fastwarm

UNDERFLOOR HEATING

INSULATION BOARDS

DATA SHEET

Our XPS Insulation boards are designed for use with Fastwarm[®] electric underfloor heating systems on substrates consisting of concrete or screeded floors.

The Fastwarm[®] XPS Insulation boards have been engineered to withstand compression strength values of up to 30 tonnes per m2, whilst being extremely lightweight, highly efficient and economic. Making this thermal insulation board a perfect choice for installing electric underfloor heating on to a concrete or screeded floor.

PROPERTIES	VALUE		UNIT	STANDARD	CE CODE
Density (typical value)	33		kg/m³	EN 1602	
Thermal Conductivity Declared	0.031 0.032	< 150 mm ≥ 150 mm	W/m.K W/m.K	EN 13164	λ_{D}
Compressive stress or compressive strength @ 10% deformation	300		kPa	EN 826	CS(10\Y)
Tensile Strength(1)	600		kPa	EN 1907	TR
Shear Strength	250		kPa	EN 12090	SS
Moduli (typical values) E-Modulus Tensile Modulus (1) Shear Modulus G	12 15 20 24 8	< 30.0 mm 30 < ≤ 80.0 mm > 80.0 mm > 50.0 mm	MPa MPa MPa MPa MPa	EN 826 EN 826 EN 826 EN 1607 EN 12090	
Water vapour diffusion resistance factor $\boldsymbol{\mu}$ (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 Width Width Length	-0.5/+0.5 -0/+3 -0/+5 -0/+10	< 700.0 mm > 700.0 mm	mm mm mm	EN 823 T EN 822 EN 822 EN 822	
Dimensions Thickness Width Length	6 - 50 600 1200		mm mm	EN 823 EN 822 EN 822	
Edge Profile	Butt Edge				
Surface finish	Planed				

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ENVIRONMENTAL SAFETY & BIOLOGICAL FACTORS

Fastwarm[®] hard foam is not affected by bacteria, moulds or fungi and will not provide nutrient value for insects or vermin. It is non-toxic, non-irritant and odourless and has a Global Warming Potential (GWP) of zero and an Ozone Depletion Potential (ODP) of zero.



THERMAL INSULATION

Fastwarm[®] Hard Foam is a closed cell material with excellent stable thermal properties based on entrapped air. It has a thermal conductivity of 0.032 w/mk.



MOISTURE RESISTANCE

Fastwarm[®] Hard Foam is nonhygroscopic and is therefore moisture resistant whilst retaining its thermal properties.



DURABILITY

Fastwarm[®] Hard Foam is rot proof and durable and will remain effective as an insolent for the life of the construction (when installed as recommended).

1 Measured in thickness direction

2~ Typical value for Shear Modulus, may vary with the inplane direction. $1~N/mm^2$ = $10^3~kPa$ = 1MPa

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

Note: The information and data contained in this technical data sheet do not represent exact sales specifications. The features of the products mentioned may vary. The information contained in this document has been provided in good faith, however it does not imply any liability, guarantee or assurance of product performance. It is the purchaser's responsibility to determine whether these products are suitable for the application desired and to ensure that the site of work and method of application conform with current legislation. No license is hereby granted for the use of patents or other industrial or intellectual property rights. If products are purchased, we advise following the most up-to-date suggestions and recommendations.

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