

RAVATHERM™ XPS X 500 SL



Technical data sheet

Properties	Value		Unit	Standard	Designation Code
Thermal Conductivity Declared (λ_D)	0.031		W/m.K	BS EN 13164: 2012+A1:2015	λ_D
Compressive stress or compressive strength@ 10% deformation	500		kPa	BS EN 826:2013	CS(10\Y)
Modulus (typical values)	20	< 50mm	MPa	BS EN 826:2013	
	25	≥ 50mm	MPa	BS EN 826:2013	
Compressive Creep max after 50 years < 2% deformation under stress σ_C	180		kPa	BS EN 1606:2013	CC(2/1.5/50) σ
Water vapour diffusion resistance factor μ (minimum)	150		-	BS EN 12086:2013	MU
Long term water absorption by total immersion	0.7		%	BS EN 12087:2013	WL(T)
Water pick-up by diffusion	2	< 80mm	%	BS EN 12088:2013	WD(V)
	1	≥ 80mm	%		
Water pick up after Freeze Thaw	1		%	BS EN 12091:2013	FTCD
Dimensional stability under specified temperature (70°C) and humidity conditions (90%rh)	< 5		%	BS EN 1604:2013	DS(70,90)
Dimensional stability under specified compressive load (40kPa) and temperature (70°C) conditions	< 5		%	BS EN 1605:2013	DLT(2)5
Coefficient of linear thermal expansion (typical value)	0.07		mm/(m.K)	-	-
Reaction to fire classification	E		Euroclass	BS EN 13501-1:2018	
Temperature limits	-50/+75		°C	-	
Tolerances (Thickness)	1		Class	BS EN 823:2013	T1
Dimensions	Thickness	50 - 120	mm	BS EN 823:2013	
	Width	600	mm	BS EN 822:2013	
	Length	1250	mm	BS EN 822:2013	
Edge Profile	Ship lap				
Surface finish	Skin				
Thermal resistance¹					
Thickness(mm)	50		75		100
R _d : m ² .K/W	1.60		2.40		3.20
CE CODE					
< 80mm	XPS - EN13164 - T1 - CS(10\Y)500 - CC(2/1.5/50)180 - DS(70,90) - DLT(2)5 - WD(V)2 - WL(T)0,7 - FTCD1				
≥ 80mm	XPS - EN13164 - T1 - CS(10\Y)500 - CC(2/1.5/50)180 - DS(70,90) - DLT(2)5 - WD(V)1 - WL(T)0,7 - FTCD1				

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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