

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 vapour permeable material.

Description & Common Applications:

The RockBoard™ 80 product is a rigid mineral wool insulation board that is non-combustible, water repellent, fire resistant and sound absorbent. This product is a general all purpose board has low thermal conductivity. Superior compressive resistance translates into excellent site durability. This board can also be fabricated to different dimensions while still retaining fire, water and thermal properties.

Compliance and Performance:

ASTM C 612 Mineral Fiber Block and Board Thermal Insulation Type IVB, Complies

Fire Performance:

ASTM E 136	Behaviour of Materials at 750°C (1382°F)	Non-Combustible
CAN4 S114	Test for Non-Combustibility	Non-Combustible
ASTM E 84(UL 723)	Surface Burning Characteristics	Flame Spread = 5
		Smoke Developed = 10
CAN/ULC S102	Surface Burning Characteristics	Flame Spread = 5
		Smoke Developed = 10

Maximum Service Temperature:

ASTM C 411 Hot Surface Performance In Compliance with
ASTM C612 @ 1200°F(650°C)

Dimensional Stability:

ASTM C 356 Linear Shrinkage 0.41 % @ 1200°F (650°C)

Moisture Resistance:

ASTM C 1104 Moisture Sorption 0.05%

Fungi Resistance

ASTM C1338 Determination of Fungi Resistance Passed

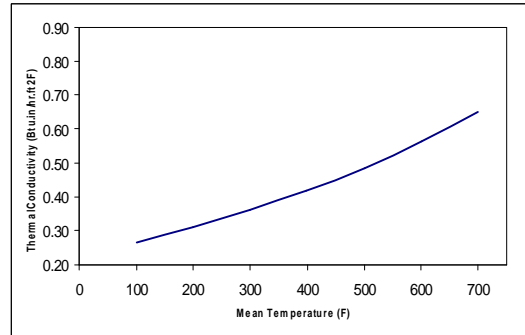
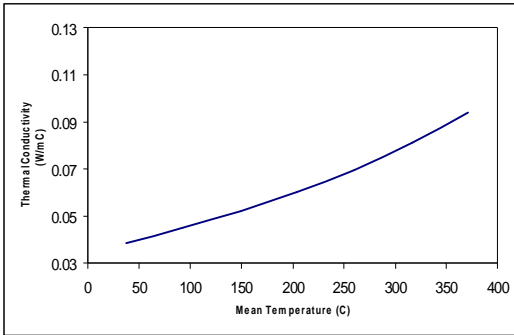
Thermal Resistance:

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 m²KW

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 C423
CO-EFFICIENTS AT FREQUENCIES**

Thickness	125 Hz	250 Hz	500 Hz	1000 Hz	2000 Hz	4000 Hz	NRC
1.0"	0.11	0.31	0.82	1.01	1.02	1.01	0.80
1.5"	0.21	0.64	0.92	1.00	0.95	1.01	0.90
2.0"	0.43	0.78	0.90	0.97	0.97	1.00	0.90
3.0"	0.75	0.82	0.89	0.94	1.00	1.00	0.90

Compressive Strength:

ASTM C 165 at 10% 353 psf (16.9 kPa)
 at 25% 794 psf (38 kPa)

Density:

ASTM C 612-00 – Actual 8.0 lbs/ft³ 128 kg/m³

Dimensions:

24" (width) x 48" (length)
610 mm (width) x 1219 mm (length)

Thickness:

Product is available in 1" through 4" in half inch increments as well as a 5" offering

For additional sizes, please contact our customer service representatives.

Facing:

This product can be faced with reinforced foil facing. Please note that the facings will influence the product's service temperature range.

Key Application Qualifiers:

- Good compressive strength
- Low moisture sorption
- Durability
- Ease of application
- Fire resistance
- Excellent thermal resistance
- Can be fabricated/laminated
- Non-corrosive
- Chemically inert
- 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.