



INSULATION

APPLICATIONS

WALLS

# SOPRA-ISO V PLUS

TECHNICAL DATA SHEET 180717SCANE

(supersedes 160915SCANE)

## DESCRIPTION

SOPRA-ISO V PLUS is a closed-cell polyisocyanurate foam insulation board laminated with a non-reflective coated 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 (minimum penetration 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: -73 °C to 122 °C (-99 °F to 252 °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 coated glass-mat facer
Underface	Non-reflective coated glass-mat facer

(All values are nominal)



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## PROPERTIES

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

Properties	Standards	SOPRA-ISO V PLUS
Thermal values* 13.0 mm (0.5 in) 19.0 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) 102.0 mm (4.0 in)	CAN/ULC S704 Type 2, Class 3	0.53 RSI (R - 3.0) 0.79 RSI (R - 4.5) 1.06 RSI (R - 6.0) 1.58 RSI (R - 9.0) 2.13 RSI (R - 12.1) 2.69 RSI (R - 15.3) 3.26 RSI (R - 18.5) 3.82 RSI (R - 21.7) 4.40 RSI (R - 25.0)
Tensile strength	ASTM D1623	> 35 kPa (5.08 psi)
Flexural strength	ASTM C203	> 275 kPa (40 psi)
Water vapour permeance	ASTM E96 (method A)	> 60.0 ng/Pa•s•m <sup>2</sup> at 25.4 mm (≤ 1.05 perm at 1 in)
Water absorption	ASTM D2842	< 3.5 % by volume (typically < 0.6 % by volume)
Dimensional stability at -29 °C (-20 °F), ambient humidity at 80 °C (176 °F), ambient humidity at 70 °C (158 °F), 97 % relative humidity	ASTM D2126	± 2 % length or width
Flame spread	CAN/ULC S102	> 25 < 500
Flame spread	ASTM E84	< 75
Smoke development	ASTM E84	< 450

\* 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 CAN/ULC S704.

For CCMC product evaluation see CCMC Evaluation listing (All values are nominal)

\* LTTR value for SOPRA-ISO V PLUS is 5.7 for 25.4 mm (1 inch).

## 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 SOPEMA 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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