

Regufoam® sound 10

Largely rot-, moisture-, age- and deformation-resistant, permanently elastic, but protect against large volumes of water. For installation with underfloor heating please contact us for further information.

Material

Mixed-cell polyurethane foam

Standard delivery form

1,500 x 1,100 x 17 mm, 198 m² per pallet

Temperature resistance

from -20 °C to +80 °C

Colour

light blue



Regufoam® sound 10, dimpled on underside

Physical Data

weighted impact noise reduction as per ISO 717-2
 $\Delta L_w \geq 34$ dB

Mean value for dynamic rigidity as per DIN EN 29052-1
 $s' t \leq 10$ MN/m³

Thermal conductivity

$\lambda = 0.046$ W/mK

Thermal resistance

$R = 0.331$ m²K/W

Fire classification according to DIN 4102/DIN EN 13501-1

Class E (B 2)

Maximum traffic load

up to 2,500 kg/m² (25 kN/m²)

Compressibility as per DIN EN 12431

$c \leq 2.0$ mm, deformation-resistant, compressible volume

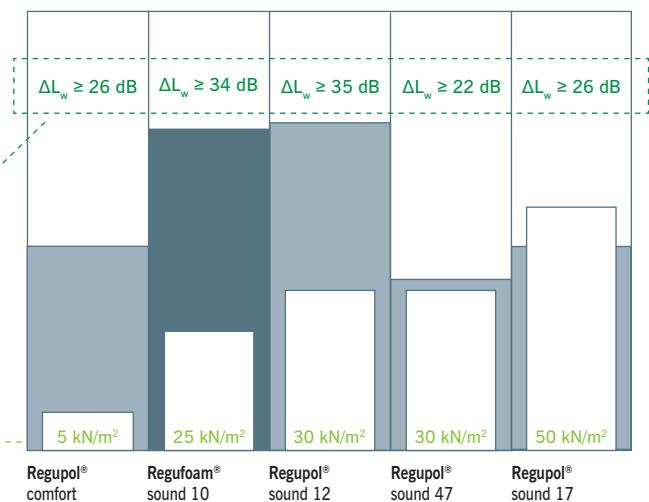
General Technical Approval: Z-23.21-1905

Mean value of impact noise reduction according to German Technical Approval

Maximum traffic load

Compressive stress (N/mm ²)	Settlement (mm)	Bedding modulus (MN/m ³)
0.005	3.4	1.5
0.010	4.9	2.1
0.015	5.9	2.5
0.020	7.0	2.8
0.025	8.1	3.1
0.030	9.2	3.4
0.035	10.3	3.7
0.040	11.4	4.0
0.045	12.5	4.3
0.050	13.6	4.6
0.055	14.7	4.9
0.060	15.8	5.2
0.065	16.9	5.5
0.070	18.0	5.8
0.075	19.1	6.1
0.080	20.2	6.4
0.085	21.3	6.7
0.090	22.4	7.0
0.095	23.5	7.3
0.100	24.6	7.6
0.105	25.7	7.9
0.110	26.8	8.2
0.115	27.9	8.5
0.120	29.0	8.8
0.125	30.1	9.1
0.130	31.2	9.4
0.135	32.3	9.7
0.140	33.4	10.0
0.145	34.5	10.3
0.150	35.6	10.6
0.155	36.7	10.9
0.160	37.8	11.2
0.165	38.9	11.5
0.170	40.0	11.8
0.175	41.1	12.1
0.180	42.2	12.4
0.185	43.3	12.7
0.190	44.4	13.0
0.195	45.5	13.3
0.200	46.6	13.6
0.205	47.7	13.9
0.210	48.8	14.2
0.215	49.9	14.5
0.220	51.0	14.8
0.225	52.1	15.1
0.230	53.2	15.4
0.235	54.3	15.7
0.240	55.4	16.0
0.245	56.5	16.3
0.250	57.6	16.6
0.255	58.7	16.9
0.260	59.8	17.2
0.265	60.9	17.5
0.270	62.0	17.8
0.275	63.1	18.1
0.280	64.2	18.4
0.285	65.3	18.7
0.290	66.4	19.0
0.295	67.5	19.3
0.300	68.6	19.6
0.305	69.7	19.9
0.310	70.8	20.2
0.315	71.9	20.5
0.320	73.0	20.8
0.325	74.1	21.1
0.330	75.2	21.4
0.335	76.3	21.7
0.340	77.4	22.0
0.345	78.5	22.3
0.350	79.6	22.6
0.355	80.7	22.9
0.360	81.8	23.2
0.365	82.9	23.5
0.370	84.0	23.8
0.375	85.1	24.1
0.380	86.2	24.4
0.385	87.3	24.7
0.390	88.4	25.0
0.395	89.5	25.3
0.400	90.6	25.6
0.405	91.7	25.9
0.410	92.8	26.2
0.415	93.9	26.5
0.420	95.0	26.8
0.425	96.1	27.1
0.430	97.2	27.4
0.435	98.3	27.7
0.440	99.4	28.0
0.445	100.5	28.3
0.450	101.6	28.6
0.455	102.7	28.9
0.460	103.8	29.2
0.465	104.9	29.5
0.470	106.0	29.8
0.475	107.1	30.1
0.480	108.2	30.4
0.485	109.3	30.7
0.490	110.4	31.0
0.495	111.5	31.3
0.500	112.6	31.6
0.505	113.7	31.9
0.510	114.8	32.2
0.515	115.9	32.5
0.520	117.0	32.8
0.525	118.1	33.1
0.530	119.2	33.4
0.535	120.3	33.7
0.540	121.4	34.0
0.545	122.5	34.3
0.550	123.6	34.6
0.555	124.7	34.9
0.560	125.8	35.2
0.565	126.9	35.5
0.570	128.0	35.8
0.575	129.1	36.1
0.580	130.2	36.4
0.585	131.3	36.7
0.590	132.4	37.0
0.595	133.5	37.3
0.600	134.6	37.6
0.605	135.7	37.9
0.610	136.8	38.2
0.615	137.9	38.5
0.620	139.0	38.8
0.625	140.1	39.1
0.630	141.2	39.4
0.635	142.3	39.7
0.640	143.4	40.0
0.645	144.5	40.3
0.650	145.6	40.6
0.655	146.7	40.9
0.660	147.8	41.2
0.665	148.9	41.5
0.670	150.0	41.8
0.675	151.1	42.1
0.680	152.2	42.4
0.685	153.3	42.7
0.690	154.4	43.0
0.695	155.5	43.3
0.700	156.6	43.6
0.705	157.7	43.9
0.710	158.8	44.2
0.715	159.9	44.5
0.720	161.0	44.8
0.725	162.1	45.1
0.730	163.2	45.4
0.735	164.3	45.7
0.740	165.4	46.0
0.745	166.5	46.3
0.750	167.6	46.6
0.755	168.7	46.9
0.760	169.8	47.2
0.765	170.9	47.5
0.770	172.0	47.8
0.775	173.1	48.1
0.780	174.2	48.4
0.785	175.3	48.7
0.790	176.4	49.0
0.795	177.5	49.3
0.800	178.6	49.6
0.805	179.7	49.9
0.810	180.8	50.2
0.815	181.9	50.5
0.820	183.0	50.8
0.825	184.1	51.1
0.830	185.2	51.4
0.835	186.3	51.7
0.840	187.4	52.0
0.845	188.5	52.3
0.850	189.6	52.6
0.855	190.7	52.9
0.860	191.8	53.2
0.865	192.9	53.5
0.870	194.0	53.8
0.875	195.1	54.1
0.880	196.2	54.4
0.885	197.3	54.7
0.890	198.4	55.0
0.895	199.5	55.3
0.900	200.6	55.6
0.905	201.7	55.9
0.910	202.8	56.2
0.915	203.9	56.5
0.920	205.0	56.8
0.925	206.1	57.1
0.930	207.2	57.4
0.935	208.3	57.7
0.940	209.4	58.0
0.945	210.5	58.3
0.950	211.6	58.6
0.955	212.7	58.9
0.960	213.8	59.2
0.965	214.9	59.5
0.970	216.0	59.8
0.975	217.1	60.1
0.980	218.2	60.4
0.985	219.3	60.7
0.990	220.4	61.0
0.995	221.5	61.3

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 Regufoam® sound 10 as per ISO 10140

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

Description of the test object

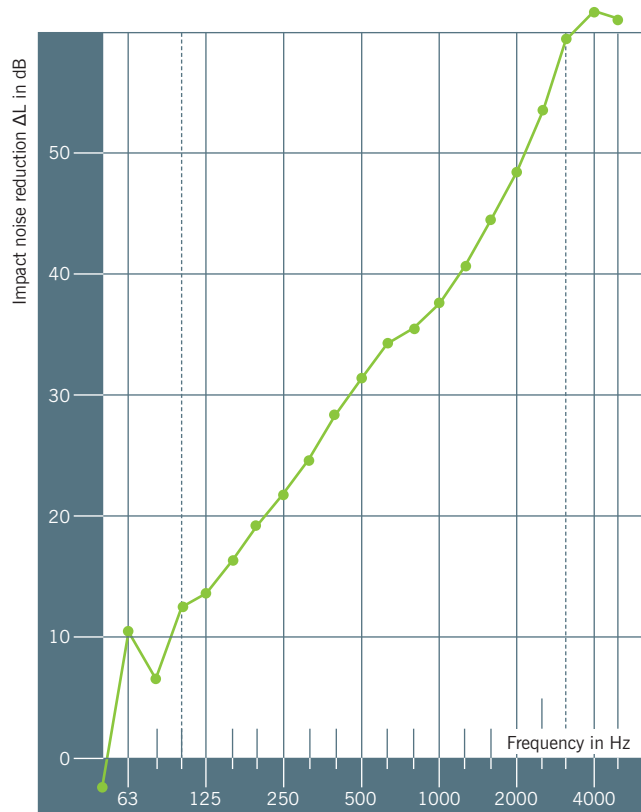
- 140 mm reinforced concrete floor
- 17 mm **Regufoam® sound 10** screed insulation mat
- 0.2 mm PE-foil
- 95 mm screed
- total thickness 253 mm

Mass per unit area: 204 kg/m²
 Test surface area: 4.67 x 4.30 = 20.10 m²
 Volume of test rooms: V_s = 64,50 m³,
 V_E = 58,90 m³
 Air temperature in test rooms: 19 °C
 Water curing: 22 days

Impact noise reduction improvement as per ISO 717-2

$\Delta L_w \geq 35 \text{ dB}$ $C_{l,\Delta} = -12 \text{ dB}$ $C_{l,r} = 1 \text{ dB}$

The results refer only to the tested structure.



Qualification test for DIN 4109 on 19.12.2013

Publication of the results is authorised by MFWA Leipzig GmbH
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We will be pleased to send you the complete test report no.
 PB 4.2/13-445-1 upon request.

Frequency f Hz	L _{n,0} raw ceiling 1/3 octave dB	ΔL 1/3 octave dB
100	61.6	12.5
125	65.3	13.7
160	64.5	16.1
200	65.0	19.1
250	64.9	21.9
315	66.3	24.8
400	67.2	28.3
500	67.2	31.3
630	67.7	34.2
800	68.8	35.5
1,000	68.9	37.8
1,250	69.2	40.7
1,600	69.5	44.6
2,000	69.9	48.5
2,500	70.4	53.6
3,150	71.8	59.5

Regupol® sound 12

Largely age-resistant, permanently elastic. The material must be carefully and permanently protected against moisture during transport, storage, processing and use. Wet material may not be used.

Material

PU-bonded elastomers

Standard delivery form

1,200 x 1,000 x 17 mm, 60 m² per pallet

Temperature resistance

from -20 °C to +80 °C

Colour

brown-beige, dark particles

Upper side laminated with green aluminum foil.



Regupol® sound 12, dimpled on underside

Physical Data

weighted impact noise reduction as per ISO 717-2
 $\Delta L_w \geq 35$ dB

Mean value for dynamic rigidity as per DIN EN 29052-1
 $s' t \leq 12$ MN/m³

Thermal conductivity

$\lambda = 0.063$ W/mK

Thermal resistance

$R = 0.289$ m²K/W

Fire classification according to DIN 4102/DIN EN 13501-1

Class E (B 2)

Maximum traffic load

up to 3,000 kg/m² (30 kN/m²)

Compressibility as per DIN EN 12431

$c \leq 2.0$ mm

General Technical Approval: Z-23.21-1935

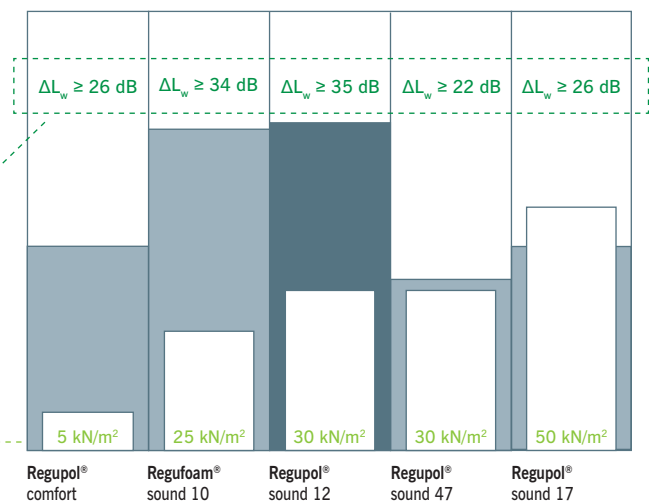
European Technical Approval: ETA-15/0727

Mean value of impact noise reduction according to German Technical Approval

Maximum traffic load

Compressive stress (N/mm ²)	Settlement (mm)	Bedding modules (MN/m ³)
0.005	2.1	2.8
0.010	3.2	3.1
0.020	4.5	4.5
0.025	4.9	5.1
0.030	5.3	5.7
0.020	4.7	4.3

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 12 as per ISO 10140

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

Description of the test object

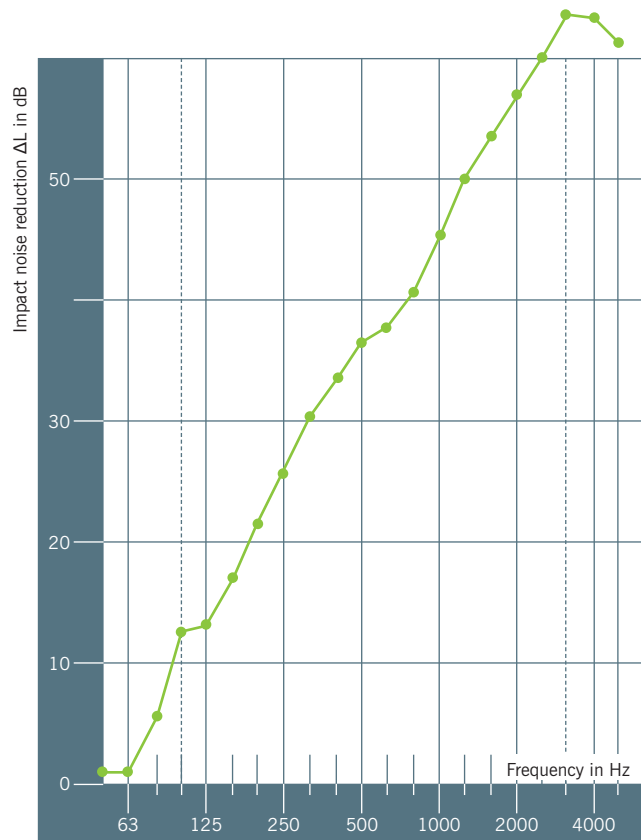
- 140 mm reinforced concrete floor
- 17 mm **Regupol® sound 12** screed insulation mat
- 90 mm screed
- total thickness 247 mm

Mass per unit area: 185 kg/m²
 Test surface area: 4.86 x 5.06 = 24.60 m²
 Volume of test rooms: V_S = 78.50 m³,
 V_E = 70.70 m³
 Air temperature in test rooms: 19 °C
 Water curing: 21 days

Impact noise reduction improvement as per ISO 717-2

$\Delta L_w \geq 36$ dB C_{L,Δ} = -13 dB C_{L,r} = 2 dB

The results refer only to the tested structure.



Qualification test for DIN 4109 on 11.02.2014

Publication of the results is authorised by MFWA Leipzig GmbH
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We will be pleased to send you the complete test report no.
 PB 4.2/13-445-3 upon request.

Frequenz f Hz	L _{n,0} raw ceiling 1/3 octave dB	ΔL 1/3 octave dB
100	63.7	12.7
125	67.5	13.9
160	65.8	17.0
200	66.2	21.5
250	67.6	25.7
315	67.7	30.3
400	67.5	33.5
500	68.1	36.5
630	68.3	37.9
800	68.7	40.7
1,000	68.9	45.3
1,250	69.0	50.0
1,600	71.0	53.7
2,000	70.3	57.0
2,500	70.5	60.0
3,150	70.8	63.7

Regupol® sound 47

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

Material

PU-bonded rubber fibres

Standard delivery form

in rolls of 14.95 m² each, 13,000 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
 $\Delta L_w \geq 22$ dB

Mean value for dynamic rigidity as per DIN EN 29052-1
 $s' t \leq 47$ MN/m³

Thermal conductivity

$\lambda = 0.075$ W/mK

Thermal resistance

$R = 0.1031$ m²K/W

Fire classification according to DIN 4102/DIN EN 13501-1

Class E (B 2)

Maximum traffic load

up to 3,000 kg/m² (30 kN/m²)

Compressibility as per DIN EN 12431

$c \leq 1.0$ mm

General Technical Approval: Z-23.21-1694

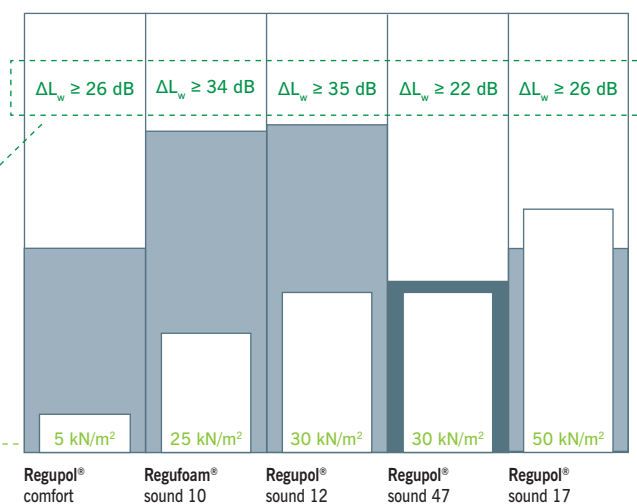
European Technical Approval: ETA-10/0056

Mean value of impact noise reduction according to German Technical Approval

Maximum traffic load

Compressive stress (N/mm ²)	Settlement (mm)	Bedding modulus (MN/m ²)
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 10140

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

Description of the test object

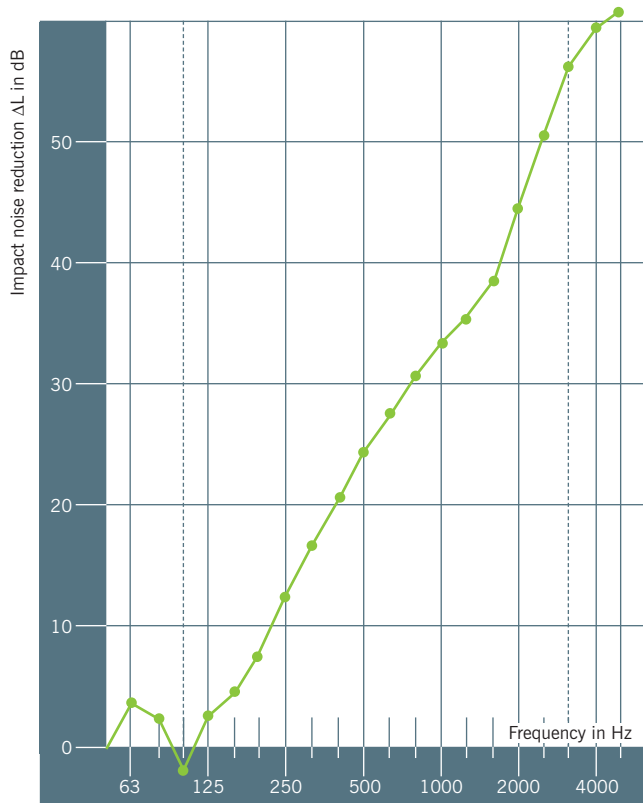
- 140 mm reinforced concrete floor
- 8 mm **Regupol® sound 47** screed insulation mat
- 0.2 mm PE-foil
- 75 mm screed
- total thickness 223 mm

Mass per unit area: 142 kg/m²
 Test surface area: 4.67 x 4.30 = 20.10 m²
 Volume of test rooms: V_s = 64.50 m³
 V_E = 58.90 m³
 Air temperature in test rooms: 24 °C
 Water curing: 21 days

Impact noise reduction improvement as per ISO 717-2

$\Delta L_w \geq 23$ dB C_{L,Δ} = -13 dB C_{L,r} = 2 dB

The results refer only to the tested structure.



Qualification test for DIN 4109 on 23.07.2013

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We will be pleased to send you the complete test report no. PB 4.2/13-189-2 upon request.

Frequency f Hz	L _{n,0} raw ceiling 1/3 octave dB	ΔL 1/3 octave dB
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
1,000	68.7	33.1
1,250	68.7	35.3
1,600	69.2	38.8
2,000	69.3	44.4
2,500	69.9	50.3
3,150	70.9	56.2

Regupol® sound 17

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

Material

PU-bonded rubber fibres

Standard delivery form

1,200 x 1,000 x 17 mm, 60 m² per pallet

Temperature resistance

from -20 °C to +80 °C

Colour

anthracite

Upper side laminated with green aluminium foil.



Regupol® sound 17, dimpled on underside

Physical Data

weighted impact noise reduction as per ISO 717-2
 $\Delta L_w \geq 26$ dB

Mean value for dynamic rigidity as per DIN EN 29052-1
 $s' t \leq 17$ MN/m³

Thermal conductivity

$\lambda = 0.08$ W/mK

Thermal resistance

$R = 0.2162$ m²K/W

Fire classification according to DIN 4102/DIN EN 13501-1

Class E (B 2)

Maximum traffic load

up to 5,000 kg/m² (50 kN/m²)

Compressibility as per DIN EN 12431

$c \leq 2.0$ mm

General Technical Approval: Z-23.21-1741

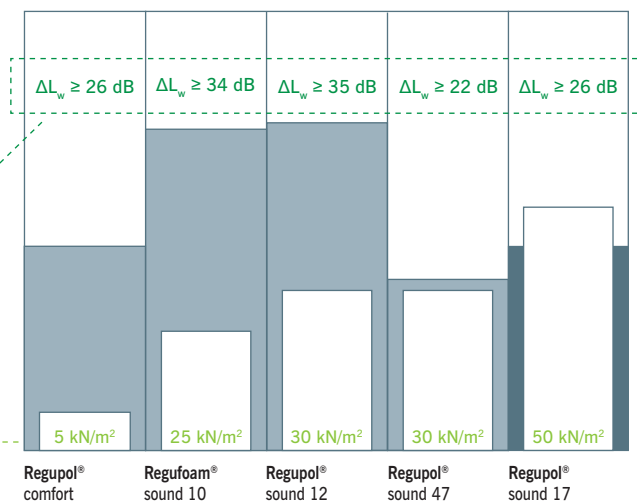
European Technical Approval: ETA-10/0057

Mean value of impact noise reduction according to German Technical Approval

Maximum traffic load

Compressive stress (N/mm ²)	Settlement (mm)	Bedding modulus (MN/m ²)
0.0025	0	0
0.0098	1.4	7.0
0.0196	2.6	8.0
0.0343	3.9	9.0
0.0490	4.7	10.0
0.0196	3.2	6.0

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 17 as per ISO 10140

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

Description of the test object

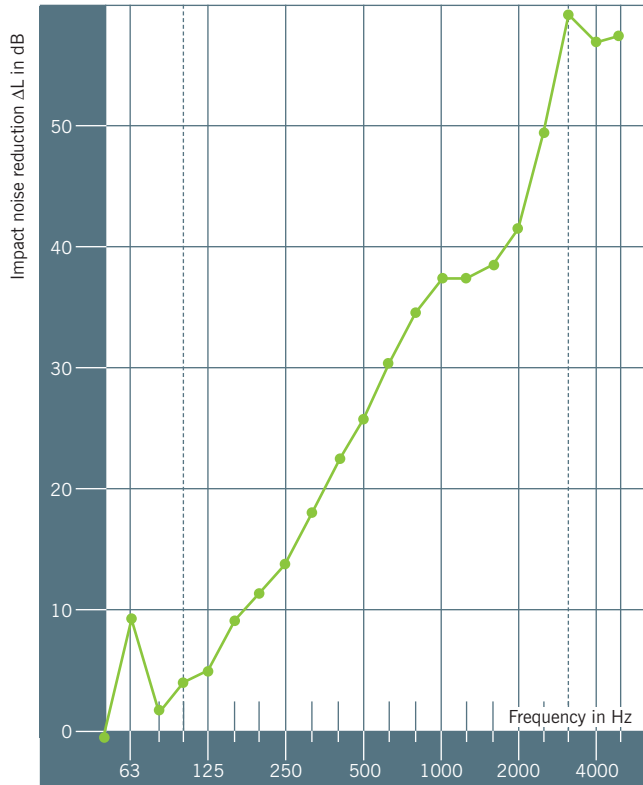
- 140 mm reinforced concrete floor
- 17 mm **Regupol® sound 17** screed insulation mat
- 115 mm screed
- total thickness 272 mm

Mass per unit area: 220 kg/m²
 Test surface area: 4.67 x 4.30 = 20.10 m²
 Volume of test rooms: V_S = 64.50 m³
 V_E = 58.90 m³
 Air temperature in test rooms: 18 °C
 Water curing: 21 days

Impact noise reduction improvement as per ISO 717-2

$\Delta L_w \geq 27 \text{ dB}$ $C_{i,\Delta} = -13 \text{ dB}$ $C_{i,r} = 2 \text{ dB}$

The results refer only to the tested structure.



Qualification test I for DIN 4109 on 30.01.2014

Publication of the results is authorised by MFWA Leipzig GmbH
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We will be pleased to send you the complete test report no.
 PB 4.2/13-444-3 upon request.

Frequency f Hz	L _{n,0} 1/3 octave dB	ΔL 1/3 octave dB
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
1,000	68.8	37.4
1,250	69.2	37.4
1,600	69.4	38.4
2,000	69.8	41.7
2,500	70.3	49.5
3,150	71.6	59.1

Regupol® comfort

Largely moisture-, age- and deformation-resistant, permanently elastic, but protect against large volumes of water.

Material

PU-bonded elastomers

Standard delivery form

in rolls of 14.95 m² each, 13,000 x 1,150 x 8 mm

Temperature resistance

from -20 °C to +80 °C

Colour

grey, light and dark particles



Regupol® comfort, dimpled on underside

Physical Data

weighted impact noise reduction as per ISO 717-2
 $\Delta L_w \geq 26$ dB

Mean value for dynamic rigidity as per DIN EN 29052-1
 $s' t \leq 15$ MN/m³

Fire classification according to DIN EN ISO 11925-2/
 DIN EN 13501-1
 Class E (B 2)

Maximum traffic load

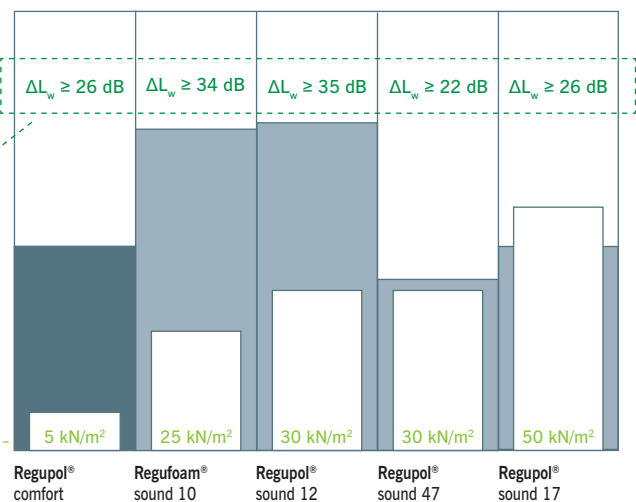
up to 500 kg/m² (5 kN/m²)

Compressibility as per DIN EN 12431

$c \leq 0.8$ mm

Mean value of impact noise reduction

Maximum traffic load



Impact Noise Reduction Regupol® comfort as per ISO 10140

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

Description of the test object

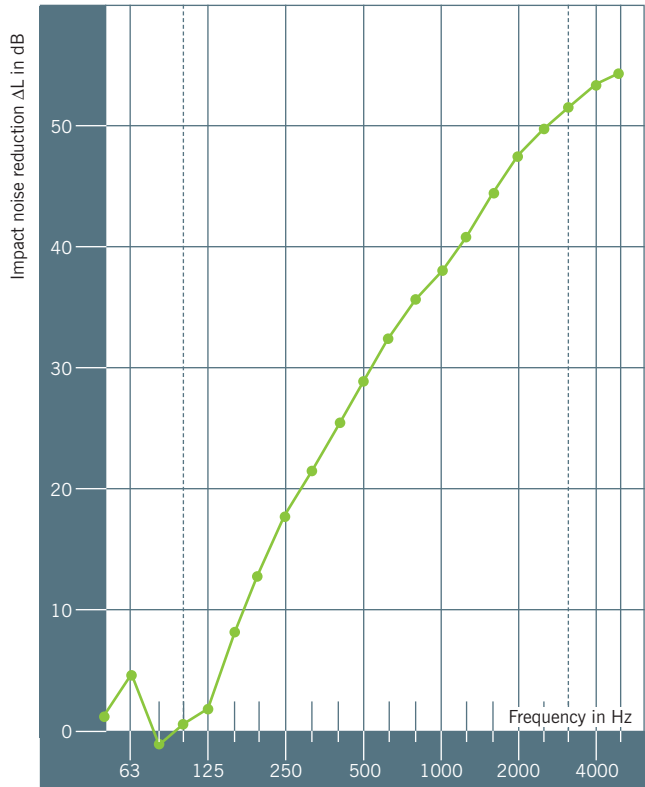
- 140 mm reinforced concrete floor
- 8 mm **Regupol® comfort** screed insulation mat
- 0.20 mm PE-foil
- 90 mm screed
- total thickness 238 mm

Mass per unit area: 187.6 kg/m²
 Test surface area: 4.86 x 5.06 = 24.6 m²
 Volume of test rooms: V_s = 78.5 m³,
 V_r = 70.7 m³
 Air temperature in test rooms: 19 °C
 Water curing: > 33 days

Impact noise reduction improvement as per ISO 717-2

$\Delta L_w \geq 26 \text{ dB}$ C_{i,Δ} = -14 dB C_{i,r} = 3 dB

The results refer only to the tested structure.



Qualification test for DIN 4109 on 07.01.2014

Publication of the results is authorised by MFWA Leipzig GmbH
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We will be pleased to send you the complete test report no. PB 4.2/ 13-430-1 upon request.

Frequency f Hz	L _{n,0} raw ceiling 1/3 octave dB	ΔL 1/3 octave dB
100	65.6	1.0
125	68.2	2.2
160	65.2	8.1
200	65.6	12.8
250	66.9	17.8
315	67.2	21.3
400	67.6	25.3
500	67.7	28.9
630	68.0	32.4
800	68.5	35.7
1,000	68.6	38.0
1,250	69.1	40.8
1,600	71.1	44.4
2,000	70.3	47.7
2,500	70.3	49.8
3,150	70.6	51.8