

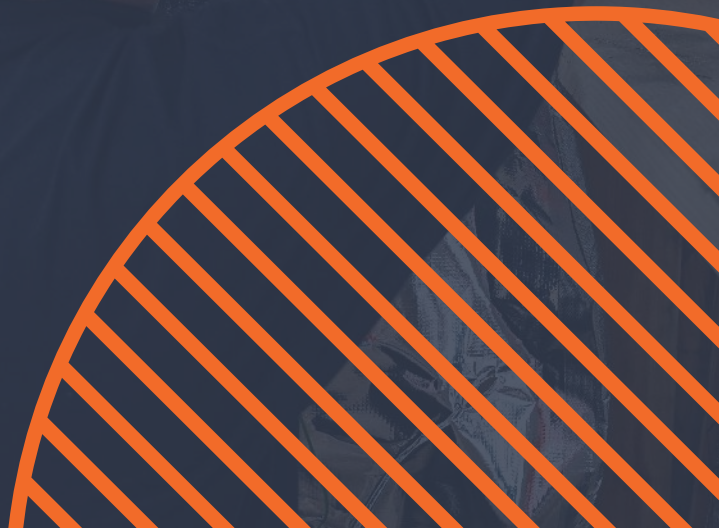
Super**FOIL**

Insulation

Change the way  
**you insulate.**



Super**FOIL**  
CELEBRATING



# Our purpose is to help people create happier, healthier, and more sustainable living environments.

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SuperFOIL is a family business, established in 1997, under our parent company Boulder Developments Ltd. Our journey began with a simple vision: we needed to find a better way to insulate.

While working on our self-build project, we recognised that traditional insulation no longer met the modern-day construction and design requirements. Despite searching extensively, we couldn't find a suitable alternative.

In response, after years of dedicated research and innovation we created SuperFOIL, and we've kept quality, responsibility and performance at the heart of our business ever since.

Today, with a dedicated team of over 60 professionals, we lead the UK market in reflective foil insulation. We produce over 1 million SQM of premium insulation products annually.

With over 26 years of industry experience, our technical experts are here to assist you with build-up solutions, U-value calculations, condensation risk analysis, or even a free discovery session to address any queries you or your building inspector may have. All our services are entirely free of charge, and our experts are here to ensure you achieve the best results.



SuperFOIL





# Choose SuperFOIL. Save The Planet.

By choosing SuperFOIL insulation you are making a great sustainable choice for your insulation. Made to be highly energy efficient and long lasting with a lifespan of 50+ years.

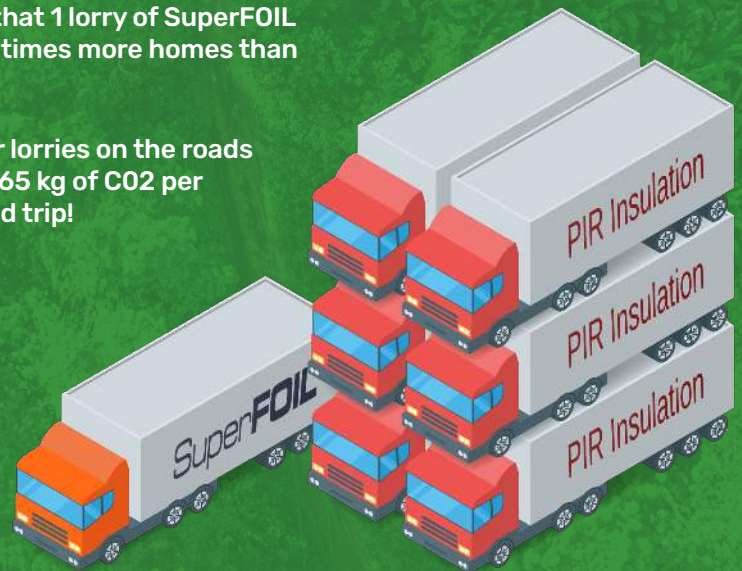
Our products are made with up to 40% recycled materials. This means that around 450 recycled bottles are being used to create the wadding in a single roll of SuperFOIL SF19+, saving approximately 80 million plastic bottles from going to landfill every year.

And we're not stopping there. Through on-shoring, local partnerships, and investments in the most innovative technology, we've integrated a sustainable value chain, ensuring that you receive the highest-quality products while we reduce emissions associated with product procurement.

By making your home more energy efficient with sustainable insulation, you are saving money on ever rising energy bills and helping protect the environment.

**Did you know that 1 lorry of SuperFOIL  
can insulate 6 times more homes than  
1 lorry of PIR?**

**Meaning fewer lorries on the roads  
and saving 3,765 kg of CO<sub>2</sub> per  
500-mile round trip!**



# Customer Service **at Our Core**



One of the guiding principles of SuperFOIL is that there is always a better way to get things done, and Customer Service is the beating heart of that idea. We're dedicated to providing you with top-quality insulation solutions – but more than that, we want to make sure you have the support you need to get it done.

Our customer service team is the driving force behind that support, always available to provide our customers with the help they need to get the most from our products. And we're always delighted to hear that we've succeeded in that mission.



## **Nova Scot**



### **Customer Service Review**

This company is very thorough in it's efforts to be of assistance. Always ready with good technical advice with respect to questions about each insulation product but also importantly will assist on the users application of the product, and any queries regarding suitability and installation. With SuperFoil guidance your project should end up being a success.

## **Neil Murphy**



### **Customer Service Review**

Can't recommend these guys enough. Spot on customer service always happy to help to get you the right product and information. And the products are brilliant. Thank you for all your help.

## **Gordon Satterley**



### **Customer Service Review**

First class response to my query regarding insulating a solid concrete floor in garage to meet building regs. Full breakdown of materials needed and calculation received back within 24 hours. Plus a follow up call to ensure I had all need. Great service, thank you!

SuperFOIL

# MULTIFOIL INSULATION

## 3 IN 1 DESIGN

FOIL INSULATION,  
VAPOUR CONTROL LAYER  
& RADIANT BARRIER

## ACHIEVE BUILDING COMPLIANCE

MEET OR EXCEED PROJECT  
REQUIREMENTS

## EASY TO INSTALL

NO SPECIALIST TOOLS  
REQUIRED

## SUSTAINABLE

MADE FROM UP TO 40%  
RECYCLED MATERIALS

## IDEAL FOR USE IN

NEW BUILD, RETROFIT,  
TIMBER-FRAME, DIY



✓ Roof



✓ Wall



✓ Floor

SuperFOIL.co.uk

# REFLECTIVE INSULATION

## FOR USE IN ROOFS, WALLS & FLOORS

### Energy efficiency and savings all year round!

The SuperFOIL multifoil insulation range, SF6, SF19+, SF40 & SF60 are multifunctional products that combine three essential functions in one.

First, it provides high-performance insulation, keeping your space warm. Second, it acts as a radiant barrier, keeping heat in during the winter, and reducing solar heat gain in the summer. Third, it serves as your vapour check, eliminating the need for a separate Vapour Control Layer (VCL).

Due to this efficient design, all multifoils can be installed in continuous layers to achieve maximum performance, while keeping a slim profile.

The lightweight and easy to install design also simplifies your project, minimises product wastage and saves you space, time and money on installation.

Manufactured using up to 40% recycled materials and with a 50+ year lifespan, our sustainable and non-hazardous multifoils will help you create energy efficient and comfortable homes, all year round.

**Top Tip** – The vapour control products can be used in roofs, walls and floors; generally on the internal side as part of the drylining.

|                            | SF6               | SF19+                  | SF40              | SF60              |
|----------------------------|-------------------|------------------------|-------------------|-------------------|
| <b>Product Dimensions</b>  |                   |                        |                   |                   |
| Thickness                  | 30mm              | 45mm                   | 65mm              | 100mm             |
| Length                     | 10m               | 10m                    | 10m               | 8m                |
| Width                      | 1.2m              | 1.2 / 1.5m             | 1.5m              | 1.5m              |
| Coverage                   | 12 m <sup>2</sup> | 12 / 15 m <sup>2</sup> | 15 m <sup>2</sup> | 12 m <sup>2</sup> |
| <b>Thermal Performance</b> |                   |                        |                   |                   |
| Core (R-Value)             | 0.99 m2k/W        | 1.63 m2k/W             | 2.57 m2k/W        | 3.58 m2k/W        |
| Roof (R-Value)*            | 1.90 m2k/W        | 2.27 m2k/W             | 3.47 m2k/W        | 4.42 m2k/W        |
| Wall (R-Value)*            | 2.32 m2k/W        | 2.73 m2k/W             | 3.91 m2k/W        | 4.88 m2k/W        |
| Floor (R-Value)*           | 3.64 m2k/W        | 4.37 m2k/W             | 5.22 m2k/W        | 6.53 m2k/W        |

\*Core value + 2 air spaces / EN 16012      Sizes / Figures are approximate & Subject to change without notice, tolerance +/-5%



SuperFOIL

# BREATHABLE INSULATION

## 3 IN 1 DESIGN

FOIL INSULATION,  
BREATHABLE MEMBRANE  
& RADIANT BARRIER

## ACHIEVE BUILDING COMPLIANCE

MEET OR EXCEED PROJECT  
REQUIREMENTS

## EASY TO INSTALL

NO SPECIALIST TOOLS  
REQUIRED

## SUSTAINABLE

MADE FROM UP TO 40%  
RECYCLED MATERIALS

## IDEAL FOR USE IN

NEW BUILD, RETROFIT,  
TIMBER-FRAME, DIY



✓ Roof



✓ Wall

SuperFOIL.co.uk



# BREATHABLE REFLECTIVE INSULATION FOR USE IN ROOFS & WALLS

## Say goodbye to condensation with the SuperFOIL Breathable range!

Our range of breathable products include SF19BB and SF40BB. Breathable multifoil products are typically installed on the external side of the construction. By doing so, they eliminate the need for an additional breather membrane layer.

The SuperFOIL breathable range helps protect your home from both rain and condensation damage. The integral 'W1 watertight' breather membrane serves as a secondary rain barrier while its high breathability allows moisture vapour to escape,

When used in place of a traditional breather membrane, the SuperFOIL Breathable range will provide maximum thermal performance and a

radiant barrier as well. Like all our products, these breathable foils are designed to be lightweight and easy to install, saving you space, time, and money.

**Top Tip** – Combine SuperFOIL Multifoil products with the Breathable Range in a 'duet' system to provide outstanding thermal performance by insulating both internally and externally.

### SF19BB

### SF40BB

| Product Dimensions  |                         |                         |
|---------------------|-------------------------|-------------------------|
| Thickness           | 40mm                    | 75mm                    |
| Length              | 10m                     | 10m                     |
| Width               | 1.2 / 1.5m              | 1.5m                    |
| Coverage            | 12 / 15 m <sup>2</sup>  | 15 m <sup>2</sup>       |
| Thermal Performance |                         |                         |
| Core (R-Value)      | 1.45 m <sup>2</sup> k/W | 2.92 m <sup>2</sup> k/W |
| Roof (R-Value)*     | 2.22 m <sup>2</sup> k/W | 3.67 m <sup>2</sup> k/W |
| Wall (R-Value)*     | 2.53 m <sup>2</sup> k/W | 3.98 m <sup>2</sup> k/W |

\*Core value + 2 air spaces / EN 16012      Sizes / Figures are approximate & Subject to change without notice, tolerance +/-5%



SuperFOIL

# UNDERFLOOR INSULATION

## 3 IN 1 DESIGN

FOIL INSULATION, VAPOUR CONTROL LAYER & RADIANT BARRIER

## APPLY SCREED DIRECTLY TO SFUF

THANKS TO THE PROTECTIVE TOP LAYER

## EASY TO INSTALL

NO SPECIALIST TOOLS REQUIRED

## ACHIEVE BUILDING COMPLIANCE

MEET OR EXCEED PROJECT REQUIREMENTS

## IDEAL FOR USE IN

NEW BUILD, RETROFIT, TIMBER-FRAME, DIY



✓ Roof



✓ Wall



✓ Floor

SuperFOIL.co.uk

# REFLECTIVE INSULATION

## FOR USE IN ROOFS, WALLS & FLOORS

### Efficient insulation when floor height is at a premium.

Originally designed for solid floor applications, SuperFOIL SFUF's high-performance insulation isn't limited to floors. It's also a versatile solution for roofs, walls, window reveals & even wrapping structural steels to reduce cold bridging.

When installed properly, SFUF offers multiple benefits for your home, including optimal thermal performance, thin construction, enhanced airtightness and improved sound insulation, reducing noise by up to 22dB.

SuperFOIL SFUF is lightweight, flexible and easy to install in a variety of floor types. Use it under screed, laminate flooring (with additional decking) or even over suspended floors, while maximising your usable space.

If you're planning to insulate underfloor heating pipes, SFUF makes it effortless. With the grid markings on the foil, installing pipework becomes quick and easy.

**Top Tip** – Top Tip – When installing with a screed finish, Fit SFUF with the clear polythene layer facing up into the room and use non-foil jointing tape. Also be sure to lap up the walls by 100mm or to suit the depth of screed.

## SFUF

#### Product Dimensions

|           |                   |
|-----------|-------------------|
| Thickness | 6mm               |
| Length    | 8m                |
| Width     | 1.5m              |
| Coverage  | 12 m <sup>2</sup> |

#### Thermal Performance

|                 |                        |
|-----------------|------------------------|
| Core (R-Value)  | 0.8 m <sup>2</sup> k/W |
| Roof (R-Value)  | 0.8 m <sup>2</sup> k/W |
| Wall (R-Value)  | 0.8 m <sup>2</sup> k/W |
| Floor (R-Value) | 0.8 m <sup>2</sup> k/W |

Sizes / Figures are approximate & Subject to change without notice, tolerance +/-5%



SuperFOIL

# FIRE RATED INSULATION

## FIRE RATED INSULATION

CLASS "0" FIRE  
PROPAGATION & CLASS "1"  
SPREAD OF FLAME

## ACHIEVE BUILDING COMPLIANCE

MEET OR EXCEED PROJECT  
REQUIREMENTS

## EASY TO INSTALL

NO SPECIALIST TOOLS  
REQUIRED

## SUSTAINABLE

MADE FROM UP TO 40%  
RECYCLED MATERIALS

## IDEAL FOR USE IN

NEW BUILD, RETROFIT,  
TIMBER-FRAME, DIY



✓ Roof



✓ Wall



✓ Floor

SuperFOIL.co.uk

# FIRE RATED REFLECTIVE INSULATION FOR USE IN ROOFS, WALLS & FLOORS

## For enhanced fire performance and peace of mind.

The SuperFOIL FR range delivers the same excellent U-values as our standard Multifoil range. This means not only will it provide added peace of mind but you also benefit from high-performing insulation, a much-needed vapour control layer and a radiant barrier.

The FR range has undergone rigorous testing and received British Standard (BS 476) Class 0 for Fire Propagation and Class 1 for Spread of Flame. This means that, SuperFOIL SF19FR limits heat release and the spread of flame in the event of a fire.

Choose SuperFOIL SF19FR for insulation that doesn't compromise on safety or efficiency. It's the best of both worlds.

**Top Tip** – Install with 38mm deep battens or metal brackets (depending on fire requirements), to maximise performance

## SF19FR

### Product Dimensions

|           |                        |
|-----------|------------------------|
| Thickness | 40mm                   |
| Length    | 10m                    |
| Width     | 1.2 / 1.5m             |
| Coverage  | 12 / 15 m <sup>2</sup> |

### Thermal Performance

|                  |                         |
|------------------|-------------------------|
| Core (R-Value)   | 1.31 m <sup>2</sup> k/W |
| Roof (R-Value)*  | 2.27 m <sup>2</sup> k/W |
| Wall (R-Value)*  | 2.73 m <sup>2</sup> k/W |
| Floor (R-Value)* | 4.37 m <sup>2</sup> k/W |

\*Core value + 2 air spaces / EN 16012      Sizes / Figures are approximate & Subject to change without notice, tolerance +/-5%



SuperFOIL

# NON-COMBUSTIBLE INSULATION

## FIRE RATED INSULATION

EUROCLASS A1  
NON-COMBUSTIBLE

## ACHIEVE BUILDING COMPLIANCE

MEET OR EXCEED PROJECT REQUIREMENTS

## REFLECTIVE PROPERTIES

REFLECTS UP TO 97%  
RADIANT HEAT

## 3 IN 1 DESIGN

FOIL INSULATION, VAPOUR CONTROL LAYER & RADIANT BARRIER

## IDEAL FOR USE IN

NEW BUILD, RETROFIT,  
COMMERCIAL,  
BUILDINGS OVER 18M



✓ Roof



✓ Wall



✓ Floor

SuperFOIL.co.uk

# NON-COMBUSTIBLE REFLECTIVE INSULATION FOR USE IN ROOFS, WALLS & FLOORS

## Our SFNC is the safest of the safe.

With a Euroclass A1 rating, SuperFOIL SFNC is truly a non-combustible product that will not ignite or burn. This means, SFNC will not contribute to the spread of fire and reduces the risk of fire spreading from one area to another.

Designed using the most innovative materials and technology, SFNC is also a very versatile product. It contributes to outstanding thermal performance and is your ideal solution for high-rise and commercial buildings over 18m in height.

Whether it's new construction or retrofit projects, you can confidently use SFNC in walls, roofs, and floors. Your safety is our top priority.

To learn more about how SFNC helped the Royal Papworth hospital achieve the high-rise fire and thermal performance requirements, visit our case studies page.

**Top Tip** – Install with 25mm deep battens or metal brackets (depending on fire requirements), to maximise performance.

## SFNC

| Product Dimensions  |                         |
|---------------------|-------------------------|
| Thickness           | 20mm                    |
| Length              | 9.5m                    |
| Width               | 1.2m                    |
| Coverage            | 11.4 m <sup>2</sup>     |
| Thermal Performance |                         |
| Core (R-Value)      | 0.62 m <sup>2</sup> k/W |
| Roof (R-Value)*     | 1.54 m <sup>2</sup> k/W |
| Wall (R-Value)*     | 1.99 m <sup>2</sup> k/W |
| Floor (R-Value)*    | 3.68 m <sup>2</sup> k/W |

\*Core value + 2 air spaces / EN 16012      Sizes / Figures are approximate & Subject to change without notice, tolerance +/-5%



SuperFOIL

# BUBBLE FOIL INSULATION

## 3 IN 1 DESIGN

FOIL INSULATION, VAPOUR CONTROL LAYER & RADIANT BARRIER

## REFLECTIVE PROPERTIES

REFLECTS UP TO 97% RADIANT HEAT

## EASY TO INSTALL

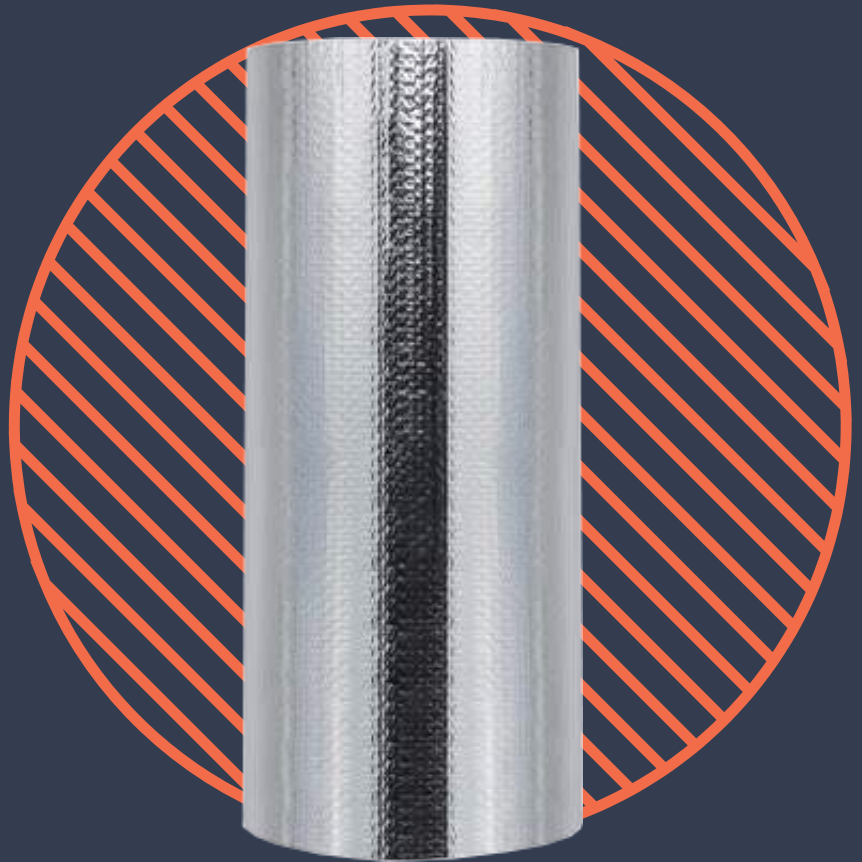
NO SPECIALIST TOOLS REQUIRED

## PRE-PACKED INSULATION KITS

RADIATOR, GARAGE DOOR OR SHED KITS AVAILABLE

## IDEAL FOR USE IN

NEW BUILD, RETROFIT, TIMBER-FRAME, DIY



✓ Roof



✓ Wall



✓ Floor

SuperFOIL.co.uk



# BUBBLE FOIL REFLECTIVE INSULATION FOR USE IN ROOFS, WALLS & FLOORS

## One product for all your DIY insulation needs.

SuperFOIL bubble foil is a multi-layer, air bubble foil insulation that's both waterproof and corrosion-resistant. It's perfect for a wide range of uses, making it a cost-effective and easy option for your DIY projects.

The bubble foil range can be used in various applications, such as insulating walls, roofs, garage doors, garden buildings, campervans and much more.

It's made from durable aluminium metalized PET and has a lifespan of 50+ years.

Available in different roll sizes and specialised DIY kits, it's the perfect product to always have in the shed for your DIY projects.

**Top Tip** – SuperFOIL bubble foil is an ideal supplement to existing insulation due to its radiant barrier properties, keeping your house warmer in winter and cooler in the summer.

### SFBA MP

### SFBA 2/2

### SFBA BB

| Product Dimensions  |                         |                         |                          |
|---------------------|-------------------------|-------------------------|--------------------------|
| Thickness           | 3mm                     | 6mm                     | 3mm                      |
| Length              | 25 / 50m                | 25m                     | 50m                      |
| Width               | 1.5 / 0.75m             | 1.2m                    | 1.35m                    |
| Coverage            | 37.5 m <sup>2</sup>     | 30 m <sup>2</sup>       | 67.5 m <sup>2</sup>      |
| Thermal Performance |                         |                         |                          |
| Core (R-Value)      | 0.12 m <sup>2</sup> k/W | 0.14 m <sup>2</sup> k/W | 0.125 m <sup>2</sup> k/W |
| Roof (R-Value)*     | 1.03 m <sup>2</sup> k/W | 1.04 m <sup>2</sup> k/W | 0.60 m <sup>2</sup> k/W  |
| Wall (R-Value)*     | 1.45 m <sup>2</sup> k/W | 1.47 m <sup>2</sup> k/W | 0.83 m <sup>2</sup> k/W  |
| Floor (R-Value)*    | 2.77 m <sup>2</sup> k/W | 2.79 m <sup>2</sup> k/W | -                        |

\*Core value + 2 air spaces / EN 16012      Sizes / Figures are approximate & Subject to change without notice, tolerance +/-5%



SuperFOIL

# RADIANT BARRIER MEMBRANES

## 2 IN 1 DESIGN

VAPOUR CONTROL LAYER  
& RADIANT BARRIER

## REFLECTIVE PROPERTIES

REFLECTS UP TO 97%  
RADIANT HEAT

## EASY TO INSTALL

NO SPECIALIST TOOLS  
REQUIRED

## ACHIEVE BUILDING COMPLIANCE

MEET OR EXCEED PROJECT  
REQUIREMENTS

## IDEAL FOR USE IN

NEW BUILD, RETROFIT,  
TIMBER-FRAME, DIY



✓ Roof



✓ Wall



✓ Floor

SuperFOIL.co.uk

# REFLECTIVE RADIANT BARRIERS FOR USE IN ROOFS, WALLS & FLOORS

## Reduce up to 97% of radiant heat loss.

Our high performance Reflective Membrane range comprises of both vapour control layer (VCL) and breathable membranes which effectively reduce the risk of condensation in roofs, walls, and floors.

SuperFOIL SFTV and SFTV 1L, recognized as reflective vapour control layers (VCL), offer nearly three times the performance of standard VCL membranes. A 2-in-1 solution, integrating a built-in vapour control layer and a radiant barrier. Specifically designed to keep your home cool in summer by reflecting radiant heat from entering and warm in winter by retaining heat.

In contrast, SuperFOIL SFBB stands out as a breathable, reflective membrane, uniquely designed to function as a radiant barrier and offer breathability. This product is W1 Watertight allowing it to be used on the external side of both roofs and walls as a secondary rain barrier.

**Top Tip** – When installed next to an air space, such as a service cavity, SuperFOIL reflective membranes provide excellent thermal insulation properties.

|                           | SFTV 1L           | SFTV                     | SFBB                | SFTV FR               |
|---------------------------|-------------------|--------------------------|---------------------|-----------------------|
| <b>Product Dimensions</b> |                   |                          |                     |                       |
| Thickness                 | <1mm              | <1mm                     | <1mm                | <1mm                  |
| Length                    | 20m               | 25 / 50m                 | 25m                 | 25 / 50m              |
| Width                     | 1.2m              | 1.5m                     | 1.5m                | 1m                    |
| Coverage                  | 24 m <sup>2</sup> | 37.5 / 75 m <sup>2</sup> | 37.5 m <sup>2</sup> | 25 / 50m <sup>2</sup> |
| <b>Performance</b>        |                   |                          |                     |                       |
| Roof (R-Value)*           | 0.47 m2k/W        | 0.95 m2k/W               | 0.29 m2k/W          | 0.49 m2k/W            |
| Wall (R-Value)*           | 0.71 m2k/W        | 1.42 m2k/W               | 0.36 m2k/W          | 0.74 m2k/W            |
| Floor (R-Value)*          | 1.4 m2k/W         | 2.8 m2k/W                | N/A                 | 1.62 m2k/W            |
| Water Vapour Resistance   | 1200+ MNs/g       | 1200+ MNs/g              | 0.115 MNs/g         | 2500 MNs/g            |

\*Core value + 2 air spaces / EN 16012      Sizes / Figures are approximate & Subject to change without notice, tolerance +/-5%



# PROJECT

# CARDIFF UNIVERSITY

## PROJECT TYPE

COMMERCIAL

## APPLICATION

WALL

## PRODUCTS USED

**SFNC**



## The Project

In 2017, Cardiff University unveiled plans to build three brand-new buildings which would create a modern and innovative workspace with cutting edge facilities for researchers, students and startup businesses.

At the heart of Cardiff Innovation Campus (CIC) is the Innovation Centre building which will bring together entrepreneurs, business leaders, academics and students – creating a unified and progressive environment to work and learn.

Within the multi-million pound, 12,000m<sup>2</sup> building, there will be 2,800m<sup>2</sup> of commercial units for spin outs and start-ups, including 500m<sup>2</sup> of commercial wet lab space.

# CASE STUDY

## The Problem

Cardiff Innovation Campus boasts exciting new facilities that act as a magnet for research and investment. It's a home to modern facilities including high-speed broadband, a brand-new cafe, hot-desking and co-working areas, central reception and a conference space for up to 200 people.

Due to the modern design of the building, builders required the highest quality materials to ensure maximum efficiency and safety. The insulation needed to deliver a high level of thermal resistance without taking up space, and it was of fundamental importance that the insulation was non-flammable and non-combustible. Developers sought the help of SuperFOIL to meet these needs and provide a modern insulation solution for the Cardiff Innovation Centre. Naturally, we were delighted to get involved in the project.

## The Solution

SuperFOIL experts advised that our SFNC non-combustible solution would be the most suitable for the project. Because of the scale of the building, we have supplied 4,000 sq ft of insulation – making this one of our biggest deliveries so far.

SuperFOIL SFNC is a Euro Class A1 Non-Combustible multi-foil insulation meaning it was the perfect solution for the CIC's necessary fire requirements. Due to the nature of the building, it was vital to use a non-combustible insulation system.

SFNC is the only insulation of its kind to be certified by the Building Research Establishment (BRE) as Euro Class A1 Non-Combustible,

which is the highest possible rating of fire safety.

SFNC is also quick and easy to apply and, because it offers an R-Value of up to 1.54 despite measuring just 20mm in thickness, it was the ideal insulation solution for this project.

Currently, the Cardiff Innovation Campus and the Innovation Centre are still under construction and are due to open in 2021. Once completed, the project will open the door to innovation and creativity and will push the boundaries of modern architecture.

Despite the slim 20mm width of SuperFOIL's SFNC insulation, the product offers exceptionally high thermal performances. Its roof performance is 1.54 R-value, walls have a 1.99 R-value and flooring has a 3.68 R-value.

Additionally, SFNC also has outstanding fire performance levels including an official Class A1 'non-combustible' rating which is the best possible rating.

**CEO of SuperFOIL Insulation, William Bown said:**

*"Modern buildings require modern materials, at SuperFOIL, we were happy to provide the highest quality insulation for this brand-new, state-of-the-art university building."*

*"We can't wait to see the finished project, the plans of the building look fantastic and we're delighted to have been chosen by head developers to play a part in this soon-to-be iconic landmark in the heart of beautiful Cardiff."*



# PROJECT

# HIGHLAND HOME

## PROJECT TYPE

COMMERCIAL

## APPLICATION

WALL

## PRODUCTS USED

**SF19**



## The Project

A 200 sqm, highly energy-efficient new build project in a remote location in the Highlands of Scotland.

Built using sustainable materials, and with the timber frame sourced locally and wood fibre insulation used alongside SuperFOIL Insulation throughout.

Powered throughout the year using solar PV and battery storage.



# CASE STUDY

## The Problem

Looking to increase the thermal resistance of the building envelope in order to reduce energy usage. With the building using an air source heat pump and underfloor heating, they wanted to make sure that any heat loss was minimised.

With a 200sqm space to fill, it was vital that they chose the correct insulation to use in the walls and roof.

## The Solution

Mike decided to use SuperFOIL SF19 in his building to help with the thermal resistance of the build. By using our product in combination with other insulations, he achieved better than Passivhaus standard throughout the build!

SuperFOIL SF19 is a multifoil product, made of wadding, aluminium coated PET layers and Foil Laminated Outer Layers. At only 40mm thick and providing an R-value of 2.14 when used in a roof, SF19 can be used on its own or in combination with other types of insulation. A fully flexible product that provides a vapour control layer as well as acting as a radiant barrier.

Mike reported that the product was “extremely easy to fit” and that they wouldn’t have been able to meet the standards they did “without using SuperFOIL”.

### **Here’s what Mike said:**

*“I have been aware of SuperFOIL products for some time – I lecture in Architectural Technology at UHI Inverness College so I ensure that I am always up-to-date with new products. I used your online data in choosing SF19 and was in touch with your technical support to check out alternatives and to get information for installation.*”

*This project uses my experience of working on previous projects in the Highlands over many years.*

*My design uses locally sourced untreated timber and ecological insulation materials wherever possible to achieve the best standards of thermal performance for the budget available.*

*I have been involved in specifying low carbon energy solutions such as solar PV, battery storage, heat pumps and off-grid services for a number of years, so the use of the best insulation products is essential in order to optimise these opportunities to reduce energy usage.”*



# PROJECT

# HEREFORDSHIRE HOUSING ASSOCIATION

## PROJECT TYPE

COMMERCIAL

## APPLICATION

WALL

## PRODUCTS USED

SF40

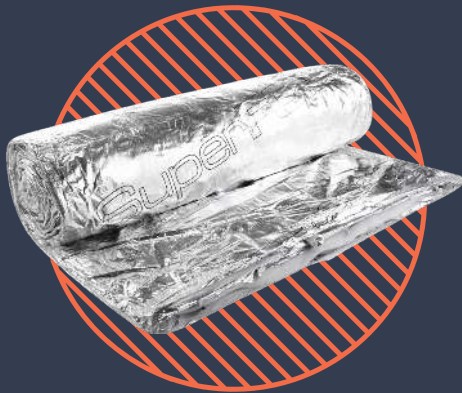


## The Project

Recently, Herefordshire Housing Association, part of Connexus, announced plans of a five year project with the aim of improving the energy efficiency levels of its entire housing stock, which includes over 500 Cornish type houses across Herefordshire.

Many of these homes were built between 1946 and the 1960's as a 'temporary' solution to the post-war housing crisis and they are easily recognised because of their distinctive Mansard roof structure. While they were intended to be temporary, these Cornish-type homes are still inhabited by thousands of people across the country.

Herefordshire Housing Association have invested £3.5 million over 5 years to increase energy efficiency in their existing properties.





# CASE STUDY

## The Problem

The contractors, Merriman Roofing and distributor Encon Insulation were given the target of improving the thermal performance of this insulation in the Mansard roofs to a u-value of 0.30 W/m<sup>2</sup>K, while minimising the disruption to residents which wouldn't have been possible using traditional means. Because the houses were occupied, all improvement works needed to be carried out from the outside to minimise the impact on the occupants.

Unfortunately, due to the Mansard roof which covers the second storey of the building, it's difficult to significantly improve the energy efficiency of the homes using traditional materials and tools, with a u-value target of 0.30 W/m<sup>2</sup>K, traditional insulation was too thick.

In the past, efforts to improve the insulation of the Cornish-type homes have been limited by the design of the roof. Achieving a good fit within the timber frame using externally applied options has proved to be challenging due to the narrow cavity between the interior wall and the exterior roof and applying products from inside can typically be disruptive and intrusive for occupants.

## The Solution

To overcome this issue, the companies sought our expert advice and services to provide cost-effective insulation which could be quickly and easily applied from the outside of the property and which met their targets for thermal performance.

After visiting the houses that required new insulation, our experts came to the conclusion that our SuperFOIL SF40 multifoil insulation

would be the perfect solution to the problem. Because SF40 measures to be just 65mm thick when installed, it was a suitable fit for the unusual Cornish-type properties and their distinctive roofs which only allow a narrow space for insulation.

**Director of Merriman Roofing, Mike Merriman, said:**

*"SuperFOIL's SF40 multifoil insulation was the only product on the market that could do the job and we've used it on every one of the 500 homes to great effect. Using SuperFOIL, we've exceeded our target and cut the u-value to just 0.26 W/m<sup>2</sup>K."*

*"The SF40 insulation has been quick and easy to install, enabling us to complete the work with minimal disruption to residents. The upgraded houses should cut residents' heating bills significantly and they'll be much more comfortable in their homes over winter.."*

**Managing Director - Distribution of Encon Insulation, Steve Clarke said:**

*"Encon were proud to be involved with the Herefordshire Housing contract. SuperFOIL were very helpful in providing calculations to ensure we achieved the correct specification for the contract."*

*"It was great to see modern construction materials being used on the traditional Cornish type properties. The products worked well and were easy to install for our customer, Merriman Roofing. SuperFOIL were helpful throughout the project and the products performed well."*



PROJECT

# THE WOODSMAN'S TREEHOUSE

## PROJECT TYPE

DIY

## APPLICATION

WALL

## PRODUCTS USED

SF60



## The Project

Completed in 2016, The Woodsman's Treehouse is a unique property set high up in the branches of a 200-year-old oak tree in Dorset. This woodland retreat is an award-winning treehouse with a unique design. It's a six-meter-tall structure located 30 feet above the ground. The interior features an open-plan living area, a high-quality kitchen, a wood-burning stove, and a roll-top bath. Outside, you'll find a picnic area with a wood-fired pizza oven and barbecue, an outdoor tree shower, and a spiral staircase leading to a top-floor hot tub and sauna.

The treehouse has two levels connected by a wooden rope bridge and a stainless steel slide for a fun exit. The building is eco-friendly, supported by metal screw piles that don't harm the oak tree, allowing rainwater to run down the stems, preserving the local ecosystem. Go five metres into the ground and the build is completely sustainable. The structure doesn't touch the veteran oak tree at all, so rainwater can run down the stems and wildlife can travel up and down normally, maintaining the delicate ecosystem of the tree.



# CASE STUDY

## The Problem

Guy Mallinson, master craftsman and builder of The Woodsman's Treehouse, needed high performing insulation for the walls of the treehouse in order to keep guests warm year-round.

Due to the already compact area he was building the treehouse in, Guy didn't want to compromise on space when it came to the thickness of the walls. He needed space saving insulation that still maintained the performance levels of traditional insulation, in order to make sure the heat produced from the wood burner didn't escape from the building.

## The Solution

SuperFOIL provided the project with our SF60 multifoil insulation, which is the world's highest performing multifoil. The insulation is just 100mm thick, so was the perfect solution to ensure space wasn't compromised, whilst still offering high thermal performance. The insulation has a 3-in-1 design which consists of three layers- insulation, vapour control and radiant barrier. What this meant was that the treehouse would be protected from condensation whilst still maintaining the right temperature, whatever the season. Offering excellent value for money, SF60 is ideal for both new build or retrofit.

The insulation is also made from 40% recycled materials has a life span of 50+ years, so contributed to the sustainability of the project.

**CEO of SuperFOIL Insulation, William Bown said:**

*"It was a pleasure to contribute to the success of this ambitious and spectacular project- The Woodsman's Treehouse is just an amazing build.*

*"By completing this project, Guy Mallinson was fulfilling a childhood dream so we wanted to do everything we could to help it reach completion as soon as possible.*

*"We're very pleased to have been able to provide insulation which met his expectations- the product was easily applied and its narrow thickness and outstanding thermal performance meant it was perfect for this project."*



| Product | Coverage (m2) | Thickness | Thermal Performance Rating | Cost |
|---------|---------------|-----------|----------------------------|------|
| SF6     | 12            | 30mm      | ★☆☆                        | £○○○ |
| SF19+   | 12 / 15       | 45mm      | ★★★                        | ££○  |
| SF19BB  | 15            | 40mm      | ★★★                        | ££○  |
| SF40    | 12 / 15       | 65mm      | ★★★                        | £££  |
| SF40BB  | 15            | 75mm      | ★★★                        | £££  |
| SF60    | 12            | 100mm     | ★★★                        | £££  |
| SFTV    | 37.5 -75      | <1mm      | ★★★                        | £○○○ |
| SFBB    | 37.5          | <1mm      | ★★★                        | £○○○ |
| SFBA    | 3-37.5        | 3mm       | ★★★                        | £○○○ |
| SFUF    | 12            | 6mm       | ★★★                        | ££○  |
| SFNC    | 11.4          | 20mm      | ★★★                        | £££  |

| Roof | Wall | Floor | Internal / External | Ideal For  |
|------|------|-------|---------------------|------------|
| ✓    | ✓    | ✓     | Internal            | DIY        |
| ✓    | ✓    | ✓     | Internal            | Renovation |
| ✓    | ✓    |       | External            | Renovation |
| ✓    | ✓    | ✓     | Internal            | New Build  |
| ✓    | ✓    |       | External            | New Build  |
| ✓    | ✓    | ✓     | Internal            | New Build  |
| ✓    | ✓    | ✓     | Internal            | Renovation |
| ✓    | ✓    |       | External            | Renovation |
| ✓    | ✓    | ✓     | Internal            | DIY        |
| ✓    | ✓    | ✓     | Internal            | Renovation |
| ✓    | ✓    | ✓     | Internal            | Commercial |



# SuperFOIL Insulation

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## Save Space

SuperFOIL products have a higher thermal performance in a thin, lightweight and easy to install product. This means your build depth/rafter depth can be reduced.



## Save Time

Multifoils are quick & easy to install. Simply roll out across rafters and studs in a continuous layer. There is no need to 'cut & fit' between timbers like traditional insulation.



## Save Money

SuperFOIL's 3 in 1 products help save you money by providing thermal insulation, radiant barrier, vapour control/breathable membrane in one, reducing the need to install additional layers.

## Sustainability with SuperFOIL

Keeping sustainability at the core of what we do, we have made incredible efforts to cut down waste and emissions in the last 15 months. We are pleased to share a list of our top initiatives from 2022 to the present in an effort to achieve carbon neutrality by the end of 2030.

- Our range of foil insulation products are made from up to **40% recycled materials**. In fact, the wadding that is a core component of SuperFOIL insulation products are made from up to **75% recycled** content on average.
- Our 3 in 1 product is designed to **minimise product wastage** during installation and offers flexibility in transportation and delivery, saving approximately **3,765 kg of carbon emission** for a 500 miles round trip.
- **1 truck of SuperFOIL** can insulate the same number of homes as **6 trucks of PIR**.
- Just one roll of SuperFOIL SF40 contains recycled content equivalent to **over 500** plastic bottles and in the last 12 months SuperFOIL have used the equivalent of approx. **80 million** recycled bottles in our products.
- SuperFOIL's production facility and headquarters in Lincolnshire sends **Zero Waste to landfill!**

# SuperFOIL

Insulation

## Change the way you insulate.

SuperFOIL offers high-performing multifoil insulation solutions for trade contractors, professionals and DIY projects through stockists, retail and online outlets. We are committed to providing you with the best solution – through honest, expert, technical advice.



### Technical support

- U-Value Calculations
- Condensation Risk Analysis
- Specification Advice
- Free Discovery Sessions



### Sustainable

- 40% Recycled Material
- Minimal Wastage
- Zero Waste to Landfill
- Reduced CO2 Emission



### 3 In 1 Multifoil

- Reflective Foil Insulation
- Vapour Control Layer
- Radiant Barrier
- Certified High Performance



### Application

- Roof, Wall & Floor
- New Build & Retrofit
- DIY Solutions
- Easy to Install

# SuperFOIL

## Insulation

### Address UK


Boulder Developments, Boulder Business  
Park, Pioneer Way, Lincoln LN6 0QR


### Address EU

Boulder Developments, B.V Ground.  
1st, 2nd and 3rd Floor.  
Joop Geesinkweg 901 999,  
Amsterdam, 1114 AB, Netherlands

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 01636 639900

 [sales@superfoil.co.uk](mailto:sales@superfoil.co.uk)

 [www.superfoil.co.uk](http://www.superfoil.co.uk)