

# SOPRA-XPS 35



**BRANZ Appraised**  
Appraisal No.1169 [2021]

## Description:

SOPRA-XPS 35 is a rigid thermal insulation board made of extruded polystyrene composed of closed cell foam. SOPRA-XPS 35 is available with shiplap edges on all four sides in several thicknesses and square edges in the thickness of 25 mm.

It is mainly used as thermal insulation for Soprema protected-membrane roofing systems (inverted roofs).

SOPRA-XPS 35 does not have any CFC and HCFC - Zero ozone depletion potential. Over 25% post-consumer and Post industrial recycled content.

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.

## Technical Data:

Properties	Standards	SOPRA-XPS 35
Thermal Resistance <sup>1</sup> (RSI-Value [R Value] / 25.4mm @ 24°C)	ASTM C518	RSI- 0.88 (R - 5.0)
Water Vapour Permeance	ASTM E96	52 ng/Pa·m <sup>2</sup> ·s (0.9 perm)
Flame spread rating	CAN/ULC-S102.2 <sup>2</sup>	> 25 < 500
Dimensional Stability	ASTM D2126	Pass
Min. Flexural Strength	ASTM C203	640 kPa (93 psi)
Water Absorption, % by volume, max.	ASTM D2842	0.7
Min. Compressive Strength <sup>3</sup>	ASTM D1621	250 kPa
Limiting Oxygen Index	ASTM D2863	24%

For CCMC product evaluation see CCMC Evaluation listing 14149-L (All values are nominal)

- The long-term thermal performance (LTTR) of SOPRA-XPS35 complied with CAN/ULC S701.1 standard requirement: min. RSI-1.66 (R-9.4) for Type 4 products that are 50 mm thick. Please consult your Equus Consultant for more information.
- CAN/ULC-S102.2: Standard Method of Test for Surface Burning Characteristics of Flooring Covering and Miscellaneous Materials and Assemblies.
- At 5% deformation or yield.

## 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.

**For complete information on product installation, please consult your Equus Consultant.**

**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.

## Storage & 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.

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February 2022