



INSULATION

APPLICATIONS

WALLS

SOPRA-ISO V PLUS

TECHNICAL DATA SHEET 220413SCANE

(supersedes 210830SCANE)

DESCRIPTION

SOPRA-ISO V PLUS is a closed-cell polyisocyanurate foam insulation board laminated with a non-reflective glass-mat facer on both sides.

SOPRA-ISO V PLUS is used as thermal insulation in SOPREMA's wall systems.

RECOMMENDED SUBSTRATES

This product can be used on most substrates using fasteners or adhesive, such as concrete, wood, wood stud, steel stud, glass-mat gypsum, air/vapour barrier membranes.

APPLICATION

MECHANICALLY FASTENED

Mechanically fastened with screws and stress plates for insulation.

Minimum penetration depth depending on the substrate:

- Fasteners for wood studs 19.0 mm (3/4")
- Fasteners for steel studs 6.5 mm (1/4")
- Fasteners for concrete wall 19.0 à 32.0 mm (3/4" à 1 1/4")

Service temperature: -60 °C to 93 °C (-76 °F to 199 °F)

RESTRICTIONS

SOPRA-ISO V PLUS is not a structural product. SOPRA-ISO V PLUS must not be left exposed for more than 60 days.

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

PACKAGING

Specifications	SOPRA-ISO V PLUS
Thickness	13.0 to 102.0 mm (0.5 to 4.0 in)*
Dimensions	1.2 x 2.4 m (4 x 8 ft)*
Surface	Non-reflective glass-mat facer
Underface	Non-reflective glass-mat facer

(All values are nominal)

* Other thicknesses and dimensions available upon request.



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PROPERTIES

SOPRA-ISO V PLUS meets or exceeds the following properties.

Properties		Standards	SOPRA-ISO V PLUS
Thermal values ⁽¹⁾	12.7 mm (0.5 in) 19.1 mm (0.75 in) 25.4 mm (1.0 in) 38.1 mm (1.5 in) 50.8 mm (2.0 in) 63.5 mm (2.5 in) 76.2 mm (3.0 in) 89.0 mm (3.5 in) 101.6 mm (4.0 in)	CAN/ULC S770 and CAN/ULC S704.1: 2017 Type 2, Class 2	0.53 RSI (R - 3.00) 0.79 RSI (R - 4.50) 1.05 RSI (R - 6.00) 1.58 RSI (R - 9.00) 2.13 RSI (R - 12.10) 2.69 RSI (R - 15.30) 3.26 RSI (R - 18.50) 3.82 RSI (R - 21.70) 4.40 RSI (R - 25.00)
Long term thermal resistance (LTTR)	25 mm (1.0 in) 50 mm (2.0 in) 75 mm (3.0 in)	CAN/ULC S770 and CAN/ULC S704.1: 2017 Type 2, Class 2	0.98 RSI (R - 5.63) 1.97 RSI (R - 11.40) 3.00 RSI (R - 17.31)
Tensile strength		ASTM D1623	> 35 kPa (5.08 psi)
Flexural strength		ASTM C203	> 275 kPa (40 psi)
Compressive Strength		ASTM D1621	> 140 kPa (20 psi)
Water vapour permeance		ASTM E96 (Method A)	58 ng/Pa·s·m ² at 25.4 mm (1.01 perm)
Water absorption		ASTM D2842	1.1 % by volume
<u>Dimensional stability:</u> at -29 °C (-20 °F), ambient humidity at 80 °C (176 °F), ambient humidity at 70 °C (158 °F), 97 % relative humidity		ASTM D2126	< 0.5 %
Flame spread		CAN/ULC S102	> 25 < 500
Flame spread		ASTM E84	< 75
Smoke development		ASTM E84	< 450

(All values are nominal)

For CCMC product evaluation see CCMC Evaluation listing CCMC 14288-L.

(1) Conditioned thermal values were determined by ASTM Test Method C518 at 23.9 °C (75 °F) mean temperature. Test specimens were conditioned in accordance with procedures outlined in the CAN/ULC S770 and the CAN/ULC S704.1: 2017 standards.



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STORAGE AND HANDLING

SOPRA-ISO V 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 V 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 and Handling Recommendations for Polyiso Roof Insulation at www.polyiso.org.



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