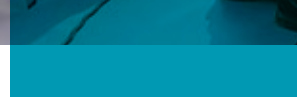


Toprock[®] DD

Flat Roof Insulation



ROCKWOOL TOPROCK[®] DD is a high-density, uncoated stone wool insulation board for low-slope roof applications. TOPROCK[®] DD is a suitable substrate board for all low-slope roof decks and is compatible as the substrate for mechanically attached membrane systems.

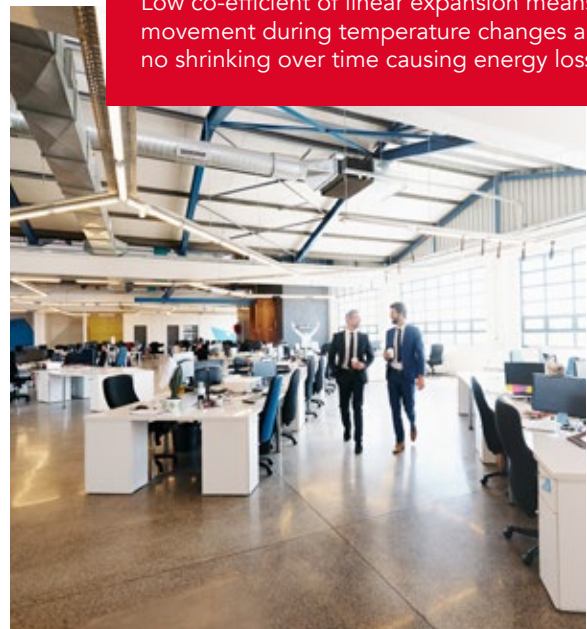
TOPROCK[®] DD is non-combustible and will not develop toxic smoke or promote flame spread, even when directly exposed to fire. It can be used either as a base layer of thermal insulation in an assembly with TOPROCK[®] DD Plus or as the top layer of a hybrid roof assembly with polyisocyanurate or other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

Dimensionally Stable

Low co-efficient of linear expansion means less movement during temperature changes and no shrinking over time causing energy loss.



ROCKWOOL TOPROCK® DD is a dual-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 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 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 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	ASTM E84 (UL 723) CAN/ULC S102 CAN/ULC S114 NFPA 276 CAN/ULC S107-03 CAN/ULC S126-06 UL 790 (ASTM E108) UL 263 (ASTM E119)																
Density	Top Layer - 13.75 lb/ft ³ (220 kg/m ³) Bottom Layer - 10 lb/ft ³ (160 kg/m ³) - for 2" (50.8 mm) and 2.5" (63.5 mm) thickness Bottom Layer - 9.36 lb/ft ³ (150 kg/m ³) - for >2.5" (63.5 mm) 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	<table border="1"> <thead> <tr> <th>Mean Temperature</th> <th>R-Value / inch</th> <th>RSI Value / 25.4 mm</th> </tr> </thead> <tbody> <tr> <td>75°F (24°C)</td> <td>3.8 hr.ft².F/Btu</td> <td>0.68 m²K/W</td> </tr> <tr> <td>25°F (-4°C)</td> <td>4.3 hr.ft².F/Btu</td> <td>0.74 m²K/W</td> </tr> <tr> <td>40°F (4°C)</td> <td>4.2 hr.ft².F/Btu</td> <td>0.72 m²K/W</td> </tr> <tr> <td>110°F (43°C)</td> <td>3.6 hr.ft².F/Btu</td> <td>0.64 m²K/W</td> </tr> </tbody> </table>	Mean Temperature	R-Value / inch	RSI Value / 25.4 mm	75°F (24°C)	3.8 hr.ft ² .F/Btu	0.68 m ² K/W	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	110°F (43°C)	3.6 hr.ft ² .F/Btu	0.64 m ² K/W	ASTM C518 (C177)	
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Reaction to Moisture	Moisture Sorption - 0.15% Water Absorption - <1.0% Water Vapor Transmission, Desiccant Method - 2330 ng/Pa.s.m ² (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 @ 5 mm Compression - 30psi (205 kPa)	ASTM 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" (50.8 mm - 152.4 mm) in 1/2" (12.7 mm) increments 48" x 48" (1219 mm x 1219 mm)																	
Acoustical Performance	<table border="1"> <thead> <tr> <th>Thickness</th> <th>125 Hz</th> <th>250 Hz</th> <th>500 Hz</th> <th>1000 Hz</th> <th>2000Hz</th> <th>4000 Hz</th> <th>NRC</th> </tr> </thead> <tbody> <tr> <td>2'</td> <td>0.5</td> <td>0.71</td> <td>0.85</td> <td>0.9</td> <td>0.96</td> <td>1.01</td> <td>0.85</td> </tr> </tbody> </table> <p>Contact ROCKWOOL for STC rated assemblies</p>	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 ASTM E90
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2'	0.5	0.71	0.85	0.9	0.96	1.01	0.85											



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