

SOPRA-XPS 20



INSULATION

APPLICATIONS

WALLS

TECHNICAL DATA SHEET 250610SCANE

(Supersedes 240128SCANE)

DESCRIPTION

SOPRA-XPS 20 is a rigid thermal insulation board made of extruded polystyrene composed of closed cell foam.

It is mainly used as thermal insulation for above grade SOPREMA wall systems and on the inside of foundation walls. It can also be used for residential applications on exterior foundation walls and under concrete slabs.

The optimized formula of SOPRA-XPS 20 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 20 meets GREENGUARD GOLD certification.

Available in three edges treatment :

- Boards with butt edges on four sides
- Boards with shiplap edges on two sides
- Boards with shiplap edges on four sides

INSTALLATION

MECHANICALLY ATTACHED ⁽¹⁾

Install insulation boards using fasteners and 50 mm (2 in) diameter washers.

Install fasteners at 150 mm (6 in) on board perimeter and at 305 mm (12 in) o.c. horizontally and vertically.

When another layer of SOPRA-XPS 20 insulation is required, it should be installed with staggered joints on the first layer.

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

(1): A 100 mm (4 in) SOPRASEAL STICK FLASHPRO or ALL-WEATHER BUTYL FLASHING TAPE self-adhering membrane strip can then be installed centered on panel joints.

RESTRICTIONS

SOPRA-XPS 20 is installed where the applied loads do not exceed 0.14 MPa (20 psi). SOPRA-XPS 20 is a combustible product. To comply with the National Building Code, it must be used in combination with a thermal barrier. SOPRA-XPS 20 should not be exposed to UV rays for more than 60 days.

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



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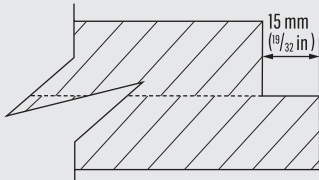
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GENERAL INFORMATION

Specifications	SOPRA-XPS 20	
	Board Dimensions ⁽¹⁾	Board Thicknesses ⁽¹⁾
Shiplap on 2 edges (length)	2438 mm x 1220 mm (8 ft x 4 ft)	25 mm (1 in) 38 mm (1.5 in) 51 mm (2 in) 76 mm (3 in) 100 mm (4 in)
	2743 mm x 1220 mm (9 ft x 4 ft)	25 mm (1 in) 38 mm (1.5 in) 51 mm (2 in)
Shiplap on 4 edges	2438 mm x 610 mm (8 ft x 2 ft)	25 mm (1 in) 38 mm (1.5 in) 51 mm (2 in) 76 mm (3 in)
Butt on 4 edges	2438 mm x 610 mm (8 ft x 2 ft)	25 mm (1 in) 38 mm (1.5 in) 51 mm (2 in) 76 mm (3 in)
Shiplap dimension		
Colour	Grey	

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

PROPERTIES

SOPRA-XPS 20 meets the requirements of CAN/ULC S701.1 Type 3 (ASTM C578-14 Type IV).

Properties	Standards	SOPRA-XPS 20
Long term thermal resistance (LTTR) ⁽¹⁾ , 25.4 mm (1 in) 38.1 mm (1.5 in) 50.8 mm (2 in) 76.2 mm (3 in) 101.6 mm (4 in)	CAN/ULC-S770-15	0.95 RSI (R-5.39) 1.43 RSI (R-8.12) 1.93 RSI (R-10.96) 2.93 RSI (R-16.64) 3.96 RSI (R-22.49)
Water Vapour Permeance, 25 mm (1 in) thickness	ASTM E96 (Procedure A)	38 ng/Pa·s·m ² (0.66 perm)

(All values are nominal)

(1): The aged thermal resistance after 90 days of SOPRA-XPS 20 as per ASTM C518 is RSI-0.88 (R-5.0) for products that are 25 mm (1 in) thick.



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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.

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PROPERTIES (continued)

Properties	Standards	SOPRA-XPS 20
Flame spread rating	CAN/ULC-S102.2 ⁽²⁾	> 25 < 500
Dimensional Stability, max.	ASTM D2126	1.5 %
Min. Flexural Strength	ASTM C203	500 kPa (73 psi)
Water Absorption, % by volume, max.	ASTM D2842	0.7
Water Absorption, % by volume, max.	ASTM C272	0.1
Min. Compressive Strength ⁽³⁾	ASTM D1621	140 kPa (20 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)

For CCMC product evaluation see CCMC Evaluation listing 14372-L.

(2): CAN/ULC S102.2 : Standard Method of Test for Surface Burning Characteristics of Flooring, Floor Covering, and Miscellaneous Materials and Assemblies.

(3): At 10% deformation or yield.

STORAGE AND HANDLING

SOPRA-XPS 20 thermal insulation boards are covered with a temporary waterproof packaging for handling the panels in the manufacturing plant and during transit. SOPRA-XPS 20 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 CONTAINER LABEL AND RELEVANT SAFETY DATA SHEET (SDS).



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