

SOPRA-XPS 20

Rigid Thermal Insulation Board in Wall Applications

PRODUCT DATA SHEET PD10434 - REV.220628



APPLICATIONS

WALLS

QUICK FACTS & PACKAGING:

| | SOPRA-XPS 20 SQUARE EDGE | SOPRA-XPS 20 SHIPLAP EDGE - 4 EDGES | SOPRA-XPS 20 SHIPLAP EDGE - 2 EDGES | SOPRA-XPS 20 SLOTTED EDGE |
|------------|--|--|--|----------------------------------|
| BOARD SIZE | 8 ft x 2 ft (2.4 m x 0.6 m) | 8 ft x 2 ft (2.4 m x 0.6 m) | 8 ft x 4 ft (2.4 m x 1.2 m) 9 ft x 4 ft (2.8 m x 1.2 m)* | 8 ft x 2 ft (2.4 m x 0.6 m) |
| THICKNESS | 1.0 in (25 mm) 1.5 in (38 mm) 2.0 in (51 mm) 3.0 in (76 mm) | 1.0 in (25 mm) 1.5 in (38 mm) 2.0 in (51 mm) 3.0 in (76 mm) | 1.0 in (25 mm)* 1.5 in (38 mm)* 2.0 in (51 mm)* 3.0 in (76 mm) 4.0 in (100 mm) | 1.5 in (38 mm) 2.0 in (51 mm) |
| MATERIAL | Extruded Polystyrene | | | |
| USES | Thermal Insulation | | | |

DESCRIPTION:

SOPRA-XPS 20 is a rigid thermal insulation board made of extruded polystyrene composed of closed cell foam. The optimized formula of **SOPRA-XPS 20** contains 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 20 meets GREENGUARD GOLD certification.

BASIC USES:

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.

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

COLOR:

- Grey in color with blue print on the face of the board.

CONFIGURATION:

SOPRA-XPS 20 is available in four edge treatments :

- Boards with squared edges on four sides
- Boards with shiplap edges on two sides
- Boards with shiplap edges on four sides
- Boards 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 of. This option is used for above-grade exterior walls and on the inside of foundation walls.*

INSTALLATION:

MECHANICALLY ATTACHED

- Install insulation boards using fasteners and 2 in (50 mm) diameter plates
- Install fasteners at 6 in (150 mm) on board perimeter and at 12 in (305 mm) o.c. horizontally and vertically
- When installing multiple layers of SOPRA-XPS, all joint should be staggered between layers

APPROVALS:

SOPRA-XPS 20 meets GREENGUARD GOLD certification.



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LIMITATION:

- Maximum service temperature: 167°F (75°C)
- **SOPRA-XPS 20** is installed where the applied loads do not exceed 20 psi
- **SOPRA-XPS 20** is a combustible product
- **SOPRA-XPS 20** can not be used in a wall assembly with a combustible veneer
- **SOPRA-XPS 20** 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 20 thermal insulation boards are covered with a temporary waterproof packaging for handling the panels in the manufacturing plant and during transit. **SOPRA-XPS 20** 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.

PROPERTIES:

SOPRA-XPS 20 meets the requirements of ASTM C578-14 Type X (CAN/ULC S701.1 Type 3). Properties Standards SOPRA-XPS

| PHYSICAL PROPERTIES | | |
|---|------------------------|---------------------|
| PROPERTY | STANDARDS | SOPRA-XPS 20 |
| Thermal Resistance¹ , (R Value [RSI-Value] / 1 in [25.4 mm] @ 75°F [24°C]) | ASTM C518 | R – 5.0 (RSI- 0.88) |
| Water Vapour Permeance , perm (Ng/Pa•s•m ²) | ASTM E96 (Method A) | 1.0 (57) |
| Flame Spread, Smoke Developed | UL 723*/ASTM E84 | 203** 153** |
| Dimensional Stability , max % | ASTM D2126 | 1.5 |
| Flexural Strength , min psi (kPa) | ASTM C203 | 73 (500) |
| Water Absorption by Volume , max % | ASTM DC272 | 0.1 |
| Compressive Strength , min psi (kPa) | ASTM D1621 | 20 (140) |
| Limiting Oxygen Index , % | ASTM D2863 | 24 |
| Global Recycled Content , % ² | - | 69 |

NOTE: Table is continued on the next page.

*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.



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PROPERTIES (CONTINUED):

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| PHYSICAL PROPERTIES | |
|---------------------|--------------|
| PROPERTY | SOPRA-XPS 20 |
| Shiplap Dimensions | |
| Slotted Dimensions | |