



## Technical Data

# STYROFOAM™ LB-H-XP

Properties	Standard	Unit	STYROFOAM™ LB-H-XP	CE-Code
Density (typical value)	EN 1602	kg/m <sup>3</sup>	33	-
Thermal conductivity declared ( $\lambda_D$ )	EN 13164	W/(m.K)	0,033	$\lambda_D$
Compressive stress or compressive strength @ 10% deformation <sup>1)</sup>	EN 826	kPa	300	CS(10\Y)
Tensile strength <sup>1)</sup>	EN 1607	kPa	600	TR
Shear strength	EN 12090	kPa	250	SS
Moduli (typical values)				
E-Modulus <sup>1)</sup>	EN 826	MPa	12 ( $\leq 30$ mm) 12 (31-80mm) 20 ( $> 80$ mm)	-
Tensile modulus <sup>1)</sup>	EN 1607	MPa	24 ( $\geq 50$ mm)	-
Shear modulus G <sup>2)</sup>	EN 12090	MPa	8	-
Water vapour diffusion resistance factor $\mu$ (tabulated value)	EN 12086	-	150	-
Long term water absorption by total immersion	EN 12087	%	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 <sup>3)</sup>				
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	<700mm: -0/+3 $\geq 700$ 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 - TR600 - SS250

- 1) Measured in thickness direction.
  - 2) It may vary with the in-plane direction.
  - 3) Products with special dimensions or closer tolerances are available upon request.
- 1 N/mm<sup>2</sup> = 10<sup>3</sup> kPa; 1 kPa = 10<sup>-3</sup> Mpa.

January 2019 - This document supersedes all previous versions and editions

#### Note:

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