

Blocks 1.05 m²

SOUND ABSORPTION AREA ACCORDING TO ISO 354 AND SS 25269

Measurement of sound absorption area in a reverberation room



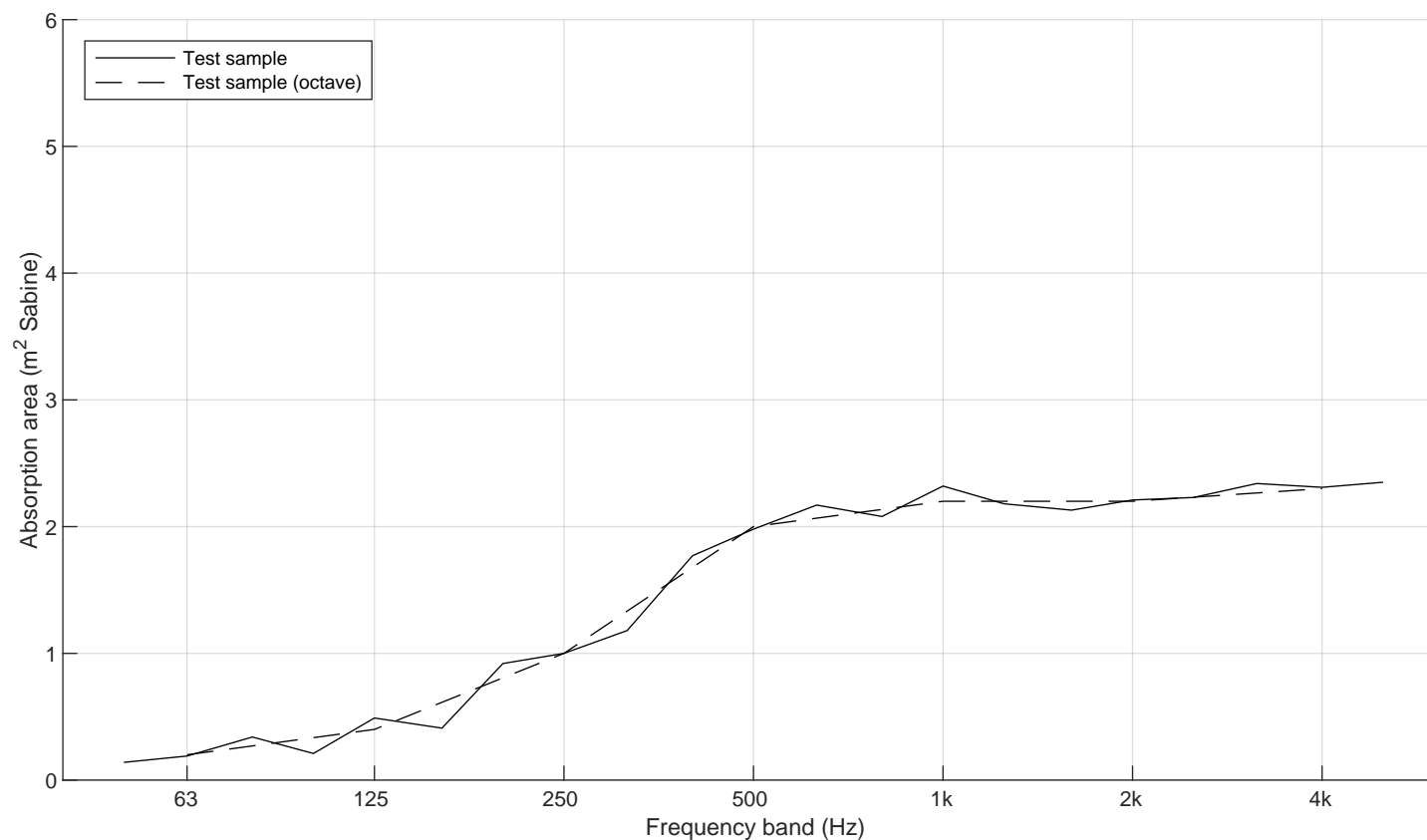
Report number:
19-733-M3
Date
2019-11-18

Frequency f [Hz]	Sound absorption area [m ² Sabine]	
50	0.14	
63	0.19	0.2
80	0.34	
100	0.21	
125	0.49	0.4
160	0.41	
200	0.92	
250	1.00	1.0
315	1.18	
400	1.77	
500	1.98	2.0
630	2.17	
800	2.08	
1000	2.32	2.2
1250	2.18	
1600	2.13	
2000	2.21	2.2
2500	2.23	
3150	2.34	
4000	2.31	2.3
5000	2.35	

Client: Zilenzio AB
Manufacturer: Zilenzio AB
Product identification: Blocks
Description of test specimen: Screen built up of Blocks with height 250 mm, thickness 300 mm, length 600 / 900 / 1200 mm.
Overall height of screen 1060 mm, width 1200 mm, thickness 300 mm.
Area 1.05 m².
Mounted standing on floor.

Reverberation room volume: 200 m³
Temperature: 14.7 °C (empty: 16.2 °C)
Air humidity: 44 % (empty: 41 %)
Air pressure: 97.9 kPa (empty: 97.9 kPa)
Number of specimens: 3

Measurement date: 2019-11-13
Measured by: Carl Nyqvist



$N_{10} = 5$

Blocks 1.80 m²

SOUND ABSORPTION AREA ACCORDING TO ISO 354 AND SS 25269

Measurement of sound absorption area in a reverberation room



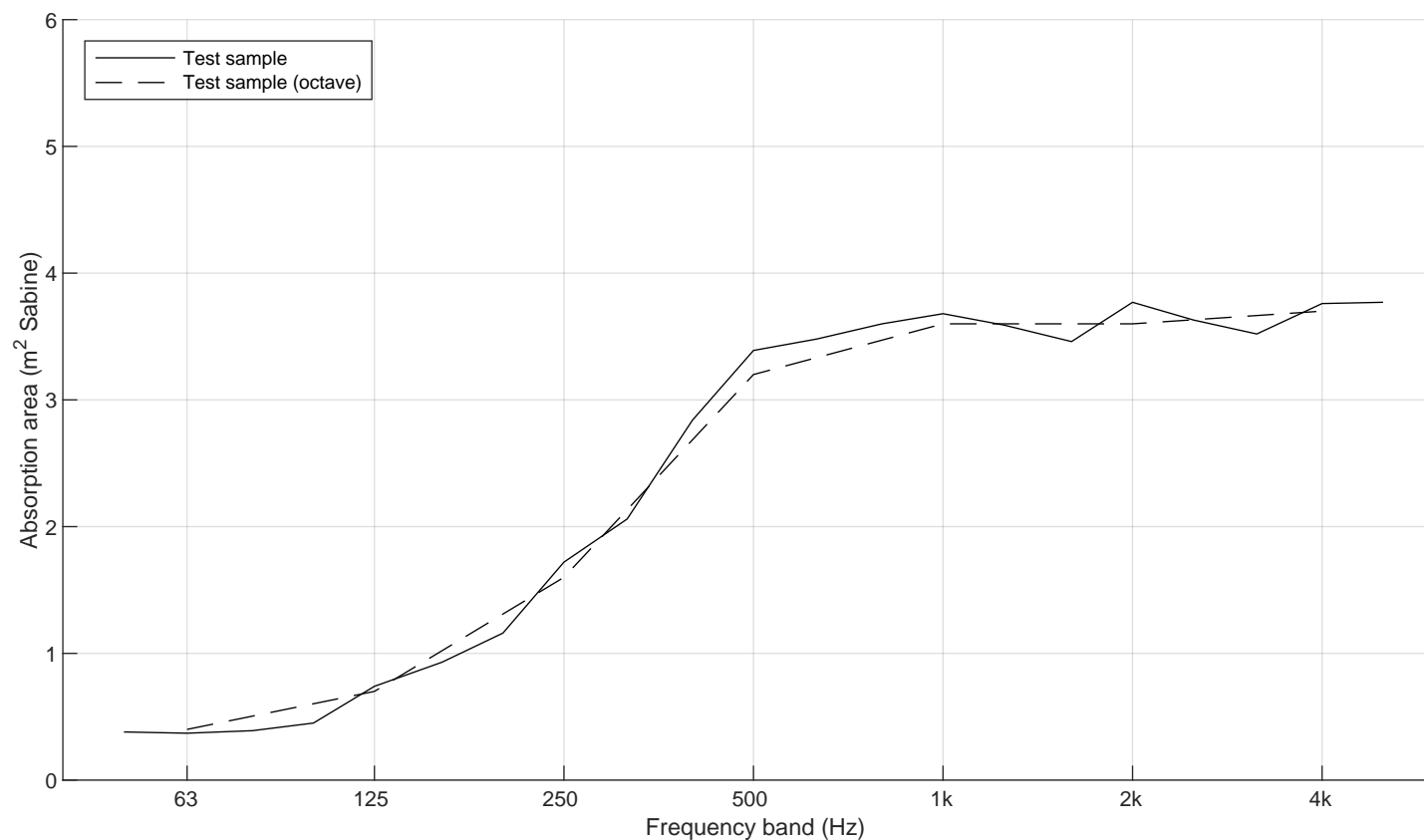
Report number:
19-733-M4
Date
2019-11-18

Frequency f [Hz]	Sound absorption area [m ² Sabine]	
50	0.38	
63	0.37	0.4
80	0.39	
100	0.45	
125	0.74	0.7
160	0.93	
200	1.16	
250	1.72	1.6
315	2.06	
400	2.84	
500	3.39	3.2
630	3.48	
800	3.60	
1000	3.68	3.6
1250	3.59	
1600	3.46	
2000	3.77	3.6
2500	3.63	
3150	3.52	
4000	3.76	3.7
5000	3.77	

Client: Zilenzio AB
 Manufacturer: Zilenzio AB
 Product identification: Blocks
 Description of test specimen: Screen built up of Blocks with height 250 mm, thickness 300 mm, length 600 / 900 / 1200 mm.
 Overall height of screen 1060 mm, width 1800 mm, thickness 300 mm.
 Area 1.80 m².
 Mounted standing on floor.

Reverberation room volume: 200 m³
 Temperature: 14.6 °C (empty: 16.2 °C)
 Air humidity: 44 % (empty: 41 %)
 Air pressure: 97.9 kPa (empty: 97.9 kPa)
 Number of specimens: 2

Measurement date: 2019-11-13
 Measured by: Carl Nyqvist



$N_{10} = 3.1$

Block 3.75 m²

SOUND ABSORPTION AREA ACCORDING TO ISO 354 AND SS 25269

Measurement of sound absorption area in a reverberation room



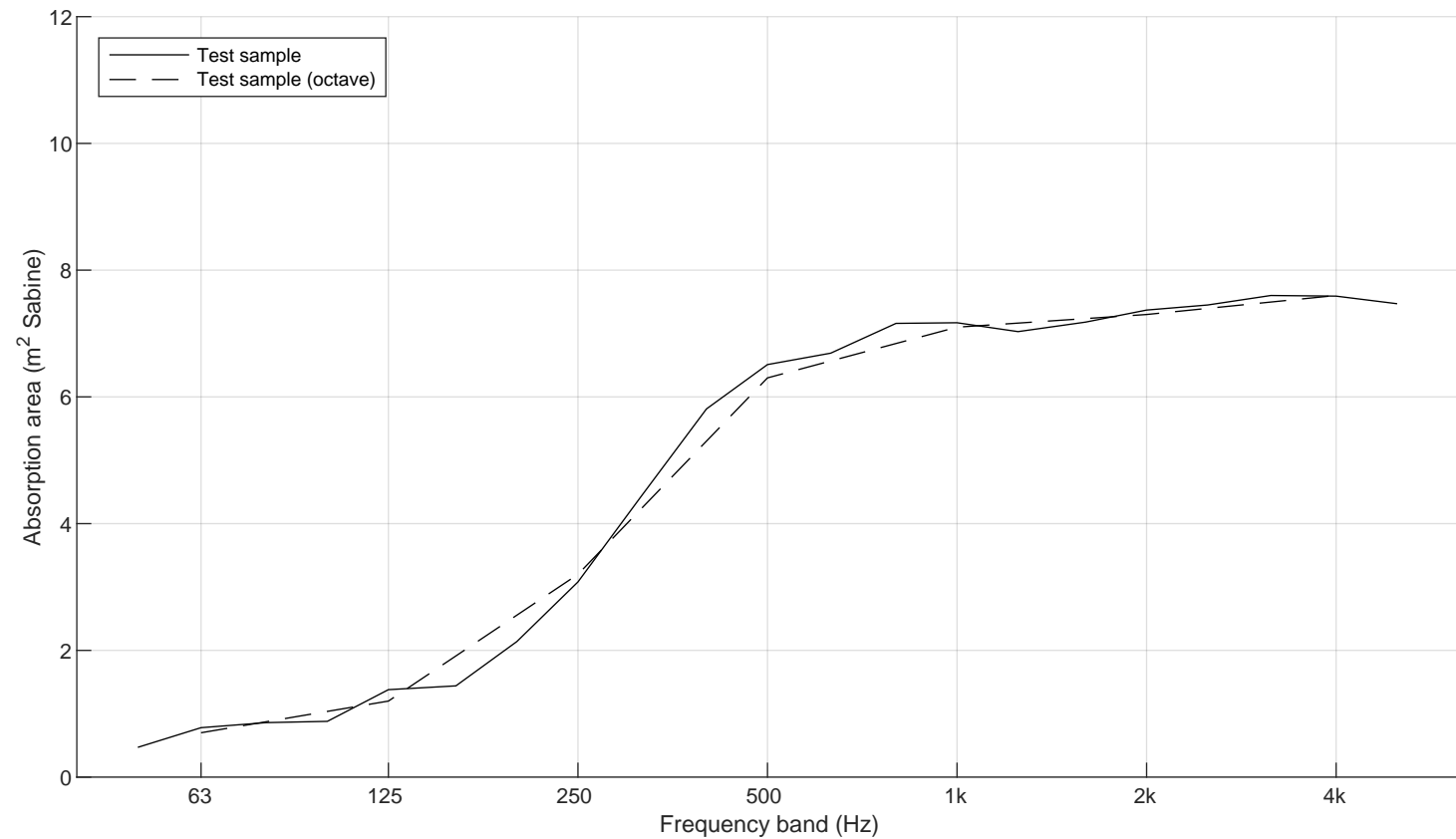
Report number:
19-733-M5
Date
2019-11-18

Frequency f [Hz]	Sound absorption area [m ² Sabine]	
50	0.47	
63	0.78	0.7
80	0.86	
100	0.88	
125	1.38	1.2
160	1.44	
200	2.14	
250	3.08	3.2
315	4.43	
400	5.81	
500	6.51	6.3
630	6.69	
800	7.16	
1000	7.17	7.1
1250	7.03	
1600	7.18	
2000	7.37	7.3
2500	7.45	
3150	7.60	
4000	7.59	7.6
5000	7.47	

Client: Zilenzio AB
Manufacturer: Zilenzio AB
Product identification: Blocks
Description of test specimen: Screen built up of Blocks with height 250 mm, thickness 300 mm, length 600 / 900 / 1200 mm.
Overall height of screen 1310 mm, width 3000 mm, thickness 300 mm.
Area 3.75 m².
Mounted standing on floor.

Reverberation room volume: 200 m³
Temperature: 14.5 °C (empty: 16.2 °C)
Air humidity: 45 % (empty: 41 %)
Air pressure: 97.9 kPa (empty: 97.9 kPa)
Number of specimens: 1

Measurement date: 2019-11-13
Measured by: Carl Nyqvist



$$N_{10} = 1.6$$