

Zilenzio Hikari Hanging Absorber Ø600

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:

3865-M4

Date

2024-11-04

Frequency f [Hz]	Sound absorption area per object [m ² Sabine]	
50	0.00	
63	0.02	0.01
80	0.00	
100	0.04	
125	0.04	0.05
160	0.07	
200	0.07	
250	0.15	0.13
315	0.17	
400	0.27	
500	0.34	0.34
630	0.42	
800	0.50	
1000	0.53	0.54
1250	0.58	
1600	0.59	
2000	0.59	0.60
2500	0.61	
3150	0.61	
4000	0.65	0.63
5000	0.63	

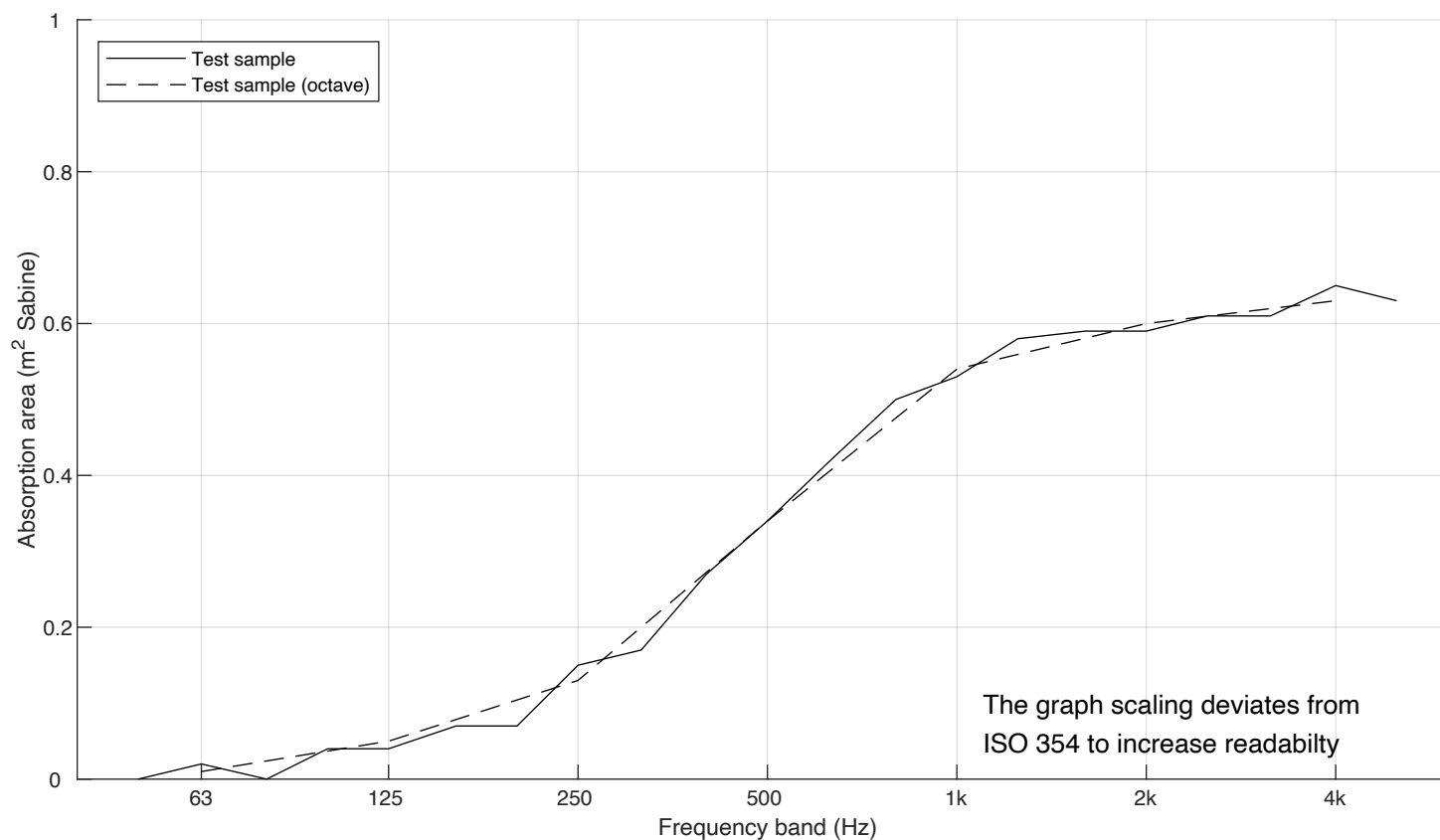
Client: Zilenzio
Manufacturer: Zilenzio
Product identification: Hikari Hanging Absorber Ø600

Description of test specimen: Octagon shaped sound absorber hanging from ceiling. Made of polyester fiber covered with fabric. The octagon shape fits in a circle with diameter 600 mm. Measured thickness is 53 mm.

Reverberation room volume: 200 m³
Temperature: 16.9 °C (empty: 16.8 °C)
Air humidity: 59 % (empty: 59 %)
Air pressure: 98.6 kPa (empty: 98.6 kPa)
Number of objects: 6

Measurement date: 2024-10-31

Measured by: Joachim Schubert



$N_{10} = 29$

Zilenzio Hikari Hanging Absorber Ø800

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:

3865-M5

Date

2024-11-04

Frequency f [Hz]	Sound absorption area per object [m ² Sabine]	
50	0.02	
63	0.03	0.03
80	0.03	
100	0.10	
125	0.08	0.11
160	0.16	
200	0.14	
250	0.38	0.32
315	0.43	
400	0.59	
500	0.68	0.67
630	0.73	
800	0.88	
1000	0.93	0.92
1250	0.96	
1600	0.97	
2000	0.98	0.99
2500	1.02	
3150	1.03	
4000	1.03	1.0
5000	1.01	

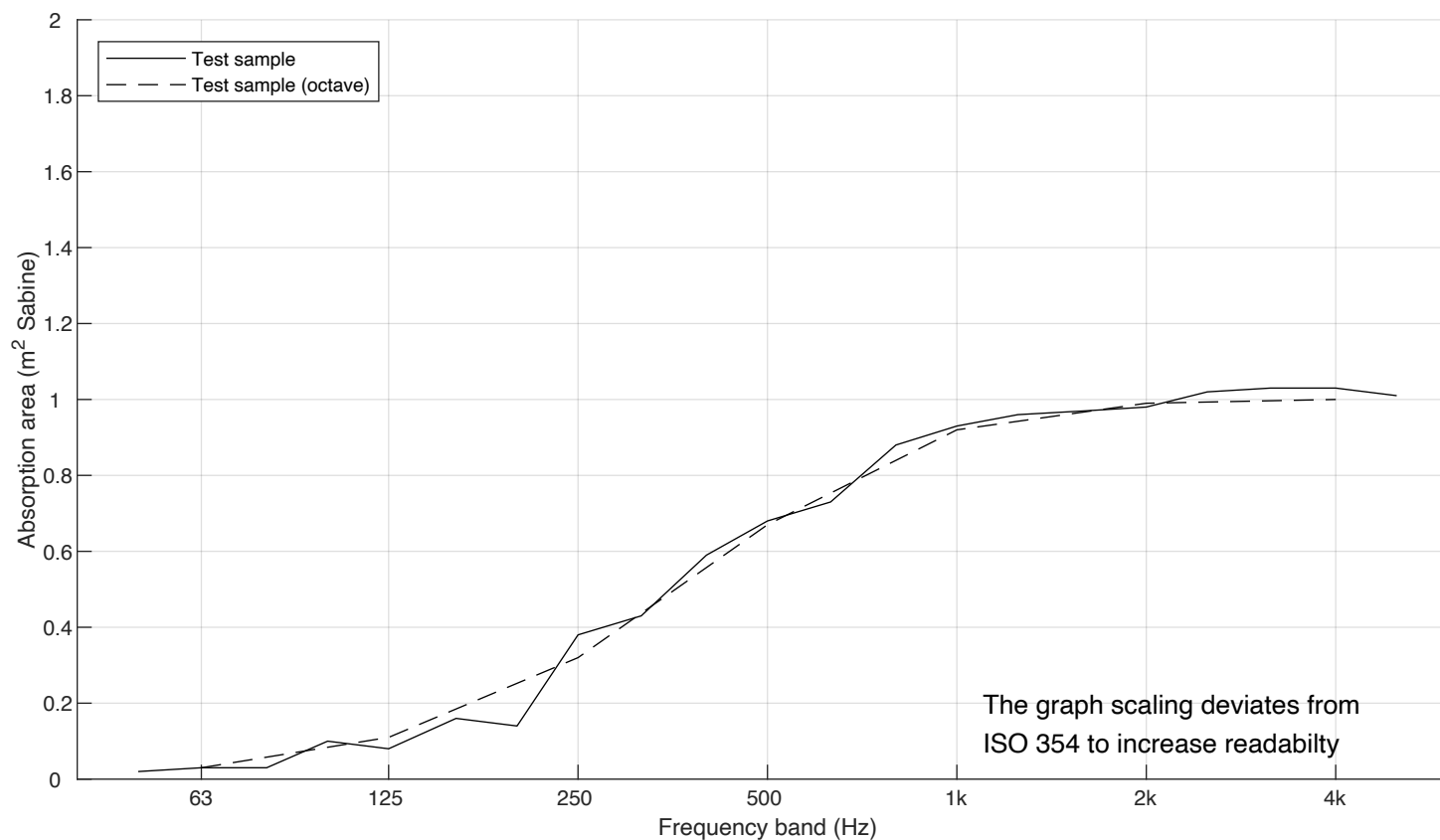
Client: Zilenzio
Manufacturer: Zilenzio
Product identification: Hikari Hanging Absorber Ø800

Description of test specimen: Octagon shaped sound absorber hanging from ceiling. Made of polyester fiber covered with fabric. The octagon shape fits in a circle with diameter 800 mm. Measured thickness is 53 mm.

Reverberation room volume: 200 m³
Temperature: 16.9 °C (empty: 16.8 °C)
Air humidity: 59 % (empty: 59 %)
Air pressure: 98.6 kPa (empty: 98.6 kPa)
Number of objects: 6

Measurement date: 2024-10-31

Measured by: Joachim Schubert



$N_{10} = 15$

Zilenzio Hikari Hanging Absorber Ø1100

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:

3865-M6

Date

2024-11-04

Frequency f [Hz]	Sound absorption area per object [m² Sabine]	
50	0.12	
63	0.09	0.12
80	0.14	
100	0.17	
125	0.25	0.25
160	0.33	
200	0.53	
250	0.73	0.71
315	0.86	
400	1.07	
500	1.24	1.2
630	1.36	
800	1.53	
1000	1.59	1.6
1250	1.65	
1600	1.71	
2000	1.78	1.8
2500	1.81	
3150	1.82	
4000	1.86	1.8
5000	1.83	

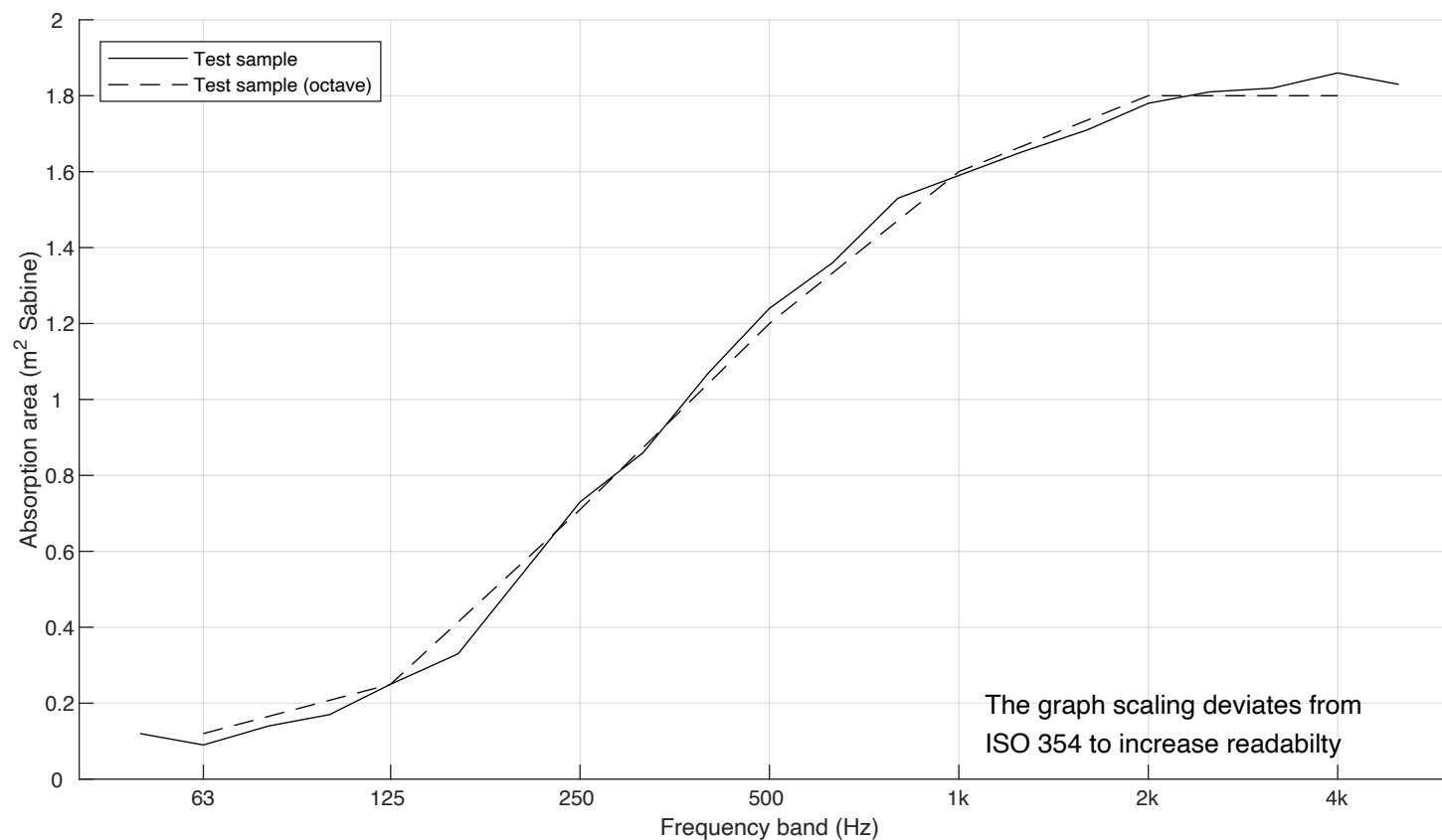
Client: Zilenzio
Manufacturer: Zilenzio
Product identification: Hikari Hanging Absorber Ø1100

Description of test specimen: Octagon shaped sound absorber hanging from ceiling. Made of polyester fiber covered with fabric. The octagon shape fits in a circle with diameter 1100 mm. Measured thickness is 53 mm.

Reverberation room volume: 200 m³
Temperature: 16.9 °C (empty: 16.8 °C)
Air humidity: 59 % (empty: 59 %)
Air pressure: 98.6 kPa (empty: 98.6 kPa)
Number of objects: 4

Measurement date: 2024-10-31

Measured by: Joachim Schubert



$$N_{10} = 8.2$$