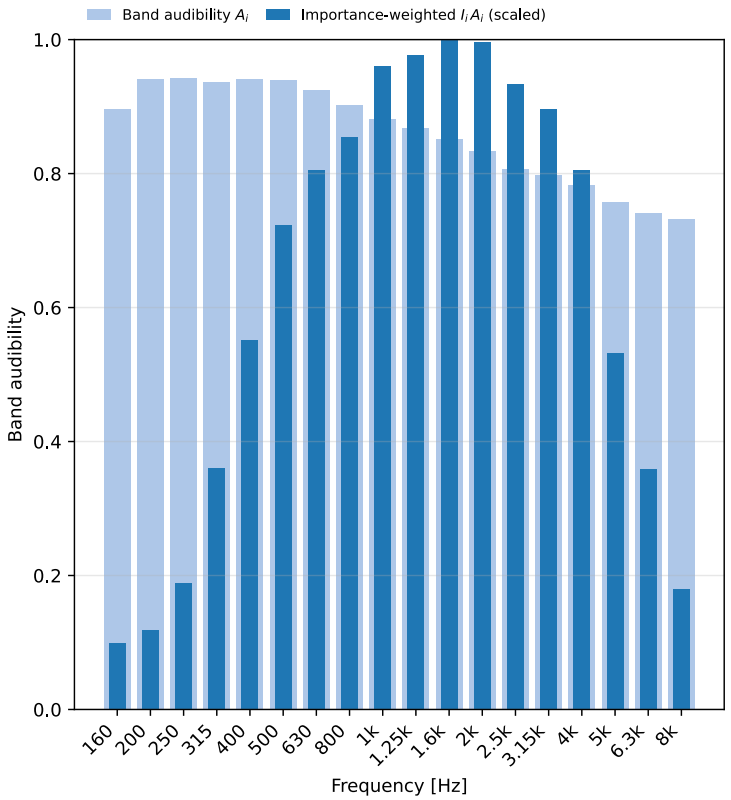
Speech intelligibility index

ANSI S3.5-1997 speech intelligibility index. Rating per ANSI S3.5-1997 (one-third-octave-band method).

Client:	Example client	Listening condition:	Conversational speech in low-frequency ambient noise
Test room:	Open-plan office listening position (example)	Date of test:	2026-07-22

One-third-octave band audibility

f [Hz]	E'_i [dB]	I_i	A_i
160	54.0	0.0083	0.90
200	54.0	0.0095	0.94
250	54.0	0.0150	0.94
315	54.0	0.0289	0.94
400	54.0	0.0440	0.94
500	54.0	0.0578	0.94
630	54.0	0.0653	0.93
800	54.0	0.0711	0.90
1000	54.0	0.0818	0.88
1250	54.0	0.0844	0.87
1600	54.0	0.0882	0.85
2000	54.0	0.0898	0.83
2500	54.0	0.0868	0.81
3150	54.0	0.0844	0.80
4000	54.0	0.0771	0.78
5000	54.0	0.0527	0.76
6300	54.0	0.0364	0.74
8000	54.0	0.0185	0.73



SII = **0.851**

Result vs requirement: SII = 0.851, required ≥ 0.750 → **PASS**

Laboratory: Phonometry reference example
Report no.: EXAMPLE-SII
Date: 2026-07-22
Operator: phonometry Signature: _____

■ The results relate only to the tested specimen.

Generated by phonometry.