

BreatherQuilt

2 in 1 Breathable Multi-layer Insulation Blanket

Thermal insulation in a 40mm thin, flexible, multi-layer breathable membrane

- 2 in 1 insulating breather membrane
- Non degradable maintaining thermal performance and product integrity
- Ideal for new build & refurbishment
- Quick & easy to install
- Removes condensation
- Fully certified to industry standards
- UK Manufactured

Insulation for pitched roofs

Technical Guide



YBS Insulation
HIGH QUALITY PRODUCTS FOR THE BUILDING INDUSTRY

Insulation For Use In Roofs

Benefits

- **2 in 1 insulating breather membrane**
- **Removes condensation**
- **Equivalent to 65mm of mineral fibre**
- **LABC registered detail**
- **NHBC acceptance**
- **Agrément certified**

BreatherQuilt is a very flexible, easy to fit, breathable multi-layer insulation achieving a high thermal resistance.

General fixing instructions

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

Start at the bottom of the roof by rolling BreatherQuilt across the rafters and staple in to place. Tape a line of YBS double sided tape along the top edge of the material.

Install the next layer of BreatherQuilt over lapping the material by 100mm. Staple as before and ensure the double sided tape is secure and sealed.

Additional rolls should be butt jointed at the rafters, stapled as before and taped using YBS waterproof tape.

BreatherQuilt can be cut using a craft knife or sharp pair of scissors. Staple at regular intervals (approx. every 300mm). Minimum 14mm stainless steel or galvanised staples are recommended.

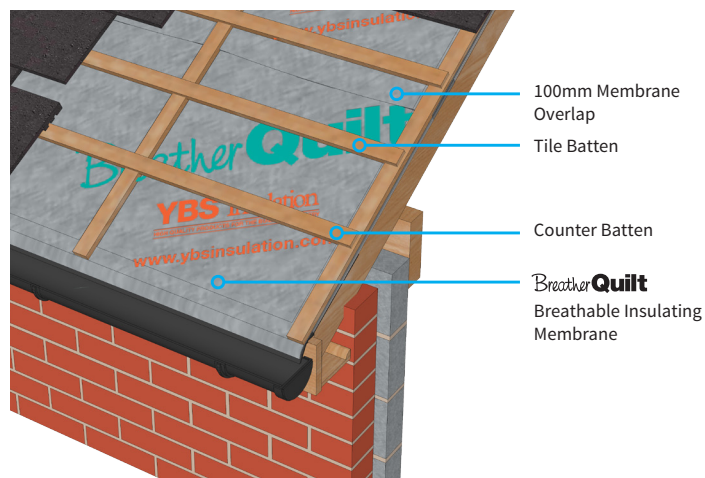
Horizontal jointing/taping - Overlap material by 100mm & tape using YBS double sided tape.

Vertical jointing/taping - Butt joint over a rafter & tape using YBS waterproof tape.

No personal protective equipment, clothing or handling required.



Installation - Counter batten detail



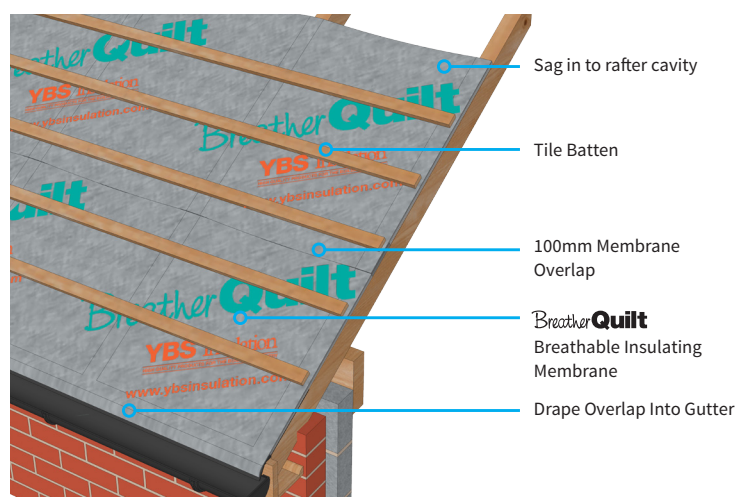
Starting at the bottom edge of the roof and working horizontally across the rafters, staple BreatherQuilt to the first rafter using minimum 14mm staples, pull taught and proceed across the roof.

At the eaves BreatherQuilt should extend onto a suitable eaves carrier.

Install 25mm battens parallel with the rafters.

Proceed with tile/slate battens and tile/slates.

Installation - Draped detail without counter batten



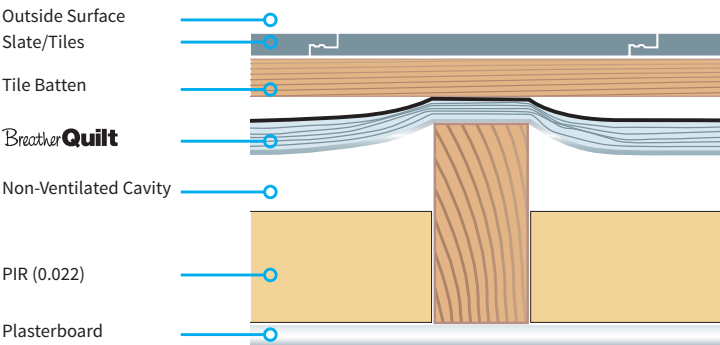
Starting at the bottom edge of the roof and working horizontally across the rafters, staple BreatherQuilt to the first rafter using minimum 14mm staples, BreatherQuilt should hang down between the rafters ensuring once tile battens are installed a clear 10mm drape is formed at the centre of all rafter spaces.

At the eaves BreatherQuilt should extend onto a suitable eaves carrier.

Proceed with tile/slate battens and tile/slates.

New Build Pitch Roof 0.13

Draped Detail

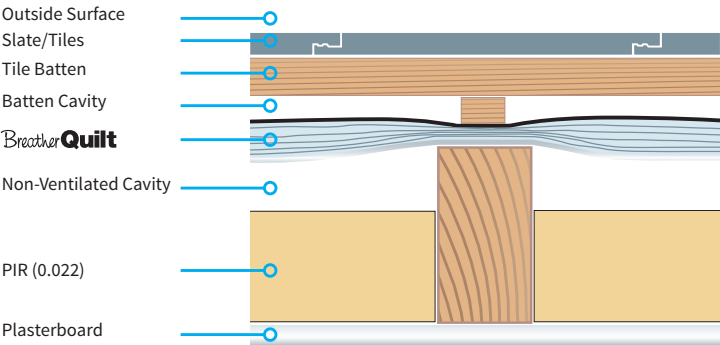


U-value Table

Description (rafters at 400 centres)	U-Value
BreatherQuilt and 175mm PIR	0.13 W/m²k

U-Value Table	
Description (rafters at 600 centres)	U-Value
BreatherQuilt and 155mm PIR	0.13 W/m²k

Counter Batten Detail



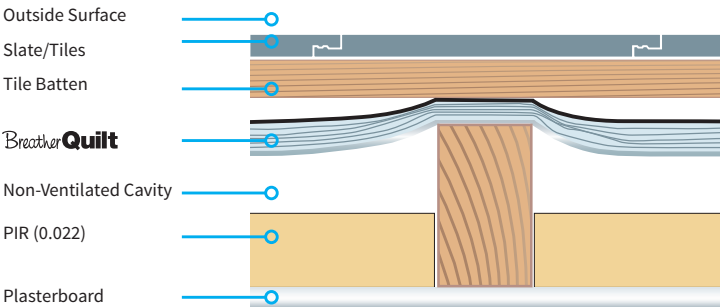
U-value Table

Description (rafters at 400 centres)	U-Value
BreatherQuilt and 180mm PIR	0.13 W/m²k

U-Value Table	
Description (rafters at 600 centres)	U-Value
BreatherQuilt and 160mm PIR	0.13 W/m²k

Refurbishment Pitch Roof 0.18

Draped Detail

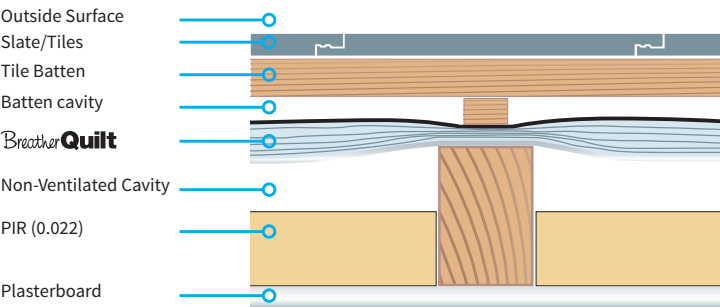


U-value Table

Description (rafters at 400 centres)	U-Value
BreatherQuilt	0.53 W/m²k
BreatherQuilt and 110mm PIR	0.18 W/m²k
BreatherQuilt and 165mm Mineral wool	0.18 W/m²k

U-Value Table	
Description (rafters at 600 centres)	U-Value
BreatherQuilt	0.53 W/m²k
BreatherQuilt and 95mm PIR	0.18 W/m²k
BreatherQuilt and 150mm Mineral wool	0.18 W/m²k

Counter Batten Detail



U-value Table

Description (rafters at 400 centres)	U-Value
BreatherQuilt	0.57 W/m²k
BreatherQuilt and 115mm PIR	0.18 W/m²k
BreatherQuilt and 165mm Mineral wool	0.18 W/m²k

U-Value Table	
Description (rafters at 600 centres)	U-Value
BreatherQuilt	0.56 W/m²k
BreatherQuilt and 100mm PIR	0.18 W/m²k
BreatherQuilt and 155mm Mineral wool	0.18 W/m²k

BreatherQuilt



Technical Properties		
Product Description		
11 Components		
Thickness	40mm approx.	
Weight	700g/m ²	
Mechanical Properties	Value	Reference Standard
Thermal performance		
Core	1.17m ² K/W	EN 16012
Core + 1 Airspaces	1.62m ² K/W	EN 6946
Emission coefficients of surfaces	0.05	EN 16012
Tensile strength	132KPA	BS EN 1608
Fire Classification	Euro Class E	EN 13501-1
Water vapour resistance	0.15 MNsg	
Packaging	12m ²	
Width	1.2m	
Length	10m	
Weight	8.5Kg	

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