

High Performance Window Program

*Want More From Your Windows? Ask for ENERGY STAR®

ENERGY STAR® qualified windows, doors and skylights save you energy and money, increase the comfort of your home, and protect your valuable possessions from sun damage. They are also better for the environment because lowering your energy use means less air pollution from power plants.



ENERGY STAR®... The symbol for Energy Efficiency!

The ENERGY STAR® label is the symbol for energy efficiency when shopping for windows. The ENERGY STAR® label identifies products that save you money and energy, and help the environment by using less natural resources. The ENERGY STAR® label is awarded to products

meeting efficiency levels established by the U.S. Environmental Protection Agency and the U.S. Department of Energy.

What Makes a Window Energy Efficient?

Multi-pane glass is no longer the main measure of efficiency. For the past two decades, new advance technologies and designs have dramatically improved the performance of the most energy efficient windows. *Glass coatings, gas fills, warm edge spacers and improved framing materials* enable ENERGY STAR® qualified windows to deliver more benefits than simple double paned windows.

In addition, all ENERGY STAR® windows bear the National Fenestration Rating Council (NFRC) label. The NFRC is a non-profit public/private collaboration that provides unbiased energy performance ratings for windows.

On the back page is an example of a NFRC label. All the parts of the label are described, but the U-factor and solar Heat Gain Coefficient (SHGC) are the most important in helping to choose the best window.

Cost

Cost will vary with product and installation issues. Many contractors offer a variety of products so it is wise to get more than one estimate.

Financing

SMUD offers 100% financing* payable over ten years for installations of high performance windows. The following qualifications must be met:

- The residence must be in SMUD's service territory.
- The materials must be installed by a contractor on SMUD's Participating Contractor's List.
- The windows must meet ENERGY STAR's minimum performance factors:

U-factor	.40
SHGC	.40
- The window must bear a NFRC temporary label.

* Interest rates vary, for current rates call 1-888-742-SMUD (7683).

Participating Contractors

Although SMUD does not endorse a specific contractor, we can provide you with a list of contractors who:

- Are licensed to perform the work
- Have the proper insurance coverage and performance bonds
- Have demonstrated experience in this type of work
- Agree to install products and materials which meet SMUD's efficiency requirements and specifications
- Comply with city/county ordinances, where applicable.

Program Eligibility

- Windows must be installed on a residence in SMUD's service territory.
- Windows must be installed by a contractor listed on SMUD's Participating Contractors List.

(More information on back)

**In historic or vintage homes, it may not be appropriate to install new windows. It is important to consider neighborhood requirements and all window options before selecting your window contractor.*



High Performance Window Program *(continued)*

Warranty

Contractors participating in SMUD's Equipment Efficiency Program agree to provide a two-year contractor warranty. The contractors warrant that any products and equipment installed through the program will be free from defects in material, workmanship, and installation for a period of two years from the date of installation. The warranty includes all materials, labor or service calls. After the warranty period has expired, the contractor may bill you for any service calls. **SMUD is not responsible for repairs or service.**

Some window manufacturers offer extended or lifetime warranties on the glass and window components. Please give special attention to the contractor and manufacturer warranty prior to signing a contract. If you have questions, ask your salesperson to explain or check with the manufacturer.

For More Information:

SMUD's Internet address is: www.smud.org

For a list of participating contractors or more information on this or other Residential Equipment Efficiency Programs, call SMUD at 1-888-742-SMUD (7683).

The NFRC insignia is your assurance that this window has been independently rated.

This box contains the name of the Independent Certification and Inspection Agency (IA) selected by the window manufacturer.

The U-factor is a measure of heat transmission due to a temperature difference. The smaller the U-factor, the less heat is transmitted.

National Fenestration Rating Council <small>Incorporated</small>			
AAA Window Company			
<small>Manufacturer stipulates that these ratings were determined in accordance with approved NFRC procedures</small>			
Energy Rating Factors	Ratings		Product Description
	Residential	Commercial	
U Factor <small>Determined in Accordance with NFRC 100</small>	0.40	0.38	Model 1000 Casement Low e=0.2 .5" gap Argon Filled
Solar Heat Gain Coefficient <small>Determined in Accordance with NFRC 200</small>	0.55	0.66	
Visible Light Transmittance <small>Determined in Accordance with NFRC 300 & 301</small>	0.71	0.71	
Air Leakage <small>Determined in Accordance with NFRC 400</small>	0.20	0.21	
NFRC ratings are determined for a fixed set of environmental conditions and sizes and may not be appropriate for directly determining seasonal energy performance. For additional information contact:			

Name of the window manufacturer.

The Solar Heat Gain Coefficient is a measure of the rate of solar heat flow through the window. A lower SHGC will reduce air conditioning energy use.

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Description of the particular product to which this label is attached.

The Visible Light Transmittance value is a measure of visible light that passes through the window. A high VLT will provide more natural daylight in the home.

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Since ratings can vary depending on the typical size of windows in different building types, values are given for both residential and commercial applications.

The Air Leakage rating is a measure of the rate of infiltration through this particular window.