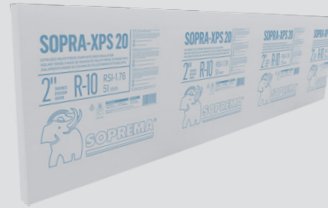


# SOPRA-XPS 20

Semi-Rigid Thermal Insulation Board



APPLICATIONS

WALLS

PRODUCT DATA SHEET PDS10434 - REV 231024

## PRODUCT NUMBERS:

*For ordering information contact customer service.*

## DESCRIPTION & FEATURES:

**SOPRA-XPS 20** are rigid thermal insulation boards made of extruded polystyrene closed-cell foam. **SOPRA-XPS 20** is mainly used as thermal insulation for above grade SOPREMA wall systems and on the inside of foundation walls. It can also be used for residential applications on exterior foundation walls and under concrete slabs.

- 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 20** is available in the following edge treatments:

- Squared edges on four sides
- Shiplap edges on two sides
- Shiplap edges on four sides
- Slotted on two sides\*

\* When panels are installed side by side, the necessary space is created for a 1 x 3 in (19 x 64 mm) wood furring strip. This option is used for above-grade exterior walls and on the inside of foundation walls

## APPLICATION:



MECHANICALLY  
FASTENED

Place **SOPRA-XPS 20** in desired position. Butt edges and stagger joints of adjacent boards. Secure boards to substrate using mechanical fasteners.

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 20** 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 20** insulation is a non-structural material and must be installed to meet required construction and service-load conditions.

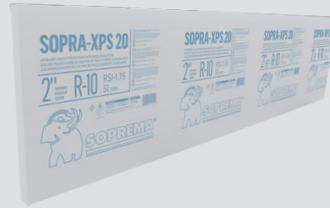
This product will burn if exposed to an ignition source of sufficient heat and intensity.

**SOPRA-XPS 20** should not be exposed to UV rays for more than 60 days.



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## TECHNICAL INFORMATION & TESTING:

SHEET PROPERTIES	
PROPERTY	VALUE
<b>Material</b>	Extruded polystyrene closed-cell foam
<b>ASTM</b>	C578-14 Type X
<b>Color</b>	Grey

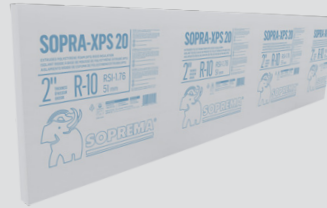
DIMENSION & MASS*							
PROPERTY	VALUE						
<b>Length, ft (m)</b>	8 (2.4)						9 (2.4)
<b>Width, ft (m)</b>	2 (0.6)			4 (1.2)			
<b>Edge treatment</b>	Square	Shiplap/4 sides	Slotted	Square	Shiplap/2 sides	Shiplap/4 sides	Shiplap
<b>Available thicknesses, in (mm)</b>	0.75 (19.1) 1.0 (38) 1.5 (38) 2.0 (51) 3.0 (76)	1.0 (38) 1.5 (38) 2.0 (51) 2.4 (61) 3.0 (76) 4.0 (102)	2.0 (51)	2.0 (51) 2.5 (64) 3.0 (76)	1.0 (38) 1.5 (38) 2.0 (51) 3.0 (76)	1.0 (38) 1.5 (38) 2.0 (51)	1.0 (38) 1.5 (38) 2.0 (51)
<b>Shiplap dimensions</b>							
<b>Slotted dimensions</b>							

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



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## TECHNICAL INFORMATION & TESTING:

PHYSICAL PROPERTIES		
PROPERTY	VALUE	ASTM
<b>Thermal resistance,<sup>1</sup></b> R Value [RSI-Value] / 1 in [25.4 mm] @ 75°F [24°C]	R – 5.0 (RSI - 0.88)	C518
<b>Compressive strength,</b> min psi (kPa)	20 (140)	D1621
<b>Dimensional stability,</b> max %	1.5	D2126
<b>Flexural strength,</b> min psi (kPa)	73 (500)	C203
<b>Water absorption by volume,</b> max %	0.1	C272
<b>Water vapor permeance,</b> perm (Ng/Pa•s•m <sup>2</sup> )	1.0 (57)	E96 (Method A)
<b>Flame spread,</b> smoke developed	20** 15**	UL 723*/E84
<b>Limiting oxygen index,</b> %	24	D2863
<b>Global recycled content,<sup>2</sup> %</b>	69	-

\* 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 20 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.

## TESTING & APPROVALS:



## WARRANTY:

For more information refer to [www.SOPREMA.us](http://www.SOPREMA.us) or contact your SOPREMA representative.

## SUSTAINABILITY:



RECYCLED CONTENT	OZONE DEPLETION POTENTIAL (ODP)	ENVIRONMENTAL PRODUCT DATA (EPD)*	HEALTH PRODUCT DECLARATION (HPD)*
69%	0	Yes	Yes

\* EPD and HPD sheets are available at [soprema.us](http://soprema.us)

