

Reduction of impact sound pressure level according to DIN EN ISO 10140-1,3:2021-09

Laboratory measurement of the reduction of transmitted impact sound by floor coverings on a reference floor

Evaluation according DIN EN ISO 717-2:2021-05

Measurement uncertainty according DIN EN ISO 12999-1:2021-04



Construction: a) Lamelparket 15 mm
(from top to bottom) Redupax
PE-Film

Test floor: 14 cm concrete slab floor (4,27 m x 4,45 m) with an area-related mass $m' \approx 322 \text{ kg/m}^2$ (no ceiling)

Remarks: -

Installation: by the client

Receiving room:

Volume: 53,6 m³

Sending room:

Volume: 52,1 m³

Air temperature: 19,8 °C

Relative air humidity: 46,4 %

Boundary conditions:

Tapping Machine positions: 4

Microphone positions: continuously moved

Category / sample area: II / ~10 m²

Type of reference floor: heavyweight reference floor

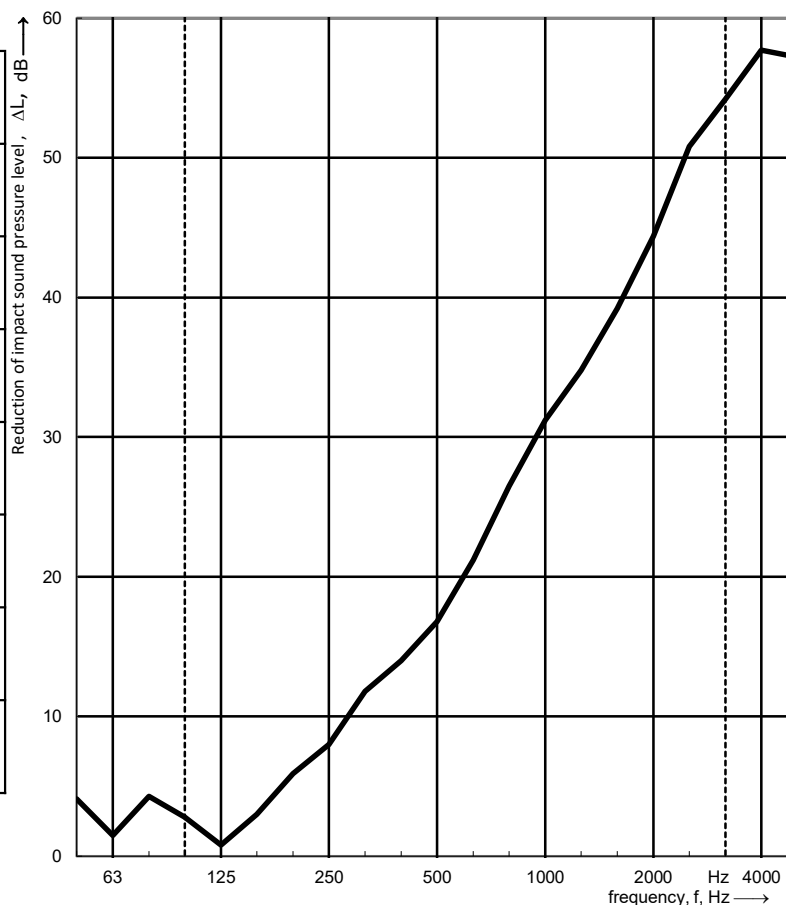
----- Frequency range for rating according to DIN EN ISO 717-2:2021-05

Date of test: 24.02.2026

Frequency f [Hz]	$L_{n,0}$ 1/3 oct. [dB]	ΔL 1/3 oct. [dB]	U 1/3 oct. [dB]
50	57,6	4,1	$\pm 1,4$
63	62,2	1,5	$\pm 1,3$
80	57,2	4,3 ³	$\pm 1,2$
100	59,1	2,8	$\pm 1,1$
125	70,4	0,8	$\pm 1,0$
160	65,4	3,0	$\pm 1,0$
200	66,2	5,9	$\pm 1,0$
250	63,8	8,0	$\pm 1,0$
315	66,4	11,8	$\pm 1,0$
400	64,8	14,0	$\pm 1,1$
500	64,6	16,8	$\pm 1,2$
630	65,6	21,2	$\pm 1,3$
800	65,9	26,5	$\pm 1,6$
1000	67,0	31,2	$\pm 1,9$
1250	67,8	34,8	$\pm 2,2$
1600	67,7	39,2	$\pm 2,5$
2000	67,9	44,4	$\pm 2,8$
2500	67,6	50,8 ³	$\pm 3,2$
3150	67,9	54,2 ³	$\pm 3,6$
4000	66,5	57,7 ³	$\pm 4,0$
5000	62,4	57,2 ¹	$\pm 4,4$

¹ Measurement limit reached

³ correction



Evaluation according DIN EN ISO 717-2:2021-05

$\Delta L_w = 22 \text{ dB}$ $C_{l,\Delta} = -12 \text{ dB}$

$\Delta L_{lin} = 10 \text{ dB}$ $C_{l,r} = 1 \text{ dB}$

Measurement uncertainty according DIN EN ISO 12999-1:2021-04

$\Delta L_w = (22,0 \pm 1,1) \text{ dB}$ ($k = 1$, two-sided)

These results are based on a test performed with an artificial source under laboratory conditions (engineering method) with the specified reference floor.

Annex TS - ΔL_w

Test report no. A-2026-040-01

a) information provided by the client, k) Modification

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