

# SOPRA-ISO PLUS HD



INSULATION

APPLICATIONS

ROOFS

TECHNICAL DATA SHEET 180924SCANE

(supersedes 180828SCANE)

## DESCRIPTION

SOPRA-ISO PLUS HD is both a support panel and a high-density polyisocyanurate thermal insulation. It is composed of a closed-cell core structure placed between two polymers coated glass fibers facers.

SOPRA-ISO PLUS HD is designed to be used as a membrane support on low slope roofs. It can be installed on plywood or on rigid insulation.

SOPRA-ISO PLUS HD can be used as a support for modified bitumen waterproofing membranes that are installed with adhesive, and for self-adhesive membranes.

Modified bitumen waterproofing membranes cannot be welded directly to the panel or adhere with hot bitumen.

## INSTALLATION

### MECHANICALLY FASTENED

Mechanically attach the panel with screws and plates designed for insulation.

### ADHERED WITH ADHESIVE

Adhere the panel with one of the **DUOTACK** adhesives (for 1.2 x 1.2 m (4 x 4 ft) panels only).

The quantity of mechanical fasteners or the amount of adhesive varies from one area to another. For more information on the required quantities, refer to the reports on dynamic wind uplift tests completed in accordance with CSA A123.21 or Factory Mutual FM 4470 (RoofNav database) including recommendations for corners and perimeters indicated in the PLPDS 1-29 of Factory Mutual.

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

## RESTRICTION

SOPRA-ISO PLUS HD panels must not be adhered with hot bitumen.

Modified bitumen waterproofing membranes cannot be welded directly to the panel or adhere with hot bitumen.

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

## PACKAGING

Specifications	SOPRA-ISO PLUS HD
Thickness	12.7 mm (1/2 in)
Dimensions	1.2 x 1.2 m (4 x 4 ft) 1.2 x 2.4 m (4 x 8 ft)
Surface	Polymers coated glass fibres
Underface	Polymers coated glass fibres

(All values are nominal)



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## PROPERTIES

SOPRA-ISO PLUS HD meets the requirements of ASTM C 1289, Type II, Class 4, Grade 1 and CAN/ULC S704.1 Type 4, Class 3.

Properties	Standards	SOPRA-ISO PLUS HD
Thermal resistance (RSI (R-value) / 12,7 mm [1/2 in] @ 24 °C [75 °F])	ASTM C 518	0.44 RSI (R – 2.5)
Compressive strength	ASTM D 1621	550 to 759 kPa (80 to 110 psi)
Density	ASTM D 1622	68 kg/m <sup>3</sup> (4.2 lb/pi <sup>3</sup> )
Linear dimensional stability	ASTM D 2126	< 0.5 % linear change
Water absorption	ASTM C 209	< 3 %
Flame spread*	ASTM E 84	40 - 60
Tensile strength	ASTM D 1623	> 35 kPa (> 730 lb/ft <sup>2</sup> )
Mold growth resistance	ASTM D 3273	Pass

\* The results determined in accordance with the ASTM E 84 Standard are not intended to indicate the hazards generated by this material, nor any other, in real fire conditions.  
(All values are nominal)

## STORAGE AND HANDLING

SOPRA-ISO PLUS HD panels are entirely covered with a waterproof coating for protection during handling at the factory and during shipping only.

SOPRA-ISO PLUS HD panels must be stored on a flat support and protected from inclement weather. SOPREMA's temporary packaging must be removed to prevent accumulation of condensation.

However, if short-term outdoor storage is required, SOPRA-ISO PLUS HD panels should be stacked flat on pallets at least 75 mm (3 in) above the ground and covered with a waterproof tarpaulin.

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

For more information, refer to the instructions on the container label and relevant safety data sheet (SDS).

