

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: 22-11-2024

Construction:
(from top to bottom) Dual CP 12mm
Herotec Tempus Green 30mm
Cocofloor 4mm

Remarks: 1,20 X 1,20 m²

Receiving room:

Volume: 51,2 m³

Source room:

Volume: 100,0 m³

Air temperature: 19,0 °C

Relative air humidity: 55,2 %

Boundary conditions:

Tapping Machine positions: 4

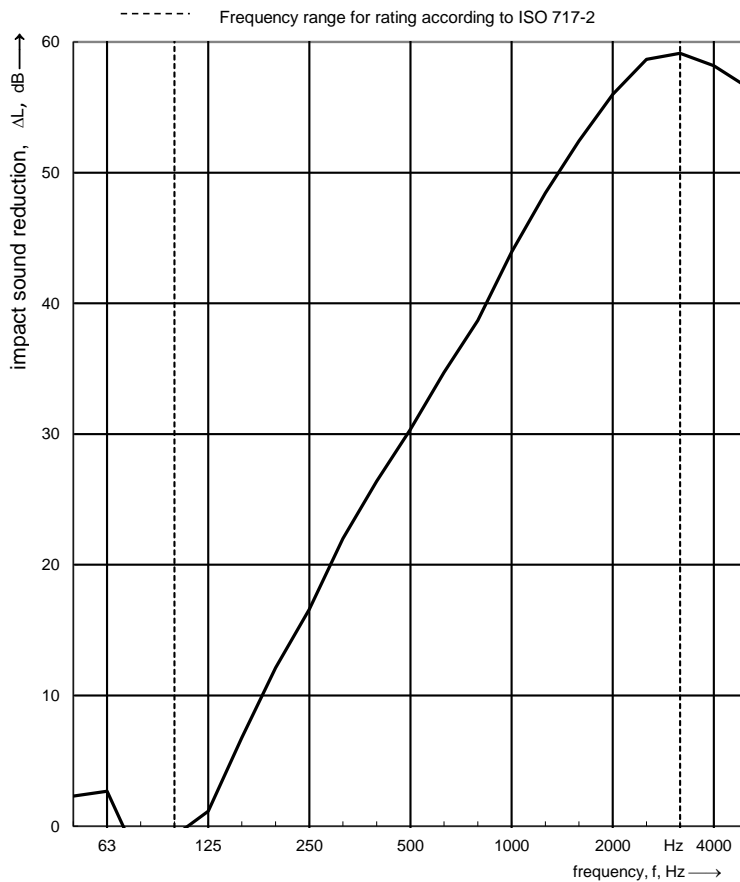
Microphone positions: 1

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	59,1	2,3
63	64,2	2,7
80	66,0	-2,9
100	71,7	-0,7
125	71,7	1,1
160	68,6	6,8
200	61,3	12,1
250	57,0	16,6
315	53,0	22,0
400	50,5	26,4
500	48,9	30,4
630	45,3	34,7
800	41,3	38,7
1000	35,9	43,9
1250	31,0	48,5
1600	26,6	52,4
2000	22,4	56,0
2500	18,9	58,7
3150	16,7	59,1
4000	15,0	58,2
5000	11,9	56,5

*) informative, without room correction



Evaluation according to ISO 717-2

ΔL_w = 25 dB

ΔL_{in} = 11 dB

C_{1,Δ} = -14 dB

C_{1,r} = 3 dB

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

Test report no.: UF_2733_30mm Tempus Green 30mm_

