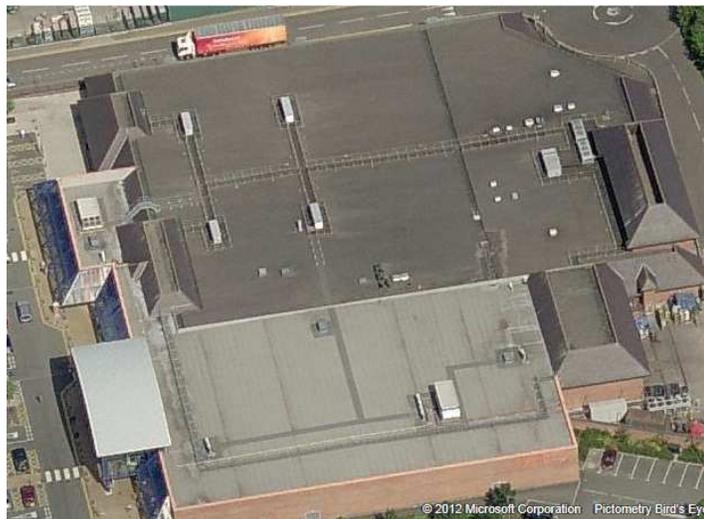


Thermographic Roof Survey

Sample Report

By

Pixel Thermographics Ltd



Pixel Thermographics Ltd

Sunrise House
Hulley Road
Macclesfield
Cheshire
SK10 2LP

Tel: 08456 042 703

Web: www.pixelthermographics.co.uk

Email: info@pixelthermographics.co.uk

Report Details

Client

Address

Contact Person

Contact Person Address

Phone Number

Email Address

Thermographer

Thermographer Certification

ITC Level 2 Certified Thermographer

Survey Equipment

Flir Thermacam SC640 Infrared Camera
Reporter 9.2 Software

Inspection Date

Start Time

18:30

Finish Time

22:30

Environmental Details

External Temperature - Start 22°C

External Temperature - Finish 16°C

Wind Speed - Start 2 mph from the South

Wind Speed - Finish 2 mph from the South

Humidity - Start 54%RH

Humidity - Finish 59%RH

Information

This sample thermographic roof leak survey has been produced to provide clients with a clear example of the quality, style and content of our reports which we produce upon completion of the survey.

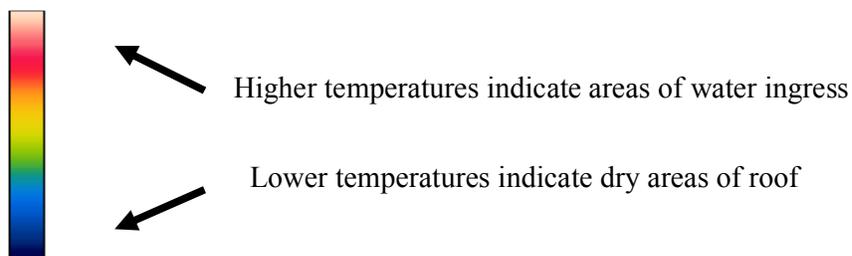
A FLIR Thermacam SC640 was used to capture the thermal data which is recorded within the report.

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 role 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.



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.

.....
Pixel Thermographics Surveyor
ITC Level 2 Certified Thermographic Engineer

Disclaimer

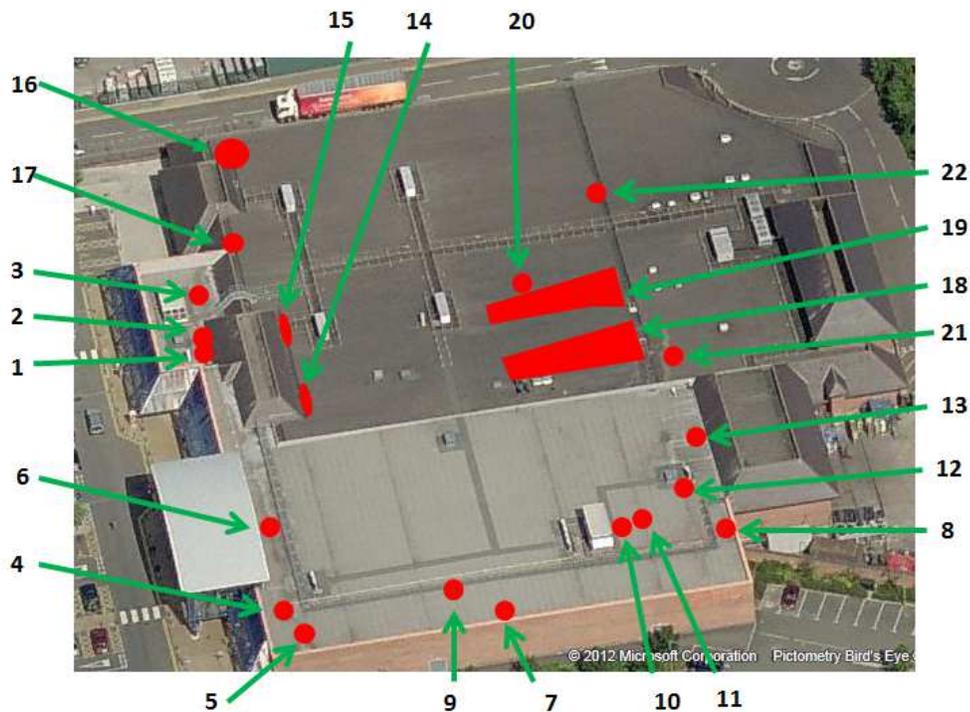
Any recommendations given in this report are intended as a guide only. By issuing this report neither Pixel Thermographics Ltd or any of its employees make any warranty, expressed or implied, concerning the contents of this report. Pixel Thermographics Ltd cannot accept responsibility for inappropriate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

Executive Summary

A thermographic roof leak survey was carried out on the roof system which comprised of 2 distinct areas:

- A single ply Sarnafil membrane roof.
- A lightly ballasted felt covered roof.

The survey has highlighted 22 leak locations on the roof. The image below shows the locations of the leaks on the roof systems

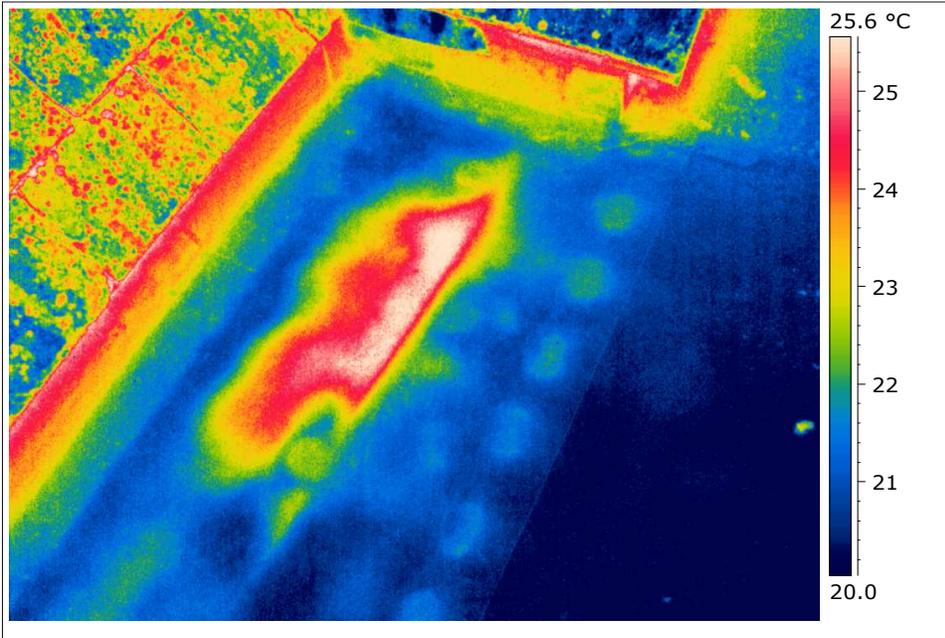


The following pages contain images and analysis for each individual leak.

Index of Images

Area:	Page Number
Leak Number 1	6
Leak Number 2	7
Leak Number 3	8
Leak Number 4	9
Leak Number 5	10
Leak Number 6	11
Leak Number 7	12
Leak Number 8	13
Leak Number 9	14
Leak Number 10	15
Leak Number 11	16
Leak Number 12	17
Leak Number 13	18
Leak Number 14	19
Leak Number 15	20
Leak Number 16	21
Leak Number 17	22
Leak Number 18	23
Leak Number 19	24
Leak Number 20	25
Leak Number 21	26
Leak Number 22	27

Area: Leak Number 1

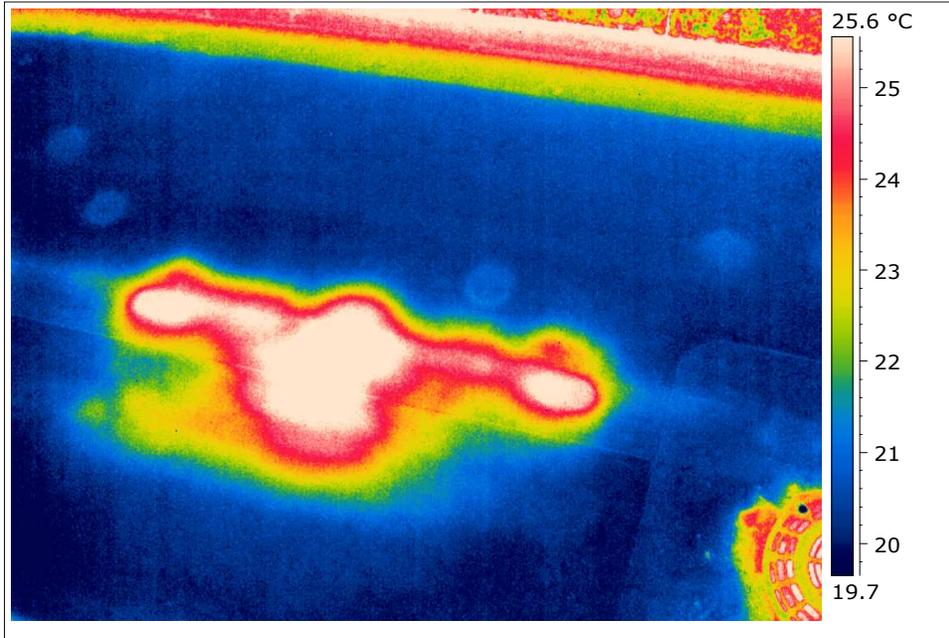


Comment:

The irregular shaped warm area indicates water ingress within the roof system. Closer visual inspection revealed a puncture in the membrane (arrowed) which is the likely entry point for moisture and should be repaired.

See graphic on page 4 of this report to identify location on the roof.

Area: Leak Number 2

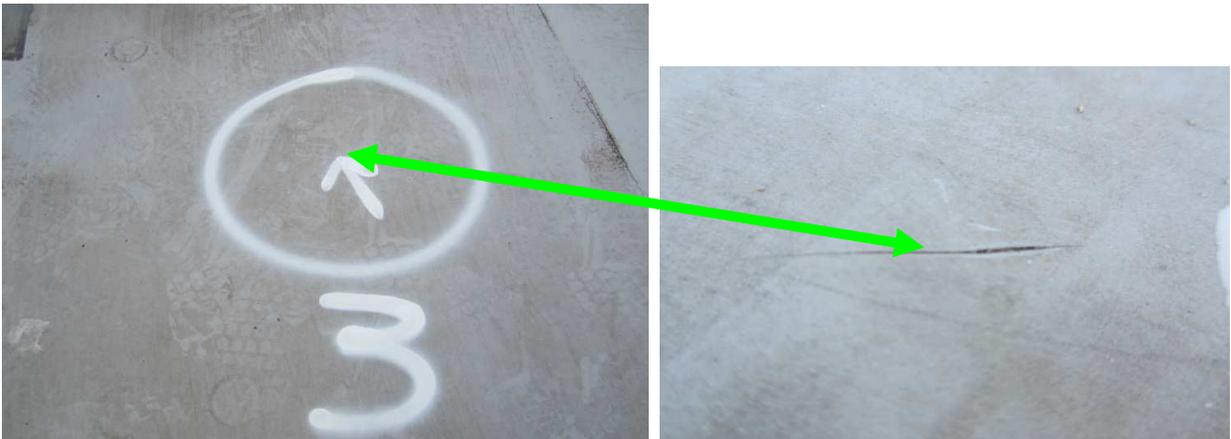
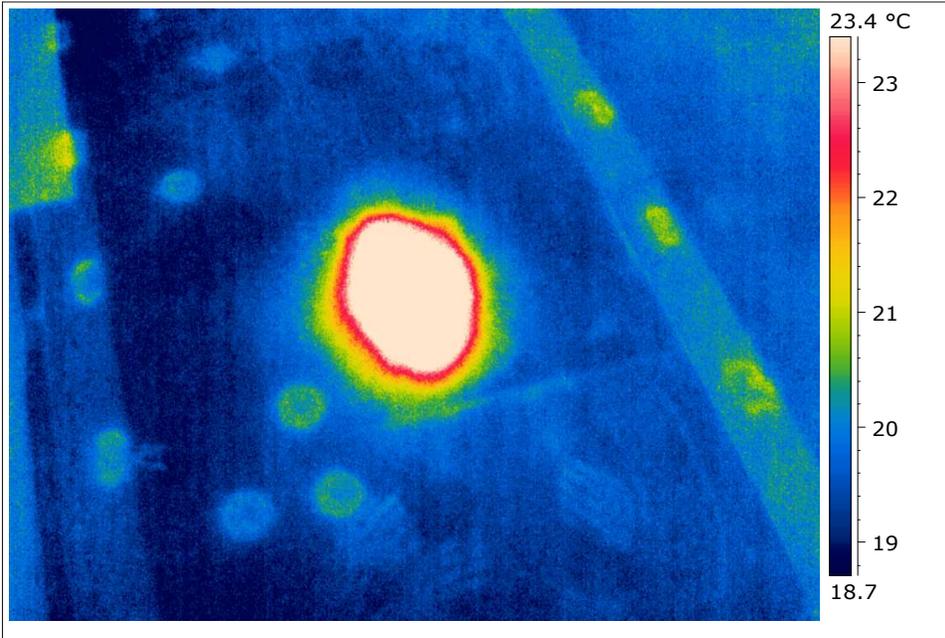


Comment:

The irregular shaped warm area indicates water ingress within the roof system. Closer visual inspection revealed a slit in the membrane (arrowed) which is the likely entry point for moisture and should be repaired.

See graphic on page 4 of this report to identify location on the roof.

Area: Leak Number 3

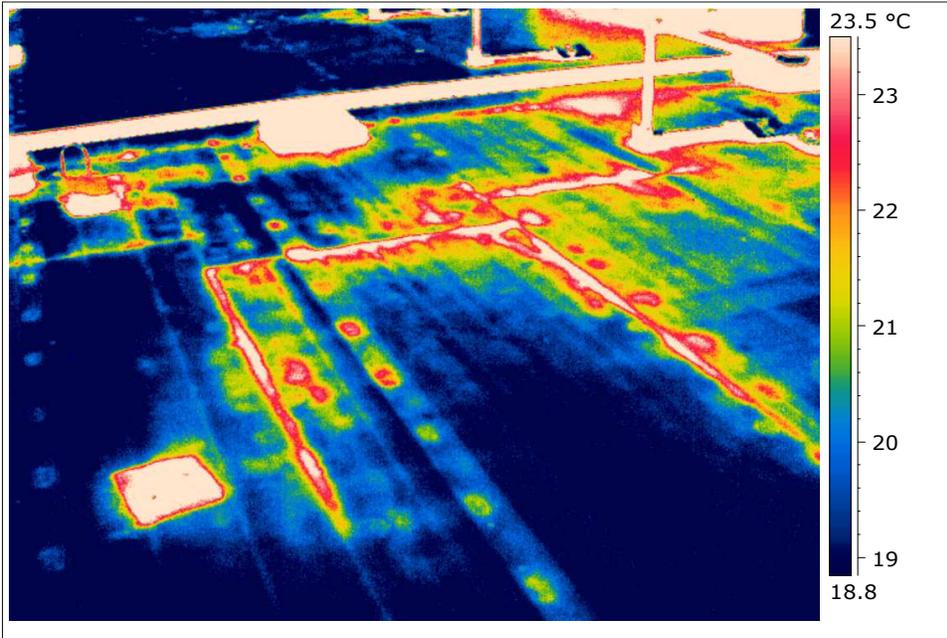


Comment:

The irregular shaped warm area indicates water ingress within the roof system. Closer visual inspection revealed a slit in the membrane (arrowed) which is the likely entry point for moisture and should be repaired.

See graphic on page 4 of this report to identify location on the roof.

Area: Leak Number 4

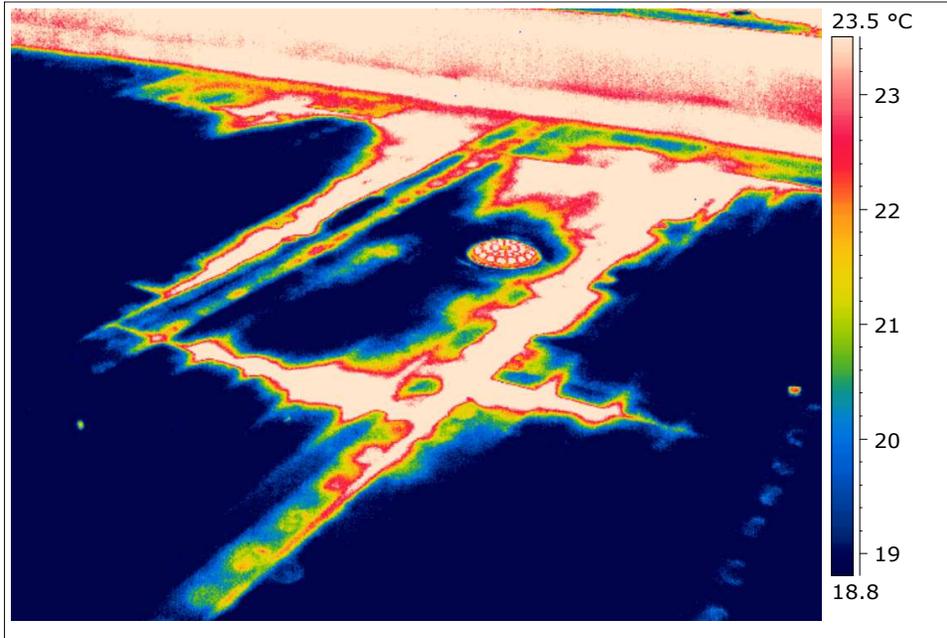


Comment:

The irregular shaped warm areas indicate water ingress within the roof system. Closer visual inspection revealed 2 punctures in the membrane (arrowed) which are the likely entry points for moisture and should be repaired. These areas appear to have been attempted to be repaired previously but the standard appears very poor and were concealed by slate tiles.

See graphic on page 4 of this report to identify location on the roof.

Area: Leak Number 5

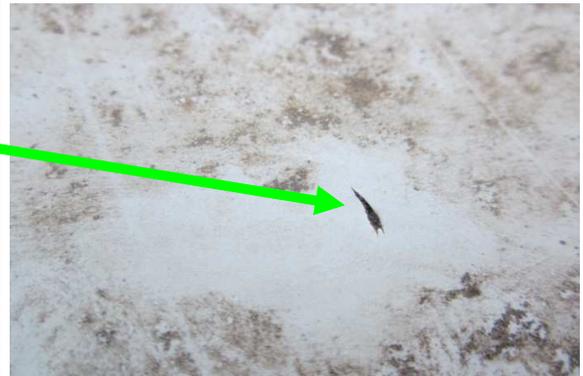
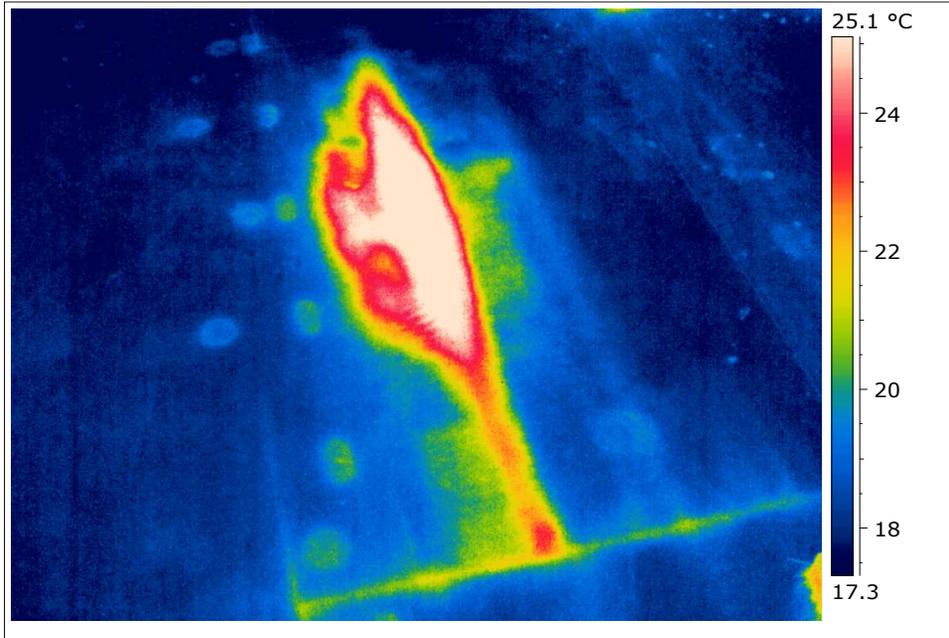


Comment:

The irregular shaped warm area indicates water ingress within the roof system. Closer visual inspection revealed a penetration in the membrane (arrowed) which is a possible entry point for moisture and should be repaired. It is also possible that water ingress from leak number 4 (see previous page) could be tracking and gathering in this area.

See graphic on page 4 of this report to identify location on the roof.

Area: Leak Number 6



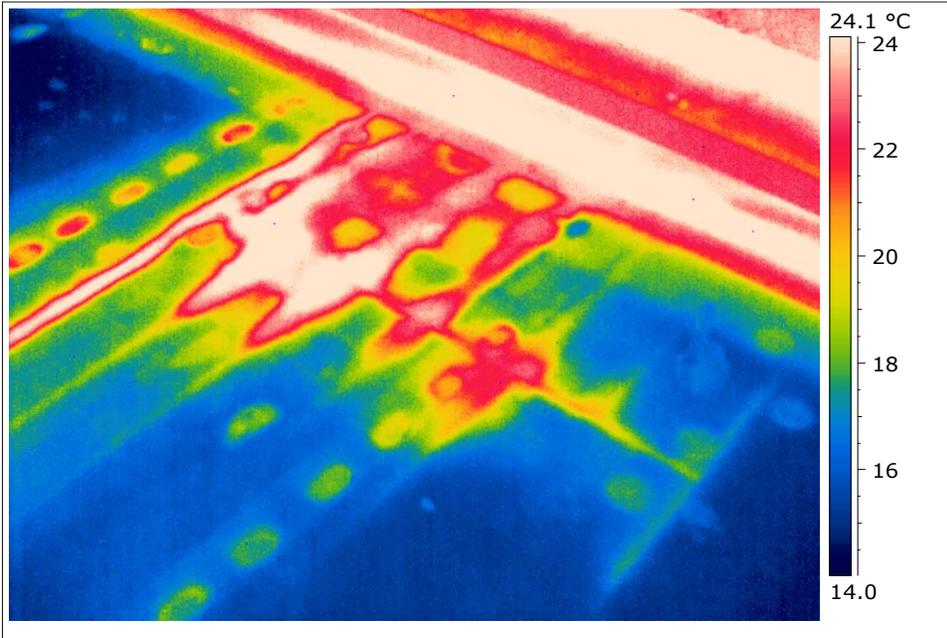
Comment:

The irregular shaped warm area indicates water ingress within the roof system.

Closer visual inspection revealed a penetration in the membrane (arrowed) which is the likely entry point for moisture and should be repaired.

See graphic on page 4 of this report to identify location on the roof.

Area: Leak Number 7

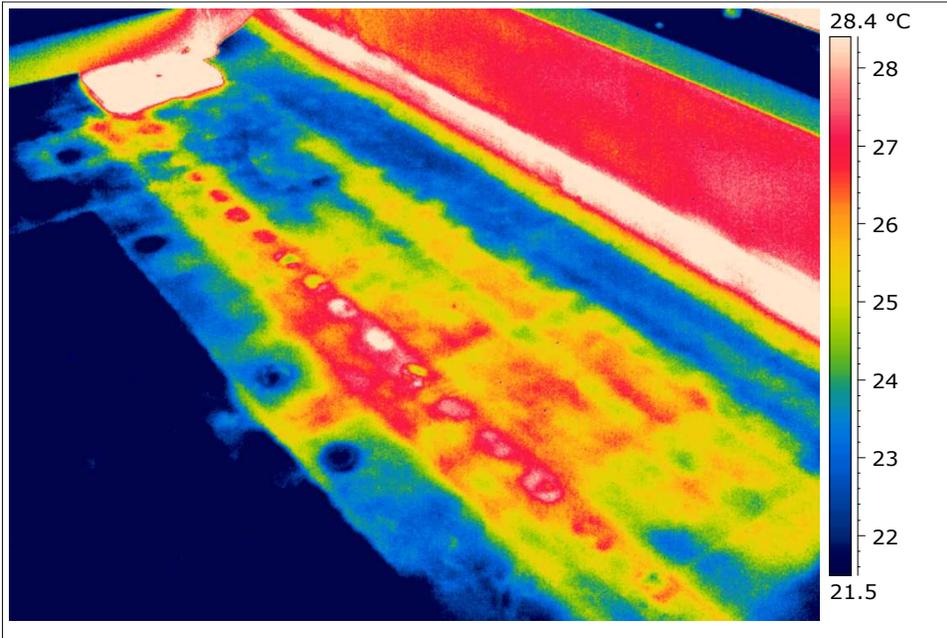


Comment:

The irregular shaped warm area indicates water ingress within the roof system. Closer visual inspection revealed a slit in the membrane (arrowed) which is the likely entry point for moisture and should be repaired.

See graphic on page 4 of this report to identify location on the roof.

Area: Leak Number 8



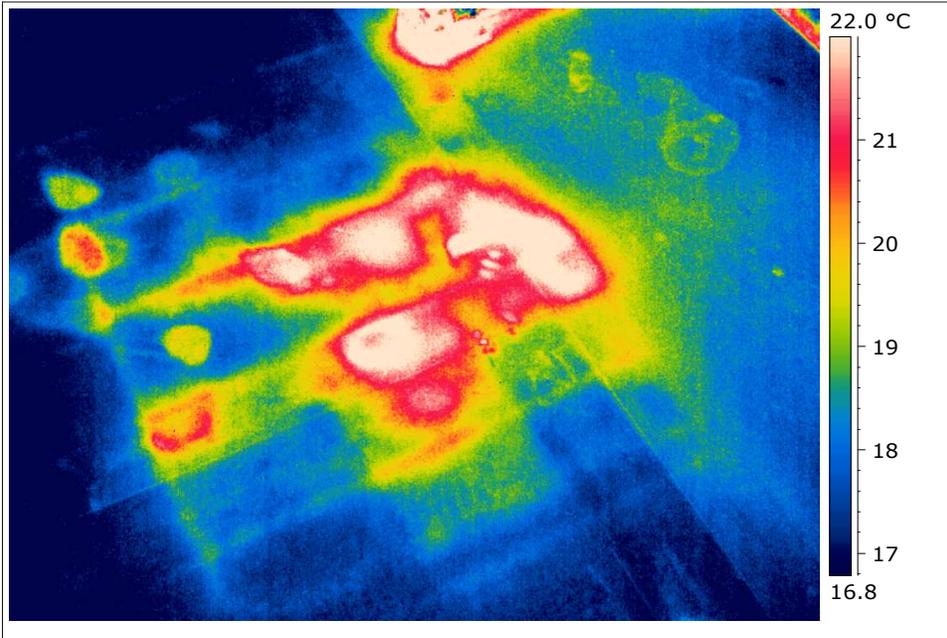
Comment:

The irregular shaped warm area indicates water ingress within the roof system.

The definite source of the moisture could not be located in this area but it is suspected that the stone support base for the gas pipe may have damaged the membrane and should be inspected and re-sealed as required.

See graphic on page 4 of this report to identify location on the roof.

Area: Leak Number 9

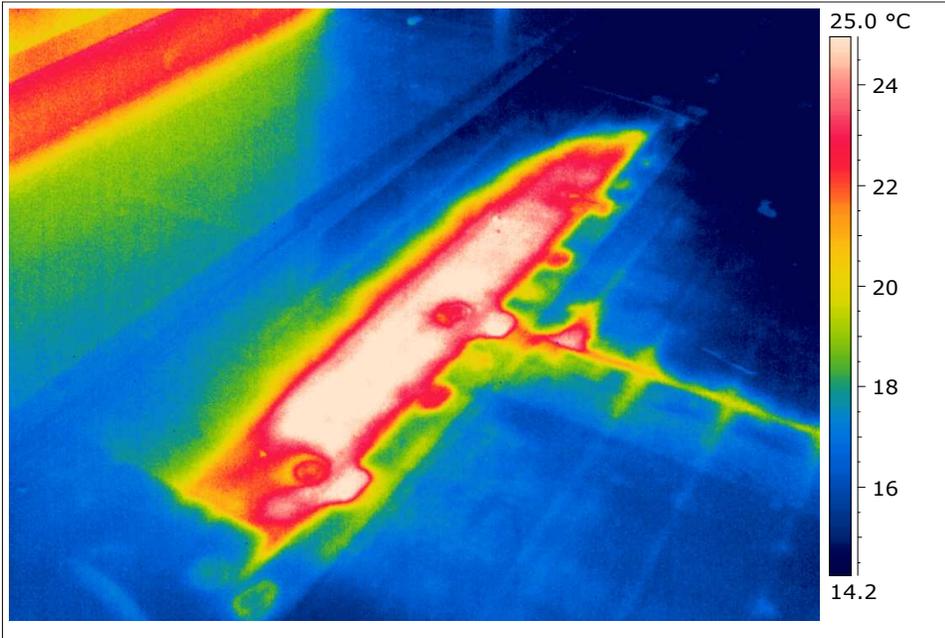


Comment:

The irregular shaped warm area indicates water ingress within the roof system. Closer visual inspection revealed a defective seal in the membrane (arrowed) which is the likely entry point for moisture and should be repaired.

See graphic on page 4 of this report to identify location on the roof.

Area: Leak Number 10

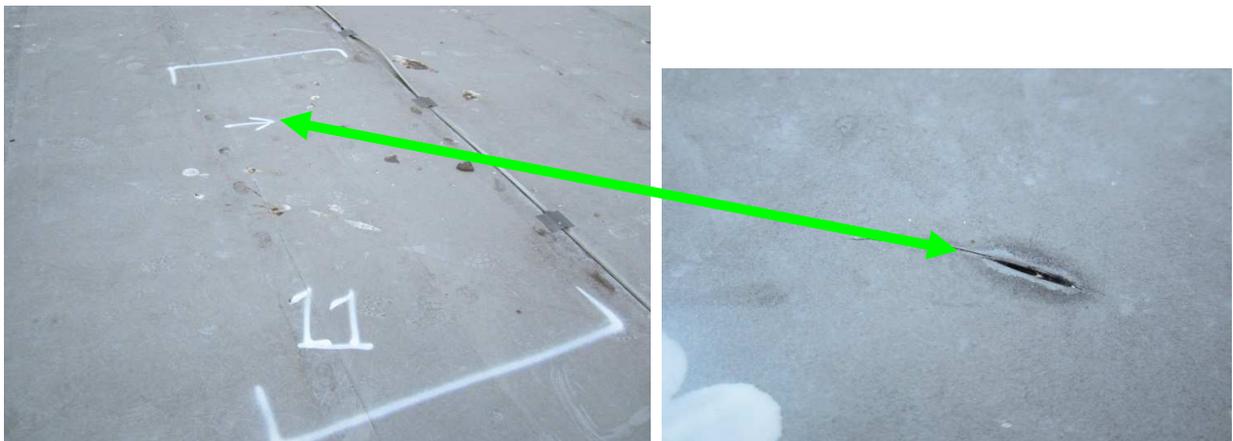
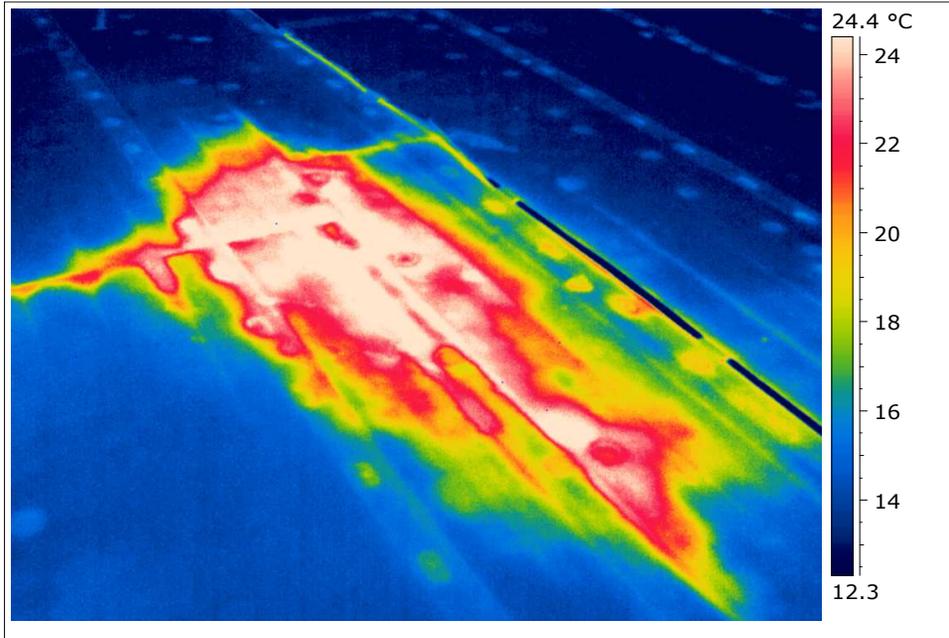


Comment:

The irregular shaped warm area indicates water ingress within the roof system. Closer visual inspection revealed a penetration in the membrane (arrowed) which is the likely entry point for moisture and should be repaired.

See graphic on page 4 of this report to identify location on the roof.

Area: Leak Number 11

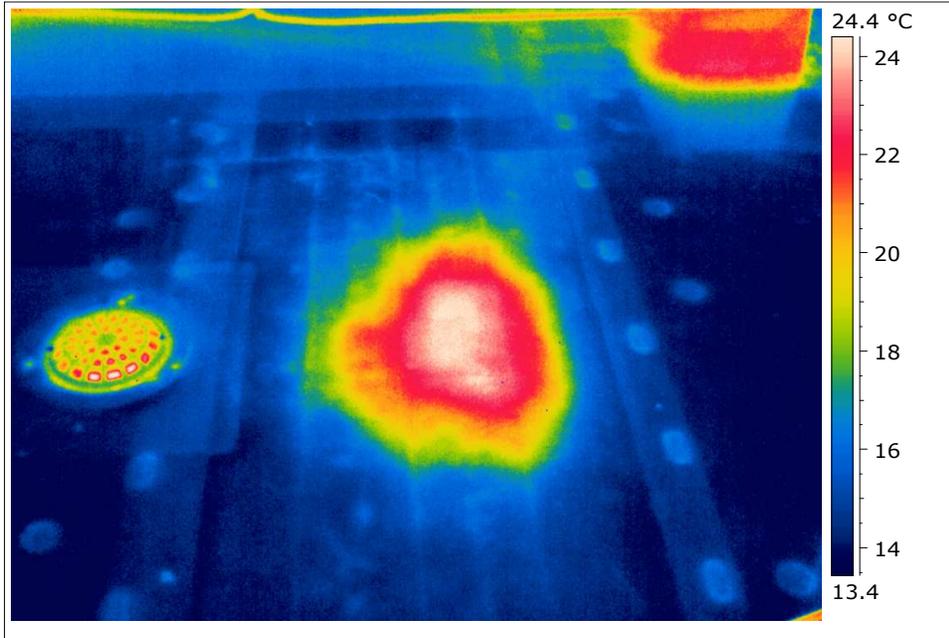


Comment:

The irregular shaped warm area indicates water ingress within the roof system. Closer visual inspection revealed a slit in the membrane (arrowed) which is the likely entry point for moisture and should be repaired.

See graphic on page 4 of this report to identify location on the roof.

Area: Leak Number 12

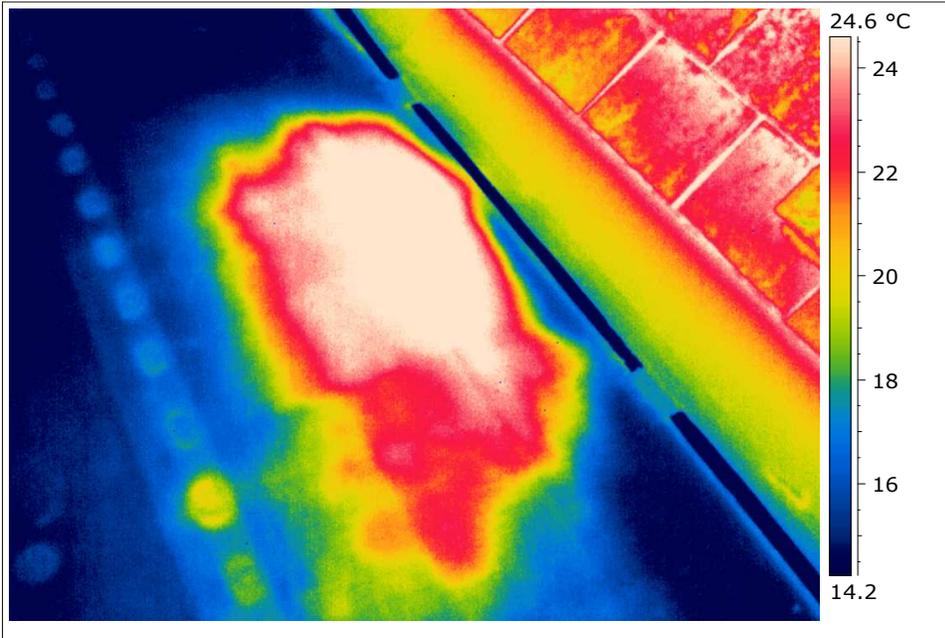


Comment:

The irregular shaped warm area indicates water ingress within the roof system. Closer visual inspection revealed a slit in the membrane (arrowed) which is the likely entry point for moisture and should be repaired.

See graphic on page 4 of this report to identify location on the roof.

Area: Leak Number 13

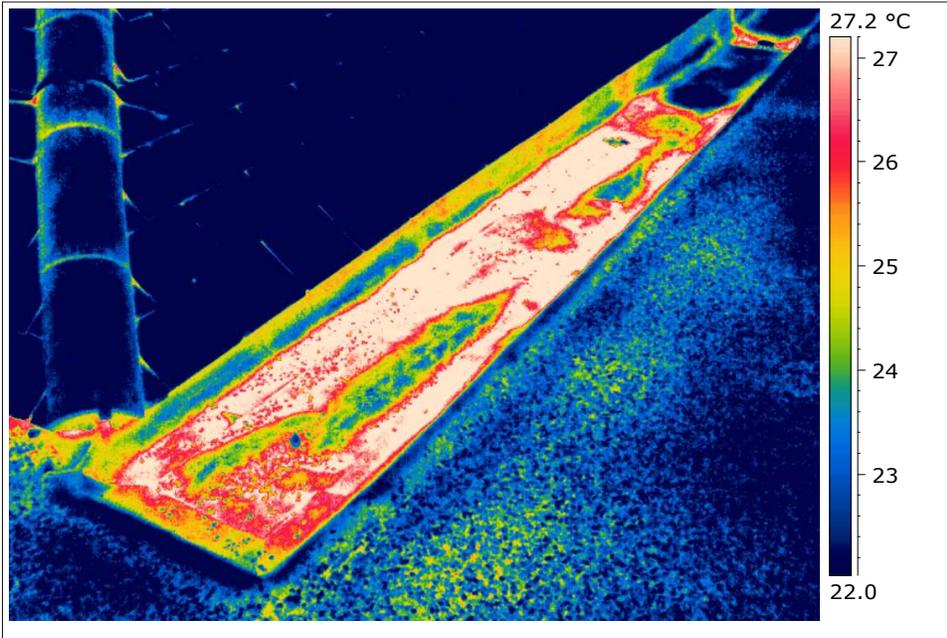


Comment:

The irregular shaped warm area indicates water ingress within the roof system. Closer visual inspection revealed a slit in the membrane (arrowed) which is the likely entry point for moisture and should be repaired.

See graphic on page 4 of this report to identify location on the roof.

Area: Leak Number 14

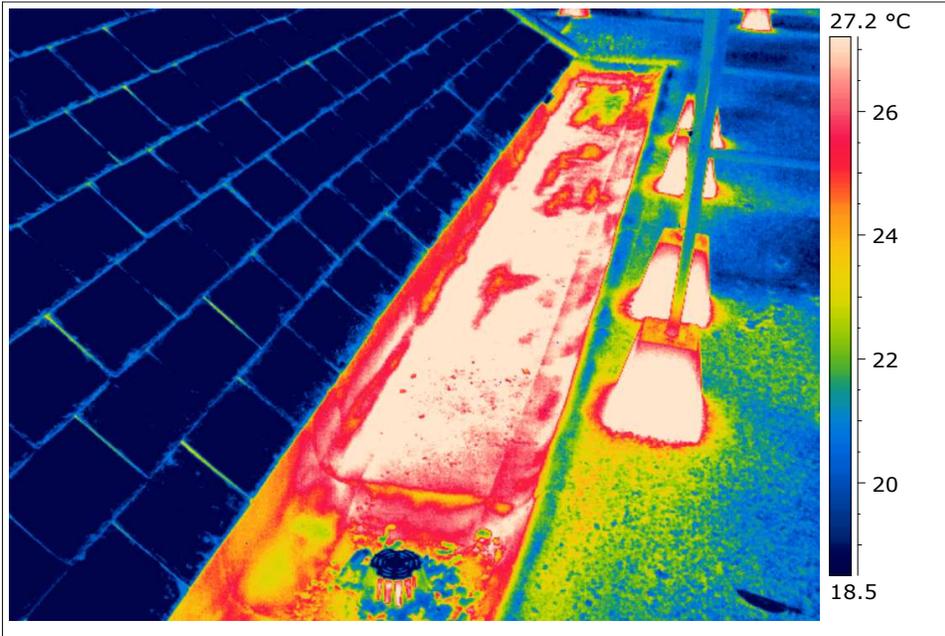


The irregular shaped warm area in the gully indicates water ingress within the roof system. Closer visual inspection revealed a suspected defective seal on the felt lap (arrowed) which is the likely entry point for moisture and should be repaired.

The whole area outlined in paint should be thoroughly inspected for any further defects

See graphic on page 4 of this report to identify location on the roof.

Area: Leak Number 15



Comment:

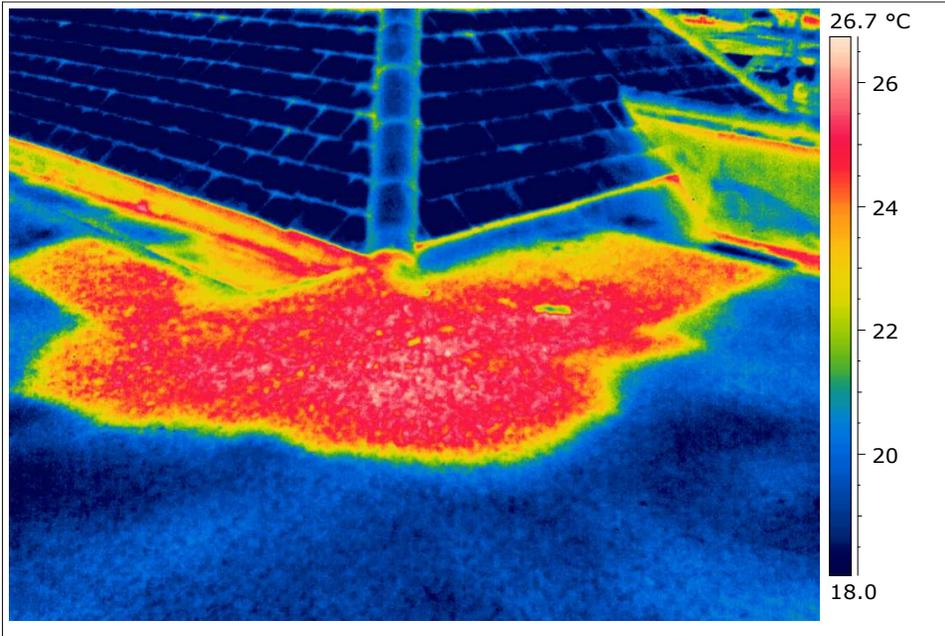
The irregular shaped warm area in the gully indicates water ingress within the roof system.

Closer visual inspection revealed a crack in the felt system (arrowed) which is the likely entry point for moisture and should be repaired.

The whole area outlined in paint should be thoroughly inspected for any further defects

See graphic on page 4 of this report to identify location on the roof.

Area: Leak Number 16



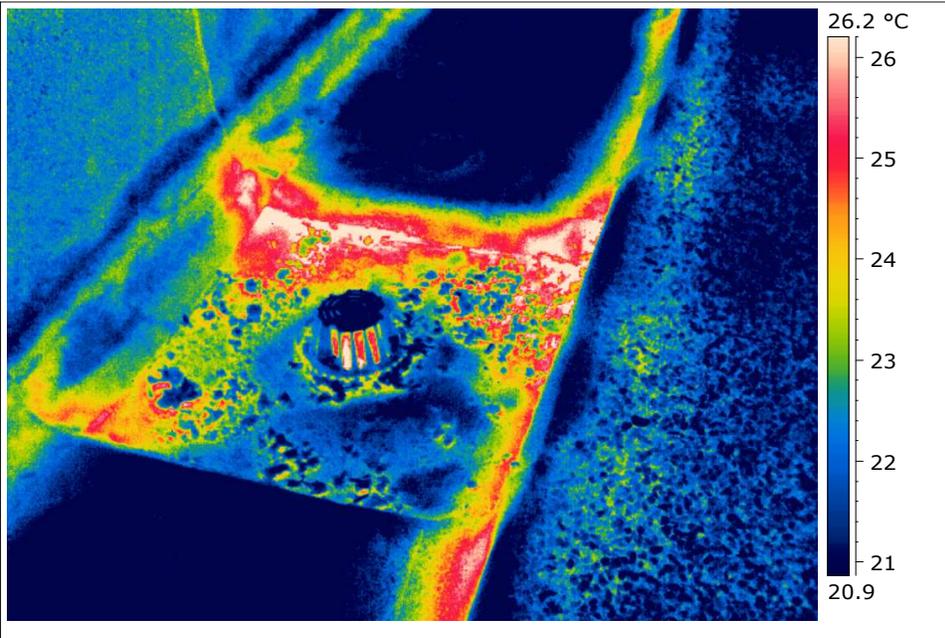
Comment:

The irregular shaped warm area indicates water ingress within the roof system.

Closer visual inspection did not reveal any clear damage although a detailed inspection of the whole area outlined in paint should be thoroughly carried out to identify the water ingress point which will be in this area.

See graphic on page 4 of this report to identify location on the roof.

Area: Leak Number 17



Comment:

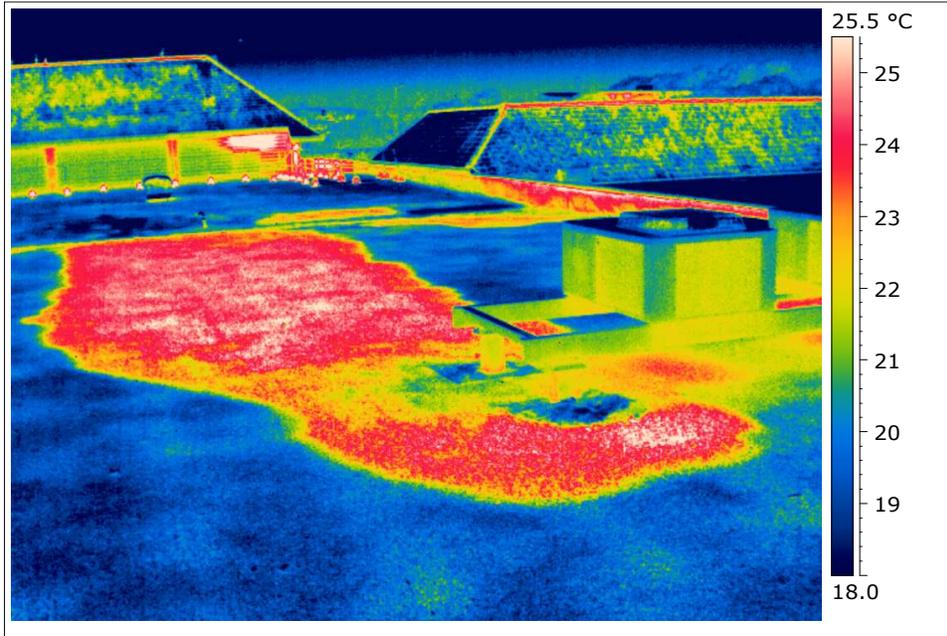
The irregular shaped warm area in the gully indicates water ingress within the roof system.

Closer visual inspection revealed a crack in the felt system (arrowed) which is the likely entry point for moisture and should be repaired.

The whole area outlined in paint should be thoroughly inspected for any further defects

See graphic on page 4 of this report to identify location on the roof.

Area: Leak Number 18



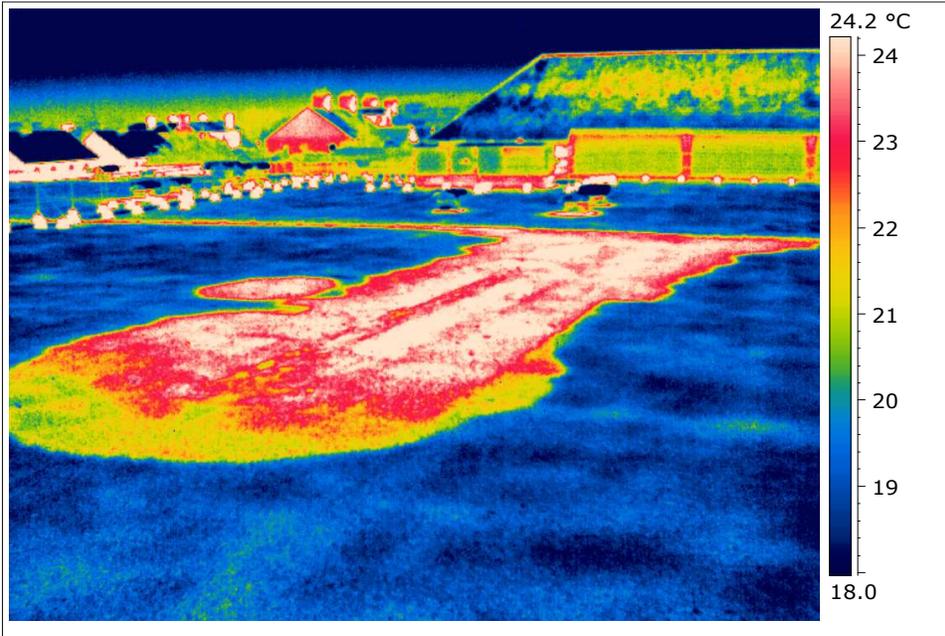
Comment:

The very significant irregular shaped warm area on the roof indicates water ingress within the roof system. Closer visual inspection did not reveal any clear damage although it is suspected that the water ingress is occurring on the two support legs (shown in separate image) above. This area should be thoroughly inspected for any damage.

It should be noted that the water ingress entering at this point appears to then travel down the roof towards the gully in the distance.

See graphic on page 4 of this report to identify location on the roof.

Area: Leak Number 19



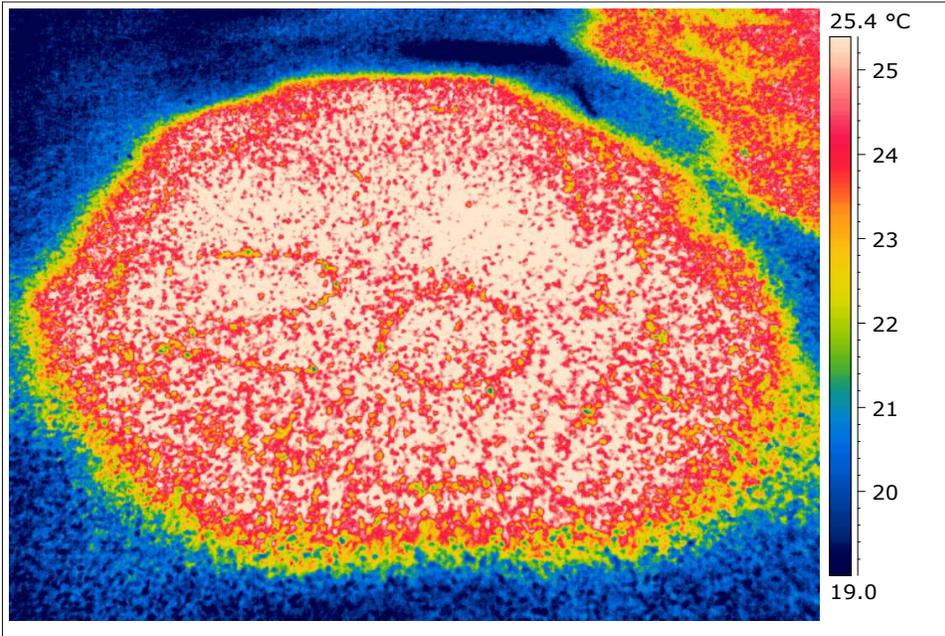
Comment:

The very significant irregular shaped warm area on the roof indicates water ingress within the roof system. Closer visual inspection did not reveal any clear damage although it is suspected that the water ingress is occurring in the area circled in the main photograph and the area should be thoroughly inspected for any damage.

It should be noted that the water ingress entering at this point appears to then travel down the roof towards the gully in the distance.

See graphic on page 4 of this report to identify location on the roof.

Area: Leak Number 20

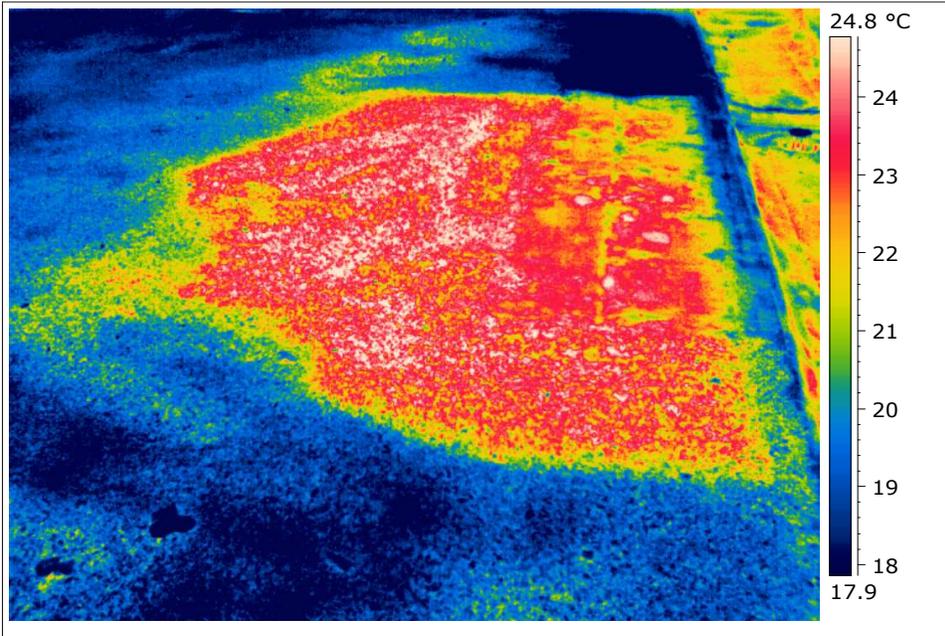


Comment:

The irregular shaped warm area on the roof indicates water ingress within the roof system. Closer visual inspection did not reveal any clear damage so the area encircled in paint should be thoroughly inspected for any damage.

See graphic on page 4 of this report to identify location on the roof.

Area: Leak Number 21

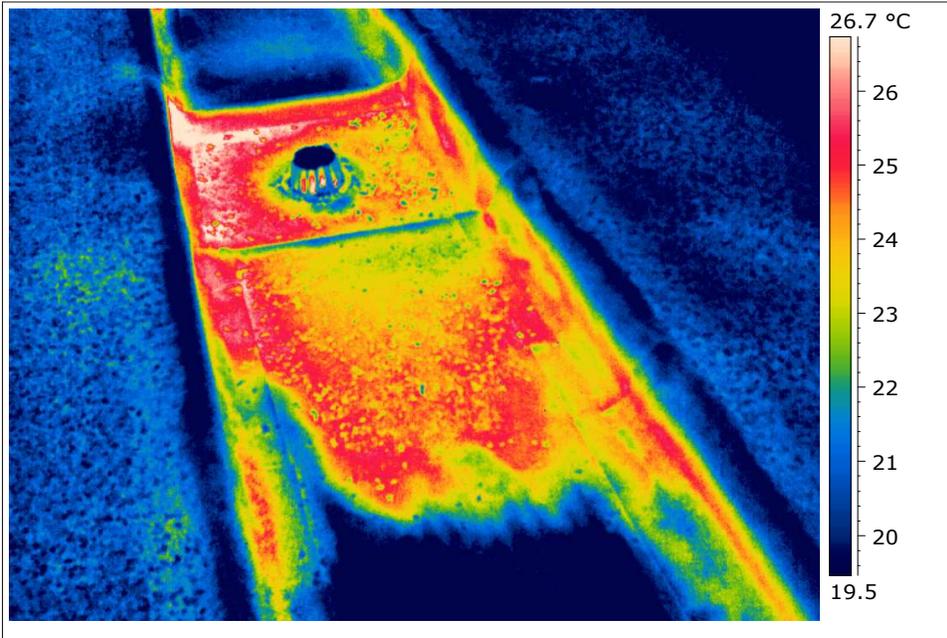


Comment:

The irregular shaped warm area on the roof indicates water ingress within the roof system. Closer visual inspection did not reveal any clear damage so the area encircled in paint should be thoroughly inspected for any damage.

See graphic on page 4 of this report to identify location on the roof.

Area: Leak Number 22



Comment:

The irregular shaped warm area in the gully indicates water ingress within the roof system. Closer visual inspection did not reveal any clear damage so the area encircled in paint should be thoroughly inspected for any damage.

See graphic on page 4 of this report to identify location on the roof.