Appendix 8

Sound absorption coefficient according to EN-ISO 11654

Measurement of sound absorption coefficient in a reverberation room

Client: Saint-Gobain Eurocoustic
Description: Tonga E20
600 mm x 600 mm x 20 mm
ODS 200 mm

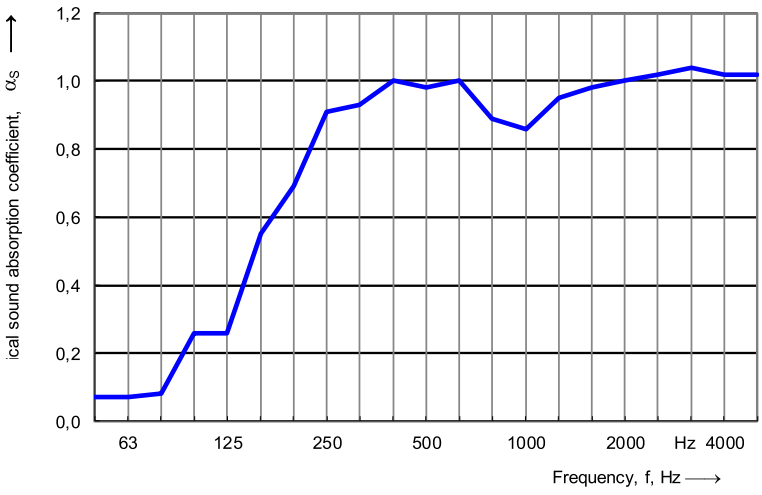
Date of test: 2020-12-08

Object:

Empty reverberation room:		Reverberation room with object:	
Relative humidity:	78,3 %	Relative humidity:	76,4 %
Temperature:	19,6 °C	Temperature:	20,1 °C
Barometric pressure:	98,9 kPa	Barometric pressure:	98,9 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	0,07
63	0,07
80	0,08
100	0,26
125	0,26
160	0,55
200	0,69
250	0,91
315	0,93
400	1,00
500	0,98
630	1,00
800	0,89
1000	0,86
1250	0,95
1600	0,98
2000	1,00
2500	1,02
3150	1,04
4000	1,02
5000	1,02



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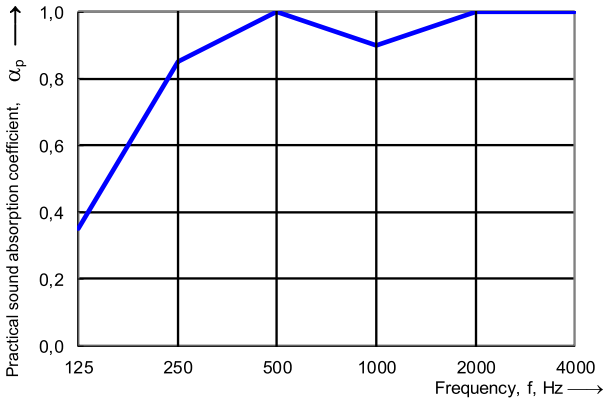
Temperature:	19,6 °C	Temperature:	20,1 °C
Barometric pressure:	98,9 kPa	Barometric pressure:	98,9 kPa

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

Frequency f [Hz]	α_p 1/1 octave
100 125 160	0,35
200 250 315	0,85
400 500 630	1,00
800 1000 1250	0,90
1600 2000 2500	1,00
3150 4000 5000	1,00



Weighted sound absorption coefficient according to ISO 11654

α_w = 1,00 Classification: A