



INSULATION

APPLICATIONS

WALLS

# SOPRA-ISO V PLUS

TECHNICAL DATA SHEET 210803SCANE

(supersedes 201021SCANE)

## 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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1/3



INSULATION

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## PROPERTIES

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

Properties		Standards	SOPRA-ISO V PLUS
Thermal values <sup>(1)</sup>	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)	$\geq 15, \leq 60$ ng/Pa·s·m <sup>2</sup> at 25.4 mm ( $\geq 0.26$ perm, $\leq 1.05$ perm)
Water absorption		ASTM D2842	< 3.5 % by volume (typically < 0.6 % 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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2/3



INSULATION

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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](http://www.polyiso.org).



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3/3