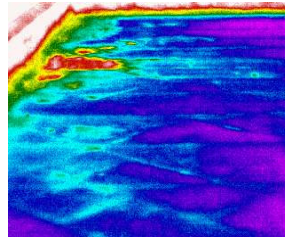
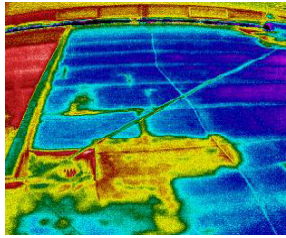


# Insulation Assessment – Flat Roofing



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## Project Outline

IRT Surveys were commissioned by a leading roofing manufacturer to assess the condition of this 6,800m<sup>2</sup> flat roof on a school situated in Blackburn before any specification was proposed to their client.

The main concerns were the continuity of insulation and moisture below the waterproofing system.

The roof system comprised a concrete deck, vapour barrier, 150mm insulation and 2 layers of felt.

For best results, a combination of test methods was utilised. These included Infrared Thermography and Electronic Leak Detection (ELD).

Both tests were non-destructive and didn't invalidate any guarantees. The school remained fully operational throughout the survey as there were no health and safety issues.

By utilising a combination of test methods, the roofing manufacturer was able to not only report on where the membrane was damaged but also the extent of damage caused by the subsequent moisture ingress.

Works were completed in 1 day on site and the report delivered 3 days there after.

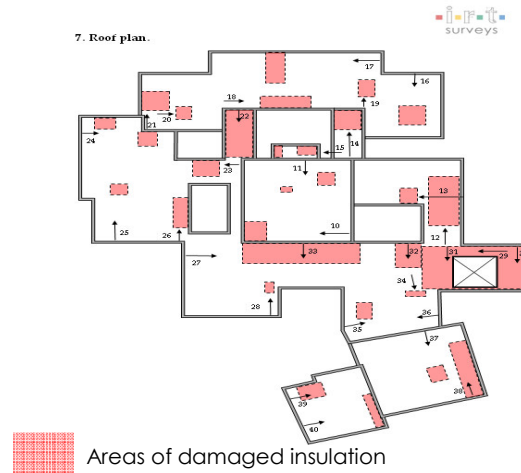
By uploading the report to our restricted client zone on our website, our client could share the data instantly with colleagues around the U.K. and world.

## Summary of Findings

Thermographic results identified 1462m<sup>2</sup> of damaged insulation much of which was found around outlets and adjacent to poor parapet detailing. Electronic leak detection revealed 59 penetrations in the existing waterproofing system within the thermal anomaly regions.

12 core samples were subsequently taken in regions highlighted by the thermographic survey. These findings confirmed the thermographic results were 100% accurate.

7. Roof plan.



## Testimonial

"IRT provide a fast and independent service which has supplied us with invaluable data. This has allowed us to set ourselves apart from competitors when tendering for projects and given our clients confidence when making decisions"

**John Llewellyn, Bauder Ltd.**