

# XPRESS ISO



WATERPROOFING  
INSULATION

APPLICATIONS

ROOFS

TECHNICAL DATA SHEET 180620SCANE

(supersedes 170126SCANE)

## DESCRIPTION

XPRESS 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 mineral wool (stone wool) 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

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

### ADHESIVE

XPRESS ISO panel is adhered with **DUOTACK** adhesives.

### MECHANICALLY FASTENED

XPRESS 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	XPRESS ISO
Total thickness (Membrane & boards)	65.9 mm (2 19/32 in)
Reinforcement of the membrane	Non-woven polyester
Support panel dimensions (HD mineral wool)	2.44 x 0.914 m (8 x 3 ft) 4.88 x 0.914 m (16 x 3 ft)
Insulation 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	6.85 kg/m <sup>2</sup> (1.4 lb/ft <sup>2</sup> )
Selvedge width	90 mm (3.5 in)
Surface	Thermofusible plastic 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.

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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 MINERAL WOOL (STONE WOOL)
Board thickness	-	12.7 mm (½ in)
Thermal Resistance R-Value (RSI)	ASTM C518 (C177)	0.70 m²K/W (4.0 hr.ft².F/Btu)
Reaction to fire	ASTM E84	Smoke spread: 0 Smoke develop index: 0
Water Absorption	ASTM C209	< 1 %
Compressive Strength	ASTM C165	75 kPa (11 psi)
Dimensional stability : Linear Shrinkage	ASTM C356	1.1% @ 650 °C (1200 °F)

(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 D 1621	138 kPa (20 psi)
Density	ASTM D 1622	32 kg/m³ (2.0 lb/ft³)
Linear Dimensional Stability	ASTM D 2126	< 2.0 %
Water Absorption	ASTM C 209 ASTM D 2842	< 1.0 % < 3.5 %
Flame Spread*	ASTM E 84	40 - 60
Tensile Strength	ASTM D 1623	35 kPa (> 730 lb/ft²)

(All values are nominal)

## STORAGE AND HANDLING

XPRESS 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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