

Roxul MonoBoard® Plus



A high-density, bitumen-coated, mineral wool insulation board for flat roofing applications

FEATURES

- Fire resistant
- Dimensionally stable
- High impact resistance
- Low moisture sorption
- Non-corrosive
- Stable R-value
- Excellent acoustical properties
- Made from natural & recycled materials

BENEFITS

- Non-combustible
- Will not warp or cup
- Can contribute to earning LEED® points

DESCRIPTION:

MonoBoard Plus is a high-density, bitumen-coated stone wool commercial insulation board for low slope roof applications. It is used as a coverboard to provide a suitable substrate for membranes as well as additional thermal resistance. It is suitable for torch, hot-mopped or self-adhered membranes. Additionally, this non-combustible insulation is highly durable and environmentally sustainable.

BASIC USES:

Designed for use as a commercial and industrial low-slope roof insulation coverboard, MonoBoard Plus is suitable for both new building and re-roofing applications with torched, hot-mopped or self-adhered membranes. It is also suitable for use in tapered systems and fabrication.

SIZES:

It is available as a 1.04" thick board to provide a R4/in at a mean 75°F, which increases at colder temperatures and decreases slightly at warmer temperatures. This can help reduce the thickness of the thermal insulation used in the rest of the roof system.

LIMITATIONS:

GENERAL APPLICATION DATA:

PHYSICAL PROPERTIES:

Performance Compliance	Test Standard
Standard Specification for Mineral Fiber Roof Insulation Boards Approval Standard for Single Ply, Polymer Modified Bitumen Sheet, Built-Up Roof and Liquid Applied Roof Assemblies for use in Class 1 and Noncombustible Roof Deck Construction NCC (Non Combustible Core) Rated Roof Insulation	ASTM C726*** FM 4470
Reaction to Fire	
Flame spread index = 0 ; Smoke developed index = 0	ASTM E84 (UL 723)***
Flame spread index = 0 ; Smoke developed index = 0	CAN/ULC S102***
Determination of Non Combustibility of Building Materials - Non Combustible	CAN/ULC S114
Standard Method of Fire Tests for Determining Heat Release Rate of Roofing Assemblies with Combustible Above Deck Roofing Components - Class 1	NFPA 276

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PHYSICAL PROPERTIES: (continued)

Fire Tests of Roof Coverings - Class A CAN/ULC S107-03
 Fire Spread under Roof Deck Assemblies - See ULC Directory CAN/ULC S126-06
 Standard Test Methods for Fire Tests of Roof Coverings - Class A UL 790 (ASTM E108)
 Fire Tests of Building Construction and Materials - See UL Directory UL 263 (ASTM E119)

Density

Actual Density - 12.5 lb/ft³ (200 kg/m³) ASTM C303

Dimensional Stability

Linear Shrinkage - 1.1% @ 1200°F (650°C) ASTM C356
 Linear Change 7 days @ 40°F (-40°C), ambient RH - 0.0% ASTM D2126
 Linear Change 7 days @ 200°F (93°C), ambient RH - 0.1%
 Linear Change 7 days @ 158°F (70°C), 97% RH - 0.1%

Hail Performance

Test Standard for Susceptibility to Hail Damage - Class 1 - SH FM 4470
 (Severe Hail)
 Impact Resistance by Impacting with Freezer Ice Balls - Class 4 FM 4473
 Impact Resistance of Prepared Roof Covering Materials - Class 4 UL 2218

Thermal Resistance

Mean Temperature	R-Value	RSI Value	ASTM C518 (C177)
75°F (24°C)	4.0 hr.ft ² .F/Btu	0.70 m ² K/W	
25°F (-4°C)	4.4 hr.ft ² .F/Btu	0.77 m ² K/W	
40°F (4°C)	4.3 hr.ft ² .F/Btu	0.75 m ² K/W	
110°F (43°C)	3.7 hr.ft ² .F/Btu	0.66 m ² K/W	

Reaction to Moisture

Moisture Sorption - 0.29% ASTM C1104
 Water Absorption - <1.0% ASTM C209
 Water Vapor Transmission, Desiccant Method - 2360 ng/Pa.s.m² (41 perm) ASTM E96

Compressive Strength

11psi (75kPa) @ 10% compression ASTC C165
 28psf (190kPa) @ 25% compression

Corrosion Resistance

Stress Corrosion Cracking Tendency of Austenitic Stainless ASTM C795
 Corrosion Resistance Steel - Passed
 Corrosion of Steel - Passed ASTM C665

Thickness

Nominal - 1" (25.4mm) Actual - 1.04" (26.4mm)

Dimensions

48"x48" (1219mm x 1219mm)

Acoustical Performance

Thickness 125 Hz 250 Hz 500 Hz 1000 Hz 2000 Hz 4000 Hz NRC ASTM C423
 1" 0.13 0.49 0.85 0.89 0.89 0.97 0.8

Contact ROXUL for STC rated assemblies ASTM E90



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TD 7017
08/23/16

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