

HEATSAFE INSTALLATION GUIDE

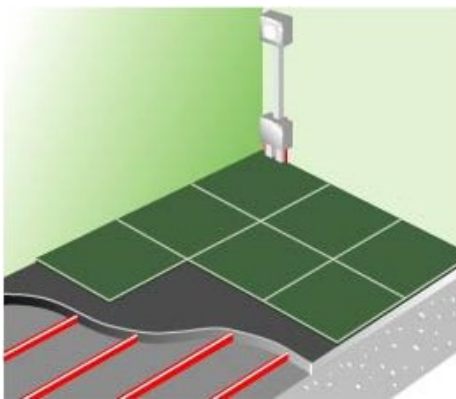
Step by step guide for HeatSafe Self Regulating Heaters

HeatSafe Self Regulating heating cable is inherently safe and cannot overheat or burn out. For this reason it is safe to install the heating cable both within a screed or wooden floor construction.

For Screeded floors

1. Lay fixing band provided at approximately 50 cm apart. Fixing band is provided to simply hold heating cable in place.
2. Pre-determine location of thermostat / junction box.
3. Laying of heating cable should commence at thermostat / junction box point.
4. Allow approximately 5 cm from perimeter, and begin to loop heating cable back and forth at required pitch. (Pitch determined within design specification). Cable should terminate back to the thermostat / junction box point to achieve maximum circuit lengths.
5. Place thermostat sensor within protective tube provided and between cable loops, but not touching heating cable at any point.
6. Cable should return to thermostat / junction box to ensure maximum circuit lengths are achieved. A separate termination instructions is provided with each kit.
7. The heating cable is connected in parallel within the junction box. To achieve this the conductors at each end of the cable need to be connected within the junction box to form two loops. One loop is connected to the live terminal and one loop to the neutral. It is very important to check that there is **continuity** within the loop and the conductors have not been crossed.
7. Lay floor screed ensuring heating cable is completely covered.

Typical Concrete Floor Construction



HeatSafe Assembly Kit

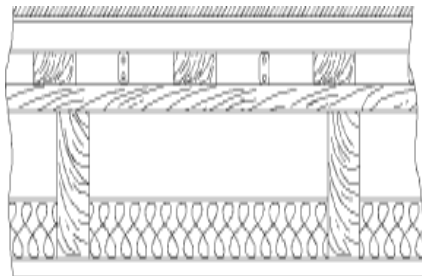


- Please note the thermostat can control up to 80 m of Heat Safe cable when installed in concrete. For areas requiring additional circuits a contactor will be needed, which should be supplied and fitted by a suitably qualified person.
- **We recommend the use of a core balanced RCCD/MCB protection will all under-floor heating systems.**
- Warmfloor Solutions promotes energy efficiency and therefore recommends all floor areas are suitably insulated.

For Wooden Floors

1. Pre-determine location of thermostat / junction box.
2. Ensure floor area is clean and free of any dust or ingress.
3. Laying of heating cable should commence at thermostat / junction box point.
4. Heating cable can be laid directly onto existing wooden floor and is looped back and forth within battens. Notch through battens to gain access to each section (OR) Heating cable to be laid directly onto insulation which may be placed between battens and again notch through battens to gain access to each section.
5. Cable pitch is determined as per the design specification provided.
6. Cable is held in place with aluminium fixing.
7. Cable should return to thermostat / junction box to ensure maximum circuit lengths are achieved. A separate termination instruction is provided with each kit.
8. The heating cable is connected in parallel within the junction box. To achieve this the conductors at each end of the cable need to be connected within the junction box to form two loops. One loop is connected to the live terminal and one loop to the neutral. It is very important to check that there is **continuity** within the loop and the conductors have not been crossed.
9. Preferred floor finish can now be laid.

Typical Wooden Floor Construction



Floor Finish
Wooden Batten
Floor Board
Floor Joist
Insulation

- Please note the thermostat can control up to 80m of Heat Safe cable when installed within a wooden floor construction. For areas requiring additional circuits a contactor will be needed, which should be supplied and fitted by a suitably qualified person.
- **We recommend the use of a core balanced RCCD/MCB protection will all under-floor heating systems.**
- Warmfloor Solutions promotes energy efficiency and therefore recommends all floor areas are suitably insulated.