

# Offecct Notes 850x850, 150 mm distance

SOUND ABSORPTION AREA ACCORDING TO ISO 354 AND SS 25269

Measurement of sound absorption area in a reverberation room



Report number:  
**16-209-M1**  
Date  
**2016-09-26**

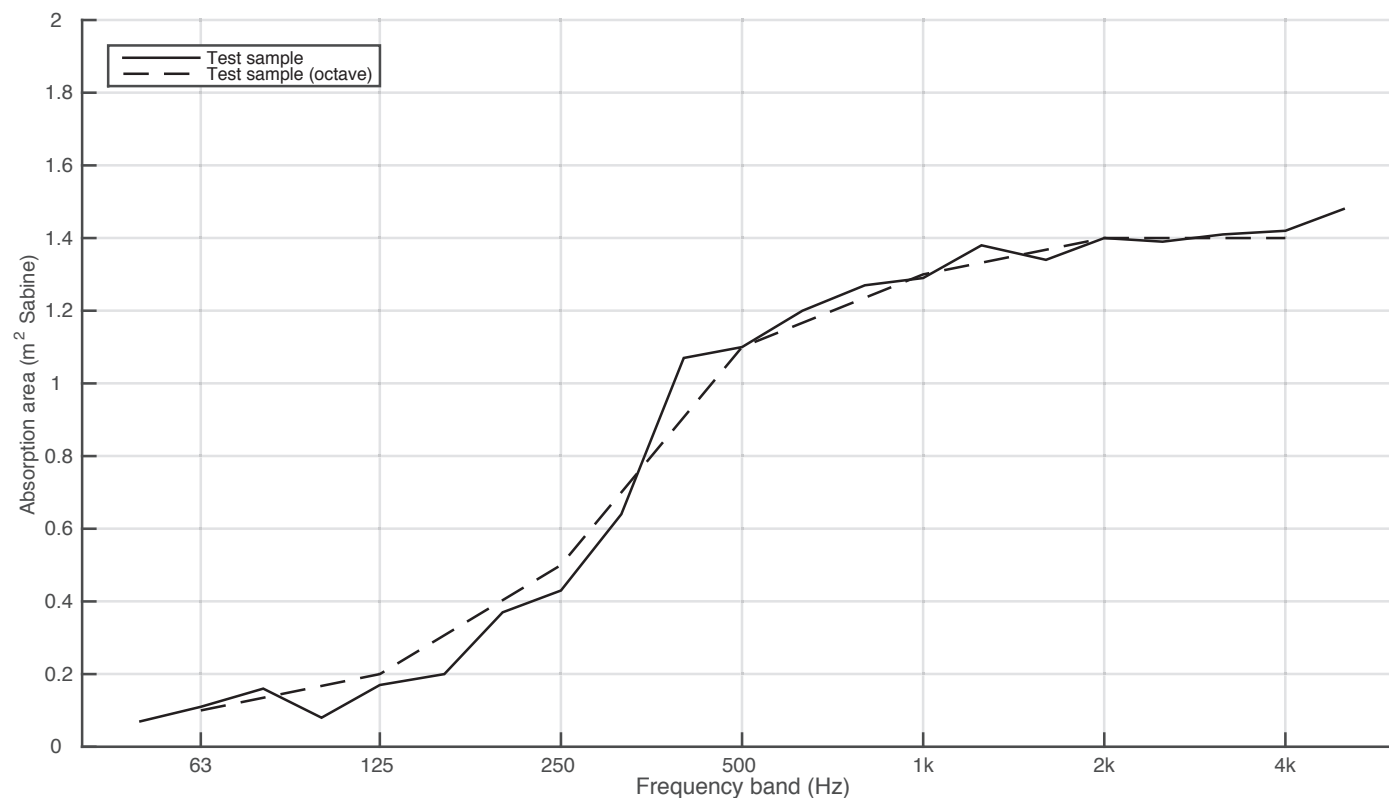
Frequency f [Hz]	Sound absorption area [m <sup>2</sup> Sabine]	
50	0.07	
63	0.11	0.1
80	0.16	
100	0.08	
125	0.17	0.2
160	0.20	
200	0.37	
250	0.43	0.5
315	0.64	
400	1.07	
500	1.10	1.1
630	1.20	
800	1.27	
1000	1.29	1.3
1250	1.38	
1600	1.34	
2000	1.40	1.4
2500	1.39	
3150	1.41	
4000	1.42	1.4
5000	1.48	

Client: Offecct  
 Manufacturer: Offecct  
 Product identification: Notes 850x850

Description of test specimen: Free hanging absorbers 850x850 mm. The absorbers were placed in line with 150 mm between each. Mounting height was 2.7 meters and downwards.  
 The scaling deviates from ISO 354 to increase readability.

Reverberation room volume: 200 m<sup>3</sup>  
 Temperature: 15.4 °C (empty: 15.3 °C)  
 Air humidity: 73% (empty: 73%)  
 Air pressure: 99.6 kPa (empty: 99.6 kPa)  
 Number of specimens: 3

Measurement date: 2016-09-23  
 Measured by: Johan Jernstedt



$N_{10} = 9.1$

# Offecct Notes 850x850, group of 3 objects

SOUND ABSORPTION AREA ACCORDING TO ISO 354 AND SS 25269

Measurement of sound absorption area in a reverberation room



Report number:  
**16-209-M2**  
Date  
**2016-09-26**

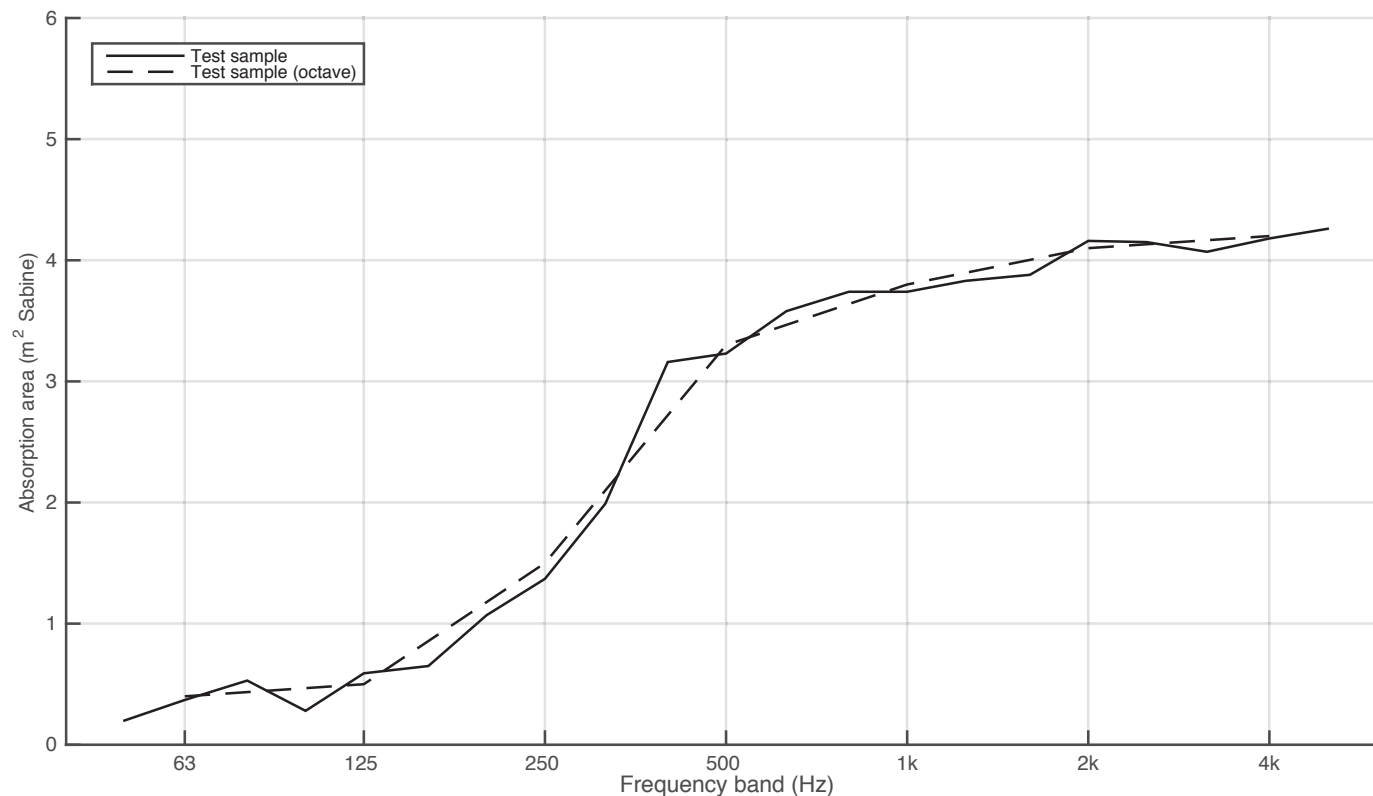
Frequency f [Hz]	Sound absorption area [m <sup>2</sup> Sabine]	
50	0.20	
63	0.37	0.4
80	0.53	
100	0.28	
125	0.59	0.5
160	0.65	
200	1.07	
250	1.37	1.5
315	1.99	
400	3.16	
500	3.23	3.3
630	3.58	
800	3.74	
1000	3.74	3.8
1250	3.83	
1600	3.88	
2000	4.16	4.1
2500	4.15	
3150	4.07	
4000	4.18	4.2
5000	4.26	

Client: Offecct  
 Manufacturer: Offecct  
 Product identification: Notes 850x850

Description of test specimen: A group of 3 free hanging absorbers 850x850 mm. The absorbers were placed in line without any distance between each. Mounting height was 2.7 meters and downwards.

Reverberation room volume: 200 m<sup>3</sup>  
 Temperature: 15.3 °C (empty: 15.3 °C)  
 Air humidity: 73% (empty: 73%)  
 Air pressure: 99.6 kPa (empty: 99.6 kPa)  
 Number of specimens: 1

Measurement date: 2016-09-23  
 Measured by: Johan Jernstedt



$N_{10} = 3$

# Offecct Notes 850x850, 1150x2100 and 850x850 group

SOUND ABSORPTION AREA ACCORDING TO ISO 354 AND SS 25269

Measurement of sound absorption area in a reverberation room



Report number:  
**16-209-M3**  
Date  
**2016-09-29**

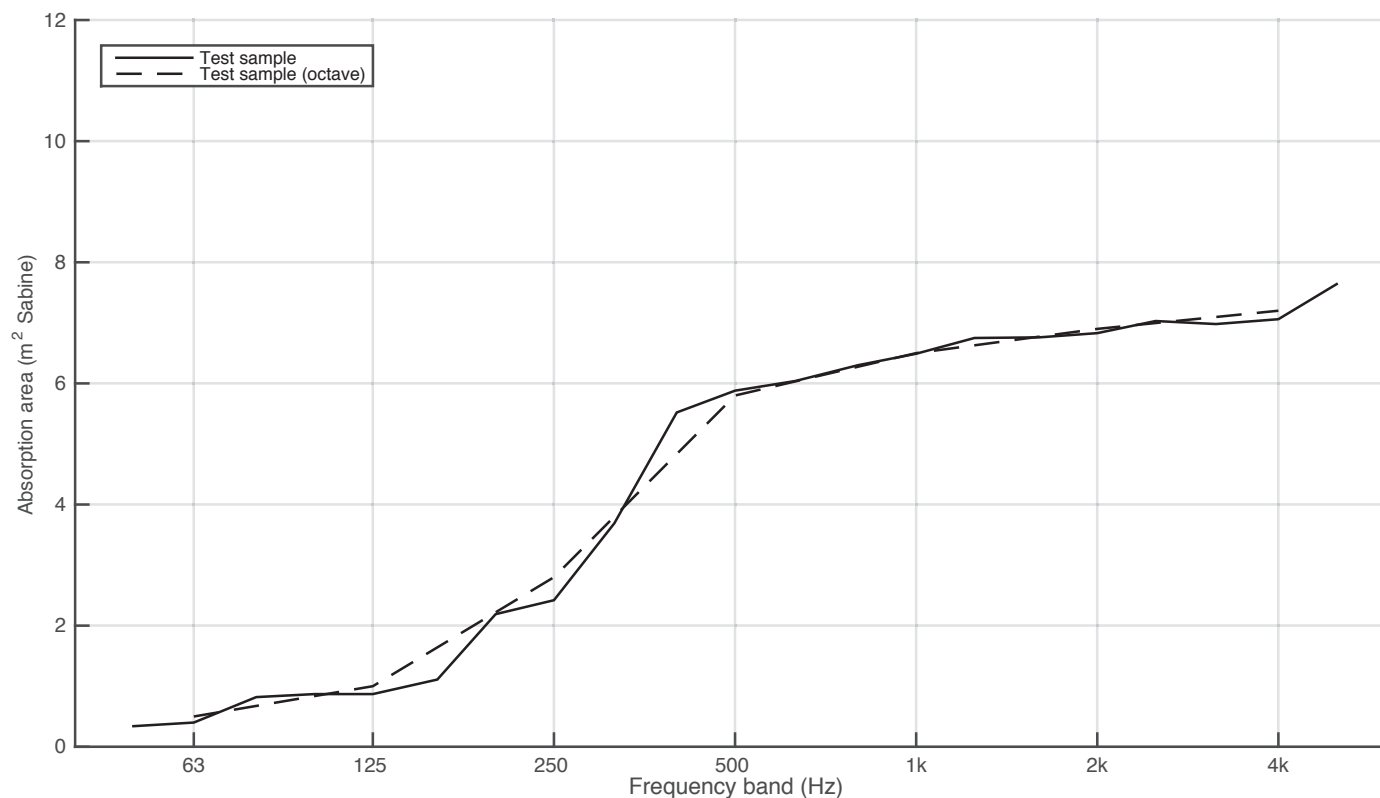
Frequency f [Hz]	Sound absorption area [m <sup>2</sup> Sabine]	
50	0.34	
63	0.40	0.5
80	0.82	
100	0.87	
125	0.87	1.0
160	1.11	
200	2.19	
250	2.42	2.8
315	3.69	
400	5.52	
500	5.88	5.8
630	6.04	
800	6.30	
1000	6.49	6.5
1250	6.75	
1600	6.76	
2000	6.83	6.9
2500	7.03	
3150	6.98	
4000	7.06	7.2
5000	7.64	

Client: Offecct  
 Manufacturer: Offecct  
 Product identification: Notes 850x850 and 1150x1150

Description of test specimen: A group of free hanging absorbers 850x850 mm, 1150x2100 and 850x850. The absorbers were placed in line without any distance between each. Mounting height was 2.7 meters and downwards.

Reverberation room volume: 200 m<sup>3</sup>  
 Temperature: 15.3 °C (empty: 15.3 °C)  
 Air humidity: 73 % (empty: 73 %)  
 Air pressure: 99.6 kPa (empty: 99.6 kPa)  
 Number of specimens: 1

Measurement date: 2016-09-23  
 Measured by: Johan Jernstedt



$N_{10} = 1.7$

# Offecct Notes 1150x2100, group of 2 objects

SOUND ABSORPTION AREA ACCORDING TO ISO 354 AND SS 25269

Measurement of sound absorption area in a reverberation room



Report number:  
**16-209-M4**  
Date  
**2016-09-26**

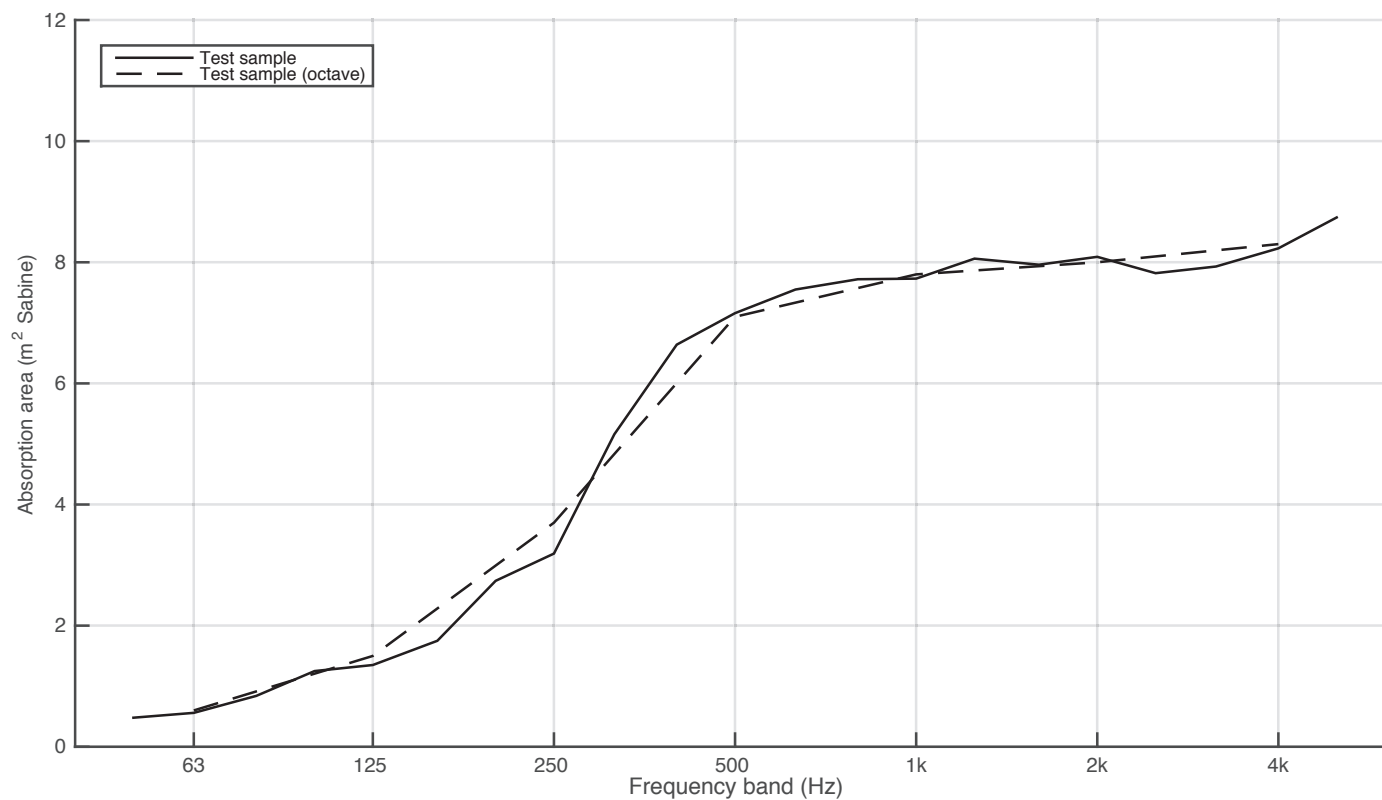
Frequency f [Hz]	Sound absorption area [m <sup>2</sup> Sabine]	
50	0.48	
63	0.56	0.6
80	0.84	
100	1.25	
125	1.35	1.5
160	1.75	
200	2.74	
250	3.19	3.7
315	5.16	
400	6.64	
500	7.16	7.1
630	7.55	
800	7.72	
1000	7.73	7.8
1250	8.06	
1600	7.96	
2000	8.09	8.0
2500	7.82	
3150	7.93	
4000	8.23	8.3
5000	8.74	

Client: Offecct  
 Manufacturer: Offecct  
 Product identification: Notes

Description of test specimen: A group of two free hanging absorbers 1150x2100. The absorbers were placed in line without any distance between each. Mounting height was 2.7 meters and downwards.

Reverberation room volume: 200 m<sup>3</sup>  
 Temperature: 15.3 °C (empty: 15.3 °C)  
 Air humidity: 73% (empty: 73%)  
 Air pressure: 99.6 kPa (empty: 99.6 kPa)  
 Number of specimens: 1

Measurement date: 2016-09-23  
 Measured by: Johan Jernstedt



$N_{10} = 1.4$

# Offecct Notes 850x850, 1150x2100 and 1950x1170, group of layered objects

SOUND ABSORPTION AREA ACCORDING TO ISO 354 AND SS 25269

Measurement of sound absorption area in a reverberation room



Report number:  
**16-209-M5**  
Date  
**2016-09-26**

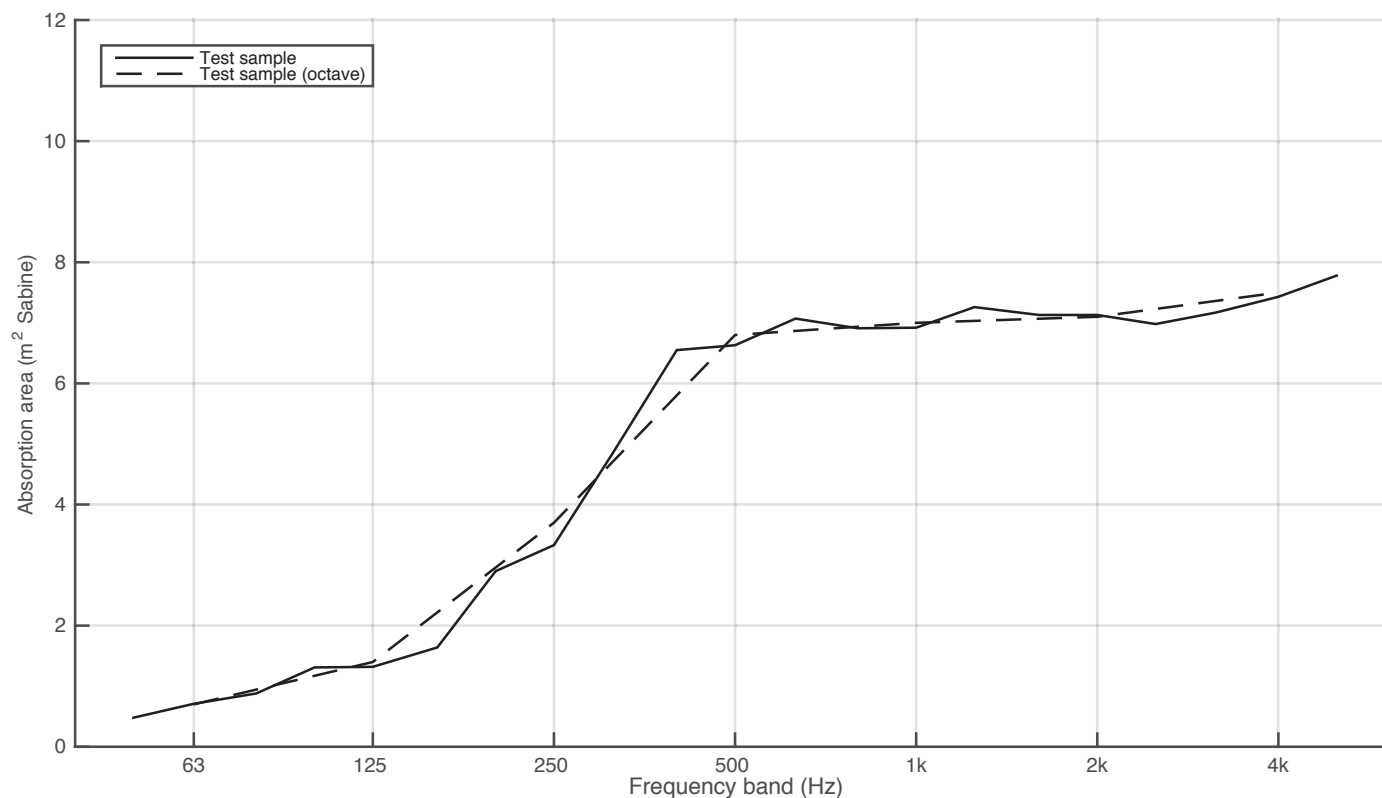
Frequency f [Hz]	Sound absorption area [m <sup>2</sup> Sabine]	
50	0.48	
63	0.71	0.7
80	0.88	
100	1.31	
125	1.32	1.4
160	1.64	
200	2.90	
250	3.33	3.7
315	4.89	
400	6.55	
500	6.63	6.8
630	7.07	
800	6.91	
1000	6.92	7.0
1250	7.26	
1600	7.13	
2000	7.13	7.1
2500	6.98	
3150	7.17	
4000	7.43	7.5
5000	7.78	

Client: Offecct  
 Manufacturer: Offecct  
 Product identification: Notes 850x850, 1150x2100 and 1950x1170

Description of test specimen: A group of free hanging absorbers 850x850 mm, 1150x850 and 1950x1170. The absorbers were placed in two lines with 70 mm distance between the lines. Mounting height was 2.7 meters and downwards.

Reverberation room volume: 200 m<sup>3</sup>  
 Temperature: 15.3 °C (empty: 15.3 °C)  
 Air humidity: 73% (empty: 73%)  
 Air pressure: 99.6 kPa (empty: 99.6 kPa)  
 Number of specimens: 1

Measurement date: 2016-09-23  
 Measured by: Johan Jernstedt



$N_{10} = 1.5$