



WATERPROOFING

APPLICATIONS

ROOFS

SOPRASTAR (FR) GR FLEX

TECHNICAL DATA SHEET 210705SCANE

(supersedes 210423SCANE)

DESCRIPTION

SOPRASTAR GR FLEX is a high performance cap sheet membrane composed of SBS modified bitumen and a composite reinforcement. The bituminous mass of the SOPRASTAR GR FLEX membrane is designed to be flexible at low temperatures. The surface is protected by high reflective white granules and the underface is sanded.

Fire rated (FR) cap sheet membrane (SOPRASTAR FR GR FLEX) 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 FLEX and SOPRASTAR FR GR FLEX are unrolled on the adhesive previously applied using a notched squeegee.

Once installed, a pressure must be applied over the whole surface using a membrane roller to ensure good contact.

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

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

LEED® SOLUTION

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

PACKAGING

| Specifications | SOPRASTAR GR FLEX and SOPRASTAR FR GR FLEX |
|----------------|---|
| Thickness | 3.5 mm (138 mils) |
| Reinforcement | Composite |
| Dimensions | 10 x 1 m (33 x 3.3 ft) |
| Weight | 4.6 kg/m ² (1.0 lb/ft ²) |
| Selvedge width | 100 mm (4 in) |
| Surface | High reflective white granules |
| Underface | Sanded |

(All values are nominal)



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TDS_SOPRASTAR_FR_GR_FLEX.indd



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PROPERTIES

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

| Properties | SOPRASTAR GR FLEX and SOPRASTAR FR GR FLEX | |
|--|--|--|
| | 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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