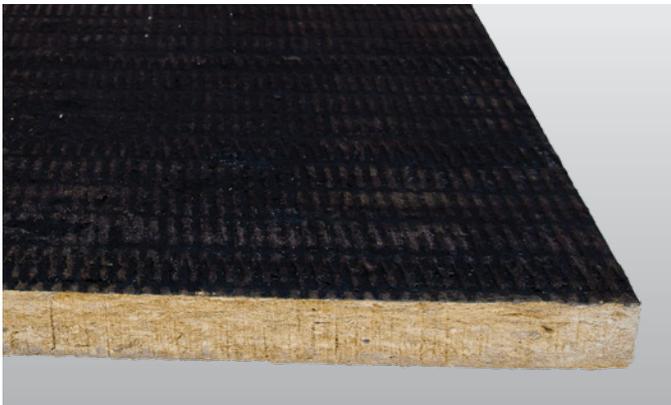


TOPROCK® DD and TOPROCK DD Plus

Mineral Wool Insulation and Insulating Coverboard in One



TOPROCK DD



TOPROCK DD Plus

Overview

TOPROCK DD and TOPROCK DD Plus are rigid mineral wool insulation boards. They are intended for commercial and industrial roof insulation applications and are suitable for both new construction and re-roofing applications. TOPROCK DD is intended for use with ballasted or mechanically fastened single-ply membranes.

Features and Benefits

- » Dimensionally stable
- » High impact resistance
- » Water repellent
- » Sound absorbent
- » Made from stone and recycled materials

Panel Characteristics

Available in 48" x 48" (1219 mm x 1219 mm) panels in thicknesses of 2" – 6" in ½" increments.

Installation

Ballasted Single-Ply Systems

Each insulation panel is loosely laid on the roof deck. Butt edges and stagger joints of adjacent panels.

Mechanically Fastened Single-Ply Systems

Each insulation panel must be secured to the roof deck with fasteners and plates appropriate to the deck type. Butt edges and stagger joints of adjacent panels. Install the roof membrane according to Carlisle's specifications. Carlisle approved coverboard is required as overlayment.

Review Carlisle's specifications and details for complete installation information.

Acoustical Performance

Thickness	Test Method	Co-Efficients at Frequencies						NRC
		125 Hz	250 Hz	500 Hz	1000 Hz	2000 Hz	4000 Hz	
2.0"	ASTM C 423	0.50	0.71	0.85	0.90	0.96	1.01	0.85

Code Approvals

- » ASTM C726
- » NFPA 276-Class 1
- » Underwriters Laboratories, Inc.
 - CAN/ULC-S107-03-Class A
 - CAN/ULC-S126-06-Construction C7, C18, C28, C38
 - CAN/ULC-S114-Non-Combustible
 - UL 723 (ASTM E84)
 - CAN/ULC-S102
 - UL 2218-Class 4 (Hail)
 - UL 790 (ASTM E108)
- » Factory Mutual Research
 - FM 4470-Class 1, Class 1-SH (Severe Hail)
 - FM 4473-Class 4 (Hail)

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Precautions

This product should not be exposed to weather during shipment, storage or installation. At the end of a work day, all exposed edges should be temporarily sealed by lapping roof membrane over them. These products are not intended for use as a structural roof deck or for use under heavy traffic areas.

On-Site Storage

The factory packaging is intended for the protection of the insulation boards during transit and is not intended for jobsite 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 a minimum of 4" (102 mm) above the ground on a solid, flat surface.

Typical Properties and Characteristics

Physical Property	Test Method	Value
Thermal Resistance	ASTM C 518 (ASTM C 177)	Temperature 75°F (24°C) R-value/inch 3.8 hr.ft ² .F/Btu
Dimensional Stability		
Linear Shrinkage 24 hours @ 1200°F (650°C)	ASTM C356	0.71%
Linear change 7 days @ 40°F (-40°C) ambient RH	ASTM D2126	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%
Moisture Resistance	ASTM C1104 ASTM E96 ASTM C209	0.15% 2330 ng/Pa.s.m ² (41 Perm) <1.0 %
Corrosive Resistance	ASTM C665 ASTM C795	Non-corrosive Non-corrosive
Compressive Strength	ASTM C165	
Entire Board @ 10%		11 psi (75 kPa)
@ 25%		15 psi (105 kPa)
Density	ASTM C612-09	
Top Layer		13.75 lb/ft ³ (220 kg/m ³)
Bottom Layer		10.0 lb/ft ³ (160 kg/m ³)

Typical properties and characteristics are based on samples tested and are not guaranteed for all samples of this product. This data and information is intended as a guide and does not reflect the specification range for any particular property of this product.

