SF60

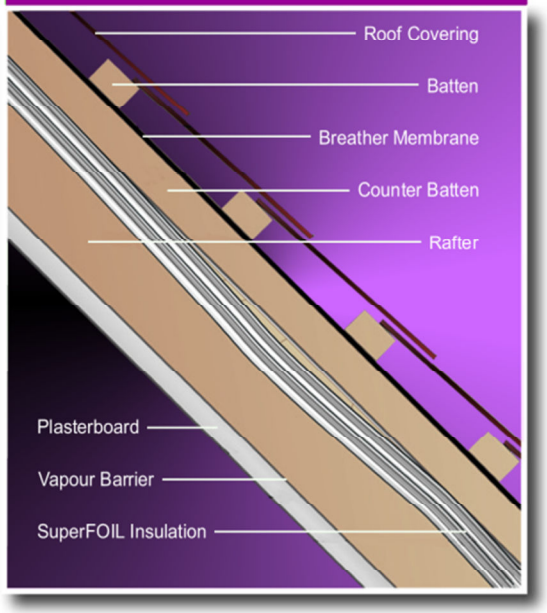
SuperFOIL Insulation

Thermal Insulation for use in Roofs and Partition Walls

INSTALLATION GUIDELINES & DATASHEET

SF60 SuperFOIL can be installed over or under the rafter and provides continuous insulation. It is ideal for roofs and attic conversions.

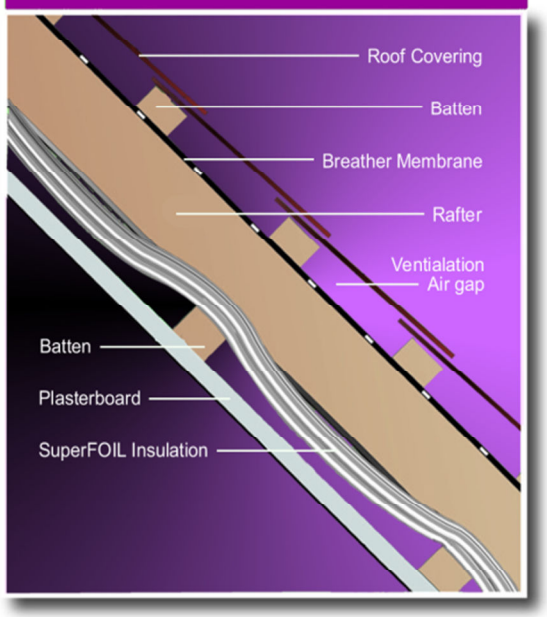
Over Rafter Application - Warm Roof



Over Rafter Application

- Roll out 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 parrallel 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 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	-	0.100
Tiles	15mm	0.000
Airspace / Batten	22mm	0.000
Breather Membrane	1mm	0.000
Airspace / Batten	63mm	0.000
SF60 SuperFOIL	**100mm**	**4.643**
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 = 0.14 W/m^2 K

NB Use sarking board in Scotland

Under Rafter U-Value Calculation — Combi System

Construction	Thickness (mm)	Thermal Resistance (m^2 K/W)
External Surface Resistance	-	0.100
Tiles	15mm	0.000
Airspace / Batten	22mm	0.000
Breather Membrane	1mm	0.000
Rafters	125mm	0.000
Hi-Density Foam Board Between Rafters (eg. Kingspan, celotex)	50mm	2.273
SF60 SuperFOIL	**100mm**	**4.643**
Airspace / Batten	63mm	0.000
Plasterboard	13mm	0.066
Internal Surface Resistance	-	0.100

U-Value = 0.14 W/m^2 K

Calculated as required by Building Regulations Part L NB Allways Check with your Building Control

DUET System –

Using only SuperFOIL (requires no other kind of insulation), add SF19 SuperFOIL to the existing layer of SF60 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/m^2 K

SF60 SuperFOIL Insulation

R Value 4.643

Installation Guide

- SF60 SuperFOIL can be used in all types of roof.
- SF60 SuperFOIL can be laid horizontally or vertically depending on the characteristics of the area to be insulated.
- SF60 SuperFOIL can be cut with large shears or large scissors.
- We recommend using 63mm battens and 44mm galv or stainless steel staples.
- Contact with lead, copper and its alloys should be avoided.
- Do not use SF60 SuperFOIL to insulate a chimney flue.
- When using SF60 SuperFOIL around downlighters a 30mm clear cavity must be provided.
- SF60 SuperFOIL is most effective with a 25mm min air gap easily achieved with battens.
- SF60 SuperFOIL should be stored under cover and protected from the elements.
- SF60 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 SF60 to comply with Building Regulations Part L.

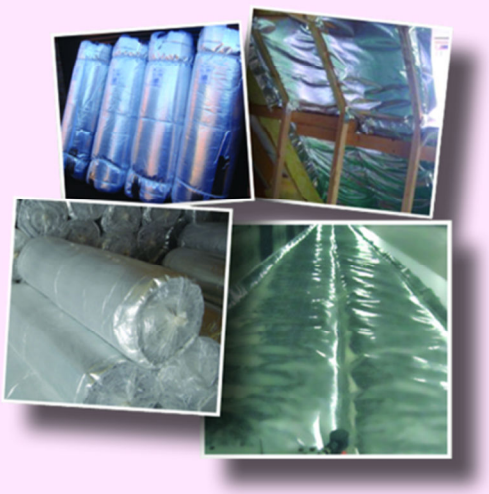
Distinctive Features

- SF60 SuperFOIL is the thickest foil insulation of its type in the UK.
- SF60 SuperFOIL has a tested R Value of 4.643
- SF60 SuperFOIL's extra large roll size 12m2 reduces waste.
- In situ energy assessment indicates that reflective multi-layer foil insulation has benefits over traditional (non reflective) insulation.
- SF60 also has air barrier properties and can control air movement for further energy efficiencies.
- SF60 SuperFOIL delivers maximum insulation with a small footprint.

TECHNICAL SPECIFICATIONS

DESCRIPTION	LAYERS
POLYPROPYLENE REINFORCED HEAVY OUTER LAMINATED FOIL	2
ALUMINIUM COATED REFLECTIVE FOIL LAYERS	20
THERMO FOAM SEPARATION LAYERS	24
LOFT QUILT 80G /SQM LAYERS	9
TOTAL LAYERS	55
PACKING	142 Poly Tube

TESTED R VALUE	4.643
THICKNESS	100mm
WEIGHT	18kg
DIMENSIONS PACKED	1.5m by 500mm
ROLL DIMENSIONS	1.5m by 8m



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

Boulder Developments Ltd, BHF, Norwell, Notts, NG23 6JN
Tel: 01636 639 900 Fax: 01636 639 909 www.Superfoil.co.uk