



Inspiration Portfolio

KOLBE
WINDOWS & DOORS







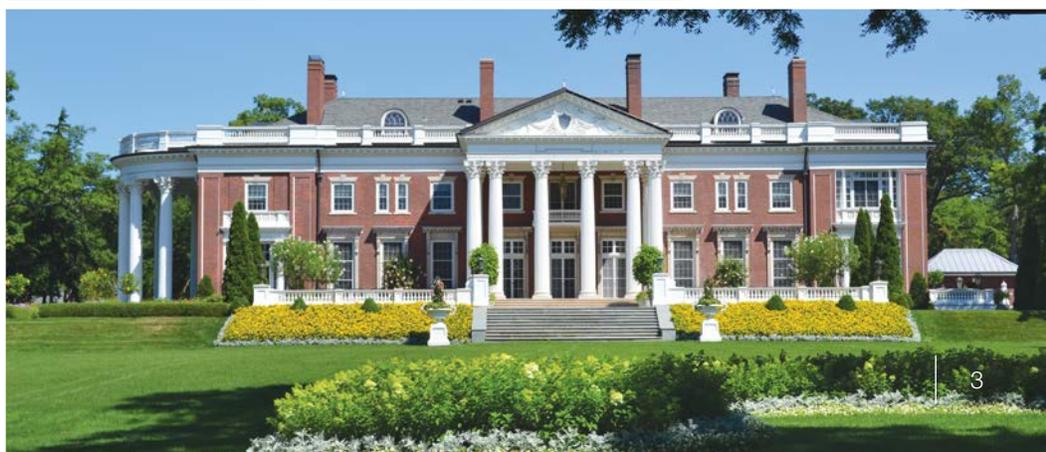
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Product Lines



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Ultra Series

Features extruded aluminum clad wood windows and doors for either residential or commercial new construction and renovation – providing exceptional performance and style. K-Force® option available for coastal areas requiring hurricane impact performance.*

- ▶ Crank-Out Casements & Awnings
- ▶ Push-Out Casements & Awnings
- ▶ Majesta® Double Hungs
- ▶ Sterling Double Hungs
- ▶ Traditional Double Hungs
- ▶ Magnum Double Hungs
- ▶ Replacement Pocket Double Hungs
- ▶ Traditional and Magnum Replacement Sash Kits
- ▶ Double & Triple Sliders
- ▶ Tilt-Turns
- ▶ Folding Windows
- ▶ Geometric Units
- ▶ Radius Units
- ▶ Ogee & Beveled Direct Sets
- ▶ Sliding & Swinging Patio Doors
- ▶ TerraSpan® Lift & Slide Doors
- ▶ Folding Doors
- ▶ Multi-Slide Doors
- ▶ Inswing & Outswing Entrance Doors



Heritage Series

Our line of wood windows and doors offering traditional design aesthetics – ideally suited to residential and commercial new construction and historical restoration. K-Force® option available for coastal areas requiring hurricane impact performance.*

- ▶ Crank-Out Casements & Awnings
- ▶ Push-Out Casements & Awnings
- ▶ Inswing Casements
- ▶ Majesta® Double Hungs
- ▶ Sterling Double Hungs
- ▶ Traditional Double Hungs
- ▶ Old World Classic Double Hungs
- ▶ Magnum Double Hungs
- ▶ Traditional & Magnum Replacement Sash Kits
- ▶ Tilt-Turns
- ▶ Double & Triple Sliders
- ▶ Geometric Units
- ▶ Radius Units
- ▶ Sliding & Swinging Patio Doors
- ▶ Folding Doors
- ▶ Inswing & Outswing Entrance Doors
- ▶ Commercial Doors



Classic Series

This line of windows and doors has a roll-formed aluminum exterior cladding with a durable polyester finish. Classic series products can also be custom-ordered with copper cladding that develops a natural patina as it ages.

- ▶ Crank-Out Casements & Awnings
- ▶ Traditional Double Hungs
- ▶ Traditional Double Hung Replacement Sash Kits
- ▶ Double & Triple Sliders
- ▶ Geometric Units
- ▶ Radius Units
- ▶ Sliding & Swinging Patio Doors
- ▶ Inswing & Outswing Entrance Doors

* K-Force option is not available on all products. Please ask your dealer for more information.



Photo courtesy of Christopher Simmonds Architect

VistaLuxe™ Collection

Collaboratively developed with architects for contemporary projects, VistaLuxe windows and doors offer clean lines and large expanses of glass. An extruded aluminum exterior provides low-maintenance durability, while a wood interior proves that modern design can be warm and efficient.

- ▶ Direct Sets
- ▶ Crank-Out Casements
- ▶ Crank-Out Awnings
- ▶ Swinging Doors
- ▶ Geometric Units
- ▶ Complementary Multi-Slide Doors
- ▶ Complementary Folding Doors & Folding Windows



Latitude® Series

A full line of vinyl windows and patio doors, offering traditional design paired with modern convenience, low maintenance and energy efficiency – perfect for both residential and commercial new construction and replacement.

- ▶ Crank-Out Casements & Awnings
- ▶ Double Hungs & Single Hungs
- ▶ Single, Double & Picture Sliders
- ▶ Geometric Units
- ▶ Radius Units
- ▶ Sliding & Swinging Patio Doors



Windquest® Series

Vinyl windows and patio doors that are designed to meet very specific needs. Impact Performance (IP) units are designed for coastal areas prone to hurricanes. High Performance (HP) units offer optimal design pressure ratings. Energy Performance (EP) units are built to meet or exceed strict energy efficiency requirements.

- ▶ Crank-Out Casements & Awnings
- ▶ Double Hungs & Single Hungs
- ▶ Single Sliders
- ▶ Geometric Units
- ▶ Radius Units
- ▶ Sliding Patio Doors



Complementary Doors

Doors that can be used for entrances or other areas to complete your project.

- ▶ Craftsman Collection Doors
- ▶ Fiberglass Doors





Casements

Offering convenience and plenty of daylight, Kolbe's casements open at the side and seal tightly to the frame. When open, they create an unobstructed view and allow breezes and sunlight to move freely in and out of your home. Kolbe's casement windows are available in a multitude of versatile styles, including French, segment head and half-circle top casements, to bring energy efficiency and superior style to every type of home. Kolbe's casement windows have different insect screen options, including retractable screens.

*Crank-Out Casements | Crank-Out EP Casements | Push-out Casements | French Casements
Inswing Casements | Transom Units | Picture Combination Units | Bow & Bay Units
Segment Head Units | Half-Circle Top Units*







Awnings

Operating outward from the bottom, Kolbe's awning windows offer ventilation while keeping the exterior elements at bay. Their versatility can also create architectural interest in small spaces, especially when combined above or below casements and picture windows. Awnings offer unique style to any room and are the perfect complement to other Kolbe windows and doors. Retractable screens are just one of the insect screen options on Kolbe's awning windows.

*Crank-Out Awnings | Crank-Out EP Awnings | Crank-Out XL Awnings | Push-out Awnings
Picture Combination Units | Muller Configurations*







Double Hungs

Quality details adorn the classic design of Kolbe's double hungs. Both Traditional and Sterling double hung sash can be removed from the inside of your home for easy cleaning. The Sterling double hung offers concealed jambliners and innovative locking hardware that allows the sash to unlock, operate and tilt in from one location. Majesta double hungs are perfect for oversized openings and the Old World Classic double hung has a unique historical design using today's technologies. Options such as divided lites or triple pane glass enhance the style and performance of your windows. Ask your dealer about insect screen options, including retractable screens.

*Sterling Double Hungs | Traditional Double Hungs | Majesta® Double Hungs | Magnum Double Hungs
Old World Classic Double Hungs | Cottage-Style Double Hungs | Transom Units
Studio Combination Units | Bay Units | Segment Head Units | Half-Circle Top Units*







Folding Windows, Tilt-Turns & Sliders

Kolbe is well-known in the window and door industry for our innovative products. Folding windows are a perfect example, made for projects needing a pass-through type serving system. Our tilt-turns put a modern twist on a classic European window, with special hardware that allows them to open as a top-venting hopper window or an inswing casement. For traditionalists, Kolbe's slider windows offer a large, unobstructed view of the outdoors. Sash operate from side-to-side, making slider windows ideal for areas with limited space.

Folding Windows | Tilt-Turns | Traditional Double Sliders | Traditional Triple Sliders







Radius

To achieve a unique look, choose Kolbe's radius windows. Half-circle or elliptical units stacked above other Kolbe windows and doors create gracious curves and allow significantly more light to enter your room. Full-circle, quarter-circle and oval units are perfect for those small, cozy spaces. If those shapes aren't what you're looking for, Kolbe offers custom radius units as well. Choose a creative divided lite pattern to add to the appeal.

Quarter-Circles | Half-Circles | Full-Circles | Ovals | Ellipticals







Geometric

Make your design truly distinctive with Kolbe's geometric windows. Any combination will provide a light-filled room and a terrific view. Comprise a window wall with a variety of triangles, trapezoids, parallelograms, octagons, pentagons, diamonds, hexagons or any shape you can imagine to create a unique space that is sure to be eye-catching.

Triangles | Trapezoids | Parallelograms | Octagons | Pentagons | Diamonds | Hexagons



Photo courtesy of Sennikoff Architects







Direct Sets

If you don't need an operating window, but still want light to enter your home, direct set windows provide an ideal solution. The glass is set directly into the frame for windows that allow light in but keep air out. Kolbe offers Ogee Direct Set windows with traditional detail similar to old storefronts. Beveled Direct Set windows have an updated, streamlined appearance. EP models have triple pane glass for greater energy efficiency. VistaLuxe Collection Direct Sets offer an industry-leading frame-to-daylight ratio in three styles: Flush, Accent, and Accent Plus.

*Ogee Direct Sets | Ogee EP Direct Sets | Beveled Direct Sets
Beveled EP Direct Sets | VistaLuxe Direct Sets*







Photo courtesy of The Alexis Agency



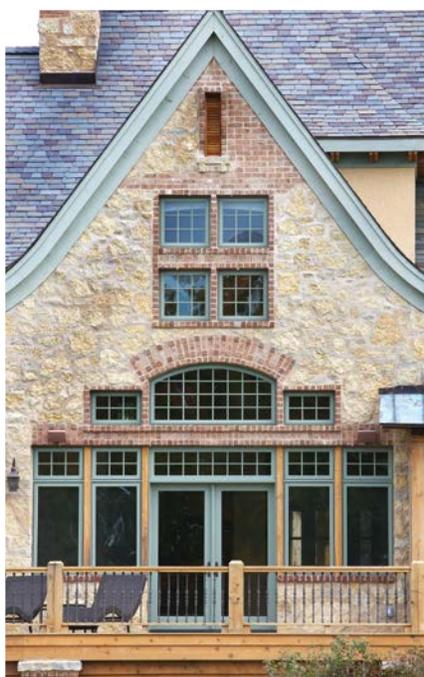
Patio Doors

Kolbe's patio doors are a great way to connect your indoor and outdoor living spaces. For large openings and expansive views, choose Folding Doors or TerraSpan Lift and Slide Doors. Sliding patio doors are the perfect solution for an attractive and space-saving opening to a terrace or garden. To allow for additional light and a panoramic view, mull a series of patio doors together, or include matching transoms or radius units. Stylish hardware with finishes to match any decor will add beauty and originality to your passageway.

Inswing Patio Doors | Outswing Patio Doors | Garden-Aire Sliding Patio Doors | Folding Doors
TerraSpan® Lift and Slide Doors | Multi-Slide Doors | Patio Door Transoms



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Architecture by Christopher S. Smith, Becker Morgan Group







Entrance Doors

A distinctive entrance is a defining feature of your home, which is why Kolbe offers a multitude of glass, panel configuration and wood species options to ensure that every entrance door creates a grand statement. Entrance doors are available in single, double and French units, and can be customized with sidelites or transoms to create a dramatic entryway.

*Inswing Entrance Doors | Outswing Entrance Doors | Craftsman Entrance Doors
Raised Panel Doors | Segment Head Doors | Sidelites & Transoms*



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Architecture by Christopher L. Pattey, Becker Morgan Group



Quality Construction



Standard Features of Kolbe's Premium Wood Products:

- ▶ Constructed of preservative-treated pine to easily accept stain and coordinate with interior decor
- ▶ Extension jambs applied to accommodate most wall thicknesses for design and construction flexibility
- ▶ LoE²-270 insulating glass filled with argon gas* for energy efficiency
- ▶ Glazed to the interior with wood glazing beads for a true wood window appearance
- ▶ Fully weatherstripped for a tight seal to keep the elements out

Ultra Series:

- ▶ Extruded aluminum clad exterior for superior durability
- ▶ Finished on the exterior with a commercial-grade, 70% PVDF fluoropolymer coating that meets the requirements of AAMA 2605-05 specifications – the highest level in the industry
- ▶ Accessory grooves are integral to the extruded frames for the easy addition of exterior trim and sill nosing
- ▶ Frame corners have an internal alignment system and are internally sealed with silicone for an extremely tight seal
- ▶ Head drip caps are applied to most standard units to direct water away from your home
- ▶ Heavy vinyl nailing fin applied to units without brickmould for easy installation



*Ultra Series
Extruded Aluminum
Clad Unit*

VistaLuxe™ Collection:

- ▶ Heavy duty extruded aluminum alloy frames are press fit onto the exterior-grade uPVC core
- ▶ Finished on the exterior with a commercial-grade, 70% PVDF fluoropolymer coating that meets the requirements of AAMA 20605-05 specifications – the highest level in the industry
- ▶ Frame corners are mitered for consistency across product types
- ▶ Consistent profiles between multiple window and door types
- ▶ Glass that remains on the same plane across different products
- ▶ A reduced visible frame for an increased viewing area
- ▶ Precise vertical and horizontal alignment on both the interior and the exterior
- ▶ Head drip caps are applied to most standard units to direct water away from your home
- ▶ Integrated uPVC nailing fin applied to units for easy installation



*VistaLuxe Collection
Extruded Aluminum
Clad Unit
(Flush style shown)*

Heritage Series:

- ▶ All wood units
- ▶ 1-15/16" brickmould applied for a traditional look
- ▶ Frame and sash exteriors are latex primed, ready for topcoat of your choice



*Heritage Series
Wood Unit*

Classic Series:

- ▶ Frame and sash exteriors are covered with roll-formed aluminum
- ▶ Heavy vinyl nailing fin applied for easy installation



*Classic Series
Roll-formed
Aluminum Clad Unit*



Photo courtesy of The Alexis Agency



Standard Features of Kolbe's Premium Vinyl Products:

- ▶ Constructed of multi-chambered uPVC extrusions that add strength and create a thermal barrier
- ▶ Fusion welded frame and sash corners prevent any water or air infiltration and provide greater structural integrity
- ▶ White and beige standard integral colors
- ▶ LoE²-270 insulating glass filled with argon gas*
- ▶ Fully weatherstripped for a tight seal
- ▶ Integral accessory grooves on the interior and exterior of the frames for the easy addition of numerous interior and exterior accessories providing design flexibility

Latitude® Series:

- ▶ Frame corners are fusion welded
- ▶ Metal reinforced interlocks provide structural integrity
- ▶ Integral 1-1/4" pre-punched nailing fin for easy installation and sealing of the opening
- ▶ Equal glass sizing provides matching sight lines from sash to sash



Latitude Series
Vinyl Unit

Windquest® Series:

- ▶ Available as Impact Performance, High Performance or Energy Performance models
- ▶ Metal reinforces the complete perimeter of the sash providing structural strength and achieving high design pressure ratings (not available on casements & awnings)
- ▶ Interior glazed
- ▶ Integral 1-1/8" pre-punched nailing fin for easy installation and sealing of the opening



Windquest Series
Energy Performance
Vinyl Unit



Photo courtesy of Rauth Photographic



Photo courtesy of The Alexis Agency

Finish Options



Interior Wood Species

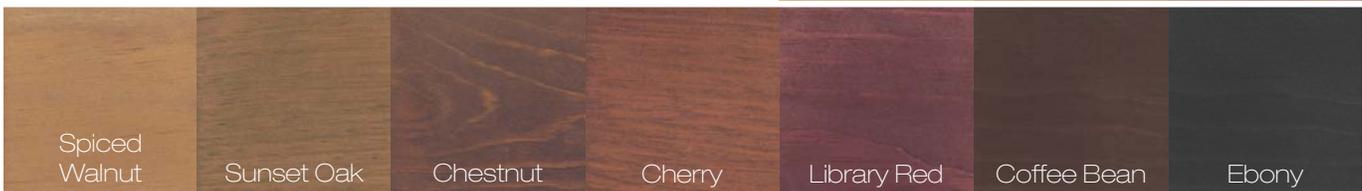
While most of our wood windows and doors are built from pine as standard, but we often craft windows and doors from other wood species. Our wood species, including Mahogany, are sourced from managed forests. If a special wood species will enhance the beauty of your project, we'll do our best to achieve your vision. FSC-certified wood species are also available for green building projects (FSC® license code FSC-C019541).



* Sourced from companies such as Lamboo, Inc.

Interior Finish Options

For units that are ready to install upon delivery, Kolbe's wood 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 finish clear sealer. 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 are also available.



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. Most Latitude Series products are available with a wood look interior in Cherry, Sunset Oak or Wheat. 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. Interior paint is not available for Latitude or Windquest Series products. Interior colors for Latitude and Windquest Series products include white and beige.

Exterior Finish Options

Kolbe's *Heritage Series* wood products can be coated on the exterior with K-Kron II, a high performance finish that offers a low-maintenance way to enhance and preserve the look of wood windows and doors. *Classic Series* clad products are available in 4 colors, and are coated with a polyester finish that is baked to cure and harden. We also offer a high performance, heat-reflective polyurethane coating in numerous colors for our *Latitude Series* and *Windquest Series* products. Custom options are also available. Contact your dealer for exterior finish samples.

Exterior Finish Options (continued)

Kolbe's *Ultra Series* and *VistaLuxe Collection* clad products are finished on the exterior with a commercial-grade, 70% PVDF fluoropolymer coating that meets the requirements of AAMA 2605-05 specifications – the highest level in the industry. This finish carries up to a 30-year warranty, and many color options (as well as custom colors) are available for design flexibility. Mica finishes are also available for Ultra Series and VistaLuxe Collection clad products, to add dimension and interest to the exterior look. In addition, a variety of unique, anodized exterior finishes are available for Ultra Series and VistaLuxe Collection clad products.

			Ultra Pure White	White	Abalone	Alabaster
Rustic	Sand	Mudpie	Beige	Spiced Vinegar	Camel	Natural Cotton
Gingersnap	Truffle	Coal Black	Slate	Frosted Jade	Kiwi	Bay Leaf
Pumpkin Spice	Butterscotch	Hartford Green	Mystic Ivy	Green Tea Leaf	Basil	Manchester
Chutney	Antique Red	Merlot	Patriotic Blue	Cape Cod	Waterford	Timberwolf
Clear Anodized	Champagne Anodized	Light Bronze Anodized	Medium Bronze Anodized	Dark Bronze Anodized	Black Anodized	Auburn Anodized
Cashmere Pearl Mica	Driftwood Mica	Hazelnut Mica	Espresso Mica	Autumn Spice Mica	Golden Harvest Mica	Pesto Mica
Pearlescent White Mica	Galaxy Silver Mica	Silverstorm Mica	Cosmic Gray Mica	Night Sky Mica	Café Noir Mica	

* Coal Black is not available for Heritage Series wood products.

Classic Series products are available in White, Beige, Sand and Rustic only.

Windquest & Latitude products are either white or beige as standard; the color is an integral part of the vinyl extrusions. They may be finished with most of the colors shown above, with the exception of Ultra Pure White, White, Beige, Antique Red or Patriotic Blue. Windquest Series Miami-Dade NOA certified products include only white vinyl products. Exterior coated or beige vinyl products are not allowed to receive label.

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.

Hardware Options



To complement the style of your home, Kolbe offers hardware options that are engineered to function effectively while matching the look you've chosen for your windows and doors. We've provided an overview of just some of the options that are available – standard hardware information can be found at www.kolbe-kolbe.com. Visit your Kolbe dealer to learn about all of our hardware options and which styles will work best to bring your vision to life.

Hardware Finish Options

To further customize your windows and doors, hardware options are available in a number of colors to best suit your décor.



* The oil-rubbed finish is a living finish, which means that it will change appearance over time with use.

Printed images of hardware finishes will vary slightly from actual colors. Not all hardware colors are available on all hardware options. Selections should be made based on color samples available from your Kolbe dealer.

Pricing for various finishes may vary. Please contact your Kolbe dealer for further details on pricing.

Certain door hardware colors are PVD (Physical Vapor Deposition) finishes, which helps protect the hardware against tarnishing, peeling and cracking.

Double Hung Sash Lift Handles

Sash lift handles can be added on the bottom sash of double hung windows to make operation easier and add a touch of historical charm. Handles are offered in two styles, with colors that complement the lock color. Handles shown below are available on Sterling, Traditional, Old World Classic, and Magnum double hungs.



Traditional style handle
(shown in Antique Brass)



Square style handle
(shown in White)

Swinging Door Handle Sets

Multiple handle styles are available for our swinging entrance and patio doors, as well as the swinging access panels that may be a part of folding door and window configurations.



München style handle
(shown in Oil-Rubbed)



Toronto style handle
(shown in Antique Brass)



Verona style handle
(shown in Matte Black)



Dallas style handle
(shown in Satin Nickel PVD)

Garden-Aire Sliding Patio Door Handle Sets

Garden-Aire sliding patio doors include single-point locks and handle sets as standard. A multi-point lock and handle set is also available, with bell- or arch-top escutcheons. Keyed lock and secondary security lock options are also available.



Single-point handle
(shown in Bright Brass)



Multi-point handle
(shown in Antique Nickel)

Folding Door and Window Hardware

As standard, folding panels have surface-mounted flush bolts factory-applied. Alternately, folding panels are available with concealed shoot bolts and one of two handle styles: Uno or Aria.



Flush bolt
(shown in Matte Black)

Concealed
shoot bolt



Uno handle
(shown in Dull Chrome)



Aria handle
(shown in Dull Chrome)

TerraSpan® Lift & Slide Door Handle Sets

TerraSpan lift & slide doors offer two removable handle sets, specifically designed for units that pocket into a wall. The LS100 is the standard handle set, and includes a swing cover on the escutcheon plate for when the handle is removed. The LS300 handle set is also available.



LS100 handle set
(shown in Oil-Rubbed)



LS300 handle set
(shown in Rustic Umber)

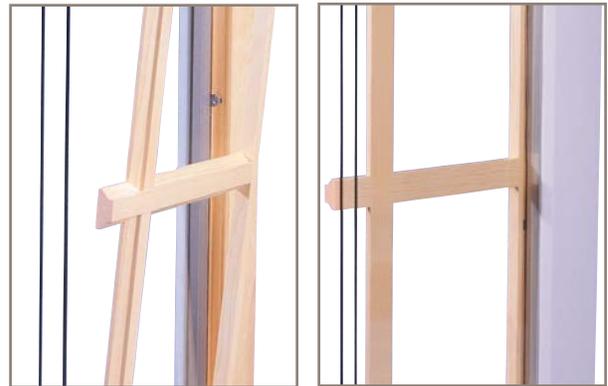
Divided Lites & Glazing Beads



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 units with 7/8" insulating glass, contoured, 3/4" wide bars are standard in White, Beige, Sand, Rustic, Hartford Green and Chutney. Optional colors are light wood and dark wood faux finishes. Flat, 5/8" wide grille bars are also available in White, Beige, Sand, Rustic, Hartford Green, Chutney, light wood and dark wood faux finishes and Brass. Two-tone contour or flat grilles are available with either light or dark wood faux finishes to the interior and White to the exterior. Also available for 7/8" insulating glass are 5/16" wide brass or pewter "pencil" bars.

Not all options are available for all products. Please contact your Kolbe dealer for details.



Wood Removable Grilles

Wood grilles are built with a full surround frame and bars that interlock at the joints for stability. Grilles are applied to the interior of the window using an exclusive hidden clip system.* This system makes unsightly pins and attachment points unnecessary and removal or replacement easy. Grille bars are profiled on the interior like traditional grilles. As standard, bars are constructed of unfinished pine and are 7/8" wide on windows and 1-1/8" wide on doors. Custom grille patterns, bar widths, wood species and interior stains may be available upon request.

* A clear pin system will be used for Garden-Aire sliding patio doors. Wood Removable Grilles are only available for Ultra, Classic and Heritage Series units.



Photo courtesy of The Alexis Agency



Performance Divided Lites

Kolbe's performance divided lite (PDL) glazing system gives the appearance of true divided lites without sacrificing energy efficiency. Extruded aluminum bars are adhered to the exterior and wood bars to the interior of the single lite of insulating glass.* Aesthetically-pleasing spacer bars are installed within the insulating glass unit. Together, these bars create the illusion of true divided lites. PDL bars are available in 5/8", 7/8", 1-1/8", 1-3/4", 2-1/4" or 4-1/2" bar widths. The exterior finish of the aluminum bars will match the exterior finish on the unit. Variations on the PDL option may include custom divided lite patterns, bar widths or no spacer bars.

* Some intricate designs and coastal applications may have a composite material for the exterior PDL bar.

True Divided Lites

True divided lites (TDL) give each unit the traditional look often found in historical projects. Units with TDL are comprised of 1-1/8" wide wood muntin bars in between individual 5/8" insulating glass.* The horizontal and vertical, colonial-style wood TDL bars interlock with half-lap joints for strength and security. Profile shadow lines enhance the warm, richness of the wood on both the interior and exterior. The exterior finish on the bars will match the exterior finish of the unit. TDL options include custom patterns and bar widths, other wood species and interior stain or paint finishes.

* Traditional double hung sash utilize 1/2" LoE insulating glass. True divided lites are only available for Heritage Series wood units.

Glazing Beads & Muntin Bars

For most series, standard glazing beads have a beveled profile, but may also be ordered with an ovolo profile or square profile. Matching muntin bars are available on units with true divided lites (TDL), performance divided lites (PDL) and wood removable grilles. Most units ordered with TDL and PDL will have beveled muntin bars on the exterior, regardless of the profile chosen for the interior.



Beveled Profile



Ovolo Profile



Square Profile



Options



Sash Limiter Kits

Kolbe's sash limiter kits limit the opening of the bottom double hung sash to address safety concerns, especially regarding children. These devices were developed to help prevent the potential of children falling from an open window, and meet the criteria of ASTM F2090 guidelines for fall prevention devices.



Sash limiter kits can be applied to Ultra Series Sterling, Traditional and Pocket double hungs, Heritage Series Sterling and Traditional double hungs, and Classic Series Traditional double hungs.

Casement Fall Protection

The casement fall protection device helps protect against potential falls by children through open windows. This is done by allowing the window opening to be set at a predetermined position of less than four inches and automatically re-latch when closed. Please consult local building codes for window opening control devices and applicable requirements. This device is a reliable, easy to install and easy to operate solution which meets today's more stringent safety requirements.



Casement fall protection devices can be applied to Latitude Series casements, Windquest Series casements, VistaLuxe Collection casements, Heritage Series crank-out casements, and Classic Series crank-out casements.

Universal Design

To meet the needs of homeowners with physical limitations, Kolbe offers a variety of windows and doors that are designed to make independent living possible. From door sills that create a flush surface for easier passage between the interior and exterior, to window and door hardware that provides ease of operation, we have numerous options that will help make living at home far easier. Whether your project is new construction or you are adapting an existing residence for a special need, Kolbe's windows and doors with universal design options will give you the freedom and style you are seeking.



Motorized operators for casement windows



Crank handles for double hung windows



Longer crank handles with large knobs for casement windows



Lever handles in a variety of styles for swinging doors



ADA-compliant sill for swinging patio and entrance doors



Aluminum sill ramp kits for Garden-Aire sliding patio doors

Glass

Kolbe offers glazing options to address the optimum energy efficiency of the overall window unit for the geographic region in which you live. As standard, we use double strength annealed glass in most units, with double-pane insulating LoE²-270 glass. LoE is a “smart” coating that reduces energy transfer through the insulating glass unit. LoE coated glass is also designed to reflect room-side heat back into the room during winter months. In summer, visible sunlight is allowed in while blocking 96% of the sun’s infrared heat energy. The result is significant savings on heating and cooling costs throughout the year. LoE coatings also reduce the potential for condensation, as well as provide protection against fading of furniture, fabrics and carpeting. Along with LoE coatings, standard glass is filled with argon gas*, which has a 30% lower thermal conductivity than that of air.

Kolbe also offers the following glass options, as well as many specialized options.

LoE²-240

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

LoE³-366

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

ThermaPlus LoE

Helps to meet the strictest energy requirements; provides protection against heat loss and UV damage.

Mountain Air Energy Package

Specifically designed to meet a U-factor of .30 without argon gas. Consists of a specially-constructed frame, second-generation ThermaPlus glass with LoE³-366 and a high altitude tube within the insulating glass unit. Available on Crank-Out Casements and Awnings, Sterling Double Hungs, and Studio/Picture, Transom and Direct Set units to match Crank-Out Casements and Sterling Double Hungs.

Triple Pane

Provides a greater energy performing window that keeps indoor air warm and comfortable, prevents heat loss and lowers your heating bills. It is constructed with three panes of glass, argon gas, Thermo-Edge spacer bars and is available with a variety of LoE coatings that best suit your needs.

Tinted, Colored or Patterned

Provides shading, privacy or visual interest.

Finely Crafted Glass

Decorative glass created with a variety of coming options.

Tempered

Standard in Kolbe doors to address safety concerns. Also available in window units to meet specific building codes.

Laminated

Benefits include safety, security, sound control and provides the ultimate in UV blockage.

Impact

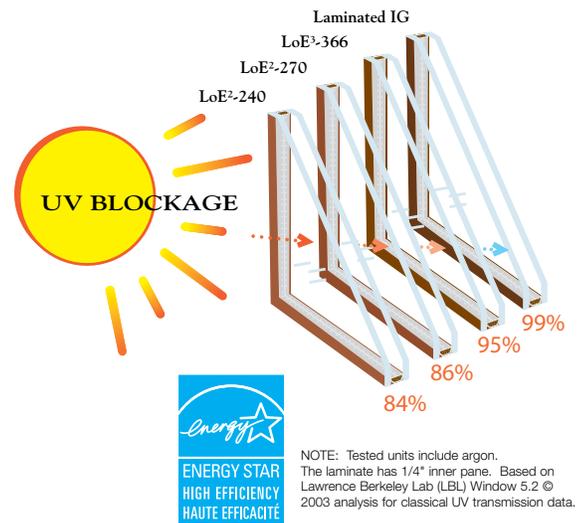
Glazing utilized to withstand harsh environmental conditions, especially in coastal regions. Combined with an impact product, such as K-Force®, this product offers the highest level of security.

Preserve Film

A protective film that protects the glass surfaces from scratches during transit and construction, as well as reducing the time involved in job site clean-up.

Neat®

Harnesses the sun’s UV rays to loosen dirt so water can rinse it away, leaving windows virtually spotless. 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.



* Argon gas may not be included with units to be installed in or shipped through high altitude areas. Units with true divided lites may not include argon gas.

Not all glass is available on all series. Please contact your Kolbe dealer for product specifics.

LoE², LoE²-240, LoE²-270, LoE³-366, Neat and Preserve are trademarks of Cardinal IG.

LoE insulating glass with a stainless steel spacer bar carries a 20-year warranty. Not all glass options listed have the same glass warranty. Please contact your supplier for details.

Options

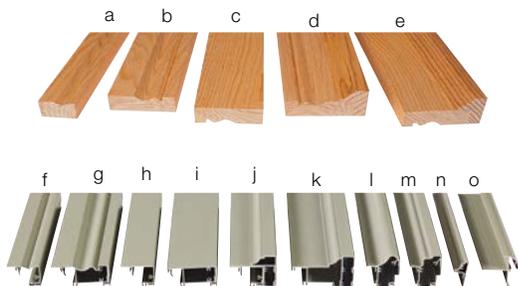


Exterior Brickmoulds & Casings

Accentuate the beauty of your windows and doors with Kolbe's exterior brickmoulds and casings. As standard, Heritage Series units have Kolbe's 1-15/16" profiled brickmould (a). Options available include 3-1/2" profiled brickmould (b), 3-1/2" flat casing (c), 3-1/2" profiled brickmould with backband (d), or 3-1/2" flat casing with backband (e).

Ultra Series windows and doors are standard without brickmould. Optional extruded aluminum trim pieces include 1-15/16" profiled brickmould (f), 3-1/2" profiled brickmould (g), 2" flat casing (h), 3-1/2" flat casing (i), 2" flat casing with backband (j), 3-1/2" flat casing with backband (k), 1-15/16" bull nose casing (l), 1-13/16" historic brickmould (m), ogee casing (n), stucco trim (o), 1-5/8" brickmould, beaded casing, or beaded casing with backband (not pictured). Contact your Kolbe supplier about the availability of additional or custom brickmoulds and casings.

Limited exterior trim and casing options are also available for VistaLuxe™ Collection, Windquest® Series, and Latitude® Series products.



Heritage Series unit with 1-15/16" brickmould and standard sill nosing



Ultra Series unit with 1-15/16" profiled brickmould and traditional sill nosing

Keystones & Pediment Heads

Keystones and pediment heads add a classic touch to the exterior of Heritage Series wood windows or doors. Pine keystones and pediment heads may be ordered unfinished, primed or prefinished with K-Kron II to match your windows or doors. Ask your Kolbe supplier for more information about keystones and pediment heads.



Keystone



Pediment Head

Copper Cladding

Enhance the aesthetic appeal of your windows and doors with copper cladding. Over time you will discover the hidden beauty when it develops a natural and unique patina. Copper cladding is available on most Classic Series units.



Wire Brush Finish

Most Kolbe wood windows and doors can be further enhanced by our wire brushed finish. Wire brushing creates a rugged texture and adds character – the perfect option to complement any rustic-styled home. Due to the nature of the finish, certain limitations apply.





Retractable Screen Kit

For those who prefer an unobstructed view at times, a retractable screen kit is offered for Kolbe's Sterling double hungs, crank-out casements, and push-out casements. Wood components that match the interior wood species and finish disguise the screen hardware, revealing only the beauty of the window. 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. A gentle push toward the exterior allows the screen to retract.



Included in the kit are all the components necessary for field installation on either an Ultra or Heritage Series unit.

Swinging Screen Doors

Swinging screen doors are available for field installation with Kolbe's single and double inswing doors. Screen doors feature an adjustable self-closing mechanism. Double swinging screen doors are equipped with spring-loaded locking mechanisms on the head and sill of the passive door. Energy efficiency is provided by weatherstripping around the frame perimeter and on the astragal of double screen doors; rubber door sweeps meet the sill. Swinging screen door frames are available in over 30 colors, plus custom colors.



Product Performance Modifications

Many of our products can be modified to meet even the most strict building code requirements. Depending on the criteria, Kolbe offers high performance and K-Force® impact performance products to improve air, water and structural ratings or sound transmittance ratings. With each level of modification, window and door strength is enhanced. This could be by using additional sash locks, alternative glazing methods or impact-rated laminated glass. Contact your Kolbe window and door supplier for further details.

StormGuard

Kolbe's durable StormGuard combination storm/screen units provide extra protection from the elements. Units feature two glass inserts and one screen insert that can be removed from the interior for cleaning. Frames are constructed of extruded aluminum made of a lightweight alloy, which is easy to handle without sacrificing performance. The sight lines and profile of StormGuard units closely match the window it complements, which means the unit will blend in and your view will not be obscured. Screen inserts have fiberglass mesh as standard; aluminum mesh is optional. StormGuards are available for many Ultra, Heritage, and Classic Series windows.



Double Hung
StormGuard
in White



Slider
StormGuard
in Beige



For professionals: www.kolbe-kolbe.com
For homeowners: www.kolbewindows.com

KOLBE

WINDOWS & DOORS

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