

# TECHNICAL DATA

## REGUPOL SOUND 17



### 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
- Laminated with sheeting on top

### Weight

7.3 kg/m<sup>2</sup>



### Dimensions

Length: 1,000 mm, Width: 1,200 mm, Thickness: 17 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-10/0057

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Acoustical Performance*	Standard	Result	Comment
120 mm cement screed, <b>REGUPOL sound 17</b> , 140 mm concrete slab	DIN EN ISO 10140-3 DIN EN ISO 717-2	$\Delta L_w \geq 26 \text{ dB}$	According to ETA: $\Delta L_w \geq 26 \text{ dB}$  PB4.2/16-378-2
125 mm cement screed, <b>REGUPOL sound 17</b> (2 layers), 140 mm concrete slab	DIN EN ISO 10140-3 DIN EN ISO 717-2	$\Delta L_w \geq 31 \text{ dB}$	According to ETA: $\Delta L_w \geq 30 \text{ dB}$  PB4.2/15-391-6

\*Assembly from top to bottom

Material properties	Standard	Result	Comment
Maximum traffic load		50 kN/m <sup>2</sup>	
Mean dynamic stiffness value	DIN EN 29052-1	$s'_t \leq 19 \text{ MN/m}^3$ $s'_t \leq 9 \text{ MN/m}^3$	one layer (17 mm) two layers (2 x 17 mm)
Compressibility	DIN EN 12431	$c \leq 2 \text{ mm}$ $c \leq 3 \text{ mm}$	one layer (17 mm) two layers (2 x 17 mm)

Thermal behaviour	Standard	Result
Thermal conductivity	DIN EN 12667	$\lambda = 0.08 \text{ W/(mK)}$
Thermal resistance	DIN EN 12667	$R = 0.16 \text{ (m}^2\text{K)/W}$

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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

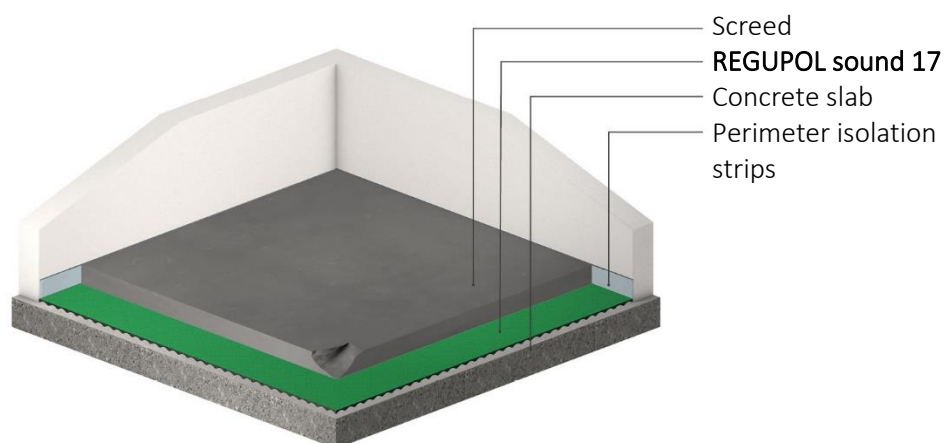
Health protection	Standard	Result
VOC	DIN EN 16516	compliant with EU-LCI list and German AgBB scheme; "A+" as per décret n°2011-321
Nitrosamine	DIK Method	Compliant with German Model Building Regulation
PAH	DIN EN 18287	Compliant with German Model Building Regulation

Bedding modulus for one layer (17 mm)			Bedding modulus for two layers (2x 17 mm)		
Compressive stress [N/mm <sup>2</sup> ]	Settlement [mm]	Bedding modulus [MN/m <sup>3</sup> ]	Compressive stress [N/mm <sup>2</sup> ]	Settlement [mm]	Bedding modulus [MN/m <sup>3</sup> ]
0.0025	0	0	0.0025	1.9	1.3
0.0098	1.4	7.0	0.0098	5.0	2.0
0.0196	2.6	8.0	0.0196	7.5	2.6
0.0343	3.9	9.0	0.0343	9.5	3.6
0.0490	4.7	10.0	0.0490	11.0	4.5
0.0196	3.2	6.0	0.0196	8.7	2.3

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

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**REGUPOL SOUND 17**



For more assemblies and test reports, please visit [www.regupol.com](http://www.regupol.com)

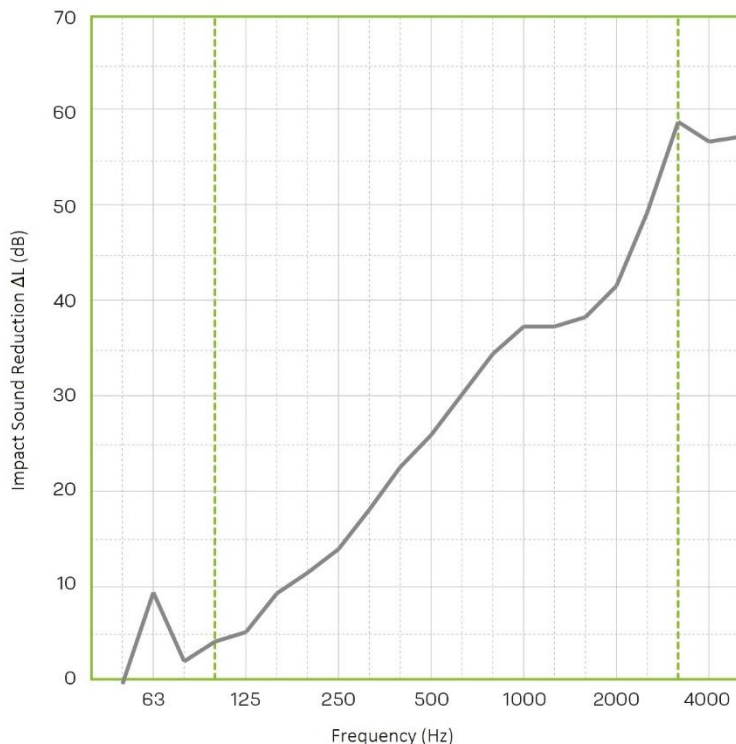
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### Detailed test results for impact sound reduction

Test report PB 4.2/13-444-3



Frequency [Hz]	$L_{n,0}$ 1/3 octave [dB]	$\Delta L$ 1/3 octave [dB]
50	57.5	-0.5
63	64.8	9.2
80	59.3	1.9
100	61.4	4.0
125	65.0	5.0
160	64.0	9.1
200	64.8	11.3
250	64.7	13.8
315	66.4	18.0
400	67.0	22.5
500	67.1	25.9
630	67.6	30.2
800	68.7	34.5
1000	68.8	37.4
1250	69.2	37.4
1600	69.4	38.4
2000	69.8	41.7
2500	70.3	49.5
3150	71.6	59.1
4000	70.6	57.0
5000	68.3	57.5

#### Assembly

115 mm Cement screed  
CT-C25-F4, 220 kg/m<sup>2</sup>

**17 mm REGUPOL sound 17**

140 mm Concrete Slab

#### Test room size

4.67 x 4.30 m = 20.10 m<sup>2</sup>

Publication of test results by MFPA Leipzig GmbH.  
The full test report PB4.2/13-444-3 dtd. 13/02/2014 is available upon request.

Impact Sound Reduction  
as per ISO 717-2

$\Delta L_w = 27$  dB

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

$C_{l,r} = 2$  dB

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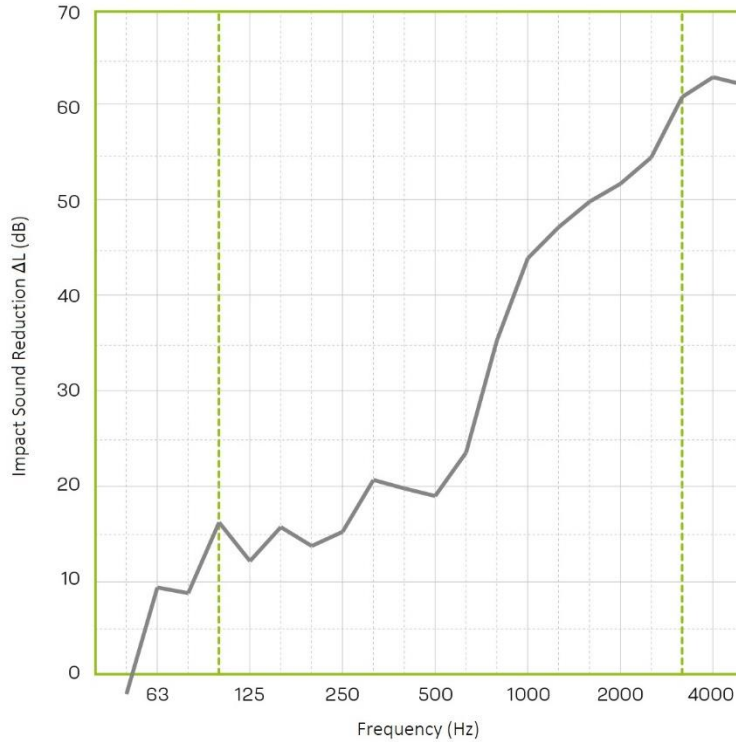
# TECHNICAL DATA

## REGUPOL SOUND 17



### Detailed test results for impact sound reduction

Test report PB 4.2/15-391-6



Frequency [Hz]	$L_{n,0}$ 1/3 octave [dB]	$\Delta L$ 1/3 octave [dB]
50	57.1	-2.1
63	64.2	9.2
80	57.9	8.6
100	64.0	16.1
125	66.1	12.0
160	65.9	15.6
200	65.9	13.6
250	63.4	15.1
315	65.5	20.6
400	66.3	19.7
500	67.2	18.9
630	67.6	23.5
800	68.2	35.4
1000	69.1	44.1
1250	69.0	47.4
1600	69.6	50.1
2000	69.9	52.0
2500	70.3	54.8
3150	71.5	61.2
4000	70.3	63.3
5000	68.1	62.5

#### Assembly

125 mm Cement screed  
CT-C25-F4, 249 kg/m<sup>2</sup>

2x 17 mm

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140 mm Concrete Slab

#### Test room size

4.67 x 4.30 m = 20.10 m<sup>2</sup>

Publication of test results by MFPA Leipzig GmbH.  
The full test report PB4.2/15-391-6 dtd. 22/02/2016 is available upon request.

Impact Sound Reduction as per ISO 717-2

$\Delta L_w = 31$  dB

$C_{i,\Delta} = -11$  dB

$C_{i,r} = 0$  dB

For more assemblies and test reports, please visit [www.regupol.com](http://www.regupol.com)