

Appendix 12

Sound absorption coefficient according to EN-ISO 11654

Measurement of sound absorption coefficient in a reverberation room

Client: Saint-Gobain Ecophon AB
 Object: Clipso ceiling □
 180 mm air gap + glass wool 20 mm. □
 ODS 200 mm

Date of test: 2022-10-18

Empty reverberation room:

Relative humidity: 85,0 %
 Temperature: 20,5 °C
 Barometric pressure: 99,9 kPa

Reverberation room with object:

Relative humidity: 81,8 %
 Temperature: 20,9 °C
 Barometric pressure: 99,6 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	0,05
63	0,04
80	0,07
100	0,11
125	0,12
160	0,36
200	0,48
250	0,73
315	0,87
400	0,91
500	0,96
630	0,84
800	0,71
1000	0,71
1250	0,83
1600	0,86
2000	0,88
2500	0,89
3150	0,89
4000	0,88
5000	0,84

