



Window Installation System

OSI[®]

Replacement Window Product Profile and Installation Guidelines



Installation of a new construction or replacement window requires adequate preparation and attention to details to eliminate delays and costly call backs. Nothing eats up profits like call backs. Use the following product guidelines to help you prepare for a problem free window installation.

INSTALLATION PREPARATION:

Selecting the right system for window installation is a critical step in preparation. The WINTeQ® System takes the guess work out of material selection. TeQ::Seal™ is designed to be compatible with all makes of window flashing. TeQ::Foam™ will not warp windows and TeQ::Flash™ will work in wet and cold weather. To further complement the WINTeQ® System Henkel has established these best practices for replacement windows and extended the system components to include QUAD® and H2U. These products compliment the line up by offering QUAD® as the exterior sealant for the exposed areas and H2U for interior sealing and caulking.

Most replacement windows will require the use of WINTeQ® System products but few will require all the materials outlined. The materials can be selected from this line up and used where needed once the method of installation has been identified. Follow the outline below for smooth, efficient and successful installations.

PREPARE THE JOB SITE:

Replacement windows require more job site preparation than new construction. There are many variables that need to be considered. Informing the homeowner about what to expect is high on the list. Let them know that you will be entering the home and that you need access to the windows from the inside and show them the materials you will be using.

MAKE SURE YOU HAVE ENOUGH INSTALLATION MATERIALS:

You should know how much material you will need to install all the windows. A typical 3' x 4' window will require 1 cartridge of exterior sealant. 1 can of TeQ::Foam™ will do approximately 8 of the same size windows. Flashing tape can be determined by using the table below:

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)

PERFORM FINAL INSPECTION:

Ensure that all windows are operable and clean. It is also a good idea to explain the window operations with the homeowner. Use the attached check list for final inspection.

- Checked all windows for operation and function
- Make any required adjustments
- Check weep holes for obstructions
- Clean windows, frames and work area.
- Remove all packaging materials and debris from job site and dispose of properly.
- Review window operation with homeowner with approval



WINDOW INSTALLATION PRINCIPALS:

The installation of a replacement window regardless of style or type requires the same sealing principals as a new construction window. Sealants are applied in three areas to provide critical barriers for water moisture and air infiltration. The following directions are best practices guidelines for the installation of replacement windows. Replacement installations may vary and present many types of conditions, the installer must determine the best installation practice suitable for each individual install.

Principal Area 1

Replacing Window from the interior side using a block frame window

1. Apply TeQ::Seal to interior side of exterior stop and across sill (**fig 1**). Insert window into opening. Check for plumb level and true, shim where necessary. Apply fasteners as recommended by window manufacture to secure window into opening.

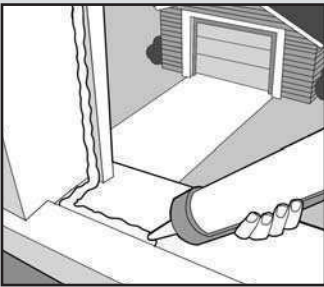


fig 1



fig 2

2. Seal Window Frame to Rough opening:

Once the window is set in place apply TeQ::Foam between the rough opening and window frame, this will produce a second seal against air and water infiltration with improved performance compared to traditional fiberglass (**fig 2**).



fig 3

3. Caulk Interior Trim

Replace all existing interior trim and caulk/seal as needed using ProSeries H2U. This seal is the last barrier for air infiltration, it also provides a clean finished look (**fig 3**).

Principal Area 2

Replacing Window from the Exterior side using a block frame window

1. Apply TeQ::Seal to exterior side of interior stop and a continuous bead along sill (**fig 4**). Insert window in to opening. Check for plumb level and true, shim where required. Apply fasteners as recommended by window manufacture to secure window into opening.



fig 4



fig 5

2. Seal Window Frame to Rough Opening

Once the window is set in place apply TeQ::Foam between rough opening and window frame (**fig 5**).

3. Interior trim

Caulk interior trim with ProSeries H2U to provide for a final barrier for air infiltration (**fig 6**).



fig 6



fig 7

4. Seal Exterior Trim

Apply Quad Advanced Formula Sealant around perimeter of window at window and rough opening. The use of backer rod may be necessary to control joint depth.

In some installations the use of trim coil may be used to cap or cover the window/rough opening transition. When installing trim coil always seal any exposed joints with Quad (**fig 7**).

(continued on back)

Principal Area 3

Replacing Window from Exterior Side using Nailing Flange Replacement Window

1. To install a replacement window with a nailing flange it will be necessary to expose the area where the nailing fin is mechanically attached to the exterior sheeting (**fig 8**).



fig 8



fig 9

To expose this area remove existing trim or carefully cut back siding a minimum of 4" around perimeter of window and remove. Caution should be taken to ensure that any existing weather resistant barrier is not damaged at this time. Remove existing window.

2. Apply 4" TeQ::Flash Rubberized asphalt Window Flashing to window sill opening, use the flashing cut formula in figure 1 to determine flashing length requirements (**fig 9**).

3. Apply TeQ::Seal around perimeter of nailing fin (**fig 10**) and install window into opening. Check for Plum, level and true and apply fasteners as required.



fig 10



fig 11

4. Apply TeQ::Flash to the jamb and header.

5. Replace window trim and seal any exposed joints with Quad Advanced Formula sealant (**fig 12**).

6. Caulk interior trim with ProSeries H2U to provide a final barrier against air infiltration (**fig 13**).



fig 12



fig 13

OSI® WINTeQ™ TeQ::Seal™ Window Flange Sealant is a single component high quality sealant based on modified polyurethane polymers. Designed for the WINTeQ Window Installation System it provides a permanent weather tight seal when used according to directions. TeQ::Seal can be applied to wet surfaces and easily extruded at below freezing temperatures. It is compatible with all types of window flashing and adheres to most common building substrates.

OSI® WINTeQ™ TeQ::Flash™ Rubberized Asphalt Window Flashing is a self-adhering 20 ml laminate consisting of a 2 ml high density polypropylene film and rubberized asphalt. It is designed for sill, jamb and header flashing around windows and doors.

OSI® WINTeQ™ TeQ::Foam™ Low Pressure/Low Expansion Polyurethane Foam is a single component foam for use in sealing between the window frame and rough opening. This closed cell flexible foam will seal out water and air and is guaranteed not to not warp or distort windows. TeQ::Foam is applied using a foam applicator gun sold separately.

OSI® ProSeries H2U Acrylic Urethane Sealant is a high performance latex base sealant designed for the window and siding industries. This superior acrylic urethane formula has better adhesion, flexibility and durability than most caulks and sealants. It cleans up with soap and water and is suitable for interior use. Cured sealant is paintable and will resist surface mold and mildew.

OSI® QUAD® Advanced Formula Sealant is a unique multi-polymer formula recommended for exterior window, door and siding applications. It stays flexible in hot and cold weather and can be applied to wet surfaces. Its unique self-tooling characteristics allow for a professional finish. It is also available in over 200 colors.

