



INSULATION

APPLICATIONS

WALLS

# SOPRA-ISO V PLUS

TECHNICAL DATA SHEET 250701SCANE

(supersedes 240307SCANE)

## 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.

## INSTALLATION

### 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 in)
- Fasteners for steel studs 6.5 mm (1/4 in)
- Fasteners for concrete wall 19.0 to 32.0 mm (3/4 to 1 1/4 in)

**Service temperature:** -60 to 93 °C (-76 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.

## GENERAL INFORMATION

Specifications	SOPRA-ISO V PLUS
Thicknesses <sup>(1)</sup>	13.0 to 102.0 mm (0.5 to 4.0 in)
Dimensions <sup>(1)</sup>	1.2 x 2.4 m (4 x 8 ft)
Surface	Non-reflective glass-mat facer
Underface	Non-reflective glass-mat facer

(1): Other thicknesses and dimensions available upon request.



SOPREMA.US • 1.800.356.3521

SOPREMA.CA • 1.877.MAMMOUTH

1/3

sopce-en-ca-tds-sopra-iso-v-plus.indd



INSULATION

APPLICATIONS

WALLS

# SOPRA-ISO V PLUS

TECHNICAL DATA SHEET 250701SCANE

(supersedes 240307SCANE)

## PROPERTIES

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

Properties	Standards	SOPRA-ISO V PLUS
Thermal values (LTTR) <sup>(1)</sup> , as per available board thicknesses	CAN/ULC S770 and CAN/ULC S704.1: 2017 Type 2, Class 2	12.7 mm (0.5 in) 0.49 RSI (R - 2.80)
19.1 mm (0.75 in) 0.74 RSI (R - 4.22)		
25.4 mm (1.0 in) 0.99 RSI (R - 5.63)		
38.1 mm (1.5 in) 1.50 RSI (R - 8.49)		
50.8 mm (2.0 in) 2.01 RSI (R - 11.40)		
63.5 mm (2.5 in) 2.52 RSI (R - 14.34)		
76.2 mm (3.0 in) 3.05 RSI (R - 17.31)		
88.9 mm (3.5 in) 3.58 RSI (R - 20.32)		
101.6 mm (4.0 in) 4.11 RSI (R - 23.36)		
Long term thermal resistance (LTTR),	CAN/ULC S770 and CAN/ULC S704.1: 2017 Type 2, Class 2	25 mm (1.0 in) 0.98 RSI (R - 5.63)
50 mm (2.0 in) 1.97 RSI (R - 11.40)		
75 mm (3.0 in) 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, at 25.4 mm (1 in)	ASTM E96 (Procedure A)	58 ng/Pa•s•m <sup>2</sup> (1.01 perm)
Water absorption	ASTM D2842	1.1% 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	< 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.



SOPREMA.US • 1.800.356.3521

SOPREMA.CA • 1.877.MAMMOUTH

2/3

sopce-en-ca-tds-sopra-iso-v-plus.indd



INSULATION

APPLICATIONS

WALLS

# SOPRA-ISO V PLUS

TECHNICAL DATA SHEET 250701SCANE

(supersedes 240307SCANE)

## 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).

## TESTS, CERTIFICATIONS AND EVALUATIONS



FOR MORE INFORMATION, REFER TO THE INSTRUCTIONS ON THE LABEL AND RELEVANT SAFETY DATA SHEET (SDS).



SOPREMA.US • 1.800.356.3521

SOPREMA.CA • 1.877.MAMMOUTH

sopce-en-ca-tds-sopra-iso-v-plus.indd

3/3