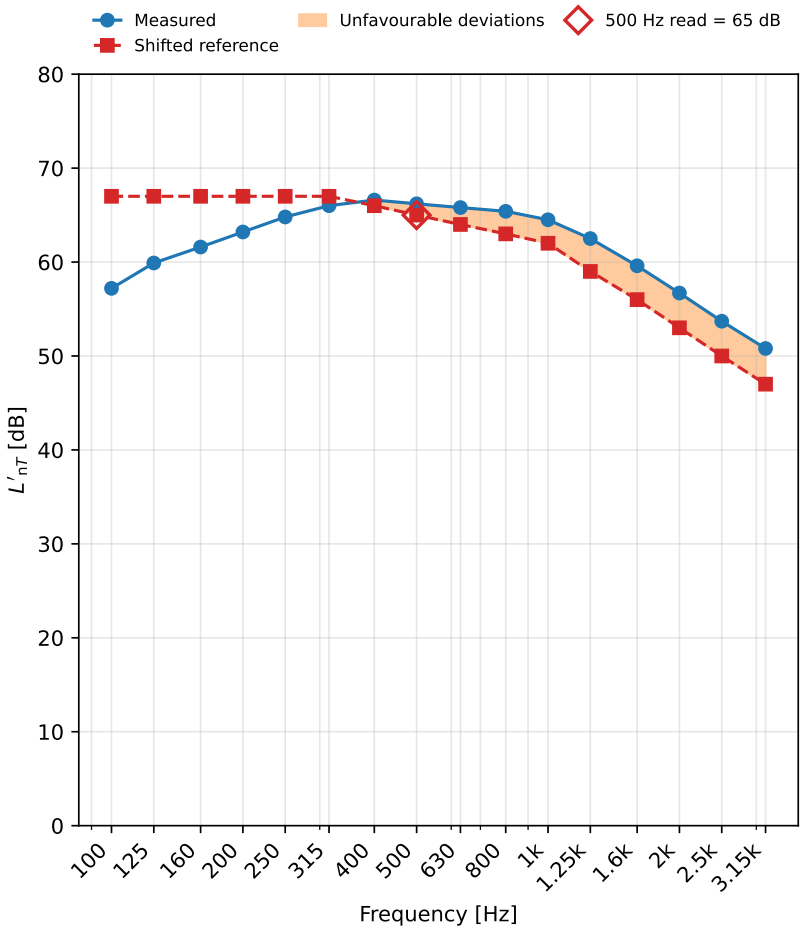
Field impact sound insulation of floors

Standardized impact sound pressure level L'_{nT} measured in accordance with ISO 16283-2:2020 using the tapping machine. Rating per ISO 717-2:2020.

Client:	Example client	Description:	Timber-joist floor with a floating chipboard deck
Test room:	Dwelling A bedroom below dwelling B bedroom	Date of test:	2026-07-20
Receiving room volume [m^3]:	30.4	Temperature [°C]:	20.1
Relative humidity [%]:	54		

One-third-octave L'_{nT} [dB]

Frequency f [Hz]	L'_{nT} [dB]
100	57.2
125	59.9
160	61.6
200	63.2
250	64.8
315	66.0
400	66.6
500	66.2
630	65.8
800	65.4
1000	64.5
1250	62.5
1600	59.6
2000	56.7
2500	53.7
3150	50.8



$L'_{nT,w}$ (C_I) = **65 (-5) dB**

Evaluation based on field measurement results obtained by an engineering method.

Result vs requirement: $L'_{nT,w}$ = 65 dB, required ≤ 58 dB → **FAIL**

Laboratory: Phonometry reference example
Report no.: EXAMPLE-16283-2
Date: 2026-07-20
Operator: phonometry Signature: _____

■ The results relate only to the tested specimen.

Generated by phonometry.