SOPRA-XPS 35

INSULATION

APPLICATIONS

ROOFS

TECHNICAL DATA SHEET 250612SCANE (supersedes 240325SCANE)

DESCRIPTION

SOPRA-XPS 35 is a rigid thermal insulation board made of extruded polystyrene with shiplap or square edges on its four sides. It is composed of closed cell foam. It is mainly used as a thermal insulation for SOPREMA protected-membrane roofing systems (inverted roofs).

The optimized formula of SOPRA-XPS 35 contains no CFC, no HCFC and no HFC 134a. Moreover, this formula has zero ozone depletion potential and a very low global warming potential of 1.

SOPRA-XPS 35 has low VOC emissions, it has been tested and determined compliant in accordance with *California Department of Public Health (CDPH) V1.2 (January 2017)*.

SOPRA-XPS 35 meets GREENGUARD GOLD certification.

INSTALLATION

LOOSE LAID

Boards are laid flat on the roof. When another layer of SOPRA-XPS 35 insulation is required, it should be installed with staggered joints without being adhered to the first layer. If necessary, use an adhesive compatible with extruded polystyrene to hold the panels together temporarily.

Maximum service temperature: 75 °C (167 °F).

LIMITATIONS

The printed side of SOPRA-XPS 35 insulating boards must be installed directly on the substrate. SOPRA-XPS 35 should not be exposed to UV rays for more than 60 days.

Warning: When the insulation and the drainage panels are laid down and exposed to direct sunlight, the air between them can become very hot. This accumulated heat can damage the insulation panels. The ballast, whether it is made of stones, pavers or a vegetated substrate, helps diffuse the heat. Therefore, it is very important to cover the drainage panels with ballast as they are being installed to prevent heat from damaging the integrity of the insulation panels.

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

sopca-en-ca-tds-sopra-xps-35.indd

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.

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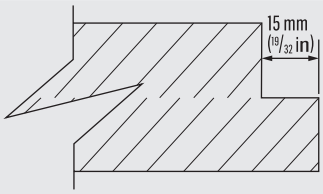
GENERAL INFORMATION

Specifications	SOPRA-XPS 35
Available thicknesses for shiplap boards (1)	38 mm (1.5 in) 51 mm (2 in) 64 mm (2.5 in) 76 mm (3 in) 89 mm (3.5 in) 102 mm (4 in)
Available thicknesses for square boards (1)	25 mm (1 in)
Dimensions of the boards (1)	2438 mm X 610 mm (8 x 2 ft.)
Shiplap dimensions	
Colour	Grey

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

PROPERTIES

SOPRA-XPS 35 meets the requirements of CAN/ULC S701.1 Type 4 (ASTM C578-14 Type IV).

Properties	Standards	SOPRA-XPS 35
Thermal resistance, (1) *25.4 mm (1 in) thickness, at 24 °C (75 °F)*	ASTM C518	RSI- 0.88 (R – 5.0)
Water vapour permeance, *25.4 mm (1 in) thickness*	ASTM E96 *(Procedure A)*	35 ng/Pa•m²•s (0.61 perm)
Flame spread rating	CAN/ULC-S102.2 (2)	> 25 < 500
Dimensional stability	ASTM D2126	Pass
Flexural strength, min.	ASTM C203	640 kPa (93 psi)
Water absorption, % by volume, max.	ASTM D2842	0.7
Water absorption, % by volume, max.	ASTM C272	0.1
Compressive strength, min. (3)	ASTM D1621	241 kPa (35 psi)

(All values are nominal)
(1): The long-term thermal performance (LTTR) of SOPRA-XPS 35 complies with CAN/ULC S701.1 standard requirement: min. RSI-1.66 (R-9.4) for Type 4 products that are 50 mm (2 in) thick. Please consult your SOPREMA representative for more information.
(2): CAN/ULC-S102.2 : Standard Method of Test for Surface Burning Characteristics of Flooring Covering and Miscellaneous Materials and Assemblies.
(3): At 10% deformation or yield.

SYSTÈME QUALITÉ ISO 9001 QUALITY SYSTEM

SYSTÈME ENVIRONNEMENT ISO 14001 ENVIRONMENT SYSTEM

SOPREMA®

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PROPERTIES *(continued)*

SOPRA-XPS 35 meets the requirements of CAN/ULC S701.1 Type 4 (ASTM C578-14 Type IV).

Properties	Standards	SOPRA-XPS 35
Compressive modulus	ASTM D1621	11.5 MPa (1668 psi)
Limiting oxygen index	ASTM D2863	24%
Recycled content	ISO 14020 ISO 14021	Made from pre-consumer and post-consumer recycled content. See the Recycled Content Certificate (RCC) on the product page for more details.

(All values are nominal)

STORAGE AND HANDLING

SOPRA-XPS 35 thermal insulation boards are covered with a temporary waterproof packaging for handling the panels in the manufacturing plant and during transit.

SOPRA-XPS 35 thermal insulation boards must be stored on a flat substrate in their original packaging. If the products are stored outdoors, cover them with an opaque protective cover if the original packaging is removed so that the boards are always protected from UV and sheltered from inclement weather. As they are flammable, they must be protected and kept away from flames and intense heat sources during transportation, handling, storage, and installation.

TESTS, CERTIFICATIONS AND EVALUATIONS

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

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