



 **SIMONTON**
StormBreaker Plus[®]
3 0 0 V L

WINDOW

INSTALLATION INSTRUCTIONS



100220114001

Simonton StormBreaker Plus® Vinyl Window Products

IMPORTANT INFORMATION FOR COASTAL REGION INSTALLATIONS: Note that the following installation recommendations reflect the performance requirements (Missile D) as tested for product installations in coastal regions. For Florida installations, please reference the appropriate Florida product approval number as listed on the temporary NFRC label. For additional anchorage requirements for installations in Florida, please reference (www.floridabuilding.org). For additional anchorage requirements for installations in the Texas, please reference (www.tdi.state.tx.us).

ALL PRODUCTS: The following installation instructions refer to how a specific unit size/style was tested for performance. Attention to the frame type (Retrofit, Flange or Fin & J/New Construction) will determine the type of anchorage needed. These recommended instructions were created to help minimize the number of anchors needed without loss of expected performance on these products the drawings indicate the installation required for a product to perform to its certifications. However, each installer is nevertheless required to identify and properly respond to installation situations that might not be addressed by these instructions because of the unique nature or design of the premises, product selection or other construction/field circumstances. These instructions do not alter the responsibility of the construction professionals, including but not limited to the installer, to possess sufficient knowledge of construction principles and experience to select the appropriate product and perform the installation in a professional, accurate, complete, and responsible manner. Simonton is not responsible for any third party's workmanship or decisions.

LABELING: When the windows leave Simonton's manufacturing facility, each will have one permanent label attached that clearly shows the name Simonton StormBreaker Plus®, Simonton® or Simonton Windows® (AAMA Sticker). Additional removable labels will also be attached to the windows to reflect thermal values when applicable.

INSTALLATION INSTRUCTIONS –For Simonton StormBreaker Plus® 300VL Windows Double Hung, Horizontal Roller, Awning, Casement, Picture, Geometric

The installation instructions below offer a minimum requirement for installing the Simonton StormBreaker Plus® products. The details in these instructions refer to "as tested" 2x substrate installation methodology. If your installation substrate is something other than a 2x construction, please refer to your State and/or Local Code requirements to ensure that the products maintain their designed performance and integrity. Depending on your locality a Professional Engineer may need to be contracted to supply appropriate substitution anchor quantity and placement. For FL and TX coastal customers, please refer to www.floridabuilding.org and www.tdi.state.tx.us respectively for more information on acceptable substitute anchors and substrates.

Note that anchor placement and spacing change by style and the number of additional anchors that are required from the frame to the opening and also through some pieces of hardware supplied with the product. Anchors at hardware locations have been detailed out in the following installation drawings by style as a result.

1. Begin by verifying the window is the correct size for the opening.
 - a. For a new construction application, the mounting flange of the window must be sealed with the proper grade of sealant and flashing, per building code specifications, to prevent air and water infiltration around the window. The proper grade will depend on the surface that the mounting flange will be sealed against. Always make sure that the material used is compatible.
 - b. Run a continuous minimum 3/8" bead of sealant around the inside perimeter of the mounting flange aligned with pre-punched holes (See Fig. A).

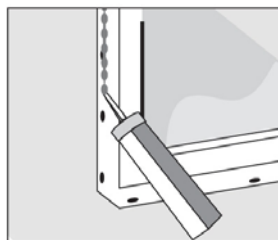
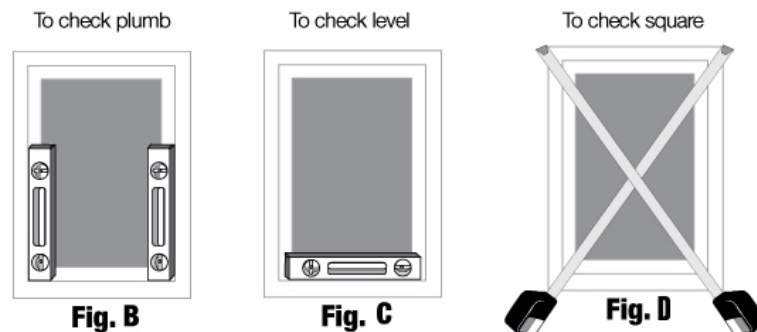


Fig. A

Accessories are available from Simonton to ease the installation and finishing of the new window. When using exterior accessories such as a sill extender or snap in flange, sealant must be applied in the accessory groove of the frame prior to application to prevent leaks. For more information on accessories and their applications contact a Simonton Distributor.

2. Prepare the opening (leveling off the sill if necessary). It is important to remember that the window **MUST** fit into the opening plumb, level and square, even though the opening may not be any of these. If the window is **NOT** plumb, level and square the following problems may occur:
 - Double Hung and Slider sash may be difficult or impossible to remove.
 - Casement sash may not operate properly due to excessive drag on the sill.
 - The sash pivot bar on Double Hung windows could bind and cause the sash to become inoperative.
 - The interlocking meeting rail on Double Hung and Slider windows may not perform properly — allowing air and water infiltration, even if the sash is locked.
 - The weather-stripping may not seal properly, allowing air and water infiltration.
 - The locking system may not engage properly.
3. Tilt the window up into the opening with the sash closed and locked. Set it down on the window sill making sure the sill is level.
4. Tighten the jamb adjusters and shim the window accordingly where necessary to hold the unit secure while checking it for plumb, level, and square. Be careful not to over tighten jamb adjusters or over shim to avoid twisting or deflection of jambs.
 - 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. B).
 - To check level: Place a level along the sill. If the bubble indicator is centered, the unit is level (Fig. C).
 - 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.D). 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.



5. Check the sash where they meet the frame to be certain the weather stripping is sealing properly in all areas. Inspect all weather stripping to insure it has not pulled out of the receiver channel. To reinstall it, pull the weather-stripping completely out of the channel then reinsert it by sliding the spline into the receiver channel. Check for an even reveal (gap) between the sash and the frame.
6. Once the window is plumb, level, and square, install appropriate installation fastener types at the anchorage locations as specified in the drawings included in this document. Ensure the fasteners are properly secured in relationship to the vinyl surface, but **DO NOT OVER TIGHTEN THE SCREWS/TAPCON TYPE ANCHORS**, as this could cause the frame to bow. Recheck the sash for proper operation once the anchors have been installed. Place sealant in the hole and then install the anchor through the frame for retrofit applications. Once the screw or tapcon type anchor is installed correctly, place additional sealant over the screw to fill the hole and cap the installation holes with the caps provided when necessary.

7. Finish off the exterior of the window. Attach the sill extender (if necessary) to the bottom of the sill and trim it to fit in the opening. Be careful not to cut the sill extender too tight to prevent deflection of the sill. Sill extender should not be used as support. 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. 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.
8. Remember: The homeowner is the final inspector. Clean the window well 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 Simonton NFRC Label & Limited Warranty)
9. The enclosed drawings specify by style and frame type the minimum required anchorage and appropriate placement and spacing. For new construction frames note that screws and nails can be substituted, please contact the Simonton Service Solutions Team for acceptable substitutions if needed. (ServiceSolutions@simonton.com or call 800-746-6704 or fax 866-824-9757)

