

General Insulation advice sheet for internal & external solid wall insulation

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Solid wall properties can have insulation carried out internally or externally. The choice of either insulating internally or externally will depend on a number of factors and the suitability would have to be checked at the time of survey.

Typical Internal dry lining detail. (dependant on material used, may require timber ladder frame behind insulated board. Insulation thickness various)



Internal insulation

- Can be fixed to timber studs or directly to the internal wall. The method of fixing depends on a number of factors i.e. the insulation material used and the existing surface condition of the wall.
- There are many different dry lining insulation products which can be used to improve the insulation in your home.
- The insulation material improves the thermal performance through the wall without changing the external appearance of the property.
- Following the completed works the walls will be plastered with a skim coat ready to receive decoration with paint or wallpaper. There are normally minor alterations to the electrics and plumbing required.
- Depending on the thickness of the product used there will be a slight reduction in the floor space of the rooms and head height in an attic bedroom situation. The work can be carried out on a room by room basis reducing the inconvenience during the works.
- If you are changing the major fittings in the kitchen or bathroom or planning to re-decorate a room, this would be the ideal time to include internal dry-lining insulation.



External insulation

- Planning permission maybe required, as the external appearance of the property will be changed. An external insulation system could also cure damp or water penetration from the outside, if this is a problem.
- External insulation can be provided with a number of different products and finishes. The insulation is fixed to the external envelope of the property with a decorative finish.
- With this system there is no internal disruption or loss of any internal floor space although there would be an approximate increase of between 100-150mm overall thickness of the outside walls.

Above: example of externally insulated brick cladding system.

Below: example of externally Insulated rendered system.



Both Internal and external insulation

- Can help to reduce condensation within the property.
- Heating bills can be reduced by 35%*
- The guide price typically would cost between £60-£95m2 which would depend on thickness and type of insulated board chosen. Each property will require an individual survey and advice given before a quote is provided.

Measure	Annual saving per year (£)	CO ₂ saving per year
External wall insulation	Around £490	Around 1900kg
Internal wall insulation	Around £460	Around 1800kg

- Please contact the Calderdale Council's Energy Action Team for more information on 0845 245 6000 or email heat@calderdale.gov.uk
- Some images used with kind permission of Dyson Insulation.



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