

Even Better Stone 39 mm (1,5 inch) absorbent board (density 96 kg/m3) Type E-200 mounting

SOUND ABSORPTION COEFFICIENT ACCORDING TO ISO 354 AND ISO 11654

Measurement of sound absorption coefficient in a reverberation room

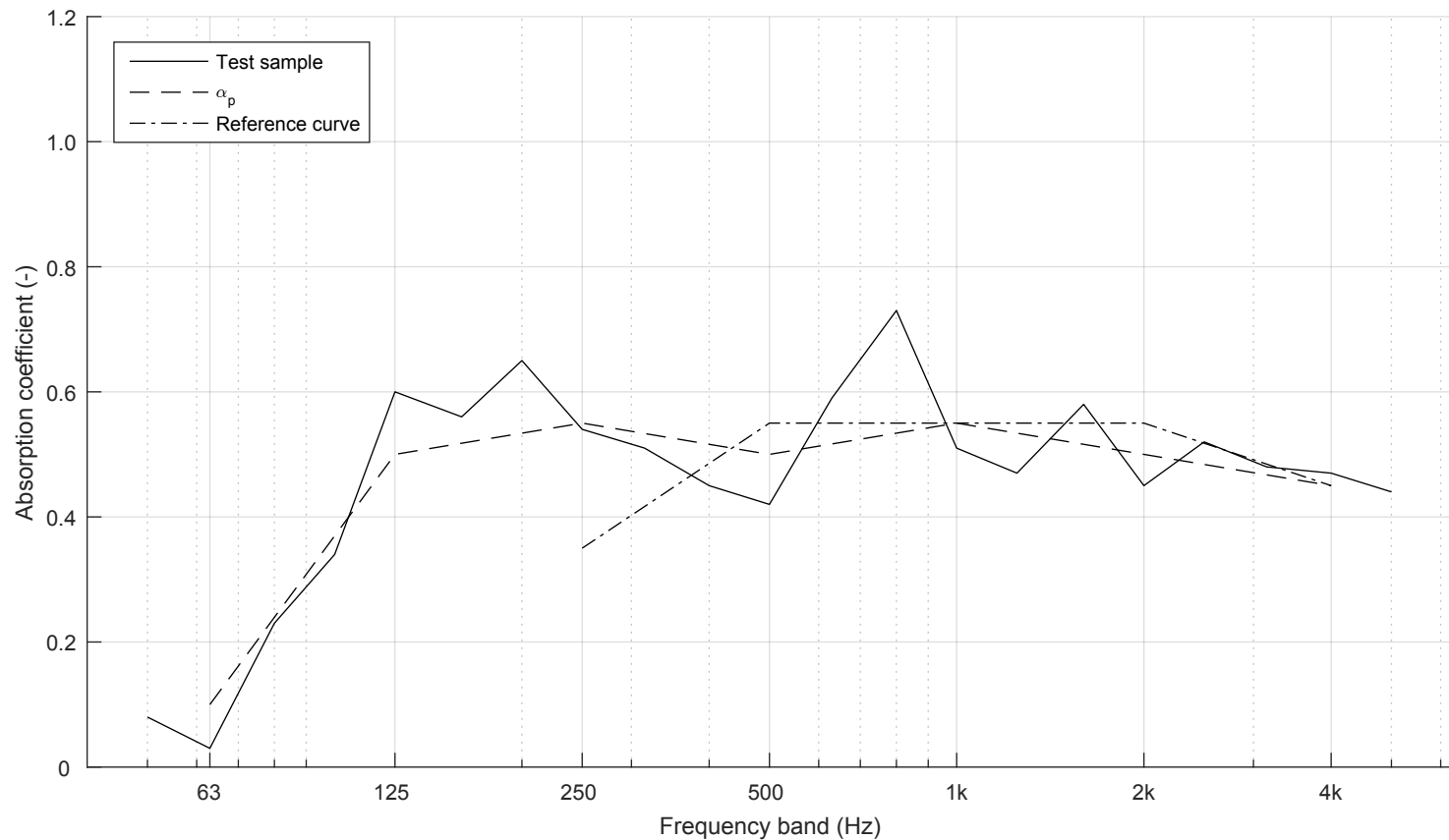


Report number:
15-251-R1-M11
Date
2016-08-24

Frequency f [Hz]	Sound absorption coefficient	
	α_s	α_p
50	0.08	
63	0.03	0.10
80	0.23	
100	0.34	
125	0.60	0.50
160	0.56	
200	0.65	
250	0.54	0.55
315	0.51	
400	0.45	
500	0.42	0.50
630	0.59	
800	0.73	
1000	0.51	0.55
1250	0.47	
1600	0.58	
2000	0.45	0.50
2500	0.52	
3150	0.48	
4000	0.47	0.45
5000	0.44	

Client: Fellert Acoustical Ceilings AB
 Manufacturer: Fellert Acoustical Ceilings AB
 Product identification: Even Better Stone
 Description of test specimen: 39 mm (1,5 inch) absorbent board
 (density 96 kg/m3)
 Type E-200 mounting
 Weight 4,2 kg/m2

Reverberation room volume: 200 m³
 Temperature: 16.3 °C (empty: 16.4 °C)
 Air humidity: 49 % (empty: 53 %)
 Air pressure: 98.6 kPa (empty: 98.4 kPa)
 Size of specimen: 8.93 m²
 Measurement date: 2015-12-22
 Measured by: Magnus Karlsson



$\alpha_w = 0.55$

Absorption class = D