

SOPRAROCK DD

Rigid, Mineral Fiber Insulation Board



APPLICATIONS

ROOFING

PRODUCT DATA SHEET PDS10212 - REV 231004

PRODUCT NUMBERS:

For ordering information contact customer service.

DESCRIPTION & FEATURES:

SOPRAROCK DD (dual density) is a rigid mineral fiber insulation for use in approved multi-ply membrane.

SOPRAROCK DD is composed of basalt rock and slag, that when combined, results in insulation with an extremely high melting point. **SOPRAROCK DD** is water repellent yet vapor permeable and has a higher density top surface.

- Dimensionally stable — provides a long-term, consistent thermal performance
- Will not warp or cup
- Noncombustible product with excellent fire resistance
- High impact resistance
- Excellent acoustic reduction and absorption resulting in better Sound Transmission Class (STC) ratings
- Made from natural and recycled materials

APPLICATION:



MECHANICALLY
FASTENED



HOT
ASPHALT



LOOSE
LAID

Prior to installation, ensure all **SOPRAROCK DD PLUS** panels have not been subject to moisture. Place boards in desired position. Butt edges and stagger joints of adjacent boards. Secure boards to substrate using mechanical fasteners or hot asphalt. **SOPRAROCK DD PLUS** can also be loose laid when gang fastened with an overlying cover board. For approvals and listings to meet project-specific wind rating requirements, contact SOPREMA.

Refer to the SOPREMA Low-Slope Roofing Insulation Technical Manual for complete application guidelines.

STORAGE:

Store boards flat on a pallet to prevent damage. Store in a clean, dry location and cover as necessary to protect from environmental damage such as extreme cold, heat or moisture. The factory packaging is intended for the protection of the boards during transit and is not intended for job site protection. When product is stored outdoors, the plastic shroud must be slit and the insulation protected by a waterproof, breathable covering such as a tarpaulin.

LIMITATIONS:

DO NOT LEAVE EXPOSED. Install only as much **SOPRAROCK DD** as can be covered in the same day.

TESTING & APPROVALS:

- ASTM C726, Type I, Class 1
- 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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TECHNICAL INFORMATION & TESTING:

SHEET PROPERTIES	
PROPERTY	VALUE
Material	Mineral fibers
ASTM	C726, Type 1, Class 1
Dimensions, ft (m)	4 x 4 (1.2 x 1.2)
Thickness, in (mm)	2 - 6 (50.8 - 152.4)*

* Others thicknesses available upon request.

PHYSICAL PROPERTIES*		
PROPERTY	VALUE	ASTM
Thermal Resistance for 1 in (25.4 mm) @ 75°F (24°C)	$R - 3.8 \text{ hr} \cdot \text{ft}^2 \cdot ^\circ\text{F} / \text{BTU}$ (0.68 m ² K/W)	C518 (C177)
Compressive strength, psi (kPa) - Top Layer at 10% - Top Layer at 25% - Entire Board (3 in Thickness) at 10% - Entire Board (3 in Thickness) at 25% - Point load at 5mm compression	20 (140) 37 (250) 11 (75) 15 (105) 30 (205)	C165 EN 12430
Density,** (lb/ft³) (kg/m³) - Top Layer - Bottom layer 2 - 2.5 in thickness - Bottom layer > 2.5 in thickness	13.75 (220) 10.0 (160) 9.36 (150)	C612-09
Dimensional stability linear shrinkage 24 hours@ 650 °C (1200 °F), %	0.71	C356
Water absorption, %	< 1.0	C209
Moisture sorption, %	0.15	C1104
Flame spread	0	E84
Smoke developed	0	E84
Hail performance	Class 1, Severe Hail	FM 4470

* Data is represented by average values, unless noted otherwise

** Formed as a monolithic structure

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ACOUSTICAL PERFORMANCE

THICKNESS	ASTM	CO-EFFICIENTS AT FREQUENCIES						
		125 HZ	250 HZ	500 HZ	1,000 HZ	2,000 HZ	4,000 HZ	NRC
2 in	C423	0.5	0.71	0.85	0.9	0.96	1.01	0.85

SUSTAINABILITY:



RECYCLED
CONTENT*

16 - 40%

**Dependent on
manufacturing location*

WARRANTY:

For more information refer to www.SOPREMA.us or contact your SOPREMA representative.