

# Multi-layer insulation Blanket

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

High thermal resistance



Insulation for roofs, walls and floors

Technical Guide





## 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
- Uncomressed 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 2.07m<sup>2</sup>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.

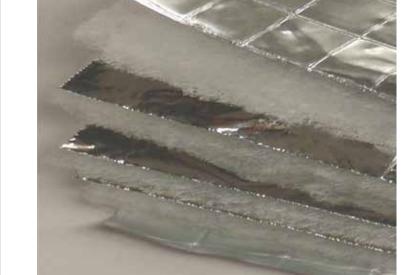
ThermaQuilt must be installed with a 50mm overlap with all joints taped with YBS 75mm foil tape.

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.

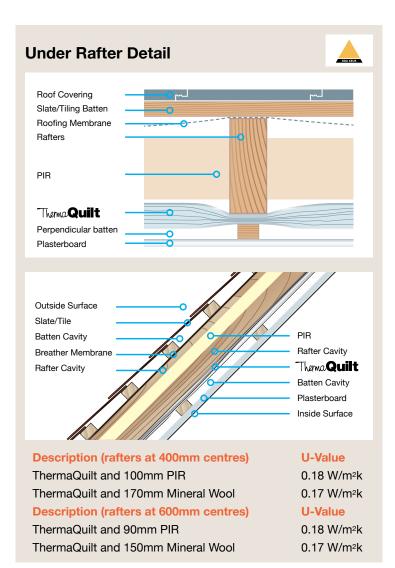
ThermaQuilt is most effective with a minimum 38mm air gap on either side. Battens can be used to create this gap.

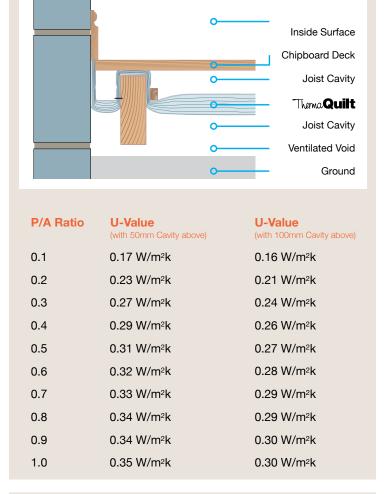
No protective clothing/handling required.



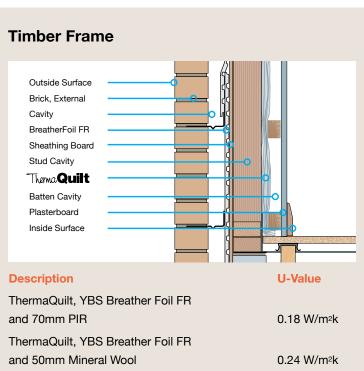


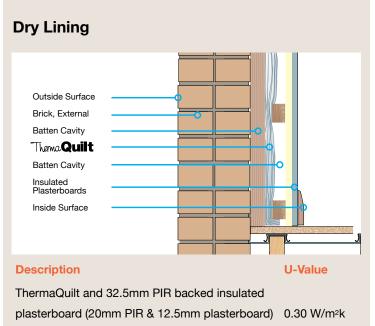






**Suspended Timber Floor** 











Technical Properties		
Product Description		
9 Components		
Thickness	32mm approx.	
Weight	580g/m <sup>2</sup>	
Mechanical Properties	Value	Reference Standard
Thermal performance		
Core	0.77m <sup>2</sup> K/W	BS EN 16012
Roof	1.85m <sup>2</sup> K/W	BS EN 6946
Wall	2.07m <sup>2</sup> K/W	BS EN 6946
Floor	3.14m <sup>2</sup> 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	12m²	
Width	1.2m	
Length	10m	
Weight	6.5Kg	

