# SOPRA-ISO

TECHNICAL DATA SHEET **261106SCANE** (supersedes 260119SCANE)

## DESCRIPTION

SOPRA-ISO is a polyisocyanurate thermal insulation board. It is composed of a closed-cell polyisocyanurate foam core between organic facers reinforced with glass fibres.

SOPRA-ISO is mainly used as thermal insulation for SOPREMA roofing systems and is also available in a tapered version.

SOPRA-ISO meets GREENGUARD GOLD certification.

## INSTALLATION

### MECHANICALLY FASTENED

- Mechanically fastened with screws and plates for insulation [(1)].

### ADHERED WITH HOT BITUMEN

- Adhered with hot bitumen, with the bitumen temperature of 28 °C (50 °F) below the Equiviscous Temperature [EVT] [(2)].

### ADHERED WITH ADHESIVE

- Adhered with one of the DUOTACK adhesives [(1)].

(1): 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).

(2): 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).

## RESTRICTIONS

- Do not install waterproofing membranes directly over SOPRA-ISO thermal insulation boards, except for mechanically fastened membranes. A support panel must be installed before the installation of any other waterproofing membrane.
- SOPRA-ISO thermal insulation boards of 1.22 x 2.44 m (4 x 8 ft) must not be adhered with hot bitumen or adhesive.

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

## GENERAL INFORMATION

| Specifications | SOPRA-ISO |
|---|---|
| Thicknesses [(1)] | 25 to 152 mm (1 to 6 in) |
| Dimensions [(1)] | 1.22 x 1.22 m (4 x 4 ft)<br>1.22 x 2.44 m (4 x 8 ft) |
| Surface | Organic facers reinforced with glass fibres |
| Underface | Organic facers reinforced with glass fibres |
| Service temperature | -73 to 122 °C (-100 to 250 °F) |

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



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

| Properties | | Standards | SOPRA-ISO |
|---|---|---|---|
| Thermal resistance (LTTR), *RSI-Value (R Value), at 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, *based on SOPRA-ISO thickness* | *≥ 25.40 mm (1.0 in) & < 35.56 mm (1.4 in)*<br>*> 38.10 mm (1.5 in) & ≤ 101.60 mm (4 in)* | - | 66.70 mm (2 5/8 in)<br>111.10 mm (4 3/8 in) |
| Compressive strength | | ASTM D1621 | 138 kPa (20 psi)<br>172 kPa (25 psi) [1] |
| Linear dimensional stability [2], | *at -29 °C (-20.2 °F)*<br>*at 80 °C (176 °F)*<br>*at 70 °C (158 °F) and 97% RH* | ASTM D2126 | < 0.5%<br>< 0.2%<br>< 0.7% |
| Water absorption | | ASTM C209 | < 1.0% |
| | | ASTM D2842 | < 3.5% |
| Flame spread [3] | | ASTM E84 | 40-60 |
| Tensile strength | | ASTM D1623 | 35 kPa (> 730 lb/ft²) |

(All values are nominal)
(1): Available upon request.
(2): The ASTM D2126 standard requires a maximum dimensional stability of 2% for each condition.
(3): 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.
**Note: For CCMC product evaluation see CCMC Evaluation listing 14084-L.**

## STORAGE AND HANDLING

SOPRA-ISO 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 14084-L

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