# Welcome to the dining room

## External wall insulation

Addressing heat loss is a vital first step in any retrofit project. By minimising the amount of heat lost through the fabric of the building, homes become warmer and more efficient almost instantly.

According to Energy Saving Trust, a huge **25%** of heat is lost through uninsulated roofs, while TheGreenAge estimates that **35%** of heat is lost through uninsulated walls and a further **10%** is lost through the floor.

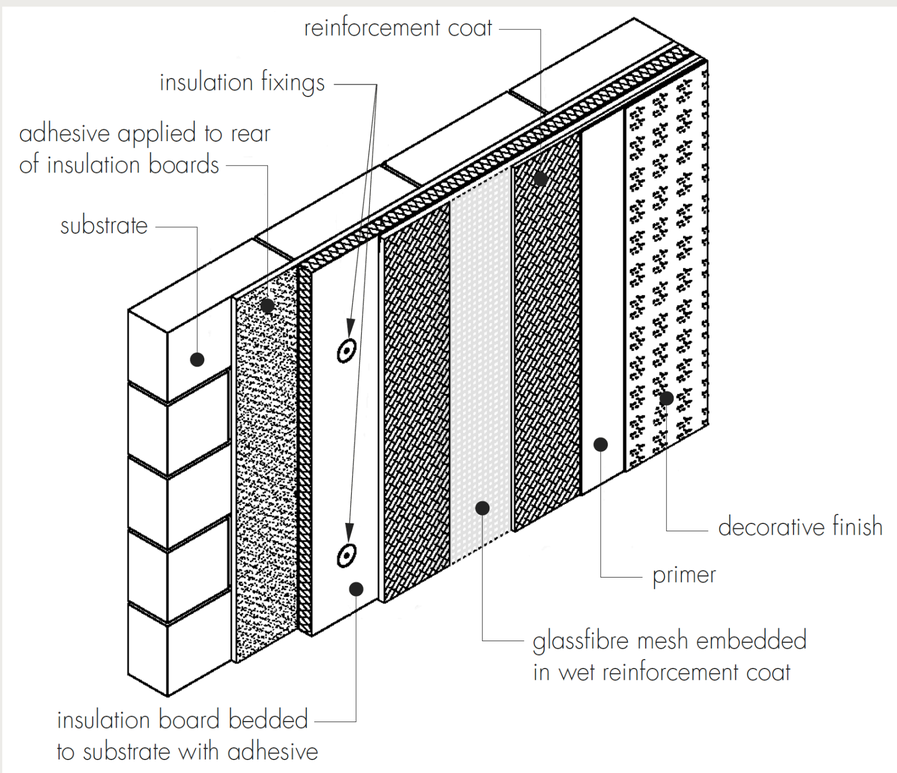
| £12,081 | £341 | 890kg |
|---|---|---|
| **Cost (will vary by property)*** | **Savings per year*** <br> *this includes internal wall insulation | **$CO_2$ savings*** |

While cavity wall insulation is common in homes built after 1920, older properties like 47 Greenleaf Road typically have a solid wall envelope. There is no cavity to fill with insulation materials, so it was vital to find an alternative. Thanks to developments in building materials, there is now a wide range of external wall insulation options available on the market.

Typically, these are cut to shape and attached to the outside of a property before being rendered and painted. Most are designed to last for the life of the property, providing a long-lasting solution to heat loss in period properties. 90mm Rockwool insulation slabs were chosen for the retrofit. Not only are they **97% recyclable** and renewable but they are also non-combustible.

External wall installation against the existing house.

Final render of the external wall insulation.




# Internal wall insulation

One of the main attractions of a period property like 47 Greenleaf Road is its striking red-brick Victorian facade. Unfortunately, adding external wall insulation to the front of the property would mean hiding the appearance, which isn't allowed in a conservation zone.

The solution was internal wall insulation, which was installed at the front of the property. We selected a 60mm insulated plasterboard, featuring a 12mm layer of Celotex on one side. Designed to have a low profile, this option was chosen because it does not encroach upon the rooms and is a low fire risk.

It was applied to the interior walls with a 'dot and dab' wet adhesive before it was levelled out and covered with plaster for a smooth finish, which could be decorated with paint or wallpaper.

Installation of the internal wall insulation.

Aston Group

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