

Topfloor from Tarmac

HeatsavePlus - Thermal flooring System



HeatsavePlus is a suspended thermal flooring system consisting of rigid insulation units manufactured from lightweight, closed cell Expanded Polystyrene (EPS) laid between pre-stressed concrete beams and finished with a self levelling concrete topping.

Developed for residential ground floor applications, HeatsavePlus surpasses stringent Part L Building Regulations with 'U' values of 0.18w/m²K, and

makes a significant contribution in the area of sustainable development.

At 2.5kg per unit, the EPS panels are lightweight, easy, quick and simple to install and bring both environmental and financial benefits.

As EPS is rot, moisture and draft proof it also eliminates the problems associated with Part C of the Building Regulations relating to site preparation

and resistance to contaminants and moisture.

HeatsavePlus can be installed in conjunction with underfloor heating systems. This is an increasingly popular choice for today's house buyers and not only does it meet customers' demands for more environmentally-sound homes, it also saves them money by reducing heating costs.

HeatsavePlus

Thermally efficient

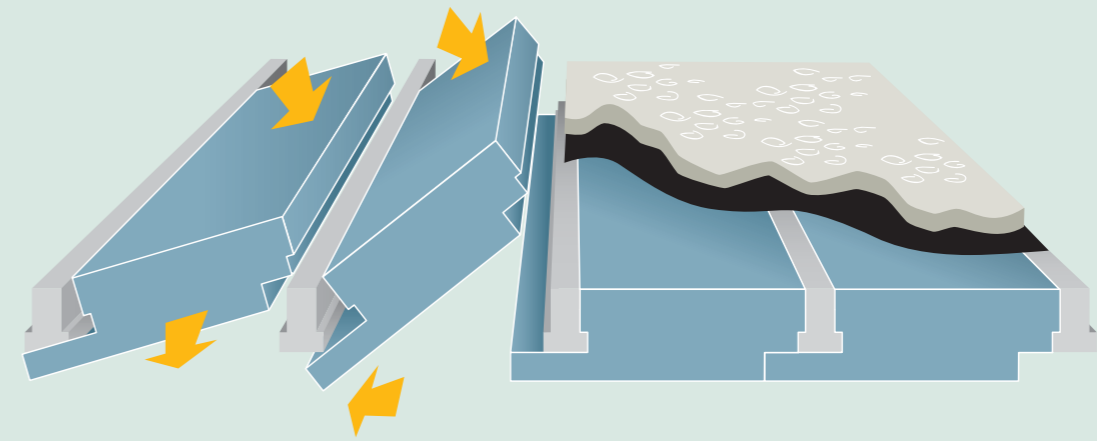
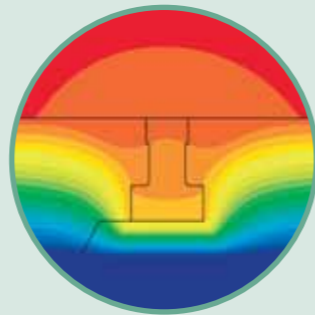
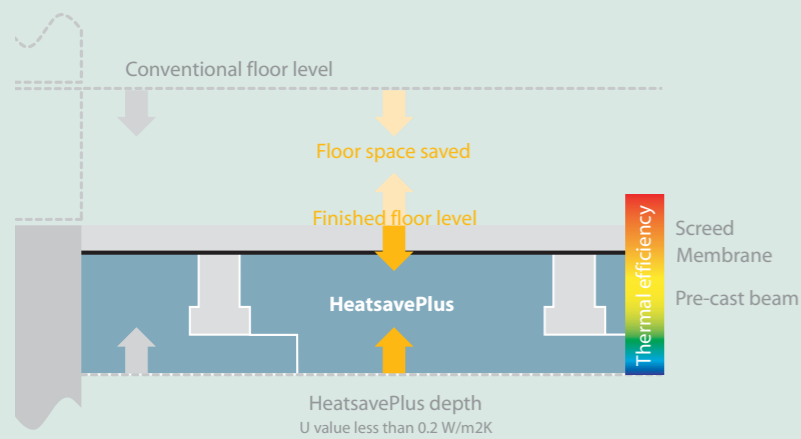
Simple to install

The complete solution

Environmentally sustainable

TopFloor quality from Tarmac





Thermally efficient.

HeatsavePlus provides excellent insulation properties, with 'U' values of 0.18w/m²K being achievable, depending on the floor area and the exposed perimeter of the building.

These extremely low 'U' values assist in exceeding the most stringent thermal requirements for Part L of the Building Regulations without the need for additional insulation,

chipboard or additional screed finishes, thereby reducing overall construction costs.

And, unlike other insulation materials, thermal efficiency is

achieved constantly throughout the life of a building.

Installed correctly, the panels form a layer of insulation below the beams preventing thermal bridging.

Simple to install.

Lightweight Expanded Polystyrene infill panels ensures safe handling, cutting and installation.

The lightweight panels are easy to handle and their innovative design ensures a very rapid installation. The panel shaping has been carefully developed to minimise cold bridging, giving an approximate insulation thickness of 85mm. HeatsavePlus is not only simple to install, it is also highly flexible when faced with awkward layouts, and it helps simplify the internal blockwork structure regarding slips and coursing.

The expanded polystyrene panels are highly flexible as they can be cut to size, so that even the most awkward lengths, span sizes and services can be easily accommodated.

The infill panels are sized to fit pre-stressed beam centres of

600mm and are 1200mm long. Each panel, weighing only approximately 2.5kg, covers more than six times the area of a standard building block making it fast and efficient to install. Waste is minimal because appropriately sized off-cuts can be reused. As well as being lightweight the panels also reduce risks associated with repetitive manual handling.

By substituting standard building blocks between standard 'T' beams with expanded polystyrene infill panels, thermal efficiency value equivalent to three times that of any lightweight thermal block can be achieved. As a result, no further floor structure insulation is required.

The HeatsavePlus thermal floor is finished with a self levelling, self compacting concrete topping such as Topflow HZ. The concrete topping must be of sufficient strength to transmit the imposed loads to the floor beams to the suppliers specification.

The screed should have a minimum thickness of 60mm from the top of the beams.





Environmentally sustainable.

Making a significant contribution to sustainable development.

The concrete and EPS components of the HeatsavePlus thermal flooring system have excellent green credentials, and make a significant contribution to sustainable development in terms of environmental, social and economic benefits.

HeatsavePlus infill panels are manufactured from non-toxic, non irritant materials which are free of CFC's or HCFC's. They have zero ozone depletion potential, zero global warming potential and are a registered product on the EcoHomes scheme. Each panel contains an element of recycled product, and off cuts of a reasonable size can be reused, minimising on-site wastage.

The panels are resistant to attack from bacteria, fungus, damp or

moisture thereby remaining stable throughout the life of the building.

HeatsavePlus can be installed with a membrane making it suitable for brownfield developments where preventing the passage of harmful gases, such as methane, carbon dioxide and radon, is a requirement.

Due to the thermal efficiency of HeatsavePlus, there is a dramatic reduction in the use of additional sheet insulation, chipboard, further screed finishes or building materials resulting in a reduction of overall construction heights. The system also eliminates additional brick courses that would normally be required to accommodate additional insulating layers.



Quality assured

Quality assurance is guaranteed at every stage of the process, with continuous assessment by the British Standards Institute providing an independent guarantee of quality flooring products.

Topfloor from Tarmac.

It's not just the system that is high quality - it's also the service. With unrivalled knowledge, technical support and personal service with nationwide coverage, Tarmac is your ideal partner when it comes to thermal flooring.

Tarmac has built up vast knowledge and experience of different types of applications over the years. We are able to share this knowledge through our technical support, design and installation services.

A complimentary design and technical support service is provided by our team of experts who have many years experience covering every imaginable application and bring invaluable knowledge of HeatsavePlus - and a whole lot more.

From estimating to drawing, calculations to specifications, we provide everything you need. When we are able to work closely with you, projects tend to be completed more quickly, accurately and efficiently. It enables the designers to work

closely with both the technical and installation teams to ensure the service is as comprehensive and responsive as possible.

And in collaboration with our manufacturing partner we are also able to offer an on line SAP calculation service - www.sapsonline.co.uk

Tarmac is the industry leader when it comes to installation. Our specialist teams are highly trained and vastly experienced and will install HeatsavePlus floor with expertise and efficiency. The number of dedicated Tarmac installation operatives means we can be flexible and responsive to your needs.

By choosing to use our installation service, we can guarantee your project is completed quickly and safely. We are able to offer

professional advice and guidance on compliance with health and safety legislation. When using our installation service a Tarmac Contracts Manager will visit your site before installation to discuss all health and safety issues and ensure that all the correct procedures are in place. They will also ensure the craneage is correctly planned and that costs and time are kept as low as possible, minimising disruption to the construction programme.



For additional information including product and technical datasheets, please contact Tarmac Topfloor on 01332 868 400 or visit www.tarmactopfloor.co.uk

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