



Windows & Doors



2300Vinyl
Single Hung 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

Multi-chamber construction with fusion-welded sash and frame

7/8" insulated glass with Warm Edge spacer saves energy

Sloped sill drains water away from home exterior

Integral J-channel for simple, secure siding installation (optional double utility trim)



Standard



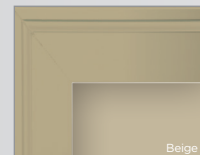
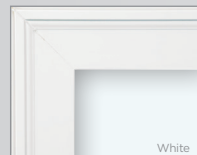
Optional Upgrade



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 (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 indoor cooling and glare reduction requirements.



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.



Add character with grilles and shapes.

Choose from a variety of distinctive looks.



Multiply the effect.

Combine fixed and operating windows to make a dramatic statement.

4 Enjoy the view.



For more information, call 888-9PLYGEM.



NEW CONSTRUCTION
WINDOWS



2300 VINYL COLLECTION



2300 Series Warranty_RevB

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WINDOWS CONSUMER LIFETIME
LIMITED WARRANTY



PLY GEM
WINDOWS

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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)

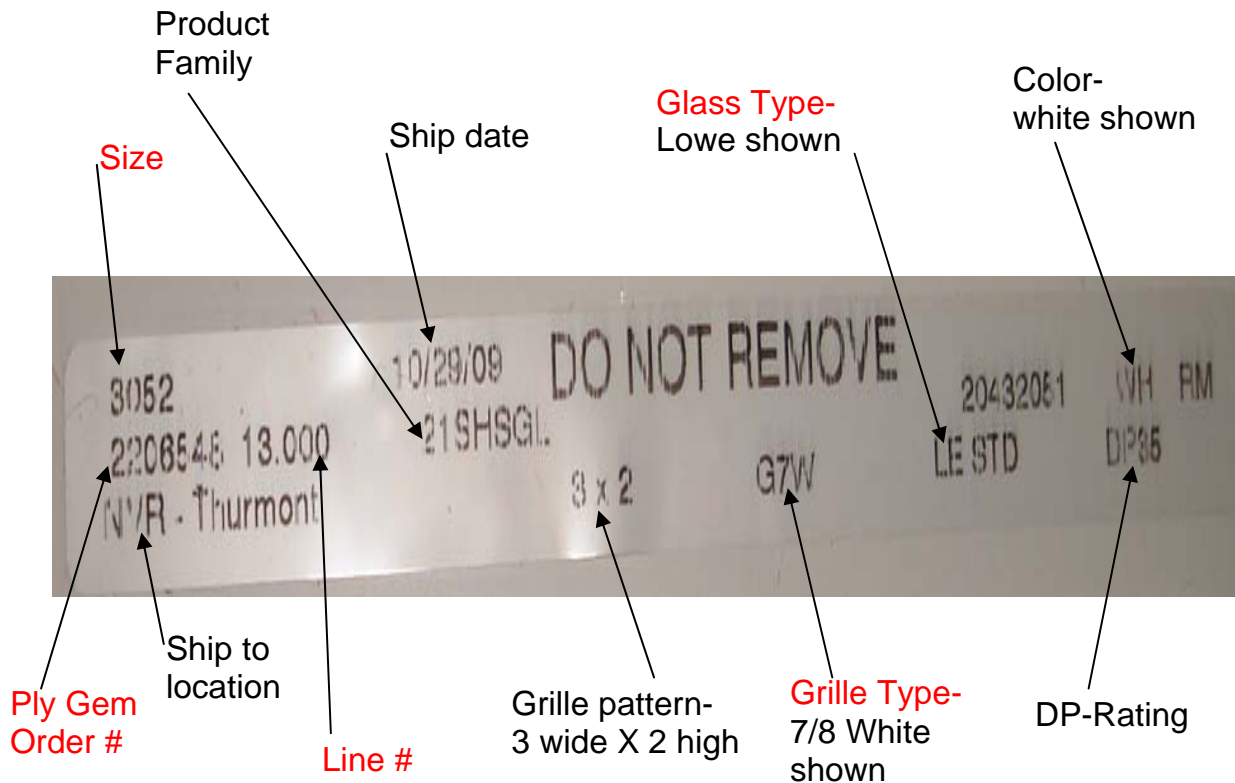
☐ Clear Glass ☐ HP Glass ☐ Obscure
☐ Low-E ☐ HP^{SC} Glass ☐ Tempered
☐ Low-E^{SC} ☐ GBG

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



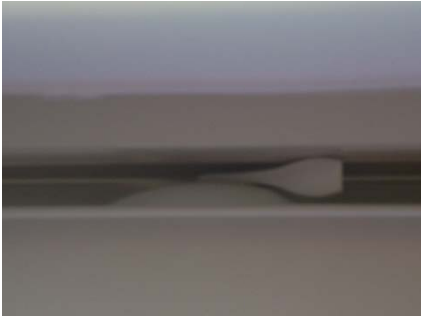
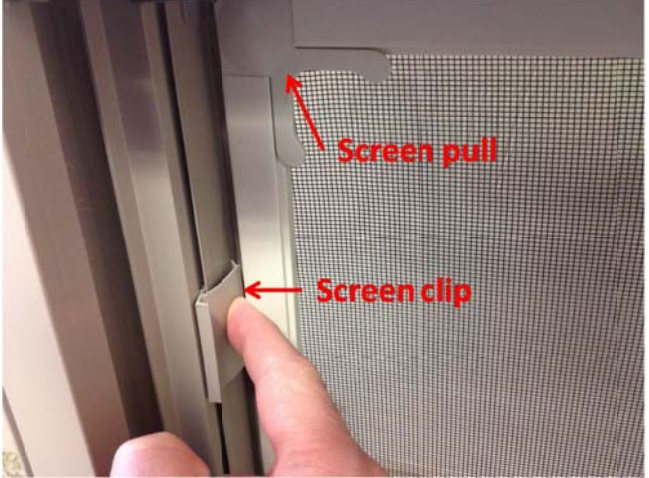


☐ Advertisements ☐ Price
☐ Product Variety ☐ Low Maintenance
☐ Warranty ☐ Overall Quality
☐ Builder’s Decision ☐ Style/Aesthetics
☐ Energy Efficiency ☐ Recommended by Dealer

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.



2300 SCREEN REMOVAL PROCESS

Instructions	Visual	Correct	Incorrect
<p>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.</p>		<p><u>Correct Position of Lock into Frame:</u></p> 	<p><u>Incorrect Position of Lock into Frame:</u> (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)</p> 
<p>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.</p>		<p><u>Screen Clip Correctly Installed:</u></p> 	<p><u>Screen Clip Incorrectly Installed:</u></p> 
<p>3. Keep inward pressure using the top “screen pull” and detent the bottom left screen clip until the clip is bypassed.</p>			
<p>4. Repeat steps 2 and 3 on the right side until all clips are bypassed.</p>			

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



BUILDER SERIES

W I N D O W S



4710/4712 SERIES SINGLE HUNG



MORE VALUE. MORE PERFORMANCE. MORE SOLUTIONS.

If you're looking for a window that delivers the best possible performance at the best possible value, look no further than Ply Gem Windows Builder Series. It's energy-efficient and offers a variety of material choices, most of which are virtually maintenance free and can withstand the toughest tests, including the test of time. Plus, with our service and support you'll be able to get the job done the right way on time and on budget.





4710/4712 SERIES SINGLE HUNG



4710 SERIES THERMAL PERFORMANCE

		NFRC CERTIFIED		
		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		
		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

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



OPTIONS

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

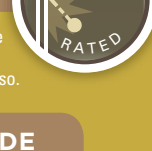
PRODUCT CONFIGURATION:

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:



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.

SINGLE HUNG SELECTION GUIDE

SERIES	NAIL FIN SETBACK	R50	HIGH WIND ZONE	FLORIDA APPROVED	CONSTRUCTION TYPE			
					SIDING	BRICK	BLOCK	EIFS
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.

BUILDER SERIES
W I N D O W S



BUILDER 37/47/4800® SERIES



PLY GEM
WINDOWS

WINDOWS & PATIO DOORS
CONSUMER LIMITED WARRANTY

NC337/47/4800VAPR-0410JH-REVA

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PLY GEM
WINDOWS

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E A S T

Ply Gem Windows

Warranty Registration Data Center

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Wexford, PA 15090-0787

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

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



PGW-WGLCMV-0310-BC-REV.A



CARE & MAINTENANCE



Keep your windows
looking and working great

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.

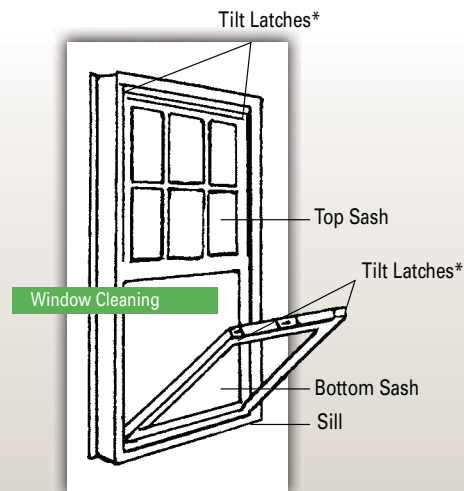
***To Tilt in Bottom Sash:** Raise the bottom sash approximately three (3) inches from the sill. With fingertips, slide tilt latches on both sides of the sash and tilt the sash inward. When washing, rest the center of the sash on your knee or the sill. DO NOT lay the corner of the sash on anything that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

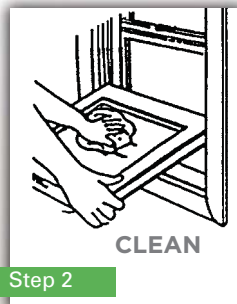
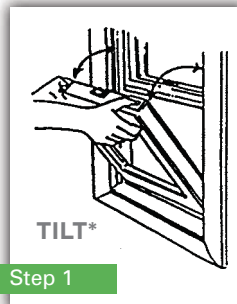
Each double hung window comes with two tilt latches* (surface mounted or recessed) on each operating sash.

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 jams.



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 $\frac{1}{4}$ to $\frac{1}{2}$ 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.

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.

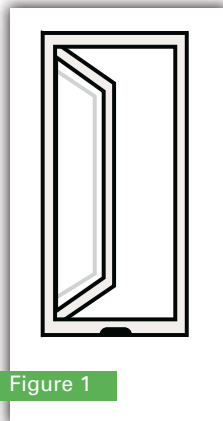


Figure 1

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 it 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.

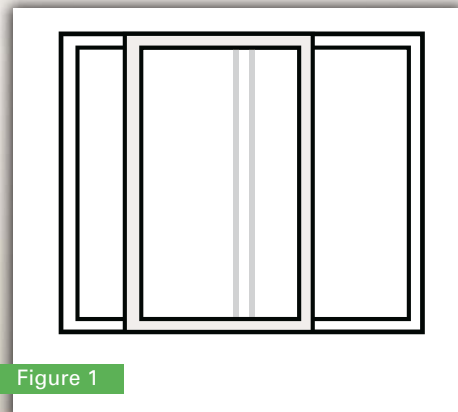


Figure 1

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.

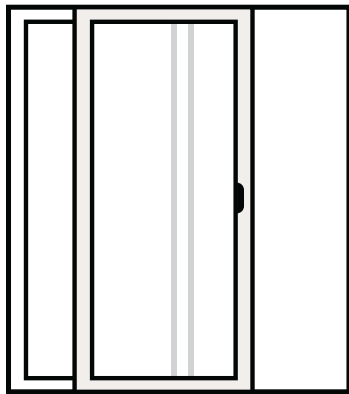
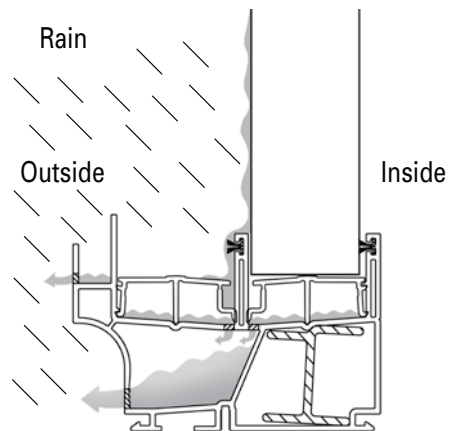


Figure 1

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.

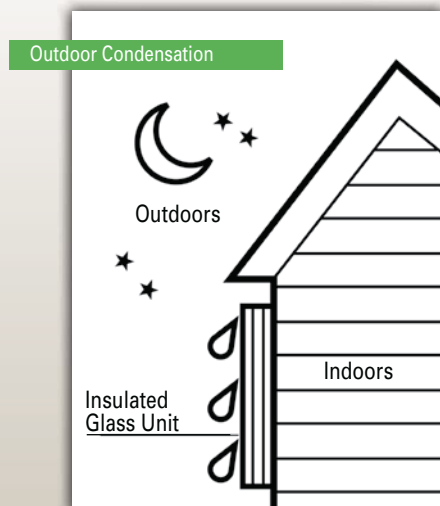
Specifically, these conditions are as follows:

- 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.



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 Form. 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 1/4" 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 than 9 square feet (3' x 3') should be stored and transported standing up.



Read all instructions thoroughly before beginning. This is a guideline for painting and finishing exterior and interior doors. JELD-WEN cannot evaluate all available paints, stains, or application requirements. Consult a paint professional or a local paint department/store for coatings best suited to the project. Select top quality finishes and follow all manufacturers' instructions.

Finish all six surfaces (both sides and edges) of the door slab, including cutouts for hardware (if hinges are installed on an interior door slab, do not remove them), as well as the frame and the brickmould or other trim to ensure proper protection from the elements. The sweep on the bottom of exterior doors needs to be sealed on both ends with exterior silicone sealant and should not be painted or stained. The sweep should not be removed as paint or stain application to the rail underneath is not recommended. Failure to finish the door slab as instructed may result in the denial of warranty claims for operational or performance problems.

Important!

- Steel and fiberglass door slabs MUST be finished within thirty (30) days of purchase.
- Factory primed wood doors (molded, flush, premium composite, stile and rail) MUST be finished within fourteen (14) days of purchase.
- Raw, un-primed wood doors (molded, flush, stile and rail) MUST be finished within SEVEN (7) days of purchase.
- Finish wood frames in the same manner as the slab.
- Vinyl components do not require finishing.
- Refinish products when the finish cracks, splits or becomes dull.



WARNING: This product can expose you to chemicals including styrene and wood dust, which are known to the State of California to cause cancer. For more information go to www.P65Warnings.ca.gov.



WARNING: Drilling, sawing, sanding or machining wood products can expose you to wood dust, a substance known to the State of California to cause cancer. Avoid inhaling wood dust or use a dust mask or other safeguards for personal protection. For more information go to www.P65Warnings.ca.gov/wood.

Needed Materials And Tools

When preparing to finish doors, consider the materials and tools required for the entire project. Listed below are some common items needed to properly finish doors. Not all materials and tools will be required for every job.

Needed Materials and Tools:

- | | | |
|------------------------------------|---|---|
| • Safety glasses and rubber gloves | • Denatured alcohol | • Clean rags |
| • Screwdrivers | • Wood block | • Cheesecloth |
| • Power drill | • Masking tape | • Polyurethane |
| • Hammer | • Sandpaper - 150 grit or finer (Steel and Smooth-Pro Fiberglass Doors) | • Paint or stain (see instructions for each door type for specific recommendations) |
| • Punch | • Sandpaper - 400 grit (Authentic Wood Doors) | • Paint thinner or mineral spirits (for clean up) |
| • Utility knife | • Pre-stain conditioner if staining wood | • Tack cloth |
| • Plastic putty knife | | • 0000 Steel wool |
| • Hand block sander | | |
| • Foam brush | | |
| • Paint brush | | |
| • Sprayer | | |

Basic Finishing Recommendations

- Wear safety glasses for eye protection, and rubber gloves to prevent soiling the door with oil from hands.
- Allow doors to acclimate to local conditions for at least 24 hours before finishing.
- Remove all hardware (except hinges from an interior door slab) and mask off glass, weatherstrip, and the door sweep (on the bottom of exterior slabs).

- Finish in dust free area away from direct sunlight.
- Finishing is easier if the slab is in a horizontal, flat position on a padded surface. This is not required and the slab may be finished in any position, however, do not stand an exterior slab on the sweep (the weatherstrip on the bottom of the door) as damage may result.
- If finishing an exterior slab, seal both ends of the sweep (weatherstrip on the bottom) with an exterior grade silicone.
- If finishing a slab with a glass insert, inspect for sealant that may have squeezed out onto the glass or door. Carefully score excess sealant (do not scratch glass) with a utility knife (stainless steel blade) and remove with a plastic putty knife.
- If finishing a slab with a glass insert, follow the glass manufacturer's instructions on the glass insert frame label.
- Door must be clean and dry before finishing.
- Test your finish prior to application in a discreet location.
- Apply finish materials in multiple light coats instead of fewer heavy coats.
- If painting grained or textured doors, too many coats will diminish the wood grain texture.

Choose Finishing Materials

- If the door is exposed to direct sunlight, dark colored finishes may fade or deteriorate quickly and increase maintenance. See our Appropriate Protection document at www.jeld-wen.com in the Product Support section under Care and Maintenance for more information on color choice.
- Use a good quality primer and paint, or wood sealer and stain. We recommend using one manufacturer's products to ensure compatibility. Follow all manufacturers application instructions.
- If choosing an oil or solvent based paint, consult with a paint professional on the best product (usually quick drying) for the job.
- If staining fiberglass doors, for the best results, we recommend using a professional quality, heavy body or highly viscous exterior gel stain.
Note: Once Architectural fiberglass doors are stained, it is very difficult to change the color. Always test the color in an inconspicuous area to determine if the color is acceptable before staining the entire door.
- Use only exterior solid color stains on wood surfaces exposed to sunlight because their high concentration of pigments protects wood against damage. The natural wood color and grain is obstructed, but the wood texture is retained. These stains provide minimum protection against water or dirt protection, so a polyurethane top coat must be used.
- Finish with coatings that are resistant to water, wear, heat, solvents and chemicals. Without these characteristics, the finished product may deteriorate, compromising its integrity.
- Use a topcoat containing UV inhibitor. Use exterior finishing products on all exterior surfaces as well as for interior surfaces still exposed to sunlight to provide extra protection and durability.

Prepare the Door

If refinishing a previously finished door slab, use the following recommendations for the product you have. The achieved result will depend on the skill of the person doing the refinishing. We recommend seeking the help of a skilled professional if unsure. After preparing the previous finish, follow the finishing instructions in the following sections.

	Doors that were Painted	Doors that were Stained
Steel and Smooth-Pro Fiberglass	<ol style="list-style-type: none"> 1. Scuff sand with 150 grit sandpaper or finer or buff the surface of the door thoroughly with 0000 steel wool until the entire surface is dulled and even. Feather out areas where the previous finish is cracked or peeling by removing all loose material and sanding outward until the surface is uniformly level. 2. Remove all loose debris with tack cloth (available in store paint sections) and re-prime bare areas with a good quality water-based primer appropriate for the substrate. Re-priming the entire door will provide the best surface for the new top coat. 	N/A
Wood (Authentic Wood, Premium Composite and Molded)	<ol style="list-style-type: none"> 1. Scuff sand with 400 grit sandpaper or buff the surface of the door thoroughly with 0000 steel wool until the entire surface is dulled and even. Feather out areas where the previous finish is cracked or peeling by removing all loose material and sanding outward until the surface is uniformly level. 2. Remove all loose debris with tack cloth (available in store paint sections) and re-prime bare areas with a good quality water-based primer appropriate for the substrate. Re-priming the entire door will provide the best surface for the new top coat. 3. Doors that were stained will need to be stripped and/or sanded to bare wood and then can be re-stained and top coated or painted. 	
Architectural and Design-Pro Fiberglass, FiberLast and Finishield Steel	<ol style="list-style-type: none"> 1. Do not attempt to remove the finish with paint stripper, solvents or other chemicals, instead, buff the surface of the door thoroughly with 0000 steel wool until the entire surface is dulled and even. 2. Remove all loose debris with tack cloth (available in store paint sections). 3. Doors that were stained can be re-top coated with clear finish or painted if a color change is desired. 	

Previously Unfinished Products

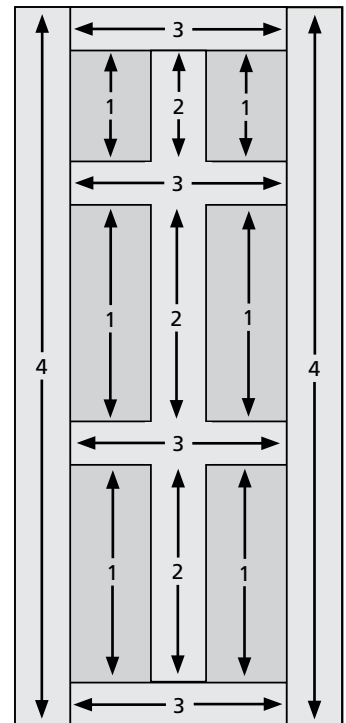
- If the door slab has a glass insert, install the provided screw covers over the screw heads around the glass insert.
- Clean the door with a clean, lint-free cloth, removing all dust and foreign debris. For cleaning use denatured alcohol making sure all residue is removed by turning the cloth often while cleaning. Allow the door to dry thoroughly. **DO NOT USE SANDPAPER OR LACQUER THINNER ON Architectural OR DESIGN/SMOOTH-PRO FIBERGLASS OR FINISHIELD® DOORS.**

For Wood Doors Only:

- Before applying first finishing coat, lightly block sand with the grain all surfaces by hand with 400 grit sandpaper. Remove all handling marks, raise grain, scuffs, burnishes and other undesirable blemishes. For doors with wood veneers, veneers are very thin and it can be easy to sand through the veneer. Do not sand veneers any more than necessary.
- Stile and rail doors have wood panels that can float. If necessary, adjust panels before finishing by carefully realigning with a wood block and hammer.

Finish the Door

Use the table below to find your product and desired finish and follow the instructions in the corresponding box. The illustration to the right shows the recommended order to apply finishing materials to the door by any method except spraying. Finishing materials should be first applied, in the direction of the arrows, to the door panels (1), then to the vertical members, or stiles (2), horizontal members, or rails (3) and finally to the outer stiles (4). This method has been tested to yield the best results. You may, however, use any method that you choose.



	Doors to be Painted	Doors to be Stained
Wood (Authentic Wood, Premium Composite and Molded)	<ol style="list-style-type: none"> Before applying first finishing coat, lightly block sand with the grain all surfaces by hand with 400 grit sandpaper. Remove all handling marks, raise grain, scuffs, burnishes and other undesirable blemishes. Clean the door with a clean, lint-free cloth, removing all dust and foreign debris. For cleaning use denatured alcohol making sure all residue is removed by turning the cloth often while cleaning. Allow the door to dry thoroughly. Seal an un-primed door slab with a good quality water-based primer. Paint all sides of the door, jamb and molding with a good-quality exterior water-based 100% acrylic latex or solvent-based paint. Interior door or trim paint may be used on interior doors and interior surfaces of exterior doors. Spray applications work best. To simulate a traditional stile and rail door look when using a paintbrush, paint the panels first, then across all the rails from one edge of the door to the other. Then paint the stiles from the top of the door to the bottom. The door can also be rolled for a stipple look. For best results, apply multiple light coats. 	<ol style="list-style-type: none"> Clean the door with a clean, lint-free cloth, removing all dust and foreign debris. For cleaning use denatured alcohol making sure all residue is removed by turning the cloth often while cleaning. Allow the door to dry thoroughly. For un-primed units to be stained, we recommend applying a pre-stain wood conditioner prior to staining to promote a uniform appearance and avoid sharp color contrasts or a blotchy appearance. To add color after pre-stain conditioner, use an exterior oil-based stain for the next coat. Top coats may be an oil-based or water-based clear polyurethane finish. A marine-grade varnish is recommended on all exterior doors.
Steel	<ol style="list-style-type: none"> Clean the door with a clean, lint-free cloth, removing all dust and foreign debris. For cleaning use denatured alcohol making sure all residue is removed by turning the cloth often while cleaning. Allow the door to dry thoroughly. Lightly scuff and sand the door face and back (to improve paint adhesion) and wipe the door clean with denatured alcohol. If the door jamb and molding are primed, clean with a damp cloth and allow to dry. Lightly sand any rough areas and re-clean. Paint all sides of the door, jamb and molding with a good-quality exterior water-based 100% acrylic latex or solvent-based paint. Interior door or trim paint may be used on interior doors and interior surfaces of exterior doors. Spray applications work best. To simulate a traditional stile and rail door look when using a paintbrush, paint the panels first, then across all the rails from one edge of the door to the other. Then paint the stiles from the top of the door to the bottom. The door can also be rolled for a stipple look. For best results, apply multiple light coats. 	N/A
Grained Fiberglass (Design-Pro)	<ol style="list-style-type: none"> Clean the door with a clean, lint-free cloth, removing all dust and foreign debris with denatured alcohol making sure all residue is removed by turning the cloth often while cleaning. Allow the door to dry thoroughly. DO NOT USE SANDPAPER OR LACQUER THINNER ON DESIGN-PRO FIBERGLASS DOORS. Paint all sides of the door, jamb and molding with a good-quality exterior water-based 100% acrylic latex or solvent-based paint. Interior door or trim paint may be used on interior doors and interior surfaces of exterior doors. Spray applications work best. To simulate a traditional stile and rail door look when using a paintbrush, paint the panels first, then across all the rails from one edge of the door to the other. Then paint the stiles from the top of the door to the bottom. The door can also be rolled for a stipple look. For best results, apply multiple light coats. 	<ol style="list-style-type: none"> Clean the door with a clean, lint-free cloth, removing all dust and foreign debris. For cleaning use denatured alcohol making sure all residue is removed by turning the cloth often while cleaning. Allow the door to dry thoroughly. For the best results, we recommend using a professional quality, heavy body or highly viscous exterior gel stain. Apply an even amount of stain with a foam brush or lint free cloth in the direction of the wood grain. Work the stain into the surface grain using a circular or cross grain motion before finally wiping the stain in the direction of the grain. For best results, apply stain to one section of the door at a time, starting with the embossed panels first and proceeding with the flat sections. Before stain dries completely, wipe the surface in the direction of the grain with a clean cheesecloth or rag to remove any excess stain. Tip: Use a dry, soft natural bristle brush to feather out lap marks and blend stain. Blot brush on a dry cloth and feather stain until desired color is reached. If a darker appearance is desired, apply a second coat after the first coat dries. Follow the manufacturer's instructions to apply and wipe the stain with a brush or rag. After one side is stained and has completely dried, repeat staining process on the remaining unstained sides of the door. Allow stain to dry per manufacturer's recommendations (may take up to 48 hours). Spray on at least one coat of clear exterior grade polyurethane. THE FIRST COAT MUST BE SPRAYED ON. Additional coats may be sprayed or brushed on. Repeat process on the remaining unfinished sides of the door.

	Doors to be Painted	Doors to be Stained
Smooth Fiberglass (Smooth-Pro)	<ol style="list-style-type: none"> 1. Clean the door with a clean, lint-free cloth, removing all dust and foreign debris with denatured alcohol making sure all residue is removed by turning the cloth often while cleaning. Allow the door to dry thoroughly. DO NOT USE SANDPAPER OR LACQUER THINNER ON SMOOTH-PRO FIBERGLASS DOORS. 2. Paint all sides of the door, jamb and molding with a good-quality exterior water-based 100% acrylic latex or solvent-based paint. Interior door or trim paint may be used on interior doors and interior surfaces of exterior doors. Spray applications work best. To simulate a traditional stile and rail door look when using a paintbrush, paint the panels first, then across all the rails from one edge of the door to the other. Then paint the stiles from the top of the door to the bottom. The door can also be rolled for a stipple look. For best results, apply multiple light coats. 	N/A
Architectural Fiberglass	<ol style="list-style-type: none"> 1. Clean the door with a clean, lint-free cloth, removing all dust and foreign debris. For cleaning use denatured alcohol making sure all residue is removed by turning the cloth often while cleaning. Allow the door to dry thoroughly. DO NOT USE SANDPAPER OR LACQUER THINNER ON ARCHITECTURAL FIBERGLASS DOORS. 2. Prime the door slab with a good quality water-based primer. 3. Paint all sides of the door, jamb and molding with a good-quality exterior water-based 100% acrylic latex or solvent-based paint. Interior door or trim paint may be used on interior doors and interior surfaces of exterior doors. Spray applications work best. To simulate a traditional stile and rail door look when using a paintbrush, paint the panels first, then across all the rails from one edge of the door to the other. Then paint the stiles from the top of the door to the bottom. The door can also be rolled for a stipple look. For best results, apply multiple light coats. 	<ol style="list-style-type: none"> 1. Clean the door with a clean, lint-free cloth, removing all dust and foreign debris. For cleaning use denatured alcohol making sure all residue is removed by turning the cloth often while cleaning. Allow the door to dry thoroughly. 2. For the best results, we recommend using a professional quality, heavy body or highly viscous exterior gel stain. Apply an even amount of stain with a foam brush or lint free cloth in the direction of the wood grain. 3. Work the stain into the surface grain using a circular or cross grain motion before finally wiping the stain in the direction of the grain. For best results, apply stain to one section of the door at a time, starting with the embossed panels first and proceeding with the flat sections. 4. Before stain dries completely, wipe the surface in the direction of the grain with a clean cheesecloth or rag to remove any excess stain. Tip: Use a dry, soft natural bristle brush to feather out lap marks and blend stain. Blot brush on a dry cloth and feather stain until desired color is reached. 5. If a darker appearance is desired, apply a second coat after the first coat dries. Follow the manufacturer's instructions to apply and wipe the stain with a brush or rag. After one side is stained and has completely dried, repeat staining process on the remaining unstained sides of the door. 6. Allow stain to dry per manufacturer's recommendations (may take up to 48 hours). Spray on at least one coat of clear exterior grade polyurethane. THE FIRST COAT MUST BE SPRAYED ON. Additional coats may be sprayed or brushed on. Repeat process on the remaining unfinished sides of the door.

Please visit jeld-wen.com or call us at 1-800-535-3936 for specific product information, warranty and care and maintenance information.

Thank you for choosing





Interior and Exterior Door Slab and System Limited Warranty

OUR WARRANTY TO YOU...

JELD-WEN® Products¹ are designed to create lasting value for your home. This warranty is effective for JELD-WEN products manufactured on or after **October 1, 2017** for use in the United States and Canada. Any previous warranties will continue to apply to door products manufactured by JELD-WEN prior to this date. For additional information, including care and maintenance, information, refer to www.jeld-wen.com or www.jeld-wen.ca.

WHAT THIS WARRANTY COVERS

We warrant to the original owner² if your JELD-WEN Product exhibits a defect in material or workmanship within the time periods from the date of purchase as specified below, we will, at our option, repair, replace or refund the purchase price of the Product or component part. Skilled labor³ (where deemed necessary by us) to repair or replace any component is provided for **one (1) year** from the date of purchase.

Owner-Occupied Single-Family Residence Limited Warranty

Door Slabs: Except as set forth below, we warrant our door slabs, including any glass inserts, miscellaneous hardware, and accessories provided and installed by us, as follows:

Door Slab	Coverage
Fiberglass Exterior Doors	As long as you own and occupy your residence
Steel Exterior Doors	Ten (10) years
Wood Exterior Doors	Five (5) years
Interior MDF Doors	Ten (10) years
All Other Interior Doors	Five (5) years

Factory Prefinish: We warrant the factory-applied prefinish on our doors against peeling, checking, or cracking for periods listed below. Should the factory prefinish be proven defective, we will at our option, replace or refinish the door or pay up to the credit indicated per opening to the current owner. (Note: this coverage applies to factory-applied finish coat options only; standard factory-applied primer is not a finish coat.)

Product	Coverage	Refinish Credit
Aurora® Fiberglass Doors	5 years	\$350 per opening
Other Fiberglass and Steel Doors	10 years	\$100 per opening
Custom Exterior Wood Doors	1 year	\$250 per opening
Custom Interior Wood Doors	1 year	\$150 per opening
All other Doors	1 year	\$100 per opening

Door Frames: We warrant our door frames for **one (1) year** from the date of purchase.

AuraLast® Protection for Door Slabs and Frames: Our AuraLast pine wood door slabs will be free from wood decay and/or termite damage for **twenty (20) years** from the date of initial purchase. Our AuraLast pine door frame components will be free from wood decay and/or termite damage **for as long as the original consumer owns the home** in which the AuraLast wood frames are originally installed. Warranty coverage outside Canada, the contiguous 48 states and Alaska is contingent upon approval from the JELD-WEN Customer Care Department. Please contact us.

Severe Weather® Glass: We warrant each Severe Weather glass unit for **ten (10) years**.

Retractable Screens: We warrant retractable roll screens for **five (5) years**.

Spontaneous Glass Breakage: We warrant sealed glass units installed in exterior doors (excluding laminated glass, and special glazings) for spontaneous breakage for **one (1) year** (including free replacement glass and skilled labor³ necessary to replace the glass for one (1) year. Spontaneous breakage occurs when the glass develops a crack without sign of impact.

Commercial Limited Warranty (Other than Owner-Occupied Single-Family Residence)

All Door Slabs, Components, Prefinishes, and Options: Warranty coverage is the lesser of **five (5) years** from the date of purchase or the period indicated above for Owner-Occupied Single-Family Residences.

Transferability

This warranty is not transferable.

Continued on next page

HOW TO GET ASSISTANCE

If you have a problem with your JELD-WEN Door, immediately upon discovery, contact the distributor or dealer from whom you purchased our product or contact us directly:

In the United States:

Mail: JELD-WEN Customer Care
Attn: Door Warranty Claims
P.O. Box 1329, Klamath Falls, OR 97601
Phone: 800-JELD-WEN (800-535-3936)
Fax: 800-436-5954
Email: CustomerServiceAgents@jeld-wen.com
Web: www.jeld-wen.com/contact-us

In Eastern Canada:

Mail: JELD-WEN Service Department
90, rue Industrielle
Saint-Appollinaire, Quebec, Canada G0S 2E0
Phone: 800-463-1930
Fax: 888-998-1599

In Western Canada:

Mail: JELD-WEN Service Department
550 Munroe Avenue
Winnipeg, Manitoba, Canada R2K 4H3
Phone: 888-945-5627
204-668-8230
Fax: 204-663-1072
Email: wpgservice@jeld-wen.com

We can respond quickly and efficiently if you provide the following: a) date and location of purchase, or product

identification from the tag on the top edge of the slab, b) how to contact you, c) the address where the product can be inspected, and d) a description of the apparent problem and the product (photographs are helpful).

What We Will Do

Upon receiving your notification, we will send out an acknowledgement within three business days to the contact, which you have provided. We will investigate your claim and will begin to take appropriate action within 30 days after receipt of notification. If your warranty claim is denied, we may charge an inspection fee for an onsite inspection that is required or requested by you.

If your claim is accepted, and we choose to repair or replace the product or a component of the product, the replacement product/component will be provided in the same specification as the original product. Replacement products, components and services are warranted for the balance of the original product or service warranty, or 90 days, whichever is longer.

If the claimed nonconformity is warp of a door slab, we may defer repairing or replacing the door slab for a period up to 12 months from the date of claim. It is not uncommon for a temporary warp condition to occur as the door slab adjusts to local humidity and temperature conditions. This deferral will not be counted against the warranty period.

Product Purchase Date: _____

Order Number: _____

WHAT THIS WARRANTY DOES NOT COVER

JELD-WEN manufactures and sells both individual door slabs and complete door systems. This warranty does not cover parts or components (e.g., locksets, handles, etc.) not sold by JELD-WEN to the original owner. See your distributor or dealer regarding the warranty on the entire door system and/or these other components.

We are not liable for:

- Normal wear and tear, including normal wear and tear of weatherstrip; and natural weathering of surfaces or variations in the color or texture of wood or finish; surface cracks that are less than 1/32" in width and/or 2" in length; for knotty alder and juniper: surface checks that are less than 1/8" in width and/or 5" in length, and knot placement, quantity, or size.
- Problems due to misuse or abuse; failure to follow the care and maintenance instructions; or as a result of any cause beyond our reasonable control (e.g. fire, flood, earthquake, other acts of nature, and acts of third parties outside of our control).
- Problems related to: improper field finishing of all surfaces (front and back) and edges (top, bottom, and sides) of the door slab and frame (See our Finishing Instructions at www.jeld-wen.com/resources); variation or unsatisfactory results in sheen or texture resulting from the field application of paint or any other finishing material.
- Failure to provide an adequate overhang for exterior doors; damage caused by extreme temperature buildup where storm doors are present. For general guidelines,

see our "Appropriate Protection for Exterior Doors" in our product literature or at www.jeld-wen.com/resources; for specific information pertaining to your structure, consult your contractor or other building professional.

- Warp for any 3'6" wide by 8' 0" high by 1 3/4", or smaller door slab, which does not exceed 1/4" in the plane of the door slab itself; door slabs wider and/or higher are not guaranteed for warp.
- Bow or misalignment in the frame or jamb in which the door slab is hung (if such is purchased from JELD-WEN unmachined and not prehung).
- Slight expansion or contraction due to varying environmental conditions; slab movement (shrinkage or swelling) of 1/4" or less due to temperature and humidity, consult our Care & Maintenance documents on how to work with this natural movement.
- Wood decay for wood components other than of Auralast pine; and wood decay for any wood components (including pine) that come in direct contact with soil. Note: superficial mold/mildew does not indicate wood decay.

Continued on next page

- Problems related to water and/or air infiltration due to improper assembly; installation errors or flaws in building design and construction; installation must be in strict conformance with the installation instructions provided by the manufacturer of the door entry system.
- Structural integrity issues or other problems caused by improper field fitting of the hardware, improper sizing of the door slab, or other assembly problems.
- Slight imperfections or wavy distortions in the glass that don't impair structural integrity. Note: wavy distortions in the glass (e.g. related to laminate interlayer or heat strengthening of glass) are not considered a defect. Slight color variations in glass are not considered a defect.
- Screen damage due to normal wear and tear, misuse, abuse, or insect or animal activity.
- Condensation or damage as a result of condensation (Note: unless due to insulating glass failure, most condensation problems are related to excessive humidity levels in a structure; contact a heating/air conditioning specialist for help).
- Damage or poor product performance resulting from installation into a condition that exceeds product design standards and/or certified performance specifications and/or does not comply with applicable building codes.
- Hardware, accessories or inserts that are not provided by us.
- Discoloration or rusting of decorative metal accent options, such as grilles, clavos, straps, etc.; discoloration of wood sills provided by us.
- Cost for labor, removal or disposal of defective product(s), installation or finishing of the replacement door or component.
- Incidental or consequential damage. Some states/provinces do not allow the exclusion or limitation of incidental or consequential damages, so this may not apply to you.

Important Legal Information -- Please read this carefully. It affects your rights.

This Limited Warranty document sets forth our maximum liability for our products. We shall not be liable for special, indirect, consequential, or incidental damages. Your sole and exclusive remedy with respect to any and all losses or damages resulting from any cause whatsoever shall be as specified above. We make no other warranty or guarantee, either express or implied, including implied warranties of merchantability and fitness for a particular purpose to the original purchaser or to any subsequent user of the Product, except as expressly contained herein. In the event state or provincial law precludes exclusion or limitation of implied warranties, the duration of any such warranties shall be no longer than, and the time and manner of presenting any claim thereon shall be the same as, that provided in the express warranty stated herein. This Limited Warranty document gives you specific legal rights, and you may have other rights that vary from state/province to state/province.

Any dispute, controversy or claim arising out of or relating to this warranty, any alleged breach thereof, or the use or sale of the products to which this warranty applies shall be resolved by mandatory and binding arbitration administered by the American Arbitration Association in accordance with its commercial arbitration rules. Original purchaser agrees that they may assert claims against JELD-WEN in their individual capacity only, and not as a plaintiff or class member in any purported class action proceeding. This warranty shall be interpreted in accordance with the laws of Oregon (excluding Oregon's conflict of laws principles). If any provision of this warranty is deemed illegal or unenforceable in a judicial proceeding, that provision shall be severed and excluded, and the remainder of this warranty shall continue in force. Rejection of these dispute resolution provisions must be sent to JELD-WEN at the address provided herein within thirty (30) days of original purchaser's receipt of the Products to which this warranty applies.

No distributor, dealer or representative of JELD-WEN has the authority to change, modify or expand this warranty. The original purchaser of this Product acknowledges that they have read this warranty, understand it and are bound by its terms and agrees to provide this warranty to the original owner of the structure into which the Product is installed.

¹"JELD-WEN Products" shall refer to interior and exterior door slabs and systems marketed under the JELD-WEN brand name for use in the United States and Canada. See our separate Export Warranty for applicable coverage on products used outside the United States and Canada.

²This warranty extends to the original owner (original owner means the contractor/dealer/distributor/purchaser and the initial owner of the structure where the product is initially installed) and is not transferable. The original purchaser of this product acknowledges that they have read this warranty, understand it and are bound by its terms and agrees to provide this warranty to the original owner of the structure into which the product is installed. Should state or provincial law preclude no transferability, then the warranty period is effective as applicable up to five (5) years from the date of initial purchase for door slabs and systems and one (1) year from the date of manufacture for the factory prefinish.

³"Skilled labor" refers to tasks where specialized technical knowledge, experience, methods or tools are required to properly identify, diagnose and/or correct product-related problems.



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:

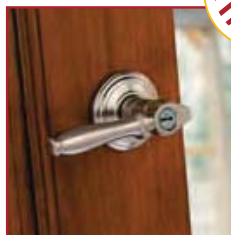
Kwikset Signature Series™



Deadbolts



Handlesets



Levers



Knobs

Available Finishes



L03/3-Polished Brass



5-Antique Brass



11P-Venetian Bronze



15-Satin Nickel



15A-Antique Nickel



26-Polished Chrome



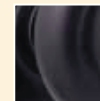
26D-Satin Chrome



501-Rustic Bronze



502-Rustic Pewter



514-Iron Black

* Finish offering varies by style

Kwikset

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LIT 7-3-26 • 13843

www.kwikset.com/smartkey

Kwikset
The Beauty of Strength.



SMART KEY

Customized Security.



Signature Series



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*.

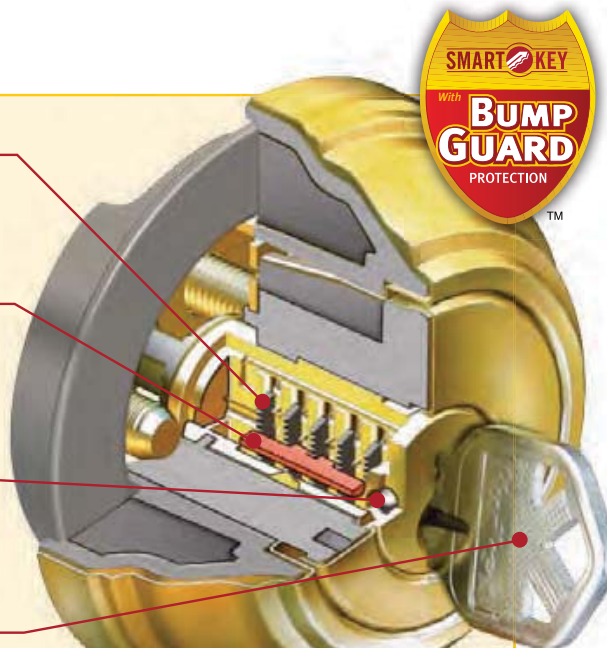
DRILL RESISTANCE

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

KEY IT YOURSELF

Lock is rekeyable by using the included learn 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.

2



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

FORCE 5 DOOR SYSTEM™ OWNERS MANUAL AND WARRANTY GUIDE



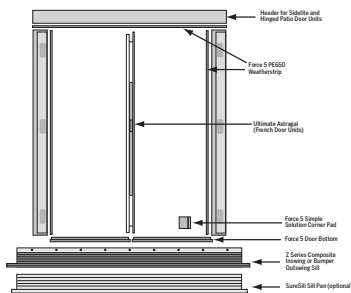
Congratulations on your purchase of a certified FORCE 5 Door System™ incorporating components from Endura Products, Inc. Endura's components are designed to create performance and lasting value for your door system. This manual, and all instructions and warranties contained herein, is effective for all Force 5 Door Systems™ assembled and installed on or after January 1, 2011 for use in the United States and Canada. For additional information, contact your Force 5 dealer/distributor or refer to us at www.enduraproducts.com.



Your Force 5 Door System™: Force 5 Door Systems™ are tested and certified to air and water performance levels particular to the door panels and configurations provided by Force 5 Certified Prehangers. They incorporate the highest performance exterior door components from Endura Products, Inc. with door panels, door lites and hardware utilized by the Force 5 Prehanger, and are backed by a Performance Warranty. Please utilize this guide, in addition to instructions for door panel finishing, maintenance and warranties, for ongoing performance of your Force 5 Door System™.

Force 5 Components: Force 5 Door Systems™ include the following components:

- Z Series Composite Inswing or Bumper Outswing Sill
- Force 5 PE650 Weatherstrip
- Force 5 Simple Solution Corner Pad
- Force 5 Door Bottom
- Ultimate Astragal (French Door Units)
- Continuous Sill, One Piece Mulls and Header for Sidelite and Hinged Patio Door Units
- SureSill Sill Pan (optional)
- Endura or other approved Multipoint Locking System (optional)
- FrameSaver Door Frames, Mullions, Brick Mould (optional)



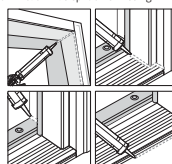
Force 5 Door Unit Identification/Registration: Effective January 1, 2011, all Force 5 Door Units can be identified by the metal Force 5 Door Tag required to be applied by the certified Force 5 Assembler. Please note the Serial Number on the Door Tag for use in registering your Force 5 Door System™ and for reporting any Warranty issues.

Force 5 Assembly and installation: Your Force 5 Door System™ was assembled and installed following specific instructions provided with the door unit. For questions regarding assembly and installation, please refer to our website: www.enduraproducts.com/Force5/AssemblyandInstallation/.

Force 5 Door Unit Care and Maintenance: Your Force 5 Door Unit was designed to provide the maximum possible performance against air and water infiltration for the door panel and configuration selected. For continued performance over an extended period of time, and coverage under the Force 5 Warranty, the following instructions must be followed:

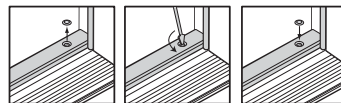
Caulking and Resealing: Recaulking is required to maintain integrity of joints. At least one (1) time per year, inspect and recaulk the following with high quality exterior-grade caulk if caulk has split or is missing:

- Joints of the brickmould, frames, headers or mulls;
- Joints between the sill deck and frames and mullions
- Joints between the sill caps (active and inactive caps) and frame;
- Joints between the exterior sill and subsurface

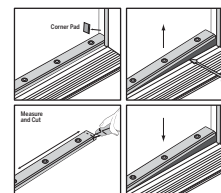
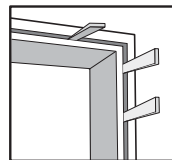


Door Sill Adjustment: Your Force 5 Door System™ incorporates an all composite Z Series sill from Endura. The following steps should be taken at least one (1) time per year to ensure proper sealing and prevention of air and water infiltration:

- As the house or door unit settles, contact between the sill and door bottom may become uneven. Adjust sill cap (inswing sills) to meet door bottom as follows:
 - Remove Simple Solution Corner Pads;
 - Remove the cap plugs on top of sill cap;
 - Adjust the screws counter-clockwise to meet the desired cap height;
 - Replace the cap plugs
 - Replace Simple Solution Corner Pads (Caulk where cap meets jamb first)

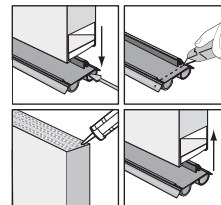


- In the case of a humped sill where adjustment of the cap will not resolve contact issues, further steps may be taken as follows:
 - Remove door from hinges and opening;
 - Remove brick mould or casing;
 - Remove hinge long screws anchoring door to rough opening;
 - Shim jamb legs up to allow sill to straighten;
 - Replace long screws, door, brick mould;
 - Recaulk all joints
- Ensure sill cap length: In cases of extreme exposure, sill cap may not, over time, meet the overall length of the opening. Contact your Force 5 distributor or dealer for a replacement cap. Replace as follows:
 - Remove existing corner pads;
 - Remove existing cap: Using a standard slotted screwdriver, insert end of screwdriver under front (exterior) lip of cap at one end and pry upwards. Repeat step at middle and other end of cap until cap is lifted off. Remember to protect the deck of the sill with a soft cloth to prevent scratching;
 - Cut replacement cap to length of opening;
 - Position cap over cap channel and, using moderate pressure, push cap down into channel;
 - Adjust cap to meet door bottom uniformly;
 - Reapply Force 5 corner pads



Door Bottom Wear and Replacement: Over time and operation of the door unit, door bottoms may tear, bunch or lose elasticity and memory. Door Bottoms must be checked one (1) time per year and replaced if necessary. Replacement door bottoms can be obtained from your Force 5 Distributor and replaced as follows:

- Remove door from hinges and opening;
- Remove old door bottom: Insert slotted screwdriver at one end of door bottom and remove along length of door: Clean and remove any remaining staples and caulk from bottom of door and kerfs of door;
- Cut replacement door bottom to length of door panel;
- Apply the caulk at each end of the door bottom and along the base of the exterior kerf leg;
- Press replacement door bottom in place – staple to secure;
- Allow caulk to dry and reinstall door in opening.

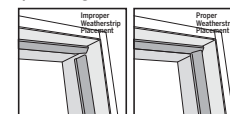


Weatherstrip Positioning, Wear and Replacement:

Force 5 PE650 Weatherstrip may be improperly installed or become torn or damaged. Check Weatherstrip upon installation and one (1) time a year for (i) tears in Weatherstrip; (ii) Weatherstrip not to length; (iii) Weatherstrip not meeting at intersection of frames and headers; or (iv) Weatherstrip bunched at bottom against door sill. Any of the above require repositioning or replacement of the weatherstrip as follows:

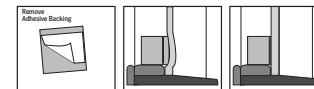
- Use only Force 5 PE650 Weatherstrip for replacement. Any other weatherstrip will void the Force 5 Warranty.
- Measure length of side frame/mull weatherstrip kerf from top of frame slot to sill deck – cut weatherstrip to indicated length and install in kerf. Take care to avoid bunching along length of kerf or at ends;
- Measure length of header kerf – cut weatherstrip to indicated length and install in kerf. Header weatherstrip must meet side jambs evenly at both sides.
- DO NOT PAINT WEATHERSTRIP. Paints, stains or varnishes contain solvents which, when coming into contact with materials used in weatherstripping, cause these materials to lose their flexible qualities, making them brittle and leading to a loss of sealing contact.

Weatherstrip Positioning continued



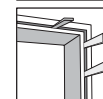
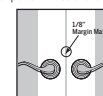
Simple Solution Corner Pad Positioning, Wear and Replacement: Corner Pads are an integral part of the Force 5 Door System™ weathersealing. Damaged or incorrectly positioned corner pads can cause a loss of sealing. Check corner pads upon door installation and at least one (1) time a year for the following:

- Use only Force 5 Simple Solution Corner pads for installation or replacement. Use of any other corner pads will void the Force 5 Warranty.
- Corner Pads should be applied ONLY AFTER (i) final painting; and (ii) sill cap adjustment. If door frame is repainted, Corner Pads should be removed and a new pair resapplied;
- After final sill cap adjustment (or upon replacement), position Simple Solution pad as follows:
 - Place bead of caulking at end of sill cap
 - Remove the adhesive backing pad
 - The raised fin of the corner pad should be tucked under the weatherstrip;
 - The bottom of the Simple Solution Pad should be flush with the cap of the sill;
 - Press Simple Solution Corner Pad in place

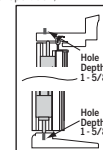


Ultimate Astragal: Endura's Ultimate Astragal is an integral part of Force 5 French Door Units. To ensure proper performance of the Ultimate Astragal, check the following upon installation and one (1) time per year:

- Ensure proper margin between active and inactive doors when active door is closed – margin should be 1/8" maximum
 - If margins exceed 1/8", remove casing, doors from hinges and long hinge screws into rough opening. Shim behind frames at hinge points on both active and inactive doors to gain proper margin.
 - Replace long screws, doors and casing. Recaulk where necessary.



- Ensure header and sill flush bolt receivers are installed properly and flush bolt movement is for full range of operation;



-

- Exterior Frame/Hardware Adjustments:** Proper tight and consistent contact between the door panel and the weatherstrip is necessary for Force 5 Door System™ performance to tested standards. Check the following upon installation and two (2) times per year:

- If door panel is sagging in the frame or margins are inconsistent:

-

-

- Following installation, check to ensure that sheet metal or other impervious head flashing is installed to serve as a moisture barrier above the brick maul, that a water resistant tape or seal has been installed over the head flashing, and that caulk has been applied around all joints between flashing, brick maul and other surfaces
- Visually inspect header flashing one (1) time per year for any damage cracks in joints or other gaps in the moisture barrier. Repair or replace flashing as necessary. Recaulk all joints.

Check for Proper Flashing

Check for Proper Caulking

- Thoroughly dry surfaces, making them free of dust, dirt, oil, grease, wax, chalk and other contaminants.
- A high quality exterior latex paint, preferably a 100% acrylic-based product, should be used as a finish coat.
- Follow the paint manufacturer's recommendations on thinning, application techniques, re-coat and dry times.
- In general, paint should be applied when both the surface and air temperature is between 50 and 90 degrees F. Relative humidity should be below 85%.

This FORCE 5 WARRANTY ("Warranty"), extended by Endura Products, Inc. ("Endura"), provides that, subject to the limitations and exclusions below, and for the duration of the applicable Warranty Period (i) the Endura Components contained therein (and as detailed in Section 1 below) will be free from non-conformities in materials and workmanship and (ii) provides for additional payment by Endura of up to a maximum of \$1,500 reimbursement if the Force 5 door system fails to perform (on the basis of water infiltration) to the certified performance criteria of that system. This Warranty applies to Force 5 certified Door Systems purchased and installed on or after December 1, 2010.

- Z Series 2 Seal High Dam (13/8") Adjustable Inswing Door Sill or Composite
- Composite High Dam Bumper Outswing Sill
- Simple Solution Corner Pads, properly installed.
- Force 5 PE650 or other Endura tested and approved Force 5 Weatherstrip.
- Endura Force 5 Multi-Point lock bottom applicable to door construction type.
- Endura Ultimate, Ultimate 3 Point Compatible or Multipoint Astral on double door (French) systems;
- Frame components (excluding side frames) for continuous sliding, hinged patio and additional multiple panel configurations that meet the dimensional machining requirements and specifications as tested and provided to the Customer;
- Endura multipoint lock system or other certified tested and approved multipoint lock system (optional);
- Endura sill pan installed in accordance with published Force 5 instructions (optional)

2. **Force 5 Warranty Period:** Lifetime, non-transferable Warranty from the date the Force 5 Door System was purchased from an authorized dealer, except in commercial or multi-unit residential applications in which the Warranty shall be limited to 5 years from the date the Force 5 Door System was purchased from an authorized dealer and which shall be transferable during and for any balance of the original 5 year period.
3. **Force 5 Unit Identification:** Each Force 5 Door System may be identified by a non-removable tag or label identifying such Force 5 door unit. Removal of such label by any third party installer or residential owner will void the Force 5 Warranty on the individual Door unit.

Force 5 Warranty Reimbursement: If the Force 5 Door System includes all of the applicable components referenced above, has been properly assembled and installed following recommended Force 5 procedures, has not been subjected to any unauthorized tampering or misuse, and the door system and its components have been properly maintained by the Warranty Holder, and the product (or component(s)) fail to perform to the certified and published levels of air and water infiltration applicable to the Door System during the Warranty Period solely due to manufacturing defects in the product, then the Force 5 Door System is notified using Force 5 Warranty Claims Procedure, then Endura will:

- Provide a factory authorized repair or replacement component, at no cost to the Warranty Holder. The factory authorized provider responsible for the repair or replacement of the component(s) is the Force 5 Door System's designated dealer (assembly and installation labor is not included). OR at Endura's option, refund the Warranty Holder's purchase price (the lesser of the actual purchase price or the original purchase price) and the cost of shipping, handling, and repairing or replacing the component(s) as provided. AND,
- Pay to Warranty Holder either, selected at Endura's option, (a) the fair market value of any other property damaged due to water infiltration caused solely by the component(s) which necessitated the repair or replacement, or (b) Warranty Holder's actual reasonable costs to repair or replace such damaged property or install replacement component(s) supplied by Endura as provided above, in either case, up to the maximum amount listed below for the specified component(s). Water damage to property is not covered. Endura will not be timely manner to mitigate any resulting property damage, provide evidence of costs of damages incurred as requested by Endura, and timely submit a claim as provided. If the fair market value of any damaged property is unclear, Endura shall have a three (3) day window to provide a replacement.

FORCE 5 DOOR SYSTEM WARRANTY REIMBURSEMENT GUIDELINES					
Components Utilized	With Sail Pan [®]		Without Sail Pan		
	With Multipoint Lock [®]	Without Multipoint Lock [®]	With Multipoint Lock [®]	Without Multipoint Lock [®]	
Single Door	\$500	\$750	\$750	\$1000	
Multipoint Panel Door [®]	\$1,500	\$1,000	\$1,750	\$1,000	
Frame/Glaze	\$400	\$400	\$400	\$400	
Single/French Door	\$750	\$75	\$75	\$75	
CSL/Weight Plate	\$250	\$150	\$250	\$150	
RAM Certified Assembly [®]	\$400	\$400	\$400	\$400	
	\$100	\$100	\$100	\$100	

- (a) \$ Amount represents maximum limit on Force 5 Warranty Claims for Door units/components Referenced;
- (b) Must be a SureSil sill pan approved by Endura and installed following Force 5 procedures;
- (c) Must be a 3 Point Lock system tested by Endura with such door panel and approved by Endura;
- (d) Multiple panel units include French Door, Continuous Sidelite and Pinedo Panel doors;
- (e) If the Force 5 Door System is assembled by a third party NAMI certified distributor/dealer and bears the original NAMI certified assembly label (check door-hinge edge), the Product is a "NAMI Certified Assembly".

(i) FAILURE OF THE FORCE 5 DOOR SYSTEM DUE TO CHANGES TO OR USE OF COMPONENTS WHICH DO NOT ADHERE TO THE SPECIFICATIONS PROVIDED TO SUCH THIRD PARTIES BY ENDURA and which have not been utilized in

- (iii) FAILURE OF THE FORCE DRY SYSTEM DUE TO IMPROPER USE OF COMPONENTS
 FAILURE OF THE FORCE DRY SYSTEM DUE TO IMPROPER USE OF COMPONENTS (as outlined in Section 1 above) and which have not been utilized in certified Force 5 testing for such door system;
- (iv) FAILURE OF THE FORCE 5 DOOR SYSTEM DUE TO IMPROPER ASSEMBLY BY THIRD PARTIES, inconsistent with recommendations and written instructions provided by Endura or generally available in Endura's Product Manuals as well as written communications to buyers by bulletins or other written communications on Endura's website www.enduraproducts.com;
- (v) FAILURE OF THE FORCE 5 DOOR SYSTEM DUE TO IMPROPER INSTALLATION BY A BUILDER, REMODELOR OR OTHER PERSON OR ENTITY THAT INSTALLS, OR REPAIRS OR REPLACES THE PRODUCT, inconsistent with recommendations and written instructions provided by Endura or generally available in Endura's Product Manuals as amended time to time by bulletins or other written communications on Endura's website www.enduraproducts.com;
- (vi) FAILURE OF THE FORCE 5 DOOR SYSTEM DUE TO MISUSE OR ABUSE, for which its use and Warranty was not intended, such conditions to expressly include failure due to mechanically or other non-water related driven water, utilization of insuring door units and components for outsourcing applications, use of the door or its components for purposes other than intended, or any other modifications or uses not specified in the Force 5 prehang or installation instructions;
- (vii) FAILURE OF THE FORCE 5 Door System due to failure of non-Endura supplied components (e.g. door slabs, assembly door panel or hardware failure).

1. Homeowner notifies installer (dealer/distributor rep "Builder") of issue. Builder inspects complaint using Job Site Pre-Inspection Checklist. Builder will make attempts to fix the problem using Force 5 Care and Maintenance instructions provided in this guide.
2. If service call cannot be resolved, homeowner has not solved the problem. Homeowner submits Force 5 Warranty Claim Form within 60 days of original complaint.
3. Builder, together with an Endura Representative ("Endura Rep"), perform a more detailed inspection to determine the cause of the complaint.
4. Builder and Endura Rep determine whether the unit in question was assembled, installed and maintained in accordance with information set forth in Endura's Force 5 Assembly, Installation and Maintenance Instructions.
5. If the problem has been identified as either a field installation issue or an assembly issue, the responsible parties will cover the cost to repair the unit. Problems resulting from improper installation shall be the responsibility of the installer. Problems resulting from improper assembly shall be the responsibility of the Pre-Hanger. In the event that satisfactory repairs can not be made to the unit, the cost of replacement of the entire unit shall also be covered by the responsible party.
6. If it is determined that the problem is due to a faulty door system, meaning that ALL Force 5 Assembly, Installation and Maintenance instructions were followed, the manufacturer will cover the conditions stated in the written Force 5 Warranty to mitigate the problem or fix/ existing conditions.

When a problem with a door unit is first identified, the Builder must field the call following the checklist below to determine the next steps:

1. Ensure that the door unit in question (i) has been installed by the builder; (ii) is identified (by Force 5 tag) to be a Force 5 door unit; and (iii) contains all required Force 5 components;
2. Ensure that proper installation and required Maintenance have occurred as follows:
 - a. Check that the door unit is square and margins are even on all sides;
 - b. Check that the door unit is plumb – the weatherstrip is in contact with all surface faces of the door, including top to bottom;
 - c. Was flashing or a drip cap installed above the door?
 - d. Is there caulking – without interruption – around the perimeter of the brick mull/casing and the surrounding wall?
 - e. Is there caulking under the sill? Is a sill pan installed?
 - f. Are Simple Solution corner panels installed correctly in the bottom two corners of the door frame? Are they painted or top coated?
 - g. Is the weatherstrip properly inserted? Meeting at the top corners? Bunched up or torn?
 - h. Is the lock strike plate adjusted for tight latching?
 - i. For French Doors (i) is the margin between the doors even and 1/8" maximum? (ii) is the hole in the sill drilled to 1/8" with a reamer? (iii) is the flush bolt too touching the caulk?

Please photocopy and fax form to: Customer Service, Endura Products, Inc. at (336) 668-4478
or email to sales@enduraproducts.com

This Force 5 Door System Warranty Claim Form will serve as written notice to Endura Products, Inc. of failure of Force 5 System to perform to stated criteria. This form must be received by Endura within sixty (60) days of the original complaint. Upon receipt of this form, Endura will open a claim to investigate the damages listed below and determine cause. As stated in Endura's Force 5 Warranty, Endura reserves the right to inspect, repair or replace a part or product to meet the needs of its original purpose. Endura reserves the right to mitigate any damages arising from this warranty with the original purchaser of the product to the mutual satisfaction of both parties.

Name: _____
Address _____

Phone _____ Fax _____
Email: _____
Original Homeowner? Yes _____ No _____
Dates of: Home Purchase _____
Complaint _____
Pre-Inspection _____

Builder Information
Company: _____
Contact: _____
Address: _____

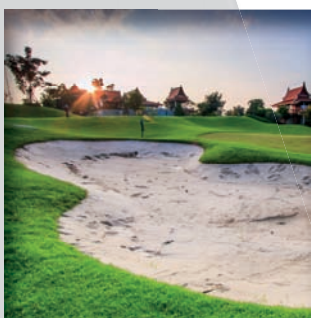
Phone _____ Fax _____

Pre-Hanger Information _____
Company: _____
Contact: _____
Address: _____

Phone _____ Fax _____

1 Description of Warranty-Related Problem and Associated Damage
2 (attach a photo if available)

VINYL
NEW CONSTRUCTION
AND REPLACEMENT
WINDOWS





ALSO Available

- + Series 130 Slider
(Available with DP50; DP40; and DP30 rating, based on size ordered)
- + Series 130 Picture Window
- + Series 130 Shapes

SERIES 130

VINYL SINGLE HUNG WINDOW



- + **Step Bevel design** creates a beautiful exterior appearance
- + **Bottom sash tilts in** for easy cleaning from inside
- + **Aluminum half screen** comes standard*
- + **Block & tackle** balance system for easy sash movement
- + **Warm-Edge** spacer system provides energy saving thermal performance
- + **DP 50 rating**
(window size tested 53" x 77")
- + **Aluminum reinforcement standard** in lock & meeting rails and sash stiles
- + **Dual Sweep locks** (standard at

27¼" and above) help provide a weather-tight seal and added security

- + **Dual weather-stripping** helps block air and water infiltration, keeping harsh elements outside and energy-saving comfort inside
- + **Step sill design** combines water run-off and aesthetic features of a sloped sill with the structural strength and internal drainage system of a pocket sill
- + **Jamb depth: 3"**
- + **Limited lifetime warranty**

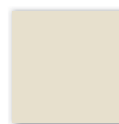
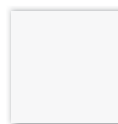
Series 130 window shown here with Nail Fin Only frame

+ **COLOR**
OPTIONS*

White

Almond

Clay



SELECT FROM FOUR FRAME TYPES:

- + FRONT FLANGE ONLY
- + NAIL FIN ONLY
- + J-CHANNEL
- + BOX FRAME

Front Flange Only



Nail Fin Only
(no J-Channel)



J-Channel
(nail fin & front flange)



Box Frame
(no nail fin & no front flange)



SERIES 130

VINYL SINGLE HUNG WINDOW

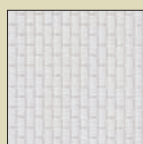
CUSTOM Options

- + Non-reflective Low-E Glass and Non-reflective Low-E Glass with Argon Gas
- + Double strength and obscure glass
- + Oriel style
- + Sash Limiter
- + Factory mulling and Factory Prepared mulling
- + Commodity sizing available for Front Flange Only model
- + Custom sizes available

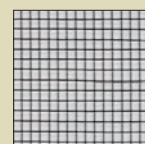
SCREEN Options**

- + Fiberglass half screen (standard)
- + Charcoal Aluminum half screen (optional)

Fiberglass



Charcoal Aluminum



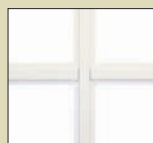
GRID Styles



5/8" flat



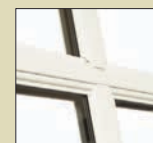
3/4" flat



5/8" contoured

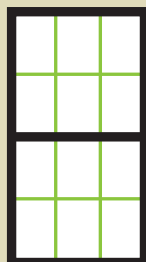


1" contoured

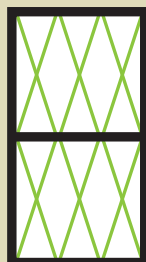


1-1/8" Simulated Divided Lite (SDL)

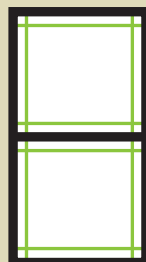
GRID Patterns



Colonial



Diamond



Prairie (8 Point)



3 Leg Prairie/Perimeter (4 Point)

Specialty Shapes (shown with optional grid)



Full Round



Half Round



Octagon



Trapezoid



Triangle

Proudly Made in the USA

Scan this QR code to see our manufacturing facility in action.



PROUD SUPPORTER OF ENERGY STAR®

By helping to maintain your home's indoor temperature, your windows help reduce power consumption and contribute to our country's conservation efforts. To help you select the optimum window or door for your home, the Department of Energy outlines specific thermal properties a window or door must have to achieve the Energy Star rating. Atrium Windows and Doors enthusiastically supports the Energy Star program and is committed to helping you select the appropriate glass option for your needs. Please consult your home improvement or new construction professional for specific thermal properties and requirements to ensure your home achieves the maximum energy savings possible.



Low-E Glass

Low-E glass is coated with a microscopic layer of silver that reflects radiant solar energy while permitting visible light to pass through the glass, providing more comfort and lower energy costs.



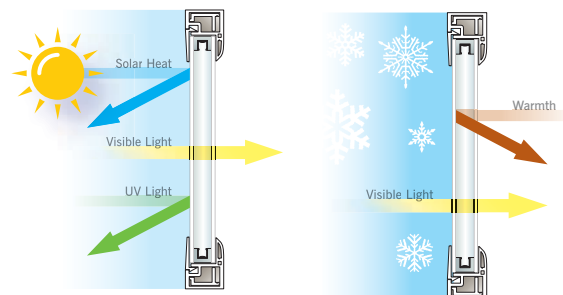
Low-E Glass + Argon Gas

Argon gas works like an insulating blanket between two panes of glass to further improve thermal efficiency and decrease outside sound levels.



Ultra Low-E Glass + Argon Gas

Choose our ultimate glass package for optimal energy efficiency and maximum cost savings. Ultra Low-E glass offers three invisible layers of silver coating in addition to the superior thermal performance of argon gas. (May be required for Energy Star rating.)



+ Low-E glass reduces heat gain from the sun in the summer, keeping your home cooler.

+ In the winter, Low-E glass lets the warm solar rays in while blocking the heat in your home from getting out.



Products may be ordered to meet Energy Star requirements.

Note: Manufacturer reserves the right to substitute components as necessary for continued product improvement. Energy Star is a registered trademark of the U.S. Department of Energy.

energy efficient

DISTRIBUTED BY:

ATRIUM
WINDOWS AND DOORS



atrium.com






DOORS OF THE 300 SERIES AND ALL NEW CONSTRUCTION WINDOWS

Limited Lifetime Window and Door Warranty


At Atrium we are proud of the quality and workmanship of our windows and patio doors and want you to be satisfied with them. We are pleased to offer you the following Lifetime Limited Warranty on our products for materials and workmanship from the date of installation at no additional cost to you!

Of course, as you would expect, our warranty does not cover normal wear and tear, or damages resulting from misuse, abuse, neglect or improper maintenance, and alterations or damages caused by others.

Unit Components

 Atrium Windows and Doors warrants to the original single-family homeowner that products manufactured by Atrium will be free of defects in parts and workmanship under normal use and service for as long as you own and reside in the home in which the products were installed.

Insulated Glass

 The insulated glass portion of the window is warranted not to "fail" for a period of twenty-five years from the date of purchase. A "failed" unit is one that develops a significant obstruction of vision resulting from a moisture film formation or dust collection between the interior glass surfaces of the unit caused by failure of the hermetic seal. Small marks, scratches and spots which do not exceed company standards or federal government specifications DD-G-451D or ASTM C1036 Standard Specification for Flat Glass, do not make insulated glass units defective.

Coverage During 1st Year

Atrium will repair or replace any defective window components (including stress cracks) or parts at no charge, during the first year after purchase by the original single-family homeowner.

Insulated Glass Coverage After the 1st Year

Should the glass fail after year 10 as a result of defects described above, then Atrium Windows and Doors will charge you a fixed percentage of the company's selling price for insulated glass at that time, according to the following schedule.

Years	Required Payment Percentage
2-10	0%
11-15	50%
16-25	75%

Repair Procedure

This warranty is limited to Atrium, at its option, repairing and/or replacing defective parts (color matching not guaranteed) in lieu of repair or replacement. Atrium, in its sole discretion, reserves the right to refund the amount

paid by the original single-family homeowner for the window product (excluding installation cost).

Product Changes

Atrium reserves the right to discontinue or change any product it manufactures. If the part or component of the product originally installed is not available and Atrium determines to make replacement, Atrium shall have the right to substitute such part or component designated by Atrium to be of equal quality and price.

Commercial Applications

If Atrium products are installed in non-owner multi-family occupied dwellings or used for commercial purposes such as schools, churches, government owned structures, office buildings, etc., then this warranty will be limited to 10 years, and excludes labor.

Limitations

ALL IMPLIED WARRANTIES INCLUDING MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE WILL EXPIRE WITH THE TERM OF THIS LIMITED WARRANTY. ATRIUM EXCLUDES AND WILL NOT PAY FOR INCIDENTAL OR CONSEQUENTIAL DAMAGES AND ITS LIABILITY WILL IN ALL INSTANCES BE LIMITED TO REPAIR OR REPLACEMENT OR REFUND OF ACTUAL PURCHASE PRICE OF THE DEFECTIVE PRODUCT.

Some states do not allow the exclusion or limitation of incidental or consequential damages or limitation of the duration of an implied warranty.

This limited warranty is only applicable in the USA. This limited warranty gives you specific legal rights, and you may also have other rights, which may vary, from state to state.

This limited warranty may not be changed or modified by any representative of the manufacturer or its distributors or dealers.

Condensation, Mold & Mildew

Condensation on the glass surface is a natural result of excess moisture in the house and does not indicate a defective product or faulty installation. Maintaining proper household humidity levels may prevent problems such as mold, mildew and related health risks. In no event shall Atrium be liable for any damages, including special, incidental or consequential damages, resulting from condensation, mold or mildew.

IF YOU BECOME AWARE OF PERSISTENT CONDENSATION ON YOUR WINDOWS, YOU SHOULD TAKE IMMEDIATE REMEDIAL ACTION TO PREVENT WATER, MOLD AND/OR MILDEW DAMAGE TO YOUR PROPERTY AND POTENTIAL HEALTH RISKS.

Vinyl Color

Color change due to normal weathering is excluded from this warranty. Normal weathering is defined as any exposure to ultraviolet (sun) light, weather and atmospheric conditions which will cause any colored or painted surface to fade, darken, chalk or acquire a surface accumulation of dirt or stains. The severity of these conditions depends on air quality, location of your home and other local conditions.

Paint and Laminate Color

Atrium warrants that, for a period of ten (10) years from the date of purchase, the coating (paint and/or laminate) applied to vinyl (PVC) by Atrium will not crack, pit, peel, blister or suffer non-uniform fading discoloration (non-uniform fading discoloration from unequal exposure of surfaces to the sun and elements is not covered by this warranty).

Damage Related Exclusions

- Improper installation, use or maintenance
- Product failure or damage due to improper installation or modifications including: adjustments or corrections due to improper installation
- Failures due to product modifications or window shading devices (e.g., glass tinting, security systems, improper painting or staining, insulated window coverings, etc.)
- Units improperly assembled and/or improperly mulled by others
- Water infiltration other than as a result of a defect in manufacturing, materials or workmanship
- Glass or metal damage caused by others (e.g., brick wash, sanding or improper washing, chemicals or airborne pollutants such as salt or acid rain). Corrosion resistant hardware is available for installations exposed to salt water or acid rain
- Delivery damage by companies other than Atrium
- Accidents or Acts of God
- Normal wear and tear

General Exclusions

- Non-transferable
- Tarnish, corrosion or discoloration of hardware finishes
- Screens are not covered under the warranty
- Caulking is a maintenance responsibility of the homeowner after installation and is not covered under the warranty
- Applicable taxes and freight
- Defects in exterior paint, interior and exterior laminate coverage limited to 10 years

Labor Related Exclusions

- All labor is excluded after the first year of warranty
- Replacement of sash panels, glass or other components
- Removal and disposal of defective product
- Painting or staining of repaired or replaced product, component, trim or other carpentry work that may be required
- Service trips to provide instruction on product use

How to get help...

For further information or to make a claim, please contact the Atrium retailer/dealer who supplied you with the Atrium product. If unavailable or unknown to you, you may contact us at:

Warranty Department
Atrium Windows and Doors
300 Welcome Center Blvd.
Lexington, NC 27295

You may also contact us using the Contact Us section of our web site at www.atrium.com.

All claims must include the following information:

- Description of the product such as the exterior color, unit size or inside visible glass measurements
- A detailed description of the suspected defect and where the product is installed
- Product identification number (PIN), which is a unique eight-digit "warranty I.D." number located in the top portion of each product
- Proof of purchase and date
- Your name, address, telephone number

Replacement products may be provided to the homeowner at no cost, but there could be labor charges for the removal of defective products and for installation of replacement products, if not removed and installed by the homeowner. The manufacturer has no responsibility, liability or obligation for, nor will it pay, any removal or installation costs for the replacement products.

Replacement components or parts will be delivered to the nearest Atrium location. Delivery to the actual installed location is the responsibility of the homeowner.

When warranty coverage is unclear, Atrium may charge an inspection fee of \$100.00 for any on-site inspections. If the inspector determines the Atrium product has a defect covered by this warranty, the inspection fee will be waived.

Warranty Registration

Register warranty on-line at www.atrium.com. Click on Our Story and see warranty registration box at bottom of page.

This warranty applies to:

Windows with the 5700, 130, 150,
160, 450, 460, 750, 755 SERIES
and Doors of the 300 SERIES



300 Welcome Center Blvd.
Lexington, NC 27295
www.atrium.com



SERIES 130 SINGLE HUNG WINDOW

Single hung, slider, picture windows and architectural shapes

- + **Bottom sash tilts in** for easy cleaning from inside
- + **Aluminum half screen** comes standard*
- + **Block & tackle** balance system for easy sash movement
- + **Warm-Edge** spacer system provides energy saving thermal performance
- + **DP-50 rating** (window size tested 53" x 77")
- + **Aluminum reinforcement standard** in lock & meeting rails and sash stiles
- + **Dual Sweep locks** (standard at 27 1/4" and above) help provide a weather-tight seal and added security
- + **Dual weather-stripping** helps block air and water infiltration, keeping harsh elements outside and energy-saving comfort inside
- + **Step sill design** combines water run-off and aesthetic features of a sloped sill with the structural strength and internal drainage system of a pocket sill
- + **Jamb depth: 3"**
- + **Limited lifetime warranty**

CUSTOM Options

- + **Low-E Glass**
- + **Low-E Glass + Argon Gas**
- + **Ultra Low-E Glass + Argon Gas**
- + Non-reflective Low-E Glass and Non-reflective Low-E Glass with Argon Gas
- + 1 1/8" simulated divided lite (SDL) grid
- + 5/8" or 1" contoured, 5/8" or 3/4" flat, 5/8" contoured valance grids
- + Nine painted exterior colors (white interior only)
- + Double strength and obscure glass
- + Charcoal aluminum half screen*
- + Oriel style
- + Window Opening Control Device (WOCD)
- + Factory mulling and factory prepared mulling
- + Commodity sizing available
- + Custom sizes available



Series 130 window shown with Nail Fin Only frame



Step Bevel design creates a beautiful exterior appearance

+ COLOR OPTIONS**



+ FRAME TYPES FOUR OPTIONS:



Scan to experience our website.



ENERGY STAR compliance available in all series. Verify product specifics before ordering.

Note: Manufacturer reserves the right to substitute components as necessary for continued product improvement.

* Screens are not meant to restrain a child from falling through an open window.

** Printing process may affect color shown. Please refer to actual window sample when selecting colors.

*** Grid offering limited to 5/8" contoured or SDL on exterior painted windows. Only use mild, water based household cleaner on painted product and rinse immediately with water. See full cleaning instructions for details.



130 Single Hung Window

Features:

- Step Bevel design creates a beautiful exterior appearance
- Bottom sash tilts in for easy cleaning
- DP Rating R50 (window size tested 53 x 77)
- Block & tackle balance system for easy sash movement
- Warm-Edge spacer system provides energy saving thermal performance
- Aluminum reinforcement standard
- Dual sweep locks
- Dual weather-stripping
- Step sill design
- Fiberglass half screen
- Jamb depth: 3"
- Limited lifetime warranty

Custom Options:

- SELECT FROM FOUR FRAME TYPES: Front Flange Only, Nail Fin Only (No J-Channel), J-Channel (Nail Fin & Front Flange), Box Frame (No Nail Fin & No Front Flange)
- Low-E Glass, Low-E Glass + Argon Gas and Ultra Low-E Glass + Argon Gas
- 5/8" or 3/4" flat, 5/8" or 1" contoured and 1 1/8" simulated divided lite (SDL) grids.
- Colonial, Diamond, Prairie (8 point) and 3 Lg Prairie / Perimeter (4 point) grid patterns.
- Factory mulling and factory prepared mulling
- Charcoal aluminum half screen
- Non-reflective Low-E Glass and Non-reflective Low-E Glass with Argon Gas
- Double strength and obscure glass
- Oriel and cottage styles
- Commodity sizing available for Front Flange Only model
- Nine Exterior Painted Colors (white interior only)
- Bronze Exterior Laminate (white interior only)
- Custom sizes available

Product Performance:

AAMA 101 Results:

Window Size	AAMA Rating (psf)	Air (cfm/ft ²)	Water (psf)
53" x 77"	H-LC50	0.13	7.52

Product Dimensions:

Vinyl Wall Thickness:	0.060"
Typ. Glass Thickness:	0.75"
Jamb Depth:	3"
Mullion Adder:	1.25"
Nail Fin Setback:	1.9375"
Front Flange:	0.625"

Rough Opening:

Window Width + 1/2"
Window Height + 1/2"

Size Restrictions:

	Min:	Max:
Width	18"	53"
Height	25"	96"

(Max. United Inches 144")



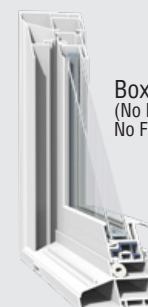
Nail Fin Only
(No J-Channel)



Front
Flange
Only



J-Channel
(Nail Fin &
Front Flange)



Box Frame
(No Nail Fin &
No Front Flange)

130 Single Hung Window

Egress Formulas:

Egress Width $\geq 20"$ and Egress Height $\geq 24"$ and Egress Area $\geq 5.7 \text{ ft}^2$ required to meet egress.

Egress Width Formula = Window Width – 4.75"

Egress Height Formula = (Window Height/2) – 3"

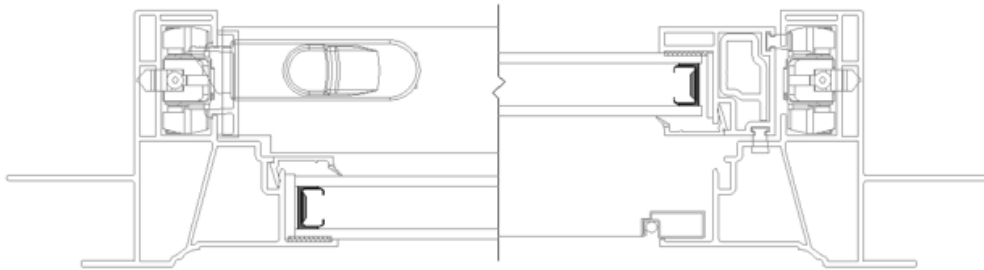
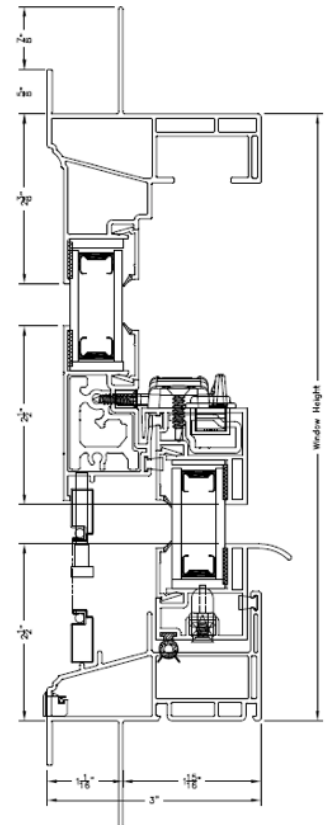
Egress Area Formula = (Egress Width x Egress Height)/144

Half Screen Formulas:

Window Width – 3.6875"

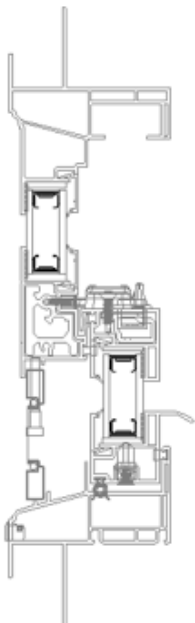
(Window Height/2) – 1.8125"

Series 130
Vertical Diagram

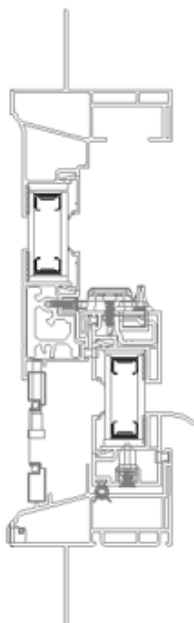


Series 130 Horizontal Diagram

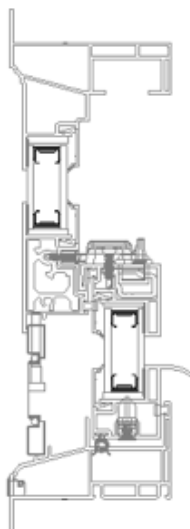
Four Vertical Diagrams



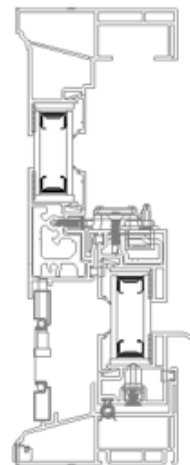
J-Channel
(Nail Fin & Front Flange)



Nail Fin Only
(No J-Channel)



Front Flange Only



Box Frame
(No Nail Fin &
No Front Flange)