



# CLIMA-TITE™ TECHNICAL DATA

## Ultimate Series™ Properties

Impact Strength  
 Burn Extent  
 Ignition Temperature  
 Smoke Density and Flame Spread  
 Taber Abrasion  
 Weathering/Delta E  
 Flexural Strength and Modulus  
 Tensile Strength and Modulus  
 IZOD Impact  
 Barcol Hardness  
 Coefficient of Linear Expansion  
 Thermal Conductivity

## Test Standard

UL 972  
 ASTM D635  
 ASTM D1929  
 ASTM E84  
 ASTM D4060  
 ASTM D2244  
 ASTM D790  
 ASTM D638  
 ASTM D256  
 ASTM D2583  
 ASTM D696  
 ASTM C518

## System Properties

Air Infiltration  
 Structural Performance  
 Water Penetration  
 Finish Performance  
 (AAMA 625 is the fiberglass finish standard comparable to AAMA 2605 for aluminum coatings. Kynar® and other finish options available - contact Major Industries for details)

## Test Standard

ASTM E283  
 ASTM E330  
 ASTM E331  
 AAMA 625

CLIMA-TITE™ - 2.75"	FACE SHEET COLOR COMBINATIONS			
	Exterior Sheet Color / Interior Sheet Color			
	Crystal/ Crystal	Crystal/ White	White/ Crystal	White/ White
<b>CENTER OF PANEL U-FACTOR<sup>1</sup></b>				
No Insulation				0.48
Insul 24				0.20
Insul 15				0.17
IMG 125				0.08
<b>SYSTEM U-FACTOR<sup>2</sup> - Wall System with Pultruded Frame and Enhanced Thermally Broken I-beam</b>				
No Insulation				0.50
Insul 24				0.25
Insul 15				0.22
IMG 125				0.14
<b>LIGHT TRANSMISSION<sup>3</sup></b>				
No Insulation (%)	64	40	31	24
Insul 24 (%)	33	25	21	17
Insul 15 (%)	23	19	17	15
IMG 125 (%)	7	6	5	5
<b>SOLAR HEAT GAIN COEFFICIENT<sup>4</sup></b>				
No Insulation	0.49	0.35	0.31	0.22
Insul 24	0.23	0.20	0.18	0.14
Insul 15	0.20	0.18	0.17	0.13
IMG 125	0.08	0.08	0.06	0.06
<b>CRF<sup>5</sup></b>	91			
<b>UV TRANSMITTANCE</b>	<0.01			
<b>SOLAR TRANSMITTAL (Ts)</b>	.04 - .54			
<b>REFLECTIVE (Rs)</b>	.21 - .73			

<sup>1</sup> Center of panel U-factor values determined by NFRC test methods. For glazing comparisons only.

<sup>2</sup> System U-factor values are for comparative analysis and are determined using NFRC 100-2010 methods and standards, which require simulation and validation testing of both standard and thermally improved assembled wall systems measuring 2000mm x 2000mm (78-3/4" x 78-3/4") consisting of 2 translucent panels, 3 vertical rafters/mullions and perimeter head and sill. Certified test results will be available soon on www.nfrc.org. Contact Major for additional details.

<sup>3</sup> Light Transmission values are based on an incident angle normal to the plane of a representative panel, and are determined using the ASTM E-972 standard.

<sup>4</sup> SHGC values are for comparative analysis and are determined using NFRC 201-2010 methods and standards. SHGC is 87% of the Shading Coefficient at a given solar incidence and has replaced the Shading Coefficient as it is a more accurate method of stating glazing performance in a building envelope. (SC = 1.15 x SHGC)

<sup>5</sup> Condensation Resistance Factor (CRF) values are based on testing performed on thermally broken glazing panels.