



Smart Choices.  
Dependable Solutions.

**HARBOR**  
LIGHT



Solutions you can trust  
now and into the future.



# Contents

6	.....	Designed to Deliver
8	.....	Energy Savings
11	.....	Sun Control
12	.....	Sound Control
<hr/>		
15	.....	Custom-Made Windows
16	.....	Double Hung Windows
18	.....	Sliding Windows
20	.....	Casement & Awning Windows
22	.....	Picture & Shaped Windows
23	.....	Sliding Patio Doors
<hr/>		
24	.....	Glass Options
25	.....	Color, Grilles & Frame Options
26	.....	Standards & History





The Great Lakes® Window brand is a leading manufacturer of high-performance replacement and remodeling windows. With a past deeply rooted in forward thinking, we deliver quality products by working with well-known and respected dealers who are driven to bring homeowners the best windows on the market.

Our premium window and door products are individually hand crafted and custom made to specifically fit your home. We use state-of-the-art technology, modern equipment, and cutting-edge operational techniques to give you the best, high-performing windows in the industry. With proven expertise in vinyl and glass technology, we not only bring you better views, but also peace of mind that lasts long into the future.





# Views that meet your expectations.

Imagine windows specifically designed to create the welcoming atmosphere you've always wanted. You and your family are safe and secure. You're cozy through every season. Nights are quiet, and days are peaceful. Even your energy bills are lower. There are so many benefits wrapped up in HarborLight windows, and they're ready to make your home a personal sanctuary.

# Windows designed to deliver.

You won't get the full effect of a HarborLight window just by seeing its exterior. Look a little closer and you'll find many benefits working together to create a safe and sound home.

## Benefits that endure.

For as long as you live in your home, we give your windows full protection with our Limited Lifetime Warranty\*. Our warranty covers the frame, sash, glass seal failures, hardware, screens and more.



\*Restrictions apply; please see the full HarborLight warranty for complete details.





## Glass Solutions

### ▶ Performance Glass Options

The sealed insulating glass is the heart and soul of this engineered window solution. You'll find a wide selection of options in both EnergyGuard and SmartGuard glass packages to meet your needs, bringing you beautiful views, and a comfortable home year round. To learn more, see page 24.

### ▶ Optimal Performing Spacer

While the glass package is the heart and soul, the patented spacer system options provide the foundation for premium performance and structural integrity. Choose EnergyEdge or EnergyEdge+ to create a window that makes your home more energy efficient.

## Added Strength

### ▶ Fusion-Welded Frames

The frame and sash on HarborLight windows are 100% fusion welded for superior sealing against air and water infiltration. To ensure long-term performance, screws or mechanical fasteners are never used.



## Extruded Screens

Extruded aluminum screens are removable from inside the home for easy cleaning. Available in half or full screens.



Fiberglass Mesh comes standard and Aluminum Mesh, Solar Block Screen, Optimal Viewing Screen and Pet Resistant Screen (patio doors only) are also available as an option.

## Sleek Cam-Action Lock

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



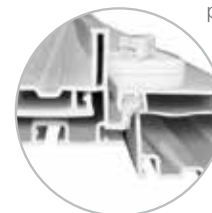
## SureLok Sill

Our SureLok sill incorporates a sloped design with a hidden, integrated interlock that securely locks the sash into the sill. This unique locking design keeps the weatherstripping intact to ensure lasting durability and enhanced weather-tight performance.



## Integral Interlock System

Our double hung and sliding windows provide protection against air infiltration and make windows more secure.



# Great homes deserve great windows.

If you're dealing with drafty windows, temporary solutions like sealants and weatherstripping won't keep your home comfortable for long. HarborLight 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.



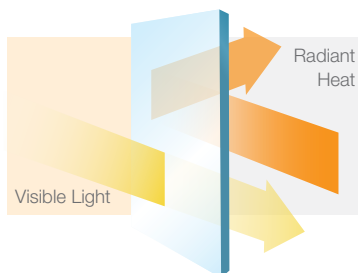
## Highly efficient windows with high standards.

HarborLight 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 the requirements for the Northern Zone 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.

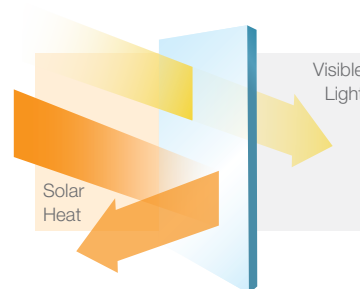
### ▶ U-Factor

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.



### ▶ 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.



### ▶ Visible Light Transmittance (VT)

The measure of how much light passes through a window.

### ▶ Structural-Design Pressure (DP)

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







Set your sights  
on efficiency.



Higher energy efficiency.  
Lower energy bills.

# 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

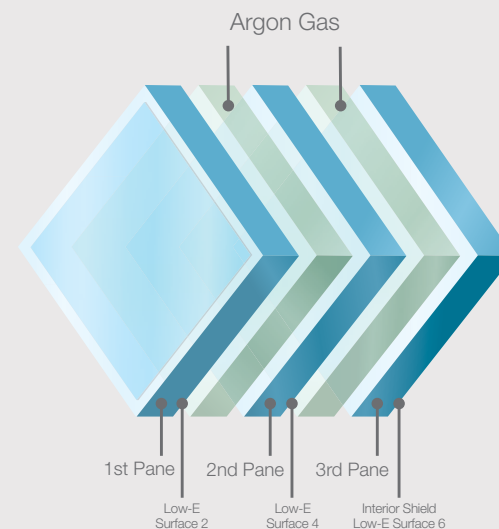
With Low-E coating options, HarborLight windows work to your advantage throughout every season. If you live in a Northern climate zone, EnergyGuard glass systems can keep your home comfy and can help lower heating bills in the winter. How? By allowing some of the sun's heat energy to enter the home to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

To find out more about EnergyGuard and SmartGuard glass packages, and how you can maximize your energy performance, see page 24.

### EnergyGuard 3 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.





# Volume control for the outdoors.

Traffic. Barking dogs. Booming nightlife. There are thousands of things that can interrupt the peace and quiet of your home. But with the right windows, you can easily help keep the noisy world outside.

## Best in Sound Transmission Class (STC)

The most widely recognized measurement for sound control is STC. Generally, the higher the number the more effective a window is at preventing outside noise from entering your home. While standard windows are rated at 26 or less, HarborLight sound control glass offers up to a STC rating of 34\*. If it's peace and quiet you're looking for, our windows deliver.

\* STC rating is based on glass package

## 4 Ways Our Insulated Glass Units (IGU) Block Out Noise:

### Thicker Glass

Like a thick wall, thicker glass in our IGUs helps to reduce sound better than thin glass. You can upgrade the thickness of your glass on any of our glass packages to reduce outside noise.

### Asymmetric Construction

Glass panels of different thicknesses in our IGUs block a greater range of sound waves than panels of the same thickness. One panel blocks low frequency sounds and the other blocks high frequency sounds.

### Laminated Glass

Specifying laminated glass in HarborLight windows helps to absorb sound waves to prevent sound traveling through the glass.

### Wider Air Space

The air space between our glass panels also helps block sound. The wider the air space, the better.

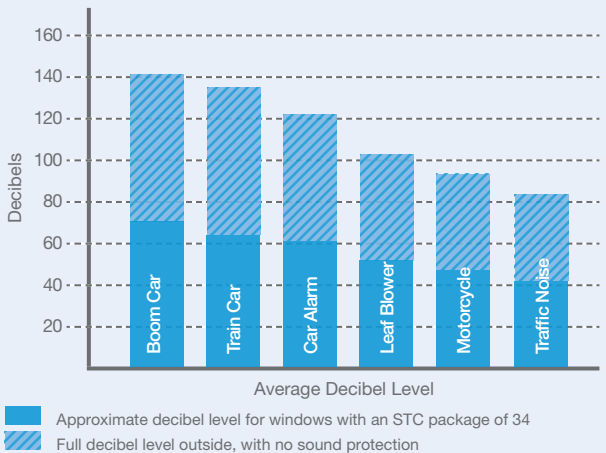
## How much of a difference does a change in ratings make?

Higher STC ratings mean better sound control. A small change in the STC rating can make a big difference.

Change in STC Rating	Change in Apparent Loudness
+1	Almost imperceptible
+3	Just noticeable
+5	Clearly noticeable
+10	Reduces to half as loud

## Noise Levels

A window with an STC rating of 34 can reduce exterior noise by 43%, bringing many loud outdoor noises down to a comfortable level, which is typically rated around 60 decibels. A noise reduction of 10 decibels cuts noise levels in half.





Enhance the sound  
of peace and quiet.





Custom fit  
for your style.





## Bring out the beauty of your home.

Whatever your taste, you'll find a HarborLight window to match. You can easily create the look you want with energy efficient features that keep your home comfortable year-round.

### ➤ Beautify with style.

Your windows don't just have to perform well, they can be beautiful, too. HarborLight windows have several grille and privacy glass options to fit your preference. You can also create an impact with distinctive shapes, bold picture windows or a combination. Whatever you choose, we have a wide range of styles that are sure to fit your design preference perfectly. Explore them on the following pages.

### ➤ Get the perfect fit.

Leaks, drafts and even noise can easily enter your home when windows and patio doors don't fit your home precisely. That's why every window we make is custom built to your home's exact specifications. They seal out the elements and bring down your energy bills so you can enjoy savings that allow you to spend your money on more important things.

See the variety of beautiful and durable styles.

Double Hung Windows..... 16

Sliding Windows..... 18

Casement & Awning Windows.... 20

Picture & Shaped Windows ..... 22

Sliding Patio Doors ..... 23

# HARBOR LIGHT

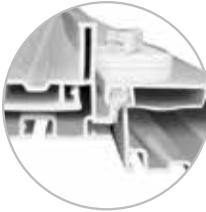
# Double Hung Windows

Double Hung windows are the most popular window style because they are extremely versatile and can complement nearly any home style. Both the top and bottom sash tilt in, making it easy to clean from the inside of the home. And because both sashes operate, a double hung window makes it possible to control the airflow by venting at the top or bottom.



## Locking System

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



## Integral Interlock System

Integral locking system provides protection against air infiltration and makes windows more secure.



## Unique SureLok Design

A sloped sill design with a hidden, integrated interlock system, securely locks the sash into the sill. This unique locking design keeps the weatherstripping intact for weather-tight performance.



## 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.



## Child Safety Latches

Optional child safety latches make it easy to control and limit a window opening to help prevent falls.





## Integral Interlock System

Integral locking system provides protection against air infiltration and makes windows more secure.



## Pull Rails and Rollers

Extruded pull rails are installed on left and right sides for ease of operation. Our heavy-duty roller system enables windows to glide open with ease.



## Locking System

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



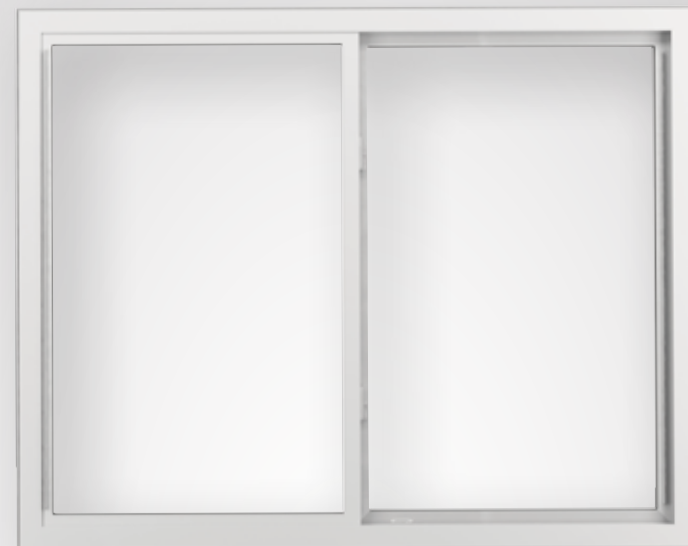
## Ventilation Limit Latches

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



## Weatherstripping

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



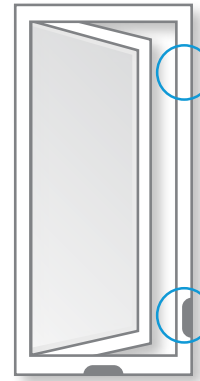
# Sliding Windows

For a more modern look, frame your views and brighten up your rooms with our sliding windows. Available in two and three lite options, sliding windows are designed with a track and roller system for effortless opening and closing.

# Casement & Awning Windows

Casement windows are a great choice for contemporary and traditional homes alike. While they close tightly to seal out the elements, they crank open easily and have a fold-away nesting handle that won't interfere with shades or blinds. Plus, our casement and awning windows can be combined, mulled and stacked with fixed casement picture windows.





## Multi-Point Locking System

Our easy to reach multi-point locking system provides unmatched performance and maximum security at the most critical points\* using a single locking handle.



Single-lever locking handle

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



## 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.

## Easy to Clean Awning Windows

The sashes on our awning windows swing outward at the bottom to let fresh air in. Open them all the way for easy cleaning.





# Picture & Shaped Windows

Like pictures on a wall, beautiful views deserve to be framed. From rectangles to triangles, 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 additional privacy in a bathroom, consider adding privacy glass.



## Fusion-Welded Frames

No matter the shape, our fusion-welded construction creates a solid, one-piece unit with no excess variance for long-term durability.

## Shaped Windows



Oval



Full Round



Triangle



Triangle, Left or Right



Rectangle



Eyebrow



Quarter Circle



Half Circle



Arch Transom



Exterior Quarter Circle



True Radius



Extended Eyebrow

# Sliding Patio Doors

Our sliding patio doors open up a world of possibilities for your home. While they connect the indoors to outdoor environments, they easily enhance the beauty and elegance of every home, no matter the size and style.

## Locking Systems

Standard single point locking system secures the door tightly to the frame. Add our optional footbolt for more security; it can lock even when the door is partially open.



## Strong and Durable

Frames and glass panels are fully welded for strength and durability. Our energy efficient vinyl never needs painting, leaving more time for you to enjoy your favorite activities.

## Door Handle Finishes

### Standard Handlesets

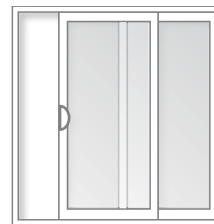


### Upgraded Handlesets



## Panel Configurations

Two-panel widths are available with right-hand or left-hand operation. A transom window or sidelite can be added.



- Two panel widths: 5', 6', 8'
- Panel heights: 6'8"

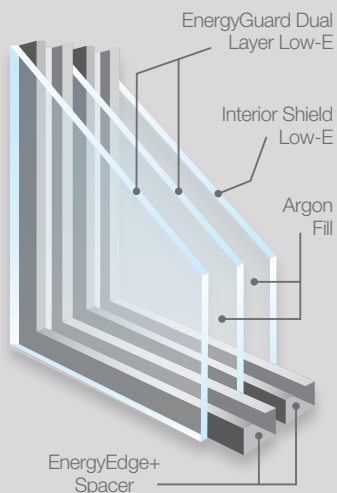


## Top Performing Glass Packages

Based on double hung window configuration

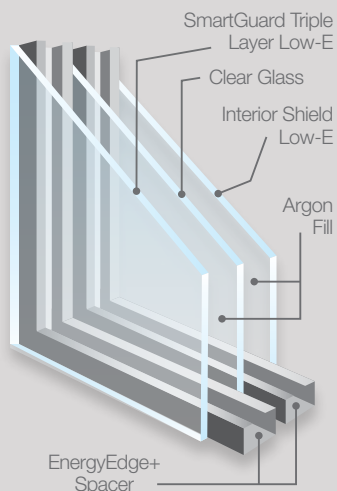
### ➤ EnergyGuard 3 IS

0.23 (U-Value) 0.21 (SHGC)



### ➤ SmartGuard 3 IS

0.26 (U-Value) 0.18 (SHGC)








# Increase efficiency for maximum comfort.

HarborLight windows come standard with 7/8" insulated glass units. Opt for double- or triple-glazed glass systems featuring our EnergyEdge or EnergyEdge+ spacer systems. You can also add the performance of EnergyGuard or SmartGuard and features like Easy-Clean® Glass.




## energyGUARD

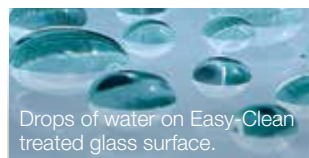
With one, two, or three lites of Low-E and an insulating chamber of argon gas, our EnergyGuard glass systems keep your home especially comfortable in any season.

 <b>EnergyGuard</b>	Dual IG, one lite Low-E with argon	One lite of Low-E reflects radiant heat back into a room without blocking sunlight. Argon improves energy efficiency.
 <b>EnergyGuard 2</b>	Dual IG, two lites Low-E with argon	Two lites of Low-E reflect radiant heat back into a room without blocking sunlight. Argon improves energy efficiency.
 <b>EnergyGuard 2 IS</b>	Dual IG, one lite Low-E and one lite Interior Shield with argon	One lite of Low-E reflects radiant heat back into a room and Interior Shield Low-E keeps radiant heat from escaping the room. Argon improves energy efficiency.
 <b>EnergyGuard 3</b>	Triple IG, two lites Low-E, one lite clear with argon	Two lites of Low-E and one lite of clear reflect radiant heat back into a room without blocking sunlight. Triple pane glass creates a better insulated window. Argon improves energy efficiency.
 <b>EnergyGuard 3 IS</b>	Triple IG, two lites Low-E, and one lite Interior Shield with argon	Two lites of Low-E reflect radiant heat back into a room without blocking sunlight. Triple pane glass provides a better insulated window. Interior Shield Low-E keeps radiant heat from escaping the room. Argon improves energy efficiency.

## SMARTGUARD

SmartGuard glass blocks solar heat and harmful UV rays without darkening your view. Unlike some solar control glass that looks dark or tinted, SmartGuard provides a clear view inside and out.

 <b>SmartGuard</b>	Dual IG, one lite Low-E with argon	One lite of solar Low-E blocks heat and keeps the room temperature comfortable. Argon improves energy efficiency.
 <b>SmartGuard IS</b>	Dual IG, one lite Low-E and one lite Interior Shield with argon	One lite of solar Low-E blocks heat while Interior Shield Low-E keeps rooms comfortable year round. Argon improves energy efficiency.
 <b>SmartGuard 3 IS</b>	Triple IG, one lite Low-E, one lite clear, and one lite Interior Shield with argon	One lite of solar Low-E blocks heat while Interior Shield Low-E keeps rooms comfortable. Triple pane glass provides a better insulated window. Argon improves energy efficiency.



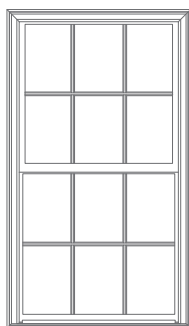
## Less cleaning with less effort.

We use a remarkable advancement called Easy-Clean® Glass, which is available as an option on HarborLight windows. The ultra-thin and transparent coating completely adheres to the glass protecting it from water and oil based stains. The result? Clearer views and easy cleaning.

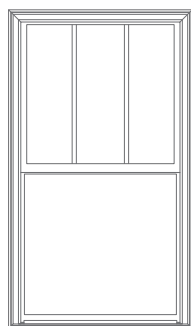
# Make your home uniquely yours.

## Grille Styles

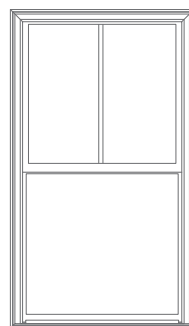
Whatever shape or style you choose, our grille patterns fit windows perfectly. If you love the classic-appeal of divided lites, keep them especially energy efficient and easy to clean with grilles between the glass. Or opt for simulated divided lites (SDL) with shadow bar for an authentic looking true divided lite.



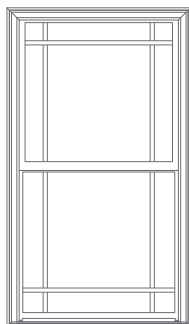
Colonial



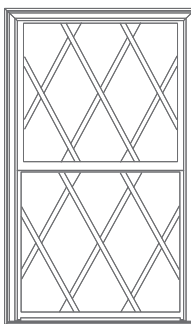
Three over One



Two over One



Perimeter Prairie



Diamond  
(Available in Classic  
grilles only)

## Color Options



White

Standard Hardware Finish

White



Beige

Standard Hardware Finish

Beige

## Privacy Glass

Obscure textured glass ensures privacy while allowing sunlight to brighten a room. It's ideal for bathrooms.



Glue Chip



Obscure



Rain

Available January 2016

## Grille Types

### Grilles between Glass

HarborLight windows are available with 5/8" Classic and 11/16" Williamsburg.



5/8" Classic



11/16" Williamsburg

5/8" Classic

11/16" Williamsburg



7/8" Simulated  
Divided Lite

### Simulated Divided Lite

HarborLight windows are available with 7/8" Simulated Divided Lites with shadow bar.

# Exceeding the standards.



To ensure the performance of HarborLight windows, they've been tested and certified to meet the strict standards of excellence in the residential window and door industry as defined and set by Window & Door Manufacturers Association (WDMA) and the American Architectural Manufacturers Association (AAMA). We are also accredited by the American National Standards Institute (ANSI) and the National Fenestration Rating Council (NFRC), a non-profit organization that provides energy performance ratings and determines fenestration code compliance, also certifies us.

Our stringent testing is accredited by the National Accreditation and Management Institute (NAMI), an independent certification, inspection and quality assurance service provided to the building products industry.

*Certified to AAMA / WDMA / CSA 101 / I.S.2 / A440*



We're also proud to be an ENERGY STAR® Partner. That means our windows meet the strict energy efficiency guidelines set by the U.S. Environmental Protection Agency and the U.S. Department of Energy. The result? Windows that help the environment as well as reduce your energy bills.







## Great Lakes® Window products made close to home.

We've crossed oceans and spent decades developing the highest-quality replacement windows homeowners can find. Our attention to quality started in 1981 when the founders of the Great Lakes Window brand discovered a popular window technique used in Europe. They quickly brought the technique to their home in Toledo, Ohio and began creating many innovative product lines, including HarborLight windows.

Over three decades later, we continue to introduce new products and options so homeowners can work with our dealers to configure the right window for their home and climate. Our products are only as good as the people who sell, design and make them, so we work with the best home improvement professionals to bring HarborLight to your home.

Our premium products are made using state-of-the-art technology, modern equipment and cutting edge operational techniques. The strength of our parent company, Ply Gem, with over 70 years in the building products industry, provides the opportunity for the Great Lakes Window brand to bring more innovative solutions in design, performance and function that go above and beyond your expectations in replacement windows and patio doors.



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