



Approval body for construction products and types of construction

Bautechnisches Prüfamt

An institution established by the Federal and Laender Governments



European Technical Assessment

ETA-17/0126 of 5 March 2024

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

This version replaces

Deutsches Institut für Bautechnik

"REGUFOAM sound 10"

Polyurethane(PU) foam mat to be used for impact sound insulation under floating screed

REGUPOL Germany GmbH & Co. KG Am Hilgenacker 24 57319 Bad Berleburg

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

040049-01-0502

ETA-17/0126 issued on 3 March 2017



Page 2 of 6 | 5 March 2024

English translation prepared by DIBt

The European Technical Assessment is issued by the Technical Assessment Body in its official language. Translations of this European Technical Assessment in other languages shall fully correspond to the original issued document and shall be identified as such.

Communication of this European Technical Assessment, including transmission by electronic means, shall be in full. However, partial reproduction may only be made with the written consent of the issuing Technical Assessment Body. Any partial reproduction shall be identified as such.

This European Technical Assessment may be withdrawn by the issuing Technical Assessment Body, in particular pursuant to information by the Commission in accordance with Article 25(3) of Regulation (EU) No 305/2011.



English translation prepared by DIBt

Page 3 of 6 | 5 March 2024

Specific part

1 Technical description of the product

This European Technical Assessment applies to the single-sided profiled polyurethane foam mats "REGUFOAM sound 10" for impact sound insulation under floating screeds, hereinafter referred to as impact sound insulation mats.

The impact sound insulation mats are made with the following dimensions:

Nominal length: 1100 mm Nominal width: 1500 mm Nominal thickness d_L: 17.0 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 impact sound insulation mats are used as insulation material on solid floor slabs for the improvement of impact sound insulation inside buildings. In this connection the impact sound insulation mats are placed in one layer under floating unheated screeds.

As to the application of the impact sound insulation mat, the respective national regulations shall additionally be observed.

The performance according to section 3 only applies if the impact sound insulation mats are installed according to the manufacture's installation instructions and according to annex A and if they are protected from precipitation, wetting or weathering in built-in state and during transport, storage and installation.

The verifications and assessment methods on which this European Technical Assessment is based lead to the assumption of a working life of the polyurethane foam mats of at least 25 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 040049-01-0502 "polyurethane (PU) foam mat to be used for impact sound insulation" apply.

3.1 Safety in case of fire (BWR 2)

Essential characteristic	Performance
Reaction to fire	Class E-d2
test acc. to EN ISO 11925-2:2020	acc. to EN 13501-1:2018



Page 4 of 6 | 5 March 2024

English translation prepared by DIBt

3.2 Hygiene, health and the environment (BWR 3)

Essential characteristic			Performance		
Content, emission substances	and/or	release	of	dangerous	The product does not contain or release dangerous substances according to EOTA TR 034 (version October 2014) except, VOC, SVOC: Based on an individually assessment by the Technical Assessment Body there is no risk, that VOC, SVOC will be set free into indoor air by consideration of all possible release scenarios.
Use scenarios regarding to BWR 3				IA2	

3.3 Protection against noise (BWR 5)

Essential characteristic	Performance		
Dynamic stiffness a)	s' _t ≤ 6 MN/m³		
test acc. to EN 29052-1:1992			
Impact sound reduction with a structural assembly	$\Delta L_w \ge 34 \text{ dB}^{\text{ b}}$		
in accordance with annex A			
Rating acc. to EN ISO 10140:2010 (category II)			
assessment acc. to EN ISO 717-2:2013			
Nominal length	1100 mm		
test acc. to EN 822:2013			
dimensional deviation	L1 acc. to EN 16069:2012 + A1:2015		
Nominal widths	1500 mm		
test acc. to EN 822:2013			
dimensional deviation	W1 acc. to EN 16069:2012+ A1:2015		
Squareness			
test acc. to EN 824:2013			
dimensional deviation	S _b ≤ 5 mm/m		
Thickness	d _L ≥ 17.0 mm		
test acc. to EN 12431:2013			
Compressibility	c ≤ 2.0 mm		
test acc. to EN 12431:2013	(with $c = d_L - d_B$)		
Mass per unit area	2.1 kg/m² to 2.7 kg/m²		
test in line with EN 1602:2013	2.1 kg/m² to 2.7 kg/m²		
Compressive creep	No performance assessed.		



Page 5 of 6 | 5 March 2024

English translation prepared by DIBt

Essential characteristic	Performance
Compressive stress at 10 % deformation test acc. to EN 826:2013	σ _{10 %} ≥ 2.5 kPa
Deformation under specified load and temperature test in line with 1605:2013 with the following test conditions: unheated screed (20 kPa) step A: (23 ± 5)°C / (48 ± 1) h step B: (35 ± 1)°C / (48 ± 1) h	$\begin{array}{lll} \Delta \; \epsilon \leq 5.0 \; \% \\ \mbox{(difference between the relative deformation } \epsilon_1 \; \mbox{after step A and } \epsilon_2 \\ \mbox{after step B)} \end{array}$

a) Note: The dynamic stiffness is not used for calculation of impact sound reduction of a floor build-up. Only the declared impact sound reduction is to be used for the design of protection against noise.

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 040049-01-0502 "polyure-thane (PU) foam mat to be used for impact sound insulation" the legal basis is:

Commission Decision 2000/273/EC (including change)

The system to be applied is: system 3

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 at Deutsches Institut für Bautechnik.

Issued in Berlin on 5 March 2024 by Deutsches Institut für Bautechnik

Frank Iffländer	beglaubigt:
Head of Section	Getzlaff

b) The design of the sound protection is to be performed according to the national provisions taking account of the structural assembly according to annex A.



"REGUFOAM sound 10"

Annex A

The given values for the impact sound reduction in clause 3.3 apply, if the following is taken into account regarding the structural assembly:

- The impact sound insulation mats are loosely laid with the profiled side down on the even solid floor slab to be insulated. If necessary unevenness is leveled off.
- The impact sound insulation mats are laid with edges tightly abutted and fixed with a suitable adhesive tape against displacement in such a way that no gaps will occur in the joint area.
- Appropriate insulating edge strips are used at the boundary area on rising walls in order to avoid sonic bridges.
- The impact sound insulation mats are protected by a suitable foil before the screed will be built in.
- The floating screed, to be executed according to the national provisions, has a mass per unit area of at least 180 kg/m².