

Formerly known as XPRESS BOARD HD

# 2-1 SOPRASMART ROCK



WATERPROOFING  
ACCESSORIES PRODUCT

APPLICATIONS

ROOFS

TECHNICAL DATA SHEET 200505SCANE

(supersedes 200316SCANE)

## 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 fibre (rock wool) board.

## INSTALLATION

### BITUMEN

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

### ADHESIVE

2-1 SOPRASMART ROCK panel is adhered with DUOTACK adhesives\*.

### MECHANICALLY FASTENED

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

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.

\*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.

## PACKAGING

Specifications	2-1 SOPRASMART ROCK	
Thickness of the membrane	2.2 mm (87 mils)	
Thicknesses of the mineral fibre board*	25.4 mm (1 in)	38.1 mm (1.5 in)
Total thicknesses	27.6 mm (1.09 in)	40.3 mm (1.59 in)
Membrane reinforcement	Non-woven polyester	
Dimensions of the insulation board*	0.914 x 4.88 m (3 x 16 ft)	
Selvedge width	75 mm (3 in)	
Surface	Thermofusible plastic film	
Underface	Mineral fibre (rock wool)	

\*Other thicknesses and dimensions available upon request.  
(All values are nominal)



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## PROPERTIES

As per CSA A123.23-15, Type B, Grade 3.

Properties	MEMBRANE	
	BEFORE Heat Conditioning	AFTER Heat Conditioning
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)
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)
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 %
Ultimate elongation, MD/XD At 23 °C ± 2 °C (73.4 °F ± 3.6 °F)	55/70 %	45/45 %
Dimensional stability, max MD/XD	±0.5/±0.1 %	
Low temperature flexibility, max MD/XD	-18/-18 °C (0/0 °F)	-18/-18 °C (0/0 °F)
Compound stability at 102 °C (216 °F)	121/121 °C (250/250 °F)	
Resistance to puncture	Pass	

(All values are nominal)

Properties	Standards	HIGH DENSITY MINERAL FIBRE BOARD INSULATION
Thermal resistance 25.4 mm (1 po) @ 24 °C (75 °F)	ASTM C 518 (C 177)	0.70 m <sup>2</sup> K/W (R – 4.0 hr • ft <sup>2</sup> • °F / BTU)
Compressive strength 25.4 mm (1 in) thickness	at 10 % at 25 %	ASTM D 165 85 kPa (12 psi) 190 kPa (28 psi)
Density	ASTM C 612-09	200 kg/m <sup>3</sup> (12.5 lb/ft <sup>3</sup> )
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)

## STORAGE AND HANDLING

2-1 SOPRASMART ROCK 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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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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