

Technical data sheet

Thermal resistance R _D	Thickness(mm)	40	50	60	70	75	80	100	120			
	R _d m ² .K/W	1.30	1.60	1.95	2.25	2.40	2.60	3.20	3.85			
Properties		Value			Unit			Standard		CE Code		
Density (typical)		38			kg/m ³			EN 1602				
Thermal Conductivity Declared (λ _D)		0.031			W/m.K			EN 13164		λ _D		
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 828		
Compressive Creep max after 50 years < 2% deformation under stress σ _C		180			kPa			EN 1606		CC(2/1.5/50)σ		
Long term E-Modulus E ₅₀		9000			kPa							
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		
		2			50 - 79.9 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	
		Thickness	-2/+3			50 - 120 mm			mm		EN 823	
		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												
< 50mm		XPS - EN13164 - T1 - CS(10\Y)500 - CC(2/1.5/50)180 - DS(70,90) - DLT(2)5 - WD(V)3 - WL(T)0,7 - FTCD1										
≥ 50 - < 80mm		XPS - EN13164 - T1 - CS(10\Y)500 - CC(2/1.5/50)180 - DS(70,90) - DLT(2)5 - WD(V)2 - WL(T)0,7 - FTCD1										
≥ 80mm		XPS - EN13164 - T1 - CS(10\Y)500 - CC(2/1.5/50)180 - 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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