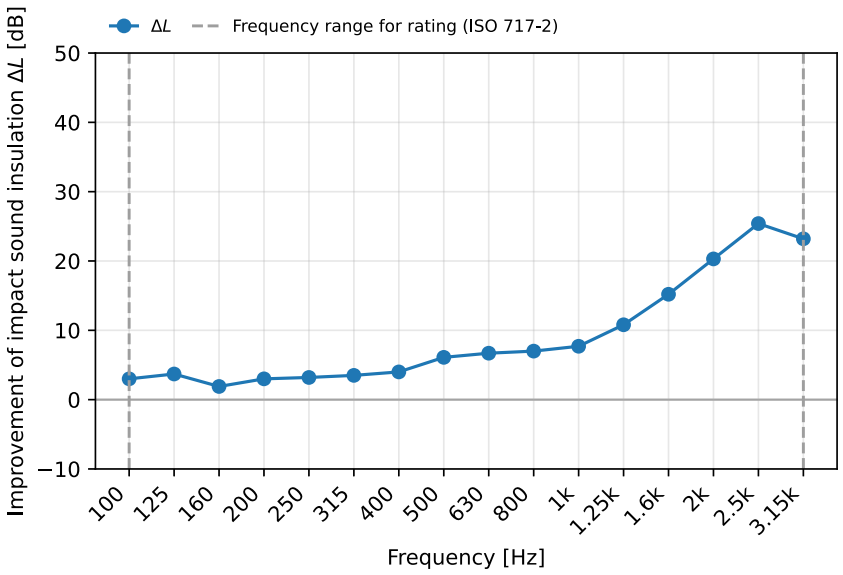
Reduction of impact sound pressure level

In accordance with ISO 10140 (all parts): laboratory measurements of the reduction of transmitted impact sound by floor coverings on a heavyweight or lightweight reference floor (ISO 10140-1:2021 Figure H.4). Rating in accordance with ISO 717-2:2020.

Manufacturer:	Example floorings	Product identification:	Resilient vinyl on felt backing, 4 mm
Client:	Example client	Test room identification:	Floor transmission suite (example)
Test specimen mounted by:	Example laboratory	Date of test:	2026-10-01
Description of test facility, test specimen and test arrangement:	Category I covering, three specimens of 650 mm x 350 mm laid loose on the 140 mm concrete reference floor	Type of reference floor:	Heavyweight reference floor (ISO 10140-5:2021 C.2)
Mass of test specimen per unit area [kg/m^2]:	2.6	Curing time [h]:	0
Air temp. in the source room [°C]:	21.2	Air humidity in the source room [%]:	48
Receiving room volume [m^3]:	58		

One-third-octave $L_{n,0}$ and ΔL

f [Hz]	$L_{n,0}$ [dB]	ΔL [dB]
100	62.1	3.0
125	63.2	3.7
160	63.5	1.9
200	66.2	3.0
250	68.5	3.2
315	70.0	3.5
400	71.7	4.0
500	73.1	6.1
630	73.8	6.7
800	73.5	7.0
1000	73.8	7.7
1250	73.3	10.8
1600	73.1	15.2
2000	73.0	20.3
2500	72.4	25.4
3150	71.2	23.2



ΔL_W = 15 dB; $C_{I,\Delta}$ = -9 dB

$L_{n,r,w}$ ($C_{I,r}$) = 63 (-2) dB
$L_{n,0,w}$ ($C_{I,0}$) = 79 (-11) dB
$C_{I,r,50\text{-}2500}$: not formed, ISO 717-2 Table 4 starts at 100 Hz

These results are based on a test performed with an artificial source under laboratory conditions (engineering method) with specified reference floor.

Result vs requirement: ΔL_W = 15 dB, required ≥ 15 dB → **PASS**

Laboratory: Phonometry reference example
Report no.: EXAMPLE-10140-1-H
Date: 2026-10-01
Operator: phonometry Signature: _____

■ The results relate only to the tested specimen.

Generated by phonometry.