

STEICO*flex*

Low carbon insulation



Insulate naturally
with wood fibre.

λ_D 0.036

Best thermal
performance value
of any wood fibre
insulation materials

STEICOflex

protects our
climate...

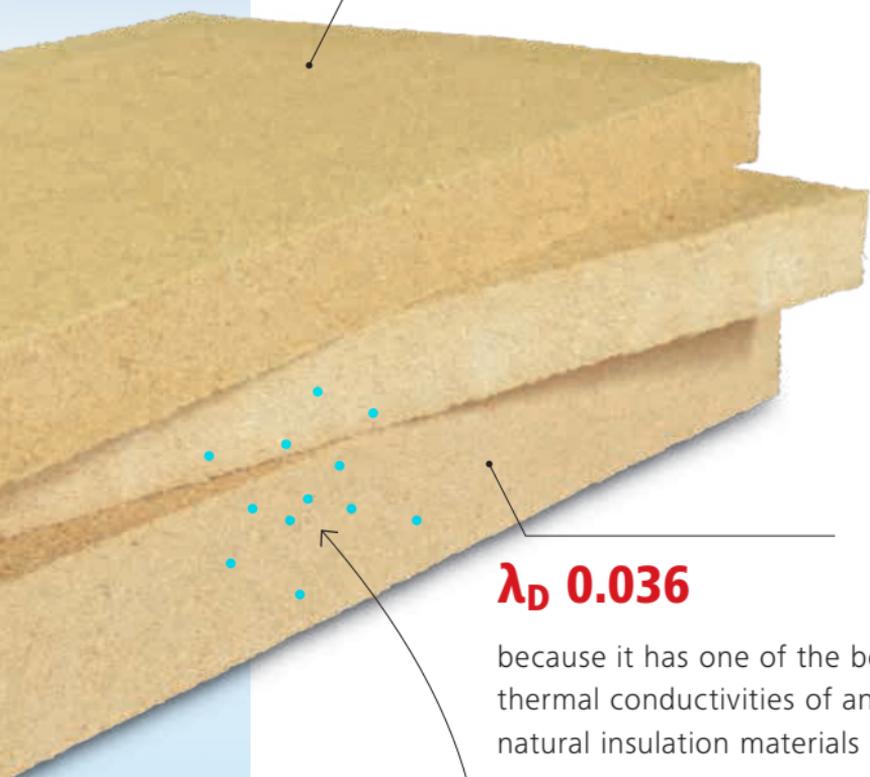


because it is made from wood which
comes from sustainably managed forests,
certified by the PEFC.





because its excellent thermal properties help to reduce CO₂ emissions

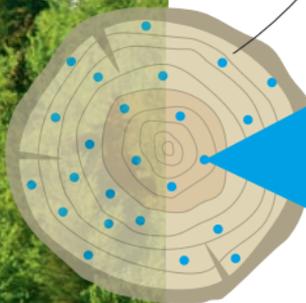


λ_D 0.036

because it has one of the best thermal conductivities of any natural insulation materials

85 kg CO₂/m³

because it stores carbon



CO₂

STEICO*flex*
is good for a
healthy home



For a healthy
home with ideal
room temperature



Because it protects the house
from overheating.



Because it is breathable and
protects against mould and
moisture damage.



Because it contributes to a
healthy indoor air quality.

Wood fibre is a major carbon store

Trees absorb CO₂ during photosynthesis and the carbon stays in the wood even when it is processed and transformed. 1 m³ of STEICOflex stores 85 kg carbon that is removed from the atmosphere.

Wood fibre insulation materials require minimal processing. They require less energy and generate

less emissions during their production than conventional insulation materials.

Due to the impacts of climate change we have to reduce our carbon emissions. Wood fibre insulation stores more CO₂ than the amount used for its production and it contributes to reduce carbon footprint.



CO₂



STEICOflex stores 85 kg CO₂ per m³.

λ_D 0.036

Best thermal performance value of any wood fibre insulation materials

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A good thermal insulation reduces heating costs and CO₂ emissions

With a thermal conductivity λ_D of 0.036 W/(m*K), STEICOflex offers the best thermal protection of all natural insulation materials. It reduces heating costs and CO₂ emissions.

High performance insulation is a good investment: it lowers heating bills and increases the value of the property.



Sustainable forestry

**STEICOflex is
made out of fresh
coniferous wood**



Sustainably managed forests store more CO₂ than natural forests.

The utilisation of wood from sustainably managed forests contributes more to climate protection than natural forests. This is because when the wood of a dead tree rots, the CO₂ stored within it is released into the atmosphere.

Over the long term, a natural forest achieves a biological equilibrium in which, on average, as much CO₂ is bound as is released. The CO₂ balance is in equilibrium. A positive CO₂ balance can only be achieved by harvesting trees, using their wood for material purposes and replanting young trees, which then actively bind CO₂ again. Critical of course is to only process wood from sustainable forestry with FSC or PEFC certification.

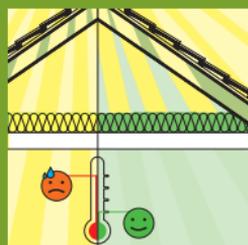
A healthy room climate

STEICOflex is made out of untreated coniferous wood. It entails no harming ingredients. The IBR is one of the most respected testing institutes in Germany. The IBR test seal certifies that STEICO products are harmless in terms of building biology. They contribute to healthy internal climate and a feeling of well-being in the home.



Excellent heat protection

Thanks to its high heat storage capacity, STEICOflex can buffer summer heat over a period of several hours. The majority of external heat fails to penetrate the building fabric and overheating of the living space is both delayed and reduced. During the evening and night time, when it is cooler, the stored heat can then escape outwards again. Wood fibre insulation materials ensure a better heat protection than synthetic insulation materials.



Wood fibre ensures a better heat protection than conventional insulation materials



Excellent sound insulation

Thank to its high density, *STEICOflex* ensures an excellent noise protection. Good sound insulation is noticed mostly in sleeping areas and in rooms located directly underneath the roof.



Moisture control

STEICOflex is vapour permeable and offers active moisture control: if moisture gets into the insulation layer, it will dry off to the outside. This intelligent moisture management keeps the construction permanently dry. The ideal protection against moisture in the construction and its consequences such as mould and structural damage.



High density
60 kg/m³

λ_D 0.036

Best thermal performance
value of any wood fibre
insulation materials



Quick and easy to
install



Feel the difference...

See for yourself! Order a sample of STEICOflex and see if it meets your expectations...

If you are looking for a distributor in your region, you can download our UK distribution map on our website:



For roof, wall and floor insulation

STEICOflex can be used in new build or for renovation in roofs, facades and floors. In the attic, the flex batts can be laid between the trusses. It can be used in the roof between the joists, in the facade between wall studs with an ETIC board like STEICODuo dry on top.

STEICOflex can be cut with any kind of saw. It is easy and quick to install and is ideal for self-builders who want to renovate an old property.

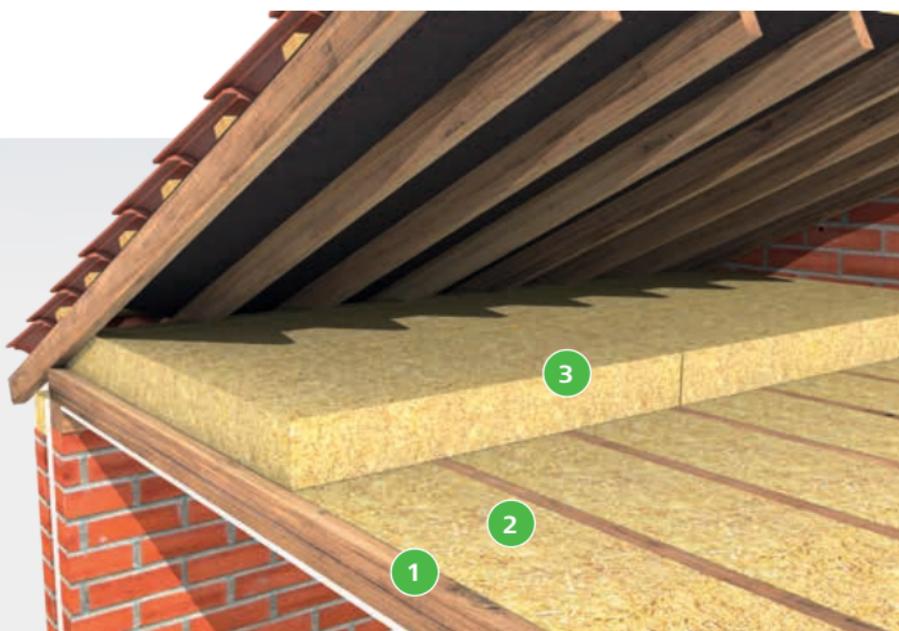


Video: how to insulate a roof from the inside with STEICOflex



Loft insulation... done naturally

A high proportion of UK loft spaces are either uninsulated or only contain 100mm of insulation. STEICOflex retains its shape and performance over time and is much easier and healthier to install as it does not irritate the skin like some more commonly used loft insulations.



- 1 Existing ceiling joist
- 2 100 mm STEICOflex between the joists
- 3 2nd layer of 140mm STEICOflex

U Value = 0,15 W/m²K

Adding 140mm of STEICOflex above 100mm of existing loft insulation can improve the thermal performance up to **160%**.



**Quick and easy to install,
ideal for DIY**



- Natural
- Healthy
- Sustainable





Natural insulation and construction systems for new builds and renovations – roof, ceiling, wall and floor

We spend approx. 80% of our lives in enclosed rooms. But are we always aware what we are surrounding ourselves with? STEICO has set itself the target of developing building products which consider the needs of both man and nature. Our products are therefore produced using sustainable natural materials. They help reduce energy use and add considerably to a natural healthy internal climate.

STEICO insulation and construction materials, carry a number of distinguished 'seals of approval' which is a sign of high quality, healthy and functional building products. The raw materials used in STEICO products are certified by FSC® (Forest Stewardship Council®) and PEFC (Programme for the Endorsement of Forest Certification), ensuring a traceable and fully sustainable usage of the raw materials. STEICO, the number 1 choice for your sustainable building solutions.



Your STEICO Partner :