fastwarm®
UNDERFLOOR HEATING

TILE BACKER BOARDS

DATA SHEET

Fastwarm® Tile Backer Boards are built for superior thermal performance! Made from high-density extruded polystyrene and coated with a mesh and polymer coating, they're perfect for Fastwarm® Sticky Mats, FastGrid, and Loose Cables over concrete and timber floors. Boost heat efficiency and elevate your space with our top- tier solution!

TECHNICAL DATA

Density of EPS	Kg/m3	35
Thermal Conductivity, 90 Days, 10°C	W/(m*K)	0.032
Compressive Strength at 10% Deflection or Yield, (Vertical)	kPa	300
Tensile Strength	kPa	300
Water Absorption	Vol-%	<=1.00%
Coefficient of Linear Thermal Expansion	mm/(m*K)	0.07
Fire Resistant		E
Sound Reduction	DB	21
Temperature Limits	°C	-50°C, +75°C

BOARD SIZE

Depth:	6mm-50mm
Length:	1200mm
Width:	600mm

TOLERANCE

Thickness:	-0.5mm / +0.5mm
Width:	-0mm / +3mm
Width:	-0mm / +5mm
Length:	-0mm / +10mm

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.

MOISTURE RESISTANCE

Fastwarm® Hard Foam is non-hygroscopic and is therefore moisture resistant whilst retaining its thermal properties.

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 0.031 w/mk.

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).

CONCRETE OR SCREEDED FLOORS WITH TILE FINISH*

Ensure the subfloor is clean, dry, and free from dust, debris, or contaminants. Prime the surface using Fastwarm Primer or Ultra Pro Primer before bonding** insulation boards. Fix the boards using Fastwarm Flexible Tile Adhesive or Ultra Proflex SP, following the respective manufacturer's guidelines.

Apply adhesive with a suitable notched floor trowel, using the back-buttering method to achieve full contact. Lay Tile Backer Boards in a staggered brick-bond pattern to enhance stability and load distribution.

Once installed, prime the surface of the Tile Backer Boards with Fastwarm Primer or Ultra Pro Primer prior to installing the Fastwarm Underfloor Heating System (Sticky Mat or Loose Cable).

After the heating system is installed, tiles may be applied directly using a suitable adhesive. Alternatively, the surface can be prepared with Fastwarm Levelling Compound, Ultra ProLevel 2, or Ultra Ultimate before tiling.

TIMBER FLOORS WITH TILE FINISH

Ensure the subfloor is clean, dry, and free from dust, debris, or contaminants. Prime the surface using Fastwarm Primer or Ultra Pro Primer before bonding** insulation boards. Fix the boards using Fastwarm Flexible Tile Adhesive or Ultra Proflex SP, following the respective manufacturer's guidelines.

Apply adhesive with a suitable notched floor trowel, using the back-buttering method to achieve full contact. Lay Tile Backer Boards in a staggered brick-bond pattern to enhance stability and load distribution and second fix with suitable screws and washers at every 300mm spacing. Once installed, prime the surface of the Tile Backer Boards with Fastwarm Primer or Ultra Pro Primer prior to installing the Fastwarm Underfloor Heating System (Sticky Mat or Loose Cable).

After the heating system is installed, tiles may be applied directly using a suitable adhesive. Alternatively, the surface can be prepared with Fastwarm Levelling Compound, Ultra ProLevel 2, or Ultra Ultimate before tiling.

Important Information

*XP-Pro Boards must not be installed on timber substrates where adhesives or levelling compounds are to be used.

**Do not use solvent-based or pre-mixed adhesives.