

Toprock[®] DD

Low-slope roof insulation



ROCKWOOL Toprock[®] DD is a rigid and high-density, uncoated stone wool insulation board for low-slope roof applications. Toprock DD is a suitable substrate for mechanically-attached membrane systems in low slope roofing.

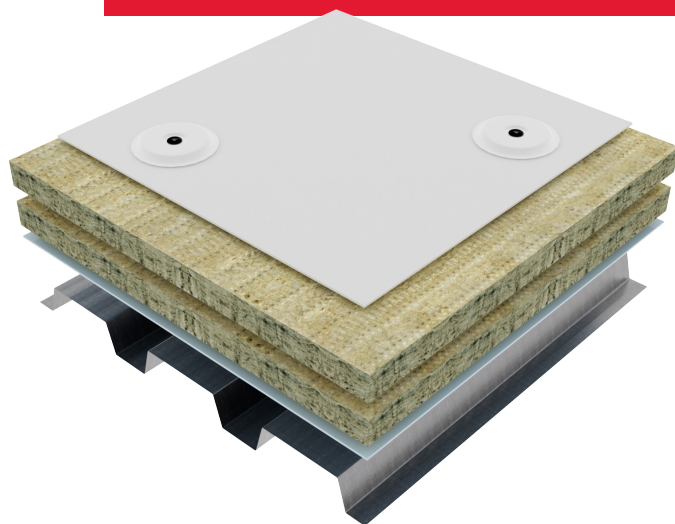
Toprock[®] DD is noncombustible and will not develop toxic smoke or promote flame spread, even when directly exposed to fire. It can be used either as a base layer of thermal insulation in an assembly with Toprock[®] DD Plus or as the top layer of a hybrid roof assembly with polyisocyanurate or other roof insulations.

Toprock[®] DD has exclusive stone wool dual-density properties that feature a higher-density top layer, providing strong point load resistance and effective load distribution to minimize puncture damage to the membrane – particularly during installation.

Learn more at rockwool.com/toprock-dd

Dimensionally stable

Low co-efficient of linear expansion means minimal movement during temperature changes and no shrinking over time causing energy loss leading to reliable and consistent long-term thermal resistance.



ROCKWOOL Toprock® DD is a dual-density, stone wool insulation board designed for mechanically-attached low-slope roofing systems.

	Performance			Test standard						
Compliance	Standard specification for mineral fiber roof insulation boards - Type 1 Class 1 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 rating = 0; Smoke developed classification = 0 Combustibility of materials at 750 °C - Noncombustible Determination of non-combustibility of building materials - Non-combustible Heat release rate of roofing assemblies with combustible 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 Fire endurance tests of building construction and materials - See UL directory			ASTM E84 (UL723) ¹ CAN/ULC S102 ASTM E136 CAN/ULC S114 NFPA 276 CAN/ULC S107-03 CAN/ULC S126-06 UL 790 (ASTM E108) UL 263 (ASTM E119) CAN/ULC S101						
Density	Top layer - 13.75 lb/ft³ (220 kg/m³) Bottom layer - 10 lb/ft³ (160 kg/m³) - for 2" (50.8 mm) and 2.5" (63.5 mm) thickness Bottom layer - 9.36 lb/ft³ (150 kg/m³) - for >2.5" (63.5 mm) thicknesses			ASTM C303						
Dimensional stability	Linear change 7 days @ 200 °F (93 °C), ambient RH - 0 % Linear change 7 days @ -40 °F (-40 °C), ambient RH - 0 % Linear change 7 days @ 158 °F (70 °C), 97% RH - 0 %			ASTM D2126						
Thermal resistance	Mean temperature 75 °F (24 °C) 40 °F (4 °C) 110 °F (43 °C)	R-Value / inch 3.8 hr.ft².F/Btu 4.2 hr.ft².F/Btu 3.6 hr.ft².F/Btu	RSI value / 25.4 mm 0.68 m²K/W 0.72 m²K/W 0.64 m²K/W	ASTM C518 (C177)						
Reaction to moisture	Water absorption - ≤1.0 vol% Water vapor transmission (2 in. thickness evaluated), desiccant method - 41 perm (2330 ng/Pa-s-m²)			ASTM C209 ASTM E96						
Compressive resistance	Entire board - 11 psi (75 kPa) @ 10 %, 15 psi (105 kPa) @ 25 % Point load @ 5 mm compression - 996 N (224 lbf)			ASTM C165 EN 12430						
Corrosion resistance	Corrosiveness to steel - Passed			ASTM C665						
Thickness Dimensions	Product available in 2" - 6" (50.8 mm - 152.4 mm) in 1/2" (12.7 mm) increments 48" x 48" (1219 mm x 1219 mm)									
Acoustical performance	Thickness	NRC	SAA	Sound absorption coefficients					ASTM C423	
				125 Hz	250 Hz	500 Hz	1000 Hz	2000 Hz		4000 Hz
	2.0"	0.85	0.85	0.5	0.71	0.85	0.9	0.96		1.01
	3.0"	0.8	0.77	0.71	0.65	0.68	0.85	0.92		0.97
	4.0"	0.8	0.82	0.74	0.62	0.75	0.86	0.98		1.05
	5.0"	0.8	0.79	0.63	0.58	0.78	0.81	0.97	1.02	ASTM E90
Contact ROCKWOOL for STC rated assemblies										



¹ Meets Class A requirements for flame spread and smoke-developed indices as per IBC.
* Master Format 1995 Edition ** Master Format 2004 Edition.

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