



Heat Mat

Underfloor Heating

Call 01444 247020
to find out more or
visit our website at
www.heatmat.co.uk

Heat Mat Decoupling Membrane

Combined decoupling membrane and cable holder

This system acts as a two-in-one product; being both a fully functioning decoupling membrane, as well as functioning as a cable carrier mat for the Heat Mat range of cables.

The high quality anti-fracture membrane is usually fixed to the sub-floor with a water-based thin-bed S2 adhesive to ensure a secure bond.

Once the mat has been installed, it provides fixing loops for Heat Mat's range of heating cables allowing a speedy installation without the need to use double-sided tape.

The decoupling mat provides significant protection to the heating cables during the installation of floor tiles. Improves the warm up time and energy efficiency of all underfloor heating systems.

- Combined decoupling membrane and cable carrier for speedy installation
- Heating cables are protected from trowel work

- Vary the cable spacing over the floor area to provide targeted heat where it's required
- Speedy installation of heating cables without needing double-sided tape or glue
- Simple to cut on-site to provide complete floor coverage
- The membrane reduces movement in the floor to prevent tiles from cracking
- Protects the floor covering from movement in three dimensions

Product code	Coverage (m ²)
PKC-DEC-1500	15m ² roll of decoupling mat suitable for PKC cables
PKC-DEC-0500	5m ² roll of decoupling mat suitable for PKC cables
PKC-DEC-0100	1m ² roll of decoupling mat suitable for PKC cables
PKC-DEC-10MT	10m roll of 120mm wide sealing tape

Compatible with



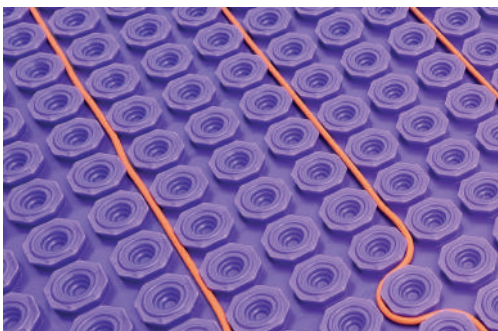
Structural thermal insulation boards

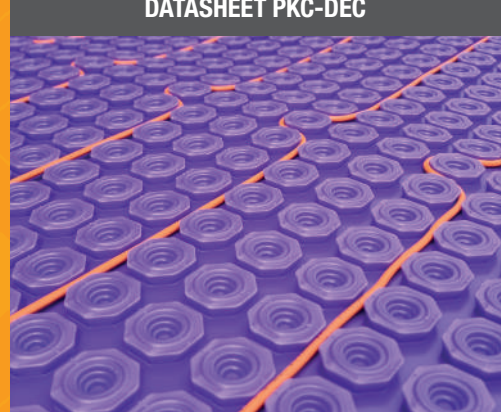
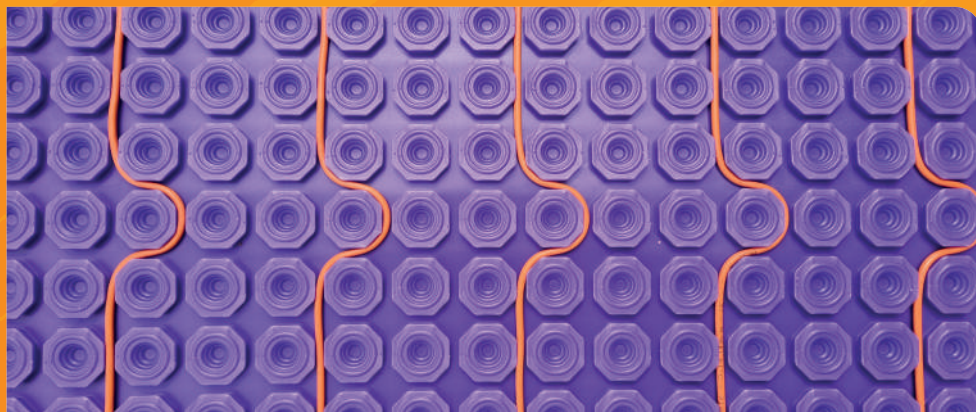


Undertile heating cable

Decoupling Membrane features

- For use with Heat Mat's range of cables
- Save time on installation by using a combined decoupling membrane and cable carrier
- Suitable for all floor finishes and protects the sub-floor from cracks
- Works in all three dimensions to dissipate movement within the sub-floor
- Two products in one; decoupling membrane and cable carrier
- Combine with decoupling membrane tape to create a waterproof layer
- Protects tiling by significantly reducing sub-floor movement
- Cables can be quickly installed without requiring tapes or glue
- Heating cables are protected during trowel work
- Simple-to-cut for total floor coverage
- Fixed to sub-floor with tile adhesive for a guaranteed bond
- Decoupling membrane features guard against sub-floor movement and stress cracking
- Made in Europe
- Extended Warranty





Selecting the correct size panels

Heat Mat's Decoupling Membrane is available in rolls of 15m x 1m and 5m x 1m and also 1m² panels. For large areas the rolls ensure the fastest installation, and for small complicated areas the 1m² panels offer an easy-to-use alternative.

Due to unavoidable trimming of the material, the width of the matting can be reduced by trimming up to 25mm (ensure the stud pattern is maintained). For most surfaces a water-based thin-bed adhesive (C2 quality) can be used. The adhesive is applied to the sub-floor using a serrated trowel (6 x 6mm).

Fixing to the sub-floor

The sub-floor must be free of any loose material that could impair adhesion. It must be level and able to bear weight, and the adhesive used to fix it must be compatible with the sub-floor and the backing fleece.

Fixing the heating cables

When fitting the cable into the decoupling mat it should easily click into place and should be tightly held; no tape should be required to prevent the cable from moving.

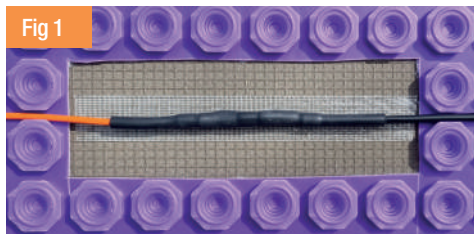
Installing the connections

The decoupling mat must be removed from beneath the coldtail connection and end termination so that they can lay flat to the sub-floor and do not stand proud of the mat.

You should remove a 6 stud by 2 stud section from beneath the coldtail connection, and a 3 stud by 2 stud section from beneath the end termination, and then the connections should be held down in the centre of these areas with double-sided tape or glue from a hot glue gun (see fig 1 and fig 2).

For a tighter fit, you can "lock" the cable in place as seen in Fig 3, this should be done once every 1 to 2 metres.

Fig 1



It is vital that these connections are not taped over, and are fully surrounded by cementaceous tile adhesive or similar.

Fig 2



Fig 3



3mm Heating Cable Technical Specification

Supply Voltage	230V +/- 10
Output range	130W – 2406W
Maximum load	15W/metre
Standard range	9.2m2 – 171.0m ²
Coverage at 150W	0.9m2 – 16.0m ²
Coverage at 200W	0.6m2 – 12.0m ²
Coldtail lead	2m double insulated cable
Wire thickness	2.7mm – 3.2mm
Cable flexibility	Minimum radius 18mm
IP Rating	IPX7
Inner insulation	Fluoropolymer (FEP Y7) 200°C
Outer insulation	PVC (Y) 90°C
Earth protection	100% aluminium earth shield
Cable reinforcement	Fibreglass strands
Fixing materials	Decoupling membrane
Compliant with	Part L, 18th Edition IEE Wiring Regulations, EN 60335-1:1998, EN 60335-2-17:1999, IEC 60730

Wiring

Heating cables must always be controlled by a suitable electric underfloor heating thermostat with floor temperature limitation. Heat Mat thermostats are rated to 16 Amps, and if a system exceeds this loading a suitably rated contactor should be used. The circuit must be protected by a 30mA RCD and suitably rated fuse or circuit breaker.



About Heat Mat

Heat Mat is part of the Heatcom group of companies, one of Europe's largest underfloor heating manufacturers. With Heat Mat's 25 years' experience of the UK underfloor heating market and a wealth of knowledge on Scandinavian ice and snow melting systems, you can rely on Heat Mat to understand your needs and supply the products to satisfy your requirements.

This is why we are the Professionals' Choice, the number one supplier of electric underfloor heating and ice and snow melting systems to the UK's professional installation market.

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