

Technical data sheet

RAVATHERM™ XPS X 700 SL

XENERGY™ 700P

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)	42				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	700				kPa		EN 826		CS(10Y)			
Modulus (typical values)	25		< 50 mm		MPa		EN 826					
	30		≥ 50 mm		MPa		EN 826					
Compressive Creep max after 50 years < 2% deformation under stress σ _C	200		< 80 mm		kPa		EN 1606		CC(2/1.5/50)σ			
	250		≥ 80 mm		kPa				CC(2/1.5/50)σ			
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)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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