

## Technical Data

# XENERGY™ SL

Extruded polystyrene foam XPS (EN13164) - HFC free - grey color

Property	Standard	Unit	Value	EN code
Thermal conductivity				
Declared value <sup>1)</sup>				
Thickness				
< 60 mm	BS EN 13164	W/(m·K)	0.030	$\lambda_D$
60-80 mm	BS EN 13164	W/(m·K)	0.031	$\lambda_D$
> 80 mm	BS EN 13164	W/(m·K)	0.032	$\lambda_D$
Mechanical properties				
Compressive strength or compressive stress at 10% deformation (90 days)	BS EN 826	kPa	300	CS(10\Y)
Compressive creep (design load) max 2% deflection after 50 years <sup>2)</sup>	BS EN 1606	kPa	110	CC(2/1.5/50) $\sigma_c$
Hygrometric properties				
Long term water absorption by immersion (28 days)	BS EN 12087	Vol-%	≤ 0.7	WL(T)
Long term water absorption by diffusion				
$d_N \geq 50$ mm to < 80 mm	BS EN 12088	Vol-%	≤ 2	WD(V)
$d_N \geq 80$ mm	BS EN 12088	Vol-%	≤ 1	WD(V)
Freeze/thaw, after 300 cycles	BS EN 12091	Vol-%	≤ 1	FTCD
Dimensions and tolerances				
Thickness	BS EN 823	mm	50, 80, 100, 120, 140, 160, 180, 200, 205	T1
Width	BS EN 822	mm	600	–
Length	BS EN 822	mm	1250 2500 (for 200, 205 mm)	–
Other properties				
Reaction to fire	BS EN 13501-1	–	E	Euroclass
Linear thermal expansion coefficient	–	mm/m·K	0.07	–
Maximum service temperature	–	°C	+75	–
Capillarity	–	–	0	–
Density	BS EN 1602	kg/m <sup>3</sup>	34	–
Surface	–	–	skin	–
Edge profile	–	–	shiplap	–

Thickness [mm]	50	80	100	120	140	160	180	200	205
$R_D$ [m <sup>2</sup> ·K/W]	1.65	2.60	3.15	3.75	4.35	5.00	5.60	6.25	6.40



EN designation code: T1-CS(10\Y)300-CC(2/1.5/50)110<sup>2)</sup>-WL(T)0.7-WD(V)1,2<sup>3)</sup>-FTCD1-DS(70,90)-DLT(2)5

1) Declared thermal conductivity  $\lambda_D$  according to EN 13164 (§ 4.2.1; Annex A; Annex C.2 and C.4.1)

2) for thickness ≥ 80mm

3) varies with thickness

Product information:  
[www.ravatherm.com](http://www.ravatherm.com)

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