

Thermonet Electric Underfloor Heating - The do's and don'ts

If you've never installed Thermonet electric underfloor heating before it can seem complicated and very technical.

Thermogroup UK's basic guide to the "Do's & Don'ts" of electric underfloor heating is designed to help you avoid some of the pitfalls when installing a system for the first time.

You should have your system specified by a member of our expert team and make sure you read and pay attention to all of the necessary instruction guides and regulatory literature in full before you start your installation.

Do's

- ✔ Read all instruction guides in full before commencing installation.
- ✔ Remove the protective film before installing Thermonet underfloor heating mats.
- ✔ Ensure all heating cables and cold tail connections are fully embedded within a layer of flexible tile adhesive or levelling compound.
- ✔ Lay thermonet underfloor heating mats wire side down to protect the heating cable.
- ✔ Observe and adhere to electrical guidelines and IP ratings when placing your thermostat in bathrooms.
- ✔ Make sure your underfloor heating circuit is protected by a suitably rated RCD.
- ✔ Check with your flooring manufacturer for compatibility with electric underfloor heating.
- ✔ Use a Thermogroup UK floor sensing thermostat to control your system.
- ✔ Complete your online warranty registration within 60 days of purchase date.
- ✔ Ensure all earth leads are connected to the mains earth.
- ✔ Check with your floor finish and adhesive/grout manufacturer for recommendations on drying times and maximum floor temperature.
- ✔ Connect multiple underfloor heating mats in parallel, using an accessible electrical marshalling or junction box.
- ✔ Ensure that a heat loss calculation is carried out and the designed heating output is achieved for primary heating applications.
- ✔ Ensure the installer completes the customer handover form in full before leaving the site.
- ✔ Follow the complete test procedure and record the results on the customer handover form.
- ✔ Use econoboard insulation where required to boost the efficiency of your underfloor heating system.
- ✔ Install the floor sensor in a conduit to facilitate easy replacement and maintenance, if required.
- ✔ Ensure all electrical work is carried out and tested by a qualified electrical professional.
- ✔ Ensure all adhesives, levellers and grouts are suitable for use with electric underfloor heating.
- ✔ Ensure the floor temperature sensor probe is installed in a conduit and positioned centrally between 2 runs of heating cable, in a representative area of the floor.

Don'ts

- ✘ Don't cut or shorten the heating cable!
- ✘ Don't leave any excess heating cable exposed or coiled under kitchen units, fixtures etc.
- ✘ Don't allow heating cables to touch or cross over each other.
- ✘ Don't position temperature sensors near heat influences such as heating/water pipes or large glazed elevations.
- ✘ Don't install anything with a floor mounted mechanical fixing (eg door stops) over an underfloor heating system.
- ✘ Do not connect underfloor heating mats in series!
- ✘ Do not turn on the system until it is fully installed and all adhesives, levellers and grouts are fully cured (you don't need power to test the system).
- ✘ Do not power up the heating system while coiled or in free air.
- ✘ Don't directly cover a working underfloor heating system. Air must be allowed to circulate over the floor. Any permanent furniture must be on bun feet or similar.
- ✘ Do not strain or bend the cold tail connections.
- ✘ Do not attempt to carry out any electrical work if you are not a fully qualified electrician.
- ✘ Do not install insulation board over an electric underfloor heating system.
- ✘ Do not space heating cables any less than 50mm apart.

Please note: This document is a quick reference guide only and does not replace the installation guide or regulatory literature. It is the installers responsibility to ensure the system adheres to all current electrical, building and any other relevant regulations.

Got a question or want to speak to our team about your electric underfloor heating project?

Get in touch with our experts today

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