Technical Data

XENERGY™ SL Ultra

Extruded polystyrene foam XPS (EN13164) - grey color

Property[1]	Standard	Unit	Value	EN code
Thermal conductivity Declared value[1] Thickness 50-205 mm	BS EN 13164	W/(m·K)	0.027	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[2]	BS EN 1606	kPa	110	CC(2/1.5/50)σ_c
E-Modulus (typical)	BS EN 826	MPa	12-20	–
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 ≥ 50 mm to < 80 mm	BS EN 12088	Vol-%	≤ 2	WD(V)
d_N ≥ 80 mm	BS EN 12088	Vol-%	≤ 1	WD(V)
Water vapour diffusion resistance factor μ	EN ISO 10456	–	150	MU
Freeze/thaw, after 300 cycles	BS EN 12091	Vol-%	≤ 1	FTCD
Dimensional stability under specified temperature and humidity conditions	BS EN 1604	%	≤ 5	DS(70,90)
Deformation under specified compressive load and temperature conditions	BS EN 1605	%	≤ 5	DLT(2)5
Dimensions and tolerances Thickness	BS EN 823	mm	50-205	T1
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	-50/+75	–
Capillarity	–	–	0	–
Typical density	BS EN 1602	kg/m³	32	–
Surface	–	–	skin	–
Edge profile	–	–	shiplap	–

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

1) The properties refer to thickness ranges mentioned in the table
2) Depends on thickness

Product information:
www.ravatherm.com

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