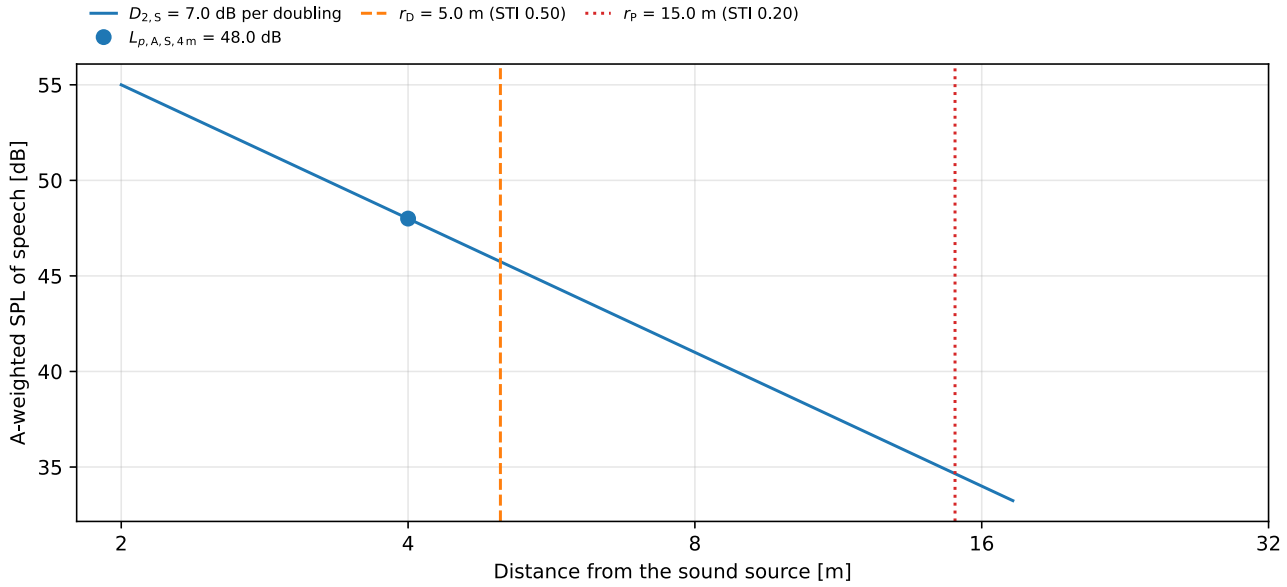
Open-plan office acoustics

ISO 3382-3 measurement of open-plan office speech-level spatial decay and speech privacy per ISO 3382-3:2012.

Client:	Example client	Office / zone:	Open-plan office B (example)
Description:	Furnished, unoccupied, background noise present	Floor area S [m²]:	420
Source positions:	2	Measurement positions:	7
Instrumentation:	Omnidirectional source + class 1 SLM (example)	Temperature [°C]:	22
Relative humidity [%]:	45	Ambient pressure [kPa]:	101.1
Date of test:	2026-07-20		

Single-number quantities

Spatial decay rate $D_{2,S}$ [dB]	7.0
Speech level $L_{p,A,S,4m}$ [dB]	48.0
Distraction distance r_D [m]	5.0
Privacy distance r_P [m]	15.0



$D_{2,S}$ = 7.0 dB per distance doubling

$L_{p,A,S,4m}$ = 48.0 dB
r_D = 5.0 m
r_P = 15.0 m

Result vs requirement: $D_{2,S}$ = 7.0 dB, required ≥ 7.0 dB → **PASS**

Spatial decay rate $D_{2,S}$ and the nominal 4 m speech level $L_{p,A,S,4m}$ from a least-squares fit of the A-weighted speech level against $\lg(r/r_0)$ (r_0 = 1 m) over the 2 m to 16 m positions (ISO 3382-3:2012, 6.2, Equation (5)); $D_{2,S}$ is the per-distance-doubling decay.

Distraction distance r_D (STI = 0.50) and privacy distance r_P (STI = 0.20) from a linear regression of the speech transmission index against distance (full IEC 60268-16 method, spatially averaged background noise; ISO 3382-3:2012, 6.3, Figure 3 b).

Laboratory: Phonometry reference example
Report no.: EXAMPLE-3382-3
Date: 2026-07-20
Operator: phonometry Signature: _____

■ The results relate only to the tested specimen.

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