

# *The Signature Window Collection*

*A Tradition of Superior Performance*



*[www.thesignaturewindow.com](http://www.thesignaturewindow.com)*



# *Lifetime Limited Warranty – Unsurpassed Confidence...*

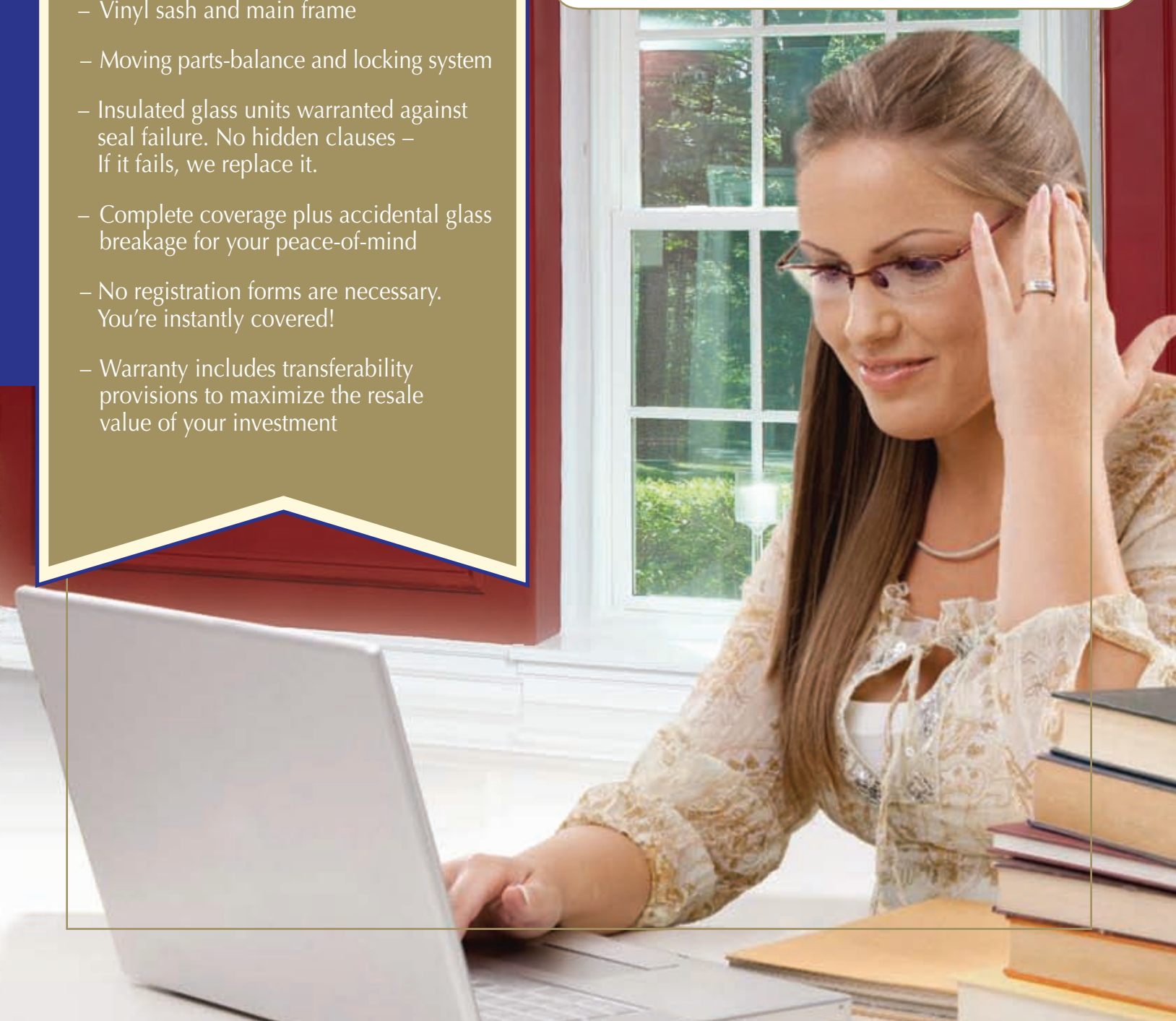


For as long as you own the home,  
you're covered:

- Vinyl sash and main frame
- Moving parts-balance and locking system
- Insulated glass units warranted against seal failure. No hidden clauses – If it fails, we replace it.
- Complete coverage plus accidental glass breakage for your peace-of-mind
- No registration forms are necessary. You're instantly covered!
- Warranty includes transferability provisions to maximize the resale value of your investment

## Table of Contents

Signature...The Superior Window Choice .....	1-2
Evaluating a Window's Performance .....	3-6
Signature Double Hung .....	7-8
Signature Slider Window .....	9-10
Signature Bow, Bay, & Garden .....	11-12
Signature Casement & Awning .....	13
Signature Custom Design Options .....	14
Signature WoodEssence .....	15





Your windows are the

# Why should I replace my windows instead of repairing them?

For most people, their home is their biggest financial asset, so protecting its value is very important. When faced with deteriorating or poorly performing windows, you have the choice to either repair or replace them. Repairing your windows only temporarily relieves your problems, rather than providing you with a sound investment solution for the long run. Your windows are the **HARDEST WORKING ITEMS IN YOUR HOME**. Think about it. You expect to see out of them with excellent visual clarity, while allowing sunlight to stream into your home, but also keeping out unwanted ultra violet light. You ask your windows to provide outstanding ventilation when opened but want them to remain virtually air-tight and thermally insulated when closed. You demand your windows to protect your family

from insects, extreme weather, wind, rain, snow, ice, and forced entry. They must be easy to operate and clean. Above all, they should last a very long time.

Considering the important role windows play in your home, choosing to replace them with premium Signature vinyl replacement windows is an intelligent investment decision. This choice allows you to protect and enhance your home, increase your resale value, and significantly reduce your energy costs; all while substantially adding to your safety and comfort.

Your windows are too important to consider skimping with low value replacement windows.

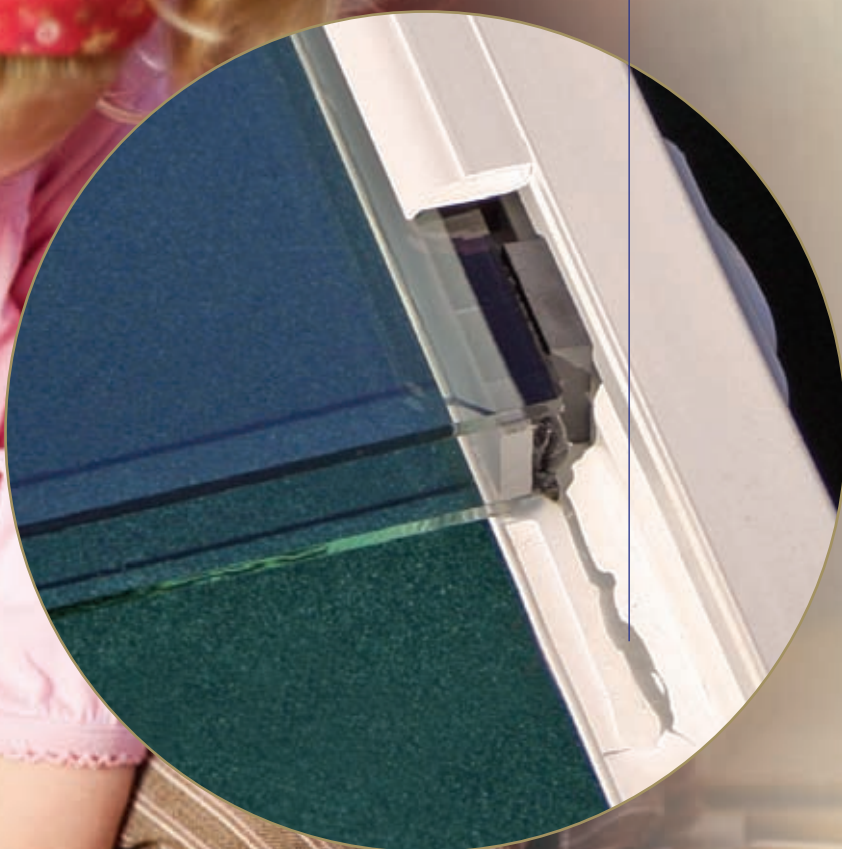
## Why should I consider Signature windows?

Simply put, Signature will work hard for you and perform beyond your expectations. It is the most sensible window solution for your home. You may be looking for a window equipped with advanced engineering that offers exceptional energy performance, safety and security, virtually maintenance-free enjoyment, ease of operation, or elegant refinement. Signature incorporates ALL of these important elements into one window. ***Signature is the superior window choice for your family, home, lifestyle, and budget.***

**HARDEST WORKING PART** of your home.



SIGNATURE'S STRUCTURAL  
SILICONE WET GLAZING



EASE OF OPERATION

ELEGANT REFINEMENT



# Protect your family with strong, secure Signature windows.

## UNWAVERING QUALITY & DEPENDABILITY

- Signature's **fusion welding** of the frame and sash maximizes the strength at all corners of the window frame, actually creating one solid unit, as opposed to being screwed together then caulked. Fusion welding also seals the chambers, adding to Signature's insulation value and energy efficiency.
- **Structural silicone wet glazing**, used in Signature windows, is THE longest lasting, best looking, and most structurally sound way of glazing your high performance glass to the sash frame!
- Signature's exclusive **Endurex composite non-metallic reinforcement** at the meeting rails adds strength, limits conduction and convection, and maximizes energy efficiency.
- The **fully interlocking meeting rail** securely locks into the side jambs, making Signature structurally sound and exceptionally resistant to air infiltration.
- Signature's **locking balance shoe** allows its sash to tilt, while remaining secure in the frame.
- Signature utilizes **easy-to-operate limit latches** to provide safety for your family, while allowing ample ventilation.
- **Extruded, heavy duty screen frames with internal structural corner keys** are standard features in Signature windows that provide peace-of-mind that your family will be safe.



FUSION WELDING



ENDUREX  
COMPOSITE  
NON-METALLIC  
REINFORCEMENT

# Evaluating a Window's Performance in 3 Easy Steps

## Depend on Signature

Your choice in new replacement windows not only affects the architectural look of your home but has **a major impact on your energy usage and comfort.** You don't want to sacrifice strength at these critical barriers to your home. Signature windows use the most technologically advanced materials for maximized strength against harsh weather, intrusion, and health hazards.

Evaluating the performance of a window can be very complicated and frustrating. Fortunately, we have **a simplified 3-step approach** to help you choose the best high quality, high performance window for your home:

- Step 1. Examine the thermal performance of the ENTIRE window.
- Step 2. Check the structural performance of the ENTIRE window.
- Step 3. Verify the thermal performance of the glass.

## Step 1.

## Examine the thermal performance of the ENTIRE Window

### U FACTOR: Thermal Insulation

The **U Factor** indicates how easily heat will flow through the window, whereas R Factor indicates the opposite, how well the window will resist heat flow. The lower the U Factor, the better a window insulates.

### Signature's Superior U-Factor for Thermal Performance of the Entire Window

(As Measured Using NFRC Standards)



\* Dual Pane with Argon    \*\* Triple Pane with Krypton  
Data collected from the [efficientwindows.org](http://efficientwindows.org) web site.

### Solar Heat Gain Coefficient

**Solar Heat Gain Coefficient (SHGC)** is the amount of solar radiation admitted through a window. The lower a window's SHGC, the less solar heat is transmitted into the house and the easier it is to keep your house cool in summer. On the other hand, in northern climates, a higher SHGC can provide beneficial passive solar heating in the winter. **Signature offers a variety of high performance Low E glass packages with varying SHGC ratings to suit your needs, based on your climate.**

### Visible Transmittance

**Visible Transmittance (VT)** measures the percentage of visible light that is admitted through the window.

High performance glass packages have been designed to enhance a window's thermal performance by blocking ultraviolet and infrared light, while maximizing visible light transmission. Clear glass itself blocks about 20% of visible light.







## Step 2.

# Check the structural performance of the ENTIRE Window

Signature windows are tested to standards set forth by the American Architectural Manufacturer's Association (AAMA) for structural performance. **Air infiltration, water penetration, and structural wind loads** are three commonly referenced tests.

## What Is Air Infiltration?

The amount of air that passes through the seals of a window's operating sashes per minute, per square foot of window.

Air Infiltration	CFM (cubic feet of air leakage per minute, per ft <sup>2</sup> window) =	Number of balloons
<b>Signature Window</b>	.01 CFM / ft <sup>2</sup> =	.53 balloons of air leakage per minute* 
Typical Vinyl Window	.18 CFM / ft <sup>2</sup> =	9.68 balloons of air leakage per minute* 
Typical Wood Window	.21 CFM / ft <sup>2</sup> =	11.29 balloons of air leakage per minute* 
Industry Standard	.30 CFM / ft <sup>2</sup> =	16.14 balloons of air leakage per minute* 

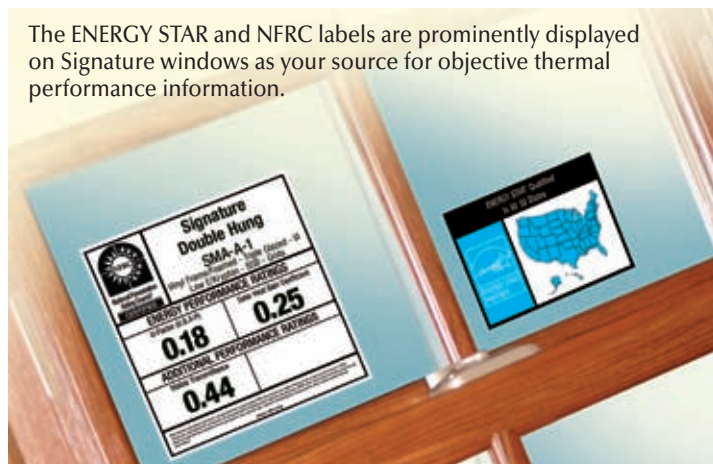
Using a typical vinyl window would be like having a hole in the wall of your home, leaking 9.68 balloons worth of air per minute!

## Signature windows are over 10 times more air tight than typical vinyl windows.

\* Industry Standard: American Architectural Manufacturer's Association (AAMA) has set the industry standard for maximum allowable air infiltration at .30 CFM (cubic feet per minute) during a 25 mph wind.

Data for the above chart assumed a 36" x 60" double hung window and a 9"W x 12"L oval-shaped balloon or 482 in<sup>3</sup> of volume.

The ENERGY STAR and NFRC labels are prominently displayed on Signature windows as your source for objective thermal performance information.



## Water Resistance

Industry Standard: 34 mph

Signature: Over 58% Above Industry Standard

Meaning: Maximum sustained wind speed for a driving rain before water bypasses the window seals.\*

\* The Weather Master option for the Signature double hung window, represented in these graphs, utilizes a riser in the threshold to achieve a PG50 rating. Weather Master has been tested in accordance with AAMA/WDMA/CSA 101/1.5.2/A440-08 and achieved a PG 50 rating (performance grade) for a residential sized window (40" x 63").

PG (formerly DP) ratings, as well as all standardized test ratings, are presented for comparison purposes only, in order to have a standard for comparing test results among similarly sized windows from one or several manufacturers. The actual PG rating of any particular window is dependent upon size and installation.

## Structural Wind Load

Industry Standard: 90 mph

Signature: 171 mph

Meaning: Maximum wind pressure that a window can withstand before structural failure is likely to occur.\*

## ENERGY STAR® & NFRC...Trust the Experts

**ENERGY STAR®** is a government-backed program sponsored by the U.S. Department of Energy and the U.S. Environmental Protection Agency to help consumers identify products that save energy.

Products that earn the ENERGY STAR, prevent greenhouse gas emissions by meeting strict energy efficiency guidelines set by the U.S. Environmental Protection Agency and the U.S. Department of Energy.

Windows must be tested to the **National Fenestration Rating Council (NFRC)** standards. Windows must be certified by an independent third party as meeting the NFRC test standards and unbiased criteria set by Energy Star.

**All Signature windows with Low E glass meet and surpass these criteria.**



Signature windows are manufactured by Seaway Manufacturing Corp.





# Evaluating a Window's Performance in 3 Easy Steps

Depend on Signature for windows that are virtually air-tight, thermally insulated, keep out the weather, and save you money on your energy bills too!

Signature's high performance Low E is applied through the most technologically advanced processes and equipment to ensure extraordinary thermal performance in climates where reducing both heating and cooling costs is important. Signature's high performance Low E has a clear appearance with minimal tint, yet it can keep the summer heat and the winter cold outside, giving you year round comfort. Additional glass packages are also available.

## Signature – "Healthy" Windows

Signature has chosen to combine advanced Super Spacer® with MicroShield antimicrobial triple weather stripping, allowing Signature to protect the health and safety of your family and home.



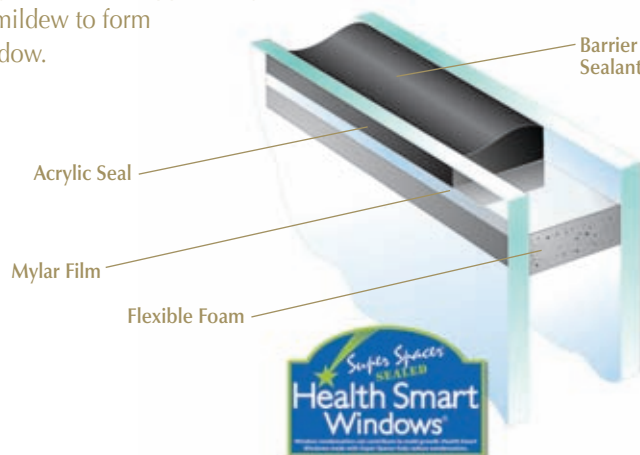
## Step 3.

### Verify the thermal performance of the glass

#### Super Spacer®

Signature windows use advanced **Super Spacer®** as a standard to create insulated glass with a warm edge around the perimeter. The edge of the glass is typically the coldest spot on the window and can be prone to condensation. Other windows utilize glass panes with rectangular aluminum that conducts the heat away from the inner pane of glass, resulting in a cold edge.

Super Spacer is a *non-metallic*, structural foam spacer. Super Spacer blocks heat escape, dramatically reduces condensation, and offsets the effects of temperature changes that prevent stress cracks. This "Health Smart® Spacer" significantly reduces the opportunity for mold and mildew to form on the window.



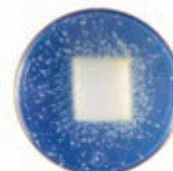
#### MicroShield

Signature's **MicroShield** triple antimicrobial weather-stripping maintains a weather tight fit between the sashes and frame. It keeps mold and mildew at bay, and is especially helpful for people with allergies and asthma. This completes the package for a truly "Health Smart®" window.

Micro-Organism Growth



With  
MicroShield  
Protection



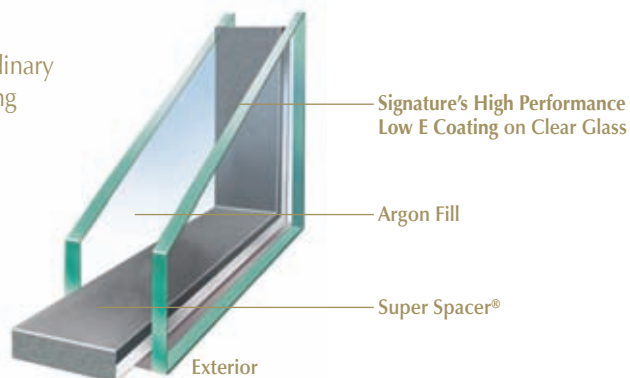
Without  
MicroShield  
Protection



# Signature's Recommended Insulated Glass Packages

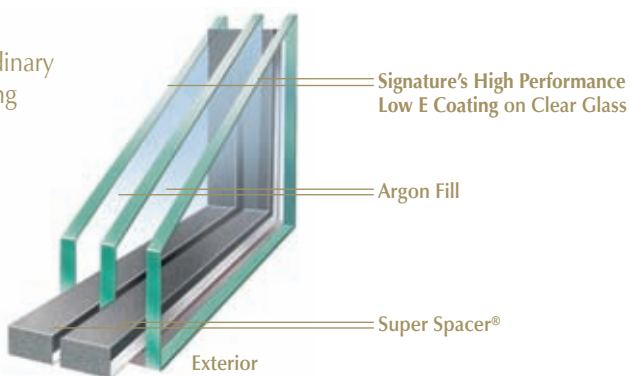
## Signature's InsulGlaze 450

- 7/8" dual pane glass with Argon gas fill
- Contains Signature's high performance Low E to provide extraordinary performance in climates where reducing both heating and cooling costs is important
- Utilizes Super Spacer® non-metallic foam spacer to reduce condensation
- Center of Glass R Value of 4
- NFRC (whole product) U Factor of .28
- SHGC of .29



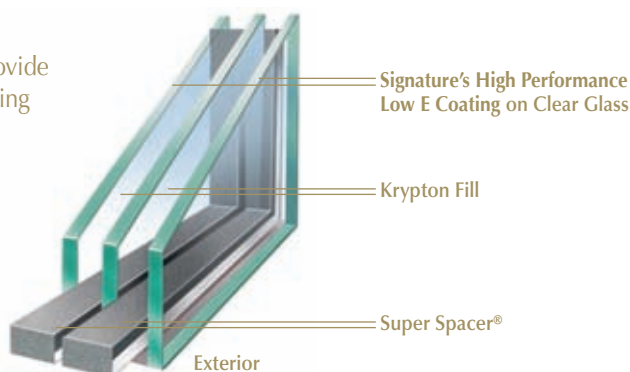
## Signature's InsulGlaze 700

- 7/8" triple pane glass with Argon gas fill in both cavities
- Contains Signature's high performance Low E to provide extraordinary performance in climates where reducing both heating and cooling costs is important
- Utilizes Super Spacer® non-metallic foam spacer to reduce condensation
- Center of Glass R Value of 6
- NFRC (whole product) U Factor of .22
- SHGC of .26



## Signature's InsulGlaze 1000

- 7/8" triple pane glass with Krypton gas fill in both cavities
- Contains two panes of Signature's high performance Low E to provide extraordinary performance in climates where reducing both heating and cooling costs is important
- Utilizes Super Spacer® non-metallic foam spacer to reduce condensation
- Center of Glass R Value of 10
- NFRC (whole product) U Factor of .18
- SHGC of .25



**EnviroTherm injection foam filled polyurethane insulation** in the multi-chamber uPVC frame extrusions makes Signature an exceptionally insulated window and keeps your home cooler in the summer and warmer in the winter.



## Signature Double Hung

Beautiful windows that increase the resale value and curb appeal of your home.

The Signature window boasts the finest fit and finish in the industry with its **distinctive contoured millwork** frame and sash designs that emulate the beauty of traditional wood windows **with virtually no care or maintenance**. Boasting three interior woodgrains and the WoodEssence custom stainable or paintable interior option, it's no wonder the workmanship of the Signature window has earned praise from thousands of homeowners.

Signature comes standard in cream white - the "right white" that looks like fresh paint, with no dingy blue or gray tint to detract from your home's appearance.

Consider this. With designer exterior colors to match any home, a maximized glass viewing area, and elegant glass and grid options that include simulated divided lites, Signature may be exactly what you are looking for in a replacement window for your home.

## Only replace your windows ONE time with Signature's durable, long-lasting windows.

– Signature windows utilize **multi-chamber, unplasticized vinyl (uPVC) frame and sash extrusions**, which are stronger and more durable than other materials, resistant to damage from UV light, easier to clean, and will withstand the "test of time" against other types of vinyl frame and sash extrusions.

– Signature's proven, reliable **Constant Force Balance System** provides nearly effortless window operation over the life of the window, far superior to spiral or block & tackle systems.

– Tested to **AAMA 101 standards**: Out-performs the requirements to withstand even the harshest weather. By choosing Signature's **Weather Master** option, you can achieve a very impressive PG-50 (performance grade) rating!



The **ergonomically designed lift rail** is part of the welded sash, not part of the glazing bead where it could be broken off, which would disrupt the look and efficiency of the window.

## Have more "me time" with virtually maintenance-free Signature windows

– Signature's **compound welds** increase the beauty of the window, and the **true sloped sill** (not the snap-in type) eliminates weep holes.

– Signature **sashes tilt in** for effortless cleaning from the interior of your home.

– Signature's **advanced materials** eliminate worries of fading, cracking, peeling, and warping.



Signature's **contoured glazing bead** offers clean sight lines, adds incredible aesthetic value, and leaves no sharp corners or grooves for accumulation of grime, dirt, or mold.

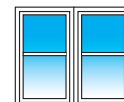
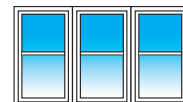




### Take a Closer Look at the Double Hung Window Style:



- Window sashes slide vertically and can be tilted inward for cleaning from the interior of your home.
- Double hung windows work well in a traditional style home.
- Double hungs can be mulled together or combined with picture windows.



Signature's stream-lined, low profile **SeaCure lock** provides unsurpassed protection for your family against unwanted intruders and is not visible from the outside.

The Signature window comes standard with the homeowner favorite, **ULTRA SeaClear** screens. **ULTRA SeaClear screens** offer enhanced light transmittance, visual clarity, air flow, and resistance to insects.

ULTRA  
SeaClear Screen



Typical  
Fiberglass  
Screen

# Choose the Right Window Style for Your Home...

## Signature Slider Window

### Live in Comfort, Relax in Style

Let the sunlight into your home and maximize your viewing area with Signature's Slider window. The Signature Slider window **shares the same, impressive features and benefits of Signature's double hung window**. Signature Slider windows come in 2-lite and 3-lite styles and are designed with **elegance and functional ease**. Four durable high performance rollers allow you to **effortlessly slide both sashes open and closed** with just one hand. And, **cleaning your slider windows from the interior of your home is a breeze with our easily removable sashes**.

Custom designed and custom manufactured with premium standard features, Signature utilizes a proven design that will increase the strength, appearance, and energy efficiency of your home.



### Trust that Signature windows will provide protection and security for your loved ones

- Signature's **MicroShield antimicrobial triple weather stripping** maximizes resistance to air and water infiltration, mold, dust, fungi, pollen, and harmful bacteria.
- Full interlocks provide structural integrity and unsurpassed insulating performance.
- Windows feature heavy-duty sash locks for added security.

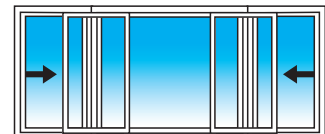
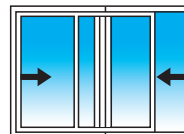


Removable sashes for easy convenient cleaning from the interior of your home

### Take a Closer Look at the Slider Window Style:



- Window sashes slide horizontally and can be lifted out for cleaning from the interior of the home.
- Slider windows come in two or three lite styles and slide effortlessly for easy operation.





*Four, durable high performance rollers to allow smooth open and closed gliding.*



## Signature Bow, Bay, & Garden



### Classic Grace and Distinction

Signature's Bow, Bay & Garden windows will be the envy of your neighborhood. Your home's exterior will **gain dimension, architectural interest, and tremendous curb appeal**. Your home's interior will appear brighter and more spacious with a Signature bow, bay, or garden window.

#### BOW

A bow is a space-enhancing window style, designed to be the focal point of any room. Bow windows consist of three or more equal-sized casement, picture, or double hung windows that radiate out to form a semi-circle.

#### BAY

Similar to the bow window style, a bay is designed to be a center piece for any room. Consider converting several smaller windows into a three-dimensional bay. Bays consist of a combination of three windows including: casement, picture, or double hung windows. The center lite is generally the largest and parallel with the wall, while the end window on either side is smaller and angled back towards the wall.

#### GARDEN

The garden window style is most commonly used in a kitchen area, allowing sunlight in for plants to flourish. Garden windows have a glass roof, picture window front, and operating side casements for ventilation.



### Bow/Bay Window Style

- Signature's exclusive, custom-fit, fusion welded Z-Cap™ utilizes unique technology that creates a strong, tight seal against water and air infiltration.
- Custom sizes, configurations, and colors are always available.
- Your Signature bow or bay window can be ordered with an optional cable support suspension system, which adds additional support to your window and protects against settling over time.
- All head and seatboards are made from 1-1/4" birch or oak veneer that can be painted or stained for a custom, elegant look. The exterior of the seatboard is laminated for long-lasting protection.
- Lamination provides weather-resistance to further protect your window.
- Optional **ComforTuff™ insulation** is applied to the underside of seatboard for increased protection and comfort year-round.

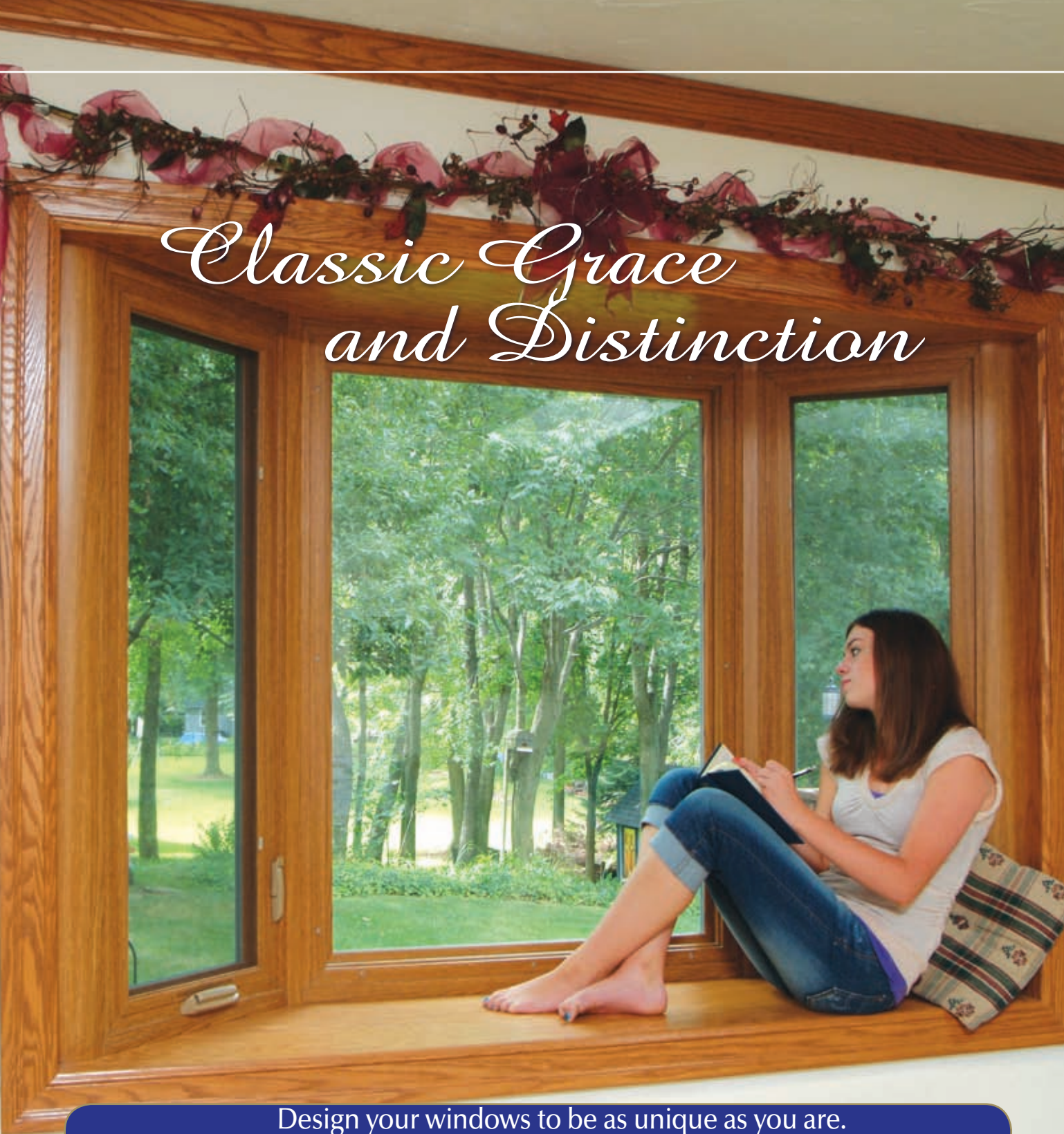
### Garden Window Style

- Easy-to-open, out-swinging trapezoid casement end vents provide for cross ventilation.
- Multi-point locking hardware on operating sashes will give you the added security you need.
- Standard, vinyl-coated center wire shelf or optional tempered glass shelf is provided for two levels of showcasing your plants and keepsakes.
- 3/4" PVC vinyl extruded Komocel seatboard provides an easy-clean, water-resistant, no-rot surface for plants.

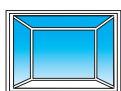




# Classic Grace and Distinction



Design your windows to be as unique as you are.



Garden Window



Bay Window with Double Hung Sides



3-Lite Bow Window with Double Hung Sides



Bay Window with Casement Sides



3-Lite Bow Window with Casement Sides



4-Lite Bow Window with Casement Sides



5-Lite Bow Window with Casement Sides



# Choose the Right Window Style for Your Home...

## Signature Casement & Awning

### Enhance the Splendor of Your Home

Signature's Casement and Awning window styles enhance the splendor of contemporary and traditional homes alike. Signature's advanced materials **eliminate worries of fading, cracking, warping, and peeling.** Engineered to exact standards, Signature has made the casement and awning windows **the tightest sealing window styles.** Casement and awning windows **maximize your ventilation in small openings.** Casement windows are hinged at the side, while awning windows are hinged at the top to provide ventilation during a rain shower.

With one hand, you can easily open and close your Signature casement and awning windows with our **geared handle.** And, by opening your window completely, you can **conveniently clean both the interior and exterior of your window sash, from the interior of your home.** Signature's casement and awning windows can be configured individually, stacked, or used in combination with picture windows.



– Stacked Awning windows with picture window assembly

– 3-lite Casement with colonial grids

– Engage multiple points with one, single security lock lever

– Geared handle...easy to open with just one hand even on large windows

- Casement and awning windows can be opened completely to allow both panes of glass to be easily cleaned from the interior of your home
- Extruded, aluminum heavy-duty standard full screen frame with internal ULTRA SeaClear screens for easy removal
- Collapsible hardware for convenience with blinds and other window treatments





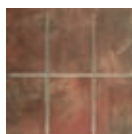
## Signature Custom Design Options

Choose the glass, grid, and color options that are perfect for you and your home...the possibilities are nearly endless. The flexibility of our window designs and the ability to **integrate any design and size into your home** allows for optimum cost effectiveness and energy efficiency.

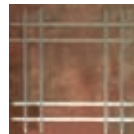
The choice is truly yours— style, size, color, and an assortment of specialty window shapes, grid styles, and glass options will **provide a look designed exclusively for your home.**

### Endless Possibilities – Decorative Glass Options

– Available in polished, frosted, or shadow bevel finish.



Colonial  
V-Groove



Double  
Prairie  
V-Groove



Florentine  
V-Groove

### Simulated Divided Lites

– **Simulated Divided Lites** are offered in white, beige, woodgrain, Stylux coatings, and the WoodEssence paintable/stainable option – available in all styles in colonial or prairie patterns



### Colors & Coatings

Designer Interior Color Collection –



White



Beige



Light Oak



Medium Oak



Cherry

Stylux Heat Resistant Designer Exterior Coating Collection –



White



Almond\*



Beige



Clay



Bronze



Chestnut



Evergreen



Black

\* Almond Stylux-Bond varies slightly in composition from other Stylux exterior coatings.

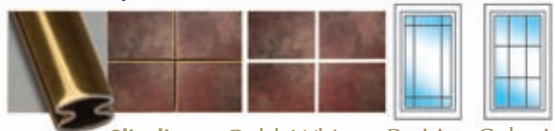
– Color samples may vary slightly from the actual color finishes due to the limitations of the printing process. Please see your sales representative for an actual sample of finishes.

– Optional color matching is available to coordinate with any home's exterior.

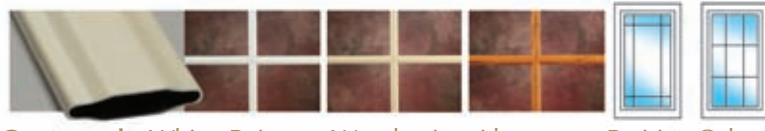
### WoodEssence Paintable/Stainable Finishing Option

to coordinate with your home's wood trim or a complimentary color scheme with your home's decor. See back cover for more detailed information.

### Grid Styles, Colors, & Patterns



**Slimline** – Gold, White Prairie Colonial



**Contoured** – White, Beige, or Woodgrain with any standard exterior color Prairie Colonial



**Flat** – White, Beige, or Bronze with any standard exterior color

Prairie Colonial Diamond

### Specialty Window Shapes



# The Superior Alternative to Wood



## Signature...Featuring WoodEssence

Attain the traditional aesthetics and elegance of authentic wood windows without the countless maintenance hassles.

WoodEssence is a wood grain laminate designed to give you the opportunity to either stain or paint the interior of your windows, achieving an exact color match with your interior trim or a complimentary color scheme to coordinate with your home's decor.

Shhh... it will be our secret. Your friends and neighbors will be envious of your beautiful "wood" windows, and the best part? You won't have to do anything to keep them beautiful.

Signature's WoodEssence... *the best kept secret.*

### Examples of Signature's WoodEssence Custom Stain Options



Red Mahogany



Pecan



Natural Walnut



Golden Oak



Dark Walnut



Cherry



Cedar



Pickling White

The Signature Window Collection

[www.thesignaturewindow.com](http://www.thesignaturewindow.com)