



Wall Heater

# Heat Mat

## Underfloor Heating

Call 01444 247020  
to find out more or  
visit our website at  
[www.heatmat.co.uk](http://www.heatmat.co.uk)

### Wall Heating Mat Features:

- Invisible towel drying with no hot-to-touch surfaces
- Ideal for small bathrooms or en-suites
- Often used in hotel developments
- A wide range of standard sizes available from stock
- Bespoke sizes and extended coldtails manufactured with short lead times
- 100% earthed heating cable for safety and compliance with BS7671:2008
- Pre-spaced heating cable for speedy installation and uniform heat output
- Ultra-thin fluoropolymer insulated cable ensuring minimum build height
- Made in Denmark in our BEAB Approved factory
- Covered by a lifetime warranty



# Heat Mat

*Bespoke*

## Wall Heating Mats

### Standard and custom specifications to suit your project

The use of wall heating systems is increasing and Heat Mat's wall heating mats have been specified and installed at numerous projects over the last decade.

In some circumstances the use of heated towel rails is not desirable and heating the wall behind the rail is a very efficient alternative. This is an increasingly popular application in new build hotels and apartment buildings along with a suite of other applications such as:

- Keeping tiled walls warm where people will be sitting against them
- To enable fast drying of walls in wet rooms and showers
- Providing additional ambient heating to rooms where other heat sources are not practical

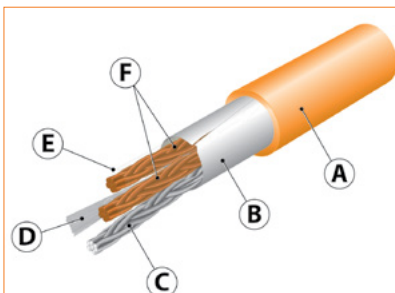
### Available Sizes

You can pick from a wide variety of standard mat sizes held in stock or use our bespoke service, which offers custom sized units with options such as extended coldtails manufactured with a very short lead time.

Standard and bespoke mats are 17<sup>th</sup> edition compliant and are fully earthed for safety. All Heat Mat wall heating mats are manufactured in our BEAB Approved factory in Denmark. The mats are also covered by our Lifetime Warranty for peace of mind.

### Wall Heating Mats

- Dry towels or heat the room with no hot-to-touch surfaces
- 100% earth shield and IPX7 rating included for safety and compliance with BS7671:2008
- Pre-spaced heating cable to ensure an even heat profile
- Straightforward and quick to install behind tiles
- Wall heating mats can be used to demist large mirrors
- Temperature control can be easily included when required
- Most applications can be satisfied directly from stock
- Bespoke wall heating systems can be supplied with very short lead times



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

The construction of a wall mat heating cable.

# Heat Mat

## Bespoke

### Technical Specification

Supply Voltage	230V +/- 10
Power output	80W – 200Wsqm
Output range	80W – 250W
Maximum load	20W/metre
Standard range	0.6m <sup>2</sup> – 11.6m <sup>2</sup>
Mat dimensions	0.5m wide x 1.2m to 23.2m
Standard 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	Fibreglass strands
Reinforcement mesh	Fibreglass mesh
Fixing materials	4 rows of double-sided tape
Compliant with	Part L, 17 <sup>th</sup> Edition IEE Wiring Regulations

### Wiring

Wall heating mats should usually be controlled by a suitable electric underfloor heating thermostat set to external temperature limitation using a 'floor' temperature sensor embedded in the wall. 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 dedicated 30mA RCD and suitably rated fuse or circuit breaker.



### Wide Variety of Standard Sizes

We can supply three outputs and more than 30 sizes of wall heating mat direct from stock. Where required, the heating mats can be manipulated on site to allow their dimensions to be altered.

For particularly complicated installations in small areas or on curved surfaces a loose heating cable may be more suitable and we can provide advice on this option if required.

### Installation Materials.

When installing the heating mats they must always be totally encased in a flexible tile adhesive suitable for use on walls, and a flexible grout should be used between the tiles. Additional securing of the heater to the wall can be achieved with staples (on the mesh only, not the cable) or with a hot glue gun on the mesh and cable.

### Moisture Penetration

If the room on the reverse of the wall to be heated is very damp the heater increases the risk of moisture penetrating through the wall. In these circumstances we recommend installing Heat Mat thermal insulation boards or a waterproof membrane behind the heating mat to prevent moisture ingress; a 12.5mm board can be supplied to replace plasterboard.

Thermal insulation boards can also be used to prevent heat penetrating the wall and they will enable the system to run more efficiently.

### Installation Considerations

BS7671:2008 – S753 Floor and Ceiling Heating Systems specifically excludes wall heating systems from its advice, therefore 522.6.6 to 522.6.8 relating to concealed cables must be considered (along with all other applicable electrical regulations covering the installation). Heat Mat's heating mats and 3mm cables all contain a 100% aluminium earth shield as required by 522.6.6, and we additionally recommend the heating system should also be protected by a suitable dedicated 30mA RCD.

We advise that heating mats in walls are always kept at least 10mm away from conductive parts where practicable, and there should be at least a 20mm distance between heating cables. Details of the location of any wall heating systems should be retained with the electrical documentation for the property.

### Specification Service

We offer a full specification service and technical support throughout the process, from concept development to installation. Call our technical team on 01444 247020 to discuss bespoke systems or project requirements.

### About Heat Mat

With more than 1,400,000m<sup>2</sup> of underfloor heating installed, 22 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.



### Contact us

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