



MULTIFOIL INSULATION.

IS IT:

Product

Technology

Equipment

APPLICABLE FOR:

Restoration

Rehabilitation

New Construction

APPLICABLE ON:

1. Foundations and underground structures

2. Vertical structures

3. Horizontal structures and vertical connections

4. Roof and terraces

5. Façade and building envelope

6. Finishes and completion elements

7. Integrated services

8. General strategies for building recovery

Related companies: Super Foil.

DESCRIPTION

Insulating your home properly is an excellent way to make it more energy efficient. This means you use less energy and reduce your carbon footprint. However, super foil insulation is also better for the environment as it's made from 40% recycled materials. This means that you can be sure that your new build, or home upgrade, is kept as environmentally friendly as possible.

Multi foil insulation can be used on its own, with various levels of insulation, or can be used with other products to get a great result. If you already have another multilayer insulation installed, then multi foil can then be added on top, meaning even the draughtiest of old houses can become warm and cozy.

WHY TO USE

Multifoil is a type of insulation that's made up with layers of foil as well as wadding. Multi foil insulation is often carried out on new builds, but it can also be added to older properties.

HOW TO USE AND APPLY

It's easy to install and has several useful properties, such as:

Vapor control – this stops the insulation becoming damp, keeping it effective.

Can be used alone or with other insulation.

The foil layer reflects heat, stopping it escaping the building.

Thinner than traditional insulation, making it suitable for walls, floors, or ceilings.

Installing foil insulation on new-build or retrofit walls:

SuperFOIL insulation can be installed in numerous places in your home, walls included. You start by applying battens in a horizontal or vertical manner on walls. The size of the battens depends on the foil insulation you use. Next, you must apply the foil following the same direction you applied the battens.

Just like you would do on a pitched roof, you start from the bottom and go up if you install horizontally or start high and roll down if you install vertically. Apply tension when

stapling the insulation to the battens at intervals of 50 to 100 mm. When you finish with one layer, cut the to the length and start with the next. Once again, when the joints cross the batten, staple the joints. Be sure to maintain a distance of 50 mm when overlapping the joints.

Always let the product overlap at the floor and ceiling to allow for a good seal. Once that is done, fix with a batten. Remember to also add the battens around the window reveals.

Once again, if you notice any cuts or tears, use the SuperFOIL tape to fix them. Make sure you do this before fixing the external surface to the battens.

If installing externally, it is recommended to install a secondary rain barrier such as a breathable membrane as close to the external finish as possible. Of course, if you choose our SuperFOIL SF19BB, you won't have to deal with any breathable membrane layers, as this product provides ample insulation and breathable materials in one high-quality layer.

Installing foil insulation over the rafters:

It's up to you whether you want to apply the foil insulation on the rafters in a horizontal or vertical manner. If you choose the former, we recommend you start out from the bottom and work your way up by ensuring the insulation overlaps at each junction it meets. However, if you install it vertically, be sure to start from a high point and roll the insulation down.

One thing you must keep in mind is to always trim the foil insulation around the rafters at the eaves. Afterwards, use the tape to seal it to the wall plate. Moreover, if you happen to notice any tears or cuts, use the tape to cover them.

Next, you will need to ensure there is proper air space, so you will have to install a batten. What comes next is installing a breather membrane on the batten, followed by tile batten and tiles.

One last aspect to keep in mind is to add a vapor check control layer behind the plasterboard. This is recommended when installing foil insulation over the rafters because it helps reduce the risk of interstitial condensation.



TECHNICAL CHARACTERISTICS

It can be used almost anywhere, it's not just for roofs but also walls and floors.

In the summer, the foil reflects sun rays, so the house doesn't get too hot, in the winter the heat in the house is retained by bouncing off the foil, reducing heat loss.

Multifoil insulation can be used on its own, with various levels of insulation, or can be used with other products to get a great result. If you already have another multilayer insulation installed, then multi foil can then be added on top, meaning even the draughtiest of old houses can become warm and cozy.

RECOMMENDATIONS AND OTHER INFORMATION

If you are adding insulation for a new build, then you want to know it'll meet building regulation standards, so you don't suffer delays in getting approval. Multi foil insulation from Super Foil is LABC Registered System approved, saving you time, and meaning you aren't stuck having to make replacements if you use a cheaper, inferior product.

EXAMPLES

Suitable for warmer climates, although it has good thermal properties, the product thickness is too small to ensure efficient use of the material in cold climates. The thermal insulation layer is suitable only for ventilated structures.

REFERENCES / SOURCES AND LITERATURE

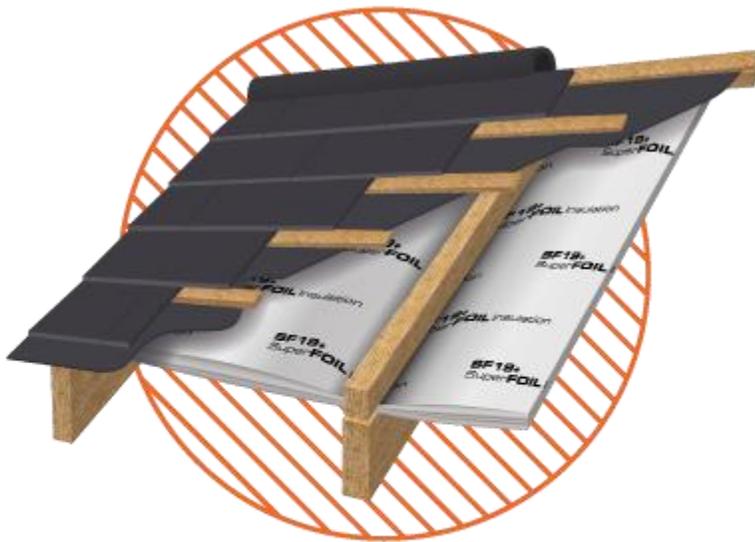
<https://www.superfoil.co.uk/easy-tips-for-installing-foil-insulation-the-right-way/>

WEBSITE OF THE COMPANY

<https://www.superfoil.co.uk/>

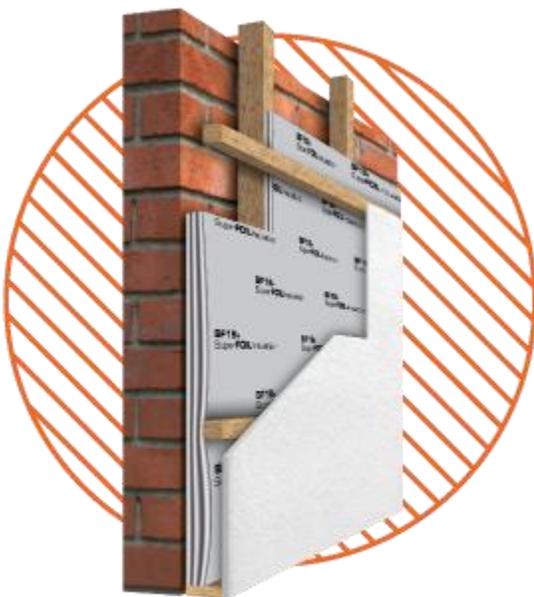


IMAGES AND CAPTIONS



ROOF

Fig.1: Ventilated roof construction. © <https://www.superfoil.co.uk/roof-application/>



WALL

Fig.2: Ventilated wall construction. © <https://www.superfoil.co.uk/wall/>



FLOOR

Fig.3: Ventilated floor construction. © <https://www.superfoil.co.uk/floor/>



Fig.2: Roof and wall insulation. © <https://www.superfoil.co.uk/vapour-control-multi-foil-insulation/>