

Roof & Building Leak Detection & Prevention

GUIDANCE & INFORMATION NOTE NO. 7

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

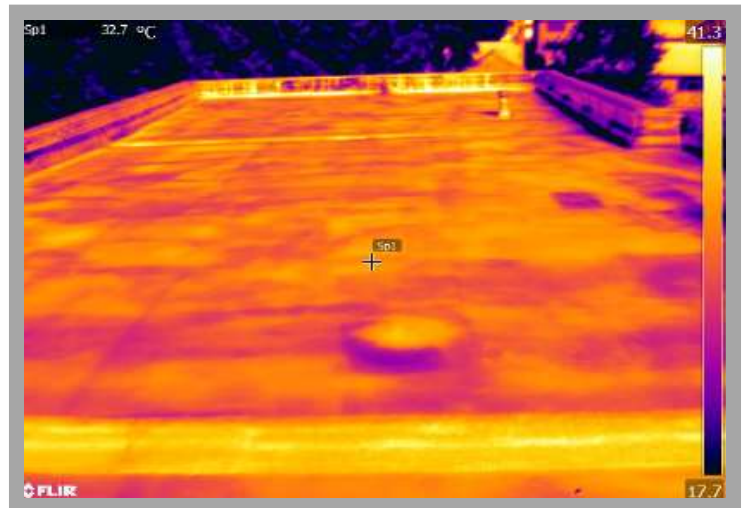
A camera lens focuses the infrared light emitted by all objects within its field of view. The focused light is digitally processed producing a **thermogram**. The thermogram is processed as a visible image depicting the different temperatures as different colours on the image. Temperature differences 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 Thermogram that enables tracing of a potential leak.



Tyrrell & Jenkins Consultancy (TJC) offer a range of services, including:

- Electronic Leak Testing • Leak Investigations
- Floor & Roof Vacuum Dewatering.
- Thermal Imaging. • Expert Witness.

I TJC is an independent specialist Roofing Consultancy and Testing Services Company. We work throughout the UK providing non-destructive electronic leak testing, building envelope leak investigations, independent, specialist roofing technical advisory services to main and roofing contractors, building owners and developers in both the commercial and domestic markets. The company offers an extensive range of testing and investigative surveys that can quickly and accurately identify water entry pathways into and areas of entrapped water within a flat roof construction.

Tyrrell & Jenkins Consultancy Ltd

Tel: 01372 388358 or 01234 853529

Email: info@tandjconsultancy.co.uk

Web: www.tandjconsultancy.co.uk