



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
		Improvement 52%

ATI Report No. 89062.01-301-41

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

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

ATI Report No. 89112.02-301-46

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

ATI Report No. 89062.02-301.41

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

ATI Report No. 891112.01-301-46