

TECHNICAL DATA

REGUPOL SOUND 47



Product

Impact and airborne sound insulating underlayment for various floor structures under screed beds and floating floors with traffic loads $\geq 5 \text{ kN/m}^2$, CE certified.

Material

- Polyurethane-bonded rubber fibres
- Dimpled profile on the underside

Weight

3.6 kg/m²

Dimensions

Length: 13,000 mm, Width: 1,150 mm, Thickness: 8 mm

Applications

Under screed beds and floating floors for both residential and commercial use $\geq 5 \text{ kN/m}^2$, e. g. floor renovations, new buildings, reconstructions.

Certification

European Technical Assessment ETA-10/0056

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Acoustical Performance*	Standard	Result	Comment
70 mm cement screed, REGUPOL sound 47 , 140 mm concrete slab	DIN EN ISO 10140-3 DIN EN ISO 717-2	$\Delta L_w \geq 23 \text{ dB}$	According to ETA: $\Delta L_w \geq 22 \text{ dB}$ PB4.2/16-145-2

*Assembly from top to bottom

Material properties	Standard	Result
Maximum traffic load		30 kN/m ²
Mean dynamic stiffness value	DIN EN 29052-1	$s'_t \leq 30 \text{ MN/m}^3$
Compressibility	DIN EN 12431	$c \leq 1 \text{ mm}$

Thermal behaviour	Standard	Result
Thermal conductivity	DIN EN 12667	$\lambda = 0.075 \text{ W/(mK)}$
Thermal resistance	DIN EN 12667	$R = 0.08 \text{ (m}^2\text{K)/W}$
Temperature resistance		-20 to +60° C

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Fire behaviour	Standard	Result
Fire classification	DIN EN 13501-1	E

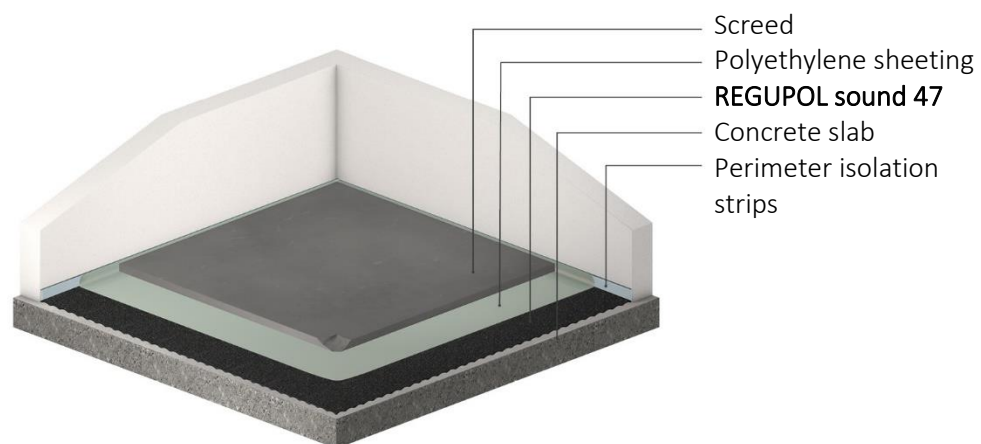
Moisture behaviour	Standard	Result
Sensitivity to moisture		To be protected from moisture during storage, transport and installation

Health protection	Standard	Result
VOC	DIN EN 16516	compliant with EU-LCI list and German AgBB scheme; "A+" as per décret n°2011-321
Nitrosamine	DIK Method	Compliant with German Model Building Regulation
PAH	DIN EN 18287	Compliant with German Model Building Regulation

Compressive stress [N/mm ²]	Settlement [mm]	Bedding modulus [MN/m ³]
0.0015	0	0
0.0059	0.476	12.0
0.0118	0.863	14.0
0.0206	1.284	16.0
0.0294	1.605	18.0
0.0118	1.066	11.0

The tests have been conducted and analysed as per DIN 18134
Test specimen sizing and equipment has been set up as per DIN EN 826

Floor assembly



For more assemblies and test reports, please visit www.regupol.com

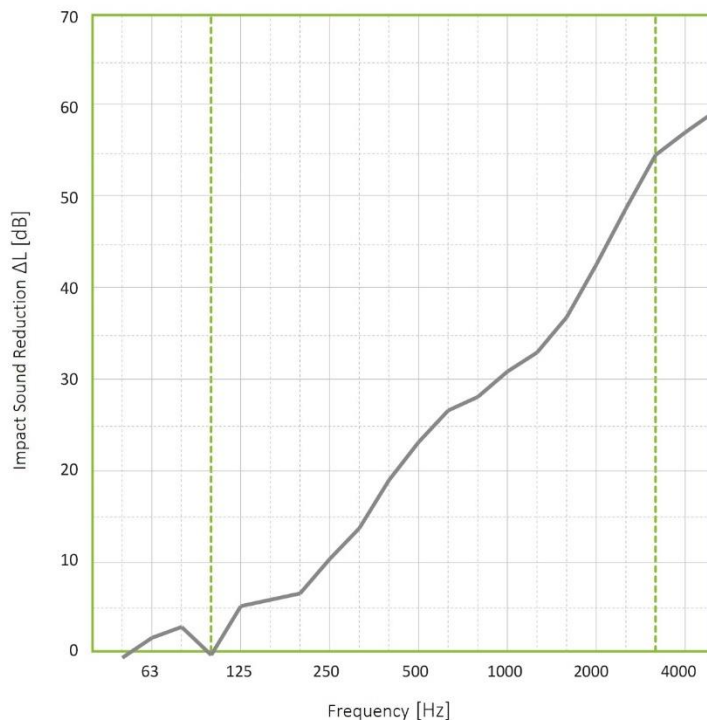
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Detailed test results for impact sound reduction

Test report PB 4.2/16-145-2



Assembly

65 mm Cement screed
(CT-C25-F4), 137 kg/m²

Polyethylene sheeting

8 mm REGUPOL sound 47

140 mm Concrete Slab

Test room size

4.41 x 4.15 m = 18.30 m²

Publication of test results by MFPA

Leipzig GmbH.

The full test report PB4.2/16-145-2 dtd.
29/06/2016 is available upon request.

Frequency [Hz]	L _{n,0} 1/3 octave [dB]	ΔL 1/3 octave [dB]
50	58.2	-0.7
63	62.9	1.5
80	59.6	2.7
100	62.0	-0.4
125	69.0	5.0
160	66.4	5.7
200	64.9	6.4
250	65.9	10.2
315	65.4	13.6
400	66.7	18.9
500	67.9	23.1
630	68.4	26.6
800	69.0	28.1
1000	69.4	30.9
1250	69.3	33.0
1600	69.9	36.9
2000	70.4	42.7
2500	70.6	48.9
3150	71.5	54.8
4000	70.3	57.3
5000	68.1	59.6

Impact Sound Reduction
as per ISO 717-2

ΔL_w = 23 dB

C_{l, Δ} = -12 dB

C_{l, r} = 1 dB

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