

Note

SOUND ABSORPTION COEFFICIENT ACCORDING TO SS-EN ISO 354:2003 AND SS-EN ISO 11654:1997

Measurement of sound absorption coefficient in a reverberation room



Report number:

3333-M1

Date

2024-01-25

Frequency f [Hz]	Sound absorption coefficient	
	α_s	α_p
50	0.03	
63	0.06	0.05
80	0.09	
100	0.14	
125	0.20	0.25
160	0.37	
200	0.52	
250	0.76	0.75
315	0.90	
400	1.05	
500	1.13	1.00
630	1.15	
800	1.15	
1000	1.14	1.00
1250	1.14	
1600	1.08	
2000	1.07	1.00
2500	1.11	
3150	1.09	
4000	1.13	1.00
5000	1.17	

Client: Decibel By Johansson

Manufacturer: Decibel By Johansson

Product identification: Note

Description of test specimen: Sound absorbing panel 600 x 600 mm made of an MDF plate with Ecophon glass fiber filling. Height varying from 65 mm to 133 mm. Tested directly on the floor.

Reverberation room volume: 200 m³

Temperature: 16.6 °C (empty: 16.4 °C)

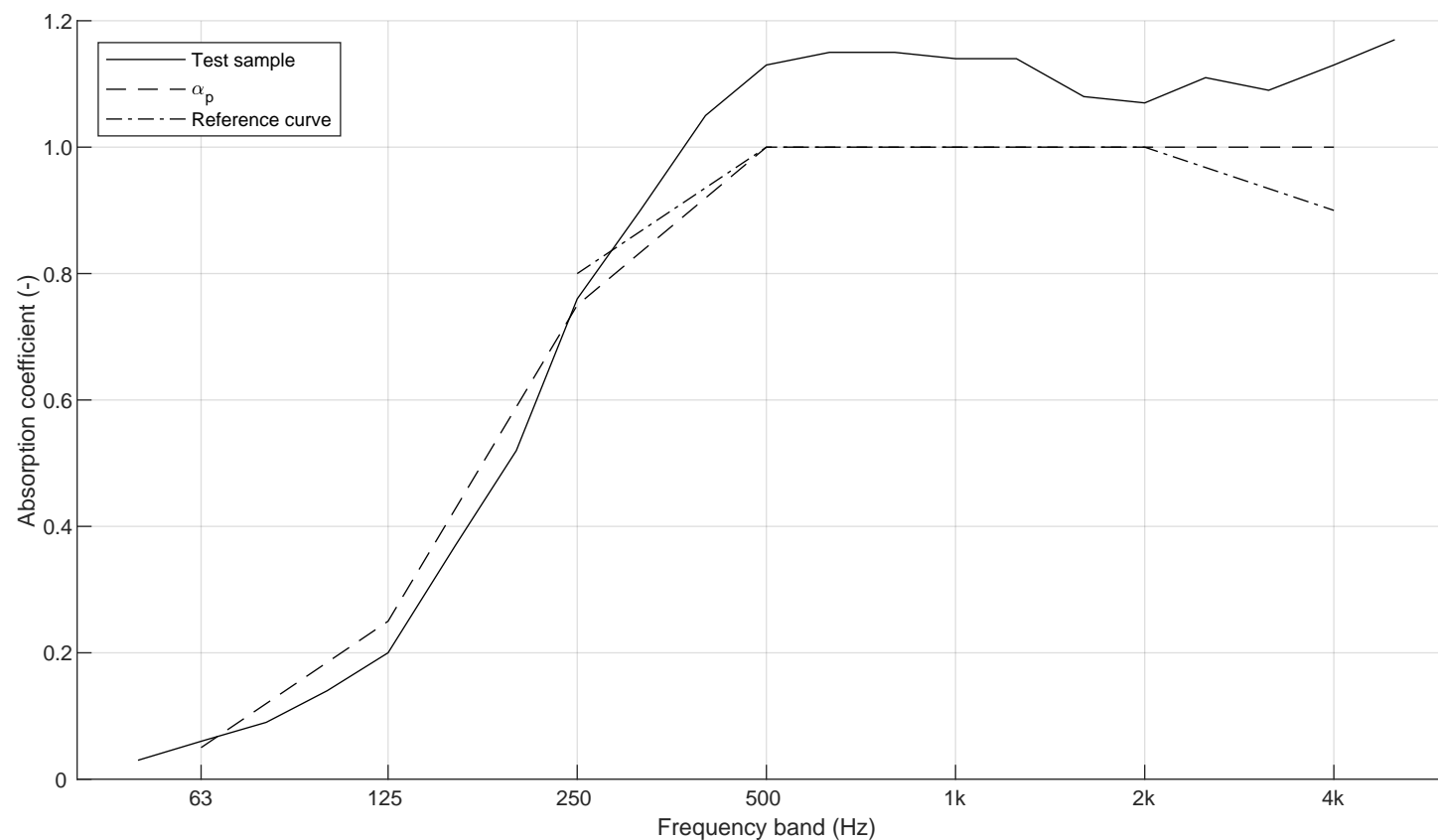
Air humidity: 44 % (empty: 44 %)

Air pressure: 100.6 kPa (empty: 100.5 kPa)

Size of specimen: 10.08 m²

Measurement date: 2023-12-18

Measured by: Joachim Schubert



$\alpha_w = 1.00$

Absorption class = A