

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:

ROXUL SAFE[®] product is a noncombustible, lightweight and water repellent semi-rigid insulation batt that provides fire stopping and acoustical insulation properties. Specifically engineered and produced as a fire stopping material for commercial, industrial and residential buildings, ROXUL SAFE can be used for the following applications:

- perimeter gaps between concrete floor slabs and exterior wall systems,
- around conduit pipe and duct openings through walls and floor slabs,
- between fire walls and ceiling slabs.

This product has excellent fire performance properties, such as high melt temperature and low thermal conductivity which means the insulation acts as a shield against fire and temperature. In addition, ROXUL products are subject to minimal shrinkage in the critical phase of a fire, so the insulation layers remain in place to better prohibit the spread of flame. ROXUL SAFE is intended to be used in conjunction with a fire stop sealant to prevent the passage of fire and smoke.

Compliance and Performance:

| | | |
|-----------------------------|--|--------------------|
| ASTM C 612 | Mineral Fiber Block and Board Thermal Insulation | Type IVA, Complies |
| CAN/ULC-S115 | Fire Tests of Firestop Systems | Complies |
| ASTM E 814 (UL 1479) | Fire Tests of Penetration Firestop Systems | Complies |
| UL 2079 | Tests for Fire Resistance of Building Joint Systems | Complies |
| ASTM E 2307/E 119 | Perimeter Fire Barrier Systems | Complies |
| MEA Approval | New York City Approval | 339-97-M |
| UL and Intertek Design Nos. | Consult UL and Intertek directory for numerous approved fire rated joint systems, through penetration designs and perimeter fire containment listings, or contact ROXUL for further information. | |

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) | Surface Burning Characteristics | Flame Spread = 0 |
| | | Smoke Developed = 0 |
| CAN/ULC-S102 | Surface Burning Characteristics | Flame Spread = 0 |
| | | Smoke Developed = 0 |

Smoulder Resistance:

| | | |
|--------------|---------------------|--------|
| CAN/ULC-S129 | Smoulder Resistance | 0.01 % |
|--------------|---------------------|--------|

Moisture Resistance:

| | | |
|-------------|-------------------|--------|
| ASTM C 1104 | Moisture Sorption | 0.04 % |
|-------------|-------------------|--------|

Corrosive Resistance:

| | | |
|-----------------|---|----------|
| ASTM C 665 | Corrosiveness to Steel | Pass |
| ASTM C 795 **** | Stainless Steel Stress Corrosion Specification as per Test Methods C 871 and C 692: U.S. Nuclear Regulatory Commission, Reg. Guide #1.36: U.S. Military Specifications MIL-I-24244 (all versions including B and C) | Conforms |

Acoustical Performance:

| ASTM C 423 CO-EFFICIENTS AT FREQUENCIES | | | | | | | |
|--|--------|--------|--------|---------|---------|---------|------|
| Thickness | 125 Hz | 250 Hz | 500 Hz | 1000 Hz | 2000 Hz | 4000 Hz | NRC |
| 2.0 | 0.26 | 0.68 | 1.12 | 1.10 | 1.03 | 1.04 | 1.00 |
| 3.0 | 0.63 | 0.95 | 1.14 | 1.01 | 1.03 | 1.04 | 1.05 |
| 4.0 | 1.03 | 1.07 | 1.12 | 1.04 | 1.07 | 1.08 | 1.10 |

Compressive Strength:

ASTM C 165 at 10% 145 psf (7 kPa)

Density:

ASTM C 612-00 Actual 4.5 lb/ft³ 72 kg/m³

Dimensions:

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

Thickness:

Product thickness is available in 2", 3" and 4"

For additional sizes, please contact our customer service representatives.

Key Application Qualifiers:

- Easily cut
- Noncombustible
- 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

Facing:

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

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.

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