



Approval body for construction products and types of construction

Bautechnisches Prüfamt

An institution established by the Federal and Laender Governments



European Technical Assessment

ETA-21/0385 of 2 July 2021

English translation prepared by DIBt - Original version in German language

General Part

Technical Assessment Body issuing the European Technical Assessment:

Trade name of the construction product

Product family to which the construction product belongs

Manufacturer

Manufacturing plant

This European Technical Assessment contains

This European Technical Assessment is issued in accordance with Regulation (EU) No 305/2011, on the basis of Deutsches Institut für Bautechnik

InsulSafe Einblaswolle

Thermal insulation made of loose mineral wool

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6 pages including 1 annex which form an integral part of this assessment

EAD 040729-00-1201

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Specific Part

1 Technical description of the product

The European Technical Assessment applies to the thermal insulation product made of loose, synthetic mineral wool with the designation "InsulSafe Einblaswolle".

The thermal insulation material is manufactured without binding agents and receives an additional dust binding agent during the manufacturing process.

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 material serves for the production of insulation layers, not exposed to compression loads, by means of machine processing at the place of use. The machine processing is carried out in dry conditions.

The thermal insulation product "InsulSafe Einblaswolle" can be used for the following intended uses:

- Exposed insulation on horizontal or moderately pitched areas (≤ 10°) (e. g. on the ceiling or between beams)
- Space-filling insulation in closed cavities of external and interior walls of timber frame constructions and similar structures
- Insulation in closed cavities between rafters and timber beams as well as in cavities of corresponding structures

The performances given in Section 3 are only valid if the thermal insulation product is 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.

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



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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. 040729-00-1201 "Thermal insulation made of loose mineral wool".

3.1 Safety in case of fire (BWR 2)

Essential characteristic	Performance
Reaction to fire Organic content test acc. to EN 13820:2003	Class A1 In accordance with EC decision 96/603/EC (as changed) ≤ 1,0 M%
Propensity to undergo continous smouldering test acc. to EN 16733:2016	Test passed – The product show no propensity to undergo continous smouldering

3.2 Energieeinsparung und Wärmeschutz (BWR 6)

Essential characteristic	Performance
Thermal conductivity at mean reference temperature of 10 °C test acc. to EN 12667:2001 in accordance with EN 14064-1:2010	Declared value for a moisture content of the insulation material at 23 °C and 50 % relative humidity: ¹ density range: 21 kg/m ³ to < 30 kg/m ³ : $\lambda_{D(23,50)} = 0,037$ W/(m · K) density range: 30 kg/m ³ to ≤ 40 kg/m ³ : $\lambda_{D(23,50)} = 0,034$ W/(m · K)
Conversion of humidity acc. to EN ISO 10456:2007+AC:2009 moisture conversion factor (23 °C/50 % rel. humidity	F _m = 1,00
to 23 °C/ 80 % rel. humidity):	
Short term water absorption	No performance assessed
Long term water absorption	No performance assessed
Bulk density at	
In case of free placing (exposed insulation)	21 kg/m ³ to < 30 kg/m ³
In case of use in closed cavities (space-filling)	30 kg/m³ to ≤ 40 kg/m³
Water repellency	No performance assessed
Water vapour diffusion resistance coefficient	μ = 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 in accordance with annex A.

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Essential characteristic	Performance
Settlement	
Settling under impact excitation in the case of free placing (e. g. on the ceiling or between beams)	≤ 15 % at a minimum bulk density of 21 kg/m³ and a maximum thickness of 330 mm
Settling under vibration in wall cavity and between beams	SC 0 acc. to EN 15101-1:2013 (≤ 1 %) at a minimum bulk density of 30 kg/m ³ and a-maximum thickness of 240 mm
Settling under defined climatic conditions	No performance assessed
Airflow resistance	No performance assessed

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

In accordance with the European Assessment Document EAD No. 040729-00-1201, the applicable European legal act is: 1999/91/EC.

The system to be applied is: 3

In addition, with regard to reaction to fire (including propensity to undergo continuous smouldering) the applicable European legal act is: 1999/91/EC (in accordance with the decision 96/603/EC).

The system to be applied is: 4

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 2 July 2021 by Deutschen Institut für Bautechnik

Frank Iffländer Head of Section *beglaubigt:* Meyer



InsulSafe Einblaswolle

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]
Exposed insulation on horizontal or moderately pitched areas ($\leq 10^{\circ}$) (e. g. on the ceiling or between beams)	21 – < 30
Space-filling insulation in closed cavities of external and interior walls of timber frame constructions and similar structures	30 – ≤ 40
Insulation in closed cavities between rafters and timber beams as well as in cavities of corresponding structures	30 – ≤ 40

- 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 be 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
Exposed insulation on horizontal or moderately pitched areas ($\leq 10^{\circ}$) (e. g. on the ceiling or between beams)	installation thickness of the insulation material minus 15 %
Space-filling insulation in closed cavities of external and interior walls of timber frame constructions and similar structures	clear span of the filled cavity
Insulation in closed cavities between rafters and timber beams as well as in cavities of corresponding structures	clear span of the filled cavity

- 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 product made of loose mineral wool
 - trade names
 - executing company
 - building project and building component
 - date of installation
 - installation thickness