

Sound absorption coefficient ISO 354

Measurement of sound absorption in reverberation room

Client: Bryndís Bolladóttir

Test specimen: Half a sphere, 80 cm in diameter

Test set-up and mounting: The half-spheres were laid on the floor of the reverberant chamber with 2 m distance. Timber joints were placed underneath the half-spheres in order to make an air gap.

Date: 31st July 2012

Reverberant chamber

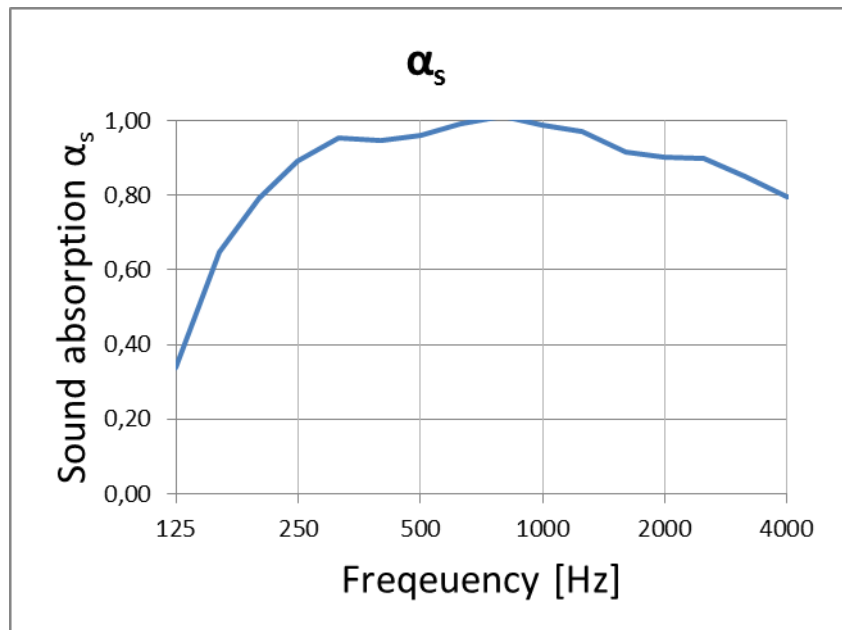
Volume: 203,0 m³

Surface Area: 208,5 m²

T: 20°C

Relative humidity, r.h.: 50%

Frequency [Hz]	α_s third-octaves
100	0,26
125	0,34
160	0,65
200	0,79
250	0,89
315	0,96
400	0,95
500	0,96
630	0,99
800	1,01
1.000	0,99
1.250	0,97
1.600	0,92
2.000	0,90
2.500	0,90
3.150	0,85
4.000	0,80
5.000	0,80



α_s sound absorption coefficient according to ISO 354

Rating according to ISO 11654:

Weighted sound absorption coefficient $\alpha_w = 0,95$

Sound Absorption Class: A