

General Product Information:

ROXUL[®] products are mineral wool fibre insulations made from basalt rock and slag. This combination results in a non-combustible product with a melting point of approximately 2150°F (1177°C), which gives it excellent fire resistance properties. ROXUL mineral wool is a water repellent yet vapor permeable material.

Description & Common Applications:

ROCKBOARD[®] PG is a semi-rigid mineral wool insulation board that is non-combustible, water repellent, fire resistant, sound absorbent and features low thermal conductivity. This product is fabricated with a white polypropylene PSP facing on one surface which can be pin perforated for vapor permeable assemblies. ROCKBOARD[®] PG is designed specifically for parking garage under decking applications.

Compliance and Performance:

ASTM C 612	Mineral Fiber Block and Board Thermal Insulation	Type IVA, Complies
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Fire Performance:

ASTM E 136 CAN/ULC-S114	Behaviour of Materials at 750°C (1382°F) Test for Non-Combustibility	Non-Combustible Non-Combustible
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ASTM E 84 (UL 723) - unfaced	Surface Burning Characteristics	Flame Spread = 0 Smoke Developed = 0
ASTM E 84 (UL 723) - PSP facing	Surface Burning Characteristics	Flame Spread = 25 Smoke Developed = 50

CAN/ULC-S102 - unfaced	Surface Burning Characteristics	Flame Spread = 0 Smoke Developed = 0
CAN/ULC-S102 - PSP facing	Surface Burning Characteristics	Flame Spread = 25 Smoke Developed = 50

Dimensional Stability:

ASTM C 356	Linear Shrinkage	0.35% @ 1200°F (650°C)
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Moisture Resistance:

ASTM C 1104	Moisture Sorption	0.03%
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Water Vapor Permeance:

ASTM E 96	Water Vapor Transmission, Desiccant Method	
- unfaced		>1715 ng/Pa.s.m ² (>30 Perm)
- with PSP facing		1.2 ng/Pa.s.m ² (0.02 Perm)
- with pin perforated PSP facing		>575 ng/Pa.s.m ² (>10 Perm)

Fungi Resistance:

ASTM C 1338	Determination of Fungi Resistance	Passed
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Thermal Resistance:

ASTM C 518 (C 177)	R-value/inch @ 75°F RSI value/25.4 mm @ 24°C	4.1 hr.ft ² .F/Btu 0.72 m ² K/W
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Corrosive Resistance:

ASTM C 665	Corrosiveness to Steel	Pass
ASTM C 795 ***	Stainless Steel Stress Corrosion Specification as per Test Methods C871 and C692: U.S. Nuclear Regulatory Commission, Reg. Guide #1.36: U.S. Military Specifications MIL-I-24244 (all versions including B and C)	Conforms

