SOPRA-ISO

INSULATION

APPLICATIONS

ROOFS

TECHNICAL DATA SHEET 220728SCANE (supersedes 210803SCANE)

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 insulation boards are also available in a tapered version.

SOPRA-ISO meets GREENGUARD GOLD certification.

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[1]]).

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).

(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).

RESTRICTIONS

Do not install waterproofing membranes directly over SOPRA-ISO thermal insulation boards, except for mechanically fastened membranes. A support panel must be install before the installation of any other waterproofing membrane.

SOPRA-ISO thermal insulation boards 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

(All values are nominal)

* Others thicknesses available upon request.

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SOPREMA®

GREENGUARD GOLD

SYSTÈME QUALITÉ ISO 9001 QUALITY SYSTEM

SYSTÈME ENVIRONNEMENT ISO 14001 ENVIRONMENT SYSTEM

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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])*	25.40 mm (1.0 in) 38.10 mm (1.5 in) 50.80 mm (2.0 in)	CAN/ULC S770	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 in)	-	66.70 mm (2 5/8 in) 111.10 mm (4 3/8 in)
Compressive Strength		ASTM D1621	138 kPa (20 psi) 172 kPa (25 psi)
Density		ASTM D1622	32 kg/m^3 (2.0 lb/ft^3)
Linear Dimensional Stability		ASTM D2126	< 0.5 %
Water Absorption		ASTM C209 ASTM D2842	< 1.0 % < 3.5 %
Flame Spread*		ASTM E84	40 - 60
Tensile Strength		ASTM D1623	35 kPa (> 730 lb/ft^2)

(All values are nominal)

* The numerical ratings as determinated by ASTM Test Method E84 are not intended to reflect hazards presented by this or any other material under actual fire conditions.

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.