

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: 22-5-2024

Construction:
(from top to bottom) Carpet 6mm
Comfort Flex 6.5mm

Remarks:

Receiving room:

Volume: 51,2 m³

Source room:

Volume: 100,0 m³

Air temperature: 21,0 °C

Relative air humidity: 61,0 %

Boundary conditions:

Tapping Machine positions: 4

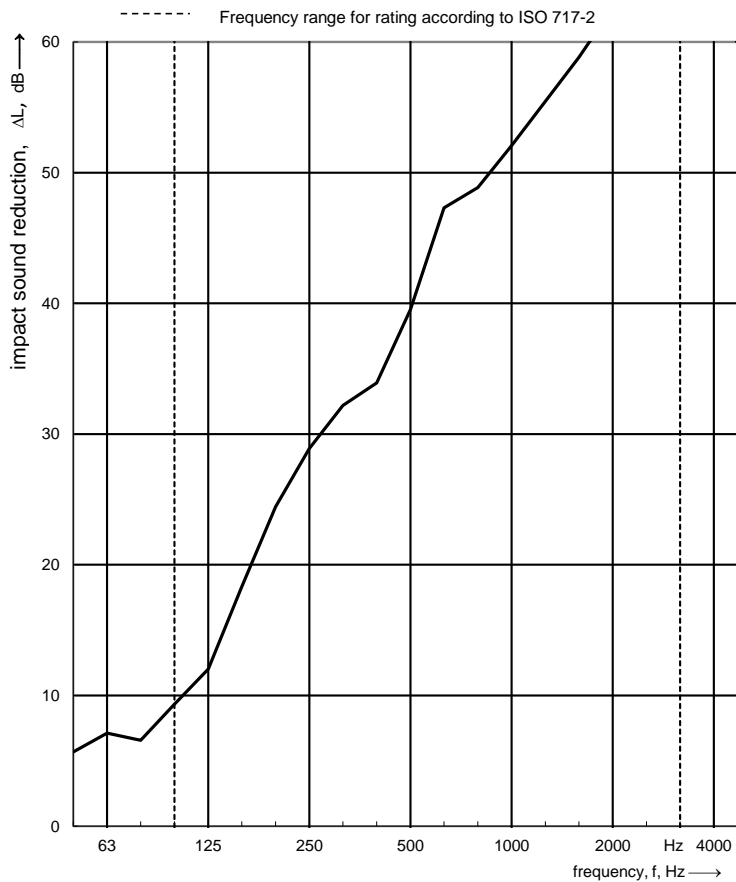
Microphone positions: 4

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	58,0	5,7
63	61,5	7,1
80	57,7	6,6
100	59,5	9,3
125	60,9	12,0
160	55,2	18,3
200	48,5	24,4
250	44,6	28,9
315	42,0	32,2
400	42,2	33,9
500	39,5	39,5
630	32,2	47,3
800	30,6	48,9
1000	27,2	52,1
1250	23,7	55,5
1600	19,9	58,8
2000	15,6	62,6
2500	13,3	64,3
3150	11,1	64,9
4000	10,7	62,8
5000	10,5	58,8

*) informative, without room correction



Evaluation according to ISO 717-2

$\Delta L_w = 36$ dB

$\Delta L_{in} = 22$ dB

$C_{i,\Delta} = -14$ dB

$C_{i,r} = 3$ dB

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

Test report no.: UF_2724_02_Comfort Flex 6,5mm

