

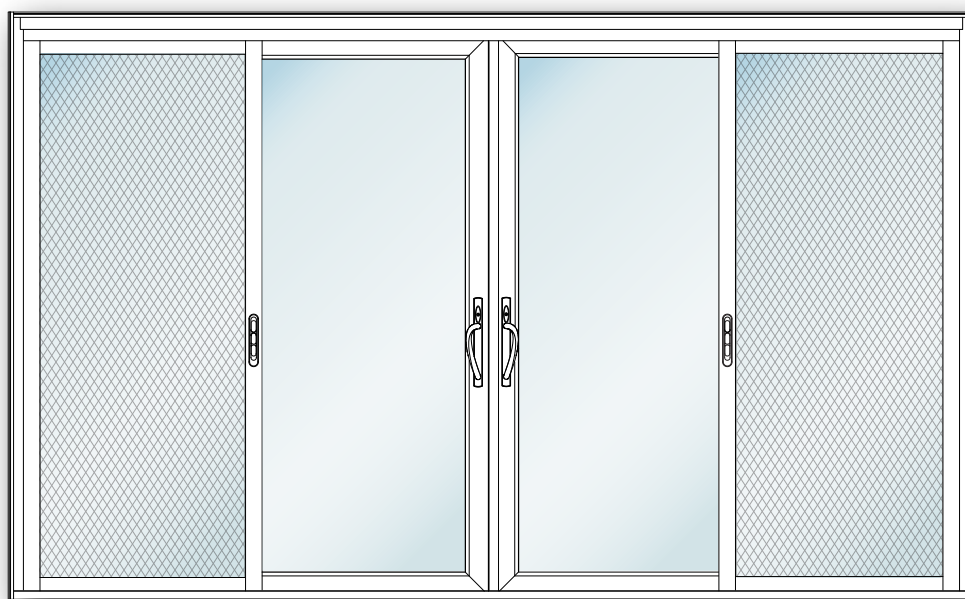


INSTALLATION INSTRUCTION MANUAL

4-LITE VINYL PATIO DOOR

CENTER ACTIVE, UNASSEMBLED

(ASPECT™ AND ENDURE™)



** Find QR Codes inside for additional information, helpful installation tips, and videos.*



Contact the local recycling waste management center for waste disposal in the area. Always check local waste requirements and carefully dispose of waste in accordance with Federal and other regulations.



Homes built before 1978 may contain lead paint. All replacement installations must comply with the U.S. EPA's Lead-Based Paint Renovation, Repair, and Painting Program (RRP Rule). Read more about the RRP Rule and lead-safe work practices, on the U.S. EPA's website at: www.epa.gov/lead



GETTING STARTED

MATERIALS YOU WILL NEED

- High Quality Silicone Caulking in accordance with ASTM C920, Class 25 & Caulking Gun
- 6" or 9" Adhesive Flashing Tape in accordance with ASTM D-779 (new construction application)
- AAMA approved Low-Expanding Window Insulation Foam in accordance with ASTM C1620
- Shims



REMEMBER: ALWAYS USE THE APPROPRIATE PERSONAL PROTECTIVE EQUIPMENT.



Read these instructions carefully before starting installation. Product warranty does not cover damages resulting from improper installation.



IMPORTANT NOTES BEFORE YOU BEGIN

- Inspect your package(s) for any visible damage to the product. In addition, double check your paperwork with label on product(s) and verify all information is a match. Open packaging to confirm style, color and that order was shipped complete. Double check size of new unit by comparing it for fit to opening.
- If damage or irregularities are found, please scan the product's packaging QR Code label using your phone's QR Code Scanner to access ProVia's After Sale Product Support to enter a request and post pictures/videos to the order, or you can call the Customer Support Team at 1-800-669-4711.
- If you have ordered optional items, verify that they are included in packaging contents. This includes checking for multiple packages (For example, 1 of 2 and 2 of 2).
- **Do not remove existing patio unit from opening until the frame is fully assembled, all needed components are at the site, and frame size matches the opening.**

ASPECT™ AND ENDURE™

4-LITE CENTER ACTIVE PATIO DOOR ASSEMBLY CONTENTS

NOTE: Please refer to chart below for the required assembly contents of an Aspect or Endure patio door. The patio frame will arrive from the factory unassembled with a few pre-assembled components to allow for proper handling of the patio unit as ordered.

Main Frame Assembly Profiles							
	(1) Jamb Assembly	(1) Jamb Assembly	(1) 4-Lite H-Mullion Pocket	(1) Sill Assembly w/ Sill Dust Cover	(1) Header Assembly		
Sash and Screen <i>(All viewed as OSLI)</i>							
	(1) PRIMARY Center Left Sash	(1) Center Right Sash w/ Factory Installed Wood Blocking	(2) Fixed End Sashes	(1) PRIMARY Left Screen	(1) Right Screen w/ Factory Installed Screen Mullion & Keeper		
Accessory Parts							
	(2) Interior Vinyl Jamb Cover (2" x 80")	(3) Interior Vinyl Groove Cover (Ships installed on frame)	(1) Handle Set Box	(1) Mortise Handle Set Keeper (Taped to Active Sash)			
Optional Installation Accessories <i>(Refer to the separate and included instruction document if applicable)</i>							
	5907 Brickmold w/ Nail Fin	5917 Brickmold	5927 Frame Adapter	5938 Stucco Flange	5940 Nail Fin (Partial Jamb)	5945 Nail Fin (Full Jamb)	5956 Nail Fin

ASPECT™ AND ENDURE™

4-LITE CENTER ASSEMBLY INSTALLATION PACK CONTENTS

NOTE: The individual installation packs are labeled and numbered. Please refer to the chart below for the appropriate pack contents and for the installation location.

4-Lite Center Op. Installation Pack S-DH-043S-CC



(1)

The individual installation packs are labeled, numbered and are all packed inside one main bag. Open up the main parts bag and refer to the appropriate pack contents for each installation location referenced below.

(2) Installation Pack #1 S-HS-344S-CC (Frame Assembly)



(10)

#8 x 2" Phillips Square Stainless Steel Screws,
Part #: S-HS-344-00

(1) Installation Pack #2 S-DH-020S-CC (Jambs & Header)



(16)

3/8" Hole Plugs (Color Matched), Part #: S-HG-698-CC



(16)

#8 x 3" Phillips Square Screws, Part #: S-HS-350-00



(1)

#2 Phillips Square Combo Bit, Part #: S-ST-347

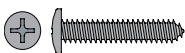
**NOTE, patio units ordered in WHITE, BEIGE, SANDSTONE, or BLACK will receive this pack as noted. ALL OTHER COLORS will receive this pack as part #: S-DH-020S-00. The color matched hole plugs will not be included but packaged separately and located in the hardware box.*

(2) Installation Pack #3 S-DH-023S-CC (Fixed Sashes)



(5)

Foam Plugs, Part #: S-HG-521-01



(4)

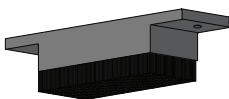
#8 x 1" Phillips Pan Head Screws, Part #: S-HS-345-00



(4)

Screw Caps, Part #: S-HG-311-CC

(3) Installation Pack #4 S-DH-024S (Header Block)



(1)

Head Weatherstrip Block, Part #: S-HG-524-13



(2)

#8 x 1 1/4" Phillips Pan Head Screws, Part #: S-HS-342-13

ASPECT™ AND ENDURE™

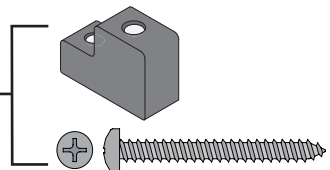
4-LITE CENTER ASSEMBLY INSTALLATION PACK CONTENTS

NOTE: The individual installation packs are labeled and numbered. Please refer to the chart below for the appropriate pack contents and for the installation location.

(2) Installation Pack #5

S-DH-025S

(Header Bumper)



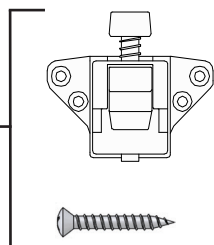
(1) Sash Stopper (Header Bumper), Part #: S-HG-532-13

(2) #8 x 1 1/4" Phillips Pan Head Screws, Part #: S-HS-342-13

(2) Installation Pack #6

S-DH-026S-CC

(Standard on Aspect,
Optional on Endure)



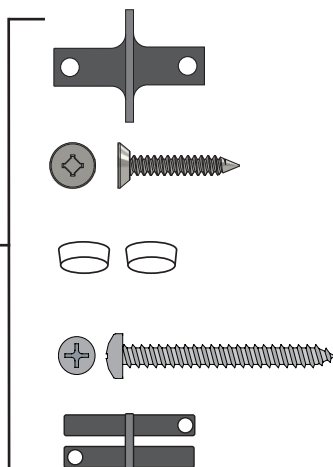
(1) Active Sash Secondary Lock (Foot Lock) (Color Matched),
Part #: S-HG-353-CC

(4) #8 x 3/4" Phillips Oval Head Screws (Color Matched),
Part #: S-HS-414-CC

(1) Installation Pack #9

S-DH-029S-CC

(Header Panel Stop &
4-Lite H-Mullion)



(1) Panel Stopper, Part #: S-HG-537-00

(2) #8 x 1" Phillips Square Combo Screws, Part #: S-HS-351-00

(2) Screw Cap Cover (Color Matched), Part #: S-HG-534-CC

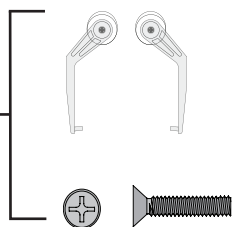
(4) #8 x 1 3/4" Phillips Pan Head Screws, Part #: S-HS-352-00

(1) Bottom Screen Stopper (Bracket with Slot) **IS NOT USED**

(2) Installation Pack #10

S-DH-010S

(Screen)



Screen Wheel Brackets,

(1) Part #: S-HG-366P-00 (Right Hand)

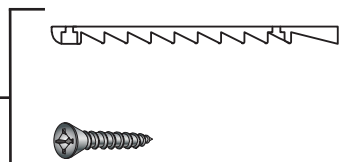
(1) Part #: S-HG-367P-00 (Left Hand)

(2) #6-32 x 7/8" Phillips Flat Head Screws, Part #: S-HS-360-00

(2) AccuVent™ Bolt Plate Kit

S-HG-573S-CC

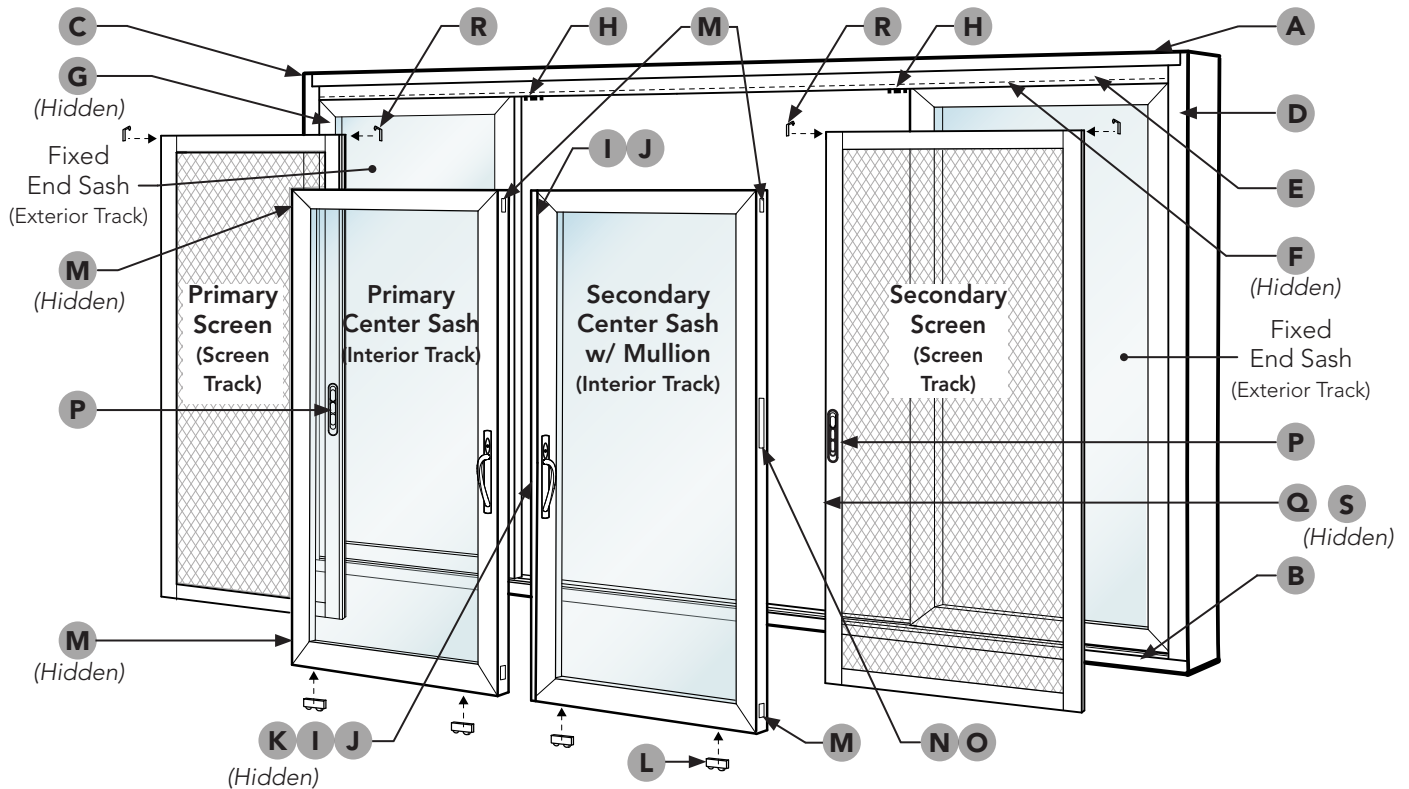
(Standard on Endure,
Optional on Aspect)



(1) AccuVent Bolt Plate (Color Matched), Part #: S-HG-573-CC

(2) #8 x 1 Combo Vinyl Hold (Color Matched),
Part #: S-HS-340-CC

PRODUCT PART # IDENTIFICATION AND REFERENCE



FRAME PARTS:

- A. Header - S-VE-7002-CC
- B. Sill - S-VE-7000-CC
- C. LH Jamb - S-VE-7004L-6-CC
- D. RH Jamb - S-VE-7004R-6-CC
- E. Outer Cover - S-AE-6206-CC (See page 20 for Detail)
- F. Common Screen Inner Track - S-AE-6207-32 (See page 20 for Detail)
- G. Interior Vinyl Jamb Covers (Each side) - S-VE-0714-CC
- H. AccuVent™ Bolt Plate (Each side) - S-HG-573S-CC (See page 19 for Detail) (*See note this page)

SCREEN PARTS:

- P. Patio Screen Handle LH - S-DH-071, Patio Screen Handle RH - S-DH-068
- Q. Screen Mullion - S-VE-0715-CC (Factory installed to Right screen)
- R. RH Wheel Bracket Assembly - S-HG-366P-00, LH Wheel Bracket Assembly - S-HG-367P-00 (See page 20 for Detail) (**See note this page)
- S. Common Screen Keeper - S-DH-069 (Factory installed)

SASH PARTS - (2) Fixed End, (2) Center Active:

- I. 4 LT. Mullion - S-VE-7005-CC
- J. 4 LT. Wood Mullion Block - S-HG-543-00 (Factory installed in Center Right Sash) (See page 14 for Detail)
- K. Multi-point Lock/Keeper - S-DH-072 (See page 15 for Detail)
- L. Tandem Wheel Patio Door - S-HG-355N-00
- M. Sliding Cap - S-HG-530-CC
- N. AccuVent Latch Trim Plate - S-HG-570-CC (See page 19 for Detail) (*See note this page)
- O. AccuVent Latch - S-HG-571-00 (See page 19 for Detail) (*See note this page)

NOTES:

* For re-order of all AccuVent™ parts, please order the AccuVent Latch Repair Kit, S-HG-571S-CC.

** For re-order of Screen Wheel Bracket Assembly, please order Pack #10, S-DH-010S.

***For assistance on all re-orders, please contact your Dealer or our Customer Support Team at 1-800-669-4711.



IMPORTANT INFORMATION

ProVia® understands there are various methods and conditions affecting the installation of a patio unit. We feel the most critical steps to follow are securing and shimming as instructed in this document.

FIELD MULLED PATIO UNIT:

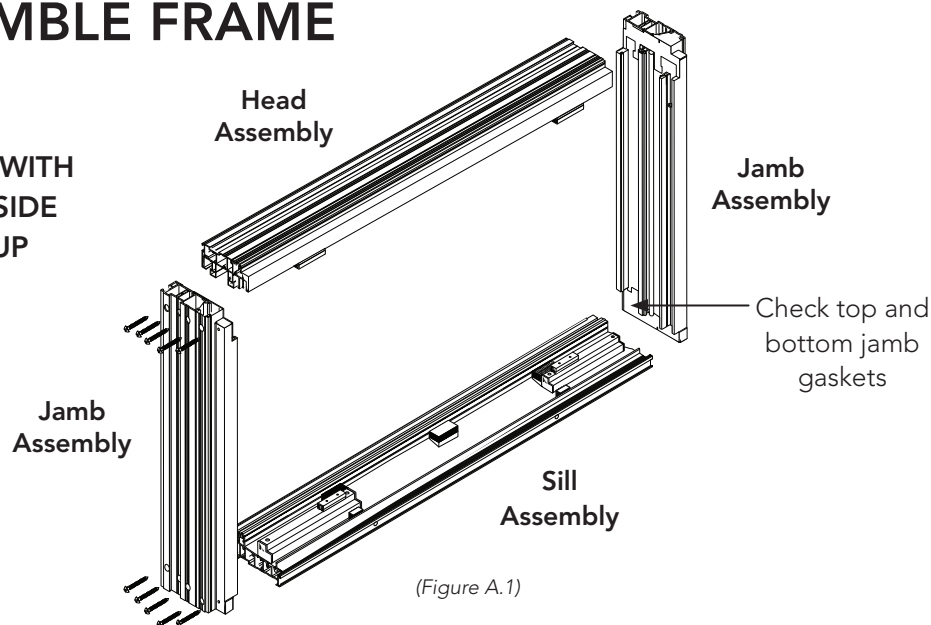
Refer to Section S, Field Mulling, page 23 - 24. Units must be mulled together before setting into the opening. For units requiring heavy reinforcement, refer to included instruction.

INSTALLATION ACCESSORY:

If the patio unit is ordered with an installation accessory, refer to the included document, 'Installation Instruction Vinyl Patio Door Installation Accessories and New Construction Flashing'. The QR code for this instruction can also be found at the end of this instruction document. Nail fin or installation accessory must be installed on patio unit before installing into the opening.

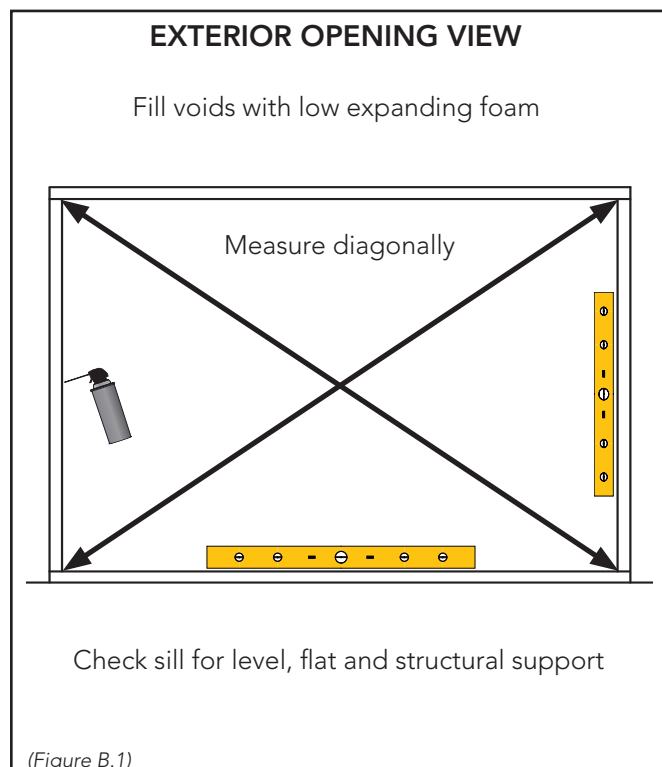
A. ASSEMBLE FRAME

***ASSEMBLE WITH
EXTERIOR SIDE
FACING UP**

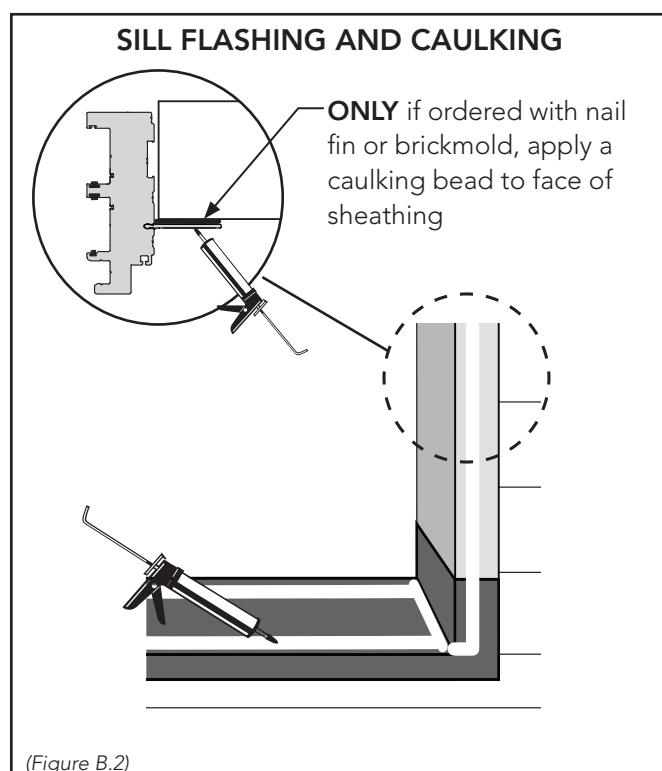


- 1 Unpack and inspect all new patio door assembly components for any material damages. Check glass, screen, and all operational hardware.
- 2 Check to be sure each top and bottom factory mounted jamb-side gasket is in place. (Figure A.1)
- 3 Carefully lay (4) main frame assembly pieces on a level and well supported area with the exterior side up. Be sure the interior side is fully protected from damage. Align each jamb side with header and sill. Check to be sure the jamb side screen bumpers are located at top and facing to the exterior.
- 4 Secure each frame jamb to the frame header and sill using (5) #8 x 2" Phillips head screws in top and bottom locations (Pack #1). Make sure top and bottom factory mounted jamb gaskets are well compressed. (Figure A.1)
- 5 If unit was ordered with a sidelite, transom, or optional installation accessory, install at this time.

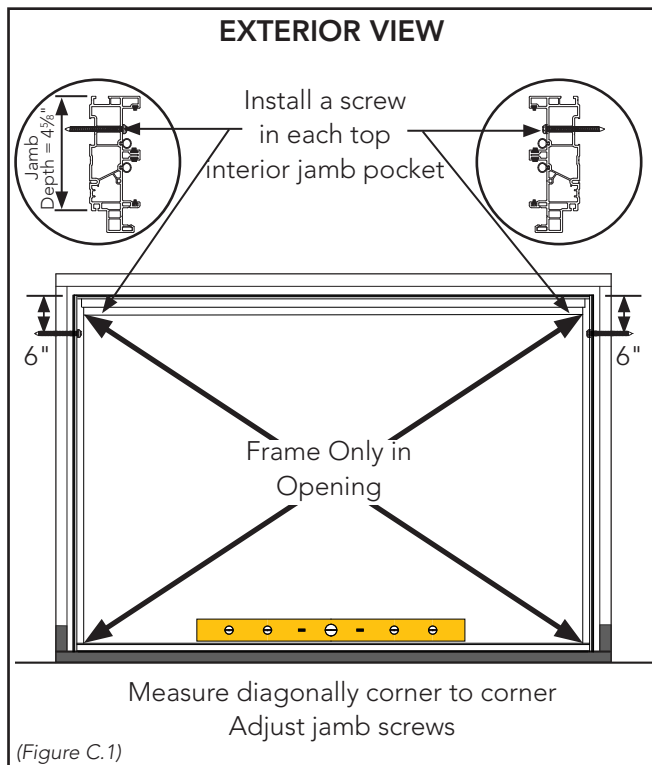
B. PREPARATION



- 1 Clean opening of dirt, debris, and obstructions.
- 2 Fill all voids with AAMA approved low-expanding window insulation foam that complies with ASTM C1620. (Figure B.1)
- 3 Check for level and flat sill. Verify the structural integrity of the opening to ensure a proper installation. If sill is not straight and level, place wood shims between sub-floor and sill to correct minor leveling adjustments. (Figure B.1)
- 4 Check opening for square. Measure diagonally from corner to corner each side to determine. (Figure B.1)
- 5 Verify opening width and height. Opening should be large enough to accommodate patio door with shims and insulation. *Recommended opening is 1/4" - 1/2" greater per side (or 1/2" - 1" greater in total width) and 1/4" - 1/2" greater in total height.*
- 6 Apply flashing to sill opening in accordance with local building codes and best practices. (Figure B.2)
- 7 Replace drip cap at the top of opening if necessary.
- 8 Apply (2) generous beads of premium caulking compound in a STRAIGHT LINE, on top of flashing and along entire length of rough opening sill. Place first bead of caulking to the exterior leading edge of sill. Place second bead towards interior (to bed flat surface of threshold). Apply caulking in each corner of sill as shown. (Figure B.2)
- 9 If nail fin or brickmold option is used, apply a bead of caulking to each vertical and header face of exterior sheathing to seal. To complete seal, apply bead of caulk from sill to exterior sheathing, as shown. (Figure B.2)



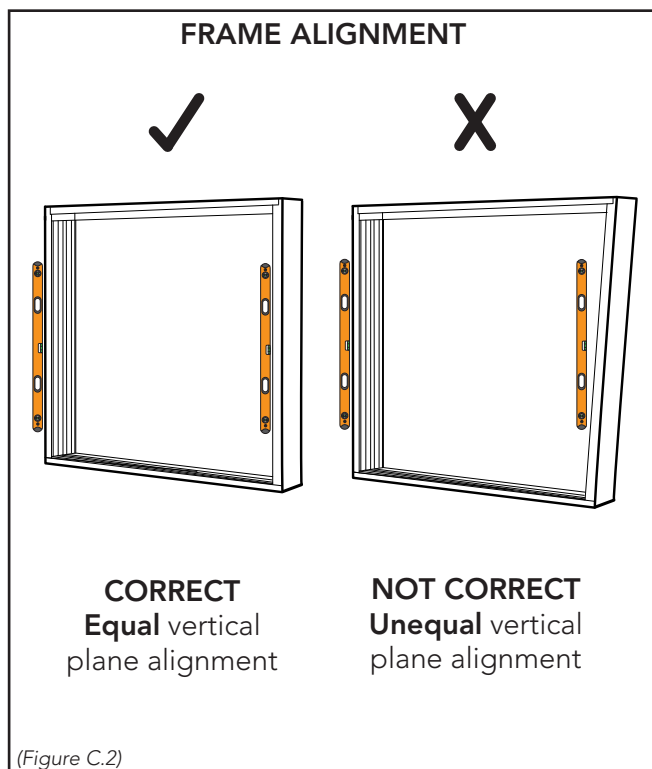
C. INSTALL FRAME



1 Place assembled patio frame into the opening, sill first. Center and square frame in opening. Leave enough space for proper shimming and insulation.

2 Pre-drill and install a #8 x 3" installation screw (Pack #2) into the top **INTERIOR** jamb pocket of each fixed sash side, 6" down from top corner. Locate screw on score line. **DO NOT over tighten screw causing frame to pull!** (Figure C.1)

3 Check for overall square of patio frame by measuring diagonally from corner to corner, each side. Recommended tolerance for the diagonal measurement is 1/8". Adjust top jamb screws as needed. (Figure C.1)



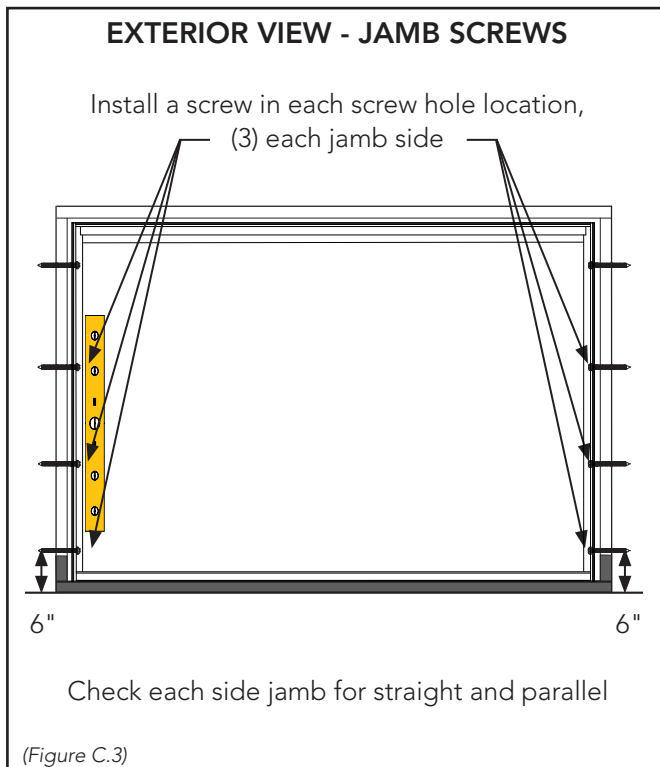
4 Level sill if needed. If sill is not straight and level, it must be shimmed for proper operation of the patio door.

5 Check plane of the patio frame. Each vertical jamb side frame should be equal and parallel to the other. See illustration for equal and unequal plane. (Figure C.2)



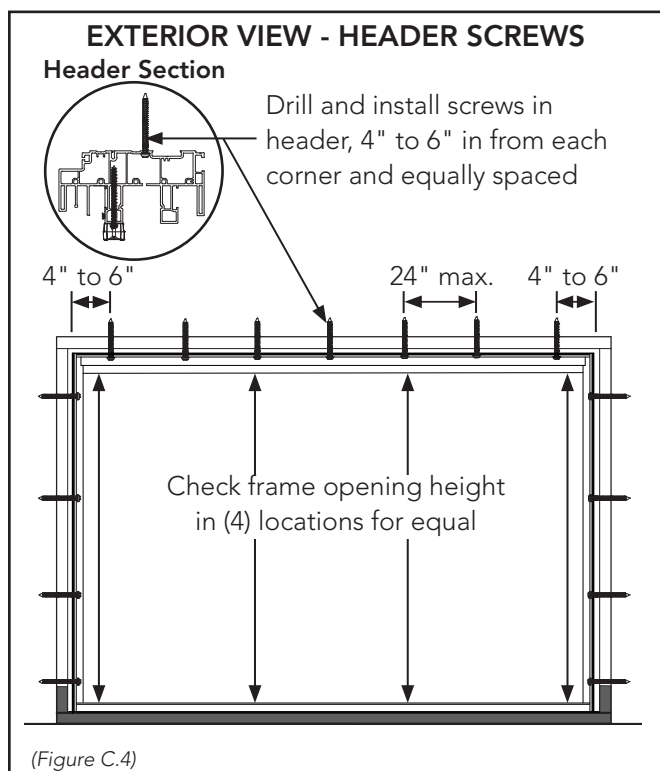
IMPORTANT! If frame is bowed, it may be necessary to shim frame at various locations before adding installation screws.

C. INSTALL FRAME (CONTINUED)



6 Pre-drill and install (3) #8 x 3" installation screws (Pack #2) into each **INTERIOR** jamb pocket. Locate each screw along vinyl score line. Place bottom screw 6" up from bottom corner of each jamb side. Place (2) screws equally spaced between the top and bottom screws of each jamb side. (Figure C.3)

7 Check each jamb side frame for straight and parallel to each other. Adjust jamb side installation screws as necessary for parallel. Be sure installation screws do not pull vinyl frame causing frame to bow. Re-check for overall square. (Figure C.3) (Also refer to Figure C.2 for correct plane alignment.)

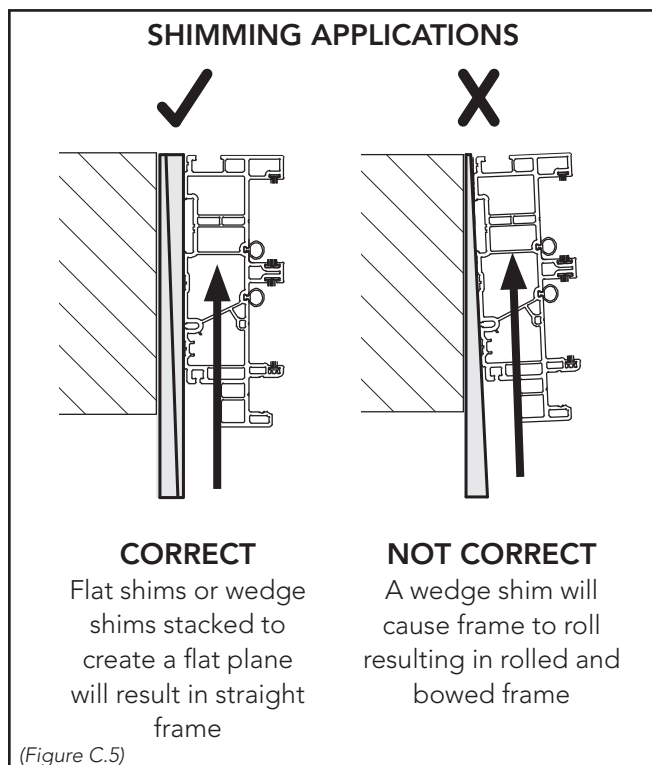


8 Drill a minimum of (7) $\frac{3}{8}$ " holes equally spaced at 24" maximum through the first wall of the vinyl header frame. Wider units will require more than the (7) screws. Place each corner screw hole 4" to 6" in from corner. Install a #8 x 3" screw (Pack #2) into each pre-drilled header screw hole location. **DO NOT over tighten screws causing frame to pull.** (Figure C.4)

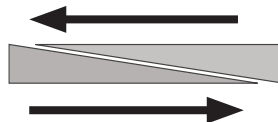
NOTE: DO NOT install screw hole plugs at this time. Plugs will be installed after installation is fully completed.

9 Check frame opening height in (4) locations, each jamb side and (2) center. All (4) measurements to be equal. Adjust header installation screws as necessary to achieve equal measurements. Be sure installation screws do not pull vinyl frame causing frame to bow. Header and sill must be parallel for proper operation of active sash and screen. (Figure C.4)

C. INSTALL FRAME (CONTINUED)

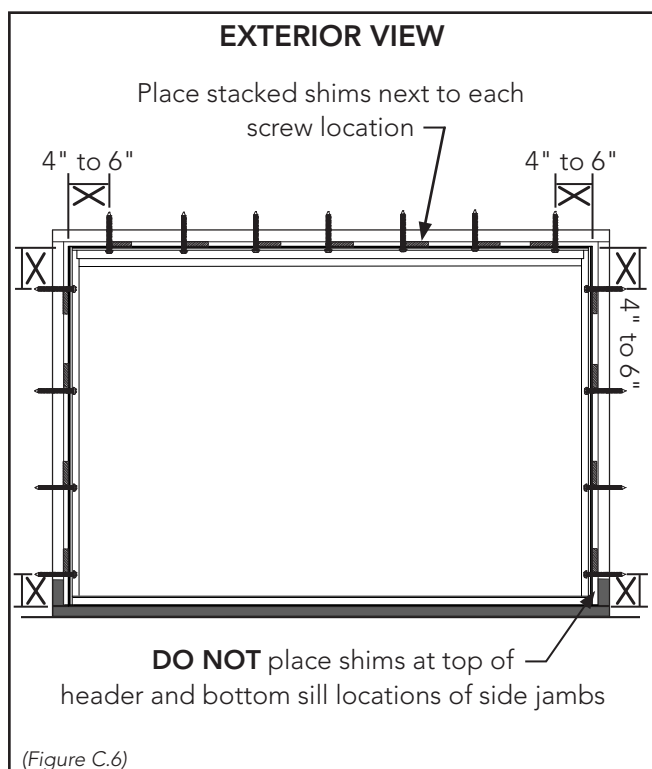


! IMPORTANT! **CORRECT** shimming application; stack wedge shaped shims contrasting and plane to plane. See diagram below. **DO NOT** use a single wedge shim. This will cause the frame to roll, resulting in unequal margins. (Figure C.5)



! IMPORTANT! **DO NOT** over shim. Improper shimming may roll, bow, and change margins, jeopardizing operation.

! IMPORTANT! To prevent water infiltration, **DO NOT** install screws through sill.

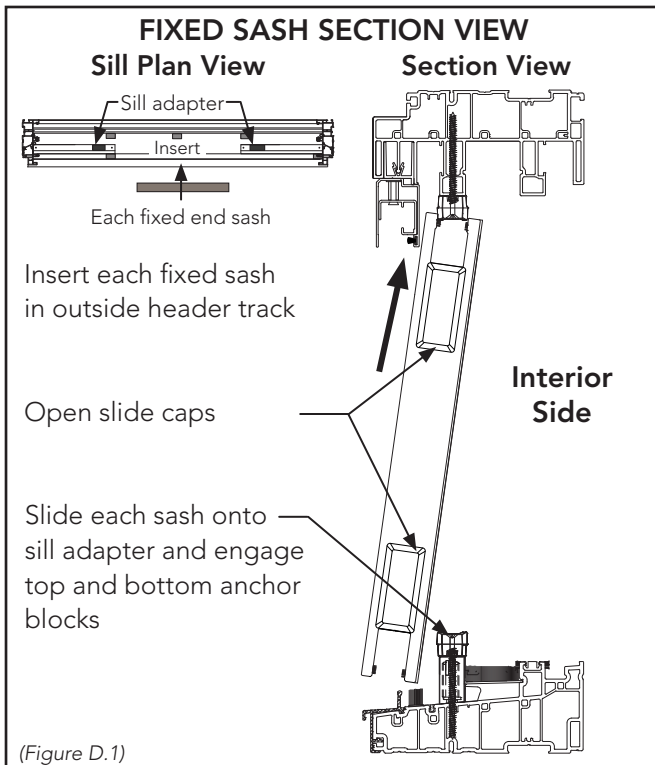


10 Place shims next to each installation screw location, each jamb side and header. Be sure top jamb shims are located 4" to 6" from top of frame and bottom shims are 4" to 6" from bottom of frame. Be sure header shims are located 4" to 6" from each corner. If spacing between side jamb or header shims is greater than 12" to 18", additional shims may be needed to maintain margins and stabilize frame. Use shims to adjust straight and parallel as needed. (Figure C.6)

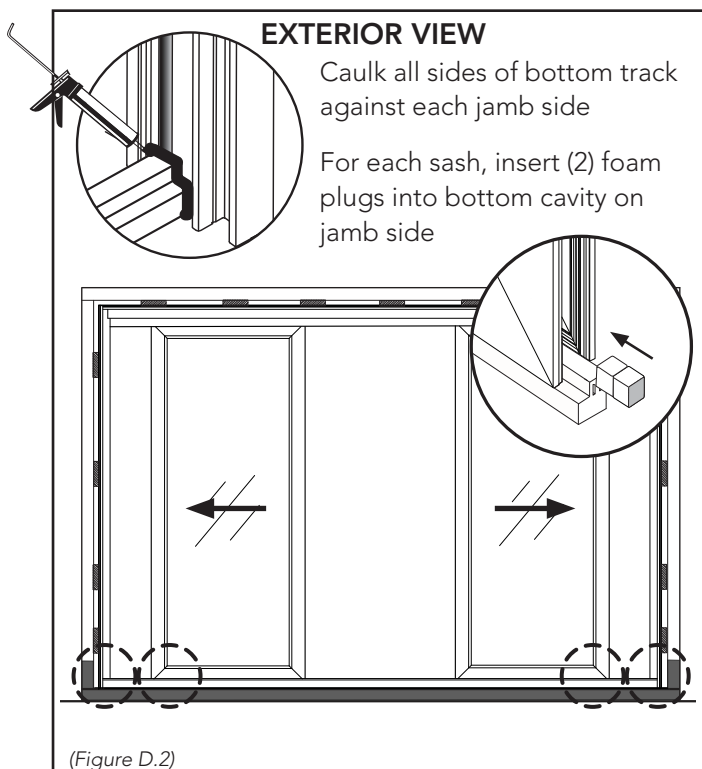
NOTE: To allow for vinyl expansion, **DO NOT** place shims at top header, bottom sill, or header corner locations as shown. Shimming in these locations will cause frame distortion.

11 Confirm frame is square on the same plane and not rolled.

D. INSTALL FIXED SASHES



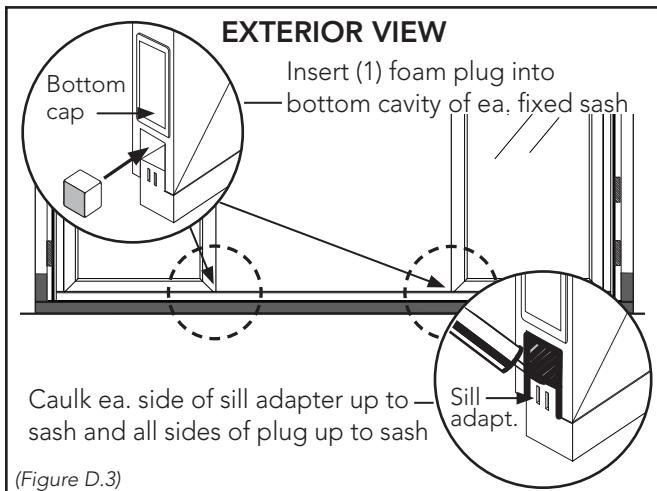
- 1 The slide caps located at the top and bottom of each fixed end sash stile are shipped in the open position. Check to be sure caps have remained open. In addition, check to be sure the weather strip within each interlock has remained in place and continues to remain in place throughout the installation.
- 2 Installation of fixed end sashes. From the exterior, orient sash with the (4) anchor screw holes facing the interior and weep holes located to the bottom exterior. The sash interlock rail will determine the installation side with rail to the center side of unit. Insert top of sash into the outside header track and away from the anchor blocks. Align bottom of sash with the sill adapter. Slide sash onto adapter and over top and bottom anchor block. Do not push sash fully against jamb. Repeat this step for second fixed sash. (Figure D.1)



- 3 For each fixed sash, insert (2) foam plugs (Pack #3), side-by-side, into the open bottom cavity of the jamb side stile. (Figure D.2)
- 4 Place a bead of caulk around all sides of the bottom track, where the track meets the side jamb. (Figure D.2)
- 5 Slide each fixed end sash tight into jamb pocket. Check square of frame to sash.

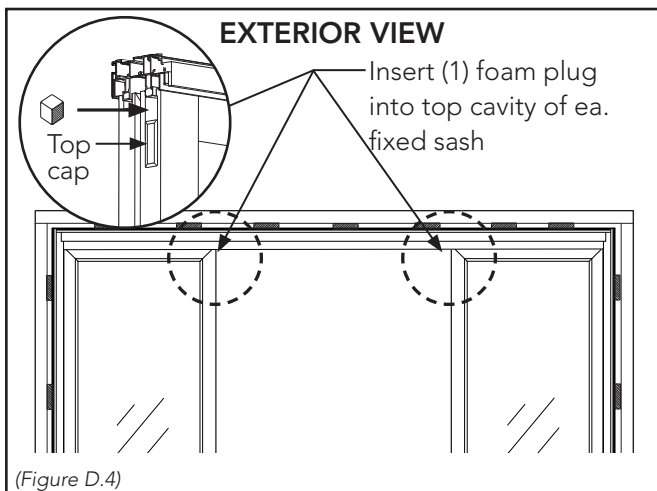
REMINDER, Check to be sure the weatherstrip on interlocks have remained in place.

D. INSTALL FIXED SASHES (CONTINUED)



- 6 Insert (1) foam plug (Pack #3) into the open bottom cavity of each fixed sash stile, side facing center. With plug in place, caulk each side of the sill adapter to sash and all sides of the foam plug to sash to form a complete seal, as shown in Detail. (Figure D.3)

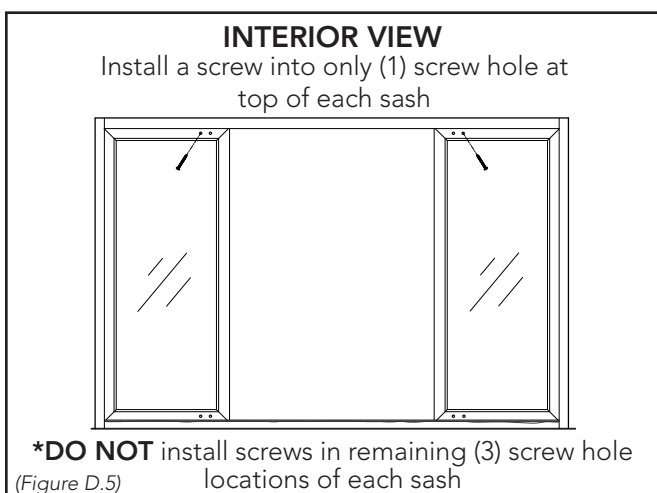
- 7 Insert (1) foam plug (Pack #3) into the top open cavity of each fixed sash stile, side facing center. (Figure D.4)



- 8 Slide top and bottom caps closed on each fixed sash.

- 9 Verify frame opening height in (4) locations, each jamb side and (2) center locations as performed in Section B. Adjust frame header as necessary for equal measurements. Frame header may need to be pushed up or pulled down to achieve equal measurements.

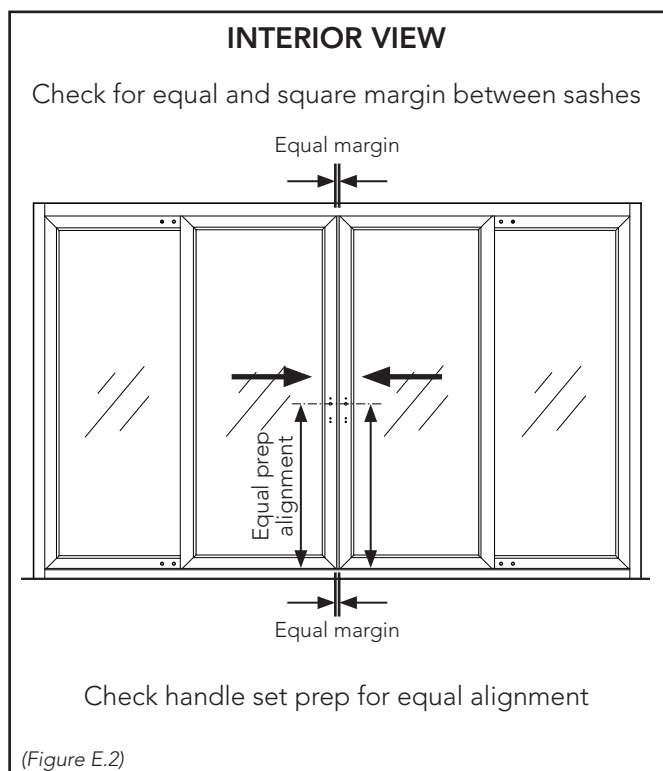
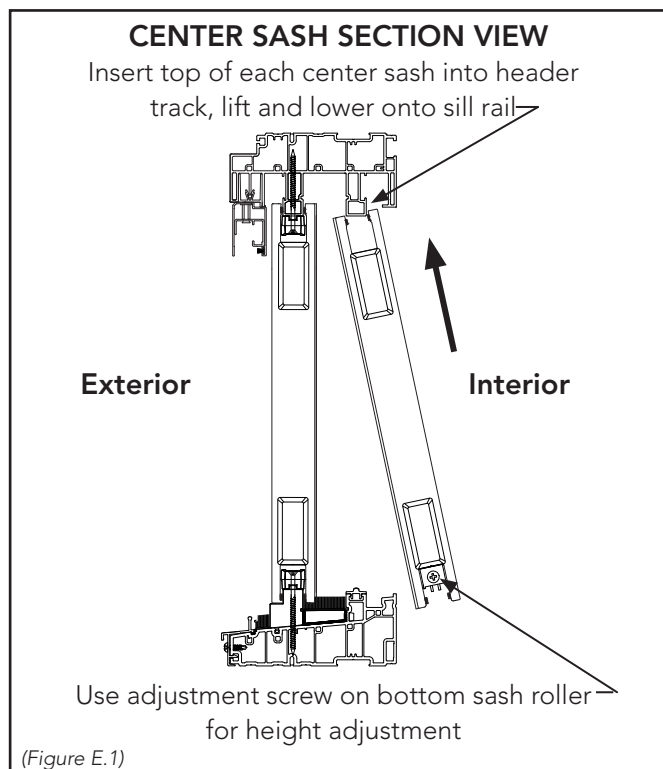
NOTE: THIS STEP IS CRITICAL for the AccuVent™ and screens to operate properly.



- 10 For each fixed sash, install ONLY (1) #8 x 1" Phillips pan head screw (Pack #3) into (1) factory prepped screw hole located at the top of the fixed sash. This will secure door to top anchor block. (Figure D.5)

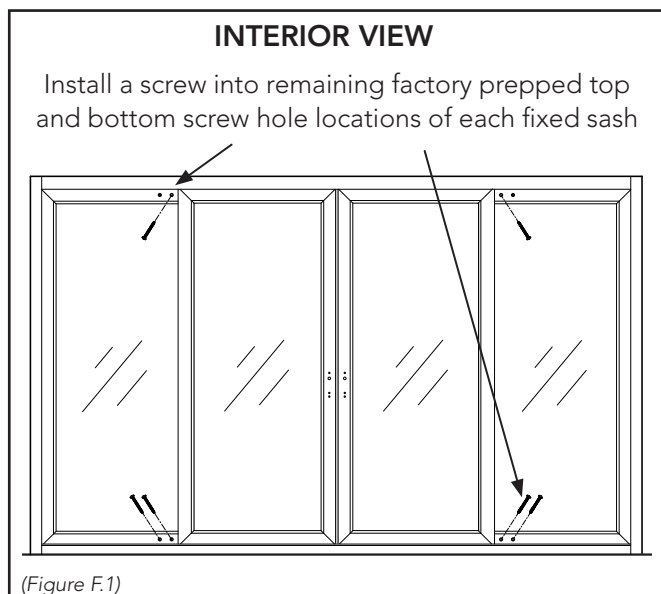
NOTE: DO NOT install the (3) remaining screws in each fixed sash factory prepped screw hole locations. This will allow for adjustment with active sash once installed.

E. INSTALL CENTER SASHES



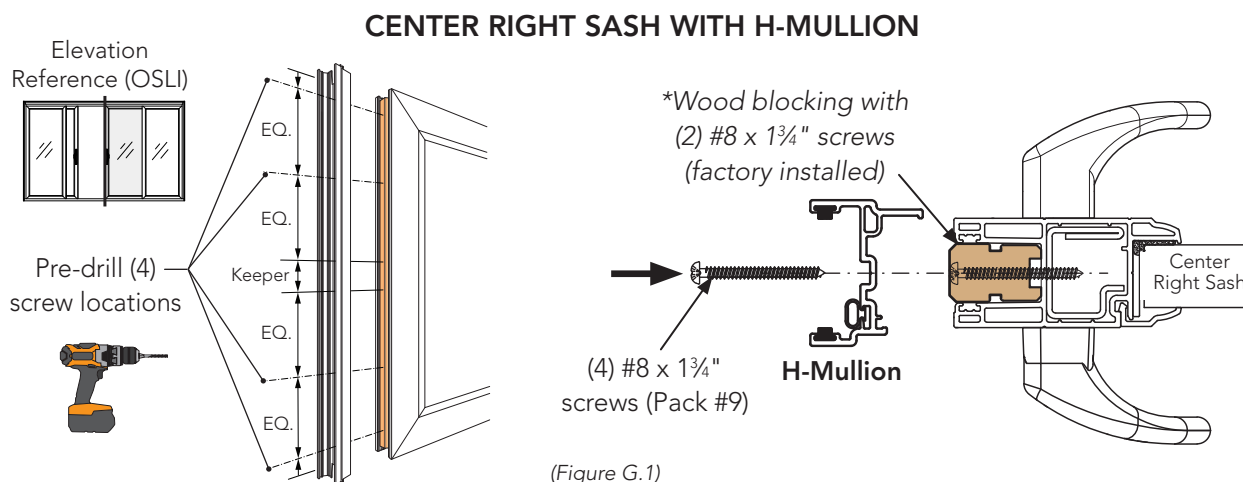
- 1 The slide caps located at the top and bottom of each center sash stile is shipped in the open position. Check to be sure caps have remained open. In addition, check to be sure the weather strip within each active sash and fixed sash interlock has remained in place and continues to remain in place throughout the center sash installation.
- 2 From interior of home, insert top of each center sash into the interior header track. Lift and lower sash onto the sill rolling rail. (Figure E.1)
- 3 Note the location of the adjustment screws located on bottom sash rollers to adjust each side of center sash as necessary for equal height, squareness, and margin. Turn adjustment screw clockwise to raise sash and counter-clockwise to lower sash. Unweight sash to assist with upward adjustment. (Figure E.1)
- 4 Close each center sash. Check center margin between sashes for equal and square for full height. (Figure E.2)
- 5 Check center sashes for equal height and alignment of the factory drilled handle set holes. Adjust sash height as needed. (Figure E.2)

F. INSTALL REMAINING FIXED SASH SCREWS



- 1 Re-check for equal frame height measurements. Check the fixed end sash to frame header alignment for equal spacing and margin across full width of unit. If fixed end sashes require adjustment, remove screw from Section D, Step 9.
- 2 Install a #8 x 1" Phillips pan head screw (Pack #3) into (3) remaining factory prepped top and bottom screw hole locations of each fixed sash. (Figure F.1)

G. INSTALL 4-LITE H-MULLION



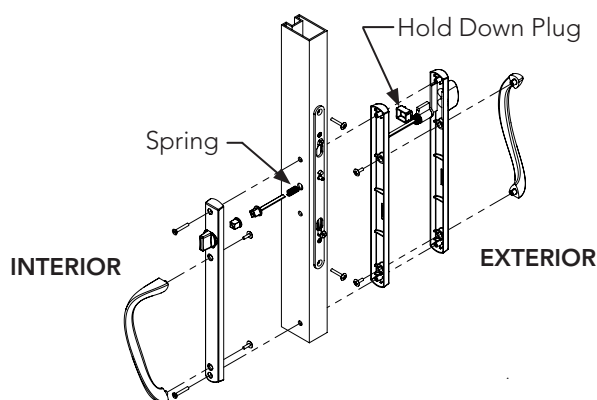
The secondary center RIGHT sash will ship from factory with wood blocking located and secured within latch-side vertical rail pocket using #8 x 1 3/4" square flat head screws, Part # S-HS-110-00.

- 1 Locate and place H-mullion onto the center right sash (OSLI). Orient the H-mullion with wide face to the interior (bulb seal to the exterior). Slide mullion onto sash end. Center mullion vertically. **Note: If difficulty fitting H-mullion, check wood blocking orientation. Correct orientation to match diagram.** (Figure G.1)
- 2 Pre-drill (4) holes in the H-mullion with a 3/32" drill bit. Locate (1) hole approximately 2" from the top and bottom of the door and (1) hole centered between the top and bottom hole and the approximate keeper location. **Carefully pre-drill all holes! DO NOT drill more than 2" in depth to avoid penetrating glass.** Secure in place using (4) #8 x 1 3/4" Phillips pan head screws (Pack #9). **DO NOT over tighten screws.** (Figure G.1)

H. INSTALL HANDLE SETS

**FOR KEYED SIGNATURE HANDLE SETS IN
White, Beige, Black, Sandstone,
White/Sandstone, White/Beige, and White/Black**

SPRING AND HOLD DOWN PLUG
MUST BE INSTALLED



**DO NOT USE a power screwdriver to install.
Doing so will cause damage and VOID WARRANTY
DO NOT OVER TIGHTEN the screws

(Figure H.1)

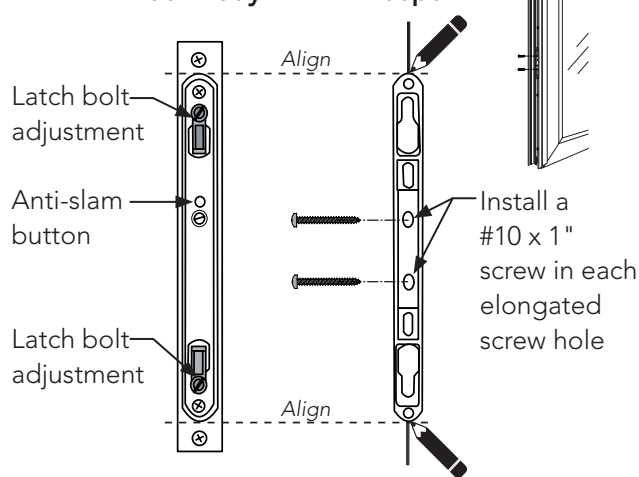


The manufacturer's hardware installation instruction is located inside the hardware box. Refer to the included instruction for the complete step-by-step guide.

- 1 Fasten handles to each plate using the (2) mounting screws provided. (Figure H.1)
- 2 For all keyed Signature handle sets in the color white, beige, black, sandstone, white/sandstone, white/beige, and white/black, the included spring and hold down plug MUST be installed. *This step does not apply to handles with a metallic finish or white/bronze finish.* (Refer to Figure H.1)
- 3 Position handle set into factory prepped holes. Align spindle with lock knob on inside handle. Confirm hand grip curves towards the glass. (Figure H.1)
- 4 Use (2) screws provided to install the exterior and interior handle set assemblies to the active sash. (Figure H.1)

I. INSTALL KEEPER

**PLACE KEEPER ON H-MULLION/
CENTER RIGHT SASH**



Center keeper on H-mullion score line and align with lock body, mark top & bottom

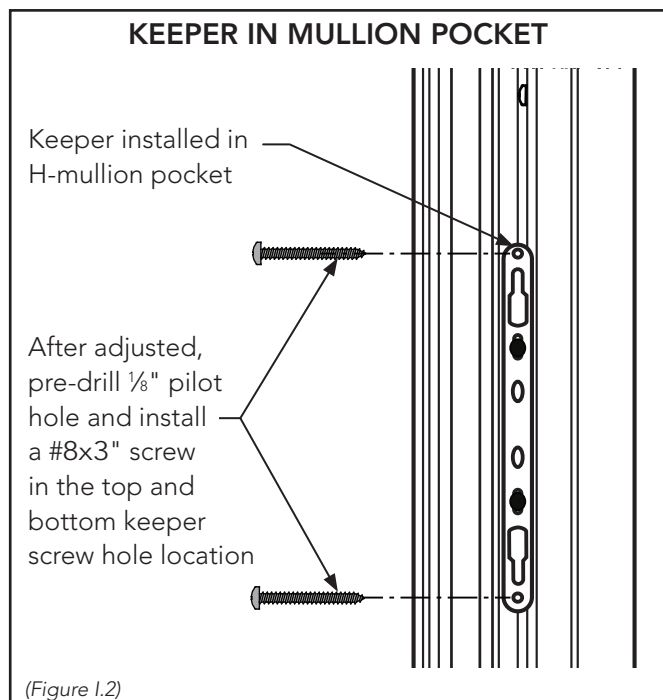
(Figure I.1)

- 1 Slide each center sash together, leaving enough room to align keeper with lock body. Mark H-mullion with the location of top and bottom keeper as aligned with lock body. (Figure I.1)

Tip: Place (2) strips of double-sided tape on back of keeper. Locate keeper onto lock body and lock in place. Close sashes tight to adhere keeper to center right sash. Unlock the lock body and open sash. Tape will hold keeper in position. Install keeper as directed below.

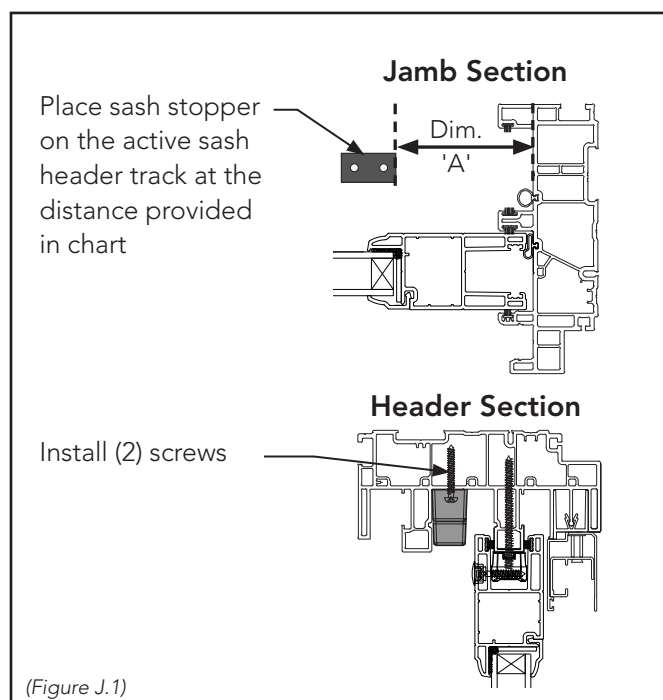
- 2 Center keeper on vinyl score line between marks made. Pre-drill pilot holes into the H-mullion. Install a #10 x 1" screw in the center of each elongated screw hole location. This will allow for a slight up and down adjustment if needed. (Figure I.1)

I. INSTALL KEEPER (CONTINUED)



- 3 Close center sashes, locking and unlocking handle. If needed, adjust the latch bolt and keeper positions until sash latches securely without sash movement or excessive latching effort. To adjust latch bolt position, open sash and engage the anti-slam button to allow the latch bolt to lock. Use a flat head screwdriver to loosen or tighten latch bolt as needed. Test function of the lock. Repeat step if lock is still too tight or too loose.
- 4 After final adjustments are completed, pre-drill $\frac{1}{8}$ " pilot holes through the top and bottom keeper screw holes and into mullion wood blocking and metal reinforcement. Install a #8 x 3" screw (Pack #2) in each location to secure in place. (Figure I.2)

J. INSTALL SASH STOPS



- 1 Place (1) sash stopper (Pack #5) behind each active sash and in the active sash header track. Locate each sash stopper per the appropriate dimension provided in chart below and per the illustration in Figure J.1.

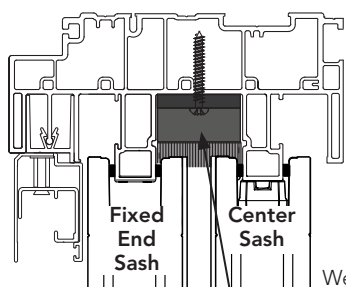
Sash Type	Dimension 'A'
Without Blinds	2 $\frac{3}{4}$ " from jamb sash pocket
With Blinds	4" from jamb sash pocket

! IMPORTANT! To avoid a pinch hazard between exterior handle set and fixed sash, do not allow less than the above dimensions.

- 2 Install each sash stopper with (2) #8 x $\frac{1}{4}$ " Phillips pan head screws (Pack #5). (Figure J.1)

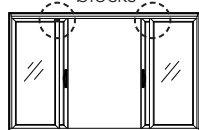
K. INSTALL HEAD WEATHER STRIP BLOCKS & INSECT STOPS

INTERLOCK WEATHER STRIP BLOCKS



Locate a weather strip block above ea. interlock and secure

(Figure K.1)



A TOTAL OF (3) HEAD WEATHER STRIP BLOCKS will be installed per this section; (1) over each interlock and (1) at center of frame header.

1

Verify the interlock weather strips have not slipped out of place but are flush with the top of the sash.

2

From the exterior and with the active sashes open, insert a weather strip block (Pack #4) in the center channel of the header. Locate the end of tall section flush with the end of the fixed sash. Repeat on opposite active sash side. (Figure K.1)

3

With the sashes open, secure each weather strip block with a #8 x 1 1/4" Phillips pan head screw (Pack #4). Close the sashes and from the interior, access the second screw hole and secure. **DO NOT over tighten screws.** (Figure K.1)

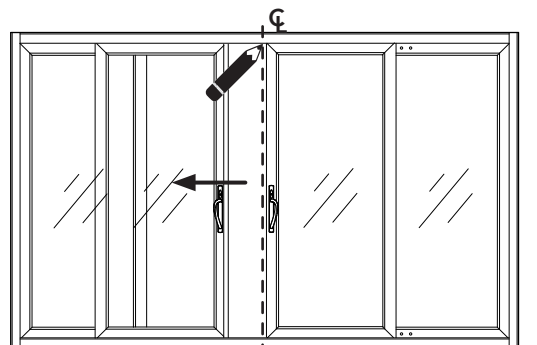
4

Close each center sash. Open (1) sash to locate and mark header with center point of unit. Locate and center (1) weather strip block on mark determined. Insert block into center channel of frame header as in the previous step performed. Secure center block using (2) #8 x 1 1/4" Phillips pan head screws (Pack #4). **DO NOT over tighten screws.** (Figure K.2)

5

Insert (1) foam plug (Pack #3) in the open cavity between the fixed sash and screen track, each side and as shown. Foam plug must align with edge of fixed sash. (Figure K.3)

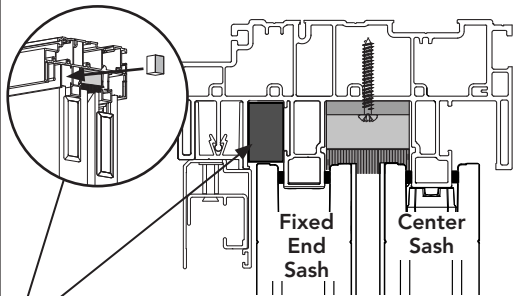
CENTER WEATHER STRIP BLOCK



Locate a weather strip block at center point of unit, secure using (2) screws

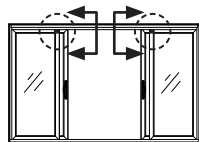
(Figure K.2)

FIXED SASH INSECT STOPS - SECTION

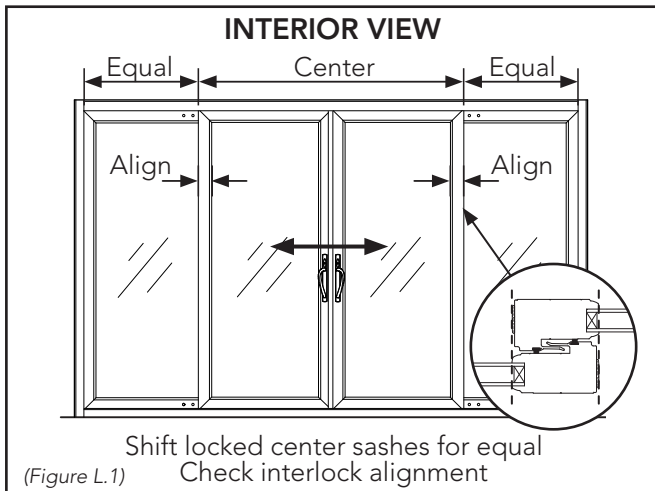


Insert (1) foam stop (plug) in open cavity, each fixed sash

(Figure K.3)



L. INSTALL PANEL STOPPER



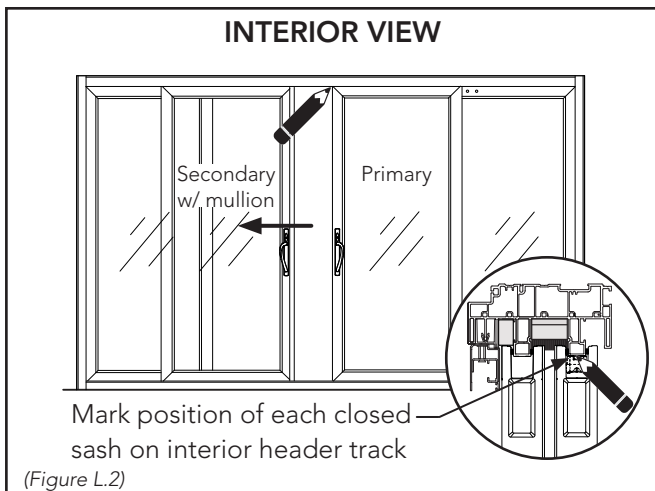
! IMPORTANT! It is critical to install the panel stopper. The stopper will prevent left and right sash movement when door panels are locked together.

1 From the interior, close each center sash and lock handle set. Slightly shift locked center sashes left or right for equal and center placement. Be sure each center sash interlock is engaged and aligned with the fixed sash interlock. (Figure L.1)

2 Unlock and open LEFT secondary sash (inside looking out). Be careful to not move the RIGHT primary sash from the closed position. Use pencil to mark location of the RIGHT closed sash on interior sash header track. (Figure L.2)

3 Re-close LEFT sash (inside looking out). **BE SURE** RIGHT sash remains aligned with pencil mark.

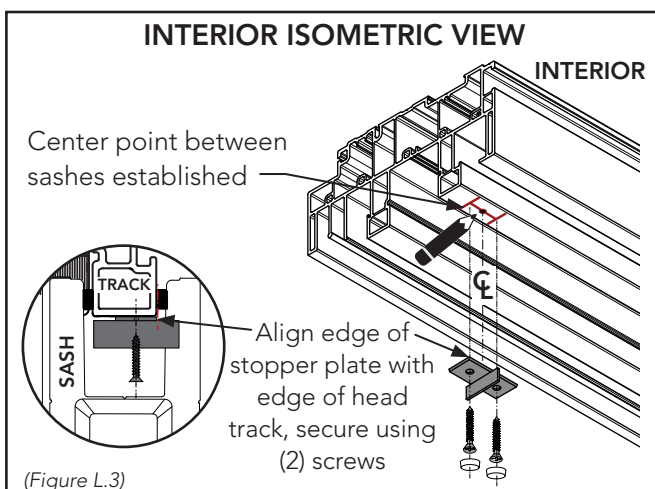
4 Open RIGHT primary sash (inside looking out). Be careful to not move the LEFT secondary sash from the closed position. Use pencil to mark location of the LEFT closed sash within the H-mullion pocket on interior sash header track. (Figure L.2 - Reverse)



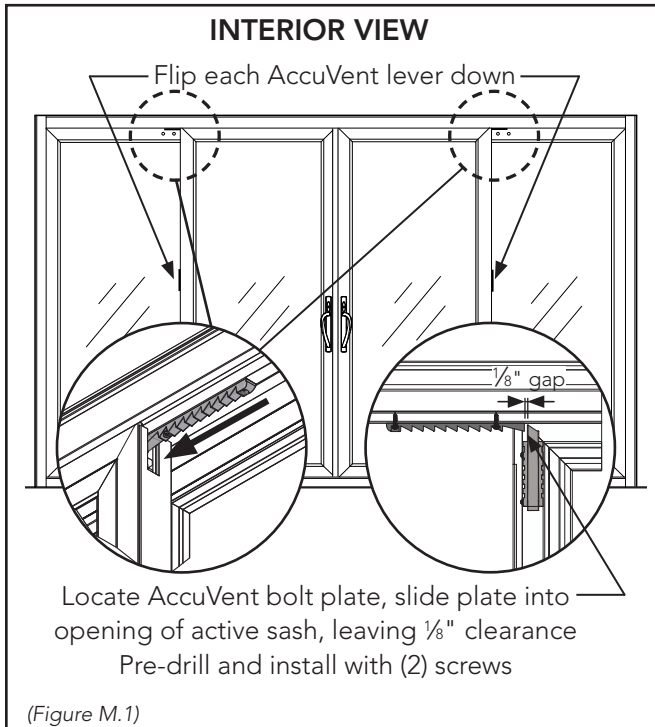
5 Open each sash. Determine the center point between the (2) pencil marks. Align center of panel stopper on the center mark established. Shift stopper to front or back to align edge of stopper plate with edge of the head track, as shown. Secure using (2) #8 x 1" Phillips flat head screws (Pack #9). (Figure L.3)

6 Close sashes to check for proper alignment. Lock and unlock handle set to check for proper latch function. If needed, adjust latch bolt position. Refer to Section I, Step 3.

7 Install a vinyl screw cap (Pack #9) over each panel stopper screw. (Figure L.3)



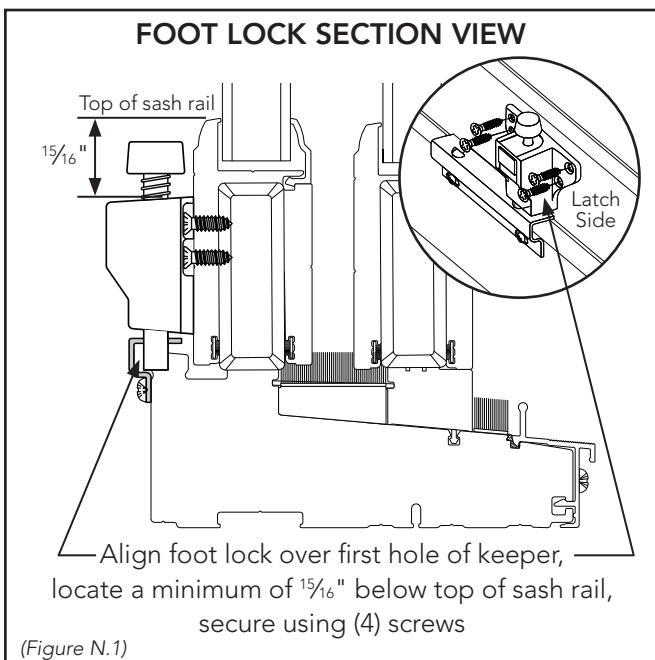
M. INSTALL ACCUVENT™ SYSTEM BOLT PLATE



 AccuVent™ is a standard feature on all Endure™ and an optional feature on all Aspect™.

- 1 Close active sash and lock handle.
- 2 Flip AccuVent lever down into locked position. (Figure M.1)
- 3 Locate the AccuVent bolt plate (AccuVent Bolt Plate Kit) on the active sash header track. Slide plate into the stile opening of the active sash, next to the AccuVent bolt, as shown in Figure M.1. Provide a 1/8" clearance between bolt plate and bolt. (Figure M.1)
- 4 Pre-drill a 3/32" or 7/64" hole and install (2) #8 x 1" screws (AccuVent Bolt Plate Kit). **DO NOT over-tighten screws.** (Figure M.1)

N. INSTALL FOOT LOCKS

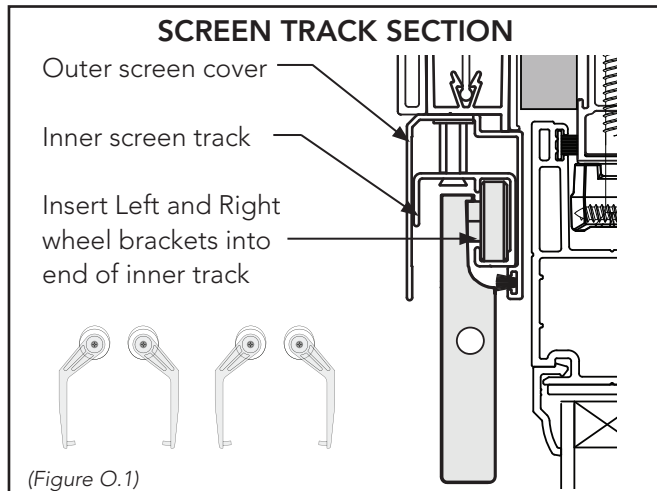


 Foot lock is a standard feature on all Aspect™ and an optional feature on all Endure™.

***Foot lock keeper is factory mounted.**

- 1 Close center sashes and lock handle set.
- 2 For each side, align foot lock (Pack #6) over the first hole of keeper, closest to the latch side. Locate and install foot lock body a minimum of 15/16" below top of sash rail, as shown. Check to be sure bolt will engage keeper. Secure to sash using (4) #8 x 3/4" Phillips oval head screws (Pack #6). (Figure N.1)

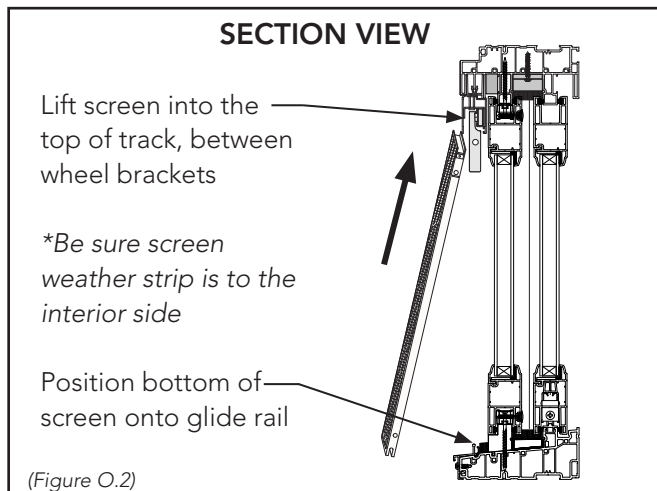
O. INSERT SCREENS



Screen mullion will ship factory installed on **RIGHT** screen (outside looking in).

1

Insert Left and Right screen wheel brackets into the inner track of the top screen track assembly (Pack #10). Brackets are labeled and identified by outside looking in. Insert each roller pair into the open space located at each jamb side end of the inner screen track. BE SURE each wheel bracket is positioned correctly. (Figure O.1)



2

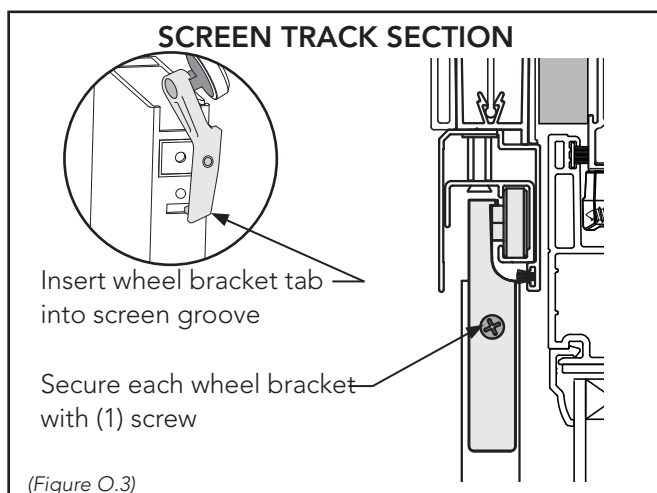
Lift screen into the top screen track assembly and between wheel brackets. Place screen with the weather strip to the interior side. (Figure O.2)

3

Lift and position bottom of screen onto screen glide rail. (Figure O.2)

4

Insert the left and right wheel bracket tabs into groove located at the top of screen frame. (Figure O.3)

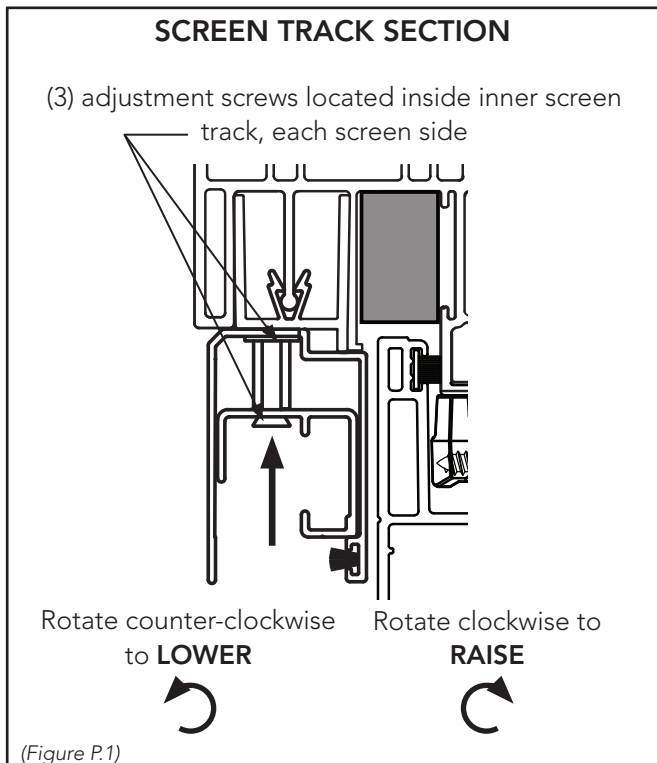


5

Secure each wheel bracket using a #2 Phillips head screwdriver to install a #6-32 x 7/8" Phillips flat head screw (Pack #10). (Figure O.3)

NOTE: DO NOT use excessive torque on the bracket screws.

P. ADJUST SCREEN AND KEEPER



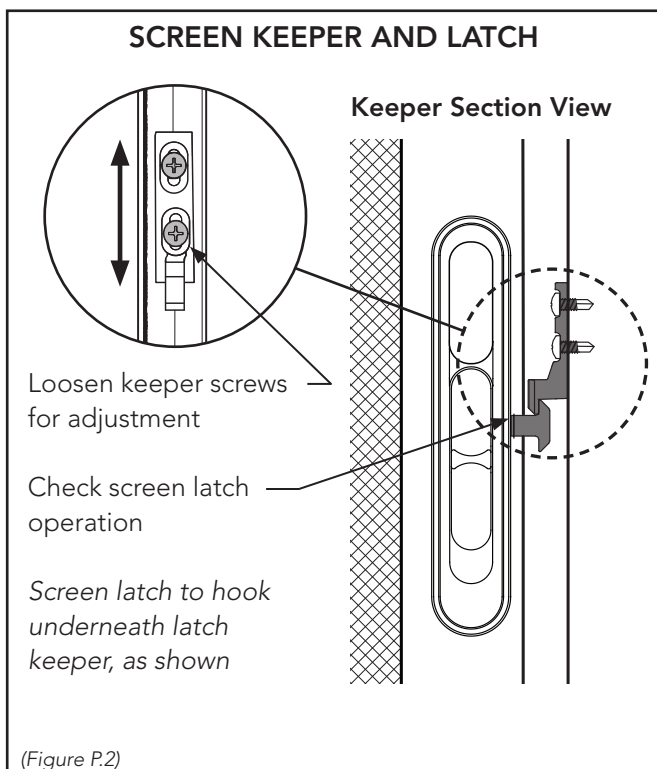
Screen latch and screen keeper are factory installed.

1

To adjust the height and square of the screen, locate the (3) adjustment screws inside the inner screen track for each screen side. (The Left and Right inner screen tracks are separate and move independently.) Adjust the left and right screws until screen is parallel to sash and jamb. Once screen placement is established, align center screw to match.

NOTE: Each complete turn of the screw will raise or lower the track by $\frac{1}{32}$ ". Turn counter-clockwise to **LOWER** the screen and clockwise to **RAISE** the screen. **DO NOT** remove the adjustment screws. (Figure P.1)

NOTE: DO NOT USE a power drill to make adjustments. Doing so will cause excessive torquing of adjustment screws. **ONLY** use a #2 Phillips head screwdriver.



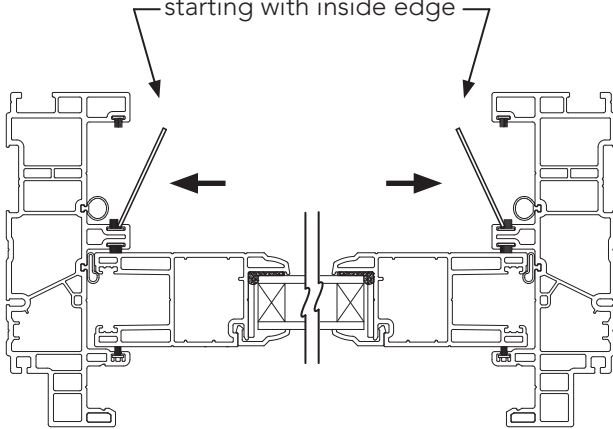
2

If the screen is not latching properly after screen alignment has been established, check the screen latch for proper operation. Screen latch should hook underneath latch keeper. Latch should always unlatch while pushing down on keeper slide. If adjustments are required, use a #2 Phillips head screwdriver to loosen keeper screws and move keeper up or down as needed. (Figure P.2)

Q. INSTALL JAMB COVERS, SCREW CAPS AND HOLE PLUGS

INTERIOR JAMB COVERS

Install each interior jamb cover, starting with inside edge



(Figure Q.1)



IMPORTANT! Final check on sash and hardware operation. **ALL frame and sash adjustments must be finalized before proceeding.**

1

Install each interior vinyl jamb cover, start at top by first inserting inside edge. Use thumb to guide edge into the frame pocket, located in front of weather strip. Use opposite thumb to apply slight pressure to top edge of cover closest to you, snapping in place. Run thumbs along edge from top to bottom of cover, apply continuous pressure, zip into place. (Figure Q.1)

2

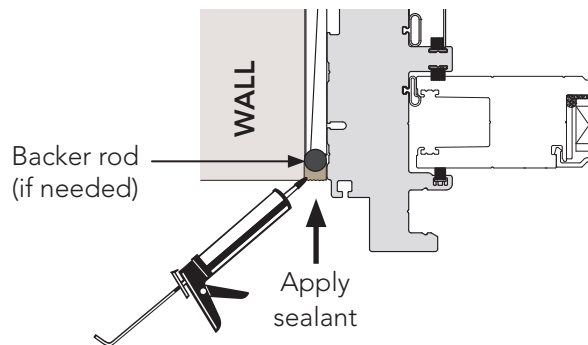
Install (4) vinyl screw caps (Pack #3) in each fixed sash interior side screw hole.

3

Install vinyl screw hole plugs (Pack #2 or hardware box) into all frame header installation screw holes.

R. INSULATE

SEAL EXTERIOR FRAME TO WALL JOINT



DO NOT SKIP THIS STEP!

(Figure R.1)

1

Trim all shims flush with patio frame.

2

From the interior, insulate with an AAMA approved ASTM C1620 low-expanding foam to fill all cavities between frame and opening. Check and maintain all margins during insulating. **Over use of low-expanding foam may cause frame to bow, jeopardize operation.**

3

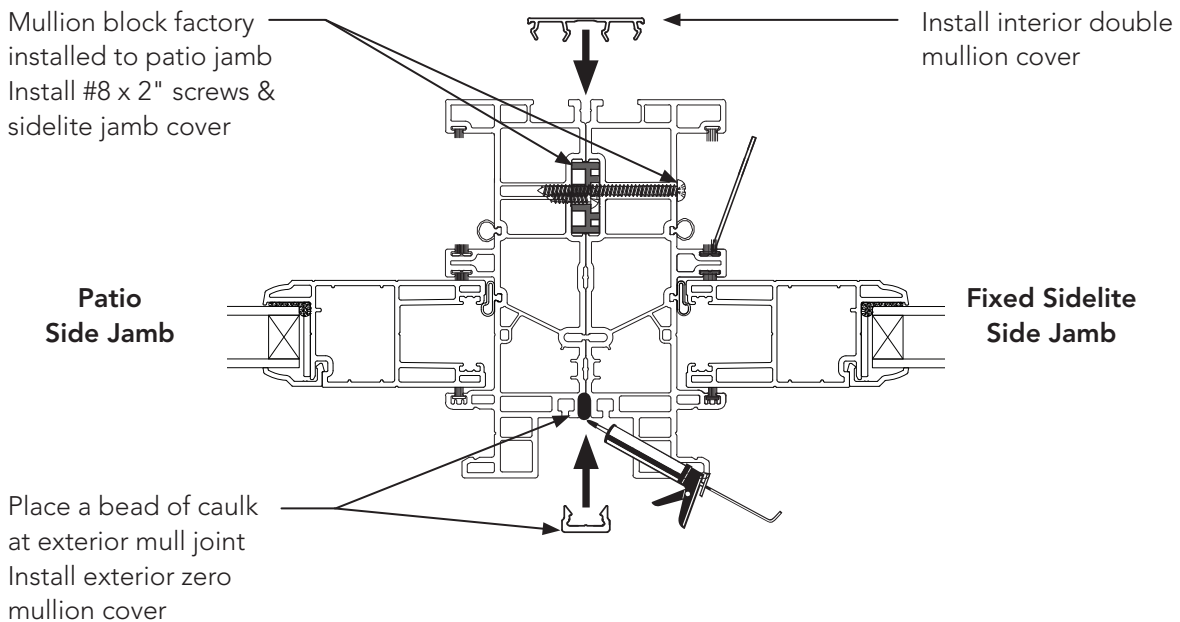
For units without nail fin, apply a bead of caulking to seal the EXTERIOR frame to wall joint. If needed, use backer rod, be sure to press rod into gap approximately $\frac{1}{4}$ ". **DO NOT SKIP THIS STEP.** (Figure R.1)



IMPORTANT! Allowance must be given for expansion and contraction of exterior trim application. Refer to the QR code located at the end of this instruction for gap recommendations per exterior finish material type.

S. FIELD MULLING

PATIO TO FIXED SIDELITE MULL SECTION VIEW



(Figure S.1)



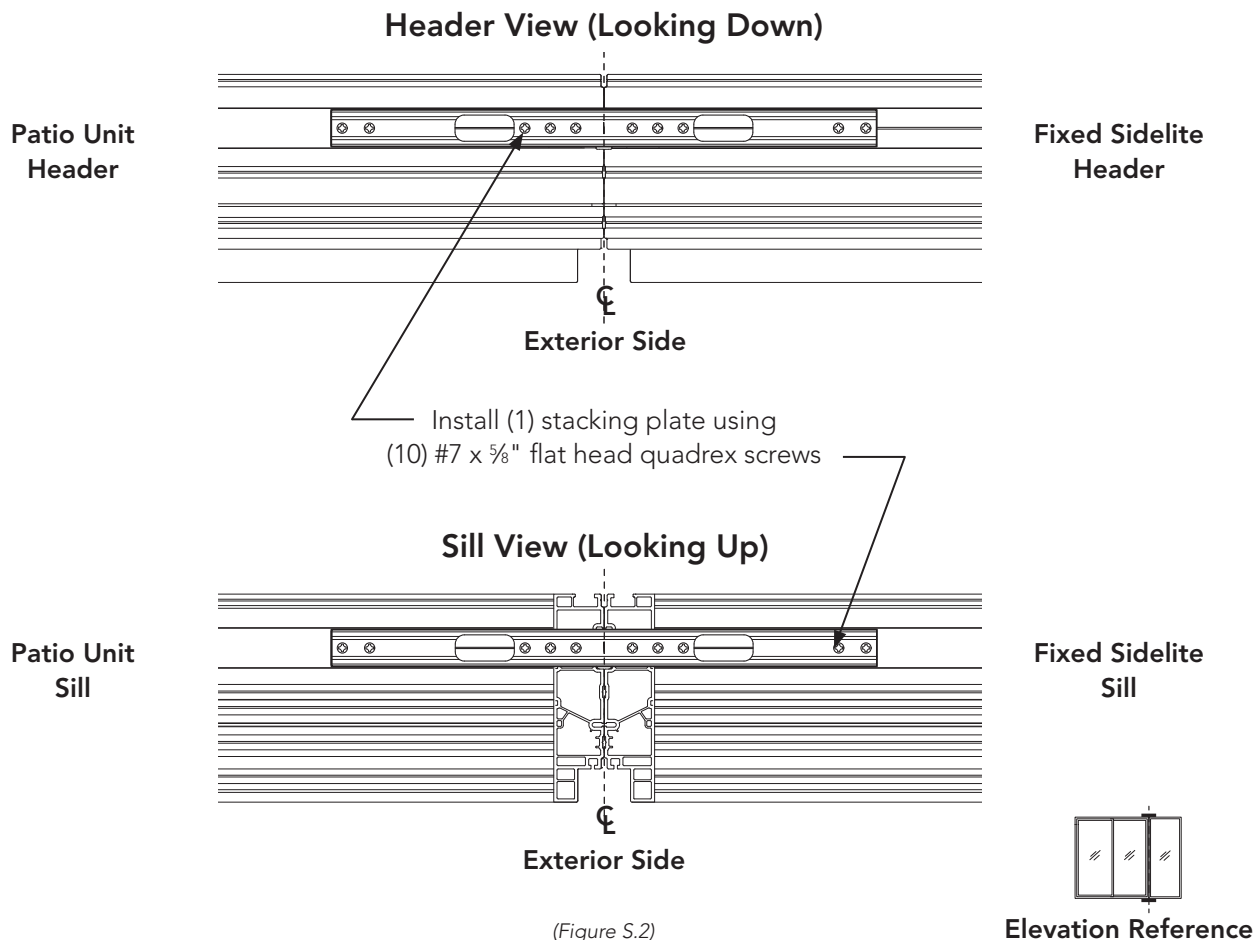
Units must be mulled together before setting into the opening. Use Installation Pack - Mulled Units, Part # S-DH-022S-CC for required field mulling components.

Mullion block(s) will be factory installed to patio unit. For sidelite units over 84" in height, ALL transom units, and dual sidelite units refer to the included document 'Installation Instructions Vinyl Patio Sidelite or Transom Field Mulling - Heavy Reinforcement'. Document can also be referenced by the QR Code found at the end of this instruction.

- 1 Align the fixed sidelite to patio unit. Check for flush, even and square alignment of frames.
- 2 Secure fixed sidelite to patio using (6) #8 x 2" screws, evenly spaced through the fixed sidelite jamb pocket. Center screws on vinyl score line. Install fixed sidelite vinyl jamb cover. (Figure S.1)
- 3 Place a bead of caulk at all exterior mull joint locations. Be sure all voids between mulled frames are sealed. (Figure S.1)
- 4 Install the vinyl exterior zero mullion cover and interior double mullion cover into frame accessory channels, as shown. (Figure S.1)

S. FIELD MULLING (CONTINUED)

PATIO TO FIXED SIDELITE STACKING PLATE INSTALL



- 5 Install (1) stacking plate to secure patio frame header to sidelite frame header. Align centerline of stacking plate with centerline of mull joint. Secure plate using (10) #7 x 5/8" flat head quadrex screws (provided) as shown. (Figure S.2)
- 6 Install (1) stacking plate to secure patio sill to sidelite sill. Align centerline of stacking plate with centerline of mull joint. Secure plate using (10) #7 x 5/8" flat head quadrex screws (provided) as shown. (Figure S.2)
- 7 If the patio unit was ordered with an installation accessory, install at this time. Refer to the included document, 'Installation Instruction Vinyl Patio Door Installation Accessories and New Construction Flashing'. The QR code for this instruction can also be found at the end of this instruction document.



TROUBLESHOOTING & TIPS

PROBLEM	CAUSE	SOLUTION
Sash is difficult to operate	1. Sill is crowning. 2. Header is sagging.	Measure distance between sill and header at each jamb and several locations in between. If measurements are not equal, sill could be crowning or the header could be sagging. This will cause the head weather strip block to put too much pressure on the sash making it difficult to operate. 1. Make necessary adjustment to level sill. 2. Adjust shims and screws in header.
Handle set is difficult to lock	1. Keeper or latch bolt is not properly positioned. 2. New bulb seal is stiff.	1. Refer to Section I for adjustment and positioning instruction. 2. Latch the door for a period of time to allow the weatherstrip to compress. Operation will ease with time.
Screen is dragging	Outer screen track is slightly angled outward.	Re-align outer screen track.
Screen weather strip does not contact sash	Outer screen track is slightly angled outward.	Re-align outer screen track.
AccuVent™ bolt will not release from bolt plate	Head is bowed down or sill is bowed up.	Refer to Section E, 'Install Center Active Sash'. Adjust as required.
Screen rollers hitting	1. Inner track is too high. 2. Inner track screw is hanging down.	1. Lower top inner track. Refer to Section P, 'Adjust Screen and Keeper' of this instruction. 2. Adjust inner track screw height.
Center sash rolls uneven or rough	Dirt build up on the wheels.	Clean wheels.
Air leakage at the interlocks	1. Top weatherstrip block is missing or incorrectly located. 2. Interlock weatherstrip is out of location. 3. Foam plugs are not installed.	1. Refer to Section K for installation and placement of head weather strip block. 2. Relocate weather strip. 3. Refer to Section D, 'Install Fixed Sash' for installation of foam plugs.
Locked center sashes appear too wide and/or have excessive left to right movement	Panel stopper is missing or incorrectly located.	Refer to Section L for installation and placement of panel stopper.
Visible daylight above sash mullion	Mullion incorrectly positioned.	Remove sash mullion. Adjust mullion slightly upward and re-install.
Condensation is present on inside or outside of glass	Various normal conditions/ reasons.	Refer to "Condensation, Humidity and Dew Point Temperature" QR code listed below for a detailed explanation of normal condensation conditions.
Screen will not roll/ dragging over screen sill track	Inner track is too low.	Raise top inner track to prevent drag. Refer to Section P, 'Adjust Screen and Keeper' of this instruction.



TROUBLESHOOTING & TIPS

**Please call Customer Support for additional installation inquiries at 1-800-669-4711.*

**For additional information and helpful videos, visit our Installation Support Homepage
SCAN or TAP the QR Code.*



Install Instruction Vinyl Patio
Sidelite or Transom Field Mulling -
Heavy Reinforcement



Installation Instruction Vinyl Patio
Door Installation Accessories and
New Construction Flashing



Installing
Exterior Veneers to
Patio/Windows



Condensation, Humidity
and Dew Point
Temperature



