



## PRODUCT DATA SHEET

### DESCRIPTION

SOPRA-XPS ME are rigid thermal insulation boards made of high-density extruded polystyrene with square edges on their four sides. It is composed of closed cell foam. SOPRA-XPS are designed for applications requiring high-density insulation on which heavy loads will be applied. They are mainly used for SOPREMA systems, civil engineering applications, protected-membrane roofing systems (inverted), parking decks and plaza decks.

### STORAGE & HANDLING

SOPRA-XPS ME should be stored away from the source of ignition. Wear necessary Personal Protective Equipment. Partly used material should be placed in a sealed container and stored in a well-ventilated area.

### USER APPLICATION

SOPRA-XPS ME is used in various applications for substructure and superstructure. All the application guidelines are described in SOPREMA's Technical Manuals in force.

#### ADVANTAGES

- High Physical & Mechanical Properties
- Variety Thicknesses
- Environmental Friendly
- "B1" Class Reaction to Fire
- Accomodates Temperature Fluctuation Expansion
- Maximum level of Indoor Comfort

### HEALTH, SAFETY & ENVIRONMENT

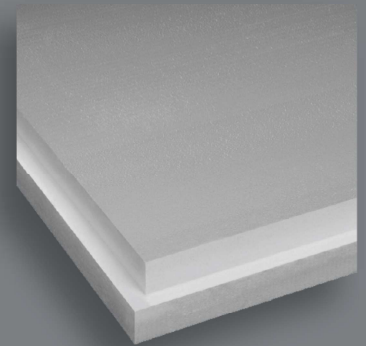
The product does not contain any substance likely to be detrimental to health or to the environment and complies with generally admitted Health & Safety Requirements. For further information please refer to relevant Material Safety Data Sheet (MSDS).

### TRACEABILITY

Product traceability is ensured through a manufacturing identification present on the packaging.

### QUALITY MANAGEMENT

SOPREMA always recognises as a high level of importance the quality of the products, the environment and safety. For this reason, we operate independently monitored Quality Management Systems in line with ISO 9001:2015.



# SOPRA-XPS ME

## COMPOSITION & PACKAGING

PROPERTY	SOPRA-XPS ME 25 3235	SOPRA-XPS ME 50 3235	SOPRA-XPS ME 75 3235	SOPRA-XPS ME 100 3235
Thickness	25 mm	50 mm	75 mm	100 mm
Length	1250 mm	1250 mm	1250 mm	1250 mm
Width	600 mm	600 mm	600 mm	600 mm
m <sup>2</sup> / Pack	12	6	3.75	3
Boards / Pack	16	8	5	4
Weight gross / m <sup>2</sup>	0.473	0.910	1.374	1.819
Weight gross / Pack	5.670	5.457	5.151	5.457
Density Kg / m <sup>3</sup>	32 - 35	32 - 35	32 - 35	32 - 35

## THERMAL CONDUCTIVITY

PROPERTY	SOPRA-XPS ME 25 3235	SOPRA-XPS ME 50 3235	SOPRA-XPS ME 75 3235	SOPRA-XPS ME 100 3235
Thermal conductivity (K) (w.M) / K	0.0303	0.0303	0.0303	0.0303
Thermal resistance (R) (m <sup>2</sup> .k) / W	0.825	1.650	2.475	2.970
U value (U) w / (m <sup>2</sup> .k)	1.212	0.606	0.404	0.337
BS standard U value Btu / .ft <sup>2</sup> .° f	0.213	0.107	0.071	0.059

## TECHNICAL PROPERTIES

PROPERTY	STANDARDS	UNITS	TYPE II
Density	ASTM D-1622	kg / m <sup>3</sup>	32 - 35
	DIN 53420	lbs / ft <sup>3</sup>	2.0 - 2.3
Thermal Conductivity max @ 35 °C & 60 % of RH	ASTM C 158 - 2010	W / m.K	32 - 35
	DIN 2612 / 52616	Btu.in / ft <sup>2</sup> .hr.°F	2.0 - 2.3
Thermal Resistance of 25.4 mm Thickness @ mean temp of 24 ± 1 °C min	ASTM C 158 - 2010	(m <sup>2</sup> .k) / W	32 - 35
	DIN 2612 / 52616		
Compressive strength @ Yield or 10% Deformation, min kPa	ASTM D 1621 : 00	kPa	32 - 35
	DIN 53421	psi	2.0 - 2.3
Flexural strength min kPa	ASTM C 203 - 05a	kPa	414
		psi	60
Water vapour permeance of 25.4 mm Thick max	ASTM E 96 : 00	perm / in	1.1
Water absorption by total immersion, max	ASTM C 272 : 2001	% by Vol	0.3
	DIN 53428		
Dimensional stability change in dimension, max %	ASTM D 2126 : 09	% change	2
Oxygen index min volume %	ASTM C 2863 : 09	%	24
Capillarity		None	None
Fire classifications	DIN 4102 : 1	Building	B1 & B2
		Material class	

Note: All products manufactured by SOPREMA comply with the description and properties indicated in the technical data sheet that was current at the date of manufacture.  
Data is represented by average values, unless noted otherwise.  
All values are nominal, level ± 20 %

## TESTING AND CERTIFICATIONS



## SUSTAINABILITY AND ENVIRONMENT



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