



WATERPROOFING
ACCESSORY

APPLICATIONS

ROOFS

2-1 SOPRASMART ISO HD HP SANDED

TECHNICAL DATA SHEET 221005SCANE

(supersedes -)

DESCRIPTION

2-1 SOPRASMART ISO HD HP SANDED is a high performance base sheet panel composed of SBS modified bitumen membrane with a composite reinforcement and a sanded surface. This membrane is factory-laminated on a high density polyisocyanurate insulation support panel (SOPRA-ISO PLUS HD).

INSTALLATION

BITUMEN

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

ADHESIVE

2-1 SOPRASMART ISO HD HP SANDED panel is adhered with DUOTACK adhesives*.

MECHANICALLY FASTENED

2-1 SOPRASMART ISO HD HP 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 hot-air welder. The use of an 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 ISO HD HP SANDED	
Thickness of the membrane	2.5 mm (98 mils)	Total thickness: 15.2 mm (0.6 in)
Thickness of the support panel	12.7 mm (1/2 in)	
Membrane reinforcement	Composite	
Support panel dimensions	0.914 x 2.44 m (3 x 8 ft)	
Total weight	4.16 kg/m ² (85.22 lb/100 ft ²)	
Selvedge width	90 mm (3,5 in)	
Surface	Sanded	
Underface	Polyisocyanurate high density	

(All values are nominal)



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WATERPROOFING
COMPLEMENTARY PRODUCT

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PROPERTIES

As per CSA A123.23-15, Type C, 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)	8/6.5 kN/m (46/37 lbf/in) 8/7 kN/m (46/40 lbf/in)	7/6 kN/m (40/34 lbf/in) 6.5/6 kN/m (37/34 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)	17/14 kN/m (97/80 lbf/in) 22/19 kN/m (126/108 lbf/in)	18/15 kN/m (103/86 lbf/in) 22/17 kN/m (126/97 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)	55/55 % 45/45 %	50/50 % 35/35 %
Ultimate elongation, MD/XD At 23 °C ± 2 °C (73.4 °F ± 3.6 °F)	65/65 %	55/55 %
Dimensional stability, max MD/XD	±0.2/±0.2 %	
Low temperature flexibility, max MD/XD	-27/-27 °C (-17/-17 °F)	-18/-18 °C (0/0 °F)
Compound stability at 91 °C (196 °F)	121/121 °C (250/250 °F)	
Resistance to puncture	Pass	

(All values are nominal)

Properties	Standards	HD POLYISOCYANURATE SUPPORT PANEL (SOPRA-ISO PLUS HD)
Thermal resistance 12.7 mm (0.5 in) @ 24 °C (75 °F)	ASTM C518	RSI 0.44 (R-2.5)
Compressive strength	ASTM D1621	550 to 759 kPa (80 to 110 psi)
Dimensional stability	ASTM D2126	< 0.5 % linear change
Water absorption	ASTM C209	< 3 % volume
Resistance to mold	ASTM D3273	Pass

(All values are nominal)

STORAGE AND HANDLING

2-1 SOPRASMART ISO HD HP 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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