

# SF19

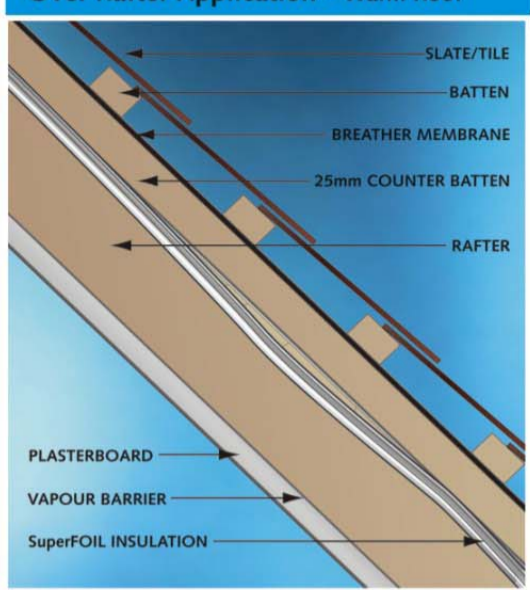
## SuperFOIL Insulation

Thermal Insulation for use in Roofs and Partition Walls

### INSTALLATION GUIDELINES & DATASHEET

SF19 SuperFOIL can be installed over or under the rafter and provides continuous insulation. It is ideal for roofs and attic conversions.

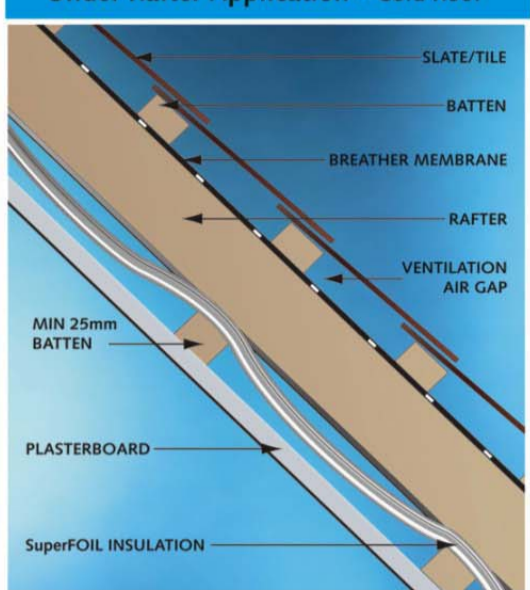
#### Over Rafter Application - Warm Roof



#### Over Rafter Application

- Roll out SF19 SuperFOIL over rafters. Staple every 500mm and cover joints with SF19 SuperFOIL tape, overlap widths 75mm
- At the eaves cut insulation 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 500mm and cover joints with SF19 SuperFOIL tape, overlap widths 75mm.
- At the bottom of the roof pitch, staple the SF19 SuperFOIL directly onto the timber wall plate to create airtight envelope.
- Fix battens across the rafters and ensure 25mm air gap between insulation and the plasterboard.

NB Use sarking board in Scotland

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	Construction	Thickness (mm)	Thermal Conductivity (W/mK)	Thermal Resistance (m <sup>2</sup> K/W)
Conventional R Value	Outside Surface Resistance	-	-	0.100
	Tiles	10mm	-	0.000
	Tile Battens	25mm	-	0.000
	Breather Membrane	1mm	-	0.000
	Battens	22mm	-	0.000
	SF19 SuperFOIL	38mm	-	2.218
	Rafters	150mm	-	0.000
	Eco-Therm (between rafters)	70mm	-	3.043
	Plasterboard	12.5mm	0.190	0.066
	Inside Surface Resistance	-	-	0.100
U-VALUE, Combined method: 0.1978W/m <sup>2</sup> K (lower limit = 4.747 m <sup>2</sup> K/W, upper limit = 5.366 m <sup>2</sup> K/W)				
Comparative R Value	Outside Surface Resistance	-	-	0.100
	Tiles	10mm	-	0.000
	Tile Battens	25mm	-	0.000
	Breather Membrane	1mm	-	0.000
	Battens	22mm	-	0.000
	SF19 SuperFOIL	38mm	-	6.100
	Rafters	150mm	-	0.000
	Plasterboard	12.5mm	0.190	0.066
	Inside Surface Resistance	-	-	0.100
	U-VALUE, Combined method: 0.1532W/m <sup>2</sup> K (lower limit = 6.526 m <sup>2</sup> K/W, upper limit = 6.526 m <sup>2</sup> K/W)			

	Construction	Thickness (mm)	Thermal Conductivity (W/mK)	Thermal Resistance (m <sup>2</sup> K/W)
Conventional R Value	Outside Surface Resistance	-	-	0.100
	Tiles	10mm	-	0.000
	Tile Battens	25mm	-	0.000
	Breather Membrane	1mm	-	0.000
	Rafters	150mm	-	0.000
	Eco-Therm (between rafters)	70mm	-	3.043
	SF19 SuperFOIL	38mm	-	2.218
	Battens	22mm	-	0.000
	Plasterboard	12.5mm	0.190	0.066
	Inside Surface Resistance	-	-	0.100
U-VALUE, Combined method: 0.1972W/m <sup>2</sup> K (lower limit = 4.786 m <sup>2</sup> K/W, upper limit = 5.356 m <sup>2</sup> K/W)				
Comparative R Value	Outside Surface Resistance	-	-	0.100
	Tiles	10mm	-	0.000
	Tile Battens	25mm	-	0.000
	Breather Membrane	1mm	-	0.000
	Rafters	150mm	-	0.339
	SF19 SuperFOIL	38mm	-	6.100
	Battens	22mm	-	0.000
	Plasterboard	12.5mm	0.190	0.066
	Inside Surface Resistance	-	-	0.100
	U-VALUE, Combined method: 0.1496/m <sup>2</sup> K (lower limit = 6.680 m <sup>2</sup> K/W, upper limit = 6.689 m <sup>2</sup> K/W)			

# SF19

## SuperFOIL Insulation

### Installation Guide

- SF19 SuperFOIL can be used in all types of roof.
- SF19 SuperFOIL can be laid horizontally or vertically depending on the characteristics of the area to be insulated.
- SF19 SuperFOIL can be cut with a craft knife or scissors.
- Attach with galvanised or stainless steel staples. (14mm min).
- Contact with lead, copper and its alloys should be avoided.
- Do not use SF19 SuperFOIL to insulate a chimney flue.

- When using SF19 SuperFOIL around downlighters a 30mm clear cavity must be provided.
- SF19 SuperFOIL is most effective with a 25mm minimum air gap easily provided with battens.
- SF19 SuperFOIL should be stored under cover and protected from the elements.
- SF19 SuperFOIL tape (25m x 100mm) to be used on all overlaps and joints.
- Be careful of the sun's reflection when using outside.

### Distinctive Features

- SF19 SuperFOIL is the thickest foil insulation of its type in the UK.
- SF19 SuperFOIL has a certified Conventional R Value of 2.218.
- SF19 SuperFOIL's extra large roll size of 18.75m reduces waste.

- SF19 SuperFOIL can be used with XPS or Rockwool to 'Super Insulate'.
- SF19 SuperFOIL is lightweight and easy to handle.
- SF19 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	6
THERMO FOAM SEPARATION LAYERS	8
LOFT QUILT 80G/SQM LAYERS	3
TOTAL LAYERS	19
PACKING	142 Poly Tube

CONVENTIONAL R VALUE	2.218
COMPARATIVE R VALUE	6.100
THICKNESS INSTALLED	38mm
WEIGHT	13kg
DIMENSIONS PACKED	1.5m by 500mm
ROLL DIMENSIONS	1.5m by 12.5m

Quality System Manufactured to:  
ISO 9001:2008



INDEPENDENTLY  
TESTED &  
CERTIFIED TO  
INTERNATIONAL  
STANDARDS  
Conventional R Value  
**2.218**