



Ultra Series



We're for the visionaries.®

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



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.



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.



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.



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



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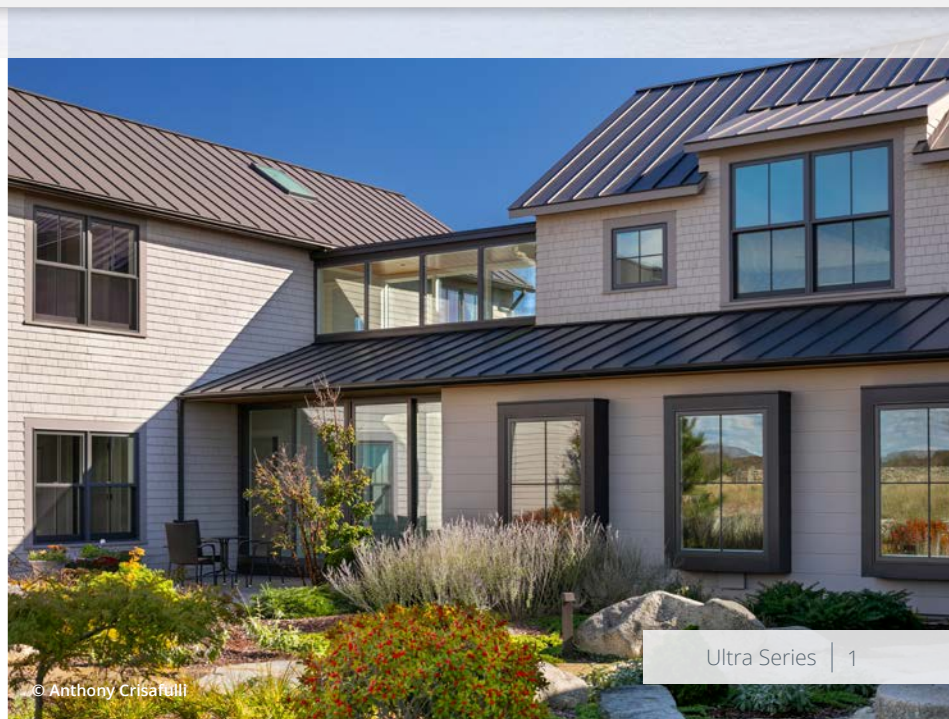
The Ultra Series

Designed for versatility, durability & performance – with an array of options.

Kolbe's Ultra Series windows and doors can mimic the traditional style of wood windows and doors with a warm wood interior and intricate exterior trim details, or it can accommodate modern design needs. Choose from an extensive palette of exterior colors, interior wood species, finishes, divided lite profiles, and more.

The Ultra Series provides:

- Durable 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
- Low-E, performance, & specialty glass
- Hardware options & finishes to match any décor
- Automation options for ease of operation

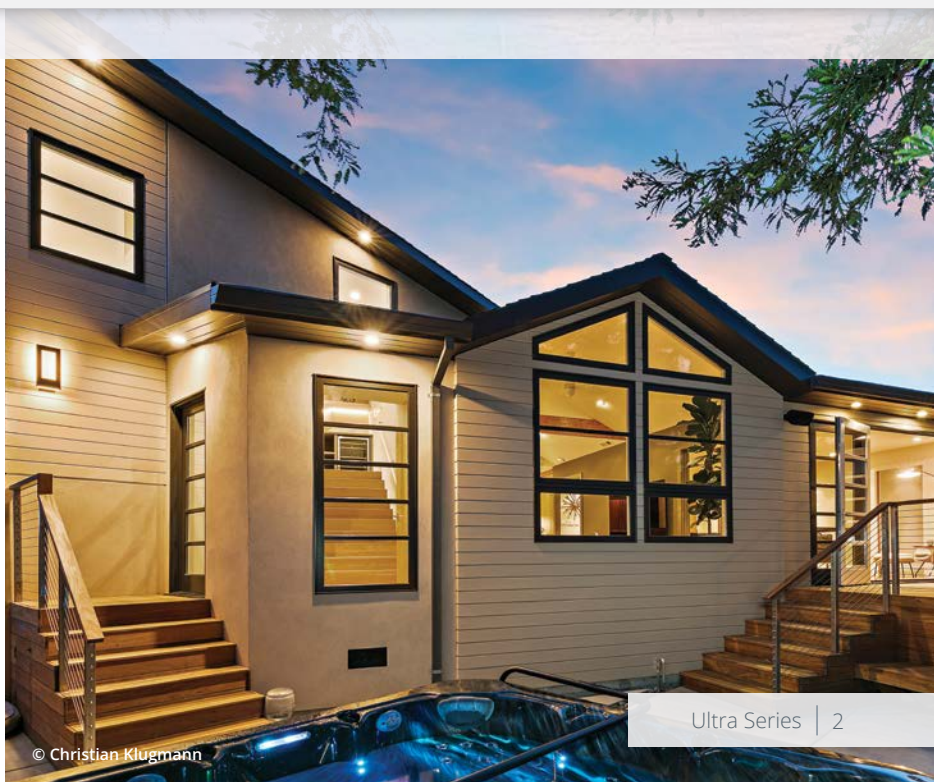




Capabilities

Craftsmanship and artistry are hallmarks of Kolbe products. We build innovative windows and doors with a wide array of options. But don't let the standard options limit your imagination.

At Kolbe, we love a good challenge. We welcome projects that require special wood species, custom divided lite patterns, unique shapes, custom finish colors, unusual mulling configurations – you dream it, we'll build it. Our windows and doors are built to order, so you can choose the options that best suit your design and vision. We offer multiple product lines with distinct characteristics and a full breadth of capabilities for customization and personalization.



Capabilities

Energy Efficiency

Kolbe Windows & Doors participates in the Window & Door Manufacturers Association (WDMA) Hallmark Certification and ENERGY STAR® programs to ensure that our products are tested to industry standards created to meet today's strict building codes.

Many of the Ultra Series products can also meet California's Title 24 Building Energy Efficiency Standards, as well as Passive House Institute US (PHIUS) verification. Kolbe can also assist with LEED®, green build, and sustainable project goals.

Visit: kolbewindows.com/solutions/energy-efficiency



Sustainability

Whether building a new house or updating an existing one, thoughtful choices create enduring homes that are beautiful, comfortable and instill peace of mind. We prioritize resilient design, supported with durable materials and high-performance products.

Our wood species are renewable resources sourced from managed forests, and our standard glass contains 25-30% recycled content. We can also provide The Forest Stewardship Council® (FSC®)-certified wood species for many products, when available (FSC® license code FSC®-C019541).



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 and on window labels.

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

Kolbe® holds The Forest Stewardship Council® (FSC®) Chain-of-Custody Certification. Some of our dealers also hold FSC® Chain-of-Custody Certification; consult with your dealer about using FSC®-certified wood in your project (FSC® license code FSC®-C019541).

Capabilities

Smart Home Automation

Kolbe's smart home solutions provide modern households and businesses with customized control of interior environments. By integrating advanced technology into select window and door products, Kolbe offers ease of operation and dynamic privacy.

Through the use of remotes, keypads, touch screens, or other smart devices, users can effortlessly control their windows and doors to open and close, lock and unlock, or switch from transparent to obscure on demand.

[Learn more about our smart home solutions.](#)



Impact Performance

Kolbe's Ultra Series impact performance products are specially designed with the strength and durability to withstand hurricane force winds and flying debris, and 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 our full listing of impact-certified products at:
kolbewindows.com/solutions/impact-resistance



Style & Design Options

Kolbe offers distinctive style and design options, to make your spaces unique. For the ultimate in personalization, choose from our numerous options, including hardware, glass, divided lites, screens, sills, exterior trim, and more – plus custom solutions to help bring your unique vision to life.

Hardware

Kolbe offers numerous hardware styles and finishes to complete your project. Complement your décor or add the finishing touch to a new entrance door. Plus, the added functionality of multi-point locks and automation options on select windows and doors adds convenience and security to your living experience.



Glass

There is so much more to glass than visibility. It can add to the aesthetic, enhance indoor comfort and acoustics, or provide privacy, security, and impact resistance. From smart coatings to smart glass, Kolbe's numerous glass options provide optimum energy efficiency, beauty and performance – to enhance your design as well as your lifestyle.



Divided Lites

Add architectural detail to windows and doors with performance divided lites. Choose anything from a traditional, Colonial style pattern to a custom design that accentuates the character and appearance of your home.

Finish Options

Interior Wood Species

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



Interior Finishes

For units that are ready to install upon delivery, Kolbe’s Ultra Series 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. 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. 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.
Kolbe® holds The Forest Stewardship Council® (FSC®) Chain-of-Custody Certification. Some of our dealers also hold FSC® Chain-of-Custody Certification; consult with your dealer about using FSC®-certified wood in your project (FSC® license code FSC®-C019541).

Exterior Colors

Kolbe's Ultra Series products are finished with a 70% PVDF fluoropolymer coating, an ideal choice for durability and resistance to chemicals, abrasion, corrosion, and weathering. In addition to the standard palette, custom colors can be specified, as well as Anodized aluminum and Mica* fluoropolymer finishes.

				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	Champagne Anodized
					Black Anodized	Dark Bronze Anodized

* 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.



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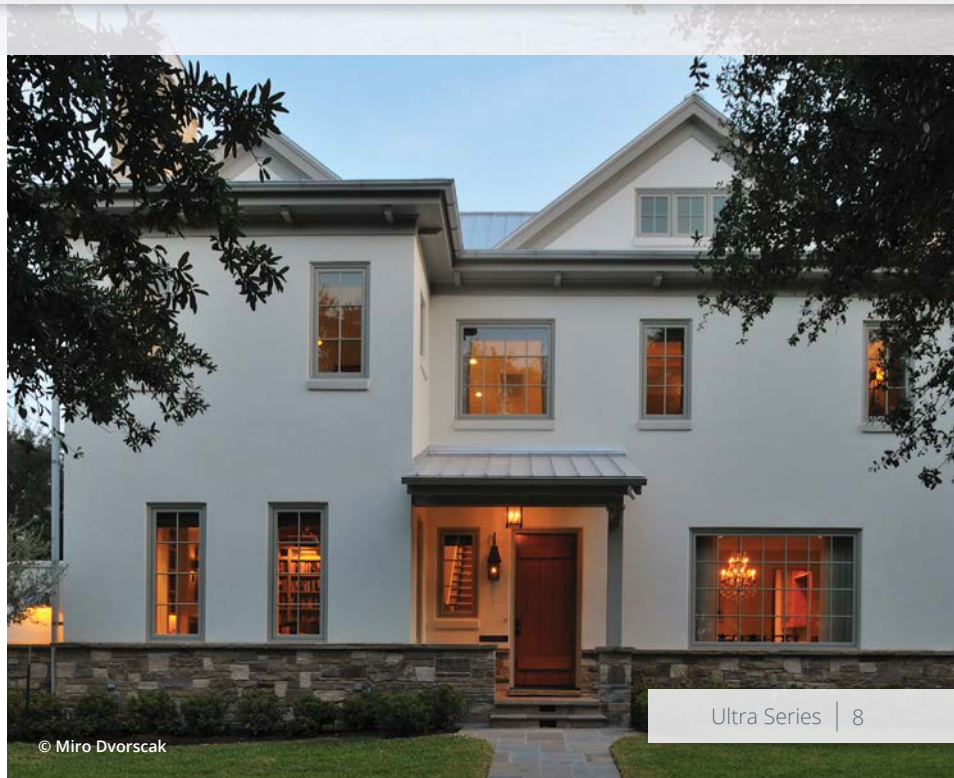
Casements

The design and performance of Ultra Series casements are the features that make these windows so popular. Most casements open from the side to a 90-degree angle, allowing for maximum ventilation. Multi-point locking levers offer a sleek, convenient way to tightly secure your windows from one locking location.

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



© Ron Rosenzweig Architectural Photography



© Miro Dvorscak

Crank-Out Casements

Kolbe's crank-out casements combine a simple cranking operation with many options for customization. By opening and closing easily and effectively, they provide excellent ventilation. Crank handles fold down when not in use to prevent interference with window treatments. For generous views and ventilation, use Kolbe's crank-out XL casements.



Standard Features – Crank-Out Casement

- ▶ 1-3/4" thick sash
- ▶ Overall jamb depth is 4-9/16" (*basic box depth is 2-3/4" plus extensions*)
- ▶ Constructed of pine, with pine interior stops and wood mull casings on mullied units
- ▶ Exterior wood parts are treated
- ▶ Extruded aluminum exterior finished with a 70% PVDF fluoropolymer coating (*meets performance requirements of AAMA 2605*)
- ▶ Energy efficient, insulating Solar Low-E glass
- ▶ Glazed to the interior with beveled wood glazing beads
- ▶ Interior insect screen with Clay-colored aluminum frame and BetterVue® fiberglass mesh
- ▶ Clay-colored nesting handle and traditional locking lever* with multi-point locking system
- ▶ Corrosion resistant, dual-arm operators with concealed, adjustable hinges (*On "W" series and wider. Dyad operators with concealed, adjustable hinges on units narrower than "W"; single-arm operators with Tri-Euro hinges for added support on segment head, half-circle top and impact units*)
- ▶ Nailing fins with head drip caps**
- ▶ Pine-veneered head and seat boards; unique, narrow mullions and cable support system on bow and bay units

Standard Features – Crank-Out XL Casement

(includes crank-out casement standard features, with the exception of the following substitutions):

- ▶ 2-1/4" thick sash
- ▶ Overall jamb depth is 4-9/16" (*basic box depth is 3-1/4" plus extensions*)

Options – Crank-Out/Crank-Out XL Casement

(not all options are available on all casement types; custom options are also available)

- ▶ French crank-out XL casements
- ▶ Single-arm operators with Euro hinges (*meet emergency escape and rescue requirements on some "L" Series casements*)
- ▶ Stainless steel exterior operator parts
- ▶ Extension jambs (*up to 12" applied, over 12" shipped loose for field application*)
- ▶ Galvanized steel installation clips
- ▶ Insect screen with aluminum or UltraVue® fiberglass mesh; retractable insect screen kit; wood wrapped
- ▶ Bow and bay options: insulated platforms, support brackets, and oak-veneered head and seat boards†
- ▶ Factory-installed Window Opening Control Device (WOCD)
- ▶ High performance or impact performance modifications

NOTES: All measurements are nominal.

UltraVue® is a registered trademark of PHIFER INCORPORATED.

* Traditional locking lever is not available on French casements.

** Standard only on units without brickmould.

† Not available for crank-out XL casements.

Push-Out Casements

Kolbe's push-out casements are a breeze to operate – just unlock a handle to push open or pull closed. Combining ease of use with authentic style, push-out casements offer Old World aesthetics and energy efficiency. Push-out EP (Energy Performance) casement windows can have triple pane glass for enhanced performance, meeting ENERGY STAR® criteria for U.S. and Canadian climate zones.



Standard Features – Push-Out Casement

- ▶ 1-3/4" thick sash
- ▶ Overall jamb depth is 4-9/16" (*basic box depth is 2-3/4" plus extensions*)
- ▶ Constructed of pine, with pine interior stops and wood mull casings on mull units
- ▶ Exterior wood parts are treated
- ▶ Extruded aluminum exterior finished with a 70% PVDF fluoropolymer coating (*meets performance requirements of AAMA 2605*)
- ▶ Energy efficient, insulating Solar Low-E glass
- ▶ Glazed to the interior with beveled wood glazing beads
- ▶ Single-point lever handle in an Oil-Rubbed® finish
- ▶ Concealed hinges (*segment head and half-circle top units use tri-Euro hinges for added support*)
- ▶ Nailing fins with head drip caps**

Standard Features – Push-Out EP Casement

(includes push-out casement standard features, with the exception of the following substitutions):

- ▶ 2-1/4" thick sash
- ▶ Overall jamb depth is 4-9/16" (*basic box depth is 3-1/4" plus extensions*)
- ▶ 1-3/8" total thickness of triple pane glass with Solar Low-E and Solar Gain Low-E coatings

Options – Push-Out/Push-Out EP Casement (not all options are available on all casement types; custom options are also available)

- ▶ French push-out casements
- ▶ Extension jambs (*up to 12" applied, over 12" shipped loose for field application*)
- ▶ Galvanized steel installation clips
- ▶ Retractable insect screen with BetterVue® or UltraVue® fiberglass mesh and beveled or square wood cover; swinging insect screen with BetterVue® or UltraVue® fiberglass mesh and wood frame
- ▶ Factory-installed Window Opening Control Device (WOCD)
- ▶ High performance or impact performance modifications

NOTE: All measurements are nominal.

BetterVue® and UltraVue® are registered trademarks of PHIFER INCORPORATED.

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

** Standard only on units without brickmould.

Inswing Casements

Kolbe's inswing casements are inspired by classic French design with modern updates to meet energy efficiency standards, proving it's possible to honor traditionally beautiful design while making a modern architectural statement. Inswing casements open in for ventilation and are available in single or French units.



© Tyler Davidson Photography



© Brantley Photography

Standard Features – Inswing Casement

- ▶ 1-3/4" thick sash
- ▶ Bottom rail height is 3-1/2"
- ▶ Overall jamb width is 4-9/16" (*basic box depth is 2-3/4" plus extensions*)
- ▶ Constructed of pine, with pine interior stops and wood mull casings on mull units
- ▶ Exterior wood parts are treated
- ▶ Extruded aluminum exterior finished with a 70% PVDF fluoropolymer coating (*meets performance requirements of AAMA 2605*)
- ▶ Energy efficient, insulating Solar Low-E glass
- ▶ Glazed to the interior with beveled wood glazing beads
- ▶ Drip-lip applied to the bottom exterior of the sash and a weep channel system on the sill
- ▶ Exterior screens with BetterVue® fiberglass mesh and aluminum screen frames in a variety of colors
- ▶ Bright Brass handle set as standard
- ▶ Sash hang on 3-1/2" x 3-1/2" butt hinges in a Bright Brass finish
- ▶ Multi-point locking hardware secures the unit
- ▶ Single-point lever handle in an Oil-Rubbed* finish
- ▶ Concealed hinges (*segment head and half-circle top units use tri-Euro hinges for added support*)
- ▶ Nailing fins with head drip caps**

Options – Inswing Casement (not all options are available on all casement types; custom options are also available)

- ▶ French inswing casements
- ▶ Interior casing
- ▶ Prep for stool
- ▶ Exterior brickmould and casing
- ▶ Projected sill nosing, extended sill horns, or no sill nosing
- ▶ Ovolo and square profile glazing beads
- ▶ Divided lite bars in beveled, ovolo or square profiles finished to match interior or exterior color
- ▶ Performance divided lite widths in 5/8", 7/8", 1-1/8", 1-3/8", 1-3/4", 2-1/4", and 4-1/2"
- ▶ Extension jambs (*up to 7"*)
- ▶ Galvanized steel installation clips
- ▶ Handle sets in White, Antique Brass, Bronze, Satin Nickel, Antique Nickel, Brushed Chrome, Oil-Rubbed* and Matte Black
- ▶ Screens to match exterior color
- ▶ Screens with aluminum or UltraVue® fiberglass mesh

NOTE: All measurements are nominal.

BetterVue® and UltraVue® are registered trademarks of PHIFER INCORPORATED.

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

**Standard only on units without brickmould.

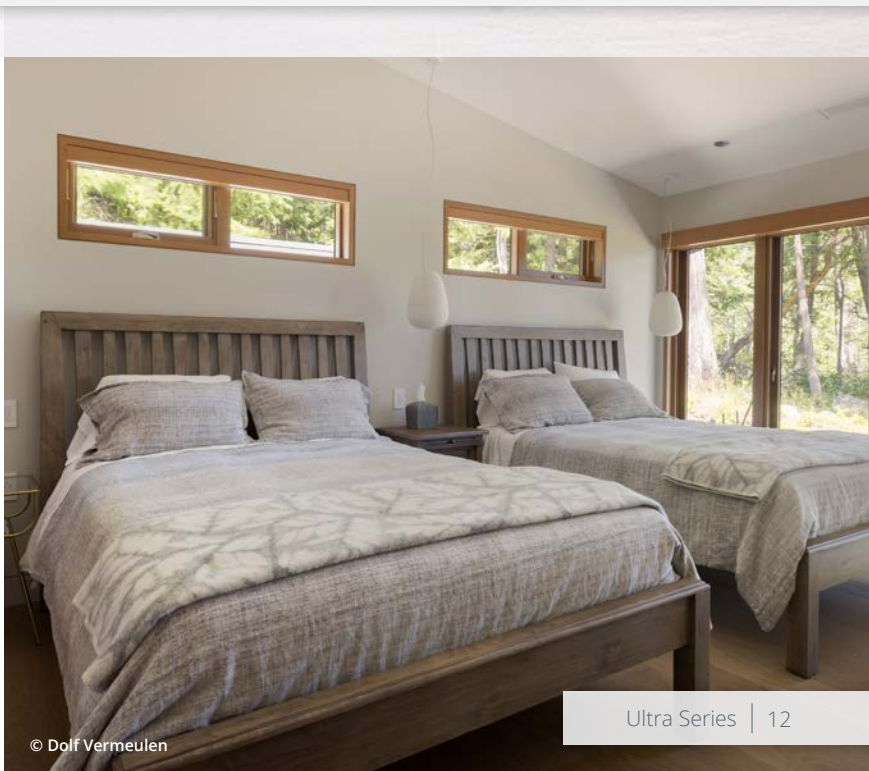


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Awnings

Ultra Series awning windows open outward from the bottom, so they are fully functional even when there is a gentle rain outside. Awnings offer unique style to any room and are the perfect complement to other Kolbe® windows and doors. Gas strut awnings allow pass-through functionality, opening up 90 degrees for maximum ventilation and easy indoor-outdoor entertaining.

*Crank-Out Awnings | Crank-Out XL Awnings | Push-Out Awnings | Push-Out EP Awnings | Gas Strut Awnings
Picture Units | Picture Combination Units | Mulled Configurations*



Crank-Out Awnings

Crank-out awnings open outward from the bottom with a crank handle that folds down when not in use. Crank-out XL awnings meet the demand for extremely large venting units. With their heavy-duty hardware, crank-out XL awnings operate smoothly despite their large size. Choose motorized operators for an effortless way to open and close your window, especially when it's in a hard-to-reach place.



Standard Features – Crank-Out Awning

- ▶ 1-3/4" thick sash
- ▶ Overall jamb depth is 4-9/16" (*basic box depth is 2-3/4"*)
- ▶ Constructed of pine, with pine interior stops and wood mull casings on mullied units
- ▶ Exterior wood parts are treated
- ▶ Extruded aluminum exterior finished with a 70% PVDF fluoropolymer coating (*meets performance requirements of AAMA 2605*)
- ▶ Energy efficient, insulating Solar Low-E glass
- ▶ Glazed to the interior with beveled wood glazing beads
- ▶ Interior insect screen with Clay-colored aluminum frame and BetterVue® fiberglass mesh
- ▶ Clay-colored nesting handle and traditional locking lever* with multi-point locking system
- ▶ Corrosion resistant, dual-arm operators with concealed, adjustable hinges
- ▶ Nailing fins with head drip caps**

Standard Features – Crank-Out XL Awning (*includes crank-out awning standard features, with the exception of the following substitutions:*)

- ▶ 2-1/4" thick sash
- ▶ Overall jamb depth is 4-9/16" (*basic box depth is 3-1/4"*)
- ▶ Specially-engineered hardware designed to accommodate the additional sash weight

Options – Crank-Out/Crank-Out XL Awning (*custom options are also available*)

- ▶ Motorized operator with keypad or wall switch
- ▶ Stainless steel exterior operator parts†
- ▶ Extension jambs (*up to 12" applied, over 12" shipped loose for field application*)
- ▶ Galvanized steel installation clips
- ▶ Insect screen with aluminum or UltraVue® fiberglass mesh; retractable insect screen kit; wood wrapped
- ▶ High performance or impact performance modifications
- ▶ Automated operation

NOTE: Minimum height requirement is 16".
All measurements are nominal.

BetterVue® and UltraVue® are registered trademarks of PHIFER INCORPORATED.

* Traditional locking levers are not available on units with a box size smaller than 1' 4".

** Standard only on units without brickmould.

† Not available on crank-out XL awning.

Push-Out Awnings

The simple operation of push-out awning windows makes them ideal for adding ventilation to any room. The sash pushes out and pulls in tightly to the frame. Weatherstripping prevents air infiltration, making them another great energy-efficient option. Push-out EP (Energy Performance) awning windows can be provided with triple pane glass for enhanced performance, meeting ENERGY STAR® criteria for U.S. and Canadian climate zones.



Photo courtesy of G.D. Nielsen Homes Ltd.



Standard Features – Push-Out Awning

- ▶ 1-3/4" thick sash
- ▶ Overall jamb depth is 4-9/16" (*basic box depth is 2-3/4" plus extensions*)
- ▶ Constructed of pine, with pine interior stops and wood mull casings on mull units
- ▶ Exterior wood parts are treated
- ▶ Extruded aluminum exterior finished with a 70% PVDF fluoropolymer coating (*meets performance requirements of AAMA 2605*)
- ▶ Energy efficient, insulating Solar Low-E glass
- ▶ Glazed to the interior with beveled wood glazing beads
- ▶ Single-point lever handle in an Oil-Rubbed* finish
- ▶ Concealed hinges
- ▶ Nailing fins with head drip caps**

Standard Features – Push-Out EP Awning (*includes push-out awning standard features, with the exception of the following substitutions*):

- ▶ 2-1/4" thick sash
- ▶ Overall jamb depth is 4-9/16" (*basic box depth is 3-1/4" plus extensions*)
- ▶ 1-3/8" total thickness of triple pane glass with Solar Low-E and Solar Gain Low-E coatings

Options – Push-Out/Push-Out EP Awning (*custom options are also available*)

- ▶ Extension jambs (*up to 12" applied, over 12" shipped loose for field application*)
- ▶ Galvanized steel installation clips
- ▶ Retractable insect screen with BetterVue® or UltraVue® fiberglass mesh and beveled or square wood cover; swinging insect screen with BetterVue® or UltraVue® fiberglass mesh and wood frame
- ▶ High performance modifications

NOTES: All measurements are nominal.

BetterVue® and UltraVue® are registered trademarks of PHIFER INCORPORATED.

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

** Standard only on units without brickmould.

Gas Strut Awnings

Kolbe's gas strut awning windows broaden the possibilities of indoor-outdoor connections with intuitive, continuous pass-through openings. With sizes ranging from 48"w x 36"h to 96"w x 54"h, up to 29.25-square-foot frame sizes can be achieved*. These large-scale, durable windows pivot to nearly 90 degrees outward – transforming your home's flow with a functional solution for stylish, effortless entertaining.



Standard Features – Gas Strut Awning

- ▶ 2-1/4" thick sash
- ▶ Minimum jamb depth is 5-9/16"
- ▶ Constructed of pine, with pine interior stops
(stops and side covers shipped loose for field installation)
- ▶ Exterior wood parts are treated
- ▶ Extruded aluminum exterior finished with a 70% PVDF fluoropolymer coating *(meets performance requirements of AAMA 2605)*
- ▶ Energy efficient, dual pane tempered Solar Low-E glass
- ▶ Glazed to the interior with beveled wood glazing beads
- ▶ Concealed hinges
- ▶ Multi-point locking handle in a Natural Brass finish
- ▶ Integrated gas struts for smooth, controlled operation
- ▶ Sill with extruded aluminum exterior & wood interior

Options – Gas Strut Awning *(custom options are also available)*

- ▶ Extension jambs *(up to 12" applied, over 12" shipped loose for field application)*
- ▶ Performance divided lite profiles & patterns *(limitations apply)*
- ▶ Multi-point lock handle in a Satin Nickel or Oil-Rubbed** finish
- ▶ Matte Black exterior handle
- ▶ No sill, for direct countertop interaction

NOTE: All measurements are nominal.

* Largest possible frame size is 78" x 54", dependent upon weight. See your Kolbe dealer for maximum sizes.

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

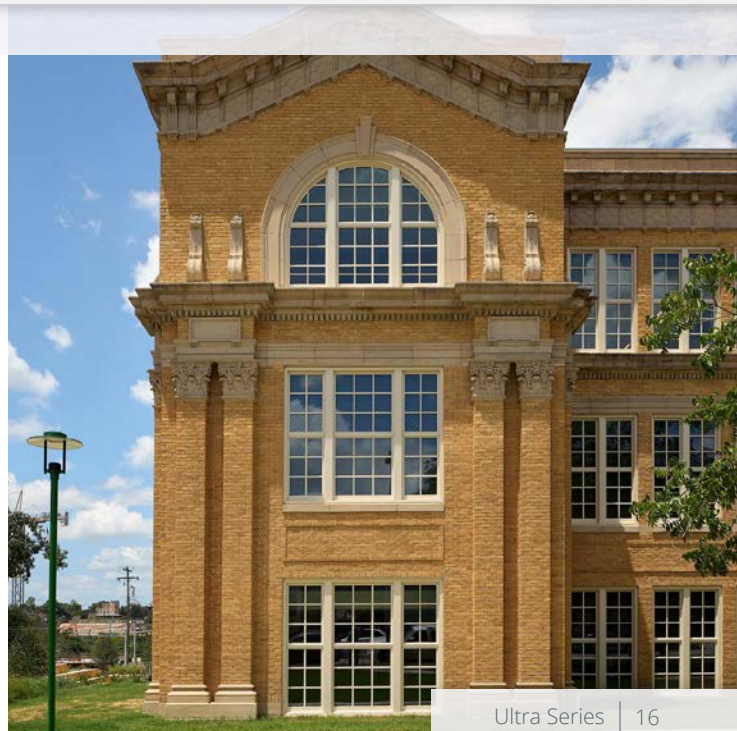


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Double Hungs

Quality details adorn the classic design of Ultra Series double hung windows. Sterling double hung sash can be removed from the inside of the home for easy cleaning. Replace older windows with unique cottage-style, radius-top, or XL Sterling units, choosing options like divided lites, hardware, screens, or triple pane glass, to enhance style or performance.

*Sterling Double Hungs | XL Sterling Double Hungs | Cottage Style & Reverse Cottage Style Units
Studio & Transom Units | Picture Combination Units | Segment Head & Half-Circle Top Units | Single Units*



Sterling Double Hungs

Sterling double hungs are made to blend seamlessly with the grandest décor. A patented interior wood cover conceals the jambliner, giving the windows a rich, all-wood appearance. The award-winning XL Sterling double hung expands the architecturally-correct design and high performance of a Sterling double hung. Quality components combined with thoughtful product design allow the XL Sterling double hung to be the perfect fit for any oversized commercial or residential opening. *Patents: 7,296,381 | 7,448,164 | 8,196,355 | 8,429,856*



Standard Features – Sterling Double Hung

- ▶ 1-3/4" thick sash
- ▶ Overall jamb depth is 4-9/16" (*basic box depth is 4-9/16"*)
- ▶ Frame thickness is 3/4" at side jambs and head
- ▶ Sill thickness is 1-3/16"; slope is 14°
- ▶ Constructed of pine, with pine interior stops and wood mull casings on mull units
- ▶ Exterior wood parts are treated
- ▶ Extruded aluminum exterior finished with a 70% PVDF fluoropolymer coating (*meets performance requirements of AAMA 2605*)
- ▶ Energy efficient, insulating Solar Low-E glass
- ▶ Glazed to the interior with beveled wood glazing beads
- ▶ Wood interior head parting stop
- ▶ Clay-colored heavy duty Signature sash lock
- ▶ Spring-loaded block-and-tackle mechanical balances to carry the sash weight
- ▶ Concealed balance system
- ▶ Patented wood wrapped jambliner closure on the interior (*unless interior is prefinished white or primed, then jambliner will be white*) and extruded aluminum jambliner closure on the exterior hides the balance system
- ▶ Nailing fins with head drip caps*

Standard Features – XL Sterling Double Hung (includes sterling double hung standard features, with the exception of the following substitutions):

- ▶ Overall jamb depth is 5" (*basic box depth is 5"*)
- ▶ Class 5 balances capable of carrying heavier loads

Options – Sterling Double Hung/XL Sterling Double Hung (custom options are also available)

- ▶ Class 5 balances** available for commercial specifications or larger units
- ▶ Extension jambs (*up to 12" applied, over 12" shipped loose for field application*)
- ▶ Segment head, cottage style segment head, half-circle top, and cottage style half-circle top units†
- ▶ Sash limiters for safety
- ▶ Galvanized steel installation clips
- ▶ Full or half aluminum insect screen with aluminum, BetterVue® or UltraVue® fiberglass mesh; retractable insect screen kit with beveled or square cover
- ▶ Factory-installed Window Opening Control Device (WOCD)
- ▶ High performance or impact performance modifications

NOTE: All measurements are nominal.

* Standard only on units without brickmould.

** Not available on XL Sterling double hung.

† Units may not carry certification. See Kolbe dealer for details.

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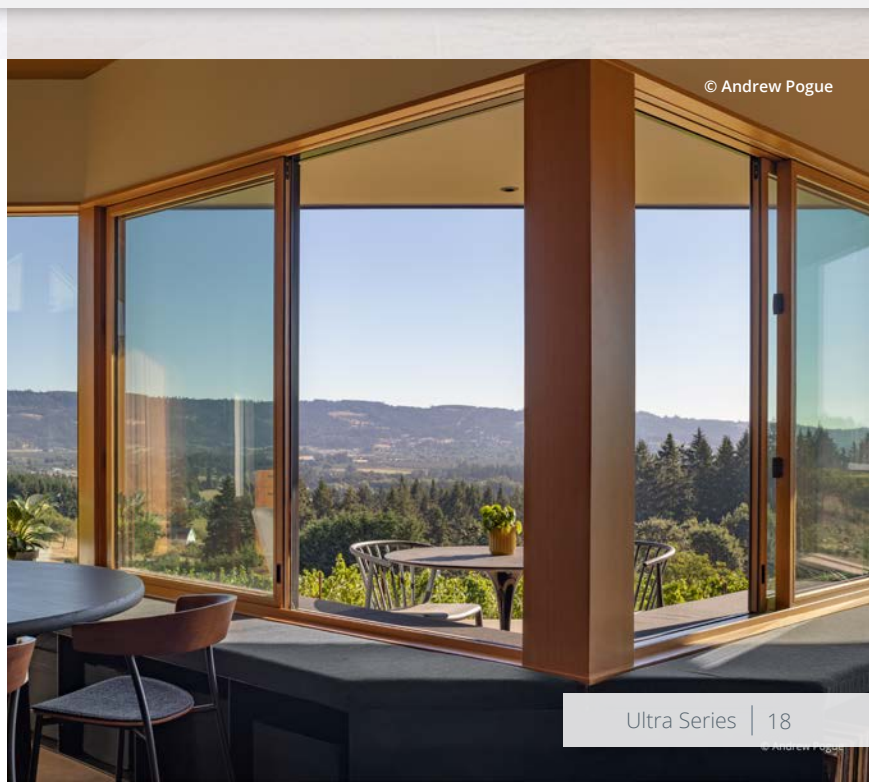


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Folding & Sliding Windows

Kolbe's folding and sliding windows are the perfect solution for projects requiring pass-through service between interior and exterior environments. With options that allow coordination with any architectural style, these windows expand living areas to the outdoors, while maintaining solid performance ratings. Double and triple sliding windows are also available for situations when space is at a premium.

Folding Windows | Single, Double, Triple, & Quad Sliding Windows



© Andrew Pogue

Folding Windows

Folding windows can infuse a room with a remarkable amount of fresh air by offering openings up to 52 feet wide. With up to 8 panels per side, folding windows are highly customizable with a number of different configurations available. These made-to-order windows open up rooms dramatically by extending the living space to the outdoors.



Standard Features

- ▶ 1-3/4" thick sash
- ▶ 6-9/16" minimum jamb depth
- ▶ Stiles and rails are a nominal 3" wide
- ▶ Frame set up for units 177" wide x 77-1/8" tall; all others knocked down
- ▶ Constructed of pine, with pine interior stops
- ▶ Exterior wood parts are treated
- ▶ Extruded aluminum exterior finished with a 70% PVDF fluoropolymer coating *(meets performance requirements of AAMA 2605)*
- ▶ Energy efficient, insulating Solar Low-E glass
- ▶ Glazed to the interior with beveled wood glazing beads
- ▶ Multi-point mortise latch with Toronto handle set in Bright Brass finish on configurations with an access panel
- ▶ Hinge handles standard on most panels
- ▶ Face-mounted flush bolt locking hardware on folding panels
- ▶ Bronze anodized weep sill
- ▶ Grooved guide rollers with adjustable, ball-bearing wheels carry the folding panels
- ▶ Thick oak interior threshold
- ▶ Nailing fins with head drip caps*

Options *(custom options are also available)*

- ▶ Stile and top rail options: 4-5/8" or 6"
- ▶ Bottom rail options: 4-5/8", 6", 7-9/16" or 12-5/8"
- ▶ 2-1/4" thick panel
- ▶ Ovolo and square profile glazing beads and interior divided lite bars
- ▶ Extension jambs in a wide variety of sizes *(shipped loose for field application if over 12")*
- ▶ Galvanized steel installation clips
- ▶ Black pleated retractable insect screen
- ▶ Centor® retractable interior screens and shades in select sizes, configurations and colors
- ▶ Recessed floor track sill *(interior)*, weep or non-weep in Bronze anodized; weep sill in Clear anodized

NOTE: All measurements are nominal.

* Standard only on units without brickmould.

Minimum panel height is 36", minimum panel width is 16", maximum panel height is 72" and maximum panel width is 39-3/8".

Sliding Windows

Sliding windows provide space-saving solutions for expansive openings while offering solid performance ratings. The design incorporates a sleek, extruded aluminum exterior, a refined wood interior, needle-bearing rollers for ease of operation, and easy-to-clean tilt-in sash. Single, double and triple sliding windows best suit situations where space is at a premium, while quad sliding windows are perfect for pass-through applications.



Standard Features

- ▶ 1-15/16" thick sash
- ▶ Overall jamb depth is 4-9/16" (*basic box depth is 4-9/16"*)
- ▶ Constructed of pine, with pine interior stops
- ▶ Exterior wood parts are treated
- ▶ Extruded aluminum exterior finished with a 70% PVDF fluoropolymer coating (*meets performance requirements of AAMA 2605*)
- ▶ Energy efficient, insulating Solar Low-E glass
- ▶ Glazed to the interior with beveled wood glazing beads with no visible fasteners
- ▶ Clay-colored, positive action lock automatically secures window when unit is closed
- ▶ Needle bearing sash rollers for ease of operation
- ▶ Low profile sill with hidden weep system
- ▶ Tilt-in sash for easy cleaning (*not available on units with sash wider than 2'6" and taller than 4'0"*)
- ▶ Center interlock and stiles have matching sightlines
- ▶ Nailing fins with head drip caps*

Options (custom options are also available)

- ▶ Extension jambs (*up to 12" applied, over 12" shipped loose for field application*)
- ▶ Galvanized steel installation clips
- ▶ Window Opening Control Device (WOCD) in Satin Nickel
- ▶ Full or half aluminum insect screen with aluminum, BetterVue® or UltraVue® fiberglass mesh; exterior retractable insect screen kit (*available only on single, triple, and quad units*)

Operational Configurations

Single Sliding Window

- ▶ Active sash (interior sash) can be either left or right
- ▶ Stationary sash placed on the outside track

Double Sliding Window

- ▶ Primary active sash (interior sash) can be either left or right

Triple Sliding Window

- ▶ Operation = Active-Fixed-Active (AFA)
- ▶ Stationary sash placed on the outside track

Quad Sliding Window

- ▶ Operation = Active-Fixed-Fixed-Active or Fixed-Active-Active-Fixed (AFFA or FAAF)
- ▶ Stationary sash placed on the outside track

NOTES: All measurements are nominal.

* Standard only on units without brickmould.

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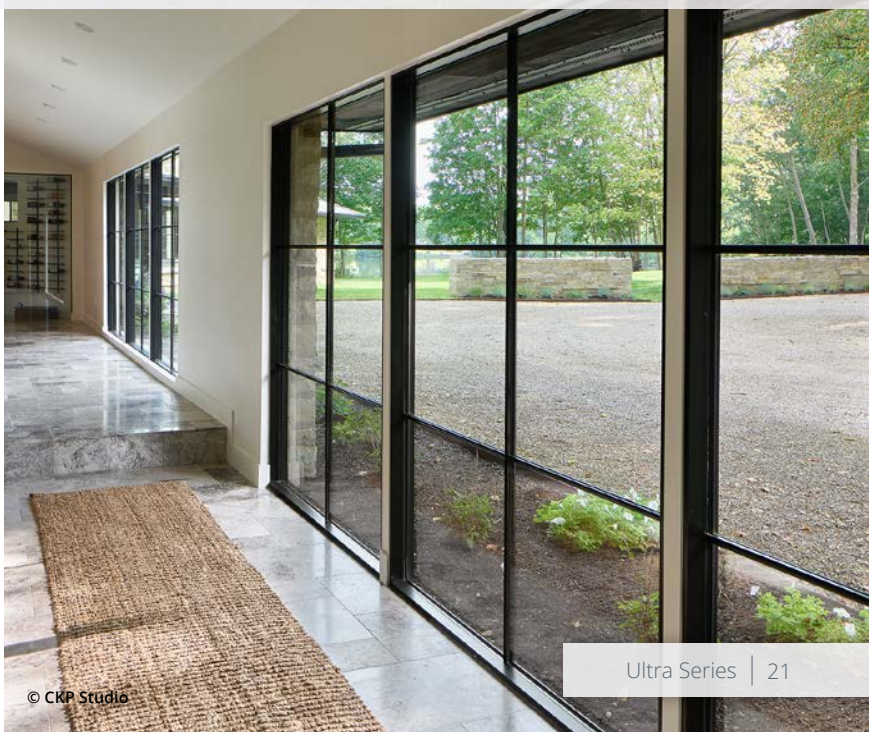


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Direct Sets

When you don't need an operating window, but still want plenty of light to enter your home, direct set windows are an ideal solution. The glass is set directly into the frame to let light in and keep air out, with two distinct profiles to achieve a traditional or contemporary aesthetic. Combine multiple direct sets with venting windows in unique configurations, or create a wall of glass with floor-to-ceiling views. For panoramic views, corner direct sets are available in angles ranging from 90° to 170°, with or without corner posts.

Ogee Direct Sets | Beveled Direct Sets | Beveled XL Direct Sets | Corner Direct Sets



Direct Sets

Direct set windows are ideal for maximizing daylight when venting is not a requirement. The glass is set directly into the frame, allowing a larger opening for passive lighting and views. Direct sets can be combined in numerous configurations, with profiles to match casements, awnings, double hungs or doors. Beveled direct sets provide design flexibility and a contemporary profile, while Ogee direct sets combine historical charm and modern day innovation to offer a store-front profile.



Standard Features – Beveled Direct Sets

- ▶ 2-3/4" overall jamb depth
- ▶ Constructed of pine, with pine interior stops and wood mull casings on mull units
- ▶ Extruded aluminum exterior finished with a 70% PVDF fluoropolymer coating (*meets performance requirements of AAMA 2605*)
- ▶ Energy efficient, insulating Solar Low-E glass
- ▶ Glazing is direct set to the interior
- ▶ Exterior wood parts are treated
- ▶ Nailing fins with head drip caps*

Standard Features – Beveled XL Direct Set (Includes standard features of beveled direct sets, with the exception of the following substitutions)

- ▶ Basic jamb depth of 3-1/4"; matches the same basic jamb as the EP (Energy Performance) Casement
- ▶ 1-3/8" total thickness of triple pane glass with Solar Low-E and Solar Gain Low-E; also available with 7/8" dual pane glass

Standard Features – Ogee Direct Set

- ▶ 2-7/16" overall jamb depth
- ▶ Constructed of pine, with pine interior stops and wood mull casings on mull units
- ▶ Extruded aluminum exterior finished with a 70% PVDF fluoropolymer coating (*meets performance requirements of AAMA 2605*)
- ▶ Energy efficient, insulating Solar Low-E glass
- ▶ Glazing is direct set to the interior
- ▶ Exterior wood parts are treated
- ▶ Nailing fins with head drip caps*

Options – Beveled/Beveled XL/Ogee Direct Set (custom options are also available)

- ▶ Extension jambs (*up to 12" applied, over 12" shipped loose for field application*)
- ▶ Galvanized steel installation clips
- ▶ Extruded aluminum drip cap (*radius units; shipped for field*)
- ▶ High performance or impact performance modifications

NOTE: All measurements are nominal.

* Standard only on units without brickmould.

Corner Direct Sets

With glass set directly into the frame, direct set corner windows offer generous daylight openings, especially when mulled with other windows or doors. Available with or without a post, expect unobstructed views, with clean lines and large expanses of glass.



Standard Features

- ▶ Pine interiors, ready for a variety of finishes
- ▶ Exterior wood parts are treated
- ▶ Extruded aluminum exterior finished with a 70% PVDF fluoropolymer coating (*meets performance requirements of AAMA 2605*)
- ▶ Energy efficient, insulating Solar Low-E glass
- ▶ Glazing is direct set to the interior
- ▶ Nailing fin with additional head drip caps*

Options (custom options are also available)

- ▶ Accessory groove fillers and frame expanders for field application
- ▶ Units available as a kit for easier handling (*requires field assembly and glazing; units too large to ship will automatically be sent as a kit*)
- ▶ Extension jambs (*up to 12" applied on factory-assembled units; shipped loose over 12" and for corner kits*)
- ▶ Galvanized steel installation clips
- ▶ Factory-assembled units with a corner post available in angles of 90° and 135°
- ▶ Factory-assembled units without a corner post available in any angle from 90° to 170°, in whole degree increments (*requires field glazing*)

NOTE: All measurements are nominal.

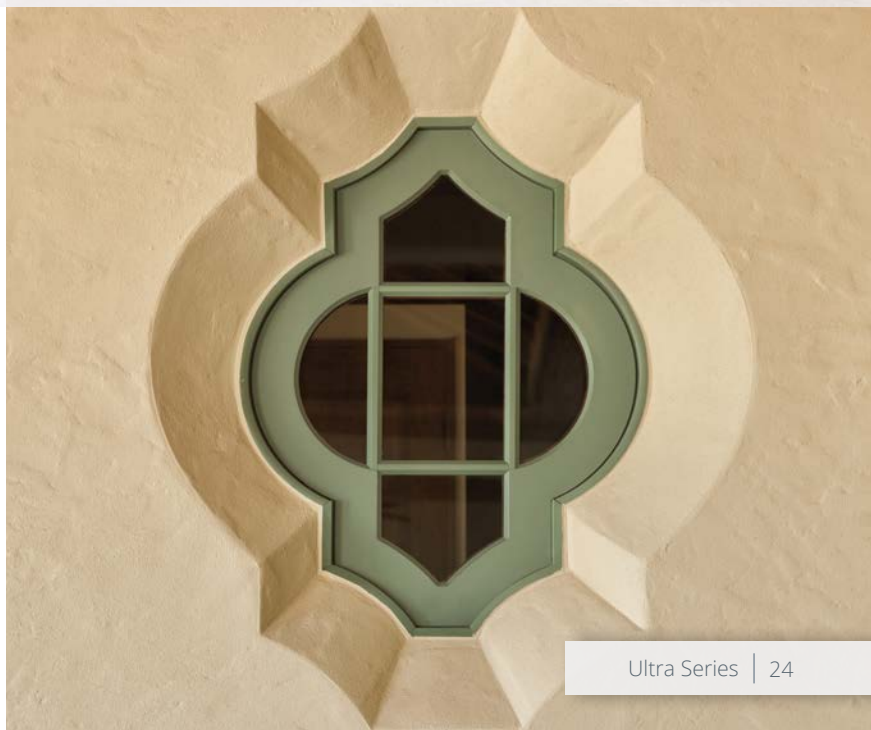
* Standard only on units without brickmould.



Specialty Windows

Ultra Series specialty windows are available in a variety of sizes and styles. Add radius or geometric units to other windows and doors to make a dramatic statement. Half-circle or elliptical units stacked above other Kolbe windows and doors create gracious curves and allow more light to enter your room. Follow the slope of a roofline or comprise a window wall with a variety of angled shapes, from triangles and trapezoids to pentagons, diamonds, or any shape you can imagine.

Radius Windows | Geometric Windows



Radius Windows

Kolbe makes radius windows in stand-alone full circles, half-circles, quarter-circles, ellipticals, ovals and custom shapes. Half-circle or elliptical windows can be stacked over other Kolbe windows and doors to create larger window walls. We build our radius windows to order so that their profiles match those of the windows and doors they complement.



Standard Features

- ▶ 1-3/4" thick sash
- ▶ Overall jamb depth is 4-9/16"
- ▶ 3" straight legs on half-circles
- ▶ Constructed of pine, with pine interior stops and wood mull casings on mull units
- ▶ Exterior wood parts are treated
- ▶ Extruded aluminum exterior finished with a 70% PVDF fluoropolymer coating (*meets performance requirements of AAMA 2605*)
- ▶ Energy efficient, insulating Solar Low-E glass
- ▶ Glazing is sash set to the interior with beveled wood glazing beads
- ▶ Standard radius shapes include quarter-circles, half-circles, full-circles, ovals and ellipticals
- ▶ Nailing fins*

Options (custom options are also available)

- ▶ Glazing may be direct set
- ▶ Extended legs or no legs on half-circles
- ▶ Extension jambs (*up to 12" applied, over 12" shipped loose for field application*)
- ▶ Galvanized steel installation clips
- ▶ Extruded aluminum nailing fin with drip cap on the radius portion of the frame (*shipped for field application*)
- ▶ High performance or impact performance modifications

NOTES: All measurements are nominal.

* Standard only on units without brickmould.

Geometric Windows

Make your design truly distinctive with Kolbe's geometric windows. These angled attention-grabbers create an impactful focal point and accentuate the architectural design. Kolbe can produce various window shapes and sizes, including triangles, trapezoids, parallelograms, octagons, pentagons, diamonds, hexagons, plus custom.



Standard Features

- ▶ 1-3/4" thick sash
- ▶ Overall jamb depth is 4-9/16"
- ▶ Constructed of pine, with pine interior stops and wood mull casings on mull units
- ▶ Exterior wood parts are treated
- ▶ Extruded aluminum exterior finished with a 70% PVDF fluoropolymer coating *(meets performance requirements of AAMA 2605)*
- ▶ Energy efficient, insulating Solar Low-E glass
- ▶ Glazing is sash set to the interior with beveled wood glazing beads
- ▶ Standard geometric shapes include triangles, octagons, hexagons, pentagons, trapezoids, and diamonds
- ▶ Nailing fins*

Options *(custom options are also available)*

- ▶ Glazing may be direct set
- ▶ Extension jambs *(up to 12" applied, over 12" shipped loose for field application)*
- ▶ Galvanized steel installation clips
- ▶ High performance or impact performance modifications

NOTE: All measurements are nominal.

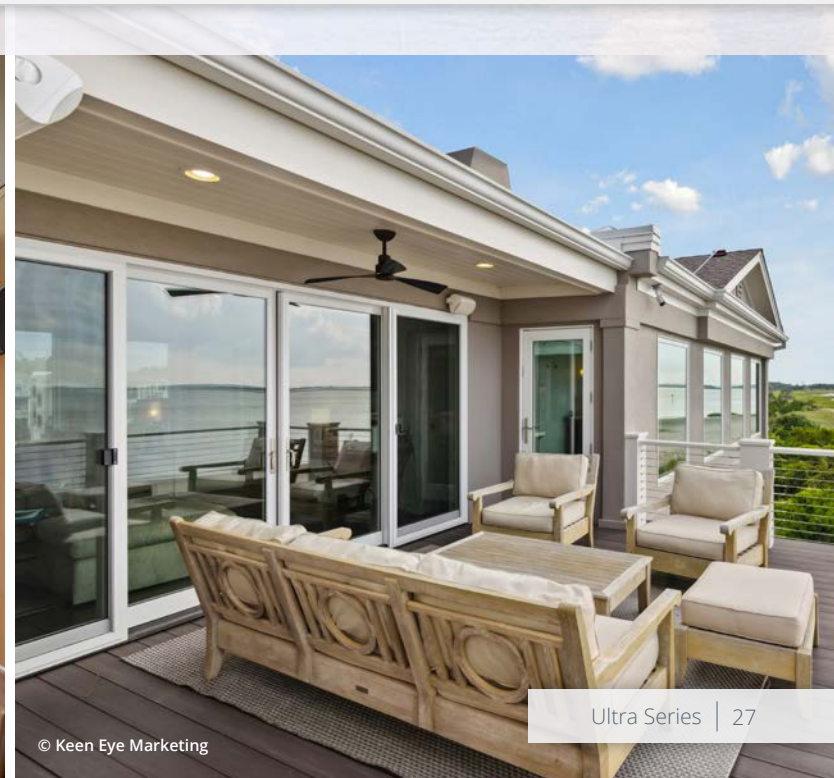
* Standard only on units without brickmould.



Doors: Entrance to Expansive

Whether it's a stunning entryway or a passageway to an outdoor living area, Ultra Series doors bring beauty and elegance to any project. Customize an entry to exemplify your personal aesthetic. Use folding doors, multi-slide doors, or TerraSpan® lift & slide doors to create expansive openings and take indoor-outdoor living to a whole new level. Add interest to your inswing or outswing doors with matching transoms, sidelites or radius units. The ability to coordinate with any décor is simple, with Kolbe's numerous options, finishes, and custom solutions.

*Swinging Doors | Swinging Door Transoms | Pivot Doors | Sliding Doors
Multi-Slide Doors | TerraSpan® Lift & Slide Doors | Sliding Door Transoms | Folding Doors*



Swinging Doors

Whether it's an entrance door or a patio door, Ultra Series swinging doors provide convenient access between spaces. Available as inswing or outswing, for areas with indoor space constraints, these doors are offered as single, double or French units, and can be customized with a corresponding radius, transom or sidelite to allow even more illumination.



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Standard Features – Inswing Doors

- ▶ 1-3/4" thick panel, prehung in a 1-5/16" frame
- ▶ Overall jamb depth is 4-9/16"
- ▶ Stiles and top rails are a nominal 4-9/16" wide; bottom rail is a nominal 7-9/16" high
- ▶ Constructed of pine, with pine interior stops and wood mull casings on mull units
- ▶ Exterior wood parts are treated
- ▶ Extruded aluminum exterior finished with a 70% PVDF fluoropolymer coating (*meets performance requirements of AAMA 2605*)
- ▶ Energy efficient, tempered Solar Low-E glass
- ▶ Glazed to the interior with beveled wood glazing beads
- ▶ Toronto handle set in a Bright Brass PVD* finish
- ▶ Stainless steel multi-point locking hardware on single door panels; French doors have a 3-point lock on the active panel and a 2-point lock on the less active panel
- ▶ Adjustable, 4" x 3-5/8" hinges with 5/8" radius corners in a Gold-Painted finish
- ▶ "Ultra" sliding insect screen with BetterVue® fiberglass mesh and extruded aluminum frame**
- ▶ Bronze anodized aluminum weep sill with an oak interior threshold
- ▶ Nailing fins with head drip caps†
- ▶ Raised panels and/or glass lites

Standard Features – Outswing Doors (Includes standard features of inswing doors, with the exception of the following substitutions)

- ▶ 1-3/4" thick panel prehung in a 1-1/16" frame
- ▶ Non-adjustable, residential, 4" x 4" ball-bearing hinges with 1/4" radius corners in a Bright Brass finish
- ▶ Bronze anodized aluminum bumper sill with oak interior threshold

Options – Inswing/Outswing Doors (custom options are also available)

- ▶ 2-1/4" thick panel
- ▶ 3", 6" or 7-9/16" stile and top rail; 4-9/16", 6" or 10" bottom rail
- ▶ Flat panel
- ▶ 1-wide dutch door with 1-3/4" or 2-1/4" thick panels (*heights up to 8'*)
- ▶ Extension jambs in a variety of sizes
- ▶ Galvanized steel installation clips
- ▶ Hardware prep available for hardware by others
- ▶ Self-closing, aluminum swinging insect screen with spring-loaded lock and a choice of aluminum, BetterVue® or UltraVue® fiberglass mesh (*inswing only*)
- ▶ Centor® retractable interior screens and shades in select sizes, configurations and colors (*outswing only*)
- ▶ Clear anodized weep or bumper sill with oak interior threshold; Oak or Mahogany sill; ADA-compliant sill
- ▶ High performance or impact performance modifications

NOTE: All measurements are nominal.

*PVD (Physical Vapor Deposition) finish is an application over the color which helps protect the finish from tarnishing, peeling, and cracking.

**Available only for inswing doors.

† Standard only on units without brickmould.

¥ 2-1/4" panels only; size limitations apply. Contact your Kolbe dealer for more information. BetterVue® and UltraVue® are registered trademarks of PHIFER INCORPORATED.

Pivot Doors

A unique and elegant option for a wider single door, Kolbe's Ultra Series inswing and outswing pivot doors offer not only larger openings for entrance areas, but increased views and daylight. Ultra Series pivot doors offer up to 5-by-10-foot openings, with clean lines and specialized hardware for smooth operation.

Standard Features

- ▶ 2-3/4" thick panels
- ▶ 6" wide stiles and top rail; 7-9/16" bottom rail
- ▶ LVL stiles for superior strength and stability
- ▶ Pine interiors, ready for a variety of finishes
- ▶ Exterior wood parts are treated
- ▶ Extruded aluminum exterior finished with a 70% PVDF fluoropolymer coating (*meets performance requirements of AAMA 2605*)
- ▶ Energy efficient, insulating tempered Solar Low-E glass
- ▶ Beveled exterior sticking and interior glazing bead
- ▶ Nailing fin with head drip caps
- ▶ Lever style handle set with escutcheon plate or Rockwood® GeoMetek pull handle
- ▶ ADA-Compliant sill* in Bronze Anodized
- ▶ Weather-resistant, multi-point stainless steel operator parts and hardware channels
- ▶ Black weatherstripping

Options (custom options are also available)

- ▶ 4-9/16" or 7-9/16" stiles and top rail; 6" bottom rail
- ▶ Panels available with 10" bottom rail
- ▶ Extension jambs in a variety of sizes
- ▶ Galvanized steel installation clips
- ▶ Hardware prep available for hardware by others
- ▶ Flat panel configurations
- ▶ All wood panel with extruded aluminum clad frame on the exterior



NOTE: All measurements are nominal.

* These options may meet standards of the Americans with Disabilities Act. Certain product limitations and modifications may apply. Please contact your local Kolbe dealer for more information.

Sliding Doors

Sliding doors are a space-saving way to connect your indoor and outdoor living spaces. Slide the doors from side-to-side to operate and create access to the outdoors. Sliding doors are available in various sizes to accommodate new construction or remodeling projects.



Project Credits: Tommy Everson Architect | Near & Streeter Custom Homes | Peter VonDeLinde



Standard Features

- ▶ 1-3/4" thick panel
- ▶ 3" stiles, top and bottom rails
- ▶ Overall jamb depth is 4-9/16"
- ▶ Frame set up
- ▶ Constructed of pine, with pine interior stops and wood mull casings on mullied units
- ▶ Exterior wood parts are treated
- ▶ Extruded aluminum exterior finished with a 70% PVDF fluoropolymer coating (*meets performance requirements of AAMA 2605*)
- ▶ Energy efficient, tempered Solar Low-E glass
- ▶ Glazed to the interior with beveled wood glazing beads
- ▶ Tandem rollers with adjustable ball-bearing wheels carry the sliding panel
- ▶ Single-point mortise latch with handle set in Bright Brass
- ▶ Insect screen with BetterVue® fiberglass mesh and extruded aluminum frame
- ▶ One-piece, pultruded fiberglass sill with continuous aluminum sill nosing and fiberglass sill filler
- ▶ Thick oak interior threshold
- ▶ Black weather stripping and interlocks
- ▶ Nailing fins with head drip caps*

Options (custom options are also available)

- ▶ 1-3/4" thick panel
- ▶ 4-5/8" stiles and top rails; 4-5/8", 7-9/16" or 10" bottom rails
- ▶ 2-1/4" thick panel
- ▶ 3" stiles and top rails; 4-5/8" bottom rail
- ▶ 2-1/4" thick panel
- ▶ 4-5/8" stiles and top rails; 7-9/16" or 10" bottom rails
- ▶ Extension jambs in a wide variety of sizes (*shipped loose for field application*)
- ▶ Automation options
- ▶ Galvanized steel installation clips
- ▶ "Ultra" sliding insect screen with extruded aluminum frame and fiberglass mesh; insect screen with aluminum or UltraVue® fiberglass mesh
- ▶ Centor® retractable interior screens and shades in select sizes, configurations and colors
- ▶ Universal design aluminum sill ramp kits
- ▶ High performance or impact performance modifications

Operational Options

3-Wide Unit

- ▶ Operation = Active-Fixed-Active (AFA)

4-Wide Unit

- ▶ Operation = Fixed-Active-Active-Fixed (FAAF)

NOTE: All measurements are nominal.
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* Standard only on units without brickmould.

Multi-Slide Doors

Multi-slide doors upgrade standard patio door openings by expanding rooms to merge the outdoors with the indoors. Doors can open up to 24 feet wide and 10 feet high, with various stile and rail options and panel thicknesses available. Multiple configurations – including stacking, pocketing and corner units – offer exceptional flexibility.



Standard Features

- ▶ 1-3/4" thick panel
- ▶ Jamb depth is dependent on the number of panels used; interior extension jamb wood species to match interior of panels
- ▶ Stiles and top rails are a nominal 4-9/16" wide; bottom rail is a nominal 7-9/16" high
- ▶ Frame shipped knocked down, prepped for assembly
- ▶ Base frame is constructed of Dark Bronze anodized aluminum with pine interior stops
- ▶ Exterior wood parts are treated
- ▶ Extruded aluminum exterior finished with a 70% PVDF fluoropolymer coating (*meets performance requirements of AAMA 2605*)
- ▶ Energy efficient, tempered Solar Low-E glass
- ▶ Glazed to the interior with beveled wood glazing beads
- ▶ Panel interlock is attached to and is a part of the frame for pocketing systems
- ▶ Narrow flush pull handle is standard on lead panel
- ▶ Dual-point lock
- ▶ Dark Bronze anodized continuous full-width weep sill with stainless steel roller caps (*sill is prepped for water drainage and requires the use of a sill pan; can be set into the floor system for low profile use*)
- ▶ Thermally broken sill and frame
- ▶ Bottom rolling system with precision bearing wheels
- ▶ Folding aluminum nailing fin applied
- ▶ Extruded aluminum filler to cover head track and side jambs
- ▶ Black weather stripping and interlocks

Options (custom options are also available)

- ▶ Stile and top rail options: 3" or 6"
- ▶ Bottom rail options: 4-9/16", 6" or 10"
- ▶ 2-1/4" thick panel
- ▶ Black pleated retractable insect screen
- ▶ Centor® retractable interior screens and shades in select sizes, configurations and colors
- ▶ Automation options
- ▶ Extension jambs in a wide variety of sizes (*shipped loose for field application*)

Operational Options

- ▶ Stacking: one way or bi-parting (*French*)
- ▶ Pocketing: one way or bi-parting (*French*)
- ▶ 90 degree corner (*custom*)
- ▶ Custom degree corners

NOTE: All measurements are nominal.

Both stacking and pocketing frames are available up to a maximum of 24 feet in length. Maximum panel width is 48"; maximum panel height is 120"; maximum number of panels is 10; panels over 96" in height are required to be 2-1/4" thick. 4-5/8" minimum bottom rail is required with 3" stiles. Radius systems are not available.

¥ 2-1/4" panels only; size limitations apply. Contact your Kolbe dealer for more information.

TerraSpan® Lift & Slide Doors

TerraSpan lift & slide doors stack or pocket up to ten door panels for extremely expansive openings. They successfully merge outdoor areas with indoor living spaces for up to 60 feet of panoramic views. Over 900 operational configurations provide endless possibilities, with glass, finishes and hardware options for a customized opening to meet your needs.



Standard Features

- ▶ 2-1/4" thick panels with end caps to match color or wood species
- ▶ Panels can pocket into a wall or stack together; 90° corner units are also available*
- ▶ 4-5/8" stiles and rails provide a large glass area
- ▶ Extruded aluminum exterior finished with a 70% PVDF fluoropolymer coating *(meets performance requirements of AAMA 2605)*
- ▶ Energy efficient, tempered Solar Low-E glass
- ▶ Glazed to the interior with a beveled wood cover
- ▶ Traditional coped stile and rail joints on both the interior and exterior
- ▶ Thermally broken fiberglass core frame and panels, finished on the interior with a solid wood cover
- ▶ Stainless steel multi-point locking hardware channels
- ▶ provide corrosion resistance and increased security
- ▶ Wheel sets are constructed of 300 series stainless steel to provide superior corrosion resistance *(drive bars, wheels, hubs and shafts, rivets, drive pins and link rods)*
- ▶ Panels available 30"-72" in width and 36"-144" in height
- ▶ LS100 removable handle set in Rustic Umber
- ▶ Black anodized flush mount weep sill is thermally broken with 1/2" roller cap height
- ▶ Pocket cover for all pocket doors
- ▶ No visible fasteners: glazing bracket is interlocked and screwed from the interior side of the core and hidden by the interior wood panel cover
- ▶ Up to 10 panels in a system

Options *(custom options are also available)*

(custom options are also available)

- ▶ Automation options
- ▶ 180° Inset Handle
- ▶ Pre-installed jamb jacks with color matched screw covers
- ▶ Interior flush sill nosing extensions
- ▶ 8-11/16" bottom rail height to match daylight opening of other Kolbe products
- ▶ 12" bottom rail height for meeting ADA compliance
- ▶ Phantom® motorized executive insect screen; Genius® insect screen; Centor® insect screen; black pleated accordion insect screen
- ▶ Centor® retractable interior screens and shades in select sizes, configurations and colors
- ▶ Black anodized recessed sill *(weep or non-weep)* with 1/2" roller cap height; flush mount non-weep sill
- ▶ High performance or impact performance modifications *(limited configurations)*

NOTE: All measurements are nominal.

* Curved units are also available. Contact your Kolbe dealer for further information about these and other available options.

Units with panel sizes wider than 72" and/or taller than 144" are available on a project-by-project basis, subject to review.

Folding Doors

Breathe in fresh air, add architectural interest, and merge outdoor and indoor spaces with folding doors that swing out, fold to one side, or split and fold to either side. With up to 8 panels per side, folding doors allow massive views up to 45 feet wide – plus 90° custom corner configurations.



Standard Features

- ▶ 1-3/4" thick panels
- ▶ 6-9/16" minimum jamb depth
- ▶ Stiles and top rails are a nominal 4-9/16" wide; bottom rail is a nominal 7-9/16" high
- ▶ Frame set up for units up to 177" wide x 106" tall; all others knocked down
- ▶ Constructed of pine, with pine interior stops
- ▶ Exterior wood parts are treated
- ▶ Extruded aluminum exterior finished with a 70% PVDF fluoropolymer coating (*meets performance requirements of AAMA 2605*)
- ▶ Energy efficient, tempered Solar Low-E glass
- ▶ Glazed to the interior with beveled wood glazing beads
- ▶ Multi-point mortise latch with Toronto handle set in a Bright Brass PVD* finish on configurations with an access panel
- ▶ Hinge handles standard on most panels
- ▶ Face mounted flush bolt locking hardware on folding panels
- ▶ Bronze anodized aluminum weep sill
- ▶ Grooved guide rollers with adjustable, ball-bearing wheels carry the folding panels
- ▶ Thick oak interior threshold
- ▶ Nailing fins with head drip caps**

Options (custom options are also available)

- ▶ Stile and top rail options: 3", 6" or 7-9/16"
- ▶ Bottom rail options: 6" or 10"
- ▶ 2-1/4" thick panel
- ▶ Extension jams in a wide variety of sizes (*shipped loose for field application if over 12"*)
- ▶ Galvanized steel installation clips
- ▶ Black pleated retractable insect screen
- ▶ Centor® retractable interior screens and shades in select sizes, configurations and colors
- ▶ High performance or impact performance modifications (*limited configurations*)

NOTE: All measurements are nominal.

* PVD (Physical Vapor Deposition) finish is an application over the color which helps protect the finish from tarnishing, peeling, and cracking.

** Standard only on units without brickmould.

When folding doors are ordered with 3" stiles and panel size is larger than 8', panel thickness must be 2-1/4"

¥ 2-1/4" panels only; size limitations apply. Contact your Kolbe dealer for more information.

Professional Tools

Kolbe prides itself on offering the tools and resources architects, builders and other industry professionals need to complete their projects. From product specifications and 3D models to continuing education courses and webinars, Kolbe supports all of your project needs.



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 our interactive showrooms filled with product displays and custom solutions.

kolbewindows.com/virtual-showroom



Architect Library

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

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

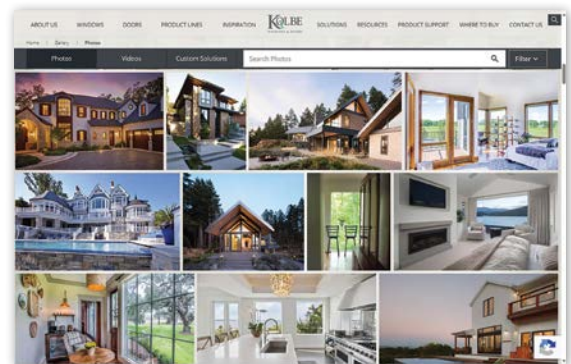
Additional resources include:

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

Inspiration Gallery

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

kolbewindows.com/gallery





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