

## Sound absorption coefficient ISO 354

Measurement of sound absorption in reverberation room

**Client:** Bryndís Bolladóttir

**Test specimen:** Half a sphere, 100 cm in diameter

**Material properties:** Half a sphere made of sponge material and wool textile.

**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**

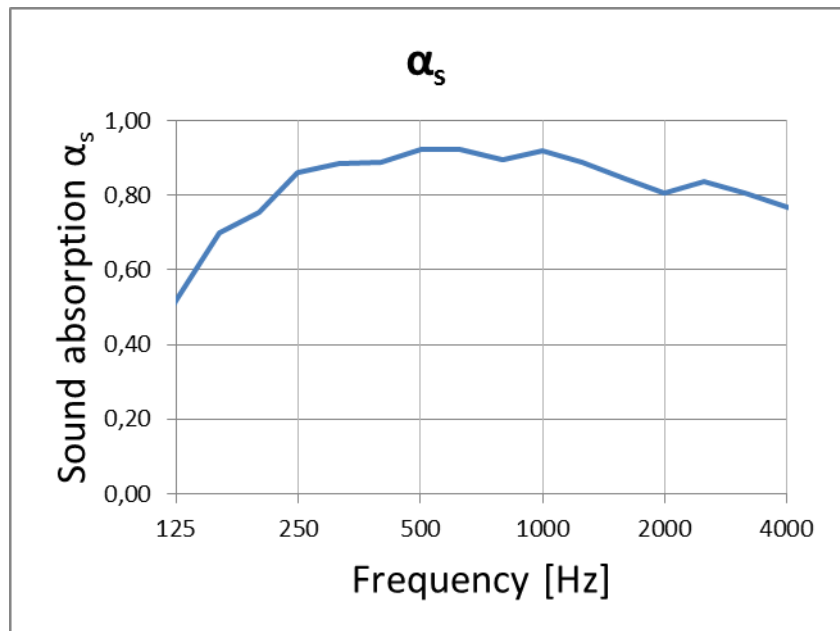
**Volume:** 203,0 m<sup>3</sup>

**Surface Area:** 208,5 m<sup>2</sup>

**T:** 20°C

**Relative humidity, r.h.:** 50%

Frequency [Hz]	$\alpha_s$ third-octaves
100	0,33
125	0,52
160	0,70
200	0,75
250	0,86
315	0,88
400	0,89
500	0,92
630	0,92
800	0,90
1.000	0,92
1.250	0,89
1.600	0,84
2.000	0,81
2.500	0,84
3.150	0,81
4.000	0,77
5.000	0,74



$\alpha_s$  sound absorption coefficient according to ISO 354

Rating according to ISO 11654:

**Weighted sound absorption coefficient  $\alpha_w = 0,90$**

Sound Absorption Class: A