SOPRABASE HD ISO

WATERPROOFING INSULATION

APPLICATIONS

ROOFS

TECHNICAL DATA SHEET 180620SCANE (supersedes 170126SCANE)

DESCRIPTION

SOPRABASE HD ISO is a high performance insulating 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 and on a 51 mm (2 in) polyisocyanurate insulation board (SOPRA-ISO). The surface is covered with a thermofusible plastic film.

INSTALLATION

BITUMEN

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

ADHESIVE

SOPRABASE HD ISO panel is adhered with DUOTACK adhesives.

MECHANICALLY FASTENED

SOPRABASE HD ISO 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.

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 ISO
Total thickness (Membrane & boards)	65.9 mm (2 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) 4.88 x 0.914 m (16 x 3 ft)
Dimensions of the board (Polyiso)	2.44 x 0.914 m (8 x 3 ft) 4.88 x 0.914 m (16 x 3 ft)
Total weight	7.6 kg/m² (1.55 lb/ft²)
Selvedge width	90 mm (3.5 in)
Surface	Thermofusible plastic film
Underface	Polyisocyanurate

(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	ASTM D5601	60 N
Cold Bending - Initial - 90 days at 70 °C	CAN/CGSB-37.56-M, 9th draft	-30 °C (-22 °F) -30 °C (-22 °F)

(All values are nominal)

Properties	Standards	HD FIBREBOARD (SOPRAFIBRE)
Thickness	-	12.7 mm (½ in)
Specific Gravity	ASTM D1037	256 kg/m³ (16 lbs/ft³)
Transverse Strength	ASTM C209	67 N (15 lbs)
Tensile Strength Perpendicular to Surface, min	ASTM C209	36.5 kPa (761 lbs/ft²)
Tensile Strength Parallel to Surface, min	ASTM C209	1.3 MPa (187 lbs/in²)
Water Absorption	ASTM C209	< 6 % of the volume
Linear Expansion	ASTM C209	0.10 %
Compresive Resistance, min (10 % deformation)	ASTM C165	2.4 kg/cm² (34.8 lbs/in²)
Compresive Resistance, min (25 % deformation)	ASTM C165	3.6 kg/cm² (51 lbs/in²)
Thermal Resistance (R-Value/in)	ASTM C518	RSI 0.53 (R-3)

(All values are nominal)

Properties	Standards	POLYISOCYANURATE INSULATION BOARD (SOPRA-ISO)
Board thickness	-	51 mm (2 in)
Thermal resistance (LTTR) 50.8 mm (2 po) @ 24 °C (75 °F)	CAN/ULC S704-11	2.01 RSI (R – 11.4)
Compressive Strength	ASTM D1621	138 kPa (20 psi)
Density	ASTM D1622	32 kg/m³ (2.0 lb/ft³)
Linear Dimensional Stability	ASTM D2126	< 2.0 %
Water Absorption	ASTM C209 ASTM D2842	< 1.0 % < 3.5 %
Flame Spread*	ASTM E84	40 - 60
Tensile Strength	ASTM D1623	35 kPa (> 730 lb/ft²)

(All values are nominal)

STORAGE AND HANDLING

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

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