

ROXUL® TopRock® DD Plus



A rigid mineral wool insulation board with a rigid upper layer.

FEATURES

- Does not require cover board
- Will not promote blistering
- Does not off gas
- Dimensionally stable
- High impact resistance
- Low moisture sorption
- Non-corrosive
- Fire resistant
- Made from natural & recycled materials

DESCRIPTION:

ROXUL® TOPROCK® DD Plus is a rigid mineral wool insulation board with a rigid upper layer for durability and enhanced strength. ROXUL® TOPROCK® DD Plus is a noncombustible 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 vapor permeable material.

BASIC USES:

ROXUL® TOPROCK® DD Plus is suitable for both new building and re-roofing applications. TOPROCK® DD Plus is impregnated with a bitumen layer which is compatible with torch or mop applied membrane.

LIMITATIONS:

This product should not be exposed to weather during shipment, storage or installation. At the completion of a day's work, all exposed edges should be temporarily sealed by lapping roof membrane over them. The products are not intended for use as a structural roof deck or for use under heavy traffic areas.

The factory packaging is intended for the protection of the insulation boards during transit and is not intended for job site protection against the elements. When product is stored outdoors, the plastic shroud must be slit and the insulation protected by a waterproof, breathable covering such as a tarpaulin. Insulation must be stored minimum 4 in. (102 mm) above ground and kept on a solid flat surface.

PHYSICAL PROPERTIES:

Performance 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

Test Standard

ASTM C726
FM 4470
FM 4470

Reaction to Fire

Flame spread index = 0 ; Smoke developed index = 0
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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

ASTM E84 (UL 723)
CAN/ULC S102
CAN/ULC S114
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 - Construction C7, C18, C28, C38	CAN/ULC S126-06
Standard Test Methods for Fire Tests of Roof Coverings - See UL Directory	UL 790 (ASTM E108)
Fire Tests of Building Construction and Materials - See UL Directory	UL 263 (ASTM E119)
Density - (Formed as a monolithic structure)	
Actual Density -	ASTM C 612-09
Top Layer, 13.75 lb/ft ³ (220 kg/m ³)	
Bottom Layer, 10.0 lb/ft ³ (160 kg/m ³)	
Dimensional Stability	
Linear Shrinkage 24 hrs. @ 0.71% 1200°F (650°C)	ASTM C356
Linear Change 7 days @ 40°F (-40°C), ambient RH - 0.1%	ASTM D2126
Linear Change 7 days @ 200°F (93°C), ambient RH - 0.1%	
Linear Change 7 days @ 158°F (70°C), 97% RH - 0.0%	
Hail Performance	
Test Standard for Susceptibility to Hail Damage - Class 1 - SH (Severe Hail)	FM 4470
Impact Resistance by Impacting with Freezer Ice Balls - Class 4	FM 4473
Impact Resistance of Prepared Roof Covering Materials - Class 4	UL 2218
Reaction to Moisture	
Water Vapor Sorption - 0.15 %	ASTM C1104
Water Absorption - <1.0%	ASTM C209
Water Vapor Transmission, Desiccant Method - 2330 ng/Pa.s.m ² (41 perm)	ASTM E96
Thermal Resistance	
Mean Temperature R-value/inch RSI value/25.4 mm	ASTM C 518 (C 177)
25°F (-4°C) 4.3 hr.ft ² .F/Btu 0.74 m ² K/W	
40°F (4°C) 4.2 hr.ft ² .F/Btu 0.72 m ² K/W	
75°F (24°C) 3.8 hr.ft ² .F/Btu 0.68 m ² K/W	
110°F (43°C) 3.6 hr.ft ² .F/Btu 0.64 m ² K/W	
Compressive Strength	
Top Layer - 20psi (140kPa) @ 10% compression	ASTM C165
Top Layer - 37psi (250kPa) @ 25% compression	
Entire Board - 11psi (75kPa) @ 10% compression	
Entire Board - 15psi (105kPa) @ 25% compression	
Point Load @ 5mm compression - 30 psi (205 kPa)	EN 12430
Corrosion Resistance	
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) - Passed	ASTM C 795
Corrosion of Steel - Passed	ASTM C665
Thickness	
Available in 2" to 6" with 1/2" increments	
Dimensions	
48" (width) x 48" (length)	
1219 mm (width) x 1219 mm (length)	
Acoustical Performance	
Thickness 125 Hz 250 Hz 500 Hz 1000 Hz 2000 Hz 4000 Hz NRC	ASTM C423
2.0" 0.50 0.71 0.85 0.90 0.96 1.01 0.85	
Contact ROXUL for further details	



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