

Rockwool® TopRock® DD Plus

A rigid mineral wool insulation board

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

Rockwool® TOPROCK® DD Plus is a rigid mineral wool insulation board with a rigid upper layer for durability and enhanced strength. Rockwool TOPROCK DD Plus is a noncombustible product with a melting point of approximately 2150°F (1177°C), which gives it excellent fire resistance properties. Rockwool mineral wool is a water repellent yet vapor permeable material.

BASIC USES

Rockwool TOPROCK DD Plus is suitable for both new building and re-roofing applications. TOPROCK DD Plus is surfaced 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	TEST STANDARD
Compliance	
Standard Specification for Mineral Fiber Roof Insulation Boards	ASTM C726
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	FM 4470
NCC (Non Combustible Core) Rated Roof Insulation	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
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 - Top Layer, 13.75 lb/ft³ (220 kg/m³)	ASTM C 612-09
Bottom Layer, 10.0 lb/ft³ (160 kg/m³)	

PHYSICAL PROPERTIES CONTINUED

Rockwool® TopRock® DD Plus

PERFORMANCE

TEST STANDARD

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.m2 (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.ft².F/Btu	0.74 m²K/W	
40°F (4°C)	4.2 hr.ft².F/Btu	0.72 m²K/W	
75°F (24°C)	3.8 hr.ft².F/Btu	0.68 m²K/W	
110°F (43°C)	3.6 hr.ft².F/Btu	0.64 m²K/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:	ASTM C 795
U.S. Nuclear Regulatory Commission, Reg. Guide #1.36: U.S. Military Specifications MIL-I-24244 (all versions including B and C) - Passed	
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	

MAINTENANCE

PRECAUTIONS

TECHNICAL SUPPORT

Rockwool® TopRock® DD Plus

Your local Tremco Roofing Representative can provide you with effective maintenance procedures which may vary, depending upon specific conditions. Periodic inspections, early repairs and preventative maintenance are all part of a sound roof program.

Users must read container labels and Safety Data Sheets for health and safety precautions prior to use.

Your local Tremco Representative, working with the Technical Service Staff, can help analyze conditions and needs to develop recommendations for special applications. The services of the Tremco Research Center, which has earned a unique reputation in weatherproofing technology, complement and extend the service of the Tremco Service Staff.



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