# SOPRABASE HD

WATERPROOFING ACCESSORY

APPLICATIONS

ROOFS

TECHNICAL DATA SHEET 190423SCANE (supersedes 160420SCANE)

## DESCRIPTION

SOPRABASE HD is a high performance base sheet panel composed of SBS modified bitumen membrane with a non-woven polyester reinforcement, factory-laminated on a high density fire-resistant fibreboard (SOPRAFIBRE) support panel. The surface is covered with a thermofusible plastic film.

## INSTALLATION

### BITUMEN

SOPRABASE HD panel is intalled in a bed of hot bitumen applied with a mop.

### ADHESIVE

SOPRABASE HD panel is adhered with DUOTACK adhesives.

### MECHANICALLY FASTENED

SOPRABASE HD panel is mechanically fastened to steel deck with SOPREMA screws and plates for membranes.

Mechanical fasteners must be installed on the distinctive line of the membrane side selvedge.
On a steel deck, fasteners must be installed on the steel deck top flanges. Install membranes perpendicular to the steel deck ribs.

For more details about the required number of adhesive or 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.

### DUO SELVEDGE

Over the entire width of DUO SELVEDGE, 60 % of the surface is self-adhesive, which protects components under the base sheet. The remaining surface of the selvedge (40 %) is covered by a thermofusible plastic film to seal overlap by heat-welding with a propane torch or with the SOPRAMATIC automatic hot-air welder.

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

## PACKAGING

| Specifications | SOPRABASE HD |
|---|---|
| Total thickness (Membrane & board) | 14.9 mm (19/32 in) |
| Reinforcement of the membrane | Non-woven polyester |
| Dimensions of the board (HD Fibreboard) | 2.44 x 0.914 m (8 x 3 ft) |
| Total weight | 13.1 kg (28.8 lb) |
| Selvedge width | 90 mm (3.5 in) |
| Surface | Thermofusible plastic film |
| Underface | Fire-resistant fibreboard |

(All values are nominal)

SYSTÈME QUALITÉ ISO 9001 QUALITY SYSTEM

SYSTÈME ENVIRONNEMENT ISO 14001 ENVIRONMENT SYSTEM

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## PROPERTIES

| Properties | Standards | MEMBRANE |
|---|---|---|
| Membrane Thickness | - | 2.2 mm (86.6 mil) |
| Breaking Strength, MD/XD | CAN/CGSB-37.56-M, 9th draft | 17.0 / 12.5 kN/m |
| Ultimate Elongation, MD/XD | CAN/CGSB-37.56-M, 9th draft | 60 / 65 % |
| Tear Strength | CAN/CGSB-37.56-M, 9th draft | 60 N |
| Cold Bending - Initial<br>- 90 days at 70 °C | CAN/CGSB-37.56-M, 9th draft | -30 °C (-22 °F)<br>-30 °C (-22 °F) |

(All values are nominal)

## PROPERTIES

SOPRABASE HD panel meets the requirements of ANSI/UL 790 and CAN/ULC-S107 standards.

| Properties | Standards | HD FIBREBOARD (SOPRAFIBRE) |
|---|---|---|
| Thickness | - | 12.7 mm (½ in) |
| Specific Gravity | ASTM D1037 | 256 kg/m$^3$ (16 lbs/ft$^3$) |
| Transverse Strength | ASTM C209 | 67 N (15 lbs) |
| Tensile Strength Perpendicular to Surface, min | ASTM C209 | 36.5 kPa (761 lbs/ft$^2$) |
| Tensile Strength Parallel to Surface, min | ASTM C209 | 1.3 MPa (187 lbs/in$^2$) |
| Water Absorption | ASTM C209 | < 6 % of the volume |
| Linear Expansion | ASTM C209 | 0.10 % |
| Compresive Resistance, min (10 % deformation) | ASTM C165 | 2.4 kg/cm$^2$ (34.8 lbs/in$^2$) |
| Compresive Resistance, min (25 % deformation) | ASTM C165 | 3.6 kg/cm$^2$ (51 lbs/in$^2$) |
| Thermal Resistance (R-Value/in) | ASTM C518 | RSI 0.53 (R-3) |

(All values are nominal)

## STORAGE AND HANDLING

SOPRABASE HD base sheet panels must be stored on a flat substrate and sheltered form inclement weather. If the products are stored outdoors, cover them with an opaque protection cover.

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SYSTÈME ENVIRONNEMENT ISO 14001 ENVIRONMENT SYSTEM

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