RAVATHERM™ XPS X ULTRA 300 SL

Technical data sheet

Extruded polystyrene foam XPS (EN13164) - grey color

Property		Standard	Unit	Value	EN code
THERMAL CONDUCTIVITY					
Declared value[1)]					
Thickness	70 to 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	70-205	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	–
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)1,2,32)-FTCD1					

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

Material shall be stored inside in original packaging, away from direct sun light or heat sources

CE