

Technical data sheet

Thermal resistance R _D		Thickness(mm)	30	40	50	60	70	80	90	100	120	
		R _d m ² .K/W	1.05	1.40	1.75	2.10	2.45	2.80	3.15	3.50	4.20	
Properties			Value			Unit		Standard		CE Code		
Density (typical)			33					kg/m ³	EN 1602			
Thermal Conductivity Declared (λ _D)			0.029					W/m.K	EN 13164		λ _D	
Compressive stress or compressive strength@ 10% deformation			300					kPa	EN 826		CS(10\Y)	
Modulus (typical values)			15	< 50 mm		MPa		EN 826				
			20	≥ 50 mm		MPa		EN 828				
Compressive Creep max after 50 years < 2% deformation under stress σC			130					kPa	EN 1606		CC(2/1.5/50)σ	
Water vapour diffusion resistance factor μ (minimum)			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 - 70 mm		%						
			1	≥ 80mm		%						
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					
	Width	-3/+3			mm		EN 822					
	Length	-6/+6			mm		EN 822					
Dimensions	Thickness	30 - 120			mm		EN 823					
	Width	600			mm		EN 822					
	Length	1250			mm		EN 822					
Edge profile			Ship Lap									
Surface finish			Skin									
CE CODE												
< 50mm		XPS - EN13164 - T1 - CS(10\Y)300 - CC(2/1.5/50)130 - DS(70,90) - DLT(2)5 - WD(V)3 - WL(T)0,7 - FTCD1										
≥ 50 - < 80mm		XPS - EN13164 - T1 - CS(10\Y)300 - CC(2/1.5/50)130 - DS(70,90) - DLT(2)5 - WD(V)2 - WL(T)0,7 - FTCD1										
≥ 80mm		XPS - EN13164 - T1 - CS(10\Y)300 - CC(2/1.5/50)130 - DS(70,90) - DLT(2)5 - WD(V)1 - WL(T)0,7 - FTCD1										

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The quality of RAVATHERM XPS products is assured in accordance with EN 13164 and EN 13172 standards. These standards establish the type and frequency of measurements executed both by independent and recognized institutions, as well as by RAVAGO laboratories.

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