



MIDLANDS THERMAL IMAGING

**This Inspection was
carried out on a home in
Rathcabbin, Roscrea, Co.
Tipperary**

This report has been completed by Katie Masterson.

Location: Kitchen - Ambient temperature 20°C

Image one

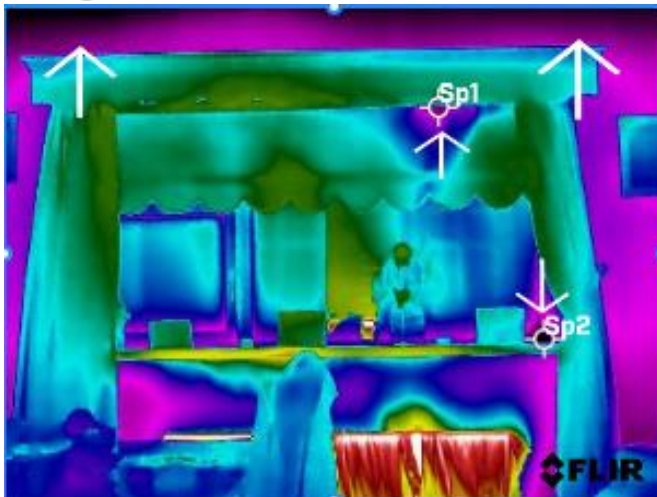


Image one : There are two Spots (Sp1 14.3 °C and Sp2 11.9) in the image that show significant heat loss, It is possible to feel air filtration in these areas. There is a large area above the window towards the ceiling that appears to be losing heat also, this can be seen as the black area at the top of the image.

Image two

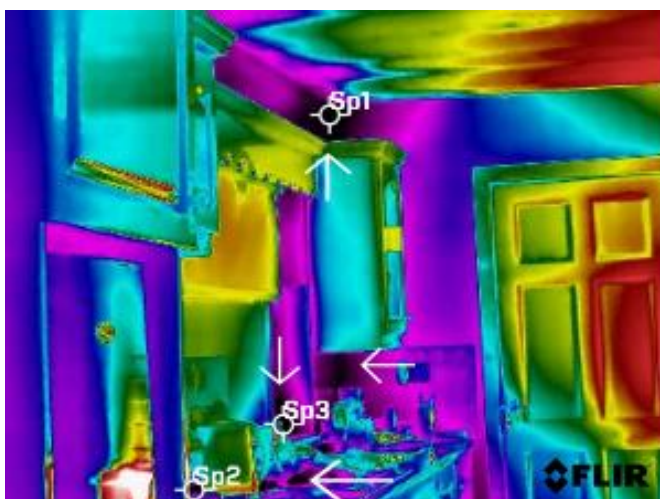


Image two: There is significant heat loss in the corner of the kitchen and above the kitchen cabinet of 7°C from room temperature. There is also cold spot running under the window ledge pointed out by the arrow.

Image three

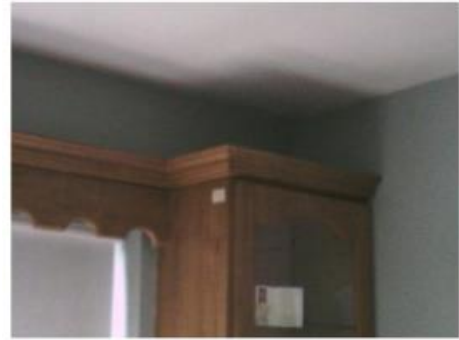
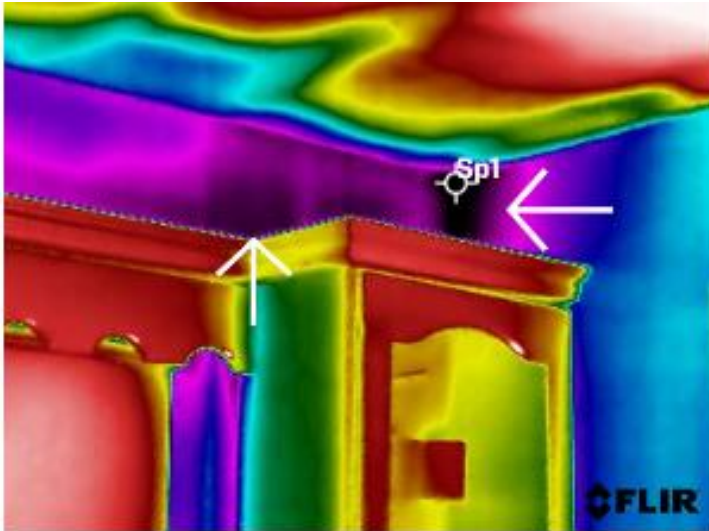


Image three: A closer look at the cold spot above the kitchen cabinet in image two. It seems to run along the top of the wall and meeting with the problem area in the next image.

Image four

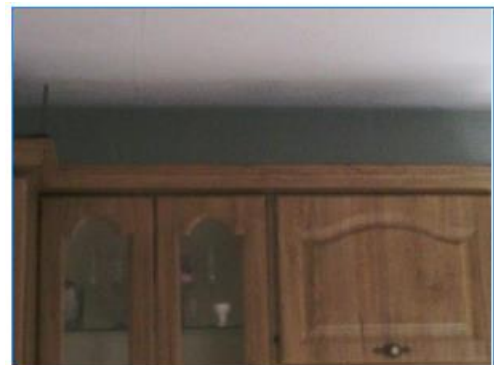
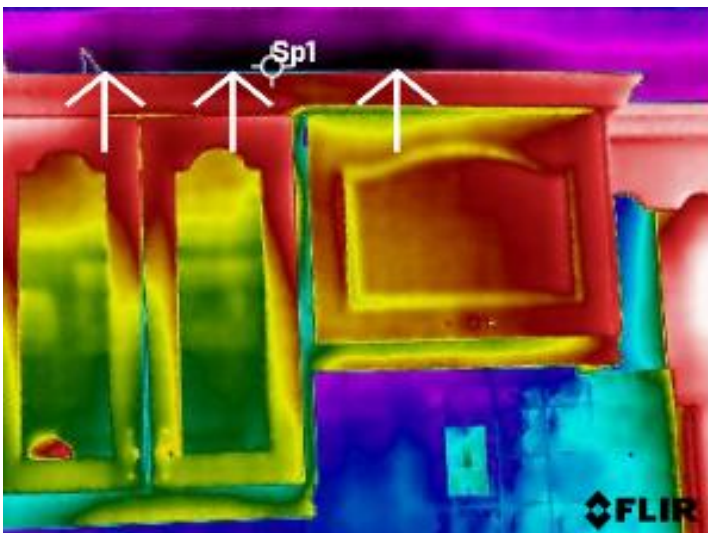


Image four: There is a loss of heat above this cabinet/extractor fan of up to 7°C. On inspection there is an open hole in the wall here.

Image five

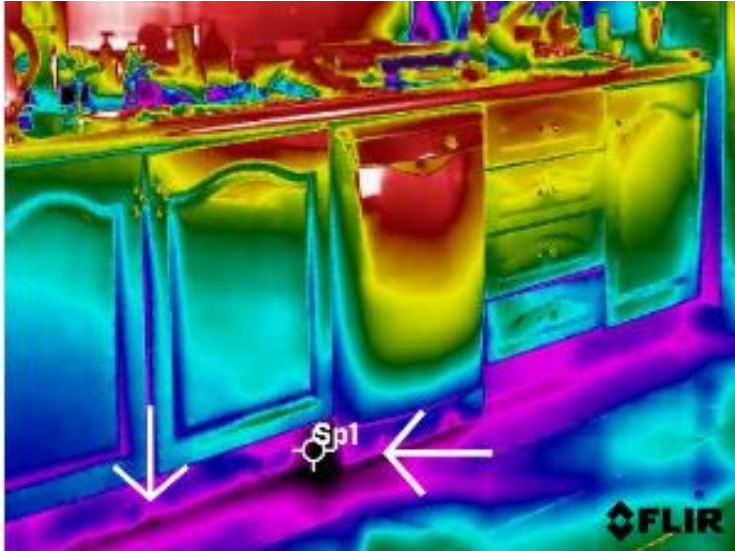


Image Five: The seems to be air filtration coming through the side of the dishwasher which flows out underneath the kitchen cabinets also.

Findings:

Overall, the inspections indicate the kitchen the window seals may need to be looked at as it seems there are spots of air filtration. There is also heat loss running along the top of the walls which may be due to insufficient insulation however this should be investigated further. There is significant heat loss above the extractor fan area which may be from an air vent from the extractor fan.

Location: Back Kitchen/ Utility room

Image one

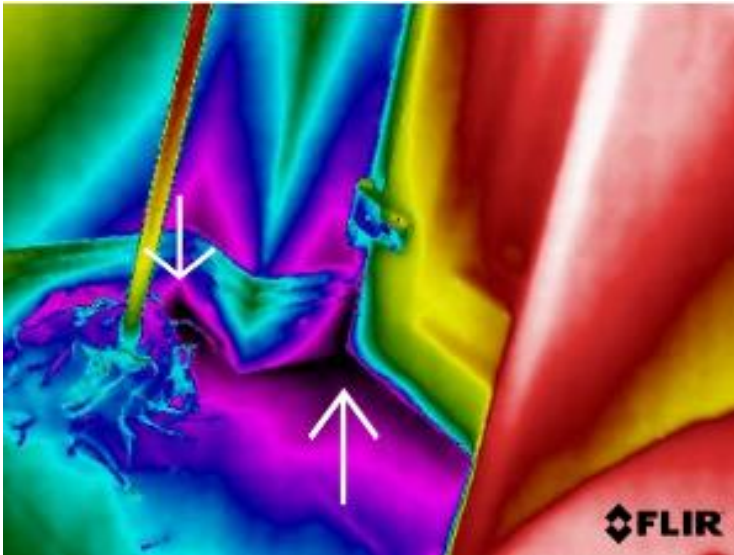


Image one: There is a temperature difference of up to 10°C in this section. There is air filtration here and it also appears from under the skirting board.

Image two

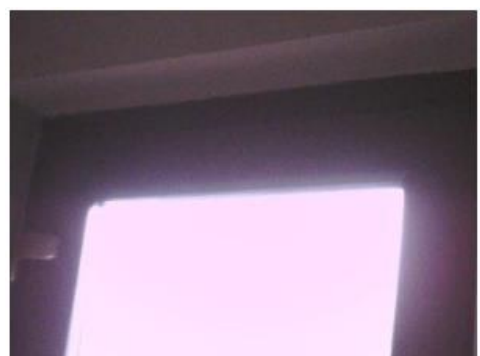
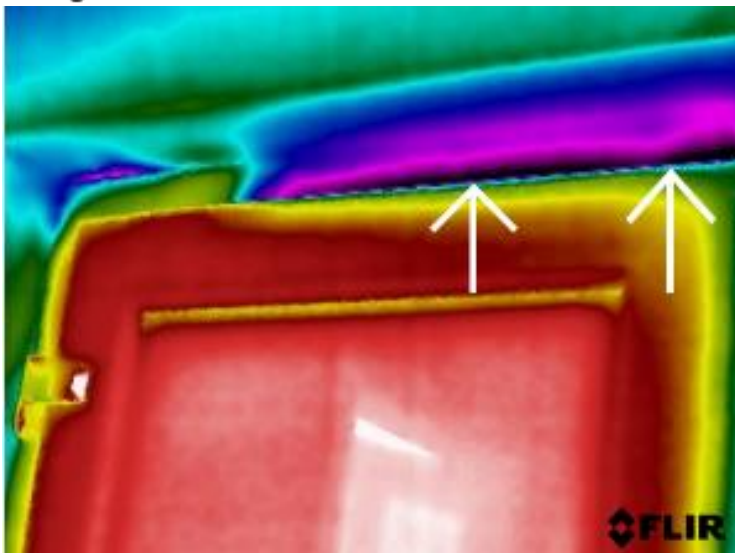


Image two: Indication of air filtration passing through the seal of the door here shown by arrows with a difference of over 10°C.

Image three

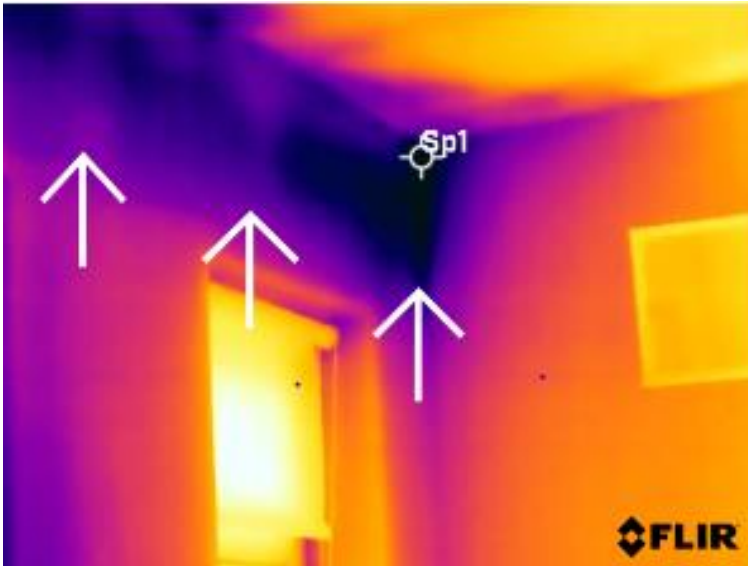


Image three: I have selected a different colour palette on this image to highlight the difference in temperature running along the top of the utility wall which can be seen as the darker area. There is up to 7°C heat loss in this area.

Findings:

The images highlight a draft coming through areas of the back door which may indicate that the seal on the door may need replacing. The heat loss running along the top of the wall may be due to insufficient insulation and may require more advise.

Location: Bedroom One –Ambient temperature 20°C

Image one

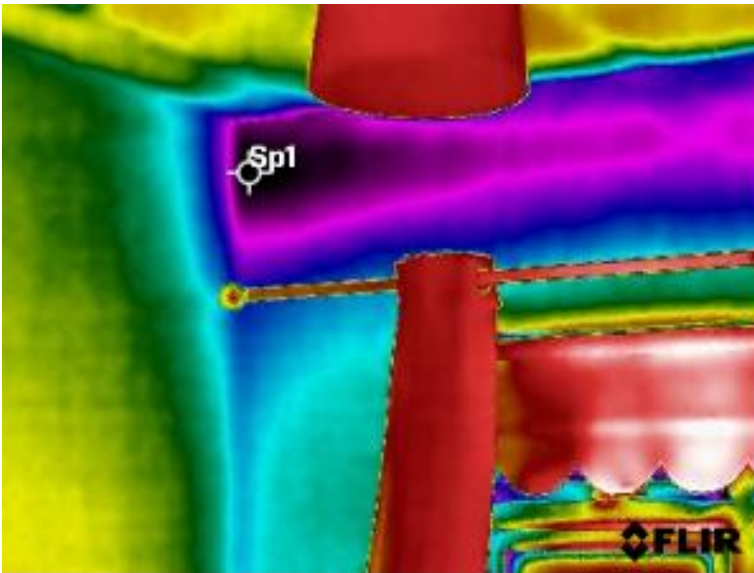


Image one: Heat loss of up to 8 °C above the window that runs across and meets with the problem area in image two below.

Image two

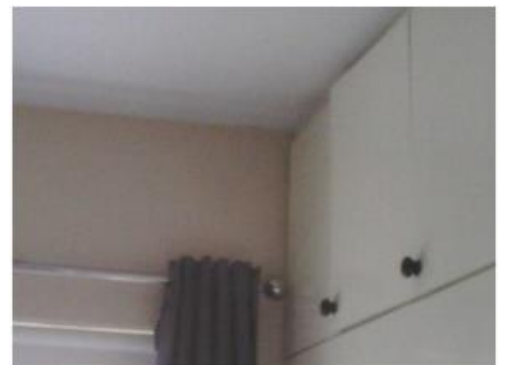
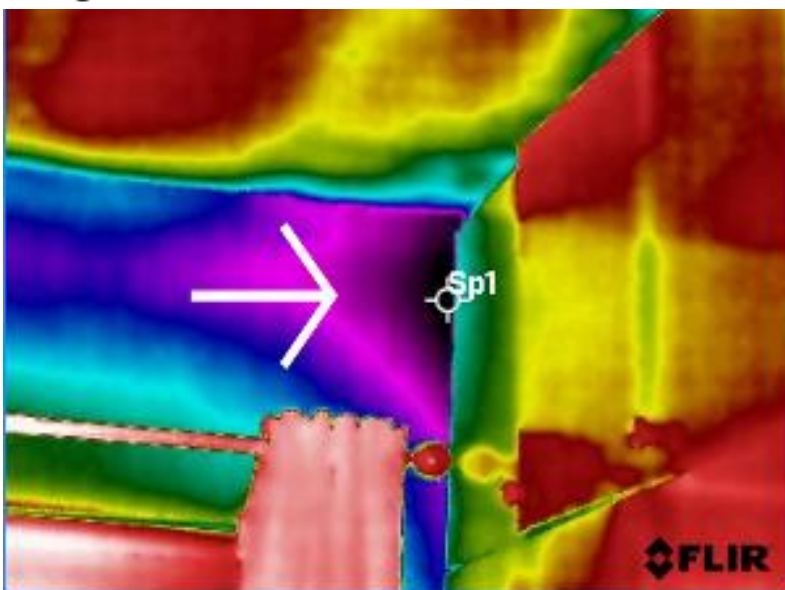


Image two: Heat loss can be seen on the right side above the window which as explained previously, seems to run across the top of the window.

Image three

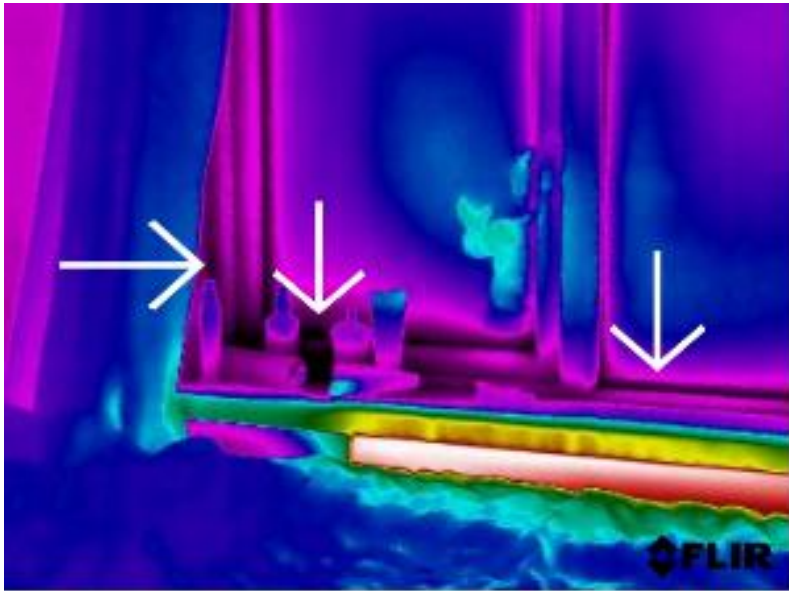


Image three: It is obvious from this image that there is heat loss here. The temperature drops up to 9°C in the corner of the window.

Image four

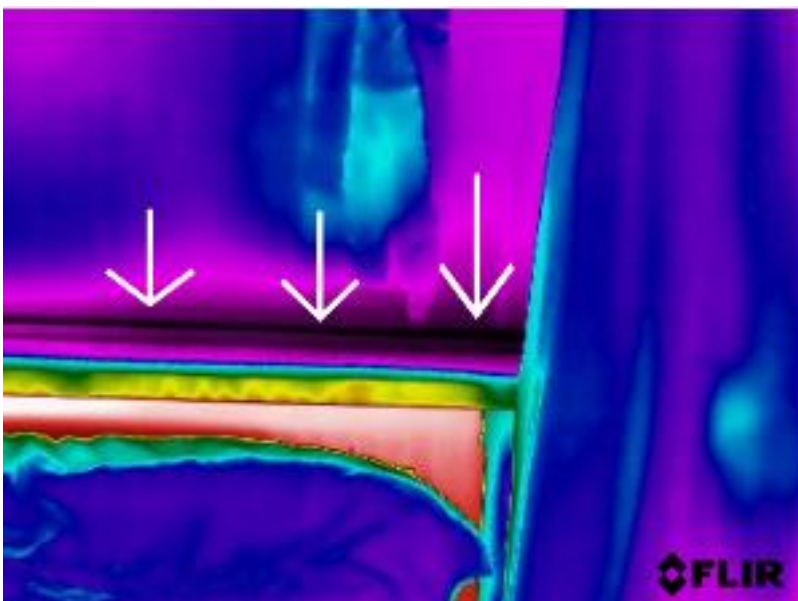


Image four: As before, this image indicates heat loss on this section of the window.

Findings:

The inspection of this room has shown heat loss in the top corners of the wall to the front of the house. It seems that this heat loss runs across the top of the window. This is most likely caused by issues with insufficient insulation in this area, however, this should be investigated further. There is obvious air filtration around the window which may be due to the seals needing replacing.

Location Bathroom – Ambient temperature 16°C

Image one

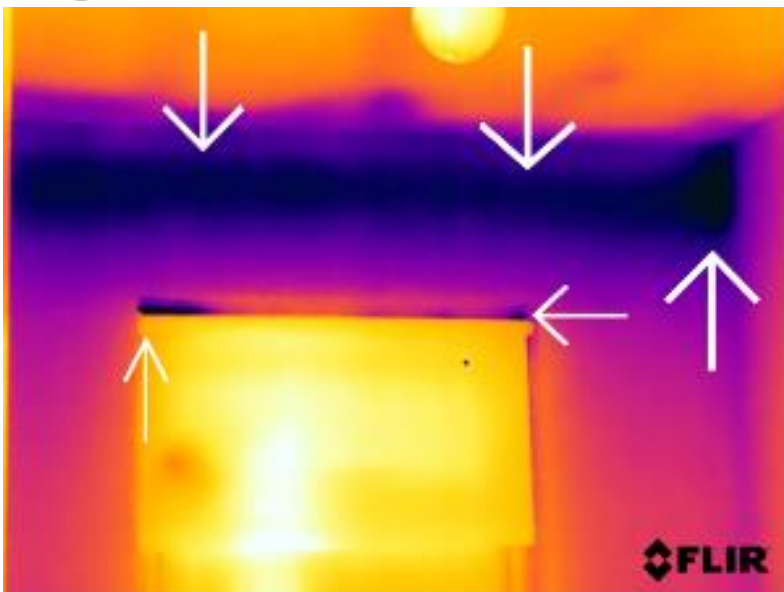


Image two



Image one: There is air filtration coming through two separate areas at the top of the window. It is also clear from the image where heat is being lost across the top of the wall with the corner being the coldest spot at 11°C.

Image two

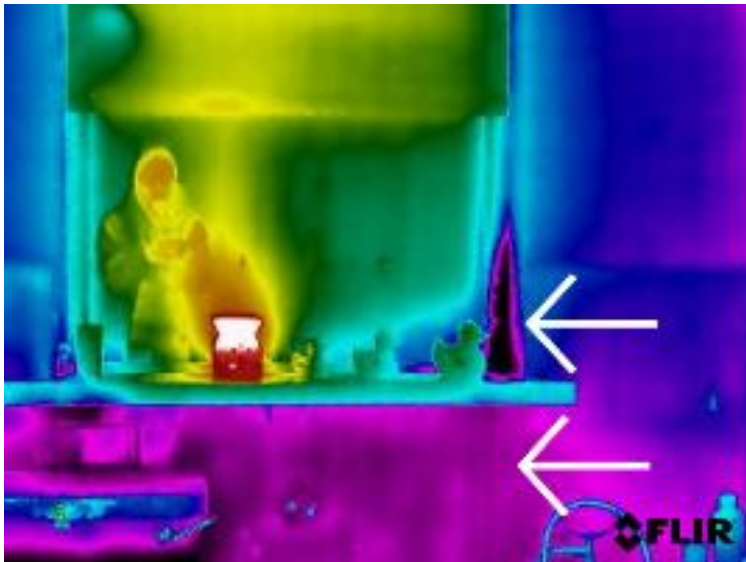


Image two: There is another large area of air filtration appearing in the bottom right side of the window with a temperature drop of 6°C. It appears there is heat being lost from beneath the window also as shown in the purple colour in the image.

Findings:

The inspection in the bathroom shows areas of heat loss around the windows which may be due to issues with the sealing. It seems to be becoming a common issue in the walls above and below the windows are losing heat which may be due to insufficient insulation which should be investigated further.

Location: Bedroom Two - Ambient temperature 19°C

Image one

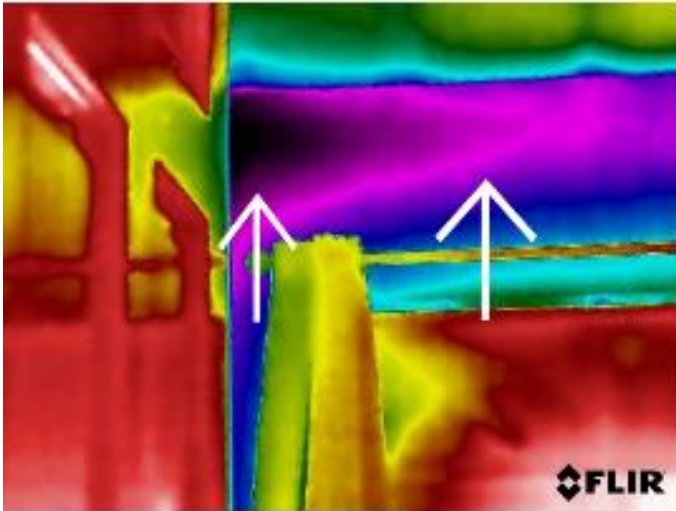


Image one: This image shows problems with heat loss at its most in the corner however runs across the top of the window.

Image two

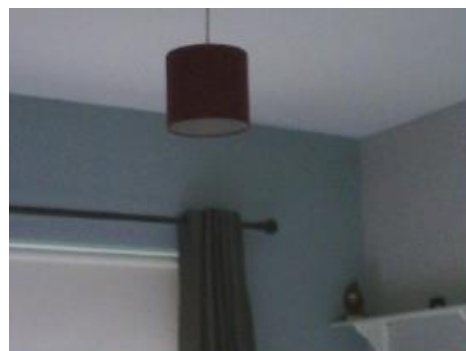
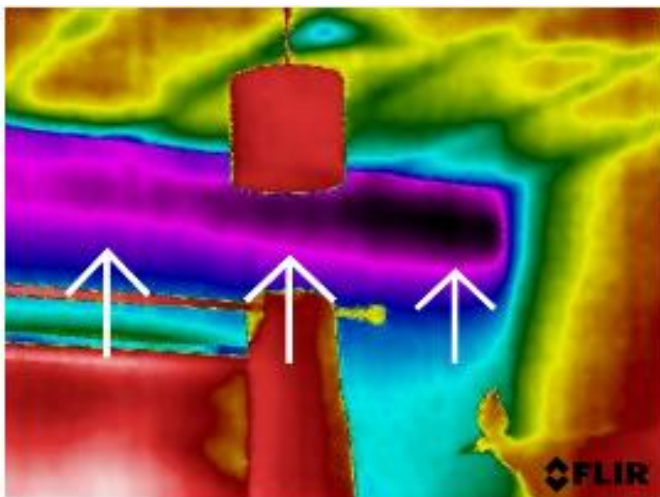


Image two: Heat loss appearing across the top of the window and to the corner of the room. Temperature difference of 7°C in this area.

Image three

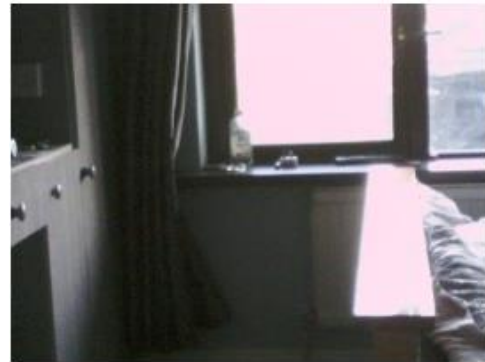
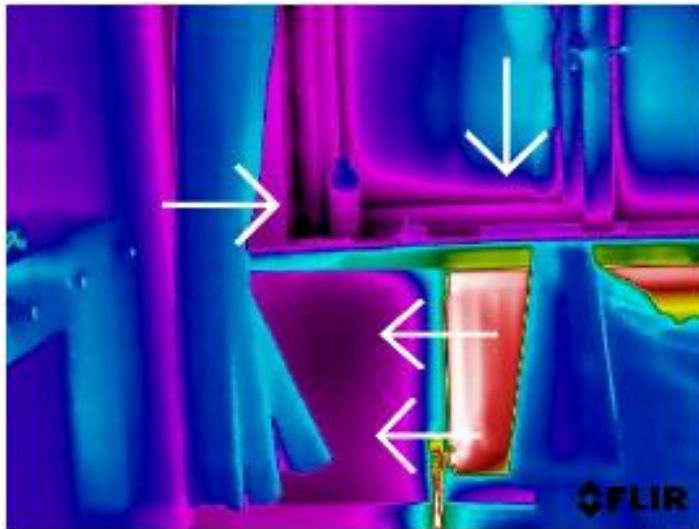


Image three: The image indicated heat loss in the wall under the window shown as the purple colour in the image. There is air filtration through the corner of the window.

Image four

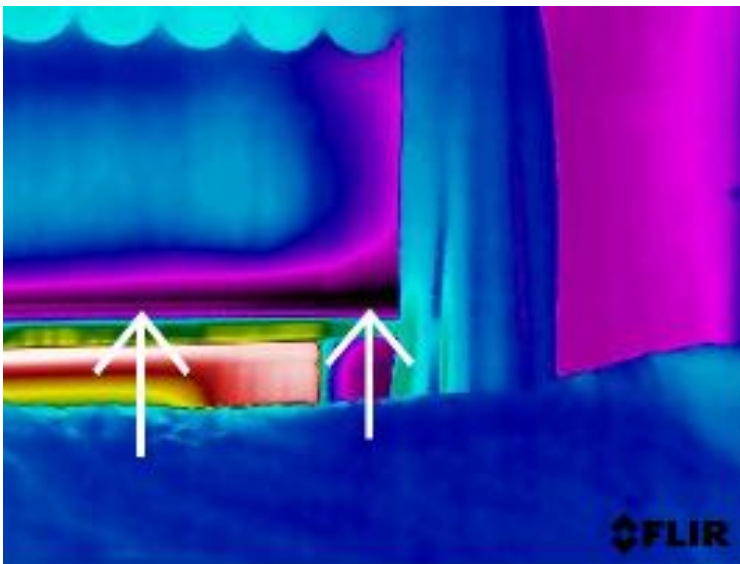


Image four: Air filtration can be seen here through base of the window.

Findings:

In this room there is that cold spot running across the wall between the window and ceiling which may be due to issues with insulation that should be investigated further. It is also clear that there is cold air coming through the base and into the corner of the window which can be caused by a poor seal on the window.

Location: Bedroom Three – Ambient temperature 19°C

Image one

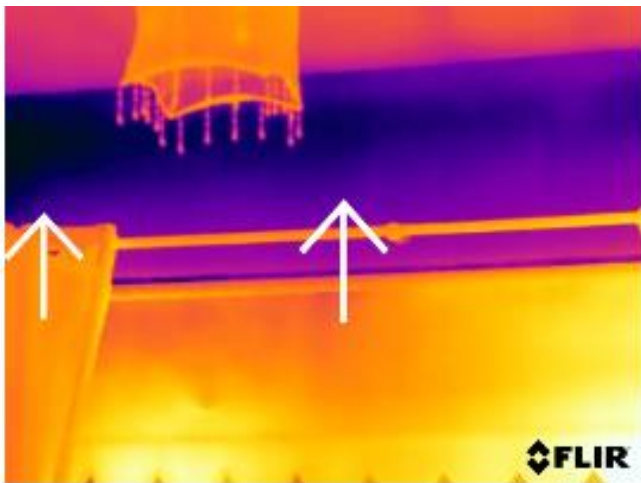


Image two

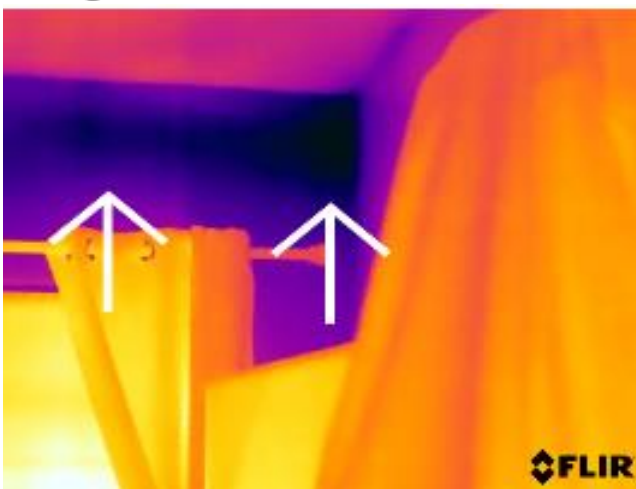


Image one and two: Obvious heat loss above the windows here. There is a temperature drop of 8°C.

Image three

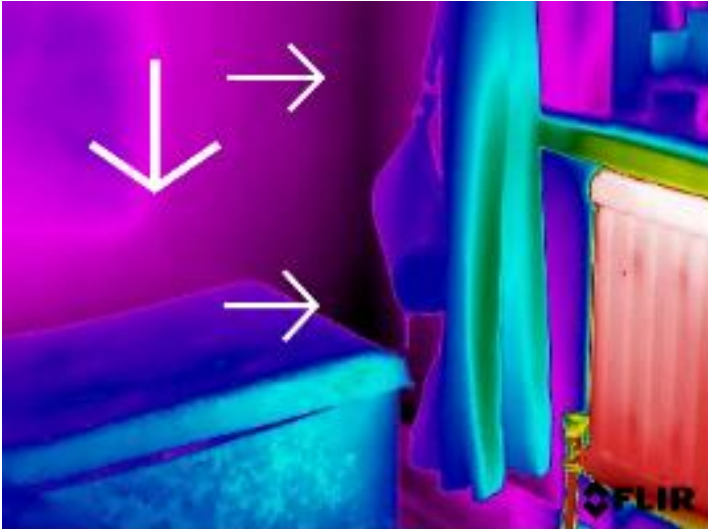


Image three: Shows heat loss in the corner of the room and towards the skirting board which is highlighted in the next image.

Image four

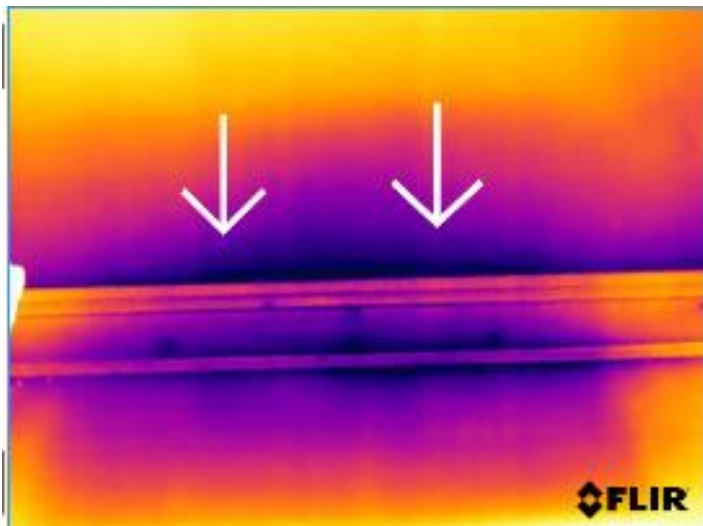


Image four: I have changed the colour palette here to highlight the change in temperature. There is heat loss of up to 9°C here.

Image five

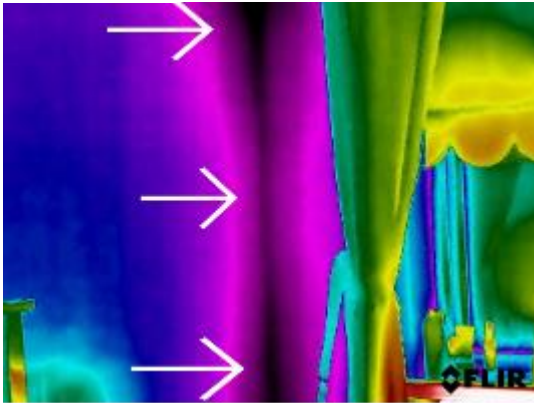


Image five: Loss of heat appearing in the corner of this room from top to bottom.

Image six

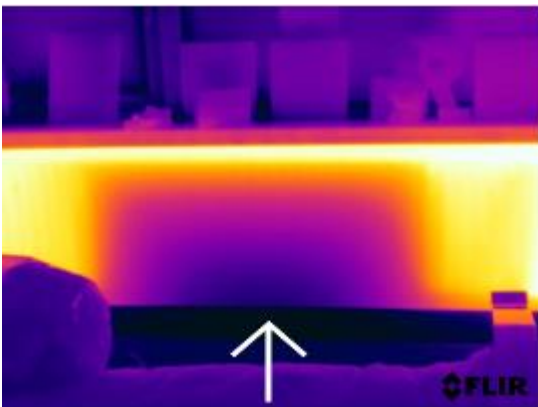


Image six: The radiator is not working at full capacity.

Image seven

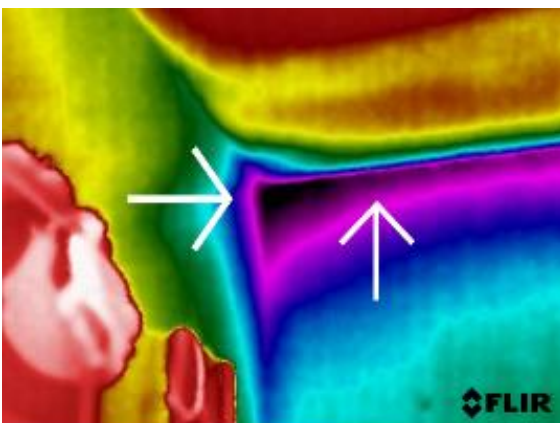


Image seven: Cold spot is visible in top right corner of the room. The temperature difference here in 9°C.

Image eight

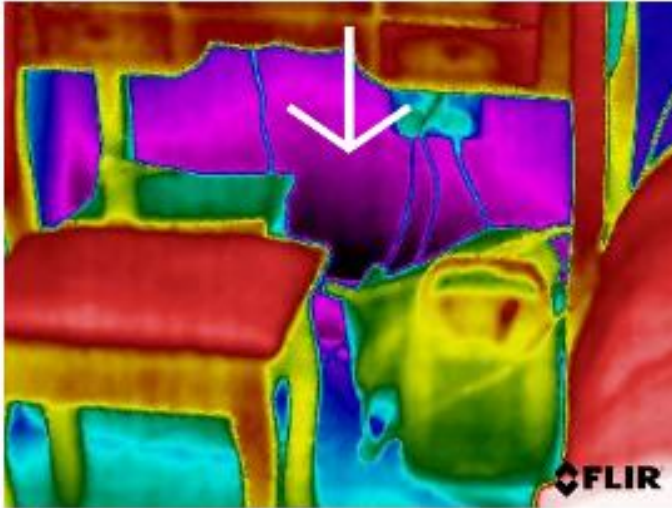


Image eight: Cold spot can be seen behind vanity. Probably the same case as image four with the skirting board in this room.

Findings:

The inspection in this room indicated that there may be issues with insulation. The areas of heat loss seem to be mostly the top, bottom, and corners of the back wall as well as the sites above and below the window, however it should be advised that this be investigated further. The radiator needs attention in this room. It may need to be bled.

Location: Bedroom four - Ambient temperature 20°C

Image one

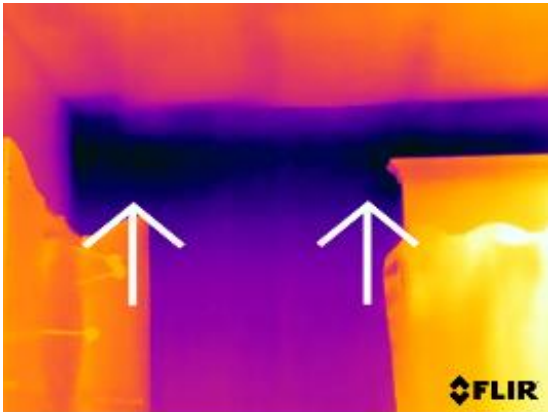


Image two

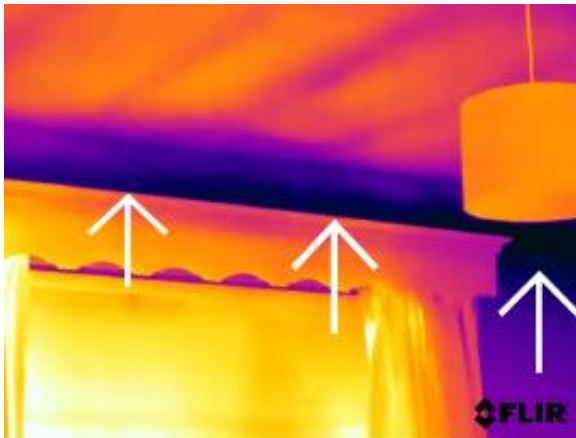


Image three

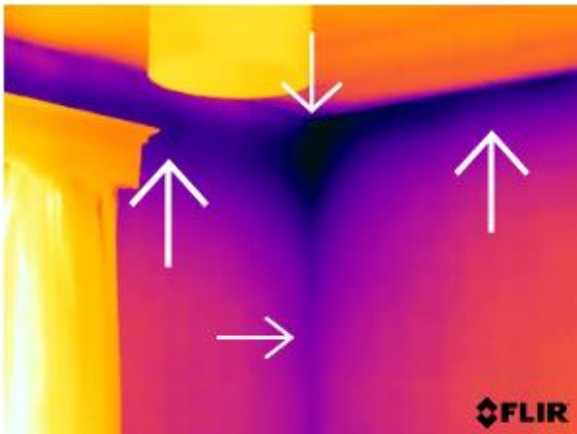


Image one, two and three: Loss of heat running between top of window and ceiling that continues across the back wall. Temperature difference is 8 °C in this area.

Image four

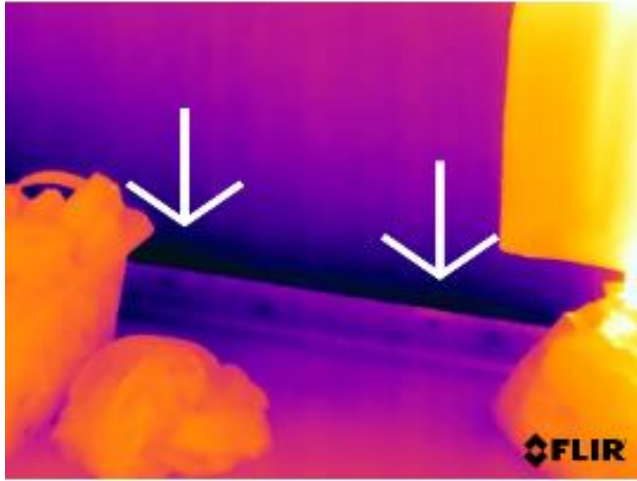


Image five

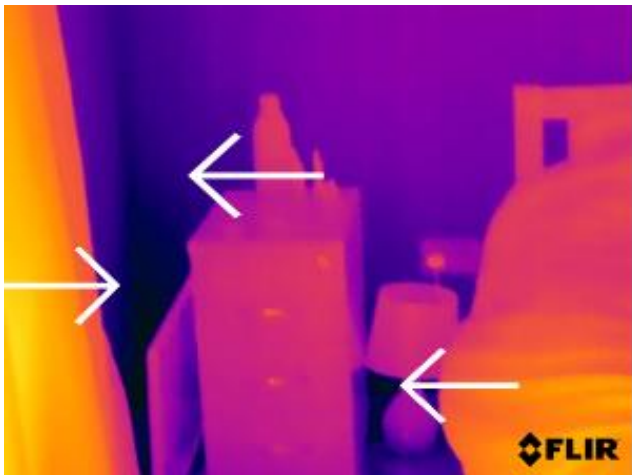


Image six

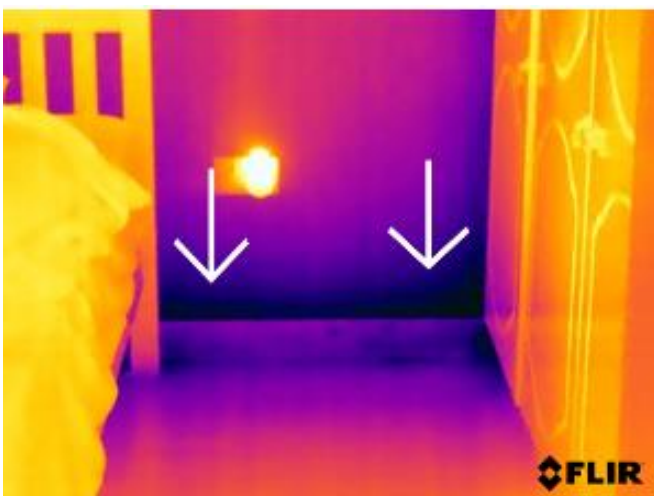


Image four, five and six: heat loss of up to 8°C is visible along the skirting boards in this room. The area of heat loss can also be seen running up the corner wall also by the bedside drawers.

Image seven

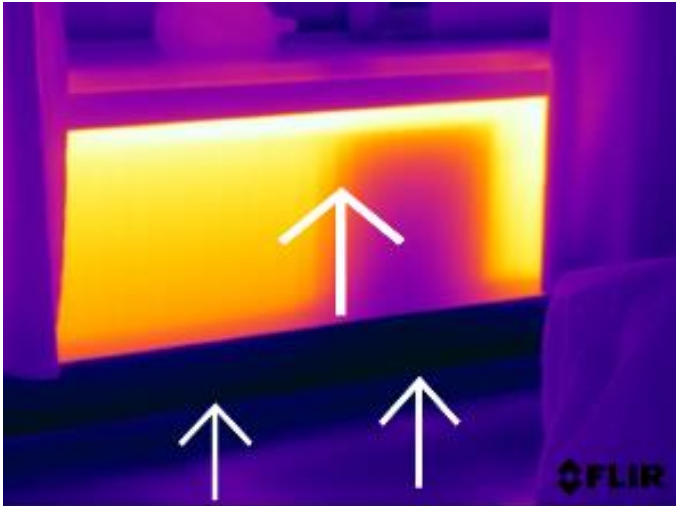


Image seven: The radiator in the room is not working at its full capacity.

Findings:

The inspection in this room reveals that there is significant heat loss in the corners of the room and as seen in other rooms there is a section running above the window that may be due to lack of insulation that may need to be looked at further. There is heat being lost also along the skirting boards in this room and can be seen in the back wall, in the corners and along the bottom the walls. This may also be from insufficient insulation that requires more advise. The radiator might need to be bled as there is a cold spot that can be seen in the centre.

Location: Sitting room – Ambient temperature 21°C

Image one

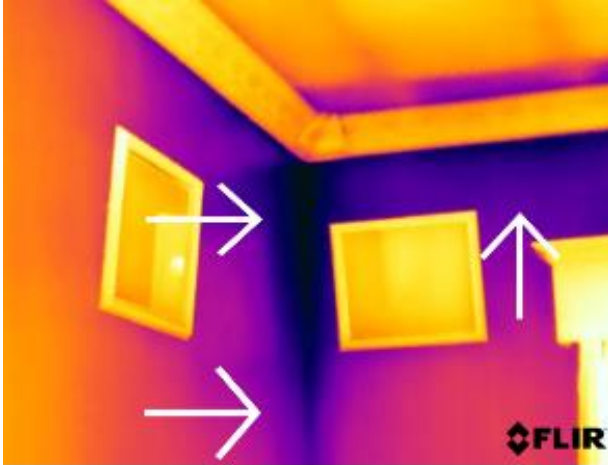


Image two

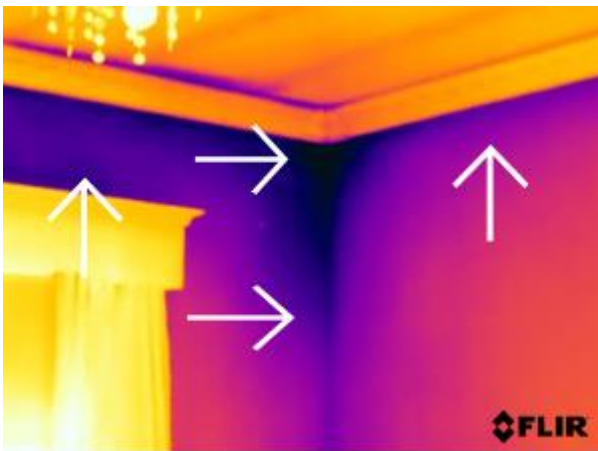


Image one and two: Heat loss visible in the top corners of the room that run between the top of the window and the ceiling.

Image three

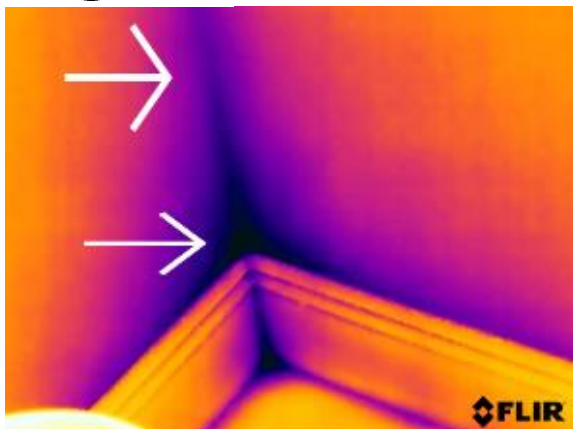


Image three: Heat loss visible of 10°C

Image four

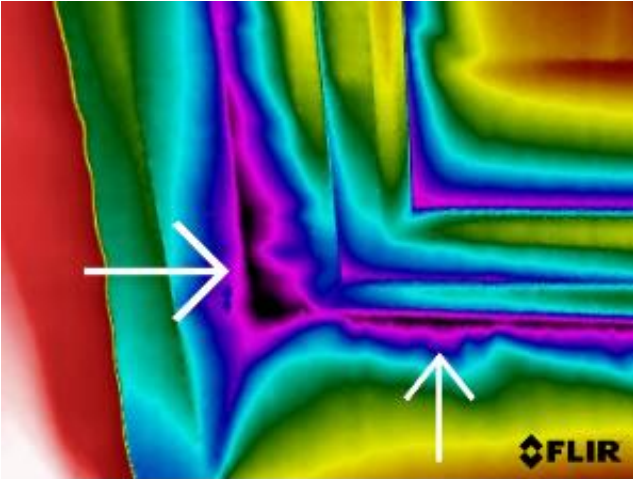


Image five

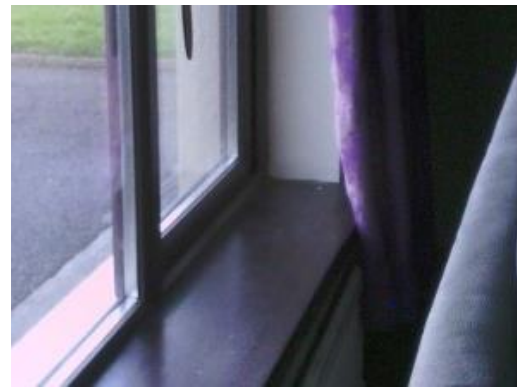
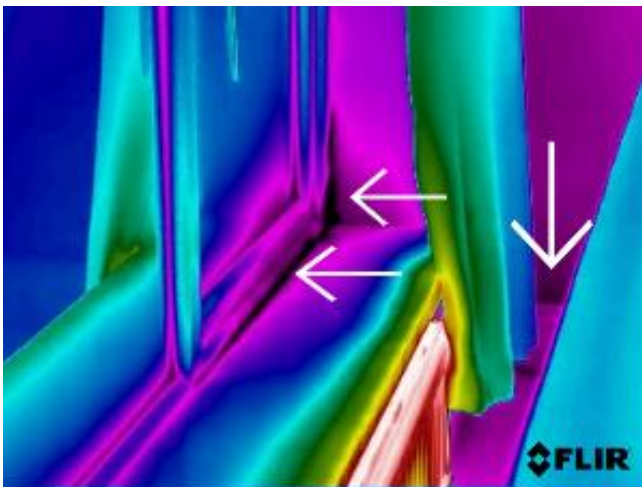


Image four and five: Air filtration in the corners of the windows of up to 9°C.

Image six

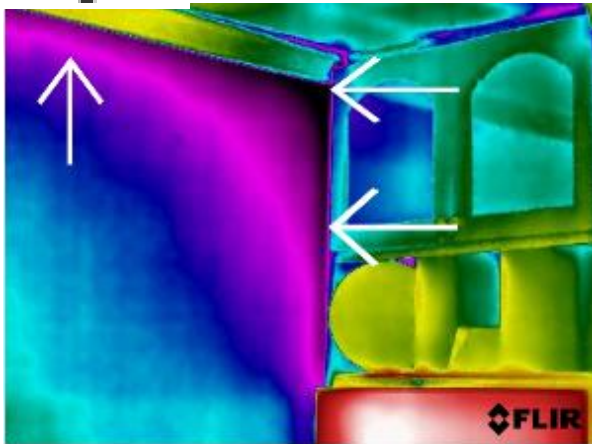


Image seven

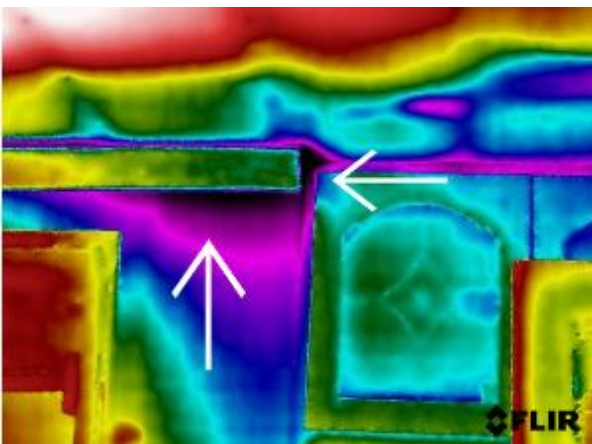


Image eight

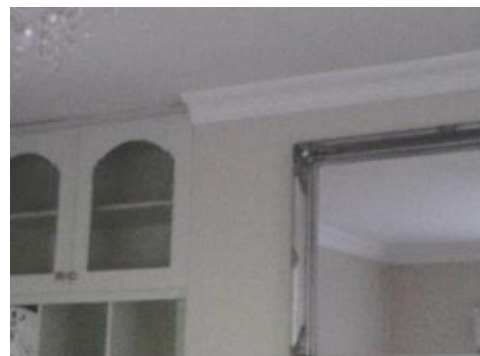
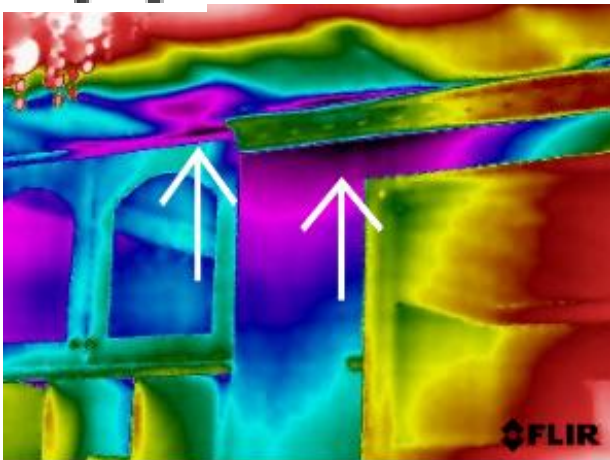


Image six, seven and eight: Heat loss can be seen as the black in these images either side of the top of the chimney breast and the top left corner above the tv.



Findings:

There seems to be areas of heat loss in the corners of the room and in the areas of purple/black in the images. This may be due to issues with insufficient insulation that should be investigated further.

The seals on the windows should also be looked at as there is air filtration in the corners.

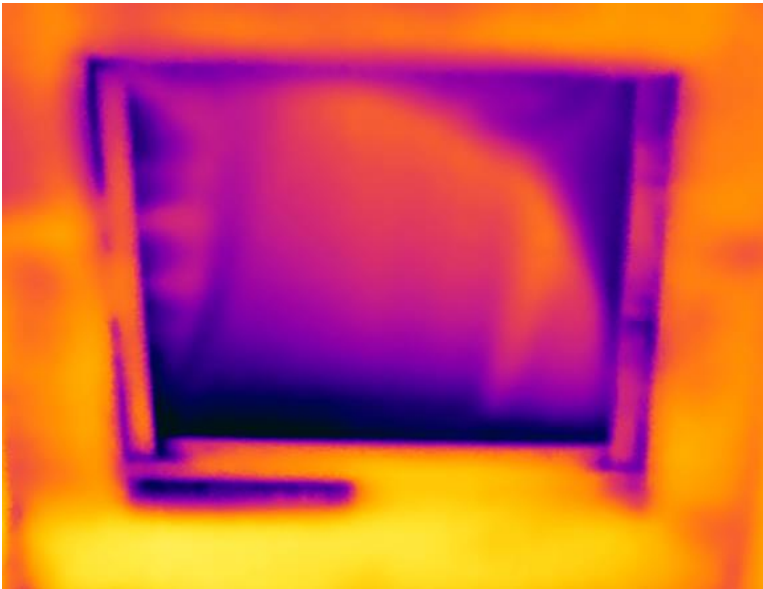
Location: Front Door



Findings:

It is clear from this image of the front door that there is significant heat loss from the window panes. It might be beneficial to look at upgrading the glass panels here. Temperature loss of 10°C.

Location: Attic door in the hall



Findings:

This makeshift attic door is a source of major heat loss in the home.

It would be beneficial to consider replacing this and have a door with seals in its place if possible.