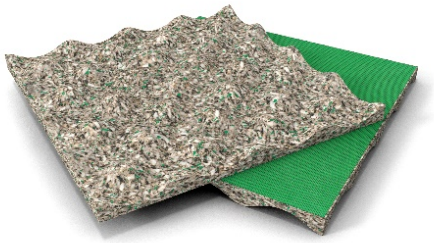
TECHNICAL DATA

REGUPOL SOUND 15

Product
Impact and airborne sound insulating underlayment for various floor structures under screed beds and floating floors with traffic loads ≥ 5 N/m², CE certified.



Material
- Polyurethane-bonded elastomers
- Dimpled profile on the underside
- Laminated with breathable sheeting on top

Weight
4.5 kg/sheet – 3.7 kg per m²

Dimensions
Length: 1000 mm, Width: 1200 mm, Thickness: 12 mm

Applications
Under screed beds and floating floors for both residential and commercial use ≥ 5 kN/m², e. g. floor renovations, new buildings, reconstructions.

Certification
European Technical Assessment ETA-17/1019

Acoustical Performance*	**Standard**	**Result**
85 mm cement screed, **REGUPOL sound 15**, 140 mm concrete slab	DIN EN ISO 10140-3 DIN EN ISO 717-2	$\Delta L_w \geq 30$ dB According to ETA $\Delta L_w \geq 29$ dB

*Assembly from top to bottom

Material properties	**Standard**	**Result**
Maximum traffic load		30 kN/m²
Mean dynamic stiffness value	DIN EN 29052-1	$s'_t \leq 6$ MN/m³
Compressibility	DIN EN 12431	c ≤ 2 mm

Thermal behaviour	**Standard**	**Result**
Thermal conductivity	DIN EN 12667	λ = 0.06 W/(mK)
Thermal resistance	DIN EN 12667	R = 0.14 (m²K)/W
Temperature resistance		-20 to +60° C

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REGUPOL SOUND 15

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

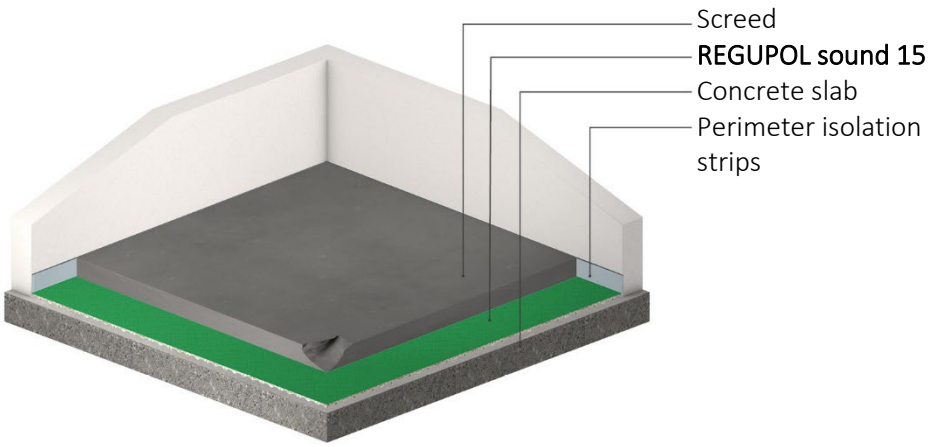
Moisture behaviour	Standard	Result
Sensitivity to moisture		To be protected from moisture during storage, transport, and installation

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/mm²]	Settlement [mm]	Bedding modulus [MN/m³]
0.0015	0.7	2.4
0.0060	2.2	2.7
0.0120	3.4	3.6
0.0210	4.3	4.8
0.0300	4.9	6.1
0.0120	3.6	3.3

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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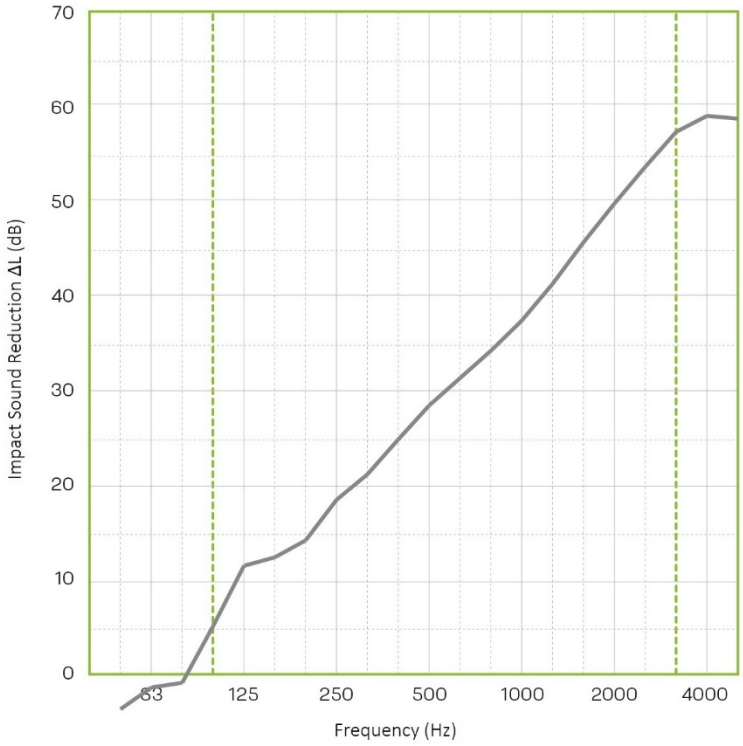
TECHNICAL DATA

REGUPOL SOUND 15

Detailed test results for impact sound reduction
Test report PB 4.2/17-068-1



Assembly
85 mm Cement screed ZE 20 (CT-C25-F4), 165 kg/m²
12 mm REGUFOAM sound 15
140 mm Concrete Slab

Test room size
4.41 x 4.13 m = 18.20 m²

Publication of test results by MFPA Leipzig GmbH.
The full test report PB4.2/17-068-1 dtd. 28/07/2017 is available upon request.

Frequency [Hz]	**$L_{n,0}$** 1/3 octave [dB]	**ΔL** 1/3 octave [dB]
50	59.1	-3.7
63	62.8	-1.4
80	58.9	-0.9
100	61.5	5.1
125	68.4	11.5
160	65.7	12.4
200	65.3	14.2
250	66.6	18.5
315	65.6	21.2
400	66.5	24.9
500	67.8	28.5
630	68.1	31.4
800	69.0	34.3
1000	69.4	37.5
1250	69.1	41.4
1600	69.5	45.8
2000	70.2	49.9
2500	70.5	53.8
3150	71.3	57.5
4000	70.0	59.2
5000	67.7	58.9

Impact Sound Reduction
as per ISO 717-2

$\Delta L_w \geq 30$ dB

$C_{I,\Delta} = -13$ dB

$C_{I,r} = 2$ dB

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