

IMPORTANT! READ ALL INSTRUCTIONS BEFORE BEGINNING INSTALLATION

INSPECT UNIT FOR DAMAGE, CORRECT SIZE, TYPE, AND CORRECT INSTALLATION INFORMATION FOR YOUR APPLICATION BEFORE INSTALLING THE WINDOW. IF THERE IS A PROBLEM WITH ANY OF THESE AREAS, CONTACT YOUR SIMONTON DISTRIBUTOR BEFORE INSTALLING. SIMONTON ACCEPTS NO LIABILITY FOR DAMAGES BY OTHERS AND MUST BE REPORTED IMMEDIATELY.

CAUTION: Some areas that are designated as high wind or wind-borne debris areas may require additional or special anchorage in order to comply with local and state building codes. Please consult your local Code Official for certified instructions regarding the installation of this product.

Follow your local building codes, customs and building practices for additional installation requirements. The quality of installation can and will affect the performance of this product. Flashing applications will vary greatly with respect to the wall type and region. The manufacturer is not responsible for air or water leakage above, under, or around the window unit. Accessories are available, but not required, to ease the installation and finishing of the window. For more information on accessories and their applications, contact your distributor. These instructions are general in nature; for detailed installation instructions by product, contact Simonton Windows & Doors by Ply Gem at 1-800-SIMONTON (800-746-6686) or visit simonton.com/installation.

TOOLS NEEDED

- Tape Measure
- Small Rubber Mallet
- 3/32" Drill Bit (masonry bit when applicable)
- 4' Level
- Pry Bar
- Caulk Gun & Color-matched Silicone Caulk (structural sealant when applicable)
- #2 Phillips Bit (4" in length)
- Cordless Screw Gun
- #3 Phillips Screwdriver
- 1/8" Drill Bit (4" in length)

- Begin by measuring the rough opening. The window should have 1/4" and no more than 1/2" around the perimeter of the unit and must be installed plumb, level and square, even though the opening may not be any of these. This size may vary depending on the window opening.
- Prepare the opening to receive the window. Install flashing to provide a water-resistant installation and to satisfy requirements of the local building authorities based on the type of wall. The Manufacturer is not responsible for the specification, selection and/or installation of any required flashing, waterproofing, sealant, etc. and recommends that the specification, selection and installation of these materials be coordinated with the type of wall construction provided. The window is to be properly integrated into the system to provide a water-resistant installation. For flashing installation recommendations, consult the applicable ASTM and AAMA standards and guidelines or manufacturers' guidelines specific to the project's flashing.
- The mounting flange of the window must be sealed with the proper exterior grade of sealant and flashing, per building code specifications, to prevent air and water infiltration around the window. The proper grade material will depend on the surface the mounting flange will be sealed against. Always make sure that the material used, including the house wrap, flashing sealant, etc., are compatible. Please consult the manufacturer of the materials to confirm they will adhere properly.
- Run a continuous minimum 3/8" bead of sealant around the inside perimeter of the mounting flange aligned with pre-punched holes. (Fig. A)
- To maintain a 1/4" nominal spacing on all sides of the window which will allow for fluctuations in building materials and the window unit, place shims at each corner of the rough opening where the jamb meets the sill plate. Shims should also be used at mull locations on combination windows and at the meeting rail on horizontal sliding windows. With the sash closed and locked and the window centered from side to side in the opening, insert the window from the outside and rest it on the shims. Shims may remain as needed. (Fig. B)

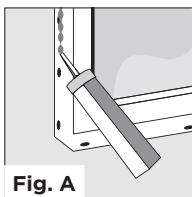


Fig. A

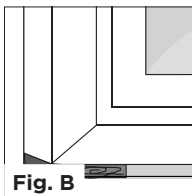


Fig. B

- Use a corrosion-resistant fastener with a minimum head size of 5/16" or larger that will penetrate a structural framing member at least 1". See fastener schedule on these instructions. Begin by inserting the fastener in the pre-punched hole in the top corner of the mounting flange. (Fig. C)

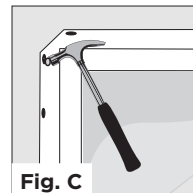


Fig. C

Reference Chart A - Fastener Schedule for New Construction Vinyl

Check that the window is plumb, level and square in the opening and then fasten the bottom opposite corner at sill.

- To check plumb: Place a level vertically on both the interior and face of the left and right jambs. If the bubble indicator is centered, the unit is plumb. (Fig. D)
- To check level: Place a level along the sill. If the bubble indicator is centered, the unit is level. (Fig. E)
- To check square: Measure window frame diagonally. Measure from the top left corner of the frame to the bottom right corner and from the top right to bottom left. If the measurements are equal, the window is square. (Fig. F) You can also check the squareness by closing the sash to the point where it just meets the head or sill. If both sides of the sash meet the head or sill at the same time, the window is square.

Check plumb

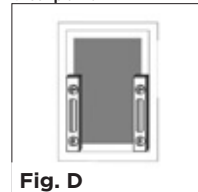


Fig. D

Check level

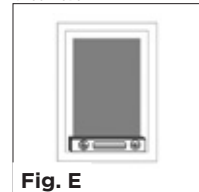


Fig. E

Check square

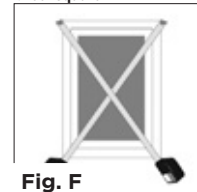


Fig. F

NOTE: When installing Casements, replace one screw in each tie bar guide on the lock side of the window with installation screws. (Fig. G) After the window is secured, recheck the sash operation and the weather seals. Left and right hinge Casements have an adjustment on the upper and lower hinge tracks which allows you to move the sash left and right. This adjustment can be used to help square the sash within the frame to correct uneven reveals between sash and frame or to address interference issues with the locking hardware. A slim line adjustment wrench is available from Simonton or a standard 3/8" open end wrench can be used but will require that the hinge arms be removed from the adjustment posts in order to access the adjustment cam. A 7/64" hex head wrench can also be used on certain hardware. (Fig. H)

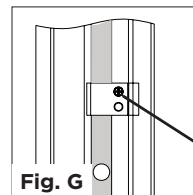


Fig. G

- Measure the unit diagonally in both directions to ensure the squareness of the window. (Fig. F) If the window is out of square or the sill is bowed, the interlocking meeting rail may not seal properly allowing air and water infiltration—even if the sash locks.
- Check the sash where they meet the jambs to be certain the reveals are even. If there are any uneven reveals (gaps), shim accordingly. To complete the anchoring of the unit insert fasteners in a minimum of every other pre-punch nail hole. Remove shims as necessary.

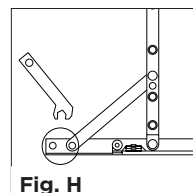


Fig. H

NOTE: If the jambs are adjusted too far in or out, the sash pivot bar could bind and cause the sash to become inoperative or prevent the weatherstripping from sealing properly, allowing air and water infiltration.

- Loosely pack insulation around the window frame, on the interior, between the frame and the opening. Use of low expansion spray foam insulation is acceptable as long as it meets AAMA 812 specifications.
- Finish the exterior of the window. Leave a 1/4" gap between the wall finish material and the window frame to allow for fluctuation and expansion of materials. Seal the gap with elastomeric sealant and backer rod when necessary. Be sure to use the proper grade of sealant to seal the entire perimeter of the window. Do not leave any gaps where water or outside elements can

penetrate into the home. Use common sense to complete the exterior. Seal all areas that are prone to air or water infiltration. Please note, it is important to protect the window from any harmful brick cleaning solutions.

NOTE: Make certain that the weeps on the outside of the window are open and that water can drain from the sill and out of the weeps. (Fig. I)

- Make certain the sash open, close and lock properly. Operable slider sash should lift out freely. Finish off the interior of the window.
- Manufacturer is not responsible for inspecting installation of product. Thoroughly clean the window and remove all debris from the job site. Be sure the homeowner is familiar with the proper operation, features and documentation of the window. (For example, the NFRC Label & Warranty)

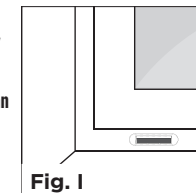


Fig. I

CARE AND CLEANING

Do not paint weatherstripping or any vinyl parts of this unit for any reason. Painting vinyl will render null and void any remedies available under the Limited Warranty for this product. Do not use abrasive cleaners, organic solvents, adhesive removers or other aggressive ingredients when cleaning vinyl surfaces as these may affect the surface appearance. For complete care and cleaning guidelines visit simonton.com/maintenance.

Chart A

FASTENER SCHEDULE FOR NEW CONSTRUCTION VINYL	
Distance from window corners	Maximum 3" from the corner
Bldg framing penetration	1" min. (local code may dictate)
Min. corrosion-resistant nail size	5/16" minimum head diameter
Min. corrosion-resistant screw size	#6 or larger

For metal studs, a minimum of three (3) threads per fastener must penetrate the framing member.

