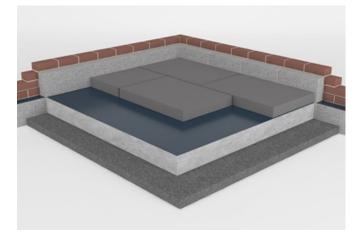
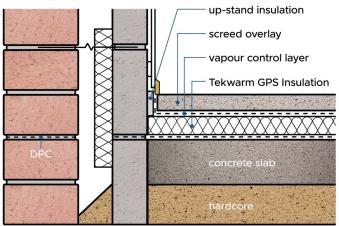
TEKWARM GPS150 INSULATION

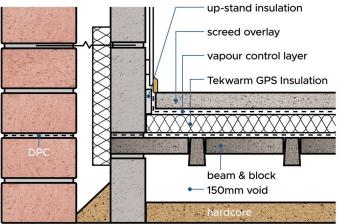




Slab on ground



Suspended beam & block



OVERVIEW

TEKWARM GPS Insulation is a lightweight, closed cell, graphite enhanced EPS board that considerably increases thermal performance and reaction to fire.

Easy to install, TEKWARM GPS Insulation can be used in a wide variety of domestic and commercial floor applications. It is most commonly used below a concrete slab, screed or chipboard floor finish.

TEKWARM GPS Insulation boards are available in a range of sizes and densities to satisfy current building regulations and required U-Values.

BENEFITS

- Offers superior thermal performance over standard EPS
- Can be used on all floor types, either above or below DPM
- Suitable for commercial and residential applications
- Minimal water absorption & permeability
- Non-toxic, non-irritant, easy to cut
- Lambda value from 0.030W/mK
- Flame retardant class E tested to BS11925-2
- A+ BRE green guide rating

COMPATIBILITY

00 TEKTHERM GPS Insulation is compatible with cement, concrete, brick, masonry, mortars, plaster and bitumen based damp proof membranes.

It must not be used in contact with membranes or other building materials containing solvents.

TEKWARM GPS expanded polystyrene insulation is compatible with all types of screed.

DURABILITY

TEKWARM GPS Insulation is rot proof, durable and will remain effective for the lifetime of the construction.

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TEKWARM GPS150 INSULATION

APPLICATION

Can be used in both screed and timber based overlay systems.

- Lay a suitable damp proof membrane to prevent the rise of ground moisture. Most DPM manufacturers recommend that sheets are given a 150mm overlap. Seal all joints using TEKCEM SINGLE SIDED TAPE.
- 2. Install the TEKWARM GPS Insulation boards ensuring that cross joints are staggered and all boards are closely butted. Ensure that all cut edges are placed either at wall perimeter or else around some other feature, (e.g. pipes and floor accessories).
- Insulation boards may be cut to size using a sharp knife or fine tooth saw.
- 4. Wherever possible, pipes and cables must be safely contained in suitable ducting and any gaps sealed using a quality expanding foam. TEKWARM GPS Insulation boards should never be allowed to come into contact with and electrical cabling or hot pipework.

For screed and concrete overlay

- 5. Cut all perimeter edge pieces and place around edges. Seal joints with TEKCEM SINGLE SIDED TAPE.
- Apply a polythene vapour control layer (minimum 500 gauge) over the insulation boards, ensuring a 150mm overlap and 100mm upturn at walls. Tape all joints using TEKCEM SINGLE SIDED TAPE.
- 7. Apply and compact the appropriate screed / concrete to the required thickness (please contact technical support for details), following the relevant clauses contained in BS8204-1:2003

DIMENSIONS

Graphite enhanced EPS insulation board

Board length:	2400mm
Board width:	1200mm
Board thickness:	Up to 300mm



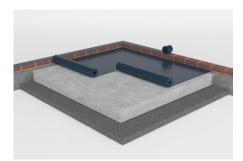
Easy to cut boards

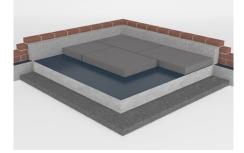
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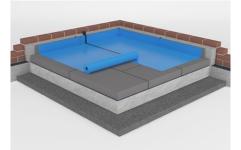
Protect pipes & electrical cables

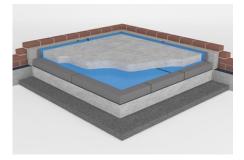












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TEKWARM GPS150 INSULATION



FEATURES	TEKTHERM GPS 70	TEKTHERM GPS 100	TEKTHERM GPS 150	Standard
Thermal Conductivity (λ90/90)(Wm ⁻¹ K ⁻¹)	0.030	0.030	0.030	EN 13163
Length Tolerance	L1	L1	L1	EN 822
Width Tolerance	W1	W1	W1	EN 822
Thickness Tolerance	T1	T1	T1	EN 823
Planarity Tolerance	P2	P2	P2	EN 825
Squareness Tolerance	S1	S1	S1	EN 824
Bending Strength (kPA)	115	150	200	EN 12089
Compressive Strength @ 10% (kPA)	70	100	150	EN 826
Compressive Strength @ 1% (kPA)	21	30	45	EN 13163
Reaction to Fire	F	F	F	EN 13501-1
Virgin Bead	Е	E	E	EN 13501-1
Water Absorption (mg Pa-1 h-1 m-1)	0.015 - 0.030	0.009 - 0.020	0.009 - 0.020	EN 13163
Dimensional Stability	DS (N) 5	DS (N) 5	DS (N) 5	EN 1603
BRE Rating	A+	A+	A+	BRE
Element No.	1315320016			BRE

CERTIFICATION

We have real pride in the products we supply. That is why we go above and beyond to ensure that we surpass all current regulations and offer all relevant certifications to stand by our expanded polystyrene products.

For further details of our certifications, please visit our website at **www.tekfloor.co.uk**



WARNING

Whilst the information provided in this datasheet is true and accurate to the best of our knowledge, it may contain information which is unsuitable under certain circumstances since materials, site conditions and method of application vary with each application.

TEKCEM LTD cannot be held be responsible for any loss or damage due to incorrect use or from the possibility of variations in working conditions and/or workmanship beyond our control. The user alone is responsible for any consequences deriving from the product.

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