

Appendix 8

Sound absorption coefficient according to SS-EN ISO 11654

Measurement of sound absorption coefficient in a reverberation room

Client: Saint-Gobain Ecophon AB Date of test: 2024-06-13
 Description: ODS 20 mm

Object: Fade ONE Smooth 15 mm

Empty reverberation room:	Reverberation room with object
Relative humidity: 79,3 %	Relative humidity: 82,3 %
Temperature: 21,8 °C	Temperature: 22,1 °C
Barometric pressure: 98,9 kPa	Barometric pressure: 99,0 kPa

Surface area:	10,80 m ²
Room volume:	200,0 m ³
Total room area S _t :	211,4 m ²

Frequency f [Hz]	α_p 1/1octave
100	
125	0,05
160	
200	
250	0,25
315	
400	
500	0,65
630	
800	
1000	0,85
1250	
1600	
2000	0,95
2500	
3150	
4000	0,85
5000	

Weighted sound absorption coefficient according to ISO 11654

$\alpha_w = 0,55$ (MH) Classification: D