



SL-19-1 CONTEMPORARY WOOD GRAIN FRP/ALUMINUM HYBRID DOOR TEST RESULTS

Door Panel
Indoor Air Quality, ASTM-D5116, ASTM-D6607:
GreenGuard, GreenGuard Gold
Door and Thermally Broken Aluminum Frame Assembly
Thermal Transmittance, NFRC 100:
<i>Opaque Swinging Door (< than 50% glass)</i>
U-Factor = 0.31 Btu/hr-ft ² ·°F
<i>Commercially Glazed Swinging Entrance Door (> than 50% glass)</i>
U-Factor = 0.60 Btu/hr-ft ² ·°F
Air Leakage, NFRC 400, ASTM-E283:
<i>Opaque Swinging Door (< than 50% glass)</i>
0.02 cfm/sqft @ 1.57 psf
0.03 cfm/sqft @ 6.24 psf
<i>Commercially Glazed Swinging Entrance Door (> than 50% glass)</i>
0.38 cfm/sqft @ 1.57 psf
0.75 cfm/sqft @ 6.24 psf
Sound Transmission, ASTM-E90:
STC = 30, OITC = 32
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 x 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 x 10 ⁻⁵ in/in/°F
Short Beam Strength, ASTM-D2344: 3,980 psi
Fastener Withdrawal, ASTM-D1761: 924 lbs
Percent Fiberglass: 60%