JELD-WEN.

WINDOWS AND DOORS BUILT FOR COASTAL ENVIRONMENTS





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SURFACE TO CORE PROTECTION

AuraLast® pine is a patented wood product that provides protection against wood rot, water damage, and termites. This water-based process fortifies wood all the way to the core, providing an exclusive level of protection you'll only find through JELD-WEN.









ONLY JELD-WEN MAKES WINDOW AND DOOR PRODUCTS WITH AURALAST® SOLID PINE.





EASY ON THE ENVIRONMENT

Water-based treatment releases up to 96 percent fewer volatile organic compounds (VOCs) during the manufacturing process than traditional solvent-based methods.



WET WEATHER PROTECTION

Whatever the climate, AuraLast® pine protects against water damage and rot like no other. Whether it's humidity, storms, or dampness, AuraLast® pine stands up to the rigors of wet weather.



TERMITE PROTECTION

Termites can be devastating to windows and doors, but not to those built with AuraLast® pine. It safely and effectively repels termites, preserving the beauty of your investment.



Wood windows, patio doors, door frames and components made with AuraLast® pine are backed with a Limited Lifetime Warranty.*

^{*}For warranty details, visit jeld-wen.com, click Support, and select JELD-WEN Warranties.

SCENIC VIEWS BALANCED WITH SAFETY

A scenic coastal view is a focal point of every beach home. When choosing the right windows and doors for a beach home, considerations for safety are just as important as the view. To help keep you better protected against harsh weather, select JELD-WEN® products with ImpactGard® impact-resistant glass.



WITH IMPACTGARD®



ImpactGard® glass is designed to withstand a nine-pound piece of lumber launched at 34 mph. In most jurisdictions, ImpactGard® satisfies impact protection codes. Check with your local building official.

WITHOUT IMPACTGARD®



In hurricanes and other storms, winds can get inside your home through breaches. If a window is knocked out, the roof can be the next thing to go, getting torn off from the inside out. ImpactGard® glass protects against that.

LESS CHANCE OF GLASS SHARDS



In the event of breakage, most of the broken glass adheres to the protective inner layer or falls to the outside of your home. There is minimal chance of glass shards falling into the structure.

WINDOWS FOR COASTAL ENVIRONMENTS

JELD-WEN offers a variety of windows for coastal environments. With optional ImpactGard® impact-resistant glass, these windows are built for coastal living.



CUSTOM™ WOOD WINDOWS

- Made with AuraLast® pine
- 27 exterior metal-clad colors with commercial-grade finish
- AAMA 2605 finish available
- Twelve interior finishes (painted or stained)
- Custom exterior and interior colors available
- Wood species: Mahogany, Fir, or custom exterior wood
- Concealed jamb liners
- PG35 and PG50 ratings for double-hung, casement, and awning
- Wind zone 3 and wind zone 4 available
- For use inside High-Velocity Hurricane Zones (HVHZ)
- Standard SunResist™ Low-E insulating glass and dirt-resistant glass
- 20-Year Limited Warranty*



SITELINE® COLLECTION

- Made with AuraLast® pine
- 27 exterior metal-clad colors with commercial-grade finish
- AAMA 2605 finish available
- Pine, Alder or Fir species with twelve interior finishes (painted or stained)
- Eight exterior trims
- Concealed jamb liners
- PG35 and PG50 ratings for double-hung, casement, and awning
- Wind zone 3 available
- Standard SunResist™ Low-E insulating glass and dirt-resistant glass
- 20-Year Limited Warranty*

^{*}For warranty details, visit jeld-wen.com, click Support, and select JELD-WEN Warranties.



PREMIUM ATLANTIC™ VINYL & PREMIUM ** VINYL WINDOWS*

- Clean design with minimal maintenance
- Casement, awning, single-hung, double-hung, fixed, radius, and geometric
- Three standard interior and exterior finishes, two interior laminate woodgrains, and multiple exterior color options
- Glass options: Low-E insulated, double- and triple-pane, tinted and textured
- Seven hardware finishes for windows; 10 for patio doors
- Hybrid sill provides improved protection from water infiltration
- Wind zone 2 and wind zone 3 available
- Limited Lifetime Warranty**



PATIO DOORS FOR COASTAL ENVIRONMENTS

JELD-WEN offers beautiful patio doors in configurations from one to six panels. With optional ImpactGard® impact-resistant glass, these patio doors are designed to withstand coastal environments.

WOOD PATIO DOORS

- 27 exterior metal colors which meet or exceed AAMA 2605 standards
- Three optional interior wood species
- 1- or 2-panel configurations
- SunStable™ Low-E insulating glass standard; SunResist™ Low-E insulating glass available for even greater energy efficiency
- Outswing or sliding configurations
- 20-Year Limited Warranty*

PREMIUM™ VINYL MULTI-SLIDE PATIO DOORS

- High-quality vinyl won't chip or peel; never needs painting or staining
- Multiple color options
- SunStable™ Low-E insulating glass standard; SunResist™ Low-E insulating glass available for even greater energy efficiency
- 1-, 2-, 3-, 4-, 5- or 6-panel configurations
- Up to 10' tall
- Wind zone 3 and wind zone 4 available
- For use inside High-Velocity Hurricane Zones (HVHZ)
- Limited Lifetime Warranty*

^{*}For warranty details, visit jeld-wen.com, click Support, and select JELD-WEN Warranties.



IWP® AURORA® FIBERGLASS EXTERIOR & PATIO DOORS

Every IWP® Aurora® door is crafted with advanced technology and hand-applied artisanship and made to order with your specifications. Select Aurora door systems are wind zone 3 certified. See your local dealer for more information.

- Built to withstand climatic conditions
- Grain detail authentically replicates the look of real wood
- Available in up to 10' tall options for wind zone 3 certification*





^{*}The wind zone 3 certification applies to single doors up to 4' wide and 10' tall with a 2-1/4" thickness. The door can be either inswing or outswing. Opaque and glazed designs are available. Hardware is used for illustrative purposes only. Please see your local dealer to choose the correct hardware for your requirements.



MIRATEC® EXTERIOR TRIM

Unlike other materials used for trim, MiraTEC® is specifically designed and engineered to meet the rigors of almost any environment. It offers the durability and performance of a composite product at a value.



- Resists moisture, rot, and termites
- Reversible with a woodgrain texture on one side and a smooth surface on the other
- Available in 5/8", 3/4", 1", and 1-1/4" thicknesses and in widths from 3" to 16" and 2" batten
- MiraTEC® Smooth Select™ (not shown) delivers an ultra-smooth finish and a nearly square edge for a distinctive aesthetic. Available in 3/4" and 1" thicknesses and in widths from 3" to 16" and 2" batten
- Handles like wood; easy to machine, cut, and nail it won't split or crack
- Ready to paint: each board is primed with an ultra-low VOC primer containing a mildewcide
- 50-Year Limited Warranty

Visit miratecextira.com for product-specific warranty information and installation, care, and maintenance instructions.

TESTING & CERTIFICATIONS

PERFORMANCE APPROVED

JELD-WEN® windows and doors are tested to ensure their conformance to specific industry standards. These tests are certified and audited by various independent third parties to ensure that manufacturers are following strict quality control guidelines. To view testing by each product, visit jeld-wen.com.

NFRC® CERTIFICATION

The National Fenestration Rating Council® (NFRC) establishes standards for rating energy efficiency based on the performance of the whole product—not just the glass alone. Many JELD-WEN® windows and doors meet NFRC energy efficiency standards. Tests administered by independent third-party labs determine the ratings a window or door receives in the following areas:

- U-factor: This is the amount of heat flow through a product. The lower the number, the more energy efficient the product.
- Solar heat gain coefficient (SHGC): This indicates a window or door's ability to block heat generated by sunlight. The greater the blockage, the lower the SHGC number.
- Visible transmittance (VT): This is the percentage of visible sunlight that penetrates a window or door. A higher number means more light is entering through the glass.

AAMA®, NFRC®, ENERGY STAR®, CSA®, NAMI®, AND WDMA CERTIFICATION

The certification label informs users that a sample of the product has been verified as conforming to the standards and requirements through independent laboratory testing and follow-up on-site inspection of the manufacturer's production line.

NAFS

The North American Fenestration Standard (NAFS) was developed jointly under the guidance of the Canadian Standards Association (CSA), AAMA, and the Window & Door Manufacturers Association (WDMA).

This standard allows for harmonization of testing standards for windows, doors, and skylights based on AAMA 101, WDMA I.S.2, and CSA A440.

FIRE RATINGS

Fire ratings are available on select door products. There may be restrictions based on size and regional availability. All door slabs must be used with fire-rated door systems for true fire protection. A door system consists of the door slab, frame, hardware, and components. You can find fire rating information at jeld-wen.com.

ACOUSTICS

In the building products industry, there are two main rating systems used to communicate how well products block sound: Sound Transmission Class (STC) and Outdoor/ Indoor Transmission Class (OITC). Acoustic ratings for products are available at jeld-wen.com.

TO LEARN MORE ABOUT THE PROCESSES FOR CERTIFICATION AND THE ORGANIZATIONS THAT AWARD THEM, VISIT THESE SITES:

AAMA®: aamanet.org CSA®: csagroup.org

ENERGY STAR®: energystar.gov NAMI®: namicertification.com

NFRC®: nfrc.org WDMA: wdma.com













HURRICANE AREA REQUIREMENTS

RESPONDING TO HAZARDOUS CONDITIONS

Hurricanes are a threat to coastal areas, often causing loss of life and billions of dollars in property damage. In an effort to curtail damage caused by hurricanes, building code certification requirements were created for windows and doors installed in coastal areas prone to hurricanes and strong winds.

These requirements are designed to help homes withstand extreme weather. In fact, windows and doors are crucial to maintaining a home's structural integrity.

WINDBORNE DEBRIS REGIONS

Areas subject to hurricanes where wind speeds exceed 130 mph are considered windborne debris regions. These are categorized into four different wind zones. The zone you live in determines the design rating your home's windows and doors must meet to comply with building codes.

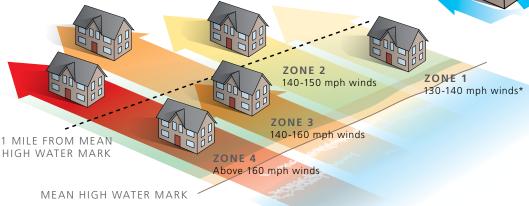
STRUCTURE BREACHED

When strong winds enter a home through a broken window or door, the increased pressure can lift the roof and push walls outward.[†]



STRUCTURE PROTECTED





*Winds are basic design wind speeds. For determination of required design ratings of windows and doors, these wind speeds need to be converted to allowable stress design wind speeds. Please see International Building Code Section 1609.3.1 or check local codes for variable requirements.

WINDBORNE DEBRIS**	
ZONE 1	Areas within 1 mile of the mean high water mark with winds 130 mph and up to 140 mph
ZONE 2	Areas more than 1 mile from the mean high water mark with winds 140 mph and up to 150 mph
ZONE 3	Areas with winds 150 mph and up to 160 mph; or 140 mph and up to 160 mph within 1 mile of the mean high water mark
ZONE 4	All areas with winds in excess of 160 mph (high-velocity wind zones)

^{**}As defined by ASTM E1996 and ASCE-7-05

†SOURCE: Federal Emergency Management Agency

PERFORMANCE RATINGS

Building codes require windows and doors be designed to meet design wind loads for the area where they are being used in construction. Products are tested and labeled with performance grade (PG) ratings showing compliance with the codes. PG ratings are based on the window's air infiltration resistance, water penetration resistance, uniform load deflection ability, forced entry resistance, and operating force (operable windows only).

HURRICANE AREA REQUIREMENTS

JELD-WEN® products are designed to meet the code requirements for opening protection by using impact-resistant glazing.

In Florida, the building code requires that structures built in the High-Velocity Hurricane Zones (HVHZ), defined as Broward and Miami-Dade counties, are tested and certified to meet the design wind loads using Test Application Standard (TAS) 202. In addition, products that carry impact-resistant certification must be tested to TAS 201 and 203.

Outside of the HVHZ, products are tested to either NAFS for a PG rating or the ASTM E330 for a structural load rating only. For impact-resistant products outside the HVHZ, ratings are determined through testing to ASTM E1996. Florida also allows testing outside the HVHZ to TAS 201, 202, and 203.

Different testing requirements must be met in each of the four windborne debris regions. Many JELD-WEN® windows and doors have passed these necessary tests; for the most current listing of certified products, please visit jeld-wen.com.



FNFRGY FFFICIENCY & PROTECTION

LOW-E INSULATING GLASS

Low-E Insulating glass comes standard and helps lower energy costs. This high-performance glass keeps homes cooler in the summer and warmer in the winter. It also protects against fading of interior furnishings, reduces condensation, and delivers greater visible light transmittance than tinted glass.

Some JELD-WEN® windows and patio doors with Low-E insulating glass are ENERGY STAR® certified. ENERGY STAR® products can help save energy and money while also reducing carbon footprints. ENERGY STAR® criteria for windows are based on the U-factor and solar heat gain coefficient (SHGC) combinations.

For more energy-efficient windows, request those that are ENERGY STAR® certified for your climate zone. Learn more at jeld-wen.com.

In cold weather, Low-E insulating glass reduces the amount of heat lost by reflecting it back inside.



In warm weather, Low-E insulating glass reflects the sun's energy and prevents it from entering the home.

ENERGY STAR®

ENERGY STAR® is a voluntary program created by the EPA that helps businesses and individuals reduce energy consumption, which may help to save money and protect the environment. JELD-WEN has participated in ENERGY STAR® since 1998, when the windows category was first created. For more information on energy savings, visit the ENERGY STAR® website.

APPROPRIATE PROTECTION FOR EXTERIOR DOORS

To adequately protect your door and extend its life, several factors must be considered. Door type, climate, exposure, color choice, and the use of a storm door can affect the durability of a door.

Every door type weathers differently. Wood doors, for example, are more susceptible to the elements than steel or fiberglass.

An overhang, as shown, is required for wood doors and recommended for steel and fiberglass doors. Overhangs protect the door's finish, minimize the need for refinishing, and help keep the weather out of the home.

Learn more about how materials, overhang protection, and other factors impact the long-term performance of the door at jeld-wen.com.



FEATURES FOR COASTAL HOMES

ENGINEERED TO PERFORM

JELD-WEN offers a wide variety of products that help to withstand specific coastal challenges. Since weather conditions and code requirements vary by region, please check with your local dealer to ensure the product meets your area's requirements.

COMMERCIAL-GRADE CLADDING

We offer many commercial-grade cladding color finishes for our Custom™ Wood windows and patio doors as well as the Siteline® product line. Our commercial-grade 70 percent PVDF finish meets or exceeds the AAMA 2605 paint standard.





