

Approval body for construction products
and types of construction

Bautechnisches Prüfamt

An institution established by the Federal and
Laender Governments



European Technical Assessment

ETA-20/0637
of 7 January 2026

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

"bluefiber wool 15, white", "bluefiber wool 20, white",
"bluefiber wool 30, white", "bluefiber wool 40, white",
"bluefiber wool 15, black", "bluefiber wool 20, black",
"bluefiber wool 30, black" and "bluefiber wool 40, black"

Product family
to which the construction product belongs

Acoustic mats

Manufacturer

Sandler AG
Lamitzmühle 1
95126 Schwarzenbach/Saale
DEUTSCHLAND

Manufacturing plant

Sandler AG
Lamitzmühle 1
95126 Schwarzenbach/Saale
DEUTSCHLAND

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 040288-00-1201

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Specific part

1 Technical description of the product

This European Technical Assessment applies to the factory-made non-woven fabrics made of polyester fibres with the designations listed below, hereinafter referred to as acoustic mats.

"bluefiber wool 15, white"

"bluefiber wool 20, white"

"bluefiber wool 30, white"

"bluefiber wool 40, white"

"bluefiber wool 15, black"

"bluefiber wool 20, black"

"bluefiber wool 30, black"

"bluefiber wool 40, black"

The acoustic mats are made of dyed polyester fibers (white/black) that are thermally bonded, not containing recycled material or flame retardants or chemical binders. Non-woven fabric remnants of the same composition that arise during the manufacturing process are reintroduced into production to a small extent (maximum 5%).

The acoustic mats are manufactured in the following dimensions as rolls and boards:

Nominal thicknesses: 15 mm to 40 mm (rolls and boards)

Rolls:

Nominal length: 10000 mm to 60000 mm

Nominal width: 400 mm to 2500 mm

Boards:

Nominal length: 1000 mm to 2500 mm

Nominal width: 600 mm to 2500 mm

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 acoustic mats are intended for use in buildings as sound insulation in acoustic ceilings, acoustic walls and partition walls.

The performance according to section 3 only applies if the acoustic mats are installed according to the manufacturer's installation instructions and if they are protected from wetting, weathering, heavy moisture transport, condensation and wind or compression loads in built-in state and during transport, storage and installation.

As to the application of the acoustic mats, the respective national regulations shall additionally be observed.

The verifications and assessment methods on which this European Technical Assessment is based lead to the assumption of a working life of the acoustic mats of at least 50 years. The indications given on the working life cannot be interpreted as a guarantee given by the manufacturer, 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 040288-00-1201 "Factory-made thermal and acoustic insulations made of polyester fibres" apply.

3.1 Mechanical resistance and stability (BWR 1)

Essential characteristic	Performance
Corrosion developing capacity on metal constructions	No performance assessed.

3.2 Safety in case of fire (BWR 2)

Essential characteristic	Performance
Reaction to fire Test acc. to EN ISO 11925-2:2020 and EN 13823:2020+A1:2022 "bluefiber wool 15, white" "bluefiber wool 20, white" "bluefiber wool 30, white" "bluefiber wool 40, white" "bluefiber wool 15, black" "bluefiber wool 20, black" "bluefiber wool 30, black" "bluefiber wool 40, black"	Class B-s1, d0 acc. to EN 13501-1:2018 * Class B-s2, d0 acc. to EN 13501-1:2018 *
* The classification applies to the use of the material (with or without butt joints) under the following conditions: - arranged at a distance ≥ 80 mm to the same or other flatly adjacent building materials, - mechanically fastened to substrates made of metal with a melting point of ≥ 500 °C (Class A1 or A2-s1, d0 in accordance with EN 13501-1) with a minimum density of 2025 kg/m ³ and a minimum thickness of 1.0 mm, - mechanically fastened to massiv solid mineral substrates or non-combustible building boards (Class A1 or A2-s1, d0 in accordance with EN 13501-1) with a minimum density of 525 kg/m ³ and a minimum thickness of 12.5 mm	

3.3 Hygiene, health and the environment (BWR 3)

Essential characteristic	Performance
Water absorption - short term, by partial immersion	No performance assessed.
Water vapour permeability	No performance assessed.
Airflow resistance Test acc. to EN ISO 9053-1:2018	Length related airflow resistance $r \geq 8$ kPa·s/m ²

3.4 Protection against noise (BWR 5)

Essential characteristic	Performance
Sound absorption	No performance assessed.

3.5 Energy economy and heat retention (BWR 6)

Essential characteristic	Performance
Density Test acc. to EN ISO 29470:2020	17 kg/m ³ to 26 kg/m ³
Thermal conductivity	No performance assessed.
Dimensional stability under specified temperature and humidity conditions Test acc. to EN 1604:2013 Conditioning: 48 h, at (23 ± 2) °C and (90 ± 5) % relative humidity	Relative changes in length and width: max. ± 0,9 % Relative changes in thickness: max. ± 12,0 %
Tensile strength parallel to faces Test acc. to EN ISO 29766:2022	
"bluefiber wool 15, white"	lengthwise:
"bluefiber wool 20, white"	> 25 kPa
"bluefiber wool 30, white"	crosswise:
"bluefiber wool 40, white"	> 150 kPa
"bluefiber wool 15, black"	lengthwise:
"bluefiber wool 20, black"	> 25 kPa
"bluefiber wool 30, black"	crosswise:
"bluefiber wool 40, black"	> 100 kPa

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 040288-00-1201 "Factory-made thermal and acoustic insulations made of polyester fibres" the legal basis is:

Commission Decision 1999/91/EC (as amended 2001/596/EC).

The system to be applied is: system 3

In addition, with regard to reaction to fire for products covered by this EAD the applicable European legal act is:

Commission Decision 1999/91/EC (as amended 2001/596/EC).

The system to be applied is: system 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 on 7 January 2026 by Deutsches Institut für Bautechnik

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beglaubigt:
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