

## 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 CO<sub>2</sub> 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	m <sup>2</sup> /pack	Boards/pallet	m <sup>2</sup> /pallet	Thermal resistance (R <sub>D</sub> ) (m <sup>2</sup> .K/W) <sup>(2)</sup>
<b>1250 x 600 mm <sup>(1)</sup></b>					
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

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

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

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

### Characteristics

Thermal conductivity - λ <sub>D</sub> (W/(m.K)) (EN 12667)	40 ≤ d < 80 mm d = 80 mm 80 < d ≤ 100 mm 100 < d ≤ 120 mm 120 < d ≤ 280 mm	0,032 <sup>(3)</sup> 0,033 <sup>(3)</sup> 0,034 <sup>(3)</sup> 0,035 <sup>(3)</sup> 0,034 <sup>(3)</sup>
Length (mm) (EN 822)		1250 ± 8
Width (mm) (EN 822)		600 ± 8
Thickness tolerance - d <sub>N</sub> (EN 823)		T1
Density (kg/m <sup>3</sup> )		35-40
Edge profile		rebate
Surface		smooth
Compressive strength at 10 % deformation (kPa) (EN 826)		CS(10\Y)500
Dimensional stability (≤ 5 %) (EN 1604)		DS(70,90)
Long term water absorption by total immersion (%) (EN 12087)		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 100 ≤ d ≤ 280 mm	NPD TR200
Durability of compressive creep against ageing/degradation (kPa) (EN 1606)		CC(2/1,5/50)180

NPD = no performance determined

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

## Installation

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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

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### 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**.

