2-1 SOPRASMART ROCK

TECHNICAL DATA SHEET 240220SCANE (supersedes 240118SCANE)

WATERPROOFING ACCESSORIES PRODUCT

APPLICATIONS

ROOFS

DESCRIPTION

2-1 SOPRASMART ROCK is a high performance base sheet panel composed of SBS modified bitumen membrane with a non-woven polyester reinforcement and a surface covered with a thermofusible plastic film. This membrane is factory-laminated on a high density mineral fiber (rock wool) board.

INSTALLATION

BITUMEN

2-1 SOPRASMART ROCK panel is intalled in a bed of hot bitumen (SEBS or oxidized) applied with a mop.

ADHESIVE

2-1 SOPRASMART ROCK panel is adhered with DUOTACK adhesives.(1)

MECHANICALLY FASTENED

2-1 SOPRASMART ROCK panel is mechanically fastened to steel deck with SOPREMA screws and plates according to the required fastening pattern.(1)

On a steel deck, fasteners must be installed on the steel deck top flanges. Install membranes perpendicular to the steel deck ribs.

The side lap joints have a DUO SELVEDGE. The first part is self-adhered and the last part of the joint is sealed with a propane torch.

Align all end laps without offsetting them and cover them with a SOPRALAP membrane centred on the joint.

(1): For more details about the required number of adhesive or mechanical fasteners, consult the Wind Uplift Resistance Testing reports according to Canadian standard CSA A123.21 or publications according to FM 4470 (RoofNav Database) including recommendations for corners and perimeters listed in the PLPDS 1-29 from Factory Mutual.

FOR COMPLETE INFORMATION ON PRODUCT INSTALLATION, PLEASE CONSULT YOUR SOPREMA REPRESENTATIVE.

GENERAL INFORMATION

Specifications	2-1 SOPRASMART ROCK		
Thicknesses of the mineral fiber board (1)	15.9 mm (5/8 in)	25.4 mm (1 in)	38.1 mm (1-1/2 in)
Total thicknesses	18.1 mm (0.71 in)	27.6 mm (1.09 in)	40.3 mm (1.59 in)
Membrane reinforcement	Non-woven polyester		
Dimensions of the insulation board (1)	0.914 x 4.88 m (3 x 16 ft)		
Selvedge width	75 mm (3 in)		
Surface	Thermofusible plastic film		
Underface	Mineral fiber (rock wool)		

(1): Other thicknesses and dimensions available upon request.
(All values are nominal)

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SYSTÈME QUALITÉ ISO 9001 QUALITY SYSTEM

SYSTÈME ENVIRONNEMENT ISO 14001 ENVIRONMENT SYSTEM

SOPREMA®

NOTE : All products manufactured by SOPREMA Inc. comply with the description and properties indicated in the technical data sheet that was current at the date of manufacture.

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PROPERTIES [membrane]

Properties	MEMBRANE		CSA A123.23 Type B, Grade 3 Requirements
	BEFORE Heat Conditioning	AFTER Heat Conditioning	
Thickness of the membrane, min.	2.2 mm (85 mils)		2.2 mm (85 mils)
Selvedge thickness, min.	2.2 mm (85 mils)		2.2 mm (85 mils)
Mass per unit area, min.	2.6 kg/m² (53 lb/100 ft²)		2.6 kg/m² (53 lb/100 ft²)
Strain energy, min. MD/XD, *at 23 °C ± 2 °C (73.4 °F ± 3.6 °F)* *at -18 °C ± 2 °C (0 °F ± 3.6 °F)*	 6.5/6.5 kN/m (37/37 lbf/in) 8.0/4.0 kN/m (46/23 lbf/in)	 5.5/5.5 kN/m (31/31 lbf/in) 3.1/3.1 kN/m (18/18 lbf/in)	 5.5 kN/m (31 lbf/in) 3.0 kN/m (17 lbf/in)
Peak load, min. MD/XD, *at 23 °C ± 2 °C (73.4 °F ± 3.6 °F)* *at -18 °C ± 2 °C (0 °F ± 3.6 °F)*	 15/11 kN/m (86/63 lbf/in) 22/17 kN/m (126/97 lbf/in)	 14/10 kN/m (80/57 lbf/in) 19/11 kN/m (108/63 lbf/in)	 Report value Report value
Elongation at peak load, min. MD/XD, *at 23 °C ± 2 °C (73.4 °F ± 3.6 °F)* *at -18 °C ± 2 °C (0 °F ± 3.6 °F)*	 50/60% 30/30%	 15/50% 7/21%	 Report value Report value
Ultimate elongation, MD/XD, *at 23 °C ± 2 °C (73.4 °F ± 3.6 °F)*	55/70%	45/45%	Report value
Dimensional stability, max. MD/XD	±0.5/±0.1%		1.0%
Low temperature flexibility, max. MD/XD	-18/-18 °C (-0.4/-0.4 °F)	-18/-18 °C (-0.4/-0.4 °F)	-18 °C (-0.4 °F)
Compound stability	121/121 °C (250/250 °F)		min. 102 °C (215 °F)
Resistance to puncture	Pass		Pass

(All values are nominal)

PROPERTIES [high density mineral fiber board insulation]

Properties	Standards	HIGH DENSITY MINERAL FIBER BOARD INSULATION
Thermal resistance, *25.4 mm (1 in) thickness, at 24 °C (75 °F)*	ASTM C 518 (C 177)	0.70 m²K/W (R – 4.0 hr • ft² •°F / BTU)
Compressive strength, *at 10%* / *at 25%* *25.4 mm (1 in) thickness*	ASTM D 165	85 kPa (12 psi) 190 kPa (28 psi)
Density	ASTM C 612-09	200 kg/m³ (12.5 lb/ft³)
Dimensional stability, *linear shrinkage, 24 hours, at 650 °C (1200 °F)*	ASTM C 356	1.1%
Water absorption	ASTM C 209	1.2%
Water vapor sorption	ASTM C 1104	0.29%

(All values are nominal)

SYSTÈME QUALITÉ ISO 9001 QUALITY SYSTEM

SYSTÈME ENVIRONNEMENT ISO 14001 ENVIRONMENT SYSTEM

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STORAGE AND HANDLING

2-1 SOPRASMART ROCK panels must be stored on a flat substrate and sheltered form inclement weather. If the products are stored outdoors, cover them with an opaque protection cover.

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