

Appendix 1

**Sound absorption coefficient according to EN-ISO 11654**

Measurement of sound absorption coefficient in a reverberation room

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Client: Saint-Gobain Ecophon AB Date of test: 2023-12-01  
 Description: ODS 200 mm

Object: Acoustic board for Fade, 40 mm.  
 Base layer of type Ecophon Fade Duo Primer.  
 Surface layer of type Ecophon Fade Duo Top

Empty reverberation room: Reverberation room with object:  
 Relative humidity: 80,2 % Relative humidity: 82,0 %  
 Temperature: 17,9 °C Temperature: 18,0 °C  
 Barometric pressure: 98,5 kPa Barometric pressure: 98,5 kPa

Surface area: 10,80 m<sup>2</sup>  
 Room volume: 200,0 m<sup>3</sup>  
 Total room area S<sub>i</sub>: 211,4 m<sup>2</sup>

Frequency f [Hz]	$\alpha_s$ 1/3 octave
50	0,08
63	0,11
80	0,16
100	0,37
125	0,31
160	0,52
200	0,61
250	0,64
315	0,63
400	0,66
500	0,75
630	0,86
800	0,86
1000	0,84
1250	0,91
1600	0,86
2000	0,87
2500	0,88
3150	0,87
4000	0,82
5000	0,85

Frequency, f, Hz →

