

SF40

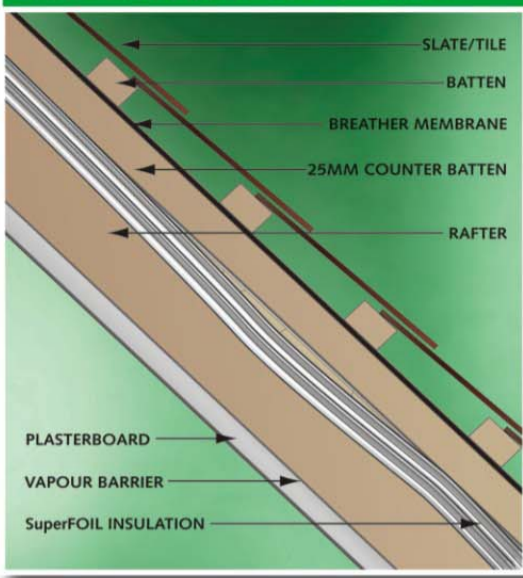
SuperFOIL Insulation

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.

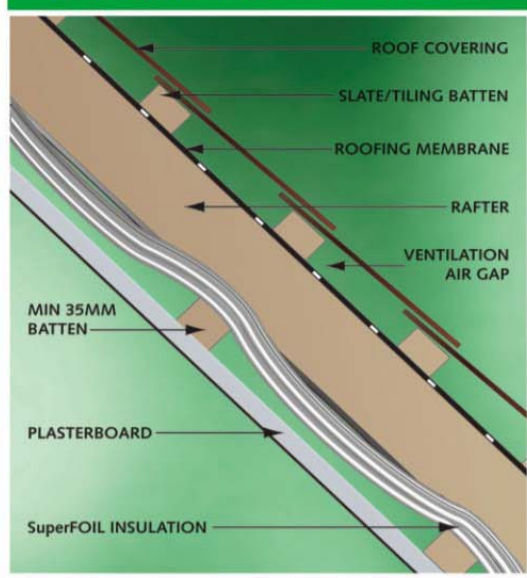
Over Rafter Application - Warm Roof



Over Rafter Application

- Roll out SF40 SuperFOIL over rafters. Staple every 50mm and cover joints with SF40 SuperFOIL tape, overlap widths 75mm.
- At the eaves cut quilt around rafters and seal to cavity wall 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 tiles

Under Rafter Application - Cold Roof



Under Rafter Application

- Roll out SuperFOIL, starting along the top of the roof. Batten horizontally over rafters. Staple every 50mm and cover joints with SF40 SuperFOIL tape, overlap widths 75mm.
- At the bottom of the roof pitch, staple the SF40 SuperFOIL directly onto the timber wall plate to create airtight envelope.
- Fix battens across the rafters and ensure 25mm air gap between quilt and the plasterboard.

NB Use sarking board in Scotland

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	Construction	Thickness (mm)	Thermal Conductivity (W/mK)	Thermal Resistance (m ² K/W)
Conventional R Value	Outside Surface Resistance	-	-	0.100
	Tiles	10mm	-	0.000
	Tile Battens	22mm	-	0.000
	Breather Membrane	1mm	-	0.000
	Battens	38mm	-	0.000
	SF40 SuperFOIL	60mm	-	3.564
	Polyurethane between rafters	25mm	-	1.000
	Rafters	150mm	-	0.000
	Plasterboard	13mm	0.190	0.066
	Inside Surface Resistance	-	-	0.100
	U-VALUE, Combined method: 0.2025/m ² K (0.20) (lower limit = 4.825 m ² K/W, upper limit = 5.052m ² K/W)			
Comparative R Value	Outside Surface Resistance	-	-	0.100
	Tiles	10mm	-	0.000
	Tile Battens	22mm	-	0.000
	Breather Membrane	1mm	-	0.000
	Battens	38mm	-	0.000
	SF40 SuperFOIL	60mm	-	9.600
	Rafters	150mm	-	0.000
	Plasterboard	13mm	0.190	0.066
	Inside Surface Resistance	-	-	0.100
	U-VALUE, Combined method: 0.0980/m ² K (0.10) (lower limit = 10.205 m ² K/W, upper limit = 10.205m ² K/W)			

	Construction	Thickness (mm)	Thermal Conductivity (W/mK)	Thermal Resistance (m ² K/W)
Conventional R Value	Outside Surface Resistance	-	-	0.100
	Tiles	10mm	-	0.000
	Tile Battens	22mm	-	0.000
	Breather Membrane	1mm	-	0.000
	Rafters	100mm	-	0.000
	Polyurethane between rafters	25mm	-	1.000
	SF40 SuperFOIL	60mm	-	3.564
	Battens	38mm	-	0.000
	Plasterboard	13mm	0.190	0.066
	Inside Surface Resistance	-	-	0.100
	U-VALUE, Combined method: 0.1886W/m ² K (0.19) (lower limit = 5.294m ² K/W, upper limit = 5.310m ² K/W)			
Comparative R Value	Outside Surface Resistance	-	-	0.100
	Tiles	10mm	-	0.000
	Tile Battens	22mm	-	0.000
	Breather Membrane	1mm	-	0.000
	Rafters	100mm	-	0.000
	SF40 SuperFOIL	60mm	-	9.600
	Battens	38mm	-	0.000
	Plasterboard	13mm	0.190	0.066
	Inside Surface Resistance	-	-	0.100
	U-VALUE, Combined method: 0.0983/m ² K (0.10) (lower limit = 10.170 m ² K/W, upper limit = 10.186 m ² K/W)			

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 scissors.
- Attach with galvanised or stainless steel staples. (20mm 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 minimum 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.

Distinctive Features

- SF40 SuperFOIL is the thickest foil insulation of its type in the UK.
- SF40 SuperFOIL has a manufacturer certified conventional R Value of 3.564 and a comparative R Value of 9.6.
- SF40 SuperFOIL's extra large roll size of 15m² reduces waste.
- SF40 SuperFOIL can be used in conjunction with any other form of insulation to 'Super Insulate'.
- SF40 SuperFOIL is lightweight and easy to handle.
- SF40 SuperFOIL delivers maximum insulation from the use of a minimum amount of space.

TECHNICAL SPECIFICATIONS

DESCRIPTION	LAYERS
POLYPROPYLENE REINFORCED HEAVY OUTER LAMINATED FOIL	2
ALUMINIUM MYLAR COATED REFLECTIVE FOIL LAYERS	12
THERMO FOAM SEPARATION LAYERS	16
LOFT QUILT 80G/SQM LAYERS	6
TOTAL LAYERS	36
PACKING	142 Poly Tube
CONVENTIONAL R VALUE	3.564
COMPARATIVE R VALUE	9.6
THICKNESS INSTALLED	60mm
WEIGHT	16.5kg
DIMENSIONS PACKED	1.5m by 500mm
ROLL DIMENSIONS	1.5m by 10m

