

## XPS Foam Insulation Board for Underfloor Heating 6mm / 10mm / 12mm - Thermal Pro Warm Insulating Board

**£5.90 £3.98**



**(The price is per board BUT we only sell them in packs of 5 so you must round up or down to the nearest 5 - 5, 10, 15, 20 - its not 5 boards for £5)**

**[MAKES UNDERFLOOR HEATING MORE EFFICIENT & SAVES MONEY]** With a U Value of 2.23 W/m<sup>2</sup> x K, the XPS foam insulation boards are suited to lay below any underfloor heating installation - retaining heat in the room making it more energy efficient & saving cost - simply lay below the underfloor heating system/foil mat

**[XPS FOAM INSULATION BOARDS 6MM / 10MM / 12MM]** High compressive strength (30tonnes / m<sup>2</sup>) suitable for a range of applications such flooring - lay below foil layer on underfloor heating systems to retain heat internally - ensuring efficient heat distribution and energy savings.

**[INSULATED XPS FOAM CORE & MOISTURE RESISTANT]** Hard backer board has great water resistance & insulation properties to keep your tiles warm to touch as well as ideal for under floor heating application ensuring heat is retain within the room and thus making installations more energy efficient - U value as low as 2.23 W/m<sup>2</sup>

**[EASY TO INSTALL SIZE - 600MM X 1200MM]** Tile backer comes in a convenient size for transporting up stairs and laying - Simply lay the boards in a staggered brick bond pattern and lay heating matt over the top. Secure the boards to the subfloor using flexible tile adhesive if tiling over.

**[CUTS WITH A STANLEY KNIFE]** Tile backer boards cut with a sharp or hot stanley knife & straight edge, saving time and money on expensive power tools as well as capable of cutting various shapes and sizes by hand such as cutting around pipes, furniture and appliances etc. & no pre-drilling required

### Board Features & Benefits:

- 1200 x 600mm +/-5% tolerance Boards (individual board size) which makes it very easy to transport and move around on site - Price is for each board which is 0.72 sq m (you need 1.4 x boards to cover 1 sq m - we recommend ordering +10% to allow for wastage / offcuts etc.)
- 6mm Thick / 10mm / 12mm
- Good insulation - reducing condensation - makes it a great surface to fit one of our electric underfloor

heating systems onto & non-conductive surface reduces condensation by masking any cold bridging from the substrate beneath

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- <0.1 vol % Moisture Absorption
- Has a high compressive strength of over 30 Tonnes per sq.m making it incredibly strong
- High compression strength and lightweight
- Compressive Strength (10% deflection to EN 826:1996) Minimum of 0.3N/mm<sup>2</sup>
- Flammability to EN 13501-1 Class E
- Impact Sound Reduction (BS-ISO140-8) 21 dLw
- Density 36kg/m<sup>3</sup> (DIN 53420)
- Bending Stiffness, E( 20mm / 30mm) 601KNmm<sup>2</sup> / 1285 kN/mm<sup>2</sup>
- Seal edges with foil aluminium tape

Number of Sq M Required (m <sup>2</sup> )	No of boards Required
4	6
5	7
6	9
7	10
8	12
9	13
10	14
12	17
14	20
16	23
18	25
20	28
25	35
30	42
35	49
40	56
45	63
50	70

Boards are price individually and only sold in packs/multiples of 5 hence you may need to round up to the nearest 5 ie. 5, 10, 15, 20, 25 etc...

## THERMAL PROPERTIES

BOARD THICKNESS (MM)	NET THICKNESS XPS (MM)	R-value (m <sup>2</sup> .K)/W	U-value W/m <sup>2</sup> x K	λd Rated value
6MM	4MM	0.11	3.63	0.0378
10MM	8MM	0.21	2.62	0.0378
12MM	10MM	0.28	2.23	0.0378

Property	Assessed to	Rating
Density	DIN 53420	32 kg/m <sup>3</sup>
Thermal Conductivity (initial)	DIN 52612	0.034 Watt/mK

Thermal Conductivity (>5yrs)	ASTM C518	0.036 Watt/mK
Compressive Strength (10% deflection)	DIN 53421	Minimum of 0.3N/mm <sup>2</sup>
Flexural Strength	ASTM C203	0.30 ±0.02 MPa
Water Absorption (2-day immersion)	ISO2896	0.2% by volume
Water Absorption (Capillary)	DIN 53428	Zero
Coefficient of linear expansion	N/A	70 x 10 <sup>-6</sup> K <sup>-1</sup>
Water Vapour Diffusion Resistivity (μ)	DIN 52615	110 - 225 μ
Water Vapour Permeability	ASTM E-96	0.028 ng/Pa.m.s
Fire Euroclass	BS EN 13501-1	Class E

## Installation

The installation method for XPS foam insulation boards depends on the type of heating system being installed:

- Wooden floor Heating System: Lay the boards in a staggered brick bond pattern, optional foal tape joints end edges, then place the heating mat directly over the boards
- Tiled floor - suitable for concrete subfloors only - the boards must be securely fixed to the subfloor using a suitable flexible tile adhesive. This ensures stability and proper heat distribution

[Optional add an on Tile Backer Board Waterproof Membrane Tape / Tanking Fleece Roll - 125mm wide comes on 5m / 10m / 15m rolls ideal for showers, wetrooms, bathrooms](#)