



ENERGY RATING AGENCIES\*\*\*ENERGY RATING RESULTS

**National Fenestration Rating Council**

**NFRC 201-2004**, *Interim Standard Test Method for Measuring the Solar Heat Gain Coefficient of Fenestration Systems Using Calorimetry Hot Box Methods.*

Tensile Tuff Mesh Solar Heat Gain Coefficient	3/16" Glass	.40
Tensile Tuff Mesh Shading Coefficient	3/16" Glass	.46
Solar Heat Gain Coefficient (glass alone)	3/16" Glass	.84
		<b>Improvement 52%</b>

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**NFRC 102-2004**, *Test Procedure for Measuring the Steady-State Thermal Transmittance of Fenestration Systems*

Specimen	U-Factor (Btu/hr*ft <sup>2</sup> *F)	R-Value (hr*ft <sup>2</sup> *F/Btu)	% Reduction Heat Transfer
Base Window	.63	1.58	NA
Base Window & Tensile Tuff Mesh	.56	1.77	<b>10.67%</b>

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**American Standards of Testing Measurements**

**ASTM E 972**, *Standard Test Method for Solar Photometric Transmittance of Sheet Materials Using Sunlight*

**ASTM E 1084**, *Standard Test Method for Solar Transmittance (Terrestrial) of Sheet Materials Using Sunlight*

**American Society of Heating, Refrigerating and Air Conditioning Engineers**

**ASHRAE 74-1988**, *Method of Measuring Solar-Optical Properties of Materials (sec C, D &E)*

Visible Light Transmittance	Percent Reduction	55%
Visible Light Reflectance	Percent Increase	76%
Visible Light Transmittance	Tensile Tuff Mesh over 3/16" Clear Glass	.40
Visible Light Reflectance	Tensile Tuff Mesh over 3/16" Clear Glass	.43
Visible Light Transmittance	3/16" Clear Glass	.88
Visible Light Reflectance	3/16" Clear Glass	.10

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**Window Energy Systems**

**WES 1584**, *Test Procedure for Thermal Transmittance of Window Treatments and Moveable Insulations*

Specimen	Net Btu/hr	U-Factor (Btu/hr*ft <sup>2</sup> *F)	R-Value (hr*ft <sup>2</sup> *F/Btu)	% Reduction Heat Transfer
Single Glazed WES only	654.60	1.08	.92	NA
Tensile Tuff Mesh	572.81	.95	1.05	<b>12.34</b>

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