

# SOPRA-ISO



INSULATION

APPLICATIONS

ROOFS

TECHNICAL DATA SHEET 200921SCANE

(supersedes 191003SCANE)

## DESCRIPTION

SOPRA-ISO is a polyisocyanurate thermal insulation board. It is composed of a closed cell polyisocyanurate foam core between organic facers reinforced with glass fibres.

It is mainly use as thermal insulation for **SOPREMA** roofing systems.

SOPRA-ISO is also available in tapered insulation.

## INSTALLATION

### MECHANICALLY FASTENED\*

Mechanically fastened with screws and stress plates for insulation.

### ADHERED WITH HOT BITUMEN

Adhered with hot bitumen (the temperature of the bitumen must be 10 °C [50 °F] below the Equiviscous Temperature [EVT<sup>1</sup>]).

### ADHERED WITH ADHESIVE\*

Adhered with one of the **DUOTACK** adhesives.

Service temperature: -73 to 122 °C (-100 to 250 °F)

\*The required number of mechanical fasteners and amount of adhesive varies from zone to zone. For more details about these requirements, consult the Wind Uplift Resistance Testing reports according to Canadian standard CSA A123.21 or Factory Mutual (FM 4470).

## RESTRICTIONS

Waterproofing membranes must not be adhered directly over **SOPRA-ISO** thermal insulation board. Always install a roofing recovery board before the installation of waterproofing membranes.

**SOPRA-ISO** thermal insulation board of 1220 mm x 2400 mm (4 ft x 8 ft) must not be adhered with hot bitumen or adhesive.

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

## PACKAGING

Specifications	SOPRA-ISO
Thickness	25 mm to 152 mm (1 to 6 in)*
Dimensions	1.2 x 1.2 m (4 x 4 ft) 1.2 x 2.4 m (4 x 8 ft)
Surface	Organic facers reinforced with glass fibres
Underface	Organic facers reinforced with glass fibres

\*Others thicknesses available upon request.  
(All values are nominal)

1.Equiviscous Temperature (EVT): The temperature at which bitumen reaches an ideal viscosity threshold of 125 cP (0.125 Pa·s), which guarantees the quantity of mop-applied inter-ply asphalt used in laminated roofing systems (www.roofingcanada.com).



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## PROPERTIES

SOPRA-ISO meets the physical property requirements of ASTM C 1289, Type II, Class 1, Grade 2 (20 psi) or Grade 3 (25 psi) and CAN/ULC S704 Type II (20 psi) and Type III (25 psi).

Properties	Standards	SOPRA-ISO
Thermal Resistance (LTTR) (RSI-Value [R Value] / 25.4 mm [1 in] @ 24 °C [75 °F])	CAN/ULC S704-11	25.40 mm (1.0 in)
38.10 mm (1.5 in)		
50.80 mm (2.0 in)		
1.00 RSI (R – 5.7) 1.50 RSI (R – 8.6) 2.01 RSI (R – 11.4)		
Metal Deck Maximum Flute Spanability based on SOPRA-ISO thickness	-	≥ 25.40 mm (1.0 in) < 35.56 mm (1.4 in)
> 38.10 mm (1.5 in) ≤ 101.60 mm (4.0 in)		66.70 mm (2 5/8 in) 111.10 mm (4 3/8 in)
Compressive Strength	ASTM D 1621	138 kPa (20 psi) 172 kPa (25 psi)
Density	ASTM D 1622	32 kg/m <sup>3</sup> (2.0 lb/ft <sup>3</sup> )
Linear Dimensional Stability	ASTM D 2126	< 0.5 %
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/ft <sup>2</sup> )

\*The numerical ratings as determined by ASTM Test Method E 84 are not intended to reflect hazards presented by this or any other material under actual fire conditions. (All values are nominal)

## STORAGE AND HANDLING

The SOPRA-ISO thermal insulation boards are covered with a waterproof packaging for handling the panels in the manufacturing plant and during transit only.

SOPRA-ISO thermal insulation boards must be stored on a flat substrate and sheltered from inclement weather.

In addition, the temporary SOPREMA applied packaging must be removed to prevent accumulation of condensation.

When short-term outdoor storage is necessary, SOPRA-ISO thermal insulation boards must be stacked on skids at least 75 mm (3 in) above the ground, store flat and cover with a waterproof cover such as a canvas tarpaulin.

Refer to PIMA Technical Bulletin No. 109: Storage & Handling Recommendations for Polyiso Roof Insulation at [www.polyiso.org](http://www.polyiso.org).



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