



HEATING MATS



Heat Mat

Underfloor Heating

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

Heat Mat 160W/sqm Heating Mats

Universal, ultra-thin underfloor heating mats

160W/sqm Underfloor Heating Mats

A professional fast to fit system designed to provide energy efficient floor warming in all rooms, and a full heating system in well insulated areas. This award winning electric underfloor heating mat range has the additional benefit that it can be used beneath virtually any type of floor covering if covered with a flexible levelling compound, ensuring luxurious warm floors whatever your chosen floor finish.

160W mats offer a versatile and fast reacting underfloor heating system which is very simple to operate when used in conjunction with Heat Mat's NGTouch thermostat.

- Designed to provide floor warming in all rooms, and sole source heating in well insulated areas
- Multiple heating mats can be combined to achieve the perfect coverage
- Suitable for nearly any type of floor covering when covered with a 12mm flexible levelling compound
- Almost 100% efficient at converting electricity into heat, and can be powered by zero carbon electricity
- Independently BEAB Approved for safety and compliance and supplied with a true Lifetime Warranty

- Integrated earth shield, allowing safe installation in wet areas including bathrooms
- When used with an intelligent thermostat timer, 160W systems react faster, are more energy efficient and cost less to run than lower powered alternatives
- Technologically advanced wire design delivers minimal build height combined with a robust high powered heating cable
- Particularly suitable for large areas, where loose heating cables could take three times as long to fit
- The UK's largest range of mat sizes, providing the best possible coverage with the minimum number of mats

160W mat features

- Ideal for tiled floors, and also perfect for use beneath carpet, bonded-wood and vinyl surfaces if first covered with a flexible levelling compound
- Zero-float mesh for easy use with leveling compounds and latex screeds
- Pre-spaced heating cable for speedy installation and uniform heat output
- Simple cut and turn design enables significantly faster installation than with loose cables
- Ultra-thin fluoropolymer insulated cable ensures minimum build height
- Dual conductor cable design means only one connection lead
- A large range of standard sizes which can be mixed and matched to ensure the perfect fit
- Supplied with a Lifetime Warranty
- Independently BEAB and Semko approved for safety
- Handmade in Denmark

Compatible with



Thermal insulation boards



Additional heating mats



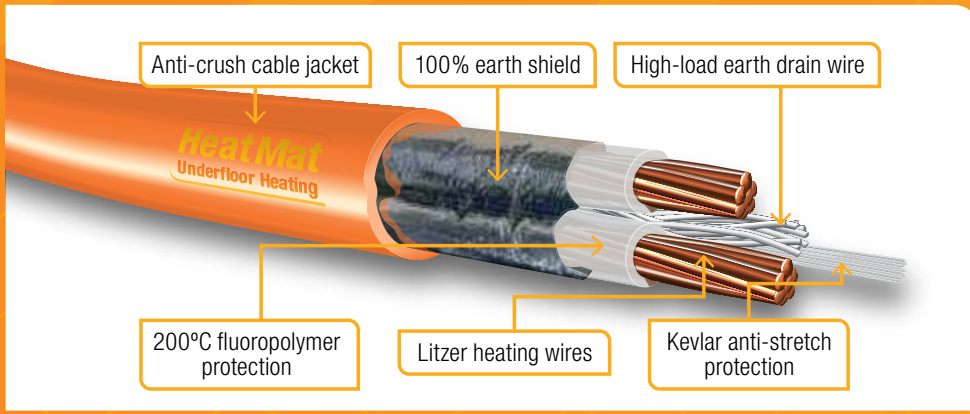
Thermostats



I-primer



Levelling compound



Our Ultimate Heating Cable

LITZER WIRE TECHNOLOGY
Litzer Wire Technology
 Multiple heating elements are spun together to provide superior strength in a very flexible heating wire.

200°C FLUOROPOLYMER PROTECTION
200°C Fluoropolymer Protection
 Super-high temperature fluoropolymer insulation surrounds the heating elements and provides superior protection.

KEVLAR ANTI-STRETCH
Kevlar Anti-stretch Cable
 Kevlar strands run through the centre of the heating cable preventing it from damage during installation.

100% EARTH SHIELD
100% Earth Shield
 An aluminium safety shield wraps the entire heating cable to ensure the system is instantly shut down if damaged.

ANTI-CRUSH CABLE JACKET
Anti-crush Cable Jacket
 The high quality PVC cable jacket provides protection against cutting and damage during installation.

100% SHIELDED COLDTAIL
100% Shielded Coldtail
 The entire coldtail is shielded continuing the 100% electrical protection.

CUT & TURN SYSTEM
Cut & Turn Mat System
 The cut-and-turn system allows mats to be turned back on themselves multiple times during fitting.

ZERO-FLOAT MESH
Zero-float Mesh
 The mesh terminates at the last row of tape rather than continuing to the ends of the cable, so none floats up when covered in levelling compound.

160W Heating Mat Technical Specification

Supply Voltage	230V +/- 10
Power output	160W/sqm
Output range	120W – 2290W
Maximum load	17W/metre
Standard range	0.7m ² – 14.5m ²
Mat dimensions	0.5m wide x 1.4m to 29m
Coldtail lead	4m 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	Kevlar strands
Reinforcement mesh	Fibreglass mesh
Fixing materials	3 or 4 rows of double-sided tape
Compliant with	Part L, 18th Edition IEE Wiring Regulations, BS EN 60335-2-96, IEC 60800

Wiring

Heating mats 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.

Product code	Size in m ²	Wattage	Resistance
PKM-160-0070*	0.7m ²	120W	503 Ω
PKM-160-0110	1.1m ²	179W	315 Ω
PKM-160-0150	1.5m ²	245W	240 Ω
PKM-160-0200	2.0m ²	327W	166 Ω
PKM-160-0230	2.3m ²	380W	155 Ω
PKM-160-0280	2.8m ²	457W	132 Ω
PKM-160-0310	3.1m ²	509W	116 Ω
PKM-160-0370	3.7m ²	601W	97 Ω
PKM-160-0390	3.9m ²	624W	92 Ω
PKM-160-0440	4.4m ²	720W	82 Ω
PKM-160-0470	4.7m ²	752W	79 Ω
PKM-160-0520	5.2m ²	854W	68 Ω

Product code	Size in m ²	Wattage	Resistance
PKM-160-0560	5.6m ²	896W	64 Ω
PKM-160-0620	6.2m ²	1040W	58 Ω
PKM-160-0680	6.8m ²	1113W	52 Ω
PKM-160-0770	7.7m ²	1275W	43 Ω
PKM-160-0830	8.3m ²	1328W	42 Ω
PKM-160-0870	8.7m ²	1439W	40 Ω
PKM-160-0980	9.8m ²	1568W	37 Ω
PKM-160-1040	10.4m ²	1700W	34 Ω
PKM-160-1160	11.6m ²	1856W	30 Ω
PKM-160-1250*	12.5m ²	2000W	27 Ω
PKM-160-1450*	14.5m ²	2290W	24 Ω

*These mats are not currently BEAB approved, but are manufactured to the same standards.



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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To see all of our products use your smart phone to scan this code.

