

# Window World

**4000 SERIES**  
DOUBLE-HUNG AND SLIDING  
REPLACEMENT WINDOWS



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



**AMERICA'S EXTERIOR REMODELER**

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 easier, safer cleaning from inside your home.

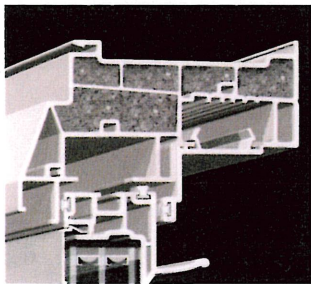
This next-generation 4000 Series is precision-engineered to meet or exceed stringent ENERGY STAR® requirements, providing triple-pane energy-saving performance in a dual-pane unit. The dual-pane, double-strength insulated glass, thermally optimized frame, and sash and non-conductive composite reinforcements 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.



Increase 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 optimal energy savings.

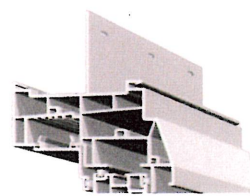
Available in sliding, double-hung, and picture windows, the ultra-efficient rigid foam is channeled into select components of the head, jamb and sill.

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.

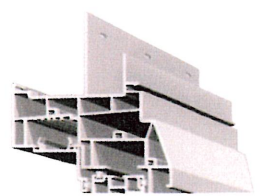
The enhanced cavity foam frame creates a superior thermal barrier for reduced heating and cooling energy use year-round.

### Additional frame options.

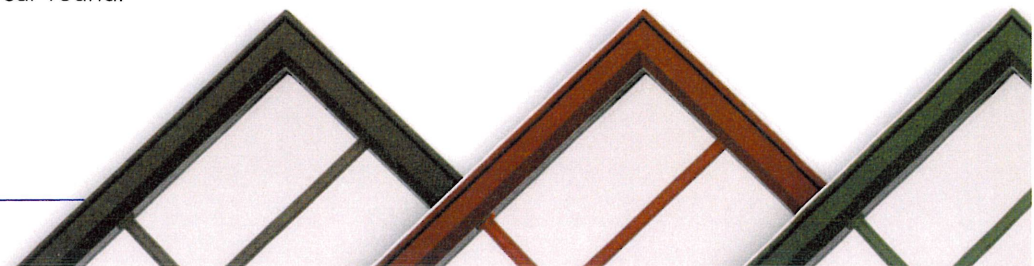
For enhanced appearance and ease of installation, two additional frame options also are available.



1-3/8" Nail Fin Set Back



1-3/8" Nail Fin Set Back with J-channel adaptor





## Maximize 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 glass unit,<sup>†</sup> three panes of single-strength glass, two surfaces of Low-E (low-emissivity) technology, two spaces of argon gas, along with the SolarZone ThermD Intercept<sup>®</sup> Stainless Steel Spacer System for an ultra-efficient energy-saving shield. This thermally optimized 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. Argon gas also helps block noise infiltration for a quieter indoor climate.

**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. Low-E also filters out damaging UV rays that can cause furnishings and carpet to fade.

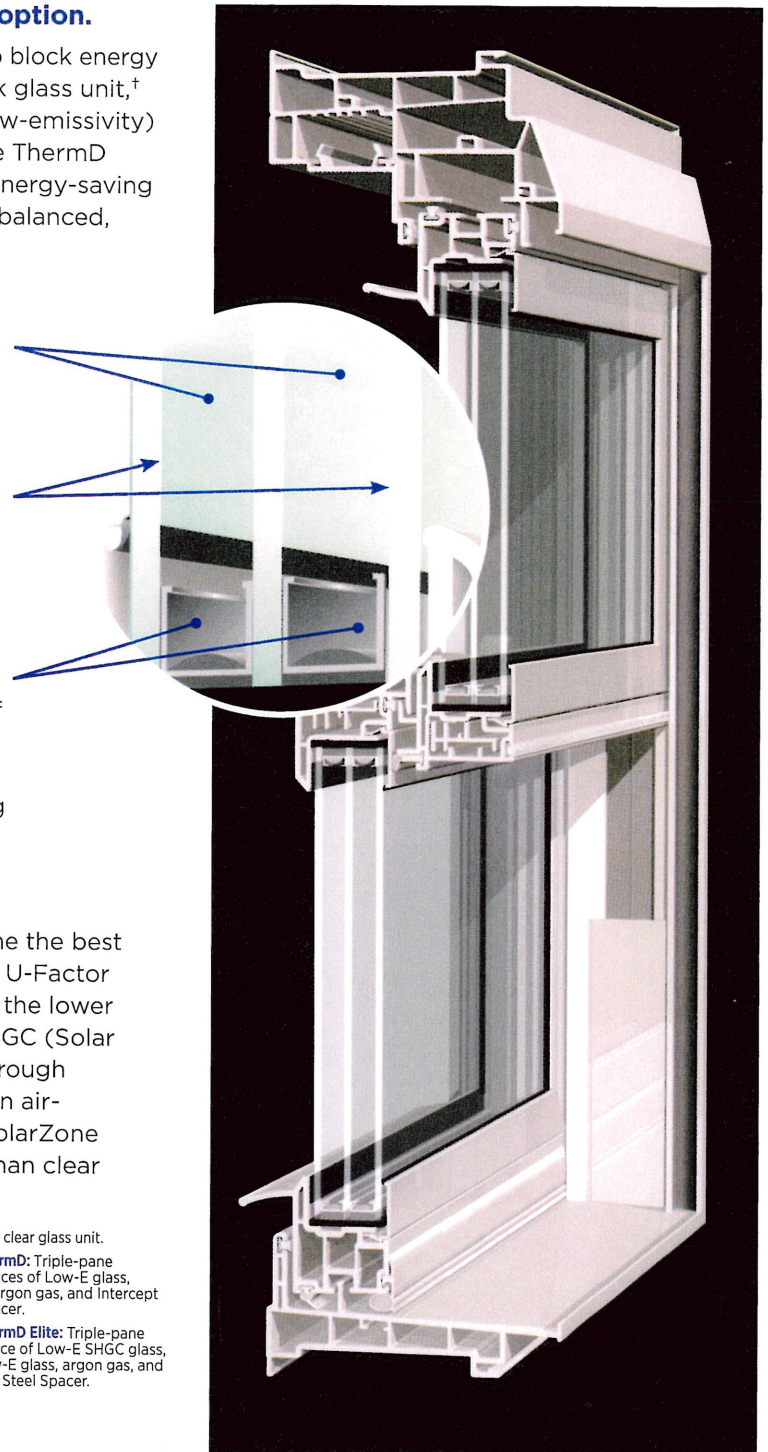
**SolarZone ThermD Intercept Stainless Steel Spacer** features a unique, one-piece U-shaped design that stabilizes the panes of glass and creates a powerful thermal barrier. Stainless steel is impervious to gas transmission and withstands the effects of temperature changes, thus increasing gas retention 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 52% more energy-efficient than clear double-pane glass windows.

	THERMAL PERFORMANCE COMPARISON <sup>5</sup>	
	COMPOSITE REINFORCEMENT	
	U-FACTOR	SHGC
Clear Glass <sup>6</sup>	0.46	0.57
SolarZone TG2 ThermD	0.21	0.27
SolarZone TG2 ThermD Elite	0.21	0.19

<sup>5</sup> Whole window values, single-strength glass.  
<sup>6</sup> Whole window values, double-strength glass.  
 Grids, ST and HP performance values are also available.



**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.



## Best-in-class 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 increase structural integrity, rigidity, and energy efficiency.
  - 2 Composite meeting-rail reinforcement** allows for secure mounting of hardware; the non-conductive material helps reduce the transfer of energy.<sup>1</sup>
  - 3 End-of-throw cam shift locking** delivers increased strength and protection to the recessed lock. It also includes an “unlocked” indicator.
  - 4** The smooth and uniform **true sloped sill** quickly directs water runoff without the use of weep holes, keeping the exterior of the window clean and attractive.<sup>2</sup>
  - 5** When extreme 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.
- Our **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 eliminates light and insect penetration between the screen and frame. It also aids in easy screen installation and removal.<sup>3</sup>

## Additional sliding window features:

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

## Insulated glass packages to meet your needs.

Maximize your energy savings by choosing a high-performance SolarZone insulated glass<sup>†</sup> 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.

THERMAL PERFORMANCE COMPARISON <sup>4</sup>				
	DOUBLE-HUNG		SLIDING	
	U-FACTOR	SHGC	U-FACTOR	SHGC
Clear Glass	0.46	0.57	0.46	0.58
SolarZone	0.29	0.30	0.29	0.30
SolarZone Elite	0.29	0.21	0.28	0.21
SolarZone ThermD S3	0.28	0.37	0.28	0.37
SolarZone ThermD with Enhanced Cavity Foam	0.27	0.30	0.27	0.30
SolarZone ThermD Elite	0.28	0.21	0.27	0.21
SolarZone Plus iE-Liner	0.28	0.30	0.27	0.30
SolarZone Plus S3	0.28	0.37	0.27	0.37
SolarZone Plus Elite	0.27	0.21	0.27	0.21
SolarZone Plus Elite with Enhanced Cavity Foam	0.26	0.21	0.26	0.21

<sup>4</sup> Whole 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 metal alloy Intercept spacer.

**SolarZone ThermD S3:** Double-paned unit with one pane of Low-E glass on surface 3, argon gas, and stainless steel Intercept spacer.

**SolarZone ThermD with Enhanced Cavity Foam:** Double-paned unit with one pane of Low-E glass, argon gas, and stainless steel Intercept spacer, along with enhanced cavity foam mainframe.

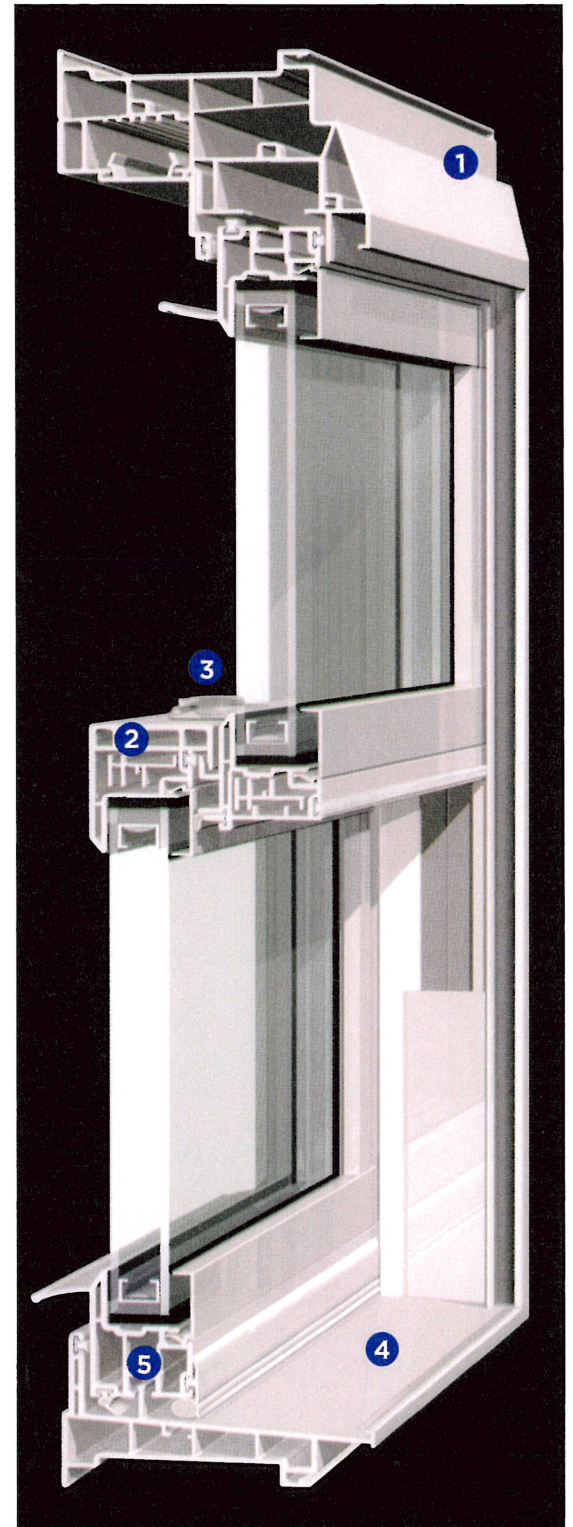
**SolarZone ThermD Elite:** Double-paned unit with one pane of Low-E SHGC glass, argon gas, and stainless steel Intercept spacer.

**SolarZone Plus iE-Liner:** Double-paned unit with one pane of Low-E glass, argon gas, and foam spacer, along with insulation-enhanced mainframe.

**SolarZone Plus S3:** Double-paned unit with one pane of Low-E glass on surface 3, argon gas, and foam spacer.

**SolarZone Plus Elite:** Double-paned unit with one pane of Low-E SHGC glass, argon gas, and foam spacer.

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



1 Double-hung base model will automatically be converted to ST (steel reinforcement) for all units ordered in excess of 48" wide or 84" high.

2 For larger size windows or to meet specific DP/PG ratings, optional weeps/performance package must be ordered.

3 Available only with the full screen option.



# Window World

## 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 appealing beauty of custom-crafted wood windows, without the time-consuming maintenance, with our architecturally coordinated exterior window colors in high-performance finishes.

### Exterior Palette

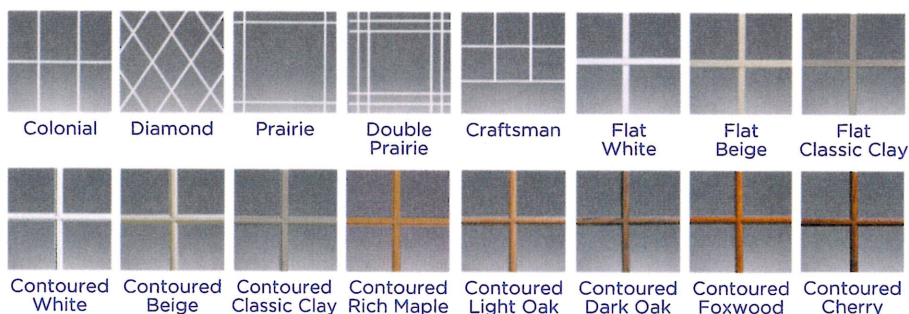


### Interior Palette



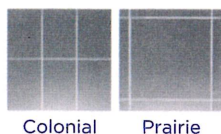
## Interior grids.

Window grids are available in classic colors in the standard configurations of Colonial, Diamond, Prairie, Double Prairie, and Craftsman patterns, all lending themselves to your unique décor. Contoured colonial grids are available in 3/4" and 1" profiles with complementary colors and matching woodgrains.<sup>9</sup>



## Cut glass.

Looking for a touch of elegance that won't obstruct the view? A selection of V-grooved glass patterns is available.



## Simulated divided lite.

Expertly combine distinctive historical window design with the superior quality, energy efficiency, and the convenience of today's advanced technology.



<sup>7</sup> Extruded solid color.

<sup>8</sup> White woodgrain is available with a beige or classic clay base only.

<sup>9</sup> 1" contoured colonial grids are not available in matching woodgrains.

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