Thermographic Roof Leak Survey

Sample Report

October 2009

By

Pixel Thermographics Surveyor

This sample report provides examples of the type of defect we are able to detect using our technology when surveying roof systems to locate water ingress.

Pixel Thermographics Ltd

Tel: 08456 042 703

Web: www.pixelthermographics.co.uk
Email: info@pixelthermographics.co.uk

Information

This Thermographic roof survey was carried out to detect moisture and water ingress within the roof structure of the premises.

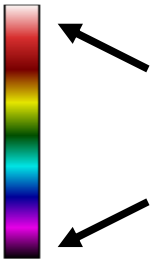
A FLIR Thermacam SC640 was used to capture the thermal data which is recorded within the report.

The following report has been compiled to give the client evidence of any water penetration or ingress within the roof structure.

This report has been compiled in such a way that only the relevant images showing anomalies have been included into its pages. The pages in the report have been designed as single page entries each of which carries its own information.

The job of the Thermographer is to interpret the thermal patterns shown in the images and comment on these for the client.

The thermal images included within the report are shown in a colour palette called 'rainbow' which is good for showing small temperature changes associated with water ingress. You will see by the scale on the right hand side of each image that cold areas are shown to be dark whilst warmer areas are shown to be red or white.



Higher temperatures indicate areas of water ingress

Lower temperatures indicate dry areas of roof

The survey was conducted at a time to allow thermal differences on the surface of the roof to develop which allow the thermographer to identify areas of water ingress or damp.

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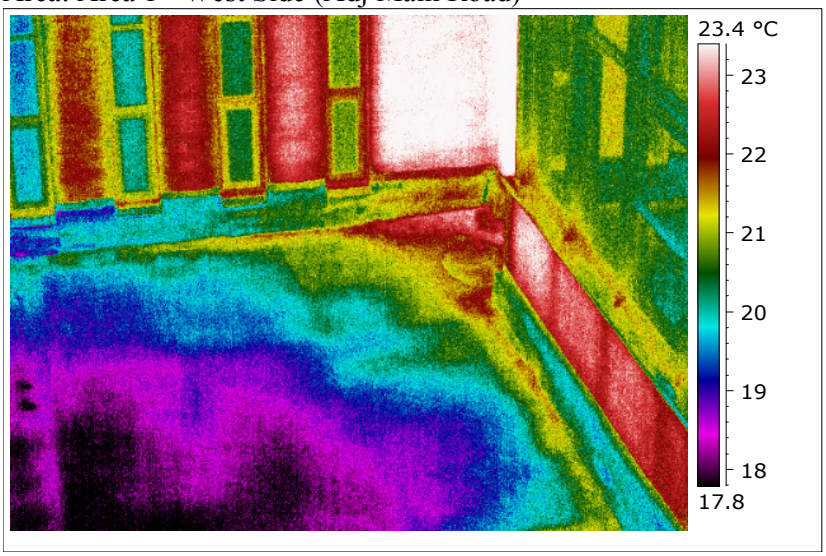
Pixel Thermographics Engineer
ITC Level 2 Certified Thermographic Engineer

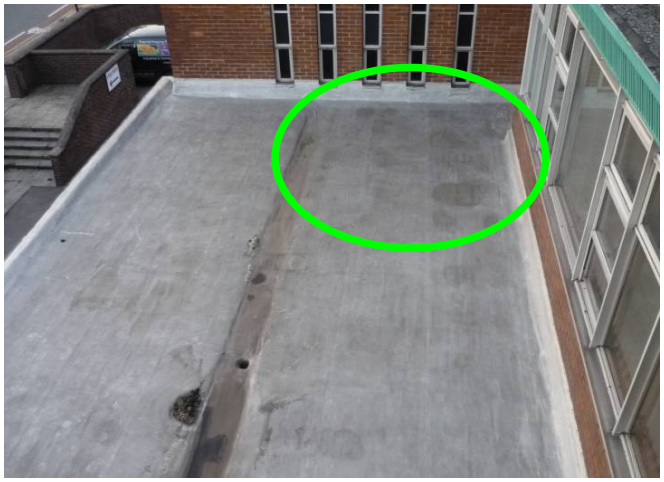
Disclaimer

Any recommendations given in this report are intended as a guide only. By issuing this report neither Pixel Thermographics Ltd or any of its employees make any warranty, expressed or implied, concerning the contents of this report. Pixel Thermographics Ltd cannot accept responsibility for inappropriate actions taken as a result of this report.

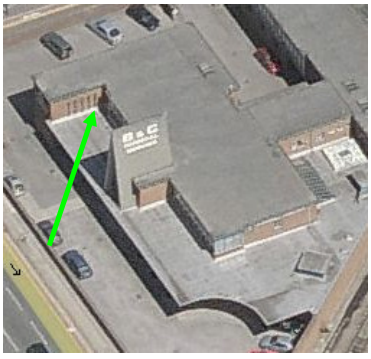
Index of Images

Area: Area 1 - West Side (Adj Main Road)

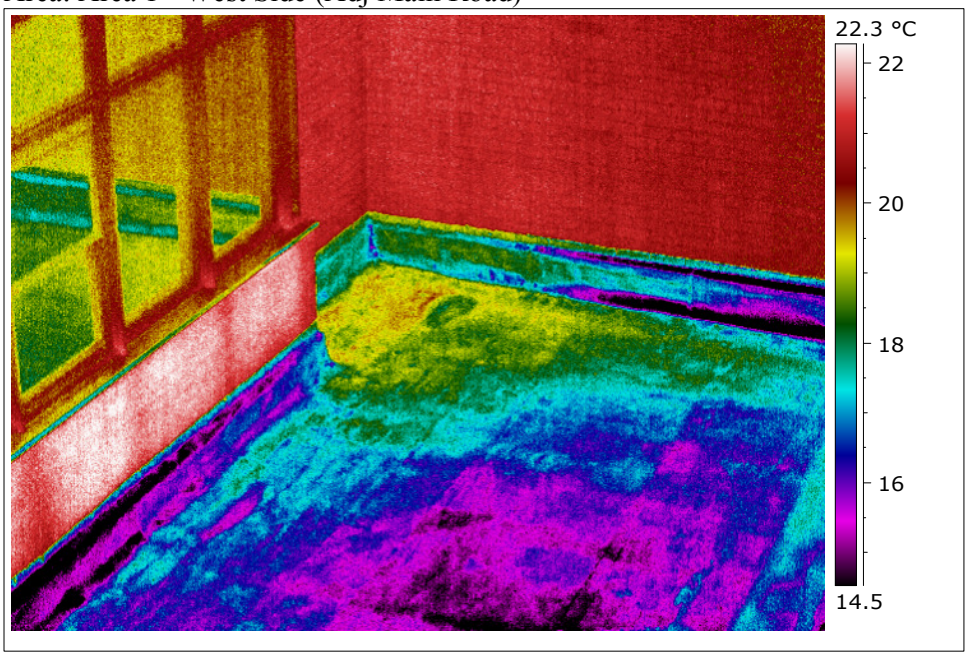




Comment:
The warm area of roof indicates water ingress in this area.
Closer inspection revealed a significant split in the membrane (see photo above right) which is the likely entry point for this water.

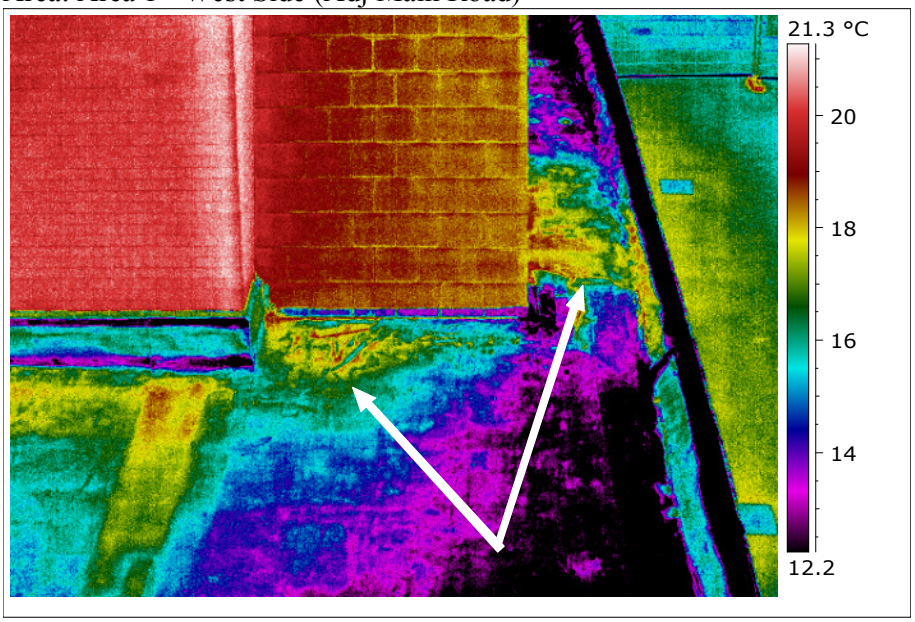


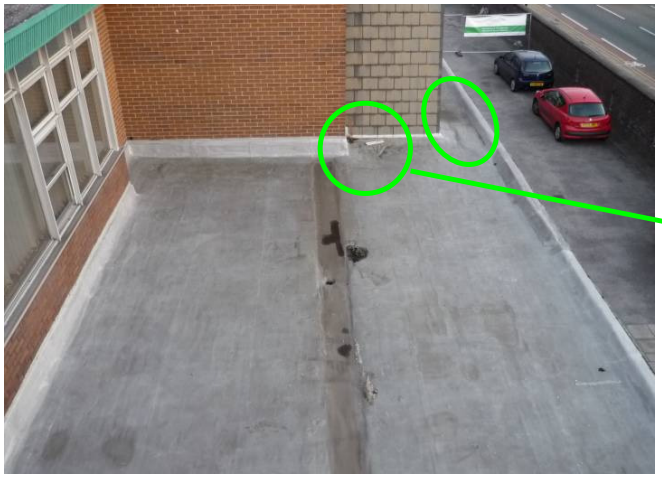
Area: Area 1 - West Side (Adj Main Road)



Comment:
The warm area of roof indicates water ingress in this area which extents into the gulley.
Closer inspection revealed a split in the membrane (see photo above right) at the corner detail which is the likely source of the water.

Area: Area 1 - West Side (Adj Main Road)



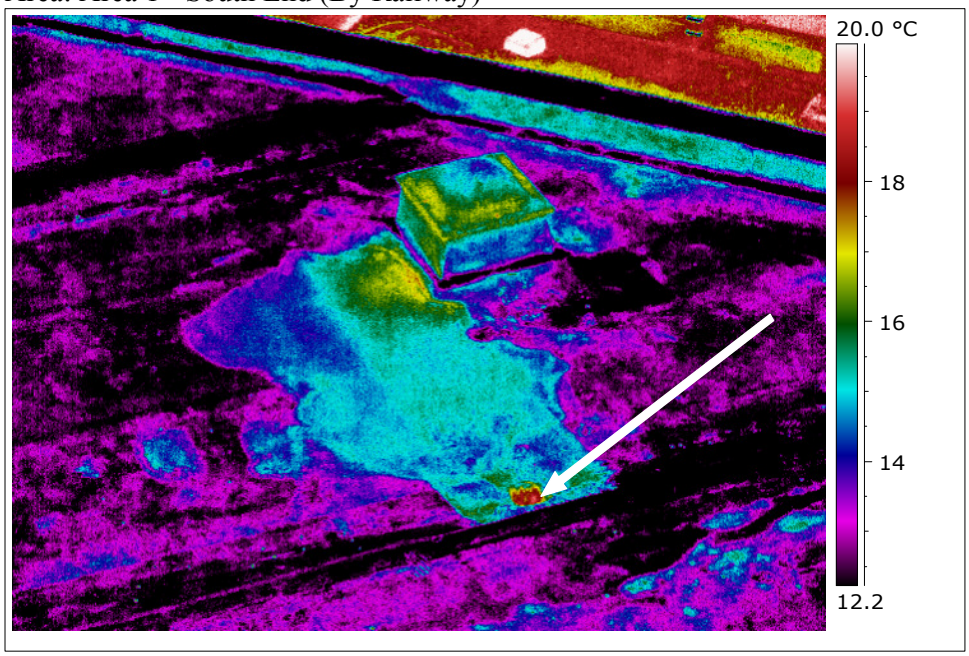


Comment:
The two arrowed warm areas in the thermal image indicate separate areas of water ingress.

Closer inspection revealed that the left hand area is likely to be caused by a rooting plant which has grown in the corner details (see photo above right).

The right hand area of water ingress is covered in more detail on the next page.

Area: Area 1 - South End (By Railway)



Comment:
Warm area indicates water ingress beneath the surface.

Closer inspection revealed a split to the membrane close to the drain outlet (see photo above right) which is the likely source of this water.