POWERWOOL™
MINERAL WOOL INSULATION

powerwoolinsulation.com
107-3757 190th St, Surrey, BC Canada V3Z 0P6
T 604-542-9926 | TF 1-877-337-2802 | F 604-542-9927

Cavityboard™ HD

Physical Properties Data Sheet

PowerWool™ Cavityboard™HD is a higher-density mineral wool insulation board designed for ventilated rainscreen and exterior cavity wall assemblies requiring increased compressive strength, continuous insulation, and dependable fire performance.

Approved for use in Canada and the USA

CHARACTERISTIC	RESULT	TEST STANDARD
Compliance	Mineral Fiber Block and Board Thermal Insulation - Compliant Mineral Fiber Thermal Insulation for Buildings - Compliant	ASTM C612 CAN/ULC S702.1
Reaction to Fire	Flame spread index = 0; Smoke developed index = 0 Flame spread index = 0; Smoke developed index = 0 Determination of Non Combustability of Building Materials - Non Combustible Behaviour of materials at 750°C - Non Combustible	ASTM E84 (UL 723) CAN/ULC S102 CAN/ULC S114 ASTM E136
Density	6 lbs/ft^3 (100 kg/m^3) - Actual	ASTM C303
Dimensional Stability	Linear Shrinkage = Pass @1200°F (650°C)	ASTM C356
Corrosion Resistance	Corrosion of Steel - Passed	ASTM C665
Thermal Resistance	R-Value / inch @ 75°F — 4.2 hr.ft^2.F/Btu RSI value / 25.4 mm @ 24°C — 0.74 m^{2}K/W	ASTM C518
Reaction to Moisture	Moisture Sorption - Pass Water Vapor Transmission, Desiccant Method - 1670ng/Pa.s.m^2 (29 perm) Determination of Fungi Resistance - Passed	ASTM C1104 ASTM E96 ASTM C1338
Dimensions	1 ½" (38 mm) to 6" (152.4 mm) in ½" increments 16" x 48" (406 mm x 1219mm) 24" x 48" (610 mm x 1219 mm)	
Acoustic Performance	(see table below)	ASTM C423-23 ASTM E795-23

	125Hz	250Hz	500Hz	1000Hz	2000Hz	4000Hz	NRC	SAA
1.5"	0.09	0.47	0.97	1.04	0.99	0.98	0.85	0.88
2"	0.26	0.88	1.12	1.06	0.99	1.00	1.00	1.01
2.5"	0.39	1.06	1.15	1.06	1.02	1.07	1.05	1.06
3"	0.57	1.12	1.14	1.03	1.02	1.02	1.10	1.07
4"	0.76	1.13	1.09	1.03	1.01	1.04	1.05	1.06

Suitable for substitution in approved ASTM E119 1-hour and 2-hour fire-rated wall assemblies and approved NFPA 285 exterior wall assemblies.*

**Per Priest & Associates Engineering Evaluation Letter EEL-11851 Rev. 2.*

For exterior use only. Not for interior walls.

EVALUATED TO:	
CAN/ULC S702.1 Type 1 Compliant	ASTM C612 Type IVB Compliant
CAN/ULC S102 FSI: 0 SDI: 0	ASTM E84 (UL 723) FSI: 0 SDI: 0
CAN/ULC S114 Classified Non-Combustible	ASTM E136 Classified Non-Combustible
ASTM C1338 Does not support fungi growth.	

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FILE: B1124

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