Appendix 11

Sound absorption coefficient according to EN-ISO 11654

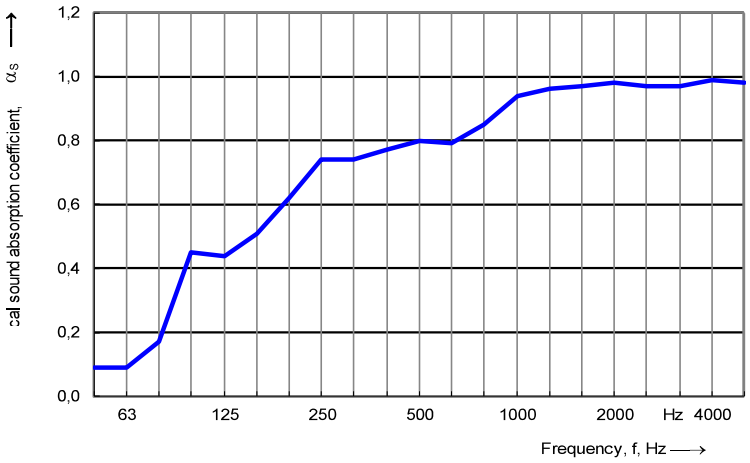
Measurement of sound absorption coefficient in a reverberation room

Client: Saint Gobain Ecophon AB Date of test: 2021-09-30

Description:

Object: Master Ds
Thickness 40 mm
ODS 200 mm

Empty reverberation room:		Reverberation room with object:	
Relative humidity:	79,1 %	Relative humidity:	79,4 %
Temperature:	21,0 °C	Temperature:	21,4 °C
Barometric pressure:	99,2 kPa	Barometric pressure:	99,1 kPa

Surface area: 10,80 m²
Room volume: 200,0 m³
Total room area S_t: 211,4 m²

Frequency f [Hz]	α_s 1/3 octave
50	0,09
63	0,09
80	0,17
100	0,45
125	0,44
160	0,51
200	0,62
250	0,74
315	0,74
400	0,77
500	0,80
630	0,79
800	0,85
1000	0,94
1250	0,96
1600	0,97
2000	0,98
2500	0,97
3150	0,97
4000	0,99
5000	0,98