Deutsches Institut für Bautechnik

Public-law institution jointly founded by the federal states and the Federation

European Technical Assessment Body for construction products

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European Technical Assessment ETA-05/0037 of 27 March 2026

English translation prepared by DIBt - Original version in German language

General Part

Technical Assessment Body issuing the European Technical Assessment:	Deutsches Institut für Bautechnik
Trade name of the construction product	"THERMO HANF PREMIUM", "THERMO HANF PREMIUM PLUS" and "THERMO HANF COMBI JUTE"
Product family to which the construction product belongs	Insulating material made of hemp or hemp and jute fibres and binding fibres of PET- or PLA-basic
Manufacturer	C-HempFlax Building Solutions GmbH Industriestraße 2 86720 Nördlingen GERMANY
Manufacturing plant	HempFlax Building Solutions GmbH Industriestraße 2 86720 Nördlingen GERMANY
This European Technical Assessment contains	7 pages including 1 annex which form an integral part of this assessment
This European Technical Assessment is issued in accordance with Article 95(4) of Regulation (EU) No 2024/3110, on the basis of	EAD 040005-00-1201
This version replaces	ETA-05/0037 issued on 6 May 2025

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Specific Part

1 Technical description of the product

This European Technical Assessment applies to the insulation materials with the designations:

"THERMO HANF PREMIUM" and "THERMO HANF PREMIUM PLUS made of hemp fibres as well as "THERMO HANF COMBI JUTE" made of hemp and jute fibres.

Further trade names for the mentioned designations are specified in Annex A of the European Technical Assessment.

In the following only the designations "THERMO HANF PREMIUM", "THERMO HANF PREMIUM PLUS" and "THERMO HANF COMBI JUTE" are used to distinguish the insulation materials.

The insulation materials contain polymeric or biopolymeric binding fibres, which are thermally hardened during manufacture.

During the manufacturing process the products are provided with a fire retardant.

The insulating material in form of mats is made with the following dimensions:

Nominal thickness:	minimum 30 mm to 220 mm maximum
Nominal length:	800 mm to 2400 mm
Nominal widths:	300 mm to 1200 mm

The insulating material is not coated.

The European Technical Assessment has been issued for the products on the basis of agreed data/information, deposited with Deutsches Institut für Bautechnik, which identifies the product that has been assessed. The European Technical Assessment applies only to products corresponding to this agreed data/information.

2 Specification of the intended use in accordance with the applicable European Assessment Document (EAD)

The insulation materials not exposed to compression loads can be used as follows:

- cavity insulation of external and internal walls of timber frame constructions and similar structures
- internal insulation of external walls between supporting construction
- insulation between rafters and timber beams as well as in cavities of corresponding structures
- insulation on topmost storey ceilings which are not subjected to foot traffic, however, are accessible
- internal insulation of ceiling or roof, e. g. insulation beneath the loadbearing construction (e. g. rafters), suspended ceiling
- cavity insulation between flooring joist battens and similar substructures.

The performance according to section 3 only applies if the insulation materials are installed according to the manufacturer's installation instructions and if they are protected from precipitation, wetting or weathering in built-in state and during transport, storage and installation.

Concerning the application of the insulation materials also the respective national regulations shall be observed.

The design value of the thermal conductivity shall be laid down according to relevant national provisions.

3 Performance of the product and references to the methods used for its assessment

For sampling, conditioning and testing the provisions of the EAD No 040005-00-1201 "Factory-made thermal and/or acoustic insulation products made of vegetable or animal fibres" apply.

3.1 Safety in case of fire (BWR 2)

Essential characteristic	Performance
Reaction to fire test acc. to EN ISO 11925-2:2020	Class E acc. to EN 13501-1: 2018

3.2 Hygiene, health and the environment (BWR 3)

Essential characteristic	Performance
Resistance to the growth of mould test acc. to EAD "Factory-made thermal and/or acoustic insulation products made of vegetable or animal fibres", annex B	Evaluation level 0 acc. to EN ISO 846:1997

3.3 Energy economy and heat retention (BWR 6)

Essential characteristic	Performance
Thermal conductivity at a reference temperature of 10 °C test acc. to EN 12667:2001	Declared values for a moisture content of the insulation material at 23 °C and 50 % relative humidity: [1]
"THERMO HANF PREMIUM"	$\lambda_{D(23,50)}$ = 0.041 W/(m ·K)
"THERMO HANF PREMIUM PLUS"	$\lambda_{D(23,50)}$ = 0.043 W/(m ·K)
"THERMO HANF COMBI JUTE"	$\lambda_{D(23,50)}$ = 0.038 W/(m ·K)
Conversion of humidity test acc. to EN ISO 10456:2007+AC:2009 mass-related moisture content at 23 °C/50 % rel. humidity:	
"THERMO HANF PREMIUM"	$u_{23,50}$ = 0.07 kg/kg
"THERMO HANF PREMIUM PLUS"	$u_{23,50}$ = 0.08 kg/kg
"THERMO HANF COMBI JUTE"	$u_{23,50}$ = 0.08 kg/kg
mass-related moisture content at 23 °C/80 % rel. humidity:	
"THERMO HANF PREMIUM"	$u_{23,80}$ = 0.15 kg/kg
"THERMO HANF PREMIUM PLUS"	$u_{23,80}$ = 0.17 kg/kg
"THERMO HANF COMBI JUTE"	$u_{23,80}$ = 0.19 kg/kg
mass-related moisture conversion coefficient (dry to 23 °C/50 % rel. humidity):	
"THERMO HANF PREMIUM"	f_{u1} = 0.07
"THERMO HANF PREMIUM PLUS"	f_{u1} = 0.13
"THERMO HANF COMBI JUTE"	f_{u1} = 0.11

[1] The declared value is representative for at least 90 % of the production with a confidence level of 90 % and applies to the density range mentioned in section 3.3.

Essential characteristic	Performance
mass-related moisture conversion coefficient (23 °C/50 % rel. humidity to 23 °C/80 % rel. humidity):	
"THERMO HANF PREMIUM"	f_{u2} = 0.24
"THERMO HANF PREMIUM PLUS"	f_{u2} = 0.34
"THERMO HANF COMBI JUTE"	f_{u2} = 0.05
moisture conversion factor (dry to 23 °C/ 50 % rel. humidity):	
"THERMO HANF PREMIUM"	F_{m1} = 1.01
"THERMO HANF PREMIUM PLUS"	F_{m1} = 1.01
"THERMO HANF COMBI JUTE"	F_{m1} = 1.01
moisture conversion factor (23 °C/ 50 % rel. humidity to 23 °C/ 80 % rel. humidity):	
"THERMO HANF PREMIUM"	F_{m2} = 1.02
"THERMO HANF PREMIUM PLUS"	F_{m2} = 1.03
"THERMO HANF COMBI JUTE"	F_{m2} = 1.01
Water vapour diffusion resistance coefficient	μ = 1 to 2 [2]
Dimensional deviations:	
Length and widths: test acc. to EN ISO 29465:2022	length: ± 2 % width: ± 1.5 %
Thickness: test acc. to EN ISO 29466:2022	-4 mm / +10 mm or + 10 % [3] Relates to class T3 acc. to EN 13171:2012
Squareness: test acc. to EN 824:2013	$S_b \leq 5$ mm/m
Flatness: test acc. to EN ISO 29468:2022	$S_{max} \leq 6$ mm
Density: test acc. to EN ISO 29470:2020	
"THERMO HANF PREMIUM"	35 – 48 kg/m³
"THERMO HANF PREMIUM PLUS"	35 – 48 kg/m³
"THERMO HANF COMBI JUTE"	34 – 46 kg/m³
Dimensional stability under specified temperature and humidity: test acc. to EN 1604:2013 (48 h, 70 °C)	
"THERMO HANF PREMIUM PLUS"	DS(70,-)3 acc. EN 13171:2012
Deviation from length and width:	max. ± 3 %
Deviation from thickness:	max. ± 3 %
"THERMO HANF PREMIUM"	No performance assessed
"THERMO HANF COMBI JUTE"	No performance assessed
Tensile strength parallel to faces: test acc. to EN 1608:2013	≥ 30 kPa

[2] The most unfavorable value for the construction shall be applied each.
[3] Whichever gives the smallest numerical tolerance.

4 Assessment and verification of constancy of performance (AVCP) system applied, with reference to its legal base

In accordance with EAD 040005-00-1201, the applicable European legal act is: 1999/91/EC.
The system to be applied is: 3

5 Technical details necessary for the implementation of the AVCP system, as provided for in the applicable EAD

Technical details necessary for the implementation of the AVCP system are laid down in the control plan deposited with Deutsches Institut für Bautechnik.

Issued in Berlin on 27 March 2026 by Deutsches Institut für Bautechnik

Frank Iffländer
Referatsleiter

beglaubigt
Meyer

Deutsches Institut für Bautechnik DIBt

"THERMO HANF PREMIUM", "THERMO HANF PREMIUM PLUS" and "THERMO HANF COMBI JUTE"

ANNEX A

Further trade names for "THERMO HANF PREMIUM":

"THERMO CHANVRE PREMIUM", "THERMO HEMP PREMIUM", "THERMO HANF FLEX" and "stroba HANF PREMIUM"

Further trade names for "THERMO HANF PREMIUM PLUS":

"THERMO CHANVRE PREMIUM PLUS", "THERMO HEMP PREMIUM PLUS", "THERMO HANF FLEX PLUS", "stroba HANF PREMIUM PLUS", "FIBRE NATURELLE ISOLATION", "NATUAL FIBRE INSULATION" and "NATURAHANF FLEX PRO"

Further trade names for "THERMO HANF COMBI JUTE":

"THERMO CHANVRE COMBI JUTE", "THERMO HEMP COMBI JUTE", "stroba HANF COMBI JUTE", "Hanf Jute Dämmung" and "NATURAHANF FLEX"