

Impact Sound Insulation Under Screed

Largely rot-, moisture-, age- and deformation-resistant, permanently elastic

Material

PU-bonded rubber fibres

Standard delivery form

in rolls of 15 m² each, 13,040 x 1,150 x 8 mm

Temperature resistance

from -20 °C to +80 °C

Colour

Anthracite



Regupol® sound 47, dimpled on underside

Physical Data

weighted impact noise reduction as per ISO 717-2
 $\Delta L_w \geq 20 \text{ dB}$

Mean value for dynamic rigidity as per DIN EN 29052-1
 $s' \approx 47 \text{ MN/m}^3$

Thermal conductivity

$\lambda = 0.075 \text{ W/mK}$

Thermal resistance

$R = 0.1031 \text{ m}^2\text{K/W}$

Fire classification as per DIN 4102/DIN EN 13501-1

B2 / Class E

Maximum traffic load

up to 3,000 kg/m²

Compressibility as per DIN EN 12431

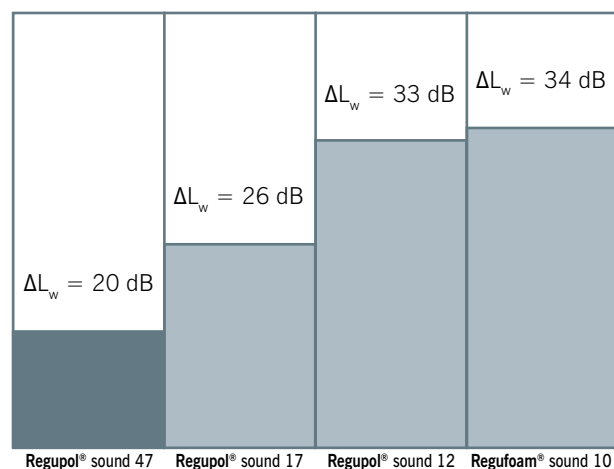
$c \leq 1.0 \text{ mm}$

National technical approval no.: Z-23.21-1694

European technical approval no.: ETA-10-0056

Compressive stress (N/mm ²)	Settlement (mm)	Bedding modulus (MN/mm ³)
0.0015	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

Performance and evaluation of test as per DIN 18134, sample measurements and testing facility as per DIN EN 826. Tested by Technical University Dresden.



Impact Noise Reduction Regupol® sound 47 as per ISO 140-8

Measurement of the impact noise reduction, provided by a floor covering on a solid standard floor under test conditions

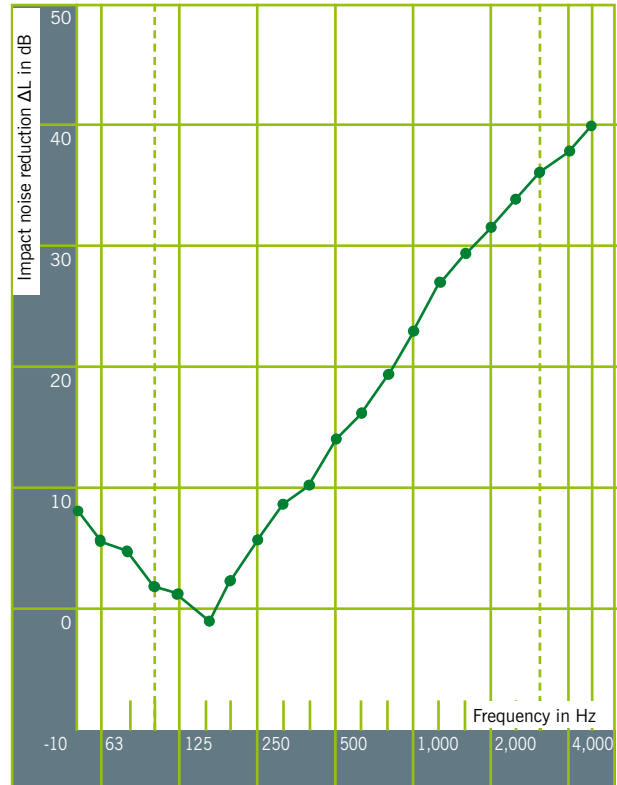
Description of the test object

- 68 mm concrete screed
- 0.20 mm PE foil
- 8 mm screed insulation mat, **Regupol® sound 47** (dimpled on one side)
- mean value of dynamic rigidity as per DIN EN 29052-1, $s' \approx 47 \text{ MN/m}^3$
- 8 mm perimeter screed strip (foamed PE foil)
- 140 mm raw ceiling

Basis weight approx. 135 kg/m²
 Setting time 552 h
 Air temperature in the test rooms 21 °C
 Humidity in the test rooms 56 %
 Volume of reception room 54.2 m³

Impact noise reduction improvement as per ISO 717-2

$\Delta L_w \geq 20 \text{ dB}$ $C_{i,\Delta} = -12 \text{ dB}$ $C_{i,r} = 1 \text{ dB}$
 The results refer only to the tested structure.



Tested by the MPA (German materials testing agency).

Test for obtaining the national technical approval

on 05.12.2005
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We will be pleased to send you the complete test report no. 420001705 upon request.

Frequency Hz	L_{n_i} raw ceiling without test set-up 1/3 octave dB	L_{n_i} raw ceiling with test set-up 1/3 octave dB	ΔL 1/3 octave dB
50	70.2	61.7	8.5
63	64.2	58.7	5.5
80	66.4	61.7	4.7
100	58.9	57.4	1.5
125	64.3	63.2	1.1
160	66.5	67.5	-1.0
200	68.8	66.1	2.7
250	69.0	63.0	6.0
315	68.9	60.0	8.9
400	69.5	59.4	10.1
500	70.1	55.8	14.3
630	69.9	53.5	16.4
800	69.7	50.3	19.4
1,000	70.8	47.5	23.3
1,250	71.3	43.9	27.4
1,600	71.4	41.7	29.7
2,000	71.0	39.3	31.7
2,500	70.9	36.8	34.1
3,150	70.0	33.7	36.3
4,000	68.6	30.6	38.0
5,000	65.9	25.9	40.0