



INSULATION

APPLICATIONS

WALLS

SOPRA-XPS 25 CW

TECHNICAL DATA SHEET 231215SCANE

(Supersedes 211111SCANE)

DESCRIPTION

SOPRA-XPS 25 CW is a rigid thermal insulation board made of extruded polystyrene composed of closed cell foam. It is mainly used as a thermal insulation for above grade SOPREMA wall systems.

Insulation boards are scored squared every 400 mm (16 in) and 600 mm (24 in) so they can easily be cut when they need to fit perfectly between wall ties. SOPRA-XPS 25 CW insulation boards are available with square edges on four sides.

The optimized formula of SOPRA-XPS 25 CW 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 25 CW meets GREENGUARD GOLD certification.

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 25 CW 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 25 CW is install where the applied loads do not exceed 20 psi. SOPRA-XPS 25 CW is a flammable product. To comply with the National Building Code, it must be used in combination with a thermal barrier. SOPRA-XPS 25 CW should not be exposed to UV rays for more than 60 days.

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

GENERAL INFORMATION

| Specifications | SOPRA-XPS 25 CW |
|----------------------------------|---|
| Board thicknesses ⁽¹⁾ | 40 mm (1.6 in) 50 mm (2 in) 61 mm (2.4 in) 75 mm (3 in) 100 mm (3.9 in) |
| Board dimensions ⁽¹⁾ | 2400 mm x 1200 mm (7.9 ft x 3.9 ft) |
| Colour | Grey |

(All values are nominal)

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



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PROPERTIES

SOPRA-XPS 25 CW meets the requirements of CAN/ULC S701.1 Type 3 (ASTM C578-14 Type IV).

| Properties | Standards | SOPRA-XPS 25 CW |
|--|-------------------------------|---------------------------------------|
| 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·s·m ² (0.61 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 | 172 kPa (25 psi) |
| Limiting Oxygen Index | ASTM D2863 | 24 % |
| Global recycled content ⁽³⁾ | - | 77 % |

(All values are nominal)

(1): The long-term thermal performance (LTTR) of SOPRA-XPS 25 CW complies with CAN/ULC S701.1 standard requirement: min. RSI-1.62 (R-9.2) for Type 3 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, 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 25 CW thermal insulation boards are covered with a temporary waterproof packaging for handling the panels in the manufacturing plant and during transit.

SOPRA-XPS 25 CW 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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