



# SL-17 Testing

| SL-17  | Test               | Description   | Performance                                |
|--|--------------------|---|--|
|  | ASTM E 283         | Air Infiltration, 3'0"x7'0" single door, pressure differential of 6.27 psf. | Shall not exceed 0.58 cfm per square foot  |
|  | ASTM E 331         | Water Resistance, 3'0"x7'0" single door, pressure differential of 7.50 psf. | No leakage.                                |
|  | ASTM D 6670-01     | Indoor Air Quality  | Greenguard Gold Certification              |
| <b>Hurricane Test Standards - Single Door</b>                              |                    |   |  |
|  | ASTM E 330         | Uniform Structural Load, single door  | Plus or Minus 195 pounds per square foot   |
|  | SFBC 3603.2 (b)(5) | Forced Entry Test, 300 # load applied                                       | Passed                                     |
|  | SFBC PA 203        | Cyclic Load Test  | Plus or minus 53 pounds per square foot    |
|  | SFBC PA 201        | Large Missile Impact Test   | Passed                                     |
| <b>Hurricane Test Standards - Pair of Doors with single point latching</b> |                    |   |  |
|  | ASTM E330          | Uniform Structural Load, door pair  | Plus or Minus 112.5 pounds per square foot |
|  | AAMA 1304          | Forced Entry Test, 300 load applied   | Passed                                     |
|  | ASTM E 1886        | Cyclic Load Test  | Plus or minus 75 pounds per square foot    |
|  | ASTM E 1886        | Large Missile Impace  | Passed                                     |
|  | ASTM F 1642-04     | Blast Test, Doors and Frames, 6 psi/41 pds-msec                             | Minimal Hazard                             |
|  | ANSI A250.4        | Swinging Door Cycle Test, doors and frames                                  | Minimum of 25,000,000 cycles               |
|  | NWWDA T.M. 7-90    | Cycle Slam Test Method  | Minimum of 5,000,000 cycles                |
|  | ASTM F 476         | Swinging Security Door Assembly Test, doors and frames                      | Grade 40                                   |



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|  |              |   |  |
|--|--------------|---|--|
|  | ASTM B 117   | Salt Spray, exterior door and frames  | Minimum of 500 hours                               |
|  | ASTM E 90    | Sound Transmission, exterior doors  | Minimum of 25                                      |
|  | AAMA 1503-98 | Thermal Transmission, exterior doors, U-value. Maximum of 0.29 BTU/hr x sf x degrees F. Minimum of 55 CRF value   | U-Factor .29                                       |
|  | ASTM E 84    | Surfact Burning Characteristics, FRP Doors and Panels<br><br>Flame Spread<br>Smoke Developed  | Maximum of 200, Class C<br>Maximum of 450, Class C |
|  | ASTM E 84    | Surface Burning Characteristics, Class A Option on Interior Faces of FRP Exterior Panels and Both Faces of FR Interior Panels,<br><br>Flame Spread<br>Smoke Developed | Maximum of 25, Class A<br>Maximum of 450, Class A  |
|  | ASTM D 256   | Impact Strength, FRP Doors and Panels, Nominal Value  | 14.0 foot-pounds per inch of notch                 |
|  | ASTM D 638   | Tensile Strength FRP Doors and Panels, Nominal Value  | 13,000 psi   |
|  | ASTM D 790   | Flexural Strength, FRP Doors and Panels, Nominal Value  | 21,000 psi.  |
|  | ASTM D 570   | Water Absorption, FRP Doors and Panels, Nominal Value   | 0.20 percent after 24 hours.                       |
|  | ASTM D 2583  | Indentation Hardness, FRP Doors and Panels, Nominal Value   | 55   |
|  | ASTM D 5420  | Gardner Impact Strength, FRP Doors and Panels, Nominal Value  | 120 in-lb.   |
|  |              | Taber Abrasion Test, Abrasion Resistance, Face Sheet, 25 Cycles at 1,000 Gram Weight with CS-17 Wheel   | Maximum of 0.029 average weight loss percentage    |

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|  |             |  |   |
|--|-------------|--|---|
|  | ASTM D 1308 | Stain Resistance   | Face sheet unaffected after exposure to red cabbage, tea, and tomato acid. Stain removed easily with mild abrasive or FRP cleaner when exposed to crayon and crankcase oil. |
|  | ASTM D 543  | Chemical Resistance<br>1. Acetic acid, concentrated.<br>2. Ammonium Hydroxide, concentrated.<br>3. Citric Acid, 10%.<br>4. Formaldehyde.<br>5. Hydrochloric Acid, 10%<br>6. Sodium hypochlorite, 4 to 6 percent solution | Excellent rating  |
|  | ASTM D 1621 | Compressive Strength, Foam Core, Nominal Value   | 79.9 psi  |
|  | ASTM D 1621 | Compressive Modulus, Foam Core, Nominal Value  | 370 psi   |
|  | ASTM D 1623 | Tensile Adhesion, Foam Core, Nominal Value   | 45.3 psi  |
|  | ASTM D 2126 | Thermal and Humid Aging, 158 degrees F and 100 Percent Humidity for 14 Days  | Minus 5.14 percent volume change  |