

# SOPRA-XPS 40 / 60 / 100

PRODUCT DATA SHEET PD10438 - REV.220628



APPLICATIONS

ROOFING

## DESCRIPTION:

**SOPRA-XPS 40, 60, & 100** are rigid thermal insulation board made of extruded polystyrene close cell foam with shiplap or square edges on its four sides. The optimized formula of **SOPRA-XPS 40, 60, & 100** contain no CFC, no HCFC and no HFC 134a. This proprietary formula has zero ozone depletion potential and an extremely low Global Warming Potential (GWP) of 1. **SOPRA-XPS 40, 60, & 100** meets GREENGUARD GOLD certification.

## BASIC USES:

**SOPRA-XPS 40, 60, & 100** 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.

## FEATURES & BENEFITS:

- Stable LTTR (Long Term Thermal Resistance) of 5/inch, even at low temperatures
- Outstanding resistance to moisture
- Eco friendly formula utilizing up to 70% recycled content
- Mold and bacteria resistant

## CONFIGURATION:

**SOPRA-XPS 40, 60, & 100** is available as a board with squared edges on four sides.

## COLOR:

**SOPRA-XPS 40, 60, & 100** is grey in color with blue print on the face of the board.

## PACKAGING:

SPECIFICATIONS	SOPRA-XPS 40 & 60	SOPRA-XPS 100
Available thicknesses*, in (mm)	1 (25) 1.5 (38) 2 (51) 2.5 (63) 3 (76) 4 (100)	2 (51) 3 (76)
Available board dimensions*, ft (mm)	8 x 2 (2,438 x 610)	

*\*Other thicknesses and dimensions available upon request.  
(All values are nominal)*

## INSTALLATION:

### LOOSE LAID

- Insulation boards are laid flat on the ground for applications under concrete slab.
- When installing multiple layers of SOPRA-XPS 40, 60, & 100, all joint should be staggered between layers.

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## LIMITATION:

- Maximum service temperature: 167°F (75°C)
- **SOPRA-XPS 40, 60, & 100** is installed where the applied loads do not exceed 40, 60 or 100 psi
- **SOPRA-XPS 40, 60, & 100** is a combustible product
- **SOPRA-XPS 40, 60, & 100** can not be used in a wall assembly with a combustible veneer
- **SOPRA-XPS 40, 60, & 100** should not be exposed to UV rays for more than 60 days
- FOR COMPLETE INFORMATION ON PRODUCT INSTALLATION, PLEASE CONSULT YOUR SOPREMA REPRESENTATIVE.

## SHELF LIFE & STORAGE:

**SOPRA-XPS 40, 60, & 100** thermal insulation boards are covered with a temporary waterproof packaging for handling the panels in the manufacturing plant and during transit.

**SOPRA-XPS 40, 60, & 100** 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.

## APPROVALS:

**SOPRA-XPS 40, 60, & 100** meets GREENGUARD GOLD certification.



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## PROPERTIES:

SOPRA-XPS 40, 60, & 100 meets the requirements of ASTM C578-14 Type VI.  
 SOPRA-XPS 40, 60, & 100 meets the requirements of ASTM C578-14 Type VII.  
 SOPRA-XPS 40, 60, & 100 meets the requirements of ASTM C578-14 Type V.  
 SOPRA-XPS 40, 60, & 100 meets the requirements of CAN/ULC S701.1 Type 4.

PROPERTIES	STANDARDS	SOPRA-XPS 40	SOPRA-XPS 60	SOPRA-XPS 100
<b>Thermal Resistance<sup>1</sup>,</b> (R Value [RSI-Value] / 1 in [25.4 mm] @ 75°F [24°C])	ASTM C518		R – 5.0 (RSI- 0.88)	
<b>Water Vapor Permeance,</b> perm (Ng/Pa•s•m <sup>2</sup> )	ASTM E96 (Method A)		0.9 (52)	
<b>Flame Spread, Smoke Developed</b>	UL 723*/ASTM E84		20** 15**	
<b>Dimensional Stability,</b> max %	ASTM D2126		1.5	
<b>Flexural Strength,</b> min psi (kPa)	ASTM C203	116 (800)	145 (1,000)	160 (1,100)
<b>Water Absorption by Volume,</b> max %	ASTM C272		0.1	
<b>Compressive Strength,</b> min psi (kPa)	ASTM D1621	40 (275)	60 (415)	100 (690)
<b>Limiting Oxygen Index,</b> %	ASTM D2863		24	
<b>Compressive Modulus</b>	ASTM D1621	10.5 MPa	17.5 MPa	37.6 MPa
<b>Coefficient of Linear Thermal Expansion</b>	ASTM D696	6.0 x 10 <sup>-2</sup> mm/m•°C	-	-
<b>Global Recycled Content,</b> % <sup>2</sup>	-	69	57	67

\*UL 723 and ASTM E84 both utilize the Steiner Tunnel test and update their standards concurrently so they are the same test method.

\*\* Flame spread and smoke developed were recorded while the material remained in the original test position, ignition of the molten residue on the furnace floor resulted in flame travel equivalent to calculated flame spread classification of 130-155 and smoke developed classification of over 500.

<sup>1</sup> The long-term thermal performance (LTTR) of SOPRA-XPS 40, 60 & 100 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.

<sup>2</sup> 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.