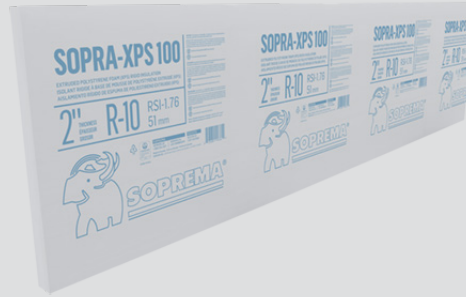


SOPRA-XPS 100

Semi-Rigid Thermal Insulation Board



APPLICATIONS

ROOFING

WATERPROOFING

CIVIL

PRODUCT DATA SHEET PDS10440 - REV 231002

PRODUCT NUMBERS:

For ordering information contact customer service.

DESCRIPTION & FEATURES:

SOPRA-XPS 100 are rigid thermal insulation boards made of extruded polystyrene closed-cell foam. It is mainly used for SOPREMA foundation systems under slabs, civil engineering applications, protected-membrane roofing systems (inverted), parking decks and plaza decks.

- Superior initial and long-term thermal performance (R-5/inch)
- Outstanding resistance to moisture
- Mold and bacteria resistant
- Lightweight and easy to handle, can be cut with a utility knife or saw
- Eco-friendly formula utilizing up to 70% recycled content
- Meets GREENGUARD GOLD certification

CONFIGURATION:

SOPRA-XPS 100 is available in the following edge treatments:

- Squared edges on four sides
- Shiplap edges on four sides
- Slotted channels on two sides

APPLICATION:



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

Refer to SOPREMA's published technical literature for additional details and application requirements.

STORAGE:

Store boards flat on a pallet to prevent damage. Store in a clean, dry location and cover as necessary to protect from environmental damage such as extreme cold, heat or moisture. **SOPRA-XPS 100** thermal insulation boards are covered with a temporary waterproof packaging for handling the panels in the manufacturing plant and during transit. If the original packaging is removed cover them with an opaque protective covering so that the boards are always protected from UV and from inclement weather.

LIMITATIONS:

SOPRA-XPS 100 insulation is a non-structural material and must be installed to meet required construction and service-load conditions.

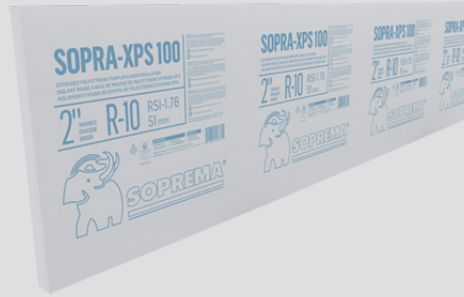
This product will burn if exposed to an ignition source of sufficient heat and intensity.

SOPRA-XPS 100 should not be exposed to UV rays for more than 60 days.



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TECHNICAL INFORMATION & TESTING:

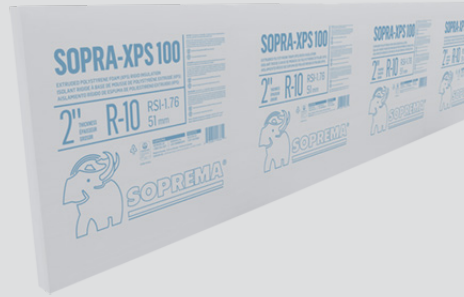
SHEET PROPERTIES	
PROPERTY	VALUE
Material	Extruded polystyrene closed-cell foam
ASTM	C578-14 Type VI
Color	Grey

DIMENSION & MASS*			
PROPERTY	VALUE		
Length, ft (m)	8 (2.4)		
Width, ft (m)	2 (0.6)		
Edge Treatment	Square	Shiplap	Slotted channel
Available thicknesses, in (mm)	2 (51) 2.5 (63) 3 (76)	3 (76)	3 (76)
Shiplap dimensions			

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

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TECHNICAL INFORMATION & TESTING:

PHYSICAL PROPERTIES		
PROPERTY	VALUE	ASTM
Thermal resistance,¹ R Value [RSI-Value] / 1 in [25.4 mm] @ 75°F [24°C]	R – 5.0 (RSI - 0.88)	C518
Compressive strength, min psi (kPa)	100 (690)	D1621
Dimensional stability, max %	1.5	D2126
Flexural strength, min psi (kPa)	160 (1,100)	C203
Compressive modulus, MPa	37.6	D1621
Water Absorption by volume, max %	0.1	C272
Water vapor permeance, perm (Ng/Pa•s•m ²)	0.9 (52)	E96 (Method A)
Flame spread, smoke developed	20** 15**	UL 723*/E84
Limiting oxygen index, %	24	D2863
Global recycled content,² %	68	-

* 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.

¹ 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.

² 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.

TESTING & APPROVALS:



WARRANTY:

For more information refer to www.SOPREMA.us or contact your SOPREMA representative.

SUSTAINABILITY:



RECYCLED CONTENT	OZONE DEPLETION POTENTIAL (ODP)	ENVIRONMENTAL PRODUCT DATA (EPD)*	HEALTH PRODUCT DECLARATION (HPD)*
68%	0	Yes	Yes

* EPD and HPD sheets are available at soprema.us

