

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	$d_N \geq 50$ 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 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/m ³	32	-			
Surface	-	-	skin	-			
Edge profile	-	-	shiplap	-			
Thermal resistance²⁾							
Thickness(mm)	70	80	105	130	145	175	205
R_g m ² ·K/W	2.60	2.75	3.85	4.80	5.35	6.45	7.55
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

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