

Product Description

Slotted-Z FG, by Cladiator, is a 100% FRP (fiber-reinforced polymer) thermally isolated Z-girt exterior cladding support system with an innovative continuous insulation (CI) securing system; ROCKETStick[®]. Simply slide the ROCKETStick into the Slotted-Z FG slots and the CI is secured without penetrating the air and water resistive barrier layer. Together, the patent-pending system offers superior thermal performance, reduced field installation time, and improved wall cavity performance.

| Approvals/ Standards | Test | Performance | |
|---|--|--|---|
| ASTM E283 ¹ | Air Leakage | Air Infiltration at 6.27 PSF | <0.01 cfm/ft ² |
| | | Air Exfiltration at 6.27 PSF | <0.01 cfm/ft ² |
| ASTM E331 ¹ | Water Penetration | Water Penetration Test @ 15.04 PSF | Pass. No Leakage. |
| ASTM E330 ¹ | Uniform Load Deflection (at the center of the panel) | +4788 Pa (+100.0 PSF) | 10.92 mm (0.43") |
| | | +6943 Pa (+145.0 PSF) | 25.91 mm (1.02") |
| | Uniform Load Structural (permanent set at the center of the panel) | +4788 Pa (+100.0 PSF) -4070 Pa (-85.0 PSF) | 1.02 mm (0.04") 2.03 mm (0.08") |
| | | +6943 Pa (+145.0 PSF) -5506 Pa (-115.0 PSF) | 4.57 mm (0.18") 15.24 mm (0.60") |
| Gravity Load Testing (Uniform Distributed Static Vertical Load) | Gravity Load Testing, Permanent Set | @ 3035 Pa 50 PSF | 0.254 mm (0.01") |
| | Gravity Load Testing, Deflection | @ 3035 Pa 50 PSF | 0.508 mm (0.02") |
| NFPA 285 ² | Fire Test - Exterior Non-Load-Bearing Wall Assembly | | Pass |
| CAN/ULC-S134 | Standard Method of Fire Test of Exterior Wall Assemblies | | Pass |
| Thermal Performance | The Effectiveness of The Overall Assembly - Exterior Insulated Steel Stud Wall | 2" mineral wool 4" mineral wool | Fiberglass standard performance is 95-99% effective |
| Screw Pullout Load ³ | ASTM D1761 | 866 lbf (392.8 kgf) | |
| Bearing Load ³ | ASTM D5961 (Proc. A) | 1438 lbf (652.3 kgf) | |
| Screw Head Pull-Through Load ³ | ASTM D7332 (Proc. B) | 1645 lbf (746.2 kgf) | |

¹ Using CL-580 CLADIATORS ACM Panel.

² Tested using Nichiha AWP 3030 Fiber Cement Panels

³ Tested using #14 hex head 3" self-drilling, galvanized screws on Cladiator 5" Slotted-Z FG. Complete test report available upon request.

^{1,2} All test results provided by Intertek.

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| SLOTTED-Z® FG PROFILE | | | |
|--------------------------------|--------------------|-----------------------------|---------------------------|
| Property | Test Method | Minimum Requirements | Tested Performance |
| Barcol hardness | ASTM D-2583 | 45 | 62 |
| Section compression test | Full Section Test | 2,500,000 psi | 3,451,898 psi |
| Tension modulus axial | ASTM D-638 | 2,490,000 psi | 2,683,198 psi |
| Tension strength axial | ASTM D-638 | 30,000 psi | 60,654 psi |
| Compressive Modulus axial | ASTM-D695 | 2,490,000 psi | 3,451,898 psi |
| Compressive Modulus transverse | ASTM-D695 | 1,000,000 psi | 1,812,971 psi |
| Compressive Stress axial | ASTM-D695 | 30,000 psi | 47,427 psi |
| Compressive Stress transverse | ASTM-D695 | 15,000 psi | 20,464 psi |
| Pin-bearing strength axial | ASTM D-953 | 30,000 psi | 39,957 psi |
| Flexural strength axial | ASTM D-790 | 30,000 psi | 71,605 psi |
| Flexural modulus axial | ASTM D-790 | 1,500 psi | 3,306 psi |
| Water absorption test | ASTM D-570 | Max 0.6% | 0.025% |
| Fire Resistant Test | ASTM-84 | Max 25 | 10 |
| Density | ASTM D-792 | | 112 lb/ft ³ |
| Shear Modulus | Full Section Test | 420 psi | 690 psi |
| Short beam shear | ASTM-D2344 | 4,500 psi | 4,517 psi |

*Tests have been performed according to CTI-137 standard