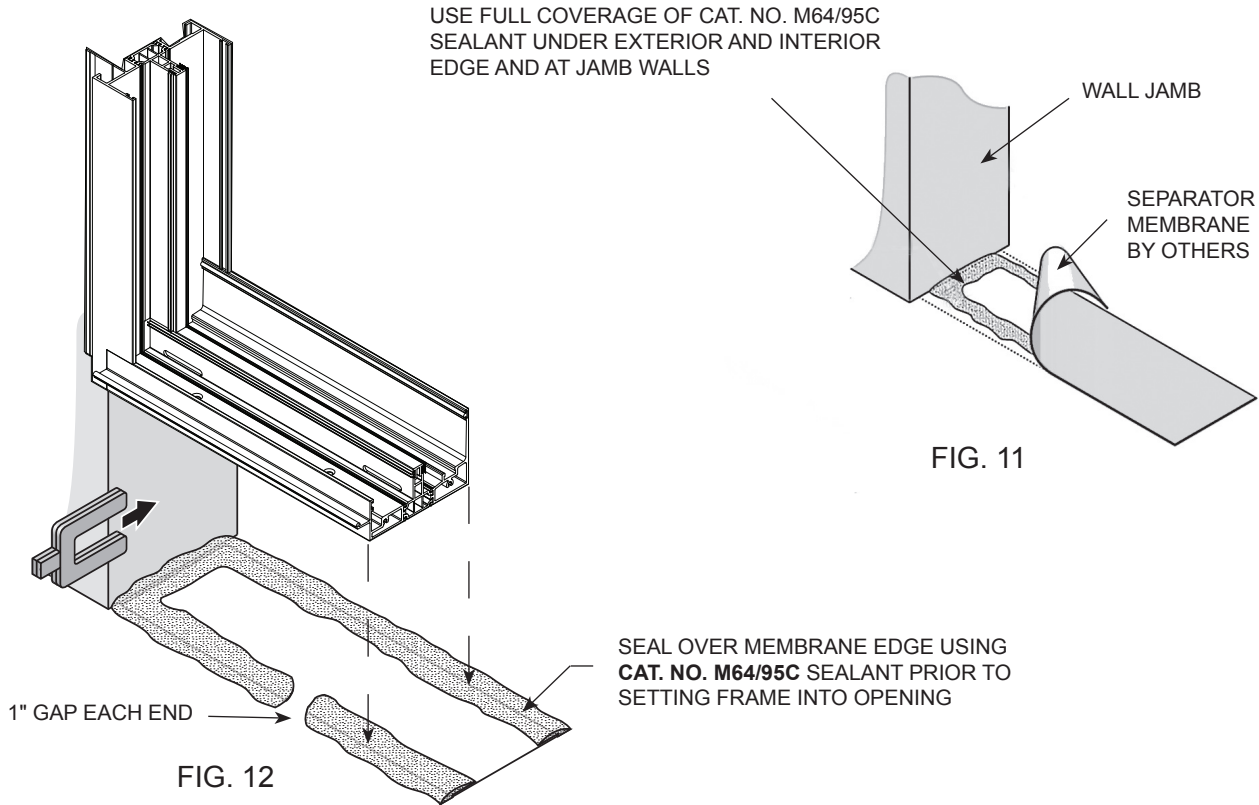
FIG. 12

2. Add a second bed of **Cat. No. M64 or Cat. No. 95C** sealant to the top of the membrane leaving a 1" (25 mm) gap approximately 6" (152 mm) from each end. (FIG. 12)

3. Place the assembled frame in the opening, plumb and true. Measure installed frame diagonally to ensure it is square. (FIG. 13)

4. Shim head and jambs as required. Secure the frame to the opening with fasteners supplied by others using the prefabbed holes in the head and jamb. Seal over all screw heads at sill using Cat. No. 33S sealant.

measure diagonally

measure diagonally

FIG. 13
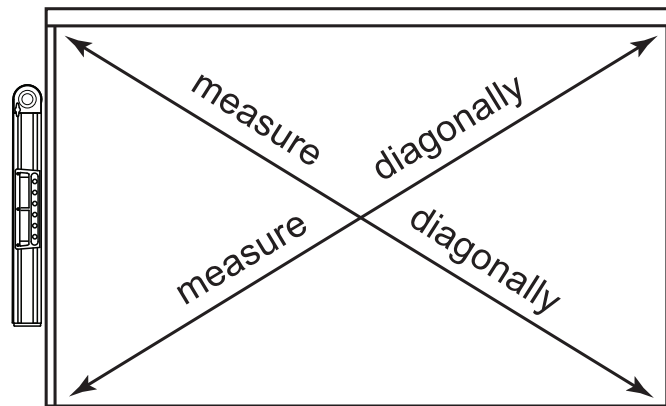
VENT PANEL INSTALLATION

1. Install the sliding vent panel from the exterior before the installation of the **fixed panel**.

2. With the rollers in their retracted position, lift and tilt the vent panel and insert it into the interior side of the head. (FIG. 14)
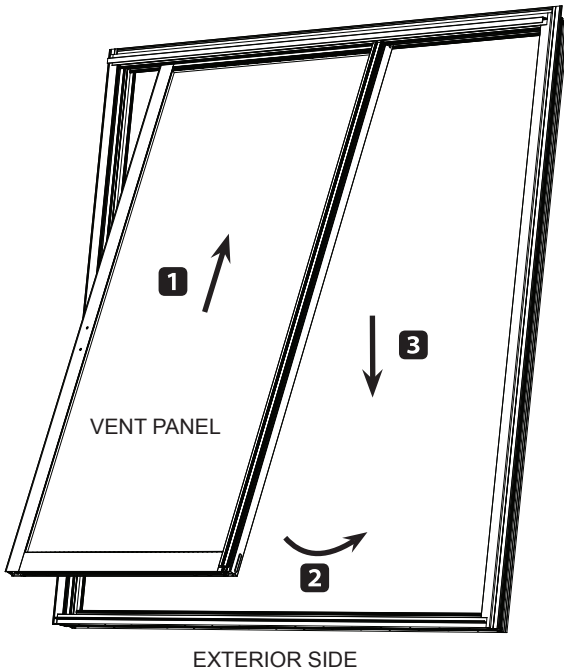
FIG. 14
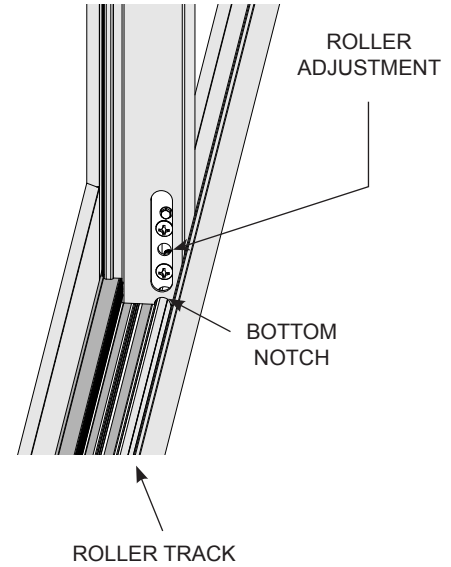
FIG. 15

3. Lift the panel and swing the bottom until it rests on the roller track while centering the bottom notch. (FIG. 15)

4. Adjust the bottom rollers until the vent panel is plumb with the frame and rolls smoothly.

5. Install the Round Patio Door Bumper. (FIG. 16)

6. Install the 3-1/2" Radius End Patio Door Bumper. (FIG. 17)
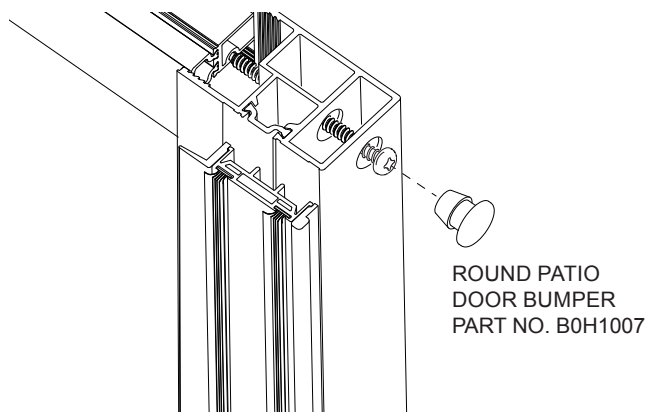
FIG. 16
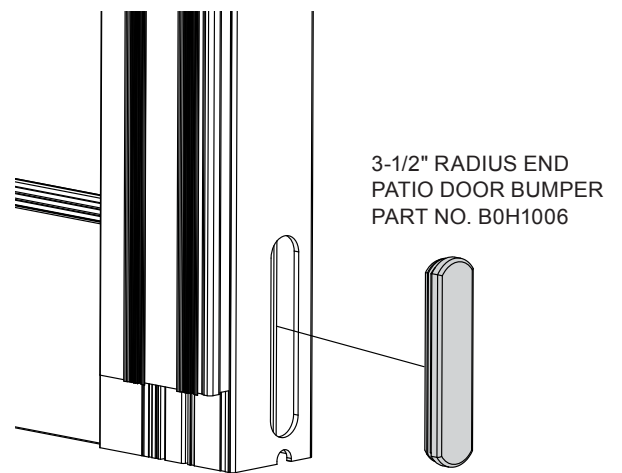
FIG. 17

FIXED PANEL INSTALLATION (Part 1)

1. Install the sill riser strip into the sill before the fixed panel. (FIG. 18)
2. Attach two L-shaped anchor clips to the fixed interlock. Insert and temporarily tape the fixed panel clips in place on the outside top and bottom of the fixed interlock. (FIG. 19)

SILL RISER
PART NO. VY005R

EXTERIOR SIDE

FIG. 18

FIXED PANEL CLIPS
PART NO. HS3FPCLIP

TAPE

FIXED INTERLOCK
STILE

FIXED PANEL

TAPE

FIXED PANEL CLIPS
PART NO. HS3FPCLIP
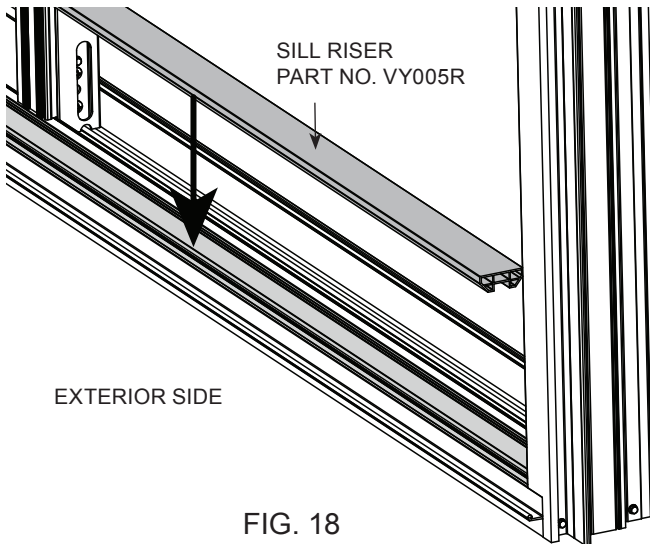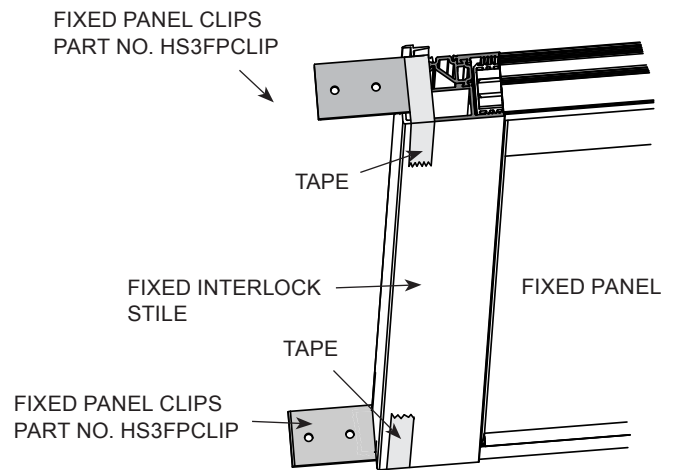
FIG. 19

3. From the exterior, tilt the fixed panel and insert into the top track. Swing bottom of panel in and set it in place on top of the sill riser. (FIG. 20)
4. Slide the fixed panel over and into the side jamb.
5. Fasten the top and bottom fixed panel clips to the fixed interlock stile of the fixed panel with Part No. ST12042 #12 x 3/4" Phillips Hex Washer HD screws and then to the head and sill frame members. (FIG. 21)
6. Remove tape from fixed panel clips. Apply **Cat. No. 33S** sealant over bottom clip screw heads. Seal all screw penetrations in the bottom track during assembly. (FIG. 22)

HEAD

FIXED PANEL CLIPS
TAPED IN PLACE

3

1

FIXED
PANEL

FIXED PANEL CLIPS
TAPED IN PLACE

2

FIG. 20

FIXED PANEL

(3) #12 x 3/4" PHIL
HEX WASHER HD SMS
PART NO. ST12042

FIXED PANEL CLIPS
PART NO. HS3FPCLIP

FIG. 21

HEAD AND SILL:
CAT. NO. 33S SEALANT
AT ALL SCREW
PENETRATIONS AND
OVER SCREW HEADS
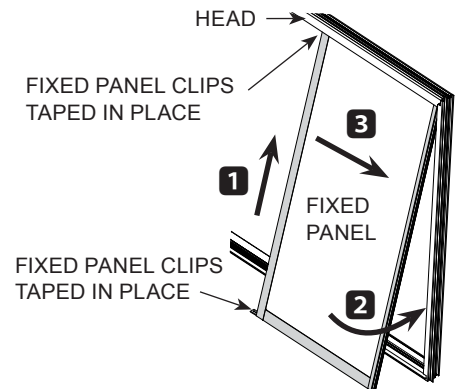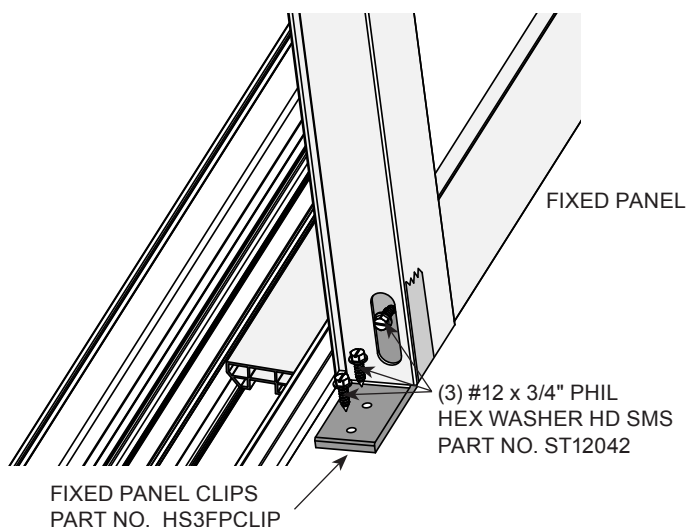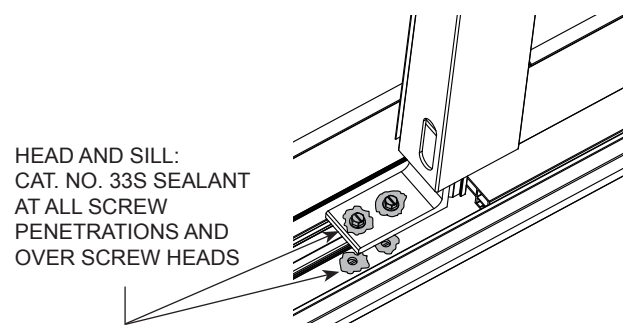
FIG. 22

FIXED PANEL INSTALLATION (Part 2)

1. Install the threshold cap into the sill between the fixed panel and the lock jamb. (FIG. 23)
2. To install the threshold cap, first insert Tab A into the center leg of the sill and snap Tab B into the exterior leg of the sill. (FIG. 24)
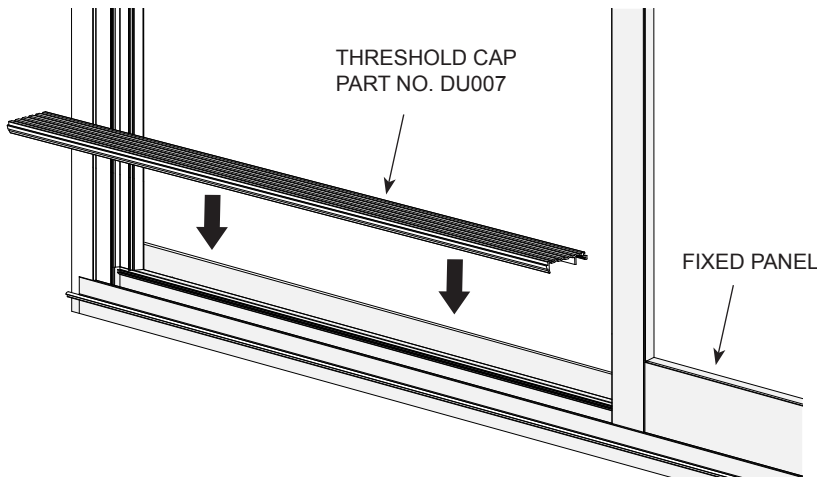
THRESHOLD CAP
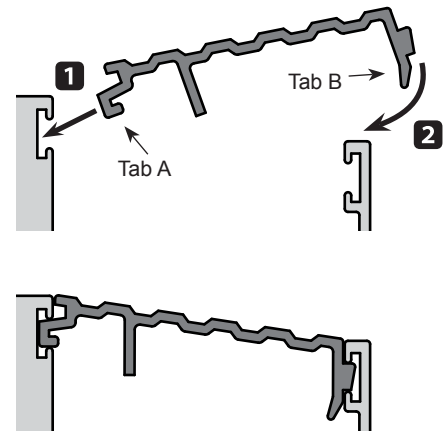PART NO. DU007

FIXED PANEL

Tab B

Tab A

FIG. 23

FIG. 24

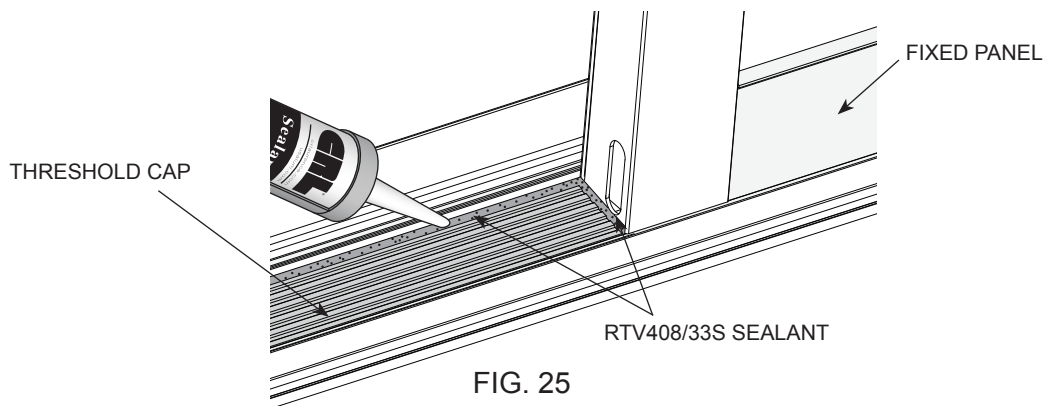3. Apply **Cat. No. RTV408** or **Cat. No. 33S** sealant around the perimeter of the threshold cap. (FIG. 25)

FIXED PANEL

THRESHOLD CAP

RTV408/33S SEALANT

FIG. 25

4. Seal the interior side of the fixed panel to the frame using **Cat. No. RTV408** or **Cat. No. 33S** sealant. Run a continuous bead of sealant at the sill, jamb, and head. (FIG. 26)

SEALANT

SEALANT

SEALANT
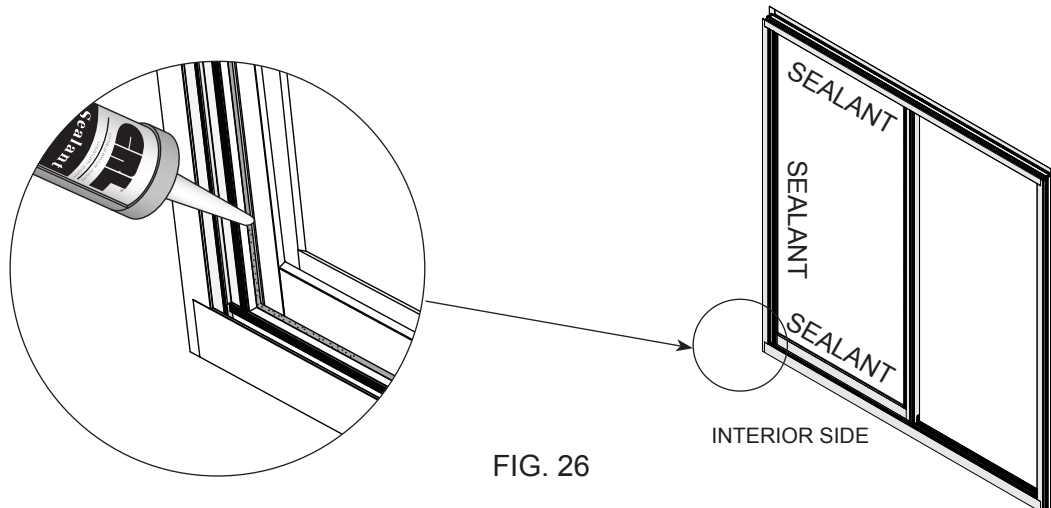
INTERIOR SIDE

FIG. 26

FIXED PANEL INSTALLATION (Part 3)

1. The super bug strip attached to the fixed interlock isolator snaps into the U-channel on the interior side of the fixed interlock stile. (FIG. 27)

SUPER BUG STRIP
PART NO. VY006R

FIXED INTERLOCK REGLET

FIXED INTERLOCK ISOLATOR
PART NO. VY003R

FIG. 27
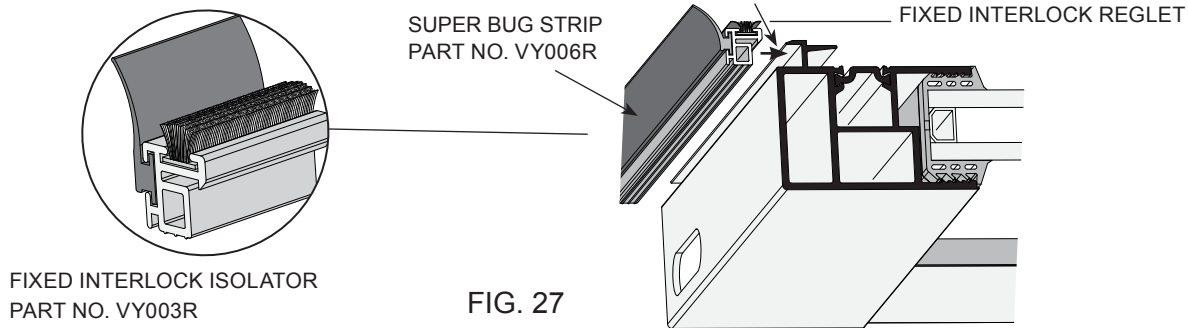
2. Measure the panel between the head and sill D.L.O. and cut the super bug strip 1/16" (2 mm) longer. (FIG. 28)

3. Apply **Cat. No. RTV408** sealant at the top and bottom of the fixed interlock isolator. (FIG. 29)

4. Beginning at the sill, push the super bug strip into the RTV408 sealant and snap into the fixed interlock. Continue working up the side of the panel to the head. (FIG. 30)

5. Trim the super bug strip to match the contour of the top and bottom rail. Ensure the super bug strip is embedded into the sealant at the head and sill. (FIG. 29)
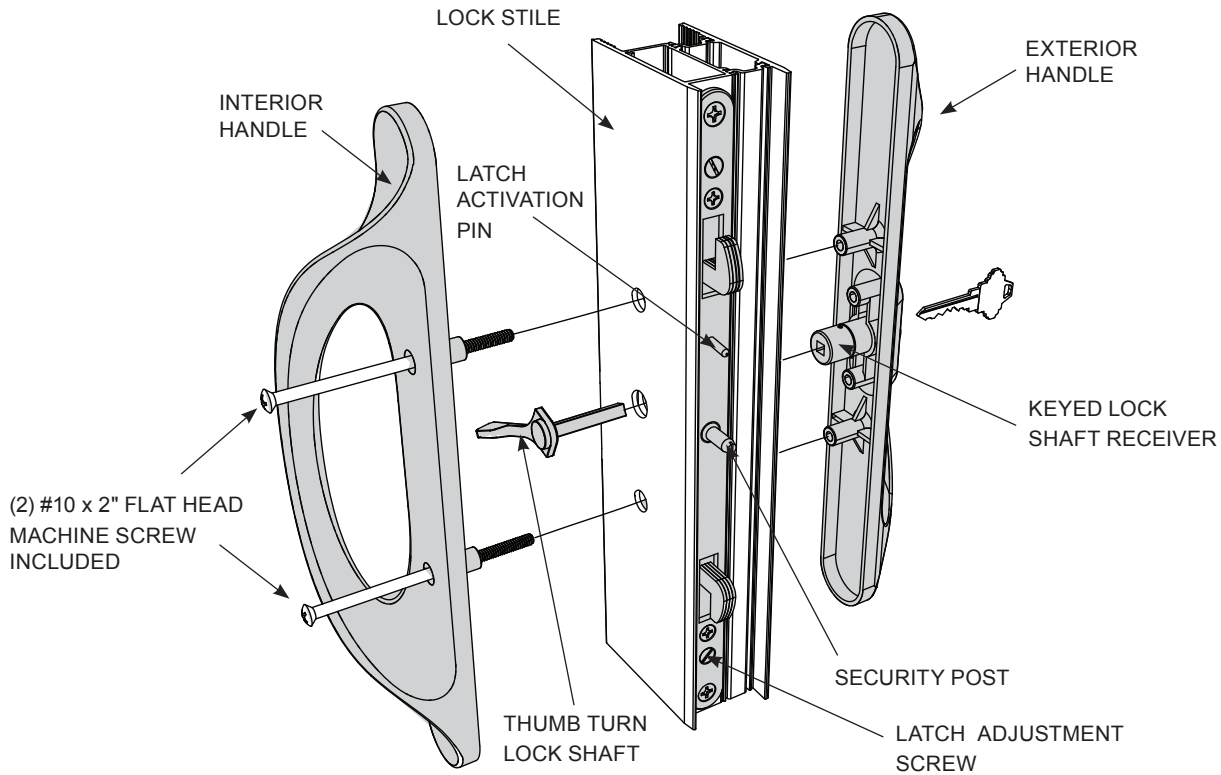
HEAD

+
1/16"
(1.6 mm)

SILL

FIXED INTERLOCK
ISOLATOR

FIG. 28

1

2

FIG. 29

HEAD

APPLY
**CAT. NO.
RTV408**
SILICONE
SEALANT

SILL

FIG. 30
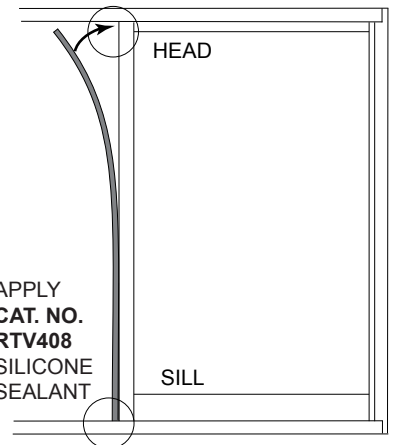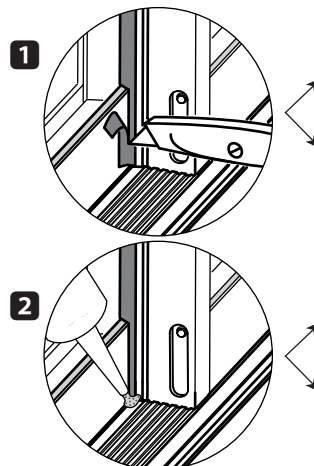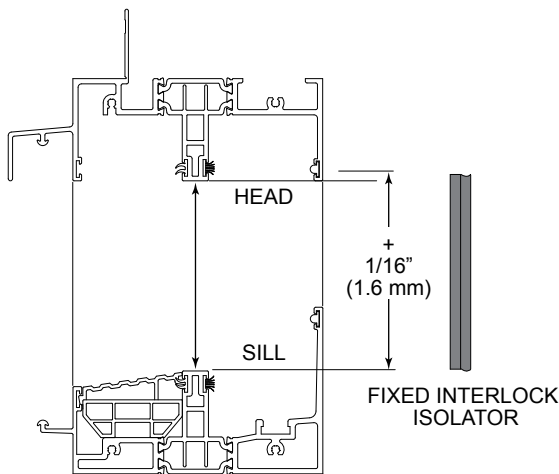
6. Insert both top and bottom Radius End Patio Door Bumpers into the fixed interlocking stile. (FIG. 31)

TOP

BOTTOM

3-1/2" RADIUS END
PATIO DOOR BUMPER
PART NO. B0H1006

2-1/4" RADIUS END
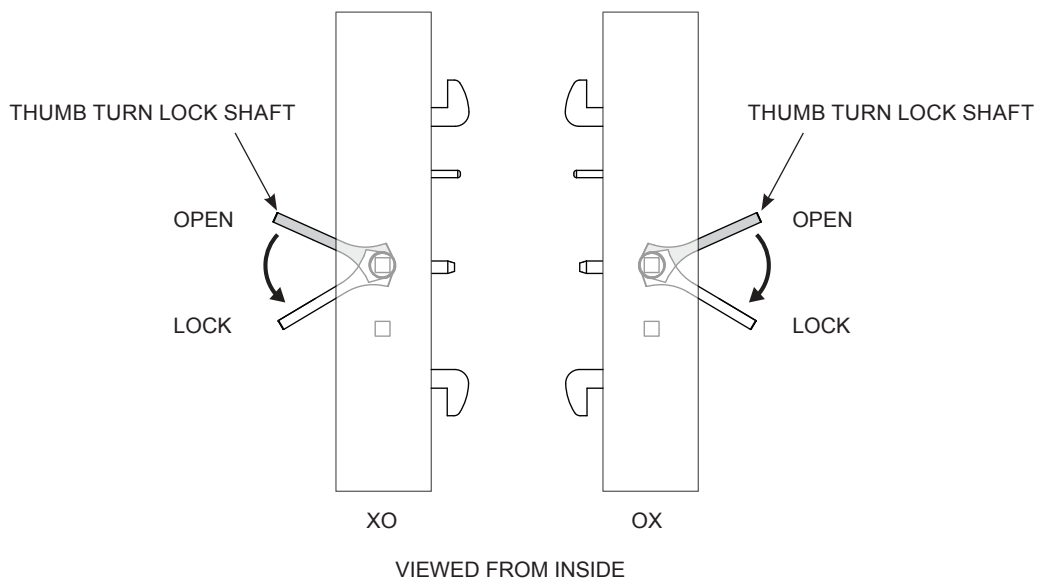PATIO DOOR BUMPER
PART NO. B0H1005

FIG. 31
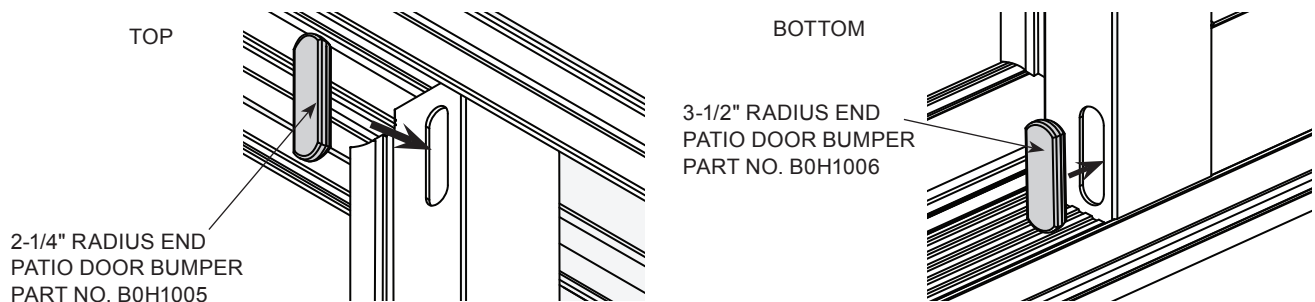
HANDLE AND LOCK INSTALLATION

1. Install the door handle as illustrated below. Starting with the exterior side, align the exterior handle to the holes, insert the thumb turn lock shaft through the door stile, and press into the keyed lock shaft receiver. Hold in place while attaching the interior handle. (FIG. 32)

LOCK STILE

INTERIOR HANDLE

LATCH ACTIVATION PIN

EXTERIOR HANDLE

KEYED LOCK SHAFT RECEIVER

(2) #10 x 2" FLAT HEAD MACHINE SCREW INCLUDED

THUMB TURN LOCK SHAFT

SECURITY POST

LATCH ADJUSTMENT SCREW

ACTIVE HARDWARE KIT PART NO. B0H1011

FIG. 32

THUMB TURN LOCK SHAFT

OPEN

LOCK

THUMB TURN LOCK SHAFT

OPEN

LOCK

XO

OX

VIEWED FROM INSIDE

LATCH AND STRIKE ADJUSTMENT

1. Install the strike with (4) Part. No. ST27442 #12 x 4" PHIL FLAT HD SMS 18/8SS.

1/8" (3.2 mm)
CLEARANCE IN
THE UNLOCKED
POSITION

1/8" (3.2 mm)
CLEARANCE IN
THE UNLOCKED
POSITION

(4) #12 x 4 PHIL FLAT HD SMS
STRIKE MOUNTING SCREWS
Part No. ST27442

ADJUST

STRIKE

LOCK JAMB
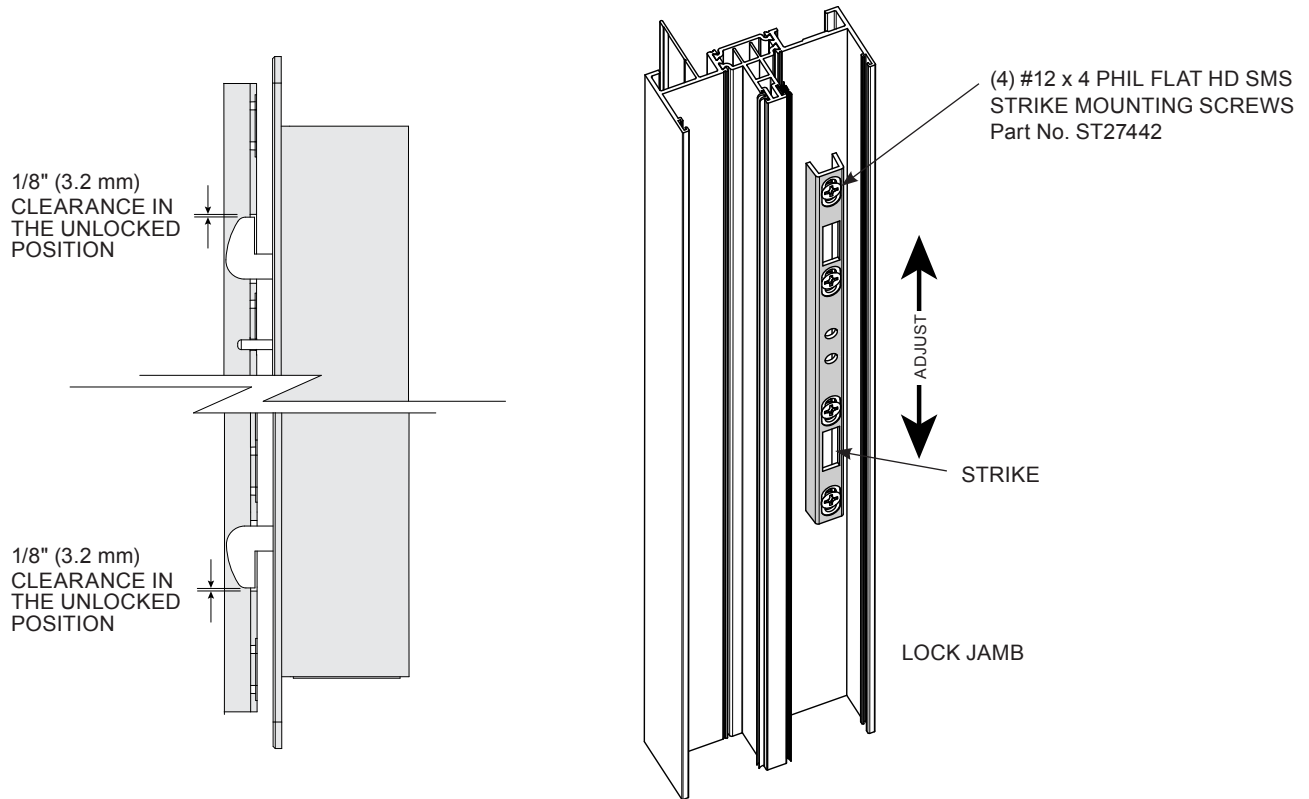
FIG. 33

2. Adjust the strike up to 1/4" (6 mm) vertically to compensate for any misalignment. Loosen the (4) flat head screws enough to allow you to tap the strike up or down. Tighten the screws securely when complete. (FIG. 33)

3. Use the latch adjusting screws to independently adjust the latching arms in or out. With the door closed and latched, slide the door back-and-forth. Adjust the latching arms to allow for 1/16" (2 mm) of travel. (FIG. 34)

ADJUST

LATCHING ARM

DOOR LOCK STILE

LATCH
ADJUSTMENT
SCREW
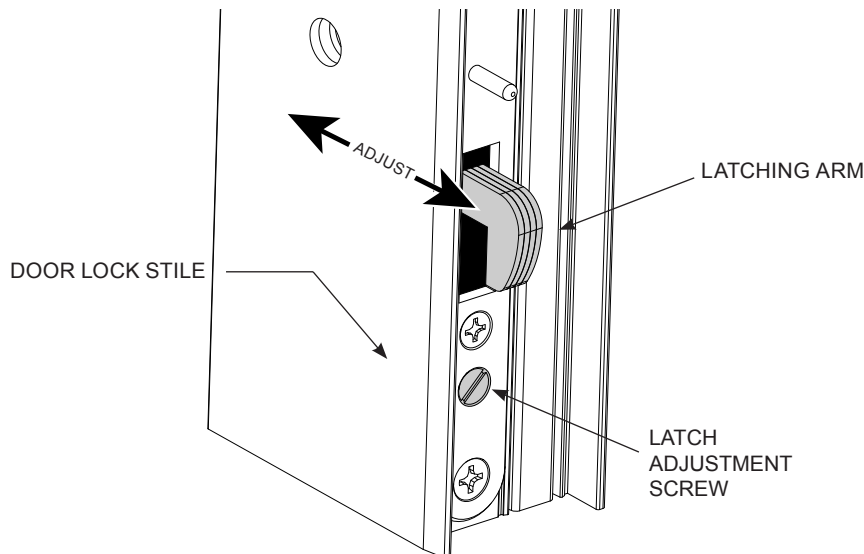
FIG. 34

SCREEN INSTALLATION

1. From the exterior, tilt the screen and insert into the top track. Rotate to vertical and set it in place. (FIG. 35)

2. Starting at the bottom, adjust screen rollers so the screen rolls freely and the frame is parallel with the jamb. (FIG. 36) Then repeat with the top rollers.

FIG. 35

ADJUSTING SCREW
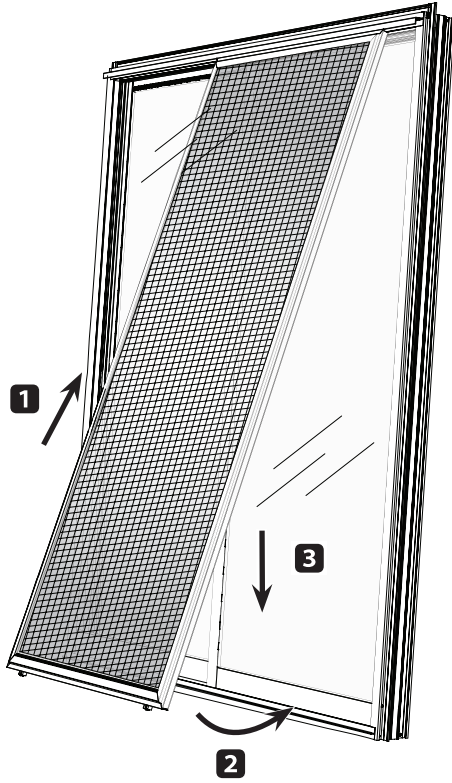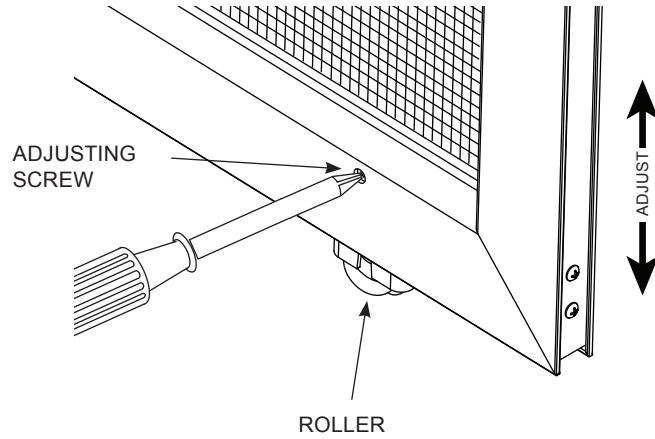
ADJUST

ROLLER

USE PHILLIPS SCREWDRIVER TO TURN ADJUSTMENT SCREW COUNTER-CLOCKWISE TO RETRACT ROLLER. TURN CLOCKWISE TO EXTEND ROLLER. REPEAT ON TOP ROLLERS.

FIG. 36

3. Position lock strike so screen catch moves freely. (FIG. 37)

4. Install with Part No. MS13042 (2) #8-32 x 1/2" Phil Hex Washer HD MS fasteners. (FIG. 38)

ADJUST

FIG. 37

LOCK STRIKE PART NO. SR302

(2) #8-32 x 1/2" PHIL HEX WASHER HD MS PART NO. MS13042
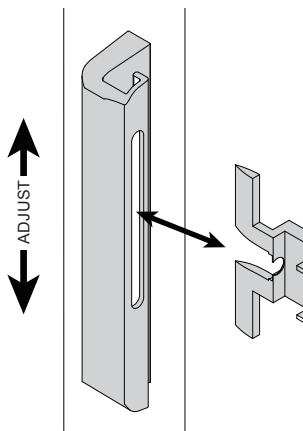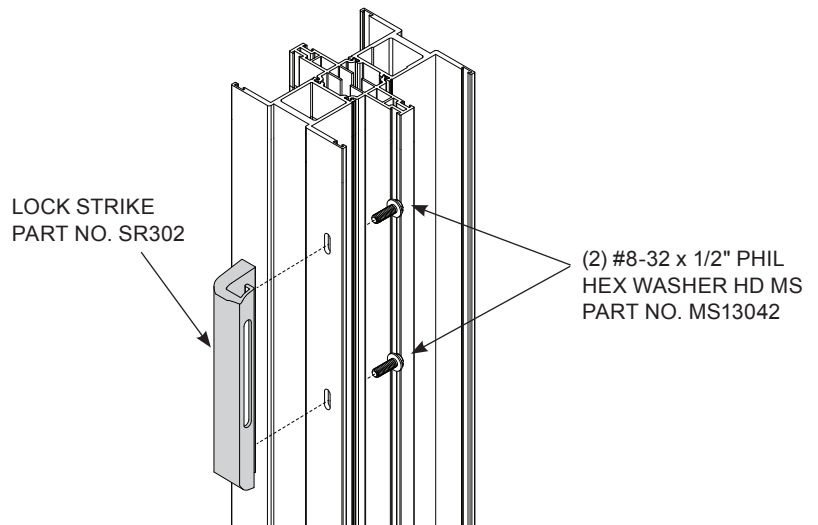
FIG. 38

BUMPER INSTALLATION

You can slide the fixed bumper over to ensure more clearance between the door and the fixed interlock.

1. Insert door bumper stop into the head channel touching the jamb. (FIG. 39)
2. Inspect for any corner sealant damage and repair.
3. Apply **Cat. No. M64** or **Cat. No. 95C** sealant to interior and exterior of the frame perimeter.

RUBBER BUMPER
PART NO. B0H1009

Vent Panel Stop
PART NO. HS3VP
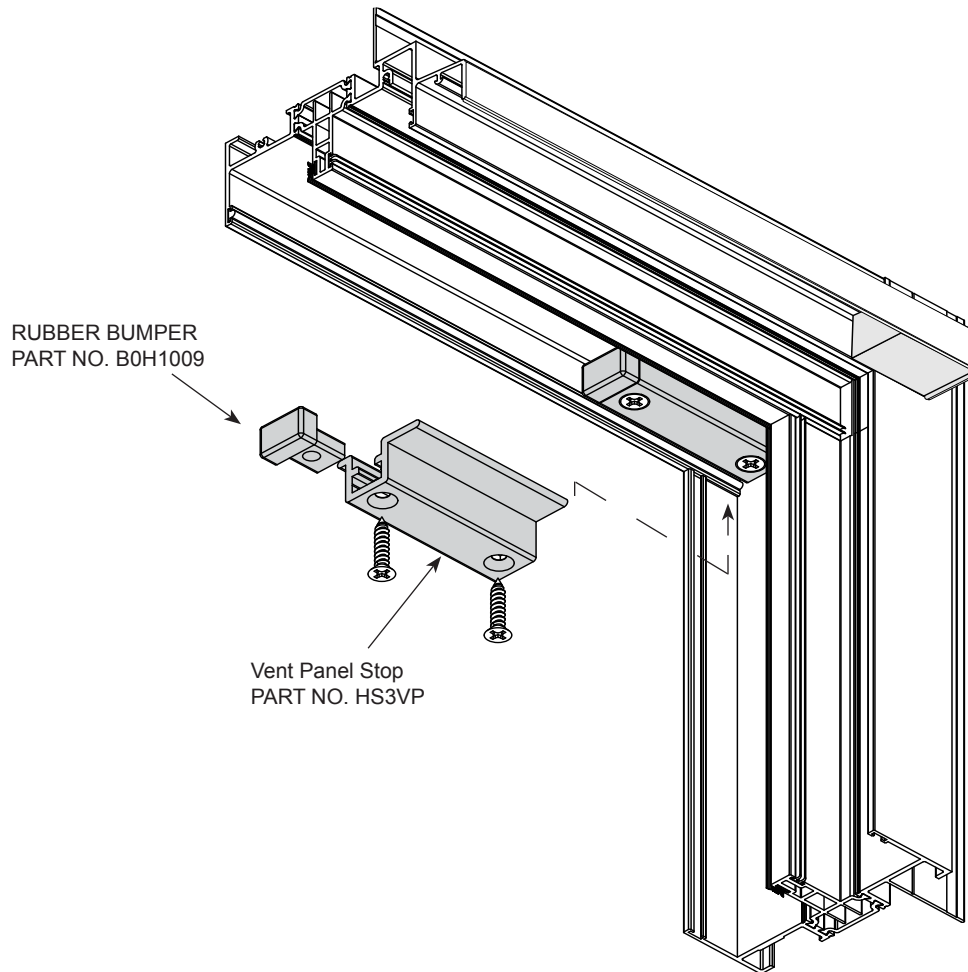
FIG. 39

OPTIONAL CONFIGURATIONS - OXXO INSTALLATION PART 1

1. Install both vents from the exterior side. (FIG. 40)
2. Adjust rollers on both doors until frames are level and flush, and roll freely. (FIG. 41)
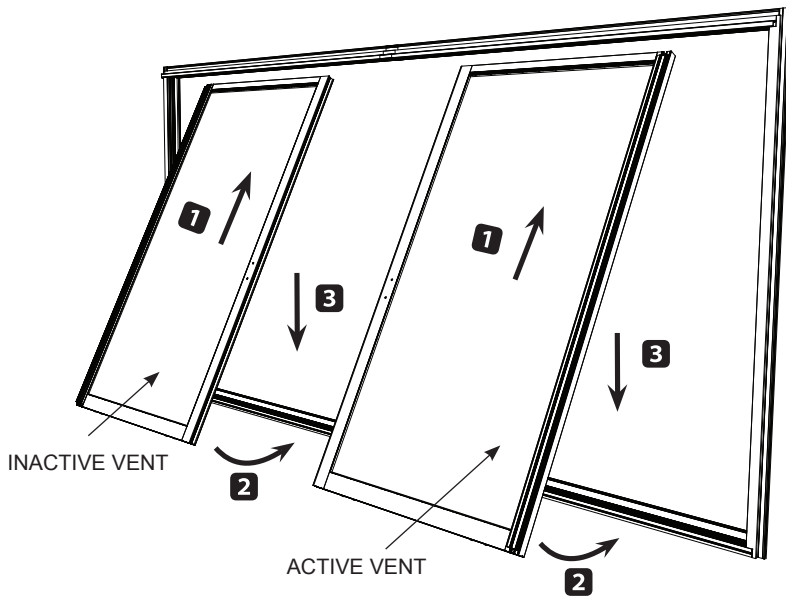
FIG. 40
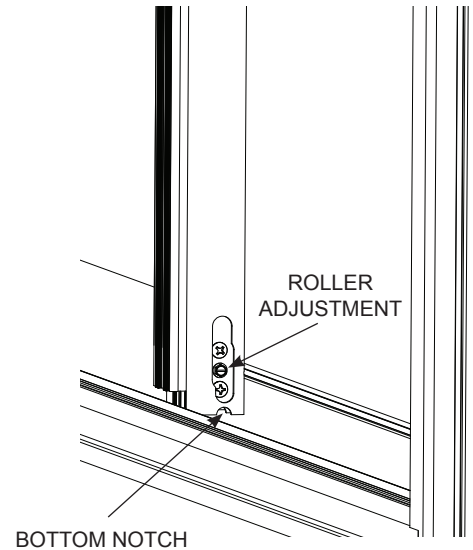
FIG. 41

3. Install DT025 OXXO Adapter (FIG. 54 on page 24) to the inactive vent panel. Dry fit the adapter on the panel first. Close both panels and check the spacing and alignment. (FIG. 42) Maintain an equal gap at the top and bottom. (FIG. 43)
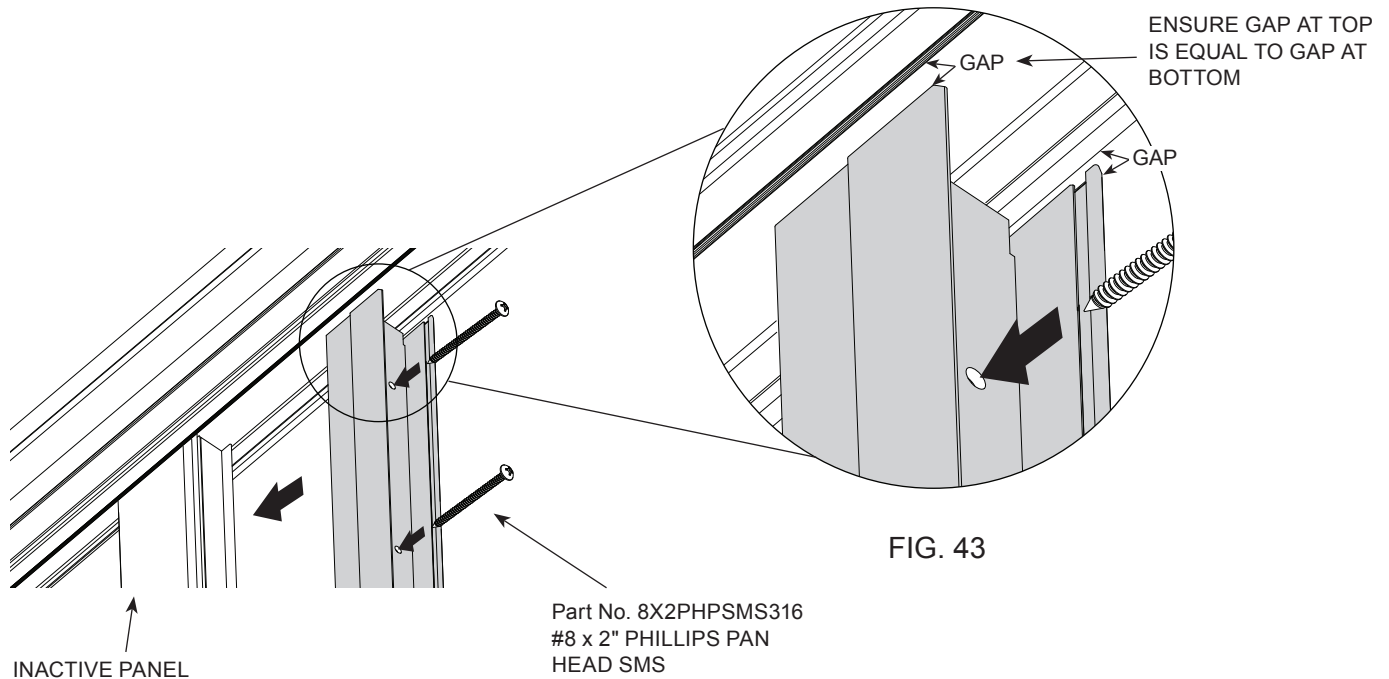

FIG. 43

Part No. 8X2PHPSMS316
#8 x 2" PHILLIPS PAN
HEAD SMS

FIG. 42

OPTIONAL CONFIGURATIONS - OXXO INSTALLATION PART 2

4. Install strike to the OXXO adapter on the inactive panel. (FIG. 44)

1/8" (3.2 mm) CLEARANCE IN THE UNLOCKED POSITION

1/8" (3.2 mm) CLEARANCE IN THE UNLOCKED POSITION

OXXO ADAPTER

(4) STRIKE MOUNTING SCREWS PART NO. ST27442
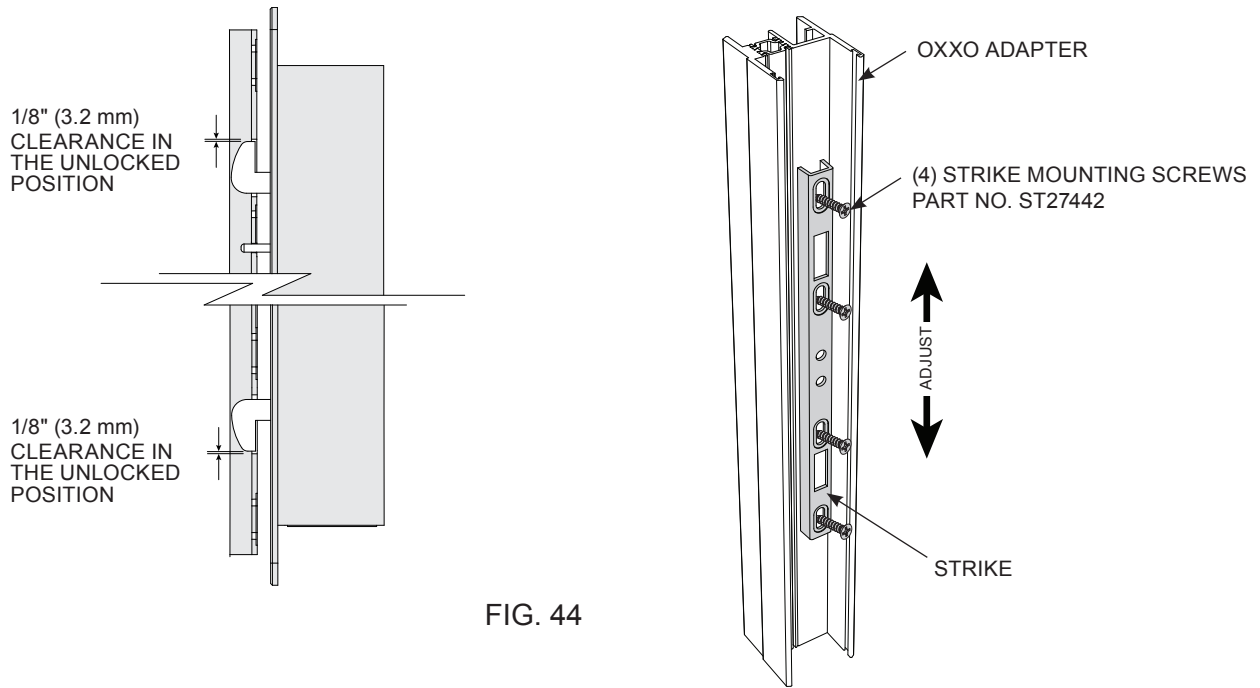
ADJUST

STRIKE

FIG. 44

5. Install both fixed panels from the exterior. (FIG. 45)

6. Refer to the Fixed Panel Installation instructions on pages 10-12. Seal as instructed. Continue with Handle and Lock Installation and Latch and Strike Adjustment on pages 13-14.

7. Install threshold cap and seal as shown in "FIG. 25" on page 13.

FIXED PANEL

FIXED PANEL
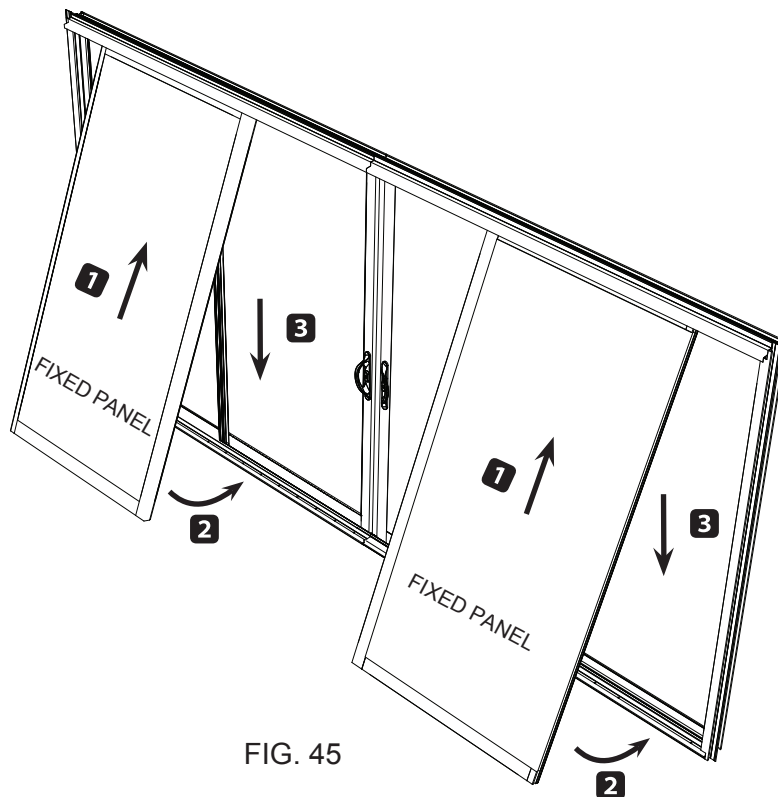
FIG. 45

OPTIONAL CONFIGURATIONS - OXXO SCREEN INSTALLATION

1. Install both screens from the exterior side. (FIG. 46)
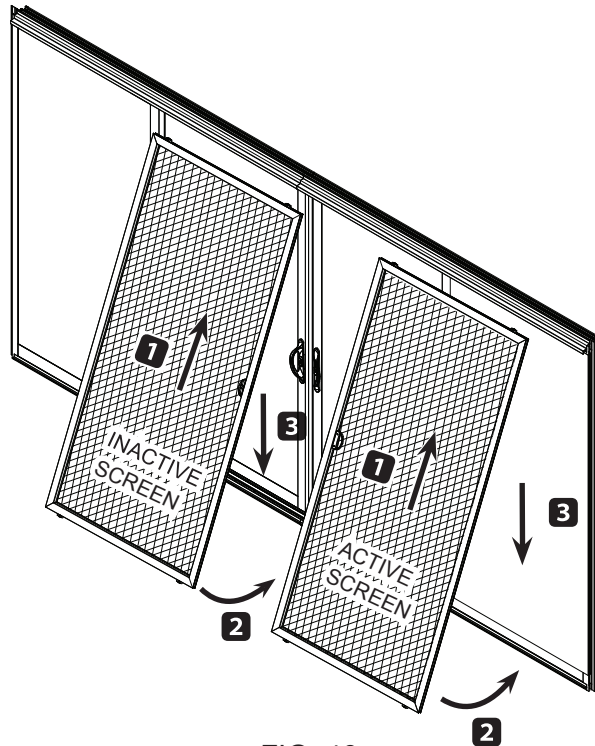
FIG. 46

2. Refer to the instructions to adjust top and bottom screen rollers. (FIG. 28 on page 14)
3. Install OXXO screen lock strike on the inactive panel. Position so screen catch moves freely. (FIG. 47)
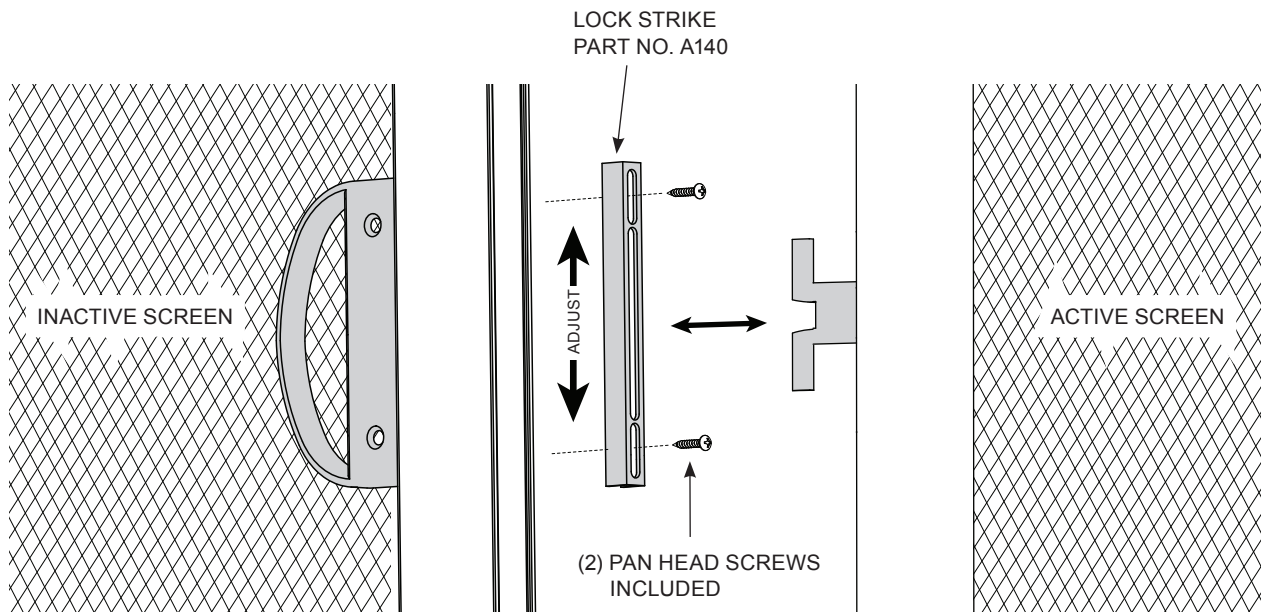

FIG. 47

4. Refer to instructions to install bumper. (FIG. 39 on page 18)

OPTIONAL CONFIGURATIONS - OXO INSTALLATION PART 1

1. Tip active vent into far interior track. Install from the exterior side.
2. Adjust rollers on door until frame is level and flush, and rolls freely.

PLACE IN FAR
INTERIOR TRACK

ACTIVE VENT PANEL

EXTERIOR SIDE
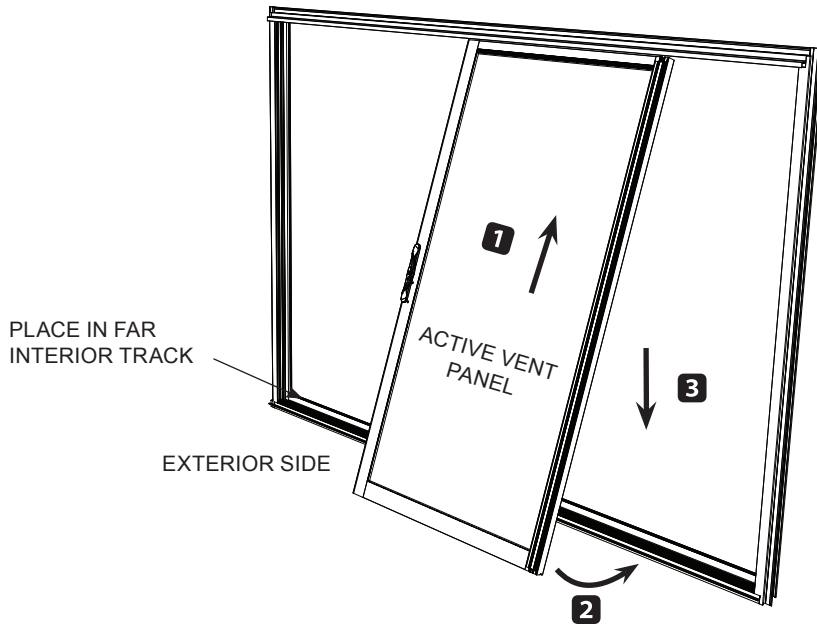
FIG. 48

3. Install the fixed panels on either side of the active vent. Slide the fixed panels to each end of the frame. Steps 1 and 2 in FIG. 49.
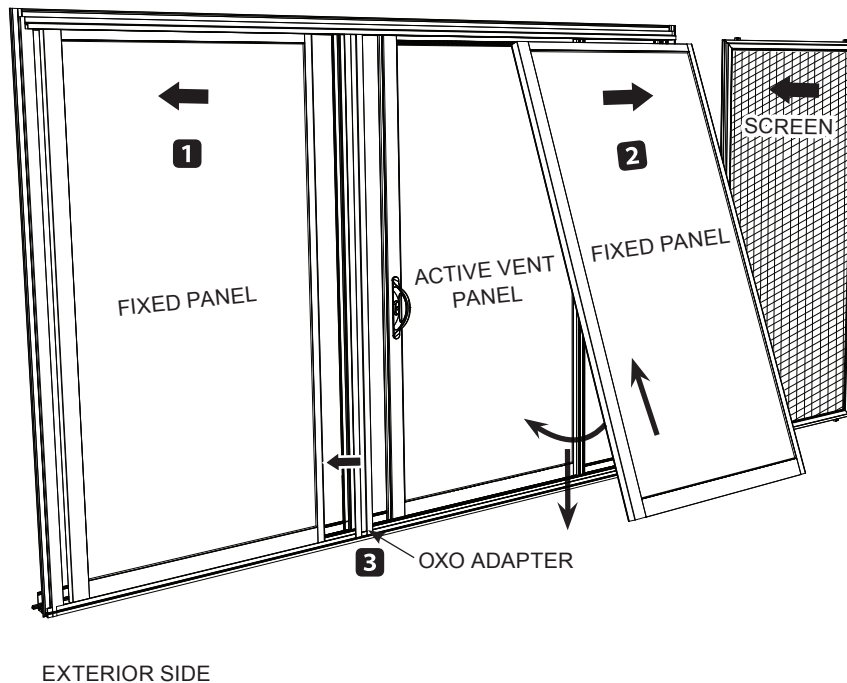
SCREEN

FIXED PANEL

ACTIVE VENT PANEL

FIXED PANEL

OXO ADAPTER

EXTERIOR SIDE

FIG. 49

OPTIONAL CONFIGURATIONS - OXO INSTALLATION PART 2

4. Place OXO adapter on sill and slide tight to fixed panel. See step 3 in FIG. 49 on page 22.

5. Install clips at top and bottom of OXO adapter. (FIG. 50). Refer to FIG. 19 on page 10 for clip attachment method.
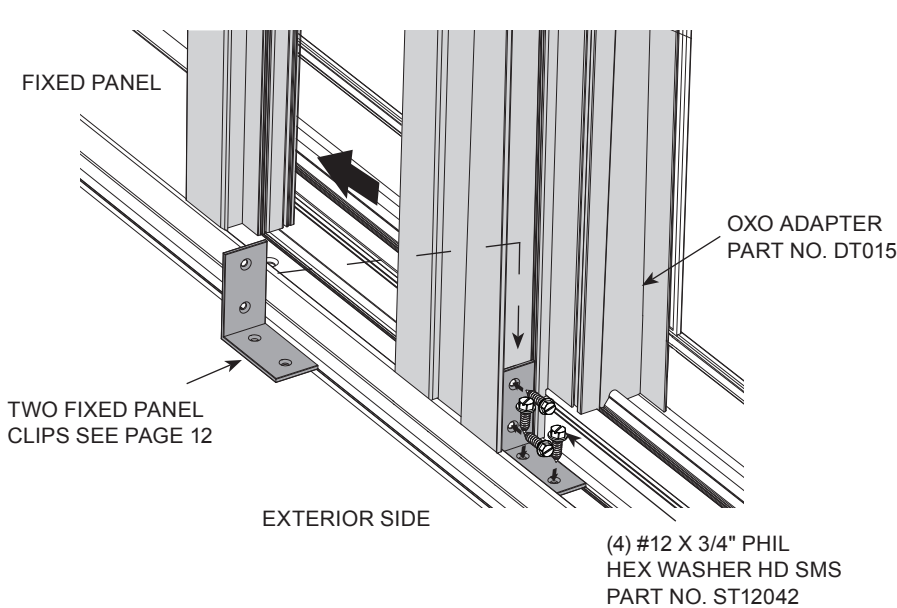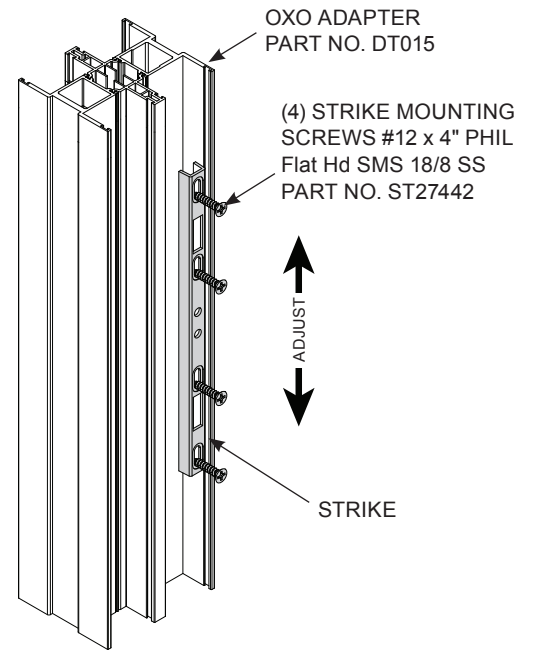
FIXED PANEL

OXO ADAPTER
PART NO. DT015

TWO FIXED PANEL
CLIPS SEE PAGE 12

EXTERIOR SIDE

(4) #12 X 3/4" PHIL
HEX WASHER HD SMS
PART NO. ST12042

OXO ADAPTER
PART NO. DT015

(4) STRIKE MOUNTING
SCREWS #12 x 4" PHIL
Flat Hd SMS 18/8 SS
PART NO. ST27442

ADJUST

STRIKE

FIG. 50   FIG. 51

6. Install strike to the OXO adapter. (FIG. 51)

7. Refer to the Fixed Panel Installation instructions on pages 10-12. Seal as instructed. Continue with Handle and Lock Installation and Latch and Strike Adjustment on pages 13-14.

8. Install screen door. Refer to FIG. 54 on page 24 for screen adapter.

9. Position lock strike so screen catch moves freely and secure with (2) Part No. MS13042 #8-32 x 1/2" Phil hex washer HD MS fasteners.

10. Install threshold cap and seal as shown in "FIG. 25" on page 13.

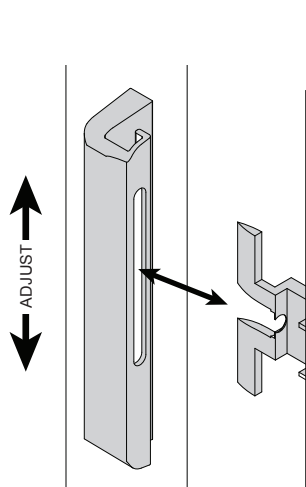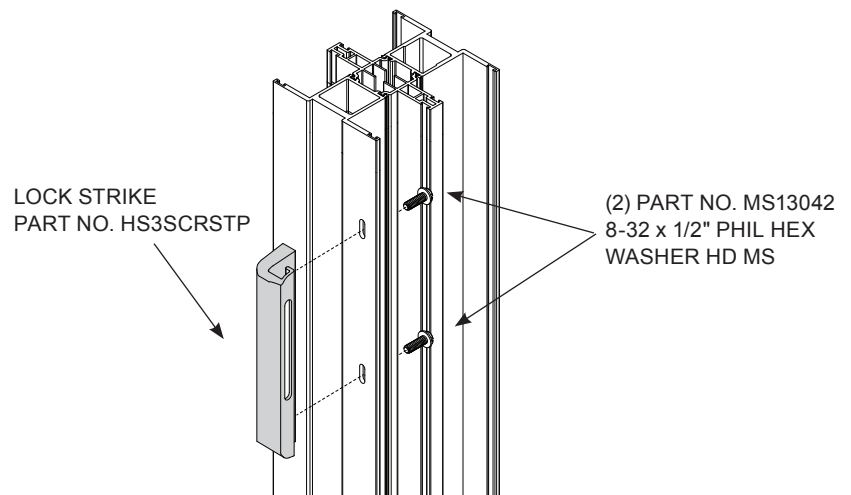11. Snap in the OXO filler Part No. 1S250 shown in "FIG. 55" on page 24.

ADJUST

LOCK STRIKE
PART NO. HS3SCRSTP

(2) PART NO. MS13042
8-32 x 1/2" PHIL HEX
WASHER HD MS

FIG. 52   FIG. 53

OXXO ADAPTERS

OXXO ADAPTER
PART NO. DT025

LEFT VENT PANEL

RIGHT VENT PANEL

OXXO ADAPTER
PART NO. VY001R

LEFT SCREEN DOOR

RIGHT SCREEN DOOR

FIG. 54

OXO ADAPTERS

OXO ADAPTER
PART NO. DT015

OXO FILLER
PART NO. 1S250

VENT PANEL
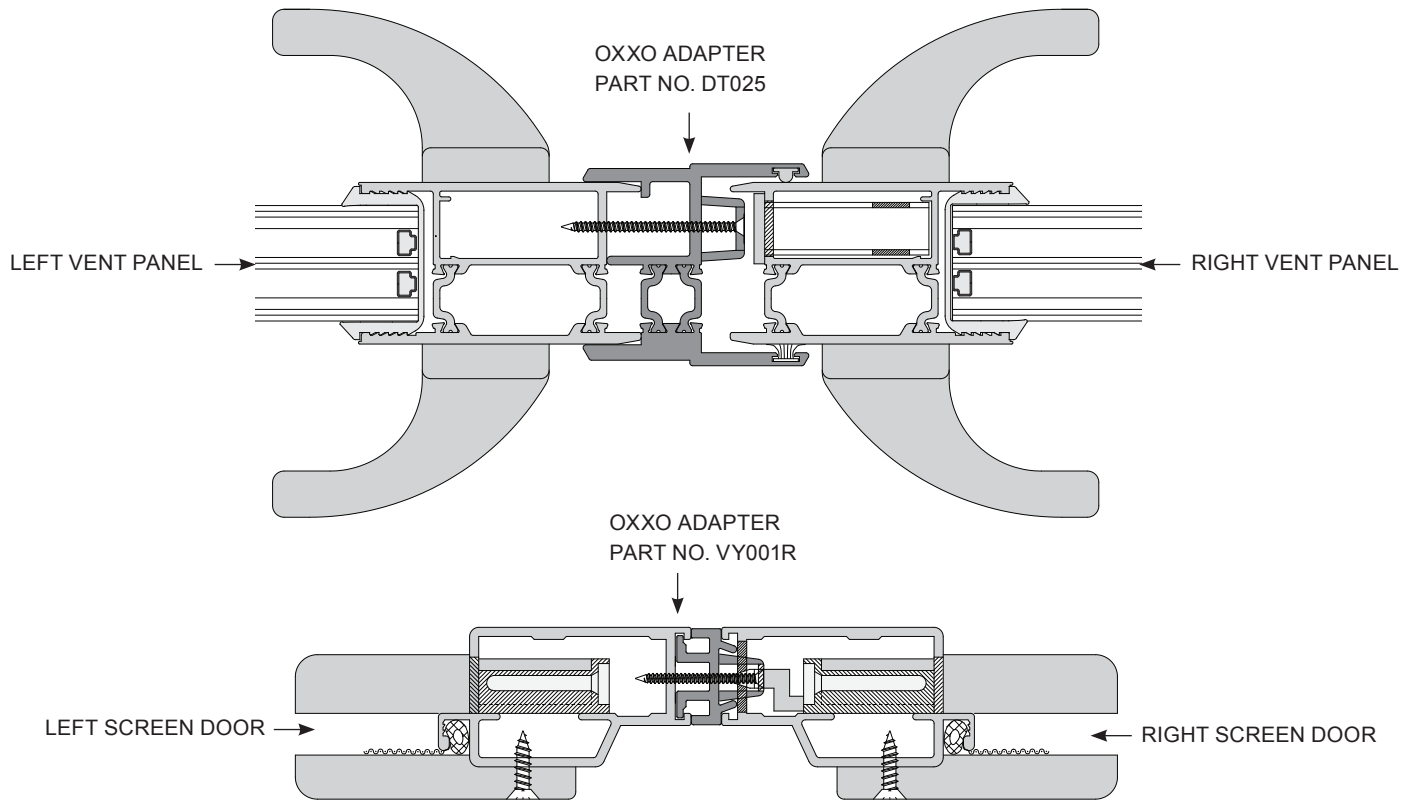
SEALANT SHOWN IN
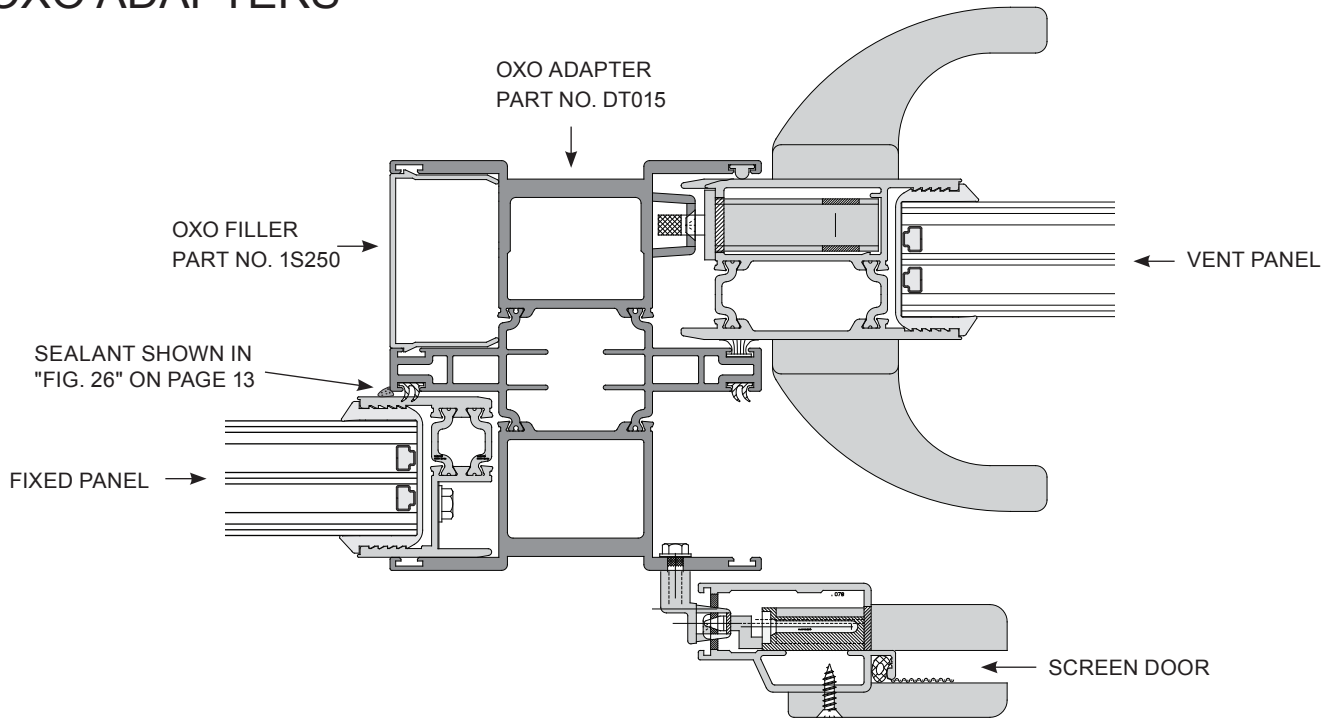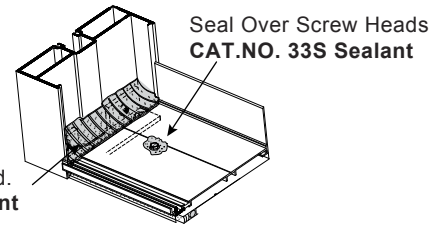"FIG. 26" ON PAGE 13

FIXED PANEL

SCREEN DOOR

FIG. 55

GUIDE TO SEALANTS

WATERPROOFING

- **33S ACETIC CURE SILICONE**

    NOTE: Not for use near insulated glass units with butyl sealant.

Seal Over Screw Heads
CAT.NO. 33S Sealant

Fill with Sealant to Create a Water Shed.
CAT.NO. 33S Sealant

Sill to Subsill, End Dams, Screw Heads and Threshold to Door Frame Sealing.
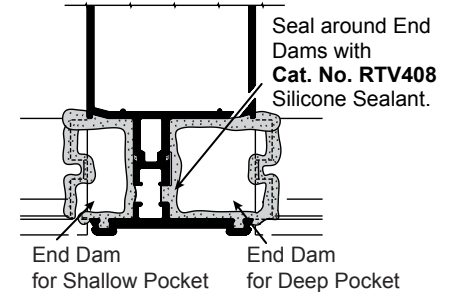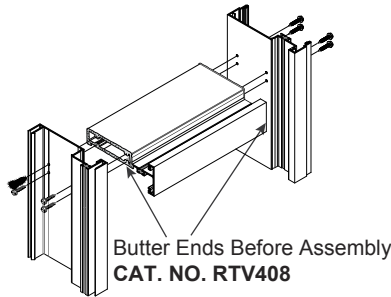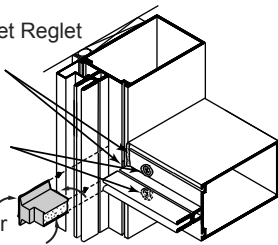
JOINT ADHESIVE

NOTE: I.G. butyl contact OK.

- **RTV408 NEUTRAL CURE SILICONE**

Seal Vertical Gasket Reglet
CAT. NO. RTV408

Seal Screw Heads
CAT. NO. RTV408

Seal Water Diverter
CAT. NO. RTV408

Butter Ends Before Assembly
CAT. NO. RTV408

Seal around End Dams with
Cat. No. RTV408 Silicone Sealant.

End Dam for Shallow Pocket

End Dam for Deep Pocket

Small Joints, End Joints and Buttered Surfaces, Water Diverters, End Dams and Reglet Fills.
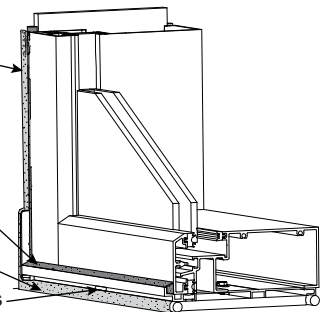
PERIMETER

- **95C NEUTRAL CURE SILICONE**
- **M64 (SMOOTH) MODIFIED POLYURETHANE**
- **M66 (TEXTURED) MODIFIED POLYURETHANE**

Exterior Perimeter Caulking
CAT. NO. 95C/M64/M66

Waterproofing Silicone Sealant
CAT. NO. 33S/RTV408

Exterior Perimeter Caulking
CAT. NO. 95C/M64/M66

Do Not Block Weepholes

Perimeter Seals, Expansion Joints, Sill and Threshold Beds, Concrete, Wood and Steel Openings.
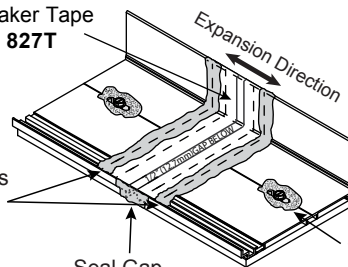
EXPANSION

- **95C NEUTRAL CURE SILICONE**

Bond Breaker Tape
CAT.NO. 827T

Expansion Direction

Seal Tape Edges
CAT. NO. 95C

Seal Gap
CAT.NO. 95C

Seal Screw Heads in Slotted (Expansion) Holes.
CAT.NO. 95C

Expansion Joints.

STRUCTURAL

- **ALL STRUCTURAL SEALANTS REQUIRE TESTING AND APPROVAL.**

Glass to Glass or Glass to Metal.

JOB SITE ESSENTIALS

Helpful Tools and Supplies for Installing CRL U.S. Aluminum Entrances, Storefronts, Windows, and Curtain Wall Systems

CRL 95C Silicone Building Sealant
CAT. NO. 95C

CRL RTV408 Neutral Cure Silicone
CAT. NO. RTV408

CRL33S Silicone Sealant
CAT. NO. 33S

CRL M64 Modified Smooth Polyurethane Construction Sealant
CAT. NO. M64GRY

CRL M66 Modified Grainy Polyurethane Construction Sealant
CAT. NO. M66

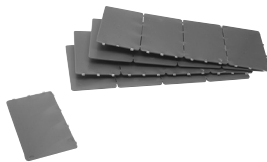**CRL 12:1 Ratio Strap Frame Caulking Gun**
CAT. NO. GA1203

CRL Complete Set of Seven All Stainless Steel Spatulas
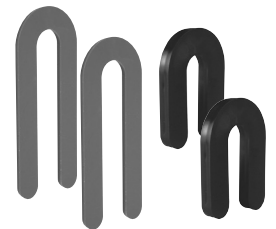**CAT. NO. AB958G**

CRL Open Cell Backer Rod
CAT. NO. B0CBR58C

CRL Backer Rod Roller Tool
CAT. NO. SBRR

CRL Plastic Bearing Shimstrips
CAT. NO. PBS06

CRL Soft-Face Power Hitter
CAT. NO. ST57532

CRL Plastic Horseshoe Shims

CRL Flat Head Phillips Sheet Metal Screws
CAT. NO. 6X1FHPSMS

CRL Pan Head Phillips Sheet Metal Screws
CAT. NO. 6X1PHPSMS

CRL Saint-Gobain/Norton V2100 Thermalbond® Structural Glazing Spacer Tape
CAT. NO. V2100

CRL Level Tool
CAT. NO. 406065
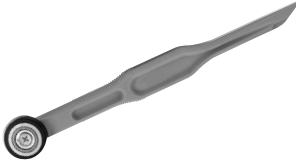
**CRL Bond
Breaker Tape
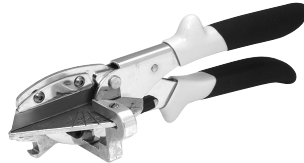CAT. NO. 827T2**

**CRL Glass Cutters
CAT. NO. TC17B**

**CRL Running Pliers
CAT. NO. PPG1**

**CRL Vacuum Cup
CAT. NO. S7950**

**CRL Gasket Roller
CAT. NO. VR10**

**CRL Gasket Cutter
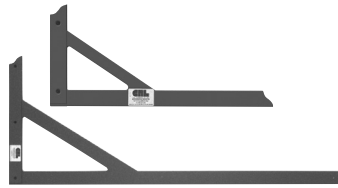CAT. NO. MC80N**

**CRL Glass Cleaner
CAT. NO. 1973**

**CRL Glass Wipes
CAT. NO. 1550**

**CRL Tape Measure
CAT. NO. 54125**

**CRL Glazier's Rule Holder
CAT. NO. RH670**

**CRL Phenolic L Square
CAT. NO. L48**

**CRL Spring Clamp
CAT. NO. JC3202HT**

**CRL Glass Marking Pencils
CAT. NO. GM44**

**CRL Belt Sander
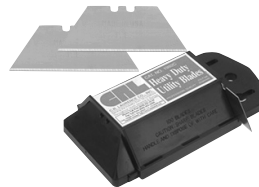CAT. NO. LD321**

**CRL Glass Grinding Belts
CAT. NO. CRL3X21120X**

**CRL Portable Ladder
CAT. NO. 6206**

**CRL Gloves
CAT. NO. KF1TL**

**CRL Utility Knife
CAT. NO. K82**

**CRL Utility Knife Blades
CAT. NO. 1992C**

**CRL Cordless Driver/Drill
CAT. NO. 6281DWPE**