



Approval body for construction products and types of construction

Bautechnisches Prüfamt

An institution established by the Federal and Laender Governments



European Technical Assessment

ETA-21/0538 of 11 August 2021

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	"AS Antischimmel/Innendämmplatte Casiplus C+"
Product family to which the construction product belongs	Thermal insulation board made of mineral material
Manufacturer	CASIPLUS GmbH Morellstraße 33 86159 Augsburg DEUTSCHLAND
Manufacturing plant	Werk 2
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	EAD 040012-01-1201

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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 designation "AS Antischimmel/Innen-dämmplatte Casiplus C+", 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 100 mm

Nominal length: 625 mm; 1250 mm

Nominal widths: 500 mm; 1000 mm

The "AS Laibungsplatte C+" (nominal dimensions 500 mm x 250 mm x 18 mm) and the "AS Keilplatte C+" with thickness decreasing in the width direction (nominal dimensions 625 mm x 330 mm x 26/2 mm) 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 insulation 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.



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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 040012-01-1201 "Thermal insulation board made of mineral material".

3.1 Safety in case of fire (BWR 2)

Essential characteristic	Performance
Reaction to fire:	Class A1 acc. to EN 13501-1:2010 ¹
Test acc. to EN ISO 1182:2010 and	
EN ISO 1716:2010	

3.2 Hygiene, health and the environment (BWR 3)

Essential characteristic	Performance
Content and/or release of dangerous substances:	The product does not contain or release dangerous substances according to EOTA TR034 (version April 2014).
Water vapour diffusion resistance coefficient:	μ = 3
Test acc. to EN 12086:2013, climatic condition set A	

3.3 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 boards at 23 °C and 50 % relative humidity:
	$\lambda_{D(23,50)} = 0.075 \text{ W/(m \cdot K)} *$
Conversion of humidity acc. to EN ISO 10456:2010	
Mass-related moisture content at 23 °C/ 50 % rel. humidity:	<i>u</i> _{23,50} = 0.013 kg/kg
Mass-related moisture content at 23 °C/ 80 % rel. humidity:	u _{23,80} = 0.018 kg/kg
Mass-related moisture conversion coefficient: (dry to 23 °C/ 50 % rel. humidity):	<i>f</i> _{u1} = 1.41

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Essential characteristic	Performance
Mass-related moisture conversion coefficient: (23 °C/ 50 % rel. humidity to 23 °C/ 80 % rel. humidity):	f _{u2} = 1.53
Moisture conversion factor (dry to 23 °C/ 50 % rel. humidity):	<i>F</i> _{m1} = 1.02
Moisture conversion factor (23 °C/ 50 % rel. humidity to 23 °C/ 80 % rel. humidity):	<i>F</i> _{m2} = 1.01
Dimensional deviations (individual values):	maximum deviation:
Length and width: Test acc. EN 822:2013	± 2 mm class L(2) and W(2) acc. to EN 13163:2013
Thickness: Test acc. EN 823:2013 (with a load of 250 Pa)	± 2 mm
Squareness in direction of length and width: in direction of thickness: Test acc. EN 824:2013	S _b ≤ 4 mm/m S _d ≤ 2 mm
Flatness in direction of length and width: Test acc. EN 825:2013	S _{max} ≤ 2 mm
Water absorbtion:	No performance assessed.
Density (each individual value):	Density range:
Test acc. to EN 1602:2013	235 kg/m³ - 253 kg/m³
Bending strength:	No performance assessed.
Compressive strength:	Mean value (individual values may fall below these values up to 10%):
Test acc. to EN 826:2013	1500 kPa
Dimensional stability at 70° C:	Relative changes in length, width and thickness:
Test acc. to EN 1604:2013	≤ 0.5%
Conditioning: 48 h, at (70 ± 2) °C	
Dimensional stability at 23° C and 90% relative humidity:	Relative changes in length, width and thickness:
Test acc. to EN 1604:2013	≤ 0.5%
Conditioning: 48 h, at (23 ± 2) $^\circ\text{C}$ and (90 ± 5) % relative humidity	
Tensile strength perpendicular to faces:	No performance assessed.
Point load:	No performance assessed.

* 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 section 3.3.



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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 040012-01-1201 the applicable European legal act is: Decision 1999/91/EC of the European Commission, amended by Decision 2001/596/EC of the European Commission.

The following system shall be applied: 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.

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