

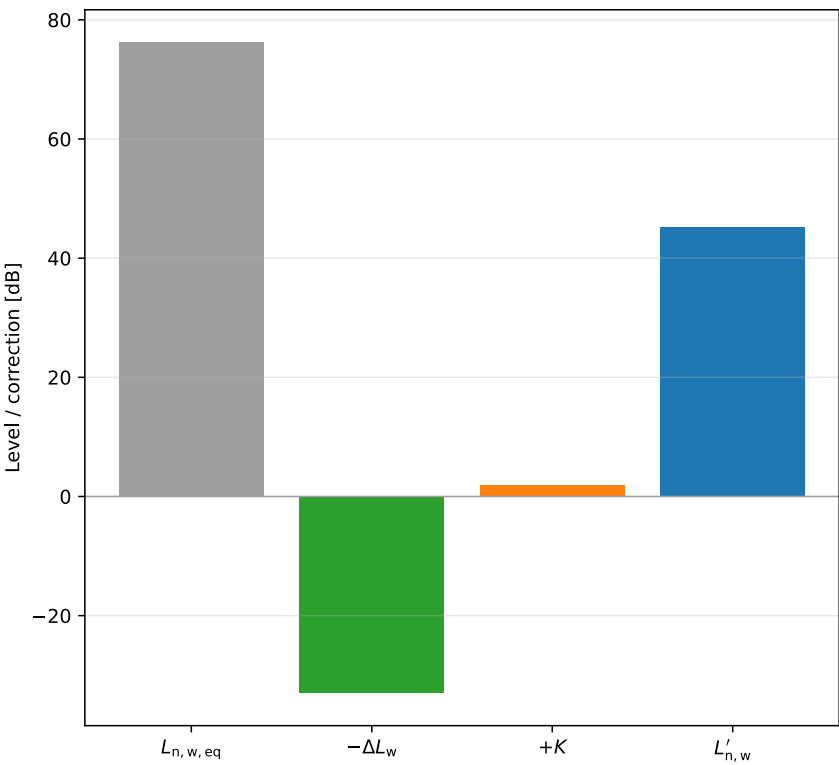
Predicted impact sound insulation of floors

Predicted apparent normalized impact sound pressure level $L'_{n,w}$ (bare floor, covering and flanking) estimated in accordance with EN 12354-2:2000 (simplified single-number model, Clause 4.3). This is a prediction from element data, not a measurement. $L'_{n,w}$ per ISO 717-2.

Client:	Example client	Sample area S [m ²]:	20
Description:	0.14 m concrete floor with floating floor (Annex E.3)	Test room:	Dwelling above to dwelling below (example)
Date of test:	2026-07-21	Receiving room volume [m ³]:	50
Mass per unit area [kg/m ²]: 322			

Impact level prediction - Formula (21) terms [dB]

Bare-floor level $L_{n,w,eq}$	76.2
Covering improvement ΔL_w	33
Flanking correction K	2



$L'_{n,w} = 45$ dB

Predicted (estimated) result computed from the building elements' performance by the EN/ISO 12354 simplified single-number model; it is not a measurement. The reported standard deviation of the model is about 2 dB.

Result vs requirement: $L'_{n,w} = 45$ dB, required ≤ 53 dB → **PASS**

Laboratory: Phonometry reference example

Report no.: EXAMPLE-12354-2

Date: 2026-07-21

Notes: Floating-floor covering improvement $DL_w = 33$ dB; mean flanking mass 145 kg/m² (Table 1 -> $K = 2$ dB). Simplified single-number model (Clause 4.3).

Operator: phonometry Signature: _____

■ Predicted result: the values relate only to the modelled configuration, not to a tested specimen.

Generated by phonometry.