

Design Innovations and Performance Features

- 1 Reinforced narrow silhouette frame and sash profiles** make a statement of style with their low-profile design. The result is a beautiful and expanded glass area. At the same time, internal chambers provide structural integrity, rigidity, and energy efficiency.
 - 2 End-of-throw cam shift locking** delivers increased strength and protection to the recessed lock. It also includes an “unlocked” indicator.
 - 3 Composite meeting-rail reinforcement** allows for secure mounting of hardware; the low-conductive material further promotes energy efficiency.¹
 - The smooth and uniform **true sloped sill** (double-hung only) promotes water runoff without the use of weep holes, keeping the exterior of the window clean and attractive.²
 - When harsh wind and weather hit, our proprietary **sill interlock** stands strong. Traditional sloped sill designs can allow the sash to bow during powerful winds, but with our interlocking sash-to-sill technology, the sash is channeled firmly into the window frame for a unified wall of strength.
- The **telescoping sill dam** delivers a triple payoff: protection from air and water infiltration, increased structural stability, and enhanced beauty.
 - Our innovative **screen bulb seal** creates a snug fit that helps prevent light and insect penetration between the screen and frame. It also aids in easy screen installation and removal.³

Additional Sliding Window Features

- Sashes glide horizontally for easy opening and closing.
- Both sashes lift out for convenient cleaning.⁴
- Nylon-encased dual brass roller system for smooth gliding performance.

Insulated Glass Packages to Meet Your Needs

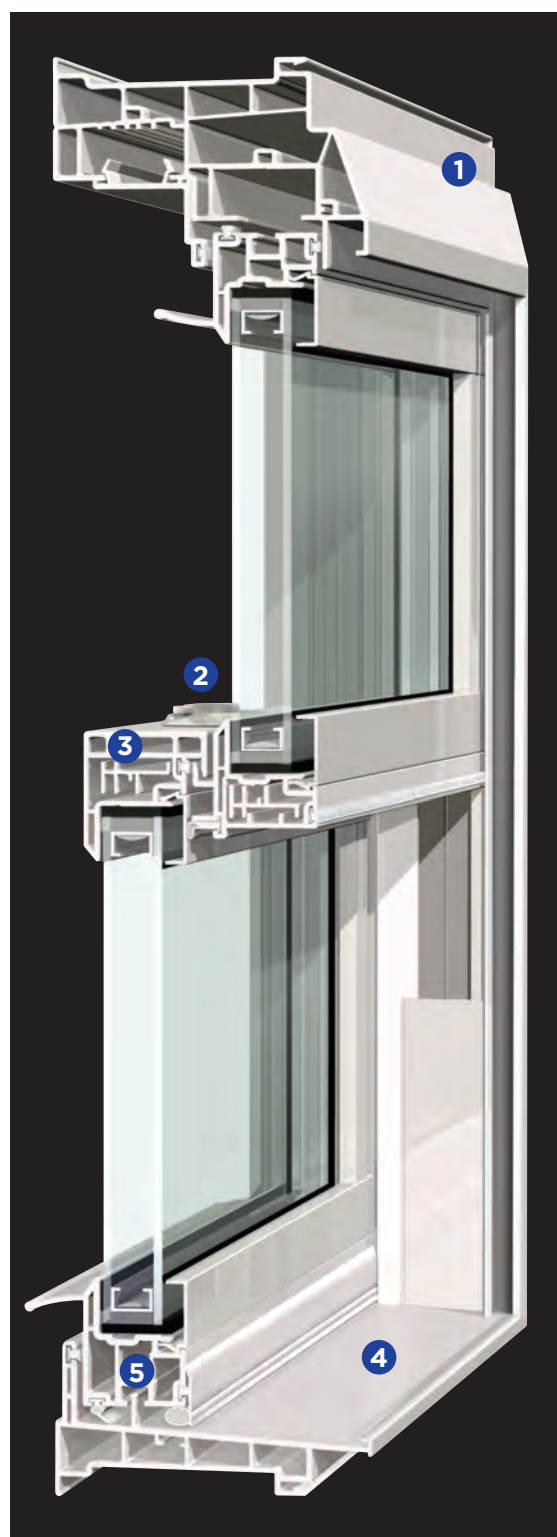
Increase your energy savings by choosing a high-performance SolarZone® insulated glass package to meet your specific climate challenges. The lower the U-Factor, the less energy you'll need to maintain the temperature of your home. In warm climates, the lower the Solar Heat Gain Coefficient (SHGC), the more you'll conserve on air-conditioning. In cool climates, the higher the SHGC, the more you'll conserve on heating.

	DOUBLE-HUNG		SLIDING	
	U-FACTOR	SHGC	U-FACTOR	SHGC
Clear Glass	0.46	0.57	0.45	0.57
SolarZone	0.29	0.28	0.29	0.31
SolarZone Elite	0.29	0.21	0.28	0.21
SolarZone ThermD S3	0.28	0.35	0.28	0.38
SolarZone ThermD with Enhanced Cavity Foam	0.27	0.28	0.27	0.31
SolarZone ThermD Elite	0.27	0.21	0.27	0.21
SolarZone Plus iE-Liner	0.27	0.28	0.27	0.31
SolarZone Plus S3	0.28	0.35	0.28	0.38
SolarZone Plus Elite	0.28	0.21	0.27	0.21
SolarZone Plus Elite with Enhanced Cavity Foam	0.27	0.21	0.26	0.21

⁵Whole window values are based on double-strength glass, standard 4000 Series offering with composite reinforcements. Grids, ST, and HP performance values are also available.

Clear: Double-paned clear glass unit.
SolarZone: Double-paned unit with one pane of Low-E glass, argon gas, and metal alloy Intercept spacer.
SolarZone Elite: Double-paned unit with one pane of Low-E SHGC glass, argon gas, and Intercept Stainless Steel Spacer.
SolarZone ThermD S3: Double-paned unit with one pane of Low-E glass on surface 3, argon gas, and Intercept Stainless Steel Spacer.
SolarZone ThermD with Enhanced Cavity Foam: Double-paned unit with one pane of Low-E glass, argon gas, and Intercept Stainless Steel Spacer, along with enhanced cavity foam mainframe.
SolarZone ThermD Elite: Double-paned unit with one pane of Low-E SHGC glass, argon gas, and Intercept Stainless Steel Spacer.
SolarZone Plus iE-Liner: Double-paned unit with one pane of Low-E glass, argon gas, and structural foam spacer, along with insulation-enhanced mainframe.
SolarZone Plus S3: Double-paned unit with one pane of Low-E SHGC glass, argon gas, and structural foam spacer.
SolarZone Plus Elite: Double-paned unit with one pane of Low-E SHGC glass, argon gas, and structural foam spacer.
SolarZone Plus Elite with Enhanced Cavity Foam: Double-paned unit with one pane of Low-E SHGC glass, argon gas, and structural foam spacer, along with enhanced cavity foam mainframe.

SolarZone Plus S3: Double-paned unit with one pane of Low-E SHGC glass, argon gas, and structural foam spacer.
SolarZone Plus Elite: Double-paned unit with one pane of Low-E SHGC glass, argon gas, and structural foam spacer.
SolarZone Plus Elite with Enhanced Cavity Foam: Double-paned unit with one pane of Low-E SHGC glass, argon gas, and structural foam spacer, along with enhanced cavity foam mainframe.



¹Double-hung base model will automatically be converted to ST (steel reinforcement) for all units ordered in excess of 48" wide or 84" high.
²For larger size windows or to meet specific DP/PG ratings, optional weeps/performance package must be ordered.
³Available only with the full screen option.
⁴Sashes on larger sliding windows may be difficult to lift out due to weight.

Interior Woodgrains and Exterior Colors

Window World Windows are available in a variety of rich hues and natural-looking wood finishes that are remarkably strong and fade-resistant. Transform the appearance of your home both inside and out with visually exciting colors and warm spices of wood. Homeowners can achieve the beauty of custom-crafted wood windows, without the time-consuming maintenance, with our architecturally coordinated exterior window colors in high-performance finishes.

Exterior Palette

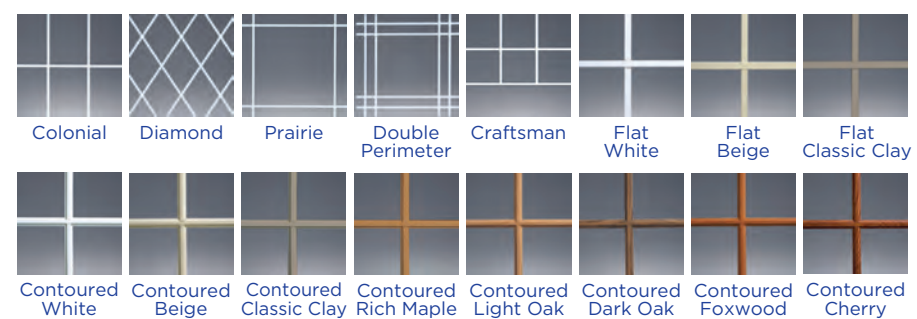


Interior Palette



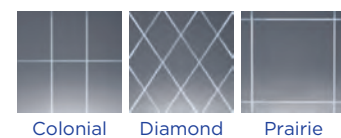
Interior Grids

Window grids are available in classic colors in the standard configurations of Colonial, Diamond, Prairie, Double Perimeter, and Craftsman patterns, all lending themselves to your unique décor. Contoured grids are available in 3/4" and 1" profiles with complementary colors and matching woodgrains.⁶



Decorative Cut Glass

Looking for a touch of elegance that won't obstruct the view? Choose from our V-grooved cut glass in three classic patterns.



Simulated Divided Lite⁷

With our Simulated Divided Lites, grids are affixed to the interior and exterior of the window - and shadow bars between the panes of glass - to replicate the distinctive historical design of true divided lites.



⁹Extruded solid color. Note: Classic Clay base is not available with exterior color finishes.
¹⁰White woodgrain is available with a Beige or Classic Clay base only.
¹¹Contoured grids are not available in matching woodgrains.
¹²Not available with triple-pane glass packages.



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4000 Series Double-Hung
White Double-Hung with White
Contoured Colonial Grids.



AMERICA'S EXTERIOR REMODELERSM

Improving Homes. Changing Lives.®

4000 SERIES

DOUBLE-HUNG AND SLIDING
REPLACEMENT WINDOWS



Featuring a beautifully refined silhouette and advanced energy-saving technology,[†] our 4000 Series delivers exceptional style, strength, energy efficiency, and value – everything today's homeowners are looking for in a quality replacement window, and more.



Both sashes of Window World Double-Hung Windows tilt in for easy and convenient cleaning from inside your home.

This next-generation 4000 Series is expertly crafted to meet or exceed ENERGY STAR[®] requirements, as certified and verified by the ENERGY STAR label. The dual-pane, double-strength insulated glass,^{††} thermally efficient frame and sash, and low-conductive composite reinforcements are just part of the advanced energy engineering that puts 4000 Series Windows in a class all their own – premium window performance with everyday affordability.

With Window World[®] Windows your home will have a fresh, energy-efficient, low-maintenance solution backed by a lifetime limited warranty.*



Enhanced Cavity Foam Option



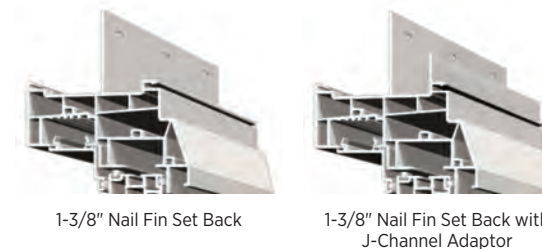
Improve the insulating performance of your 4000 Series Windows with our enhanced cavity foam option. The rigid foam is precisely contoured to match specific chambers in the window frame for greater energy efficiency.

Available in sliding, double-hung, and picture windows, the ultra-efficient rigid foam is channeled into select components of the head, jamb, and sill. This innovative insulation incorporates high-purity graphite granules into the expanded polystyrene (EPS) raw material, resulting in a gray-colored, carbonized foam that reflects radiant heat.

The enhanced cavity foam frame creates a superior thermal barrier against energy loss, thereby helping to reduce heating and cooling needs.

Additional Frame Options

For enhanced appearance and ease of installation, two additional frame options also are available.



Increase Your Energy Savings with a Triple-Pane Glass Option

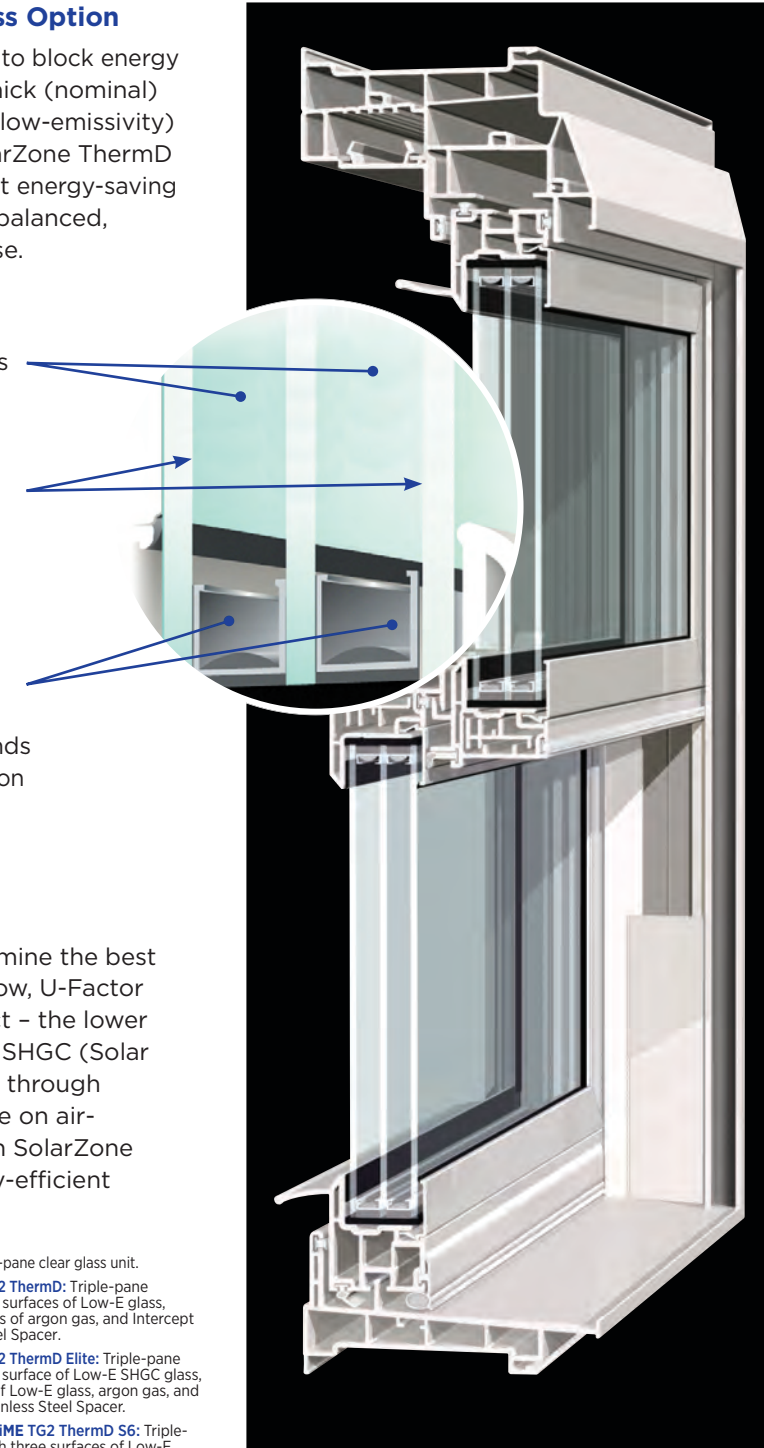
Triple-pane glass systems deliver an added layer of protection to block energy loss. Their precision-engineered construction features a 1" thick (nominal) glass unit with three panes of glass, two surfaces of Low-E (low-emissivity) technology, and two spaces of argon gas, along with the SolarZone ThermD Intercept[®] Stainless Steel Spacer System for an ultra-efficient energy-saving shield. This thermally enhanced glass system provides a more balanced, comfortable indoor climate, while also reducing outside noise.

Energy Efficiency Is Rooted in the Design

Argon is an insulating gas between the glass panes that acts as a thermal barrier on energy loss, counteracting heat and cold conduction.

Low-E Glass insulating technology features a virtually clear, metallic coating that acts as a thermal mirror to help keep warm air in during the winter and solar heat out during the summer.

SolarZone ThermD Intercept Stainless Steel Spacer features a unique, one-piece U-shaped design that stabilizes the panes of glass and creates a powerful thermal barrier. Stainless steel is impervious to gas transmission and withstands the effects of temperature changes, thus increasing gas retention and alleviating stress on the sealant bond to help prevent seal failure.



Advanced Triple-Pane Thermal Protection

Comparing one glass system to the next can help you determine the best glass for your home and climate challenges. In the table below, U-Factor represents the rate of heat flow through the window product – the lower the U-Factor, the less energy is needed to heat a home. The SHGC (Solar Heat Gain Coefficient) represents the solar heat penetrating through the window – the lower the number, the more you'll conserve on air-conditioning use. Window World 4000 Series Windows with SolarZone ThermD TG2 glass technology are substantially more energy-efficient than clear double-pane glass windows.

	COMPOSITE REINFORCEMENT	
	U-FACTOR	SHGC
Clear Glass ⁷	0.46	0.57
SolarZone TG2 ThermD	0.22	0.24
SolarZone TG2 ThermD Elite	0.22	0.19
SolarZone PRIME TG2 ThermD S6 ⁸	0.20	0.21

Clear: Double-pane clear glass unit.
SolarZone TG2 ThermD: Triple-pane unit with two surfaces of Low-E glass, two air spaces of argon gas, and Intercept Stainless Steel Spacer.
SolarZone TG2 ThermD Elite: Triple-pane unit with one surface of Low-E SHGC glass, one surface of Low-E glass, argon gas, and Intercept Stainless Steel Spacer.
SolarZone PRIME TG2 ThermD S6: Triple-pane unit with three surfaces of Low-E glass, two air spaces of argon gas, and Intercept Stainless Steel Spacer.

⁶Whole window values, single-strength glass.
⁷Whole window values, double-strength glass.
⁸Whole window values, single-strength glass with enhanced cavity foam. Grids, ST, and HP performance values are also available.

