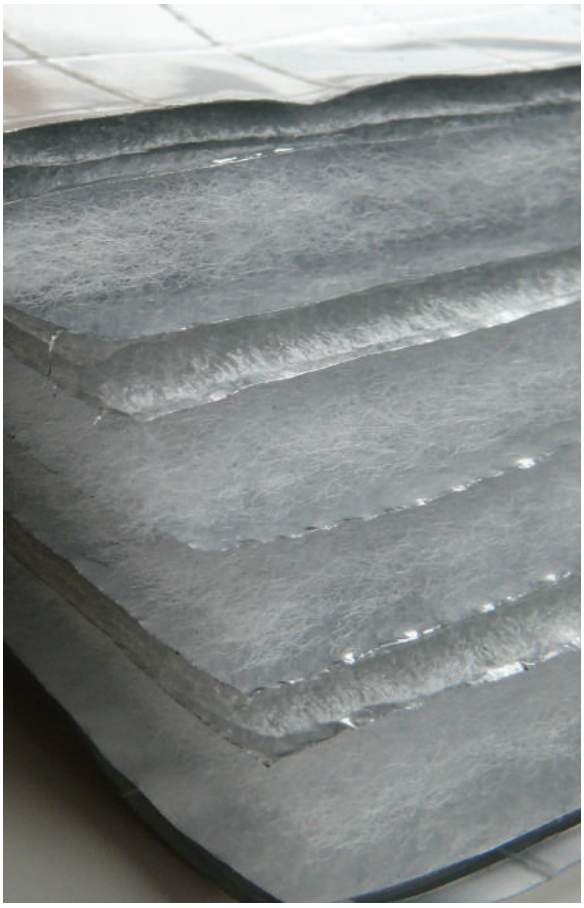
SuperQuilt

Multi-layer Insulation Blanket for Roofs, Walls & Floors



The Highest Performing Certificated MultiFoil on the Market

registered LABC | BDA KEUR | BBA British Board of Agrément | Warrington Fire research | Scottish Type Approval Scheme

Multifoil-Insulation.com

UK and European Distributors Specialising in Multifoil Insulation Solutions

Insulation for use in Floors

Benefits

- Fully certificated
- Fast and simple installation
- High core thermal resistance of 1.52m^{2}K/W
- Tear Resistant
- Effective in summer and winter
- For suspended & floating floors
- Lightweight, thin & flexible

SuperQuilt is a very flexible, easy to fit, multilayer insulation thermally tested in accordance with EN12667 achieving a high core thermal resistance of 1.38m^{2}K/W for SuperQuilt.

How does SuperQuilt Work?

Due to the special composition of multi-layers of insulation, SuperQuilt effectively deals with all forms of energy transfer (i.e. conduction, convection and radiation). SuperQuilt works most effectively by reflecting infra-red radiation. This means that not only is SuperQuilt effective in winter by reflecting heat back into the building and cold out, but also in summer, SuperQuilt 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 SuperQuilt for floor applications should be in accordance with the certificate, fixing instructions and current good building practice.

SuperQuilt must be installed with a 50mm overlap.

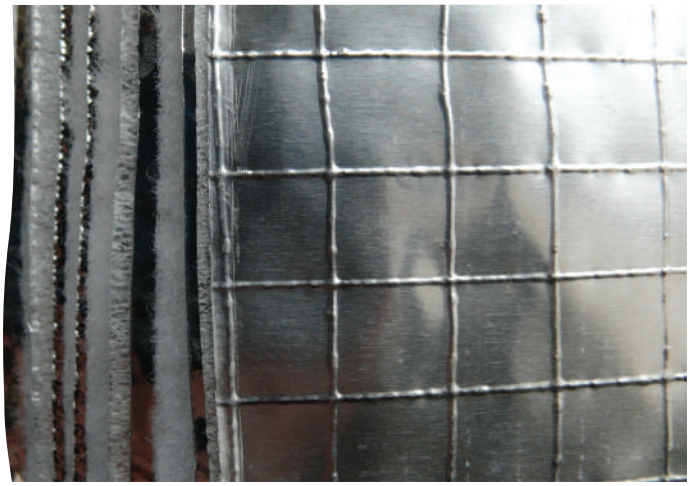
SuperQuilt can be cut with a craft knife or a sharp pair of scissors.

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

No protective clothing/handling required.

P/A Ratio

The heat loss in a floor is greater at the exposed perimeter edge of the floor. To calculate the U-value, the exposed perimter edge to area ratio needs to be worked out e.g. a 100m ^{2} area, semi-detached house with 3 external walls of 10m each has a perimeter to area ratio 0.3 (i.e. 30m : 100m ^{2} = 0.3).

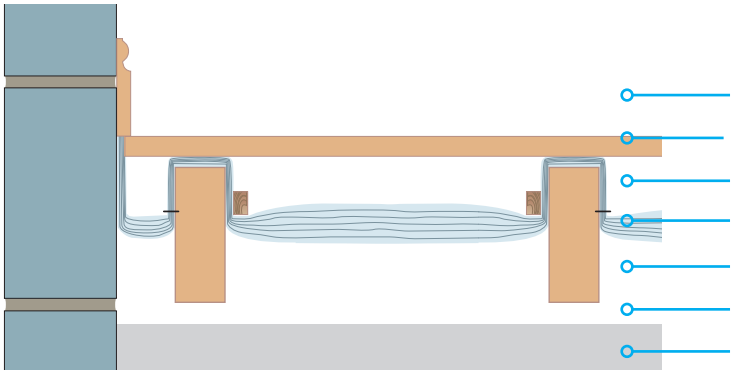


Suspended Timber Floor

Fixing Instructions

SuperQuilt is rolled out over the joists, then stapled in place to create required airspace or nailed in place through the saddle clips to maintain the required 50mm airspace (4 saddle clips per m^2). The horizontal joints are tightly overlapped and left open to allow any moisture accumulation to dissipate. SuperQuilt should be sealed around the perimeter or brought up above the floor deck. The decking is then fixed at 200mm centres with screws 37mm into the joists.

SuperQuilt can be used in conjunction with Pipe Clips to provide a channel for underfloor heating pipework. Visit our 'Things You'll Need' page for more information. (Please note that thermal outputs have not been tested with SuperQuilt)



Construction	Thickness (mm)
Inside Surface	-
Chipboard Deck	22.00
Joist Cavity	50.00
SuperQuilt	40.00
Joist Cavity	100.00
Ventilated Void	-
Ground	-

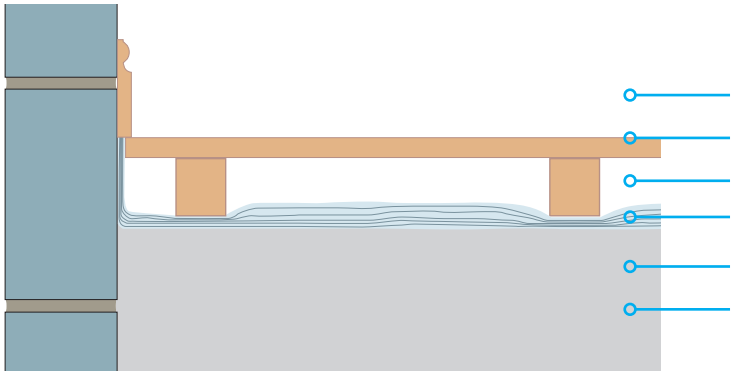
U-Value table

P/A Ratio	U-Value (with 50mm Cavity above)	U-Value (with 100mm Cavity above)
0.1	0.13 W/m ^{2}k	0.12 W/m ^{2}k
0.2	0.18 W/m ^{2}k	0.16 W/m ^{2}k
0.3	0.21 W/m ^{2}k	0.18 W/m ^{2}k
0.4	0.22 W/m ^{2}k	0.20 W/m ^{2}k
0.5	0.24 W/m ^{2}k	0.20 W/m ^{2}k
0.6	0.24 W/m ^{2}k	0.21 W/m ^{2}k
0.7	0.25 W/m ^{2}k	0.22 W/m ^{2}k
0.8	0.26 W/m ^{2}k	0.22 W/m ^{2}k
0.9	0.26 W/m ^{2}k	0.23 W/m ^{2}k
1	0.27 W/m ^{2}k	0.23 W/m ^{2}k

Floating Timber Floor

Fixing Instructions

SuperQuilt is rolled out onto the concrete floor leaving enough edge overlap to protrude above the floor deck. Timber joists/battens are then laid on top of the SuperQuilt, spaced at centres to suit the particular flooring. The deck is then fixed at 200mm centres with screws 37mm into the joists/battens.



Construction	Thickness (mm)
Inside Surface	-
Chipboard Deck	22.00
Joist Cavity	50.00
SuperQuilt	40.00
Concrete Slab	150.00
Ground	-

U-Value table

P/A Ratio	U-Value (with 50mm Cavity above)	U-Value (with 100mm Cavity above)
0.1	0.13 W/m ^{2}k	0.12 W/m ^{2}k
0.2	0.20 W/m ^{2}k	0.17 W/m ^{2}k
0.3	0.24 W/m ^{2}k	0.20 W/m ^{2}k
0.4	0.26 W/m ^{2}k	0.22 W/m ^{2}k
0.5	0.28 W/m ^{2}k	0.23 W/m ^{2}k
0.6	0.30 W/m ^{2}k	0.24 W/m ^{2}k
0.7	0.31 W/m ^{2}k	0.25 W/m ^{2}k
0.8	0.32 W/m ^{2}k	0.26 W/m ^{2}k
0.9	0.33 W/m ^{2}k	0.27 W/m ^{2}k
1	0.34 W/m ^{2}k	0.27 W/m ^{2}k

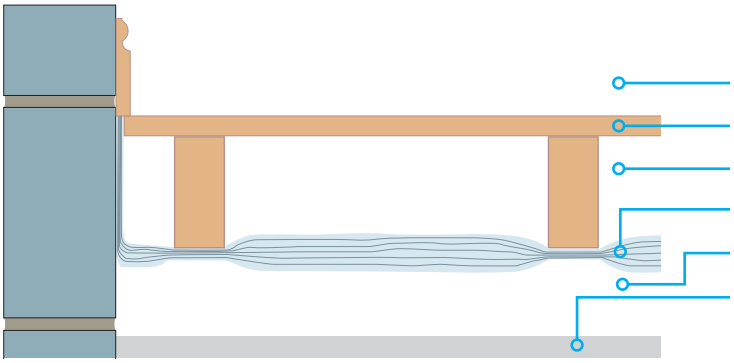
Crawl Space & Cellars

Fixing Instructions

SuperQuilt is rolled out under the floor joists than stapled in place. Access is gained using the under floor crawl space. The horizontal joints are tightly overlapped and left open to allow any moisture accumulation to dissipate. SuperQuilt should be sealed around the perimeter or brought up above the floor deck.

Accessories

Multifoil-Insulation.com supply a range of different Accesories such as ThermaSeal Foil Tape, Double Sided Tape, Staple Gun Kits, 14mm Staples, Scissors, Saddle and Pipe Clips and Conservatory Screws.



Construction	Thickness (mm)
Inside Surface	-
Tongue & Groove Floorboards	22.00
Joist Cavity	150.00
SuperQuilt	40.00
Ventilated Void	-
Ground	-

U-Value table

P/A Ratio	U-Value (with 150mm Cavity above)	U-Value **(with 200mm Cavity above)**
0.1	0.11 W/m ^{2}k	0.11 W/m ^{2}k
0.2	0.14 W/m ^{2}k	0.14 W/m ^{2}k
0.3	0.16 W/m ^{2}k	0.15 W/m ^{2}k
0.4	0.17 W/m ^{2}k	0.16 W/m ^{2}k
0.5	0.18 W/m ^{2}k	0.17 W/m ^{2}k
0.6	0.18 W/m ^{2}k	0.17 W/m ^{2}k
0.7	0.19 W/m ^{2}k	0.18 W/m ^{2}k
0.8	0.19 W/m ^{2}k	0.18 W/m ^{2}k
0.9	0.19 W/m ^{2}k	0.18 W/m ^{2}k
1	0.20 W/m ^{2}k	0.19 W/m ^{2}k

MultiFoil-Insulation.com have a range of How-To Videos.
We also have Data Sheets for Walls and Floors.
For more Technical Information Please call us
on 0114 323 0012.

Technical Properties

Product Description		
19 Components		
Thickness	40mm appr ox.	
Weight	800g/m²	
Mechanical Properties	Value	Refer ence Standard
Thermal performance		
Cor e	1.52m ²K/W	BS EN 16012
Roof	2.50m ²K/W	BS EN 6946
Wall	3.00m ²K/W	BS EN 6946
Floor	4.45m ²K/W	BS EN 6946
Flammability	Class E	BS EN 13501-1
Water vapour resistance	1569MNs/g	BS EN 12572
Emission coefficients of surfaces	0.02	BS EN 16012
Tensile strength	142KP A	BS EN 1608
Packaging	15m²	7.5m²
Width	1.5m	1.5m
Length	10m	5m
Weight	12.5Kg	6.25Kg