

# ROXUL® TopRock® DD



## ***A rigid mineral wool insulation board with enhanced strength.***

### **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 is a rigid mineral wool insulation board with a rigid upper surface for durability and enhanced strength. ROXUL® TOPROCK® DD 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 is intended for commercial and industrial roof insulation applications and is suitable for both new building and re-roofing applications. TOPROCK® DD is intended for use with mechanically fastened or ballasted traditional and single ply membranes.

### **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	Test Standard
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
<b>Reaction to Fire</b>	
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

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## PHYSICAL PROPERTIES: (continued)

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)					
<b>Density</b>								
Actual Density -			ASTM C 612-09					
Top Layer, 13.75 lb/ft <sup>3</sup> (220 kg/m <sup>3</sup> )								
Bottom Layer, 10.0 lb/ft <sup>3</sup> (160 kg/m <sup>3</sup> )								
<b>Dimensional Stability</b>								
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%								
<b>Hail Performance</b>								
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					
<b>Reaction to Moisture</b>								
Water Vapor Sorption - 0.15 %			ASTM C1104					
Water Absorption - <1.0%			ASTM C209					
Water Vapor Transmission, Desiccant Method - 2330 ng/Pa.s.m <sup>2</sup> (41 perm)			ASTM E96					
<b>Thermal Resistance</b>								
Mean Temperature	R-value/inch	RSI value/25.4 mm	ASTM C 518 (C 177)					
25°F (-4°C)	4.3 hr.ft <sup>2</sup> .F/Btu	0.74 m <sup>2</sup> K/W						
40°F (4°C)	4.2 hr.ft <sup>2</sup> .F/Btu	0.72 m <sup>2</sup> K/W						
75°F (24°C)	3.8 hr.ft <sup>2</sup> .F/Btu	0.68 m <sup>2</sup> K/W						
110°F (43°C)	3.6 hr.ft <sup>2</sup> .F/Btu	0.64 m <sup>2</sup> K/W						
<b>Compressive Strength</b>								
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								
<b>Corrosion Resistance</b>								
Stress Corrosion Cracking Tendency of Austenitic Stainless			ASTM C795					
Corrosion Resistance Steel - Passed								
Corrosion of Steel - Passed			ASTM C665					
<b>Thickness</b>								
Available in 2" to 6" with 1/2" increments								
<b>Dimensions</b>								
48" (width) x 48" (length)								
1219 mm (width) x 1219 mm (length)								
<b>Acoustical Performance</b>								
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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