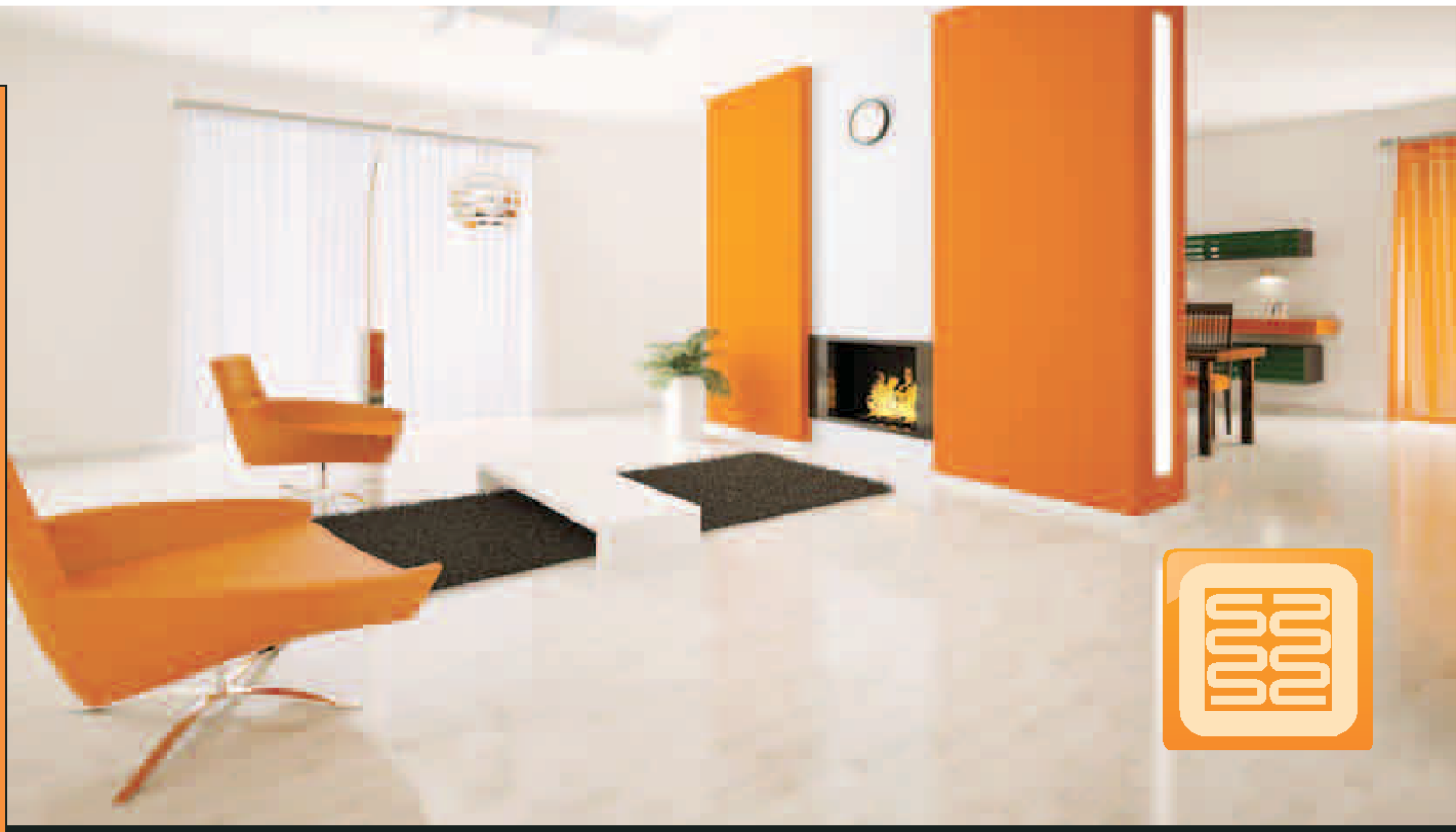


Heat Mat Underfloor Heating Mats

Our award-winning range of heating mats are simple and trouble-free to install, and are particularly suited to large areas where they are quicker to install than loose cable systems.

They offer a fast acting system regardless of whether you wish to heat one room in a new extension or your whole house.

You have a choice between a high output 200W/sqm system that is particularly suited for use in conservatories and high heat loss rooms, and a standard 160W/sqm system that can also be used beneath carpeted and vinyl flooring once it is covered with a suitable levelling compound.

- Pre-spaced heating cable
- BEAB and Semko approved and supplied with a Lifetime Warranty
- Economic to purchase and install
- 160W/sqm mats can be used beneath virtually any floor covering
- Extremely low build height
- Can provide a complete heating system in most circumstances
- Compatible with thermal insulation boards for increased efficiency
- Part L compliant
- 160W/sqm mats can provide sole source heating in well insulated rooms and 200W/sqm mats are the ideal solution for conservatories and other rooms where hot water for radiators is not available

Heat Mat Underfloor Heating Mats are compatible with...

Thermostats
page 18

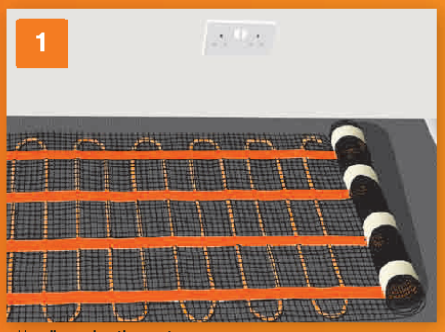
Thermal insulation boards
page 16

i-primer
page 27

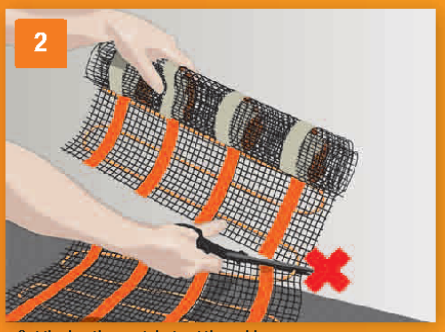
Levelling compound
page 26

Cable safe accessory
page 27

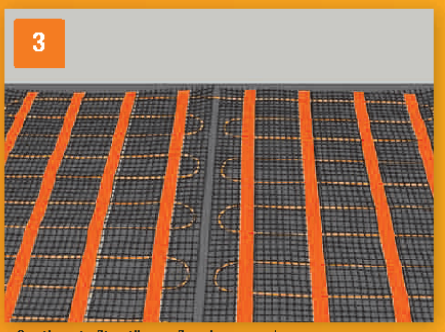
Cable trace accessory
page 27



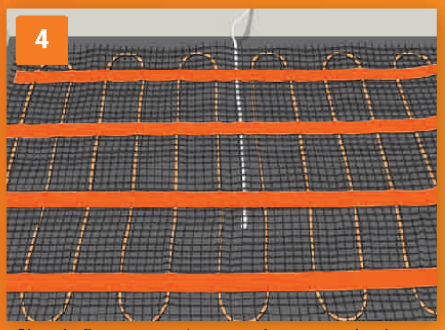
Unroll your heating mat.



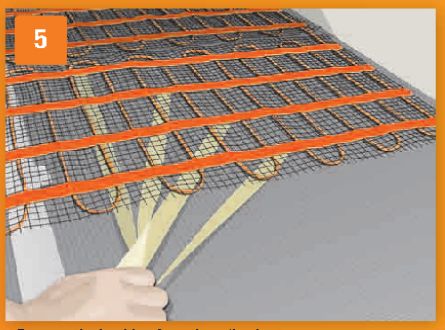
Cut the heating mat, but not the cable, when you reach an obstruction.



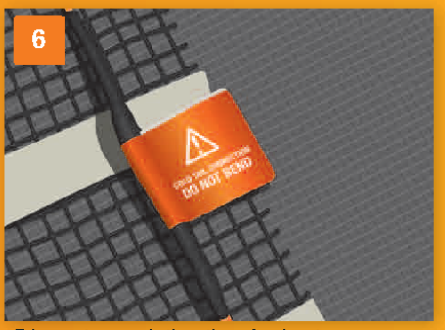
Continue to fit until your floor is covered or you start to fit your second heating mat.



Place the floor sensor under one mat between two heating cables. We recommend housing the sensor in a non-conductive flexible conduit.



Remove the backing from the adhesive tapes.



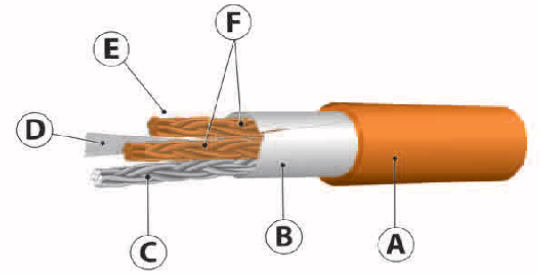
Take care to ensure both sections of each mat with orange warnings are laid flat on your floor.

Heat Mat's 3mm heating wire represents the cutting edge in underfloor heating technology incorporating dual Teflon coated heating wires, a 100% aluminium earth shield and robust PVC outer insulation.

The wire is then pre-spaced on a fibreglass mesh that also provides robust protection during the installation of the product. Our heating mats are fully BEAB and Semko system approved and manufactured in our BEAB approved factory in Denmark.

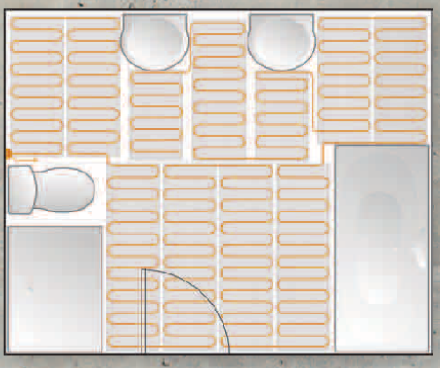
Our wire design is the cumulation of more than a decade's experience of manufacturing dual-conductor electric undertile heating cables. Although we can't think of any way to improve it at the moment, our research and development team will continue to strive to improve the design of the 'bit of wire that gets hot'!

High Tech Wire Construction



A. Robust PVC (Y) outer insulation
B. 100% aluminium earth shield for safety
C. High load earth drain wire
D. Fibreglass reinforcement cable for tensile strength
E. Teflon insulation rated to 200°C
F. Litzer style twin spiral wound resistance wires

Typical Bathroom Layout



For downloadable factsheets on all of Heat Mat's product range please scan the code above.

Heat Mat Underfloor Heating Mats – Technical Specification

160 W/m² Technical Specification

Product Code	Size in m²	Length in Metres	Width in Metres	Wattage	Resistance
PKM-160-0110	1.1 m²	2.2 m	0.5 m	179 W	315 Ω
PKM-160-0150	1.5 m²	3.0 m	0.5 m	245 W	240 Ω
PKM-160-0200	2.0 m²	4.0 m	0.5 m	327 W	166 Ω
PKM-160-0230	2.3 m²	4.6 m	0.5 m	380 W	155 Ω
PKM-160-0280	2.8 m²	5.6 m	0.5 m	457 W	132 Ω
PKM-160-0310	3.1 m²	6.2 m	0.5 m	509 W	116 Ω
PKM-160-0370	3.7 m²	7.4 m	0.5 m	601 W	97 Ω
PKM-160-0440	4.4 m²	8.8 m	0.5 m	720 W	82 Ω
PKM-160-0520	5.2 m²	10.4 m	0.5 m	854 W	68 Ω
PKM-160-0620	6.2 m²	12.4 m	0.5 m	1040 W	58 Ω
PKM-160-0680	6.8 m²	13.6 m	0.5 m	1113 W	52 Ω
PKM-160-0770	7.7 m²	15.4 m	0.5 m	1275 W	43 Ω
PKM-160-0870	8.7 m²	17.4 m	0.5 m	1439 W	40 Ω
PKM-160-1040	10.4 m²	20.8 m	0.5 m	1700 W	34 Ω

200 W/m² Technical Specification

Product Code	Size in m²	Length in Metres	Width in Metres	Wattage	Resistance
PKM-200-0060	0.6 m²	1.2 m	0.5 m	130 W	442 Ω
PKM-200-0100	1.0 m²	2.0 m	0.5 m	208 W	277 Ω
PKM-200-0160	1.6 m²	3.2 m	0.5 m	310 W	186 Ω
PKM-200-0200	2.0 m²	4.0 m	0.5 m	405 W	142 Ω
PKM-200-0260	2.6 m²	5.2 m	0.5 m	512 W	113 Ω
PKM-200-0280	2.8 m²	5.6 m	0.5 m	576 W	100 Ω
PKM-200-0350	3.5 m²	7.0 m	0.5 m	719 W	80 Ω
PKM-200-0420	4.2 m²	8.4 m	0.5 m	854 W	67 Ω
PKM-200-0540	5.4 m²	10.8 m	0.5 m	1083 W	53 Ω
PKM-200-0600	6.0 m²	12.0 m	0.5 m	1196 W	48 Ω
PKM-200-0670	6.7 m²	13.4 m	0.5 m	1353 W	43 Ω
PKM-200-0750	7.5 m²	15.0 m	0.5 m	1504 W	38 Ω
PKM-200-0890	8.9 m²	17.8 m	0.5 m	1769 W	33 Ω
PKM-200-0990	9.9 m²	19.8 m	0.5 m	1973 W	29 Ω

Technical Data...

General Construction: Dual conductor wire with earth

Voltage: 240 Vac – 50Hz

Maximum Load: 20 W/m

Maximum Cable Temperature: 90°C

Approvals: CE marked, BEAB system approved and Semko approved

Wire Thickness: 2.7mm to 3.2mm depending on Ohm Value

Cable Flexibility: Minimum allowable cable radius is 18mm

Power Range: 130W-1973W

Approved in accordance with: EN 60335-1:1998, EN60335-2-17:1999, IEC 60730

IP Rating: IPX7 as required by the 17th Edition IEE Wiring Regulations

Construction...

Thermal Conductor: 2 x resistance wire insulated with Teflon (FEP 7 Y) tested to 200°C

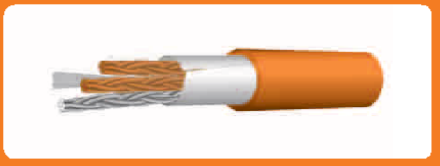
Outer Insulation: PVC (Y) tested to 90°C

Reinforcement Materials: Fibreglass wire

Reinforcement Mesh: Fibreglass mesh

Fixing Materials: Supplied with rows of double-sided tape

Earth Protection: 100% aluminium earth shield and drain wire



Approvals...

Heat Mat Lifetime Warranty

17th EDITION COMPLIANT BS 7671 : 2008

INTERTEK BEAB Approved

BEAB APPROVED FACTORY

CE

COMPLIANT PART L COMPLIANT

EMC Safe