

Appendix 8

Sound absorption coefficient according to EN-ISO 11654

Measurement of sound absorption coefficient in a reverberation room

Client: Saint Gobain Ecophon AB Date of test: 2023-02-16

Description:

Object: Clipso 495 D AB
180 mm air gap + glass wool 20 mm Acoustic board for Clipso
ODS 200 mm

Empty reverberation room: Reverberation room with object:

Relative humidity: 83,0 % Relative humidity: 80,2 %

Temperature: 17,9 °C Temperature: 18,4 °C

Barometric pressure: 100,5 kPa Barometric pressure: 99,4 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	0,05
63	0,05
80	0,05
100	0,10
125	0,12
160	0,34
200	0,44
250	0,74
315	0,82
400	0,93
500	0,92
630	0,84
800	0,72
1000	0,73
1250	0,83
1600	0,89
2000	0,92
2500	0,94
3150	0,93
4000	0,91
5000	0,92

Frequency, f, Hz →