SOPRA-ISO PLUS

INSULATION

APPLICATIONS

WALLS

TECHNICAL DATA SHEET 150422SCAN2F (supersedes 141006SCAN2F)

DESCRIPTION

SOPRA-ISO PLUS is a polyisocyanurate insulation board. It is composed of a closed cell polyisocyanurate foam core between polymers coated glass fibres facers.

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

SOPRA-ISO PLUS 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[1]).

ADHERED WITH ADHESIVE

Adhered with DUOTACK or COLTACK adhesives.

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 A123.21-14 or Factory Mutual (FM 4470).

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

RESTRICTIONS

Waterproofing membranes must not be adhered directly to SOPRA-ISO PLUS insulation board, except COLVENT BASE 810 and COLVENT BASE 830 (without primer) and COLVENT BASE 820 and COLVENT BASE 840 (with primer). Otherwise, a recovery board for roofing must be put in place before the installation of any other waterproofing membranes. 1200 x 2400 mm (4 ft x 8 ft) boards must not be adhered with hot bitumen or adhesive.

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

PACKAGING

Specifications	SOPRA-ISO PLUS
Thickness	13 mm to 100 mm (0.5 to 4 in)*
Dimensions	1.2 x 1.2 m (4 x 4 ft) 1.2 x 2.4 m (4 x 8 ft)
Surface	Polymers coated glass fibres facers
Underface	Polymers coated glass fibres facers

*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).

SYSTÈME QUALITÉ ISO 9001 QUALITY SYSTEM

SYSTÈME ENVIRONNEMENT ISO 14001 ENVIRONMENT SYSTEM

SOPREMA®

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PROPERTIES

SOPRA-ISO PLUS meets the physical property requirements of ASTM C 1289, Type II, Class 2, 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 PLUS
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 S704-11	 1.00 RSI (R – 5.7) 1.50 RSI(R – 8.6) 2.01 RSI (R – 11.4)
Metal Desk 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^3 (2.0 lb/ft^3)
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/ft^2)

*The numerical ratings as determinated 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 PLUS panels are covered with a waterproof packaging for handling the panels in the manufacturing plant and during transit only.

When short-term outdoor storage is necessary, SOPRA-ISO PLUS panels 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. In addition, the temporary SOPREMA applied packaging must be removed to prevent accumulation of condensation.

Refer to PIMA Technical Bulletin No. 109: Storage & Handling Recommendations for Polyiso Roof Insulation at www.polyiso.org.