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(10\Y)
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	
Egde profile		Ship lap				
Surface finish		Skin				

CE CODE: **XPS - EN 13164 - T1 - CS(10\Y)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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CE