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**European Technical Assessment Body
for construction products**



European Technical Assessment

**ETA-23/0125
of 27 July 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

"naturheld FLOW", "naturheld Holzfaser
Einblasdämmung", "WoodyCell+", "WoodyCell Plus",
"Schilliger Holzfaser-Einblasdämmung" and "Case
Calduroase LANA DE LEMN POMPABILA"

Product family
to which the construction product belongs

Thermal insulation products made of loose, free chipped
wood

Manufacturer

naturheld GmbH & Co.KG
Parksteiner Weg 20
92655 Grafenwöhr

Manufacturing plant

Naturheld GmbH
Werk 1
Parksteiner Weg 20
92655 Grafenwöhr
GERMANY

This European Technical Assessment
contains

6 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) 2024/3110, on the basis of

EAD 040138-01-1201

This version replaces

ETA-23/0125 issued on 8 November 2024

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Specific Part

1 Technical description of the product

This European Technical Assessment applies to the thermal insulation materials made of loose, free wood fibres with the designations:

"naturheld FLOW", "naturheld Holzfaser Einblasdämmung", "WoodyCell+", "WoodyCell Plus", "Schillinger Holzfaser-Einblasdämmung" and "Case Călduroase LÂNĂ DE LEMN POMPABILĂ"

The thermal insulation materials are made of wood fibers from coniferous wood (spruce and pine). During the manufacturing process, the wood fibers are provided with a fire retardant.

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

The thermal insulation materials serve for the production of insulation layers, not exposed to compression loads, by means of machine processing at the place of use. The insulation material is installed in dry conditions.

The thermal insulation material can be used in the following fields of application:

- Exposed insulation on horizontal or moderately pitched areas ($\leq 10^\circ$) and between binder or beams of roofing,
- Space-filling insulation in closed cavities of walls of timber frame constructions and similar structures.

The thermal insulation materials are application-specific processed in different densities.

The performances given in Section 3 are only valid if the thermal insulation products are installed according to the manufacture's installation instructions, used in compliance with the specifications and conditions given in Annex A and if they are protected from precipitation, wetting or weathering in built-in state and during transport, storage and installation.

As to the application of the thermal insulation materials, the respective national regulations shall in addition be observed.

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

The verifications and assessment methods on which this European Technical Assessment is based lead to the assumption of a working life of the thermal insulation products of at least 50 years. The indications given on the working life cannot be interpreted as a guarantee given by the producer, but are to be regarded only as a means for choosing the right products in relation to the expected economically reasonable working life of the works.

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

For sampling, conditioning and testing the provisions of the EAD 040138-01-1201 "In-situ formed loose fill thermal and/or acoustic insulation products made of vegetable 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 applies to insulation thicknesses ≥ 40 mm and density range $30 \text{ kg/m}^3 \leq \rho \leq 60 \text{ kg/m}^3$

3.2 Hygiene, health and the environment (BWR 3)

Essential characteristic	Performance
Resistance to the growth of mould test acc. to EAD "In-situ formed loose fill thermal and/or acoustic insulation products made of vegetable fibres", Annex B	Evaluation level 0 acc. to EN ISO 846:1997

3.3 Protection against noise (BWR 5)

Essential characteristic	Performance
Sound absorption	No performance assessed

3.4 Energy economy and heat retention (BWR 6)

Essential characteristic	Performance
Thermal conductivity at mean reference temperature of 10 °C test acc. to EN 12667:2001	Declared value for a moisture content of the insulation material at 23 °C and 50 % relative humidity: ¹ $\lambda_{D(23,50)} = 0.038 \text{ W/(m} \cdot \text{K)}$
Conversion of humidity acc. to EN ISO 10456:2007+AC:2009 mass-related moisture content at 23 °C/50 % rel. humidity: mass-related moisture content at 23 °C/80 % rel. humidity: mass-related moisture conversion coefficient (dry to 23 °C/50 % rel. humidity): mass-related moisture conversion coefficient (23 °C/50 % rel. humidity to 23 °C/80 % rel. humidity): moisture conversion factor (dry to 23 °C/50 % rel. humidity): moisture conversion factor (23 °C/50 % rel. humidity to 23 °C/ 80 % rel. humidity):	$u_{23,50} = 0.04 \text{ kg/kg}$ $u_{23,80} = 0.10 \text{ kg/kg}$ $f_{u1} = 0.07$ $f_{u2} = 0.16$ $F_{m1} = 1.00$ $F_{m2} = 1.01$
Water vapour diffusion resistance coefficient test acc. to EN 12086:2013, climate condition C	$\mu = 1 \text{ to } 4^2$
Corrosion developing capacity	No performance assessed

¹ The declared value is representative for at least 90 % of the production with a confidence level of 90 %.

² The most unfavourable value for the construction work shall be applied each.

Essential characteristic	Performance
Water absorption test acc. to EN ISO 29767:2019, method A	< 1.0 kg/m ²
Settlement Settling under impact excitation Settling under vibration in wall cavity Settling under defined climatic conditions	≤ 9 % at a minimum bulk density of 30 kg/m ³ and a maximum thickness of 330 mm SC 0 acc. to EN 15101-1:2013 (≤ 1 %) at a minimum bulk density of 33 kg/m ³ and a maximum thickness of 240 mm No performance assessed
Critical moisture content	No performance assessed
Airflow resistance ³ test acc. to EN ISO 9053-1:2018, method A	density range $\rho < 38 \text{ kg/m}^3$: ≥ 2 kPa·s/m ² density range 38 kg/m ³ ≤ ρ ≤ 60 kg/m ³ : ≥ 5 kPa·s/m ²
Hygroscopic sorption properties	No performance assessed

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

In accordance with EAD 040138-01-1201 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 July 2026 by Deutsches Institut für Bautechnik

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Head of Section

beglaubigt:
Roj

³ Also relevant with regard to BWR 5.

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Annex A

The performances of the thermal insulation products given in Section 3 are valid if the following will be considered concerning installation and use:

- Densities at built-in stage:

Area of application	Density [kg/m ³]
Cavity insulation in walls and similar structures	33 - 60
Cavity insulation in floors, exposed insulation on horizontal and moderately pitched areas ($\leq 10^\circ$)	30 - 33

- The density is determined by calculation as a quotient from the mass of the material brought in and the full volume.
- The thermal insulation layer has a constant installation thickness taking account of the nominal thickness. For that purpose suitable height marks are arranged by the executing company in sufficient distances before the processing. The executing company check the installation thickness and the density.
- When calculating the thermal resistance of the construction elements, the nominal thickness of the thermal insulation layer is applied as follows:

Processing of the insulation material	Nominal thickness
Cavity insulation in walls and similar structures	clear span of the filled cavity
Cavity insulation in floors, exposed insulation on horizontal, and moderately pitched areas ($\leq 10^\circ$)	installation thickness of the insulation material minus 9 %

- The requirements concerning ventilation openings and the ventilation section above the thermal insulation layer are considered.
- In case of installation on pitched or arched areas slipping of the thermal insulation product is prevented by suitable measures.
- In case of use as space-filling thermal insulation in closed cavities it is made sure by appropriate measures (e. g. control drillings) that the cavity is completely filled with the thermal insulation product.
- The thermal insulation products are only processed by companies stated in a list of the manufacturer which have adequate experience in installing the material. Concerning this matter the manufacturer has trained these companies.
- The executing company issue a certificate which contains the following information with reference to this European Technical Assessment for each application place:
 - Thermal insulation made of loose, free chiped wood
 - trade names
 - executing company
 - building project and building component
 - date of installation
 - installation thickness