



INSULATION

APPLICATIONS

WALLS

# SOPRA-ISO V ALU

TECHNICAL DATA SHEET 231219SCANE

(supersedes 220413SCANE)

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

Service temperature: -60 °C to 93 °C (-76 °F to 199 °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.

## GENERAL INFORMATION

| Specifications            | SOPRA-ISO V ALU                       |
|---------------------------|---------------------------------------|
| Thickness <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                   | Radiant barrier reflective foil facer |
| Underface                 | Radiant barrier reflective foil facer |

(All values are nominal)

(1): 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, <sup>(1)</sup>       | 12.7 mm (0.5 in)<br>19.1 mm (0.75 in)<br>25.4 mm (1.0 in)<br>38.1 mm (1.5 in)<br>50.8 mm (2.0 in)<br>63.5 mm (2.5 in)<br>76.2 mm (3.0 in)<br>89.0 mm (3.5 in)<br>101.6 mm (4.0 in) | CAN/ULC S770 and CAN/<br>ULC S704.1: 2017<br>Type 1, Class 1 | 0.58 RSI (R - 3.30)<br>0.86 RSI (R - 4.90)<br>1.14 RSI (R - 6.50)<br>1.73 RSI (R - 9.80)<br>2.31 RSI (R - 13.10)<br>2.89 RSI (R - 16.40)<br>3.49 RSI (R - 19.80)<br>4.10 RSI (R - 23.30)<br>4.72 RSI (R - 26.80) |
| Long term thermal resistance (LTTR), | 25 mm (1.0 in)<br>50 mm (2.0 in)<br>75 mm (3.0 in)                                                                                                                                 | CAN/ULC S770 and<br>CAN/ULC S704.1: 2017<br>Type 1, Class 1  | 1.07 RSI (R - 6.11)<br>2.14 RSI (R - 12.36)<br>3.25 RSI (R - 18.46)                                                                                                                                              |
| Tensile strength                     |                                                                                                                                                                                    | ASTM D1623                                                   | > 24 kPa (3.48 psi)                                                                                                                                                                                              |
| Compressive strength                 |                                                                                                                                                                                    | ASTM D1621                                                   | > 110 kPa (15.95 psi)                                                                                                                                                                                            |
| Flexural strength                    |                                                                                                                                                                                    | ASTM C203                                                    | > 170 kPa (24.66 psi)                                                                                                                                                                                            |
| Water vapour permeance               |                                                                                                                                                                                    | ASTM E96<br>(Procedure A)                                    | ≤ 15.0 ng/Pa·s·m <sup>2</sup> at 25.4 mm<br>(≤ 0.3 perm at 1 in)                                                                                                                                                 |
| Water absorption                     |                                                                                                                                                                                    | ASTM D2842                                                   | 1.0 % by volume                                                                                                                                                                                                  |
| Dimensional stability,               | at -29 °C (-20 °F), ambient humidity<br>at 80 °C (176 °F), ambient humidity<br>at 70 °C (158 °F), 97 % relative humidity                                                           | ASTM D2126                                                   | < 0.5 %                                                                                                                                                                                                          |
| Flame spread                         |                                                                                                                                                                                    | CAN/ULC S102                                                 | > 25<br>< 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.

## 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 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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