

Soundwave Ceramic Acoustic panel

SOUND ABSORPTION COEFFICIENT ACCORDING TO ISO 354 AND ISO 11654

Measurement of sound absorption coefficient in a reverberation room



Report number:
17-159-M9
Date
2017-06-07

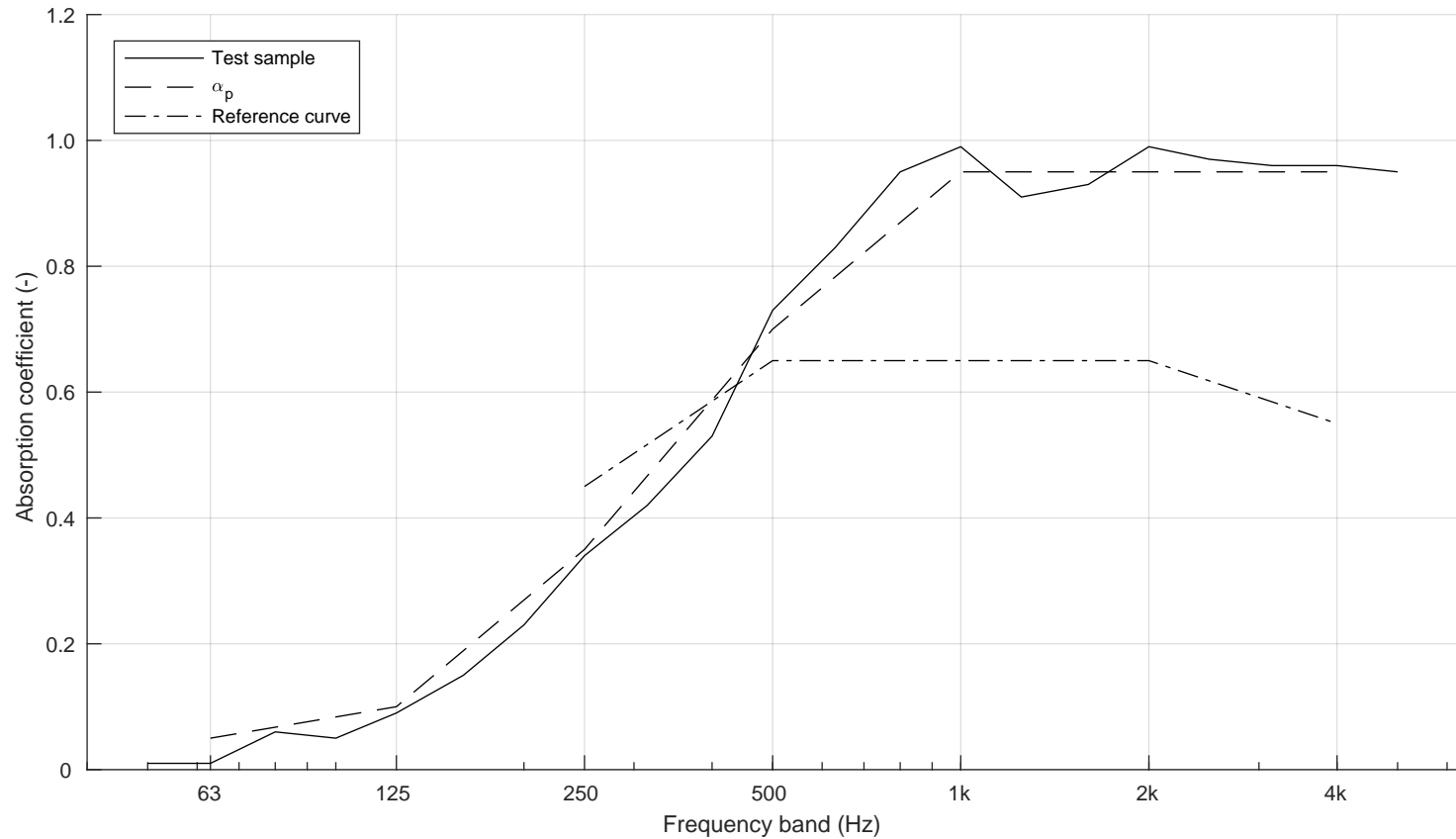
Frequency f [Hz]	Sound absorption coefficient	
	α_s	α_p
50	0.01	
63	0.01	0.05
80	0.06	
100	0.05	
125	0.09	0.10
160	0.15	
200	0.23	
250	0.34	0.35
315	0.42	
400	0.53	
500	0.73	0.70
630	0.83	
800	0.95	
1000	0.99	0.95
1250	0.91	
1600	0.93	
2000	0.99	0.95
2500	0.97	
3150	0.96	
4000	0.96	0.95
5000	0.95	

Client: Offecct
 Manufacturer: Offecct
 Product identification: Soundwave Ceramic

Description of test specimen: Absorber of moulded polyester fibre.
 6x5 panels, each panel size: 585 x 60 mm.
 Placed directly on floor, type A mounting.

Reverberation room volume: 200 m³
 Temperature: 18.7 °C (empty: 19.0 °C)
 Air humidity: 64 % (empty: 57 %)
 Air pressure: 98.9 kPa (empty: 98.8 kPa)
 Size of specimen: 10.3 m²

Measurement date: 2017-05-29
 Measured by: Carl Nyqvist



$\alpha_w = 0.65(\text{MH})$

Absorption class = C