



Dow Building Solutions

Technical Data

XENERGY™ SL

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

Property	Standard	Unit	Value	EN code
Thermal conductivity Declared value ¹⁾				
Thickness 100 - 200 mm	BS EN 13164	W/mK	0.032	λ_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	BS EN 1606	kPa	110	CC(2/1.5/50) σ_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	BS EN 12088	Vol-%	≤1	WD(V)
Water vapour diffusion resistance factor (μ), typical	BS EN 12086	Vol-%	80-200	MU
Freeze/thaw, after 300 cycles	BS EN 12091	Vol-%	≤1	FTCD
Dimensions and tolerances Thickness	BS EN 823	mm	100, 120, 140, 160, 180, 200	T
Width	BS EN 822	mm	600	–
Length	BS EN 822	mm	1250	–
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 (aim, foam only)	BS EN 1602	kg/m ³	34	–
Surface	–	–	skin	–
Edge profile	–	–	shiplap	–

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

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

Thickness [mm]	100	120	140	160	180	200
R_D [m ² .K/W]	3.15	3.75	4.35	5.00	5.60	6.25

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