

Info from NIA Insulation

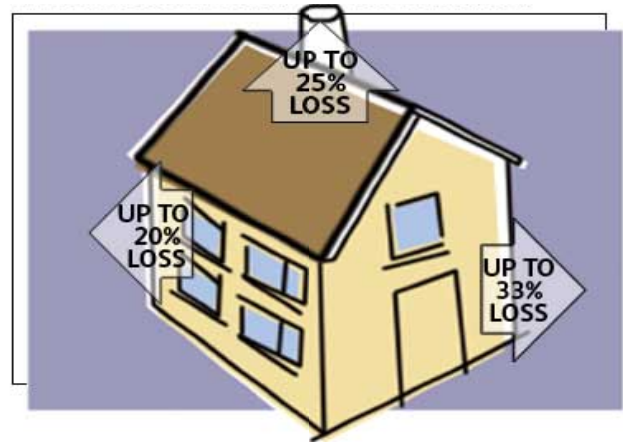
Up to 25% loss through the roof

Up to 20% loss through windows and doors

Up to 33% loss through walls

Insulation reduces your energy consumption for heating leading to:

- Lower heating bills
- Lower 'wear and tear' on your boiler
- Reduced Global Warming and Climate Change



The National Insulation Association (NIA) has more details www.nationalinsulationassociation.org.uk

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Information from the Energy Saving Trust

Cavity Wall insulation

'Up to 33% of the heat produced in your home is lost through the walls.'

- Cavity Wall insulation is quick, clean and relatively inexpensive, where insulation is injected into the cavity between the inner and outer leaves of brickwork that make up the external wall of your property.
- It will create an even temperature in your home, help prevent condensation on the walls and ceilings and can also reduce the amount of heat building up inside your home during summer hot spells.
- Can save about £130 - £160 a year on your bill

Solid Wall insulation

Solid walls lose heat quicker than cavity walls and they are harder to insulate.

External Wall Insulation is more expensive than cavity wall insulation but can save between £290 - £350. It involves adding a decorative weather-proof insulation treatment to the outside of your wall, about 50 to 100mm thick.

Internal Wall insulation

1. Ready-made insulation/plaster board laminates, thickness up to 90mm.
2. Wooden battens in-filled with insulation, with the space between the battens filled in with insulation and then covering them with plasterboard. Cost start from £40 per square meter, saving between £270 - 340 a year
3. Flexible insulating linings, a form of dry lining, cheaper and less disruptive to install, but savings are lower with about £90 - £100 a year.

NOTE - 1 and 2 can be expensive and disruptive to existing buildings

Loft Insulation

- Insulation in your loft prevents heat loss in winter (and also heat gain in summer)
- Reduces your energy consumption for heating leading to:
 - Lower heating bills
 - Lower 'wear and tear' on your boiler
 - Reduced Global Warming and Climate Change
- Loft insulation should be the recommended depth of 270mm

As much as a third of your heating costs could be escaping through your roof. Loft insulation is a very effective way to reduce your heating bills.

There are a number of grants available which can substantially reduce the cost of installing this product and you should contact your local installer to see if you are eligible.

Generally loft insulation work by preventing the movement of heated air through the insulation material. The fibres of matting insulation trap air within it, for the matting to be effective, the weave should not be over stretched or compressed as the structure trapping the air may be destroyed.

What Materials are Suitable ?

There are three types of British Standard material, all suitable for simple 'topping-up', leaving the existing insulation in place.

- mineral wool quilt
- blown mineral wool
- blown cellulose fibre



FACTS and STATS:

A fifth of all the heat lost from a home can be through poorly insulated window frames and single glazing.
(est)

The amount of heat lost in homes annually through roofs and walls is enough to heat three million homes for a year

If everyone in the UK installed cavity wall insulation, we would cut CO2 emissions by 9 million tonnes.
That's enough to fill nearly 51 million double-decker buses

If every household in the UK installed cavity wall insulation, it would save £670 million a year – or enough energy for 1.8 million homes for the same period

If everyone in the UK installed loft insulation up to 250mm thickness, the equivalent financial saving would pay the energy bills of 635,000 families for a year.