

Hurston Mill, Sussex Underfloor Heating System



6mm Red In-screed
cable system



West Sussex



NGT programmable
thermostat timer

A heating solution for a home without mains gas.

Heat Mat's technical team were approached to specify and oversee the installation of underfloor heating for an extension at a period Mill in Sussex. The property is not on mains gas, therefore an energy-efficient electric system was required as the sole source of heating. To ensure no additional build height was added and keep walls free from obstructions, Heat Mat's 6mm In-screed cable was installed in the dining room and 200W heating mats in the wet room.

The Goal

The owners of this idyllic rural home were granted planning permission for a new extension adjacent to their character property. Plans for the extension, to house a new dining room and wet room were drawn up, but how to heat it was posing a challenge.

The homeowners wanted to utilise all of their wall space and prevent restrictions to the layout of their furniture, so panel heaters were not a viable option. It was important to keep the purchase and installation costs down and to ensure minimal disruption occurred to the on-going building work.

They consulted their chosen contractors, Arun Builders, who recommended Heat Mat. As the property is in an area without mains gas, a wet system wasn't an option, and would have been far more expensive to install. Heat Mat's technical experts were asked to specify an energy-efficient system for the extension.

The Solution

It was important to have a fast reacting system in the wet room, to rapidly heat the space. In the dining room the requirement was for a sole source of heating to be installed, allowing the family to eat, and entertain guests in the room.

Technical experts from Heat Mat worked with the builders to design a solution suited to the power available on site while maintaining the aesthetic integrity of the building.

Heat Mat specified their low cost and fast-to-fit 6mm Red In-screed heating cable for the dining room, controlled by the intelligent digital NGT thermostat

The 6mm Red In-Screed heating cable was cable-tied directly onto reinforcement fabric ensuring a speedy installation. The screed bed above the heating cable will then be charged up with heat and provide a very stable temperature.

In the wet room area Heat Mat specified their fast reacting 200W/sqm heating mats and recommended installation directly onto 10mm thermal insulation boards to speed up the warm-up time and maximise energy efficiency.

The Result

Electric underfloor heating was the ideal choice, especially in this off-gas location. Installing one of Heat Mat's high-quality electric underfloor heating systems ensured no additional build height was added and the process was efficient and cost-effective. On this site the specified products were fitted in less than half a day with Heat Mat's technical team there to supervise.

The result is a beautifully warm dining room, which can be furnished as desired without having to work around radiators or panel heaters. In the wet room area the heating responds rapidly, achieving a warm floor in under 30 minutes. The owner was amazed at how quickly the 6mm cable was installed.

The homeowners are planning to install photovoltaics in the future. Once installed a PV system will be capable of powering the underfloor heating utilising 'free' on-site generated electricity. The electricity will charge up the screed bed during the day, releasing heat at night when it is most needed.



Date Installed:
July 2014

Location:
Hurston Mill, West Sussex

Client:
Mr and Mrs Whitbread

Installer:
Arun Builders, West Sussex

System Specifications:

- 6mm Red In-screed heating cable
- Reinforcement fabric
- 200W heating mats
- 10mm insulation boards
- NGT programmable thermostat timer

Installation:

We would recommend a team of two people fitting the system if possible, although it can be fitted by a single installer, it is far simpler to fit with two people working at each end of the room. It makes installing onto fixing strip or reinforcement fabric seem like a more manageable task!

About Heat Mat

With more than 1,200,000m² of underfloor heating installed and 20 years' experience of the UK underfloor heating market, you can rely on Heat Mat to understand your needs and supply the products to satisfy your requirements. This is why we are the Professional's Choice, the number one underfloor heating supplier to the professional installation market.



Contact us:

01444 247020
sales@heatmat.co.uk

www.heatmat.co.uk Or
www.iceandsnowsystems.co.uk

Heat Mat

Underfloor Heating

Heat Mat Limited, Ashwyn Business Centre,
Marchants Way, Burgess Hill, West Sussex, RH15 8QY