

Infrared Thermography

Supplementary Information



This sheet has been prepared to provide supplementary information in support of a fee proposal for an infrared thermographic survey. The sheet contains important information relating to survey procedures and the site requirements to facilitate a successful survey.



High resolution, infrared thermal imaging camera

Survey methodology

The methodology adopted by Four Walls is based upon BS EN 13187:1999 *Qualitative detection of thermal irregularities in building envelopes – infrared method*. This sheet does not relate to other types of thermographic survey.

Survey requirements

A temperature difference of 10 °C across the building envelope is usually required for a 24 hour period prior to and during the survey. Space heating provision is the responsibility of others and should be provided by the permanent heating system: temporary heating is not usually sufficient to warm the structure/fabric.

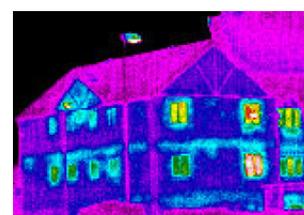
Ideally the survey should be undertaken during the night and in the heating season (October to April), where adequate internal/external temperature differentials normally exist. This is particularly important for external surveys such that the effects of solar gain on the façades are minimised.

Weather should be dry and without strong winds as these conditions affect the surface temperatures of the building.

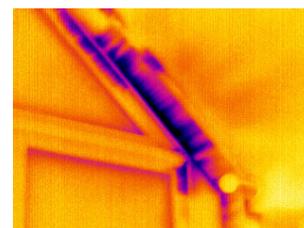
Survey procedure

Surveys will usually be undertaken from both inside and outside the building depending on viewing angles and access for the survey operative. To undertake a survey from inside the building, it is essential to have generally unrestricted views of the external wall areas and the underside of the roof assembly. If suspended ceilings are fitted below roof level, these will need to be removed by others prior to the survey.

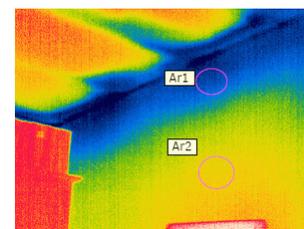
If an external survey of the roof is necessary, a hydraulic platform will be required to provide adequate viewing angles across the roof areas. The hydraulic platform will need to be moved around the building during the survey to ensure that the whole of the roof area(s) can be adequately surveyed. Above ground access **must** be provided by others. Suitable equipment and a qualified operator should be provided at no cost to Four Walls.



Thermal bridging at floor junctions and window reveals



Air leakage around window



Reduced insulation effectiveness at cavity head / eaves junction

Need anything else...

Whatever the size of project, Four Walls can offer a full design advisory service or simple guidance on appropriate building services and fabric solutions. Our aim is to optimise the energy performance of buildings and to ensure that they provide a healthy environment for their users.

For further details of the services that we can offer, please contact us:

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