

Take a closer look
at the **real** performance



✓ Increase Air Tightness

✓ Easy Install

✓ Performance Assured

✓ Maintenance Free



Gapotape

Gapotape is a revolutionary new product that has been specifically designed to eliminate the performance gap and form a thermal seal around the edges of rigid insulation panels in floors, roofs and walls.

Up until now, rigid insulation has been impossible to install between rafters, studs and joists without airgaps as even the most meticulous installations suffer from inevitable shrinkage, warping and movement of timber elements. This means that the 'as built' U-value of rigid insulation is much less than its 'as specified' U-value. This 'performance gap' is one of the biggest issues in the construction sector and is a problem for almost all insulation types, most of which have no remedy.

BBA testing illustrates that with Gapotape, rigid insulation's 'as-built' performance can be up to 5 times better as it will constantly expand to fill any space around the board. No other rigid product is capable of expanding on all sides in this manner making rigid insulation fitted with Gapotape truly unique in this application.

Gapotape offers the first holistic non-permeable insulation solution. For the consumer this will ultimately result in a more comfortable living environment, not to mention £1,000's of fuel savings throughout the lifetime of the build.

"When Gapotape is installed around the perimeter of PIR ridged insulation boards, with no air gaps and a tight fit on all four sides the correction level 0 for air voids can be used when calculating U-values to BS EN ISO 6946.

Without Gapotape installed a correction for air voids level of 1 or 2 may need to be added to the U-value calculation giving a poorer result".



British Board Agrément
Assessment report - April 2015

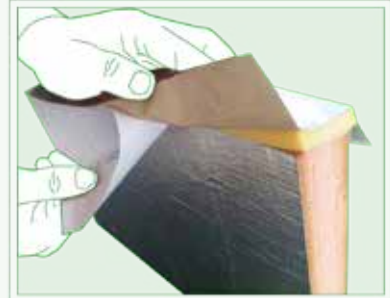
We ran parallel tests with the BBA to show the variance between 2 build types using 100mm Rigid Insulation between rafters. Under the stewardship of the National Physics Laboratory (NPL) The NPL Rotatable Wall Guarded Hot box calibration is traceable to National Standards using the measurement procedures defined in the standard BS EN ISO 8990, the results speak for themselves.

Construction Detail	Test Number	Environmental Temperature °C	U-value W/(m²K)
Pitch Roof without <i>gapotape</i>	R162(B)	12°C	1.51
Pitch Roof with <i>gapotape</i>	R162(D)	12°C	0.31
Pitch Roof with plasterboard & without <i>gapotape</i>	R162(A)	12°C	0.65
Pitch Roof with plasterboard & with <i>gapotape</i>	R162(C)	12°C	0.31

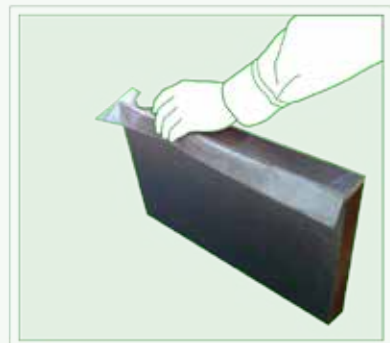
Note: Prior to testing the structure modeled at U-value of 0.30 W/(m²K) using the calculation methodology that is specified in BS EN ISO 6946.

gapotape

3 step Instalation process



Peel



Position



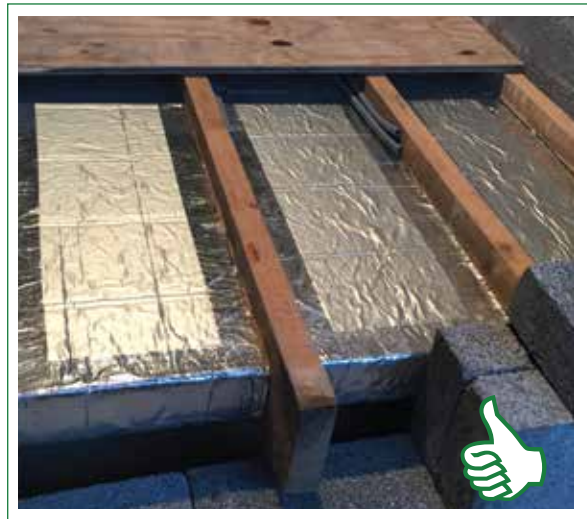
Push



Floor



Floor 1

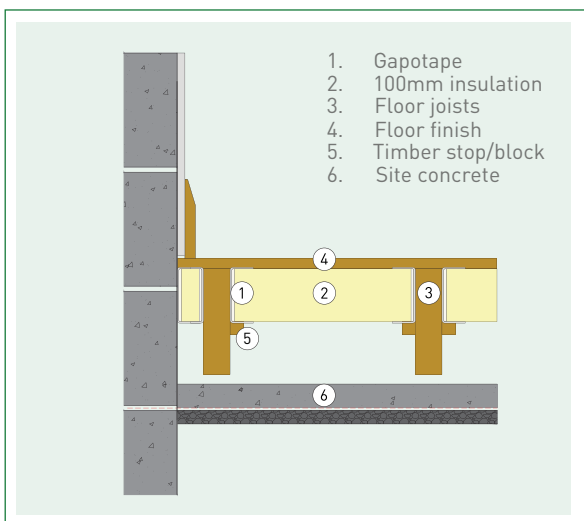


Floor 2

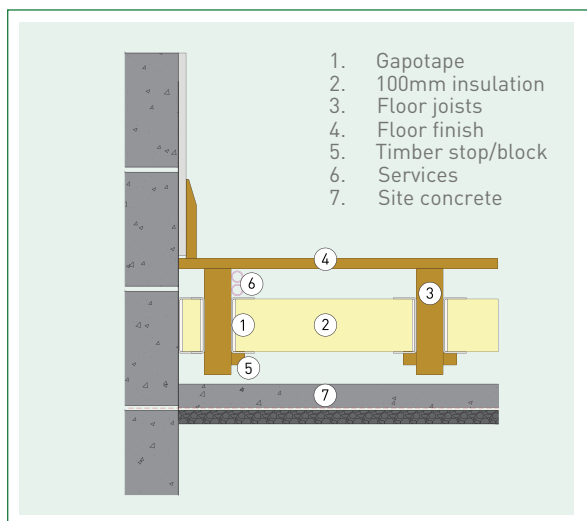
Floor Installation

With Gapotape the thermal seal is created at the level of the insulation. During installation simply cut the rigid insulation panels 8mm smaller than the designated aperture and fit Gapotape under compression on all sides. If a service void is required simply fit the reference blocks to the sides of the joists at a depth equal to the thickness of the insulation plus the void required. (The only equipment needed to fit Gapotape is a pair of scissors).

“ 15% of your homes heat will be lost through the floor. ”



Traditional Install



Allow for Service Void

Walls



Wall 1

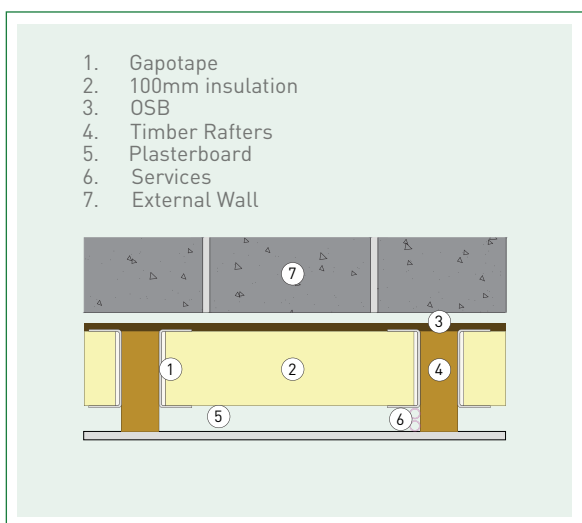


Wall 2

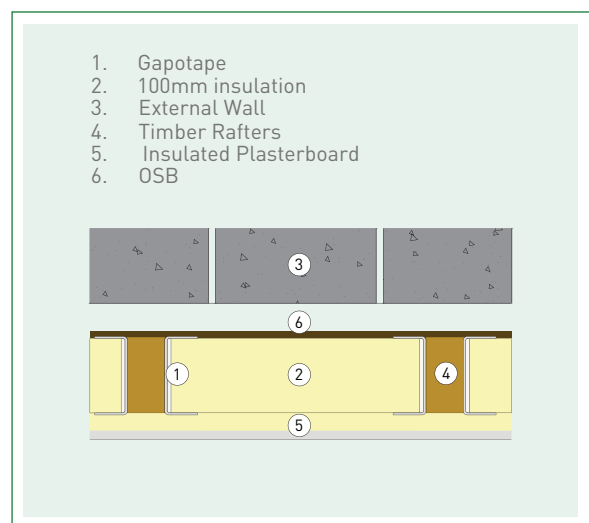
Wall Installation

Fitting Gapotape and rigid insulation panels within a stud wall is similar to the floor except that reference blocks should not be needed as the friction fit will be sufficient to hold it in place. As with the floor scenario, the rigid insulation can be advantageously positioned in the stud wall to allow for services such as electrics. Once again, Gapotape will maintain the thermal seal of the building behind the services, mitigating the need for additional air tight membranes.

“ 35% of your homes heat will be lost through the Walls ”



Wall Detail with Service Void



Flush with Insulated Plasterboard

Roof



Roof 1

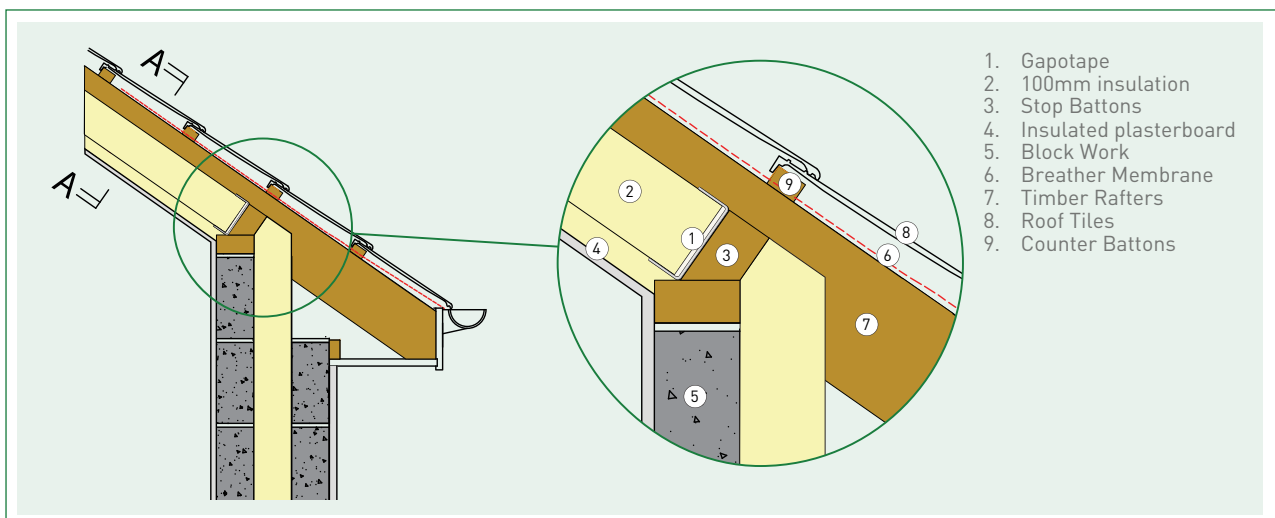


Roof 2

Roof Installation

When fitting Gapotape in the roof, reference blocks and noggins are required to support sections of rigid insulation panels that require angular cuts. Good compression with Gapotape can then be achieved with the square and parallel sections of rigid insulation, delivering a thermal seal. Where rooms are created in the loft, rigid insulation is the desired product to maximise habitable space; the fitting of Gapotape to this insulation will ensure it performs to its specified U-value.

“ 25% of your homes heat will be lost through the roof. ”



Pitched Roof Detail

Benefits

One of the major benefits of Gapotape is that it is easy to install: simply cut the rigid insulation panel 8mm smaller than the aperture it's going into; attach the tape to the edges of the board using the self-adhesive wings; and squeeze the panel into position (eg between rafters). The resulting tight fit can accommodate up to 12mm of movement, so the insulation will maintain a good seal even as the timber expands and contracts or the structure settles - ensuring air-tightness throughout the life of the building.

Judges Verdict - BuildIt 2015



This is a novel product that solves a very real problem: how to ensure an effective thermal seal when installing or retrofitting rigid insulation. It's sure to become popular among both professional trades and DIYers.

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Members of:



Report 1: The Problem



Report 2: The Tests



Report 3: The Solution

Get all the facts at
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