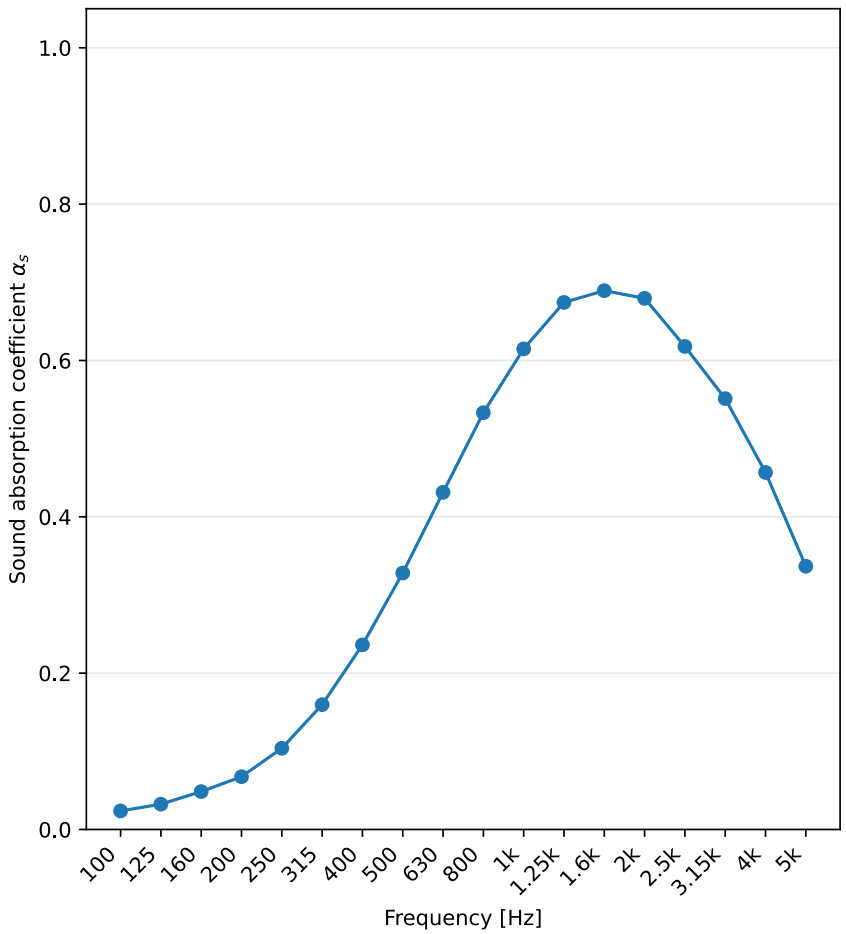
Sound absorption measurement

ISO 354 reverberation-room measurement of sound absorption per ISO 354:2003.

Client:	Example client	Manufacturer:	Example acoustics
Description:	50 mm porous absorber over a 100 mm air gap	Sample area S [m^2]:	10.8
Room volume V [m^3]:	200	Speed of sound c [m/s]:	343
Mounting:	Type A (mounted directly against a rigid wall)	Test room:	Reverberation room (example)
Date of test:	2026-07-21	Temperature [°C]:	20
Relative humidity [%]:	54	Ambient pressure [kPa]:	101

One-third-octave α_s

Frequency f [Hz]	α_s
100	0.02
125	0.03
160	0.05
200	0.07
250	0.10
315	0.16
400	0.24
500	0.33
630	0.43
800	0.53
1000	0.61
1250	0.67
1600	0.69
2000	0.68
2500	0.62
3150	0.55
4000	0.46
5000	0.34



Sound absorption coefficient α_s, 100 Hz to 5000 Hz

Laboratory: Phonometry reference example
Report no.: EXAMPLE-354
Date: 2026-07-21
Operator: phonometry Signature: _____

■ The results relate only to the tested specimen.

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