

RAVATHERM™ XPS X ULTRA 300 SL



Technical data sheet

Extruded polystyrene foam XPS (EN13164) - grey color

Property	Standard	Unit	Value	EN13164 Designation Code		
THERMAL CONDUCTIVITY						
Declared value ¹⁾						
Thickness	70 to 175 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(10Y)		
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	$d_N \geq 50$ mm to < 80 mm	BS EN 12088	Vol-%	≤ 2	WD(V)	
	$d_N \geq 80$ mm	BS EN 12088	Vol-%	≤ 1	WD(V)	
Water vapour diffusion resistance factor μ	EN ISO 12086	-	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	70-175	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/m ³	32	-		
Surface	-	-	skin	-		
Edge profile	-	-	shiplap	-		
Thermal resistance²⁾						
Thickness(mm)	70	80	105	130	145	175
R_d m ² .K/W	2.60	3.00	3.85	4.80	5.35	6.45
DESIGNATION CODE: T1-CS(10Y)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

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