

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

Fire Performance:

ASTM E 136 Behaviour of Materials at 750°C (1382°F) Non-Combustible
CAN/ULC-S114 Test for Non-Combustibility Non-Combustible

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)

Moisture Resistance:

ASTM C 1104 Moisture Sorption 0.03%

Water Vapor Permeance:

ASTM E 96 Water Vapor Transmission, Desiccant Method
- unfaced >1715 ng/Pa.s.m² (>30 Perm)
- with PSP facing 1.2 ng/Pa.s.m² (0.02 Perm)
- with pin perforated PSP facing >575 ng/Pa.s.m² (>10 Perm)

Fungi Resistance:

ASTM C 1338 Determination of Fungi Resistance Passed

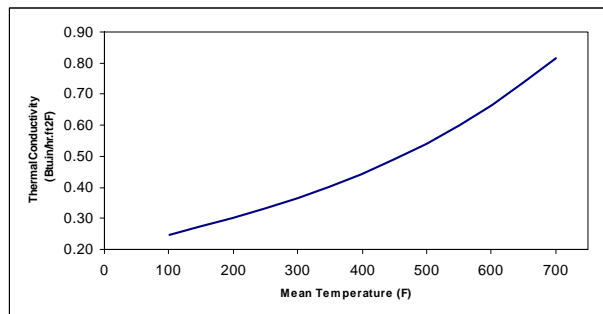
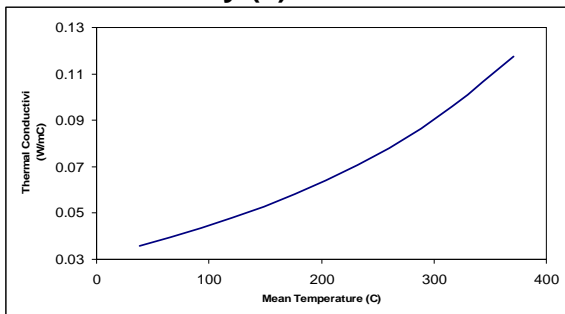
Thermal Resistance:

ASTM C 518 (C 177) R-value/inch @ 75°F 4.1 hr.ft².F/Btu
RSI value/25.4 mm @ 24°C 0.72 m²K/W

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

Thermal Conductivity (k):



Acoustical Performance:

ASTM C 423 CO-EFFICIENTS AT FREQUENCIES							
Thickness	125 Hz	250 Hz	500 Hz	1000 Hz	2000 Hz	4000 Hz	NRC
1.0"	0.08	0.23	0.66	0.93	1.02	1.02	0.70
1.5"	0.15	0.47	0.98	1.06	1.02	1.02	0.90
2.0"	0.26	0.68	1.14	1.13	1.06	1.07	1.00
3.0"	0.62	1.03	1.20	1.10	1.08	1.10	1.10
4.0"	1.07	1.01	1.07	1.06	1.07	1.06	1.05

Compressive Strength:

ASTM C 165 at 10% 70 psf (3.4 kPa)
at 25% 210 psf (10 kPa)

Density:

ASTM C 612-00- actual 3.5 lb/ft³ 56 kg/m³

Dimensions:

24" (width) x 48" (length)

610 mm (width) x 1219 mm (length)

36" (width) x 48" (length)

914 mm (width) x 1219 mm (length)

Thickness:

Available in 2" to 4" in ½" increments and 5"

Key Application Qualifiers:

- Easily cut
- Non-combustible
- Excellent sound absorbency
- Chemically inert
- Does not rot or sustain vermin
- Does not promote growth of fungi or mildew
- Low moisture sorption
- Water resistant
- CFC and HCFC free product and process
- Made from natural & recycled materials

Other ROXUL Products:

Please consult ROXUL for all your insulation needs. We have an extensive range of products for all applications from pipe insulation to commercial products to residential batts. ROXUL invites all inquiries and will act promptly to service all of your requirements.

*** "Provisions for lot testing may be required, consult manufacturer."

Note:

As ROXUL Inc. has no control over installation design and workmanship, accessory materials or application conditions, ROXUL Inc. does not warranty the performance or results of any installation containing ROXUL Inc's. products. ROXUL Inc's. overall liability and the remedies available are limited by the general terms and conditions of sale. This warranty is in lieu of all other warranties and conditions expressed or implied, including the warranties of merchantability and fitness for a particular purpose.