SOPRA-XPS 20

INSULATION

APPLICATIONS

WALLS

TECHNICAL DATA SHEET 240128SCANE (Supersedes 231218SCANE)

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 four edges treatment :

- Boards with butt edges on four sides
- Boards with shiplap edges on two sides
- Boards with shiplap edges on four sides
- Boards with grooves on the two longest sides; these create the space needed to insert 19 x 64 mm (1 x 3 in) wood furring when two boards are installed next to one another. This option is used for above-grade exterior walls and on the inside of foundation walls.

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, SOPRASEAL STICK FLASHPRO HT 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 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.

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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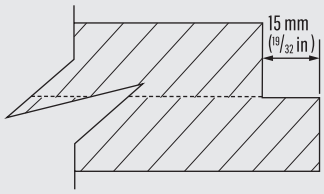
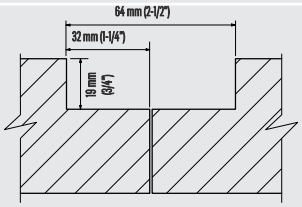
GENERAL INFORMATION

Specifications	SOPRA-XPS 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)
Slotted on 2 edges (length)	2438 mm x 610 mm (8 ft x 2 ft)	38 mm (1.5 in) 51 mm (2 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		
Slotted dimensions		
Colour	Grey	

(All values are nominal)
(1): Other thicknesses and dimensions available upon request.

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SOPREMA®

GREENGUARD GOLD

SYSTÈME QUALITÉ ISO 9001 QUALITY SYSTEM

SYSTÈME ENVIRONNEMENT ISO 14001 ENVIRONMENT SYSTEM

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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•m² (0.66 perm)
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		ASTM D1621	140 kPa (20 psi)
Limiting Oxygen Index		ASTM D2863	24 %
Global recycled content (3)		-	76 %

(All values are nominal)
For CCMC product evaluation see CCMC Evaluation listing 14372-L.

(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.
(2): CAN/ULC S102.2 : Standard Method of Test for Surface Burning Characteristics of Flooring, Floor Covering, and Miscellaneous Materials and Assemblies.
(3): The recycled content varies according to the compression range. The global recycled content is made of one part post- and pre-consumer content validated by CT Consultant, and another part which accounts for the manufacturing process recovery value. The specific details of the products covered by this validation can be found on the Recycled Content Certificate available on our website.

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.

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