

THERMO NEEDLE FELT

Biobased needle-felt roll & strip for impact sound decoupling

Version: March 2026 | Document code: TDS.TNF.EN.2026



Description

THERMO NEEDLE FELT is a thin hemp-fiber needle-felt supplied as rolls and strips for the acoustic decoupling of building elements, e.g., under floating floors and at junctions between partitions and adjacent components. The material consists of 100% hemp fibers, is pollutant-free, 100% ecological and highlights benefits such as sound insulation, thermal insulation effect and diffusion openness.

IDENTIFICATION	
Product name	THERMO NEEDLE FELT
Product type	Biobased needle-felt roll & strip for impact sound decoupling
Intended use	Decoupling under floating floors, between joist layers, and between partitions and adjacent building components
	Required under screed
Manufacturer	C-HempFlax Building Solutions GmbH
COMPOSITION & MATERIALS	
Constituents	100% hemp fiber
Form	Dense, flexible needle-punched hemp fiber felt
COMPLIANCE & CERTIFICATION	
European Technical Assessment (ETA)	Not available
Declaration of Performance (DoP)	Not applicable
CE marking	Not applicable

*This Technical Data Sheet reflects the technical status at the time of publication and is subject to change in future editions.
Installation must follow the manufacturer's installation guidance; national building regulations must be observed.
The manufacturer disclaims liability for printing errors and subsequent changes to technical data.*



DIMENSIONS & DELIVERY FORMS

Delivery form	Rolls and strips
Nominal thickness range	3 to 10 mm (<i>Thickness tolerance: -0.4 mm to +1.4 mm</i>)
Rolls	Width 1000 mm; Thicknesses 3 / 5 / 10 mm
Strips	Width 100 mm; Thicknesses 3 / 5 / 10 mm
Lengths	25 m (3 mm & 5 mm), 15 m (10 mm)
Dimensional tolerances	Length: $\pm 2\%$ Width: $\pm 1.5\%$
Custom formats	Widths: 0.50–3.00 m Lengths: on request

TECHNICAL PERFORMANCE

Areal weight (total)	450–1250 g/m ² ($\pm 10\%$)
Bulk density	110–165 kg/m ³ ($\pm 10\%$)

Performance values apply to the product as supplied; installation method and assembly build-up influence the achieved acoustic result.



Characteristics

- Dense, flexible felt
- Easy to cut and process using scissors, knife or common electric cutting tools
- Suitable for DIY / home improvement applications
- No nutrient base for rodents and insects
- Diffusion-open and excellent moisture behavior
- Pollutant-free and 100% ecological

Application Areas

- Under floating floor coverings (e.g., parquet, laminate, vinyl) where impact sound insulation is required
- Under screed constructions requiring impact sound insulation
- Decoupling between joist/floor assemblies and adjacent components
- Decoupling strips at junctions of partitions and neighboring building elements

Packaging, Storage & Logistics

- Store and install in dry conditions
- Do not use it in permanently damp / wet rooms
- Do not install between two closed foil layers; keep the construction as diffusion-open as possible
- Dispose of as compost / organic waste where locally permitted

REVISION HISTORY

Version	v1.0
Date	March 2026
Changes	