SOPRA-ISO
V ALU

TECHNICAL DATA SHEET **261105SCANE** (supersedes 260728SCANE)

DESCRIPTION

SOPRA-ISO V ALU is a closed-cell polyisocyanurate foam insulation board laminated with a radiant barrier reflective foil facer on both sides.

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.

INSTALLATION

MECHANICALLY FASTENED

1. Mechanically fastened with screws and stress plates for insulation. When it's necessary to seal joints between boards, always apply the tape to the printed side of the panel.

- 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 walls 19.0 to 32.0 mm (3/4 to 1 1/4 in)

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.

GENERAL INFORMATION

Specifications	SOPRA-ISO V ALU
Thicknesses (1)	13.0 to 102.0 mm (0.5 to 4.0 in)
Dimensions (1)	1.2 x 2.4 m (4 x 8 ft)
Surface	Radiant barrier reflective foil facer
Underface	Radiant barrier reflective foil facer
Service temperature	-60 to 93 °C (-76 to 199 °F)

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

NOTE : All products manufactured by SOPREMA Inc. comply with the description and properties indicated in the technical data sheet that was current at the date of manufacture. This technical data sheet applies to products sold on the Canadian market only.

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PROPERTIES

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

Properties		Standards	SOPRA-ISO V ALU
Thermal values (LTTR) [1], *as per available board thicknesses*	*12.7 mm (0.5 in)*	CAN/ULC S770 and CAN/ULC S704.1: 2017 Type 1, Class 1	0.54 RSI (R - 3.05)
	19.1 mm (0.75 in)		0.81 RSI (R - 4.61)
	25.4 mm (1.0 in)		1.08 RSI (R - 6.14)
	38.1 mm (1.5 in)		1.63 RSI (R - 9.25)
	50.8 mm (2.0 in)		2.18 RSI (R - 12.39)
	63.5 mm (2.5 in)		2.74 RSI (R - 15.55)
	76.2 mm (3.0 in)		3.30 RSI (R - 18.75)
	88.9 mm (3.5 in)		3.87 RSI (R - 21.97)
	101.6 mm (4.0 in)		4.44 RSI (R - 25.22)
Long-term thermal resistance (LTTR),	*25 mm (0.98 in)*		1.07 RSI (R - 6.07)
	50 mm (1.97 in)		2.14 RSI (R - 12.15)
	75 mm (2.95 in)		3.25 RSI (R - 18.46)
Tensile strength		ASTM D1623	> 24 kPa (3.48 psi)
Flexural strength		ASTM C203	> 170 kPa (24.66 psi)
Compressive strenght		ASTM D1621	> 110 kPa (15.95 psi)
Water vapour permeance, *at 25.4 mm (1 in)*		ASTM E96 *(Procedure A)*	≤ 15.0 ng/Pa•s•m² (≤ 0.3 perm)
Water absorption		ASTM D2842	1.0% by volume
Linear dimensional stability [2],	*at -29 °C (-20 °F), ambient humidity*	ASTM D2126	< 0.5%
	at 80 °C (176 °F), ambient humidity		
	at 70 °C (158 °F), 97% relative humidity		
Flame spread		CAN/ULC S102	> 25 < 500
		ASTM E84	< 75
Smoke development			< 450

(All values are nominal)
(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.
(2): The ASTM D2126 standard requires a maximum dimensional stability of 2% for each condition.
For CCMC product evaluation see CCMC Evaluation listing CCMC 14288-L.

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STORAGE AND HANDLING

SOPRA-ISO V ALU boards are fully covered with a waterproof packaging designed to protect the product. If the packaging was damaged during transport, it is recommended to remove it in order to eliminate any moisture that may have infiltrated beneath it.

For short-term outdoor storage:

- Stack the boards flat on skids, at least 75 mm (3 in) above the ground.
- Cover the boards with a waterproof covering, secured to prevent displacement by the wind.

Refer to PIMA Technical Bulletin No. 109: *Storage & Handling Recommendations for Polyiso Roof Insulation* at www.polyiso.org.

TESTS, CERTIFICATIONS AND EVALUATIONS

CCMC EVALUATION 14288-L

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

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