

ThermaQuilt

Multi-layer insulation Blanket

Thermal insulation in 9 layers, 32mm thin, flexible, multi-layer membrane

High thermal resistance

- Keeps your house warmer in winter, cooler in summer
- Insulation for every application
- Meets building regulations
- Ideal for new build & refurbishment
- Effective solar over heating barrier
- Lightweight, flexible & thin
- Fast and simple installation
- Fully certified for pitched roofs



Insulation for roofs, walls and floors

Technical Guide

To Order ThermaQuilt at the lowest Prices

Multifoil-Insulation.com

Order Online or by calling us on 0114 323 0029

UK and European Distributors Specialising in
Multifoil Insulation Solutions

Insulation for use in roofs, walls and floors

Benefits

- **High thermal resistance**
- **Ideal for loft conversions**
- **Fast and simple installation**
- **Lightweight and flexible**
- **Warmer in winter and cooler in summer**
- **Roll size 1.2m x 10m**
- **Uncompressed thickness 32mm**
- **9 layers**

ThermaQuilt is a very flexible, easy to fit, multi-layer insulation thermally tested achieving a high thermal resistance of up to $2.07\text{m}^2\text{K/W}$ for ThermaQuilt accompanied by a 38mm air cavity either side of the material.

How does ThermaQuilt Work?

Due to the special composition of multi-layers of insulation, ThermaQuilt effectively deals with all forms of energy transfer (i.e. conduction, convection and radiation). ThermaQuilt works most effectively by reflecting infra-red radiation. This means that not only is ThermaQuilt effective in winter by reflecting heat back into the building and cold out, but also in summer. ThermaQuilt is a very effective barrier to solar overheating which reduces the need for artificial cooling systems as it prevents the accumulation of heat within the building.

General fixing instructions

Installation of ThermaQuilt for pitched roof applications and additional insulation products should be in accordance with the manufacturers certificate, fixing instructions and current good building practice.

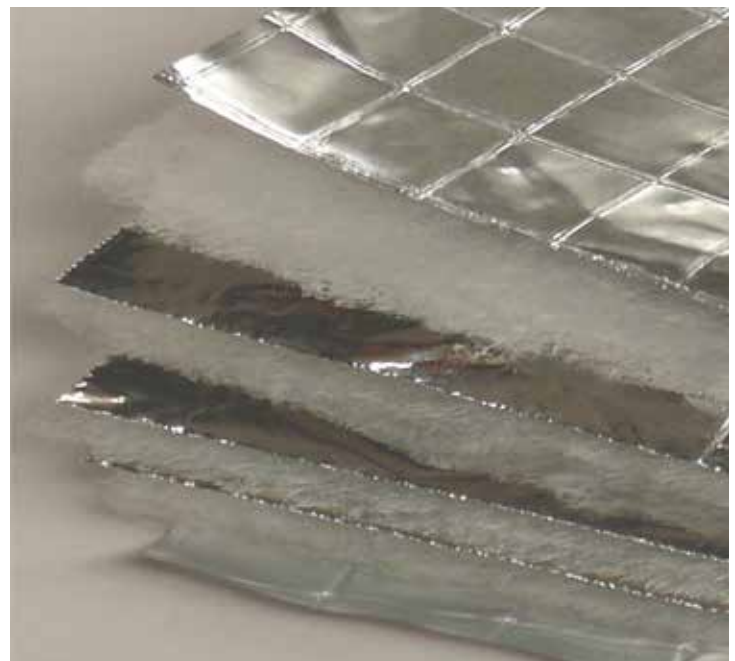
ThermaQuilt must be installed with a 50mm overlap with all joints taped with YBS 75mm foil tape.

ThermaQuilt can be cut with a YBS ThermaQuilt cutter, craft knife or a sharp pair of scissors.

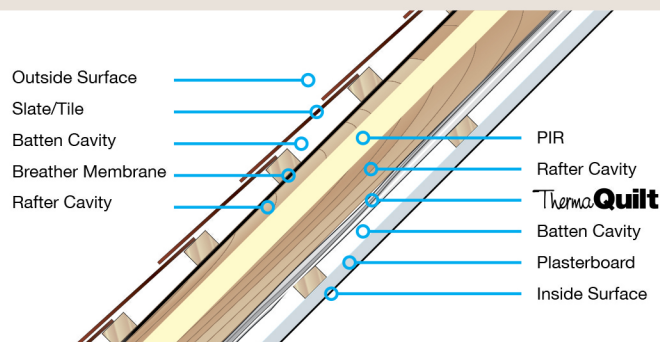
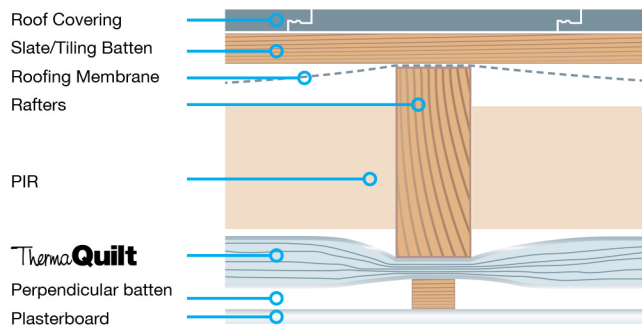
ThermaQuilt can be easily fixed with staples at regular intervals. Minimum 14mm stainless steel or galvanised staples are recommended.

ThermaQuilt is most effective with a minimum 38mm air gap on either side. Battens can be used to create this gap.

No protective clothing/handling required.



Under Rafter Detail



Description (rafters at 400mm centres)

ThermaQuilt and 100mm PIR

ThermaQuilt and 170mm Mineral Wool

Description (rafters at 600mm centres)

ThermaQuilt and 90mm PIR

ThermaQuilt and 150mm Mineral Wool

U-Value

0.18 W/m²k

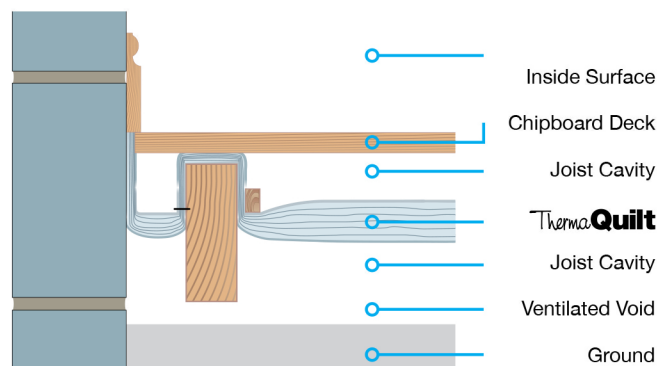
0.17 W/m²k

U-Value

0.18 W/m²k

0.17 W/m²k

Suspended Timber Floor



P/A Ratio

U-Value

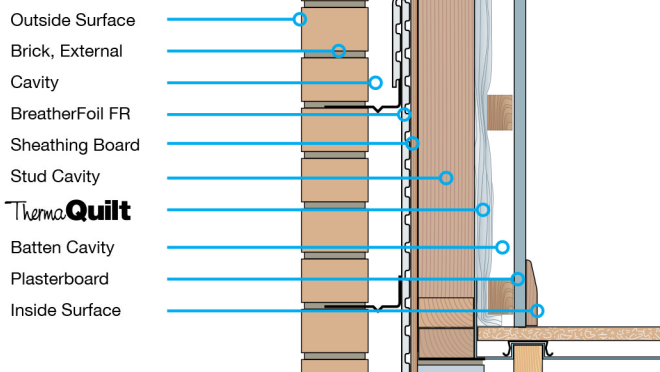
(with 50mm Cavity above)

U-Value

(with 100mm Cavity above)

0.1	0.17 W/m ² k	0.16 W/m ² k
0.2	0.23 W/m ² k	0.21 W/m ² k
0.3	0.27 W/m ² k	0.24 W/m ² k
0.4	0.29 W/m ² k	0.26 W/m ² k
0.5	0.31 W/m ² k	0.27 W/m ² k
0.6	0.32 W/m ² k	0.28 W/m ² k
0.7	0.33 W/m ² k	0.29 W/m ² k
0.8	0.34 W/m ² k	0.29 W/m ² k
0.9	0.34 W/m ² k	0.30 W/m ² k
1.0	0.35 W/m ² k	0.30 W/m ² k

Timber Frame



Description

ThermaQuilt, YBS Breather Foil FR and 70mm PIR

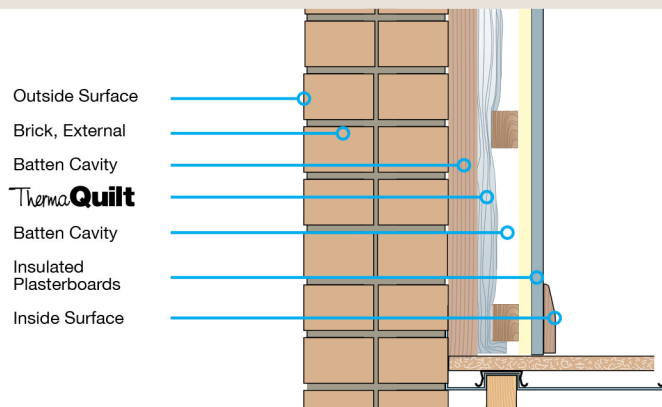
ThermaQuilt, YBS Breather Foil FR and 50mm Mineral Wool

U-Value

0.18 W/m²k

0.24 W/m²k

Dry Lining



Description

ThermaQuilt and 32.5mm PIR backed insulated plasterboard (20mm PIR & 12.5mm plasterboard)

U-Value

0.30 W/m²k

ThermaQuilt



Technical Properties

Product Description		
9 Components		
Thickness	32mm approx.	
Weight	580g/m ²	
Mechanical Properties	Value	Reference Standard
Thermal performance		
Core	0.77m ² K/W	BS EN 16012
Roof	1.85m ² K/W	BS EN 6946
Wall	2.07m ² K/W	BS EN 6946
Floor	3.14m ² K/W	BS EN 6946
Flammability	Class F	BS EN 13501-1
Water vapour resistance	1569MNs/g	BS EN 12572
Emission coefficients of surfaces	0.05	BS EN 16012
Tensile strength	142KPA	BS EN 1608
Packaging	12m ²	
Width	1.2m	
Length	10m	
Weight	6.5Kg	

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