

# RAVATHERM™ XPS X ULTRA 300 SL



## Technical data sheet

Property	Standard	Unit	Value	Designation Code			
<b>THERMAL CONDUCTIVITY</b>							
Thermal Conductivity Declared	BS EN 13164:2012+A1:2015	W/(m·K)	0.027	$\lambda_b$			
<b>MECHANICAL PROPERTIES</b>							
Compressive strength or compressive stress at 10% deformation (90 days)	BS EN 826:2013	kPa	300	CS(10Y)			
Compressive creep (design load) max 2% deflection after 50 years <sup>2</sup>	BS EN 1606:2013	kPa	110	CC(2/1.5/50) $\sigma_c$			
E-Modulus (typical)	BS EN 826:2013	MPa	15-20				
<b>HYGROMETRIC PROPERTIES</b>							
Long term water absorption by immersion (28 days)	BS EN 12087:2013	Vol-%	≤ 0.7	WL(T)			
Long term water absorption by diffusion	$d_N \geq 50$ mm to < 80 mm	BS EN 12088:2013	Vol-%	2	WD(V)		
	$d_N \geq 80$ mm	BS EN 12088:2013	Vol-%	1	WD(V)		
Water vapour diffusion resistance factor $\mu$	BS EN 12086:2013	-	150	MU			
Freeze/thaw, after 300 cycles	BS EN 12091:2013	Vol-%	1	FTCD			
Dimensional stability under specified temperature and humidity conditions	BS EN 1604:2013	%	5	DS(70,90)			
Deformation under specified compressive load and temperature conditions	BS EN 1605:2013	%	5	DLT(2)5			
<b>DIMENSIONS AND TOLERANCES</b>							
Thickness	BS EN 823:2013	mm	70-205	T1			
Width	BS EN 822:2013	mm	600				
Length	BS EN 822:2013	mm	1250				
<b>OTHER PROPERTIES</b>							
Reaction to fire	BS EN 13501-1:2018	-	E	Euroclass			
Linear thermal expansion coefficient	-	mm/m·K	0.07	-			
Maximum service temperature	-	°C	-50/+75	-			
Capillarity	-	-	0	-			
Typical density	BS EN 1602:2013	kg/m <sup>3</sup>	35	-			
Surface	-	-	skin	-			
Edge profile	-	-	shiplap	-			
<b>Thermal resistance</b>							
Thickness(mm)	70	80	105	130	145	175	205
$R_d$ : m <sup>2</sup> .K/W	2.60	3.00	3.85	4.80	5.35	6.45	7.55
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							

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

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