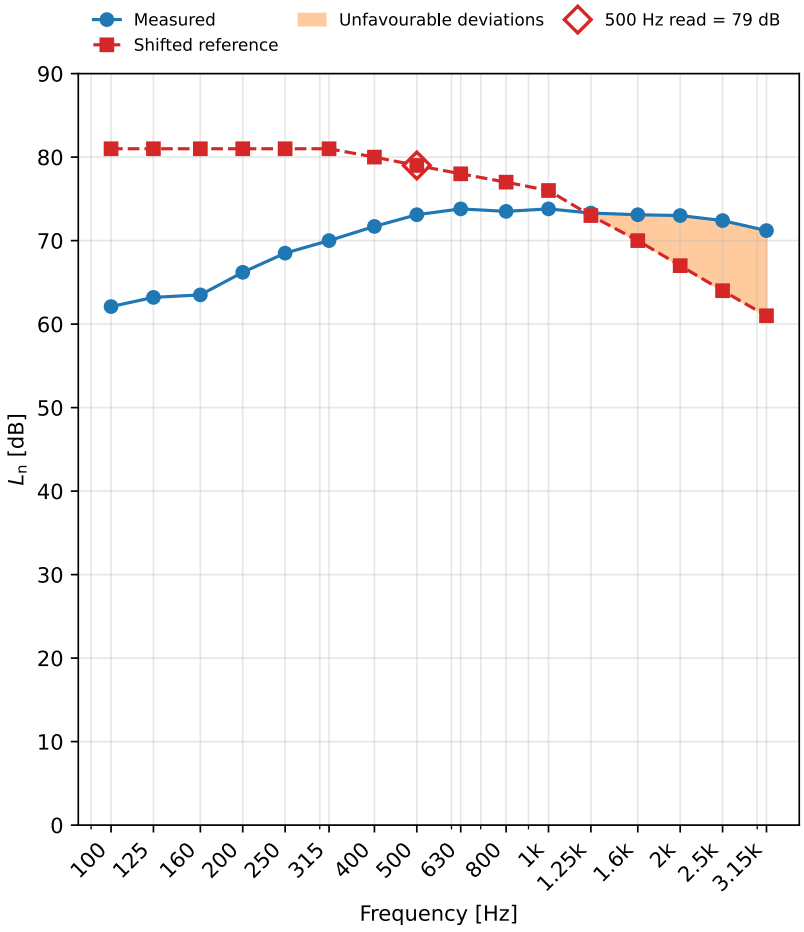
Laboratory impact sound insulation of floors

Normalized impact sound pressure level L_n measured in accordance with ISO 10140-3:2010 using the tapping machine. Rating per ISO 717-2:2020.

Client:	Example client	Sample area S [m^2]:	10
Description:	140 mm concrete slab, bare (reference floor)	Test room:	Transmission suite (example)
Date of test:	2026-07-18	Receiving room volume [m^3]:	50
Receiving room temp. [°C]:	20.6	Receiving room humidity [%]:	45
Mass per unit area [kg/m^2]:	336	Mounting:	Bare slab, no floor covering (ISO 10140-1)

One-third-octave L_n [dB]

Frequency f [Hz]	L_n [dB]
100	62.1
125	63.2
160	63.5
200	66.2
250	68.5
315	70.0
400	71.7
500	73.1
630	73.8
800	73.5
1000	73.8
1250	73.3
1600	73.1
2000	73.0
2500	72.4
3150	71.2



$L_{n,w}$ (C_I) = **79 (-11) dB**

Evaluation based on laboratory measurement results obtained by a precision method with the standard tapping machine.

Result vs requirement: $L_{n,w}$ = 79 dB, required ≤ 80 dB → **PASS**

Laboratory: Phonometry reference example
Report no.: EXAMPLE-10140-3
Date: 2026-07-18
Operator: phonometry Signature: _____

■ The results relate only to the tested specimen.

Generated by phonometry.