

Appendix 10

**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: 2021-09-30

Description:

Object: Master Ds  
Thickness 40 mm  
ODS 95 mm

Empty reverberation room: Reverberation room with object:

Relative humidity: 79,1 % Relative humidity: 80,8 %

Temperature: 21,0 °C Temperature: 21,8 °C

Barometric pressure: 99,2 kPa Barometric pressure: 99,0 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	0,04
63	0,06
80	0,12
100	0,20
125	0,27
160	0,52
200	0,62
250	0,79
315	0,85
400	0,87
500	0,86
630	0,88
800	0,91
1000	0,90
1250	0,91
1600	0,95
2000	0,96
2500	0,94
3150	0,95
4000	0,97
5000	0,94

Frequency, f, Hz →