

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
ASTM C518-21 ⁴	Thermal Conductivity & Resistance	0.149 W/(m·K) Mean temp. 24.29°C	0.041 (m ² ·K)/W Thickness 6.04 mm
ASTM E831-25 ⁴	Linear Thermal Expansion Coefficient	Average over 30°C-150°C	4.7 µm/(m·°C)
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. ⁴ ASTM C518-21 / ASTM E831-25: Report TURT260021040.

Issued Date: AUG19-2026
Supersedes Version Dated: JAN04-2023



Document Number: 5.07.F.06

Date of Issue: 10.06.2023

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 modules 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 Resistance Test (Flame/Smoke Index)	ASTM E-84	Max 25, 450	5, 450
Density	ASTM D-792		112 lb/ft³
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