

Appendix 12

Sound absorption coefficient according to EN-ISO 11654

Measurement of sound absorption coefficient in a reverberation room

Client: Saint-Gobain Ecophon AB
 Object: Clipso ceiling ☐
 180 mm air gap + glass wool 20 mm. ☐
 ODS 200 mm

Date of test: 2022-10-18

Empty reverberation room:

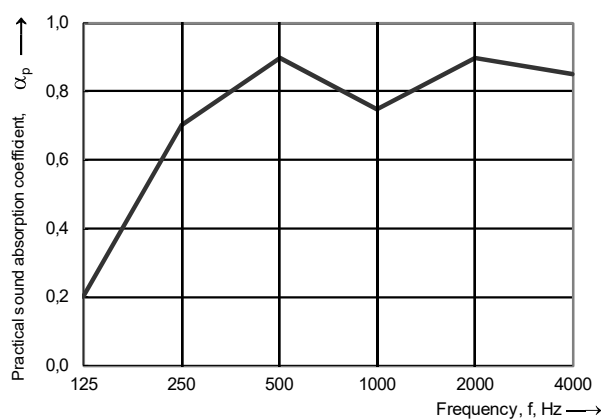
Relative humidity: 85,0 %
 Temperature: 20,5 °C
 Barometric pressure: 99,9 kPa

Reverberation room with object:

Relative humidity: 81,8 %
 Temperature: 20,9 °C
 Barometric pressure: 99,6 kPa

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

Frequency f [Hz]	α_p 1/1 octave
100	
125	0,20
160	
200	
250	0,70
315	
400	
500	0,90
630	
800	
1000	0,75
1250	
1600	
2000	0,90
2500	
3150	
4000	0,85
5000	



Weighted sound absorption coefficient according to ISO 11654

 $\alpha_w = 0,85$

Classification: B