

# Thermal Imaging

An important source of information for building monitoring and maintenance.



**Thermal imaging is an effective method of identifying if there are any hidden defects within a building. The use of a thermal imaging camera can identify insulation deficiencies, retained moisture, pipe or flue blockages and so on, all from the temperature differences.**

Not only does this help to identify problems, such as dampness, but it also avoids access problems to overhead ducts or cables, as direct contact is not needed.

Infrared thermography is the process of using a thermal imaging camera to view images of the heat patterns emitted from a surface or surfaces. In context, this information enables us to identify particular patterns of heat radiation that indicate faults or areas of interest.

Whether it be for insulation continuity in Part L2(b) of building regulations, paths of air leakage, insulation checks or underfloor heating

inspections for either commercial or domestic projects, we have a survey to fit your requirements. Our integrity is guaranteed to bring you true results.

- Damp insulation
- Underfloor heating pipe location & assessment
- Poor continuity of insulation
- Air leakage
- Damp roofing insulation and leakages

The dynamics behind thermal imaging of flat roofs are essentially the same. Temperature differential allows us to show where flat roofs are leaking or have failing insulation present.

Damp and dry roof insulation have a different thermal mass so by exploiting one of two windows of opportunity to image the roof found at either end of the day, it is possible to locate these areas. As dry roof insulation heats up and cools quicker than damp roof insulation, a temperature anomaly will form in the affected area and it is this area that is most likely to have the problem.

**Kershaw Insulation**

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**@kershawEnergy**



## Evidential Thermal Image Report For Blown Fibre Insulation

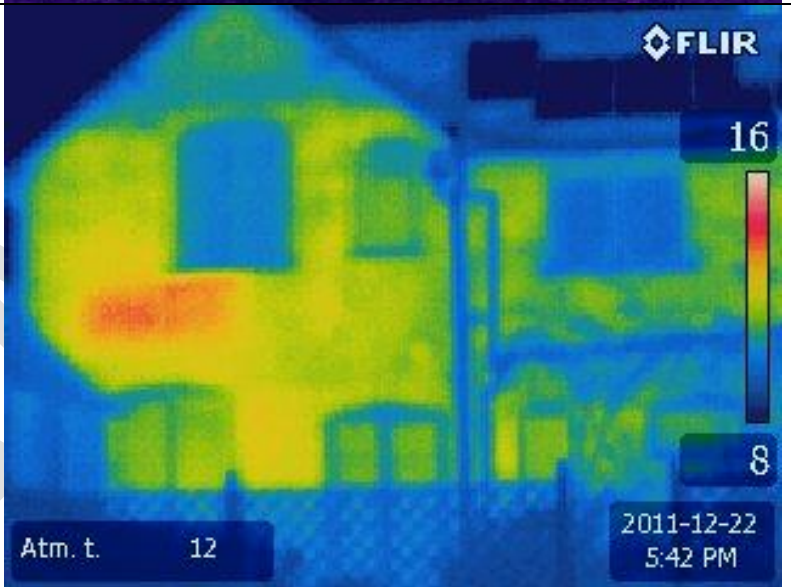
Client	Any Builder 1 Builder Road Cambridge Cb1 1as
Site Address	New Site Cambridge Road Cambridge Cb1 1aa
Survey Date	01/01/2018
Survey Time	16:05
Report Date	02/01/2018
Site Plan If Available	
Plot NO.	63 (or Postal Address)
Building Type	Masonry full fill/Masonry Part Fill/Timber Frame
Built Form	Detached/Semi-detached/Terrace/Flat

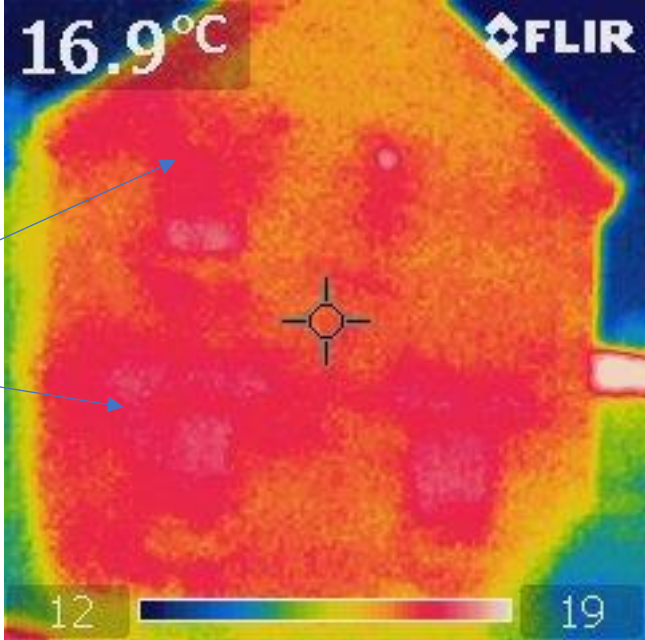
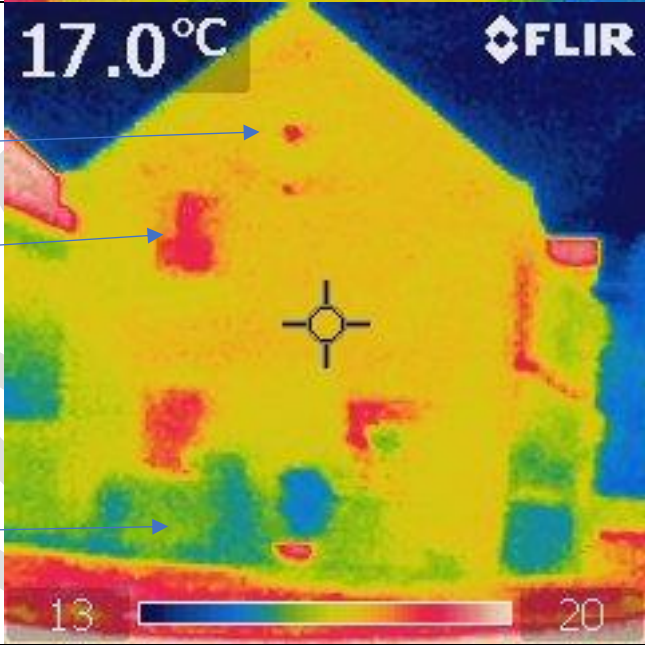
House Ready	Yes/No
240 Volt Supply	Yes/No
Heating System Operational	Yes/No
Plot Warmed For Testing Heating set +10c Of Temp Of The Day & Held For 6 Hours. Site Turned Off 1 Hour Prior To Test	Yes/No
External Temperature	15C
Internal Temperature	27C
Adverse Weather Conditions (describe)	None
Front Of House	

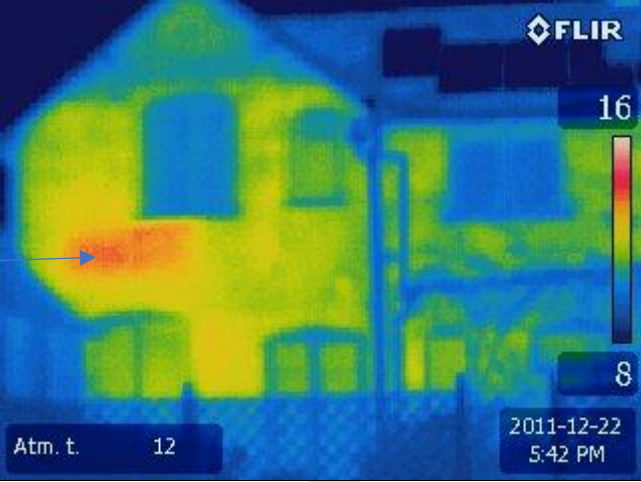
Elevation Thermal Image 1



Elevation Thermal Image 2



<p>Elevation Thermal Image 3</p> <p>Rain Causing Shading</p>	
<p>Elevation Thermal Image 4</p> <p>Alarm Box &amp; Vent Below</p> <p>Windows</p> <p>Vegetation</p>	
<p>Extra Pictures</p>	

<p>Areas Of Concern</p>   <p>Possible Missing Insulation</p>	
<p>Thermal Imaging Camera</p>	<p>Flir BCAM</p>
<p>Serial NO</p>	<p>021215247</p>
<p>Thermal Imaging Engineer</p>	<p>Mat Mills</p>
<p>Comments</p>	
<p><b>No Issue</b></p>	<p>No Significant Issues Observed</p>
<p><b>Minor Issue</b></p>	<p>Survey Suggests A Minor Issue – Further Investigation needed</p>
<p><b>Major Issue</b></p>	<p>Survey Suggests A Major Issue Immediate Remedial Action</p>
<p>Description Of Issue</p>	