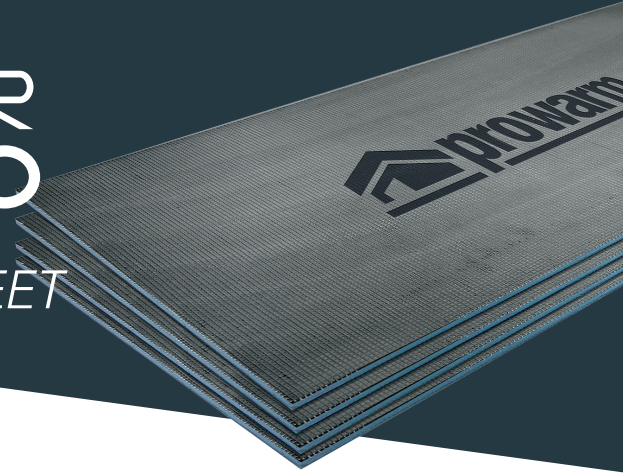




BACKER PRO

DATA & TEST SHEET



Product Description

The main component of ProWarm Tile Backer Boards is a high density, extruded polystyrene (XPS). ProWarm XPS is manufactured in an environmentally friendly process without CFC's or HCFC's. The Prowarm Backer Pro Tile Backer Board is coated on both sides with a glass-fibre mesh, reinforced with a polymer-cement coating.

Physical Properties

Property	Rating	Assessed in accordance with
XPS Foam Density	32 ±0.02kg/m ²	DIN 53420
Thermal Conductivity	0.033 w/ (m*k)	EN12167
Compressive Strength (10% deflection)	300kPa(30 tonnes/m2)	
Flexural strength	2.66MPa	ASTM C947-03 (2016)
Water absorption (2 day immersion)	<1%	ISO2896
Water absorption (Capillary)	Zero	ISO2896
Maximum tile loading weight	62kg/m ²	
Flammability	Class E	EN13501
Coefficient of linear expansion	30*10 ⁻⁶	
Water vapor diffusion resistivity (μ)	110-225μ	
Water vapour permeability	0.028ng/pa.m.s	
EU controlled substances content	None	
Nail pull resistance	261N	ASTM C473-19 Section 13 method B
Ultimate flatwise tensile strength	0.463MPa	ASTM C297/C297M-16
Antimicrobial activity test	0 Grade	ASTM G21-15
Sound reduction	29.4R/dB at 100f/Hz	

Environmental Safety & Biological Factors

ProWarm 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 Value (ODP) of zero.

Thermal Insulation

ProWarm hard foam is a closed cell material with excellent stable thermal properties based on entrapped air. It has thermal conductivity of 0.033 w/mk.

Water Proof

ProWarm hard foam is non-hygroscopic and is therefore water proof while retaining it's thermal properties.

Durability

ProWarm hard foam is rot proof and durable and will remain effective as an insulant for the life of the construction (when installed as recommended).