



## SL-18 COLONIAL WOOD GRAIN FRP/ALUMINUM HYBRID DOOR TEST RESULTS

<b>Door Panel</b>
<b>Indoor Air Quality, ASTM-D5116, ASTM-D6607:</b>
GreenGuard, GreenGuard Gold
<b>Door and Aluminum Tube Frame Assembly</b>
<b>Air Leakage, ASTM-E283:</b>
<i>Opaque Swinging Door (&lt; than 50% glass)</i>
0.05 cfm/sqft @ 1.57 psf
<b>Impact Test, TAS 201:</b>
<i>Single Door, 3'10" x 7'4" overall size, 1-point latching</i>
9 lbs. missile @ 50 fps, minimum 2 impacts, no rips, tears, or penetrations
<b>Static Air Pressure, TAS 202:</b>
<i>Single Door, 3'10" x 7'4" overall size, 1-point latching</i>
± 90 psf design pressure, pass
<b>Forced Entry:</b>
300lb Pull Test, pass
<b>Cyclic Wind Pressure Loading, TAS 203:</b>
<i>Single Door, 3'10" x 7'4" overall size, 1-point latching</i>
± 90 psf design pressure, pass
<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 = 0.32 Btu/hr-ft <sup>2</sup> ·°F
<i>Commercially Glazed Swinging Entrance Door (&gt; than 50% glass)</i>
U-Factor = 0.57 Btu/hr-ft <sup>2</sup> ·°F
<b>Air Leakage, NFRC 400, ASTM-E283</b>
<i>Opaque Swinging Door (&lt; than 50% glass)</i>
0.04 cfm/sqft @ 1.57 psf
0.13 cfm/sqft @ 6.24 psf
<i>Commercially Glazed Swinging Entrance Door (&gt; than 50% glass)</i>
0.36 cfm/sqft @ 1.57 psf
0.43 cfm/sqft @ 6.24 psf
<b>Sound Transmission, ASTM-E90:</b>
STC = 28, OITC = 27



## 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%