

Super**FOIL**
Insulation

Installation Guide

Floors

SFUF
Super**FOIL**



Assessments to Complete Before Installation

- Confirm any local building regulations or restrictions that need to be adhered to during the job. It is essential to ensure compliance with the latest Building Regulations, particularly Part L (Conservation of Fuel and Power), which sets standards for energy efficiency.
- Inspect the work area for any existing damage that may require repairs before installing insulation, such as dampness on the floor that could require an additional damp-proof membrane. For guidance on damp-proof courses and membranes, refer to the code of practice in BS 8215:1991.
- Confirm the insulation areas and calculate the required material quantities.
- Arrange for isolating or removing services (gas, electric, water, telephone) if needed.
- Verify that checks for asbestos-containing materials are complete. This is a legal requirement under the Control of Asbestos Regulations 2012.
- Assess the condition of surrounding areas for suitability.



Tools Required

To ensure a smooth and effective installation of SuperFOIL insulation, the following tools may be needed, depending on the scope of your project.

Recommended Tools:

- **Staple Gun:** Complete with the correct size stainless or galvanised steel staples.
- **Cutting tools:** Shears, rotary cutter, or scissors to cut/shape the SuperFOIL.
- **Sealing the SuperFOIL:** For sealing all edges, joints, and penetrations, use a non-foil faced tape for under-screed applications and SuperFOIL Multifoil Tape for all other non-screed uses. **OPTIONAL:** Double-sided tape and/or mastic sealant for sealing penetrations as required.
- **Battens:** Treated battens to secure the SuperFOIL in place after stapling (if required).
- **Screws:** Galvanised or stainless steel screws suitable for fixing the battens.



Recommended Products

- **SuperFOIL SFUF:** Solid floors, block and beam floors, suspended timber floors, under carpets.
- **SuperFOIL SF19+:** Suspended timber floors, solid floors with battens.

Recommended Minimum Batten and Staple Sizes

SuperFOIL Product	Batten Size	Staple Size
SF19+	25mm* (above) / 38mm* (below)	14mm
SFUF	N/A	14mm

- *Required battens for solid floors with battens.

Installing SuperFOIL SFUF Onto Solid Floors

To install SuperFOIL SFUF onto solid floors, ensure the surface is clean, dry, and smooth, and position the material with the clear polythene layer facing upwards.

Begin installation at the edge of the wall. Where required, extend the material up the wall by up to 100 mm and secure it in place using an appropriate tape, staples and/or mastic sealant. Unroll the SFUF across the floor. At any joints between rolls, align the edges without overlapping (butt joint).

If screeding, seal the seams with a non-foil based tape, as foil-based tapes can react with some screed compounds (foil tape can be used if NOT screeding). The built-in polyethylene layer on the SFUF product acts as a protective barrier, so an additional separating layer is not needed. If additional insulation (e.g., PIR, or XPS) is needed, install it on top of the SuperFOIL SFUF layer.

For Underfloor Heating Systems

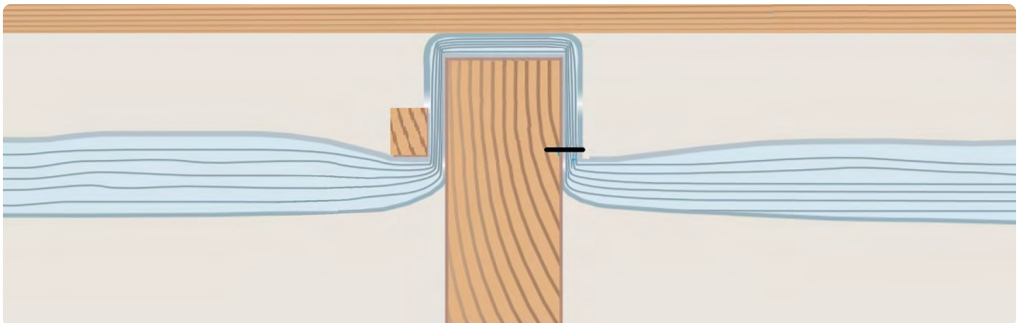
- Lay self-adhesive clip rails or fixing boards directly over the SFUF layer.
- Properly seal any holes or penetrations in the foil layer using Butyl tape if applying a screed finish or SuperFOIL MultiFOIL Tape when finishing with timber boarding.
- Position the heating pipes, followed by the application of screed or timber boarding.
- Always follow the manufacturer's guidelines for proper installation of the underfloor heating system..
- When using a screed, consult the screeding contractor for guidance on screed depth and ensure compliance with relevant standards such as BS 8204-1. Recommended minimum screed depths are 65-75mm for sand and cement screed, and 35-55mm for flowing or liquid screed.

For timber boarding, use boards with a minimum thickness of 18mm, such as plywood, chipboard, or OSB. The floor finish (carpet, or LVT etc) should be installed as per the manufacturers instructions.

Suspended Timber Floors

SuperFOIL SF19+

- If additional insulation is being used between the joists, install it first between the joists in accordance with the manufacturer's guidelines.
- Begin installation of SuperFOIL SF19+ at the wall edge, lapping the material up the wall slightly to maintain a continuous insulation layer and ensure airtightness.
- Seal around the edge using SuperFOIL MultiFOIL tape.
- Additional insulation should be pushed down to create a 150mm cavity or so the bottom of the insulation is flush with the bottom of the joists (whichever is less, then the SuperFOIL SF19+ should be installed halfway between the top of the joists and the top of the additional insulation.
- If not using additional insulation, then a 50mm cavity above the SuperFOIL SF19+ would provide maximum thermal performance.
- Secure the product in place using SuperFOIL Spacers or alternatively, use staplers and/or battens.
- If the overlap interferes with any boarding, simply cut away one section of this overlap where the boarding crosses the top of the joist
- Where rolls meet, align the edges by overlapping the products by around 100mm and seal the ends with SuperFOIL MultiFOIL tape. It is important to ensure this is sufficiently sealed to ensure airtightness.
- Any penetrations should be sealed with tape to ensure airtightness..
- Install/reinstall the floorboards over the joists once the insulation is securely in place.



Considerations

Underfloor Heating

When installing underfloor heating using rails or clip trays, ensure that any holes or penetrations in the foil layer are properly sealed. Use Butyl tape if you're applying a Screed finish, or SuperFOIL Multifoil Tape when finishing with chipboard or plywood.

In most cases involving a solid concrete floor, a self-adhesive clip rail or board is laid directly over the SFUF. The heating pipes are then positioned, followed by the application of screed or boarding.

Always follow the manufacturer's guidelines for proper installation of the underfloor heating system.

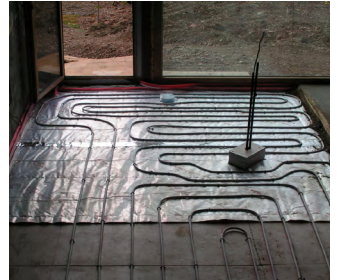
Taping Under Screed

When installing SuperFOIL SFUF under a screed, it's crucial to use the correct tape.

Foil-based tapes should not be used, as they can react with certain screed compounds.

For this reason, we recommend using a non-foil-based tape designed for screed applications.

The SuperFOIL SFUF product already includes a built-in polyethylene layer that acts as a protective barrier, preventing any potential reaction with the screed and eliminating the need for an additional separating layer.



SIGN-OFF SHEET

Start Date

Completion Date

Project Name:

- Has the floor been inspected for suitability and any damage/condensation been assessed?
- Has the product been cut and trimmed to size?
- Has the product been sealed and taped at the ends before installing?
- Has the product been stapled at intervals no greater than 300mm?
- Have all joints, penetrations, and overlaps been taped?
- Has the correct sized counter batten been applied?
- Has the counter batten been installed at a maximum 600mm centres?
- Have you taken photos of the installation process at each stage—before, during, and after completion?

Clients comments

Project managers comments

Client Signature:

Project Manager
Signature:

Date:

Date:

SuperFOIL


Insulation


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