

Appendix 9

Sound absorption coefficient according to EN-ISO 11654

Measurement of sound absorption coefficient in a reverberation room

Client: Saint-Gobain Eurocoustic
 Object: Minerval E15
 600 mm x 600 mm x 15 mm
 ODS 200 mm

Date of test: 2020-12-08

Empty reverberation room:		Reverberation room with object:	
Relative humidity:	78,3 %	Relative humidity:	75,3 %
Temperature:	19,6 °C	Temperature:	20,1 °C
Barometric pressure:	98,9 kPa	Barometric pressure:	98,9 kPa

Surface area:	10,80 m ²
Room volume:	200,0 m ³
Total room area S _i :	211,4 m ²

Frequency f [Hz]	α_s 1/3 octave
50	0,06
63	0,06
80	0,10
100	0,21
125	0,21
160	0,53
200	0,64
250	0,88
315	0,93
400	0,98
500	1,00
630	1,01
800	0,88
1000	0,80
1250	0,88
1600	0,95
2000	0,96
2500	1,00
3150	1,03
4000	1,01
5000	1,04

Appendix 9

Sound absorption coefficient according to EN-ISO 11654

Measurement of sound absorption coefficient in a reverberation room

Client: Saint-Gobain Eurocoustic
 Object: Minerval E15
 600 mm x 600 mm x 15 mm
 ODS 200 mm

Date of test: 2020-12-08

Empty reverberation room: Reverberation room with object:

Relative humidity: 78,3 % Relative humidity: 75,3 %

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_r: 211,4 m²

Frequency f [Hz]	α _p 1/1 octave
100	0,30
125	
160	
200	0,80
250	
315	
400	1,00
500	
630	
800	0,85
1000	
1250	
1600	0,95
2000	
2500	
3150	1,00
4000	
5000	

Weighted sound absorption coefficient according to ISO 11654

α_w = 0,95 Classification: A