

## Technical data sheet

XENERGY™ 500P

Thermal resistance R <sub>D</sub>	Thickness(mm)		40	50	60	80	100	120					
	R <sub>d</sub> m <sup>2</sup> .K/W		1.30	1.60	1.85	2.50	3.10	3.75					
Properties		Value		Unit		Standard		CE Code					
Thermal Conductivity Declared (λ <sub>D</sub> )	0.031		< 60 mm		W/m.K		EN 13164		λ <sub>D</sub>				
	0.032		≥ 60 mm		W/m.K				λ <sub>D</sub>				
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						
	-				MPa		EN 826						
Compressive Creep max after 50 years < 2% deformation under stress σ <sub>C</sub>	150		< 80 mm		kPa		EN 1606		CC(2/1.5/50)σ				
	180		≥ 80 mm		kPa				CC(2/1.5/50)σ				
Tensile strength		-				kPa		EN 1607		TR			
Water vapour diffusion resistance factor μ (tabulated value)		-				-		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	
CODE CE:		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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