

Technical data sheet

RAVATHERM™ XPS X 500 SL

XENERGY™ 500P

Thermal resistance R _D	Thickness(mm)	40	50	60	80	100	120				
	R _d m ² .K/W	1.30	1.60	1.85	2.50	3.10	3.75				
Properties		Value		Unit		Standard		CE Code			
Density (typical)		38				kg/m ³	EN 1602				
Thermal Conductivity Declared (λ _D)		0.031	< 60 mm			W/m.K	EN 13164	λ _D			
		0.032	≥ 60 mm			W/m.K		λ _D			
Compressive stress or compressive strength@ 10% deformation		500				kPa	EN 826	CS(10Y)			
Modulus (typical values)		20	< 50 mm			MPa	EN 826				
		25	≥ 50 mm			MPa	EN 826				
Compressive Creep max after 50 years < 2% deformation under stress σC		150	< 80 mm			kPa	EN 1606	CC(2/1.5/50)σ			
		180	≥ 80 mm			kPa		CC(2/1.5/50)σ			
Long term E-Modulus E ₅₀		15000				kPa					
Water vapour diffusion resistance factor μ (tabulated value)		150				-	EN 12086	MU			
Long term water absorption by total immersion		0.7				%	EN 12087	WL(T)			
Water pick-up by diffusion		3	< 50 mm			%	EN 12088	WD(V)			
		2	50 -79.9 mm			%		WD(V)			
		1	≥ 80mm			%		WD(V)			
Water pick up after Freeze Thaw		1				%	EN 12091	FTCD			
Dimensional stability under specified temperature (70°C) and humidity conditions (90%rh)		< 5				%	EN 1604	DS(70,90)			
Dimensional stability under specified compressive load (40kPa) and temperature (70°C) conditions		< 5					EN 1605	DLT(2)5			
Coefficient of linear thermal expansion (typical value)		0.07				mm/(m.K)	-				
Fire performance		E				Euroclass	EN 13501-1				
Temperature limits		-50/+75				°C	-				
Tolerances	Thickness	-2/+2	< 50 mm			mm	EN 823	T1			
	Thickness	-2/+3	50 - 120 mm			mm	EN 823	T1			
	Thickness	-2/+6	> 120 mm			mm	EN 823	T1			
	Width	-3/+3				mm	EN 822				
	Length	-6/+6				mm	EN 822				
Dimensions	Thickness	40 - 120				mm	EN 823				
	Width	600				mm	EN 822				
	Length	1250				mm	EN 822				
Edge profile		Ship lap									
Surface finish		Skin									
CE CODE:		XPS - EN 13164 - T1 - CS(10Y)500 - <80mm CC(2/1.5/50)150 >= 80mm: CC(2/1.5/50)180 - DS(70,90) - DLT(2)5 - <50mm: WD(V)3 / 50mm & - <80mm: WD(V)2 / >=80mm:WD(V)1 - WL(T)0.7 - FTCD1									

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