

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: 22.06.2020

Construction: click laminaat 8 mm
(from top to bottom) heatfoil 1,2 mm
PE-foil

Remarks: -

Receiving room:

Volume: 53,6 m³

Source room:

Volume: 52,1 m³

Air temperature: 20,1 °C

Relative air humidity: 58,0 %

Boundary conditions:

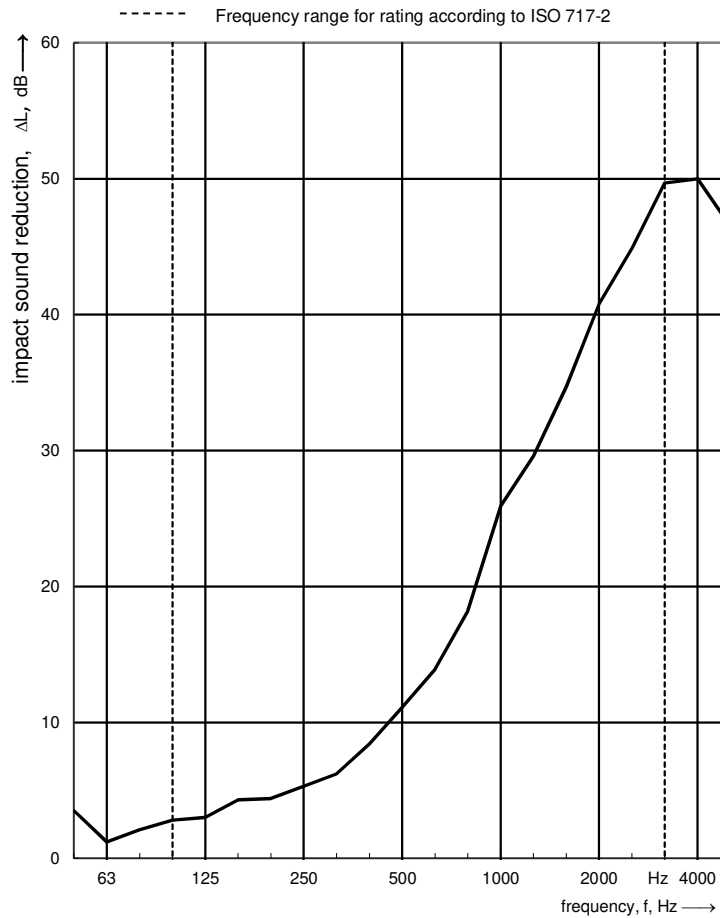
Tapping Machine positions: 4

Microphone positions: 4

Category / sample area: II / ~ 10 m²

Type of reference floor: Heavyweight

Frequency f [Hz]	$L_{n,0}$ 1/3 oct. [dB]	ΔL 1/3 oct. [dB]
50	59,0	3,5
63	64,3	1,2
80	65,1	2,1
100	58,7	2,8
125	63,3	3,0
160	61,4	4,3
200	65,7	4,4
250	71,8	5,3
315	66,8	6,2
400	68,8	8,4
500	68,0	11,1
630	68,4	13,9
800	69,3	18,2
1000	69,5	25,9
1250	71,4	29,6
1600	70,9	34,7
2000	71,2	40,8
2500	70,3	44,9
3150	70,2	49,7
4000	69,3	50,0
5000	65,3	46,5



Evaluation according to ISO 717-2

$\Delta L_w = 20$ dB

$C_{i,\Delta} = -10$ dB

$C_{i,r} = -1$ dB

$\Delta L_{in} = 10$ dB

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

Test report no.:

A-2020-234-01

