

# Pengersick Castle, Cornwall Underfloor Heating System



200W Underfloor heating  
system



Praa Sands  
Cornwall



NGT programmable  
thermostat timer

## The Goal

Pengersick Castle in Praa Sands, Cornwall was undergoing essential refurbishment work to improve facilities for visitors at ghost nights and historical talks.

The Pengersick Historic and Education Trust who oversee the castle, decided to install underfloor heating to take the chill off these events for guests.

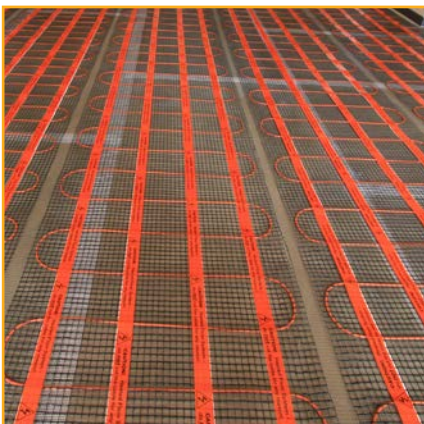
## Bespook Heating

Rumoured to be one of the country's most haunted historic properties, Pengersick Castle attracts ghost hunters (including the TV programme *Most Haunted*) and historians.

The castle's tower dates back to approximately 1500 and what remains is part of a large mansion that existed in the 12th century.

As part of vital restoration work, the kitchen, often used for the ghost nights and historical talks, required improvement.

Due to the age of the building heaters could not be placed onto the granite walls so the castle's owners commissioned contractor GN Electrical of Porthowan, Truro to install an underfloor heating system beneath slate floor tiles to improve visitor's comfort.



The historic kitchen floor had been treated for water penetration and was in a poor condition following little restoration over the years.

Heat Mat specified a 200W heating mat system for the high heat-loss space. GN Electrical installed the system which was supplied by G&R Electrical Wholesale in Redruth.

The mats were laid onto 20mm thermal insulation boards ensuring maximum energy efficiency and a faster warm-up time.

Heat Mat's flexible self-levelling compound was then poured on top to allow the slate floor tiles to be fitted onto an even surface.

The system is controlled by a 16Amp programmable NGT thermostat measuring energy consumption in pounds and pence.



## The Result

The new underfloor heating system has taken the chill off events at Pengersick Castle, but has not prevented those mysterious cold shudders the property is well known for!



**Date Installed:**  
January 2014

**Location:**  
Praa Sands, Cornwall

**Client:**  
Pengersick Castle Trust

**System Supplied Through:**  
G&R Electrical Wholesale

**Installer:**  
GN Electrical, Truro

**System Specifications:**

- 200W/sqm underfloor heating mats
- 20mm thermal insulation boards
- Heat Mat flexible levelling compound
- NGT programmable thermostat timer

## About Heat Mat

With more than 1,000,000m<sup>2</sup> of underfloor heating installed and 19 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

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# Heat Mat

## Underfloor Heating

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