



HELPS
Home Energy Loss
Prevention Services

Energy Efficient Windows

Energy Efficient Window Selection

World's Best Window Co.
Millennium 2000+ Casement
Vinyl-Clad Wood Frame
Double Glaze • Argon Fill • Low E

ENERGY Performance

• Energy savings will depend on your specific climate, house and lifestyle
• For more information, call (manufacturer's phone number) or visit NFCR's web site at www.nfrc.org

Technical Information				
Res	U-Factor	Solar Heat Gain Coefficient	Visible Transmittance	Air Leakage
	.32	.45	.58	.3
Non-Res	.31	.45	.60	.3

Manufacturer stipulates that these ratings conform to applicable NFCR procedures for determining whole product energy performance. NFCR ratings are determined for a fixed set of environmental conditions and specific product sizes.

U-Factor

Select windows with a U-factor of 0.35 or less. The lower the U-factor, the more insulated the glass. If you don't have central air conditioning, windows with U-factors as high as 0.40 are also energy-efficient, if the Solar Heat Gain Coefficient is 0.50 or higher. Some double-glazed low-e products have U-factors below 0.30. Some three-layer products have U-factors as low as 0.15.

Solar Heat Gain Coefficient (SHGC)

In our region, to reduce heating, select the highest SHGC you can find, (usually 0.30-0.60), so that winter solar gains can offset a portion of the heating energy need. If you have central air conditioning, select windows with an SHGC less than 0.55.

Visible Transmittance (VT)

The visible transmittance (VT) is an optical property that indicates the amount of visible light transmitted through the glass. VT is expressed as a number between 0 and 1. The higher the VT, the more daylight is transmitted. A high VT is desirable to maximize daylight. Recommendation: Select windows with a higher VT to maximize daylight and view.

Air Leakage (AL)

Heat loss and gain occur by infiltration through cracks in the window assembly. It is indicated by an air leakage rating (AL) expressed as the equivalent cubic feet of air passing through a square foot of window area. The lower the AL, the less air will pass through cracks in the window assembly. Recommendation: Select windows with an AL of 0.30 or less.



To make sure you are purchasing the most energy efficient window, always look for the EnergyStar label.



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