

AF-200 COMPOSITE FIBERGLASS DOOR TEST RESULTS

| Pultruded Structural Shapes |
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| Tensile Strength, ASTM-D638: Minimum 30,000 psi. |
| Compressive Strength, ASTM-D695: Minimum 30,000 psi. |
| Flexural Strength, ASTM-D790: Minimum 30,000 psi. |
| Flexural Modulus, ASTM-D790: Minimum 1.6×10^6 psi. |
| Short Beam Shear, ASTM-D2344: Minimum 4,500 psi. |
| Impact, Notched, ASTM-D256: Minimum 25 ft-lb/in. |
| Thermal Expansion, ASTM-D696: Maximum 8.0×10^{-6} psi. |
| Surface Burning, ASTM-E84: Flame Spread ≤ 25 , Smoke Developed ≤ 450 . |
| AF-150 Framing |
| Tensile Strength, ASTM-D638: Minimum 30,000 psi. |
| Compressive Strength, ASTM-D695: Minimum 30,000 psi. |
| Flexural Strength, ASTM-D790: Minimum 30,000 psi. |
| Flexural Modulus, ASTM-D790: Minimum 1.6×10^6 psi. |
| Short Beam Shear, ASTM-D2344: Minimum 4,500 psi. |
| Impact, Notched, ASTM-D256: Minimum 25 ft-lb/in. |
| Thermal Expansion, ASTM-D696: Maximum 8.0×10^{-6} psi. |
| Surface Burning, ASTM-E84: Flame Spread ≤ 25 , Smoke Developed ≤ 450 . |
| Fastener Withdrawal, ASTM-D1761: 924 lbs. |
| Percent Fiberglass: Minimum 50%. |
| Door and AF-150 Frame Assembly |
| PP Polypropylene Honeycomb Core. |
| Thermal Transmittance, NFRC 100. |
| <i>Opaque Swinging Door (< than 50% glass)</i> |
| U-Factor = 0.26 Btu/hr·ft ² ·°F. |
| <i>Commercially Glazed Swinging Entrance Door (> than 50% glass)</i> |
| U-Factor = 0.44 Btu/hr·ft ² ·°F. |
| Air Leakage, NFRC 400, ASTM-E283. |
| <i>Opaque Swinging Door (< than 50% glass)</i> |
| 0.00 cfm/sqft @ 1.57 psf. |
| 0.00 cfm/sqft @ 6.24 psf. |
| <i>Commercially Glazed Swinging Entrance Door (> than 50% glass)</i> |
| 0.04 cfm/sqft @ 1.57 psf. |
| 0.05 cfm/sqft @ 6.24 psf. |



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| STC and OITC, ASTM-E90: |
| STC = 31, OITC = 26. |
| Expanded Polystyrene Core. |
| Thermal Transmittance, NFRC 100. |
| <i>Opaque Swinging Door (< than 50% glass)</i> |
| U-Factor = 0.24 Btu/hr·ft ² ·°F. |
| <i>Commercially Glazed Swinging Entrance Door (> than 50% glass)</i> |
| U-Factor = 0.43 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. |
| 0.06 cfm/sqft @ 6.24 psf. |
| <i>Commercially Glazed Swinging Entrance Door (> than 50% glass)</i> |
| 0.30 cfm/sqft @ 1.57 psf. |
| 0.53 cfm/sqft @ 6.24 psf. |
| STC and OITC, ASTM-E90: |
| STC = 30, OITC = 30. |