SOPRA-ISO
V ALU

INSULATION

APPLICATIONS

WALLS

TECHNICAL DATA SHEET 200514SCANE (supersedes 190502SCANE)

DESCRIPTION

SOPRA-ISO V ALU is a closed-cell polyisocyanurate foam insulation board laminated with a radiant barrier quality reflective foil facer on the back side and a non-reflective aluminium facer on the top surface.

SOPRA-ISO V ALU 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 ALU is not a structural product.

SOPRA-ISO V ALU 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 ALU
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 aluminum facer
Underface	Radiant barrier reflective foil facer

(All values are nominal)
* Other thicknesses and dimensions available upon request.

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PROPERTIES

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

Properties	Standards	SOPRA-ISO V ALU
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 1	 0.6 RSI (R - 3.3) 0.9 RSI (R - 4.9) 1.1 RSI (R - 6.5) 1.7 RSI (R - 9.8) 2.3 RSI (R - 13.1) 2.9 RSI (R - 16.4) 3.5 RSI (R - 19.8) 4.1 RSI (R - 23.3) 4.7 RSI (R - 26.8)
Tensile strength	ASTM D1623	> 35 kPa (5.08 psi)
Compressive strength	ASTM D1621	> 140 kPa (20 psi)
Flexural strength	ASTM C203	> 275 kPa (40 psi)
Water vapour permeance	ASTM E96 (method A)	≤ 15.0 ng/Pa•s•m² at 25.4 mm (≤ 0.3 perm at 1 in)
Water absorption	ASTM D2842	< 3.5 % by volume (typically < 1.6 % by volyme)
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

* 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.
(All values are nominal)
* LTTR value for SOPRA-ISO V ALU is 6.0 for 25.4 mm (1 inch).

STORAGE AND HANDLING

SOPRA-ISO V ALU 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 ALU** 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.