

Underlamine
Heating Mats

Heat Mat Underlamine System

Fully earthed underlamine heating mats

Underlamine Heating Mats

A UK manufactured fully earthed system designed to be used beneath quality floating laminate and engineered board floors without the requirement for covering with levelling compounds. The mats can provide sole source heating in well insulated rooms, and floor warming in less well insulated situations.

The mats are quick to install and can be 'cut and turned' like a conventional undertile heating mat. When used with Heat Mat's NGT thermostat they provide a fast reacting and economic to use heating system.

- Designed to provide floor warming in all rooms, and sole source heating in well insulated areas
- Dual conductor system meaning only one power lead per heating mat enabling simple installation
- Integrated earth shield within the cable (unlike carbon films), allowing safe installation in wet areas including bathrooms

- Aluminium heat dissipation layer designed to spread the heat out from the cable
- No requirement to cover the mats with an additional levelling compound or moisture barrier, saving build height and costs
- Cut and turn design offers significant advantages over panel type systems and speeds up installation
- Fail-safe design so that if the cable overheats it will cut out at a safe temperature, unlike fluoropolymer insulated underlamine heaters or carbon film systems
- Integrated 6mm insulation provides acoustic deadening as well

Product code	Size in m ²	Wattage	Resistance
ULS-130-0100	1.0m ²	130W	407 Ω
ULS-130-0150	1.5m ²	195W	271 Ω
ULS-130-0200	2.0m ²	260W	203 Ω
ULS-130-0250	2.5m ²	325W	163 Ω
ULS-130-0300	3.0m ²	390W	136 Ω
ULS-130-0400	4.0m ²	520W	102 Ω
ULS-130-0500	5.0m ²	650W	81 Ω
ULS-130-0600	6.0m ²	780W	68 Ω
ULS-130-0700	7.0m ²	910W	58 Ω
ULS-130-0800	8.0m ²	1040W	51 Ω
ULS-130-0900	9.0m ²	1170W	45 Ω
ULS-130-1000	10.0m ²	1300W	41 Ω



Heat Mat

Underfloor Heating

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

ULS Mat features

- Ideal for use beneath floating laminate and engineered board floors of up to 18mm thickness
- Dual conductor system so only one power lead per mat
- Integrated 6mm insulation provides excellent insulation properties and sound deadening
- Fail-safe cable design ensures a damaged or overheating cable will cut-out rather than continue to heat as with alternative systems
- Pre-spaced heating cable for speedy installation and uniform heat output
- Simple cut and turn design offers many advantages over panel systems
- Aluminium heat dissipation layer ensures an even heat spread with no cold spots
- With its integrated earth it is safe for all rooms including bathrooms
- A large range of standard sizes which can be mixed and matched to ensure a perfect fit
- Supplied with a Lifetime Warranty
- 17th Edition compliant without any additional earthing required
- Made in the UK

Compatible with



Thermostats

Underlamine
insulation boardsStructural thermal
insulation boardsAdditional underlamine
heating mats

Underfloor heating beneath floating laminate and engineered board floors



Selecting the correct sized heating mats

To start with you will need to calculate the free floor area (FFA). To calculate the FFA you should measure the room to find out the total floor area. You should then subtract from this any areas where kitchen or bathroom furniture will be placed, or where furniture without an air gap beneath it will be positioned. Once you have taken off these areas you have your FFA. For rooms of up to 8m², we recommend choosing a combination of heating mats which cover roughly 90% of your FFA, and for rooms larger than 8m² we recommend covering around 95% of the FFA.

Combining multiple units

130W heating mats are designed to be laid together with other 130W mats to ensure the perfect fit every time. The mats are wired into the thermostat or junction box in parallel, but it is important to ensure that any other mats used in the same room are also rated at 130W/sqm.

Simple and speedy installation

Heat Mat electric underlamine system mats are incredibly simple to install and in large areas can take just half as long to fit as a panel system. The mats can be cut and turned to ensure they fit the room perfectly, and for particularly complicated areas the cable can be stripped from the mat and laid as a loose cable. Aluminium tape is used to cover any loose cables and also to secure the mats.

Sub-floor surfaces and insulation board

Heat Mat's 6mm underlamine insulation which must be installed beneath the system offers a good trade off between build height, cost and insulation value. For particularly badly insulated areas we recommend laying Heat Mat structural thermal insulation boards beneath the 6mm insulation layer.

Designed specifically for floating floors

This system is designed specifically for use beneath quality floating laminate and engineered board floors of up to 18mm thick. You should always check with the supplier of your flooring that it is suitable for use with electric underfloor heating laid directly beneath it.

Energy efficient solution

130W heating mats are almost 100% efficient at converting electricity into heat and they can easily be powered by locally generated electricity from either photovoltaic or wind power sources. When used with Heat Mat's NGT thermostat they form an energy efficient system, and they are also suitable for integration into a home/building automation system.

Safe and guaranteed

Heat Mat's underlamine system mats are manufactured in the UK and supplied with a Lifetime Warranty. They are the only system currently on the UK market to combine a full earth shield and temperature limited fail-safe cable design with an ability to be laid without requiring a levelling compound or screed.



130W Underlamine System Technical Specification

Supply Voltage	230V +/- 10%
Power output	130W/sqm
Output range	130W – 1300W
Maximum load	8.5W/metre
Standard range	1.0m ² – 10.0m ²
Mat dimensions	0.5m wide x 2.0m to 20.0m
Coldtail lead	3m double insulated cable
Mat thickness	3.0mm
Cable flexibility	Minimum radius 25mm
IP Rating	IPX7
Insulation	2 layer plastic insulation
Earth protection	Aluminium earth shield with drain wire
Heat dissipation	Aluminium layer
Fixing materials	Loose laid 'floating' system
Compliant with	17 th Edition IEE Wiring Regulations, EN60335-2-96:2002

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.



About Heat Mat

With more than 1,000,000m² of underfloor heating installed, 17 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 Professional's 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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