EcoQuilt Expert™

High Performance Multifoil Insulation

Technical Data & Installation Guide

Designed For Roofs, Walls Floors and Many Other Apllications

ECOHOME INSULATION

Email: sales@ecohome-insulation.com

DESIGNED & MANUFACTURED IN GREAT BRITAIN

EcoQuilt Expert™

High Performance Multifoil Insulation

Roofs / Lofts

EcoQuilt Expert is commonly used within Roofs to prevent heat loss and prevent cold/warmth from entering your home dependent on the time of year. We recommend the following installation method;

Step 1:

Staple EcoQuilt Expert to the underside of your roof rafters using 14mm staples at 300mm intervals. Pull the product taught and overlap by 50mm. This will help the product to expand and reflect into a clear air cavity.

Step 2:

Tape and seal around the perimeter, overlaps and any cuttings you may need to make with ThermaSeal Foil Tape. This will create a complete seal and will enable EcoQuilt to act as a high performing Vapour Control Layer which will eliminate any risk of condensation.

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Step 3:

Fix a minimum of 25mm battens to the underside of the EcoQuilt Expert at 400mm centres (there is no requirement for treated timber).
We usually recommend cross battening (in this case battens running horizontally with vertial rafters behind the insulation).

Step 4:

You can then install plasterboard directly to the underside of the timber battens using plasterboard screws. No foil backed plasterboard is required as this works against the multifoil insulation. An XPS or PIR insulated plasterboard can be used if required.

Tips and Hints:

To avoid installing a secondary batten EcoQuilt Expert can be recessed part way into the rafters and stapled onto the side. You can then install a plasterboard directly over the insulation while still maintaining an air cavity on either side of the insulation.

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Walls

Step 1:

We recommend to fix a minimum depth of 25mm battens onto the existing wall. These are typically ran vertically, however can be ran vertical if required.

Step 2:

Staple EcoQuilt Expert to the internal side of the battens. We recommend to pull the insulation taught, to create an air cavity between the wall and insulation.

Step 3:

Tape and seal EcoQuilt Expert with ThermaSeal Foil Tape. We recommend to tape the perimeter, overlaps and any cuttings to ensure a full vapour barrier is achieved.

Step 4:

You can then fix a further 25mm batten over the insulation. Again, they can be ran vertically or horizontally. This will create an air cavity on both sides of the insulation.

Step 5:

You can then finish by installing a 12.5mm or 9mm plasterboard onto the wooden battens.

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Suspended Floors

Step 1:

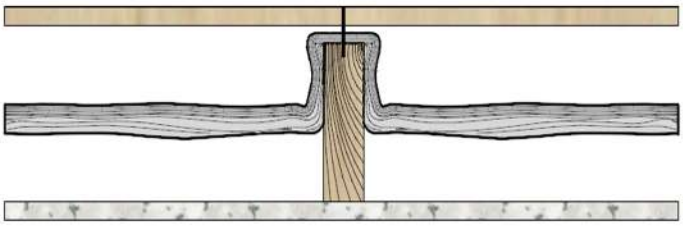
EcoQuilt Expert is rolled over the joists and recessed part way down into the joist before stapling in place. Alternatively you can use Saddle or Pipe Clips to create the recommended cavity depth.

Step 2:

EcoQuilt Expert is tightly overlapped by 50mm. We recommend to leave the overlaps untaped to allow any moisture to dissipate and allow the joists to breathe.

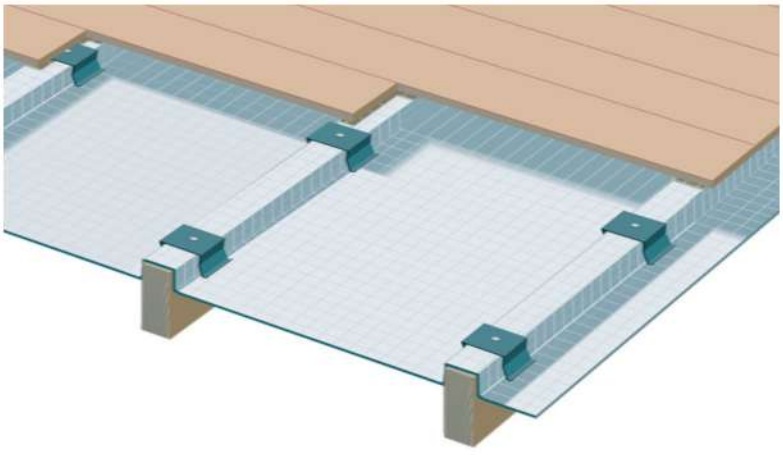
Step 3:

Tape and Seal EcoQuilt Expert around the perimeter using ThermaSeal Foil Tape. This can be lipped up the skirting board to ensure no draughts enter the room above.



Step 4:

Finally you can then install your floorboards over the joists and insulation. The EcoQuilt will then compress down to just 5mm, taking up minimal height.



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Crawl Space Floors

Step 1:

Staple the EcoQuilt Expert to the underside of the first floor joist, ensuring a cavity of atleast 25mm between the floorboards and insulation.

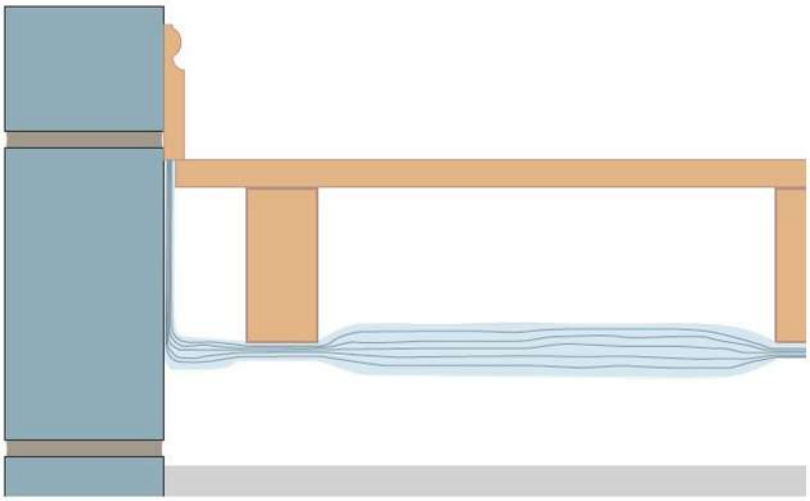
Step 2:

Pull EcoQuilt Expert taught and staple to the next joist. Repeat this process throughout the whole floor area.

Step 3:

Take the EcoQuilt up the wall plate and secure in place with either a batten or nails.

Tape and Seal EcoQuilt Expert around the perimeter using ThermaSeal Foil Tape. Leave the overlaps untaped.



Tip:

To make installation easier, fix a 25mm batten to the wall plate to staple the insulation in place, you can then tape and seal the insulation with ThermaSeal Foil Tape.

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Conservatories

Step 1:

Fix 25mm battens to the existing uPVC / Aluminium framwork using Self Tapping Screws such as Baypoles (which are supplied in our Conservatory Insulation Kit).

Step 2:

Staple the EcoQuilt Expert to the underisde of the battens, this will create a cavity between the roof and insulation.

Step 3:

Tape and Seal all overlaps and perimeter with ThermaSeal Foil Tape to ensure the insulation acts as a Vapour Barrier.

Step 4:

Install secondary 25mm battens to the underside of the insulation with timber screws, this will have created a cavity either side of the insulation allowing the foils to reflect properly.

Step 5:

You can then install uPVC Cladding or Plasterboard to the underside of the battens.

Tip:

If installing onto a Glass Conservatory we recommend installing ThermaFrost Window Film. This will give a white frosted finish and prevent 60% of UV Rays.

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Garden Buildings

Step 1:

Staple EcoQuilt Expert to the internal of the studwork at 300mm intervals. If there is currently no studwork showing, you can fix vertical 25mm battens to the walls at 400mm intervals.

Step 2:

Tape and seal the EcoQuilt Expert using ThermaSeal Foil Tape around the perimeter, overlaps and around any cuttings made including electrical cables.

Step 3:

Install a further 25mm batten horizontally at 400m intervals. This will compress the EcoQuilt Expert down to just 6mm!

Step 4:

You can then install your chosen finish such as Plasterboard, Cladding or Plywood. If installing shelving, we recommend using a thicker internal board.

Tip:

To save on internal space, you can recess the insulation back into the studwork by 25mm, and then install your chosen finish.

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Technical Information

Product Description	
Product Components (Layers)	6 Layers of Foils and Waddings
Relaxed Thickness	15mm
Compressed Thickness	6mm
Product Weight	400g/m²
Mechanical Properties	
Thermal Performance	
Core	0.93m2K/W
Core + Airspaces (Walls)	2.27m2K/W
Water Vapour Resistance	600MNs/g
Foil Emissivity	0.05
Product Dimensions	
Width	1.5m / 1.2m
Length	10m
Weight	4.8KG / 6KG

Disclaimer: EcoQuilt Expert has not been independently tested for use with Building Control and is purely for DIY purposes. If you require a product which is fully certified please see our YBS SuperQuilt

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