Impact sound insulation according ISO 10140-1

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: 1-2-2024

Construction:
(from top to bottom)

Carpet Flooring 6mm
Comfort Flex 9mm

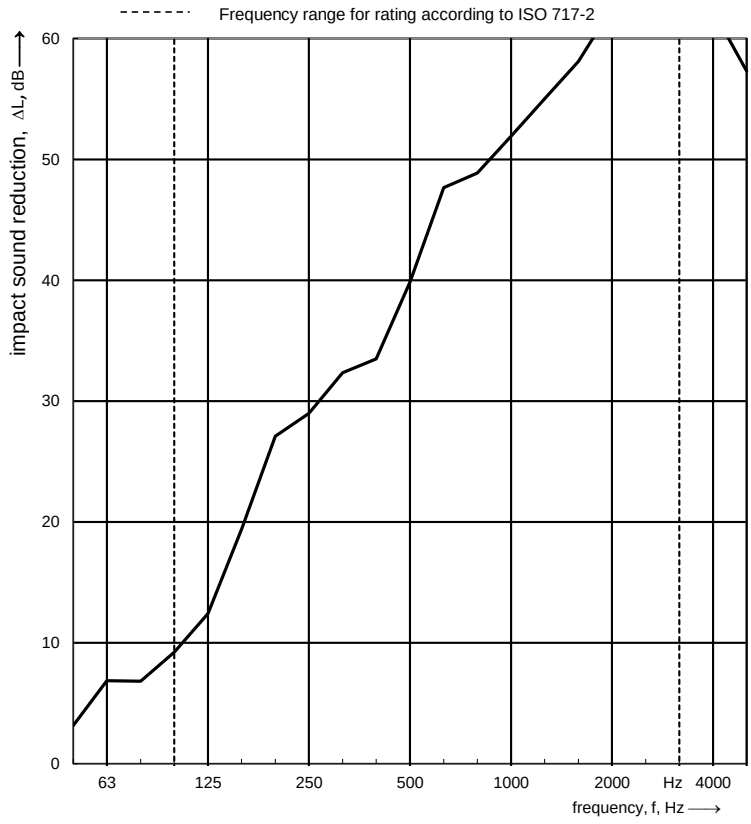
Remarks:

Receiving room:		
Volume:	50,0	m³
Source room:		
Volume:	90,0	m³
Air temperature:	17,5	°C
Relative air humidity:	47,7	%

Boundary conditions:	
Tapping Machine positions:	4
Microphone positions:	1
Category / sample area:	
Type of reference floor:	Heavyweight

Frequency f 1/3 oct. [Hz]	$L_{n,0}$* 1/3 oct. [dB]	ΔL 1/3 oct. [dB]
50	59,1	3,2
63	64,0	6,9
80	58,1	6,8
100	59,3	9,2
125	60,2	12,4
160	55,0	19,4
200	47,7	27,1
250	44,9	29,0
315	42,2	32,3
400	43,2	33,5
500	39,3	39,9
630	32,4	47,7
800	31,1	48,9
1000	27,8	51,9
1250	24,4	55,0
1600	20,8	58,1
2000	16,1	62,5
2500	13,9	63,8
3150	11,9	64,2
4000	11,2	62,3
5000	11,9	57,3

*) informative, without room correction



Evaluation according to ISO 717-2

ΔL_w = 36 dB $C_{I,\Delta}$ = -14 dB $C_{I,r}$ = 3 dB

ΔL_{lin} = 22 dB

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

Test report no.: UF_2719_Comfort Flex 9mm_carpet flooring 6mm

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