

Convex Square 60

SOUND ABSORPTION COEFFICIENT ACCORDING TO ISO 354 AND ISO 11654

Measurement of sound absorption coefficient in a reverberation room



Report number:
19-725-M3
Date
2019-12-18

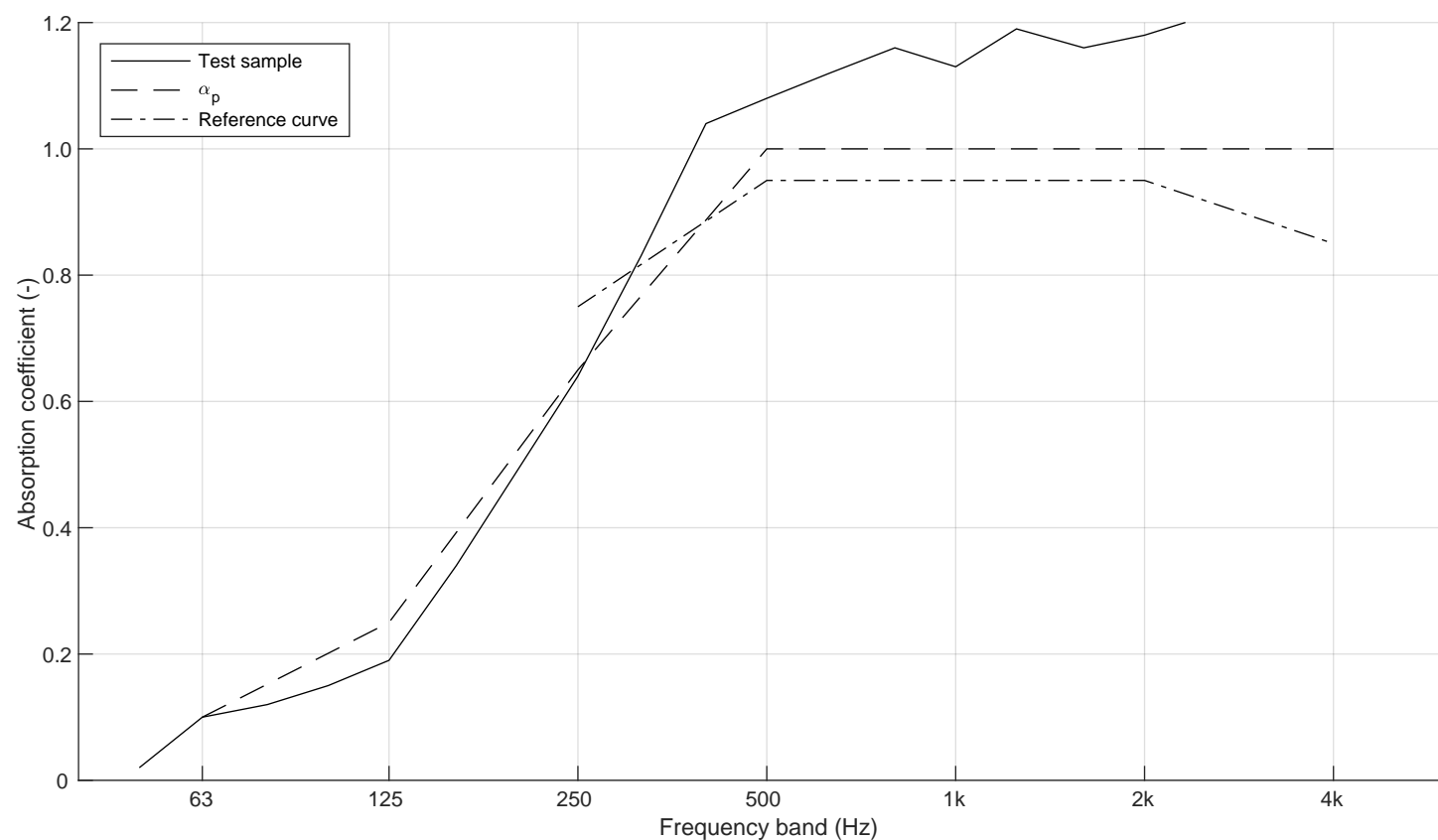
Frequency f [Hz]	Sound absorption coefficient	
	α_s	α_p
50	0.02	
63	0.10	0.10
80	0.12	
100	0.15	
125	0.19	0.25
160	0.34	
200	0.49	
250	0.64	0.65
315	0.83	
400	1.04	
500	1.08	1.00
630	1.12	
800	1.16	
1000	1.13	1.00
1250	1.19	
1600	1.16	
2000	1.18	1.00
2500	1.21	
3150	1.24	
4000	1.23	1.00
5000	1.27	

Client: Nordgröna AB
Manufacturer: Nordgröna AB
Product identification: Convex Square 60 (C-SQ-60)

Description of test specimen: Convex sound absorber made of reindeer moss on a back plate of MDF. Square shape with measurement 600 mm x 600 mm. Maximum height 120 mm.

Reverberation room volume: 200 m³
Temperature: 17.1 °C (empty: 18.6 °C)
Air humidity: 40 % (empty: 37 %)
Air pressure: 97.9 kPa (empty: 97.8 kPa)
Size of specimen: 10 m²

Measurement date: 2019-12-11
Measured by: Joachim Schubert



$\alpha_w = 0.95$

Absorption class = A