

Appendix 3

Sound absorption coefficient according to EN-ISO 11654

Measurement of sound absorption coefficient in a reverberation room

Client: Saint-Gobain Ecophon AB
Object: Master Eg
585 x 585 mm
Thickness: 40 mm
Mass per square metre: 3,49 kg/ m²
ODS 200 mm

Date of test: 2020-10-27

Empty reverberation room:

Relative humidity: 82,3 %
Temperature: 20,9 °C
Barometric pressure: 97,9 kPa

Reverberation room with object:

Relative humidity: 79,0 %
Temperature: 20,8 °C
Barometric pressure: 97,9 kPa

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

Frequency f [Hz]	α_s 1/3 octave
50	0,08
63	0,12
80	0,20
100	0,33
125	0,38
160	0,61
200	0,72
250	0,81
315	0,85
400	0,85
500	0,84
630	0,86
800	0,99
1000	0,92
1250	0,96
1600	0,99
2000	1,00
2500	0,99
3150	1,01
4000	0,99
5000	0,96

