

Formerly known as SOPRABASE HD

2-1 SOPRASMART FB

TECHNICAL DATA SHEET 200316SCANE

(supersedes - 160420SCANE)



WATERPROOFING
ACCESSORY

APPLICATIONS

ROOFS

DESCRIPTION

2-1 SOPRASMART FB 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 fire-resistant fibreboard support panel.

INSTALLATION

BITUMEN

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

ADHESIVE

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

MECHANICALLY FASTENED

2-1 SOPRASMART FB 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 FB	
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)	
Weight	5.9 kg/m ² (1.2 lb/ft ²)	
Selvedge width	90 mm (3.5 in)	
Surface	Thermofusible plastic film	
Underface	Fire-resistant fibreboard	

(All values are nominal)



SOPREMA.CA

1.877.MAMMOUTH

Formerly known as SOPRABASE HD

2-1 SOPRASMART FB



WATERPROOFING
ACCESSORY

APPLICATIONS

ROOFS

TECHNICAL DATA SHEET 200316SCANE

(supersedes - 160420SCANE)

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)

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

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

(All values are nominal)

STORAGE AND HANDLING

2-1 SOPRASMART FB 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.



SOPREMA.CA

1.877.MAMMOUTH