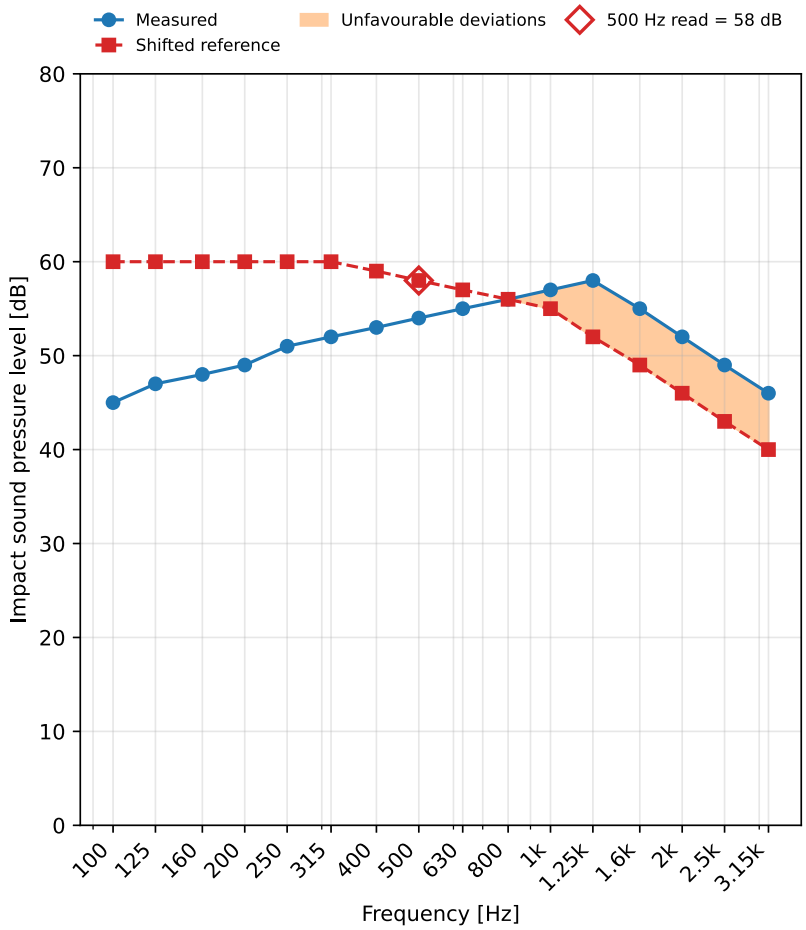
Impact sound insulation rating

ISO 16283-2 laboratory measurement of sound insulation. Rating per ISO 717-2:2020.

Client:	Example client	Sample area S [m^2]:	16
Manufacturer:	Example floors	Description:	150 mm concrete slab with a floating floor
Test room:	Transmission suite (example)	Date of test:	2026-07-18
Source room volume [m^3]:	53	Source room temp. [°C]:	20.8
Source room humidity [%]:	47	Receiving room volume [m^3]:	51
Receiving room temp. [°C]:	20.5	Receiving room humidity [%]:	48
Ambient pressure [kPa]:	100.9	Mass per unit area [kg/m^2]:	360
Mounting:	Floating floor on a resilient layer		

One-third-octave L_n [dB]

Frequency f [Hz]	L_n [dB]
100	45.0
125	47.0
160	48.0
200	49.0
250	51.0
315	52.0
400	53.0
500	54.0
630	55.0
800	56.0
1000	57.0
1250	58.0
1600	55.0
2000	52.0
2500	49.0
3150	46.0



$L_{n,w}$ (C_I) = **58 (-8) dB**

Result vs requirement: $L_{n,w}$ = 58 dB, required ≤ 53 dB → **FAIL**

Laboratory: Phonometry reference example
Report no.: EXAMPLE-717-2
Date: 2026-07-18
Operator: phonometry Signature: _____

■ The results relate only to the tested specimen.