

Impact sound insulation according ISO 10140-1

Annex TS - ΔL_w

Laboratory measurements of the reduction of transmitted impact noise by floor coverings on a heavyweight reference floor
Annex TS – Impact sound insulation

Date of test: 18-9-2023

Construction:

(from top to bottom) Carpet flooring 6mm
Comfort Green 6mm

Remarks:

Receiving room:

Volume: 90,0 m³

Source room:

Volume: 50,0 m³

Air temperature: 21,9 °C

Relative air humidity: 73,0 %

Boundary conditions:

Tapping Machine positions: 4

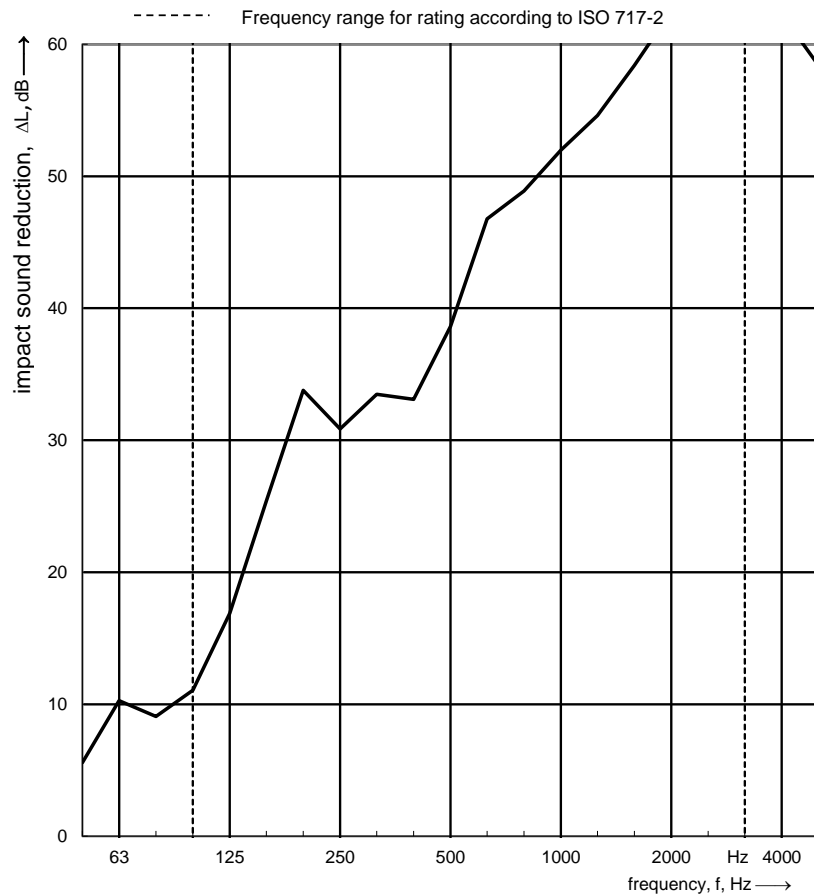
Microphone positions: 1

Category / sample area: II

Type of reference floor: Heavyweight

Frequency f [Hz]	$L_{n,0}^*$ 1/3 oct. [dB]	ΔL 1/3 oct. [dB]
50	56,7	5,6
63	60,4	10,3
80	56,9	9,1
100	56,6	11,1
125	55,5	16,9
160	48,6	25,4
200	39,1	33,8
250	41,5	30,8
315	39,9	33,5
400	41,6	33,1
500	39,3	38,6
630	32,0	46,8
800	30,1	48,9
1000	26,7	52,0
1250	23,8	54,6
1600	19,6	58,4
2000	14,9	62,5
2500	13,4	63,3
3150	11,1	64,0
4000	10,5	62,3
5000	10,5	58,4

*) informative, without room correction



Evaluation according to ISO 717-2

$\Delta L_w = 40$ dB

$C_{l,\Delta} = -15$ dB

$C_{l,r} = 4$ dB

$\Delta L_{lin} = 25$ dB

The results are based on measurements, which were performed under laboratory conditions with artificial excitation (standard procedure).

Test report no.:

UF_2715_13_Comfort Green 6mm_Carpet Flooring 6mm

