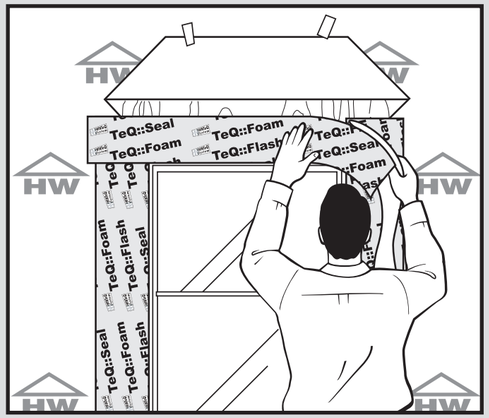
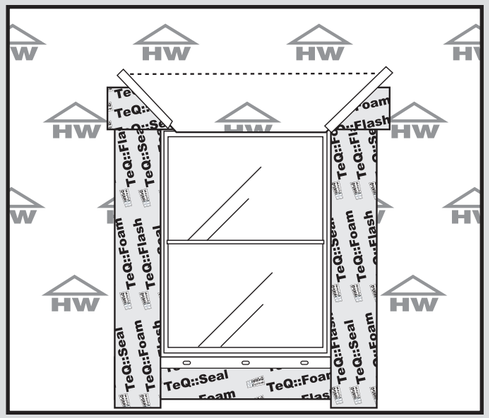


(Figure 9) Head flashing installation.



(Figure 10) Completed exterior installation.

Apply head flashing under WRB flap created in Step 1.

5.2.1. Install head flashing so that TeQ::Flash™ covers the nailing flange and is tight to the window frame edge.

5.3.1. Remove tape that holds flap created in step 1 and pull flap down over head flashing. (See Figure 10)

5.4.1. Apply tape over diagonal cut made in the WRB made using the modified "O" method.

Step 6. Install Interior Insulation

Interior insulation is an integral part of the WINTeQ™ Window Installation System. Once window has been fully installed following steps 1 through 5 TeQ::Foam™ can be applied to the interior side of the window between the rough opening and the window frame.

TeQ::Foam™ has been specifically designed for window and door applications and should be installed using the listed steps (6.1.1. - 6.8.1.).

(Figure 11) TeQ::Foam™ application

6.1.1. Safety first, always wear gloves, eye protection and proper work clothes when using TeQ::Foam™.

6.2.1. Attach applicator gun to TeQ::Foam™ can.

6.3.1. Starting at the header cavity on one side of the window, insert gun nozzle into gap. (see figure 11)

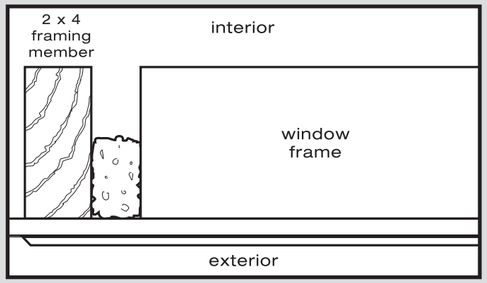
6.4.1. Pull trigger on applicator gun and begin to apply foam while simultaneously moving applicator along gap.

6.5.1. Apply foam to a depth of approximately 1/2 of the depth of the cavity between the window frame and the rough opening (See Figure 12).

6.6.1. Continue application of foam down each jamb gap and into the sill gap.

6.7.1. Trim off excess foam with sharp knife once cured (approximately 10 minutes).

6.8.1. Clean up spills and foam from unwanted areas immediately with acetone, cured foam is difficult to remove and must be sanded or cut away.



(Figure 12) Foam application depth

For a full demonstration please visit **www.winteqsystems.com**

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WINTeQ System™

Window Installation System

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NEW CONSTRUCTION INSTALLATION

This Manual contains installation instructions and details for installing windows in new construction using the WINTeQ™ Window Installation System.

Mounting flange windows are generally used in buildings that incorporate a “Membrane/Drainage System” (exterior weather barrier). Mounting flange windows are designed to integrate with the weather resistant barrier and flashing materials. When installed following the WINTeQ™ Window Installation System guidelines the completed assembly will provide excellent energy efficiency and protection from water infiltration.

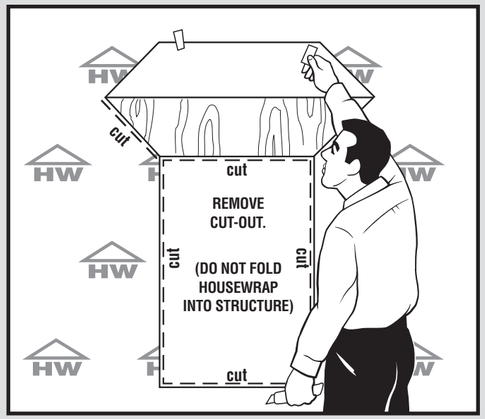
Mounting flange windows are designed to be installed with fasteners that secure the window through the mounting flange to the building sheathing or rough framing members. In some cases sheathing is not installed around the perimeters of windows and doors. The installation of the WINTeQ™ Window Installation System and ASTM window and door installation standards require that sheathing is in place prior to window installation.

WINDOW INSTALLATION

Window installation based on AAMA 2400 Method “A1”

Step 1. Cut weather resistant barrier

Cut and remove weather resistant barrier (WRB) from rough opening using WINTeQ™ modified “O” method. Cut top portion of WRB to create flap, then fold up and temporarily tape above head condition (see figure 1)



(Figure 1) Modified “O” cut in weather resistant barrier with tape supporting flap.

Step 2. Install Sill flashing

2.1.1. Apply TeQ::Flash™ to sill condition by removing the release backing and placing the top edge level to the rough opening (see figure 2). Sill flashing should extend past rough opening on each side equal to the approximate width of TeQ::Flash™, i.e. 9” flashing should extend beyond jambs on each side by 9”.

CUTTING AND APPLYING FLASHING

The following flashing cut formulas (see figure 3) should be used to determine the length of each strip of flashing for each window. The ASTM standard requires a minimum width of 9” for flexible flashing. Wider flashing materials, (e.g., 12”) may be used.

Tip: It is best to pre cut flashing to save time during installation process. Using the rough opening dimensions and the formula listed below will ensure appropriate length. Be sure to label the cut pieces for easy identification during installation.

(Figure 2) Sill flashing installation.

FLASHING LENGTHS AND CUT FORMULAS

Sill Flashing = RO^{W} + (2 x flashing width)

Jamb Flashing = RO^{H} + (2 x flashing width) -1”

Head Flashing = RO^{W} + (2 x flashing width) + 2”

legend

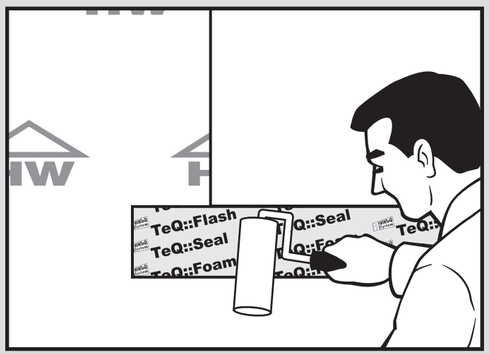
RO = rough opening

RO^{H} = rough opening vertical (height)

RO^{W} = rough opening horizontal (width)

(Figure 3) Flashing lengths and cut formulas.

2.2.1. Roll smooth to ensure air bubbles are removed and intimate contact is made between substrates (see figure 4).



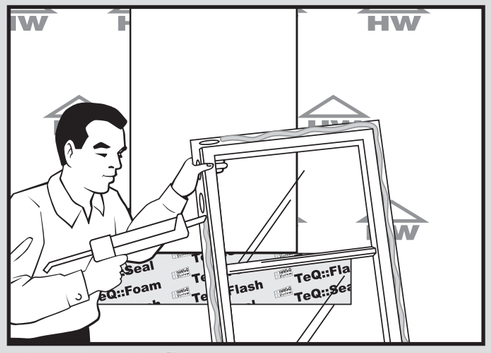
(Figure 4) Roll flashing smooth

Step 3. Install Window

3.1.1. Shim sill and jambs to allow for a minimum 1/4” gap (1/2” gap optimal) between rough opening and window. Some window manufacturers require the placement of shims and WINTeQ™ recommends placement of shim on the sill to allow for a minimum 1/4” gap. When called for by the window manufacturer, shims must be left in place. When used as a spacer they can be removed after the window has been mechanically anchored.

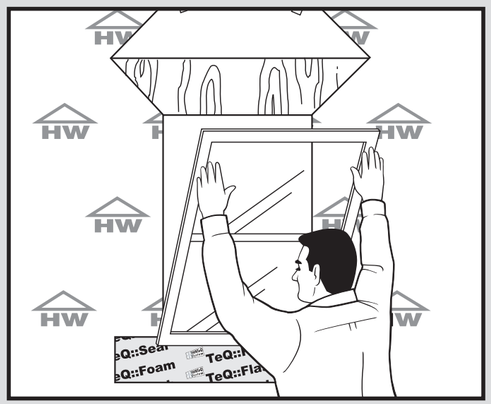
For left in place shims place a bead of TeQ::Seal™ across area where shim will mount. Embed shim in sealant and then apply a second bead of sealant over shim. This will ensure a complete seal around the shim.

3.2.1. Apply a continuous bead of TeQ::Seal™ Window Flange Sealant to the interior side of the mounting flange. Apply TeQ::Seal™ so that it covers over nailing slots on flange when provided (See figure 5).



(Figure 5) TeQ::Seal™ application

3.3.1. Install window into opening within 10 minutes by placing window sill on rough opening sill shims and tilt in header. (See Figure 6) Press firmly in place.



(Figure 6) Tilt in window installation.

3.4.1. Place a mechanical fastener on one side of the nailing flange in the upper part of the flange. Do not drive the fastener all the way in at this time.

3.5.1. Check for level, plumb and true, shim as necessary to achieve.

3.6.1. Ensure window is square and operates smoothly.

3.7.1. Continue to mechanically fasten the window in place beginning at the opposite side of the first fastener. Make sure window remains plumb, true and square.

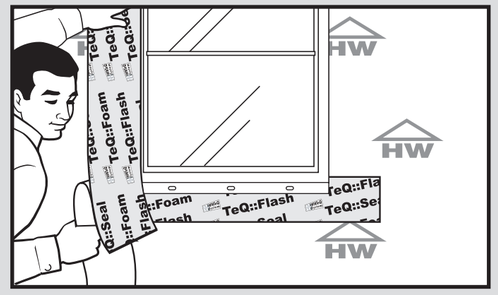
3.8.1. Do not over drive fastener heads.

Step 4. Install Jamb Flashing

TeQ::Flash™ should be installed to both sides of the jamb following the listed steps.

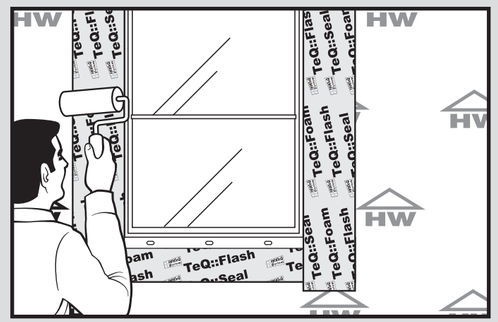
4.1.1. Jamb Flashing should extend above the head and below sill of the rough opening equal to the width of the flashing less 1/2 “, i.e. 9” flashing should extend beyond rough opening of head and sill by 8-1/2”. Refer to Figure 3 for cut formulas.

4.2.1. Install jamb flashing so that the flashing covers the nailing flange and is tight to window frame edge (see figure 7).



(Figure 7) Jamb flashing installation .

4.3.1. Roll smooth to ensure air bubbles are removed and intimate contact is made between substrates (see Figure 8)



(Figure 8) Roll flashing smooth.

Step 5. Install head flashing

Install TeQ::Flash™ to the head condition of the window flange as described in the listed steps

5.1.1. Head flashing should extend beyond jamb flashing by 1” on both sides (See Figure 9).