

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

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

Manufacturer: **SOPREMA nv
Bouwelven 5 – 2280 Grobbendonk
Belgium**

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

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

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

Declared performances

Essential characteristics ⁵	Performances	Test standard	Harmonised technical specification
Thermal conductivity - λ_D (W/(m.K)) 40 ≤ d < 80 mm d = 80 mm 80 < d ≤ 100 mm 100 < d ≤ 120 mm 120 < d ≤ 280 mm	0,032 ¹ 0,033 ¹ 0,034 ¹ 0,035 ¹ 0,034 ¹	EN 12667	EN 13164:2012 + A1:2015
Thermal resistance - R_D (m ² .K/W) 40 – 75 mm 80 mm 85 – 100 mm 105 – 120 mm 125 – 280 mm	1,25 - 2,30 ¹ 2,40 ¹ 2,50 - 2,90 ¹ 3,00 - 3,40 ¹ 3,65 - 8,20 ¹	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 ²	EN 13501-1	
Durability against heat, weathering, ageing/degradation - Thermal conductivity - λ_D (W/(m.K)) 40 ≤ d < 80 mm d = 80 mm 80 < d ≤ 100 mm 100 < d ≤ 120 mm 120 < d ≤ 280 mm	0,032 0,033 0,034 0,035 0,034	EN 12667	
- Thermal resistance - R_D (m ² .K/W) 40 – 75 mm 80 mm 85 – 100 mm 105 – 120 mm 125 – 280 mm	1,25 - 2,30 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 (%) 40 ≤ d < 100 mm 100 ≤ d ≤ 280 mm	FTCD1 FTCD2 ³	EN 12091	
Compressive strength at 10 % deformation (kPa)	CS(10\Y)500	EN 826	
Tensile strength perpendicular to faces (kPa) 40 ≤ d < 100 mm 100 ≤ 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) 40 ≤ d < 60 mm 60 ≤ d < 100 mm 100 ≤ d ≤ 280 mm	WD(V)3 WD(V)2 WD(V)1	EN 12088	
Water vapour diffusion resistance - μ	150	EN 12086	
Release of dangerous substances to the indoor environment	NPD ⁴	-	
Continuous glowing combustion	NPD ⁴	-	

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**
Grobbendonk, 23/09/2024



SOPREMA NV 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.