PowerWool™
RIGID MINERAL WOOL INSULATION

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# PowerWool™ RIGIBOARD™ 80

R4.2/in

## Physical Properties Data Sheet

**PowerWool™ RigiBoard™ 80** is a continuous, non-structural and non-combustible rigid mineral wool insulation sheathing board designed to increase the effective thermal value of exterior walls. With compression strength more than 40% greater than the leading competitive product, **Rigiboard™ 80** is an ideal choice for lightweight claddings and structures including combustible assemblies.

*Approved for use in Canada and the USA*

| CHARACTERISTIC | RESULT | TEST STANDARD |
|---|---|---|
| Density | 8 lbs/ft$^3$ (128 kg/m$^3$) | CAN/ULC S702 |
| Compression Resistance | 616 psf (29.5 kPa) @ 10% Deformation | ASTM C165-07 (2017) |
| Thermal Resistance | R value/inch @ 75°F = 4.2 ft$^2$ F/Btu (min)*<br>RSI value/25.4 mm @ 24°C = 0.74 m$^2$K/W (min) | ASTM C518-17<br>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)<br>Smoke Developed = 0 (Pass) | CAN/ULC S102-16<br>CAN/ULC S102-16 |
| Smolder Resistance | Mean Mass Loss, % = 0 (Pass)<br>Mass Loss Each Specimen, % = 0 (Pass) | CAN/ULC S129-15 |
| Water Vapour Permeance, Desiccant Method | 2029 ng/Pa.s.m$^2$ (35.6 perm)<br>(at 38mm (1.5") thickness) | ASTM E96M-16 |
| Water Vapor Sorption | 0.05% | ASTM C1104-13A |
| Fungi Resistance | Pass | ASTM C1338-08 |
| Corrosiveness | Pass | ASTM C665-17 |
| Dimensional Stability/ Linear Shrinkage | Pass | ASTM C356-17 |

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

| EVALUATED TO: | |
|---|---|
| CAN/ULC S702<br>Type 1 Compliant | ASTM C612<br>Type IVB Compliant |
| CAN/ULC S102<br>FSI: 0<br>SDI: 0 | ASTM E84<br>FSI: 0<br>SDI: 0 |
| CAN/ULC S114<br>Classified Non-Combustible | ASTM E136<br>Classified Non-Combustible |
| ASTM C1338<br>Does not support fungi growth. | |

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FILE: B1124

*Approved per CCMC Listing #14061-L & CAN/ULC S702.1-14 R2021*

CCMC ÉVALUATION 14061-L

*For exterior use only. Not for interior walls.*