

Formerly known as SOPRABASE HD SANDED

# 2-1 SOPRASMART FB SANDED

TECHNICAL DATA SHEET 200316SCANE

(supersedes 161031SCANE)



WATERPROOFING  
ACCESSORY

APPLICATIONS

ROOFS

## DESCRIPTION

2-1 SOPRASMART FB SANDED is a high performance base sheet panel composed of SBS modified bitumen membrane with a non-woven polyester reinforcement and a sanded surface. This membrane is factory-laminated on a high density fire-resistant fibreboard (SOPRAFIBRE) support panel.

## INSTALLATION

### BITUMEN

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

### ADHESIVE

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

### MECHANICALLY FASTENED

2-1 SOPRASMART FB SANDED 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 or a hot-air welder. The use of **SOPRAMATIC** automatic hot-air welder will increase the speed and quality of the sealing.

Align all end laps without offsetting them and cover them with a **SOPRALAP STICK** membrane centred on the joint. Pre-coat the surface to be covered with **ELASTOCOL STICK** primer.

\*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 FB SANDED	
Thickness of the membrane	2.2 mm (87 mils)	Total thickness: 14.9 mm (0.6 in)
Thickness of the support panel	12.7 mm (½ in)	
Reinforcement of the membrane	Non-woven polyester	
Dimensions of the support panel	0.914 x 2.44 m (3 x 8 ft)	
Total weight	5.9 kg/m <sup>2</sup> (1.2 lb/ft <sup>2</sup> )	
Selvedge width	90 mm (3.5 in)	
Surface	Sanded	
Underface	Fire-resistant fibreboard	

(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

2-1 SOPRASMART FB SANDED panel meets the requirements of ANSI/UL 790 and CAN/ULC-S107 standards.

Properties	Standards	HD FIBREBOARD
Specific Gravity	ASTM D1037	256 kg/m <sup>3</sup> (16 lbs/ft <sup>3</sup> )
Transverse Strength	ASTM C209	67 N (15 lbs)
Tensile Strength Perpendicular to Surface, min	ASTM C209	36.5 kPa (761 lbs/ft <sup>2</sup> )
Tensile Strength Parallel to Surface, min	ASTM C209	1.3 MPa (187 lbs/in <sup>2</sup> )
Water Absorption	ASTM C209	< 6 % of the volume
Linear Expansion	ASTM C209	0.10 %
Compressive Resistance, min (10 %)	ASTM C165	2.4 kg/cm <sup>2</sup> (34.8 lbs/in <sup>2</sup> )
Thermal Resistance (R-Value/in)	ASTM C518	RSI 0.53 (R-3)

(All values are nominal)

## STORAGE AND HANDLING

2-1 SOPRASMART FB SANDED 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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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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