

Roof & Building Leak Detection & Prevention

GUIDANCE & INFORMATION NOTE NO. 15

THERMAL IMAGING



What is Thermal Imaging

Thermal Imaging is a non-invasive imaging technique that detects minute differences in surface temperatures. A coloured visible image of the surface being surveyed is produced. Interpretation of the images can give invaluable information for tracing the causes of leaks or for finding areas of damp or wet insulation within roofs or behind curtain walling/cladding and air and water leakage pathways through them.

How it works

A camera lens focuses the infrared light emitted by all objects within its field of view. The focused light is digitally processed producing a **thermogram**. The thermogram is processed as a visible image depicting the different temperatures as different colours on the image. Temperature differences of as small as 0.2°C can be detected.

What it can find

Entrapped Water: any areas where the underlying construction is damp or wet can be accurately mapped out.

Thermal Performance: heat transmissions into or from within a construction can be traced identifying cold bridging and insufficient or missing insulation.

Air & Water Leakage Pathways: air or water leakage into a construction leaves a unique signature on a Thermagram that enables tracing of a potential leak.



ERC offer a range of services, including

- Electronic Integrity/Leak Testing.
- Building Envelope Leak Investigations.
- Thermal Imaging.
- Roof & Floor Dewatering.
- Expert Witness.
- Roof Surveys, Defect & Maintenance Schedules.

i ERC is an independent specialist Roofing Consultancy and Testing Services Company. ERC work predominantly throughout the UK* providing specialist specific and/or combination testing regimes to quickly and accurately determine the causes of leaks through any part of the building façade and to identify areas of retained/entrapped water within the construction to main and roofing contractors, building owners and developers in both the commercial and domestic markets. **for inquiries about procuring our services outside the UK please contact head office.*

Energy Roofing Consultancy Limited

14 Hawks Hill House
Guildford Road
Leatherhead
Surrey KT22 9GS

Tel: 01372 388358

Email: info@energyroofingconsultancy.co.uk

Web: www.energyroofingconsultancy.co.uk