



HEMPFLAX[®]
Building Solutions GmbH

Nature wins!

YOUR GUIDE TO OUR
HEMP INSULATION MATERIALS

www.thermo-hanf.de

THERMO HANF® IN CONSTRUCTION



INTERMEDIATE
RAFTERS

JOINTS & GAPS



CURTAIN WALL
FACINGS



EXTERIOR WALLS



CEILINGS



INTERIOR WALLS



KEY BENEFITS

Great heat protection in summer



Healthy living: free from pollutants



Active climate protection by saving CO₂



Moisture regulating



CLIMATE HERO: ABSORBS CO₂

100% SUSTAINABLE

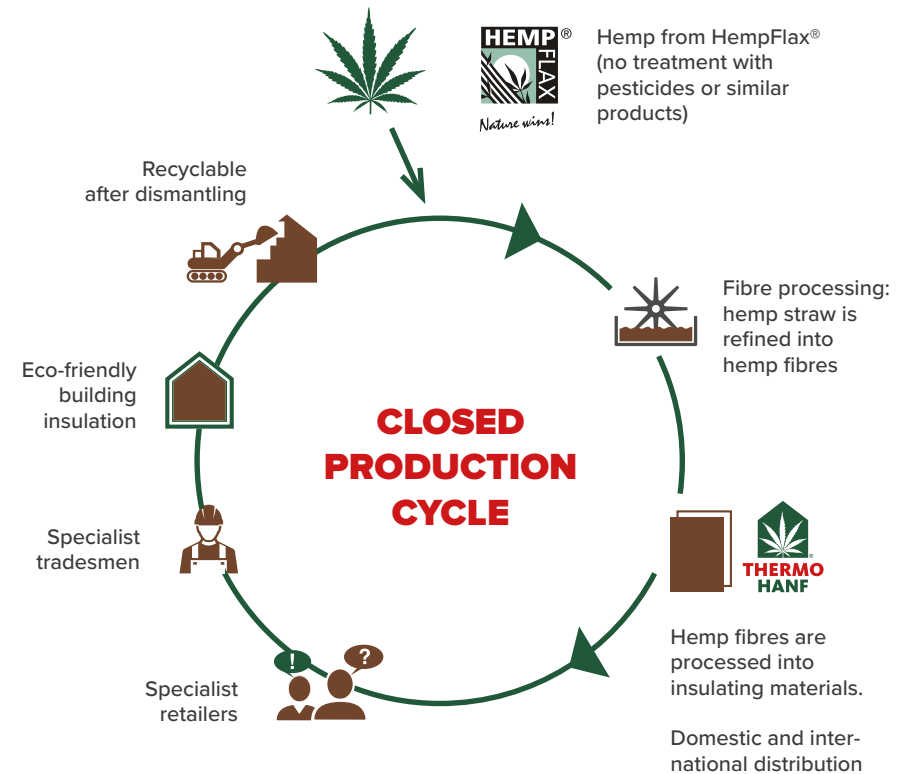
THE MIRACLE PLANT

Industrial hemp is a true wonder plant! As it grows, industrial hemp absorbs CO₂ from the atmosphere, thus helping to reduce this harmful greenhouse gas. Even more CO₂ is saved during hemp processing and production as the manufacturing process consumes little energy.

THERMO HANF® hemp insulation materials can also be recycled. A closed production cycle minimises waste and additionally protects the environment.

FACTS

- >> THERMO HANF® provides **high-performance insulation**
- >> The hemp plant **absorbs CO₂ as it grows**
- >> Hemp cultivation **requires no pesticides and little water**
- >> **CO₂ is saved during production**
- >> **THERMO HANF® insulation materials can be recycled** when no longer needed



WHAT'S IN IT?

THE DOG LOVES IT

Animals love to nap on our hemp mats because they are completely natural, store heat and are free from pollutants. Why's that? The hemp plant has no known pests, so there is **no need to use synthetic pesticides**, making the product pollutant-free from the very start. Harvesting and processing into fibres takes place without the use of chemical agents.

The only things we add to our hemp fibres are **soda as a fire retardant**, an ingredient that is also used in organic foods, and **polymer supporting fibres made of recycled PET** to increase the stability of the mats.

FACTS

- » **Fine industrial hemp fibres, grown in Germany**
- » **High-quality jute fibres from standardised food packaging**
- » **Soda salt for fire protection**
(permitted in organic foods)
- » **Polymer support fibres made of recycled PET**





DEPENDABLE SUPPLY

HEMP FROM OUR OWN FIELDS

Supply bottlenecks are becoming more and more frequent. Nearly every sector suffers regularly from severe supply problems because they source their raw materials from third-party producers at home and abroad.

With our insulation materials you're on the safe side. **We source our raw material from the fields operated by our parent company HempFlax®**, which are located in Germany, the Netherlands and Romania.

FACTS

- » **Secure raw material sourcing from our own HempFlax® fields in Germany**
- » **Short delivery routes**
- » **Price stability**

SUMMER COMFORT

NATURALLY COOL

THERMO HANF® COMBI JUTE keeps your home pleasantly cool even on the hottest summer days because its outstanding properties mean that an immense amount of energy would be needed to heat the insulation material and conduct the sun's heat into the house.

TIP

- >> THERMO HANF® COMBI JUTE **keeps attic rooms pleasantly cool** even in hot temperatures



WINTER WARMTH

WARM AND COSY

Cosy, warm rooms with THERMO HANF® COMBI JUTE. The low thermal conductivity makes our insulation the perfect solution for all areas of your house.

TIP

- >> **Recommended insulation thickness in the roof:** min. 200mm, depending on requirements or subsidies thicker layers can also be installed.



PEACE AT LAST

NOISE INSULATION

You can close your eyes, but you can't close your ears. Good, effective noise insulation gives you greater quality of life.

Just 80 mm of THERMO HANF® COMBI JUTE reduces sound impact by approx. 44 dB.

For comparison: 44 dB is the difference between a soft whisper and a Hoover, or a normal conversation and a circular saw.



SAFE AND SOUND

MOULD RESISTANT

THERMO HANF® COMBI JUTE is exceptionally resistant against mould growth.

Rating level 0 = top mark

No increased risk from hemp fibres

EASY TO WORK WITH

- >> **Low-dust processing**
- >> **No itchiness**
- >> **No protective clothing needed**



SUITABLE TOOLS

STABLE INSULATION MATERIALS REQUIRE SHARP BLADES



- ✓ **THERMO HANF® Insulation Saw**
Order this saw from your insulation dealer and get a free blade sharpener. Say goodbye to dull blades!



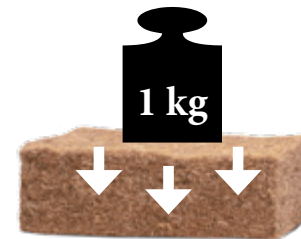
- ✓ **Bosch GFZ 16-35 AC**
with TF 350 serrated blades



- ✓ **Festool Cordless Insulating-Material Saw ISC 240**

A TOP PERFORMER

FLEXIBLE



The mats are **flexible** and adapt to the construction. Add an extra 10mm to the width for a snug fit.

ELASTIC



The insulation mats are **exceptionally pliable**.

TOUGH AND DURABLE



The mats are **extremely tear-resistant and stable**; they should only be cut with the recommended tools.

ABOUT US



HEMPFLAX[®]
Building Solutions GmbH

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PIONEERS OF GREEN CHANGE

THERMO HANF[®] insulation has been manufactured in Germany since the 1990s. The factory in Nördlingen, Bavaria, produces insulation mats, stuffing wool and needle felt made with industrial hemp fibres.

Hemp can significantly mitigate problems of environmental pollution and CO₂ emissions – which is something we're passionate about. That is why in 2020 we joined the **Dutch HempFlax**[®] **Group**, Europe's largest producer of industrial hemp.

This partnership enables us to source the hemp directly from the producer – our parent company. **Short distances, a shared cultivation philosophy and fair pricing are the advantages that you benefit from as our customer.**





EcologicalBuildingSystems.com

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For stockist information and full technical support for your project, please contact Ecological Building Systems or visit www.EcologicalBuildingSystems.com



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