

## Technical data sheet

XENERGY™ CWP

Thermal resistance R <sub>D</sub>	Thickness(mm)	30	40	50	60	70	80	100			
		R <sub>d</sub> m <sup>2</sup> .K/W	1.00	1.35	1.65	1.95	2.25	2.60	3.20		
Properties		Value			Unit		Standard		CE Code		
Thermal Conductivity Declared (λ <sub>D</sub> )		0.030		< 60 mm		W/m.K		EN 13164	λ <sub>D</sub>		
		0.031		≥ 60 mm							
Compressive stress or compressive strength@ 10% deformation		200				kPa		EN 826	CS(10)Y		
Modulus (typical values)		-				MPa		EN 826			
		-				MPa		EN 826			
		-				MPa		EN 826			
Compressive Creep max after 50 years < 2% deformation under stress σ <sub>C</sub>		-				kPa		EN 1606	CC(2/1.5/50)σ		
		-				kPa			CC(2/1.5/50)σ		
Tensile strength		-				kPa		EN 1607	TR		
Water vapour diffusion resistance factor μ (tabulated value)		150				-		EN 12086	MU		
Long term water absorption by total immersion		-				%		EN 12087	WL(T)		
Water pick-up by diffusion		-				%		EN 12088	WD(V)		
		-				%			WD(V)		
		-				%			WD(V)		
Water pick up after Freeze Thaw		-				%		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		-						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	-10/+10				mm		EN 822			
Dimensions	Thickness	30 - 100				mm		EN 823			
	Width	600				mm		EN 822			
	Length	2500				mm		EN 822			
Edge profile	Ship lap on long sides, Butt Edge on short sides										
Surface finish	Skin										
CODE CE:		XPS - EN 13164 - T1 - CS(10)Y250 - DS(70,90)									



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