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-25/0960 of 10 October 2025

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	"ISOTEC-Klimaplatte" and "ISOTEC-Klimaplatte basic"
Product family to which the construction product belongs	Thermal insulation board made of mineral material
Manufacturer	ISOTEC GmbH Köttgen-Allee 1 51465 Bergisch Gladbach GERMANY
Manufacturing plant	Werk 4
This European Technical Assessment contains	6 pages 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	040012-00-1201

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Specific part

1 Technical description of the product

This European Technical Assessment applies to the factory-made thermal insulation boards made of calcium silicate and cellulose fibres with the designations "ISOTEC-Klimaplatte" and "ISOTEC-Klimaplatte basic", hereafter referred to as thermal insulation boards.

The thermal insulation boards are high-pressure steam cured (autoclaved).

The surface of the thermal insulation boards can be one-side structured with slots up to approx. 1 mm.

The thermal insulation boards are made of calcium silicate and cellulose fibres, are not coated or laminated.

The thermal insulation boards are made with the following dimensions:

Nominal thickness: 20 mm to 120 mm

Nominal length: 625 mm to 1257 mm

Nominal widths: 500 mm to 1000 mm

Soffit boards (nominal dimensions 500 mm x 250 mm x 15 mm) and wall-ceiling connection boards with thickness decreasing in the width direction (nominal dimensions 1250 mm x 500 mm x 30/8 mm) sawn out of the above mentioned thermal insulation boards are also covered by the European Technical Assessment.

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 boards can be used for the following intended uses:

- Internal insulation of ceilings (underside) or roofs
- Internal insulation of floors or bedplates (on the top) below floor screed without protection against noise requirements
- Internal insulation of walls

The performance according to section 3 only applies if the thermal insulation boards are installed according to the manufacture'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 thermal insulation boards, also the respective national regulations shall be observed.

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

When calculating the thermal resistance, the nominal thickness of the insulation materials shall be applied.

Where the thermal insulation boards are fixed by using adhesives and/or anchors, only such adhesions or anchors shall be used, which are suitable for this purpose. The assessment of these fixings is not subject of this European Technical Assessment.

The verifications and assessment methods on which this European Technical Assessment is based lead to the assumption of a working life of the thermal insulating boards 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 040012-00-1201 "Thermal insulation board made of mineral material" apply.

3.1 Safety in case of fire (BWR 2)

Essential characteristic	Performance
Reaction to fire: Test acc. to EN ISO 1182:2020 and EN ISO 1716:2018	Class A1 accordance to EN 13501-1:2018[1]

3.2 Hygiene, health and the environment (BWR 3)

Essential characteristic	Performance
Content and/or release of dangerous substances:	The construction product does not contain or release dangerous substances according to EOTA TR 034 (version October 2014).
Water vapour diffusion resistance coefficient: Test acc. to EN 12086:2013, climate condition A	μ = 3

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 insulating boards at 23 °C/50 % relative humidity [2]
"ISOTEC-Klimaplatte"	$\lambda_{D23/50}$ = 0.059 W/(m ·K)
"ISOTEC-Klimaplatte basic"	$\lambda_{D23/50}$ = 0.075 W/(m ·K)
Conversion of humidity acc. to EN ISO 10456:2007 + AC:2009	
mass-related moisture content at 23 °C/50 % rel. humidity	
"ISOTEC-Klimaplatte"	$u_{23,50}$ = 0.014 kg/kg
"ISOTEC-Klimaplatte basic"	$u_{23,50}$ = 0.013 kg/kg
mass-related moisture content at 23 °C/80 % rel. humidity	
"ISOTEC-Klimaplatte"	$u_{23,80}$ = 0.021 kg/kg
"ISOTEC-Klimaplatte basic"	$u_{23,80}$ = 0.018 kg/kg
mass-related moisture conversion coefficient: (dry to 23 °C/50 % rel. humidity)	
"ISOTEC-Klimaplatte"	f_{u1} = 0
"ISOTEC-Klimaplatte basic"	f_{u1} = 1.41

[1] The reaction to fire of class A1 according to EN 13501-1 is only proved if the thermal insulation boards are not supplementary provided with paints, coatings or the like.

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

Essential characteristic	Performance
mass-related moisture conversion coefficient: (23 °C/50 % to 23 °C/80 % rel. humidity)	
"ISOTEC-Klimaplatte"	f_{u2} = 2.11
"ISOTEC-Klimaplatte basic"	f_{u2} = 1.53
Moisture conversion factor (dry to 23 °C/50 % rel. humidity)	
"ISOTEC-Klimaplatte"	F_{m1} = 1.00
"ISOTEC-Klimaplatte basic"	F_{m1} = 1.02
Moisture conversion factor (23 °C/50 % to 23 °C/80 % rel. humidity)	
"ISOTEC-Klimaplatte"	F_{m2} = 1.01
"ISOTEC-Klimaplatte basic"	F_{m2} = 1.01
Dimensional deviations (individual values):	maximum deviation:
Length and width: Test acc. to EN ISO 29465:2022	± 2 mm Class L(2) and W(2) acc. to EN 13163:2012+A2:2016
Thickness: Test acc. to EN ISO 29466:2022 (with a load of 250 Pa)	± 2 mm
Squareness in direction of length and width: in direction of thickness: Test acc. to EN 824:2013	S_b ≤ 4 mm/m S_d ≤ 2 mm
Flatness in direction of length and width: Test acc. to EN ISO 29468:2022	S_{max} ≤ 2 mm
Water absorption	No performance assessed.
Density: Test acc. to EN ISO 29470:2020 (Conditioning: 105 °C to constant mass)	Density range (each individual value):
"ISOTEC-Klimaplatte"	180 kg/m³ to 187 kg/m³
"ISOTEC-Klimaplatte basic"	235 kg/m³ to 253 kg/m³
Bending strength	No performance assessed.
Compressive strength: Test acc. to EN ISO 29469:2022	Mean value: Individual values may fall below these values up to 10 %.
"ISOTEC-Klimaplatte"	1000 kPa
"ISOTEC-Klimaplatte basic"	1500 kPa
Dimensional stability at specified temperature: Test acc. to EN 1604:2013 Conditioning: 48 h, at (70 ± 2) °C	Relative changes in length, width and thickness: max ± 0.5 %

Essential characteristic	Performance
Dimensional stability at specified temperature and humidity: Test acc. to EN 1604:2013 Conditioning: 48 h, at (23 ± 2) °C and (90 ± 5) % relative humidity	Relative changes in length, width and thickness: max ± 0.5 %
Tensile strength perpendicular to faces	No performance assessed.
Point load	No performance assessed.
Porosity	No performance assessed.

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

In accordance with European Assessment Document EAD 040012-00-1201, the applicable European legal act is: 1999/91/EC.

The system to be applied is: System 3

In addition, with regard to reaction to fire, the system to be applied is: System 1

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 10 October 2025 by Deutsches Institut für Bautechnik

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