

TECHNICAL DATASHEET



CELOTEX XPS 500 SL FS

Description

CELOTEX XPS 500 SL FS is a rigid thermal insulation board made of extruded polystyrene (XPS) foam produced according to climate-friendly CO₂ technology.

CELOTEX XPS 500 SL FS is mainly used as thermal insulation including floors and car parks where a high compressive strength is required.

Packing & Storage

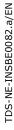
Thickness (mm)	Boards/ pack	m²/pack	Boards/pallet	m²/pallet	Thermal resistance (R _D) (m ² .K/W) (2)
		12	250 x 600 mm ⁽¹⁾		
40	10	7,5	120	90,0	1,25
50	8	6,0	96	72,0	1,55
60	7	5,3	84	63,0	1,85
80	5	3,8	60	45,0	2,40
100	4	3,0	48	36,0	2,90
120	3	2,3	42	31,5	3,40
140	3	2,3	36	27,0	4,10
160	2	1,5	32	24,0	4,70
180	2	1,5	28	21,0	5,25
200	2	1,5	24	18,0	5,85
220	2	1,5	20	15,0	6,45
240	2	1,5	20	15,0	7,05
260	1	0,8	18	13,5	7,60
280	1	0,8	16	12,0	8,20

In addition to the default pallet, there is also a "jumbo" pack, composed of 2x2 pallets.

Store the insulation boards on a flat surface, keep dry, protected from sunlight and temperatures above 75 °C.

Characteristics

Thermal conductivity - λ_{D} (W/(m.K)) (EN 12667)	40 ≤ d < 80 mm d = 80 mm	0,032 ⁽³⁾ 0,033 ⁽³⁾
	u = 80 mm 80 < d ≤ 100 mm	0,033 (3)
	100 < d ≤ 120 mm	0,035 (3)
	120 < d ≤ 120 mm	0,033 ⁽³⁾
Length (mm) (EN 822)		1250 ± 8
Width (mm) (EN 822)		600 ± 8
Thickness tolerance - d _N (EN 823)		T1
Density (kg/m³)		35-40
Edge profile		rebate
Surface		smooth
Compressive strength at 10 % deformation (kPa) (EN	CS(10\Y)500	
Dimensional stability (≤ 5 %) (EN 1604)	DS(70,90)	
Long term water absorption by total immersion (%) (E	WL(T)0,7	
Reaction to fire (EN 13501-1)	F	
Water vapour diffusion resistance - μ (EN 12086)	150	
Tensile strength perpendicular to faces (kPa) (EN 1607	') 40 ≤ d < 100 mm	NPD
	100 ≤ d ≤ 280 mm	TR200
Durability of compressive creep against ageing/degrad	CC(2/1,5/50)180	
NPD = no performance determined		



The variation due to aging of the thermal conductivity and resistance has been taken into account in the indicated performance

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Installation

Use a suitable adhesive for adhesion to underground walls.

Always consult the local regulations and contact the manufacturer for technical questions.

Immediately after installation the insulation boards must be protected against weather conditions, sunlight and temperatures above 75 °C.

Special indications

Hygiene, Health and Environment

The product does not contain any substance which is likely to be detrimental to your health or to the environment and complies with generally admitted Health and Safety Requirements.

Quality-, Environment- and Safety 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 and Environment Assurance Systems in line with **EN ISO 9001** and **EN ISO 14001**.

