



Approval body for construction products and types of construction

Bautechnisches Prüfamt

An institution established by the Federal and Laender Governments



European Technical Assessment

ETA-17/1030 of 12 February 2024

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	REGUPOL comfort 5 REGUPOL comfort 8 REGUPOL comfort 12
Product family to which the construction product belongs	"polyurethane foam mat to be used for impact sound insulation under floating screeds"
Manufacturer	REGUPOL Germany GmbH & Co. KG Am Hilgenacker 24 57319 Bad Berleburg
Manufacturing plant	REGUPOL Germany GmbH & Co. KG Industriestraße 6 (Werk II) 57319 Bad Berleburg DEUTSCHLAND
This European Technical Assessment contains	7 pages including 1 annex 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	040049-01-0502
This version replaces	ETA-17/1030 issued on 4 January 2023



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Specific part

1 Technical description of the product

This European Technical Assessment applies to the polyurethane foam mats "REGUPOL comfort 5", "REGUPOL comfort 8" and "REGUPOL comfort 12" for impact sound insulation under floating screeds, hereinafter referred to as impact sound insulation mats.

The impact sound insulation mats "REGUPOL comfort 8" and "REGUPOL comfort 12" have a single-sided profiled surface.

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

Nominal length:	2250 mm	("REGUPOL comfort 5")
	13000 mm	("REGUPOL comfort 8")
	9300 mm	("REGUPOL comfort 12")
Nominal width:	1150 mm	
Nominal thickness d _L :	5.0 mm	("REGUPOL comfort 5")
	8.0 mm	("REGUPOL comfort 8")
	12.0 mm	("REGUPOL comfort 12")

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.

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 or polyester fibre mat to be used for impact sound insulation" apply.



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3.1 Safety in case of fire (BWR 2)

Essential characteristic	Performance
Reaction to fire	
test acc. to EN ISO 11925-2:2020	
"REGUPOL comfort 5" and "REGUPOL comfort 12"	Class E-d2 acc. to EN 13501-1:2018
" REGUPOL comfort 8"	Class E acc. to EN 13501-1:2018

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:		≤ 50 mg/kg ^{c)} ≤ 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= $0.4 \text{ m}^2/\text{m}^3$ (for floor) and was therefore assessed: ^d			
		3 days	S	28 days
	Carcinogen (Cat.1A/1B)	< 0.01	l mg/m ³	< 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 regardin	g BWR 3: IA2 (accordine	g to EO	TA TR 034)	
a) In accordance with Regulationb) Assessment based on the detc) Assessment based on test me	ailed manufacturers´ statemen		ngerous substances	5

d) Statement according to test report based on EN 16516:2018-01

e) Available at www.dibt.de (German LCI list)



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3.3 Protection against noise (BWR 5)

Essential characteristic	Performance		
Dynamic stiffness ^{a)}			
test acc. to EN 29052-1:1992			
"REGUPOL comfort 5"	s' _t ≤ 110 MN/m³		
"REGUPOL comfort 8"	s't ≤ 16 MN/m³		
"REGUPOL comfort 12"	s' _t ≤ 10 MN/m³		
Impact sound reduction with a structural assembly			
in accordance with annex A ^{b), c)}			
Rating acc. to EN ISO 10140:2010 (category II			
acc. to EN ISO 10140-1, annex H)			
assessment acc. to EN ISO 717-2:2013			
"REGUPOL comfort 5"	$\Delta L_w \geq 18 \text{ dB}^{\text{d}}$		
	$\Delta L_w \ge 18 \text{ dB}^{\text{e}}$		
"REGUPOL comfort 8"	$\Delta L_w \geq 21 \text{ dB}^{\text{f}}$		
	$\Delta L_w \geq 24 \text{ dB}^{\text{g}}$		
"REGUPOL comfort 12"	$\Delta L_w \geq 26 \text{ dB}^{\text{h}}$		
	$\Delta L_{w} \geq 27 \text{ dB}^{i}$		
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	S₅≤5 mm/m		
Thickness			
test acc. to EN 12431:2013			
"REGUPOL comfort 5"	d∟ ≥ 5.0 mm		
"REGUPOL comfort 8"	d _L ≥ 8.0 mm		
"REGUPOL comfort 12"	d _L ≥ 12.0 mm		
Compressibility	(with $c = d_L - d_B$)		
test acc. to EN 12431:2013			
"REGUPOL comfort 5"	c ≤ 1.0 mm		
"REGUPOL comfort 8"	c ≤ 1.0 mm		
"REGUPOL comfort 12"	c ≤ 2.0 mm		
Mass per unit area			
test in line with EN 1602:2013			
"REGUPOL comfort 5"	1.8 kg/m ² to 2.2 kg/m ²		
"REGUPOL comfort 8"	2.3 kg/m ² to 2.9 kg/m ²		
"REGUPOL comfort 12"	2.7 kg/m ² to 3.3 kg/m ²		
Compressive creep	No performance assessed.		



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Essential characteristic	Performance
Compressive stress at 10 % deformation	
test acc. to EN 826:2013	
"REGUPOL comfort 5"	σ _{10 %} ≥ 25.0 kPa
"REGUPOL comfort 8"	σ _{10 %} ≥ 4.0 kPa
"REGUPOL comfort 12"	σ _{10 %} ≥ 3.0 kPa
Deformation under specified load and temperature test acc. to EN 1605:2013 with test condition 2	(difference between the relative deformation ϵ_1 after step A and ϵ_2
step A: $(23 \pm 5)^{\circ}$ C / (48 ± 1) h / 40 kPa	after step B)
step B: (70 ± 1)°C / (168 ± 1) h / 40 kPa	
"REGUPOL comfort 5"	<i>Δ</i> ε ≤ 5.0 %
"REGUPOL comfort 8"	$\Delta \epsilon \leq 5.0 \%$
"REGUPOL comfort 12"	$\Delta \epsilon \leq 5.0 \%$

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 2 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.

d) with cement screed with quick cement and synthetic resin dispersion, mixed with steel fibers (75 kg/m², 37 mm)

e) with cement screed (105 kg/m², 53 mm)

f) with cement screed with quick cement and synthetic resin dispersion, mixed with steel fibers (90 kg/m², 42 mm)

- g) with cement screed (188 kg/m², 92 mm)
- h) with cement screed with quick cement and synthetic resin dispersion, mixed with steel fibers (89 kg/m², 43 mm)
 i) with cement screed (118 kg/m², 59 mm)

3.4 Energy economy and heat retention (BWR 6)

Essential characteristic	Performance
Thermal conductivity and thermal resistance	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 No 040049-01-0502 "polyurethane (PU) foam mat or polyester fibre 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

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.

Issued in Berlin on 12 February 2024 by Deutsches Institut für Bautechnik

Frank Iffländer Head of Section *beglaubigt:* Getzlaff



Annex A

REGUPOL comfort 5 REGUPOL comfort 8 REGUPOL comfort 12

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 according to clause 3.3, footnote d) to i).