

atspaceltd.co.uk

ATSPACE

DELIVERING BEYOND COMPLIANCE

Version 1.0
August 2016

Thermographic Checklist



Call us today on 0800 917 8922
to speak with an adviser or visit
atspaceltd.co.uk

Thermographic Checklist

What is involved?

The survey would aim to be carried out under the recommended environmental conditions (detailed below) this would be subject to weather conditions.

- Images would be captured of each elevation of the building from the outside with assessment/analysis included within the report.
- The building would then be scanned from the inside with images and analysis recorded if anomalies are identified.
- Access and clear working areas will be required, especially if mechanical machinery is to be used to aid the thermographic survey (i.e. in the event of surveying roofing).
- A minimum temperature difference of at least 10 degrees celsius between internal and external areas is required. This may require heating systems to be on for at least 8 hours prior to commencement of survey.
- Survey to be conducted at night or early morning when environmental conditions are suitable and solar loading effects have completely disappeared.



Should you require any assistance with this checklist, or if you would like to hear more about our other building regulation compliance services, please contact us at

info@atspaceltd.co.uk
0800 917 8922

When completed please send to:
ATSPACE, Unit 3 & 4, The Cokenach Estate,
Barkway, Royston, Hertfordshire, SG8 8DL

Recommended Environmental Conditions

- 1 Temperature difference across building fabric $>10^{\circ}\text{C}$ at the time of the survey.
- 2 Temperature difference across building fabric $>5^{\circ}\text{C}$ for 24hrs preceding the survey.
- 3 External air temperature to be within $\pm 3^{\circ}\text{C}$ during the survey.
- 4 External air temperature to be within $\pm 10^{\circ}\text{C}$ for the preceding 24hours.
- 5 Surfaces free from solar gain.
- 6 Wind speed to be less than 10mph.
- 7 No precipitation just prior to or during the survey.
- 8 Ensure all building surfaces to be inspected are dry.

The survey will generally be undertaken following completion of the building when site risks are substantially reduced. It is important however that the survey is undertaken in a safe, planned and methodical manner.

The survey requires the consultant to view an image of the building through the view finder on the thermographic camera. Even though it is likely that the floor surface will be level and clear of obstruction, care should be taken to only view the image in the camera display whilst at standstill. If a mobile survey is required, due to the expanse of the subject under review, then extreme care is required and the surveyor must be attended by an assistant acting as banksman.

As the survey will generally be undertaken externally at night, care must be taken to ensure that high-visibility clothing is worn. Assistance must be sought where risk of collision with vehicles exists.

Roof surveys undertaken by walking over the surface of the roof will only be undertaken under the accompaniment of an assistant or the client's representative. Safety harnesses must be worn as required.

During the survey the consultant will collate the relevant information, recording the thermographic images, photographic images and taking notes to enable a report of the findings to be compiled on return to the office.

Please tape all ventilation within the build as this will enable the engineer adequate time on site.

Ventilation includes intermittent extracts, mechanical extractors, air bricks, fire vents, chimney openings, trickle vents, roof window vents, inlet – outlet ductwork.

Ensure the building envelope is complete. All Glazing, external doors and cladding to be complete.

Any Penetration made through the external envelope to be sealed.

Responsibilities

- 1** The Consultant will be responsible for the safe conduct of the inspection, and will be responsible for all operatives and equipment in his charge.
- 2** Any accidents, injuries or unsafe conditions on site must be notified immediately to the main contractor.
- 3** Accidents and/or injuries sustained by ATSPACE engineers must be recorded and notified to the main contractor. Notification under RIDDOR must be arranged by the consultant through the main contractor, should such situations arise.