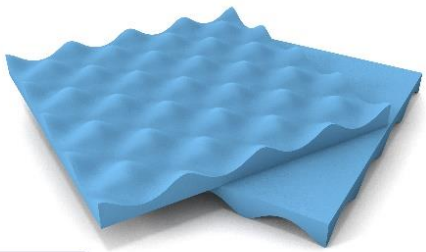
TECHNICAL DATA

REGUFOAM SOUND 10

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



Material
- Mixed-cell polyurethane foam
- Dimpled profile on the underside

Weight
2.3 kg/m²

Dimensions
Length: 1,100 mm, Width: 1,500 mm, Thickness: 17 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-17/1026
Cradle to Cradle Certified® is a registered trademark of the Cradle to Cradle Products Innovation Institute (C2CPII).

Acoustical Performance*	**Standard**	**Result**	**Comment**
95 mm cement screed, **REGUFOAM sound 10**, 140 mm concrete slab	DIN EN ISO 10140-3 DIN EN ISO 717-2	$\Delta L_w \geq 34$ dB	according to ETA: $\Delta L_w \geq 34$ dB PB4.2/17-188-1

*Assembly from top to bottom

Material properties	**Standard**	**Result**
Maximum traffic load		25 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 = 0.05 W/(mK)
Thermal resistance	DIN EN 12667	R = 0.25 (m²K)/W
Temperature resistance		-20 to +60° C

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

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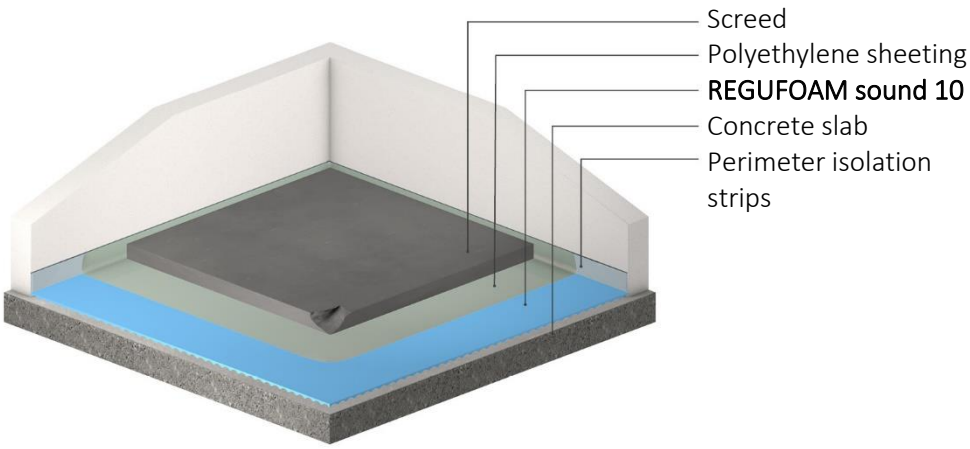
Moisture behaviour	Standard	Result
Sensitivity to moisture		To be protected from moisture during storage, transport and installation

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]
0.005	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
0.015	6.2	2.4

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

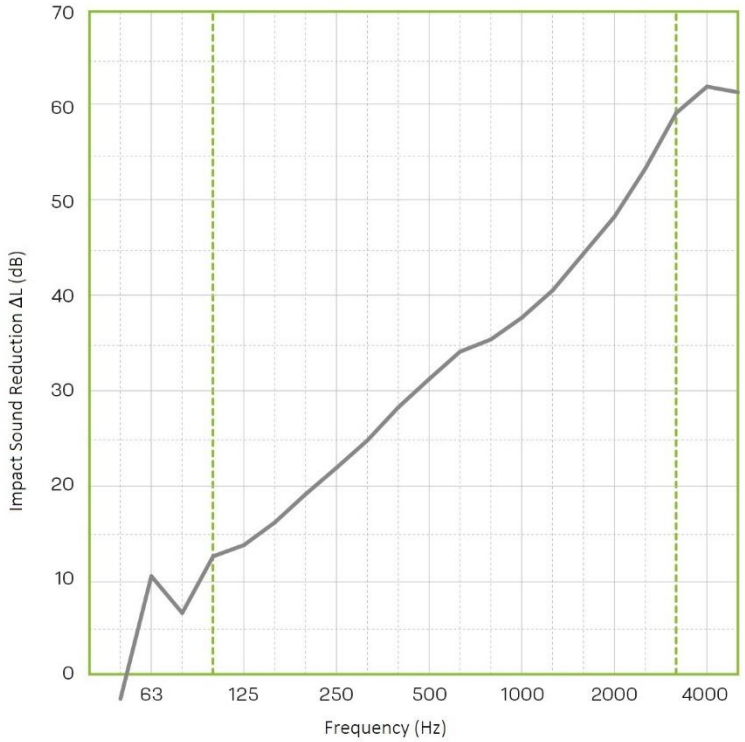


For more assemblies and test reports, please visit www.regupol.com

TECHNICAL DATA

REGUFOAM SOUND 10

Detailed test results for impact sound reduction
Test report PB 4.2/13-445-1



Assembly
95 mm Cement screed CT-C25-F4, 204 kg/m²
Polyethylene sheeting
17 mm REGUFOAM sound 10
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 PB4.2/13-445-1 dtd. 19/12/2013 is available upon request.

Frequency [Hz]	**$L_{n,0}$** 1/3 octave [dB]	**ΔL** 1/3 octave [dB]
50	57.5	-2.6
63	64.6	10.4
80	59.1	6.5
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
1000	68.9	37.8
1250	69.2	40.7
1600	69.5	44.6
2000	69.9	48.5
2500	70.4	53.6
3150	71.8	59.5
4000	70.7	62.3
5000	68.5	61.7

Impact Sound Reduction
as per ISO 717-2

ΔL_w = 35 dB

$C_{I,\Delta}$ = -12 dB

$C_{I,r}$ = 1 dB

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