



SL-17 PEBBLE GRAIN FRP/ALUMINUM HYBRID DOOR TEST RESULTS

Door Panel
Thermal Transmittance, AAMA 1503-98:
U-Factor = 0.29 Btu/hr·ft ² ·°F, CRFp = 55
Indoor Air Quality, ASTM-D5116, ASTM-D6607:
GreenGuard, GreenGuard Gold
Door and Aluminum Tube Frame Assembly
Physical Endurance, ANSI A250.4:
25,000,000 Cycles, No Damage
Salt Spray, ASTM-B117:
500 hours minimum exposure
Air Leakage, NFRC 400, ASTM-E283:
<i>Opaque Swinging Door (< than 50% glass)</i>
0.01 cfm/sqft @ 1.57 psf
0.01 cfm/sqft @ 6.24 psf
<i>Commercially Glazed Swinging Entrance Door (> than 50% glass)</i>
0.38 cfm/sqft @ 1.57 psf
0.73 cfm/sqft @ 6.24 psf
Structural Performance, ASTM E-330:
<i>Single or Pair of Doors, 8'4" x 8'2" overall size, single point latching</i>
± 75 psf design pressure, pass
Impact and Cycle Test, ASTM-E1886:
<i>Single or Pair of Doors, 6'8" x 7'8" overall size, 3-point latching</i>
9 lbs. missile @ 50 fps, minimum 3 impacts, no rips, tears, or penetrations
± 75 psf design pressure, pass
Forced Entry, AAMA 1304:
<i>Single or Pair of Doors, 6'8" x 7'8" overall size, 3-point latching</i>
300lb Pull Test, pass
Impact Test, TAS 201:
<i>Single or Pair of Doors, 6'8" x 7'8" overall size, 3-point latching</i>
9 lbs. missile @ 50 fps, minimum 3 impacts, no rips, tears, or penetrations
Static Air Pressure, TAS 202:
<i>Single or Pair of Doors, 6'8" x 7'8" overall size, 3-point latching</i>
± 65 psf design pressure, pass
Forced Entry, 300lb Pull Test, pass
Cyclic Wind Pressure Loading, TAS 203:
<i>Single or Pair of Doors, 6'8" x 7'8" overall size, 3-point latching</i>

± 65 psf design pressure, pass
Security Test, ASTM-F476:
Minimum Grade 40
Blast Test, ASTM-F1642:
6 psi @ 45 psi-msec, minimal hazard, operable

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 = 0.64 Btu/hr·ft ² ·°F
Air Leakage, NFRC 400, ASTM-E283:
<i>Opaque Swinging Door (< than 50% glass)</i>
0.01 cfm/sqft @ 1.57 psf
0.01 cfm/sqft @ 6.24 psf
<i>Commercially Glazed Swinging Entrance Door (> than 50% glass)</i>
0.38 cfm/sqft @ 1.57 psf
0.73 cfm/sqft @ 6.24 psf
Sound Transmission, ASTM-E90:
STC = 30, OITC = 29

Door and AF-150 Frame Assembly
Thermal Transmittance, NFRC 100:
<i>Opaque Swinging Door (< than 50% glass)</i>
U-Factor = 0.32 Btu/hr·ft ² ·°F.
<i>Commercially Glazed Swinging Entrance Door (> than 50% glass)</i>
U-Factor = 0.57 Btu/hr·ft ² ·°F.
Air Leakage, NFRC 400, ASTM-E283.
<i>Opaque Swinging Door (< than 50% glass)</i>
0.12 cfm/sqft @ 1.57 psf.
0.06 cfm/sqft @ 6.24 psf.
<i>Commercially Glazed Swinging Entrance Door (> than 50% glass)</i>
0.04 cfm/sqft @ 1.57 psf.
0.14 cfm/sqft @ 6.24 psf.

Door and Hollow Metal Steel Frame
Cycle Slam, NWWDA T.M. 7-90.
5,000,000 cycles.
No Operational Damage.
No Hinge Separation.