

AKUFLOOR

Mått	N_{10}
1000x1400x40mm	5
1200x1400x40mm	4,3
1000x1600x40mm	4,5
1200x1600x40mm	3,8
800x1800x30 mm	5,6
840x1800x40 mm	4,8
1220x1800x40 mm	3,4
1680x1800x40 mm	2,6
1440x1900x40 mm	2,9



Akufloor 1800 x 800 x 30 mm

SOUND ABSORPTION AREA - CALCULATED FROM MEASUREMENTS

Calculated sound absorption area from ISO 354 reverberation room measurements

Report number:

19-724-M1

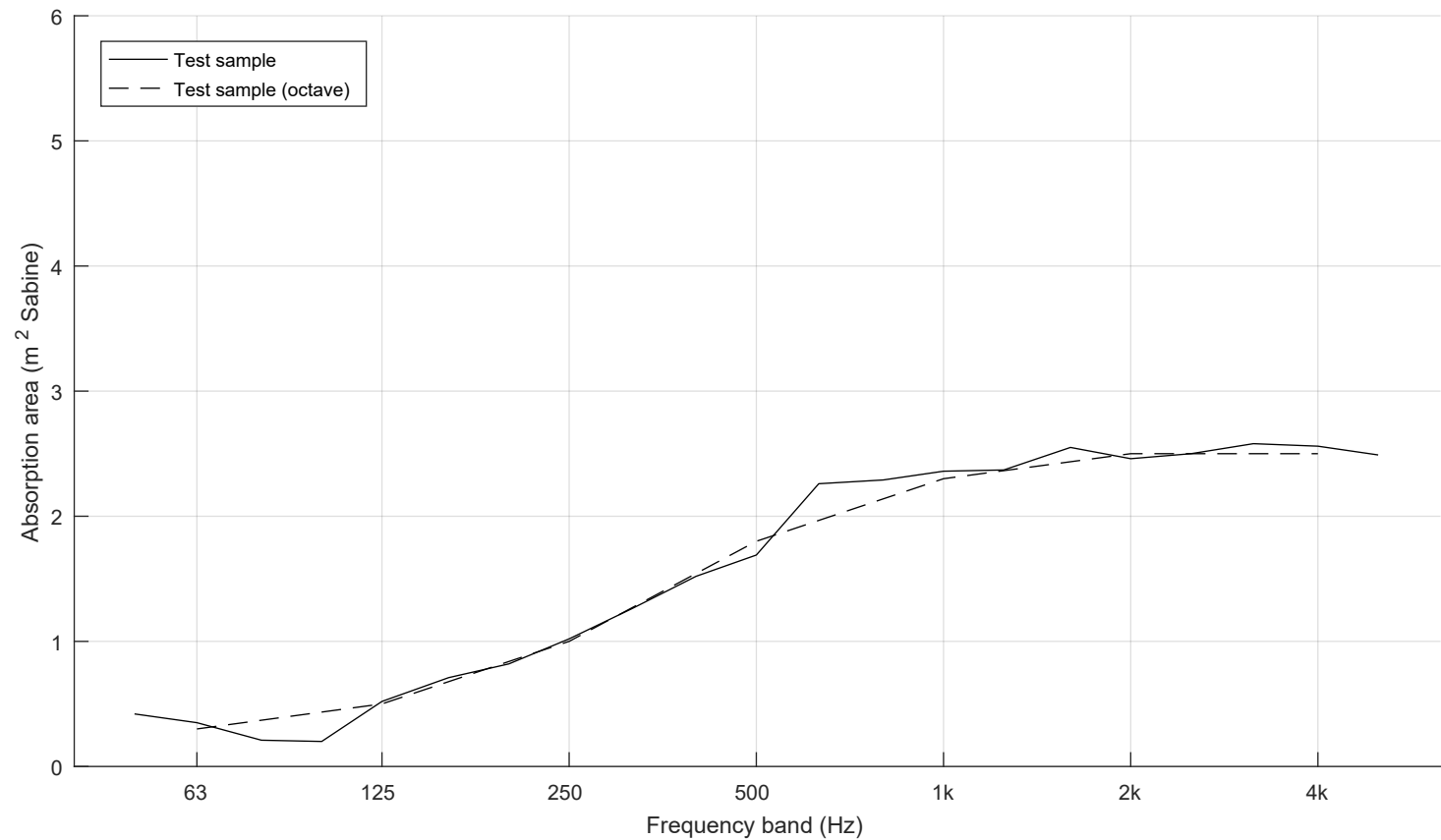
Date

2019-04-26

Frequency f [Hz]	Sound absorption area [m ² Sabine]	
50	0.42	
63	0.35	0.3
80	0.21	
100	0.20	
125	0.52	0.5
160	0.71	
200	0.82	
250	1.02	1.0
315	1.26	
400	1.52	
500	1.69	1.8
630	2.26	
800	2.29	
1000	2.36	2.3
1250	2.37	
1600	2.55	
2000	2.46	2.5
2500	2.50	
3150	2.58	
4000	2.56	2.5
5000	2.49	

Client: Akustil
Manufacturer: Akustil
Product identification: Akufloor 1800 x 800

Description of test specimen: Floor screen 1800 x 800. Sound absorption calculated from measurements of screen 2000 x 650 x 30, reported in 18-705-M6.



$$N_{10} = 5.6$$

Akufloor 840 x 1800 x 40

SOUND ABSORPTION AREA ACCORDING TO SS-EN ISO 354:2003, SS 25269:2013 and ISO 20189:2018

Measurement of sound absorption area in a reverberation room



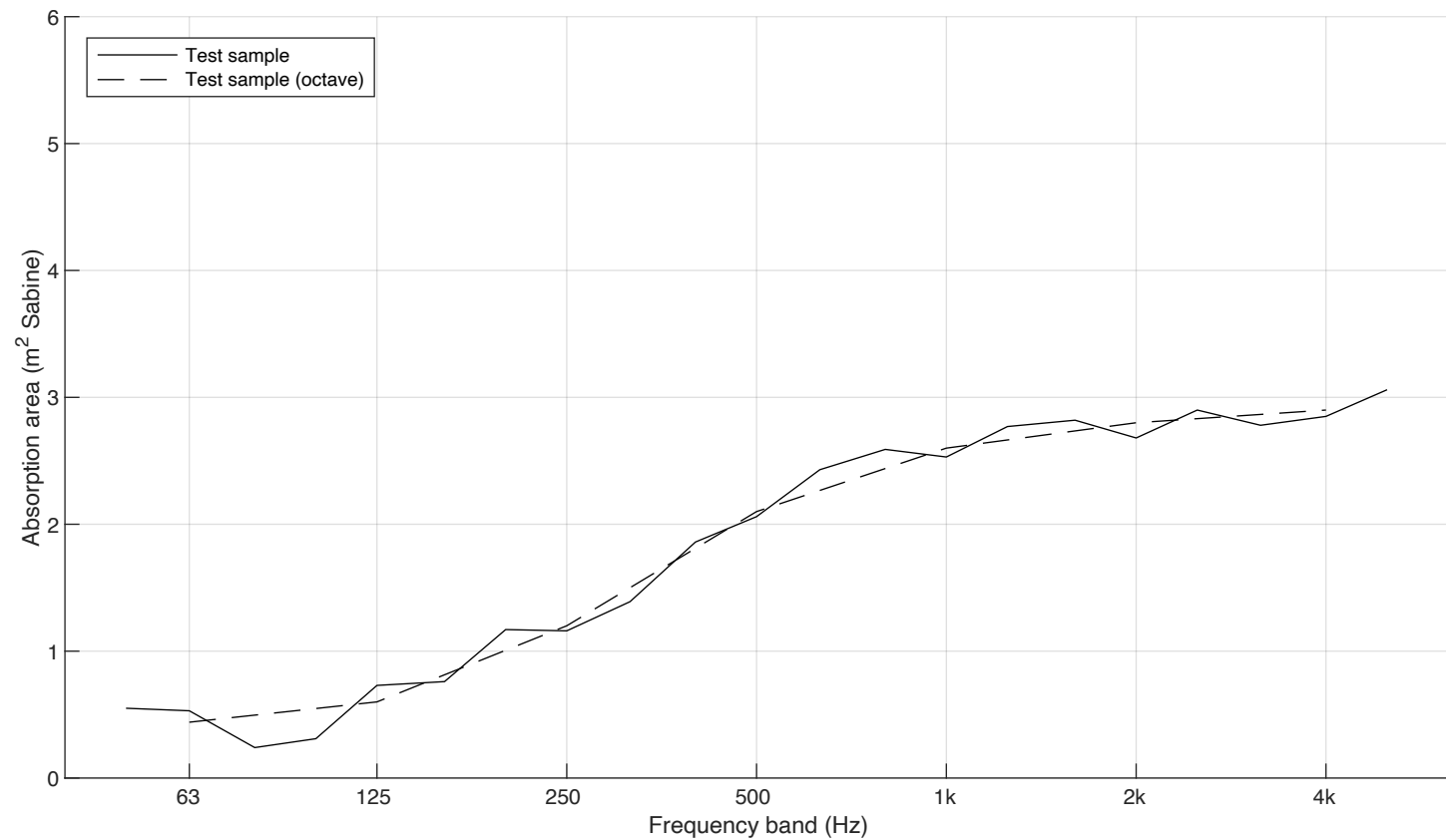
Report number:
21-726-M1
Date
2021-05-19

Frequency f [Hz]	Sound absorption area per object [m ² Sabine]	
50	0.55	
63	0.53	0.44
80	0.24	
100	0.31	
125	0.73	0.60
160	0.76	
200	1.17	
250	1.16	1.2
315	1.39	
400	1.86	
500	2.06	2.1
630	2.43	
800	2.59	
1000	2.53	2.6
1250	2.77	
1600	2.82	
2000	2.68	2.8
2500	2.90	
3150	2.78	
4000	2.85	2.9
5000	3.06	

Client: Akustil Sweden AB
 Manufacturer: Akustil Sweden AB
 Product identification: Akufloor 840 x 1800 x 40
 Description of test specimen: Sound absorbing floor screen with metal frame.
 Core of 100% recycled PET fibre dressed in polyester fabric.
 Size 840 x 1800 x 40 mm.
 Mounted standing on floor.

Reverberation room volume: 200 m³
 Temperature: 18.8 °C (empty: 18.8 °C)
 Air humidity: 45 % (empty: 45 %)
 Air pressure: 98.5 kPa (empty: 98.5 kPa)
 Number of objects: 2
 Measurement date: 2021-05-19
 Measured by: Carl Nyqvist

$$N_{10} = 4.8$$



Akufloor 1220 x 1800 x 40

SOUND ABSORPTION AREA ACCORDING TO SS-EN ISO 354:2003, SS 25269:2013 and ISO 20189:2018

Measurement of sound absorption area in a reverberation room



Report number:
21-726-M2
Date
2021-05-19

Frequency f [Hz]	Sound absorption area per object [m ² Sabine]	
50	0.91	
63	0.70	0.71
80	0.53	
100	0.51	
125	1.13	0.93
160	1.14	
200	1.72	
250	1.74	1.8
315	2.07	
400	2.44	
500	2.82	2.9
630	3.29	
800	3.58	
1000	3.51	3.6
1250	3.77	
1600	3.91	
2000	3.81	3.9
2500	3.93	
3150	3.94	
4000	4.22	4.2
5000	4.38	

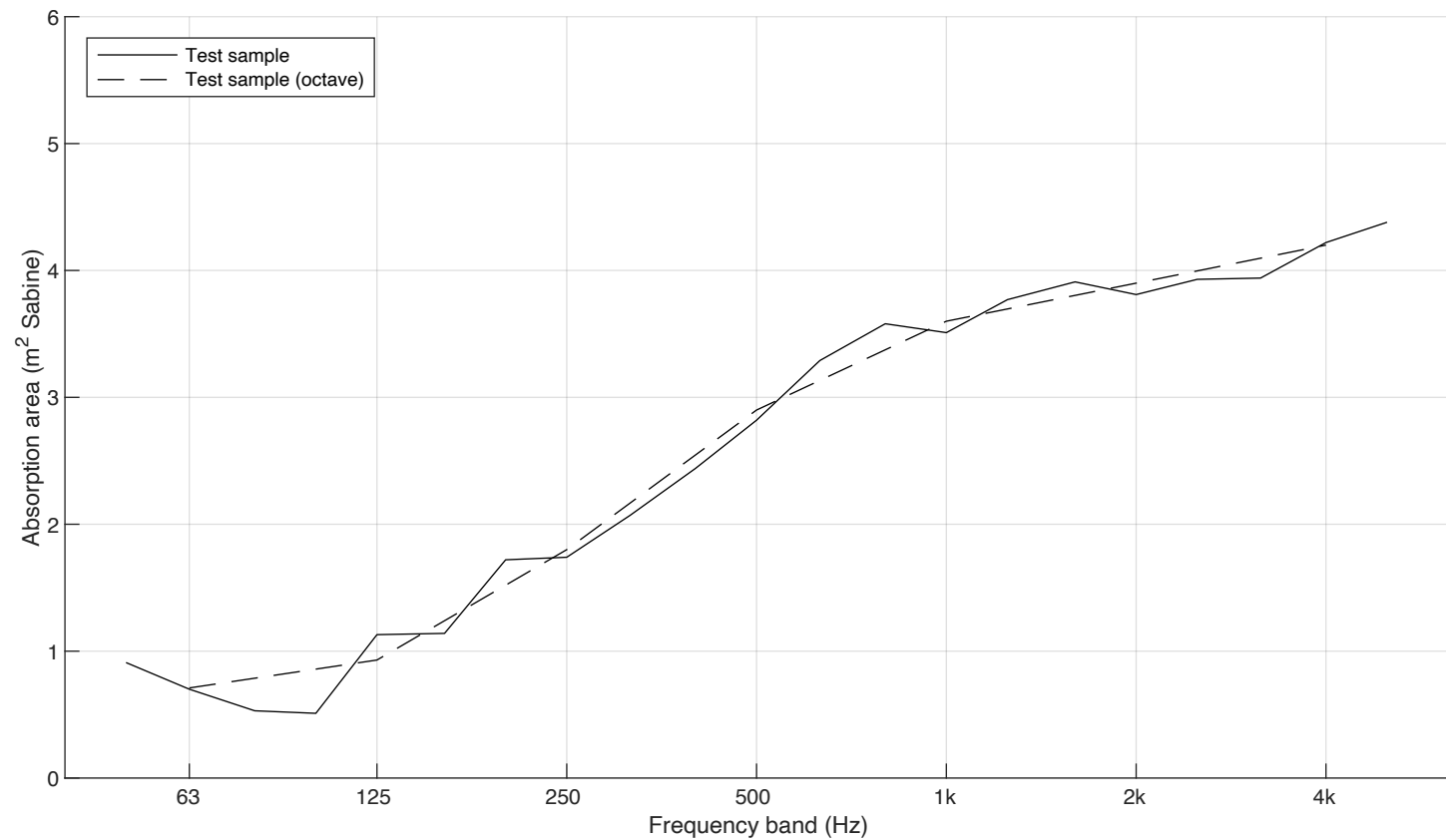
Client: Akustil Sweden AB
 Manufacturer: Akustil Sweden AB
 Product identification: Akufloor 1220 x 1800 x 40

Description of test specimen: Sound absorbing floor screen with metal frame.
 Core of 100% recycled PET fibre dressed in polyester fabric.
 Size 1220 x 1800 x 40 mm.
 Mounted standing on floor.

Reverberation room volume: 200 m³
 Temperature: 19.2 °C (empty: 18.8 °C)
 Air humidity: 45 % (empty: 45 %)
 Air pressure: 98.5 kPa (empty: 98.5 kPa)
 Number of objects: 1

Measurement date: 2021-05-19
 Measured by: Carl Nyqvist

$$N_{10} = 3.4$$



Akufloor 1680 x 1800 x 40

SOUND ABSORPTION AREA ACCORDING TO SS-EN ISO 354:2003, SS 25269:2013 and ISO 20189:2018

Measurement of sound absorption area in a reverberation room



Report number:
21-726-M3
Date
2021-05-19

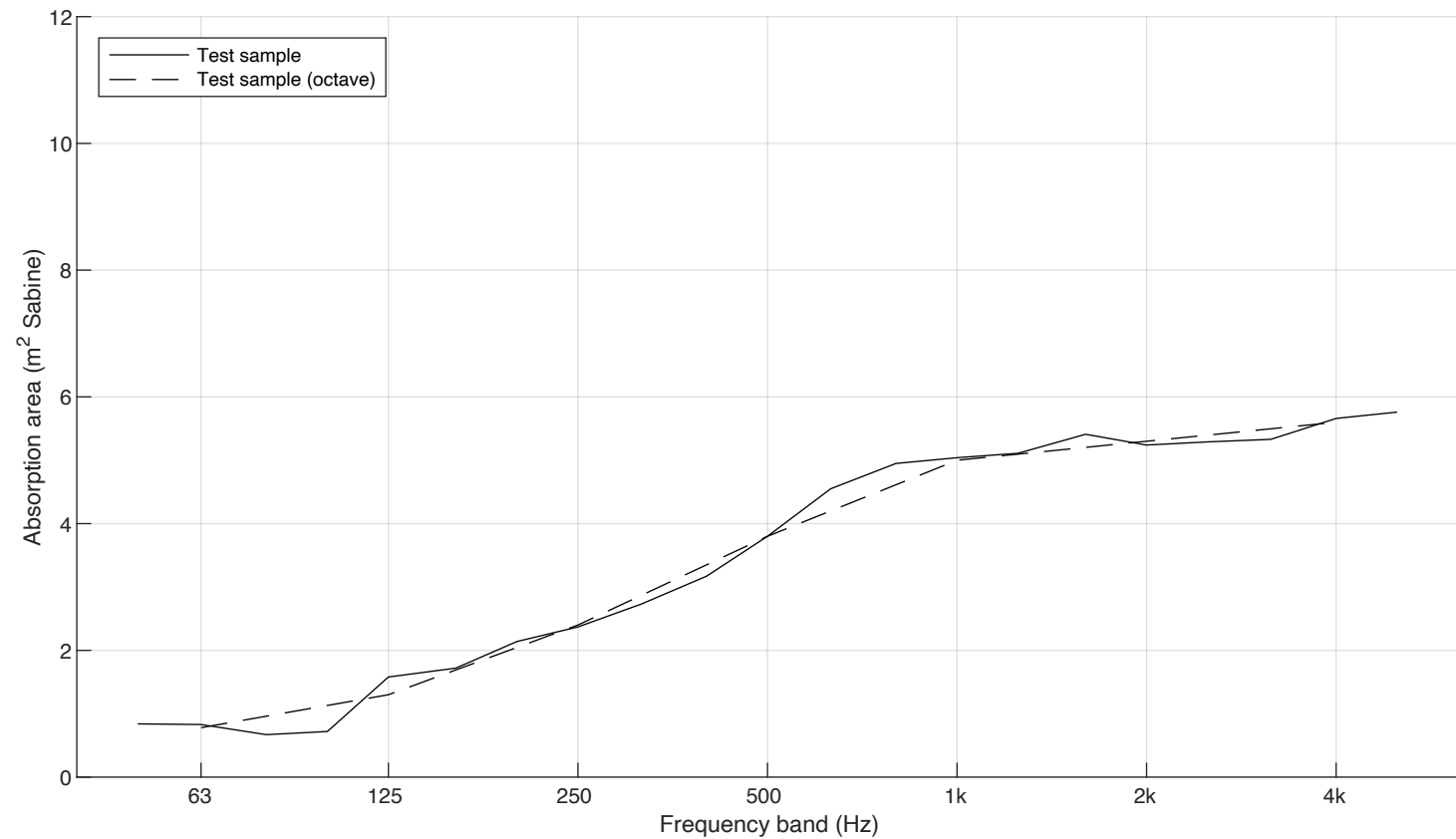
Frequency f [Hz]	Sound absorption area per object [m ² Sabine]	
50	0.84	
63	0.83	0.78
80	0.67	
100	0.72	
125	1.58	1.3
160	1.72	
200	2.14	
250	2.37	2.4
315	2.73	
400	3.17	
500	3.80	3.8
630	4.55	
800	4.95	
1000	5.04	5.0
1250	5.11	
1600	5.41	
2000	5.24	5.3
2500	5.29	
3150	5.33	
4000	5.66	5.6
5000	5.76	

Client: Akustil Sweden AB
Manufacturer: Akustil Sweden AB
Product identification: Akufloor 1680 x 1800 x 40

Description of test specimen: Sound absorbing floor screen with metal frame.
Core of 100% recycled PET fibre dressed in polyester fabric.
Size 1680 x 1800 x 40 mm.
Mounted standing on floor.

Reverberation room volume: 200 m³
Temperature: 18.9 °C (empty: 18.8 °C)
Air humidity: 45 % (empty: 45 %)
Air pressure: 98.5 kPa (empty: 98.5 kPa)
Number of objects: 1

Measurement date: 2021-05-19
Measured by: Carl Nyqvist



$$N_{10} = 2.6$$

Akufloor 1440 x 1900 x 40

SOUND ABSORPTION AREA - CALCULATED FROM MEASUREMENTS

Calculated sound absorption area from ISO 354:2003 reverberation room measurements, evaluated according to ISO 20189:2018



Report number:
21-726-M4
Date
2021-05-20

Frequency f [Hz]	Sound absorption area per object [m ² Sabine]	
50	0.86	
63	0.78	0.75
80	0.62	
100	0.65	
125	1.42	1.2
160	1.52	
200	1.99	
250	2.15	2.2
315	2.50	
400	2.92	
500	3.46	3.5
630	4.11	
800	4.47	
1000	4.51	4.5
1250	4.64	
1600	4.89	
2000	4.74	4.8
2500	4.82	
3150	4.85	
4000	5.16	5.1
5000	5.28	

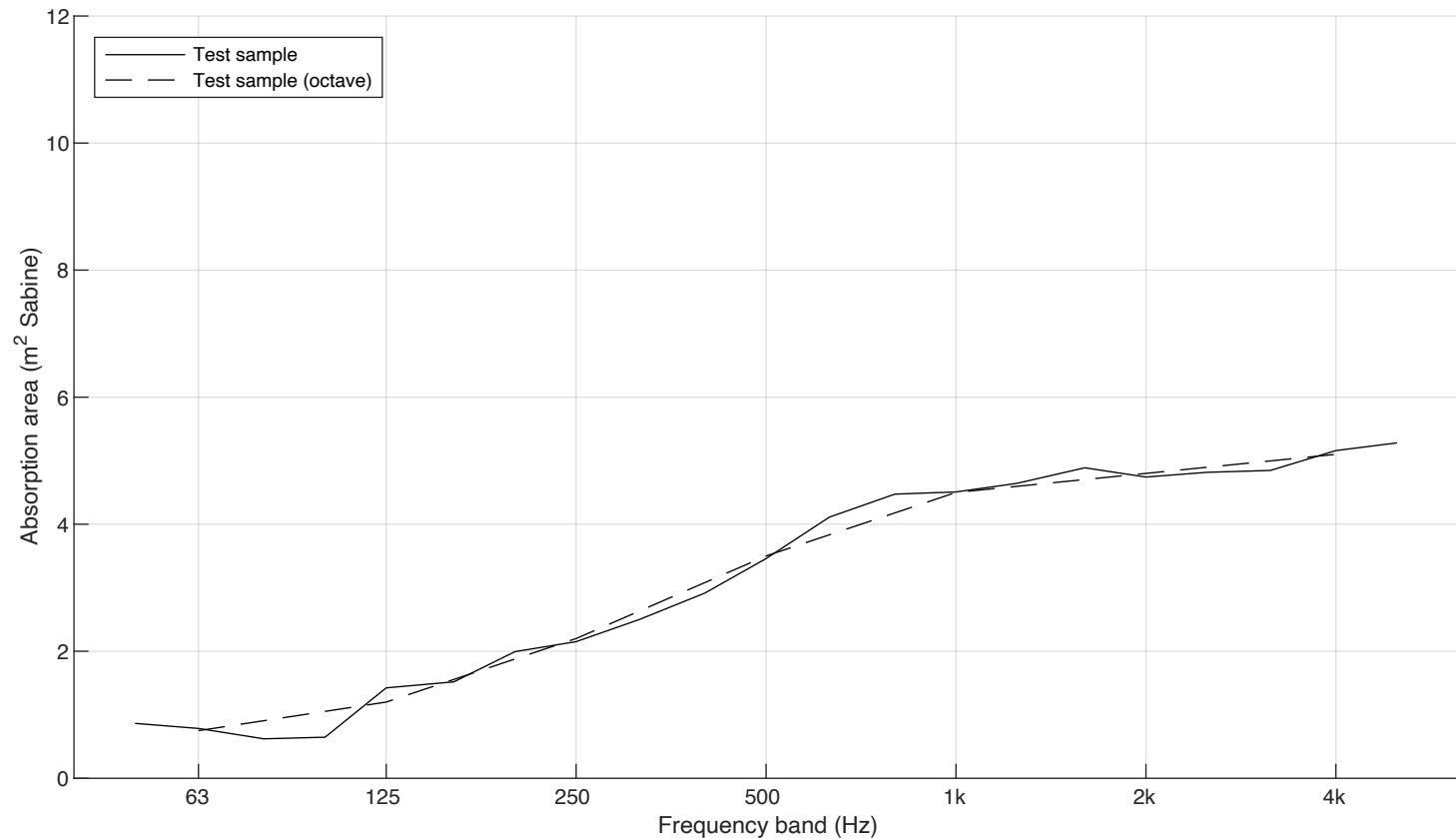
Client: Akustil Sweden AB
 Manufacturer: Akustil Sweden AB
 Product identification: Akufloor 1440 x 1900 x 40

Description of test specimen: Sound absorbing floor screen with metal frame.
 Core of 100% recycled PET fibre dressed in polyester fabric.
 Size 1440 x 1900 x 40 mm.

Interpolation according to ISO 20189:2018
 appendix E, based on measurements:

21-726-M2 - Akufloor 1220x1800x40.txt
 and
 21-726-M3 - Akufloor 1680x1800x40.txt

	Height	Width
Object 1 size	1800	1220
Object 2 size	1800	1680
Interpolated object size	1900	1440
Area difference 10 %		



$N_{10} = 2.9$

Akufloor 1000 x 1400 x 40

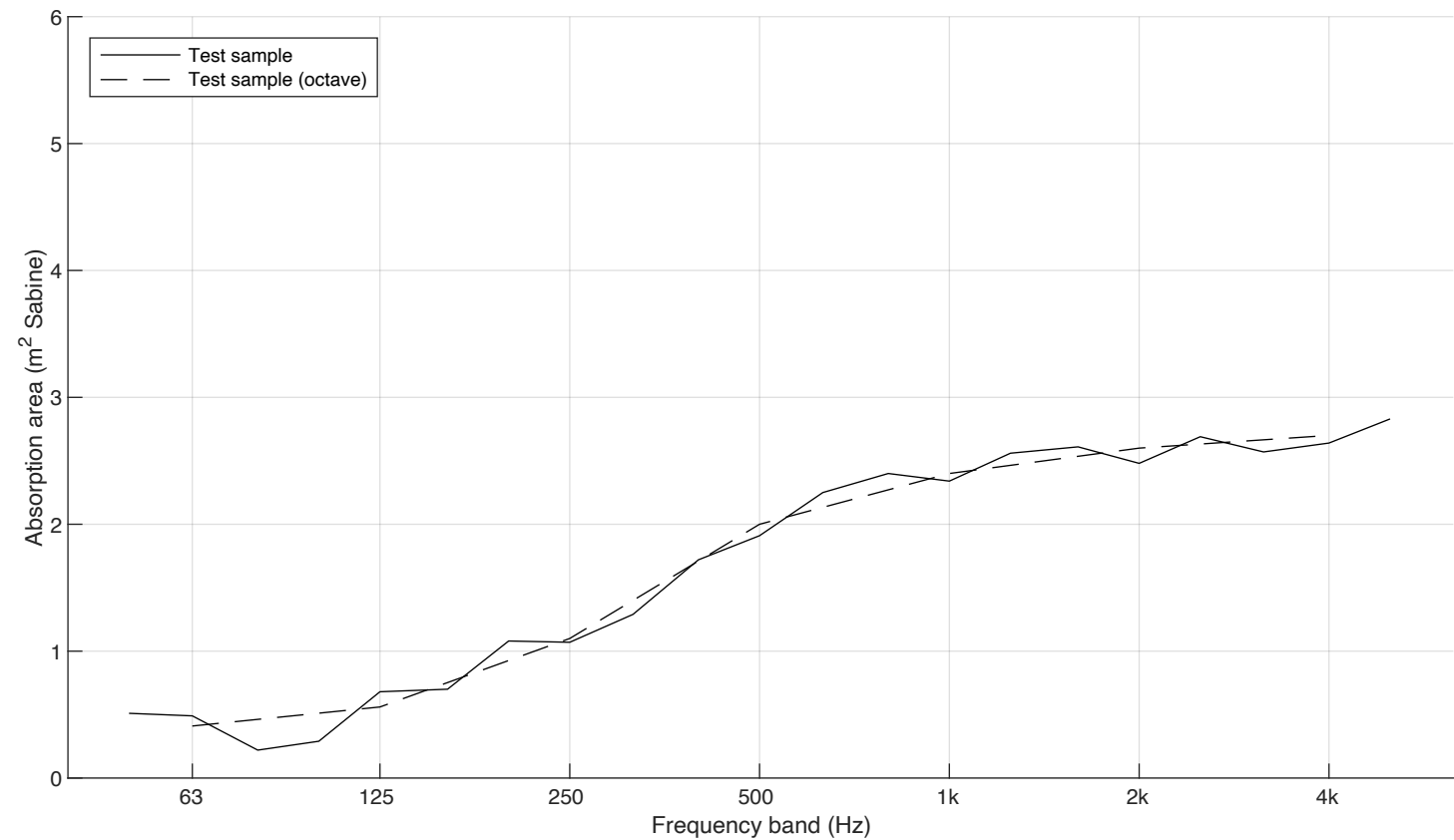
SOUND ABSORPTION AREA - calculated from measurements

Report number:
2719-PM1-M1
Date
2022-11-17

Frequency f [Hz]	Sound absorption area per object [m ² Sabine]	
50	0.51	
63	0.49	0.41
80	0.22	
100	0.29	
125	0.68	0.56
160	0.70	
200	1.08	
250	1.07	1.1
315	1.29	
400	1.72	
500	1.91	2.0
630	2.25	
800	2.40	
1000	2.34	2.4
1250	2.56	
1600	2.61	
2000	2.48	2.6
2500	2.69	
3150	2.57	
4000	2.64	2.7
5000	2.83	

Client: Akustil Sweden AB
Manufacturer: Akustil Sweden AB
Product identification: Akufloor 1000 x 1400 x 40

Description of test specimen: Sound absorbing floor screen with metal frame.
Calculation based on scaling of measurement 21-726-M1
(Akufloor 840x1800x40).
This calculation is not in accordance with ISO 20189:2018.



$N_{10} = 5$

Akufloor 1200 x 1400 x 40

SOUND ABSORPTION AREA - CALCULATED FROM MEASUREMENTS

Calculated sound absorption area from ISO 354:2003 reverberation room measurements, evaluated according to ISO 20189:2018

Report number:
2719-PM1-M2
Date
2022-11-17

Frequency f [Hz]	Sound absorption area per object [m ² Sabine]	
50	0.64	
63	0.57	0.51
80	0.31	
100	0.36	
125	0.83	0.68
160	0.85	
200	1.31	
250	1.30	1.4
315	1.56	
400	2.00	
500	2.25	2.3
630	2.64	
800	2.83	
1000	2.77	2.9
1250	3.02	
1600	3.09	
2000	2.96	3.1
2500	3.15	
3150	3.06	
4000	3.19	3.2
5000	3.38	

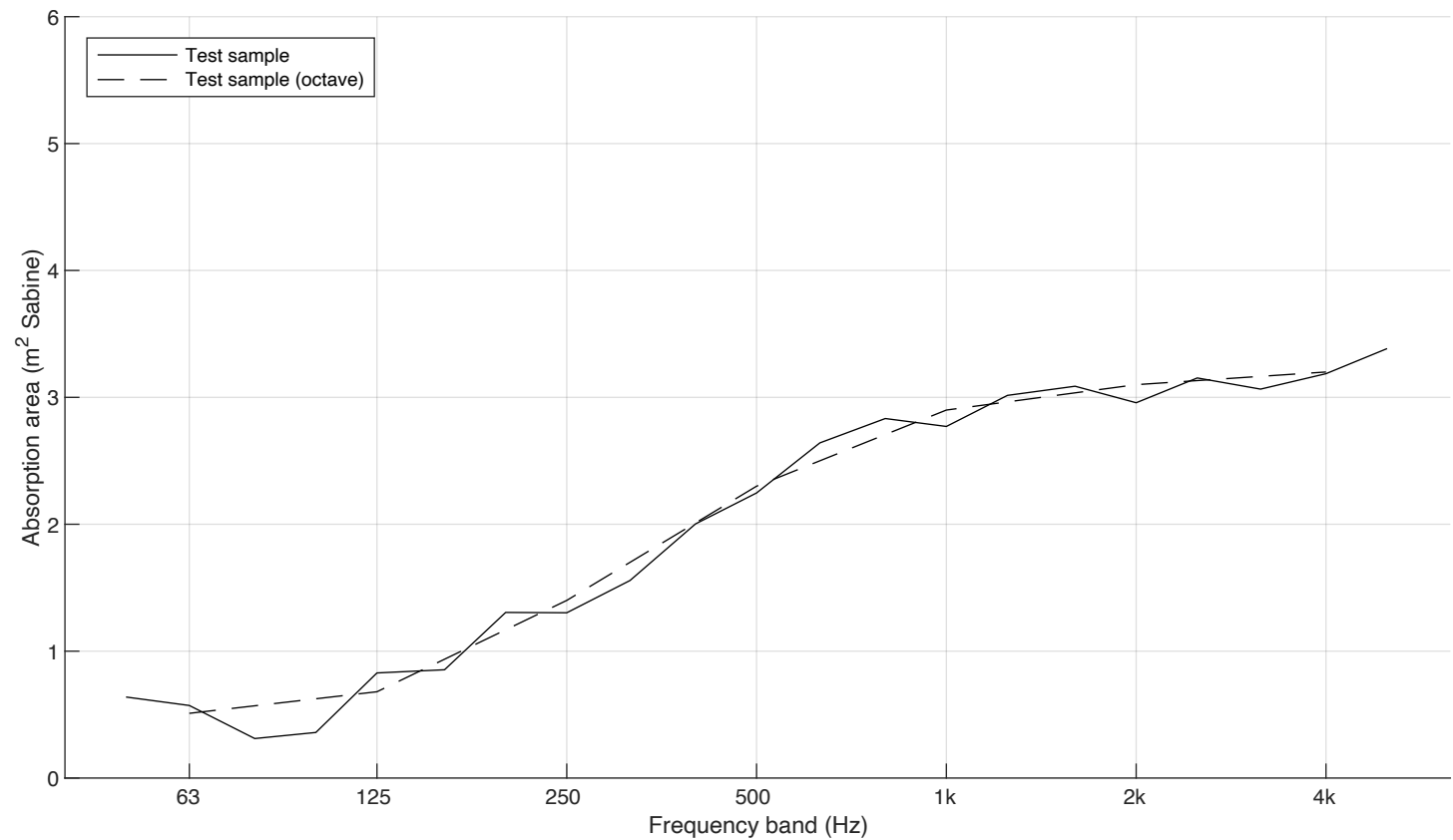
Client: Akustil Sweden AB
 Manufacturer: Akustil Sweden AB
 Product identification: Akufloor 1200 x 1400 x 40

Description of test specimen: Sound absorbing floor screen with metal frame.
 Core of 100% recycled PET fibre dressed in polyester fabric.
 Size 1200 x 1400 x 40 mm.

Interpolation according to ISO 20189:2018
 appendix E, based on measurements:
 21-726-M1 - Akufloor 840x1800x40.txt
 and
 21-726-M2 - Akufloor 1220x1800x40.txt

	Height	Width
Object 1 size	1800	840
Object 2 size	1800	1220
Interpolated object size	1400	1200

Area difference 10 %



$$N_{10} = 4.3$$

Akufloor 1000 x 1600 x 40

SOUND ABSORPTION AREA - CALCULATED FROM MEASUREMENTS

Calculated sound absorption area from ISO 354:2003 reverberation room measurements, evaluated according to ISO 20189:2018

Report number:
2719-PM1-M3
Date
2022-11-17

Frequency f [Hz]	Sound absorption area per object [m ² Sabine]	
50	0.60	
63	0.55	0.48
80	0.28	
100	0.34	
125	0.78	0.64
160	0.81	
200	1.24	
250	1.23	1.3
315	1.48	
400	1.93	
500	2.16	2.2
630	2.54	
800	2.72	
1000	2.66	2.8
1250	2.90	
1600	2.96	
2000	2.83	2.9
2500	3.03	
3150	2.93	
4000	3.03	3.1
5000	3.23	

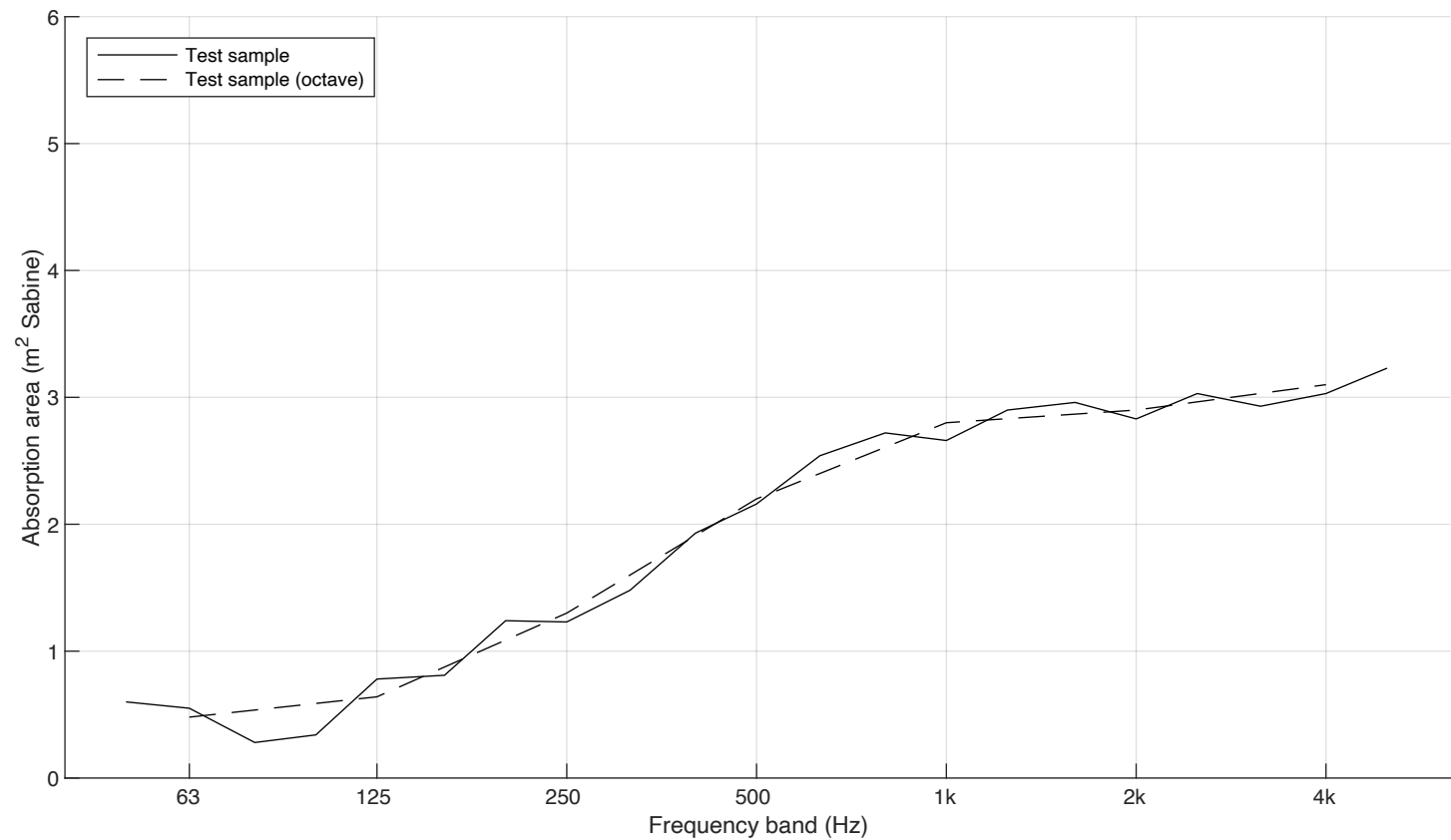
Client: Akustil Sweden AB
Manufacturer: Akustil Sweden AB
Product identification: Akufloor 1000 x 1600 x 40

Description of test specimen: Sound absorbing floor screen with metal frame.
Core of 100% recycled PET fibre dressed in polyester fabric.
Size 1000 x 1600 x 40 mm.

Interpolation according to ISO 20189:2018
appendix E, based on measurements:
21-726-M1 - Akufloor 840x1800x40.txt
and
21-726-M2 - Akufloor 1220x1800x40.txt

	Height	Width
Object 1 size	1800	840
Object 2 size	1800	1220
Interpolated object size	1600	1000

Area difference 6 %



$N_{10} = 4.5$

Akufloor 1200 x 1600 x 40

SOUND ABSORPTION AREA - CALCULATED FROM MEASUREMENTS

Calculated sound absorption area from ISO 354:2003 reverberation room measurements, evaluated according to ISO 20189:2018

Report number:
2719-PM1-M4
Date
2022-11-17

Frequency f [Hz]	Sound absorption area per object [m ² Sabine]	
50	0.76	
63	0.63	0.60
80	0.41	
100	0.43	
125	0.97	0.80
160	0.99	
200	1.50	
250	1.51	1.6
315	1.80	
400	2.21	
500	2.51	2.6
630	2.94	
800	3.18	
1000	3.11	3.2
1250	3.37	
1600	3.47	
2000	3.35	3.4
2500	3.51	
3150	3.47	
4000	3.67	3.7
5000	3.85	

$$N_{10} = 3.8$$

Client: Akustil Sweden AB
 Manufacturer: Akustil Sweden AB
 Product identification: Akufloor 1000 x 1600 x 40

Description of test specimen: Sound absorbing floor screen with metal frame.
 Core of 100% recycled PET fibre dressed in polyester fabric.
 Size 1200 x 1600 x 40 mm.

Interpolation according to ISO 20189:2018
 appendix E, based on measurements:
 21-726-M1 - Akufloor 840x1800x40.txt
 and
 21-726-M2 - Akufloor 1220x1800x40.txt

	Height	Width
Object 1 size	1800	840
Object 2 size	1800	1220
Interpolated object size	1600	1200

Area difference 13 %

