

ARC

SOUND ABSORPTION AREA ACCORDING TO SS-EN ISO 354:2003 and ISO 20189:2018

Measurement of sound absorption area in a reverberation room

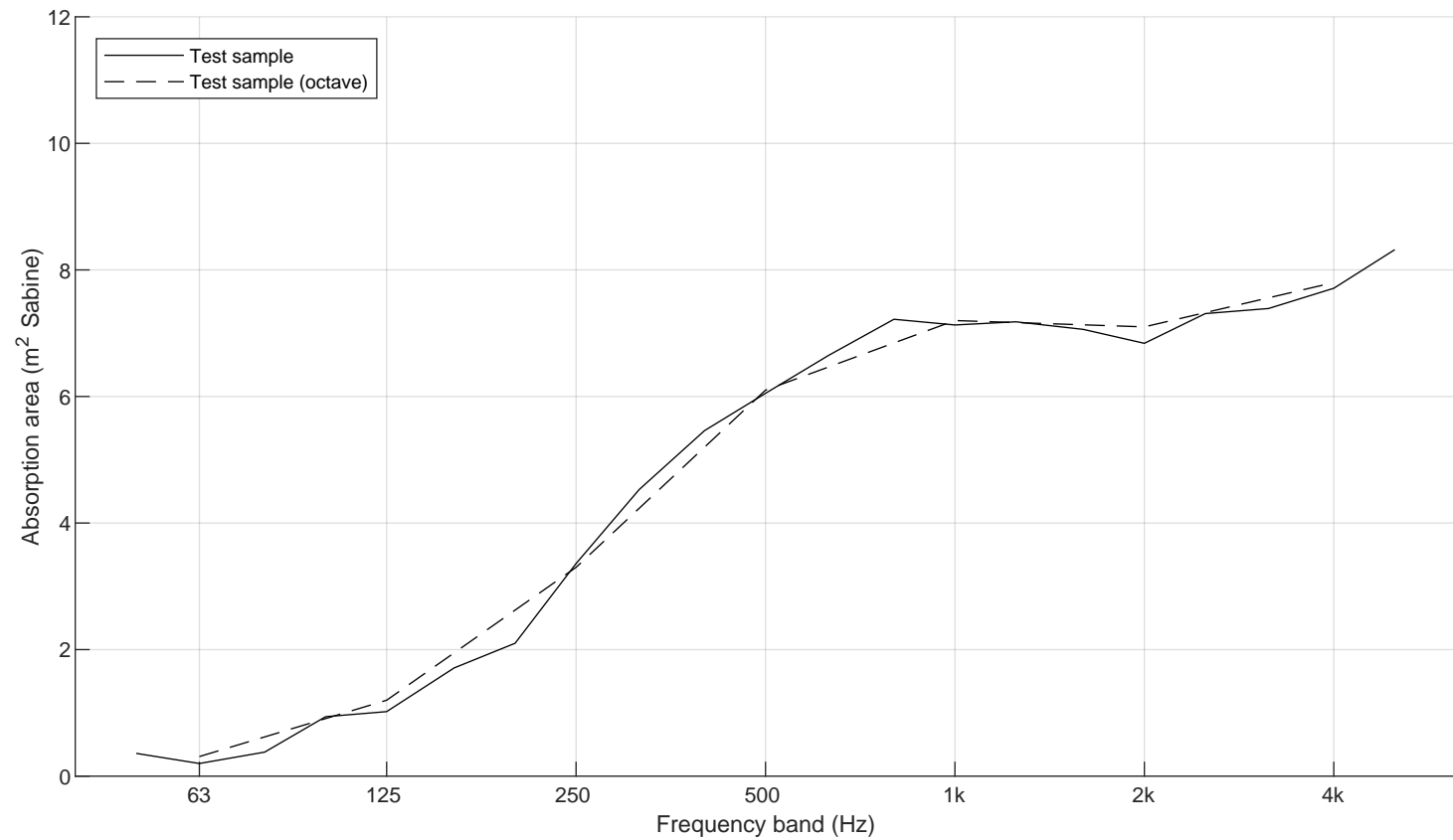


Report number:
2907-M28
Date
2023-05-25

Frequency f [Hz]	Sound absorption area per object [m ² Sabine]	
50	0.36	
63	0.20	0.31
80	0.38	
100	0.94	
125	1.02	1.2
160	1.71	
200	2.10	
250	3.36	3.3
315	4.53	
400	5.46	
500	6.05	6.1
630	6.65	
800	7.22	
1000	7.13	7.2
1250	7.18	
1600	7.06	
2000	6.84	7.1
2500	7.31	
3150	7.39	
4000	7.71	7.8
5000	8.32	

Client: Zilenzio
 Manufacturer: Zilenzio
 Product identification: ARC
 Description of test specimen: One assembly of 2 classic screens 1900x1000x70 mm with an ARC roof 1500x1000x330. Total dimensions are height: 2230 mm, length 1500 mm and width 1000 mm. Measured average for 3 positions.

Reverberation room volume: 200 m³
 Temperature: 18.9 °C (empty: 19.4 °C)
 Air humidity: 41 % (empty: 40 %)
 Air pressure: 99.6 kPa (empty: 99.6 kPa)
 Number of objects: 1
 Measurement date: 2023-05-11
 Measured by: Joachim Schubert



$$N_{10} = 1.6$$