



ecoSmart

Windows and Patio Doors





For over 35 years, the Great Lakes® Window has been focused on our customers' needs to ensure that every one of our hand-crafted windows and patio doors are energy efficient and reliable. Whatever your style, we can create a custom window that complements your home.

One of the greatest benefits to you as a homeowner when choosing the Great Lakes Window is our dealer network. We only work with respected professionals who are committed to helping you find the window or door that fits your unique style. When you work with a Great Lakes Window dealer, you can expect a consultative, helpful resource. And, because each dealer is local, you can be sure they will take regional factors, like climate, into account when helping you make a decision.



## Our Commitment

Our warranty covers your entire window for life and transfers to a new homeowner one time if you choose to move.

*See full warranty for details.*



# Your Guide to Performance

Choices you should consider to keep in mind when considering energy-efficient windows for your home.



## Panes of Glass

Two or three panes of glass decreases the amount of temperature transfer from outside your home.



## Glass Coatings

Thin, virtually invisible Low-E metallic coatings on the glass surface reduce heat transfer and protect against UV rays.



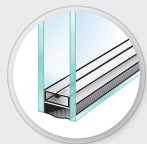
## Insulation

Optional material fills cavities within the frame and sash to improve the efficiency of your windows.



## Gas Fill

Non-toxic gases inserted between the glass panes, instead of air, help further insulate the window and increase efficiency.



## Spacer Systems

Spacers separate and secure the glass panes to optimize the performance and structure of the glass pack.



## Sound Transmission

Options like thicker glass, asymmetrical construction and high performance interlayers help keep your home quiet even if it's loud outside.



## Vinyl

UI Vinyl does not peel or chip like painted wood windows, requiring less maintenance over time.

## The Difference of ecoSmart

The moment ecoSmart windows are installed in your home, you don't just see the difference, you feel it. You're welcomed by beautiful views that no longer let you down in harsh winters and sweltering summers. And while energy bills become lower than ever, you'll feel safe and sound in the sanctuary you call home.

There's a lot to like about our windows, but some of our finest features can't be seen. Look a little closer at the many benefits provided by one of the best-performing, longer-lasting windows – ecoSmart.



# Performance Features



## SmartCore Insulation

This insulation provides almost two times the insulating properties of typical fiberglass insulation, making ecoSmart windows more efficient and your home more comfortable.

## EcoCore Insulation (Optional)

Available as an option, our full composite reinforcement is used throughout all frame and sash cavities. It is fusion welded with the frame and sash for optimal strength, durability and thermal properties.



## EnergyGuard and SmartGuard Glass

Each of our windows and doors is available with special combinations of Low-E coatings, gas fills and multiple panes of glass to keep your home comfortable, no matter where you live.

**energyGUARD** **SMARTGUARD**



## Fusion-Welded Frames

The welded corners of our windows and door panels keep them strong and weather-tight year-round.



## Efficient Spacers

Our spacer systems help keep panes secure and improve window performance. Choose EnergyEdge, EnergyEdge+ or EnergyTek to make your glass packs even more efficient.



# Save Energy with Every View.

If you're dealing with drafty windows, temporary solutions like sealants and weatherstripping won't keep your home comfortable for long. ecoSmart windows will seal out unwanted cold and heat, saving you a bundle on heating and cooling costs. So while Mother Nature stays out, you stay safe and sound all year-round.

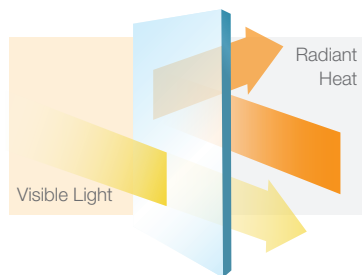
## Highly efficient windows with high standards.

ecoSmart windows are built to resist the heat and cold, offering four-season comfort. Need proof? We meet or exceed the current standards for ENERGY STAR® Version 6.0 requirements in all 50 states and can exceed requirements for the Northern Zone, by up to 48% with select glass packages.

Windows with a low U-Factor and a low Solar Heat Gain Coefficient rating help to provide comfort all year long. Below are four common ratings that are provided for windows certified by the National Fenestration Rating Council (NFRC), the American National Standards Institute (ANSI) and the American Architectural Manufacturers Association (AAMA). These are some of the same ratings that are used to certify products.

### ➤ U-Factor

A measure of the rate of heat flow through a window. The greater a window's resistance to heat flow the better its insulating properties. A lower U-Factor indicates a higher performing window that can help reduce heating and cooling costs.

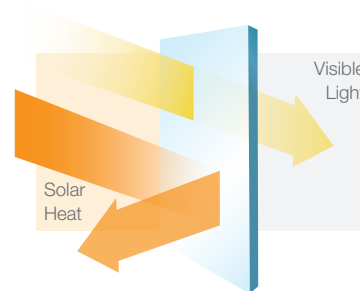


### ➤ Visible Light Transmittance (VT)

The measure of how much light passes through a window.

### ➤ Solar Heat Gain Coefficient (SHGC)

The amount of solar radiation allowed to pass through a window. The lower the number, the less solar heat gain the window permits.



### ➤ Structural-Design Pressure (DP)

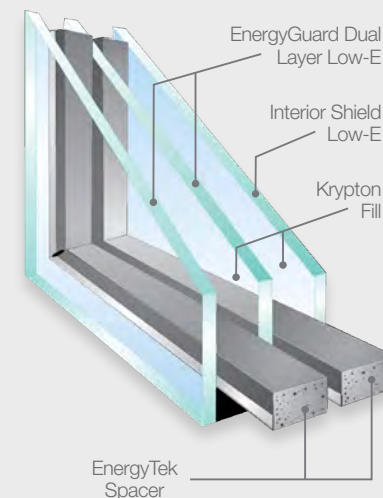
The amount of wind pressure a window will withstand when closed and locked.

## Top Performing Glass Packages

Based on double hung window configuration

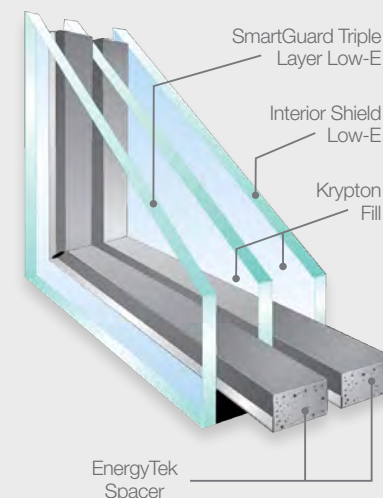
### ➤ EnergyGuard 3<sup>KR</sup> IS

0.14 (U-Value) 0.21 (SHGC)



### ➤ SmartGuard 3<sup>KR</sup> IS

0.17 (U-Value) 0.18 (SHGC)





A person is shown from the back, in silhouette, pulling back a large, sheer, light-green curtain. The curtain is translucent, allowing bright light to filter through. Behind the curtain, a vast, lush green landscape is visible, featuring rolling hills and dense vegetation. The scene is captured in a cinematic style with high contrast between the dark silhouette and the bright light from the window.

Make your home  
beautiful inside and out.

# Keep Interior Colors Bold and Bright.

Letting in a little sunshine is great – until it fades everything inside your home. Our windows feature spectrally selective Low-E coatings that let in the sun's light while reducing fading by partially reflecting damaging UV rays and acting as a sunscreen for furnishings and floors. The result is a more comfortable home year round.

## Efficient Glass Design

Double- or triple-pane glass units with our high-performance Low-E coatings make our windows more energy efficient. For maximum insulation opt to fill the air space between the panes with argon gas.

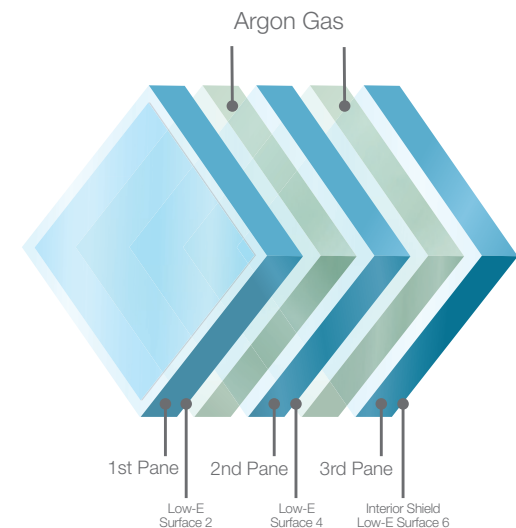
## Low-E Options

With Low-E coating options, ecoSmart windows work to your advantage throughout every season. If you live in a Northern climate zone, EnergyGuard glass systems can keep your home comfy and can help lower heating bills in the winter. How? By allowing some of the sun's heat energy to enter the home to provide passive and free home heating while reducing the heat that escapes from the home.

The same goes for keeping cool in the summer heat. Instead of blocking out the sun with dark drapes or blinds, our Low-E coatings block the sun's damaging rays and reflect heat, keeping your sunny rooms more comfortable. In fact, our glass insulation and Low-E coatings can block the majority of the sun's damaging UV rays. That means more protection from fading for your furnishings, carpets and floors and more comfort for you.

### EnergyGuard 3 IS or EnergyGuard 3KR IS

One lite of Low-E is applied to the inside of the 1st and 2nd panes, and one lite of Interior Shield is applied to the inside of the 3rd pane.

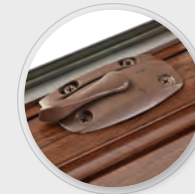






# Double Hung Windows

These windows are popular for multiple reasons. Why? Classic style, great performance and easy to use. Their ability to easily open at the top and bottom allows for better ventilation and airflow. Both top and bottom sash tilt in for effortless cleaning and the screens are removable from inside the home. But with ecoSmart's added energy efficient features, they're more than a popular choice; they're a smart investment.



## Locking System

Sleek cam-action sash locks on double hung windows provide security and performance without compromising beauty.



## SmartCore

This high-density insulation provides a NFRC determined R-Value of 7.25 per inch of thickness. ecoCore available as an option.



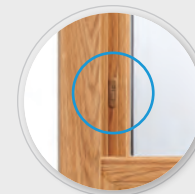
## RigidCore

Our double hung window features RigidCore at the meeting rails for unsurpassed strength and durability.



## Weatherstripping

Weatherstripping on all primary frame and sash points provides a superior seal to keep your home comfortable year round.



## Ventilation Limit Latches

Ventilation limit latches are standard and provide added security while open.

*Passes ASTM F 588-97 (Grade 10) forced-entry resistance.*





# Sliding Windows

Beautifully frame a view or brighten up a room with our sliding windows. Both sashes slide open horizontally with a push of a finger and lift out for easy cleaning. With woodgrain options and decorative grille choices, you can give these windows an especially unique look.



## SmartCore

This high-density insulation provides a NFRC determined R-Value of 7.25 per inch of thickness. ecoCore available as an option.



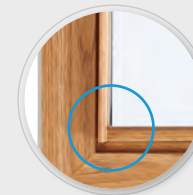
## RigidCore

Our sliding window features RigidCore at the meeting rails for unsurpassed strength and durability.



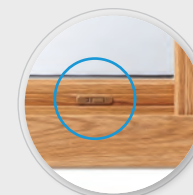
## Rollers

Sliding windows feature a heavy-duty roller system that enables windows to glide open with ease.



## Pull Rails

Installed on left and right sides for ease of operation.



## Ventilation Limit Latches

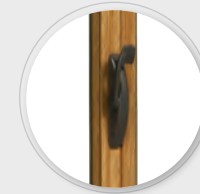
Ventilation limit latches are standard and provide added security while open.

*Passes ASTM F 588-97 (Grade 10) forced-entry resistance.*



# Casement & Awning Windows

You won't find a better casement or awning window out there. These are excellent for views above kitchen sinks. They easily open outward and close tightly with folded operating handles that never interfere with shades or blinds. A great choice for contemporary and traditional homes alike.



## Multi-point locking system

locks your windows at multiple critical points



## Handles and Locks

Both casement and awning windows come standard with unique fold-away nesting handle and matching locks.



## Weatherstripping

Triple weatherstripped sash provides extra protection against dust, dirt and noise.

\* Two, three or four multi-point locks come standard with all casement windows. The number of locks is dependent on the window height.

## Hopper Windows

Great for basements, hopper windows are hinged at the bottom and open inward at the top to increase ventilation and natural light.





# Picture & Shape Windows

From rectangles to trapezoids, to custom radius designs, our picture windows come in a variety of shapes and sizes that enhance the personality of your home while providing superior energy efficiency. For an extra touch of character, add gorgeous Designer glass.



Visit our website, **GreatLakesWindow.com** to see all of our picture, shape and designer glass options.

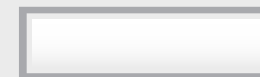
## Shaped Window Examples



Extended Half-round



Ellipse



Rectangle



Square



Custom Shapes Available



Octagon



Full Round



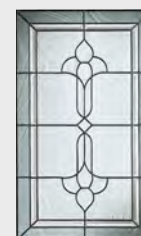
Triangle



Half Circle

## Designer Glass

Add another layer of beauty to your picture and shape windows with our 12 designer glass options that can be fully customized to match the style of your home.



Covington



Somerton



Stanton

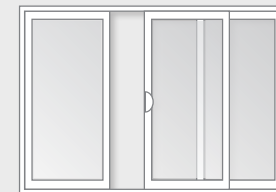
# Sliding Patio Doors

Our sliding patio doors open up a world of possibilities for your home. They glide open smoothly, a feature you'll appreciate when you're going in and out with your hands full – and close tight with a reassuring three-point locking system for total peace of mind.

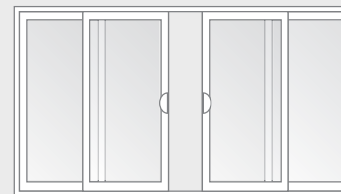
## Configuration Options



Two panel widths: 5', 6', 8'



Three panel widths: 9', 12'



Four panel widths: 10', 12', 16'

Panel heights: 6'8", 6'10", 8'

*All widths and heights are customizable.*

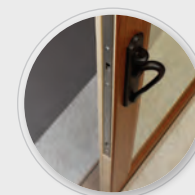
## EuroGlide® Operating System

Upgrade to the EuroGlide operating system and never struggle to open and close your patio door again. The EuroGlide patio door completely lifts off the sill each time you open it to eliminate all friction and allow the door to slide with ease.

*Door mechanisms, including locking system and threshold differ from those used within Premier Sliding Patio Doors.*



Moving the handle 180° actually lifts the door off the sill, enabling it to glide effortlessly.



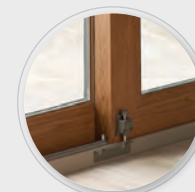
### Unique three-point locking system

secures doors at critical points and increases security. Also available in single or dual locking systems



### Fiberglass threshold

adds strength and resists frost and condensation to keep doors operating like new



### Footbolt lock

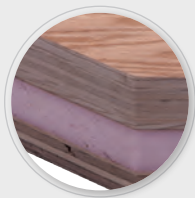
optional to increase security and peace of mind – even while doors are open





## Bay & Bow Windows

Our bay and bow windows are available in a wide range of styles and are custom made for a perfect fit whether you're replacing a bay or bow window, or want to install one in a large window opening.



### Seat Insulation

Our bay and bow seats feature a multi-layer construction which consists of two layers of structural support as well as a layer of 3/4" closed-cell insulating foam for premium insulation. The interior is finished with a birch veneer hardwood cap, or can be upgraded to oak.

### Corian® Solid Surface Seat Options



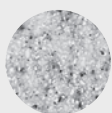
Cameo White



Beach



Sandstone



Dusk



## Garden Windows

Love growing herbs, flowers and plants in your home? Then put them somewhere they can thrive. They let light in on all four sides. And they feature casement-style sidelites that let fresh air in and keep cold temperatures out.



### Handles & Locks

Garden windows come standard with folding operator handles and matching locks. Choose from multiple hardware finishes for a sleek look.

### Interior Frame Head, Seat & Jamb Options

Laminated Interior Options

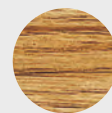
Stained Head and Seat Options



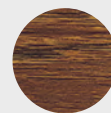
White



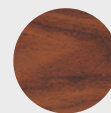
Beige



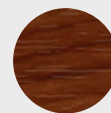
Golden Oak



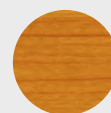
Natural Oak



Colonial Cherry



Rosewood

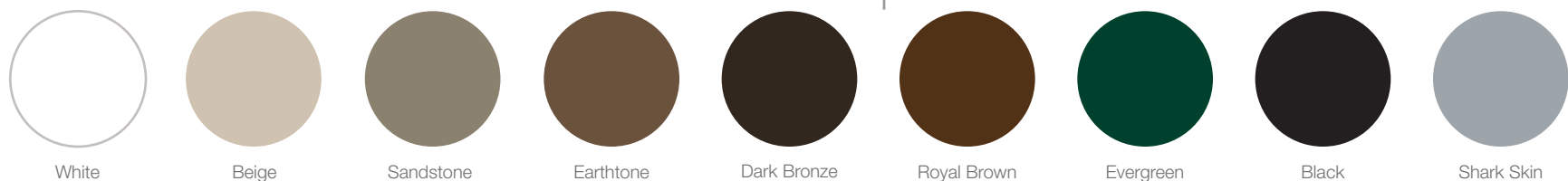


Warm Maple

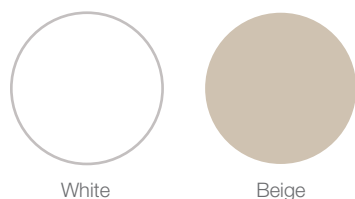
# Your Guide to Customization

Make each window and patio door your own with a wide range of style options. Whether you want to match your home's current style or create a bold new look, the right style selections can go a long way.

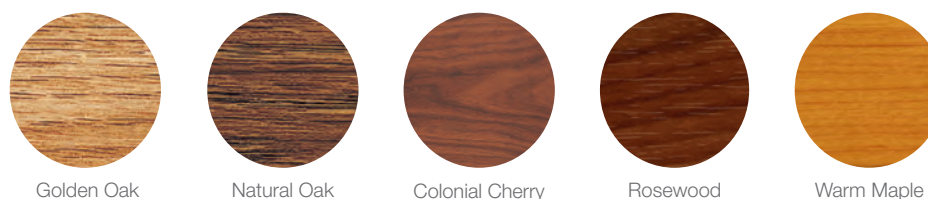
## Exterior Colors



## Interior Colors



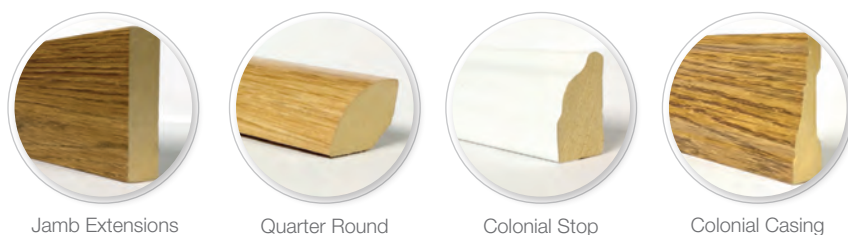
## Woodgrains



*All interior colors and woodgrains cannot be combined with all exterior colors. Colors are reproduced as accurately as print technology allows. Please see your Great Lakes Window dealer for actual samples.*

## Trim Accessories

Give your installed window a polished look with our matching trim and jamb extensions. We use the same color process for trim that we do for windows.



*Available in Primed Pine, Clear Pine, Cellular PVC, and InfiniTrim Interior Moulding (Interior moulding in Golden Oak, Natural Oak, Colonial Cherry, and Rosewood)*

## Window Screens

Our windows come standard\* with FlexScreen, the world's most flexible screen. Easy to use and easy to clean FlexScreen springs into the opening, making installing and removing our screens easy. And the low-profile design allows water to cascade over the screen frame, making cleaning a snap.

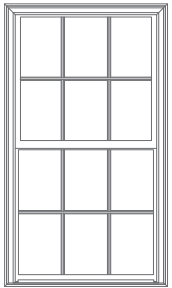
*\*Not available in casement windows*



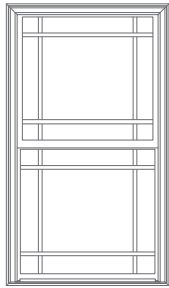


## Grille Styles\*

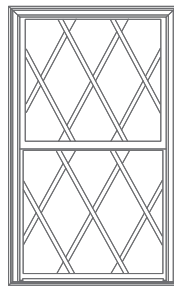
Looking for a way to accentuate your home's architectural style? Grilles can help create a traditional or contemporary look.



Colonial



Perimeter Prairie



Diamond

\*Visit [GreatLakesWindow.com](http://GreatLakesWindow.com) for all grille style options

## Grille Types

ecoSmart windows are available with two different grille types: Grilles Between the Glass (GBG), which allow for easy cleaning, and Simulated Divided Lite (SDL) mounted on the outside of the glass, which create a more traditional look.



5/8" Classic



11/16" Williamsburg



7/8" Simulated  
Divided Lite

## Window Hardware Finishes

With ecoSmart it's easy to choose a hardware finish for your window that complements the other hardware in your home.



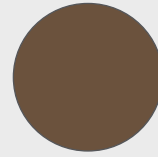
White



Beige



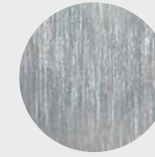
Pontiac Gold



Earthtone



Classic Brass



Satin Nickel



Bronze



## Door Handle Finishes

Color coordinate your interior and exterior patio door handlesets to match your décor.

### Standard Handlesets



White Beige Bronze

### Upgraded Lock & Key Handlesets



Satin Nickel Bronze Classic Brass

### Premium Upgraded Handlesets



Satin Nickel Oil-Rubbed Bronze Classic Brass

### EuroGlide Handlesets



White Brushed Nickel Resista Brass Rustic Umber Black

*Not all hardware finishes can be combined with all customization options. Please see your Great Lakes Window dealer for specific guidelines.*



**GREAT LAKES® WINDOW** | 30499 Tracy Road | Walbridge, OH 43465 | 844.247.6226 | [GreatLakesWindow.com](http://GreatLakesWindow.com)