# SOPRAFIX
## BASE 640

WATERPROOFING

APPLICATIONS

ROOFS

TECHNICAL DATA SHEET 240214SCANE (supersedes 230929SCANE)

## DESCRIPTION

SOPRAFIX BASE 640 is a high performance base sheet membrane composed of SBS modified bitumen and a composite reinforcement. Both sides are sanded.

SOPRAFIX BASE 640 is provided with DUO SELVEDGE technology which allows the immediate sealing of the membrane along side laps.

## INSTALLATION

MECHANICALLY FASTENED

SOPRAFIX BASE 640 is mechanically fastened to the steel deck with SOPREMA screws and plates.

- Mechanical fasteners must be installed in the centre of the membrane side selvedge on marks at every 150 mm (6 in)[1] along the overlap.
- On a steel deck, fasteners must be installed on the upper part of the ribs. Install membranes perpendicular to the ribs.
- Preliminary mechanical fasteners need to be installed on insulation boards at a rate of 4 fasteners per 1.2 x 1.2 m (4 X 4 ft) boards and 6 fasteners per 1.2 x 2.4 m (4 X 8 ft) boards. More fasteners may be needed depending on the wind uplift testing results[1].

Weld the last 25 mm (1 in) of the side lap using an electric hot air welder or an automatic welding cart to increase the speed and the quality of the seal.

Cover the end laps with SOPRALAP STICK membrane centred on the joint.

(1): For more details about the required number of mechanical fasteners, consult the Wind Uplift Resistance Testing reports according to Canadian standard CSA A123.21 or publications according to FM 4470 (RoofNav Database) including recommendations for corners and perimeters listed in the PLPDS 1-29 from Factory Mutual.

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

## GENERAL INFORMATION

| Specifications | SOPRAFIX BASE 640 |
|---|---|
| Reinforcement | Composite |
| Dimensions | 10 x 1 m (32.8 x 3.3 ft)<br>15 x 1 m (49.2 x 3.3 ft) |
| Selvedge width | 100 mm (4 in) |
| Surface | Sanded |
| Underface | Sanded |

(All values are nominal)

sopca-en-ca-tds-soprafix-base-640.indd



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 | SOPRAFIX BASE 640 | | CSA A123.23 Type C, Grade 3 Requirements |
|---|---|---|---|
| | BEFORE Heat Conditioning | AFTER Heat Conditioning | |
| Thickness, min. | 2.5 mm (98 mils) | | 1.8 mm (70 mils) |
| Selvedge thickness, min. | 2.25 mm (89 mils) | | 1.8 mm (70 mils) |
| Mass per unit area, min. | 3.0 kg/m$^2$ (60 lb/100 ft$^2$) | | 2.2 kg/m$^2$ (45 lb/100 ft$^2$) |
| Strain energy, min MD/XD,<br>*at 23 °C ± 2 °C (73.4 °F ± 3.6 °F)*<br>*at -18 °C ± 2 °C (0 °F ± 3.6 °F)* | 8/6.5 kN/m (46/37 lbf/in)<br>8/7 kN/m (46/40 lbf/in) | 7/6 kN/m (40/34 lbf/in)<br>6.5/6 kN/m (37/34 lbf/in) | 5.5 kN/m (31 lbf/in)<br>3.0 kN/m (17 lbf/in) |
| Peak load, min MD/XD,<br>*at 23 °C ± 2 °C (73.4 °F ± 3.6 °F)*<br>*at -18 °C ± 2 °C (0 °F ± 3.6 °F)* | 17/14 kN/m (97/80 lbf/in)<br>22/19 kN/m (126/108 lbf/in) | 18/15 kN/m (103/86 lbf/in)<br>22/17 kN/m (126/97 lbf/in) | Report value<br>Report value |
| Elongation at peak load, min MD/XD,<br>*at 23 °C ± 2 °C (73.4 °F ± 3.6 °F)*<br>*at -18 °C ± 2 °C (0 °F ± 3.6 °F)* | 55/55%<br>45/45% | 50/50%<br>35/35% | Report value<br>Report value |
| Ultimate elongation, MD/XD,<br>*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) |
| Compound stability | 121/121 °C (250/250 °F) | | min. 91 °C (195 °F) |
| Resistance to puncture | Pass | | 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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