



Technical Data

STYROFOAM™ LBH-X

Properties	Standard	Unit	STYROFOAM™ LBH-X	CE-Code
Cell content			HFC	
Density (typical value)	EN 1602	kg/m ³	33	-
Thermal conductivity declared (λ_D)	EN 13164	W/(m.K)	0,033	λ_D
Compressive stress or compressive strength @ 10% deformation ¹⁾	EN 826	kPa	300	CS(10Y)
Tensile strength ¹⁾	EN 1607	kPa	500	TR
Shear strength	EN 12090	kPa	250	SS
Moduli (typical values)				
E-Modulus ¹⁾	EN 826	MPa	12 (≤ 30 mm) 15 (31-80mm) 20 (> 80 mm)	-
Tensile modulus ¹⁾	EN 1607	MPa	24 (≥ 50 mm)	-
Shear modulus G	EN 12090	MPa	10	-
Water vapour diffusion resistance factor μ (tabulated value)	EN 12086	-	150	MU
Long term water absorption by total immersion	EN 12087	Class	1,5	WL(T)
Dimensional stability under specified temperature (70°C) and humidity conditions (90%rh)	EN 1604	%	5	DS(70,90)
Capillarity	-	%	0	-
Coefficient of linear thermal expansion (typical value)	-	mm/(m.K)	0,07	-
Reaction to fire Euroclass	EN 13501-1	-	E	-
Temperature limits	-	°C	-50/+75	-
Dimensions ²⁾				
Thickness	EN 823	mm	20-200	-
Width	EN 822	mm	600/1200	-
Length	EN 822	mm	2500/3000	-
Tolerances				
Thickness	EN 823	mm	-/+0,5	T
Width	EN 822	mm	< 700 mm: -0/+3 ≥ 700 mm: -0/+5	-
Length	EN 822	mm	-0/+10	-
Edge Profile	-	-	butt edge	-
Surface Finish	-	-	planed/grooved	-

Designation Code: XPS - EN 13164 - T3 - CS(10Y)300 - DS(70,90) - WL(T)1,5 - TR400 - SS250 - MU150

1) Measured in thickness direction.

2) Products with special dimensions or closer tolerances are available upon request.

1 N/mm² = 10³ kPa; 1 kPa = 10⁻³ Mpa.

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Note:

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