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

TOOLS & MATERIALS YOU WILL NEED

- Tape measure
- Pencil
- Shims
- Drill & Drill Bits
- Utility Knife
- Hammer or Mallet
- Flat-Head Screwdriver
- Phillips Screwdriver
- Level
- High Quality Silicone Caulking in accordance with ASTM C 920, Class 25 & Caulking Gun.
- AMMA approved Low-Expanding Window Insulation Foam in accordance with ASTM C, 1620.

REMEMBER: ALWAYS USE THE APPROPRIATE PERSONAL PROTECTIVE EQUIPMENT.

Read these instructions carefully before starting installation. Failure to follow installation instructions voids all existing and implied warranties.

IMPORTANT NOTES BEFORE YOU BEGIN

- Inspect your package for any visible damages to the product. In addition, double check your paperwork with label on product(s) and verify all information matches up. Open packaging to confirm style, color, and that order was shipped complete. Double check size of new unit by comparing measurements to opening.

- If you have ordered extra optional items, verify they are included in packaging contents. This includes checking for multiple packages (For example, 1 of 2 and 2 of 2).

- In Wind Borne Debris Areas find instructions: https://floridabuilding.org
Visit this site with the Quick Reference Code shown by using your QR Code Scanner App. No QR code scanner app? Visit your phone's app store to find a free app.
NOTE: Please refer to chart below for the required contents of the patio door installation.

**Main Frame**
- (1) Left Jamb
- (1) Right Jamb
- (1) 4-Lite Sash Mullion Assembly
- (2) Jamb Covers
- (1) Header Assembly
- (1) Sill Assembly with Sill Dust Covers factory installed

**Sash and Screen Parts**
- (2) Active Sashes with (1) Wood Blocking factory installed in sash
- (2) Fixed Sashes
- (1) Left Screen and (1) Right Screen. Screen Mullion with latch attached

**Door Hardware Parts**
- (1) Handleset and (1) Dummy Handleset
- (1) Mortise Handleset Keeper (Taped to sash)
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 Patio Door Installation Pack
S-DH-043S-CC

- The individual installation packs are labeled and 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. Individual Pack content information to follow.

Installation Pack #1
S-HS-344S-00
(Frame Assembly)

- (1) #8 x 2" Phillips Square Stainless Steel Screws, Part #: S-HS-344-00
- (20) #8 x 2" Phillips Square Stainless Steel Screws, Part #: S-HS-344-00
- (16) ¾" Low Profile Hole Plugs (Color Matched), Part #: S-HG-698-CC
- (16) #8 x 3" Phillips Square Combo Screws, Part #: S-HG-350-00
- (1) #2 Phillips Square Combo Bit, Part #: S-ST-347
- (8) Foam Plugs, Part #: S-HG-521-01
- (8) #8 x ¾" Phillips Square Combo Screws, Part #: S-HS-345-00
- (8) Screw Caps Cover (Color Matched), Part #: S-HG-311-CC
- (3) Head Weatherstrip Block, Part #: S-HG-524-13
- (6) #8 x 1 ¼" Phillips Panhead Screws, Part #: S-HS-342-13
INSTALLATION PACK CONTENTS

Installation Pack #5
S-DH-025S
(Frame Header & Bumper)

(2) Sash Stopper,
Part #: S-HG-532-13

(4) #8 x 1¼" Phillips Panhead Screws,
Part #: S-HG-342-13

Installation Pack #6 (Optional)
S-DH-026S-CC
(Active Sash)

(2) Secondary Lock (Color Matched),
Part #: S-HG-353-CC

(8) #8 x ¾" Phillips Oval Head Screws,
Part #: S-HS-414-CC

Installation Pack #9
S-DH-029S-CC
(Frame Header, Stopper, & Sash 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

(6) #8 x 1 ¾" Phillips Panhead Screws,
Part #: S-HG-352-00

Installation Pack #10
S-DH-010S
(Screen)

Screen Wheel Brackets,
(2) Part #: S-HG-366P-00 (Right Hand)
(2) Part #: S-HG-367P-00 (Left Hand)

(4) #6-32 x ⅝" Phillips Flathead Screws,
Part #: S-HS-360-00

Installation Pack
S-HG-573S-CC
(Accuvent)

(1) Accuvent Bolt Plate,
Part #: S-HG-573-CC

(2) #8 x 1 Phillips Square Screws,
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. RH Jamb - S-VE-7004R-6-CC
D. LH Jamb - S-VE-7004L-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. Common Screen Keeper - S-DH-069
H. Jamb Covers (Ea. Side) - S-VE-0714-CC
I. Black Recessed Bumper - S-HG-349-13
J. Accuvent Bolt Plate (Ea. Side) - S-HG-573S-CC
   (See page 20 for Detail)

SCREEN PARTS:
S. Patio Screen Handle LH - P-SC-ACC-068
   (Inside Looking Out)
T. Patio Screen Handle RH - P-SC-ACC-071
   (Inside Looking Out)
U. Screen Mullion - S-VE-0715-CC
V. **RH Wheel Bracket Assembly - S-HG-366P-00
   (See page 20 for Detail) (See note this page)
W. **LH Wheel Bracket Assembly - S-HG-367P-00
   (See page 20 for Detail) (See note this page)

SASH PARTS:
K. 4 LT. Mullion - S-VE-7005-01
   (See page 15 for Detail)
L. 4 LT. Wood Mullion Block - S-HG-543-00
   (See page 15 for Detail)
M. Multi- PT. Lock/Keeper - S-DH-072
   (See page 16 for Detail)
N. Tandem Wheel Patio Door - S-HG-355-00
O. Sash Groove Cover - S-VE-7023-CC
P. Sliding Cap - S-HG-530-CC
Q. *Accuvent Latch Trim Plate - S-HG-570-CC
   (See page 20 for Detail) (See note this page)
R. *Accuvent Latch - S-HG571-00
   (See page 20 for Detail) (See note this page)

NOTES:
* For re-order of all Accuvent parts, please order the Accuvent Latch Repart 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 call our Customer Service Team at 1-800-669-4711.
Confirm factory mounted gaskets are in place.  (*See Illustration.*)

1. Arrange the 4 frame assembly pieces on a level and well supported area. Place main frame assembly pieces with the exterior of frame facing up. See detail drawing above. Then align each jamb with header and sill, making sure the screen bumpers on jambs are located at top and facing exterior.

2. Secure each jamb at head and sill with (5) #8 x 2” Phillips Head screws in each corner (Install Pack #1). Make sure factory mounted gaskets on the jambs are well compressed.

Important! Patio unit frame will have some pre-assembly and preparations from the factory.
B. ACCESSORY INSTALLATION OPTIONS

**Interior Accessory Groove Cover**

Every door is provided with (3) Interior Accessory Groove Covers that will snap into the interior accessory channel.

**Mullion Options**

To mull a door to sidelites or a transom, snap in 5840 Double Cover in accessory groove of each unit on the inside.

Then, snap in a 5928 0° Mullion Cover into the accessory groove channel of each unit on the exterior of door.

**Brickmold Options**

Snap brickmold accessory into channel of door frame. Miter corners as needed.

Install into opening and then back caulk brickmold. For brickmold with nail fin, use appropriate length fasteners through every other pre-punched opening to secure.

**Nail Fin Options**

Snap Nail Fin into appropriate channel.

Install door into opening using appropriate fasteners through every other pre-punched opening in nailing flange. Make adjustments in nail size for different sheathing thickness or applications.

*When DP Rating (Design Pressure Rating) is required to exceed 25 mph, it is recommended to provide additional anchorage in jambs.*
**C. METAL ANCHOR INSTALLATION (OPTIONAL)**

If patio door was ordered with metal anchor block application kit, please follow steps listed below.

If patio door was ordered for a standard installation, proceed to Section D, 'Measure and Prepare Opening' on page 9.

To locate the Residential Coastal Impact Rating FL#, refer to your order or to the Gold NAMI structural label located on the head of patio door unit.

Visit the Florida Building Code website at [https://floridabuilding.org](https://floridabuilding.org), (or the Building Code for your State, County, City, or Municipality). Click on the 'Product Approval', 'Find a Product or Application' tab. Enter your specific FL #. Then find the 'Installation Instruction' link for the specific anchor block placement and spacing.

1. Fasten each anchor using (1) #6 x ¾” Phillips Panhead screw in first hole of the metal anchor block.

2. Insert frame into opening.

3. • If opening wall depth is over 6”, insert the frame with the metal anchors mounted into the opening. Fasten the metal anchor blocks into opening using #8 x 3” installation screws into the first hole.

• If opening wall depth is less than 6”, insert the frame with the metal anchors mounted into the opening. Bend the metal anchor blocks over and onto the face of the interior wall. Fasten the metal anchor blocks into opening using #8 x 3” installation screws into the first hole.
D. MEASURE AND PREPARE OPENING

1. Clean rough opening of all dirt, debris, and obstructions.

2. Check for square by measuring diagonally from corner to corner on each side.

**Important!** A level sill is critical. If sill is not flat, straight, and level, it must be shimmed for proper operation of door.

3. Rough opening should be large enough to accommodate patio door with shims and insulation. The recommended rough opening size is $\frac{1}{4}" - \frac{1}{2}"$ greater per side (or $\frac{1}{2}" - 1"$ greater than in total width) and $\frac{1}{4}" - \frac{1}{2}"$ greater than in total height.

4. Install flashing/pan system to sill area.

5. Apply (2) generous $\frac{3}{8}"$ beads of premium caulking compound in a STRAIGHT LINE, on top of flashing and along entire length of rough opening sill.
E. INSTALL PATIO DOOR FRAME INTO OPENING

If patio door was ordered with nail fin, brickmold, or mullion, see Section B, ‘Accessory Installation Options’ on previous page 7 before inserting into opening.

1

With caulk compound applied, set patio frame into opening, SILL FIRST. It is critical to have a good seal between patio sill frame and floor.

Check diagonal measurements to square door in rough opening. Leave enough space for proper shimming and insulation. Place shims every 12"-18", with 4"-6" space from each corner. Shims must be used at each installation screw where gap is more than \(\frac{1}{16}\)".

DO NOT OVER SHIM DOOR. Over shimming may cause frame to bow, jeopardizing operational performance of door.

3

Install #8 x 3" Phillips screws (Installation Pack #2) through vinyl frame and into stud on each side of jamb only. Header shims and screws will be installed later in Section I, ‘Shim & Secure Header Assembly’, page 14.

In order to prevent water infiltration, DO NOT screw through sill.

4

Confirm frame is square and even with interior wall.
F. INSERT FIXED SASHES

1. From outside, insert the top of fixed sashes into outside track in center of frame. Slide each fixed sash towards jamb, straddling the anchor block on sill and header.

2. When installing the fixed sashes, make sure glazing bead weepholes are at bottom and facing exterior. Weatherstrip will face inside.

3. Slide caps open at top and bottom of both fixed sashes.

4. Insert foam plugs (Installation Pack #3).
   - (1) foam plug into bottom cavity of fixed sash, side facing the center. Detail #1.
   - (1) foam plug into top cavity of fixed sash, side facing the center. Detail #2.
   - (2) foam plugs side by side at bottom of fixed sash, slide fixed sash fully against jamb. Detail #3.

5. Repeat above step for fixed sash on opposite side.
**F. INSERT FIXED SASHES (CONTINUED)**

1. From inside of home, insert top of each active sash into header track, towards the jamb in order to clear the interlock. Then, swing bottom of sash onto the rolling rail.

2. With fixed sashes snug against each jamb, check to make sure both are plumb. Take a height measurement between header and sill next to each jamb. Make sure both sides measure the same before installing first screw.

3. Install (1) #8 x 1” Phillips Panhead screw into hole provided at top of sash. Frame header may need to be pushed up or pulled down slightly while installing first screw to ensure measurements match.

4. Remaining (3) screws will be installed later in Section H, 'Install Remaining Fixed Sash Screws' on page 13.

5. Repeat above step on opposite fixed sash.

**G. INSERT ACTIVE SASHES**

1. Inspect each active sash to make sure weatherstripping is properly seated in the channel and has not slid up or down. Weatherstrip will face exterior.

2. From inside of home, insert top of each active sash into header track, towards the jamb in order to clear the interlock. Then, swing bottom of sash onto the rolling rail.
**G. INSERT ACTIVE SASHES (CONTINUED)**

3. Close sash to check center reveal for squareness.

4. Measure pre-drilled handleset holes for proper alignment of active sashes and hardware.

5. If adjustments are necessary, adjust height and squareness of each sash with adjustment screws located on sash roller at the bottom left and right of each sash. Turn clockwise to raise sash and counterclockwise to lower sash.

   *Unweighting the sash will assist in an upward adjustment.*

**H. INSTALL REMAINING FIXED SASH SCREWS**

1. Insert remaining top screw and both bottom screws to secure fixed sash. Before completely securing screws, check spacing between header and sill for equal distance across full length of frame assembly.

2. Repeat above step on opposite fixed sash.
I. SHIM AND SECURE HEADER ASSEMBLY

1. Place shims approximately every 18". Pre-drill a ¾" diameter hole through the first wall in header frame at each shim. Be careful to NOT drill through entire frame.

2. Install #8 x 3" screws (Installation Pack #2) through each hole to secure frame into wood header. Then, cover each hole with ¾" color matched Flush Hole Plug.

J. INSTALL LEFT & RIGHT WEATHERSTRIP(ANTI LIFT) BLOCK

1. Move active sash to a fully open position.

2. Insert Head Weatherstrip Block into center channel of frame header and slide over to where fixed sash interlock meets active sash interlock.

3. Install Head Weatherstrip Block using (2) #8 x 1¼" Phillips Panhead screws (Installation Pack #4). Front screw (towards center) will be installed first. Back screw (towards jamb) can be accessed by closing active sash. DO NOT over tighten screws.

4. Repeat above steps on opposite sash.
K. INSTALL SASH MULLION

With the widest part of the mullion extrusion facing the inside, slide mullion onto sash (wood blocking is factory installed within the sash). Make sure mullion is centered vertically before securing.

Pre-drill 4 holes into the vinyl mullion using \( \frac{3}{32} \)" drill bit. See illustration above for the approximate location of the pre-drilled holes.

**Pre-drill all holes carefully. DO NOT drill more than 2" deep to avoid penetrating steel reinforcement and glass package.**

Install (4) \#8 x 1\( \frac{3}{4} \)" Phillips Panhead screws (Installation Pack #9). DO NOT over tighten screws.
L. INSTALL MULTI-POINT HANDLESET

NOTE: For additional information, see instructions located inside of hardware box.

1. If handle has keylock, remove 3 tabs from top of key cylinder spindle.

2. Fasten handles to each plate using (2) #10-32 mounting screws provided. Place gasket in base of exterior plate as shown.

3. Position handleset into prepared holes. Align spindle with lock knob on inside handle.

4. Determine the appropriate length screws needed. Use (2) #8-32 to assemble the exterior and interior handleset assemblies to the sash. Confirm hand grip is towards the glass.

5. Repeat steps 2 - 4 for Dummy handle on opposite side.

6. Slide both active sashes together, leaving enough room to align keeper with lock body. Mark vinyl with the location of top and bottom of keeper as aligned with lock body.

7. Center the keeper on the vinyl score and between marks made. Then attach keeper by installing (2) #10 x 1" screws in the elongated screw hole locations. This will allow you to adjust location up and down slightly if needed.

8. Close sashes together, locking and unlocking handle. If needed, adjust the latch bolt and keeper positions until sash latches securely without sash movement or excessive latching effort.

Note: 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.

9. Once adjusted, place final (2)#10 x 1" screws at top and bottom of keeper.
M. INSTALL SASH STOPPER

1. Place sash stopper (Installation Pack #5) in header frame, behind active sash. Placement of the back face of sash stopper to be located according to chart shown this section:

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

2. Fasten sash stopper with (2) #8 x 1 ¼” Phillips Panhead screws (Installation Pack #5). Repeat on other side.

<table>
<thead>
<tr>
<th>Panel Type</th>
<th>Dimension ‘A’</th>
</tr>
</thead>
<tbody>
<tr>
<td>Without Blinds</td>
<td>2 ¾”</td>
</tr>
<tr>
<td>With Blinds</td>
<td>4”</td>
</tr>
</tbody>
</table>

N. INSTALL CENTER HEAD WEATHERSTIP (ANTI LIFT) BLOCK

1. Use Panel Stopper as reference for center point to install Head Weatherstrip Block into header frame. (Installation Pack #4).

2. Install remaining (2) #8 x 1¼ Phillips Panhead Screws (Installation Pack #4).
O. INSTALL PANEL STOPPER

1. Close both active sashes and lock hardware. Slide active sashes left or right until centered with fixed sash interlocks.

2. Unlock and open right sash, be careful not to move left sash position. Use pencil to mark location of left sash onto header frame.

3. Close sash together carefully, be sure left sash stays in position on mark.

4. Open left sash, be careful not to move right sash position. Use pencil to mark location of right sash onto header frame.

5. Open both sashes. Then mark the center point between each mark for the center location of panel stopper placement. Install panel stopper using (2) #8 x 1" Phillips Flathead screws. (Installation Pack #9).

6. Close both sashes together and lock. Check for final fit and proper locking of hardware.

7. Cover screws with (2) Screw Caps (Installation Pack #9).
**P. INSTALL JAMB COVERS AND SCREW CAPS**

1. To install jamb covers, start at top by first inserting edge closest to sash. Using your thumb, apply slight pressure to the top edge of cover closest to you, snapping into place. Apply continuous pressure, running your thumb along edge from top to bottom of cover to complete install. Repeat on opposite jamb side.

   **NOTE:** Laminated Woodgrain jamb covers will take more applied pressure to insert into jamb cavity as material is thicker.

2. Cover each screwhead with Screw Cap Cover on each fixed sash (Installation Pack #3).

**Q. INSTALL FOOT LOCK**

NOTE: Optional feature on both Endure and Aspect.

1. Close active sash and lock handle. Visually locate horizontal position of foot lock (Installation Pack #6) so that foot lock will sit directly above keeper and will engage into first hole closest to jamb.

2. Top of foot lock body must be a minimum of $\frac{15}{16}$" from top of sash rail. Install foot lock using (4) #8 x $\frac{3}{4}$" Phillips Ovalhead screws (Installation Pack #6).

*Keeper will be Factory Mounted*
**R. INSTALL ACCUVENT VENTING SYSTEM BOLT PLATE**


1. Close active sashes and lock handle.

2. Flip AccuVent Lever down into locked position.

3. Place Bolt Plate into header beside bolt and slide over until it contacts bolt. Back off ¼" to provide slight clearance.

4. Pre-drill a ¾" or ⅜" and install (2) #8 x 1" screws provided. DO NOT over-tighten screws.

5. Repeat above steps on opposite active sash.

**S. INSERT SCREEN**

1. Locate wheel brackets (Installation Pack #10). One pack for the right screen, one pack for the left screen (identified by Outside Looking In).

2. **Right Screen:** From center, insert right bracket and slide towards right jamb. Insert left bracket and leave hanging towards center.

   **Left Screen:** From center, insert left bracket and slide towards left jamb. Insert right bracket and leave hanging towards center.
**S. INSERT SCREEN (CONTINUED)**


4. Lift screen and position bottom of screen over sill glide track.

5. Insert left and right wheel bracket tabs into grooves located on screen.

6. Attach wheel brackets using a #2 Phillips Head Screwdriver and #6-32 x \( \frac{7}{8} \)" Phillips Flathead screws (Installation Pack #10)

   *DO NOT use excessive torque on the bracket screws.*

7. Repeat for the opposite screen.
T. ADJUSTMENT OF SCREEN

There are (3) screws located in each Inner Track. Adjust the Left and Right screws until screen is parallel to jamb. Each complete turn of the screw will raise or lower the track by $\frac{1}{32}$”. Once screen placement is established, align center screw to match.

Repeat this step on opposite screen. With both screens adjusted, check for parallel alignment to both jambs and to each other.

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.

U. ADJUSTMENT OF SCREEN KEEPER
NOTE: Screen Latch and Keeper are Factory mounted.

After screen placement has been adjusted, check for proper operation. Screen latch should hook underneath latch keeper. Latch should always “unlatch” while pushing downward on slide.

Adjust keeper up or down as necessary.
## V. INSULATE AND SEAL

Insulate by using an AAMA approved ASTM C 1620 Low-Expanding Foam to fill cavities between patio frame and opening.

*Over use of Low-Expanding Foam or use of any non Low-Expanding Foam may cause vinyl frame to bow, jeopardizing operational performance of door.*

Trim all shims flush with patio frame. Then caulk and finish exterior of door to ensure water tightness between rough opening and door.

### TROUBLESHOOTING & TIPS

<table>
<thead>
<tr>
<th>PROBLEM</th>
<th>SOLUTION</th>
</tr>
</thead>
<tbody>
<tr>
<td>Door is difficult to operate.</td>
<td>Measure distance between sill and header at each jamb and several locations in between. If measurements are not equal, the sill could be crowning or the header could be sagging. This can cause the Head Weatherstrip Blocks to put to much pressure on the sash making it difficult to operate. Adjust shims and screws in header.</td>
</tr>
<tr>
<td>Handleset is difficult to lock.</td>
<td>Check Latch Bolt adjustment according to page 16. Also, latch the door for a period of time to allow the weatherstrip to compress. Operation will ease with time.</td>
</tr>
<tr>
<td>Movement or play within active sash locations (sashes appear to be to wide)</td>
<td>Install Panel Stopper according to Section O, 'Install Panel Stopper', page 18.</td>
</tr>
<tr>
<td>Visible daylight above the sash mullion.</td>
<td>Reposition the mullion. Remove screws and re-mount in a higher position along secondary active sash. All other adjustments to sash should be made before repositioning the mullion.</td>
</tr>
</tbody>
</table>