INSTALLATION INSTRUCTION MANUAL

VINYL FIXED CASEMENT WINDOW WITH NAIL FIN

(ASPECT™ & 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

ProVia®
THE PROFESSIONAL WAY

GETTING STARTED

TOOLS & MATERIALS YOU WILL NEED

- Tape Measure
- Pencil
- Shims
- Drill & Drill Bits
- Utility Knife
- High Quality Silicone Caulking in accordance with ASTM C920, Class 25 & Caulking Gun
- AAMA approved Low-Expanding Window Insulation Foam in accordance with ASTM C1620
- Putty Knife
- Square
- Level
- Hammer or Mallet
- (1) Box Stainless Steel or Galvanized Roofing Nails
- Adhesive Flashing Tape in accordance with ASTM D779
- Weather-Resistant Barrier Paper

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).

ASPECT™ & ENDURE™ VINYL FIXED CASEMENT CONTENTS

NOTE: Please refer to information below for assembly and installation contents.

Assembly Contents

Vinyl Window Unit (3¼" Main Frame Depth) with Nail Fin

OPTIONS:

- Integral Nail Fin, Extruded into Window Frame
- Applied Nail Fin, Factory Attached with Corners Welded
- Applied Nail Fin, Shipped Loose
- Applied Nail Fin with J-Channel, Factory Attached with Corners Welded
- Applied Nail Fin with J-Channel, Shipped Loose
- Applied Brickmold Nail Fin w/ J-Channel (3 Sides with Sill Brickmold) - Shipped Loose
- Applied Brickmold Nail Fin w/ J-Channel, (All 4 Sides) - Shipped Loose

MULLION KIT: (Only included when field mulling is necessary): *(Refer to separate instruction)*

- Zero Mull Rebar, Part #: S-AE-4710-00
- Zero Snap Mulls, Part #: S-VE-4492-CC
- Header Cover, Part #: S-VR-462-CC (Flat with Nail Fin)
- Stacking Plate Pack, Part #: S-HG-604P-00

Installation Pack

S-HS-515S-CC
(CC = Color Code)

(6) ⅜" Low Profile Hole Plug, (Color Matched), Part #: S-HG-698-CC



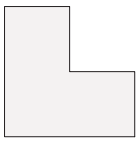
(6) #8 x 2" Phillips Pan Head Screws, Part #: S-HS-046-00



Accessory Installation Pack

S-HG-330S-00

(4) Nailing Fin Corner Seal Pads, Part #: S-HG-330-00



(16) #6 - 20 x 3/8" Phillips Pan Head Screws, Part #: S-HS-771-00
(Used for AERIS window units ONLY)



WINDOW INSTALLATION GUIDELINES

- Windows achieve maximum performance from proper installation methods. It is critical to maintain consistent margins between sash and master frame.
- A window gains strength from the surrounding wall structure. This is obtained with proper sizing, support and installation methods.
- Use a high quality grade of silicone with a neutral base.
- Approved sealants for this use must meet the requirements of ASTM C920, Class 25.
- The plastic applied to UV resistant paint finish windows is for the protection of the paint finish and should remain on the window until the installation is complete.
- **DO NOT OBSTRUCT WEEP HOLES** with flashing or sealant. The weep holes located at the bottom sill area of window are necessary to prevent water accumulation. Covering or applying trim to the product will need to allow for proper drainage. Failure to do so will create a risk of water infiltration.
- Windows should be stored in a cool location. **DO NOT** store in direct sunlight or in non-vented hot containers.
- **IMPORTANT!** Allow for expansion and contraction of the window unit when contacting exterior finish material. For installation of the finished exterior material surrounding the window, scan or tap the QR code shown for all gap recommendations per exterior material type.
  THIS INFORMATION MUST BE PASSED TO THE EXTERIOR FINISH INSTALLER.
- Window flashing must be used with all window installations to prevent air and water infiltration. Flash all windows in accordance with the ASTM E2112 standards (method A1, shown in this instruction). Use adhesive flashing in all applications or conform to local code.
- All flashing material must be waterproof in accordance with ASTM D779. Use a roller over the applied tape to ensure full adhesion and no voids.
- All flashing and weather resistant barrier (house wrap/building paper) materials must be installed in a weatherboard fashion. Install and layer starting at the bottom and work upward.
- Fasteners for securing the nail fin of the window must be non-corrosive galvanized roofing nails or pan head screws. Nails should be at least 1¾" in length with the head of the roofing nail wide enough to cover the pre-punched slot of the nailing fin. The roofing nail must be able to penetrate the framing material by at least 1". Pan head screws should be at least 1¾" in length and should NOT deform the nail fin.
- **DO NOT INSTALL** new construction nail fin onto foam.
- **DO NOT INSTALL** roofing nails into nailing fin with an air gun or pneumatic device. Doing so will cause distortion or fracture of the nailing fins. All nailing fins must be secured by hand through the pre-punched nailing holes.

⚠ IMPORTANT INFORMATION!

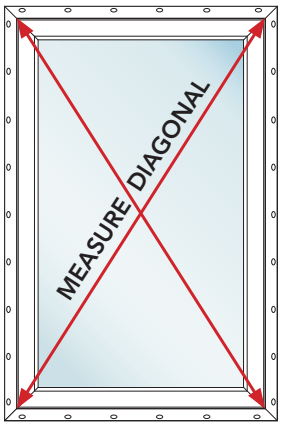
• ProVia® understands there are various methods and conditions affecting the installation of a replacement window. We feel the most critical steps to follow are securing and shimming as instructed in this document.

FIELD MULLED WINDOW UNITS:

• Refer to the separate document, "Field Instruction For Mulling Vinyl Windows". Units must be mulled together before window unit is set into the opening.

A. INSPECT AND PREPARE VINYL WINDOW UNIT

INSPECT WINDOW AND SCREEN



(Figure A.1)

MULLED UNITS WITH FACTORY INSTALLED HEADER COVER



(Figure A.2)

⚠ ***IMPORTANT!*** ***For window units with painted exterior, DO NOT remove the protective plastic cover until after installation is completed.***

For units to be field mulled, refer to the included document, "Field Instruction for Mulling Vinyl Windows". After mulling is complete, resume this instruction to complete Sections B - F.

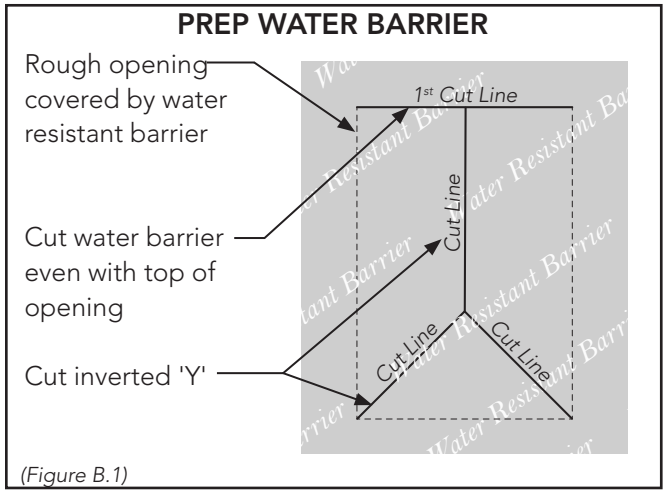
For factory mulled units with a factory installed header cover, if decision is made to wrap cladding with termination into the unit's top accessory groove and the header cover is removed, it is then the responsibility of the installer to provide the adequate protection required to avoid any leakage issue at mulled joint location(s). Joint(s) MUST BE fully sealed.

1. Inspect new window unit for any material damages. Scan the product packaging QR Code label to access ProVia's **After Sale Product Support** to enter a request and post pictures to order, or call the Customer Support Team.

2. Check for overall square of window unit by measuring diagonally from corner to corner, each side. *Recommended tolerance for the diagonal measurement is ⅛". (Figure A.1)*

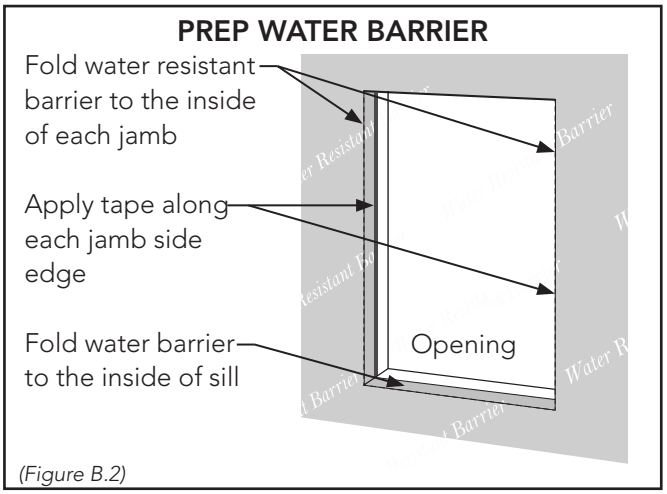
3. For factory mulled units with the header cover factory applied, the top nail fin holes must be drilled or punched out from the interior side (back side) of the nail fin with an approx. 3⁄16" hole through all existing holes and through the head cover. Be sure to elongate each hole to match the nail fin slot, allowing for installation adjustments. *(Figure A.2)*

B. WATER RESISTANT BARRIER



(Figure B.1)

1. If water resistant barrier is covering window rough opening, cut as follows to expose opening.
   a. Cut the water barrier even with the top edge of the rough opening.
   b. Cut the water barrier at an inverted 'Y' in center of rough opening, each leg at a 45° angle to corner, as illustrated. *(Figure B.1)*

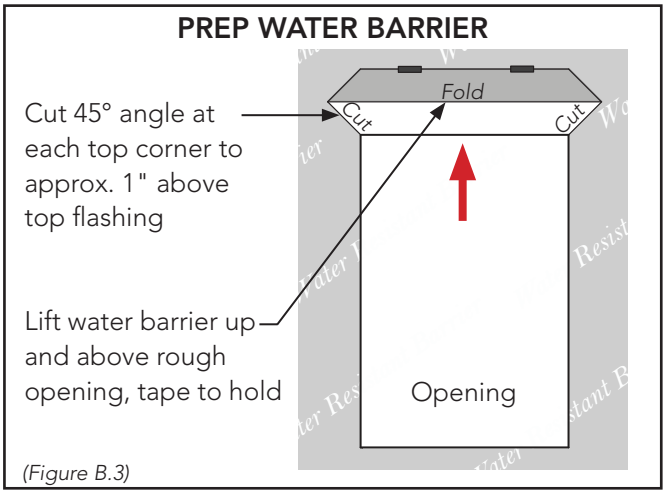


(Figure B.2)

2. Fold the water resistant barrier to the inside of each jamb side and sill. Trim each flap to center of jamb. *(Figure B.2)*

3. Apply adhesive flashing tape to the water resistant barrier cut edge at each jamb side to seal edges. *(Figure B.2)*

   NOTE: DO NOT apply tape to the top or bottom cut edge of the water barrier until noted in the instruction.



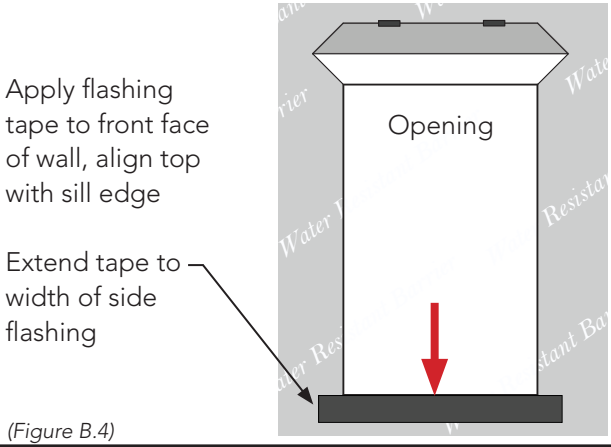
(Figure B.3)

4. Cut a 45° angle in the water resistant barrier at each top corner. Cut should extend approximately 1" above the head flashing tape (to be installed in later step). *(Figure B.3)*

5. Lift the water resistant barrier flap up and away from rough opening. Apply adhesive tape to hold in place, as illustrated. *(Figure B.3)*

B. WATER RESISTANT BARRIER *(CONTINUED)*

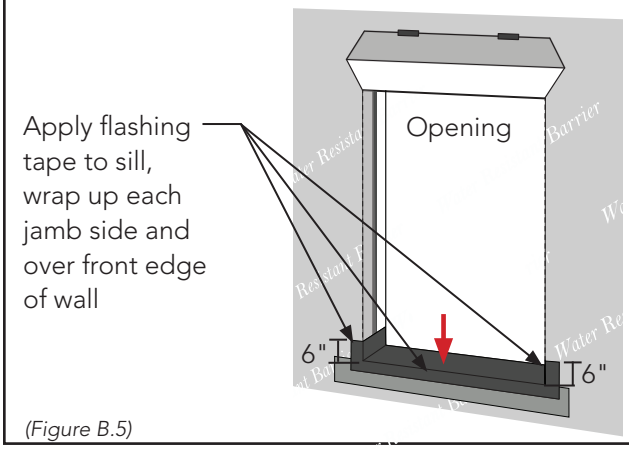
EXTERIOR FLASHING TAPE



(Figure B.4)

6 Apply adhesive flashing tape to the front face of wall, below sill. Top of tape should align with the sill edge. Extend each end of the flashing tape to width of side flashing (to be installed in a later step). *(Figure B.4)*

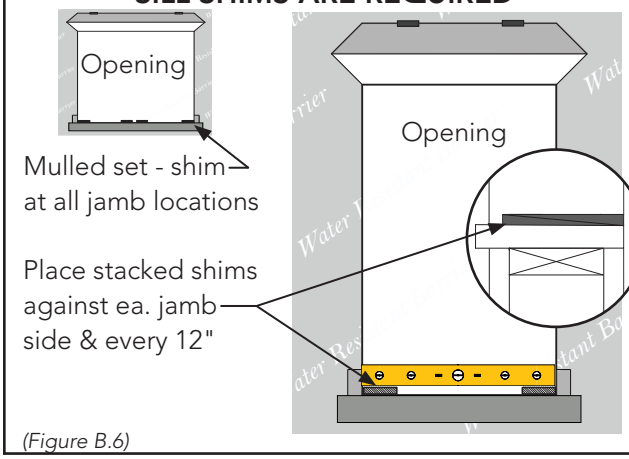
EXTERIOR FLASHING TAPE



(Figure B.5)

7 Apply adhesive flashing tape to the sill. Tape should begin and end approximately 6" above sill on each jamb side. Be sure to wrap tape over the front edge of wall, as illustrated. Wrapping tape will seal and protect wood from moisture leakage. *(Figure B.5)*

SILL SHIMS ARE REQUIRED



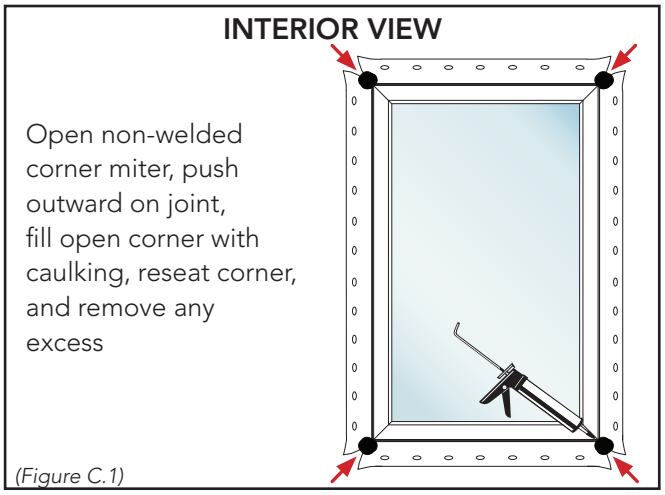
(Figure B.6)

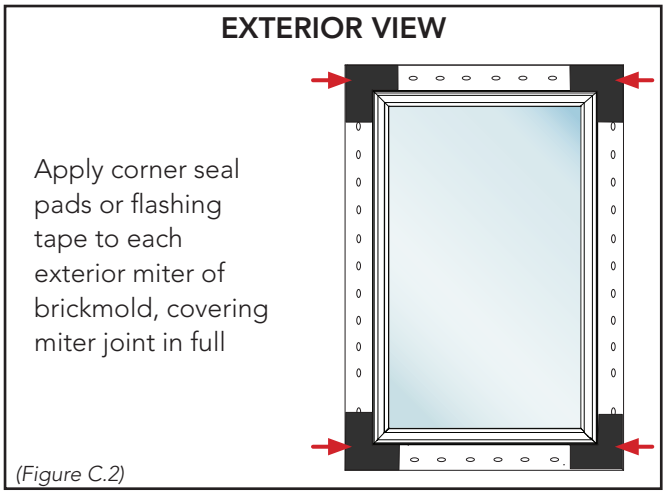
8 Place and level shims on the sill, (1) against each jamb side of opening. Shims will provide support to window jambs and level window sill. Be careful shims DO NOT tilt sill toward inside of home. For mulled sets, place shims under all side jamb locations. *(Figure B.6)*

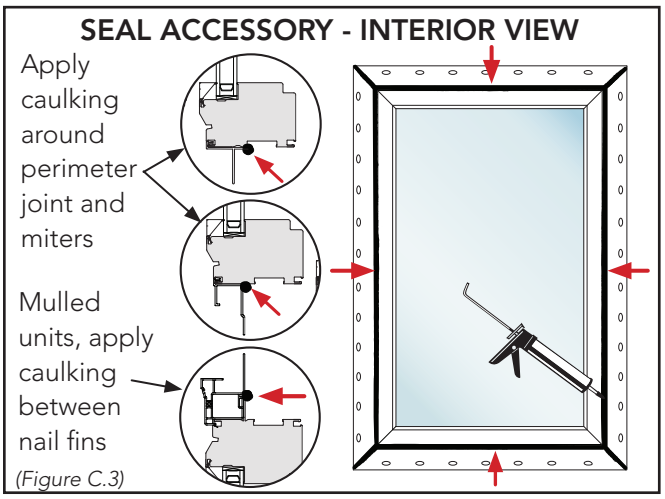
NOTE: If foam wrap is used under sill, shim thickness **MUST** be increased to prevent foam wrap from crowning the sill.

NOTE: DO NOT OVER SHIM below jamb sides. This will cause unit head to press tightly against opening head, leading to vinyl expansion issues.

C. PREP ACCESSORY AND SET WINDOW UNIT







1. **For window with Integral Nail Fin**, the exterior accessory groove will be exposed. Proceed to **Step 7**.

2. **For an accessory (nail fin with J-channel, or brickmold with J-channel)** that is factory applied or shipped loose, the accessory will occupy the exterior accessory groove. Proceed to **Step 3**.

3. If the vinyl accessory is shipped loose, apply at this time. For specific instructions on all snap-in accessories and for the brickmold with J-channel, refer to "Field Instruction for Window Accessory Installation" QR code on back of this instruction.

4. For mulled units and units with a field installed vinyl accessory, open the non-welded corner miter by pushing outward on joint. Fill the open corner with caulking. Reseat the corner and remove any excess. Repeat on all (4) sides. *(Figure C.1)*

5. Apply corner seal pads (pack #: S-HG-330S-00 - *note, screws from pack will not be used*) or adhesive flashing tape to each exterior corner miter of the vinyl accessory. Be sure to cover miter fin joint in full. *(Figure C.2)*

6. Apply a bead of caulking along interior side of each closed corner miter to seal. *(Figure C.3)*

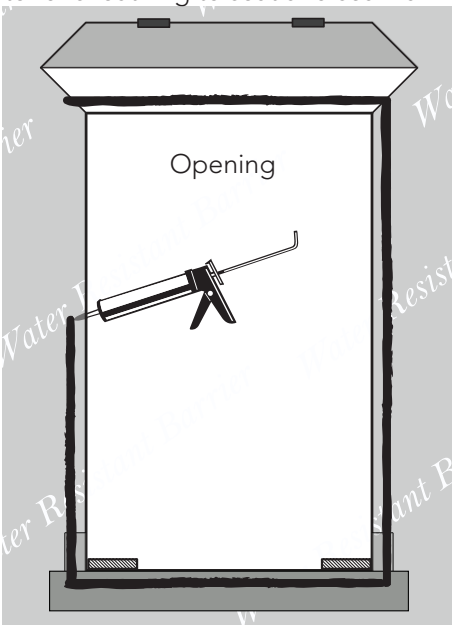
7. Apply a bead of caulking around entire inner perimeter joint, where accessory meets the frame, for a complete seal. *(Figure C.3)*

NOTE: For mulled units using integral nail fin with J-channel, apply a bead of caulking around entire perimeter joint, where the end of the integral nail fin meets the backside of J-channel, as shown. *(Figure C.3)*

C. PREP ACCESSORY AND SET WINDOW UNIT *(CONT.)*

APPLY CAULKING TO OPENING

Apply a generous bead of caulking to the exterior sheathing to seat and seal nail fin



(Figure C.4)

8 Apply a generous ⅜" bead of continuous caulking to the exterior sheathing to seat and seal nail fin when installed. *(Figure C.4)*

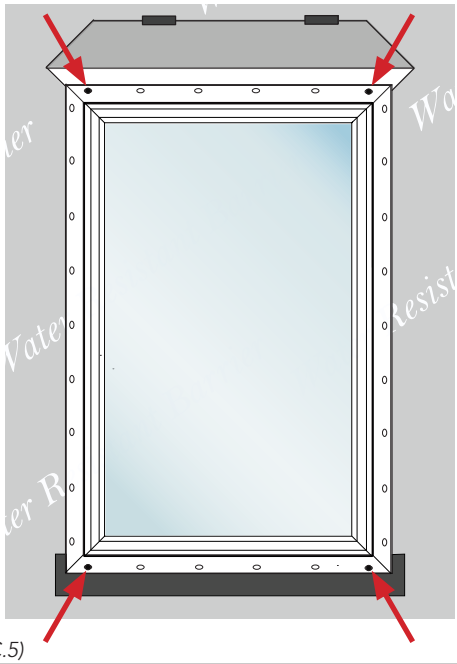
NOTE: Option to apply a ⅜" bead of continuous caulking to the back side of the nail fin to form a complete seal to sheathing.

9 Place window unit into opening and onto sill shims. Center and square unit within opening. Push nail fin against sheathing and water resistant barrier to bed window unit, forming a tight seal between window and water barrier. *Install window unit immediately after the caulking is applied and before a skin forms on caulking's surface.*

NOTE: If top of window is against top of opening, reduce height of bottom shims. Shims are still required below sill as specified.

FASTEN NAIL FIN CORNERS

Use horizontal slots



(Figure C.5)

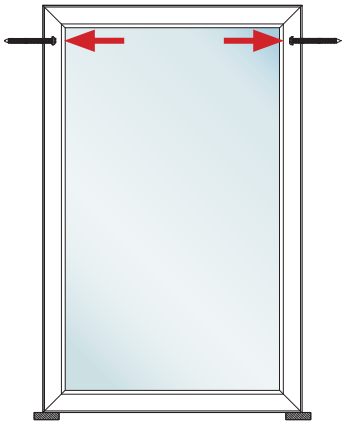
10 After sill is shimmed, levelled, and preliminarily squared; install a fastener into the horizontal slot at each nail fin corner to secure unit in place. **DO NOT OVER TIGHTEN FASTENER.** This will allow for adjustment in following steps.

NOTE: DO NOT use power tool to install fasteners.

D. INSTALLATION

SECURE - INTERIOR VIEW

Install screw in each top screw location



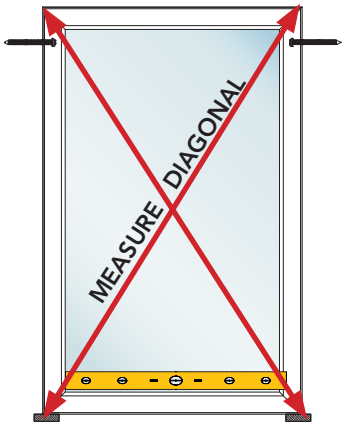
(Figure D.1)

1 Install #8 x 2" Phillips pan head screw into each factory prepped TOP jamb screw location to hold in place. **DO NOT OVER TIGHTEN screws causing frame to pull!** *(Figure D.1)*

ADJUST - INTERIOR VIEW

Check for overall square, adjust screws as needed

Check sill for level



(Figure D.2)

2 Check for overall square of window unit by measuring diagonally from corner to corner, each side. Adjust top jamb screws and shims as needed. *Recommended tolerance for the diagonal measurement is ⅛".* *(Figure D.2)*

NOTE: DO NOT OVER SHIM below side jambs. Over-shimming will press unit head tight against opening head, resulting in vinyl expansion issues.

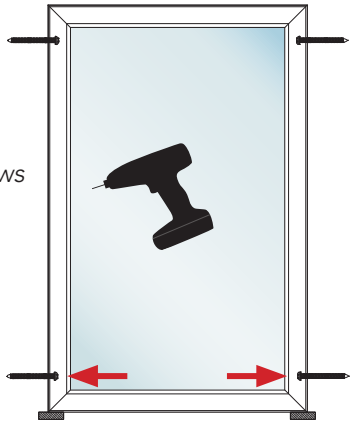
⚠ ***IMPORTANT! Shims can be installed prior to installation of screws. It is critical to monitor frame alignment throughout this installation method.***

SECURE - INTERIOR VIEW

***Continuously monitor alignment**

Additional center screws may need added

Install screw in each bottom screw location



(Figure D.3)

3 Install #8 x 2" Phillips pan head screws in BOTTOM factory prepped jamb screw locations. **DO NOT OVER TIGHTEN SCREWS!** *(Figure D.3)*

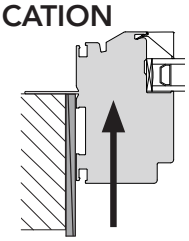
NOTE: If spacing between jamb screws is greater than 31", additional jamb screws may need added to stabilize frame. Pre-drill a ⅛" thru-hole followed by a ⅜" hole through second wall of frame.

D. INSTALLATION *(CONTINUED)*

SHIMMING APPLICATION

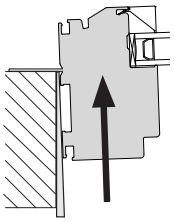
CORRECT

Flat shims or wedge shims stacked to create a flat plane will result in equal margins



NOT CORRECT

A wedge shim will cause frame to roll resulting in unequal margins

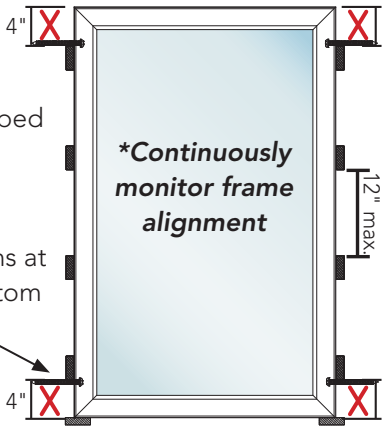


(Figure D.4)

SHIMMING - INTERIOR VIEW

Place stacked shims next to factory prepped screw locations

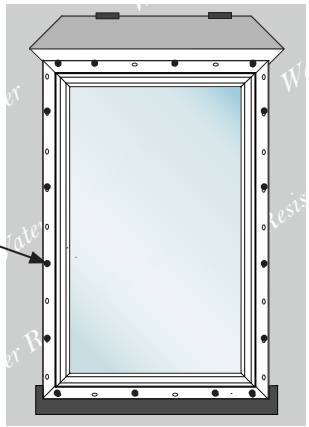
DO NOT place shims at top header and bottom sill locations



(Figure D.5)

SECURE NAIL FIN

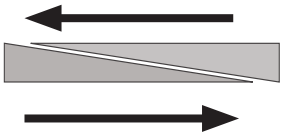
Install fasteners in every other pre-punched hole



(Figure D.6)

IMPORTANT! ***Shimming as instructed in Step 4 is critical to maintain stability of frame.***

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. (Figure D.4)*



4 Place shims next to all screw locations. **DO NOT PLACE SHIMS WITHIN 4" OF TOP OR BOTTOM CORNERS.** This will cause frame distortion. If spacing between side jamb shims is greater than 12", additional shims may be needed to stabilize frame. *(Figure C.5)*

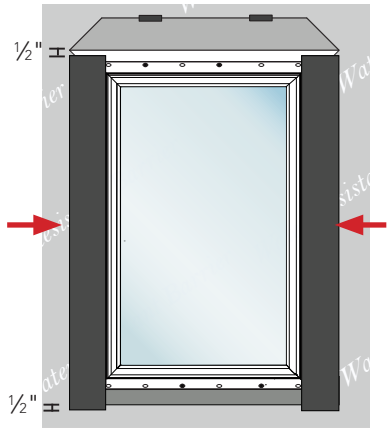
5 Final check on frame alignment. Adjust shims and screws as needed to achieve and maintain equal and straight alignment, all sides.

6 Install fasteners in pre-punched nail fin holes, all (4) sides. Install fasteners in every other hole or as needed to keep nail fin flat. **DO NOT OVER TIGHTEN.** *(Figure D.6)*

E. FLASHING

EXTERIOR JAMB SIDE FLASHING TAPE

Begin jamb side tape ½" below where top edge of top head tape will be, stop ½" above bottom sill tape edge



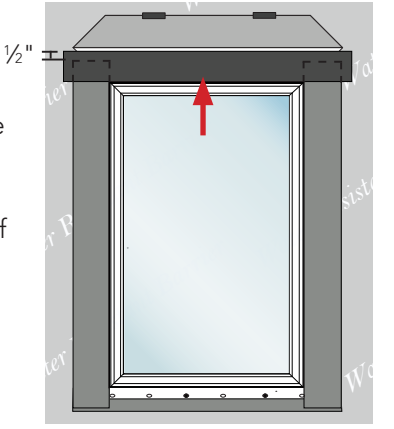
(Figure E.1)

1. Apply adhesive flashing tape to each jamb side. Begin top of the side flashing approximately ½" below where the top edge of header flashing will be placed (Refer to Step 3). Stop the bottom of the side flashing approximately ½" above bottom edge of front face sill flashing. *(Figure E.1)*

NOTE: If window unit has snap-in nail fin, wrap tape onto the window frame, approximately ¼".

EXTERIOR FLASHING TAPE

Apply flashing tape to the header. Top of head flashing to be ½" above top of side flashing



(Figure E.2)

2. Apply adhesive flashing tape to the header. Place top of the head flashing approximately ½" above top of the side flashing. Extend each end of the head flashing approximately 1" beyond side flashing. *(Figure E.2)*

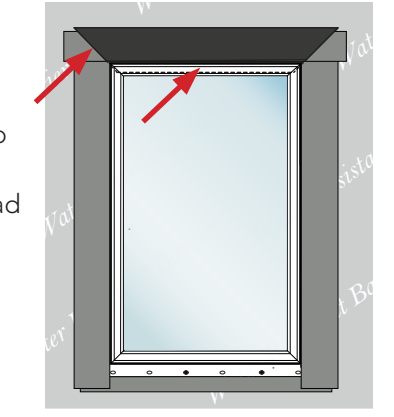
NOTE: If window unit has snap-in nail fin, wrap tape onto the window frame, approximately ¼".

EXTERIOR FLASHING TAPE

Remove tape holding water resistant barrier flap

Lower flap over head flashing

Trim flap if needed



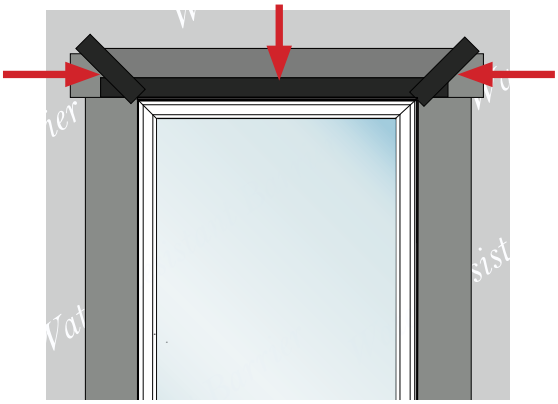
(Figure E.3)

3. Remove tape holding the water resistant barrier flap above header. Lower flap over header flashing. Trim to top of window frame if needed. *(Figure E.3)*

E. FLASHING *(CONTINUED)*

EXTERIOR FLASHING TAPE

Apply flashing tape to bottom edge of water barrier
Tape each 45° corner



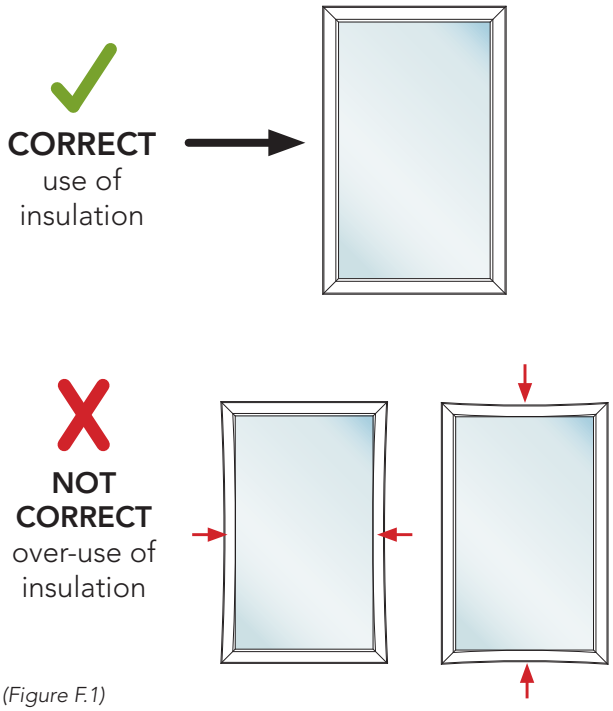
(Figure E.4)

4. Apply adhesive flashing tape to bottom edge of the water resistant barrier flap. *(Figure E.4)*

5. Apply adhesive flashing tape to each 45° corner of the water resistant barrier for a complete seal. *(Figure E.4)*

F. INSULATE

LOW-EXPANDING FOAM - MARGIN CHECK



(Figure F.1)

1. Install hole plugs into all jamb screw locations.

⚠ ***IMPORTANT!*** ***Section D MUST be complete before application of foam insulation.***

2. Insulate by using an AAMA approved ASTM C1620 low-expanding foam to fill all cavities between frame and opening. ***Over use of low-expanding foam may cause frame to bow. (Figure F.1)***

3. If **MasterFit™ Trim** is ordered, **DO NOT** nail trim to jamb extension. Refer to QR code on back for measuring assistance.

TROUBLESHOOTING & TIPS

PROBLEM	CAUSE	SOLUTION
Frame racked or out of square	Improper or no shims below the side jambs.	Re-shim window unit per this instruction.
Sill bows downward	Shims are installed below each jamb side but not in center.	Add shims to sill per this instruction.
Sill bows upward	1. Over insulated below sill. 2. Exterior trim is tight against window, not allowing for vinyl expansion in the heat. 3. Jamb side shims placed too close to bottom of unit, not allowing for vinyl expansion in heat. 4. Insufficient shimming under jambs when foam wrap is used under sill.	1. Remove foam. Re-square and level window unit. Refer to this instruction for proper insulation procedure. 2. Refer to "Installing Exterior Veneers to Windows" QR code at end of this instruction 3. Remove shims at bottom sill locations. Shim per this instruction. 4. Re-shim window unit per this instruction.
Header bows downward	1. Excessive foam or over insulating above header. 2. Jamb side shims placed too close to top of unit, not allowing for vinyl expansion in heat.	1. Remove foam above header. Re-foam per this instruction. 2. Remove shims at top header locations. Shim per this instruction.
Window leaks water at accessory corners	1. Improper or no caulking on interior side of accessory corners. 2. Improper or no caulking at accessory to frame joint.	1 - 2. Caulk accessory per this instruction.
Water leaks on multi-level mulled units	Missing or improper caulking behind exterior mull strip at T-joint or cross joint.	Caulk zero snap mulls. Refer to the "Field Instruction for Mulling Vinyl Windows" QR code below.
Condensation is present on inside or outside glass of window	Various normal conditions/reasons.	Refer to "Condensation, Humidity and Dew Point Temperature" QR code below for a detailed explanation of normal condensation conditions.

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

For additional information and helpful videos, SCAN or TAP the QR Codes.

VISIT OUR INSTALLATION SUPPORT HOMEPAGE

Field Instruction Mulling Vinyl Windows (Aspect & Endure)

Field Instruction for Window Accessory Installation

Install. Instruction Vinyl Window Stacking Plate #604

Measuring Instruction MasterFit™ Trim

Installing Exterior Veneers to Windows

Condensation, Humidity and Dew Point Temperature

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2150 State Route 39, Sugarcreek, OH 44681
Phone: 330.852.4711 • Fax: 877.735.2057
provia.com