



Approval body for construction products and types of construction

Bautechnisches Prüfamt

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European Technical Assessment

ETA-17/1019 of 29 June 2022

English translation prepared by DIBt - Original version in German language

General Part

Technical Assessment Body issuing the Deutsches Institut für Bautechnik **European Technical Assessment:** Trade name of the construction product "REGUPOL sound 15" Product family Impact sound insulation mat to be used for impact sound to which the construction product belongs insulation under floating screed **REGUPOL BSW GmbH** Manufacturer Am Hilgenacker 24 57319 Bad Berleburg DEUTSCHLAND Manufacturing plant **REGUPOL BSW GmbH** Am Hilgenacker 24 57319 Bad Berleburg DEUTSCHLAND This European Technical Assessment 7 pages including 1 annex which form an integral part of contains this assessment This European Technical Assessment is EAD 040049-01-0502 issued in accordance with Regulation (EU) No 305/2011, on the basis of ETA-17/1019 issued on 8 June 2021 This version replaces

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Specific part

1 Technical description of the product

This European Technical Assessment applies to the single-sided profiled impact sound insulation mats "REGUPOL sound 15" for impact sound insulation under floating screeds.

The impact sound insulation mats are made using a polyurethane elastomer composite with the following dimensions:

Nominal length:	1000 mm
Nominal width:	1200 mm
Nominal thickness d∟:	12.0 mm

The impact sound insulation mats are laminated with a water vapor permeable polypropylenefoil or an aluminium composite foil at the non-profiled side.

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 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 impact sound insulation 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
test acc. to EN ISO 11925-2:2010	acc. to EN 13501-1:2007 + A1:2009



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3.2 Hygiene, health and the environment (BWR 3)

Essential characteristic	Performance			
Content, emission and/or release of dangerous substances				
Substance(s) classified as Carc. 1A/1B. ^{a)}				
Substance(s) classified as Muta. 1A/1B. ^{a)}				
Substance(s) classified as EU-cat. Acute Tox. 1, 2 and/or 3; substance(s) classified as Repr. 1A/1B; substance(s) classified as STOT SE 1 and/or STOT RE 1. ^{a)}	The product with a secondary raw material made from used tyres does not contain these dangerous substances actively used with the exception of PAH and N-Nitrosamines. ^{b)}			
РАН	Sum of 16 EPA-PAH: B[a]P:		\leq 50 mg/kg ^{c)} \leq 5 mg/kg ^{c)}	
N-Nitrosamines	≤ 11 μg/kg			
SVOC and VOC	The product was tested for the emission of dangerous substances using the loading factor L= 0.4 m ² /m ³ (for floor) and was therefore assessed: ^{d)}			
		3 days	S	28 days
	Carcinogen (Cat.1A/1B)	< 0.01	l mg/m³	< 0.001 mg/m ³
	TVOC _{spez}	< 10 r	ng/m³	< 1.0 mg/m ³
	TSVOC			< 0.1 mg/m ³
	TVOC without NIK ^{e)}			< 0.1 mg/m ³
	R-value			< 1
Release scenarios regarding BWR 3: IA2 (according to EOTA TR 034)				
 a) In accordance with Regulation (EC) No 1272/2008 b) Assessment based on the detailed manufacturers' statements on dangerous substances c) Assessment based on text method AfRS CS 2014/01 RAK/2014 08 				
d) Statement according to test report based on EN 16516:2018-01				
e) Available at www.dibt.de (Gen	man LCI list)			



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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	$\Delta L_w \geq 29 \text{ dB}^{\text{b}}, c^{\text{c}}$		
In accordance with annex A			
acc to EN ISO 10140-1 annex H)			
assessment acc. to EN ISO 717-2:2013			
Nominal length	1000 mm		
test acc. to EN 822:2013			
dimensional deviation	L1 acc. to EN 16069:2012 + A1:2015		
Nominal widths	1200 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	S₅ ≤ 5 mm/m		
Thickness	d _L ≥ 12.0 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	3.0 kg/m^2 to 3.7 kg/m^2		
test in line with EN 1602:2013			
Compressive creep	No performance assessed.		
Compressive stress at 10 % deformation	σ _{10 %} ≥ 3.0 kPa		
test acc. to EN 826:2013			
Deformation under specified load and temperature	$\Delta \epsilon \leq 5.0 \%$		
test acc. to EN 1605:2013	(difference between the relative		
with test condition 2 (40 kPa, 70 °C, 168 h)	deformation ε_1 after step A and ε_2 after step B)		

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.

b) The given value includes a reduction of 1 dB to take influence of possible ageing into account.

c) 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.

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 "polyurethane (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



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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 at Deutsches Institut für Bautechnik.

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Frank Iffländer Head of Section beglaubigt: Getzlaff

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"REGUPOL sound 15"

ANNEX A

The given values for the impact sound reduction in clause 3.5 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.
- The impact sound insulation mats are protected by a suitable foil before the screed will be built in. As an alternative, the joints between the impact sound insulation mats are sealed with a fabricreinforced high-performance adhesive tape (of at least 10 cm in width) fastened crease-free and centrally across the joint. The tape has got a high adhesive strength and be applied professionally by a qualified person. The adhesive surface is dry and clean to ensure sufficient bonding. The foil covering the whole surface or the adhesive tape sealing the joints to be applied to the top layer of impact sound insulation mats placed directly below the screed.
- Appropriate insulating edge strips are used at the boundary area on rising walls in order to avoid sonic bridges. If the joints are sealed with the above-mentioned adhesive tape, appropriate edge insulation strips need to be used.
- The floating screed, to be executed according to the national provisions, has a mass per unit area of at least 165 kg/m².