

MONOBOARD® PLUS

Bitumen-coated Coverboard Insulation



ROCKWOOL MONOBOARD® PLUS is a high-density, uncoated stone wool insulating coverboard for low-slope roof applications. It can be used as a re-cover board over existing roof assemblies – providing additional fire and thermal resistance.

A suitable substrate for both torch- and mop-applied membranes, it simplifies the application process and saves time as well as material and labor costs on-site. The non-combustible stone wool provides protection during installation.

MONOBOARD® PLUS provides moisture resistance, chemical resistivity and impact resistance while also being resistant to mold/mildew. It also has excellent acoustic reduction, absorption and impact (rain noise) performance.

Dimensionally stable and providing a long-term, consistent thermal performance, MONOBOARD® PLUS is non-combustible, and will not warp or cup. Optimally sized for handling, it is also easy to cut and install.

Learn more at rockwool.com

Simplified Application

A pre-applied coating makes it compatible with both torch and mop applied membranes and simplifies the application process – saving time and costs.



MONOBOARD® PLUS

Flat Roof Insulation

Technical Data Sheet

Roof Insulation 07220* • Roof Insulation 07 22 00**

Mineral Wool Board Insulation 07 21 13**

ROCKWOOL MONOBOARD® PLUS is a high-density, bitumen-coated, mineral wool insulation board for flat roofing applications.

	Performance								Test Standard
Compliance	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 FM 4470
Reaction to Fire	Flame spread index = 0; Smoke developed index = 0 Flame spread index = 0; Smoke developed index = 0 Determination of Non Combustibility of Building Materials - Non Combustible Standard Method of Fire Tests for Determining Heat Release Rate of Roofing Assemblies with Combustible Above Deck Roofing Components - Class 1 Fire Tests of Roof Coverings - Class A Fire Spread under Roof Deck Assemblies - See ULC Directory Standard Test Methods for Fire Tests of Roof Coverings - Class A Fire Tests of Building Construction and Materials - See UL Directory								ASTM E84 (UL 723)*** CAN/ULC S102*** CAN/ULC S114 NFPA 276 CAN/ULC S107-03 CAN/ULC S126-06 UL 790 (ASTM E108) 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) Linear Change 7 days @ 40°F (-40°C), ambient RH - 0.0% Linear Change 7 days @ 200°F (93°C), ambient RH - 0.1% Linear Change 7 days @ 158°F (70°C), 97% RH - 0.1%								ASTM C356 ASTM D2126
Hail Performance	Test Standard for Susceptibility to Hail Damage - Class 1 - SH (Severe Hail) Impact Resistance by Impacting with Freezer Ice Balls - Class 4 Impact Resistance of Prepared Roof Covering Materials - Class 4								FM 4470 FM 4473 UL 2218
Thermal Resistance	Mean Temperature 75°F (24°C) 25°F (-4°C) 40°F (4°C) 110°F (43°C)		R-Value 4.0 hr.ft².F/Btu 4.4 hr.ft².F/Btu 4.3 hr.ft².F/Btu 3.7 hr.ft².F/Btu		RSI Value 0.70 m²K/W 0.77 m²K/W 0.75 m²K/W 0.66 m²K/W			ASTM C518 (C177)	
Reaction to Moisture	Moisture Sorption - 0.29% Water Absorption - <1.0% Water Vapor Transmission, Desiccant Method - 2360 ng/Pa.s.m² (41 perm)								ASTM C1104 ASTM C209 ASTM E96
Compressive Strength	11psi (75kPa) @ 10% compression 28psf (190kPa) @ 25% compression								ASTM C165
Corrosion Resistance	Stress Corrosion Cracking Tendency of Austenitic Stainless Steel - Passed Corrosion of Steel - Passed								ASTM C795 ASTM C665
Thickness Dimensions	Nominal - 1" (25.4 mm) Actual - 1.04" (26.4 mm) 48" x 48" (1219 mm x 1219 mm)								
Acoustical Performance	Thickness	125 Hz	250 Hz	500 Hz	1000 Hz	2000Hz	4000 Hz	NRC	ASTM C423
	1"	0.13	0.49	0.85	0.89	0.89	0.97	0.8	
	Contact ROCKWOOL for STC rated assemblies								ASTM E90



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