



THERMOFLOC cellulose insulation developed by Peter Seppele Gesellschaft m.b.H. more than 20 years ago has now developed into one of Europe's leading brands of sustainable insulation.

DESCRIPTION

THERMOFLOC is a loose cellulose insulation made from recycled newspaper combined with a mineral fire retardant that offers a sustainable and cost effective way to insulate your roof space or floors.

THERMOFLOC is efficient, sustainable and cost effective; three reasons why more and more professionals and end users throughout Europe are making THERMOFLOC their first choice of insulation. Suitable for old and new buildings, THERMOFLOC helps create a comfortable indoor environment all year round whilst at the same time helping reduce your heating costs considerably.

Because THERMOFLOC is installed as a loose fibre insulation, it fills all the voids in the insulated area. What's more, with an installed density of 40 kg/m³, THERMOFLOC also helps with sound reduction in the property.



INSTALLATION

THERMOFLOC Loose Fill is available in 12 kg bags. The insulation material is simply broken up until a light fluffy consistency is achieved and poured evenly to achieve the desired insulation thickness and then spread to form a level surface. Material consumption is approx. 40 kg/m³ or 4 kg/m² per 100mm of thickness.

THERMOFLOC Loose Fill is installed by hand and used to insulate horizontal spaces (lofts and between floor joists). In order to ensure better manual processing, the insulation material is less compressed when packed.

CERTIFICATION – CE MARK

THERMOFLOC insulation is made of unmixed newspaper with the addition of minerals for preservation and fire protection. The paper is shredded coarsely and then processed into fine, elastic cellulose fibres in a fibre mill. The finished product is packed into PE bags and palletised. Certified internal and external quality monitoring guarantees that the product meets the highest European quality requirements. This is also documented by a European Technical Approval ETA-05/186.

CERTIFICATION – NATUREPLUS®

THERMOFLOC is the first cellulose insulation product in Europe to be awarded the coveted Natureplus® mark of quality and sustainability. The Naturplus® independent expert panel rigorously evaluated the environmental, health and technical properties of THERMOFLOC blown-in insulation prior to certification. Only sustainable products with a high renewable raw material content can be certified since it has been shown that these materials have a positive effect on the indoor climate. The strict limits on harmful gas emissions mean using THERMOFLOC helps prevent the emission of harmful gases from insulation within the building fabric as well as minimising the consumption of fossil energy sources. What's more, these strict limits ensure that no adverse effects on health come from THERMOFLOC. The Natureplus® mark also backs up the durability and long service life of the insulation.

PERFORMANCE DATA

THERMOFLOC FLOOR FILLING	
Approval and monitoring	CE ETA-05/0186, Natureplus® 0107-1301-121
Thermal conductivity	D = 0.039 W/mK
Water vapour diffusion resistance factor	$\mu = 2.0$
Water absorption	30/60 kg/m ³ 14.5/44 kg/m ² (100 mm)
Flow resistance	6,1 kPa s/m ²
Fire classification as per EN13501-1	B-s2,d0
Resistance to mould Class	0
Metallic corrosion	No potential for metallic corrosion
Hazards to health	Free of hazardous substances as defined by ETA-05/0186

For more information, pricing or technical assistance call 01793 847 444

INSTALLATION TIPS

- Thermofloc is non-toxic and non-irritant to eyes and skin. However it does cause a small amount of dust when pouring. Therefore we recommend you wear a dust mask. Before you start laying Thermofloc.
- Make sure you have a sturdy pair of steps or ladder to get into your loft.
- Arrange for adequate lighting in the loft.
- When in the loft make sure you do not tread between the roof joists, otherwise you could not just damage yourself, but also your ceiling. Try to get a crawling board into the loft to span the joists.
- Make sure the loft is as clear as possible.
- If you have any pipes going through the ceiling to the room below, fill any gaps around the pipes with sealant.
- **Put guards around any fluepipe or recessed light fittings to keep Thermofloc approximately 150mm away from any hot component.** Either build a wooden box with an open top round each light or cut a length of 150mm PVC plastic pipe around each light.
- Installing fire-rated recessed light covers is a sensible and advisable precaution.
- Make sure you do not cover any ventilation grilles/holes at the eaves of the roof.
- If you have any electrical cables running across the joists try to leave the cables above the Thermofloc. High amperage rated cables (shower and cooker cables) must be kept away from any insulation material.
- If you have a cold water tank sitting on the joists, then do not insulate under the tank.
- Start laying the insulation in the far corners from the loft hatch, making sure you get to all the difficult corners.
- **The insulation is loose. Make sure you 'fluff up' the Thermofloc with your hand as much as possible as you take it out of the bag.** This enables air to be trapped in the insulation. Any compression of the insulation will reduce the efficiency.

- If possible lay the insulation over the joists as this reduces the heat loss further.
- Do not forget to insulate the loft hatch itself. Fill a polythene bag with Thermofloc and stick or staple it to the hatch.
- If you do not have a draught proofing seal where the hatch fixes to the ceiling, now is a good time to fix one. Approximately 2% of energy lost through a loft is via the loft hatch.
- If the insulation gets wet from a leaking roof etc. it should be removed. This is easy with Thermofloc as you can remove the wet area and even dry out the material to fill the gap.

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