RAVATHERM™ XPS X ULTRA 300 SL

Technical data sheet

Properties		Value		Unit	Standard	Designation Code
Thermal Conductivity Declared (λ_D)		0.027		W/m.K	BS EN 13164: 2012+A1:2015	λ_D
Compressive stress or compressive strength@ 10% deformation		300		kPa	BS EN 826:2013	CS(10\Y)
Modulus (typical values)		15 20	< 50 mm ≥ 50 mm	MPa MPa	EN 826:2013 EN 826:2013	
Tensile Strength		200	≥ 120 mm	kPa	BS EN 1607:2013	TR
Compressive Creep max after 50 years < 2% deformation under stress σC		110		kPa	BS EN 1606:2013	CC(2/1.5/50)σ
Long term water absorption by total immersion		0.7		%	BS EN 12087:2013	WL(T)
Long term water absorption by diffusion		2 1	< 80 mm ≥ 80 mm	%	BS EN 12088:2013	WD(V)
Additional water absorption after Freeze Thaw		1		%	EN 12091:2013	FTCD
Dimensional stability under specified temperature (70°C) and humidity conditions (90%rh)		< 5		%	EN 1604:2013	DS(70,90)
Dimensional stability under specified compressive load (40kPa) and temperature (70°C) conditions		< 5		%	EN 1605:2013	DLT(2)5
Coefficient of linear thermal expansion (typical value)		0.07		mm/(m.K)	-	
Reaction to fire classification		E		Euroclass	EN 13501-1:2018	
Temperature limits		-50/+75		°C	-	
Tolerances	Thickness Thickness Thickness Width length	-2/+2 -2/+3 -2/+6 -3/+3 -6/+6	< 50 mm 50 - 120 mm > 120 mm	mm mm mm mm mm	EN 823:2013 EN 823:2013 EN 822:2013 EN 822:2013 EN 822:2013	T1
Dimensions	Thickness Width Length	50 - 205 600 1250		mm mm mm	EN 823:2013 EN 822:2013 EN 822:2013	
Edge Profile		Ship Lap				
Surface finish		With Skin				

Thermal resistance							
Thickness(mm)	70	80	105	130	145	175	205
R_d: m^2.K/W	2.55	2.95	3.85	4.80	5.35	6.45	7.55

DESIGNATION CODE: T1CS(10\Y)300CC(2/1,5/50)110DS(70,90)DLT(2)5WL(T)0.7WD(V)1,2,32)FTCD1 -TR200

1) Thickness dependent
1 N/mm² = 10³ kPa = 1MPa

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

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