

SOPRASMART ISO HD 180 ISO



WATERPROOFING
INSULATION

APPLICATIONS

ROOFS

TECHNICAL DATA SHEET 190424SCANE

(supersedes 180620SCANE)

DESCRIPTION

SOPRASMART ISO HD 180 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 polyisocyanurate insulation support panel (SOPRA-ISO PLUS HD) and on a 51 mm (2 in) polyisocyanurate insulation board (SOPRA-ISO). The surface is covered with a thermofusible film.

INSTALLATION

BITUMEN

SOPRASMART ISO HD 180 ISO panel is installed in a bed of hot bitumen applied with a mop.

ADHESIVE

SOPRASMART ISO HD 180 ISO panel is adhered with DUOTACK adhesive.

MECHANICALLY FASTENED

SOPRASMART ISO HD 180 ISO panel is mechanically fastened to steel deck with SOPREMA screws and plates.

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	SOPRASMART ISO HD 180 ISO
Total thickness (Membrane & Boards)	65.9 mm (2 19/32 in)
Membrane reinforcement	Non-woven polyester
Support panel dimensions (HD Polyiso)	2.44 x 0.914 m (8 x 3 ft) 4.88 x 0.914 m (16 x 3 ft)
Insulating panel dimensions (Polyiso)	2.44 x 0.914 m (8 x 3 ft) 4.88 x 0.914 m (16 x 3 ft)
Total weight	5.8 kg/m ² (1.2 lb/ft ²)
Selvedge width	90 mm (3,5 in)
Surface	Thermofusible film
Underface	Polyisocyanurate

(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.

TDS_SOPRASMART_ISO_HD_180_ISO.indd

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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 - 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 POLYISOCYANURATE SUPPORT PANEL (SOPRA-ISO PLUS HD)
Board thickness	-	12.7 mm (½ in)
Thermal resistance (R-Value) at 24 °C (75 °F)	ASTM C518	RSI 0.44 (R-2.5)
Compressive strength	ASTM D1621	> 689 kPa (90 psi)
Dimensional stability	ASTM D2126	< 0.5 % linear change
Water absorption	ASTM C209	< 3 % volume
Resistance to mold	ASTM D3273	Pass

(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

SOPRASMART ISO HD 180 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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