

Appendix 4

Sound absorption coefficient according to EN-ISO 11654

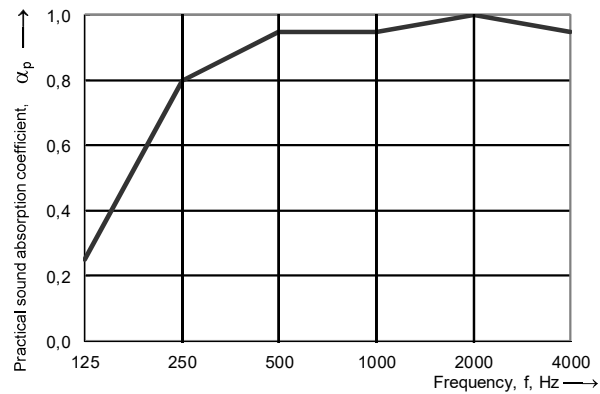
Measurement of sound absorption coefficient in a reverberation room

Client: Saint-Gobain Ecophon AB
Object: Master Eg
585 x 585 mm
Thickness: 40 mm
Mass per square metre: 3,49 kg/ m²
ODS: 80 mm
Date of test: 2020-10-27

Empty reverberation room:
Relative humidity: 82,3 %
Temperature: 20,9 °C
Barometric pressure: 97,9 kPa
Reverberation room with object:
Relative humidity: 79,4 %
Temperature: 21,0 °C
Barometric pressure: 97,0 kPa

Surface area: 10,80 m²
Room volume: 200,0 m³
Total room area S_i: 211,4 m²

Frequency f [Hz]	α_p 1/1 octave
100	0,25
125	
160	
200	0,80
250	
315	
400	0,95
500	
630	
800	0,95
1000	
1250	
1600	1,00
2000	
2500	
3150	0,95
4000	
5000	



Weighted sound absorption coefficient according to ISO 11654

$\alpha_w = 1,00$

Classification: A