



# 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™ -<br>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.