



# Amber-XPS

## Insulation Board

Amber-XPS 6mm Insulation Boards are perfect for use with our AmberDry system. High compressive strength (30tonnes / m<sup>2</sup>), light weight and high efficiency make this thermal board an ideal choice when fitting under the AmberDry floor heating. Simply lay onto the surface in a staggered pattern before laying the foil mat.

Properties <sup>1</sup>	Standard	AMBER-XPS	Unit
Cell content		HFC	
Density	BS BS EN 1602	33	kg/m <sup>3</sup>
E-Modulus (typical) <sup>2</sup>	BS EN 826	12	N/mm <sup>2</sup>
Thermal conductivity declared	BS EN 13164	0.033	W/m.K
Tensile strength <sup>2</sup>	BS EN 1607	0.5	N/mm <sup>2</sup>
Tensile modulus (typical) <sup>2</sup>	BS EN 1607	24(≥50mm)	N/mm <sup>2</sup>
Shear strength	BS EN 12090	0.25	N/mm <sup>2</sup>
Shear modulus (typical)	BS EN 12090	10	N/mm <sup>2</sup>
Water vapour diffusion resistance factor	BS EN 12086	100	-
Long term water absorption by total immersion	BS EN 12087	≤1.5	Vol-%
Capillary	-	0	-
Compressive stress or compressive strength @ 10% deformation <sup>2</sup>	BS EN 826	0.3	N/mm <sup>2</sup> <sup>3</sup>
Coefficient of linear thermal expansion	-	0.07	mm/m.K
Reaction to fire euroclass	BS EN 13501-1	E	-
Temperature limits	-	-50/+75	°C
Dimensions	BS EN 823 BS EN 822	upon request	-
Tolerances:			
Thickness		+0.5	mm
Width <700mm		-0/+3	mm
Width >699mm		-0/+5	mm
Length		-0/+10	mm

<sup>1</sup> The properties refer to thickness ranges mentioned in the table

<sup>2</sup> measured in thickness direction

<sup>3</sup> 1 N/mm<sup>2</sup> = 10%Pa; 1 kPa = 10<sup>-3</sup> Mpa

Product Code	1 Board Coverage (m <sup>2</sup> )	Board Thickness	Surface Finish	Edge Profile
A540XPS	0.76m <sup>2</sup>	6mm	Planed	Butt Edge