Windows & Doors

Ryan Homes

Welcoming families home
for over 65 years.

2300Vinyl

Single Hung Windows

NVR

PLY GEM WINDOWS

2300 Single Hung Windows

When you build a lot of homes, you expect a lot from your windows. Quality. Performance. Value. A company you can count on. Our new 2300 vinyl windows offer all that and more. Including a full range of options to meet your every need.

FRAME Style

Brickmould. The perfect trim solution that adds lasting durability, and can be used in a variety of architectural styles, complementing any home.

WINDOW Anatomy

Standard

H-LC 35 CERTIFIED

Optional Upgrade

H-LC 50 CERTIFIED

20 YEAR GLASS WARRANTY

LIMITED LIFETIME WARRANTY

Upgrade your view

- High performance in a builder's window
- Traditional frame design
- GBG grilles
- Forced-Entry Resistant lock
- Egress Size: 3052SH
- Limited Lifetime Warranty

COLOR Options

GRILLE Type

Also available with no grilles.

GBG Grille

3/4" Flat

ONE Package

HP SC GLASS

ARGE TECHNOLOGY

HP (high performance) Glass packages combine Low-E with argon gas fill and Warm Edge spacer options, providing high-performance insulating glass to meet your specific needs. HP SC (solar cooling) glass packages are for regions with significant inadoor cooling and glare reduction requirements.

Values reflect units tested with 7/8" IGU, 3mm glass, no grilles, reinforced lock and keeper rails.

EasyInstall

for a quick, correct fit

- Alignment clips
- Integral mull
- Removable meeting rail
- Double utility trim
- Integral J-channel
- Drywall return
- Accessory grooves
- Protective construction film

WINDOW Highlights

Jamb Alignment Clips

- Enables one person to center smaller windows
- Helps prevent over-shimming

Removable meeting rail

- Easy to remove (one screw per end)
- No loose parts–unique clip and anchor Ideal for drywall applications

Recessed tilt-latch

- Sleek, unobtrusive design
- Dead-bolt action locks securely
- Enclosed mechanism does not collect construction debris

Interlock sash design

- Integral sash interlock with dual pile weatherstripping blocks drafts
- Improves structural performance

Forced-Entry Resistant Locks

- Durable color-matched cam locks
- Meets new AAMA Forced-Entry Requirements
- Optional auto-lock

WINDOW Specs

FRAME
3 1/2″ dual wall Brickmould frame depth
1 3/8″ Nail Fin Set Back
Interior glazed top glass
Exterior glazed bottom glass
Fusion-welded frame and sash
Sloped sill

SASH
Interlock sash design with dual pile weatherstripping
Tilt-latch for easy cleaning of exterior glass
Inverted block & tackle
Dual lift rails for easy operation
Half Screens (shipped separately or installed)

GLASS
Dual pane IG units
Optional Warm Edge+ spacers
Configurable STC values
H-LC50 performance upgrade
Impact, tempered, obscure and rain options
Easy Clean option

GRILLES
GBG (Grilles Between Glass) 3/4″ Flat
Colonial, Plaza, Prairie, Diamond, Gothic patterns available

LOCKS
Standard Forced-Entry Resistant cam lock
Self-latching auto lock option

COLOR
White or Beige

1 Select a color.

2 Add character with grilles and shapes.

Choose from a variety of distinctive looks.

3 Multiply the effect.

Combine fixed and operating windows to make a dramatic statement.

4 Enjoy the view.

For more information, call 888-9PLYGEM.

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Ply Gem Windows
Warranty Registration Data Center
P.O. Box 787
Wexford, PA 15090-0787

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NEW CONSTRUCTION
WINDOWS

VINYL WINDOWS

2300 VINYL COLLECTION

PLY GEM
WINDOWS

WINDOWS CONSUMER LIFETIME

LIMITED WARRANTY

PLY GEM WINDOWS 2300 SERIES VINYL WINDOWS LIMITED LIFETIME WARRANTY

Ply Gem Windows does hereby provide the following limited warranty with respect to the Ply Gem Windows' 2300 Series vinyl windows, subject to the terms, conditions and limitations set forth herein.

The Ply Gem Windows Limited Lifetime Warranty Promise: For as long as you own and reside in your single-family home into which Ply Gem windows were initially installed ("Lifetime"), upon notice from you as required herein, Ply Gem Windows will, at no charge to you, provide components needed to correct any of the following conditions if it is directly caused by a defect in the product as manufactured, as determined by Ply Gem Windows, and has resulted in a significant impairment in operation and usage:

A. VINYL COMPONENTS: Chipping, cracking, peeling, pitting, blistering, and corrosion, under normal use and proper care. Replacement vinyl components may vary slightly in color or gloss in comparison to the original vinyl components and Ply Gem Windows shall not be responsible or liable as a result of such variance.

B. CO-EXTRUDED CAPSTOCK EXTERIOR COLORS: Excessive fading and uneven weathering, under normal use and proper care, for period of fifteen (15) years from the original date of manufacture. "Excessive fading" is more than normal weathering (see below) which is in excess of a Delta E of 6 Hunter units, as determined by Ply Gem Windows, following the initial installation of the product, and "uneven weathering" means uneven or non-uniform change in color of contiguous elements under uniform, even and equal exposure to sunlight, natural radiation, rain, natural variations in temperature and other atmospheric conditions; provided that any excessive, uneven or abnormal fade or weathering is not due to a build-up or accumulation of stains, dirt, mold, mildew, or any other factor caused by the lack of at least an annual preventative maintenance by the Owner.

C. GLASS QUALITY AND BREAKAGE: Stress cracks, scratches, blemishes, chips and distortion in the glass for one (1) year from date of manufacture. Glass imperfections shall not be covered unless they exceed the allowable level specified by ASTM C1036 or ASTM C1048 whichever is applicable.

D. HARDWARE AND INSECT SCREENS: Failure or breakage of locks, balances, and handle sets under normal usage and proper care, and failure by deterioration of insect screens or frame under normal usage and proper care. Loss of function of stainless hardware in a corrosive environment within ten (10) years of date of installation is covered. Ply Gem Windows' obligation with respect to insect screens is limited to providing screen material. Insect screens are intended to impede intrusion of insects and are not intended to keep persons or animals in or out. Ply Gem Windows makes no warranty that insect screens will keep persons or animals in or out and shall have no responsibility for damages or injuries arising or resulting from a failure or insect screens to keep persons or animals in or out.

E. INSULATING GLASS UNIT (IGU): Condensation on the inner glass surfaces due to a failure of the IGU seal for twenty (20) years from the date of manufacture. Condensation on any external glass or frame surfaces is due to relative humidity, shall not constitute a defective product condition and is not covered by this warranty.

LABOR: Ply Gem Windows may provide, at its discretion, Skilled Labor necessary for repair or replacement of affected components for a period of one (1) year from the date of installation. Skilled Labor includes only work in which specialized product knowledge or methods are required to complete a repair and does not include any repair, refinishing, or refurbishment or materials beyond the affected Ply Gem Windows component.

SINGLE-FAMILY HOME: The warranty for Ply Gem Windows' 2300 Series windows in a single-family home application is made solely to the original consumer-purchaser of Ply Gem Windows' 2300 Series windows who both owns and resides in the single-family home into which they are initially installed and it shall continue for such time as both that ownership and residence are maintained ("Owner"). If the Owner sells or otherwise transfers the home before 20 years has elapsed after the date of product installation, Ply Gem Windows will automatically extend full coverage under this warranty to the first subsequent owner, and any later owners, until the 20th anniversary of the product installation.

MULTI-FAMILY / COMMERCIAL: The warranty for Ply Gem Windows' 2300 Series windows in a multi-family, non-owner occupied or commercial application (such as condominiums, rental properties, apartments, office buildings, schools, churches, government buildings, etc.) is solely to the owner of the property at the time they are initially installed and shall continue for a period ten (10) years from the date of product manufacture. The multi-family commercial warranty is non-assignable and is not subject to voluntary or involuntary transfer and is subject to the warranty limitations herein.

Registration: Owner must complete and submit the warranty registration card within ninety (90) days of the date of product installation.

Notice of Claim: Owner must individually provide written notice under this warranty within thirty (30) days of product failure to:

PLY GEM WINDOWS
Warranty Registration Data Center
P.O. Box 787
Wexford, PA 15090-0787

Each of Owner's names, property identification, proof of status as Owner, proof of purchase, date and place of purchase, date of installation, a description of the product and a description of the issue must be included.
PLY GEM WINDOWS SHALL HAVE NO OBLIGATION WHATSOEVER WITHOUT PROPER NOTICE FROM OWNER AND AN OPPORTUNITY TO RESPOND.

Upon proper notice, Ply Gem Windows shall be afforded the opportunity to inspect or take other action necessary to formulate a response. Owner agrees to pay a fee for the costs of an inspection which reveals that no action is called for under this warranty. If action is required, Ply Gem Windows shall have the sole discretion to either provide replacement components or perform a component repair. In no event shall Ply Gem Windows be liable for the costs of repair not provided by Ply Gem Windows or any shipping costs.

In the event of repair or replacement under this warranty, the warranty applicable to the replacement components or products or to the repaired components or products will extend only for the time remaining under the original warranty.

Limitations on Scope of Warranty: Ply Gem Windows shall have no obligation to address any condition not directly caused by a defect in its product as manufactured. Any Ply Gem Windows' obligation is contingent upon proper installation per manufacturer's instruction and good building practice, normal product use, maintenance and proper care by Owner. Products that have been altered, modified or subjected to unauthorized repair, including, but not limited to, products to which films have been applied, products to which paint has been applied (other than by Ply Gem Windows) or products to which non-standard parts have been added, shall be deemed outside of this warranty and Ply Gem Windows shall have no obligation with respect to them.

Ply Gem Windows makes no warranty and will have no responsibility with respect to: an IGU with any post-manufacture film or coating applied; deflection in glass surface due to temperature or barometric pressure; the level of fill or retention of gas in a particular gas-filled IGU; or any installation over 5,500 feet above sea level unless a factory installed capillary tube is properly utilized. Any IGU having a capillary tube will not be gas filled. An IGU having specialized glazing products (such as laminated, V-grooved, and decorative glass) or custom glass options not within Ply Gem Windows' literature at time of order are warranted for a period of ten (10) years from the original date of manufacture.

None of the above warranties cover normal wear or conditions caused by: aging; normal deterioration; accident; misuse; abuse (including contact with corrosive or abrasive products or other harmful chemicals, such as brick wash); neglect; mishandling; vandalism; lack of maintenance; improper care; improper or harmful cleaning; acts of God; acts of nature; fire; pollutants in the atmosphere; airborne stains, mold and mildew accumulation; warping or distortion due to exposure to excessive heat sources, unusual or excessive reflective heat sources, or excessive heat or solar radiation at altitudes above 5,000 feet above sea level or in extreme desert climates with prolonged elevated daily ambient temperatures and solar exposure; ripped, torn, punctured or creased screens from any cause whatsoever; or any other cause or damage beyond the control of Ply Gem Windows.

While vinyl and cap-stocked vinyl typically maintain the manufactured color closely as it ages, exposure to the elements will cause gradual change over time, and normal weathering is not covered by this warranty. Periodic cleaning of the vinyl surfaces with a mild soap or detergent will help prolong the original color and help protect against excessive fade and color change. Fade, discoloration or color variance attributable to atmospheric pollution or a build-up or accumulation of stains, dirt, residues, mold, mildew or any other deficiency caused by the lack of at least annual preventive maintenance by the Owner is not covered by this warranty.

Caulking is sometimes used to seal the frames or trim packages from water and/or air penetration. Caulking is not considered part of the product and is not covered under this warranty. Caulking is considered a maintenance responsibility of the homeowner.

Ply Gem Windows does not warrant any installation or any defects attributable to installation.

Ply Gem Windows reserves the right to discontinue or make changes in any of its products, including color changes. In the event the products covered by these warranties are not available, Ply Gem Windows reserves the right to substitute a product or component that, in Ply Gem Windows' sole discretion, is of substantially equal quality or price and shall not be liable as a result of any difference.

No dealer or distributor is authorized to change or add to this warranty. Proof of purchase and ownership must be supplied for all warranty claims. Owner agrees that no action or inaction of Ply Gem Windows shall constitute a waiver.

IMPORTANT OWNER INFORMATION:
EXCLUSIVE REMEDY: THIS WARRANTY IS THE EXCLUSIVE OWNER REMEDY. IT SHALL OPERATE IN LIEU OF ALL OTHER REMEDIES, WARRANTIES OR CLAIMS IRRESPECTIVE OF SOURCE AND PLY GEM WINDOWS' NEGLIGENCE.

LIMITATION OF REMEDIES: IN NO EVENT SHALL PLY GEM WINDOWS BE LIABLE FOR ANY LOSS OF USE, LOST PROFIT, DIMINUTION IN VALUE, INCIDENTAL, CONSEQUENTIAL, SPECIAL, INDIRECT, EXEMPLARY OR PUNITIVE DAMAGE OF ANY KIND. UNDER NO CIRCUMSTANCE SHALL PLY GEM WINDOWS BE LIABLE FOR AN AMOUNT EXCEEDING THE PURCHASE PRICE OF THE AFFECTED COMPONENT.

ADDITIONAL DISCLAIMER: THIS IS THE SOLE WARRANTY FOR PLY GEM WINDOWS' WINDOW AND DOOR PRODUCTS. ALL OTHER WARRANTIES, INCLUDING OF MERCHANTABILITY AND FITNESS FOR PURPOSE, ARE DISCLAIMED AND EXCLUDED. COURSE OF DEALINGS, CUSTOM AND USAGE, STATEMENTS, LABELS, ADVERTISING AND PRODUCT REPRESENTATIONS OF ANY KIND SHALL NOT EXPAND THE SCOPE OF THIS WARRANTY. Where these limitations are prohibited or otherwise altered by mandatory legal provisions, the warranty shall remain effective to the full extent of the law. This warranty gives you specific legal rights and you may also have other rights that vary from state to state.

OWNER AGREES THAT ANY OBLIGATION OF PLY GEM WINDOWS WITH RESPECT TO ITS PRODUCTS IS CONTINGENT UPON NOTICE AS DEFINED HEREIN AND PLY GEM WINDOWS' OPPORTUNITY TO RESPOND.

Product Ratings: Ply Gem Windows' products are often designed and tested in accordance with required standard procedures established by industry association such as the American Architectural Manufacturer's Association (AAMA) and the National Fenestration Rating Council (NFRC). These measure performance of sample products in a laboratory-type setting. To pursue consistency, Ply Gem Windows manufactures its products for sale utilizing the same methods and materials as in fabrication of a product for testing. All product components and manufacturing processes, however, involve an inherent range of tolerance. These and other factors can result in some variance among individual product performance.

WARRANTY REGISTRATION CARD

To assure full warranty benefits, please complete and mail this card. The information will help us process warranty claims smoothly, and provide us with important marketing information on our valued customers.

HOMEOWNER INFORMATION

Name _____
Street _____
City_____State _____Zip_____
Phone _____

BUILDER INFORMATION

Name _____
Street _____
City_____State _____Zip_____
Phone _____
Date of Installation _____

Is this your first purchase of Ply Gem Windows products?
☐ Yes ☐ No

Type of project:
☐ New Construction ☐ Replacement ☐ Remodel/Room Addition

How old is your house: _____years

Square Footage of Your Home:
☐ Less than 1,800 ☐ 1,801–2,500
☐ 2,501–3,500 ☐ Over 3,500

Product Series Purchased: (Check all that apply)
☐ 2300 Series

Product Style(s) Purchased: (Check all that apply)
☐ Single Hung ☐ Casements ☐ Round/Elliptical Tops
☐ Double Hung ☐ Awnings ☐ Special Shapes
☐ Sliding Window ☐ Patio Door

Glass Type: (Check all that apply)
☐ Clear Glass ☐ HP Glass ☐ Obscure
☐ Low-E ☐ HP^{SC} Glass ☐ Tempered
☐ Low-E^{SC} ☐ GBG

Why Did You Select Ply Gem Windows Products? (Check all that apply)
☐ Advertisements ☐ Price
☐ Product Variety ☐ Low Maintenance
☐ Warranty ☐ Overall Quality
☐ Builder's Decision ☐ Style/Aesthetics
☐ Energy Efficiency ☐ Recommended by Dealer

NVR 2100 Series Window Warranty Label

- Order and line number from the warranty label (see below for warranty label layout)
- If the window is a Picture or Palladian style window, the Single Hung windows should have the same order number.

433 N. Main Street – PO Box 559
Rocky Mount, VA 24151
p: 540-483-0211
www.plygem.com

2300 SCREEN REMOVAL PROCESS

Instructions	Visual	Correct	Incorrect
1. Completely open sash. The handle of the lock should go unobstructed into the pocket of the frame head. The lock body should be what comes into contact with the frame head preventing further operation.		Correct Position of Lock into Frame: 	Incorrect Position of Lock into Frame: (Lock handle not in fully open position causing handle to contact frame causing the lower sash to not be as high as possible in order to remove screen)
2. Detent the screen clips one side at a time starting at the top. Detent the top left screen clip and using the "screen pull", pull the screen to the interior of the home until the clip is bypassed.		Screen Clip Correctly Installed: 	Screen Clip Incorrectly Installed:
3. Keep inward pressure using the top "screen pull" and detent the bottom left screen clip until the clip is bypassed.			
4. Repeat steps 2 and 3 on the right side until all clips are bypassed.			

5. Rotate the top of the screen inward until the sash is cleared. Pull the screen up and out of the window.			

BUILDER SERIES

WINDOWS

PLY GEM WINDOWS

4710/4712 SERIES SINGLE HUNG

ALUMINUM WINDOWS

www.plygemwindows.com

4710/4712 SERIES SINGLE HUNG

ALUMINUM WINDOWS

20 YEAR GLASS WARRANTY

STANDARD FEATURES

- Virtually maintenance-free extruded aluminum construction with electrostatically applied finish
- Sleek profile provides larger viewing area
- Interior glazing allows for easier glass replacement
- Side load removable bottom sash
- Block and tackle balance system
- Energy-efficient Warm Edge insulating glass
- Sloped sill allows for proper water drainage to the exterior
- Structural meeting rail provides rigid stability and allows for a tighter, weather-resistant unit
- Frame depth available in 2 7/16
- Dual lift rails on bottom sash for easy operation
- Flange (shown) or integral nailing fin for simple installation

WARM EDGE TECHNOLOGY

OPTIONS

1 LOW-E GLASS

2 LOW-E^{SC} GLASS

3 HP GLASS

4 HP^{SC} GLASS

5 FLORIDA APPROVED

6 IMPACT RATED

GLASS OPTIONS:
Low-E, Low-E^{SC}, HP, HP^{SC}, obscure and tempered

GRILLE OPTIONS:
Color-coordinated grilles-between-the-glass (GBG) in 5/8" and 3/4" flat

PRODUCT CONFIGURATION:
Matching side lites, fixed panels, transoms, segmented transoms and a wide selection of architectural shapes

HARDWARE OPTION:
Safety vent latch to meet ASTM F2090-2008 requirements

COLOR OPTIONS:

WHITE | ADOBE GREY | BRONZE

NOTE: Colors shown are close approximations and may not be accurate representations for color matching. Please request color swatches from your Ply Gem sales representative to do so.

4710 SERIES THERMAL PERFORMANCE

		NFRC CERTIFIED		
	R Value	U Factor	SHGC	VT
WARM EDGE				
3/4" Clear	1.49	0.67	0.64	0.67
3/4 Low-E	1.89	0.53	0.31	0.57
3/4 Low-E^{SC}	1.89	0.53	0.24	0.45
3/4" HP Glass	1.92	0.52	0.31	0.57
3/4" HP^{SC} Glass	1.96	0.51	0.24	0.45

4712 SERIES THERMAL PERFORMANCE

		NFRC CERTIFIED		
	R Value	U Factor	SHGC	VT
WARM EDGE				
3/4" Clear	1.47	0.68	0.65	0.67
3/4 Low-E	1.85	0.54	0.31	0.57
3/4 Low-E^{SC}	1.85	0.54	0.24	0.45
3/4" HP Glass	2.00	0.50	0.31	0.57
3/4" HP^{SC} Glass	2.00	0.50	0.24	0.45

All units are NAMI certified and rated in accordance with NFRC 100/200 standards by an AAMA accredited lab. Performance values reflect the performance of units tested with the following configuration: IGU specified in chart, 3mm glass and no grilles.

R VALUE: Restrictive ambient air flow; U FACTOR: Rate of heat loss; SHGC: Solar Heat Gain Coefficient; VT: Visible Transmittance

SINGLE HUNG SELECTION GUIDE

SERIES	NAIL FIN SETBACK	R50	HIGH WIND ZONE	FLORIDA APPROVED	CONSTRUCTION TYPE: SIDING	BRICK	BLOCK	EIFIS
4710F	1 3/8"		●	●	●	●		●
4710FL	FLANGE		●	●			●	
4712F	1 3/8"	●	●	●	●	●		●
4712FL	FLANGE	●	●	●			●	

1. Available Low-E option.
2. Optional Low-E^{SC} features Solar Cooling optimized Low-E for warmer climates.
3. Optional HP Glass combines Low-E with argon gas fill for high performance.
4. Optional HP^{SC} Glass combines Solar Cooling optimized Low-E with argon gas fill for high performance for warmer climate zones.
5. Meets Florida building codes for certain zones. Consult your local codes for specific requirements.
6. Impact Rated units are available in select sizes and configurations.

PLY GEM
BUILDING PRODUCTS. BUILDING SUCCESS.

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Warranty Registration Data Center
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Wexford, PA 15090-0787

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BUILDER SERIES
WINDOWS

ALUMINUM WINDOWS

BUILDER 37/47/4800® SERIES

PLY GEM
WINDOWS

WINDOWS & PATIO DOORS
CONSUMER LIMITTED WARRANTY

EAST

BUILDER 37/47/4800® SERIES ALUMINUM WINDOWS & PATIO DOORS CONSUMER LIMITED WARRANTY

This Limited Warranty covers 3710 single hung, 3752/53 single hung, 3724 sliding window, 3780 sliding patio door, 4710 single hung, 4720 sliding window, 4780 sliding patio door, 4810 single hung and 4820 sliding window series products and extends only to the Original Purchaser. This Limited Warranty cannot be assigned or transferred by operation of law or otherwise and shall not be extended to any subsequent owners.

WINDOW and DOOR

Ply Gem Windows, warrants, subject to the conditions and restrictions contained herein, that Ply Gem Windows fenestration products shall be guaranteed against defects in materials and workmanship for a period of one (1) year. This warranty does not include parts that have been abused, misused or not used for the purpose intended nor parts that have been damaged in shipments that are not the responsibility of Ply Gem Windows.

INSULATED GLASS

Ply Gem Windows insulated glass units to which this Limited Warranty applies contained in insulated glass windows and doors manufactured by Ply Gem Windows, shall be free from material obstruction of vision as a result of film accumulation on interior glass surfaces resulting exclusively from failure of the hermetic edge seal (from sources other than glass breakage or cracking) due to faulty manufacture by Ply Gem Windows for a period of ten (10) years from date of manufacture of the Ply Gem Windows insulated window or door containing the unit.

If the unit fails to perform in accordance with the above statements during the applicable warranty period, Ply Gem Windows shall, upon written notification and validation of the complaint by inspection by its designated representative, supply a replacement for the non-conforming unit or grant a credit for a portion of the cost of the unit, as hereinafter specified. Ply Gem Windows' obligation under this Limited Warranty is to supply a replacement unit for the non-conforming unit FOB Ply Gem Windows' nearest active dealer to the installation during the first year of the Limited Warranty period. During the second year through the end of the tenth year of the Limited Warranty period, Ply Gem Windows' obligation is to issue a credit to the Original Purchaser toward purchasing a replacement unit manufactured by Ply Gem Windows.

Labor of any kind or other costs to remove the non-conforming unit and/or to install the replacement unit is not included in this Limited Warranty. Ply Gem Windows shall bear no other expense of any kind and the Original Purchaser's exclusive remedy shall be replacement or credit on the basis stated. The Original Purchaser shall pay any and all labor costs necessary to install replacement units.

This Limited Warranty is void, and Ply Gem Windows shall not be obligated to replace any unit or provide a credit for any unit where the necessity of such replacement in Ply Gem Windows' opinion, is due in whole or in part to improper installation of the Ply Gem Windows insulated window or door containing the unit, maintenance or service, modification or alteration or accident, involving the unit. Additionally, this Limited Warranty shall not apply to (i) a unit sold or installed outside of the United States, (ii) a unit damaged in handling and/or installation, (iii) a unit that is subjected to stresses resulting from localized application of heat causing excessive heat differentials over the surface or edges of the glass, (iv) seal failures due to faulty or improper installation, (v) use of unapproved exterior applied agents (e.g., unapproved cleaning agents, oil based compounds, etc.), (vi) any installation in excess of 6,000 feet above sea level of any unit without proper capillary breather tubes, (vii) in the event of application of films or decorations (e.g., sun-absorbing or reflective films or decorative substances), (viii) a unit installed in a high vibration area (e.g., airports) or a high moisture area (e.g., swimming pool or spa enclosures), where there is excessive vibration of the building or foundation or abnormal moisture or chemical environments, (ix) a unit sold or installed in an excessive saline environment, or (x) a unit that has been subjected to pressure cleaning.

If Ply Gem Windows supplies a replacement unit, the Limited Warranty of the replacement unit will extend for the time remaining on the original Limited Warranty hereunder and the warranty period will not be extended. In all cases, the date of manufacture of the Ply Gem Windows insulating window or door containing the unit to the date that the claim is made will govern the extent of the coverage under the Limited Warranty.

Ply Gem Windows reserves the right to discontinue or make changes in the unit and/or in any of its insulating windows or doors or any other products. If the unit covered by this Limited Warranty is not available, in the event of replacement of a non-conforming unit, Ply Gem Windows shall have the right to substitute a replacement unit that in Ply Gem Windows' sole discretion is of equal quality or value.

Ply Gem Windows is providing an express Limited Warranty as set forth herein. Ply Gem Windows cannot and shall not be liable for a breach of any other written or oral express warranties, such as those, if any, given by dealers, contractors, applicators, installers or distributors of the units and/or of the Ply Gem Windows insulated windows or doors containing the units. ANY IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE, ARE LIMITED IN TIME TO THE DURATION OF THIS EXPRESS LIMITED WARRANTY. SOME STATES DO NOT ALLOW LIMITATIONS ON HOW LONG AN IMPLIED WARRANTY LASTS, SO THE ABOVE LIMITATION MAY NOT APPLY TO YOU. PLY GEM WINDOWS SHALL NOT BE LIABLE FOR ANY CONSEQUENTIAL DAMAGES OR INCIDENTAL DAMAGES FOR BREACH OF ANY EXPRESS, WRITTEN, ORAL OR IMPLIED WARRANTIES. YOUR EXCLUSIVE REMEDY SHALL BE REPLACEMENT OR CREDIT ONLY ON THE TERMS STATED IN THIS EXPRESS LIMITED WARRANTY. SOME STATES DO NOT ALLOW THE EXCLUSION OR LIMITATION OF INCIDENTAL OR CONSEQUENTIAL DAMAGES, SO THE ABOVE LIMITATION OR EXCLUSION MAY NOT APPLY TO YOU.

This Limited Warranty gives you specific legal rights. You may also have other rights, which vary, from State to State.

HOW TO MAKE A WARRANTY CLAIM

To make a warranty claim write to the address on this warranty describing the product and the product failure, including the date and place where you purchased the product. The claim must be made within 30 days after the product failure occurred. Ply Gem Windows reserves the right to inspect any product that is the subject of a warranty claim before honoring the claim.

To assure full warranty benefits, please complete and mail this card. The information will help us process warranty claims smoothly, and provide us with important marketing information on our valued customers.

HOMEOWNER INFORMATION

Name _____

Street _____

City_____State _____Zip_____

Phone _____

BUILDER INFORMATION

Name _____

Street _____

City_____State _____Zip_____

Phone _____

Date of Installation _____

Is this your first purchase of Ply Gem Windows products?

☐ Yes ☐ No

Type of project:

☐ New Construction
☐ Remodel/Room Addition
☐ Window Replacement

How old is your house: _____years

Square Footage of Your Home:

☐ Less than 1,800 ☐ 1,801–2,500
☐ 2,501–3,500 ☐ Over 3,500

Product Style(s) Purchased: (Check all that apply)

☐ Single Hung ☐ Round/Elliptical Tops
☐ Sliding Window ☐ Special Shapes
☐ Patio Doors

Glass Type: (Check all that apply)

☐ Clear Glass ☐ Tinted ☐ GBG
☐ Low-E ☐ Obscure
☐ Low-E^{SC} ☐ Tempered

Why Did You Select Ply Gem Windows Products? (Check all that apply)

☐ Advertisements ☐ Price
☐ Product Variety ☐ Low Maintenance
☐ Warranty ☐ Overall Quality
☐ Builder's Decision ☐ Style/Aesthetics
☐ Energy Efficiency ☐ Recommended by Dealer

PLY GEM WINDOWS

VINYL WINDOWS

CARE & MAINTENANCE

It's more than a window. It's a whole new point of view. At Ply Gem Windows, we believe you should have access to all the top quality styles and brands you need to bring your vision to life. That's why we are committed to providing you with more features, more looks and more options. From smart, sustainable features to custom shapes, we'll help you find a look you'll love and a look that will match your home.

And, because we're part of the Ply Gem family, you'll always have access to leading brands. Windows, doors, siding and accessories, stone veneer, fence and rail, rainware, shutters and designer accents, we have something for every project. Realize your vision today with Ply Gem Windows.

www.plygemwindows.com

Windows Siding Stone Veneer Fence+Rail Accents

PLY GEM

Keep your windows looking and working great

PGW-WGLCMV-0310-BC-REV.A

CARE AND CLEANING OF VINYL WINDOWS

(Single Hung, Double Hung, Casement and Sliding Windows)

Congratulations on your selection of windows from Ply Gem Windows... the most advanced replacement windows available in today's market. These windows are engineered to seal out water and air, and provide maximum energy efficiency for your home.

Cleaning windows has never been easier. The upper and lower sashes tilt inward so all glass may be cleaned from inside your house. The material used in your windows is vinyl, which will not rot, peel or swell, regardless of the weather conditions.

CARE OF VINYL

The natural lubricating ability of vinyl prevents dirt, grease or stains from penetrating the surface. But, as with any window, abrasives can dull the finish. Simply use soap and water or a cream wax cleaner or polish for every day cleaning. Other cleaners including turpentine or denatured alcohol are also acceptable. For stubborn spots, a non-abrasive household cleanser is best. Slight scratches can be polished out with a small amount of scouring powder. Finish off with cream wax or polish.

CARE OF SCREENS

Because our screens are made of the best materials available, your screen never has to be removed unless desired. Your screens can be sprayed with water or vacuumed clean.

DOUBLE HUNG WINDOWS

You may clean your windows with soap and water or any common glass cleaning agent. The same recommendation applies if you have windows with Advanced Easy Clean Glass.

***To Tilt in Bottom Sash**: Raise the bottom sash approximately three (3) inches from the sill. With fingertips, slide tilt latches on both sides of the sash and tilt the sash inward. When washing, rest the center of the sash on your knee or the sill. DO NOT lay the corner of the sash on anything that will leave the other corner unsupported.

***To Tilt in Top Sash**: Pull the top sash down until the sash stops. Slide the top sash latches toward the center and tilt the sash inward. Clean the top sash as you cleaned the bottom sash.

SECURING SASHES AFTER CLEANING

After cleaning, tilt the sash back into place. Make sure the latches have also been sprung back into place. Push the top sash up into place, and check again to see that the bottom sash is in place. When tilting the sashes inward, keep each sash parallel to the sill to avoid any balance disengagements.

Should a balance disengagement occur, please all Ply Gem support at 888-9PLYGEM or email them at support@plygeminfo.com. They will gladly assist you with any questions.

*NOTE: Not all double and single hung products have a tilt latch option. Please consult your authorized Ply Gem Windows dealer or contractor for questions regarding your specific windows. For windows with a tilt option, your dealer or contractor can demonstrate the proper tilt and sash removal/reinsertion process for cleaning.

CLEANING GLASS ON SINGLE HUNG AND DOUBLE HUNG WINDOWS

HOW TO TILT FOR CLEANING

Each double hung window comes with two tilt latches* (surface mounted or recessed) on each operating sash.

A single hung window comes with two tilt latches on the bottom sash only.

Raise the bottom sash about three (3) inches. Using both hands as shown, disengage the tilt latches on both sides simultaneously. While holding the latches with your thumbs, gently pull the top of the sash toward you until the latches are clear of the frame. Holding the top of the sash, continue to lower it until you hear a "click." This "click" signifies that the balance locks have been engaged on both sides.

To tilt the top sash (on double hung windows only) lower it about three (3) inches also, and follow the same procedure as noted by Step 1.

To return either sash to its operating position, swing the sash back up and push the top of the sash gently until the tilt latches snap back into place in the side jambs.

HOW TO REMOVE* SASH

Each sash can be completely removed for glass replacement, balance service, or screen removal. Be careful when you remove the sash because they are heavy.

In the tilt position, lift and remove sash, as shown. Tilt the sash in so it is parallel with the floor. Lift the sash straight up and out.

To restore the sash, reverse the procedure above being careful to insert the pin into the balance shoe. Insert the pin on the lower side, then insert the pin on the upper side and straighten the sash back into its level, operating position.

If a balance lock needs to be moved, or repositioned when the sash is removed, a flathead screwdriver can be used to operate the lock and move the balance up and down to position it for pin insertion.

CAUTION: The balances are pre-tensioned to operate with the weight of the sash. With the sash removed the balances will snap up if the balance lock is disengaged. Make sure the lock is engaged before removing the sash. If it does snap up, place the head of the flat-head screwdriver in the tilt pin hole, pull the lock down to extend the balance, and twist the screwdriver ¼ to ½ turn until the lock "clicks."

*NOTE: Not all double and single hung products have a tilt latch option. Please consult your authorized Ply Gem Windows dealer or contractor for questions regarding your specific windows. For windows with a tilt option, your dealer or contractor can demonstrate the proper tilt and sash removal/reinsertion process for cleaning.

CLEANING GLASS ON CASEMENT WINDOWS

HOW TO CLEAN YOUR WINDOW

Before you begin to clean your Casement Windows you'll need to push the screen clips in to disengage the screen from the window. Then, unlock the window by lifting the lock handle up. Crank the sash all the way to the open position.

Figure 1

Clean the exterior of the sash by reaching your arm through the space between the main frame and the sash.

When you're finished cleaning, make sure to close and lock the window by pushing the lock handle down.

CLEANING GLASS ON SLIDING WINDOWS

Sliding windows are built to slide from side-to-side in their own tracks. They can be removed from these tracks for cleaning.

HOW TO CLEAN YOUR WINDOW

To remove the interior sash, simply open the window and slide the interior sash all the way to the opposite side past the two anti-lift blocks. Lift the sash up into the header of the main frame as high as it will go. Pull the bottom of the sash toward you, releasing it from the frame track. Then, lower it gently.

To remove the exterior sash, slide the exterior sash all the way to the opposite side past the anti-lift blocks. Lift the sash up and then pull the bottom toward you to release it from the frame track. Then, lower gently.

To reinsert the sash, pick up the exterior sash first and place it into the top outer window frame track to the opposite side of the anti-lift blocks, lift upward and push outward. Slide the window sash all the way to the side. Place the head of the interior sash into the top inner window frame track to the opposite side of the anti-lift blocks and push into place. Slide the window closed and make sure to lock it.

Figure 1

OPERATION AND MAINTENANCE OF SLIDING PATIO DOORS

HOW TO CLEAN YOUR DOOR

The operating panels of your patio door are equipped with tandem steel rollers that move horizontally along a sill track. When the door is open to the outside, these tracks are exposed to the elements and can collect dust, dirt and debris. A semi-annual cleaning is recommended to prevent this material from disrupting the proper operation of the patio door system.

Your door features an anti-take-out device in the head that makes it virtually impossible to remove the active panel, even with the rollers in their lowest adjustment position.

The door's threshold with a stainless steel roller guide resists frost and condensation and can be cleaned with soap and water as needed.

Figure 1

IF YOU SEE WATER IN THE BOTTOM TRACK OR SILL AREA OF YOUR WINDOWS

There is no cause for alarm.

Your horizontally sliding Ply Gem Window is designed to evacuate water efficiently from this track area. As the drawing depicts, the shaded area (water) is draining from both the outer and inner track areas. Small amounts of water, during periods of rain, may be visible, however, this water will drain efficiently to eliminate any possibility of overflow and/or water entry into your living area. Additionally there are "weep cover" protectors installed to prevent water and wind damage during severe weather.

REVERSE OR OUTDOOR CONDENSATION AND YOUR WINDOWS

Condensation on the outdoor surface of an insulating unit is called reverse or outdoor condensation. It is not an indication that the glass or insulating unit is defective. Under the right set of atmospheric conditions, it is possible to get condensation on the exterior glass surface of an insulating glass unit.

Specifically, these conditions are as follows:

- Glass temperature below dew point temperature
- Clear night sky
- Still air
- High relative humidity
- Well-insulated glazings

Exposed to these conditions, the exterior surface of the glass can radiate heat away to the night sky such that the glass temperature falls below the dew point of ambient air. When this occurs, moisture from the air condenses on the glass surface. Only when the glass temperature rises above the dew point, will the condensation evaporate back into the air. Dew formation on grass, car hoods and roofs, building roofs and walls, is common and accepted as a fact of nature.

The presence of moisture indicates that the specific set of atmospheric conditions exist and that the insulating glass is indeed doing its job — that of insulating the building from the environment. In this case, that insulation capability is what impedes the flow of building heat through the glass and prevents warming of the exterior, above the dew point.

If exterior condensation occurs on insulating glass, there is little or nothing that can be done to prevent its recurrence. On some occasions, keeping draperies open to allow heat transfer through the glass has been known to reduce condensation.

PLY GEM WINDOWS

Legacy Products
Warranty Procedures

Within First Year After Installation

During the first year after installation, the NVR service representative will complete the NVR Field Service Request Form and submit to Legacy Products Customer Service. Ph (804) 739-9333; Fax (804) 739-5858. If covered under warranty, Legacy Products will arrange to have the defective item repaired or replaced.

After One Year up to Five Years After Installation

After the first year, the homeowner should contact Legacy Products directly and fill out an NVR Field Service Request From. Legacy Products will then determine whether the problem is covered under warranty. Legacy will offer to work directly with the homeowner or provide information for third party installers who can arrange to get the replacement directly from Legacy. If covered under warranty, Legacy Products will either repair or provide a replacement; however, the labor is not covered. If not covered, Legacy will provide the homeowner or the third party with a quote for the cost. If appropriate based on location of homeowner, Legacy's own internal service personnel can perform the work at our standard rates.

If there are any questions regarding a warranty issue, a representative from GemROI will make a site visit to the homeowner.

After Five Years From Installation

After five years, the homeowner should contact Legacy directly. The procedures are the same as After One Year with the exception that neither materials nor labor are covered under warranty.

Legacy Products
Product and Glass ID

All windows produced by Legacy Products (Legacy and Envision Windows) for NVR Building Products Company will have a label permanently affixed that will simplify product identification for all current and future warranty or service issues. The product ID label will contain NVR's part number and the beginning of the part description that identifies the unit. The windows will be marked as follows:

Glass ID

Legacy Products purchases insulated glass units from Cardinal Glass Industries or purchases glass and insulates it at Legacy's manufacturing plant. Glass insulated by Legacy will be etched with Legacy Windows and type of glass (LoE) and glass insulated by Cardinal will be etched with CARDINAL IG and various other information to identify the plant, certification info and date.

Tempered and Tempered Low-E Glass ID

All tempered and tempered Low-E glass for all window lines will have the glass ID information as well as the tempered glass information permanently etched in one corner of the glass unit. This information will appear as follows:

Cardinal IG (glass manufacturer)
Tempered (or 'Tempered Low-E')
CIG-05 (plant #)
ICCG CBA (cert. info.)
4-1 (qtr. & yr. of mfg.)

Glass replacement instructions for Legacy direct set Transoms

Broken or failed glass in Legacy direct set transoms can be replaced with either a new piece of glass, or a sash with glass, as is now currently being used on the sash set transoms. The sizing is the same. You would use the same procedure for either type of window. Wear glass approved safety gloves through the whole procedure.

1. Using a stiff putty knife or 5-n-1 tool, remove the interior stop. Pull any nails left in the frame with a pair of pliers. For safety, tack back the top piece of stop about 2" in from the glass. This will keep the glass from falling inside if it comes loose too quickly.
2. From the outside, using a utility knife or pizza style de-glazing tool, cut through the silicone sealant between the glass and blind stop. Once you have the sealant cut, remove the glass from the inside and dispose.
3. Clean the sealant from the inside of the blind stop. Apply a heavy bead of white silicone about ¼" in from the edge of the blind stop. Then seat the sash or glass in the window frame. Apply even pressure all the way around to make sure the unit is seated completely.
4. Re-install the interior stop using 1-1/4" trim nails.
5. Clean any excess caulk that squeezed out on the outside, then apply a small 1/8" cap bead of silicone around the perimeter of the joint between the glass and blind stop.

This completes the replacement procedure.

Legacy Products LLC

12727 Spec-Trim Lane
Midlothian, Virginia 23112

Warranty for

Legacy Products Windows

For NVR Building Products Company

General

Legacy Products warrants for a period of one year (12 months) after delivery, that our products are free from defects, workmanship, and materials under normal use and care. Legacy's obligation under this warranty is limited to replacement or repair, at Legacy's option. This warranty will be transferrable to future homeowners.

This warranty will be void if the product has been subject to misuse by negligence or accident (to include improper installation) or if it has been repaired or altered by any persons other than a Legacy Products authorized representative.

Frame and Sash

Direct set windows larger than fifteen (15) square feet are especially susceptible to water leakage caused by glazing failure during transportation and installation. Check for glazing failure after installation and before painting, then re-caulk with any quality silicone caulk.

Legacy Products will not warranty any window where glazing failure has been caused by improper handling and / or installation.

All windows must be flashed where necessary and be properly caulked to prevent leakage behind the brick mould. See flashing diagram.

Glass

Legacy Products warrants for a period of five years after delivery, that our glass is free from defects in workmanship and materials under normal use and care. Legacy's obligation under this warranty is limited to replacement or repair, at our option.

Storage and Handling

All windows should be stored in a dry location. Outside storage is acceptable as long as the windows are protected from direct inclement weather. Window frames that have been saturated with water are not covered. Any unit larger that 9 square feet (3' x 3') should be stored and transported standing up.

LIMITED 5 YEAR WARRANTY

LIMITED 5 YEAR WARRANTY

24-Gauge Wood-Edge Steel Entry Doors

Masonite® HD

HIGH-DEFINITION STEEL ENTRY DOORS

Subject to the limitations and conditions set forth below, Masonite warrants that from the date of original installation, the door will be free of manufacturing defects in material and workmanship for a period of five (5) years. Deflection (up to 1/4 inch) or minor scratches or other visual imperfections shall not be considered defects. Masonite grants these warranties only to the original purchaser of the door and the original purchaser of the building where the door was installed. **THIS WARRANTY IS NOT TRANSFERABLE.**

The warranty excludes any defects in the coatings, any glass inserts or other accessories. Also excluded from the warranty are defects resulting from (a) exposure to air pollutants, such as acid rain, (b) exposure to chemicals, acid or fumes; (c) improper handling, storage, abuse, vandalism, misuse, impact by foreign objects, acts of god, fire, explosions or other casualty; (d) installation or maintenance not conducted in strict adherence with the manufacturer's written instructions; (e) air and water infiltration during severe weather conditions; (f) any failure of the structure/building/foundation into which the door is installed; or (g) any other causes beyond the manufacturer's control and not related to the manufacturing process.

THIS WARRANTY IS IN LIEU OF ANY OTHER WARRANTY, EXPRESSED OR IMPLIED, INCLUDING IMPLIED WARRANTIES OF FITNESS FOR A PARTICULAR PURPOSE AND MERCHANTABILITY. MOREOVER, IN NO EVENT WILL MASONITE BE LIABLE FOR SPECIAL, INCIDENTAL OR CONSEQUENTIAL DAMAGES. This warranty gives you specific legal rights. Other rights vary from state to state and may apply to you. Some states and federal laws do not allow the exclusion of implied warranties. In the event these laws apply, then the length of any implied warranty shall be one (1) year or the shortest time in excess of one year permitted under applicable law. Similarly, some states do not allow the exclusion or limitation of consequential damages and, if applicable, this limitation will not apply.

If a defect occurs, Masonite, at its sole option, will furnish a replacement door, repair the door or refund the original purchase price. **MASONITE'S MAXIMUM LIABILITY IS LIMITED TO THE AMOUNT OF THE ORIGINAL PURCHASE PRICE. MASONITE WILL NOT PAY THE COSTS OF LABOR, INSTALLATION OR FINISHING FOR ANY REPLACEMENT DOOR. No representative of Masonite or any other person has any authority whatsoever to assume for Masonite any other liability or responsibility in connection with the door warranted herein.**

If you have a warranty claim, please notify your Masonite Dealer. Include in the notice the following information:

A. description of door;

B. name and address of owner and installer;

C. proof of sale; and

D. detailed explanation of defect.

Masonite®

the beautiful **door**™

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Please check with your Masonite dealer or distributor for current warranty terms and conditions.
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Rev. B 05/10

Updated 08/07/2014

NVR DOOR SYSTEM WARRANTY POLICY

EFFECTIVE August 2010

To simplify and expedite warranty requests, NVR, GeMROI & Masonite have implemented the following service policy. This policy, which covers the warranty for all components of the NVR exterior door system, will allow NVR to work with one assigned contact for all claims.

1. GeMROI will provide a copy of the NVR Door System Warranty form (see attached) to all NVR locations & divisions for their use in submitting warranty claims. All completed forms, will be emailed (sales@gemroi.com) or faxed to GeMROI (540-899-5498) as follows:

- **A) Pre-settlement warranty requests will be sent, as described above, directly to the GeMROI Company for processing.**
- **B) Post-settlement requests & homeowner calls <u>within the NVR one year warranty period,</u> will be fielded by the NVR Customer Care call center or division service department and NVR Door System Warranty Form will be forwarded to the GeMROI Company.**
- **C) For warranty issues <u>after the one year NVR warranty has expired</u>, the homeowner will contact NVR Customer Care, who will complete the form with as much information as they can provide and obtain photos from the homeowner, and send both to GeMROI for review. If additional information is needed GeMROI will contact the servicing plant or the homeowner directly for clarification. Once it is determined what material is needed for replacement, GeMROI will forward the form with the product information to Masonite to ship direct to the homeowner. Or if a field inspection is necessary, GeMROI will coordinate a jobsite visit with the homeowner or the NVR contact. Labor to replace the material is not covered under the Masonite warranty.**

Every effort will be made by NVR & GeMROI to have the warranty concerns addressed in five working days. Completion time of the requests will vary, depending on the homeowner availability and the materials needed.

2. Warranty requests, utilizing the approved form, must contain all pertinent information such as:
   - A) Name and contact information for NVR employee submitting the request.
   - B) Name, address, city/state/zip code, home and work telephone # of the homeowner (if home has been sold).
   - C) Date of closing for all homeowner calls.
   - D) What replacement parts are required, be as accurate as possible including: the size and style of the door unit (fiberglass, 6-panel, glass insert, etc.), quantity of affected doors, etc.

3. All requests will be reviewed by GeMROI for accuracy and completeness of the information. Once approved, processing will begin.

4. The request will be handled by the GeMROI partner responsible for the NVR plant from which the door unit was supplied. If the warranty issue is door panel/or glass related, GeMROI is the party responsible for resolution. If the warranty issue is related to the frame, threshold/sill of the door unit, GeMROI will contact the appropriate Endura Representative. If the problem is an NVR installation issue, GeMROI will ensure the NVR call center is notified to dispatch the service department. The homeowner or NVR point-of-contact will be notified within 48 hours of receipt of all required information to schedule a time for inspection and/or resolution of the issue.

5. Please refer to the Masonite warranty in the settlement package for information on each component of door unit.

6. GeMROI can be contacted to determine the status of a service request at the number below.

GeMROI Contact: Cyndi Bruner P: 540-899-7786 F: 540-899-5498 cbruner@gemroi.com

SMARTKEY™

Customized Security.

WHY RE-KEY WITH SMARTKEY?

Kwikset's SmartKey is a technological innovation that provides **superior security**. It also provides you the flexibility of re-keying your own locks yourself, quickly & easily without removing them from your door.

SmartKey allows you to control who has access to your home. When it's necessary to loan out keys to **household help, contractors or neighbors**—you can re-key your lock to a spare set & change back to your personal set when you wish to disable the loaners. **Re-key any time**, as frequently as you wish, while maintaining a level of security.

SUPERIOR SECURITY

- ANSI Grade 1 Deadbolt
- Pick Resistant
- BumpGuard—Protects against lock bumping*

PEACE OF MIND

- No more worrying about lost or loaned house keys
- Allows you to control who has access to your home

CONVENIENCE

- Re-key your lock in 3-easy steps
- Provides one key convenience for all Kwikset locks
- Avoid re-keying costs & the hassle of removing locks from your door

* Lock bumping - an attack technique using specially cut keys that can defeat conventional pin & tumbler locks.

FIND SMARTKEY IN ALL OF THESE ENTRY FUNCTIONS:

Kwikset Signature Series™

Deadbolts

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* Finish offering varies by style

Kwikset

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SUPERIOR SECURITY IN A COMPLETELY NEW DESIGN

RE-KEY: EASY AS 1-2-3

SECURITY

It's why we buy locks in the first place. For the very best in residential security make sure your lock has these important features:

ANSI GRADE 1 DEADBOLT*

Locks are rated by an independent agency (ANSI). GRADE 3 security provides good residential protection—GRADE 1, the best. SmartKey™ withstands the highest level of UL pick testing, the UL 437, Par. 11.6.

BumpGuard™

Protects against lock bumping**. Not only is a SmartKey deadbolt the most convenient residential deadbolt you can buy, it provides the security you need.

* 980 Deadbolt

NEW TECHNOLOGY

Locking bar, racks and pins are made out of stainless steel for increased strength & durability.

BUMPGUARD

Patented side locking bar technology replaces a traditional pin & tumbler design to protect against lock bumping*.

DRILL RESISTANCE

Cylinder uses two steel balls inserted into the front of the key face to resist attack from drilling.

KEY IT YOURSELF

tool in less than 30 seconds without removing the lock from the door.

** Lock bumping - an attack technique using specially cut keys that can defeat conventional pin & tumbler locks.

1

Insert functioning key and turn 1/4 turn clockwise.

Insert and remove the SmartKey learn tool. Take out current key.

3

Insert new key and turn 1/2 turn counter-clockwise. Your lock is now re-keyed!

You *must* have your working key & your learn tool for the system to work.

SmartKey Tool + Working Key

Interior Door Warranty

Masonite's Products are designed and built to high industry standards and are warranted pursuant to the terms of this document. This warranty applies to doors purchased after April 13, 2020 that are installed in residential homes in the United States and Canada.

THE RESIDENTIAL WARRANTY IS GRANTED ONLY TO THE ORIGINAL PURCHASER OF THE PRODUCT AND THE FIRST OWNER OF THE RESIDENTIAL HOME WHERE THE PRODUCT WAS ORIGINALLY INSTALLED. THE MULTI-RESIDENT WARRANTY IS GRANTED ONLY TO OWNER OF THE HOME OR BUILDING IN WHICH THE PRODUCT HAS BEEN INSTALLED AT THE TIME OF INSTALLATION (AND ITS BUILDER AND CONTRACTOR).
Subject to the exclusions and terms and conditions stated herein, Masonite warrants that the products listed below ("Products") will be free from manufacturing defects in material and workmanship from the original date of shipment by Masonite until the end of the time periods outlined below.

	Door Slab	Masonite Applied Finishes	Non-Masonite Applied Finishes
Solid Core Doors	7 Years	1 Year	None
Hollow Core Doors	5 Years	1 Year	None

Masonite Prefinished Doors: Subject to the warranty exclusions listed below, Masonite warrants its factory applied finishes (paints and stains) against peeling, checking or cracking for one year from the date of shipment to the original purchaser. Primer coats are not considered a finish and are not warranted nor are any finishes warranted that are applied by other parties. Masonite does not warrant that any particular finish will adhere to its primer coat.

THIS WARRANTY IS NOT TRANSFERABLE

WARRANTY EXCLUSIONS

- Improper installation, storage, care, handling or finishing including, without limitation, a failure to follow the instructions set forth below or as posted on Masonite's website from time to time.
- Failure to properly maintain the door such as by using harsh chemicals on the surface.
- Damage caused by sunlight, water, or extremes of heat and/or humidity.
- Doors that are stored or installed in buildings that have wet plaster or cement or where HVAC systems are not operating and balanced. (conditions 25%-55%RH and 50°f to 90°f [10°C – 32°C])
- Any damage to a door installed in any exterior application.
- Any issue due to improper alteration of the door by other parties (such as hinge preparation or lock bores).
- Damage caused by exposure to acid, chemicals or fumes.
- Locksets, hardware or other components of a door system that are not provided by Masonite.
- Any finishes not factory applied by Masonite (primer coating is not a finish).
- Variations in color or texture in any pre-finish coating.
- Normal wear and tear or natural weathering of surfaces.
- Problems resulting from misuse and or abuse.
- Slight expansion or contraction of door panels, jambs and slabs due to varying environmental conditions changes is considered normal and not a defect.
- Structural integrity issues caused by improper installation of hardware or improper sizing of door slab.
- Damage or poor product performance resulting from the installation of product in a condition that exceeds product design standard or certified specs and or does not conform to applicable building standards.
- Any alteration to a fire or other rated door is not permitted unless expressly authorized by ANSI standards such as under NFPA 80 including, without limitation, any trimming or machining. Any permitted machining, other than function holes, has to be performed "under label service" which means by a person licensed by the rating agency and the construction of the door slab must expressly allow for the machinability.
- Any warp, size or squareness within the tolerances specified below.

PERMITTED TOLERANCES

Size: Width, height and thickness +/- 1/16".

Squareness: +/- 1/8" measured corner to corner across the diagonal plane.

Warp: No more than 1/4" of warp as measured across the plane of the door in a section no greater than 42" x 78" in a 1-3/4" or 36" x 78" in a 1-3/8" door. For doors that are larger than 3-6 x 7-0 but no greater than 8-0 in height and 4-0 in width, the warp shall not exceed 1/4" in a 36" x 78" section.

INSTALLATION INSTRUCTIONS FOR NON-RATED DOORS

The instructions below are highlights of some of the instructions for door installation. Other installation may accompany the doors or be posted on Masonite's website and should also be followed:

- Do not impair the structural strength of the door during installation, the application of hardware, or the cutting of the door for lights, louvers, panels, or any other details.
- In fitting for width trim equally from both sides, the maximum on each side is 1/8th of an inch for 1/4 inch overall trim. If the door has already been machined then trim from the hinge side and re-machine the hinge pockets.
- In fitting for height do not trim the top of the door. Do not trim more than 1/4" off the bottom of the door unless accommodated by additional blocking.
- Masonite suggests using two hinges on doors up to 60" in height, three hinges on doors up to 90" in height and 4 hinges up to a maximum of 120" in height. Thread-to-head wood screws are recommended for fastening all hardware. Pilot holes are strongly recommended prior to inserting screws to avoid splitting.

STORAGE, CARE AND HANDLING INSTRUCTIONS

The instructions below are highlights of certain storage, care and handling instructions. Other instructions may accompany the doors or be posted on Masonite's website and should also be followed:

- When doors are received they must be inspected immediately for quality, including correct size, machining, species of veneer and finish (if factory finished).
- Buildings where humidity and temperature are controlled provide the best storage facilities (recommended conditions 25%-55%RH and 50°f to 90°f [10°C – 32°C])
- Warping and oil-canning may occur, depending on the season and relative humidity, until the doors become conditioned to the humidity and temperature of the building.
- Deliver doors to the site after plaster, drywall or cement is dry to avoid excess moisture.
- Keep the doors away from direct sunlight and sources of extreme heat, cold or humidity.
- When storing door slabs, keep the doors stacked horizontal and fully supported on a level surface, do not lean the doors vertically against a wall or other structure. When stacking doors, keep the top door covered at all times with a cover sheet, plywood or cardboard.
- Masonite ships certain doors with spacers between the doors. In order to prevent door distortion it is required that the packaging spacers remain until the door is hung.

FINISHING INSTRUCTIONS

(not applicable to Masonite's pre-finished doors):

- Test several doors for compatibility with your finishing system. If you encounter a problem DO NOT PROCEED but contact your paint manufacturer for assistance. Masonite is not responsible for compatibility issues.
- Within 7 days of delivery to a job site, all six (6) edges (top, bottom, sides) and other unfinished surfaces must be sealed with at least two (2) coats of paint, varnish or lacquer, if local code permits, to prevent warping, twisting and checking. Follow the coating manufacturer's instructions carefully, including guidelines on reduction of water based paints. Primer does not function as a sealer or moisture barrier.

HOW TO MAKE A CLAIM

If you detect a warranty issue, please promptly notify the person or company from whom you purchased the door or the home where the door was installed and provide the following information:

1. Description of the door and a photo of the defect;
2. Name and Address of the location of the door and, if installed, the builder and/or the installer;
3. Proof of Sale if you bought the door and, if not, the date you purchased the home or date it was installed;
4. Detailed explanation of the defect; and
5. Statement that the defect was not caused by any of the exceptions listed below.

Masonite may defer action on any claims for warping for a period of up to 12 months from date of the claim to allow the door slab to adjust to local humidity and temperature conditions. This often remedies the issue.

REMEDY AND LIABILITY LIMITATION

If a warranty issue is detected during the applicable warranty term, Masonite, in its sole discretion, will repair the door or provide a replacement door or will refund the original purchase price paid to Masonite for the door. The remaining warranty term for any replaced or repaired door will run from the date of the original door warranty. Masonite will not be liable for any labor, rehanging charges, painting/staining, any consequential damages or other costs under this warranty.

MASONITE MAXIMUM LIABILITY IS LIMITED TO THE AMOUNT OF THE ORIGINAL PURCHASE PRICE PAID TO MASONITE. MASONITE IS NOT OBLIGATED AND THIS WARRANTY DOES NOT COVER THE COSTS OF LABOR, INSTALLATION OR FINISHING FOR ANY REPLACEMENT DOOR. THIS IS THE SOLE WARRANTY GRANTED TO ANY PARTY AND THERE ARE NO OTHER WARRANTIES GRANTED, EXPRESSED OR IMPLIED, INCLUDING IMPLIED WARRANTIES OF FITNESS FOR A PARTICULAR PURPOSE AND MERCHANTABILITY. MOREOVER, IN NO EVENT WILL MASONITE BE LIABLE FOR SPECIAL, INCIDENTAL OR CONSEQUENTIAL DAMAGES.

Your rights may vary based on the laws in your state or province. If your state or province does not allow the exclusion of implied warranties, the length of any implied warranty shall be one year or the shortest time in excess of one year permitted under the applicable law. Similarly, if your state or province does not allow the exclusion of consequential, incidental or special damages, this limitation will not apply.

Unless Masonite agrees in writing to an alternative, any dispute under this warranty or related to the warranted product, shall be resolved by mandatory arbitration administered by the American Arbitration Association (AAA) and governed by the Federal Arbitration Act, 9 U.S.C. section 1 et seq. as interpreted by the U.S. Supreme Court and the U.S. Court of Appeals for the Eleventh Circuit. Such an arbitration shall be before a single arbitrator and conducted under the AAA Consumer Arbitration Rules in effect at the time of the arbitration, except that the parties agree not to exercise any option to proceed in any small-claims court and waive any such right. Any in-person arbitral proceedings shall occur in Tampa, Florida, If, however, the arbitrator decides, based on evidence submitted, that the specified venue would result in undue hardship to the person making the claim ("claimant"), in which event the arbitration will occur in the location more convenient for the claimant as specified by the arbitrator. Neither you nor Masonite will be entitled to join or consolidate claims in arbitration.

No representative of Masonite or any of its dealers or distributors has authority to modify this warranty or assume for Masonite any additional liability or responsibility in connection with this warranty. Only an officer of Masonite may vary the terms.

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Exterior Door & Glass Limited Warranty

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Masonite's products are designed and built to high industry standards and are warranted pursuant to the terms of this document.

This warranty applies to Products shipped by Masonite after August 1, 2019 that are installed in residential homes in the United States and Canada.

THIS WARRANTY IS NOT TRANSFERABLE.

THE RESIDENTIAL WARRANTY IS GRANTED ONLY TO THE ORIGINAL PURCHASER OF THE PRODUCT AND THE FIRST OWNER OF THE RESIDENTIAL HOME WHERE THE PRODUCT WAS ORIGINALLY INSTALLED. THE MULTI-RESIDENT WARRANTY IS GRANTED ONLY TO OWNER OF THE HOME OR BUILDING IN WHICH THE PRODUCT HAS BEEN INSTALLED AT THE TIME OF INSTALLATION (AND ITS BUILDER AND CONTRACTOR).

Subject to the terms stated herein, Masonite warrants that the products listed below ("Products") will be free from manufacturing defects in material and workmanship from the original date of shipment by Masonite until the end of the time periods outlined below.

RESIDENTIAL PRODUCT WARRANTY (Table 1)

MASONITE PRODUCT	Coverage	Factory Finish Coverage
Fiberglass Doors Barrington®, Belleville®, Heritage Series®, Oakcraft®, and VistaGrande®	**Lifetime***	**2 years**
Sta-Tru® Steel Doors Steel Edge and Wood Edge	**20 years**	**5 years**
Masonite Insulated Glass Decorative glass and Miniblinds	**20 years**	**N/A**
Masonite Factory Finished Lite Frame other than PVC	**20 years**	**2 years**
Masonite Factory Finish PVC Lite Frame & SDL bars	**5 years**	**2 years**
HD Steel Edge Doors	**15 years**	**2 years**
HD Wood Edge Doors	**5 years**	**2 years**
Utility Steel Door	**1 year**	**1 year**

******The definition of **"Lifetime"** is as long as the original owner occupies the residential home where the Product was installed.*

Masonite Pre-Hung Door Units are subject to this warranty for the relevant components (door, glass, frame and finish) and may be subject to additional warranty terms if provided in writing with the pre-hung units. Masonite does not warrant the hardware or the frame of a pre-hung unit unless specified in the warranty materials that accompany the unit.

Masonite Prefinished Products: Subject to the terms of this warranty, Masonite warrants its Masonite factory applied finishes (paints and stains) will not peel, chip or crack due to a manufacturing defect. The warranty term is from the date of Masonite's shipment until the end of the time period listed above.
A primer coat is not a finish and is not warranted by Masonite.
Masonite does not warrant any finishes that are applied by other parties nor does Masonite warrant that a particular finish will adhere to its primer coat.

MULTI-RESIDENT PRODUCT WARRANTY (Table 2)

MASONITE PRODUCT	Coverage	Factory Finish Coverage
Fiberglass Doors Barrington®, Belleville®, Heritage Series®, Oakcraft®, and VistaGrande®	**5 years**	**2 years**
Sta-Tru® Steel Doors Steel Edge and Wood Edge	**5 years**	**2 years**
Masonite Insulated Glass Decorative glass and Miniblinds	**5 years**	**2 years**
Masonite Factory Finished Lite Frame other than PVC	**5 years**	**2 years**
Masonite Factory Finish PVC Lite Frame & SDL bars	**2 years**	**2 years**
HD Steel Edge Doors	**5 years**	**2 years**
HD Wood Edge Doors	**2 years**	**2 years**
Utility Steel Door	**None**	**None**

WARRANTY HOLDER CLASSIFICATIONS:

Residential Warranty Holders: If the Product is installed in (i) a new residential home and the first occupant owns the home or (ii) an existing owner-occupied residential home, and in each case, at the time of installation such owner is also responsible for Product replacement, then that owner is a Residential Warranty Holder. For example, assume the Product is installed in a condominium unit (a "home") in a multi-resident building. If the first occupant of the condominium unit is the first owner of that unit and is also responsible for Product replacement, then that owner is a Residential Warranty Holder; however, if the owner is not the first occupant or if someone else other than the owner (for example, the condominium association) is responsible for Product replacement, then the owner is not a Residential Warranty Holder.

Multi-resident Warranty Holders: If the Product is installed under conditions in which no one qualifies as a Residential Warranty Holder as described above, then the warranty holder is the owner of the home or building in which the Product has been installed at the time of installation (and its builder and contractor). That owner is classified as a Multi-Resident Warranty Holder. For example, this includes owners of multi-resident premises in which the occupant is not responsible (other than through periodic fees/other assessments) for Product replacement whether or not the occupant owns the residential home unit in the premises (including by example, certain condominiums, townhomes, duplexes, apartments, cooperatives).

WARRANTY EXCLUSIONS:

1. Improper installation, storage, care, handling or finishing, including, without limitation, a failure to follow the instructions set forth below, that accompany the Product, or as posted on Masonite's website from time to time.

2. Failure to properly maintain the Product.

3. Exposure of the Product to chemicals, acid or fumes, air pollutants, such as acid rain.

4. Damage caused by improper handling, storage, abuse, vandalism, misuse, impact by foreign objects, acts of God, fire, explosions or other casualty.

5. Any damage resulting from air and water infiltration during severe weather conditions.

6. Any failure of the structure/building/foundation into which the Product is installed.

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7. Any issue due to alteration of the Product by other parties (such as cut downs or light cutouts).

8. Damage caused by not properly finishing the Product or not finishing it in a timely manner (45 days from date of Masonite's original shipment unless prefinished by Masonite).

9. Lite Frames and SDL bars need to be finished to be covered under warranty.

10. Masonite does not warrant hardware such as locksets or other hardware. A separate written warranty may be provided from the manufacturer and included in the materials that accompany a Pre-Hung Door Unit.

11. The finish on any Masonite supplied hardware is not warranted and is purchased "as is".

12. Variations in color or texture in any primed or pre-finished Product coating.

13. Normal wear and tear or natural weathering of surfaces including weather-strip and sweep.

14. Damage or defect arising from or related to improper field finishing of all sides, front, back and all edges of the Product.

15. Slight expansion or contraction of door panels, jambs and slabs due to varying environmental conditions.

16. Structural integrity issues caused by improper installation of hardware or improper machining of the Product.

17. Damage or poor Product performance resulting from the installation of Product in a condition that exceeds Product design standards or certified specs and/or does not conform to applicable building standards.

18. Any warp, size, or squareness within the permitted tolerances including those listed below.

19. Damage resulting from or related to a Product being installed behind a non-vented storm door or excessive heat due to being finished a dark color.

20. Bubbles, lines, slight surfaced imperfections and slight discoloration are normal characteristics of fine hand-crafted glass and are not warranted.

21. Acts of third parties.

22. Non-uniformed fade or, color change after installation.

PERMITTED DOOR TOLERANCES

1. **Size:** Width, height and Thickness +/- 1/16" of a door
2. **Squareness:** +/- 1/8" measured corner to cornera across the door's diagonal plane.
3. **Warp:** No more than 1/4" of warp as measured across the plane of the door in a section no greater than 3-6 x 7-0 in 1-3/4" or 3-0 x 7-0 in a 1-3/8" door. For doors that are larger than 3-6 x 7-0 but no greater than 8-0 in height and 4-0 in width, the warp shall not exceed 1/4" in a 3' by 7' section.

Masonite may defer action on any claims for warping for a period of up to 12 months from date of the claim to allow the door slab to adjust to local humidity and temperature conditions. This often remedies the issue.

INSTALLATION INSTRUCTIONS:

Refer to the installation instructions that are provided with the Product or that are found on the Masonite website.

Depending on the region, some areas require additional fasteners to install the unit. Please check with local building codes for additional installation information.

Installation of a Product within 5 miles of any body of salt water will reduce the Warranty period (Lifetime or Warranties of 15 years or greater will be limited to 10 years, other warranties will be reduced by 50%).

FINISHING INSTRUCTIONS (not applicable to Masonite's pre-finished doors):

Refer to the installation instructions and finishing instructions on the Masonite website. Also, follow the coating manufacturer's instructions carefully.
Primer does not function as a sealer or moisture barrier and is not a coating.
Masonite recommends cleaning the Product a few times a year using mild detergent and warm water. Repainting or re-applying topcoat every 1 to 7 years will be required depending upon the weather exposure.

STORAGE, CARE & HANDLING INSTRUCTIONS:

The instructions below are highlights of certain storage, care and handling instructions. Other instructions may accompany the Product or be posted on Masonite's website and should also be followed:

1. When Products are received they must be inspected immediately for quality, including correct size, machining, and finish (if factory finished).
2. Unfinished doors and frames must be finished within 45 days of original purchase with a national brand exterior grade paint or stain.
3. Prior to installation, the door/unit shall be stored so that it is not exposed to the elements or allowed to sit in a damp area or standing water.
4. When storing door slabs, keep the doors stacked horizontally and fully supported on a level surface, do not lean the doors vertically against a wall or other structure. When stacking doors, keep the top door covered at all times with a cover sheet, plywood or cardboard.
5. Masonite ships certain Products with spacers. In order to prevent Product distortion, it is required that the packaging spacers remain until the Product is removed to be hung.
6. Pre-hung door units should be stored vertically and secured to avoid accidentally falling over.

HOW TO MAKE A CLAIM:

If you detect a warranty issue, please promptly notify the person or company from whom you purchased the Product or the residential home where the Product was installed and provide the following information:

1. Description of the Product and a photo of the defect;
2. Name and address of the location of the Product and, if installed, the builder and/or the installer;
3. Proof of Sale if you bought the door and, if not, the date you purchased the residential home or date it was installed;
4. Detailed explanation of the defect; and,
5. Statement that the defect was not caused by any of the exceptions listed in this warranty.

At Masonite's discretion, a warranty claim may be subject to site inspection.

REMEDY AND LIABILITY LIMITATION:

If a warranty issue is detected during the applicable warranty term, Masonite, in its sole discretion, will either a) repair or provide a replacement Product or component or b) will refund the original purchase price paid to Masonite for the product (Prorated price for glass see Table 2). The remaining warranty term for any replaced or repaired product will run from the date of the original door warranty. Masonite will not be liable for any labor, rehanging charges,

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painting/staining, installation, incidental, special or consequential damages or other costs under this warranty.

GLASS PRO-RATED WARRANTY (Table 3)

Period (years)	Charge to Customer	refund to customer
0-5	None	100%
6	20%	80%
7	30%	70%
8	40%	60%
9	50%	50%
10	60%	40%
11-15	70%	30%
16-20	80%	20%

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Your rights may vary based on the laws in your state or province. If your state or province does not allow the exclusion of implied warranties, the length of any implied warranty shall be one year or the shortest time in excess of one year permitted under the applicable law. Similarly, if your state or province does not allow the exclusion of consequential, incidental or special damages, this limitation will not apply.

Unless Masonite agrees in writing to an alternative, any dispute under this warranty or related to the warranted Product, shall be resolved by mandatory arbitration administered by the American Arbitration Association (“AAA) and governed by the Federal Arbitration Act, 9 U.S.C. section 1 et seq. as interpreted by the U.S. Supreme Court and the U.S. Court of Appeals for the Eleventh Circuit. Such an arbitration shall be before a single arbitrator and conducted under the AAA Consumer Arbitration Rules in effect at the time of the arbitration. The parties agree not to exercise any option to proceed in any small-claims court and waive any such right. Any in-person arbitral proceedings shall occur in Tampa, Florida. If the arbitrator decides, based on evidence submitted, that the specified venue would result in undue hardship to the person making the claim (“claimant”), then the arbitration will occur in a location more convenient for the claimant as specified by the arbitrator. Neither you nor Masonite will be entitled to join or consolidate claims in arbitration.

No representative of Masonite or any of its dealers or distributors has authority to modify this warranty or assume for Masonite any additional liability or responsibility in connection with this warranty. Only an officer of Masonite may vary the terms.

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INSTALLATION INSTRUCTIONS

CERTIFIED POWERED BY ENDURA

Certified Powered By Endura™ Door Systems

These instructions apply to the following Certified Powered By Endura™ Systems:

Single Doors

Single & Double Continuous Sidelite Units

French & Patio Units

Failure to follow all steps of this instruction will void the Certified Powered By Endura™ Warranty.

- **Note**: This instruction assumes a typical wood frame wall installation. Adjustments may be required for other wall types.
- **Note**: This instruction assumes that an appropriate weather-resistive barrier is applied to the rough opening and integrated with the door unit, as required by local building codes and/or manufacturer's instructions.
- **Note**: This instruction applies to both inswing and outswing doors, except where noted.

Rev 3.18 Form# CertPBEinst-17

Installation Tools and Materials

Installation will require the following tools and materials:

- Level - 3' and 6'
- Tape measure
- Masonry string
- Caulking/Sealant- (a) polymer based sealant, such as Bostik Pro-MS 50, (b) polyurethane sealant, or (c) 100% silicone sealant.
- Caulking gun
- Shims (material type compliant with applicable building code requirements)
- #8 x 2-1/2" exterior grade screws (or alternate size compliant with applicable building code requirements)
- 8d finishing nails, exterior grade
- #2 Phillips screwdriver
- Driver with #2 Phillips bit
- Simple Solution Corner™ Pads

Note- Other tools and materials may be required due to rough opening conditions or applicable building code requirements.

General Notes

- Endura recommends that the installer understand the hazards of handling material with lead paint. More information is available at www.epa.gov/lead.
- Construction waste should be disposed of properly.
- Applicable building codes supersede this instruction where differences arise.
- Endura cannot be held liable for defects or deficiencies resulting from improper use of these installation instructions or failure to follow building codes.

1 Preparing the Rough Opening

Rough Opening: Dimensions

Rough Opening: Cross Check

Rough Opening Dimensions: Height = Door Frame +1/2"
Width = Door Frame +3/4"

Diagonal Distances should be within 1/4" of each other.

Diagonally placed strings should be within 1/8" of each other at the center.

Ensure support underneath sill front edge overhang. If sill front edge is not properly supported, build out structure to support it.

The rough opening should be flashed according to local building code requirements.

? Are the walls straight?

? Is the rough opening framing plumb & level?

? **Is the subfloor clean, dry, level and solid?**

Check both sides

If you are using a height plate to bring the sill up to the level of the finished floor covering:

Be sure that it is at least as wide as the sill and as long as the rough opening.

Be sure to caulk thoroughly under and around the height plate.

2 Caulking the Rough Opening

NOTE: Where caulking is required a polyurethane, 100% silicone, or polymer-based exterior grade sealant may be used.

Place three heavy beads (1/2" wide) of sealant on the subfloor or height plate as shown.

Put enough caulk at the ends to completely cover the bottom of the side jamb.

Apply a continuous 1/2" bead sealant to sheathing side of brickmould or exterior trim (ensure that sealant is compatible with sheeting, housewarp or flashing at rough opening).

2a Optional Sill Pan

An Endura approved Sill Pan may be used in Certified Powered By Endura™ Systems, but is not required.

1. Place three heavy beads (1/2" wide) of sealant on the subfloor or height plate as shown.

2. Place and secure Endura approved Sill Pan according to separately issued Endura Instructions.

3. Seal Interior Edges
Perform after door unit is anchored into rough opening.

Apply sealant between the rough opening and the jamb, 6" above the end caps.
NOTE: Backer rod may be needed.

Apply sealant between the back edge of the end cap and the jamb.

Apply sealant between the back edge of the sill pan and the sill.

3 Position Unit in Rough Opening

Pivot into position taking care not to wipe away subfloor caulking.

Temporarily secure using finishing nails through the brickmould. Do not fully set nails.

Ensure that unit is plumb in each direction.

Ensure that inside edge of door unit projects 1/2" past stud interior surface for proper alignment with drywall.

Place fasteners through thick part of jambs as shown, just above the hinge positions on the hingejamb. Do not fully seat. Use 3 screws for 7/0 and shorter units, & 4 screws for 7/5 and taller units.

Single Units: Fasten Hinge Jamb First

Sidelite Units: Fasten Sidelite Jamb on Hinge Side first.

French & Patio Units: Fasten Jamb on fixed or passive side panel first.

For systems with brickmould or other exterior trim, assure that backside of moulding is up against exterior sheeting.

Note: Do not secure door unit only through brickmould or other exterior trim.

Alternate screw location - do not damage weatherstrip.

Use #8 x 2-1/2" wood screw or equivalent fastener. Do not fully seat.

Note: Door units installed in high velocity wind zones will require anchoring according to approved requirements.

4 Shim and Secure Hinge Jamb

- Temporarily install Simple Solution™ Pads, but do not remove adhesive backing paper yet (see Step 8 for pad positioning).
- Check hinge jamb for plumb in both directions with a 6-foot level.
- Place shims behind jamb hinges. Adjust shims to take up space between jamb and rough opening.

  Note: In some cases, the rough opening is plumb and allows the door jamb to be placed against the rough opening. Shims on this side will not be required.

- On top hinge, replace 2 short screws closest to weatherstrip with #8 x 2-1/2" screws.
- On all other hinges, replace top screw closest to weatherstrip.

- Set each jamb screw through shims, then remove excess shim.

- **Note**: Make sure the jamb is not bowed. Adjust or apply additional shims as necessary.

5 Shim and Secure Opposite Jamb

- Check jamb for plumb in both directions with a six foot or longer level.
- Install shims across from each hinge and adjust to ensure a 1/8" consistent margin between panel and jamb.
- Adjust the frame so it is flush with the face of the door.

- Check the weatherstrip contact for even compression all around the door.
- Set each jamb fastener through shims.
- Remove excess shims when done.

Note: Make sure the jamb is not bowed. Adjust or apply additional shims as necessary.

6 Securing Lockset Hardware

- Install lockset hardware
- With door closed, shim behind strike and deadbolt plates to maintain proper margin.

- Secure each plate with two #8 x 2-1/2" screws through the shim and into the rough stud. Remove excess shim.

7 Shim and Secure Header

- Secure fasteners through thick part of header. Use shims at each location indicated by (X) to maintain proper margin.

Drive and set finish nails in brickmould on jamb sides and header.

8 Remove End Base Protective Label

Z-Articulating Cap Sills™ Only

- Depress the Z-AC, to gain access to the orange protective labels on each Z-End base.
- Grasp the inside tab of the orange protective label on the Z-End Base™/ Mull Stiffener, shown here and lift up and away from the Z-End Base.

9 Adjust Sill

- Remove temporarily installed Simple Solution™ Corner Pads
- If necessary, adjust the sill cap to ensure consistent spacing between panel and cap.

  *Does not apply to Z-Articulating Cap

Caulk joint between sill cap and jamb (on front and top edges of cap) prior to installing Corner Pad.

*Does not apply to Z-Articulating Cap

11 Caulking Sill (Optional for Z-Articulating Cap Sills™)

- Caulk the intersection of the aluminum sill deck and the jamb.
- Seal front bottom edge of sill. *Do not caulk the front bottom edge of the sill when using a sill pan..
- Caulk around the intersection of the mull and the door sill.
- If a sill extender is installed, apply a bead of caulk where the extender meets the sill deck.

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10 Astragal Positioning (French Units only)

- Close the passive door to verify that it is in the desired position.
- Push bolt pins to contact header and sill, then mark positions for retainer holes.

  *** For Z-Articulating Cap, only the header mark is required.**
- Complete installation and positioning of astragal according to Endura's "Field Installation Instructions" provided with the French Door Unit.
- **The strikes should be adjusted in the direction of door closure to assure that the strikes pull the door up to the weatherstrip tightly.**

11 Weatherproofing

- Caulk around the entire unit on weather-exposed side between brickmould and siding or sheathing.
- Caulk at joint of brickmould and jamb/header
- Self-adhering flashing installed per the manufacturer's instructions may be used in a place of caulking, as long as the entire interface between the brickmould and frame and brickmould and siding is water tight.
- Install flashing above protruding header trim in shingle lap fashion, or per manufacturers instructions,or according to applicable building code requirements.
- Insulate the gap between the frame and rough opening according to applicable building code requirements.
- Additional or alternate flashing methods may be required according to applicable building code requirements.

10 Check Corner Pads

Verify proper installation of Simple Solution Corner Pads

- To install Simple Solution Corner Pads, remove paper backing to expose adhesive, and press firmly into place. For margins less or equal to than 5/32", apply the corner pad with the edge flush against the weatherstrip kerf, and for margins greater than 5/32", apply the corner pad with the edge flush against the interior jamb. Pads not required on outswing jambs.

⚠ **Strike Margins greater than 5/32"**

Corner Pad flush with interior side of jamb

⚠ **For Strike Margins less than 5/32"**

Corner Pad Flush with the weatherstrip kerf

- **For Adjustable Sills/ Oak Anchored Caps**
  The Simple Solution Corner Pad must contact the top of the sill cap.

For Z-Articulating Caps
The Simple Solution Corner Pad must contact the top surface for the Z-End Base™.

Patented and Patents Pending visit www.enduraproducts.com