## ROXUL 📣 TopRock DD

## ROXUL TOPROCK® DD

## Flat Roof Insulation

Product Description & Application

ROXUL TOPROCK® DD is a duel density, 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	ASTM C726 FM 4470
	NCC (Non Combustible Core) Rated Roof Insulation	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	ASTM E84 (UL 723) CAN/ULC S102 CAN/ULC S114 NFPA 276
	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	CAN/ULC S107-03 CAN/ULC S126-06 UL 790 (ASTM E108) UL 263 (ASTM E119)
Density	Top Layer - 13.75 lb/ft³ (220 kg/m³) Bottom Layer - 10 lb/ft³ (160 kg/m³) - for 2" (50.8mm) and 2.5" (63.5mm) thickness Bottom Layer - 9.36 lb/ft³ (150 kg/m³) - for >2.5" (63.5mm) thicknesses	ASTM C303 ASTM C303 ASTM C303
Dimensional Stability	Linear Shrinkage - 0.71% @ 1200°F (650°C) Linear Change 7 days @ -40°F (-40°C), ambient RH - 0.1% Linear Change 7 days @ 200°F (93°C), ambient RH - 0.1% Linear Change 7 days @ 158°F (70°C), 97% RH - 0.0%	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 R-Value RSI Value   75°F (24°C) 3.8 hr.ft2.F/Btu 0.68 m2K/W   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   110°F (43°C) 3.6 hr.ft2.F/Btu 0.64 m2K/W	ASTM C518 (C177)
Reaction to Moisture	Moisture Sorption - 0.15% Water Absorption - <1.0% Water Vapor Transmission, Desiccant Method - 2330 ng/Pa.s.m2 (41 perm)	ASTM C1104 ASTM C209 ASTM E96
Compressive Strength	Top Layer - 20psi (140kPa) @ 10%, 37psi (250kPa) @ 25% Entire Board - 11psi (75kPa) @ 10%, 15psi (105kPa) @ 25% Point Load @ 5mm Compression - 30psi (205 kPa)	ASTC C165 EN 12430
Corrosion Resistance	Stress Corrosion Cracking Tendency of Austenitic Stainless Steel - Passed Corrosion of Steel - Passed	ASTM C795 ASTM C665
Thickness Dimensions	Product available in 2" - 6" (50.8mm - 152.4mm) in 1/2" (12.7mm) increments 48"x48" (1219mm x 1219mm)	
Acoustical Performance	Thickness 125 Hz 250 Hz 500 Hz 1000 Hz 2000Hz 4000 Hz NRC   2' 0.5 0.71 0.85 0.9 0.96 1.01 0.85	ASTM C423
	Contact ROXUL for STC rated assemblies	ASTM E90

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