THERMOFLOC®
Insulation made of cellulose fibre

:: **hot paper** for energy-savers!

:: **the trend towards** intelligent **insulation!**

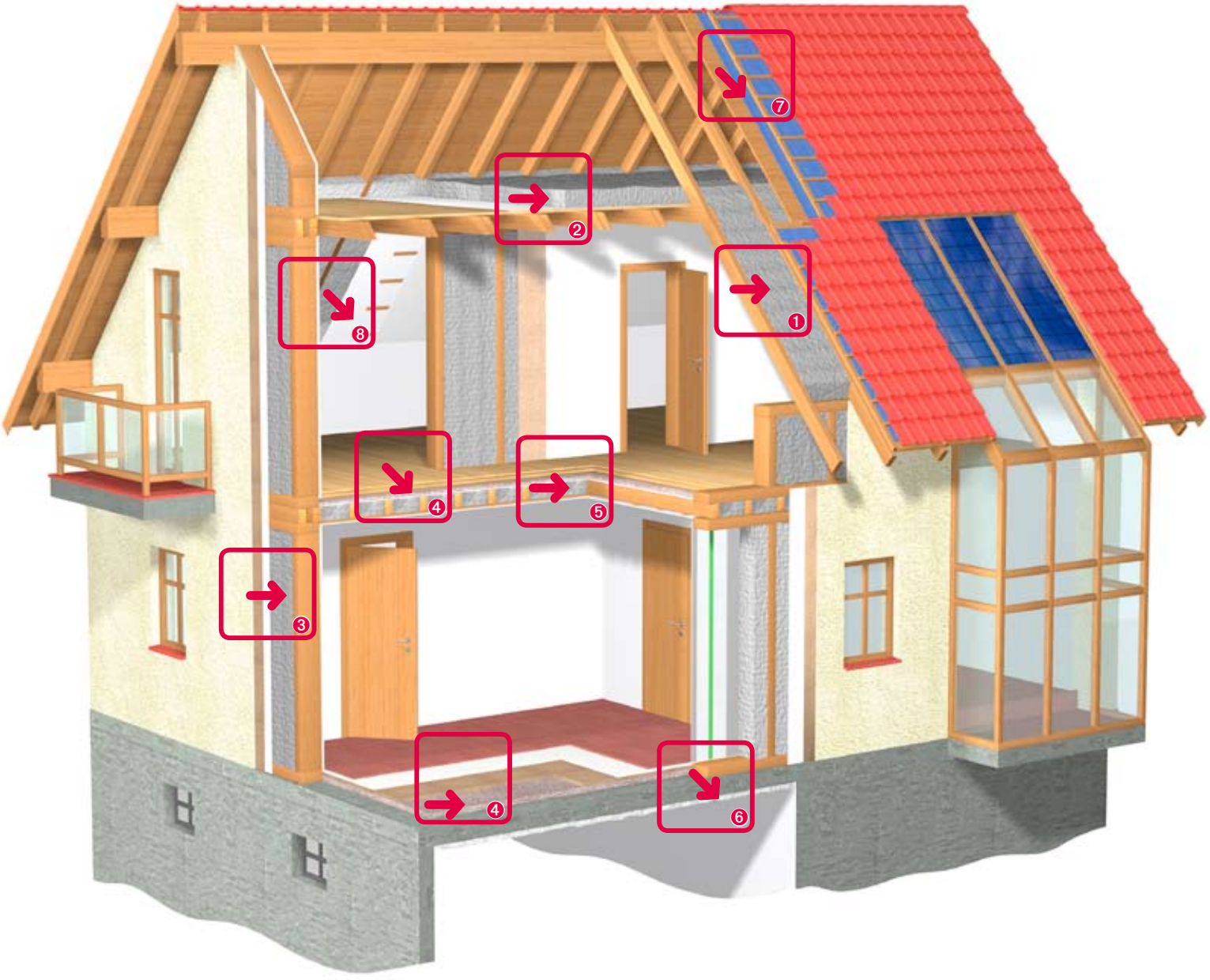
100% CELLULOSE

:: **Roof** insulation

:: **Wall** insulation

:: **Floor** insulation

The THERMOFLOC insulation system - that's pleasantly cool in summer & cosily warm in winter!



1) **THERMOFLOC Blow-in Insulation**
for insulating between the rafters in the roof

2) **THERMOFLOC Blow-in Insulation**
blown on as an open layer to insulate ceilings on the top stories of buildings

3) **THERMOFLOC Blow-in Insulation**
for insulating outer walls

4) **THERMOFLOC Insulation Pellets**
as a supporting floor substructure

5) **THERMOFLOC Floor Filling**
for insulating hollow spaces in intermediate ceilings

6) **THERMOFLOC Blow-in Insulation**
sprayed onto the underside of cellar ceilings

7) **THERMOFLOC Roof Sheathing Rolls**

8) **THERMOFLOC Vapour-Proof Lining**

Blow-in Insulation

THE MOST IMPORTANT AREAS OF APPLICATION

- the roof (steep roof, pent roof, hipped roof, flat roof)
- the outer wall and inner wall
- the ceiling on the top storey

Used in both new buildings and in the renovation of old buildings, THERMOFLOC Blow-in Insulation has been proving its worth for decades.

A SPECIAL AREA OF APPLICATION

- where the insulation is sprayed onto the inner walls of rooms (brickwork or concrete too), ceilings e.g. cellar ceilings) and roofs. For this purpose, a 30 to 60 mm layer is usually sprayed on.

The THERMOFLOC insulation system permanently cuts energy costs!

:: Roof insulation
:: Wall insulation
:: Floor insulation

THERMOFLOC Blow-in Insulation

THERMOFLOC Blow-in insulation made of cellulose fibres has many important product features which enable an efficient insulation for reducing energy costs, while including ecological considerations as well. One outstanding feature of the Blow-in Insulation, which is produced from old newspapers, is that it provides optimal insulation during both the cold and the warm seasons, thus markedly reducing energy costs for heating in the winter and for air conditioning in the summer.

Construction projects are regularly conducted in over 12 European countries using natural THERMOFLOC fibres, and the number of builder-owners who are convinced of the benefits of a THERMOFLOC insulation system is growing daily.

Insulation expert info: www.thermofloc.com

Blow-in Insulation

THERMOFLOC is installed by means of specially equipped blowing machines. The insulation is thereby pumped into hoses under air pressure, transported further into the hollow spaces of the building components, and there compressed in accordance with the material handling instructions, to produce an uninterrupted, complete insulation layer. The special handling technique Has considerable advantages both for the person installing the insulation and the builder-owner. The builder-owner benefits through having an uninterrupted insulation layer that is free of thermal bridges. Old roofs can be insulated later without removing the roof tiles.

Through the creation of an insulation layer that is open to diffusion, the builder-owner can enjoy an ecologically compatible, cosy atmosphere in his living area.

The THERMOFLOC insulation system

- 100% ecological & 100% cosy
:: Roof insulation
:: Wall insulation
:: Floor insulation

The processor can create a layer of between 20 and 500 mm from one single product, due to which there is no need to keep different insulation sizes in storage (as in the case of insulation panels and insulation felts). The compression ratio of the insulation thereby lies between 25 kg/m³ and 65 kg/m³, according to the area of application.

There is practically no waste, as only the exact amount of insulation that is necessary for a particular construction is blown into the building component. Furthermore, it simplifies building site logistics, as the insulation materials in the building no longer have to be transported by hand.

Thanks to the blow-in technique, all higher parts of the building (multi-storey buildings) can be filled with no problem.,This saves time and speeds up the execution of the project.

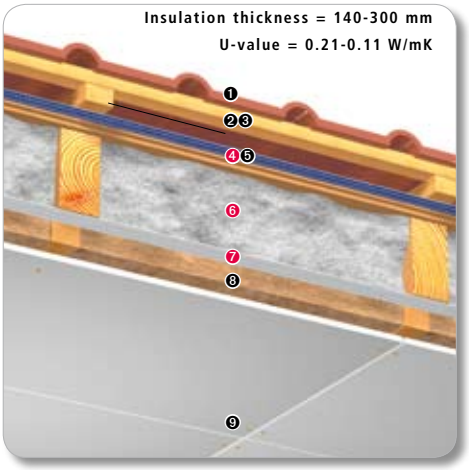
THERMOFLOC Blow-in Insulation	
Approval and monitoring	ETA-05/0186, CE number
Components	Newspapers, with borates as preservative agents
Heat co-efficient	λ_D 0.039 W/mK
Water vapour diffusion resistance	μ1
Water absorption	14.5/35.19 kg/m
Flow resistance	6.1 kPa s/m²
Fire classification in acc. with EN 13501-1	B-s2,d0
Resistance against mould	Class 0
Metallic corrosion	No potential for metallic corrosion
Harmlessness to health	Free of hazardous substances as defined by ETA-05/0186

...7

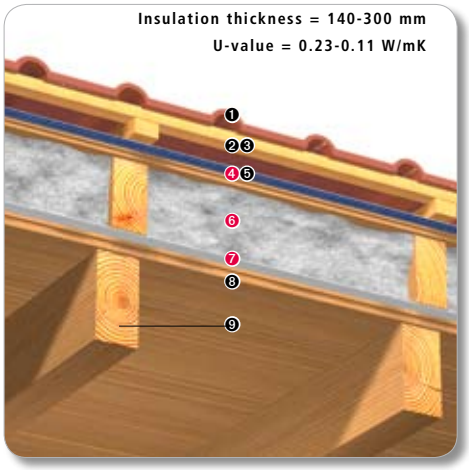
Blow-in Insulation

Blow-in Insulation

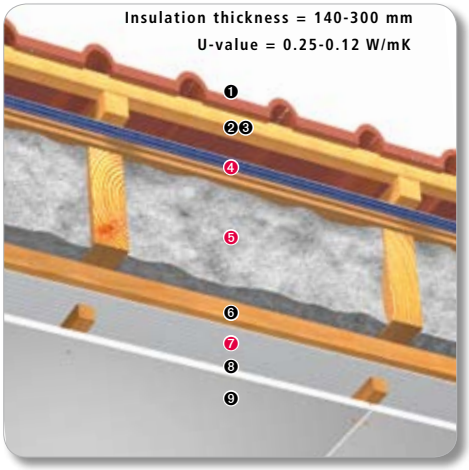
ROOF



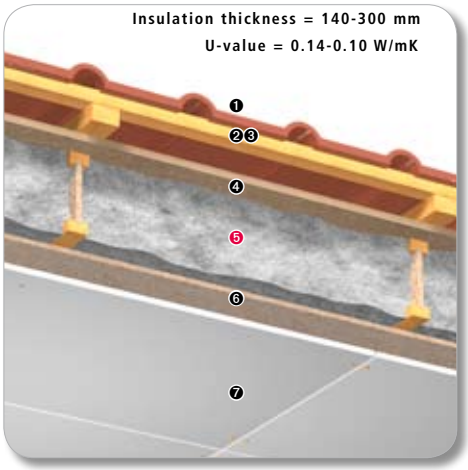
Roof system D1
❶ Roof covering
❷ Roof lathing
❸ Counter lathing
❹ THERMOFLOC Roof Sheathing Rolls
❺ Roof Sheathing
❻ Rafters/THERMOFLOC Blow-in Insulation
❼ THERMOFLOC Vapour-Proof Lining
❽ Lathing
❾ Plaster board



Roof system D5
❶ Roof covering
❷ Roof lathing
❸ Counter lathing
❹ THERMOFLOC Roof Sheathing Rolls
❺ Roof Sheathing
❻ Edgewise beam/THERMOFLOC Blow-in Insulation
❼ THERMOFLOC Vapour-Proof Lining
❽ Fireproof sheathing
❾ Rafters visible



Roof system D2
❶ Roof covering
❷ Roof lathing
❸ Counter lathing
❹ THERMOFLOC Roof Sheathing Rolls
❺ Rafters/THERMOFLOC Blow-in Insulation
❻ Lathing 2-6 cm
❼ THERMOFLOC Vapour-Proof Lining
❽ Lathing installation level
❾ Plaster board



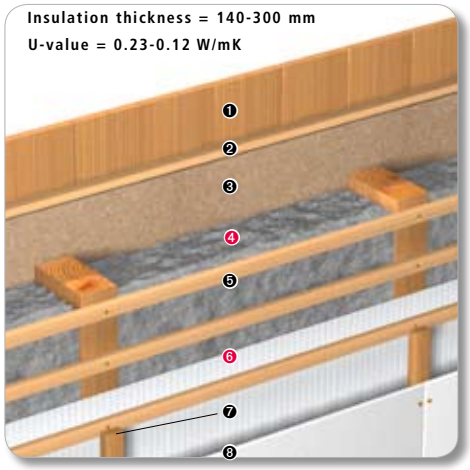
Roof system D7
❶ Roof covering
❷ Roof lathing 4/5
❸ Counter lathing 5/8
❹ Bitumen soft fibre board
❺ Double web T-beam/THERMOFLOC Blow-in Insulation
❻ Sperrholz/OSB
❼ Plaster board

The THERMOFLOC insulation system

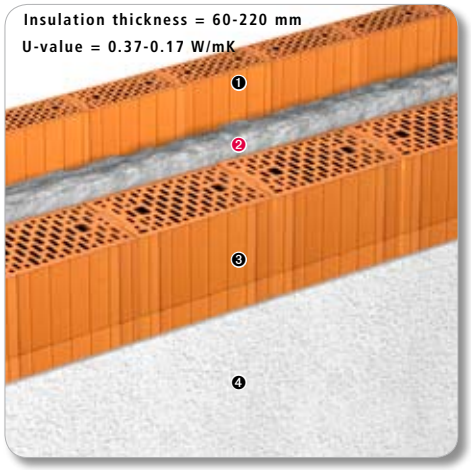
Point for point better insulated!

:: Roof insulation
:: Wall insulation
:: Floor insulation

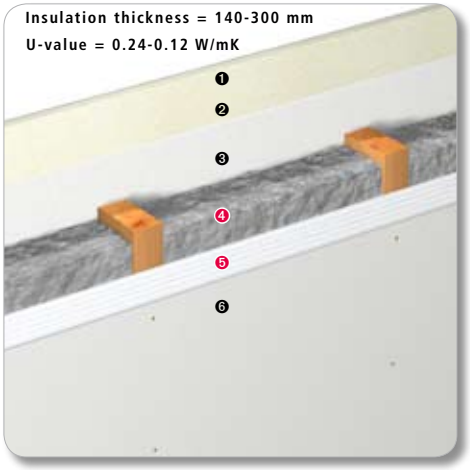
WALL



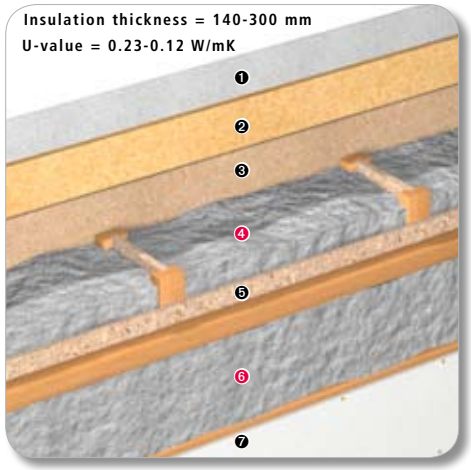
Wall system W1
❶ Wood cladding
❷ Lathing
❸ Wood fibre insulation board
❹ Crossbar/THERMOFLOC Blow-in Insulation
❺ Evenly spaced slats
❻ THERMOFLOC Vapour-Proof Lining
❼ Lathing (installation level)
❽ Plaster board



Wall system W13
❶ Vertically perforated bricks
❷ THERMOFLOC Blow-in Insulation
❸ Vertically perforated bricks
❹ Interior plaster



Wall system W15
❶ Gypsum fibre board
❷ Gypsum fibre board
❸ Gypsum fibre board
❹ Crossbar/THERMOFLOC Blow-in Insulation
❺ THERMOFLOC Dampfbremsvlies
❻ Gypsum fibre board



Wall system W10
❶ Gauged mortar
❷ Wood-wool lightweight board
❸ Soft fibre board
❹ Crossbar/THERMOFLOC Blow-in Insulation
❺ OSB plywood
❻ Lathing/THERMOFLOC Blow-in Insulation
❼ Gypsum fibre board

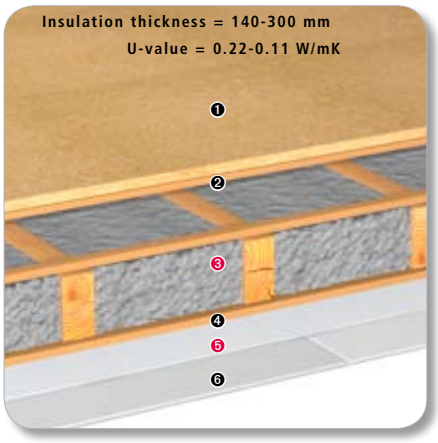
Floor Filling

Unlike the Blow-in Insulation, THERMOFLOC Floor Filling is processed by hand and used exclusively as a non-pressure-resistant insulation at the horizontal level (ceiling on the top storey, between joists in a wood-joist floor construction). In order to ensure better manual processing, the insulation material is less compressed in the packaging. THERMOFLOC Floor Filling is available in 12 kg sacks, with 24 sacks per pallet. The insulation material is simply poured on evenly to achieve the desired insulation thickness and then spread to form a level surface. Material consumption is approx. 35 kg/m³.

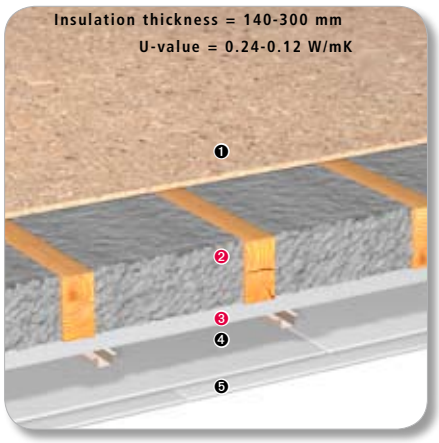
The technical data is identical to that of the Blow-in Insulation.

The THERMOFLOC insulation system permanently cuts energy costs!

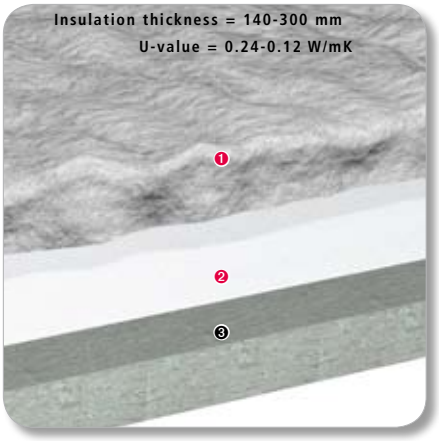
:: Wall insulation :: Floor insulation



Floor construction DB1 Tie-beam insulation
❶ Wood-wool board
❷ Subfloor/Rough floor
❸ Tie beams/THERMOFLOC Blow-in Insulation
❹ Evenly spaced slats
❺ THERMOFLOC Vapour-Proof Lining
❻ Gypsum wallboard



Floor construction DB3 Ceiling
❶ OSB/Plywood
❷ Beams/THERMOFLOC Blow-in Insulation
❸ THERMOFLOC Vapour-Proof Lining
❹ Spring rails
❺ 2-ply gypsum wallboards



Insulation of a ceiling on the top storey of a building
❶ Beams/THERMOFLOC Blow-in Insulation
❷ THERMOFLOC Vapour-Proof Lining
❸ Concrete ceiling

THERMOFLOC – THE FILM
You can request this film about production, handling and practical application from Peter Seppele Ges.m.b.H. in 6 languages, or download this information under www.thermofloc.com

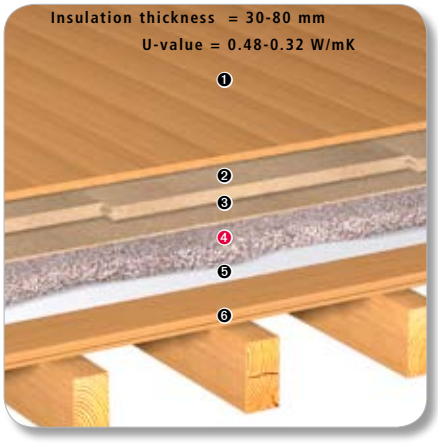
THERMOFLOC Floor Filling	
Approval and monitoring	ETA-05/0186, CE number
Components	Newspapers and borate as a preservative
Heat co-efficient	λ_D 0.039 W/mK
Water vapour diffusion resistance	μ 1
Water absorption	14.5/35.19 kg/m
Flow resistance	6.1 kPa s/m²
Fire classification in acc. with EN 13501-1	B-s2,d0
Resistance against mould	Class 0
Metallic corrosion	No potential for metallic corrosion
Harmlessness to health	Free of hazardous substances in acc. with ETA-05/0186

Insulation Pellets

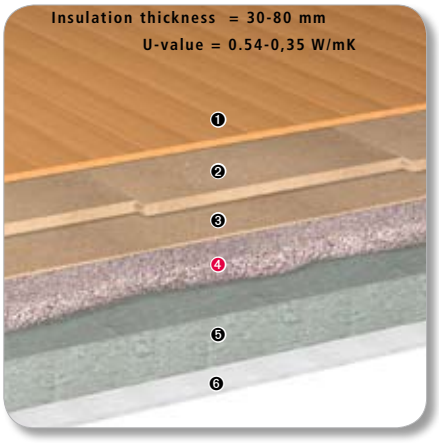
THERMOFLOC Insulation Pellets are granules made from cellulose fibres, which can be used for floor construction. The granules, which are 3-8 mm in size, are simply poured on to produce the desired installation height and afterwards spread to form a level surface. In this way, subfloor constructions with an installation height of 30-80 mm can be created. Due to the high piled weight (500 kg/m³), THERMOFLOC Insulation Pellets are particularly suited for the construction of supporting insulation layers, resulting in outstanding noise insulation. No matter whether in a concrete ceiling or a wooden beam ceiling – the insulation qualities of both types of construction can be markedly improved using THERMOFLOC Insulation Pellets.

The THERMOFLOC insulation system - one simply must insist on it !

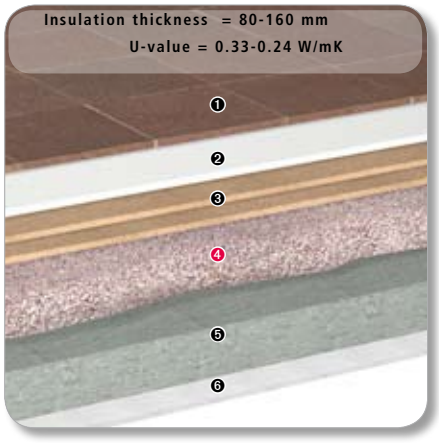
:: Floor insulation :: Ceiling insulation



Floor construction DB7 Ceiling
❶ Timber floor board
❷ Soft fibre N+F
❸ Soft fibre cover panel
❹ THERMOFLOC Insulation Pellets
❺ Waterproof layer
❻ Fireproof sheathing



Floor construction DB14 Ceiling
❶ Timber floor board
❷ Soft fibre N+F
❸ Soft fibre cover panel
❹ THERMOFLOC Insulation Pellets
❺ Concrete ceiling
❻ Ceiling plaster



Floor construction DB15 Ceiling
❶ Floor tiles
❷ Gypsum fibre board
❸ Soft wood fibre
❹ THERMOFLOC Insulation Pellets
❺ Concrete ceiling
❻ Ceiling plaster

THERMOFLOC Insulation Pellets	
Granule size	3-8 mm
Piled weight	500 kg/m³
Piled height	max. 80 mm per layer
Fire classification	B2
Thermal conductivity	λ_D 0.07
Pressure resistance	6.320 kg with 10 % compression
Water vapour diffusion	μ 1
Material consumption	40 l per m² (piled height 40 mm), 60 l per m² (piled height 60 mm)

Delivered in the form of 40 litre sacks/36 sacks per pallet/1.44m³

Vapour-Proof Lining

THERMOFLOC Vapour-Proof Lining is a vapour-proof and air-tight material which protects constructions against damp. It can be used for wall and roof constructions in the interior of buildings. Thanks to its additionally reinforced structure, it has a greater tear strength and can be excellently combined with THERMOFLOC Blow-in Insulation.

Free delivery with THERMOFLOC insulation materials

Item No. 5150 (Width 150 cm)

Item No. 5160 (Width 280 cm)

THERMOFLOC Vapour-Proof Lining	Technical Data
Raw material	reinforced polypropylene fibrous lining
Tear strength	100 N / 5 cm, additionally reinforced
Weight per m²	ca. 50-60 g/m²
Elongation at tear	> 25 %
SD value	10 m
Brand classification	B2; used on interior of roofs and walls
Roll width	150 cm or 280 cm
Roll length	50 m
m² per roll	75 m² or140 m²

The THERMOFLOC insulation system - Insulated with quality components !

:: Roof insulation :: Wall insulation






Area of application:

THERMOFLOC Vapour-Proof Lining is used on the interior of ventilated and non-ventilated roof constructions and in the walls of wooden crossbar structures. The use of THERMOFLOC Vapour-Proof Lining prevents weak points in the construction due to draughts, thus preventing the penetration of moisture into the thermal insulation.

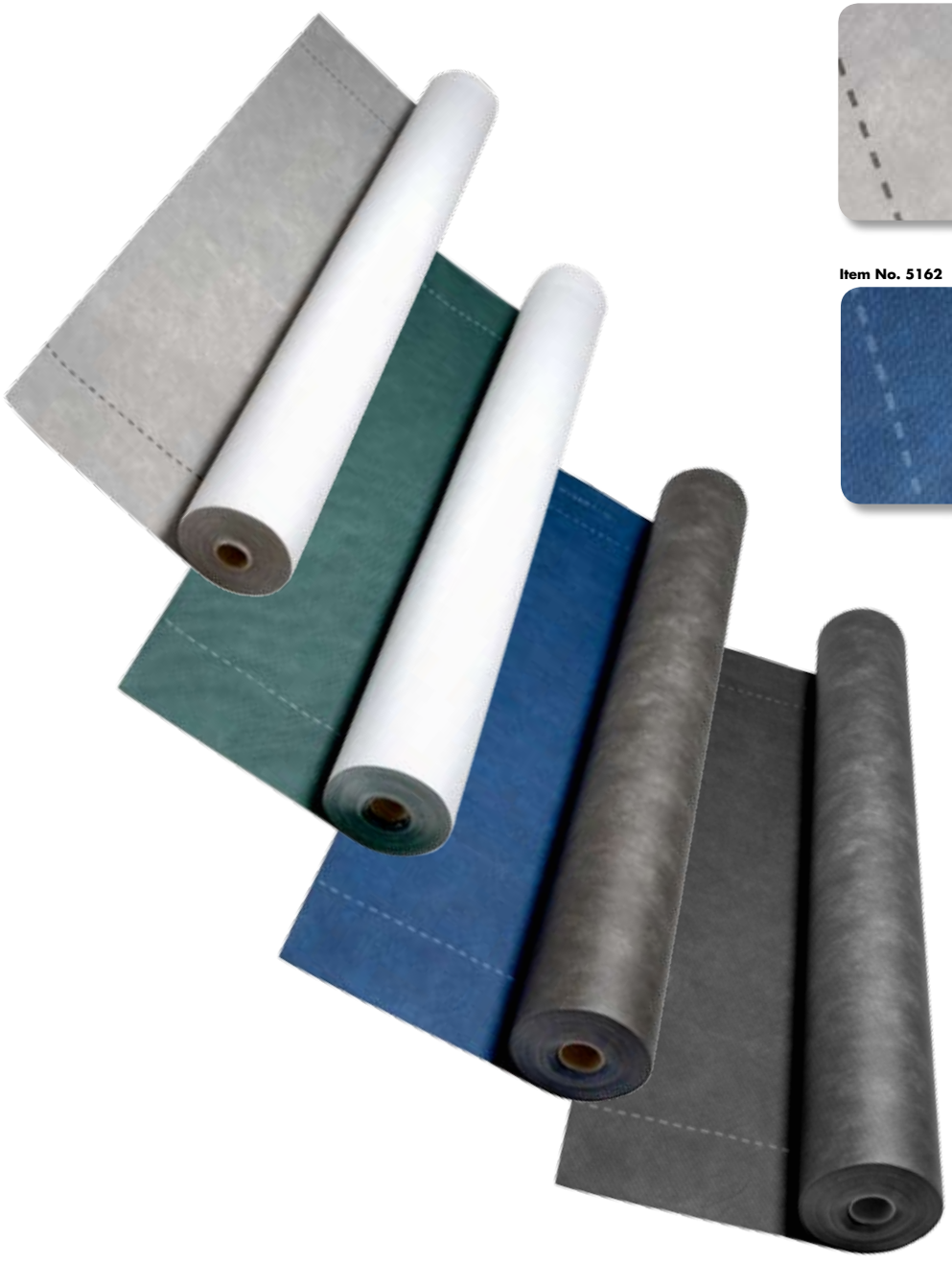
Installation instructions:

THERMOFLOC Vapour-Proof Lining is fastened to the sub-structures by means of tacking or gluing. The lining must be installed with the foil side facing inwards to the room, i.e. with the fibrous side facing the thermal insulation. A lengthwise installation of the Vapour-Proof Lining is to be recommended in the case of THERMOFLOC Blow-in Insulations. Should it be necessary to install it crosswise, the points where adhesive tape is used must be covered with continuous lathing in order to prevent THERMOFLOC Adhesive Tape from becoming detached due to the blow-in pressure. The areas to be stuck down must be free of grease, dust and silicone, and also completely dry.

Roof Sheathing Rolls

THERMOFLOC Roof Sheathing Rolls protect the construction from driving rain and thus prevent any penetration of moisture into the roof or wall structure. The rolls are UV stable, particularly tear-resistant and extremely open to diffusion.

Free delivery with THERMOFLOC insulation materials

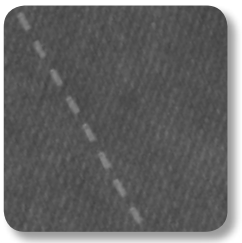


Item No. 5158

Item No. 5159

Item No. 5162

Item No. 5167



Roof Sheathing Rolls are installed overlapping on the outside of the roof, under the roof covering, to provide optimal protection against wind and rain.

The counter lathing is nailed or tacked onto the Roof Sheathing Rolls, and thus fixed in place at the same time. THERMOFLOC Roof Sheathing Rolls have a 10 year guarantee.

Coordinated system components provide optimal insulation.

The THERMOFLOC insulation system - Systematically thought out !

:: Roof insulation

Item No. 5158

Roof Sheathing Roll Grey	Technical Data
Raw material	3-ply polypropylene fibrous lining
Tear strength	215 N / 5 cm
Weight per m²	120 g/m²
Elongation at tear	> 60 %
SD value 0.02 m	0.02 m, extremely open to diffusion
Fire classification	B2
Outdoor exposure	max. 2 months
Nail tear strength	220 N
Roll width	150 cm
Roll length	50 m
30 rolls per pallet/2,250 m²	

Item No. 5159

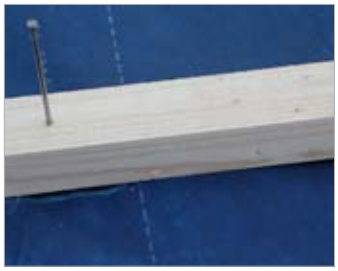
Roof Sheathing Roll Green	Technical Data
Raw material	3-ply polypropylene fibrous lining
Tear strength	250 N / 5 cm
Weight per m²	135 g/m²
Elongation at tear	> 60 %
SD value	0.02 m, extremely open to diffusion
Fire classification	B2
Outdoor exposure	max. 4 months
Nail tear strength	250 N
Roll width	150 cm
Roll length	50 m
24 rolls per pallet/1,800 m²	

Item No. 5162

Roof Sheathing Roll Blue	Technical Data
Raw material	3-ply polypropylene fibrous lining
Tear strength	380 N / 5 cm
Weight per m²	160 g/m²
Elongation at tear	> 60 %
SD value	0.02 m, extremely open to diffusion
Fire classification	B2
Outdoor exposure	max. 4 months
Nail tear strength	290 N
Roll width	150 cm
Roll length	50 m
24 rolls per pallet/1,800 m²	

Item No. 5167

Roof Sheathing Roll XL Black	Technical Data
Raw material	3-ply polypropylene fibrous lining
Tear strength	lengthwise 400 N/crosswise 310 N/ 5 cm
Weight per m²	260 g/m²
Elongation at tear	> lengthwise 40 % / crosswise 50 %
SD value	0.02 m extremely open to diffusion
Fire classification	B2
Outdoor exposure	max. 4 months
Nail tear strength	200 / 170 N
Roll width	150 cm
Roll length	50 m
24 rolls per pallet/1,800 m²	



Adhesive Tapes

Free delivery with THERMOFLOC insulation materials

Our adhesive tapes are specially adapted to our THERMOFLOC products and, together with the Vapour-Proof Lining and ROOF SHEATHING ROLLS, constitute a complete thermal insulation system. The adhesive tapes are used for the air-tight sealing of THERMOFLOC Vapour-Proof Lining and ROOF SHEATHING ROLLS. In addition, they can be used for sticking down joint connections onto derived timber product boards (e.g. OSB boards, plywood boards, etc.).

Item No. 5151

Green Adhesive Tape	Technical Data
Raw material	Polyethylene adhesive tape
Roll width	5 cm
Roll length	25 m
Carton	12 pcs.
Pallet	60 cartons
The adhesive coating consists of solvent and emollient-free acrylate.	

Reinforced green polyethylene adhesive tape with acrylate glue, for air-tight sealing of areas where THERMOFLOC Vapour-Proof Linings are perforated or overlapping.

Item No. 5156

White Adhesive Tape:	Technical Data
Raw material	Polyethylene adhesive tape
Roll width	20 cm
Roll length	20 m
Carton	1 pcs.
Pallet	112 cartons
The adhesive coating consists of solvent and emollient-free acrylate.	

White universal adhesive tape for sealing blow-in openings

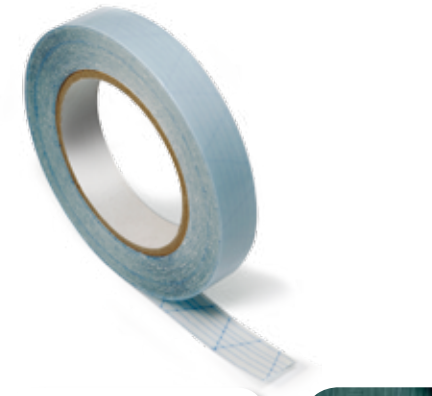
The THERMOFLOC insulation system - carefully planned precision sealing !

:: Roof insulation :: Wall insulation

Item No. 5157

Black Adhesive Tape	Technical Data
Raw material	Polyethylene adhesive tape
Roll width	14,6 cm
Roll length	25 m
Carton	4 pcs.
Pallet	80 cartons
The adhesive coating consists of solvent and emollient-free acrylate.	

Universal black adhesive tape on a polyethylene basis, with carrier material reinforcement layer and release paper with perforation slits, for sealing blow-in openings.



Item No. 5166

Double-sided blue adhesive tape	Technical Data
Raw material	Polyethylene adhesive tape
Roll width	2 cm
Roll length	20 m
Carton	30 pcs.
Pallet	80 cartons
The adhesive coating consists of solvent and emollient-free acrylate.	

Double-sided blue adhesive tape, used for sticking down rolls of fibrous lining and Roof Sheathing.

THERMOFLOC®
Insulation made of cellulose fibre

E

design:factory 2007

ThermoflocFeistritzDrau Ref_EN: 01/01/2007

Your THERMOFLOC Partner:

Peter Seppele Ges.m.b.H. | Bahnhofstraße 79 | A-9710 Feistritz/Drau | Tel: +43(0)4245-6201 | Fax: +43(0)4245-6336

office@thermofloc.com

Insulation expert information: **www.thermofloc.com**

THERMOFLOC®
Insulation made of cellulose fibre

:: **hot paper** for energy-savers!

:: **the trend towards** intelligent **insulation!**

100% CELLULOSE

:: **Roof** insulation

:: **Wall** insulation

:: **Floor** insulation