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) (from top to bottom)	Klik laminaat 8mm Redupax PE-foil
Test floor:	14 cm concrete slab floor (4,27 m x 4,45 m) with an area-related mass m' ≈ 322 kg/m² (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	%

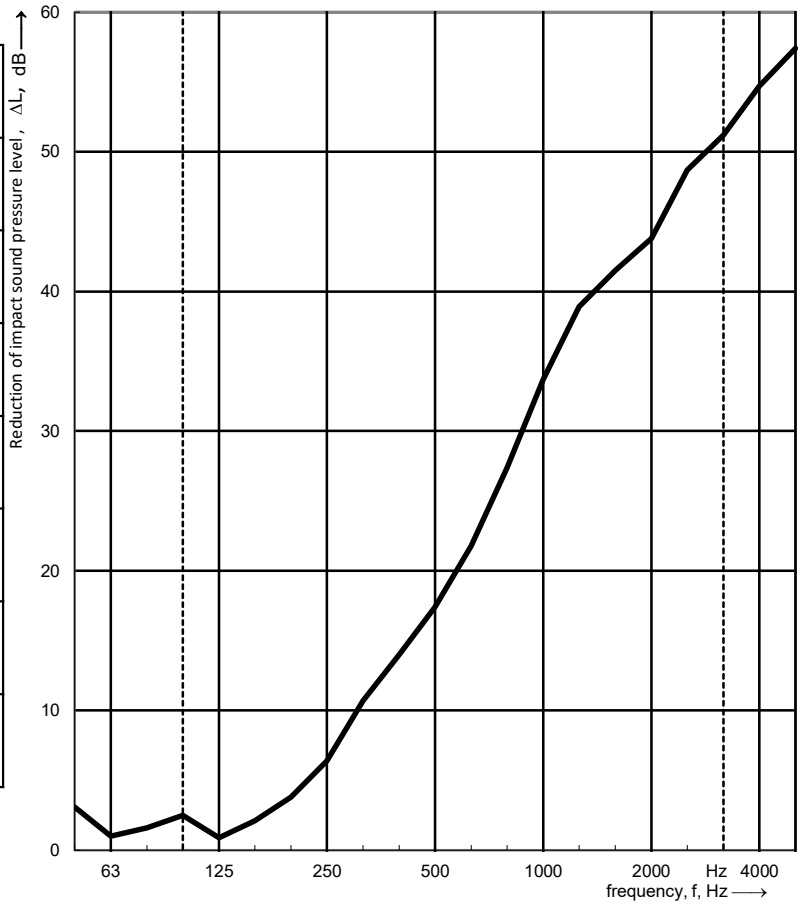
Boundary conditions:	
Tapping Machine positions:	4
Microphone positions:	continuously moved
Category / sample area:	II / 10 m²
Type of reference floor:	heavyweight reference floor

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	3,1	± 1,4
63	62,2	1,0	± 1,3
80	57,2	1,6	± 1,2
100	59,1	2,5	± 1,1
125	70,4	0,9	± 1,0
160	65,4	2,1	± 1,0
200	66,2	3,8	± 1,0
250	63,8	6,4	± 1,0
315	66,4	10,7	± 1,0
400	64,8	14,0	± 1,1
500	64,6	17,4	± 1,2
630	65,6	21,8	± 1,3
800	65,9	27,4	± 1,6
1000	67,0	33,7	± 1,9
1250	67,8	38,9	± 2,2
1600	67,7	41,5	± 2,5
2000	67,9	43,8	± 2,8
2500	67,6	48,7 [3]	± 3,2
3150	67,9	51,2 [3]	± 3,6
4000	66,5	54,7 [3]	± 4,0
5000	62,4	57,4 [1]	± 4,4

[1] Measurement limit reached

[3] correction



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

ΔL_w = 21 dB $C_{I,\Delta}$ = -11 dB

ΔL_{lin} = 10 dB $C_{I,r}$ = 0 dB

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

ΔL_w = (21,0 ± 1,1) 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 - ΔLw

Test report no. A-2026-037-01