

Formerly known as SOPRASTAR HD GR & HD FR GR

# SOPRASTAR GR (FR GR)

TECHNICAL DATA SHEET 200903SCANE

(supersedes 200316SCANE)



WATERPROOFING

APPLICATIONS

ROOFS

## 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 meets 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 SOPRAMATIC 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 82, 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.

## PACKAGING

Specifications	SOPRASTAR GR & SOPRASTAR FR GR
Thickness	3,5 mm (138 mils)
Reinforcement	Composite
Dimensions	8 x 1 m (26 x 3,3 ft)
Weight	4,6 kg/m <sup>2</sup> (1,0 lb/ft <sup>2</sup> )
Selvedge width	100 mm (4 in)
Surface	High reflective white granules
Underface	Sanded

(All values are nominal)



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## PROPERTIES

As per CSA A123.23-15, Type C, Grade 1.

Properties	SOPRASTAR GR & SOPRASTAR FR GR	
	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 at 23 °C ± 2 °C (73.4 °F ± 3.6 °F) MD/XD	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)
Low temperature flexibility after UV weathering, max MD/XD	-12/-12 °C (10/10 °F)	
Compound stability at 102 °C (216 °F)	121/121 °C (250/250 °F)	
Resistance to puncture	Pass	
Granule embedment	Pass	

(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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