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European Technical Assessment Body
for construction products



European Technical Assessment

ETA-23/0465
of 10 November 2025

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General Part

Technical Assessment Body issuing the
European Technical Assessment:

Deutsches Institut für Bautechnik

Trade name of the construction product

"STEICOtimmerfloc"

Product family
to which the construction product belongs

Thermal insulation product made of loose, free wood and
cellulose fibres

Manufacturer

STEICO SE
Otto-Lilienthal-Ring 30
85622 Feldkirchen
DEUTSCHLAND

Manufacturing plant

STEICO Sp.zo.o.
Ul. Przemysłowa 2
PL 64-700 Czarnków
Polen

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 Regulation (EU)
No 305/2011, on the basis of

040138-01-1201

This version replaces

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Specific Part

1 Technical description of the product

This European Technical Assessment applies to the thermal insulation material made of loose, free wood and cellulose fibres with the designation:

"STEICOtimmerfloc"

The thermal insulation material consists of cellulose fibers from wood (softwood) and paper. During the manufacturing process, the fibers are provided with a fire retardant.

The European Technical Assessment has been issued for the product 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 serves 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 can be used for the following intended uses:

- Exposed insulation on horizontal or moderately pitched areas ($\leq 10^\circ$) and between beams of roof ceilings,
- Insulation in closed cavities between rafters or timber beams as well as in cavities of corresponding structures,
- Space-filling insulation in closed cavities of walls of timber frame constructions and similar structures

The thermal insulation is processed application-specifically with different densities.

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

As to the application of the thermal insulation material, 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 product 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 No 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 layer thickness ≥ 40 mm and density from 32 kg/m ³ to 60 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 $\lambda_{D(23,50)} = 0.039 \text{ W}/(\text{m} \cdot \text{K})^*$
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):	$u_{23,50} = 0.05 \text{ kg/kg}$ $u_{23,80} = 0.12 \text{ kg/kg}$ $f_{u1} = 0.19$ $f_{u2} = 0.18$ $F_{m1} = 1.01$ $F_{m2} = 1.01$
Water vapour diffusion resistance coefficient test acc. to EN 12086:2013, climate condition C	$\mu = 2 \text{ to } 3^2$
Water absorption	No performance assessed
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
Settlement	
Settling under impact excitation	≤ 13 % at a minimum density of 32 kg/m ³ and a maximum thickness of 330 mm
Settling under vibration in wall cavity	SC 0 acc. to EN 15101-1:2013 (≤1 %) at a minimum density of 42 kg/m ³ and a maximum thickness of 240 mm
Settling under defined climatic conditions	≤ 10 % at (40±2) °C / (90±5) r.h. at a minimum density of 32 kg/m ³
Critical moisture content	No performance assessed
Airflow resistance	8 kPa·s/m ² at density of ≥ 45 kg/m ³ 5 kPa·s/m ² at density of < 45 kg/m ³ and ≥ 35 kg/m ³ 4 kPa·s/m ² at density of < 35 kg/m ³ and ≥ 32 kg/m ³
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 No. 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 10 November 2025 by Deutschen Institut für Bautechnik

Frank Iffländer
Referatsleiter

beglaubigt:
Meyer

"STEICOtimberfloc"

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	42 - 60
Cavity insulation in pitched roofs, cavity insulation in floors in case of subsequent blowing into closed cavities	42 - 60
Cavity insulation in floors, exposed insulation on horizontal and moderately pitched areas ($\leq 10^\circ$)	32 - 41

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	clear span of the filled cavity
Cavity insulation in pitched roofs, cavity insulation in floors in case of subsequent blowing into closed cavities	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 13 %

- 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 material made of loose, free wood and cellulose fibres
 - trade name
 - executing company
 - building project and building component
 - date of installation
 - processing procedure
 - installation thickness