

Technical Datasheet

XENERGY™ LB H

Properties	Value	Unit	Standard	CE Code		
Density (typical value)	33	kg/m ³	EN 1602			
Thermal Conductivity Declared	0.031	< 150 mm	W/m.K	EN 13164	λ _D	
	0.032	> 150 mm	W/m.K		λ _D	
Thermal Conductivity for 60 days old foam - mean value at 10°C	-		W/m.K	EN 12667 EN 12939	λ-mean, 60d	
Compressive stress or compressive strength @ 10% deformation ¹	300		kPa	EN 826	CS(10Y)	
Tensile Strength ¹	600		kPa	EN 1607	TR	
Shear Strength	250		kPa	EN12090	SS	
Moduli (typical)	E-Modulus ¹	8	< 30 mm	MPa	EN 826	
		10	30 - 79 mm	MPa	EN 826	
		15	≥ 80 mm	MPa	EN 826	
	Tensile Modulus ¹	24		MPa	EN 1607	
	Shear Modulus ²	7		MPa	EN 12090	
Compressive Creep max after 50 years < 2% deformation under stress σC	-		kPa	EN 1606	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	1.5		%	EN 12087	WL(T)	
Dimensional stability under specified temperature (70°C) and humidity conditions (90%rh)	< 5		%	EN 1604	DS(70,90)	
Deformation 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	-0.5/+0.5		mm	EN 823	T3
	Width	0.0/+3	< 700 mm	mm	EN 822	
	Width	0.0/+5	≥ 700 mm	mm	EN 822	
	Length	0.0/+10		mm	EN 822	
Dimensions	Thickness	50 / 165		mm	EN 823	
	Width	600 - 1220		mm	EN 822	
	Length	1900 -2500		mm	EN 822	
Edge Profile	Butt Edge					
Surface finish	Planed					
DESIGNATION CODE:	XPS - EN 13164 - T3 - CS(10Y)300 - DS(70,90) - WL(T)1.5 - TR600 - SS250					

¹ Measured in thickness direction

1 N/mm² = 10³ kPa = 1MPa

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

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

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