

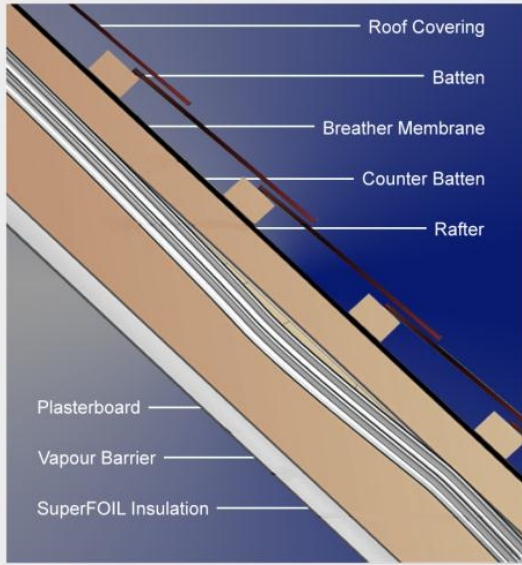
SF19 ▶ Exceptional Value Multi-foil Insulation

SuperFOIL Insulation

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



Roll out SuperFOIL over rafters, staple at least every 100mm and cover joins with SuperFOIL tape, overlap widths 75mm

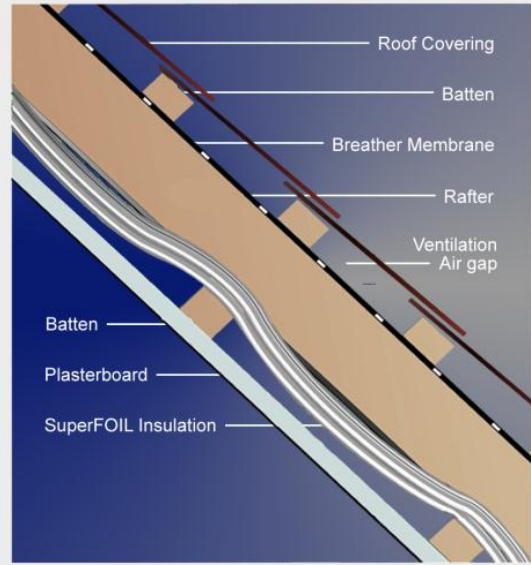
At the eaves cut SuperFOIL around rafters and seal to cavity insulation or wall plate to create airtight envelope.

Fix battens parallel with the rafters and apply breathable roof underlay according to manufacturers guidelines.

Fix roofing battens & tiles according to manufacturers guidelines.

NB Use sarking board in Scotland

Under Rafter Application - Cold Roof



Roll out SuperFOIL, starting along the top of the roof. Batten horizontally over rafters. Staple at least every 100mm and cover joins 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

Over Rafter U-Value Calculation

Combi System

CONSTRUCTION	Thickness (mm)	Thermal Resistance (m ² K/W)
External Surface Resistance	-	0.040
Tiles	15mm	0.000
Airspace Between Tiles and Roofing Felt	22mm	0.000
Airspace / Batten	25mm	0.000
SF19 SuperFOIL	40mm	2.13
Rafter Cavity	25mm	0.000
Hi-Density Foam Board Between Rafters	90mm	4.091
Rafter Cavity	50mm	0.444
Plasterboard	13mm	0.066
Internal Surface Resistance	-	0.100
U-Value = 0.18 W/m² K		



Under Rafter U-Value Calculation

Combi System

CONSTRUCTION	Thickness (mm)	Thermal Resistance (m ² K/W)
External Surface Resistance	-	0.040
Tiles	15mm	0.000
Airspace Between Tiles and Roofing Felt	22mm	0.000
Rafter Low E Cavity	50mm	0.000
Hi-Density Foam Board Between Rafters	90mm	0.444
Rafter Cavity	25mm	4.091
SF19 SuperFOIL	40mm	2.13
Airspace / Batten	25mm	0.000
Plasterboard	13mm	0.066
Internal Surface Resistance	-	0.100
U-Value = 0.18 W/m² K		

DUET System

Calculated as required by Building Regulations Part L NB Always Check with your Building Control
Using only SuperFOIL (requires no other kind of insulation), add SF40 SuperFOIL to the existing layer of SF19 SuperFOIL as per LABC registered system to create a two layered DUET solution of SuperFOIL to achieve a U-Value 0.18W/m² K

U-Value = 0.18 W/m² K



SF19 SuperFOIL Insulation

Thermal Insulation for use in Roofs and Walls

Up to
R
2.59

Key Features

SF19 SuperFOIL has LABC Registered System Approval

SF19 SuperFOIL has a tested R value of 2.22 in pitch roofs, 2.13 in pitch or flat roofs & 2.59 in walls.

'DUET' Installation – An over and under the rafter application consisting of two layers of SuperFOIL. SF19 + SF40 provides a U-value of 0.18. Meets UK building regulations & has LABC system approval.

'COMBI' Installation – Use with any other insulation including mineral wool or foam board to achieve the required insulation U-value.

SF19 SuperFOIL is ideal for use in walls and roof structures in new build and in renovation, refurbishment / extension projects.

SF19's technical specification means high performance from a small footprint.

SF19 SuperFOIL also acts as a radiant barrier to reflect excessive heat gain during the summer months as well as insulating throughout the year.

Easy installation results in minimal waste. Superfoil is manufactured with 40% recycled materials and is recyclable at the end of its useful life.



*Meets the Requirements of BR443 SuperFOIL has been tested under ISO8301, which is equivalent to BS EN 12667, by an internationally accredited laboratory

Technical

DESCRIPTION

LAYERS

Polypropylene reinforced heavy outer laminated foil	2
Aluminium coated reflective foil PET layers	6
Thermo foam separation layers	8
Loft quilt layers	3
Total layers	19
Packing	142 Poly tube
Weight per roll	13Kg
Dimensions packed	1.5m x 420mm

SPECIFICATION

DATA

Tested 'R' value (ISO 8301)	2.22
Core 'R' value (BBA, ISO 8301)	1.17
Emissivity (ASTM C1371)	0.03
Water resistance (BS EN 20811:1992(1996) / BS 4016:1997 Annex B)	>1000cm / Pass
Tear strength (ISO 13937-2:1996)	Warp 515 N/50mm Weft 600 N/50mm
Fire Resistance (BS EN 11925-2:2005)	Class E (BS EN 13501-1:2007)
Thickness installed	40mm
Roll dimensions	1.5m x 12.5m
Total area per roll	18.75 sqm

Installation

Installing OVER rafters:

Roll out SF19 SuperFOIL over rafters. Staple at least 500mm or as conditions dictate and cover joins with SuperFOIL tape, overlap widths 75mm (Min 50mm Max 100mm)

At the eaves cut superFOIL 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 battens & tiles according to manufacturers guidelines.

Installing UNDER rafters:

Roll out SuperFOIL, starting along the top of the roof. Batten horizontally over rafters. Staple at least 500mm or as conditions dictate and cover joins with SuperFOIL tape, overlap widths 75mm (Min 50mm Max 100mm).

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 air gap between SuperFOIL and the plasterboard.

SF19 Installers please note:

SF19 SuperFOIL can be used in all types of roof structure.

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.

SF19 SuperFOIL is attached using galvanised or stainless steel staples.

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. The use of fire rated fittings or fire hoods is recommended.

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 (20m x 100mm) to be used on all overlaps and joints.

Be careful of the sun's reflection when installing outside.

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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