

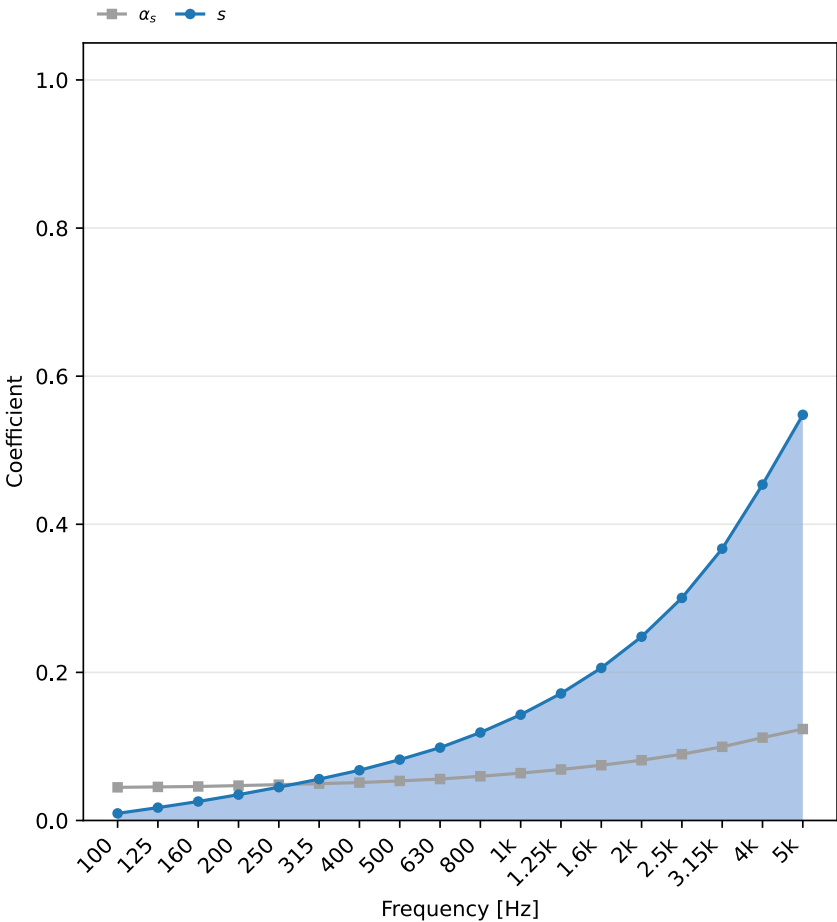
Surface scattering measurement

ISO 17497-1 reverberation-room measurement of the random-incidence scattering coefficient per ISO 17497-1:2004+A1:2014.

Client:	Example client	Manufacturer:	Example acoustics
Description:	1:1 quadratic-residue diffuser (N = 7)	Sample area S [m ²]:	10
Room volume V [m ³]:	200	Frequency range [Hz]:	100 to 5000
Mounting:	Circular sample on the rotating turntable, centre displaced d/8	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 and scattering coefficient s

f [Hz]	α_s	s
100	0.04	0.01
125	0.05	0.02
160	0.05	0.03
200	0.05	0.03
250	0.05	0.04
315	0.05	0.06
400	0.05	0.07
500	0.05	0.08
630	0.06	0.10
800	0.06	0.12
1000	0.06	0.14
1250	0.07	0.17
1600	0.07	0.21
2000	0.08	0.25
2500	0.09	0.30
3150	0.10	0.37
4000	0.11	0.45
5000	0.12	0.55



Random-incidence scattering coefficient s, 100 Hz to 5000 Hz

Laboratory: Phonometry reference example

Report no.: EXAMPLE-17497-1

Date: 2026-07-21

Operator: phonometry Signature: _____

■ The results relate only to the tested specimen.

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