



LivingHeat

THE UNDERFLOOR HEATING EXPERTS

XPS FOAM INSULATION BOARDS - Technical data sheet

Properties	Value		Unit	Standard	CE Code
Density (typical value)	30		kg/m ³	EN 1602	
Thermal Conductivity Declared	0.030	20 - 50 mm	W/m.K	EN 13164	λ_D
	0.031	51 - 80 mm			
	0.032	81 - 120 mm			
Compressive stress or compressive strength @ 10% deformation	300		kPa	EN 826	CS(10\Y)
Tensile Strength ⁽¹⁾	600		kPa	EN 1607	TR
Shear Strength	250		kPa	EN12090	SS
Moduli (typical values)	E-Modulus ⁽¹⁾	10	≤ 30 mm	MPa	EN 826
		12	30 < ≤ 80 mm	MPa	EN 826
		15	> 80 mm	MPa	EN 826
	Tensile Modulus ⁽¹⁾	17	> 50 mm	MPa	EN 1607
	Shear Modulus G	8 ⁽²⁾		MPa	EN 12090
Water vapour diffusion resistance factor μ (tabulated value)	150		-	EN 12086	MU
Long term water absorption by total immersion	1.5		%	EN 12087	WL(T)
Dimensional stability under specified temperature (70°C) and humidity conditions (90%rh)	< 5		%	EN 1604	DS(70,90)
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	-0.5/+0.5	mm	EN 823	T
	Width	-0/+3	mm	EN 822	
	Length	-0/+10	mm	EN 822	
Dimensions	Thickness	50 - 125	mm	EN 823	
	Width	600	mm	EN 822	
	Length	1900 - 2500	mm	EN 822	
Edge Profile	Butt Edge				
Surface finish	Planed				

DESIGNATION CODE: XPS-EN 13164-T3-CS(10\Y)300-DS(70,90)-WL(T)1.5-TR600-SS250



1) Measured in thickness direction

2) Typical value for Shear Modulus, may vary with the inplane direction.

1 N/mm² = 10³ kPa = 1MPa

Material shall be stored inside in original packaging, away from direct sun light or heat sources

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