



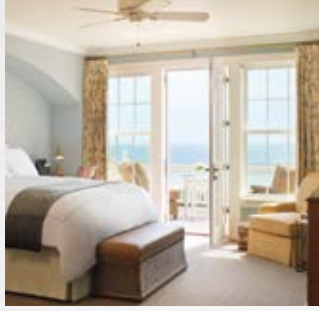
# Coastal Capabilities



# We're for the visionaries.®

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**We're for people who take building to new levels.**



© Warren Jagger Photography

We're for people who are passionate about design, who care about the big picture and the smallest detail. We're for people who aren't satisfied with mainstream choices... who push the limits of what's possible with the options and innovations that can only be found in Kolbe windows and doors.



© Warren Jagger Photography

**We're for quality craftsmanship.**

We're for a tradition of excellence that outlasts the latest design trend. The Kolbe story began with a family and a vision. Eighty years after the Kolbe brothers began their commitment to producing premium quality windows and doors, products bearing their family name can be found in some of North America's most impressive homes and businesses.

**We're for expertise.**

We're for people who dream of a personalized design experience. That's why you can't find Kolbe windows and doors in the aisles of a home center. Our products are only available through a Kolbe dealer, because they are as passionate about windows and doors as you are about bringing your vision to life. And they will work with you to make your dream a concrete reality.



© Steve Passmore | Provo Pictures



© Fyfe Photography

**We're for possibilities.**

We're for people who won't settle for "standard." We're for limitless options and custom solutions that can only be found in Kolbe's made-to-order products. Our team members are craftspeople who focus on building one window or door at a time, to create distinctive products that fulfill your unique vision.

**We're for innovation.**

We're for people who want to take building to new levels, with advancements in not only extraordinary sizes and shapes, but also ground-breaking products. We're for creative thinking that redefines what's possible, constantly reimagining our windows and doors to elevate style, performance and functionality.



© Keen Eye Marketing

**Let us bring your vision to life.**



© Nat Rea Photography

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© Anthony Crisafulli Photography



**For 80 years, Kolbe has been known for innovative products** that push the boundaries and defy the limits of function, performance and style. Exceptional design, quality craftsmanship, endless options and custom solutions allow Kolbe to personalize your design experience with distinctive windows and doors. With multiple product lines designed to meet specific architectural and aesthetic goals, each offers distinct advantages, while remaining vastly customizable.

© Phillip Ennis

## Coastal Capabilities

Designed with the strength & durability to meet the codes & conditions of the coastal regions.

Kolbe offers four unique product lines, each of which offers distinct advantages, while remaining vastly customizable. Careful design, quality craftsmanship, many aesthetic choices, and innovative solutions help Kolbe windows and doors manifest your vision while achieving enhanced performance from coast to coast.

### **Kolbe's impact-certified product lines include:**

VistaLuxe® Collection | Ultra Series | Heritage Series | Forgent® Series

### **Kolbe's impact-certified products provide:**

- Enhanced performance & energy efficiency
- Zone 3, Zone 4 and/or HVHZ protection
- Increased security & peace of mind
- Reduced heating & cooling costs
- Beautiful appearance without additional support
- Stable, air & watertight environments
- Quieter, more comfortable interior spaces



© Nat Rea Photography

## Impact Performance

Specially designed with the strength and durability to withstand hurricane force winds and flying debris, Kolbe's impact performance products are independently tested for coastal regions. There are no unsightly rods or extra locks to fasten, so Kolbe's impact-certified products offer the same beautiful appearance as non-impact products.

See [kolbewindows.com/solutions/impact-resistance](http://kolbewindows.com/solutions/impact-resistance) for impact performance ratings



## Energy Efficiency

Kolbe offers numerous products that meet or exceed ENERGY STAR® performance criteria in the United States and Canada. With glass options suited to any climate, our windows and doors can provide the level of performance needed – from coast to coast.

Many of Kolbe's products can also meet California's Title 24 Building Energy Efficiency Standards, as well as Passive House Institute US (PHIUS) verification.

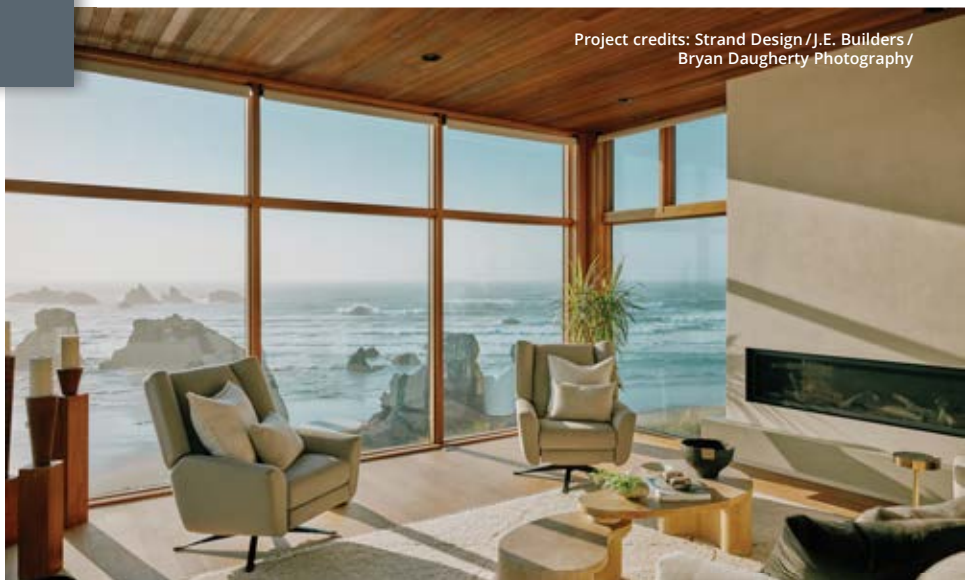
See [kolbewindows.com/solutions/energy-efficiency](http://kolbewindows.com/solutions/energy-efficiency) for energy performance data and climate zone maps



© Zack Benson

## Wellness

Because windows and doors are instrumental in creating and maintaining a sense of well-being and ideal living conditions, Kolbe offers holistic solutions for adding visual comfort to interior environments. Large expanses of glass with narrow frames maximize daylighting for well-illuminated spaces with views of the outdoors and exposure to natural light. The connection between our indoor space and the world outside helps enhance concentration, mood and energy.



Project credits: Strand Design / J.E. Builders / Bryan Daugherty Photography

## VistaLuxe® WD LINE

The VistaLuxe WD LINE was designed to combine multiple units to create walls of glass in unique configurations. The extruded aluminum exterior provides low-maintenance durability, while the wood interior proves that minimalist design can feel warm and organic.





Project credits: Strand Design / J.E. Builders / Bryan Daugherty Photography

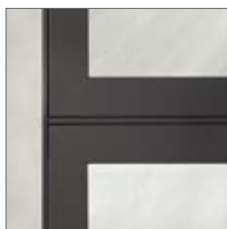
### The VistaLuxe® WD LINE offers:

- Industry-leading frame-to-daylight-opening ratio for an increased viewing area
- Extruded aluminum exterior with 50+ standard colors & finishes, as well as custom hues
- Warm wood interior in familiar to exotic species, with 20+ standard pre-finishes, plus custom colors
- Consistent profiles with square interiors & exteriors
- The look of steel, used as an alternative to or in conjunction with steel products
- Precise horizontal & vertical alignment on mullioned windows with glass in the same pane
- Numerous hardware styles & finishes

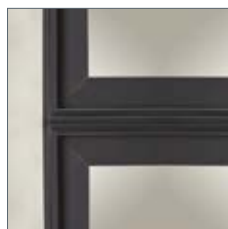
### Windows

- Crank-out casements
- Crank-out awnings
- Casement direct set picture units
- Direct sets

### Profiles



**Flush**  
The sash is level with the frame.



**Accent**  
The sash is recessed from the frame.

### Doors

- Outswing single & French (2-1/4" thick with 5" top rail & stiles; 10" bottom rail)
- Complementary sliding (1-3/4" or 2-1/4" thick with 5" top rail & stiles; 10" bottom rail)
- Complementary folding (1-3/4" or 2-1/4" thick with 5" top rail & stiles; 10" bottom rail)
- Stationary sidelites

NOTE: Limitations apply. Ask your Kolbe dealer for more information.

Learn more  
about the  
VistaLuxe  
WD LINE.



[kolbewindows.com/product-lines/vistaluxe-wd-line](http://kolbewindows.com/product-lines/vistaluxe-wd-line)

## VistaLuxe® AL LINE

Kolbe's VistaLuxe AL LINE offers a full selection of thermally broken, all-aluminum windows and doors that emphasize clean lines, coordinated profiles, additional configurations, and stylish functionality. Fabricated using Reynaers Aluminium, these profiles are designed in Europe and crafted in North America, ensuring a perfect blend of elegance and precision.





© Jeeheon Cho

### The VistaLuxe® AL LINE offers:

- All-aluminum interiors & exteriors with 4 powder-coated + 3 anodized finishes
- Thermally-broken products to enhance energy performance to meet local climate demands
- Coordinated profiles with square interiors & exteriors for a sleek, strong design aesthetic
- Larger expanses of glass in varied configurations for floor-to-ceiling views
- Streamlined, unobtrusive hardware with European styling that lets the view stand out
- Lift & slide doors (CP155) with low impact sill

### Windows

- Push-out casements (CS77)
- Inswing casements (CS77)
- Direct sets - includes geometrics (CS77)
- Tilt-turns (CS77)
- Turn-tilts (CS77)

### Doors

- Multi-slide (SP68) 2- & 3-panel
- Lift & slide (CP155, MP) 2-, 3-, 4- & 6-panel



Kolbe's VistaLuxe® AL LINE of windows and doors is manufactured using **Reynaers Aluminium extrusions and system profiles.**

Learn more about the VistaLuxe AL LINE.



NOTE: Limitations apply. Ask your Kolbe dealer for more information.

[kolbewindows.com/product-lines/vistaluxe-al-line](https://kolbewindows.com/product-lines/vistaluxe-al-line)

## Ultra Series

The Ultra Series offers an array of options, and can mimic the traditional style of wood windows and doors with a warm wood interior and exterior trim details. The extruded aluminum exterior is strong and durable, with a palette of long-lasting, vibrant colors that stand up to coastal conditions.





### The Ultra Series offers:

- Extruded aluminum exterior in 50+ standard colors & finishes, plus custom hues
- Warm wood interior in familiar to exotic species, with 20+ standard pre-finishes, plus custom finishes
- Versatile styling, from traditional to modern architectural details
- Enhanced energy efficiency & impact performance options to meet climate demands
- Divided lite profiles & patterns
- Exterior brickmould & casing
- Low-E, performance & specialty glass
- Hardware options & finishes to match any décor

### Windows

- Crank-out casements & stationary units (includes radius tops & rectangular mulled units)
- Crank-out XL casements & picture units
- Push-out casements (includes radius tops)
- Crank-out awnings (includes mulled units)
- Sterling double hungs & studio units
- XL Sterling double hungs
- Direct sets (includes beveled & ogee)

### Doors

- Inswing single & French (1-3/4" or 2-1/4" thick)
- Outswing single & French (1-3/4" or 2-1/4" thick, includes radius tops & rectangular mulled units)
- Sidelites (stationary doors) to match inswing or outswing
- TerraSpan® lift & slide (limited pocketing configurations)
- Sliding 2-panel (1-3/4" or 2-1/4" thick); 4-panel (2-1/4" thick bi-parting)
- Folding (limited configurations)

Learn more  
about the  
Ultra Series.



NOTE: Limitations apply. Ask your Kolbe dealer for more information.

[kolbewindows.com/product-lines/ultra-series](https://kolbewindows.com/product-lines/ultra-series)

## Heritage Series

Carefully crafted with a wood interior and exterior, Heritage Series windows and doors make it possible to create architecturally intricate and historically accurate details. Ideal for residential or commercial restoration or replication projects, Kolbe's all-wood products blend traditional design aesthetics with modern functionality and performance.





© Caribbean 3D Design Photography & Drone Ltd.

### The Heritage Series offers:

- Wood exterior in unfinished, primed, or high performance K-Kron II finish in 40+ standard colors + custom
- Wood interior in familiar to exotic species, with 20+ standard pre-finishes, plus custom finishes
- Divided lite profiles & patterns, including true divided lites
- Exterior wood brickmoulds, casings & sill nosings in various widths & styles
- Glazing options for enhanced energy efficiency, decorative & specialty glass needs
- Hardware options & finishes to match any décor

### Windows

- Crank-out awning profile picture units
- Crank-out casement profile picture units
- Push-out casements
- Double hung studio units
- Sterling double hungs & transoms

### Doors

- Inswing single & French (1-3/4" or 2-1/4" thick)
- Outswing single & French (1-3/4" or 2-1/4" thick)
- Transoms to match inswing
- Stationary panels, sidelites & transoms to match outswing

NOTE: Limitations apply. Ask your Kolbe dealer for more information. Traditional or enhanced glazing options are available.

Learn more  
about the  
Heritage  
Series.



[kolbewindows.com/product-lines/heritage-series](https://kolbewindows.com/product-lines/heritage-series)

## Forgent® Series

Kolbe's Forgent Series windows and doors feature a proprietary Glastra® material and thoughtful design, making them simple, convenient and easy to install. This high-performance product line is a perfect choice for new construction or replacement, with impact performance options for enhanced window and door strength without any aesthetic modifications to the product.





© Jeff Westcott Photography

## The Forgent Series offers:

- Innovative Glastra® material for low maintenance & durability
- Strong & resilient Glastra exterior with Glastra or wood interior
- Advanced ladder design with multiple chambers for high performance & strength
- Welded sash & frame with AccuForge® technology for a smooth, air & watertight seam
- Energy efficiency & impact performance options to meet local climate demands
- Ability to meet or exceed ENERGY STAR® requirements in the U.S.
- Three convenient certified installation methods: integral nailing fin, installation clips, & screw through frame
- Hardware options & popular finishes

## Windows

- Crank-out casements & casement picture units
- Crank-out awnings
- Double hungs & sash set studio units
- Sliding (includes single & triple configurations)
- Direct sets to match casements, awnings & double hungs (includes radius & geometric)
- Impact mullions, combination mulls & vertical mulls (infinite mulls)



Glastra Exterior  
with Glastra Interior



Glastra Exterior  
with Wood Interior

NOTE: All Forgent Series impact certifications apply to both All Glastra and Glastra/Wood products.

## Complementary Doors

Select doors available from Kolbe to complement Forgent Series products

- Sliding (2-, 3- & 4-panel)
- Multi-slide (3-panel)

NOTE: Limitations apply. Ask your Kolbe dealer for more information.

Learn more  
about the  
Forgent  
Series.



[kolbewindows.com/product-lines/forgent-series](https://kolbewindows.com/product-lines/forgent-series)

## Style & Design Options

Make your coastal project truly unique with our endless variety of options. Choose wood species, divided lite patterns, sizes, shapes, interior and exterior finishes, hardware, glass, and more – or create an even more personalized design with our custom solutions.



View style & design options for all product lines



# Exterior Brickmoulds & Casings

Available for Ultra Series & Heritage Series



Accentuate the beauty of your Ultra Series and Heritage Series windows and doors with Kolbe's exterior brickmoulds and casings. In addition to the casings shown below, various sill nosings can be applied to enhance the overall appearance and to create the perfect look. Custom brickmoulds and casings are available as well; talk to your local Kolbe dealer for more information.

## Ultra Series



1-15/16" profiled brickmould



3-1/2" profiled brickmould



2" flat casing



3-1/2" flat casing



3-1/2" flat casing with backband



Bull nose casing



Historic casing



Stucco casing

## Heritage Series



1-15/16" profiled brickmould



3-1/2" profiled brickmould



1-15/16" flat casing



3-1/2" flat casing



5-1/2" flat casing



2" beaded casing



3-1/2" beaded casing



Prospect casing

# Glass



© Dolf Vermeulen

## Low-E Coatings

Kolbe offers glazing options to provide optimum energy efficiency for the geographic region in which you live. Low-E is a “smart” coating that reduces energy transfer through the insulating glass unit, resulting in reduced heating and cooling costs throughout the year. Low-E coatings also reduce the potential for condensation, as well as provide protection against fading of furniture, fabrics and carpeting.

### Solar Gain Low-E

When the weather turns frigid, Solar Gain Low-E glass is the perfect cold remedy. It keeps homes warmer and more comfortable by blocking heat loss to the outside and letting the sun’s heat stream in to increase solar heat gain.

### Solar Low-E (Kolbe’s standard)

Suitable for most climates and meets most energy zone requirements. Solar Low-E glass is designed to reflect room-side heat back into the room during winter months. In summer, visible sunlight is allowed in while blocking most of the sun’s infrared heat energy.

### Solar Control Low-E

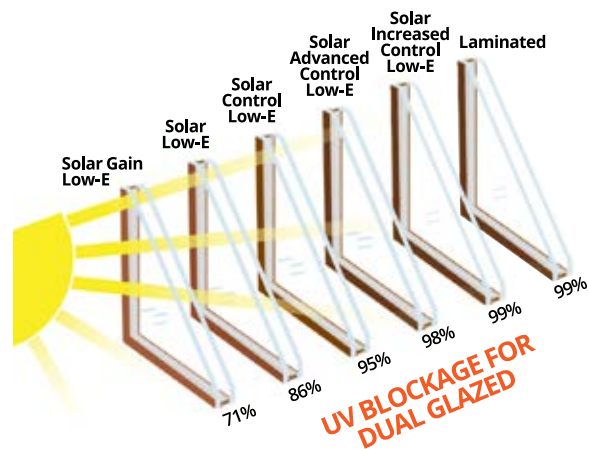
Offers an ideal balance of solar control and high visibility by blocking 95% of UV rays while maintaining the interior temperature.

### Solar Advanced Control Low-E

A tinted glass recommended for warm climates that achieves greater solar control over a wide range of the spectrum, while also helping to reduce glare.

### Solar Increased Control Low-E

Provides a four-layer silver coating with 52% visible light transmission while offering 99% UV protection. This glass is generally used in warm climates and is formulated to manage solar heat gain while maintaining clearer views.



NOTE: Tested units include argon. The laminate has 1/4" inner pane. Based on Lawrence Berkeley Lab (LBL) Window 5.2 © 2003 analysis for classical UV transmission data.

### ThermaPlus™ Low-E

An additional Low-E coating which helps to meet the strictest energy requirements by providing protection against heat loss and UV damage. Available with dual pane versions of Solar Low-E, Solar Control Low-E, Solar Advanced Control Low-E and Solar Increased Control Low-E glass.

Not all glass is available for all products.  
Not all glass options listed have the same glass warranty. See your Kolbe dealer for details.  
Low-E insulating glass with a stainless steel spacer bar carries a 20-year warranty.

## Specialty Glass + Additional Options

Kolbe also offers additional glass options for uniquely decorative windows and doors, including custom solutions and special surface treatments. Contact your Kolbe dealer to request samples and select the best solution for your project.

### Tinted, Colored or Patterned

Provides shading, privacy or visual interest.

### Finely Crafted

Includes stained, leaded, beveled glass, and more.

### Turtle Glass

Many counties and cities along coastlines have adopted sea turtle lighting ordinances that restrict the amount of light permitted through windows and doors. The artificial lighting of coastal construction is known to confuse the hatchlings who are guided to the water by the light of the moon. Turtle glass achieves turtle code lighting ordinance enforcement while meeting all other National Fenestration Rating Council (NFRC) thermal performance standards.\*

Please check your local building code ordinances for specific values.

### Bird-Safe Glass

Has a pattern or design on the exterior surface of the glass so birds can see the solid barrier. The patterns can range in visibility to humans so the view is not obstructed. Contact your local dealer to request samples and select the best solution for your project.

### Preserve® Film

When applied to glass surfaces, this film helps protect against scratches during transit and construction. Also helps reduce the time involved in job site clean-up.

### Neat+™

Harnesses the sun's UV rays to break down greenhouse gases, other pollutants, and loosens dirt so water can rinse it away, leaving windows cleaner, longer. A special sputter-coating process makes the glass ultra smooth, so the water "sheets off" more readily than it would on uncoated glass, allowing you to spend less time cleaning.

## Performance Options

Kolbe offers windows and doors that are designed to stand up to harsh climates and extreme weather conditions, with various glass options that address building codes and hurricane resistance.

### Triple Pane

Provides a greater energy performing window that keeps indoor air warm and comfortable, prevents heat loss, and can lower your heating bills. It is constructed with three panes of glass, thermal spacer bars, and is available in Solar Gain Low-E, Solar Low-E, Solar Control Low-E and Solar Advanced Control Low-E glass.

### Laminated

Kolbe's impact products use laminated glass that is designed to stay intact if the glass is broken. Each impact product utilizes glass with different interlayer levels that are unit performance specific so that each window or door will perform at the highest level possible. Impact glass meets or exceeds industry standards when it comes to laminated glass. Not only does it provide a greater level of safety and security from flying debris or intruders, but better sound transmittance levels as well.

### Glazing System

Impact products are uniquely designed with a specialized glazing retention system. This glazing system ensures that the unit will hold the glass securely in place. Many windows and doors are available as either single pane or double pane units. If double pane insulating glass is chosen, the Low-E coating will help improve energy efficiency by reducing solar heat gain.

### Impact\*\*

Glazing utilized to withstand harsh environmental conditions, especially in coastal regions. Combined with an impact-rated product, this glazing offers the highest level of security.

### Tempered

Tempered glass is a safety-enhanced, heat-treated glass that's stronger than standard glass and breaks into small, blunt pieces for added protection. It's a standard feature in our Kolbe door offering, ensuring durability, thermal resistance, and peace of mind in every application.

#### NOTES:

Not all glass is available on all products. Not all glass options listed have the same glass warranty. Please contact your Kolbe dealer for product specifics.

\* Visible Transmittance at or below .45.

\*\* Not all products are available with impact performance capabilities. Please ask your dealer for more information.

All Forgent Series impact-rated products are glazed with structural silicone.

Preserve® and Neat+™ are trademarks of Cardinal IG.

# Finish Options

Available for VistaLuxe® WD LINE, Ultra Series & Heritage Series



## Interior Wood Species

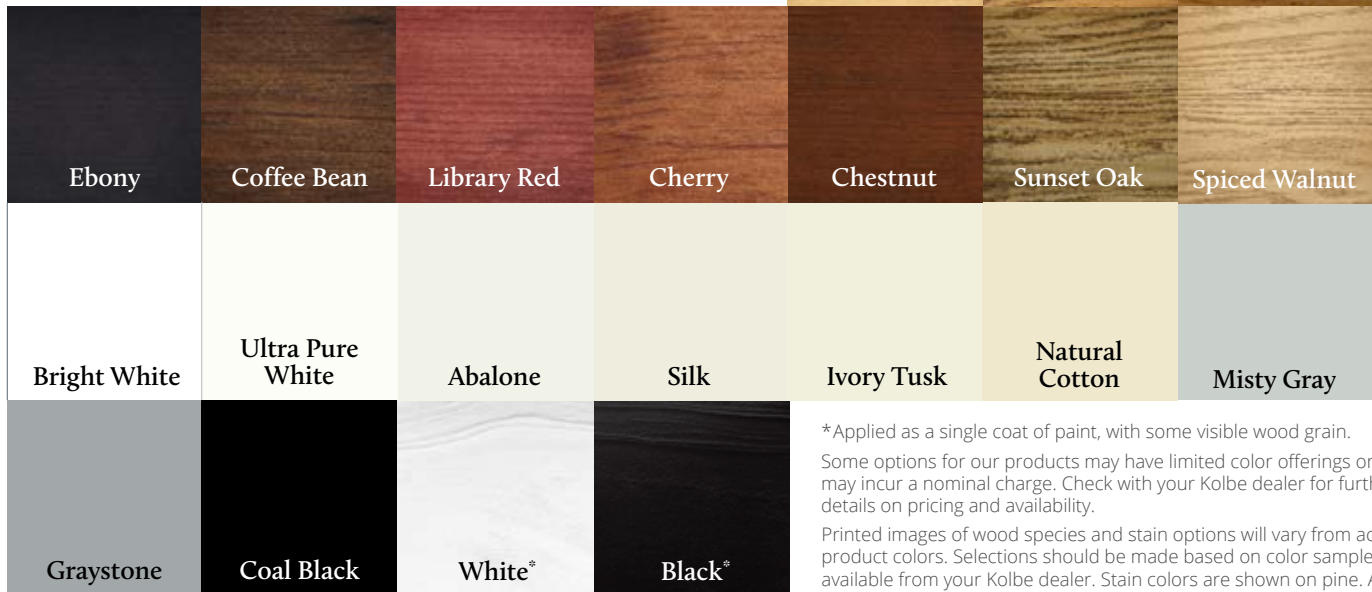
In addition to the standard pine, Kolbe's wood windows and doors can be constructed of other optional species that enhance their look. Pine and other wood species are sourced from managed forests. Forest Stewardship Council® (FSC®)-certified wood species are also available to help support responsible forestry (FSC® license code FSC®-C019541).

Ask about the availability of additional wood species.



## Interior Wood Finishes

For units that are ready to install upon delivery, Kolbe's windows and doors can be prefinished on the interior with one of the water-based stains or paints shown. Stained units are given two coats of satin clear finish. Because our interior finishes are water-based, low-VOC stains and paints, you can rest assured you've made an environmentally conscious decision. Custom colors may be requested as well.



\*Applied as a single coat of paint, with some visible wood grain.

Some options for our products may have limited color offerings or may incur a nominal charge. Check with your Kolbe dealer for further details on pricing and availability.

Printed images of wood species and stain options will vary from actual product colors. Selections should be made based on color samples available from your Kolbe dealer. Stain colors are shown on pine. A double coat clear finish is also offered. Since no two trees are identical, wood can be expected to differ both in color and graining. These factors will influence the stain's final color.

Color-matched interior paint is available through any Sherwin-Williams retail store in the United States and Canada. The color formula for Kolbe's interior paint finishes is in their National Account System.

## Exterior Colors & Finishes

Kolbe's aluminum-clad products are available in a range of high-performance exterior finishes designed for exceptional durability, chemical resistance, abrasion, corrosion protection, and long-term weathering performance. Heritage Series products can be coated with K-Kron II – a durable exterior finish that enhances and preserves the look of wood windows and doors. Ask your Kolbe dealer about custom colors.

				White	Cloud	Ultra Pure White	
				Abalone	Alabaster	Camel	
Mudpie	Nutmeg	Khaki	Sahara	Beige	Natural Cotton	Spiced Vinegar	
Gingersnap	Truffle	Bronze	Rustic	Shadow	Shale	Smokestack	
Corbeau	Eclipse	Tungsten	Steel Gray	Slate	Castlerock	Timberwolf	
Coal Black	Onyx	Midnight	Sapphire	Coastal Storm	Lunar	Emerald Isle	
Cider	Copper Canyon	Basil	Mystic Ivy	Mediterranean	Green Tea Leaf	Hartford Green	
Chutney	Roma	Maize	Custom Colors Available				
Galaxy Silver Mica*	Silverstorm Mica*	Cosmic Gray Mica*	Night Sky Mica*	Mica*	Anodized	Clear Anodized	
					Black Anodized	Champagne Anodized	
						Dark Bronze Anodized	

NOTE: Heritage Series products are not available in Bronze, Onyx, Coal Black, Midnight, Corbeau, Eclipse, Tungsten, Mica or Anodized finishes.

Anodized finishes are warranted for 10 years.

\* Mica finishes are 70% PVDF fluoropolymer as standard. Fluoropolymer coatings meet performance requirements of AAMA-2605 and are recommended for coastal applications. Please see your Kolbe dealer for details.

Some options for our products may have limited color offerings or may incur a nominal charge. Check with your Kolbe dealer for further details on pricing and availability. Printed images of exterior finishes may vary slightly from actual colors. Selections should be made based on actual color samples available from your Kolbe dealer.

There is a "color range" with anodized colors. That is, there is an acceptable "light" to "dark" color range that can be experienced on any job. According to AAMA 611-98 specifications, Section 8.3, the range may be up to 5 Delta E's. We can provide from our anodized vendor color samples of this color range if requested. The color range is due to numerous variables which include (but are not limited to) the shape of the parts, alloy variations and time in the anodizing process. This could mean that a sash part may appear slightly different in color than a frame part. This is/will be acceptable. Even the samples that may be provided may vary from the final product due to the variables. You must be aware of this as this will be considered acceptable.

# Finish Options

Available for Forgent® Series



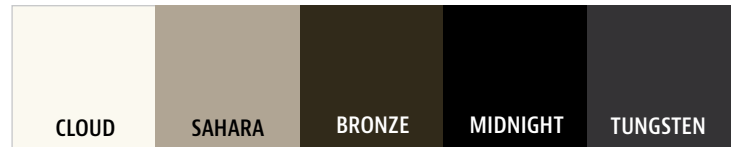
## Finish Combination Options

Forgent Series offers popular exterior and interior finishes to coordinate with hardware selection, trim and décor.

The Cloud and Sahara colors are integral to the Glastra® material, while Bronze, Midnight and Tungsten can be applied in various combinations, as shown.

Forgent Series exterior films are compliant with and have achieved 307-16 certification from the American Architectural Manufacturers Association (AAMA). The AAMA 307-16 designation specifically refers to Voluntary Specifications for Laminates Intended for Use on AAMA Certified Profiles.

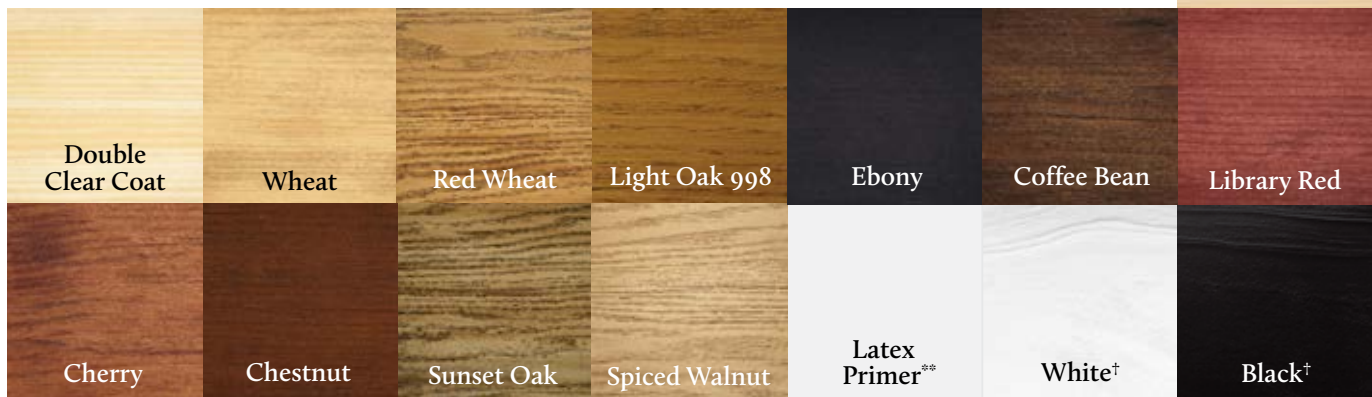
		INTERIOR				
		CLOUD	SAHARA	BRONZE	MIDNIGHT	WOOD
EXTERIOR	CLOUD	•				•
	SAHARA		•			•
	BRONZE	•		•		•
	MIDNIGHT	•			•	•
	TUNGSTEN	•				•



NOTE: Tungsten is available as an exterior finish only. Ask your Kolbe dealer for details.

## Interior Wood Finishes – Glastra/Wood Units

Forgent Series Glastra/Wood windows are offered with a Pine interior. For units that are ready to install upon delivery, Forgent Series windows can be prefinished on the interior with one of the water-based stains or paints shown. Stained units are given two coats of satin clear finish. Because our interior finishes are water-based, low-VOC stains and paints, you can rest assured you've made an environmentally conscious decision.



NOTES:  
 \* All units supplied with unfinished pine interiors must be finished in the field.  
 \*\*Latex primer is not a final finish.  
 † White Paint and Black Paint are applied as single coats, with some visible woodgrain.  
 Printed images of wood species and stain options will vary from actual product colors. Selections should be made based on color samples available from your Kolbe dealer. Stain colors are shown on Pine. Since no two trees are identical, wood can be expected to differ both in color and graining. These factors will influence the stain's final color.

# Finish Options

Available for VistaLuxe® AL LINE



Ultra Pure White	Signal Black	Clear Anodized	
Onyx	Steel Gray	Dark Bronze Anodized	Black Anodized

## Interior & Exterior Finishes

The VistaLuxe AL LINE offers sophisticated finishes that enhance the lifelong beauty of your windows and doors. Four powder-coated and three anodized surface treatments are available, for protection of the aluminum as well as for design aesthetic. Powder-coated finishes are also available with pre-anodization for added protection in coastal and corrosive environments. See your Kolbe dealer for details.

Printed images of interior and exterior finishes will vary from actual colors. Selections should be made based on color samples available from your Kolbe dealer. There is a "color range" with anodized colors. That is, there is an acceptable "light" to "dark" color range that can be experienced on any job. According to AAMA 611-98 specifications, Section 8.3, the range may be up to 5 Delta E's. We can provide from our anodized vendor color samples of this color range if requested. The color range is due to numerous variables which include (but are not limited to) the shape of the parts, alloy variations and time in the anodizing process. This could mean that a sash part may appear slightly different in color than a frame part. This is/will be acceptable. Even the samples that may be provided may vary from the final product due to the variables. You must be aware of this as this will be considered acceptable.



# Divided Lites



Photo provided by Palm Beach Windows & Doors

Expand the character of your project by adding one of our divided lite options to your impact-resistant windows and doors. Kolbe offers performance divided lite (PDL) options for all product lines, from a traditional, colonial style pattern to a modern steel aesthetic. Or select grilles-in-the-airspace for a similar appearance to PDL with easier cleaning. Not all profiles are available for all products.

## Performance Divided Lites

Performance divided lites give the appearance of true divided lites without sacrificing energy efficiency. Available in various widths, divided lite bars are adhered to both sides of the glass with spacer bars in between.



Beveled PDL\*



Ovolo PDL\*\*



Square PDL\*\*



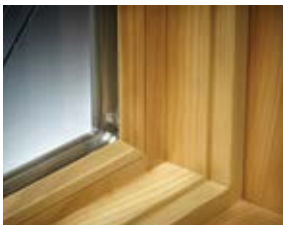
Triangular PDL  
(VistaLuxe® WD LINE only)



Square Aluminum PDL  
(VistaLuxe® AL LINE only)

## Glazing Beads & Muntin Bars

As standard, glazing beads have a beveled profile, but may also be ordered with an ovolo or square profile for Ultra Series and Heritage Series products. Matching muntin bars are available on units with performance divided lites. Units will have beveled muntin bars on the exterior, regardless of which profile is chosen for the interior.



Beveled



Ovolo\*



Square\*

## Grilles-in-the-Airspace

Grilles-in-the-airspace are constructed with aluminum bars sealed between two panes of insulating glass, offering the look of divided panes while reducing cleaning time. For Forgent® Series units with 7/8" insulating glass, 3/4" wide contoured bars are available in a variety of colors and two-tone wood finishes.



Grilles-in-the-Airspace  
(Forgent® Series only)

NOTE: Limitations apply. Please consult your local dealer for more information.

\* Not available for VistaLuxe® WD LINE or VistaLuxe® AL LINE products.

\*\*Not available for Forgent® Series, VistaLuxe® WD LINE or VistaLuxe® AL LINE products.

# Screens



Kolbe offers a wide assortment of window and door screens, with various mesh and frame options to accommodate specific needs. Whether aluminum-framed\*, wood-wrapped to match the interior, or inswing operation for easy cleaning, it's easy to enjoy the fresh ocean breezes of your coastal locale.



## Retractable Insect Screen Kit

For those who prefer an unobstructed view at times, a retractable insect screen kit is offered for select Ultra Series and Heritage Series double hungs, casements and awnings. When you want to open your window

and use the screen, operation is practically effortless. Simply press the pull bar down to the sill to engage the screen; gently push toward the exterior to allow the screen to retract.

Kit includes all the components necessary for field installation on either an Ultra Series or Heritage Series unit.

## Expansive Openings

Kolbe also offers a variety of screens for all product lines, including folding and sliding windows and doors to accommodate indoor-outdoor living. Choose from pleated retractable screens, sliding or swinging screens, as well as Centor® retractable screens and shades with numerous mesh, shade, finish and wood veneer options.



## Insect Screen Mesh

Kolbe windows and doors feature various screen mesh options to keep insects out. BetterVue® fiberglass mesh is less visible than many screens in the industry, and has a tighter weave to keep smaller bugs out. It is also flame retardant, and doesn't stain, crease or dent. UltraVue® mesh offers the ultimate in visibility. Both of these options meet strict chemical emissions limits for healthier interiors. Or, choose durable Aluminum screen mesh to help guard against damage from fiberglass screen-eating insects found in certain regions.



UltraVue® Mesh



BetterVue® Mesh



Aluminum Mesh



## Water Shed Technology™

Water Shed Technology is an advanced water repellent coating that allows screens to repel water and debris. BetterVue and UltraVue mesh feature this durable coating that increases the life expectancy of the screens, by keeping them cleaner longer. Water beads up and rolls off, to preserve viewing clarity, rain or shine.

Water Shed Technology™ is a trademark of PHIFER INCORPORATED.

\* Screens for VistaLuxe AL LINE products are only available with aluminum frames. Centor® screens and shades are not available for all products. Ask your local Kolbe dealer for more information. BetterVue® and UltraVue® are registered trademarks of PHIFER INCORPORATED.

# Reference | Terminology

When considering impact-resistant windows and doors for a coastal project, you will come across various terms that are used for rating the products. Some of the design pressure, acoustic and performance terminology is explained below to help guide your window and door selection.



© Ron Rosenzweig Architectural Photography

## **North American Fenestration Standard/ Specification (NAFS) Design Pressure (DP)**

Rating that identifies the load induced by wind that a product is rated to withstand in end use. The higher the DP rating, the more resistance the window or door has to wind load. Not to be confused with Performance Grade (PG).

## **NAFS Performance Grade (PG)**

Numeric designator that defines the performance of a product upon successful completion of all applicable testing (air, water, structural, durability).

## **ASTM Impact Rating**

Number that represents a window's performance when impacted by a "missile" (a 9-lb. 2x4 to simulate wind-borne debris). The window is subjected to 9,000 positive and negative static pressure differential cycles, and the assigned number designates pounds per square foot (psf).

## **Sound Transmission Class (STC)**

Rating that determines sound reduction characteristics of glass products and window units. Higher ratings indicate more effective sound insulation than lower ratings.

## **Outdoor/Indoor Transmission Class (OITC)**

Used to measure low- to mid-frequency exterior sounds, including street noise such as car horns, sirens, construction and low-flying airplanes.

## **National Fenestration Rating Council (NFRC)**

Look for the NFRC label found on Kolbe's windows and doors for energy performance ratings across key performance categories. The specific categories you may see are outlined below.

## **U-Factor (or U-Value)**

The lower the U-factor, the greater a window's resistance to heat flow and the better its insulating value. Units are Btu/(hr·ft<sup>2</sup>·°F).

## **Solar Heat Gain Coefficient (SHGC)**

How well the glass blocks solar heat and prevents it from warming the interior space. In hot climates, less solar heat gain is generally good, and this number should be low. A low SHGC rating is more effective at reducing cooling loads during the summer by blocking heat gain from the sun. In cold climates, a higher solar heat gain number is better. A high SHGC rating is more effective at collecting solar heat gain during the winter.

## **Visible Light Transmission (VT)**

How well light is seen through the glass. The lower the VT, the darker the tint and the more light will get blocked. A higher VT means there is more daylight in a space, which if designed properly, can offset electric lighting.

## **UV Light Transmission**

How well the glass blocks ultraviolet light. The higher the UVT, the more ultraviolet light that is blocked by the glass.

## **Air Leakage**

Air leakage measures how much air will enter a room through a product. The lower the number, the fewer drafts experienced.

# Wind Zones

In an effort to make sure buildings can keep occupants safe while withstanding local weather conditions, universal wind zones were established and must be met in regions that require it. Wind zones refer to the maximum wind speeds that can be reached in an area, measured in miles per hour (MPH), as well as the resulting force it applies to structures, measured in pounds per square foot (PSF).

Kolbe offers products that are designed to perform in a diverse range of climates and weather patterns, including high winds. Below is a guide to understanding the types of conditions for which our products are rated.

## WIND ZONE 1\*

130 mph up to, but not including, 140 mph, and Hawaii. Wind loads in this zone will exceed 40 psf. The I-Codes require wind-borne debris\*\* construction in certain areas and conditions within this zone. Windows and doors must be designed to withstand an impact from a 4.5 lb. 2x4 stud (Missile C) projected at 40 feet per second (27 mph) to simulate flying debris. This impact is followed by a total of 9,000 positive and negative air pressure differential cycles to simulate the high winds of a hurricane.

## WIND ZONE 2\*

140 mph up to, but not including, 150 mph at greater than one mile from the mean high-water mark. Wind loads in this zone exceed 50 psf. The I-Codes require wind-borne debris\*\* construction in all areas with a wind speed of 140 mph or greater. Wind-borne debris requirements are identical to Wind Zone 1.

## WIND ZONE 3 (IPD3)\*

150 mph and greater, or 140 mph and greater within one mile of the mean high-water mark. The I-Codes require wind-borne debris\*\* construction in all areas with a wind speed of 140 mph or greater. Windows and doors must be designed to withstand an impact from a 9.0 lb. 2x4 stud (Missile D) projected at 50 feet per second (34 mph) to simulate flying debris. This impact is followed by a total of 9,000 positive and negative air pressure differential cycles to simulate the high winds of a hurricane.

## WIND ZONE 4 (IPD4)\*

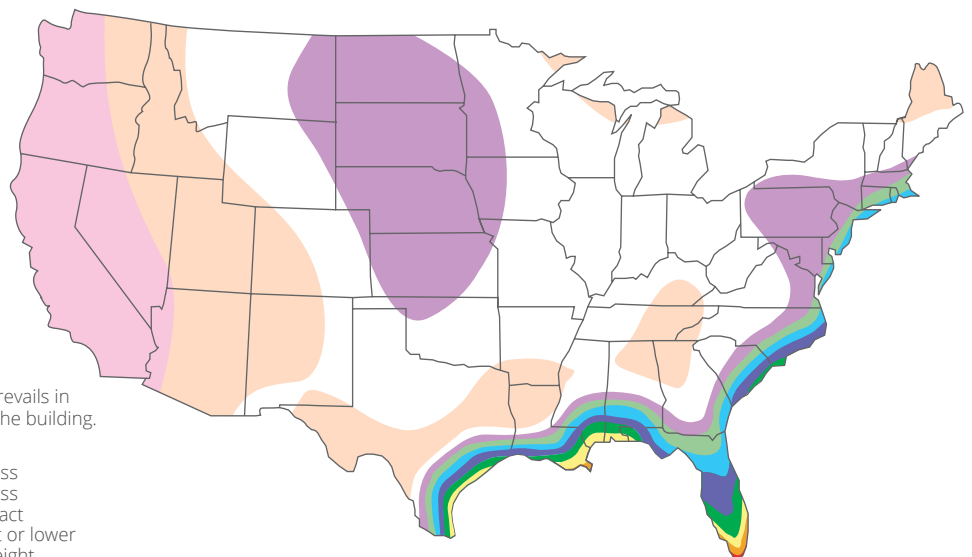
This is an optional wind zone loosely based on the Florida Building Code's High Velocity Hurricane Zone (HVHZ). Some codes list Wind Zone 4 as greater than 160 mph, others list Wind Zone 4 as greater than 170 mph. The I-Codes require wind-borne debris\*\* construction in all areas with a wind speed of 140 mph or greater. Windows and doors must be designed to withstand two impacts from a 9.0 lb. 2x4 stud (Missile D) projected at 50 feet per second (34 mph) to simulate flying debris. These impacts are followed by a total of 9,000 positive and negative air pressure differential cycles to simulate the high winds of a hurricane.

## High Velocity Hurricane Zone (HVHZ)

The stringent building codes, standards, and product approval systems of the HVHZ apply to the Florida counties of Broward and Miami-Dade. Windows and doors must be designed to withstand two impacts from a 9.0 lb. 2x4 stud (Missile D) projected at 50 feet per second (34 mph) to simulate flying debris. These impacts are followed by a total of 9,000 positive and negative air pressure differential cycles to simulate the high winds of a hurricane. Products must be certified by a third-party, registered with the Florida Product Approval system, and are subject to production quality assurance programs.

### 2024 International Building Code

170 to 180 mph	120 to 130 mph
160 to 170 mph	115 to 120 mph
150 to 160 mph	110 to 115 mph
140 to 150 mph	100 to 105 mph
130 to 140 mph	90 to 100 mph



\* Wind speeds are ultimate design wind speed.

\*\* Exposure D condition applies where a water exposure prevails in the upwind direction for 5,000 ft. or 20 times the height of the building.

NOTES: Codes for local jurisdictions may vary.

IPD3 = Impact Performance, 9# Missile D, Wind Zone 3 or less

IPD4 = Impact Performance, 9# Missile D, Wind Zone 4 or less

HVHZ LMI = High Velocity Hurricane Zone Large Missile Impact

Large Missile Impact = Window locations at 30 feet in height or lower

Small Missile Impact = Window locations above 30 feet in height

Many Kolbe products meet or exceed AAMA/WDMA/CSA 101/I.S.2/A440, ASTM E1886 and E1996 standards, Florida Statewide Product Approval system, and the Texas Department of Insurance Product Approval system.

# Reference | Building Codes

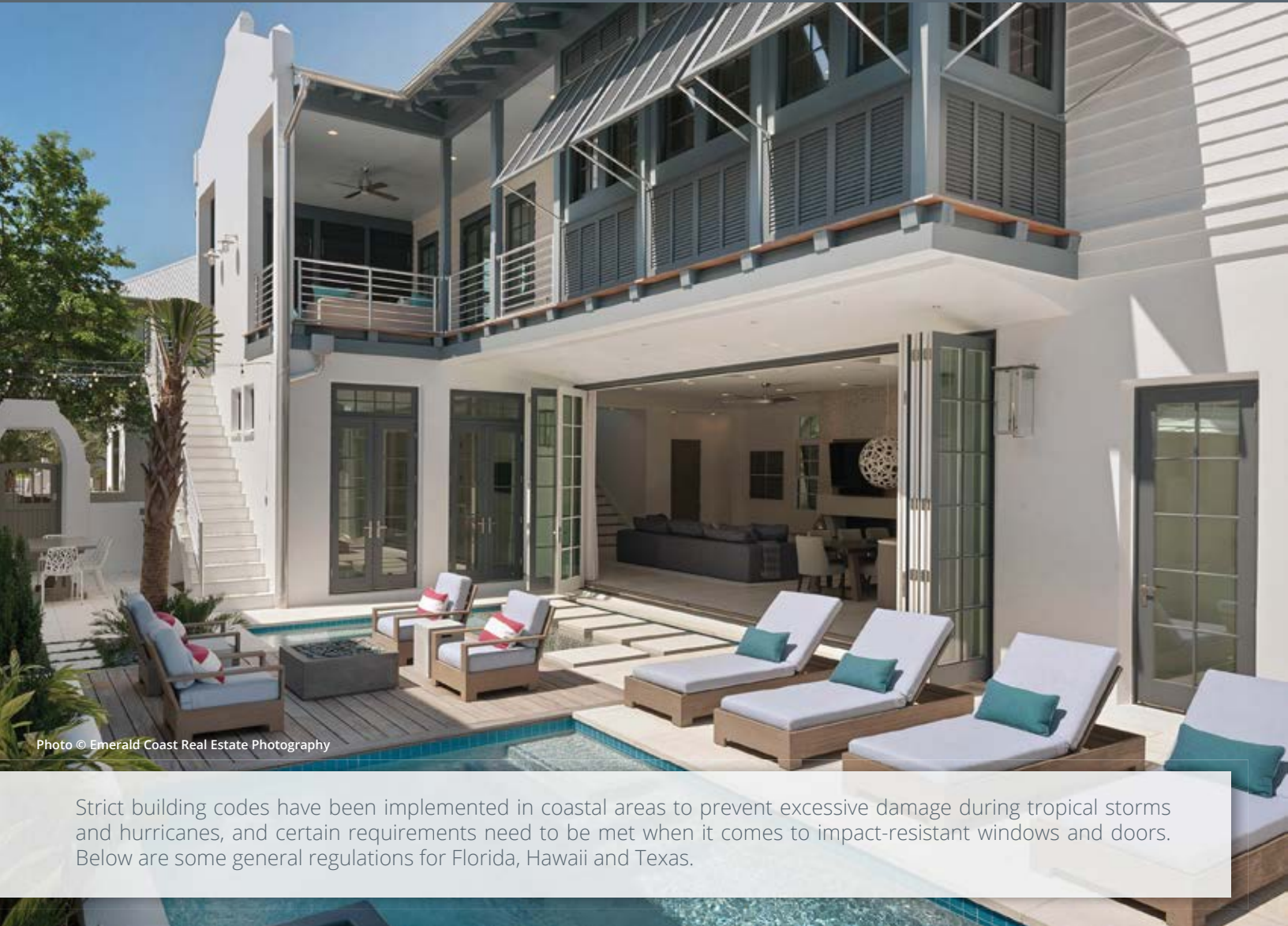


Photo © Emerald Coast Real Estate Photography

Strict building codes have been implemented in coastal areas to prevent excessive damage during tropical storms and hurricanes, and certain requirements need to be met when it comes to impact-resistant windows and doors. Below are some general regulations for Florida, Hawaii and Texas.

## Florida Building Code

The Florida Building Code requires windows to be impact-resistant or protected if located within one mile of the mean high-water mark and the ultimate wind speed is 130 mph or greater, or where the ultimate wind speed is 140 mph or greater.

## Texas Building Code

Texas adopted the I-codes and follows the windborne debris region criteria, but also has Designated Catastrophe Areas made up of 14 coastal counties and parts of Harris County. Most of the Designated Catastrophe Areas are now located within the windborne debris region and may qualify for Texas Windstorm Insurance coverage.

## Hawaii Building Code

The Hawaii Building Code requires windows to be impact-resistant or protected if located within one mile of the mean high-water mark and the ultimate wind speed is 130 mph or greater, or where the ultimate wind speed is 140 mph or greater.

See performance  
class & grade,  
approvals & more.



[kolbewindows.com/performance-class-grade](https://kolbewindows.com/performance-class-grade)

To see the most current product information – including configuration, ratings, maximum size tested, Florida and Texas approval numbers – please visit [kolbewindows.com/performance-class-grade](https://kolbewindows.com/performance-class-grade).

## ENERGY STAR® – United States



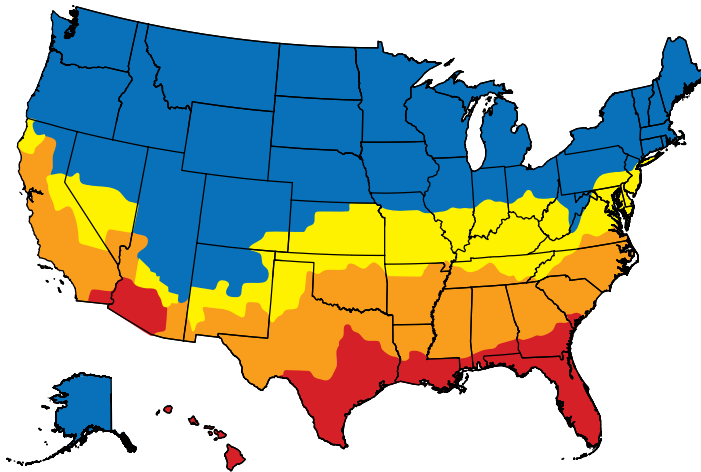
ENERGY STAR is a government-regulated program that was created by the Environmental Protection Agency (EPA), and the U.S. Department of Energy (DOE), to help consumers quickly and easily identify energy saving products. The ENERGY STAR

program uses energy values obtained by window and door manufacturers through the National Fenestration Rating Council (NFRC) program. NFRC ratings are based on the energy performance of the total window or door – both glass and frame.

The ENERGY STAR program for the United States divides the nation into four separate climate zones – Northern, North-Central, South-Central, and Southern.

The performance criteria that needs to be met in order to be ENERGY STAR compliant in a specific climate zone (effective October 23, 2023) is shown in the charts provided.

Explore ENERGY STAR certified products at: [energystar.gov/productfinder](https://energystar.gov/productfinder)



- Northern  
Mostly Heating
- North-Central  
Heating & Cooling
- South-Central  
Heating & Cooling
- Southern  
Mostly Cooling

### 2023 ENERGY STAR 7.0 Qualification Criteria for Windows

Climate Zone U.S.	U-Factor <sup>1</sup>	SHGC <sup>2</sup>	
Northern*	≤ 0.22	≥ 0.17	Prescriptive
	= 0.23	≥ 0.35	Equivalent Energy Performance
	= 0.24		
	= 0.25		
	= 0.26		
North-Central	≤ 0.25	≤ 0.40	
South-Central	≤ 0.28	≤ 0.23	
Southern	≤ 0.32	≤ 0.23	

Air leakage for windows ≤ 0.3 cfm/ft<sup>2</sup>

<sup>1</sup> Btu/h ft<sup>2</sup> · °F

<sup>2</sup> Solar Heat Gain Coefficient

\* Northern zone windows can meet prescriptive (1st row) or equivalent energy performance (2nd through 5th rows) criteria to qualify for ENERGY STAR.

### 2023 ENERGY STAR 7.0 Qualification Criteria for Doors

Glazing Level	U-Factor <sup>1</sup>	SHGC <sup>2</sup>
Opaque	≤ 0.17	No Rating
≤ 1/2-Lite	≤ 0.23	≤ 0.23
> 1/2-Lite	≤ 0.26	Northern North-Central ≤ 0.40
	≤ 0.28	Southern South-Central ≤ 0.23

Air leakage for sliding doors ≤ 0.3 cfm/ft<sup>2</sup>

Air leakage for swinging doors ≤ 0.5 cfm/ft<sup>2</sup>

### California's Title 24

Many of Kolbe's windows and doors can meet the strict California Title 24 Building Energy Efficiency Standards. Talk to your dealer about products with glass options that help meet these stringent energy efficiency requirements.

**For energy performance data, visit:**

▶ [kolbewindows.com/energy](https://kolbewindows.com/energy)

Kolbe demonstrates a commitment to providing accurate energy data by having products independently simulated, tested, inspected and listed in the NFRC certification program, and making that data available at [kolbewindows.com](https://kolbewindows.com) and on window labels.

Energy performance data and air, water, structural data is updated on a continual basis. For the most current information, contact your local Kolbe dealer.

# Reference | Professional Tools



Photo © Spacecrafting Photography, PKA Architecture, Streeter Custom Builder

Learn more about our tools & resources for professionals.



[kolbewindows.com/resources](https://kolbewindows.com/resources)

## Architect Library

Kolbe's Architect Library is the main resource for specifying windows and doors. Search detailed product information, including:

- Cross section drawings
- Elevation charts
- 3D Revit® models
- CSI specifications
- Installation instructions

## Additional resources include:

- Door configurations
- Clear openings
- Care & maintenance guide
- Acoustic data
- Energy performance
- Performance class & grade
- Product brochures
- Color & design samples
- Warranties

## AIA/CES Courses

As a Registered AIA Continuing Education Services (CES) provider, Kolbe provides AIA Learning Units (LU) and/or Health, Safety & Welfare (HSW) credits as required per state and/or professional memberships to meet yearly requirements.

## Virtual Showrooms

Experience Kolbe's full capabilities through three interactive showrooms filled with product displays and custom solutions.

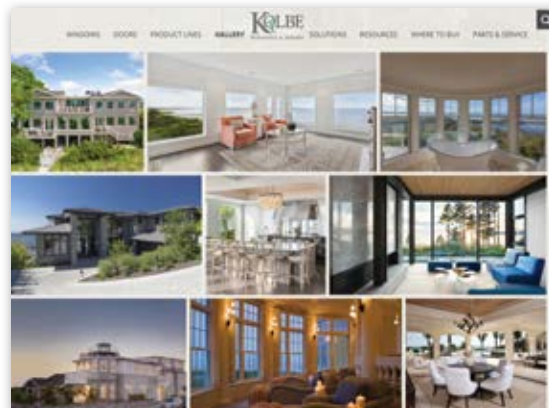
[kolbewindows.com/virtual-showroom](https://kolbewindows.com/virtual-showroom)



## Inspiration Gallery

Browse through photos, videos, project profiles and custom solutions.

[kolbewindows.com/gallery](https://kolbewindows.com/gallery)







See our full selection  
of impact-certified  
windows and doors.



[kolbewindows.com/solutions/impact-resistance](https://kolbewindows.com/solutions/impact-resistance)

# KOLBE

WINDOWS & DOORS

We're for the visionaries.®

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