

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 $\geq 5 \text{ N/m}^2$, CE certified.

Material

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

Weight

56.0 kg/roll – 3.5 kg /m²

Dimensions

Length: 13000 mm, Width: 1150 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



Acoustical Performance*	Standard	Result
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: $\Delta L_w \geq 22 \text{ dB}$

*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	$c \leq 2 \text{ mm}$

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

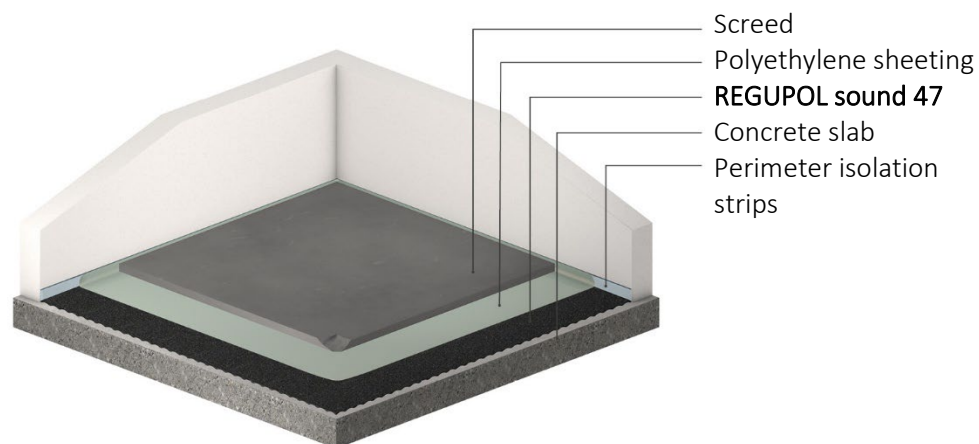
Moisture behaviour	Standard	Result
Sensitivity to moisture		To be protected from moisture during storage, transport, and installation

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.au

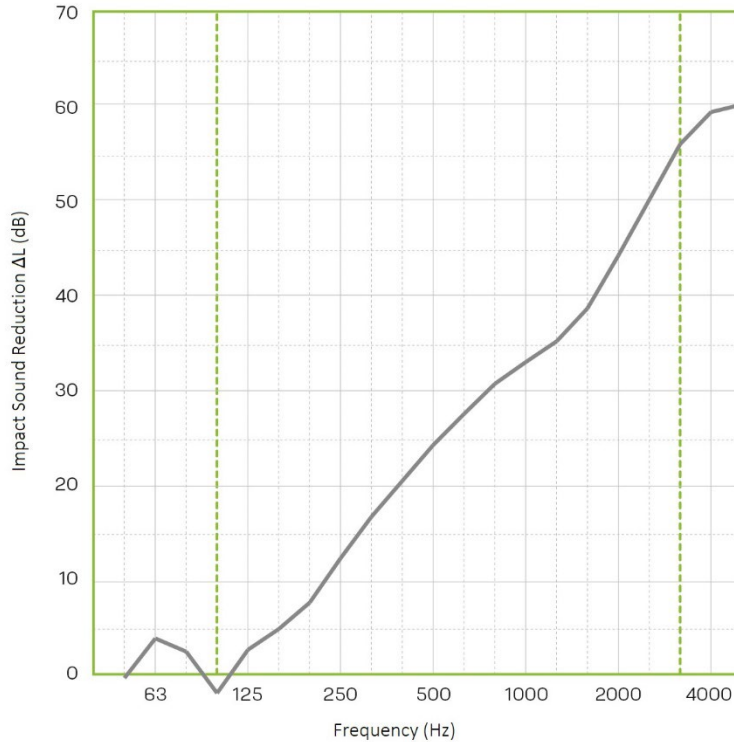
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Detailed test results for impact sound reduction

Test report PB 4.2/13-189-2



Assembly

75 mm Cement screed ZE 20
(CT-C25-F4), 142 kg/m²
Polyethylene sheeting
8 mm REGUPOL sound 47
140 mm Concrete Slab

Test room size

4.67 x 4.30 m = 20.10 m²

Publication of test results by MFPA
Leipzig GmbH.
The full test report PB4.2/13-189-2 dtd.
26/07/2013 is available upon request.

Frequency [Hz]	L _{n,0} 1/3 octave [dB]	ΔL 1/3 octave [dB]
50	58.0	-04
63	63.8	3.8
80	59.2	2.4
100	59.4	-2.0
125	66.2	2.6
160	63.7	4.8
200	64.4	7.6
250	64.3	12.3
315	66.0	16.7
400	66.3	20.5
500	66.7	24.3
630	67.0	27.6
800	68.2	30.8
1000	68.7	33.1
1250	69.7	35.3
1600	69.2	38.8
2000	69.3	44.4
2500	69.9	50.3
3150	70.9	56.2
4000	69.6	59.6
5000	67.3	60.4

Impact Sound Reduction
as per ISO 717-2

ΔL_w ≥ 23 dB

C_{l,Δ} = -13 dB

C_{l,r} = 2 dB

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