

Rigiboard™ ONE R4/in

Physical Properties Data Sheet

PowerWool™ Rigiboard™ ONE is a continuous, non-structural and non-combustible rigid mineral wool insulation sheathing board designed to increase the effective thermal value of exterior walls. **Rigiboard™ ONE** is an ideal choice for heavy-duty claddings and structures.



Approved for use in
Canada and the USA

CHARACTERISTIC	RESULT	TEST STANDARD
Density	9 lbs/ft ³ (140 kg/m ³)	CAN/ULC S702.1
Compression Resistance	689 psf (33 kPa) @ 10% Deformation	ASTM C165-07 (2017)
Thermal Resistance	R value/inch @ 75°F = 4 ft ² F/Btu (min)* RSI value/25.4 mm @ 24°C = 0.70 m ² K/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.m ² (35.6 perm) (at 38mm (1.5") thickness)	ASTM E96M-16
Water Vapor Sorption	0.05%	ASTM C1104-13A
Water Absorption	0.11% by volume / 0.88% by weight	ASTM C209-14
Fungi Resistance	Pass	ASTM C1338-08
Corrosiveness	Pass	ASTM C665-17
Dimensional Stability/ Linear Shrinkage	Pass	ASTM C356-17
Acoustic Performance	125Hz 250Hz 500Hz 1000Hz 2000Hz 4000Hz NRC SAA	
	1.5" 0.17 0.71 0.98 0.98 0.94 0.98 0.90 0.90	ASTM C423-23 ASTM E795-23
	2" 0.36 0.88 0.95 0.94 0.94 0.99 0.95 0.92	
	2.5" 0.47 0.98 1.04 1.01 0.99 1.05 1.00 1.00	
	3" 0.70 0.97 0.98 0.99 0.99 1.07 1.00 0.99	
4" 0.90 0.86 0.96 0.97 0.98 1.07 0.95 0.95		

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.	



FILE: B1124

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



! For exterior use only. Not for interior walls.

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