

Unique identification code of the product type: **CELOTEX XPS 500 SL FS**

Intended use(s): **Thermal insulation for buildings**

Manufacturer: **Soprema Insulation Ltd T/A Celotex  
Lady Lane Industrial Estate,  
Hadleigh, Ipswich, Suffolk,  
IP7 6BA  
United Kingdom**

System(s) of AVCP: **System 3**

Harmonised standard: **EN 13164:2012+A1:2015**

Notified body/ies: **0751-1136-1173**

### Declared performances

Essential characteristics <sup>5</sup>	Performances	Test standard	Harmonised technical specification
Thermal conductivity - $\lambda_D$ (W/(m.K))	60 ≤ d ≤ 80 mm 80 < d ≤ 100 mm 100 < d ≤ 120 mm 120 < d ≤ 280 mm	0,033 <sup>1</sup> 0,034 <sup>1</sup> 0,035 <sup>1</sup> 0,034 <sup>1</sup>	EN 12667
Thermal resistance - $R_D$ (m².K/W)	60 - 80 mm 85 - 100 mm 105 - 120 mm 125 - 280 mm	1,80 - 2,40 <sup>1</sup> 2,50 - 2,90 <sup>1</sup> 3,00 - 3,40 <sup>1</sup> 3,65 - 8,20 <sup>1</sup>	EN 12667
Thickness tolerance - $d_N$	T1	EN 823	
Reaction to fire	F	EN 13501-1	
Durability of reaction to fire against heat, weathering, ageing/degradation	F <sup>2</sup>	EN 13501-1	
Durability against heat, weathering, ageing/degradation			
- Thermal conductivity - $\lambda_D$ (W/(m.K))	60 ≤ d ≤ 80 mm 80 < d ≤ 100 mm 100 < d ≤ 120 mm 120 < d ≤ 280 mm	0,033 0,034 0,035 0,034	EN 12667
- Thermal resistance - $R_D$ (m².K/W)	60 - 80 mm 85 - 100 mm 105 - 120 mm 125 - 280 mm	1,80 - 2,40 2,50 - 2,90 3,00 - 3,40 3,65 - 8,20	EN 12667
- Dimensional stability	(≤ 5 %)	DS(70,90)	EN 1604
- Freeze-thaw resistance	(%)	FTCD1 FTCD2 <sup>3</sup>	EN 12091
Compressive strength at 10 % deformation	(kPa)	CS(10\Y)500	EN 826
Tensile strength perpendicular to faces (kPa)	60 ≤ d ≤ 120 mm 120 < d ≤ 280 mm	NPD TR200	EN 1607
Durability of compressive creep against ageing/degradation	(kPa)	CC(2/1,5/50)180	EN 1606
Long term water absorption by total immersion	(% v)	WL(T)0,7	EN 12087
Long term water absorption by diffusion	(% v)	WD(V)2 WD(V)1	EN 12088
Water vapour diffusion resistance - $\mu$		150	EN ISO 10456
Release of dangerous substances to the indoor environment		NPD <sup>4</sup>	-
Continuous glowing combustion		NPD <sup>4</sup>	-

EN 13164:2012 + A1:2015

NPD = no performance determined

- 1) The variation due to aging of the thermal conductivity and resistance has been taken into account in the indicated performance
- 2) The fire performance does not deteriorate with time
- 3) Multi-layer thermobond boards
- 4) In the absence of European harmonized test methods, verification and declaration on release and content has to be done taking into account national provisions in the place of use
- 5) Also applicable and valid for multiple layers

The performance of the product identified above is in conformity with the set of declared performance/s. This declaration of performance is issued, in accordance with Regulation (EU) No 305/2011, under the sole responsibility of the manufacturer identified above.

Signed for and on behalf of the manufacturer by: **Marnix Derks, Technical Director  
Hadleigh, 01/04/2025**



Soprema Insulation Ltd T/A Celotex reserves the right to amend the composition of its material and consequently their prices, without prior notice. For this reason, all orders will be accepted only in accordance with the conditions and technical specifications in force at the date of order.