GB Installation And User Instructions

Devimat™ Warm Floor System

Installation Instructions
User Guide
Trouble Shooter

DEVI™

Existing Floor	Maximum load per m^2
Wooden Floors	100 W/m^2
Concrete Floors	150 W/m^2

In all above situations, the floor temperature must be controlled with a DEVI floor sensor and Devireg™ 550 thermostat/timer, or Devireg™ 130 thermostat.

INSTALLATION: KEY POINTS

- Before laying the mat the floor sensor (in controller box) MUST be installed. The sensor is fitted into a tube (in mat box) which should be laid 20-30cm across the floor under the mat between a cable loop.

- Before laying check the continuity of the cable, it should match the Ohm rating on the Devimat™ label with a tolerance of -5 to +10% and check the insulation resistance which should read infinity.

- To install the mat simply cut and turn the mat. The heating cable must NOT be cut or subjected to strain around the area of the coupling, only the blue and black cables can be cut to suit.

- When installing more than one mat, all 'cold tails' (blue/black wires) must be taken back to the connection point/controller, DO NOT wire one mat to another.

- After laying the adhesive the heating mat must be checked once again for continuity and insulation resistance, then connected by an authorised electrician.

- The blue central core is NEUTRAL and the black central core is LIVE. The outer surrounding copper wire is the earth screen and should be connected to earth.

- A flexible adhesive is required when installing the devimat™ product.

- Installation on new concrete floors should not be carried out for approximately 30 days to ensure thorough drying out.

Devimat™ specifications

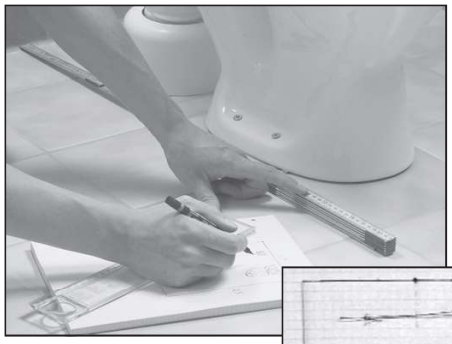
Cable	DTIF
Type	Twin conductor with screen
Voltage	230 V AC
Effect	100 W/m² to 150 W/m²
Dimension (W x H)	460 mm x 3 - 3.5 mm
Cold tails	4.0 m, 1.0 mm² plus screen

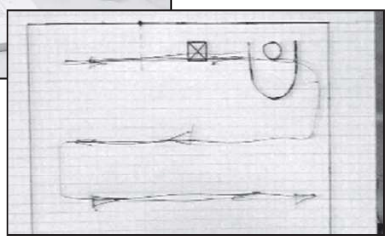
Connections

Live - Black
Neutral - Blue
Earth - Screen

CE

Installing the Devimat™





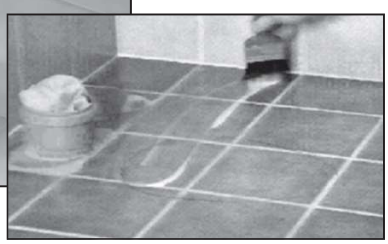
1. Draw up a plan of the room and calculate the free floor area. Use the plan to work out how to lay the mat evenly across the floor and show the location of the cold tail (where the mat starts), floor sensor and connection box. The Devimat™ should laid avoiding all floor obstructions and close floor fitting objects like pipes, baths and cupboards. It is acceptable to lay the devimat under suspended cupboards and wash basins.

2. Mark the positions of the floor fitting objects that will be installed once the floor is finished, so when laying the mat these can be avoided.

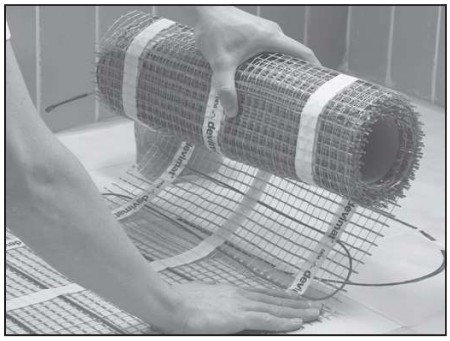
3. Each mat is supplied with a piece of 10mm flexible tubing (only one tube is required for each thermostat), this is for the floor sensor, so that in the unlikely event that the sensor fails, it can be easily removed and replaced without lifting the floor.
In some situations a small channel may have to be made in the floor to accommodate the tubing. If so, cut a channel from the thermostat position approximately 20-30cm across the floor.

It is important that the channel is positioned such that it lays between two heating wires and not across them and not above heating pipes below the floor. The end of the tubing in the floor is sealed with tape to prevent adhesive entering the tube.

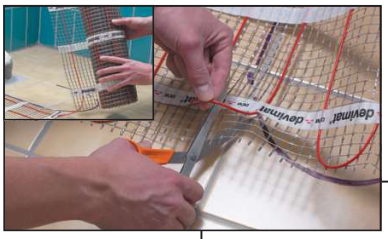
4. The existing floor should be prepared as normally required for tiling, this may include cleaning and removing all loose particles, removing any sharp protrusions that may cause damage to the heating wire, priming the floor surface and bracing a timber floor with WBP ply-for professional guidance refer to your adhesive manufacturers recommendations.



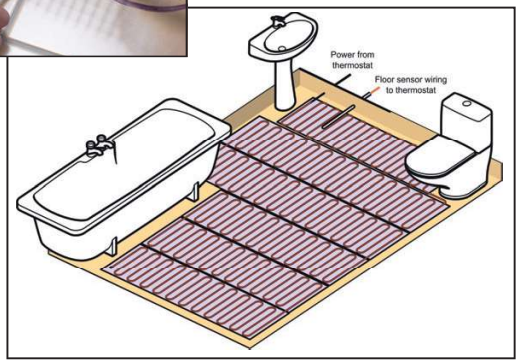
5. Before laying the mat should be tested-see page 7.



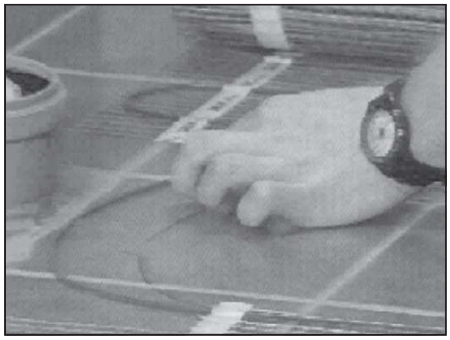
Remove the plastic outer and place the cold tail of the mat at the connection point. The Devimat™ has a self-adhesive backing, lay this to the floor and roll the mat out, if necessary the mat can be laid with the cable face down. In situations where the mat has to be turned over it can be secured using Devipins, hot glue gun (taking care not to damage the heating cable), staple gun or double sided tape.



6. When the Devimat™ reaches the end of the run, simply cut the grey mesh (NOT THE RED CABLE) and turn the mat, positioning the next piece beside the first. When cutting and turning the mat ensure there is a 50mm gap between the cable loops. To avoid risk of damage at later stage do not lay the mat where objects will be put onto or fixed to the floor.



7. If required, the cable can be removed from the mesh and loops formed manually, but ensure the cables are spaced the same distance as those on the mat.

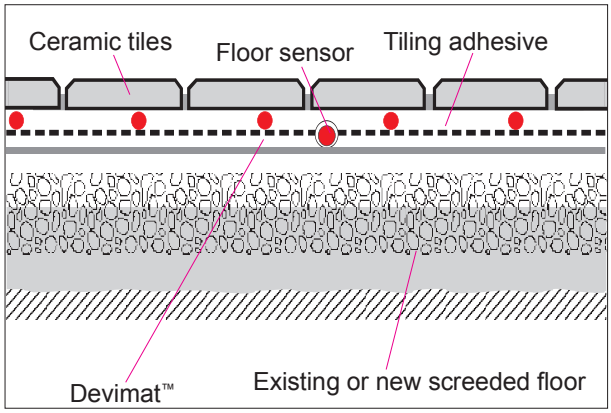


- The devimat™ must NOT be installed across two or more rooms
- The heating cables (RED CABLE) must not touch or cross each other.
- The heating cables (RED CABLE) must not be CUT.
- All the red heating cable must be within the floor.

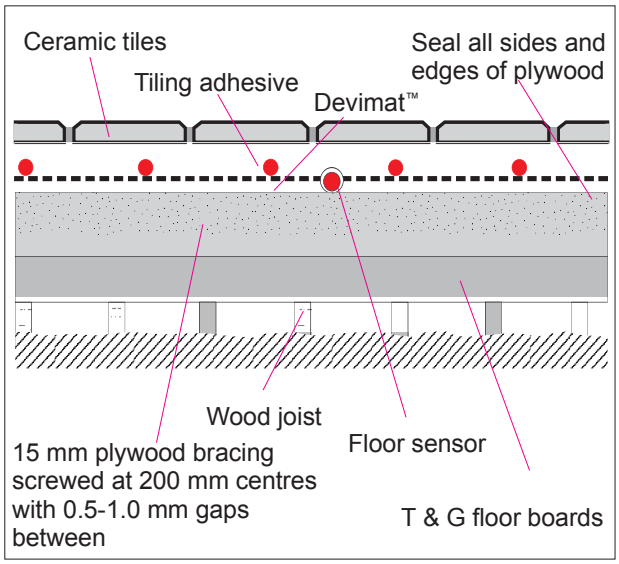
8. The mat should be tested-see page 7.
   The mat can now be covered in one of two methods-
   Concrete and wooden floors using flexible tile adhesives
   Working with a width of devimat at a time, apply flexible tile adhesive through the mat with a rubber back trowel or similar so that the heating cable is covered, making sure that there are no air pockets. Another layer of adhesive can then be applied carefully using a suitable notched trowel to comb the adhesive before applying the tiles.

   Concrete and wooden floors using self-levelling compounds
   An alternative method is to cover the devimat with a suitable self levelling/ latex type compound. This product will find its own level giving you a flat surface to then apply a layer of flexible tile adhesive using a suitable notched trowel to comb the adhesive before applying the tiles.
   The mat should be tested-see page 7.

Installing the Devimat™ on concrete floors



Installing the Devimat™ on timber floors



Flooring note:

Whichever floor covering is being used with the Devimat system, it must be covered with a latex/adhesive covering before the floor finish is laid, the suitability of which should be checked for use with underfloor heating with the manufacturer. If using Devimat beneath wood laminate flooring, you must only use the thin foam type sound-deadening layer, this must not exceed 3mm.