

# 2-1 SOPRASMART BOARD

TECHNICAL DATA SHEET 240220SCANE

(supersedes 231102SCANE)



WATERPROOFING  
ACCESSORY

APPLICATIONS

ROOFS

## DESCRIPTION

2-1 SOPRASMART BOARD 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 asphaltic board (SOPRABOARD).

## INSTALLATION

### BITUMEN

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

### ADHESIVE

2-1 SOPRASMART BOARD panel is adhered with DUOTACK adhesives.<sup>(1)</sup>

### MECHANICALLY FASTENED

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

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 BOARD		
Thicknesses of the asphaltic support panel	3.2 mm (1/8 in)	4.8 mm (3/16 in)	6.3 mm (1/4 in)
Total thicknesses	5.4 mm (7/32 in)	7 mm (9/32 in)	8,5 mm (11/32 in)
Membrane reinforcement	Non-woven polyester		
Support panel dimensions (Asphaltic board)	0.914 x 2.44 m (3 x 8 ft)		
Total weight	6.9 kg/m <sup>2</sup> (1.2 lb/ft <sup>2</sup> )	9.4 kg/m <sup>2</sup> (1.9 lb/ft <sup>2</sup> )	12.0 kg/m <sup>2</sup> (2.5 lb/ft <sup>2</sup> )
Selvedge width	90 mm (3.5 in)		
Surface	Thermofusible film		
Underface	Semi-rigid asphaltic board		

(All values are nominal)



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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)
Selvage thickness, min.	2.2 mm (85 mils)		2.2 mm (85 mils)
Mass per unit area, min.	2.6 kg/m <sup>2</sup> (53 lb/100 ft <sup>2</sup> )		2.6 kg/m <sup>2</sup> (53 lb/100 ft <sup>2</sup> )
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

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## PROPERTIES [support panel]

SOPRABOARD meets the requirements of CSA A123.25.

Properties	Standards	SUPPORT PANEL		
		SOPRABOARD 1/8	SOPRABOARD 3/16	SOPRABOARD 1/4
Puncture resistance	ASTM E154	500 N (112 lbf)		
Water absorption	ASTM D994	2.5%		
Compressive Strength, at 50% compression	ASTM C472	11 100 kPa (1 610 psi)		9 100 kPa (1 320 psi)
Shore hardness	ASTM C1278	Pass		
Squareness	ASTM C550	< 3 mm		
Straightness	ASTM C550	< 2 mm		
Plastic Flow, 2 hours, at 80 °C (176 °F)	CSA A123.25	No flow and no asphalt drop		
Asphalt Content	ASTM D545	≥ 30%		
Tensile Load, MD/XD	ASTM C209 ASTM D5147	> 450 N/450 N (> 101/101 lbf)		
Dimensional Stability Change, MD/XD	ASTM D2126	< ± 0.5/0.5%		

(All values are nominal)

## STORAGE AND HANDLING

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



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