



Ti Thermal Imaging LTD

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THERMOGRAPHIC INSPECTION FOR:

UNDERFLOOR HEATING PIPEWORK

LOCATION:

TI SITE 7 SAMPLE REPORT

DATE:

19/11/10

TI 14449



Report generated by Ti Thermal Imaging LTD.

Company Registered in England: 04450573 VAT No. 828 6288 87





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Introduction to your Ti Thermal Imaging LTD risk management thermographic inspection

Inspection Overview

This investigation is employing the use of thermographics and infra-red in order to assess the underfloor heating supply and return pipes with a view to exposing where the pipework runs lay and if there are any leaks or breaks

Theory

Hot water leakage offers a unique opportunity to find anomalous areas which could be attributed to leakage within the central heating system. Temperature differential is significant in that central heating systems often operate in excess of 50°C. This enables the pipework to be seen clearly through the floor and areas of temperature anomaly can be found and investigated further for water leakages.

Electrical systems or matting can sometimes become damaged and it is possible to detect these damaged areas by running a charge through the coil to expose the break. This is done using a generator power source separate from the mains supply.

Inspection methods

Initial visual inspection of the site took place in order to familiarise with any irregularities or access problems. The underfloor heating pipework inspected in this inspection was in the kitchen area, the wine cellar area, the main hallway area and the master ensuite bathrooms. The heating system was activated upon arrival and the inspection was carried out when suitable thermal transfer through the floor was found so that the pipework signatures are clearly visible.

Reporting

A complete baseline archive has been compiled of all areas inspected with distance measurements.

- 1-Critical
- 2-Serious
- 3-Important
- 4-Minor

Thermographic Inspection Specification:

1. IR camera: Flir ThermoCAM P-series
2. Software: InspecTrend
3. Thermographer: ITC Level II
4. Extech Instruments for humidity/wind speed etc
5. Leico laser distance measurements



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