

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) Klik PVC 4,5mm
(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

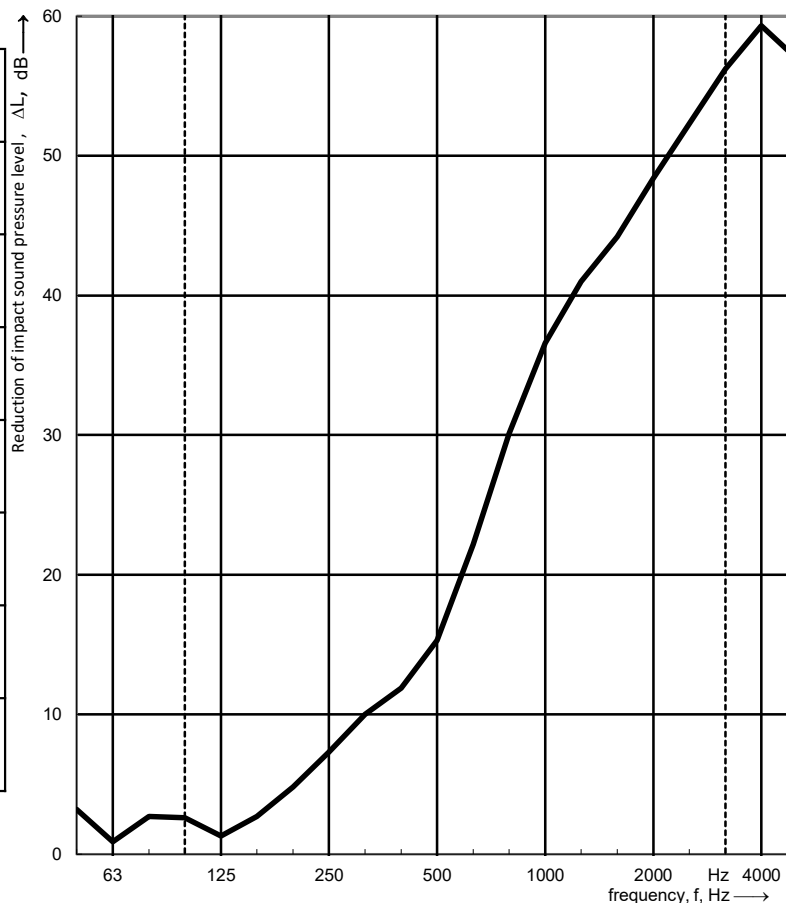
----- Frequency range for rating according to DIN EN ISO 717-2:2021-05

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	3,2	± 1,4
63	62,2	0,9	± 1,3
80	57,2	2,7	± 1,2
100	59,1	2,6	± 1,1
125	70,4	1,3	± 1,0
160	65,4	2,7	± 1,0
200	66,2	4,8	± 1,0
250	63,8	7,3	± 1,0
315	66,4	10,0	± 1,0
400	64,8	11,9	± 1,1
500	64,6	15,3	± 1,2
630	65,6	22,2	± 1,3
800	65,9	30,1	± 1,6
1000	67,0	36,6	± 1,9
1250	67,8	41,0 ³	± 2,2
1600	67,7	44,2 ³	± 2,5
2000	67,9	48,4 ³	± 2,8
2500	67,6	52,3 ¹	± 3,2
3150	67,9	56,2 ¹	± 3,6
4000	66,5	59,3 ¹	± 4,0
5000	62,4	56,9 ¹	± 4,4

¹ Measurement limit reached

³ correction



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

$\Delta L_w = 21 \text{ dB}$ $C_{i,\Delta} = -11 \text{ dB}$

$\Delta L_{in} = 10 \text{ dB}$ $C_{i,r} = 0 \text{ dB}$

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

$\Delta L_w = (21,3 \pm 1,1) \text{ dB}$ ($k = 1$, 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-2026-041-01

a) information provided by the client, k) Modification