

WINDOWS & SLIDING GLASS DOORS

WINFORCE®



WHAT IT TAKES

You put immeasurable trust into your home. Your loved ones, your belongings, and countless memories reside within a structure into which you have invested so much. When weather poses a threat, you need to know that the shelter you have entrusted with that most precious to you will see you through to the other side of the storm.

CAL



TO KEEP THIS

M



WINFORCE®



DOUBLE HUNG



SLIDER



PICTURE



CASEMENT



AWNING



SLIDING GLASS

CALM

BEFORE | DURING | AFTER

THE STORM



It is not plain to see on the surface, when looking from the outside. The strength, the resilience, the flexibility... to help protect your home from some of the weather that the world has watched become more frequent and more severe in recent years. As weather evolves and intensifies, your home must evolve and fortify as well. Get to know WinForce® and all that goes into making your home able to stand up to the tests that nature has to offer.

FOR GOOD.

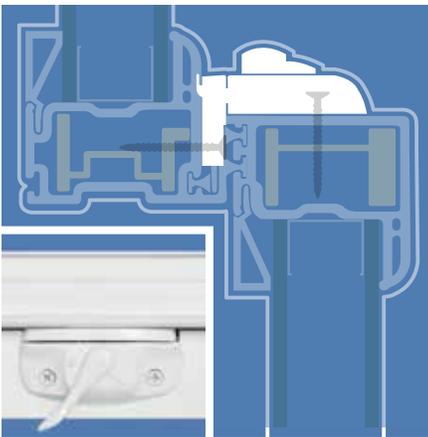
WHAT MAKES WINFORCE A FORCE TO BE RECKONED WITH:

INNER STRENGTH HARDWARE INTEGRATED COMPONENTS REIMAGINED



ALUMINUM REINFORCEMENT

Vinyl construction is reinforced by aluminum extrusion for increased strength.



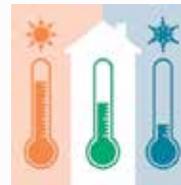
HEAVY-DUTY LOCKS & INTEGRATED KEEPERS

One simple, smooth hand turn; The keeper is routed in for even more strength and security. This heavy-duty cam-action lock is made of die cast zinc. (Double Hung/Slider)



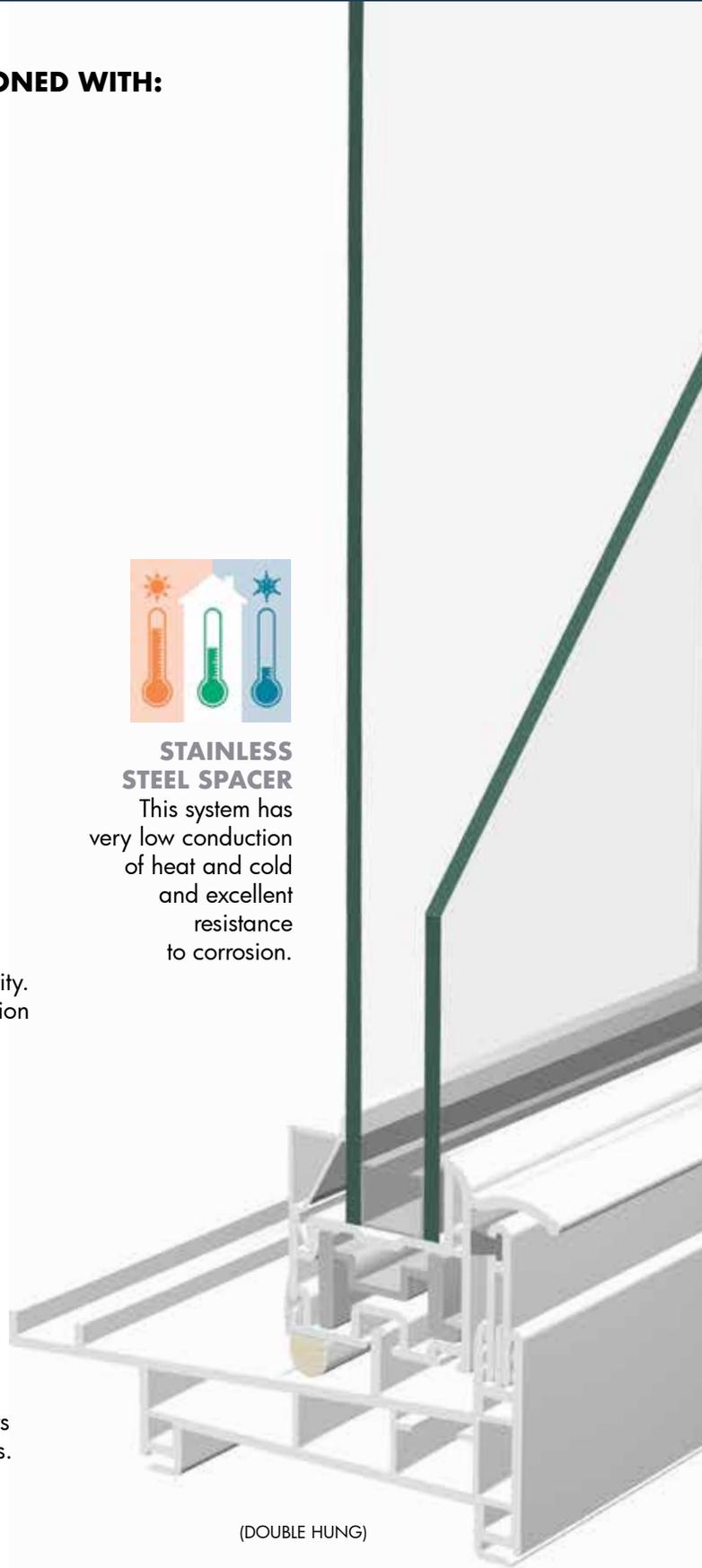
SUBMARINE TILT LATCHES

Sashes tilt in easily for safe, fast cleaning from inside the home. Submarine design allows uninterrupted sash welds. (Double Hung)



STAINLESS STEEL SPACER

This system has very low conduction of heat and cold and excellent resistance to corrosion.



(DOUBLE HUNG)

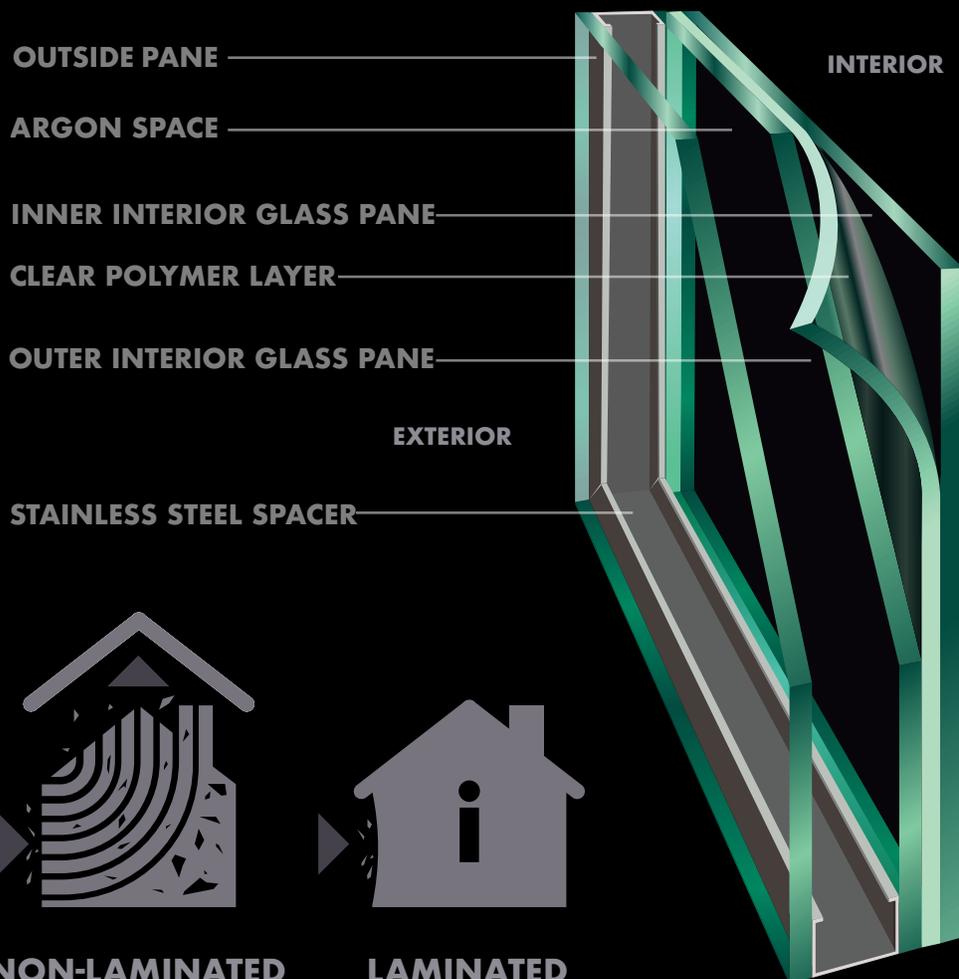
RESIST.

IMPACT RESISTANCE

Impact resistance is the ability to withstand high forces or shocks occurring over a short period of time. These forces and shocks can pose a danger, not just to a home's windows and doors, but to the entire house itself. If severe design pressure shatters a window or door in the home, that same pressure can reach the walls and roof, and threaten the integrity of the entire structure.

LAMINATED GLASS

This argon filled unit's inner wall is a laminated triple layer, comprising a clear flexible polymer sandwiched between two panes of glass. It helps to defend the home by withstanding debris, projectiles, and positive and negative design pressure.

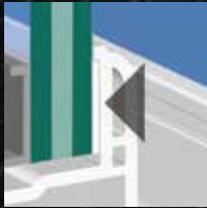


.. PERSIST



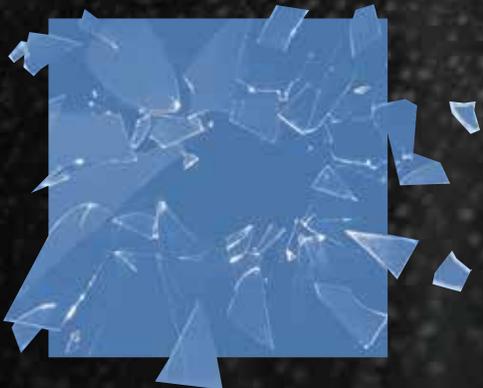
IMPACT TESTING

During impact testing an 8-foot 2x4 is shot out of a computerized cannon at 50 feet per second, the equivalent of 34 mph. The strength of the interlayer in our laminated glass stops the 2x4 from penetrating the glass unit. WinForce® windows meet a structural wind speed rating of 171.2 mph.



STRUCTURAL SEALANT

Following primer application, installed structural sealant provides seal to withstand hurricane-strength design pressure.



ANNEALED



TEMPERED



LAMINATED

DOUBLE HUNG



 TYPE GLASS COLOR GRIDS
DOUBLE HUNG | IMPACT RESISTANCE LAMINATED (OPTION) | WHITE | COLONIAL CONTOUR

SLIDER



 TYPE GLASS COLOR GRIDS
SLIDER | IMPACT RESISTANCE LAMINATED (OPTION) | WHITE | NONE



DOUBLE HUNG

Our WinForce® Double Hung window uses NBP's thickest vinyl construction, which encloses aluminum rod reinforcement, and operation hardware mounted directly into the reinforcements for additional security and strength. Double Hung windows are the most popular window style and feature vertically moving sashes.

HALF SCREEN WITH ALUMINUM FRAME

BetterVue screens are fiberglass mesh and extruded aluminum frame, featuring increased strength and improved visibility compared to standard screens.



DELUXE DUAL-VENTILATION LATCHES

Limit the window opening to a set point during ventilation.



STAINLESS STEEL CONSTANT FORCE BALANCE SYSTEM

Provides smooth and effortless operation.



SUBMARINE TILT LATCHES

Sashes tilt in easily for safe, fast cleaning from inside the home. Submarine design allows uninterrupted sash welds.



EXTRUDED LIFT & PULL RAILS

Extruded directly into sash for greater durability. No added or snap-in components.



HEAVY-DUTY LOCKS & INTEGRATED KEEPERS

One simple, smooth hand turn; this heavy-duty cam-action lock is made of die cast zinc. The keeper is routed in for even more strength and security. Single or double outfitting standard depends on product dimensions.



ALUMINUM REINFORCED INTERLOCKING SASHES

Aluminum reinforced, interlocking sashes provide advanced seal protection where sashes meet.



SLIDER

Our WinForce® Slider window uses NBP's thickest vinyl profile, which encloses aluminum rod reinforcement, and operation hardware mounted directly into the reinforcements for additional security and strength. The sashes glide smoothly from side-to-side on stainless steel rollers, available as a 2-LITE or a 3-LITE.

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EXTRUDED LIFT & PULL RAILS

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FULL SCREEN WITH ALUMINUM FRAME

BetterVue screens are fiberglass mesh and extruded aluminum frame, featuring increased strength and improved visibility compared to standard screens.



CASEMENT



TYPE

GLASS

COLOR

GRIDS

CASEMENT | IMPACT RESISTANCE LAMINATED (OPTION) | WHITE | NONE

AWNING



TYPE

GLASS

COLOR

GRIDS

AWNING | IMPACT RESISTANCE LAMINATED OBSCURE (OPTION) | ALMOND | NONE

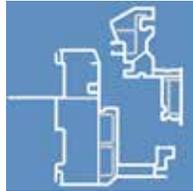
CASEMENT



Our WinForce® Casement window encloses aluminum rod reinforcement, and operation hardware mounted directly into the reinforcements for additional security and strength. The Casement hinges on top and bottom, its side swinging outward to open on stainless steel tracks.

ALUMINUM REINFORCEMENT

Vinyl construction is reinforced by aluminum extrusion for increased strength.



FULL SCREEN WITH ALUMINUM FRAME

BetterVue screens are fiberglass mesh and extruded aluminum frame, featuring increased strength and improved visibility compared to standard screens.



BULB SEAL

Double-barrier protection from water and air infiltration.



HEAVY-DUTY LOCK HANDLE

With one simple and smooth lever-action, our heavy-duty lock keeps your home safe. Made from die cast zinc.



HEAVY-DUTY HANDLE & CRANK

Folding down into the operator when not in use, the handle/crank is perfect when the window is hard to reach.



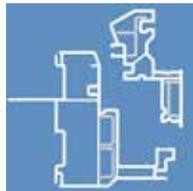
AWNING



Our WinForce® Awnings are hinged and swing outward on stainless steel tracks, housing aluminum rod reinforcement, and operation hardware mounted directly into the reinforcements, for additional security and strength.

ALUMINUM REINFORCEMENT

Vinyl construction is reinforced by aluminum extrusion for increased strength.



FULL SCREEN WITH ALUMINUM FRAME

BetterVue screens are fiberglass mesh and extruded aluminum frame, featuring increased strength and improved visibility compared to standard screens.



BULB SEAL

Double-barrier protection from water and air infiltration.



HEAVY-DUTY LOCK HANDLES

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HEAVY-DUTY HANDLE & CRANK

Folding down into the operator when not in use, the handle/crank is perfect when the window is hard to reach.



PICTURE



TYPE

PICTURE | IMPACT INSULATED LAMINATE (OPTION) |

GLASS

COLOR

WHITE |

GRIDS

NONE

PICTURE

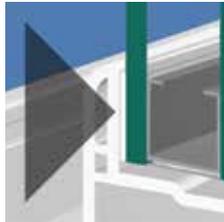


A picture window gets its name because it acts as a picture frame, highlighting your beautiful scenery and providing an attractive view of the outdoors. Our WinForce® Picture window uses NBP's thickest vinyl profile. The stainless steel spacer system has very low conduction of heat and cold and excellent resistance to corrosion.

FEATURES

STRUCTURAL SEALANT

Following primer application, installed structural sealant provides seal to withstand hurricane-strength design pressure.



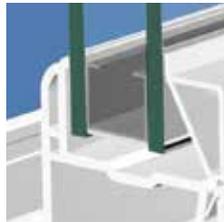
100% VIRGIN VINYL

Aluminum reinforced vinyl is maintenance-free, with reinforced mounting points, for increased structural integrity and exceeds the strength of ordinary designs, and is our thickest extrusion available.

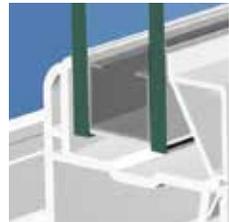


STAINLESS STEEL SPACER

This system has very low conduction of heat and cold and excellent resistance to corrosion.



**PREMIUM
TEMPERED GLASS**
standard throughout this series.



OPEN



HOUSE

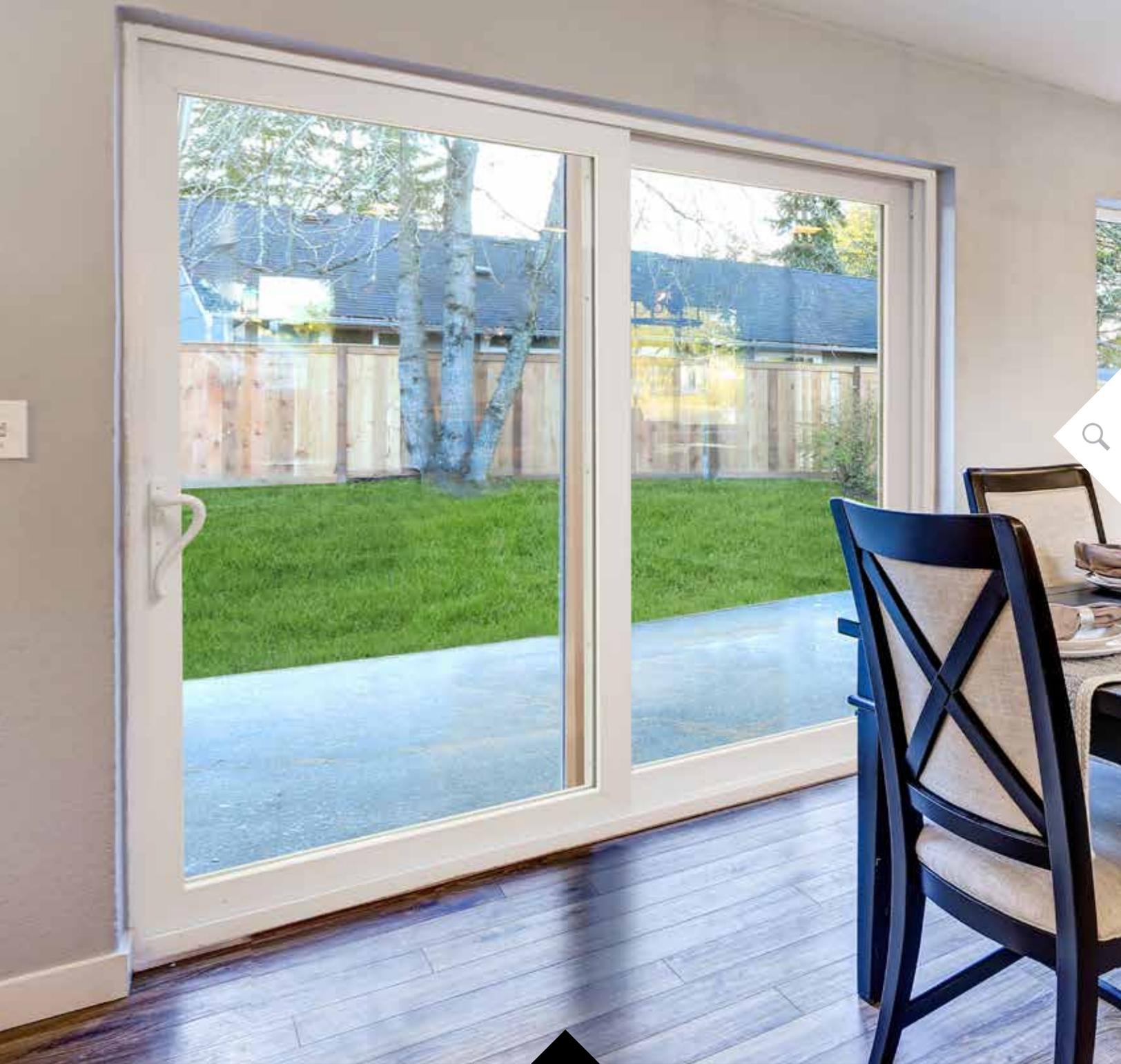
WHEN YOU CHOOSE TO LET THE **OUTSIDE IN**

MULTI-PANEL SLIDING GLASS DOORS within the WinForce® series are made in two different classifications, Impact and Non-Impact. WinForce® is truly to be reckoned with when it comes to safety against dangerously inclement weather... and as always, your general security. Calling upon leading technologies to provide safe haven against hurricanes and other severe weather events... and employing several different possible configurations to choose from to best fit your home's space and needs, your door can transform your room and outside area into a single open space.

(SLIDING GLASS DOOR, **IMPACT RESISTANCE** OPTION)



SLIDING GLASS



TYPE GLASS

XO | IMPACT RESISTANCE LAMINATED (OPTION) | COLOR GRIDS

COLOR GRIDS

WHITE | NONE

SLIDING GLASS



WinForce® MULTI-PANEL SLIDING GLASS DOORS can transform your room and outside area into a single open space. See all possible available configurations on following spread.

COMFORT GRIP HANDLE

Handles and hardware are designed for your comfort and ease of use, with curves and turns that feel just right in your hand.



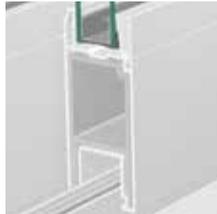
100% VIRGIN VINYL

Aluminum reinforced vinyl is maintenance-free, with reinforced mounting points, for increased structural integrity and exceeds the strength of ordinary designs, and is our thickest extrusion available.



ALUMINUM REINFORCEMENT

Vinyl construction is reinforced by aluminum extrusion for increased strength.



TRIPLE WEATHERSTRIPPING

Our draft-resistant Gold Series double weatherstripping provides UV protection, helps resist mold, mildew, and fungus, and prevents dust, light, noise, and air infiltration.



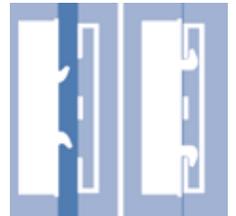
WEEP HOLE DRAIN SYSTEM

Strategically placed openings release precipitation to avoid sitting water.



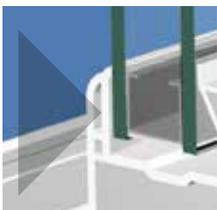
ENGAGING MORTISE LOCK SYSTEM

Solid, safe, and secure locking system engages in two opposite directions.



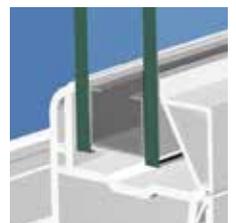
STRUCTURAL SEALANT

Following primer application, installed structural sealant provides seal to withstand hurricane-strength design pressure.



PREMIUM DOUBLE STRENGTH GLASS

Standard throughout this series.



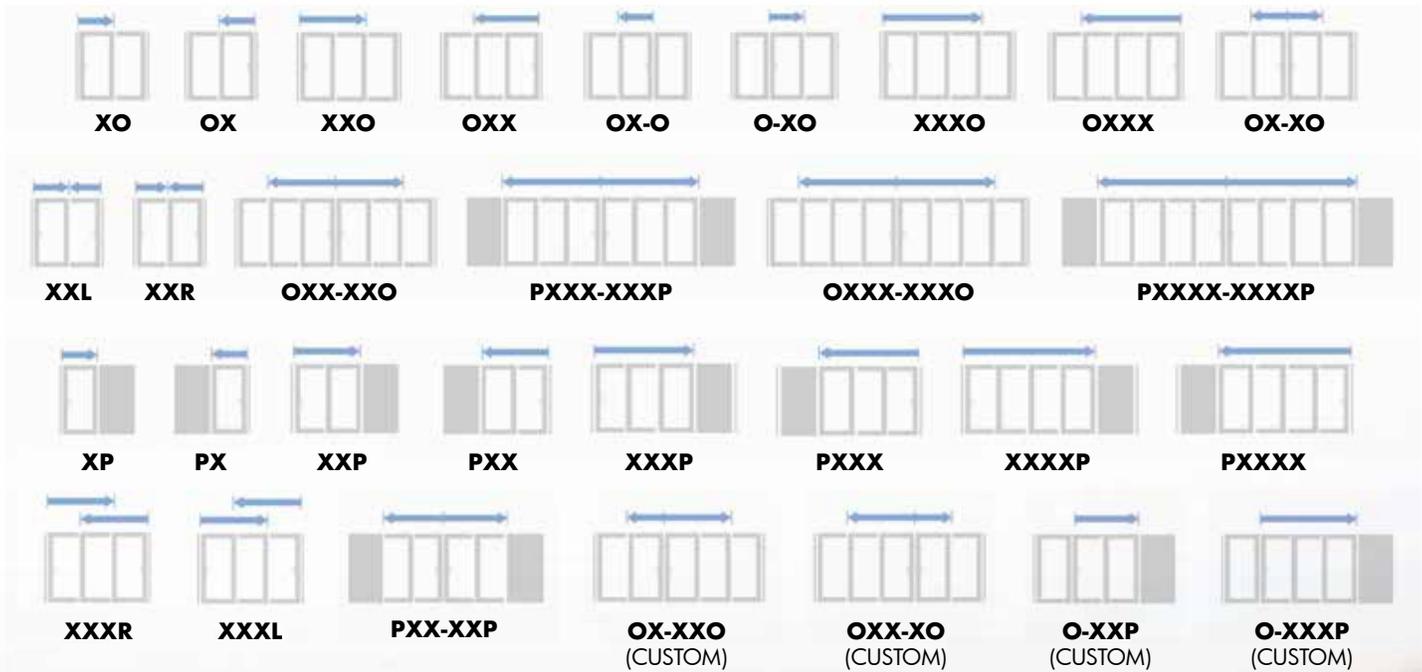
SLIDING GLASS



FRAME EXTENSION
Configuration possibilities increase exponentially with the employment of extruded frame extension on head, sill, and jambs. This allows up to four consecutive roller tracks.



CONFIGURATIONS



PXXXX-XXXXP

OPTIONS

COLOR (STANDARD VINYL) Due to the effects of heat, light, age and the printing process, samples shown here may vary slightly in color or sheen from the actual materials.

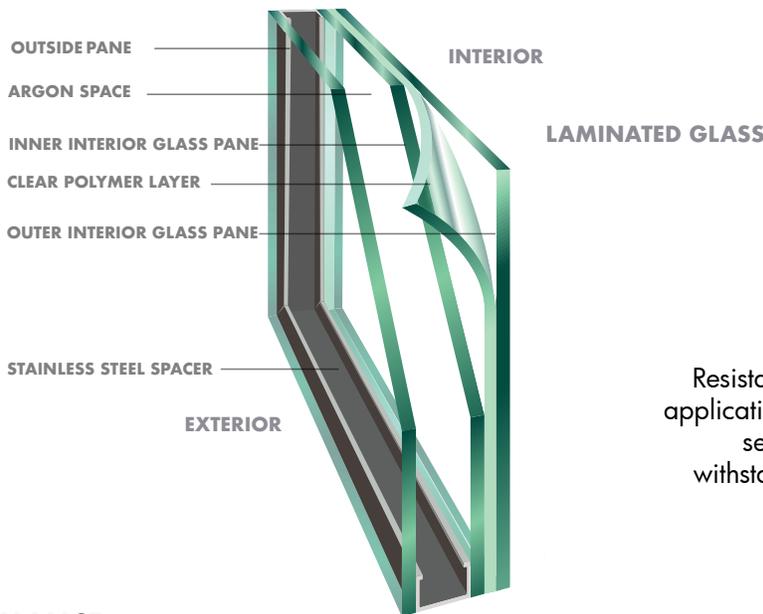


GRIDS CONTOUR (C), WINDOW COLOR | FLAT (F), WHITE/ALMOND/COCOA | ELITE (E), PEWTER OR BRASS



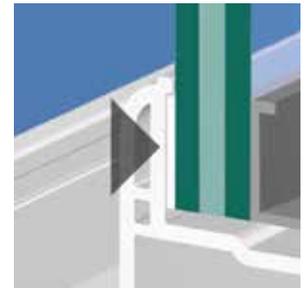
**Not available for WinForce® Sliding Glass Doors or for windows exceeding 90 united inches of glass.*

IMPACT RESISTANCE



STRUCTURAL SEALANT

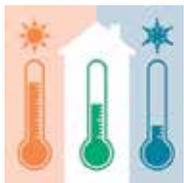
Included with Impact Resistance, following primer application, installed structural sealant provides seal to withstand hurricane-strength design pressure.



PERFORMANCE



Continuous commitment to environmental conservation and energy efficiency are key ingredients in our product offering. We work toward this goal by partnering with Energy Star and offering packages that increase the energy efficiency and performance of all our products. Environmental awareness is at the forefront of our work from design to the innovative creation of manufacturing practices which are aligned with our Core Values. For full NFRC information pertaining to products within this series and specific to your geographic location please visit NBPwindows.com/learn/energy-efficiency



"ENERGY STAR® is the government-backed symbol for energy efficiency, providing simple, credible, and unbiased information that consumers and businesses rely on to make well-informed decisions." energystar.gov

"The National Fenestration Rating Council is a non-profit organization that establishes objective window, door, and skylight energy performance ratings to help you compare products and make informed purchase decisions." nfr.org

LOW-E/ARGON i PACKAGE (impact)

- 1 LAMINATED GLASS
- 2 STRUCTURAL SEALANT
- 3 SOFT-COAT LOW-E PANE
- 4 ARGON GAS

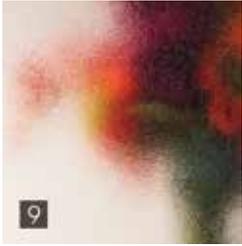
STANDARD i PACKAGE (impact)

- 1 LAMINATED GLASS
- 2 STRUCTURAL SEALANT

LOW-E/ARGON ni PACKAGE (non-impact)

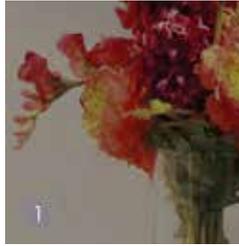
- 1 SOFT-COAT LOW-E PANE
- 2 ARGON GAS

ADDITIONAL



OBSCURE GLASS

For projects in locations where increased privacy is desired, choose our textured obscure glass.



GREY "TURTLE" GLASS

This glass reduces light projection and transmittance of interior light to the outside by over half. This option, in some municipalities (usually coastal), satisfies a legal requirement to help protect turtle populations during their reproductive process.



FLORIDA FLANGE

Decorative trim that finishes stucco installations and provides clean trim lines for increased aesthetic appeal.



INSTA-TRIM

Flexible and bendable decorative trim includes adhesive strip and finishes installations with clean edges.



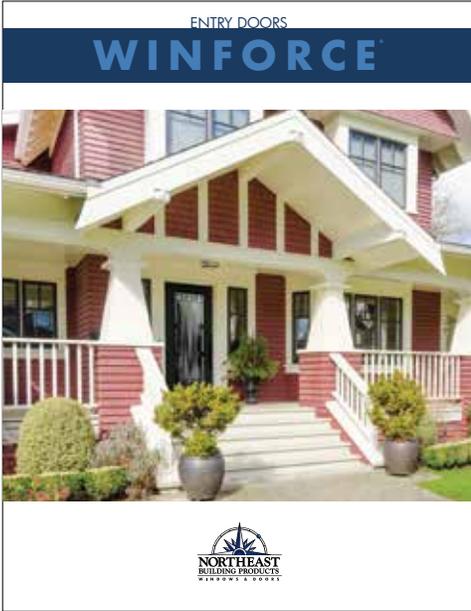
FULL SCREEN

Constant screen performance at any window state, from fully closed to fully open. BetterVue screens are extruded for increased strength... but finer than competing screens, for better visibility.



ORIEL STYLE/COTTAGE CONFIGURATIONS

Oriel style windows feature unequal sash configurations. This allows for a distinctive, customized look that will set your windows apart.



ANTI-STORM FRONT

Be sure to explore all the possibilities to pair your new WinForce® WINDOWS with ENTRY DOORS from the same series. They are made in two different classifications, Impact and Non-Impact. Featuring our Impact versions here, the WinForce® is truly to be reckoned with when it comes to safety against dangerously inclement weather provide safe haven against hurricanes.

IMPACT RESISTANCE



CALM

BEFORE | DURING | AFTER

THE STORM

IMPACT RATED SLAB

REINFORCED RAIL

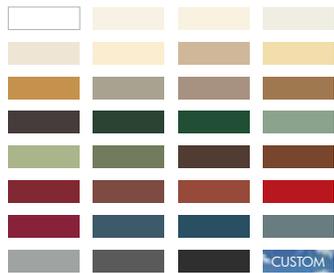
**IMPACT RESISTANT GLASS OPTION,
DECORATIVE | TEXTURED | CLASSIC**

NATURAL WOOD APPEARANCE

**BETTER THAN WOOD AT RESISTING
HUMIDITY, REPELLING INSECTS**

FEATURES MATCHING INTERIOR TRIM

SURFACE



2 Layers of Clear Coat
 Hand-Applied Staining
 UV Solar Reflectant Base Coat
 Textured Fiberglass
 High Density Polyurethane Foam
 Textured Fiberglass
 UV Solar Reflectant Base Coat
 Hand-Applied Staining
 2 Layers of Clear Coat



CONFIGURATION



STYLE

F TEXTURED FIBERGLASS

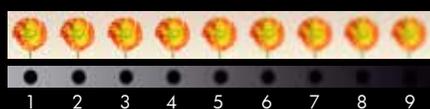


GLASS

CAMING Material bonding decorative glass pieces.



PRIVACY 1 (least) to 9 (most).



DECORATIVE



CLASSIC



TEXTURED

SINCE 1975.



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TOP 100 Manufacturers **WindowDoor**

