

FIRST
FLOOR HEATING
DIRECT



UNDERFLOOR HEATING

PRODUCT SELECTION GUIDE



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WARM FLOOR LUXURY

More and more homes are enjoying the luxury of warm floors in bathrooms, kitchens, conservatories or any where else in the home.

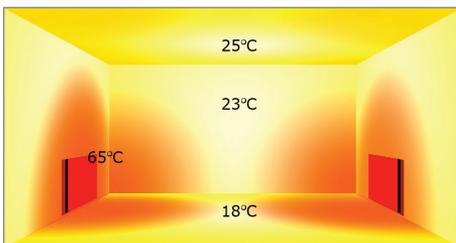
They are discovering why **FirstFloor** is the best and most affordable heating system, whether the application is renovating or new build.

Our systems can be placed under woods, carpets, ceramic tiles or stone meaning you can enjoy warm floor luxury anywhere in your home.

At **FirstFloor** we want our users to have the safest most easy to use system possible. That's why our mats go beyond normal safety measures, providing twin core triple insulated cables, a fiberglass mat for ease of installation and unrivalled easy to use programmable controllers.

We offer on all our floor heating mats and cables a 10 year warranty.

Conventional heating methods

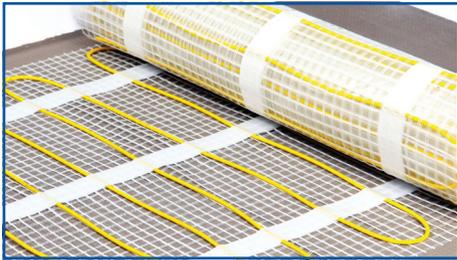


FirstFloor heating systems



FIRST FLOOR MAT₂₀₀

Our new powerful **200watt** mat has been specially introduced for use as a sole source of heat subject to a heat loss calculation. The mat is primarily designed to provide extra power for areas such as conservatories, kitchens, and lounges to go under tiles, stone or marble. The cable is woven into our adhesive fibre glass mesh and at only 3mm thick it is one of the thinnest systems on the market today.



Fully adhesive mat for ease of installation

Surpasses International standards

Can be used as a sole source of heat in most cases

One connection cable for added ease

10 Year cable warranty

No electromagnetic fields

SINGLE MATS

Part No.	Area of mat	Width	Length	Loading
200MAT1	1m ²	0.5m	2m	200W
200MAT1.5	1.5m ²	0.5m	3m	300W
200MAT2	2m ²	0.5m	4m	400W
200MAT2.5	2.5m ²	0.5m	5m	500W
200MAT3	3m ²	0.5m	6m	600W
200MAT4	4m ²	0.5m	8m	800W
200MAT5	5m ²	0.5m	10m	1000W
200MAT6	6m ²	0.5m	12m	1200W
200MAT7	7m ²	0.5m	14m	1400W
200MAT8	8m ²	0.5m	16m	1600W
200MAT9	9m ²	0.5m	18m	1800W
200MAT10	10m ²	0.5m	20m	2000W
200MAT12	12m ²	0.5m	24m	2400W
200MAT15	15m ²	0.5m	30m	3000W

KITS Including Heating Mats, Controller, Conduit & Floor Probe

Part No.
200KIT1
200KIT1.5
200KIT2
200KIT2.5
200KIT3
200KIT4
200KIT5
200KIT6
200KIT7
200KIT8
200KIT9
200KIT10
200KIT12
200KIT15

FIRST FLOOR MAT₁₆₀

Our **160watt** mat has all the attributes of our 200watt mat, but has the added benefit of being able to be applied on marine ply/wood surfaces.

Its main aim is to provide comfort heat by heating tiles to give a luxury underfoot feel.

Our mats are uniquely designed to aid the installer by making them completely sticky on the underside and having a peel off film to enable the installer to design how he wants to lay the mat before sticking it down.



One connection for added ease of installation

Fully adhesive mat for ease of installation

10year cable warranty

SINGLE MATS

Part No.	Area of mat	Width	Length	Loading
160MAT1	1m ²	0.5m	2m	160W
160MAT1.5	1.5m ²	0.5m	3m	240W
160MAT2	2m ²	0.5m	4m	320W
160MAT2.5	2.5m ²	0.5m	5m	400W
160MAT3	3m ²	0.5m	6m	480W
160MAT4	4m ²	0.5m	8m	640W
160MAT5	5m ²	0.5m	10m	800W
160MAT6	6m ²	0.5m	12m	960W
160MAT7	7m ²	0.5m	14m	1120W
160MAT8	8m ²	0.5m	16m	1280W
160MAT9	9m ²	0.5m	18m	1440W
160MAT10	10m ²	0.5m	20m	1600W
160MAT12	12m ²	0.5m	24m	1920W
160MAT15	15m ²	0.5m	30m	2400W

KITS

Including Heating Mats, Controller, Conduit & Floor Probe

Part No.
160Kit1
160KIT1.5
160KIT2
160KIT2.5
160KIT3
160KIT4
160KIT5
160KIT6
160KIT7
160KIT8
160KIT9
160KIT10
160KIT12
160KIT15

FIRST FLOOR CABLE

LOOSE CABLE

Our **10watts**/metre loose cable range is widely used when a matted system is not practical, especially in areas which have awkward shapes and obstructions particularly in bathrooms

All cable systems come with fixing tape

Designed for small areas where matting can't be used

One connection for added ease of installation.

Part No.	Cable Length	Coverage at 120W/m ²	Coverage at 160W/m ²	Coverage at 200W/m ²	Loading	Amps
10CABLE20	20m	1.66m ²	1.25m ²	1m ²	200W	0.9A
10CABLE30	30m	2.5m ²	1.87m ²	1.5m ²	300W	1.3A
10CABLE40	40m	3.3m ²	2.5m ²	2m ²	400W	1.8A
10CABLE60	60m	5m ²	3.75m ²	3m ²	600W	2.6A
10CABLE80	80m	6.6m ²	5m ²	4m ²	800W	3.5A
10CABLE100	100m	8.34m ²	6.25m ²	5m ²	1000W	4.35A
10CABLE120	120m	10m ²	7.5m ²	6m ²	1200W	5.22A
10CABLE150	150m	12.5m ²	9.37m ²	7.5m ²	1500W	6.53A

IN SCREED CABLE

Our **17 watts**/metre has been designed for installation in a concrete screed 50-100mm. When installed at correct spacings it will be able to provide an economical solution for sole source heating in most circumstances.



Part No.	Coverage at 160W/m ²	Coverage at 200W/m ²	Loading	Amps
17Cable10	1.06m ²	0.85m ²	170W	0.7A
17cable20	2.12m ²	1.7m ²	340W	1.5A
17cable30	3.18m ²	2.55m ²	510W	2.2A
17cable60	6.30m ²	5.10m ²	1020W	4.4A
17cable90	9.50m ²	7.65m ²	1530W	6.6A
17cable120	12.75m ²	10.2m ²	2040W	8.8A
17cable150	15.90m ²	12.75m ²	2550W	11.0A

FIRST FLOOR MAT_{FME}

Our new FME mat opens the door for easy installation under laminates and carpets. The FME mat is a complete foil mat to produce a gentle even heat ideal for use under carpets and woods.

The mat is laid on top of our 3mm thick close cell insulation. These 2 combined will only raise your floor by 4mm making it the thinnest mat on the market for this type of installation. We have made floor heating simple for woods and carpets. If you are planning on using a wood finish the wood must be laid as a floating floor.

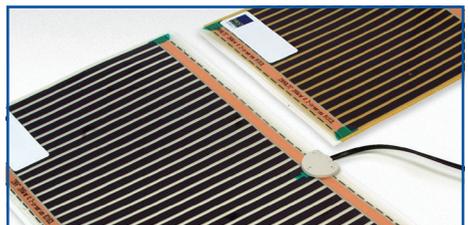
Heater mats are available from 1-10m² and are rated at 150 watts/metre. When being installed under carpets we recommend that both the carpet and the underlay do not exceed 2 tog and an RCD is fitted by the electrical installer.



Part No.	Area of mat	Width	Length of mat	Loading
FMEMAT0.75	0.75m ²	0.5m	1.5m	112.5W
FMEMAT1	1m ²	0.5m	2m	150W
FMEMAT1.5	1.5m ²	0.5m	3m	225W
FMEMAT2	2m ²	0.5m	4m	300W
FMEMAT3	3m ²	0.5m	6m	450W
FMEMAT4	4m ²	0.5m	8m	600W
FMEMAT5	5m ²	0.5m	10m	750W
FMEMAT6	6m ²	0.5m	12m	900W
FMEMAT7	7m ²	0.5m	14m	1050W
FMEMAT8	8m ²	0.5m	16m	1200W
FMEMAT9	9m ²	0.5m	18m	1350W
FMEMAT10	10m ²	0.5m	20m	1500W
INSULATION	Close cell insulation 3mm thick x 10metre rolls			
FIXAL5050	Aluminium foil fixing tape 50mtr			

FIRST FLOOR MIRROR

FirstFloor have a comprehensive range of demister heaters which have an adhesive backing for attaching to the rear of the mirror. For bespoke sizing contact our technical help line.



FIRST FLOOR ACCESSORIES

FIRST FLOOR CONTROLS

FirstFloor sell a comprehensive range of underfloor heating thermostats.

Our fully digital programmable controllers are designed to give maximum versatility while providing ease of programming. The controllers have 4 daily programmes with separate weekday and weekend settings.

The touch screen and programmable controllers all come with both floor and air



sensors Our controllers are rated at 15Amp however 25Amp relay switching is available for single zone large areas. 10°C-30°C manual controllers rated at 13Amp are also available.

FIRST FLOOR BOARDS

The insulation construction boards are designed to reduce heat losses dramatically going into the ground. This makes them ideal for use with underfloor heating



systems by making the heat up times quicker thus reducing the running costs.

LEVELFLEX

A fibre reinforced self levelling compound designed to protect the heating mat or cable prior to tiling.

Part No.	Description
CONTROL R	Digital Programmable Controller (White)
CONTROL RS	Digital Programmable Controller (Silver)
CONTROL RG	Digital Programmable Controller (Graphite)
CONTROL M	Manual Controller (White)
CONTROL-TW	Digital Programmable Touch Screen Controller (white)
CONTROL-TB	Digital Programmable Touch Screen Controller (black)
RELAY	25A Relay Unit
THERMALARM	Floor Heating Continuity Alarm
CONSTRBOARDS	10/6mm Insulation Construction Boards 1200mm x 600mm
THERMSCREWS	Tile backer board washer pack C/W fixing screws. Pack of 50
THERMSCRIM	Sealing scrim tape designed to seal ThermBoard joints
FIXAL5050	Aluminium foil fixing tape 50mtr
LEVELFLEX	Self levelling floor screed

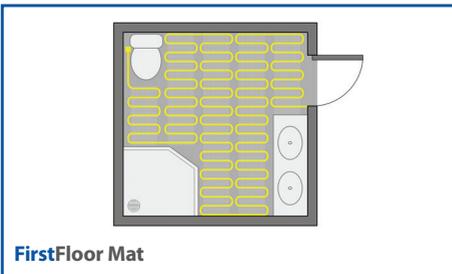
INSTALLATION DETAILS

FirstFloor Mat floor heating mats are one of the easiest systems to install on the market today. The twin conductor, single lead elements are mounted onto a fabric mesh which means it does not want to go back into its original roll shape when being laid. With a large range of sizes available it is suitable for both large and small areas.

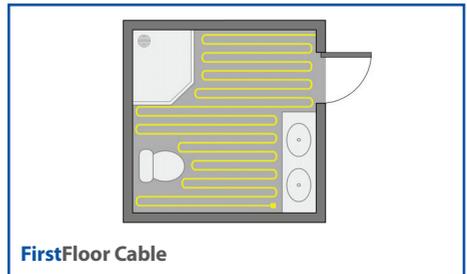
FirstFloor Mat is available in two standard power outputs, **160w/m²** and **200w/m²**.

FirstFloor Mat rated at **160w/m²** is ideal for comfort heating, while the **200w/m²** are widely used for a primary source of heating. Please check on the insulation properties of the building and carry out a heat loss calculation before deciding on the correct heater size.

FirstFloor Cable is the same twin conductor element as the **FirstFloor Cable**, supplied on a reel and is ideal for installation for small areas ie bathrooms/toilets.



FirstFloor Mat



FirstFloor Cable

FirstFloor Mat or **FirstFloor Cable** cold lead wire: Connect direct to the **FirstFloor Control** programmable controller.
(when room requires more than 2 mats or cables connect via a junction box)

Floor sensing wire:
Connect to the **FirstFloor Control** programmable controller

Floor temperature probe - install inside the flexible floor sensing tube

Heating Element - YELLOW

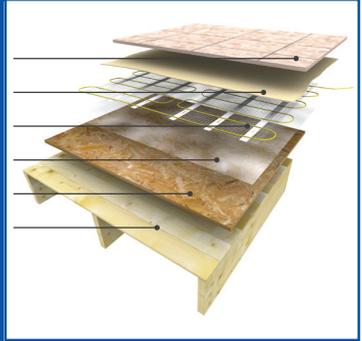
Cold Lead Wire - BLACK

Floor Sensing Wire - WHITE

FIRST FLOOR MAT

on timber sub floor

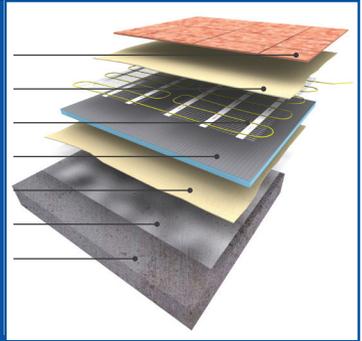
- Floor Tiles
- Flexible Adhesive
- FirstFloor Mat**
- Floor Primer
- Marine Plywood/**FirstFloor Boards**
- Floorboards



FIRST FLOOR MAT

on concrete sub floor

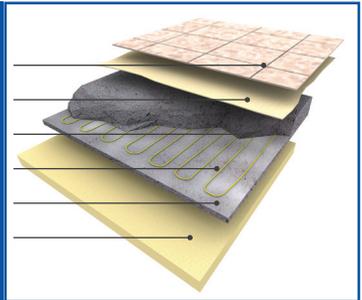
- Floor Tiles
- Flexible Adhesive
- FirstFloor Mat**
- FirstFloor Boards**
- Flexible Adhesive
- Floor Primer
- Concrete Screed



FIRST FLOOR CABLE

in screed

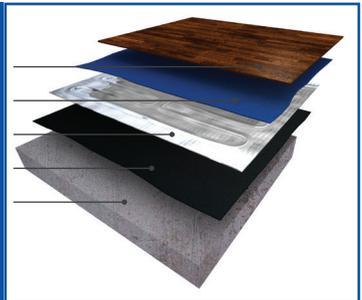
- Floor Tiles
- Flexible Adhesive
- Concrete Screed
- FirstFloor Cable** in screed
- Concrete Base
- Insulation



FIRST FLOOR MAT FME

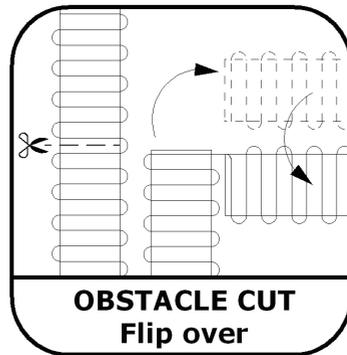
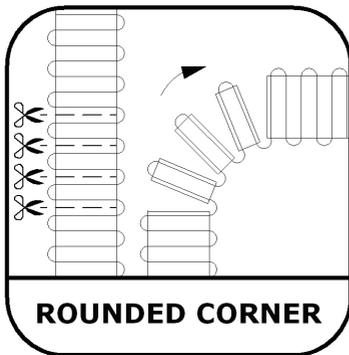
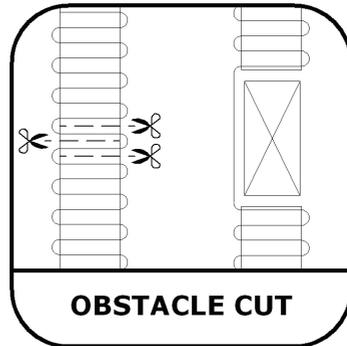
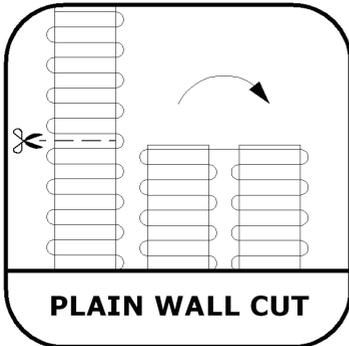
for use with laminate and vinyl flooring

- Laminate Floor
- Sound Proof Membrane
- FirstFloor Mat FME**
- Close Cell Insulation
- Concrete/Wood Base



INSTALLATION DETAILS

FirstFloor Cable is perfect for the DIY enthusiast or specialist contractor, a qualified electrician can advise on the electrics and help you with the final connection to the mains



Contact **FirstFloor Heating Direct** technical support for help on Tel: **08081293020**

Designed for operation at 230V installation requires an R.C.D. (residual current device) protection for safe operation.

FAQ's

How much will the running costs be ?

Based on a 160watt mat, running costs will work out at under 1p/m² per hour.

How long will it take for my floor to warm up ?

This is dependent on how well insulated the sub floor is. When using our insulated construction boards under tiles the floors will be at temperature within an hour. Using the 200watt system will also give you a faster heat up time over the 160watt system.

Is it necessary for an expert to install our matted or cable systems?

Installation is ideal for either the DIY enthusiast or approved installation contractors. The electrical supply must be protected by a correctly sized RCD (Residual Current Device), either at the mains or a fused spur. The system connects to your household wiring and it is recommended the final mains electrical connection is made by a qualified electrician.

Going Green !!

There is a real pay-back with insulated floors in terms of energy and running cost savings. Before you know it the boards will have paid for themselves.

Why insulate ?

Systems rated at 160 w/m² and 200W/m² are installed on uninsulated concrete floors with good results both in conservatories and internal rooms. However, due to the thermal dynamics involved, a cold uninsulated concrete subfloor will absorb up to 30% of the heat load down into the floor. Without insulation the heat up rate is slower and running costs higher. It is a fact however, many installations have critical floor levels and a layer of insulation, just 10mm, is not practical. To make the best use of the installed energy, insulation should be installed, either below the subfloor or as a layer of insulation backing board on top of the subfloor, OR BOTH.

Where can't I lay the underfloor heating?

When using the FME for underneath woods, care should be taken not to place any heating beneath areas where a thermal block will be placed on the top floor covering. Furniture without air gaps beneath them or large beanbags prevent the heat from escaping and could cause the system to overheat.

Please also set the controller to Air and floor mode to turn on the floor limiter.

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Contact First Floor Heating Direct technical support for help on:

0801 293020

Stockist

Supplier



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