

SL-15 ALUMINUM DOOR TEST RESULTS

Door Panel
Thermal Transmittance, NFRC-100-2010:
U-Factor= 0.63 Btu/hr·ft ² ·°F
Indoor Air Quality, ASTM-D5116, ASTM-D6607:
GreenGuard, GreenGuard Gold

Door and Aluminum Tube Frame Assembly
Air Leakage, NFRC 400, ASTM-E283
<i>Commercially Glazed Swinging Entrance Door (> than 50% glass)</i>
0.02 cfm/sqft @ 1.57 psf
0.01 cfm/sqft @ 6.24 psf
Structural Performance, ASTM E-330
<i>Single Door, 3'4-1/4" x 7'1-1/2" overall size, single point latching</i>
± 45 psf design pressure, pass
Impact Test, ASTM-E1886
<i>Single Door, 3'4-1/4" x 7'1-1/2" overall size, single point latching</i>
9 lbs. missile @ 50 fps, minimum 1 impacts, no rips, tears, or penetrations
Blast Test, ASTM-F1642
6.9 psi @ 46 psi-msec, minimal hazard, GSA Performance Condition 2

Door and Thermally Broken Aluminum Frame Assembly
Thermal Transmittance, NFRC 100
<i>Commercially Glazed Swinging Entrance Door (> than 50% glass)</i>
U-Factor = 0.62 Btu/hr·ft ² ·°F
Air Leakage, NFRC 400, ASTM-E283
<i>Commercially Glazed Swinging Entrance Door (> than 50% glass)</i>
0.39 cfm/sqft @ 1.57 psf
0.78 cfm/sqft @ 6.24 psf
Sound Transmission, ASTM-E90:
STC = 30, OITC = 28

AF-150 Framing
Tensile Strength, ASTM-D638: 15,900 psi
Tensile Modulus of Elasticity, ASTM-D638: 1.58 x 10 ⁶ psi
Maximum Compressive Strength, ASTM-D695: 15,500 psi
Compressive Modulus of Elasticity, ASTM-D695: 6.7 x 10 ⁵ psi
Flexural Strength, ASTM-D790: 39.3 x 10 ³ psi



Flexural Modulus, ASTM-D790: 1.23×10^6 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^3 @ 23 °C
Coefficient of Linear Expansion, ASTM-D696: 1.26×10^{-5} in/in/°F
Short Beam Strength, ASTM-D2344: 3,980 psi
Fastener Withdrawal, ASTM-D1761: 924 lbs
Percent Fiberglass: 60%