# WINDOW INSTALLATION GUIDE
# FOR NEW CONSTRUCTION - WOOD FRAMING

Loewen

## IMPORTANT NOTICES AND INFORMATION

- Read these instructions in their entirety prior to installing windows.
- Any local building code requirements supersede these recommended installation instructions.
- Building design, construction methods, building materials and site conditions unique to your project may require an installation method different from these instructions, and additional care.
- Remove shipping blocks and related staples prior to installation.

### FOR TYPICAL WOOD FRAME CONSTRUCTION:

- These instructions were developed and tested for use with typical wood frame wall construction in a wall system designed to manage water, with a weather resistant barrier applied prior to the window installation.
- These instructions are not to be used with other construction methods.

### PRECAUTIONS AND SAFETY:

- Do not work alone. It is recommended that at least two people work together to avoid personal injury or damage when working with windows.
- Use caution when handling glass. Broken or cracked glass can cause serious injury.
- Wear necessary protective gear (gloves, clothing, goggles, etc.).
- Secure tools, ladders or scaffolding. Follow equipment manufacturers' operation instructions, warnings and cautions.
- Secure and properly support the unit until completely fastened.

## MATERIALS REQUIRED

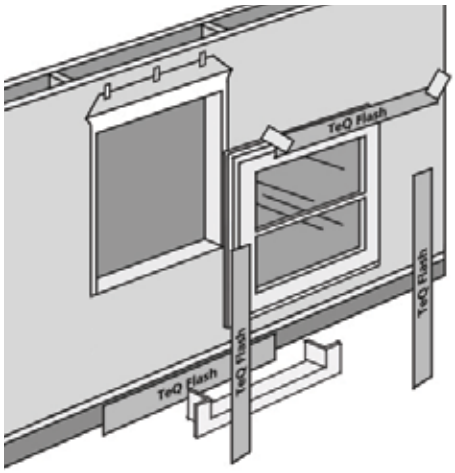
- High impact shims (sloped, shim pack or Horseshoe Shims by Glazelock or equal)
- 1 1/2" (38 mm) #8 screws (stainless steel)
- OSI TeQ Foam for interior cavity seal
- OSI TeQ Flash Self Adhered Flashing 100' rolls (minimum 6" width on sill and minimum 4" on jambs and head). Check your code requirements
- Approximately 1-2 (depending on unit sizes) tubes of OSI TeQ Seal Sealant

## TOOLS REQUIRED

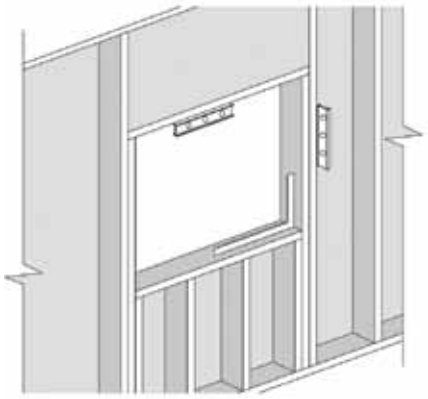
- Tape measure
- Level
- Square
- Hammer
- Stapler
- Screwdrivers
- Scissors or utility knife
- Screw gun
- OSI TeQ Foam Applicator
- Caulk gun
- J Roller


OSI
Professional Grade
Adhesives & Sealants

## EXPLODED VIEW TO DEMONSTRATE SEQUENCE

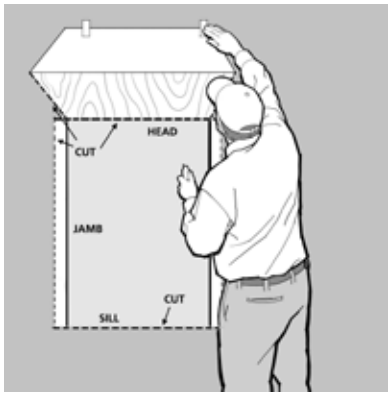



## 1. VERIFY THE ROUGH OPENING



- Measure the rough opening and the window to determine that the size is correct. Recommended rough opening is between 3/4" (19mm) - 1" (25mm) larger than the window width and height.
- Ensure that the rough opening is plumb, level and square, and the walls in the opening are not twisted.
  a) 1 1/2" (38 mm) solid blocking is required at the sill and sides of the opening.
  b) Ensure proper header is in place before installation.
  c) Make necessary corrections.

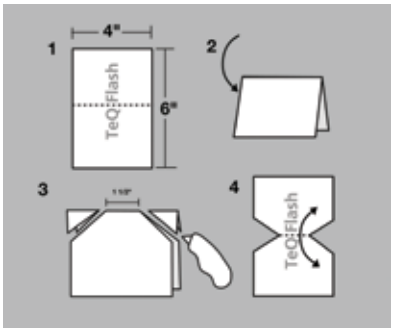
## 2. WRB SHOULD BE APPLIED PER MANUFACTURERS INSTRUCTIONS

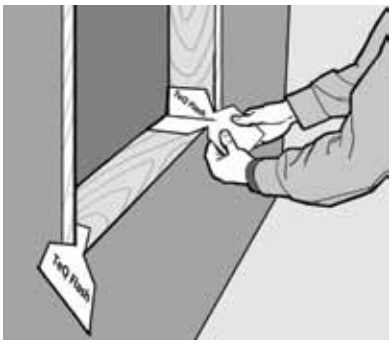


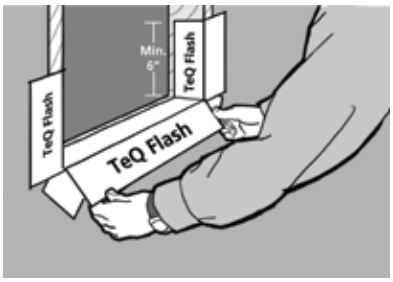

- Cut out Weather Resistant Barrier with a complete box cut of the opening.
- Weather Resistant Barrier should NOT be brought into the rough opening.
- Create a temporary flap at the head of the opening by cutting the Weather Resistant Barrier on a 45 degree angle. Temporarily tape the flap up out of the way to allow for window installation and head flashings.
- Cut back the Weather Resistant Barrier approximately 1 1/2"exposing the sheathing at the sides only. This will create a direct contact seal between the window flange and sheathing.

## 3. CREATE TEQ FLASH SILL PAN

- Cut a 4"x 6" rectangular TeQ Flash flashing.
- Fold the piece in half.
- Cut both corners leaving appox 1 1/2" in the center (see #3)
- Install these tightly in the corners to flash and seal the corner joints.
- This must be done allowing for tight adhesion into the corners with no air bubbles.
- Cut a length of TeQ Flash flashing, using the formulas, at least 12" wider than the rough opening.
- Center the flashing left to right. Then set into the rough sill the same depth of the window or greater. With a utility knife, cut the flashing from the corner down the flashing that will expose the previously installed corner guard. (see drawing)
- Roll out and smooth with J roller.



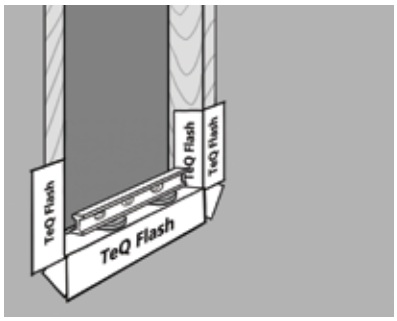



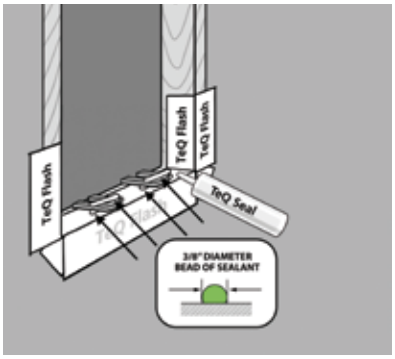




## 4. SET SHIMS AND LEVEL THE SILL CONDITION

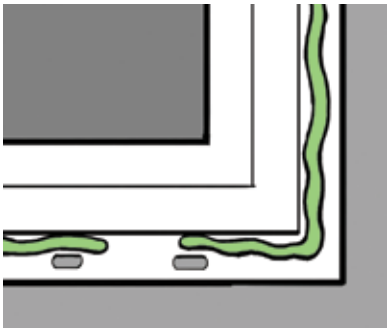
- Level the sill condition by first performing a "dry run" with the level and high impact PVC shims.
- Use high impact, Glazelock Shims or equal.
- After shims are determined to be level on the sill, proceed to set shims with OSI TeQ™ Seal under the shim and over the shim as shown in drawing
- Shims should be placed on the sill 4" (100mm) from each end and at every mull. Make sure shim is placed in proper depth and not under the jamb extension.
- If shims are left in place then make sure they don't protrude past the interior window frame.

**Important:** In a future step, the TeQ Foam™ being applied under the window needs to be a continuous seal at the sill with no protruding shims.

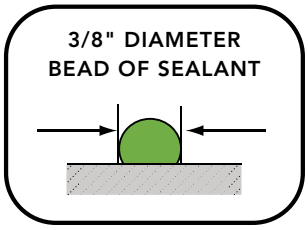


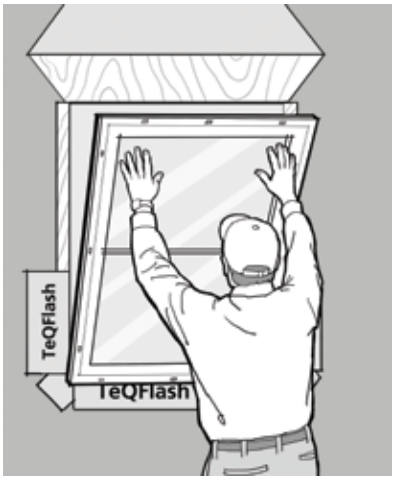
## 5. PREPARE THE WINDOW FOR INSTALLATION

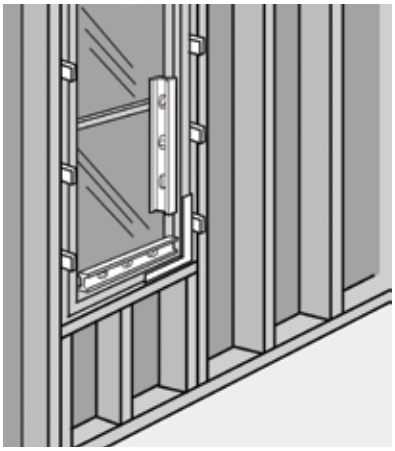


- Apply a heavy 3/8" OSI Teq Seal over the flange holes.
- On the bottom flange, leave a 2"void approx 2" from either end and under every mull joint. This will allow a drainage path for incidental moisture.
- Window must be installed before sealant dries.




## 6. SET THE UNIT AND SECURE



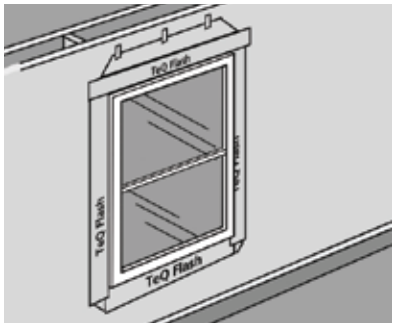



TWO OR MORE PEOPLE MAY BE REQUIRED TO ACCOMPLISH THIS STEP.

- Set the window from the exterior into the rough opening
- Center the window in the rough opening and apply a 1 1/2" screw through the top corner of the flange.
- Shim the unit plumb square and level before applying a screw through every other flange hole. (do not angle or over tighten the screws).
- Apply shims 4" (100mm) from bottom and top, and one at the center.
- Operate the unit once it is completely fastened.

## 7. APPLY TEQ FLASH AT JAMBS AND AT HEAD

- After the window has been fastened, Teq Flash should be applied to the jambs and head.
- Use the formula for proper flashing lengths.
- Use a J roller or equal to push out all air pockets to ensure good adhesion.
- If at any time the flashing does not stick due to cold wet substrates, it is permissible to secure the flashing with a tack hammer and staples.




**FLASHING LENGTHS AND CUT FORMULAS**

| | | |
|---|---|---|
| Sill Flashing | = | $RO^W$ + 12" |
| Jamb Flashing | = | $RO^H$ + (2 x flashing width) - 1" |
| Head Flashing | = | $RO^W$ + (2 x flashing width) + 2" |

Legend

RO = rough opening

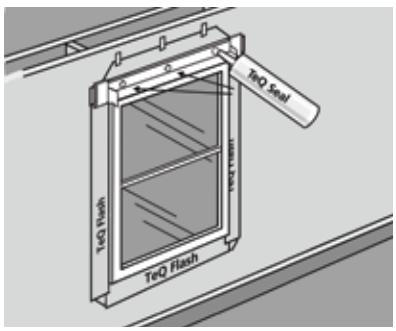
$RO^H$ = rough opening vertical (height)

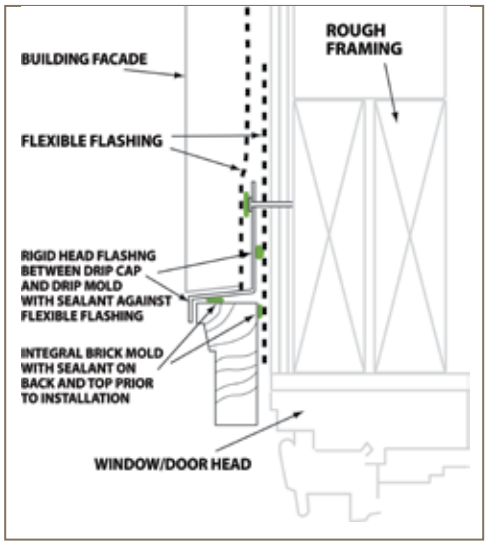
$RO^W$ = rough opening horizontal (width)

## 8. CUT AND INSTALL BOTH FLEXIBLE & RIGID HEAD FLASHING

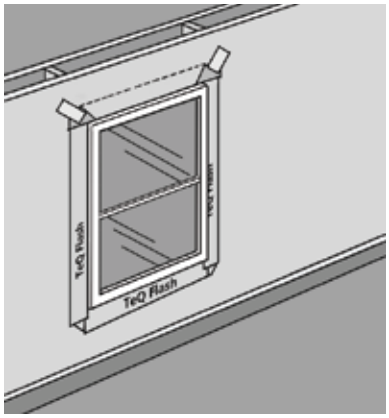
- Appropriate head flashing must be applied to top of the unit.
- Apply a healthy bead of Teq Seal to both sides of the rigid head flash and fasten with 1 1/2" screws.

**Note:** This step is not necessary if window unit has an integral drip cap fasten by the factory.



## 9. FOLD DOWN TOP FLAP OF WEATHER RESISTANT BARRIER




- Remove the previously applied tape holding the flap of the WRB at the head.
- Allow the flap to lay flat over the head flashing. Apply slices of OSI TeQ Flash™ over the diagonal cuts made in the WRB. Ensure that the entire cut is covered.

## 10. SEAL AND INSULATE THE INTERIOR CAVITY

- The rough opening should have enough tolerance to accept OSI Teq Foam for insulating purposes.
- From the interior, insert the nozzle of the applicator into the rough opening, hold the tip of the nozzle 1" (25mm) from the exterior window flange and apply a minimum 2" (50mm) bead of foam around the entire unit.

**NOTE :** After the foam has set you may fill the entire rough opening cavity with OSI Teq Foam or fiber glass insulation.

## 11. WINDOW CRITICAL INTERFACE


- Exterior Facade should allow for 3/8" void at the perimeter of the window frame. This will allow for backer rod and high quality sealant at this critical interface.
- OSI Quad® is highly recommended.
- Apply backer rod in such a way to avoid puncturing backer rod. Punctured backer rod can off gas and cause sealant bubbling.
- Backer rod should be slightly larger than the void and fit snug into the void.
- Insert 3/8" and 10 mm backer rod into the space around the window. Provide at least 3/8" (10mm) clearance between the backer rod and the exterior face of the window. Backer rods add shape and depth for the sealant line.

OSI

WINTeQ System™


Henkel

# WINTeQ™ SYSTEM WARRANTY

Henkel Corporation • 26235 First Street • Westlake, Ohio 44145 • Customer Relations: 1-800-624-7767

*Henkel Corporation warrants that, for a period of fifteen (15) years, from the date of installation, its WINTeQ™ Window System, consisting of TeQ::Flash™, TeQ::Seal™, and TeQ::Foam™ will not be defective in materials or workmanship, when installed in accordance with recommended installation procedures and industry standards, and will perform as indicated in the WINTeQ™ specifications. If any component of the WINTeQ™ Window System should fail, Henkel Corporation will pay for the cost of the labor and materials to correct problems caused by such failure, up to $10,000 per dwelling unit. Henkel Corporation will not be responsible for failures caused by improper storage, shipping, handling, or installation of the WINTeQ™ components, neglect, misuse, abuse, improperly designed or constructed wall systems and windows, UV exposure beyond 60 days, or acts of God, including, but not limited to hurricanes, tornadoes, floods, earthquakes, severe weather or other natural phenomenon.*

*THE WARRANTIES AND REMEDIES ABOVE ARE THE EXCLUSIVE WARRANTIES AND REMEDIES MADE BY HENKEL CORPORATION AND ARE IN LIEU OF ANY AND ALL OTHER WARRANTIES AND REMEDIES, EXPRESS OR IMPLIED, INCLUDING ANY WARRANTIES FOR MERCHANTABILITY OR FITNESS FOR A PARTICULAR PURPOSE. This limitation shall apply whether any claim arises or is alleged to arise in contract, tort (including negligence), strict liability, or otherwise. Under no circumstances shall Henkel Corporation, its officers, directors, employees or agents be liable for consequential, incidental, special, indirect, or similar damages. Some states do not allow the exclusion of implied warranties or the exclusion or limitation of incidental or consequential damages, so the above limitation or exclusions may not apply to you.*

***This warranty is made solely on behalf of Henkel and not on behalf of any retail lumberyard establishment.***

*Certificate No.* _____

*Installation Date* _____

_____ *WINTeQ™ Certified Installer*

*Company* _____

*Street* _____

*City* _____

*State* _____ *Zip* _____

_____ *Homeowner*

*Street/Lot #* _____

*City* _____

*State* _____ *Zip* _____

# WINTeQ™ Warranty Registration

Please fill out the below information to be officially registered for your WINTeQ warranty.
Any questions, please call **Henkel Consumer Relations at 1-800-624-7767**
Mon. - Fri. 9:00 am - 4:00 pm EST

**Homeowner** _____ Install Date _____

Address _____ Lot# _____

City _____ State _____ Zip _____

Email _____ Phone _____

**Builder** _____ **Contact Person** _____

Address _____

City _____ State _____ Zip _____ Phone _____

**Responsible WINTeQ™ Installer** _____ Installer # _____

Address _____

City _____ State _____ Zip _____


**HENKEL CORPORATION**
Attention: WINTeQ Department
26235 First Street
Westlake, OH 44145

Call 1.800.563.9367 for the dealer nearest you. | International 204.326.6446 | www.loewen.com | E-mail: info@loewen.com

Loewen



FSC
SW-COC-1739

Recycled Paper
Printed in Canada
September 2006
P1015A