

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 AFB[®] (Acoustical Fire Batt) is a batt insulation product designed specifically for application in wall/floor systems where acoustical performance and fire resistance are the primary concerns. This noncombustible lightweight product has excellent acoustical dampening properties and is dimensionally stable which makes it ideal for friction fit into wall partitions and system applications from party walls to plant/manufacturing walls. The product is chemically inert which means that it will not promote corrosion. The AFB product comes in a number of thicknesses to meet the requirements of both retrofit and new construction applications.

Compliance and Performance:

| | | |
|------------------------------|--|------------------|
| CAN/ULC-S702-09 | Mineral Fibre Thermal Insulation for Buildings | Type 1, Complies |
| ASTM C 665 | Mineral-Fiber Blanket Thermal Insulation | Type 1, Complies |
| ASTM C 553 | Mineral Fiber Blanket Thermal Insulation | Complies |
| MEA Approval | New York City Approval | 338-97-M |
| City Of Los Angeles approval | | RR 25444 |
| ULC Design Nos. | U311, W406, W408, W419, W423, W440, W441, W442, W508, W600, Z500 | |
| UL Design Nos. | U305, U311, U317, U411, U412, U448, U465, V417, V418, V419 | |

Fire Performance:

| | | |
|--------------------|--|---------------------|
| CAN/ULC-S114 | Test for Non-Combustibility | Non-Combustible |
| ASTM E 136 | Behaviour of Materials at 750°C (1382°F) | Non-Combustible |
| CAN/ULC-S102 | Surface Burning Characteristics | Flame Spread = 0 |
| | | Smoke Developed = 0 |
| ASTM E 84 (UL 723) | Surface Burning Characteristics | Flame Spread = 0 |
| | | Smoke Developed = 0 |
| CAN/ULC-S129 | Smoulder Resistance | 0.09% |

Acoustical Performance:

| | | |
|-------------|--|--------|
| ASTM E 90 | Airborne Sound Transmission Loss | Tested |
| ASTM E 413 | Rating Sound Insulation | Tested |
| ASTM C 423 | Sound Absorption Coefficients | Tested |
| ASTM E 1050 | Impedance and Absorption of Acoustical Materials (Please contact ROXUL for Rated Wall System Designs) | Tested |

Air Erosion:

| | | |
|--------|----------------------|---------------------|
| UL 181 | Maximum Air Velocity | 1000 fpm (5.08 m/s) |
|--------|----------------------|---------------------|

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 |

ROXUL AFB

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" | 0.14 | 0.25 | 0.65 | 0.90 | 1.01 | 1.01 | 0.70 |
| 1.5" | 0.18 | 0.44 | 0.94 | 1.04 | 1.02 | 1.03 | 0.85 |
| 2.0" | 0.28 | 0.60 | 1.09 | 1.09 | 1.05 | 1.07 | 0.95 |
| 3.0" | 0.52 | 0.96 | 1.18 | 1.07 | 1.05 | 1.05 | 1.05 |
| 4.0" | 0.86 | 1.11 | 1.20 | 1.07 | 1.08 | 1.07 | 1.10 |

Density:

2.8 lb/ft³ 45 kg/m³

Dimensions:

16" (width) x 48" (length)
413 mm (width) x 1219 mm (length)

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

Thickness:

Product thickness is available in 1" to 4" with 1/2" increments as well as 5" and 6" offerings.

For additional sizes, please contact ROXUL by phone at 1-800-265-6878.

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.

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