

# SF40

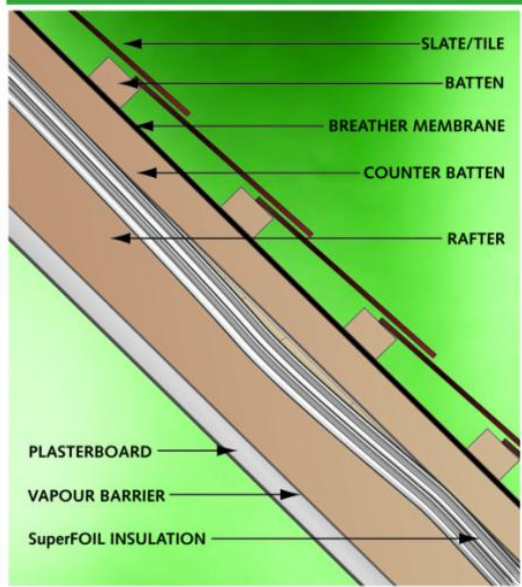
## SuperFOIL Insulation

Thermal Insulation for use in Roofs and Partition Walls

### INSTALLATION GUIDELINES & DATASHEET

**SF40 SuperFOIL can be installed over or under the rafter and provides continuous insulation. It is ideal for roofs and attic conversions.**

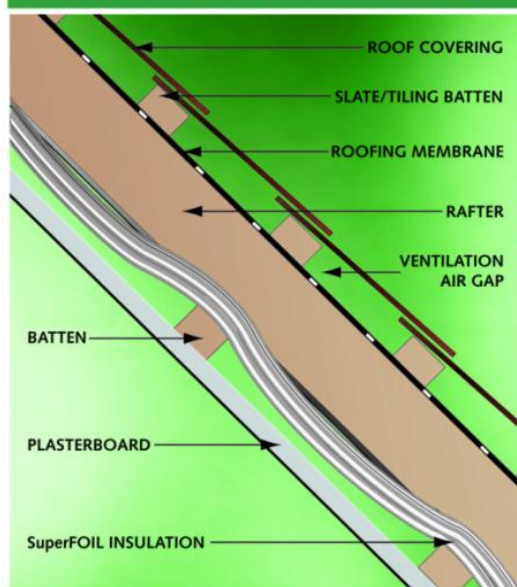
#### Over Rafter Application - Warm Roof



#### Over Rafter Application

- Roll out SF40 superFOIL over rafters, staple at least every 50mm and cover joints with SuperFOIL tape, overlap widths 75mm
- At the eaves cut SuperFOIL around rafters and seal to cavity insulation or wall plate to create airtight envelope.
- Fix battens parallel with the rafters and apply breathable roof underlay according to manufacturers guidelines.
- Fix roofing battens & tiles according to manufactures guidelines.

#### Under Rafter Application - Cold Roof



#### Under Rafter Application

- Roll out SuperFOIL, starting along the top of the roof. Batten horizontally over rafters. Staple at least every 50mm and cover joints with SuperFOIL tap, overlap widths 75mm
- At the bottom of the roof pitch, staple the SuperFOIL directly onto the timber wall plate to create airtight envelope.
- Fix battens across the rafters and ensure air gap between SuperFOIL and the plasterboard.

NB Use sarking board in Scotland

		Construction	Thickness (mm)	Thermal Resistance (m <sup>2</sup> K/W)
Over Rafter U-Value Calculation	Hot Box R Value	External Surface Resistance	-	0.100
		Tiles	15mm	0.000
		Airspace / Batten	22mm	0.000
		Breather Membrane	1mm	0.000
		Airspace / Batten	38mm	0.000
		<b>SF40 SuperFOIL</b>	<b>60mm</b>	<b>3.564</b>
		Rafters	125mm	0.000
		Hi-Density Foam Board Between Rafters (eg. Kingspan, celotex)	50mm	2.273
		Plasterboard	13mm	0.066
		Internal Surface Resistance	-	0.100
<b>U-Value = 0.18 W/m<sup>2</sup> K</b>				

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Calculated in accordance to BRE443 as required by Building Regulations Part L

## DUET System

Using only SuperFOIL (requires no other kind of insulation), add SF40 SuperFOIL to the existing layer of SF40 SuperFOIL as above to create a two layered DUET solution of SuperFOIL to achieve a U-Value 0.14W/m<sup>2</sup> K

# U-Value = 0.14 W/m<sup>2</sup> K

# SF40 SuperFOIL Insulation

INDEPENDENTLY  
TESTED &  
CERTIFIED TO  
INTERNATIONAL  
STANDARDS  
Conventional R Value  
**3.564**

## Installation Guide

- SF40 SuperFOIL can be used in all types of roof.
- SF40 SuperFOIL can be laid horizontally or vertically depending on the characteristics of the area to be insulated.
- SF40 SuperFOIL can be cut with a craft knife or pair of scissors.
- Attach with galvanised or stainless steel staples. (25mm min).
- Contact with lead, copper and its alloys should be avoided.
- Do not use SF40 SuperFOIL to insulate a chimney flue.
- When using SF40 SuperFOIL around downlighters a 30mm clear cavity must be provided.
- SF40 SuperFOIL is most effective with a 25mm min air gap easily provided with battens.
- SF40 SuperFOIL should be stored under cover and protected from the elements.
- SF40 SuperFOIL tape (20m x 100mm) to be used on all overlaps and joints.
- Be careful of the sun's reflection when using outside.
- SuperFOIL SF40's performance is measured according to BRE443 and complies with Building Regulations Part L.

## Distinctive Features

- SF40 SuperFOIL is the thickest foil insulation of its type in the UK.
- SF40 SuperFOIL has a BRE443 certified conventional R Value of 3.564
- SF40 SuperFOIL's extra large roll size 15m2 reduces waste.
- In situ energy assessment indicates that reflective multilayer foils have benefits over traditional (non reflective) insulation.
- SF40 also has air barrier properties and can control air movement for further energy efficiencies.
- SF40 SuperFOIL delivers maximum insulation with a small footprint.

## TECHNICAL SPECIFICATIONS

DESCRIPTION	LAYERS
POLYPROPYLENE REINFORCED HEAVY OUTER LAMINATED FOIL	2
ALUMINIUM MYLAR COATED REFLECTIVE FOIL LAYERS	12
THERMO FOAM SEPERATION LAYERS	16
LOFT QUILT 80G /SQM LAYERS	6
TOTAL LAYERS	36
PACKING	142 Poly Tube
CONVENTIONAL R VALUE	3.546
THICKNESS INSTALLED	60mm
WEIGHT	16.5kg
DIMENSIONS PACKED	1.5m by 500mm
ROLL DIMENSIONS	1.5m by 10m



Quality System Manufactured to:  
**ISO 9001:2008**

[www.foil-insulation.com](http://www.foil-insulation.com)



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