



NEW CONSTRUCTION WINDOW INSTALLATION INSTRUCTIONS

Important: This Window Unit has been engineered and manufactured to provide superior weather protection and service in accordance with its tested rating. AWS warrants this product only when **INSTALLED PER THE INSTRUCTIONS** printed below. AWS disclaims any responsibility for air or water leakage above, under or around the window unit if it is not installed per the instructions below. Do not paint any part of this unit for any reason. Painting will null and void all warranties.

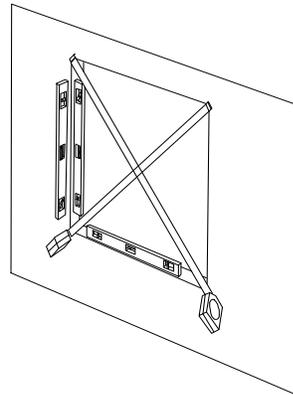
Important: These instructions are based on AAMA 2400-10. They cover the installation of windows in a one or two family dwelling not more than three stories. It is not for retrofit/replacement installation. Some additions have been added, but we recommend following the procedures below. Please refer to the AAMA 2400-10 the industry standard. Information may be obtained at www.aamanet.org.

Important: These procedures are recommended by American Window Systems. There are additional notes added that address other options.

Important: This installation practice is acceptable. There are several different methods for window installation in practice in each state, i.e.: AAMA, ASTM, Local Building Codes, etc. There can be different local and state codes that apply at each location. It is important to check you local and state requirements prior to installation. All practices that create a continuous seal from outside elements can be used. American Window Systems doesn't oversee the installation inspections nor do we install any windows at the jobsite. American Window Systems is not responsible and cannot be held liable for any or all installation practices.

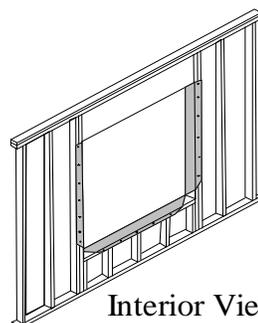
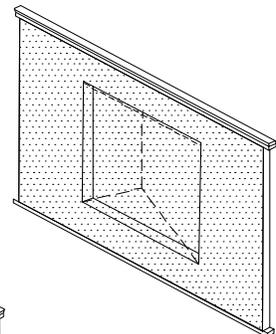
1 Inspect Rough Opening

- Verify that the width and height of the window unit is 1/2" smaller than the rough opening.
- Verify that the rough opening is square. Measure adjacent corners in each direction. The measurements should be within 1/4" to be considered square.
- Verify the rough opening is level and plumb. It must be within 1/4" to be considered plumb and level.
- Verify the sill framing is not crowned or sagging, replace if necessary.
- Verify the rough opening framing is free of voids, holes, twisting, or any condition that will not allow the installation to have continuous contact.



2 Prepare Water-Resistive Barrier (Building Wrap)

- Apply the wrap and make a modified "I-Cut" as shown in the drawing on the right. Cut down the center meeting two cuts up from each bottom corner at a 45 degree angle.
- Fold the bottom and side flaps over and behind the interior sides of the rough opening. Secure tightly to the trimmer/king studs on the inside face of the wall. Extra material past the surface of the king stud should be cut off - as shown in the drawing on the right.

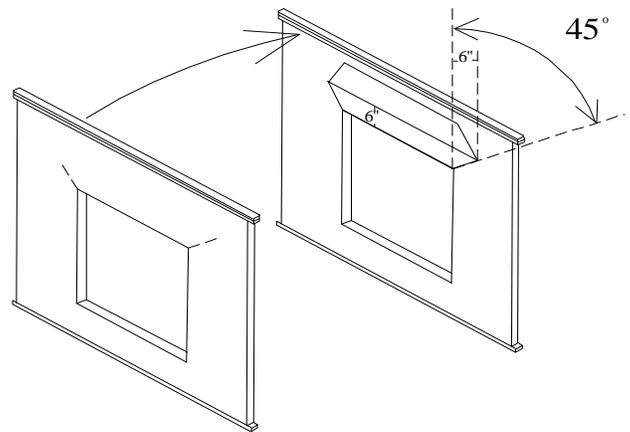


Interior View



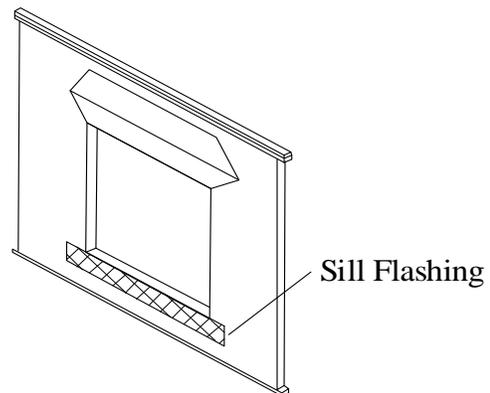
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- At the top corner on each side of the window, measure up 6" and over 6" and mark. Cut at a 45 degree angle from the mark to the rough opening corner. The flap created should be pulled up and temporarily taped to hold it up and out of the way for the window installation



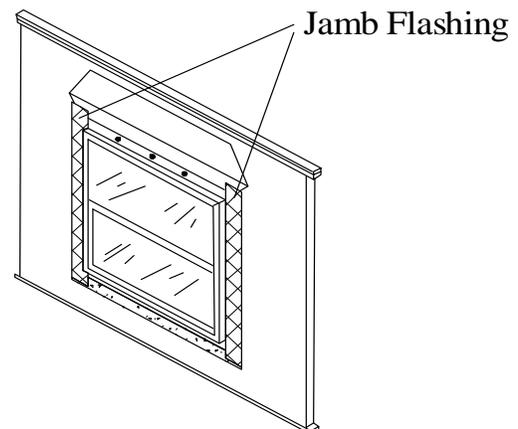
3 Installation of Self Adhesive Flashing

- Cut a strip of self adhesive flashing the width of the window plus twice the length of the jamb flashing (to be applied later). Center and apply a strip of self adhesive flashing immediately below the sill.

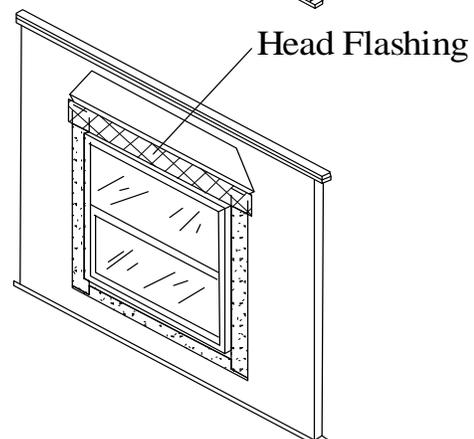


Note: A plastic window pan can be substituted for the sill flashing if the continuous seal of the installation can be maintained. Consult the pan manufacturer for proper installation procedures.

- Apply a continuous bead of urethane to the interior side of the nail fin in line with the pre-punched holes.
- Install the unit in accordance with section 4 "Window Installation".
- Apply a strip of self adhesive flashing on each side of the unit over the nail fin against the jamb. Cut each strip of jamb flashing the window height plus the width of the head and sill flashing minus 1". Center and apply.



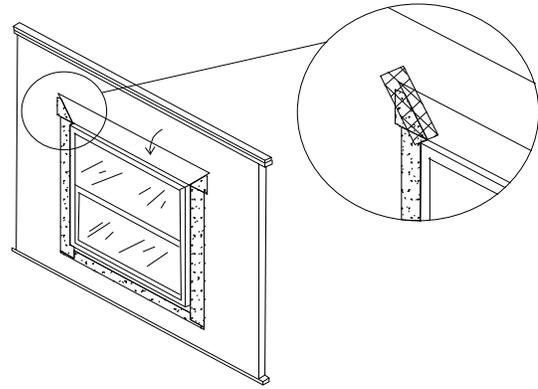
- Apply a strip of self adhesive flashing at the window head. Cut the flashing long enough to extend 1" beyond the jamb flashing on each side.





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- Fold down the flap and apply a strip of self adhesive flashing over the 45 degree cut on each side. Verify there are no gaps or voids at the corner of the window.



4 Window Installation

- Close and lock the window. Window should remain closed and locked until install is complete. Never handle single-hung windows that are open.
- Install window on sill plate resting on shims and center in opening.
- Adjust shims as needed to hold window 1/4" off sill plate.
- Adjust shims as needed to insure the window is plumb, level and square.
- The sill must be supported in a straight and level position to prevent sagging, deflection and sill rotation.
- Fasten a temporary screw in the center of the top nailing fin to help hold the window in place. Do not rely solely on the screw to hold the window - keep contact with the window at all times.
- Verify that the window is plumb, level, and square before continuing.
- If the window has an operable sash, unlock it and verify the window opens properly.
- Close and lock the window.
- Fasten the window with #8 x 1 1/2" truss head screws through the slots in the nailing fin on approximately 4" centers.

Important: Do not overdrive fasteners. Screws should be snug.

- Be sure to place a screw at each corner and at each side of a mullion.
- Remove shims on single units to allow for window expansion. Do not remove any sill support that prevents sagging, deflection, or rotation.
- On double units and units over 4' wide, leave shims in place under each corner and under each mullion.
- Caulk interior and exterior of window. Do not cover weep holes on sill.

*****There are other methods that can be used in accordance with AAMA 2400. These methods include installing the window unit before the house wrap is applied and installing the self adhesive jamb flashing before the window unit. Please refer to the AAMA standard for these type of installation.**