

Appendix 4

Sound absorption coefficient according to EN-ISO 11654

Measurement of sound absorption coefficient in a reverberation room

Client: Saint Gobain Ecophon AB
Description:

Date of test: 2023-02-15

Object: Clipso 495AC 4054 anthracite
180 mm air gap + glass wool 20 mm Acoustic board for Clipso
ODS 200 mm

Empty reverberation room:

Relative humidity: 83,0 %

Temperature: 17,9 °C

Barometric pressure: 100,5 kPa

Reverberation room with object:

Relative humidity: 82,2 %

Temperature: 18,9 °C

Barometric pressure: 100,5 kPa

Surface area: 10,80 m²Room volume: 200,0 m³Total room area S_T: 211,4 m²

Frequency f [Hz]	α_s 1/3 octave
50	0,04
63	0,05
80	0,06
100	0,10
125	0,15
160	0,31
200	0,44
250	0,68
315	0,77
400	0,79
500	0,77
630	0,68
800	0,60
1000	0,65
1250	0,76
1600	0,76
2000	0,77
2500	0,72
3150	0,68
4000	0,64
5000	0,60

