SOPRASTAR
FLAM GR (FR GR)

TECHNICAL DATA SHEET 240214SCANE (supersedes 230919SCANE)

WATERPROOFING

APPLICATIONS

ROOFS

DESCRIPTION

SOPRASTAR FLAM GR is a high performance cap sheet membrane composed of SBS modified bitumen and a composite reinforcement. The surface is protected by high reflective white granules and the underface is covered with a thermofusible plastic film.

Fire rated (FR) cap sheet membrane (SOPRASTAR FLAM FR GR) is available to increase fire resistance. This membrane allows the roofing system to meet the requirements of the CAN/ULC-S107 Class A standard.

INSTALLATION

HEAT-WELDED

SOPRASTAR FLAM GR and SOPRASTAR FLAM FR GR membranes are heat-welded with a propane torch.

LEED® SOLUTION

SOPRASTAR FLAM GR and SOPRASTAR FLAM FR GR have a SRI of 90, which meets the requirements of the Sustainable Sites LEED® Credit on Heat Island Reduction.

FOR COMPLETE INFORMATION ON PRODUCT INSTALLATION, PLEASE CONSULT YOUR SOPREMA REPRESENTATIVE.

GENERAL INFORMATION

Specifications	SOPRASTAR FLAM GR & SOPRASTAR FLAM FR GR
Reinforcement	Composite
Dimensions	8 x 1 m (26 x 3.3 ft)
Selvedge width	100 mm (4 in)
Surface	High reflective white granules
Underface	Thermofusible plastic film

(All values are nominal)

SOPREMA®

SYSTÈME QUALITÉ ISO 9001 QUALITY SYSTEM

SYSTÈME ENVIRONNEMENT ISO 14001 ENVIRONMENT SYSTEM

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PROPERTIES

Properties	SOPRASTAR FLAM GR & SOPRASTAR FLAM FR GR		CSA A123.23 Type C, Grade 1 Requirements
	BEFORE Heat Conditioning	AFTER Heat Conditioning	
Thickness, min.	4.0 mm (157 mils)		2.8 mm (110 mils)
Selvedge thickness, min.	2.9 mm (114 mils)		1.8 mm (70 mils)
Mass per unit area, min.	4.6 kg/m² (94 lb/100 ft²)		2.9 kg/m² (60 lb/100 ft²)
Back surface coating thickness	≥ 1.0 mm (≥ 40 mils)		min. 1.0 mm (40 mils)
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 kN/m (46/34 lbf/in) 6.0/5.5 kN/m (34/31 lbf/in)	7.5/7.0 kN/m (43/40 lbf/in) 6.5/5.5 kN/m (37/31 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)*	21/14 kN/m (120/80 lbf/in) 21/17 kN/m (120/97 lbf/in)	19/15 kN/m (108/86 lbf/in) 21/16 kN/m (120/91 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)*	55/60% 30/30%	45/50% 35/37%	Report value Report value
Ultimate elongation, MD/XD, *at 23 °C ± 2 °C (73.4 °F ± 3.6 °F)*	60/70%	53/61%	Report value
Dimensional stability, max. MD/XD	±0.3/±0.1%		0.5%
Low temperature flexibility, max. MD/XD	-30/-30 °C (-22/-22 °F)	-18/-18 °C (-0.4/-0.4 °F)	-18 °C (-0.4 °F)
Low temperature flexibility after UV weathering, max. MD/XD	< -12 °C (10 °F)		-12 °C (10 °F)
Compound stability	121/121 °C (250/250 °F)		min. 91 °C (195 °F)
Resistance to puncture	Pass		Pass
Granule embedment	< 2.0 g (0.07 oz)		max. 2.0 g (0.07 oz)

(All values are nominal)

STORAGE AND HANDLING

Rolls must be stored upright, with the selvedge side on top. If the products are stored outdoors, cover them with an opaque protection cover after removal of the delivery packaging.

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