



## SL-16 ALUMINUM DOOR TEST RESULTS

<b>Door Panel</b>
<b>Thermal Transmittance, NFRC 102-2010:</b>
U-Factor = 0.47 Btu/hr·ft <sup>2</sup> ·°F
<b>Indoor Air Quality, ASTM-D5116, ASTM-D6607:</b>
GreenGuard, GreenGuard Gold

<b>Door and Aluminum Tube Frame Assembly</b>
<b>Air Leakage, NFRC 400, ASTM-E283</b>
<i>Opaque Swinging Door (&lt; than 50% glass)</i>
0.08 cfm/sqft @ 1.57 psf infiltration
0.05 cfm/sqft @ 1.57 psf exfiltration
0.18 cfm/sqft @ 6.24 psf infiltration
<b>Structural Performance, ASTM E-330</b>
<i>Single Door, 3'4-1/4" x 7'2-1/4" overall size, single point latching</i>
± 160 psf design pressure, pass
<b>Blast Test, ASTM-F2927</b>
6.9 psi @ 41 psi-msec, minimal hazard, damaged but operable

<b>Door and Thermally Broken Aluminum Frame Assembly</b>
<b>Thermal Transmittance, NFRC 100</b>
<i>Opaque Swinging Door (&lt; than 50% glass)</i>
U-Factor = 0.33 Btu/hr·ft <sup>2</sup> ·°F
<i>Commercially Glazed Swinging Entrance Door (&gt; than 50% glass)</i>
U-Factor = 0.66 Btu/hr·ft <sup>2</sup> ·°F
<b>Air Leakage, NFRC 400, ASTM-E283</b>
<i>Opaque Swinging Door (&lt; than 50% glass)</i>
0.01 cfm/sqft @ 1.57 psf
0.02 cfm/sqft @ 6.24 psf
<i>Commercially Glazed Swinging Entrance Door (&gt; than 50% glass)</i>
0.31 cfm/sqft @ 1.57 psf
0.61 cfm/sqft @ 6.24 psf
<b>Sound Transmission, ASTM-E90:</b>
STC = 26, OITC = 26



AF-150 Framing
Tensile Strength, ASTM-D638: 15,900 psi
Tensile Modulus of Elasticity, ASTM-D638: $1.58 \times 10^6$ psi
Maximum Compressive Strength, ASTM-D695: 15,500 psi
Compressive Modulus of Elasticity, ASTM-D695: $6.7 \times 10^5$ psi
Flexural Strength, ASTM-D790: $39.3 \times 10^3$ psi
Flexural Modulus, ASTM-D790: $1.23 \times 10^6$ psi
Izod Impact, ASTM-D256: 8.1 ft-lb/in
Barcol Hardness, ASTM-D2583: 57
Specific Gravity, ASTM-D792: 1.45 @ 23 °C
Density, ASTM-D792: 1445.6 kg.m <sup>3</sup> @ 23 °C
Coefficient of Linear Expansion, ASTM-D696: $1.26 \times 10^{-5}$ in/in/°F
Short Beam Strength, ASTM-D2344: 3,980 psi
Fastener Withdrawal, ASTM-D1761: 924 lbs
Percent Fiberglass: 60%