

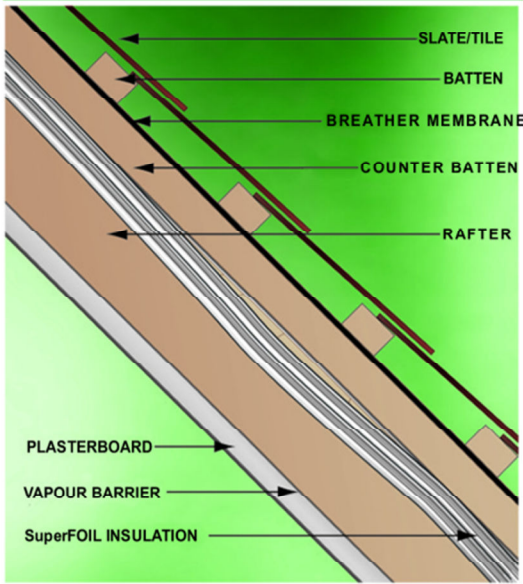
SF40

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.

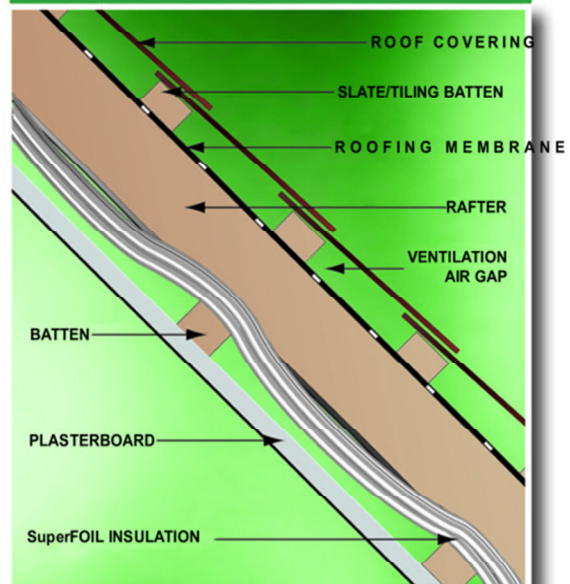
Over Rafter Application - Warm Roof



Over Rafter

- Roll out superFOIL over rafters, staple at least every 100mm 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 manufacturers guidelines.

Under Rafter Application - Cold Roof



Under Rafter

- Roll out SuperFOIL, starting along the top of the roof. Batten horizontally over rafters. Staple at least every 100mm and cover joints with SuperFOIL tape, 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 ² K/W)
Over Rafter U-Value Calculation	Combi System	External Surface Resistance	-	0.100
		Tiles	15mm	0.000
		Airspace / Batten	22mm	0.000
		Breather Membrane	1mm	0.000
		Airspace / Batten	38mm	0.000
		SF40 SuperFOIL	60mm	3.564
		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
U-Value = 0.18 W/m² K				

NB Use sarking board in Scotland

		Construction	Thickness (mm)	Thermal Resistance (m ² K/W)
Under Rafter U-Value Calculation	Combi System	External Surface Resistance	-	0.100
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		Plasterboard	13mm	0.066
		Internal Surface Resistance	-	0.100
U-Value = 0.18 W/m² K				

Calculated as required by Building Regulations Part L NB Always check with your building control

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/m² K

U-Value = 0.14 W/m² K

SF40 SuperFOIL Insulation

**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 utility knife or scissors.
- Attach with galvanised or stainless steel staples. (25mm min).
- Contact with lead, copper and 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 achieved 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.
- Use SuperFOIL SF40's to comply with Building Regulations Part L.

Distinctive Features

- SF40 SuperFOIL is made with 40% recycled material and is fully recyclable, zero ozone depletion and low global warming potential.
- SF40 SuperFOIL has a tested R Value of 3.564
- SF40 SuperFOIL's extra large roll size 15m² reduces waste.
- In situ energy assessment indicates that reflective multi-layer foil insulation 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 COATED REFLECTIVE FOIL LAYERS	13
THERMO FOAM SEPARATION LAYERS	16
LOFT QUILT 80G /SQM LAYERS	6
TOTAL LAYERS	37
PACKING	142 Poly Tube
TESTED R VALUE	3.546
THICKNESS	60mm
WEIGHT	15kg
DIMENSIONS PACKED	1.5m by 500mm
ROLL DIMENSIONS	1.5m by 10m



Quality System Manufactured to:
ISO 9001:2008

For more information visit www.superfoil.co.uk

Sizes / figures are approximate and subject to change without notice, tolerance 1:0.01 to 1:0.15



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