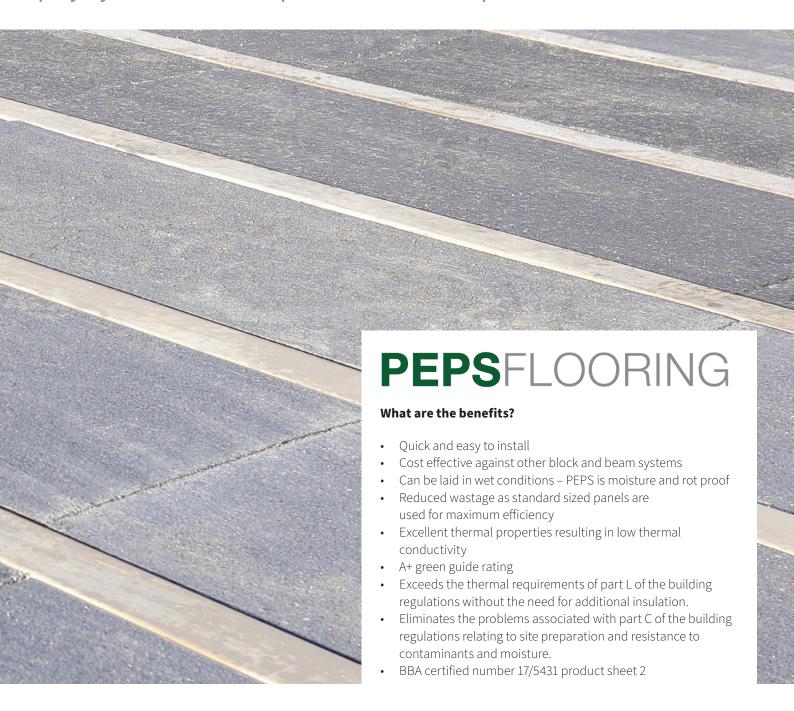


PEPS - Poundfield EPS Flooring

Expanded polystyrene (EPS) is proving to be an ideal insulating material in the construction of floors using prestressed concrete beams. PEPS is a lightweight, rigid, plastic foam insulation produced from solid beads of polystyrene. It is made up of 98% air and 2% plastic.



As major manufacturers and suppliers of beam and block flooring Poundfield Precast has introduced PEPS (Poundfield EPS flooring) as a way for our customers to supply more environmentally-friendly solutions to help reduce heating costs by improving thermal insulation and saving wasted energy.

The use of PEPS in conjunction with pre-stressed concrete beams is a highly effective, thermally efficient way of achieving and exceeding the thermal requirements of part L of the building regulations without the need for additional insulation.

PEPS will maintain its performance throughout the lifetime of the building and is therefore a long-term and cost-effective way to reduce heating costs in a property. EPS has obtained an A+ green guide rating.

Poundfield PEPS system can be installed in conjunction with underfloor heating systems which are becoming increasingly popular.

Frequently asked questions

Is EPS flooring more expensive than traditional block and beam and which is more cost effective?

Depending on the specification of the job, Poundfield's PEPS system can prove to be more cost effective than traditional beam and block. New planning conditions on floor U-values under Part L results in a reduction in overall floor values from 0.45W/m²K to 0.25W/m²K. We are able to provide full costings and advice on which system will be the optimal solution for your projects.

How do you store PEPS flooring?

The PEPS infill blocks are delivered on 5' x 4' pallets and are shrink wrapped. The PEPS infill blocks and top sheet can simply be stored using Herras fencing and weighed down using concrete blocks to prevent them being blown by wind.

Which beams from Poundfield will PEPS work with?

Our PEPS System is compatible with all of our range of beams (N1, T3, W1 and D1).

Does it get damaged by rain?

No. PEPS is waterproof and doesn't shrink or rot, therefore it can be laid in all weathers without any concerns.

Can you walk on PEPS flooring or will it damage the flooring?

The PEPS system can be walked on after installation within reason, however we do not recommend storing materials or heavy goods on them. Please ensure that your boots are clean before walking on the PEPS to avoid having to clean the blocks before laying the top sheet and membrane.



Grades of PEPS available

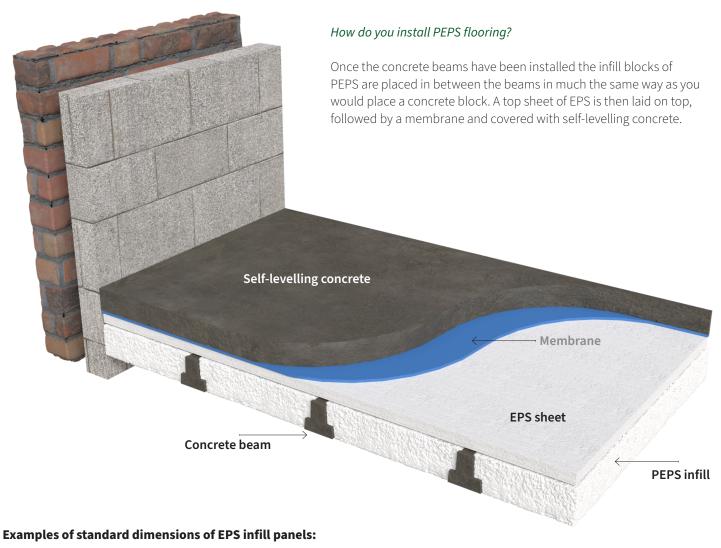
PEPs are available in both white and grey in multiple grades (70/120/150) to achieve your required U-value target. The higher the number, the denser the PEPS, and the better the thermal conductivity. For full details please see the Technical Specifications on the next page.

Difference between white and grey PEPS

The white is our standard option whilst the grey EPS contains tiny chemically modified particles that reflect heat radiation and gives the material its grey colour.

These infrared absorbers and reflectors lower the thermal conductivity of the material offering a thickness reduction of about 20% against standard white EPS.





(all dimensions in mm)





A highly effective, thermally efficient way of achieving and exceeding the thermal requirements of part L of the building regulations without the need for additional insulation.

White PEPS

Features	PEPS 70	PEPS 120	PEPS 150
Thermal Conductivity ([k] value W/mk (10.C mean))	0.038	0.036	0.035
Compress Strength (kPa Min (at 10% compressive w strengths))	70	120	150
Cross Breaking Strength (kPa Min)	115	170	200
Safe Working Load (kPa at 1% nominal compression)	21	45	70
Vapour Diffusion Resistance (factor µ1)	20-40	30-70	30-70
Vapour Permeability (omg [pa.h.m])	0.015 to 0.030	0.009 to 0.020	0.009 to 0.020

Grey PEPS

PEPS 70	PEPS 120	PEPS 150
0.031	0.031	0.031
70	120	150
115	170	200
21	45	70
20-40	30-70	30-70
0.015 to 0.030	0.009 to 0.020	0.009 to 0.020





