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European Technical Assessment Body
for construction products



European Technical Assessment

ETA-25/0390
of 24 April 2025

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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

einZA Schimmelschutz Systemplatte
einZA Schimmelschutz Laibungsplatte
einZA Schimmelschutz Keilplatte

Thermal insulation board made of mineral material

einZA Farben GmbH & Co KG
Junkersstraße 13
30179 Hannover
GERMANY

Calsitherm Silikatbaustoffe GmbH
Hermann-Löns-Straße 170
33104 Paderborn

6 pages which form an integral part of this assessment

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 designation "einZA Schimmelschutz Systemplatte", 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 and they 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 and 1250 mm

Nominal widths: 500 mm and 1000 mm

The products "einZA Schimmelschutz Laibungsplatte" and "einZA Schimmelschutz Keilplatte" sawn out of the above mentioned thermal insulation boards are also covered by the European Technical Assessment.

Nominal dimensions of "einZA Schimmelschutz Laibungsplatte" 500 mm x 250 mm x 18 mm

Nominal dimensions of "einZA Schimmelschutz Keilplatte" 625 mm x 250 mm x 26/2 mm

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 thermal insulation boards 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.

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".

3.1 Safety in case of fire (BWR 2)

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

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 Test acc. to EN 12086:2013, climatic condition set A	$\mu = 3$

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: $\lambda_{D(23,50)} = 0.059 \text{ W/(m} \cdot \text{K)}^2$
Conversion of humidity acc. to EN ISO 10456:2007/AC:2009	
Mass-related moisture content at 23 °C/ 50 % rel. humidity	$u_{23,50} = 0.014 \text{ kg/kg}$
Mass-related moisture content at 23 °C/ 80 % rel. humidity	$u_{23,80} = 0.021 \text{ kg/kg}$
Mass-related moisture conversion coefficient (dry to 23 °C/ 50 % rel. humidity)	$f_{u1} = 0$
Mass-related moisture conversion coefficient (23 °C/ 50 % rel. humidity to 23 °C/ 80 % rel. humidity)	$f_{u2} = 2.11$
Moisture conversion factor (dry to 23 °C/ 50 % rel. humidity)	$F_{m1} = 1.00$
Moisture conversion factor (23 °C/ 50 % rel. humidity to 23 °C/ 80 % rel. humidity)	$F_{m2} = 1.01$

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
Dimensional deviations (individual values)	maximum deviation:
Length and width Test acc. to EN 822:2013	± 2 mm class L(2) and W(2) acc. to EN 13163:2013
Thickness Test acc. to EN 823:2013 (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	$S_b \leq 4$ mm/m $S_d \leq 2$ mm
Flatness in direction of length and width Test acc. to EN 825:2013	$S_{\max} \leq 2$ mm
Water absorbtion	No performance assessed.
Density (each individual value) Test acc. to EN 1602:2013	Density range: 180 kg/m ³ - 187 kg/m ³
Bending strength	No performance assessed.
Compressive strength Test acc. to EN 826:2013	Mean value (individual values may fall below these values up to 10%): 1000 kPa
Dimensional stability at 70° C Test acc. to EN 1604:2013 Conditioning: 48 h, at (70 ± 2) °C	Relative changes in length, width and thickness (maximum): $\leq 0.5\%$
Dimensional stability at 23° C and 90% relative humidity Test acc. to EN 1604:2013 Conditioning: 48 h storage, at (23 ± 2) °C and (90 ± 5) % relative humidity	Relative changes in length, width and thickness (maximum): $\leq 0.5\%$
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 the European Assessment Document EAD 040012-00-1201 the applicable European legal act is: Decision 1999/91/EC of the European Commission

The system to be applied is: 3

In addition, with regard to reaction to fire, the system to be applied is: 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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Frank Iffländer
Head of Section

beglaubigt:
Getzlaff