

# SOPRA-XPS 40 & 40 PL

TECHNICAL DATA SHEET 230522SCANE

(Supersedes 211111SCANE)



INSULATION

APPLICATIONS

FOUNDATIONS

ROOFS

PARKING DECKS

PLAZA DECKS

## DESCRIPTION

SOPRA-XPS 40 are rigid thermal insulation boards made of high-density extruded polystyrene with square edges on their four sides. They are composed of closed cell foam.

SOPRA-XPS 40 are designed for applications requiring high-density insulation on which heavy loads will be applied. They are mainly used for SOPREMA foundation systems under slabs, civil engineering applications, protected-membrane roofing systems (inverted), parking decks and plaza decks.

SOPRA-XPS 40 PL are rigid thermal insulation boards made of high-density extruded polystyrene specifically designed for SOPREMA plaza deck system applications. They are available with channels on the lower long sides to facilitate water drainage.

The optimized formula of SOPRA-XPS 40 & 40 PL 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 40 & 40 PL meets GREENGUARD GOLD certification.

## INSTALLATION

### LOOSE LAID

The SOPRA-XPS 40 & 40 PL insulation boards are laid flat on the roof, parking decks, plaza decks and on the ground for applications under concrete slabs. When another layer of SOPRA-XPS 40 & 40 PL insulation is required, it should be installed with staggered joints without being adhered to the first layer. If necessary, use with SOPRASEAL LM 200 T adhesive or an adhesive compatible with extruded polystyrene to hold the boards together temporarily.

### ADHERED WITH ADHESIVE

Adhere with SOPRASEAL LM 200 T adhesive or an adhesive compatible with extruded polystyrene.

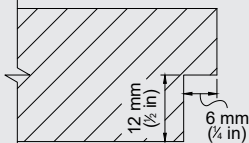
**Maximum service temperature:** 75 °C (167 °F).

## RESTRICTION

SOPRA-XPS 40 & 40 PL should not be exposed to uv rays for more than 60 days.

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

## PACKAGING

Specifications	SOPRA-XPS 40	SOPRA-XPS 40 PL
Colour	Grey	
Board dimensions <sup>(1)</sup>	2438 mm x 610 mm (8 x 2 ft)	
Available thicknesses <sup>(1)</sup>	25 mm (1 in) 38 mm (1.5 in) 51 mm (2 in) 63 mm (2.5 in) 76 mm (3 in) 87 mm (3.5 in) 102 mm (4 in)	51 mm (2 in) 76 mm (3 in)
		<b>Channel dimensions</b> 

(All values are nominal)

(1) Other thicknesses and dimensions available upon request.



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TDS-SOPRA-XPS-40-&-40-PL-Soprema-en.indd

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## PROPERTIES

SOPRA-XPS 40 & 40 PL meet the requirements of ASTM C578-14 Type VI as well as the requirements of CAN/ULC S701.1 Type 4.

Properties	Standards	SOPRA-XPS 40 & 40 PL
Thermal Resistance <sup>(1)</sup> (RSI-Value [R Value] / 25.4 mm [1 in] @ 24 °C [75 °F])	ASTM C518	RSI- 0.88 (R – 5,0)
Water Vapour Permeance	ASTM E96 (Method A)	52 ng/Pa•s•m <sup>2</sup> (0.9 perm)
Flame spread rating	CAN/ULC-S102.2 <sup>(2)</sup>	> 25 < 500
Dimensional Stability, max.	ASTM D2126	1.5 %
Min. Flexural Strength	ASTM C203	800 kPa (116 psi)
Water Absorption, % by volume, max.	ASTM D2842	0.6
Water Absorption, % by volume, max.	ASTM C272	0.1
Min. Compressive Strength <sup>(3)</sup>	ASTM D1621	275 kPa (40 psi)
Limiting Oxygen Index	ASTM D2863	24 %
Compressive modulus	ASTM D1621	13.8 MPa
Coefficient of Linear Thermal Expansion	ASTM D696	6.0 x 10 <sup>-2</sup> mm/m•°C
Global recycled content <sup>(4)</sup>	-	75 %

For CCMC product evaluation see CCMC Evaluation listing 14149-L

(All values are nominal)

- (1) The long-term thermal performance (LTTR) of SOPRA-XPS 40 & 40 PL 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, Floor Covering, and Miscellaneous Materials and Assemblies.
- (3) At 5 % deformation or yield.
- (4) 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 40 & 40 PL thermal insulation boards are covered with a temporary waterproof packaging for handling the panels in the manufacturing plant and during transit.

SOPRA-XPS 40 & 40 PL 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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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.