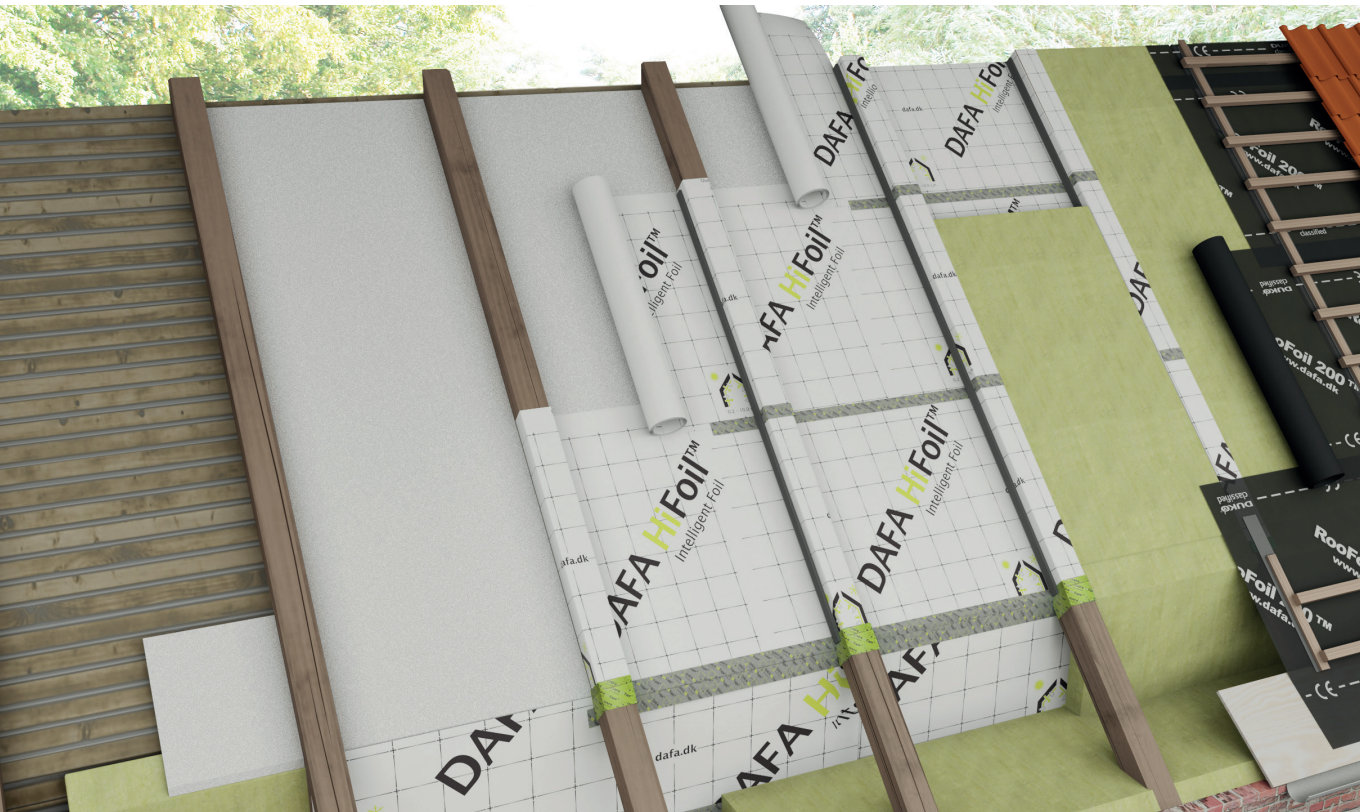


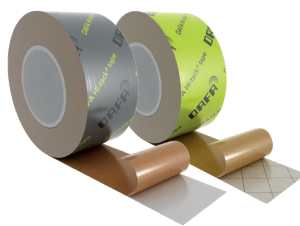
The roof structure that allows additional insulation to be added from outside

Using DAFA HiFoil you can create a vapour barrier from outside when renovating a roof. This means you do not have to replace any ceilings. The existing insulation and any areas of vapour barrier that have lost their sealing characteristics are removed, and DAFA insulating matting is spread out to protect DAFA HiFoil against projecting nails and screws.

DAFA HiFoil is laid flat on top of the DAFA insulating matting and over the existing rafters. The sheeting is secured to the rafters with DAFA self-adhesive strip. All joints are taped up so that a fully sealed solution is obtained. The new insulation is then inserted between the rafters. The result is a new, tight vapour barrier and a new roof without serious additional expense.



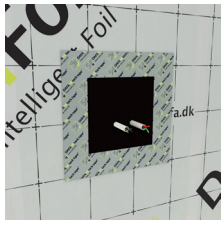
Accessories for DAFA HiFoil



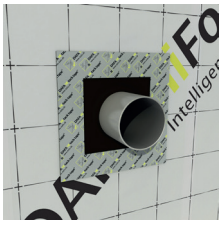
DAFA Hi-tack tape
Grey for straight sections.
Lime where flexibility is needed



DAFA foil adhesive



DAFA Hi-tack cable collar 195



DAFA Hi-tack pipe collar

DAFA HiFoil™

For construction tasks involving special requirements for vapour barriers



Warranty.
DAFA offers a function and product warranty for 10 years on all products associated with DAFA AirStop System.

Application

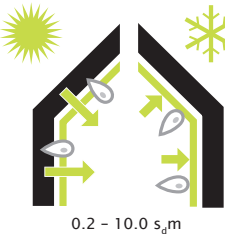
DAFA HiFoil can be used in compact structures where foils need to be used in close connection with insulation materials. DAFA HiFoil is particularly suitable for

- Holiday homes
- Buildings that are only heated intermittently
- Roof renovations carried out from the outside
- Cassette-type or compact construction work

DAFA HiFoil adapts to the relevant humidity by means of variable water vapour diffusion resistance, thereby achieving either a drying or vapour-retardant function. Under certain conditions, DAFA HiFoil may be used in unventilated structures. In such cases, an assessment of the moisture conditions in the relevant building must be carried out.

Material

The product consists of a polyethylene (PE) rolled product coated with moisture-absorbent polypropylene (PP) insulation. The vapour barrier is strong and stable and, if correctly installed, ensures an airtight and damp-proof structure. DAFA HiFoil meets the strict requirements of the building regulations (DK) for vapour barrier foil and is approved in accordance with EN 13984-2013.



Product benefits

- Allows condensation to move across the structure while sealing against normal vapour pressure
- Can easily be shortened using a craft knife
- Can be used in ceiling and wall structures

DAFA HiFoil™ - based on a moisture adaptive principle

Summer

Evaporation period
Drying function

HiFoil values
Sd-value: 0,2
Z-value: 1,15

High pressure Low pressure

The resistance to vapour diffusion is low. Moisture that has penetrated the structure can be dried out quickly and safely.

Winter

Condensation period
Vapour-retardant function

HiFoil-values
Sd-value: 10
Z-value: 56,8

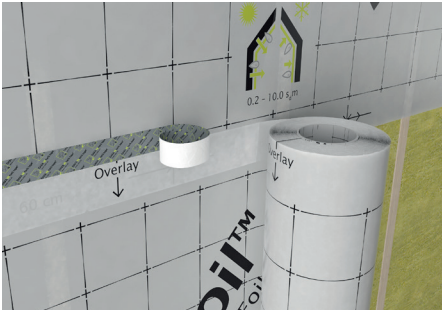
High pressure Low pressure

The resistance to vapour diffusion is high. It minimises unwanted penetration of moisture into the structure.

Product data

Technical specifications for HiFoil™		
Length	EN 1848-2	50 m
Width	EN 1848-2	1,5 m
Roll width		1,5 m
Weight	EN 1849-2	100 g/m²
Thickness		0,2 mm
Tear strength, longitudinal	EN 12311-1	270 N/ ±30N/50 mm
Tear strength, transverse	EN 12311-1	110 N/ ±30N/50 mm
UV stability		2 months
Vapour diffusion resistance	EN 1931	Sd-value: 0,2 - 10m
Fire classification	EN 13501-1	E
Temperature range		-40 °C to +100 °C
Color		White
DAFA nr.		620026581
EAN nr.		5705636422312

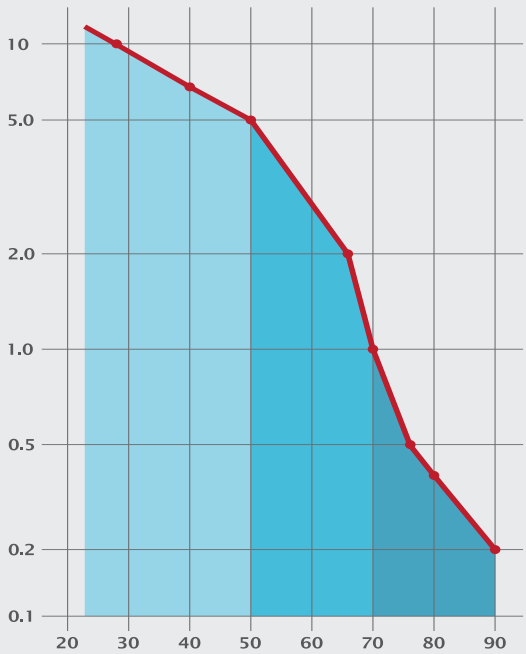
LCA calculation		
Product	Unit	GWP-total (A1-A3)
DAFA HiFoil	kg CO2 eq./m²	1,160



NEW

Download EPD for DAFA HiFoil here:
www.dafa-build.com/en/epd
or scan the QR code

DAFA HiFoil's reaction to external air humidity

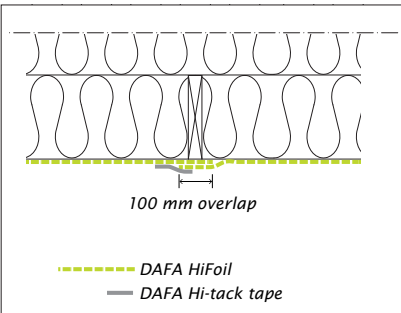


Condensation period: Sd = 5-10 m:
The high Sd value reduces unwanted penetration of moisture into the structure, at the same time as preventing the air inside from becoming dry.

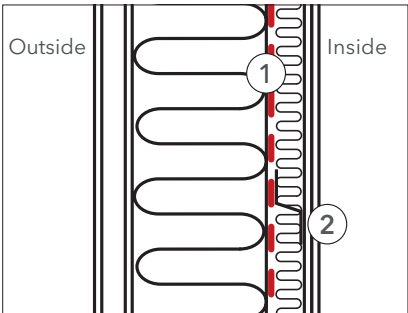
The construction phase: Sd = 1-5 m: At moderate humidity of 50 to 70% inside, HiFoil still has high resistance to vapour diffusion. The structure is protected from excessive penetration of moisture and potential damage to the building.

Evaporation period: Sd = 0.2-1 m:
The moisture that has penetrated the structure evaporates and causes a marked increase in relative humidity. At the same time, the diffusion resistance of HiFoil decreases, allowing the structure to dry out rapidly and safely.

Installation
DAFA HiFoil can be installed in both roof and wall structures, either horizontally or vertically, whichever is most effective. The vapour barrier must be positioned no further than 1/3 of the way inside the overall thermal insulation layer. This means that electrical and HVAC installations can be fitted without needing to perforate the vapour barrier. DAFA HiFoil should be installed with the graphics on the warm side, and the overlap between the sheets should be at least 100 mm and sealed with DAFA Hi-tack tape.



Longitudinal and traverse joins must have an overlap of at least 100 mm, and should be sealed with grey DAFA Hi-tack tape.



It is a good idea to position the vapour barrier inside the structure, so that electrical and HVAC installations do not penetrate the barrier. It should not however be more than 1/3 of the way inside the overall thermal insulation.