POWERWOOL™
MINERAL WOOL INSULATION

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Rigiboard™ 80 R4.2/in

Physical Properties Data Sheet

PowerWool™ RigiBoard™ 80 is a rigid mineral wool insulation board designed for continuous exterior insulation in residential wall assemblies, delivering fire resistance, moisture tolerance, and long-term thermal performance.

Approved for use in Canada and the USA

CHARACTERISTIC	RESULT	TEST STANDARD
Density	8 lbs/ft³ (128 kg/m³)	CAN/ULC S702.1
Compression Resistance	616 psf (29.5 kPa) @ 10% Deformation	ASTM C165-07 (2017)
Thermal Resistance	R value/inch @ 75°F = 4.2 ft² F/Btu (min)* RSI value/25.4 mm @ 24°C = 0.74 m²K/W (min)	ASTM C518-17 ASTM C518-17
Maximum Service Temperature	Hot Surface Performance: 1200°F (650°C)	ASTM C411
Non-Combustibility	Pass	CAN/ULC S114-05 (2018)
Surface Burning Characteristics	Flame Spread Classification = 0 (Pass) Smoke Developed = 0 (Pass)	CAN/ULC S102-16 CAN/ULC S102-16
Smolder Resistance	Mean Mass Loss, % = 0 (Pass) Mass Loss Each Specimen, % = 0 (Pass)	CAN/ULC S129-15
Water Vapour Permeance, Desiccant Method	2029 ng/Pa.s.m² (35.6 perm) (at 38mm (1.5") thickness)	ASTM E96M-16
Water Vapor Sorption	0.05%	ASTM C1104-13A
Fungi Resistance	Pass	ASTM C1338-08
Corrosiveness	Corrosiveness to Steel - Pass Corrosiveness to Aluminum - Pass	ASTM C665-17 ASTM C665-17
Dimensional Stability/ Linear Shrinkage	Pass	ASTM C356-17
Acoustic Performance	See table below	ASTM C423-23 ASTM E795-23

	125Hz	250Hz	500Hz	1000Hz	2000Hz	4000Hz	NRC	SAA
1.5"	0.14	0.59	1.01	1.04	0.99	1.03	0.90	0.91
2"	0.29	0.93	1.06	1.00	0.98	1.04	1.00	0.99
2.5"	0.46	1.06	1.11	1.03	0.99	0.99	1.05	1.04
3"	0.69	0.99	1.01	0.99	0.98	1.00	1.00	0.99
4"	0.98	0.93	0.98	0.99	0.99	0.99	0.95	0.97

** Like most exterior rigid insulations, thermal values may decrease up to 1% per inch of thickness.*

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.	

QAI® US
FILE: B1124

CCMC ÉVALUATION 14061-L

Approved per CCMC Listing #14061-L & CAN/ULC S702.1

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