

# Impact sound insulation according ISO 10140-1

Annex TS -  $\Delta L_w$

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: 1-2-2024

Construction:

(from top to bottom) no covering  
Comfort Green 6mm

Remarks:

Receiving room:

Volume: 50,0 m<sup>3</sup>

Source room:

Volume: 90,0 m<sup>3</sup>

Air temperature: 17,5 °C

Relative air humidity: 47,7 %

Boundary conditions:

Tapping Machine positions: 4

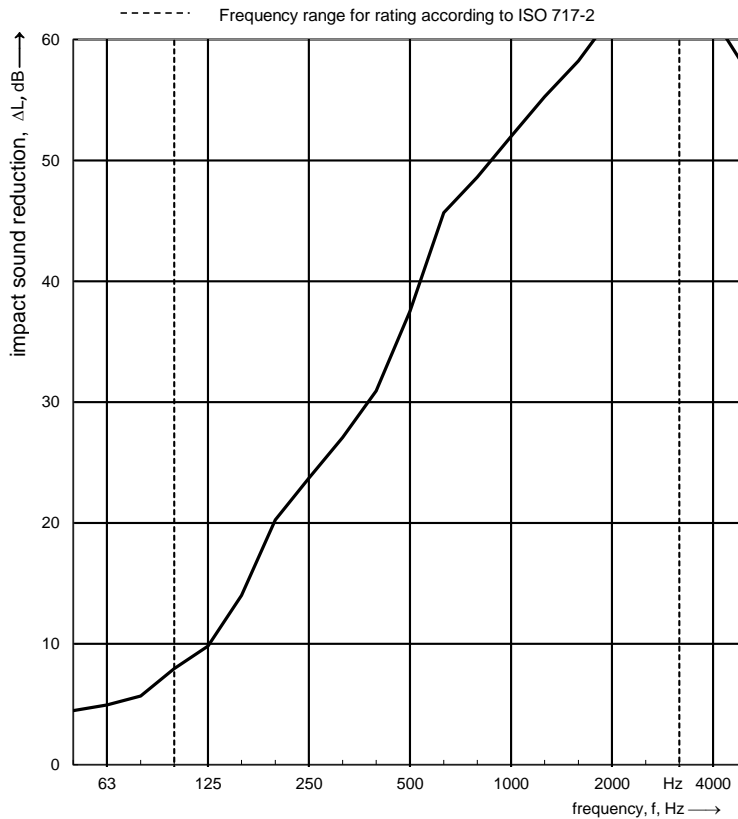
Microphone positions: 1

Category / sample area:

Type of reference floor: Heavyweight

Frequency f [Hz]	$L_{n,0}^*$ 1/3 oct. [dB]	$\Delta L$ 1/3 oct. [dB]
50	57,8	4,5
63	65,9	4,9
80	59,2	5,7
100	60,6	8,0
125	62,8	9,8
160	60,4	14,0
200	54,6	20,2
250	50,2	23,7
315	47,5	27,1
400	45,8	30,9
500	41,6	37,5
630	34,3	45,7
800	31,4	48,6
1000	27,8	52,0
1250	24,2	55,3
1600	20,7	58,2
2000	16,7	62,0
2500	15,0	62,8
3150	12,7	63,4
4000	11,6	61,9
5000	11,7	57,4

\*) informative, without room correction



Evaluation according to ISO 717-2

$\Delta L_w = 33$  dB

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

$C_{l,r} = 3$  dB

$\Delta L_{in} = 19$  dB

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

Test report no.:

UF\_2719\_Comfort Green 6mm\_no covering

