



INSULATION

APPLICATIONS

ROOFS

# SOPRA-ISO PLUS

TECHNICAL DATA SHEET 210803SCANE

(supersedes 210512SCANE)

## DESCRIPTION

SOPRA-ISO PLUS is a polyisocyanurate thermal insulation board. It is composed of a closed cell polyisocyanurate foam core between polymers coated glass fibers facers. It is mainly use as thermal insulation for SOPREMA roofing systems.

SOPRA-ISO PLUS nsulation boards are also available in a tapered version.

SOPRA-ISO PLUS meets GREENGUARD GOLD certification.

## INSTALLATION

### MECHANICALLY FASTENED

Mechanically fastened with screws and stress plates for insulation.\*

### ADHERED WITH HOT BITUMEN

Adhered with hot bitumen (the temperature of the bitumen must be 10 °C [50 °F] below the Equiviscous Temperature [EVT<sup>1</sup>]).

### ADHERED WITH ADHESIVE

Adhered with one of the DUOTACK adhesives.\*

Service temperature: -73 to 122 °C (-100 to 250 °F).

\* The required number of mechanical fasteners and amount of adhesive varies from zone to zone. For more details about these requirements, consult the Wind Uplift Resistance Testing reports according to Canadian standard CSA A123.21 or Factory Mutual (FM 4470).

(1) Equiviscous Temperature (EVT): The temperature at which bitumen reaches an ideal viscosity threshold of 125 cP (0.125 Pa·s), which guarantees the quantity of mop-applied inter-ply asphalt used in laminated roofing systems ([www.roofingcanada.com](http://www.roofingcanada.com)).

## RESTRICTIONS

Do not install waterproofing membranes directly over SOPRA-ISO PLUS thermal insulation boards, except for COLVENT BASE 830 (without primer), COLVENT BASE 840 (with primer) and mechanically fastened membranes. A support panel must be install before the installation of any other waterproofing membrane.

SOPRA-ISO PLUS thermal insulation boards of 1200 x 2400 mm (4 ft x 8 ft) must not be adhered with hot bitumen or adhesive.

FOR COMPLETE INFORMATION ON PRODUCT INSTALLATION, PLEASE CONSULT YOUR SOPREMA REPRESENTATIVE.

## PACKAGING

| Specifications | SOPRA-ISO PLUS                                       |
|----------------|--|
| Thickness      | 25 mm to 152 mm (1 to 6 in)*                         |
| Dimensions     | 1.22 x 1.22 m (4 x 4 ft)<br>1.22 x 2.44 m (4 x 8 ft) |
| Surface        | Polymers coated glass fibres facers                  |
| Underface      | Polymers coated glass fibres facers                  |

(All values are nominal)

\* Others thicknesses available upon request.



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## PROPERTIES

SOPRA-ISO PLUS meets the physical property requirements of ASTM C 1289, Type II, Class 1, Grade 2 (20 psi) or Grade 3 (25 psi) and CAN/ULC S704 Type II (20 psi) and Type III (25 psi).

| Properties   |   | Standards               | SOPRA-ISO PLUS  |
|--|---|-------------------------|---|
| Thermal Resistance (LTTR)<br>(RSI-Value [R Value] / 25.4 mm [1 in]<br>@ 24 °C [75 °F]) | 25.40 mm (1.0 in)<br>38.10 mm (1.5 in)<br>50.80 mm (2.0 in)                                     | CAN/ULC S770            | 1.00 RSI (R – 5.7)<br>1.50 RSI (R – 8.6)<br>2.01 RSI (R – 11.4) |
| Metal Deck Maximum Flute Spanability<br>(based on SOPRA-ISO thickness)                 | ≥ 25.40 mm (1.0 in) &<br>< 35.56 mm (1.4 in)<br><br>> 38.10 mm (1.5 in) &<br>≤ 101.60 mm (4 in) | -                       | 66.70 mm (2 5/8 in)<br><br>111.10 mm (4 3/8 in)                 |
| Compressive Strength   |   | ASTM D1621              | 138 kPa (20 psi)<br>172 kPa (25 psi)                            |
| Density  |   | ASTM D1622              | 32 kg/m <sup>3</sup> (2.0 lb/ft <sup>3</sup> )                  |
| Linear Dimensional Stability   |   | ASTM D2126              | < 0.5 %   |
| Water Absorption   |   | ASTM C209<br>ASTM D2842 | < 1.0 %<br>< 3.5 %  |
| Flame Spread*  |   | ASTM E84                | 40 - 60   |
| Tensile Strength   |   | ASTM D1623              | 35 kPa (> 730 lb/ft <sup>2</sup> )                              |

(All values are nominal)

\* The numerical ratings as determined by ASTM Test Method E84 are not intended to reflect hazards presented by this or any other material under actual fire conditions.

## STORAGE AND HANDLING

The SOPRA-ISO PLUS thermal insulation boards are covered with a waterproof packaging for handling the panels in the manufacturing plant and during transit only.

SOPRA-ISO PLUS thermal insulation boards must be stored on a flat substrate and sheltered from inclement weather. In addition, the temporary SOPREMA applied packaging must be removed to prevent accumulation of condensation.

When short-term outdoor storage is necessary, SOPRA-ISO PLUS thermal insulation boards 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.

Refer to PIMA Technical Bulletin No. 109: Storage & Handling Recommendations for Polyiso Roof Insulation at [www.polyiso.org](http://www.polyiso.org).



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