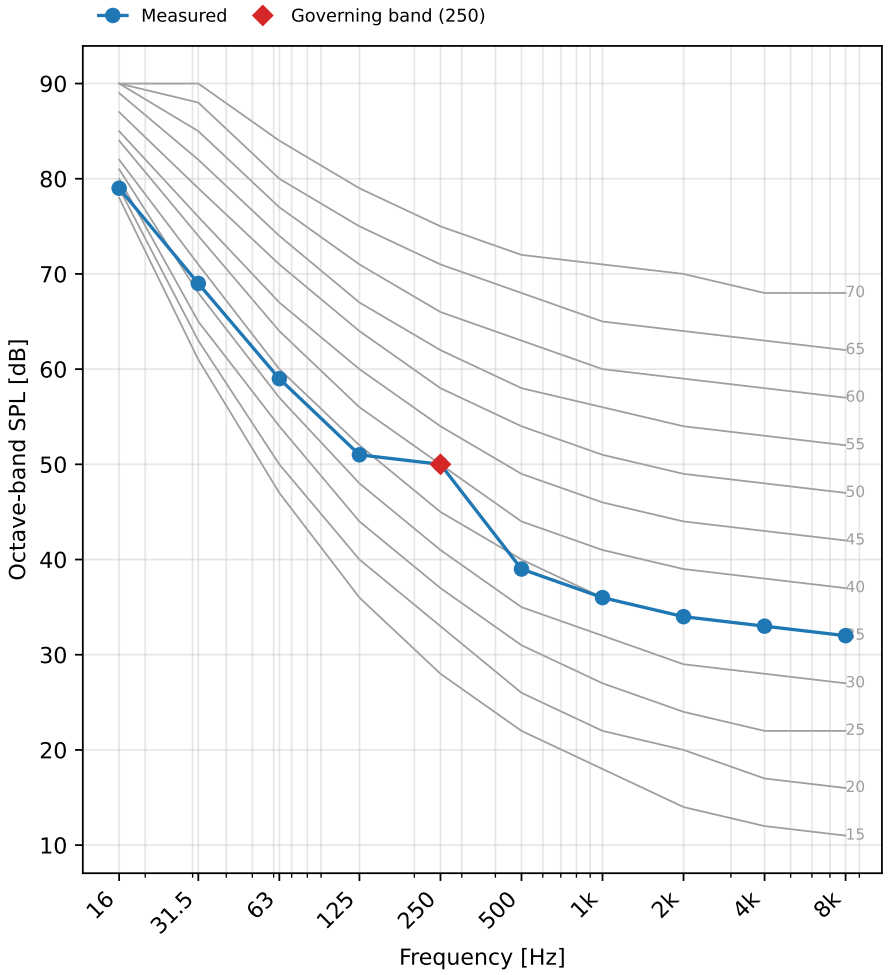
Room noise rating

ANSI/ASA S12.2 octave-band measurement of room noise. Noise Criteria (NC) rating: NC-(SIL) designation, or the tangency method when the spectrum exceeds the NC-(SIL) curve (ANSI/ASA S12.2-2019, 5.2.2).

Client:	Example client	Room:	Office A (example)
Description:	Open-plan office, air handling at nominal flow	Room volume V [m³]:	180
Floor area S [m²]:	60	Instrumentation:	Class 1 sound level meter + octave filter set (example)
Temperature [°C]:	22	Relative humidity [%]:	42
Ambient pressure [kPa]:	101.2	Date of test:	2026-07-21

Octave-band sound pressure levels

Frequency f [Hz]	L_p [dB]
16	79.0
31.5	69.0
63	59.0
125	51.0
250	50.0
500	39.0
1000	36.0
2000	34.0
4000	33.0
8000	32.0



NC-**40**

Speech interference level SIL = 35.5 dB
Governing band: 250 Hz
Rated by the tangency method: the spectrum exceeds the NC-(SIL) curve (ANSI/ASA S12.2-2019, 5.2.2 and 5.2.3).

Result vs requirement: NC 40, required ≤ 40 → **PASS**

Laboratory: Phonometry reference example
Report no.: EXAMPLE-S122-NC
Date: 2026-07-21
Operator: phonometry Signature: _____

■ The results relate only to the tested specimen.

Generated by phonometry.