

Air Infiltration/drafts is a term used to describe the air leaking into or out of your home through the window frames.

"Reduced air infiltration combined with proper ventilation can not only reduce your energy bills but it can also improve the quality of your indoor air. Outdoor air that leaks indoors makes it difficult to maintain comfort and energy efficiency. In addition, air leakage accounts for 25–40% of the energy used for heating and cooling in a typical home."

The graph shows the amount of air in cubic feet that may come through the window at speeds of 25mph. **



*US Department of Energy www.energy.gov/index.cfm?nav=home_features/low_e/low_e/air_infiltration

**The results are based on a total window sample by AAMA testing window guidelines. Title of Test is: Method: Air Infiltration - ASTM E307-75 IN - (14.pdf) 25 mph

Silicone Nitride Barrier
TiO₂ Optical Filter
Nickel-Chrom Adhesive Barrier
Silver Thermal & Solar Performance
Zinc Oxide Performance Enhancing
TiO₂ Optical Filter
Nickel-Chrom Adhesive Barrier
Silver Thermal & Solar Performance
Zinc Oxide Optical Filter
Titanium Dioxide Optical Enhancing
Silicone Nitride Barrier

ClimaGuard™ heat reflective coatings are microscopically thin layers of metal & metal oxide that act like a filter – some energy is transmitted, some energy is reflected.



ClimaGuard™ heat reflective coating

ClimaGuard™ is a trademark of Guardian Industries Corp.

Our Heatseal® Spacer gives your home excellent thermal efficiency and drastic reduction of condensation.

As much as 15.3 F warmer seal temperature at sightline.

Super Spacer® is a registered trademark of Edgetech LLC, Inc. • Intercept® is a registered trademark of PPG Industries, Inc. DuraSeal™ is a registered trademark of TriSeal Technologies, Inc. • Swiggle™ is a registered trademark of TriSeal Technologies, Inc. Simulation performed by Enermodal engineering, Ltd. using Window 5.2. All air spacers are 0.562" wide 0.033 emittance low-E glass.



OUTSTANDING PERFORMANCE

U-factor measures how well a product prevents heat from escaping. The rate of heat loss is indicated in terms of the **U-factor** (U-value) of a window assembly. **U-Factor** ratings generally fall between 0.20 and 1.20. **The lower the U-value, the greater a window's resistance to heat flow and the better its insulating value.** Please check the **National Fenestration Rating Council (NFRC)** at www.NFRC.org to compare energy performance values. By using this information, builders and homeowners can reliably compare one product with another and make more informed decisions about the windows they buy.



DOUBLE HUNG

SLIDER

PICTURE

THERMAL PERFORMANCE

	Double Hung U-Value	Slider U-Value	Picture U-Value	Energy Star Minimum Northern Climate Zone
DUAL GLAZED				
Energy Saving Package	0.28	0.27	0.27	0.30
Deluxe Package	0.25	0.26	0.24	0.30
TRIPLE GLAZED				
Energy Saving Package	0.21	0.21	0.20	0.30
Deluxe Package	0.19	0.20	0.17	0.30

STRUCTURAL PERFORMANCE

	Double Hung (40x63)	Slider (63x44)	Picture (48x48)	Industry Minimum
DUAL GLAZED				
AAMA Rating	R 50	R 40	R 75	R 15
Air Infiltration (CM/FT ²)	0.02	0.09	< 0.01	0.3
Water Penetration (MPH)	54	59	66	33
Structural Integrity (MPH)	171	153	210	94

U-Value, SHGC, VT, CR values may slightly change for windows made with GBG (Grids Between Glass)

SHGC - Solar Heat Gain Coefficient, **VT** - Visible Transmittance, **CR** - Condensation Resistance, **ESP** - Energy Saving Package

WATER PENETRATION mph - Specifies wind load pressure in mph a window can withstand without leaking, under rain equivalent to 8" per hour.

STRUCTURAL INTEGRITY mph - Wind load in mph the window can withstand before breaking.

All result numbers are based on tested window sample by NFRC and AAMA testing window guidelines. Use for comparison purposes only. Actual values may vary depending on installation, size of the window, and other conditions.

All illustrations, photographs, and specifications in this publication are based on the latest product information available at the time of printing. Some windows shown with optional features. See the actual product for complete accuracy. The manufacturer reserves the right to alter or discontinue any model or specification without notice.

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