

## Technical data sheet

XENERGY™ 700P

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	700		kPa	EN 826	CS(10\Y)						
Modulus (typical values)	25	< 50 mm	MPa	EN 826							
	30	≥ 50 mm	MPa	EN 826							
	-		MPa	EN 826							
Compressive Creep max after 50 years < 2% deformation under stress σ <sub>C</sub>	200	< 80 mm	kPa	EN 1606	CC(2/1.5/50)σ						
	250	≥ 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)700 - <80mm CC(2/1.5/50)200 >= 80mm: CC(2/1.5/50)250 - 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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