

Appendix 17

**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  
 Description: ODS 30 mm  
 Date of test: 2024-02-02

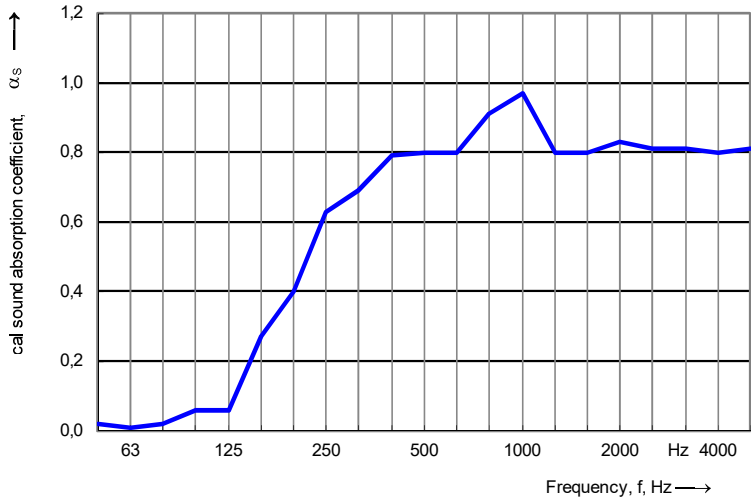
Object: Baseboard 25 mm  
 Base layer of type Ecophon Fade Duo Primer (sanded)  
 Surface layer of type Ecophon Fade Duo Top

Empty reverberation room:                      Reverberation room with object:

Relative humidity:                      81,5 %                      Relative humidity:                      81,9 %  
 Temperature:                      19,1 °C                      Temperature:                      19,4 °C  
 Barometric pressure:                      99,0 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>r</sub>:                      211,4 m<sup>2</sup>

Frequency f [Hz]	$\alpha_s$ 1/3 octave
50	0,02
63	0,01
80	0,02
100	0,06
125	0,06
160	0,27
200	0,40
250	0,63
315	0,69
400	0,79
500	0,80
630	0,80
800	0,91
1000	0,97
1250	0,80
1600	0,80
2000	0,83
2500	0,81
3150	0,81
4000	0,80
5000	0,81



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Frequency f [Hz]	α <sub>p</sub> 1/1 octave
100	
125	0,15
160	
200	
250	0,55
315	
400	
500	0,80
630	
800	
1000	0,90
1250	
1600	
2000	0,80
2500	
3150	
4000	0,80
5000	

Practical sound absorption coefficient according to ISO 11654

α<sub>w</sub> = 0,80 Classification: B