

SOPRALENE FLAM 250 GR (FR GR)

TECHNICAL DATA SHEET 240212SCANE

(supersedes 230915SCANE)



WATERPROOFING

APPLICATIONS

ROOFS

DESCRIPTION

SOPRALENE FLAM 250 GR is a cap sheet membrane composed of SBS modified bitumen and a non-woven polyester reinforcement. The surface is protected by coloured granules and the underface is covered with a thermofusible plastic film.

Fire rated (FR) cap sheet membrane (SOPRALENE FLAM 250 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.

A "winter grade" version is also available to ease the installation in cold weather.

INSTALLATION

HEAT-WELDED

SOPRALENE FLAM 250 GR and SOPRALENE FLAM 250 FR GR membranes are heat-welded with a propane torch.

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

GENERAL INFORMATION

Specifications	SOPRALENE FLAM 250 GR & SOPRALENE FLAM 250 FR GR
Reinforcement	Non-woven polyester
Dimensions	8 x 1 m (26 x 3.3 ft)
Selvedge width	75 mm (3 in)
Surface	Granules
Underface	Thermofusible plastic film

(All values are nominal)



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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	SOPRALENE FLAM 250 GR & SOPRALENE FLAM 250 FR GR		CSA A123.23 Type B, Grade I Requirements
	BEFORE Heat Conditioning	AFTER Heat Conditioning	
Thickness, min.	4.0 mm (157 mils)		3.3 mm (130 mils)
Selvage thickness, min.	2.9 mm (114 mils)		2.2 mm (85 mils)
Mass per unit area, min.	4.8 kg/m ² (100 lb/100 ft ²)		3.7 kg/m ² (75 lb/100 ft ²)
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)	9.5/7.5 kN/m (54/43 lbf/in) 10/6 kN/m (57/34 lbf/in)	7.5/6.0 kN/m (43/34 lbf/in) 7/5.5 kN/m (40/31 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)	27/19 kN/m (154/108 lbf/in) 32/20 kN/m (183/114 lbf/in)	24/18 kN/m (137/103 lbf/in) 27/18 kN/m (154/103 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)	55/65% 35/35%	45/55% 30/35%	Report value Report value
Ultimate elongation, MD/XD, at 23 °C ± 2 °C (73.4 °F ± 3.6 °F)	55/75%	45/60%	Report value
Dimensional stability, max. MD/XD	±0.2/±0.2%		1.0%
Low temperature flexibility, max. MD/XD	-18/-18 °C (-0.4/-0.4 °F)	-18/-18 °C (-0.4/-0.4 °F)	-18 °C (-0.4 °F)
Low temperature flexibility after UV weathering, max. MD/X	-12/-12 °C (10/10 °F)		-12 °C (10 °F)
Compound stability	121/121 °C (250/250 °F)		min. 102 °C (215 °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 selvage 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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