SOPRASTAR
GR (FR GR)

WATERPROOFING

APPLICATIONS

ROOFS

TECHNICAL DATA SHEET 240213SCANE (supersedes 230919SCANE)

DESCRIPTION

SOPRASTAR 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 sanded.

Fire rated (FR) cap sheet membrane (SOPRASTAR 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

ADHESIVE

SOPRASTAR GR and SOPRASTAR FR GR are unrolled on the adhesive previously applied using a notched squeegee.

Once the membrane is in place, apply pressure over the whole surface using a membrane roller to ensure a complete and uniform adhesion.

Apply adhesive on the first 100 to 125 mm (4 to 5 in) of the end laps with a notched trowel. Complete the installation by welding the last 25 to 50 mm (1 to 2 in) of the end laps, using an electric hot-air welder and a membrane roller.

Welding must also be done on all side laps. The use of an automatic hot-air welder will increase the speed and quality of the seal.

SEBS HOT BITUMEN

SOPRASTAR GR and SOPRASTAR FR GR are unrolled in a bed of SEBS hot bitumen (SOPRASPHALTE M) applied with a mop.

LEED® SOLUTION

SOPRASTAR GR & SOPRASTAR 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 GR & SOPRASTAR 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	Sanded

(All values are nominal)

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SYSTÈME QUALITÉ ISO 9001 QUALITY SYSTEM

SYSTÈME ENVIRONNEMENT ISO 14001 ENVIRONMENT SYSTEM

SOPREMA®

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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PROPERTIES

Properties	SOPRASTAR GR & SOPRASTAR 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.	3.15 mm (124 mils)		1.8 mm (70 mils)
Mass per unit area, min.	4.6 kg/m^2 (94 lb/100 ft^2)		2.9 kg/m^2 (60 lb/100 ft^2)
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)	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)*	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)	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)*	55/55% 45/45%	50/50% 35/35%	Report value Report value
Ultimate elongation, MD/XD, *at 23 °C ± 2 °C (73.4 °F ± 3.6 °F)*	65/65%	55/55%	Report value
Dimensional stability, max. MD/XD	±0.2/±0.2%		0.5%
Low temperature flexibility, max. MD/XD	-27/-27 °C (-17/-17 °F)	-18/-18 °C (-0.4/-0.4 °F)	-18 °C (-0.4 °F)
Low temperature flexibility after UV weathering, max. MD/XD	-12/-12 °C (10/10 °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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