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Thermal imaging report for;
16 Willingham Way,
Kingston on Thames,
London,
KT1 3JA.

Findings.

- 1) Around the ground floor ceiling there was evidence of air infiltration between the ceiling and upstairs floor. The construction of the ceiling/ floor joists at the front and back of the building has short joists, approx 1.2m long, running at right angles to the front and rear walls and meeting longer joists spanning from the gable end to the party wall. These spanning joists effectively seal the end of the shorter joists and prevent the air from penetrating any further. These shorter joists will ideally require sealing up where they meet the external wall.
- 2) Draught around the front door, the door can be adjusted to tighten the seal which will stop the draught.
- 3) Above the kitchen window at the left hand side there was a cold spot on the wall, this looked like it may have been a kitchen extractor fan at one time that has since been removed. The hole may have been covered over but not insulated.
- 4) The heating boiler is situated in the corner of the kitchen, a better position for this would be the opposite corner to the right of the kitchen sink, this would put the hot water at the nearest point to the sink and bathroom, minimising the length of pipe run and reducing waste heat cooling in the pipework. The livingroom windows are losing some heat and cold areas are present around them. The following links are for Berglund Windows who supply high quality Danish windows.

<http://www.stmvinduer.dk/defaultuk.asp>

sales@bhbwindows.plus.com

- 5) The loft hatch has draughts around it which need sealing.

- 6) The loft insulation is lacking in many areas, when installing the loft insulation particular attention should be paid to detailing into the area where roof meets the eaves, this area is often missed by allowing for ventilation. Careful detailing should enable both insulation and ventilation to be sufficient. If the loft area is to be used for storage, insulating boards can be installed over the joists which will accommodate storage areas, see link below.

<http://www.insulatedloftboard.co.uk/index.php>

Conclusion.

Some improvements have been made to this house, which have made a significant difference to the areas so far completed. There is still a long way to go but with similar improvements to the rest of the house, paying particular attention to detailing and sealing up all hidden areas of air infiltration, further significant energy reduction will be achieved.

If you have any questions or require any further advice, please contact me.