

Appendix 15

Sound absorption coefficient according to EN-ISO 11654

Measurement of sound absorption coefficient in a reverberation room

Client: Saint-Gobain Ecophon AB
Description: Determination of sound absorption coefficient
Date of test: 2021-04-22

Object: Gedina D, 15 mm
ODS 200 mm

Empty reverberation room:

Relative humidity: 83,0 %
Temperature: 20,8 °C
Barometric pressure: 98,8 kPa

Reverberation room with object:

Relative humidity: 79,8 %
Temperature: 21,1 °C
Barometric pressure: 98,8 kPa

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

Frequency f [Hz]	α_s 1/3 octave
50	0,08
63	0,07
80	0,10
100	0,31
125	0,30
160	0,55
200	0,71
250	0,84
315	0,82
400	0,90
500	0,92
630	0,89
800	0,81
1000	0,78
1250	0,87
1600	0,94
2000	0,94
2500	0,96
3150	0,97
4000	0,92
5000	0,90

