



DOOR INSTALLATION GUIDE WOOD FRAMING
New Construction

Loewen

IMPORTANT NOTICES AND INFORMATION

- Read these instructions in their entirety prior to installing doors.
- 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 door 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 doors.
- 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
- OSI TeQ Seal™ Sealant
- Rigid and sloped quality sill.

TOOLS REQUIRED

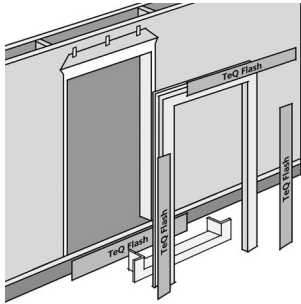
- Tape measure
- Level
- Square
- Hammer
- Stapler
- Screwdrivers
- Scissors or utility knife
- Screw gun
- OSI TeQ Foam™ Applicator
- Caulk Gun
- J Roller



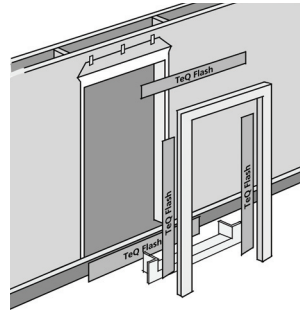
OSI
Professional Grade
Adhesives & Sealants

EXPLODED VIEW TO DEMONSTRATE SEQUENCE

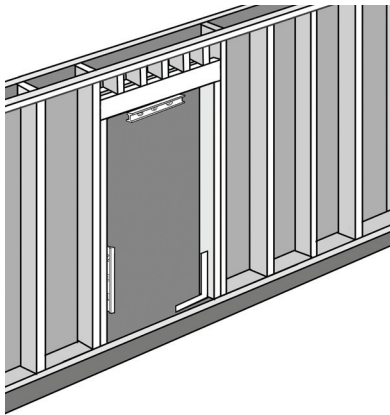
FLANGED DOOR



BRICKMOLD DOOR

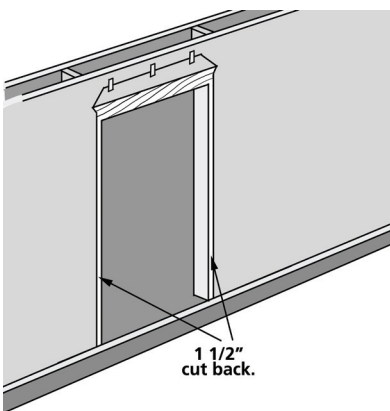


1. VERIFY THE ROUGH OPENING



- Measure the rough opening and the door to determine that the size is correct. The rough opening is recommended to be no less than 3/4" (19 mm) larger than the door unit in width and height.
- Ensure that the rough opening is plumb, level and square, and that the walls in the opening are not twisted.
 - a) Sill must be flat and level.
 - b) Adequate header must be applied, check with engineering.

2. WRB SHOULD BE APPLIED AND FASTENED PER MANUFACTURERS INSTRUCTIONS. STEPS ON HANDLING THE WRB REMOVAL AT THE OPENING



- If WRB is applied then cut away with a complete box cut of the opening.
- NO WRB should be brought into the rough opening.
- Create a temporary flap at the head of the opening by cutting the WRB on a 45 degree angle. Temporarily tape the flap up out of the way to allow for door installation and head flashings.
- Cut back and expose the sheathing at the side jambs by removing approximately 1 1/2" of WRB. This will create direct-contact seal to the sheathing.

3. PREPARE AND APPLY THE SILL PAN

STEP 3A:

- Pan flashing is used at the base of openings and designed to collect and drain water directly to the exterior or onto the weather resistive barrier.
- Pan options are (Rigid, Flexible or Combination Rigid/Flexible), Rigid Sill Pans are recommended to be used wherever possible.
- Rigid Sill Pans should be sloped outward with a minimum 2" end dam, 1/2" interior upturn leg and 2" exterior down turn leg.
- Apply Teq Flash along the face of the sill whenever possible.
- Before fastening the sill pan, apply three heavy 3/8" rounded bead of OSI Teq Seal onto the construction plate, one outboard, inboard and at the exterior down turned leg. Continue the sealant approx 6" up both jambs at each end. (figure 1 and side view of sill pan)
- Set the pan into the sealant and check for level.
- Secure the end dams with fasteners as required (figure 2)
- Seal the end dams with TeQ Seal, tool the end dams to the framing as shown. (see figure 3)

FIGURE 1

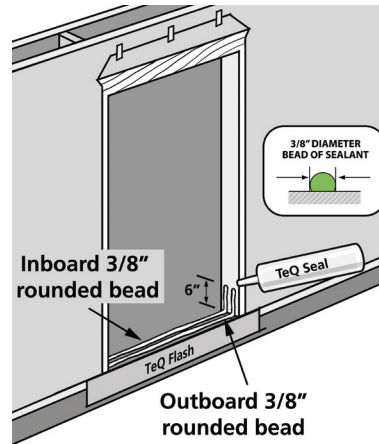


FIGURE 2

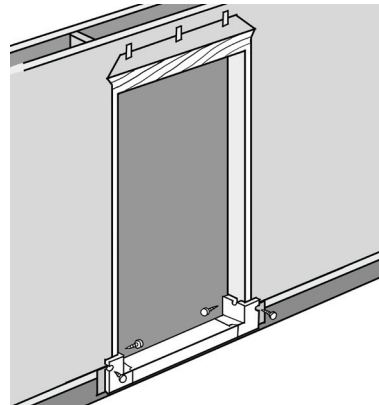
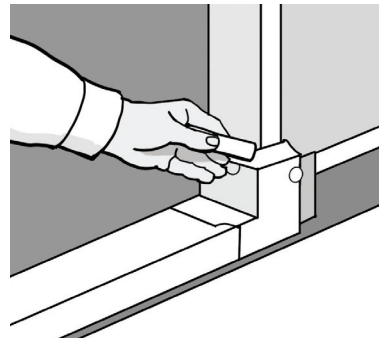
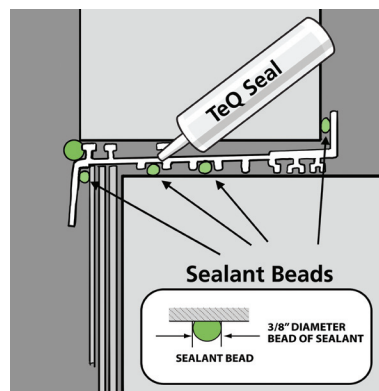


FIGURE 3



SIDE VIEW OF SILL PAN

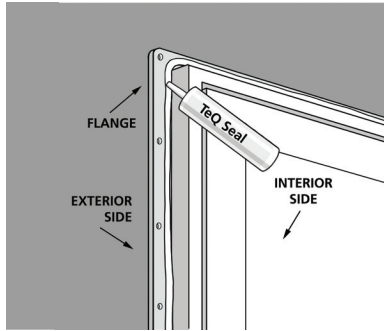


STEP 3B:

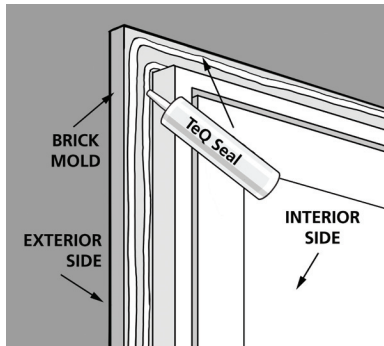
- Critical to run a bead of OSI Teq Seal along the interior of the upturn leg of the pan, the sealant bead can be applied before or after the door unit is installed and must create a positive seal along the entire sill of the door.
- Run a discontinuous bead of OSI Teq Seal along the exterior of the door sill nosing

4. PREPARE THE DOOR FOR INSTALLATION

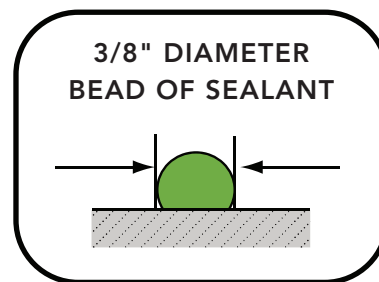
FLANGED DOOR



BRICKMOLD DOOR

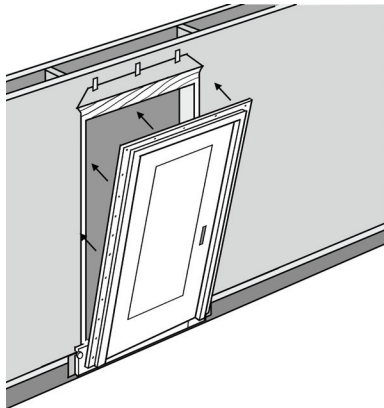


- Apply 3/8" bead for bedding joint.
- On backside of flange or brickmold, (where the sealant will make contact with the wall it is being applied to) apply a healthy, plump 3/8" bead of OSI TeQ™ Seal on all 3 sides of flange/brickmold.

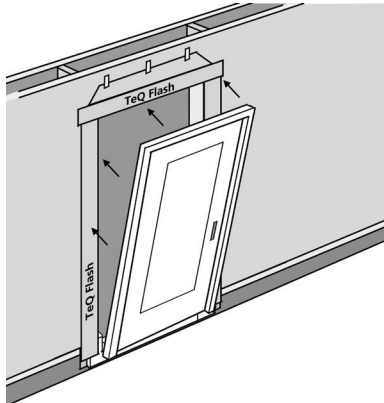


5. INSERT AND FASTEN THE DOOR

FLANGED DOOR



BRICKMOLD DOOR



FLANGED DOOR

- Set the bottom of the door into the rigid sill pan, then tilt the top into position.
- Center the door between the sides of the opening allow clearance for shimming.
- Insert 1 1/2" (38 mm) #8 screw to the top corners, this will keep the unit from falling during shimming etc.

BRICKMOLD DOOR

- Flash the opening jambs and head with OSI TeQ Flash™ before the door is installed.
- Make sure the jambs stay straight on flange or brickmold applications while applying screws approx. 12" apart.

It is permitted to use tack hammer and construction staples to secure OSI TeQ Flash™ during inclement weather conditions.

6. APPLY SIDE SHIMS

- Shim the unit at the jambs, ensuring that it is square, and that the jambs, head and sill must be level and straight.
- Apply a 3 1/2" #8 screw through every hinge into the RO studs.

The shims should be placed at every hinge and lock location.



7. FASTEN THE UNIT

FASTENER SCHEDULE

- After verification, proceed to secure the unit by applying 1 1/2" (38 mm) #8 screws approximately every 12" (300 mm) through the nailing flange starting within 8" (200 mm) of the corner. The screw should be centered in the hole and securely fastened. Do not over tighten.
- Apply screws on all three sides.

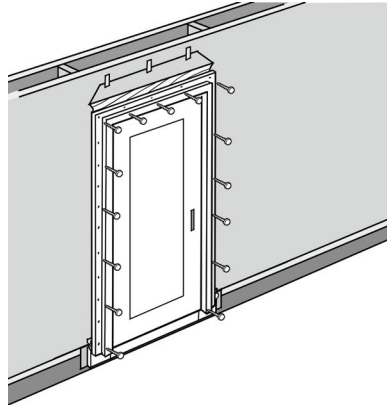
In areas where impact glass is required or in high wind speed areas, install screws in all prepunched holes (6 1/2" o.c. max.)

Galvanized or stainless steel screws are recommended.

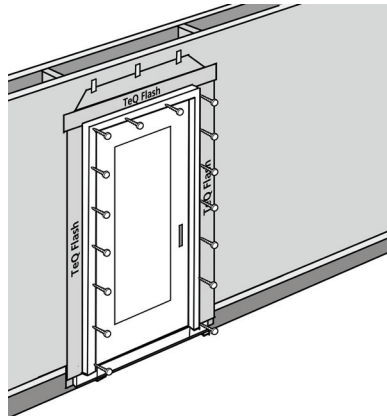
FOR BRICKMOLD DOOR

- Install fasteners through jamb area or brickmold, pre-drill holes and countersink.

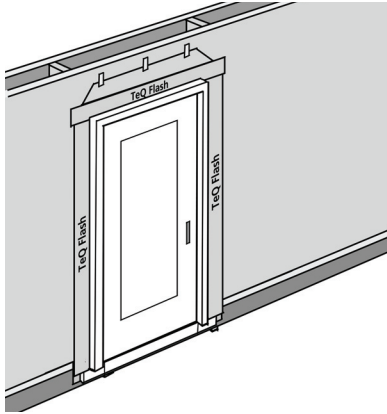
FLANGED DOOR



BRICKMOLD DOOR



8. IF FLANGED DOOR, INSTALL THE SELF ADHERED FLASHING



- Use 4" or 6" OSI TeQ Flash™ to run the height of the door and extend up the head of the door another 4" or 6" (depending on size of flashing used across the head).
- Install the self adhered flashing over the mounting flanges on the jambs.
- Install the self adhered flashing over the mounting flanges at the head.
- Use J roller to smooth out flashing, eliminating air bubbles.

9. INSTALL THE RECOMMENDED HEAD FLASHING

FIGURE 1

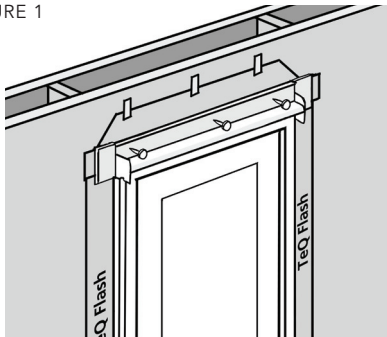
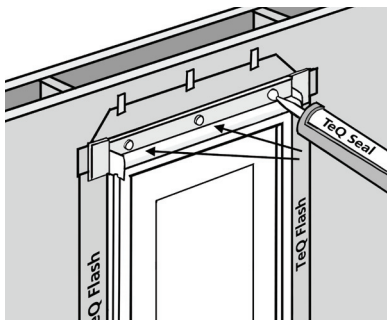
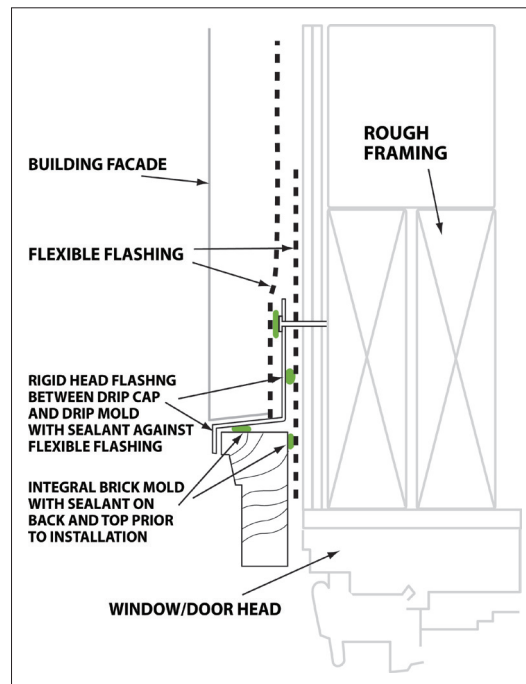


FIGURE 2



- Appropriate rigid head flashing must be installed across the top of the unit.
- Secure the head flashing with appropriate fasteners. (see figure 1)
- Seal over fasteners with OSI TeQ Seal™. (see figure 2)

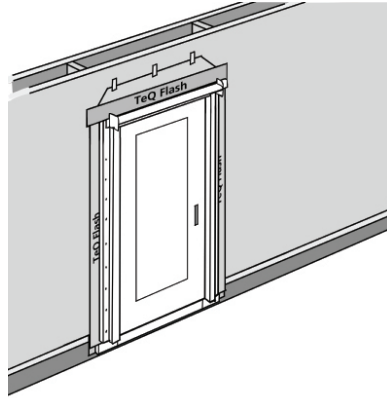
Note: This step is not necessary if your door unit has an integral drip cap.



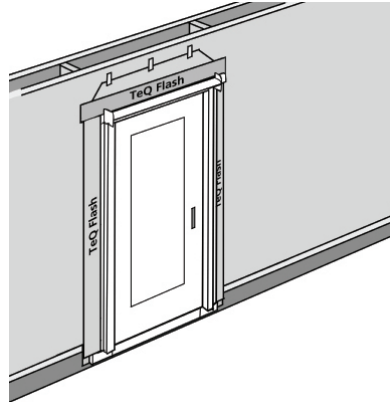
10. INSTALL ANOTHER PIECE OF TEQ FLASH™ AT THE HEAD

- Cut a piece of 4" TeQ Flash™ to apply over the upturned leg of the rigid head flash.

FLANGED DOOR INSTALL



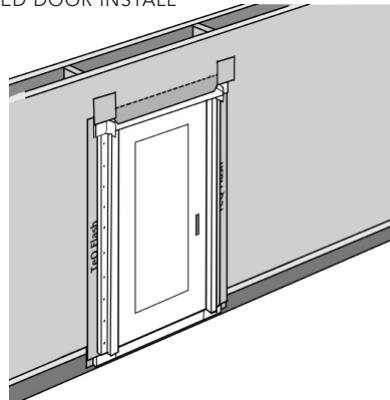
BRICKMOLD DOOR INSTALL



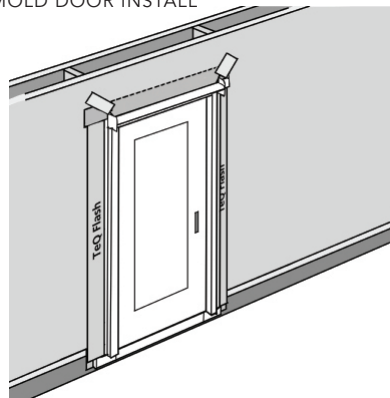
11. FOLD DOWN TOP FLAP OF WEATHER RESISTANT BARRIER

- 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.

FLANGED DOOR INSTALL



BRICKMOLD DOOR INSTALL



12. INTERIOR SEAL



It is critical to fill the exterior 2" of the rough opening with low expansion foam.

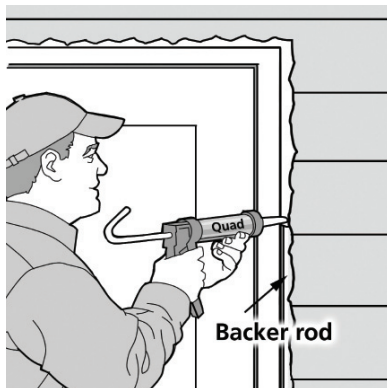
The interior of the rough opening could be filled with foam or fiber glass.

OSI TEQ FOAM™ APPLICATION

- Using the OSI TeQ Foam™ Applicator and OSI TeQ Foam™, low pressure foam, carefully apply foam around the three sides.
- From the interior, insert the nozzle of the applicator into the rough opening, hold the tip of the nozzle 1" (25mm) back from the exterior nail flange and apply a minimum 2" (50mm) bead of foam into the rough opening on top and both sides.
- Check and re-check to make sure that the foam has made complete contact between the door and framing to both surfaces. If any voids, reapply OSI TeQ Foam.™
- **Important:** At this point, from the interior side, check the sill pan and make sure any voids are sealed where the door and upturned leg meet.

Loewen

13. SEAL THE EXTERIOR AT THE FACADE



- Exterior Facade should allow for 3/8" void at the perimeter of the door 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.

ADDENDUM: INSTALLATION INSTRUCTION SILL SUPPORT SCREW FOR 1/5 FRENCH DOOR PRODUCTS

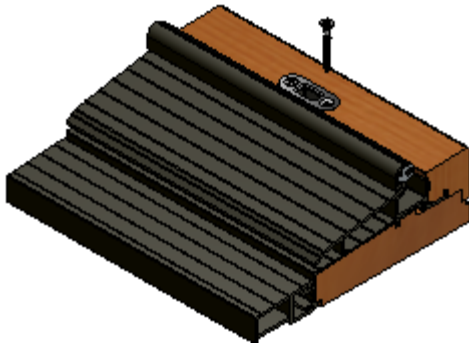


STEP 1. PREPARING THE UNIT FOR INSTALLATIONS

Install door into wall structure as per standard Loewen instructions considering any local code requirements.

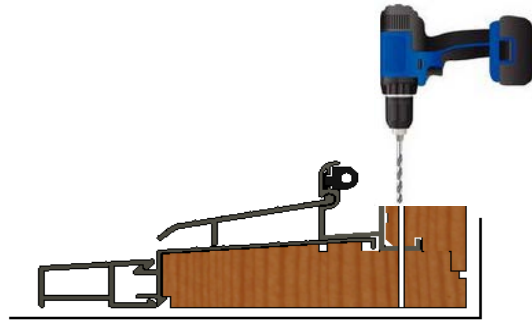
STEP 2. REMOVING SCREW TO STRIKE PLATE

Remove one of the two screws that secure the sill Strike Plate to the sill.



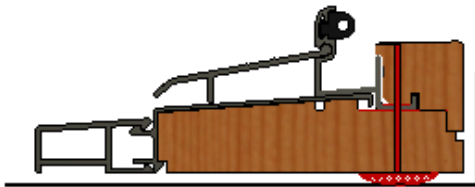
STEP 3. PRE-DRILL FOR SEALANT INJECTION

Using a 1/8" diameter drill bit, enlarge the hole for the screw removed in Step 2. **Note:** The hole should reach to the underside of the door sill.



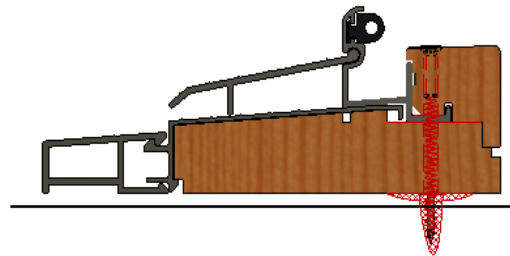
STEP 4. SEALANT INJECTION

Using a high quality silicone sealant, inject sealant into the hole applied in Step 3. **Note:** Ensure enough sealant is injected into the hole to provide a seal around the screw and between the underside of the sill and wall structure.



STEP 5. SECURING THE SILL

Using the screw supplied with these instructions, re-install the screw through the sill strike plate and into the wall structure beneath the sill.



STEP 6. FINAL REVIEW & ADJUSTMENTS

Review the clearances between the door panel and frame ensuring they are even and that the door operates freely. Adjust the sill screw as needed to ensure proper clearance between the panel sweep and sill.



STEP 7. CLEAN-UP

Clean-up any sealant residue on the sill and strike plate being careful not to contaminate any wood surfaces.

LOEWEN is not responsible for deficiencies in building design, construction and maintenance and/or failure to install products in accordance with Loewen installation instructions. The determination of the suitability of all building components, including the use of products, as well as the design and installation of flashing and sealing systems, are the responsibility of the Buyer or User, the architect, contractor, installer, or other construction professional and are not the responsibility of **LOEWEN**.



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

Homeowner

Company _____

Street/Lot # _____

Street _____

City _____

City _____

State _____ Zip _____

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 2012/04/17



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



Distributed by Loewen Inc. in the U.S. and C.P. Loewen Enterprises Ltd. in Canada and internationally.
Trademarks owned by C.P. Loewen Enterprises Ltd. Used under license. ©2006 C.P. Loewen Enterprises Ltd.
All rights reserved.



SW-COC-1739



Recycled Paper
Printed in Canada
September 2006
P1015A