

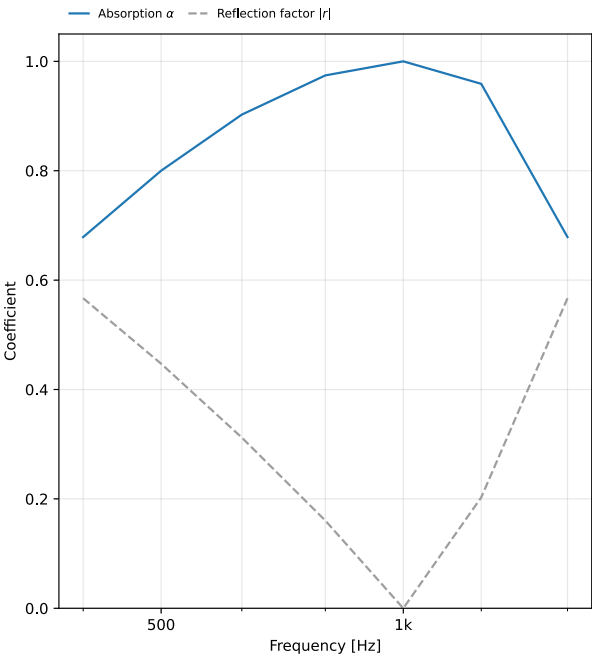
Impedance-tube sound absorption and impedance

ISO 10534-2 normal-incidence measurement of sound absorption and surface impedance in an impedance tube by the two-microphone transfer-function method per ISO 10534-2:2001.

Client:	Example client	Manufacturer:	Example acoustics
Description:	Resistive facing over an 86 mm rigidly-backed air cavity	Tube diameter d [mm]:	100
Microphone spacing s [mm]:	50	Frequency range [Hz]:	400 to 1600
Mounting:	Deliberate 86 mm backing air cavity, rigid termination	Test facility:	Impedance tube B&K 4206 (example)
Date of test:	2026-07-21	Temperature [°C]:	20
Ambient pressure [kPa]:	101		

Normal-incidence α and normalised surface impedance z

f [Hz]	α	Re z	Im z
400	0.68	1.00	-1.38
500	0.80	1.00	-1.00
630	0.90	1.00	-0.66
800	0.97	1.00	-0.32
1000	1.00	1.00	0.00
1250	0.96	1.00	0.41
1600	0.68	1.00	1.38



Normal-incidence sound absorption coefficient α , 400 Hz to 1600 Hz

Laboratory: Phonometry reference example

Report no.: EXAMPLE-10534-2

Date: 2026-07-21

Operator: phonometry Signature: _____

■ The results relate only to the tested specimen.

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