

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: 3-10-2023

Construction: No covering
(from top to bottom) Comfort Flex 9mm

Remarks:

Receiving room:

Volume: 90,0 m³

Source room:

Volume: 50,0 m³

Air temperature: 19,3 °C

Relative air humidity: 70,0 %

Boundary conditions:

Tapping Machine positions: 3

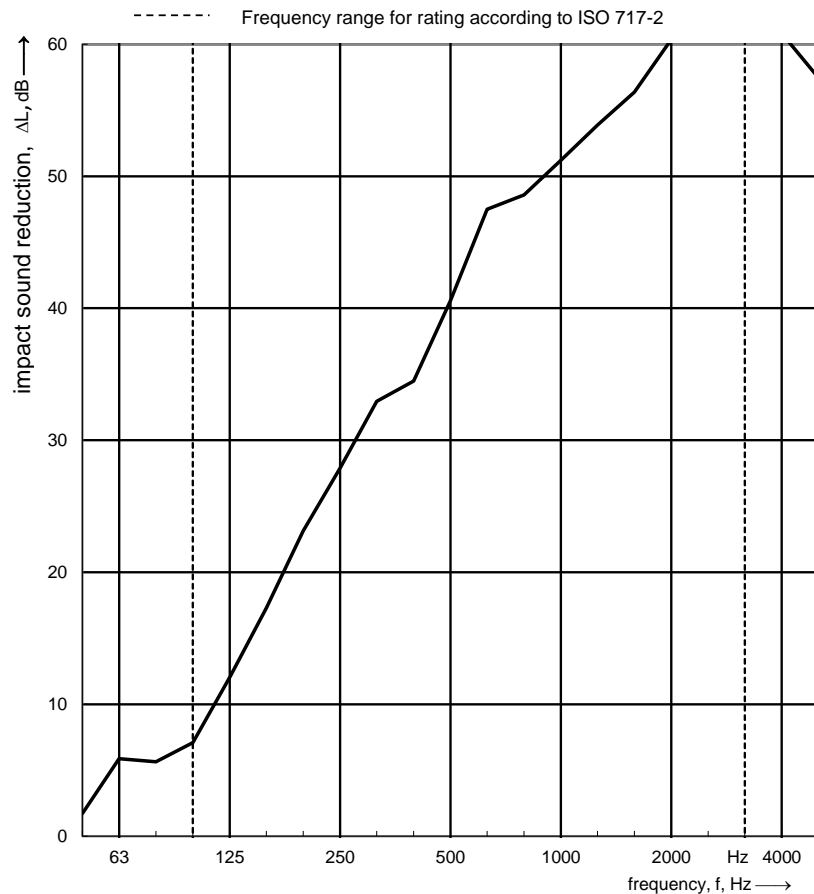
Microphone positions: 1

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	59,4	1,7
63	63,9	5,9
80	59,7	5,6
100	60,1	7,1
125	60,9	12,0
160	56,9	17,3
200	50,1	23,1
250	44,7	27,9
315	40,4	32,9
400	40,6	34,5
500	37,8	40,6
630	31,5	47,5
800	30,6	48,6
1000	27,8	51,2
1250	24,7	53,9
1600	21,8	56,4
2000	17,4	60,4
2500	16,0	61,1
3150	14,7	60,9
4000	12,5	60,8
5000	12,1	57,5

*) informative, without room correction



Evaluation according to ISO 717-2

$\Delta L_w = 35$ dB

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

$C_{l,r} = 4$ dB

$\Delta L_{lin} = 20$ dB

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

Test report no.: UF_Comfort Flex 9mm

