

savings today, saving tomorrow



Energy
Assessment
Goals
Laterally
Explained

REPORT 2020

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energy partnership



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Mr and Mrs Broadbelt

38 Front Street

Measures Suggested:

- Solid Wall Insulation installation
- Loft installation
- Gas Boiler installation
- Heating controls
- Floor insulation

Project objectives:

- Improve Energy Performance Certificate
- Reduce ongoing energy Costs
- Improve Carbon Footprint of dwelling
- Increase the value of the dwelling



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ENERGY
SAVINGS SOLUTIONS

THE IMPORTANCE OF WALL INSULATION IN HOUSE



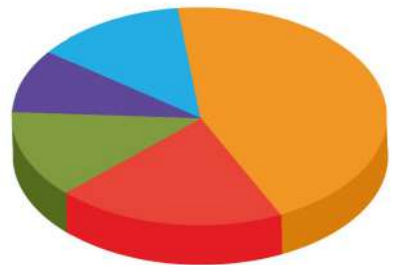
Buildings account for 40% of our energy consumption and in houses the majority of this energy is lost through the walls. Therefore insulation is one of the most cost effective improvements that can be made and there are various insulation options depending on how the home is constructed. In general, the walls in the home can be categorised into two distinct types. Modern style homes, usually built post-war (1945), are constructed with cavity walls. Older style homes are constructed with solid brick walls.

In a home with cavity walls, around a third of the heat which is lost escapes through the walls. Occupants can make savings around £135 per year* and see a return on investment within a couple of years by insulating their cavities.

However, solid walls can lose even more heat than cavity walls. Typically the total heat loss from an un-insulated house with

solid external walls account for 45%. Insulating solid walls can be more expensive than cavity wall insulation. However, higher savings can be achieved through internal or external insulation for solid walls saving the occupant up to £445 a year* and internal wall insulation offers a quicker payback than external wall insulation.

Where we Loose Heat



Walls 45%
Roof 20%
Ground Floor 12%
Windows and doors 9%
Draughts 12%



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FEATURE & ADVANTAGES OF SWIP IWI SYSTEM

Features of the SWIP IWI System

- A cost-effective, thermally efficient solution.
- Quick and easy to install so rooms are out of commission for the minimum period.
- Can improve the acoustic performance of the existing external wall.
- Finished using a plaster skim coat or dry lining techniques.
- No need to remove existing wall finish, unless un-sound.
- System can accommodate wall imperfections.
- Easily adapted around openings such as windows and doors.
- Can easily accommodate fixings for fittings such as radiators, pictures and shelving.

Benefits of the SWIP IWI System.

The use of SWIP Studs eliminates the thermal bridging issue associated with systems incorporating timber and metal studs. The thermal resistance of SWIP Studs, provides a high

level of thermal resistance, which is comparable to that of the Earthwool SWIP Batts fitted between the SWIP Studs. For instance, the SWIP IWI System is almost 13% more thermally efficient than a timber stud system of the same thickness.

Compared with other internal insulation methods, the SWIP IWI System has the following additional advantages:

- The system components are unaffected by moisture.
- A minimum number of lightweight easy to handle, components are required.
- System thickness is comparable to alternative solutions, but greater thickness can be provided simply by installing two studs, one on top of the other.
- Airtight systems enables maximum thermal efficiency to be achieved.
- Incorporates highly sustainable glass mineral wool insulation.
- Earthwool SWIP Batts have the maximum Euroclass A1 reaction to fire rating.

Thermal Performance

A typical 225mm thick un-insulated masonry external wall with dense plaster internally will achieve a U-value of 2.00W/m²K. The same wall insulated with the SWIP IWI System, using 95mm thick SWIP studs, will achieve a U-value of at least 0.30W/m²K, an improvement in thermal performance of over 80%.

Double Stud Installation

Enhanced thermal performance can be achieved by installing double layers of SWIP Studs. For instance, a combination of two 65mm SWIP Studs will achieve a U-value of 0.25W/m²K. After securing SWIP Studs in accordance with the installation instructions, screw fix a second SWIP Stud should be installed in the vertical position. When fixing, the screws should be sufficient to ensure a minimum 38mm penetration into the first SWIP Stud. Earthwool SWIP Batts are installed in the same manner as in a single stud application.

Logic Combi

C24 C30 C35

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YEAR WARRANTY*



Compact
cupboard fit



Easy to see
pressure gauge



Touch RF &
Touch Connect
Compatible



NOx class 6



Frost protection



Easy to use fully
back-lit LCD
display



UP TO
£19

EARN INSTALLER CONNECT
POINTS FOR EVERY LOGIC
COMBI YOU REGISTER

www.idealboilers.com |

*2 year parts and labour warranty available when registered within 30 days of installation.



welcome to our ideology

Features & specification

QUALITY AND RELIABILITY AS STANDARD

- Low component count maximising reliability
- Latest generation Honeywell gas valve
- Simple diverter valve design with no dynamic seals
- Ideal System Filter compatible

EASY TO INSTALL AND SERVICE

- Low boiler lift weight from 28.9kg
- Compact cupboard fit
- Easy to see pressure gauge
- Universal condensate connection
- Stand-off kit and pre-pipe options
- Wide range of flueing options
- Preformed copper tails
- Pre-wired mains lead (2m) & spare fuses included
- Built-in filling loop

END USER BENEFITS

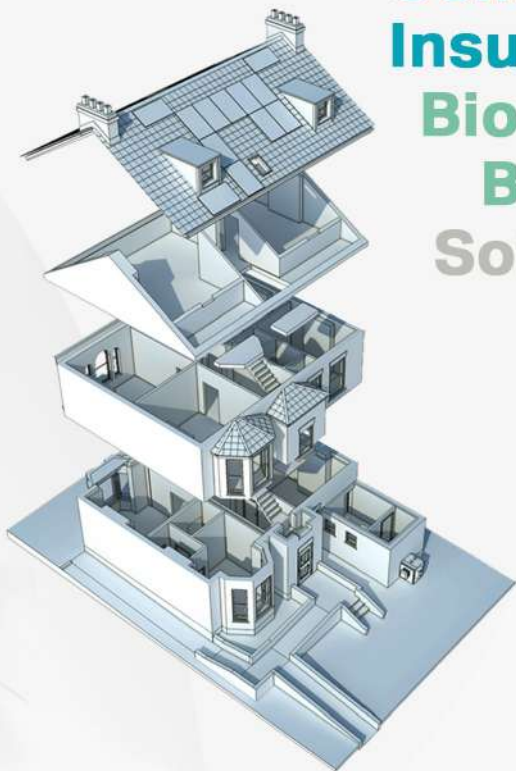
- Award winning range
- Service indication
- Pre-heat function
- Symbols and text display
- Visually impaired user fascia option
- Compatible with a range of additional controls inc. weather compensation and OpenTherm controls
- LPG conversion kit available for 24 & 30 kW boilers

Humber Renewables
& Green Energy
awards 2015
WINNER

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Energy
Consultancy
Solid Wall
Insulation
Biomass
Boilers
Solar PV



COME VISIT OUR ENERGY SUPERHOME

497 Anlaby Road, HU3 6DT

Stage

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I would like to be included in future correspondence
from Halltech and associated partner, and my email address is:

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