

**AKUFRAME**

Mått	$N_{10}$
830x650x30 mm	14
1000x650x30 mm	13
1100x650x30 mm	11
1200x650x30 mm	10
1400x650x30 mm	9,1
1600x650x30 mm	8,3
1800x650x30 mm	7,1
2000x650x30 mm	6,3
830x700x30 mm	15
1400x700x30 mm	8,3
1400x750x30 mm	8,3
830x800x30 mm	12
1400x800x30 mm	7,1



# Akuframe 830 x 650 x 30 mm, Nate fabric

SOUND ABSORPTION AREA ACCORDING TO ISO 354 AND SS 25269

Measurement of sound absorption area in a reverberation room



Report number:  
**18-705-M4**  
Date  
**2018-06-20**

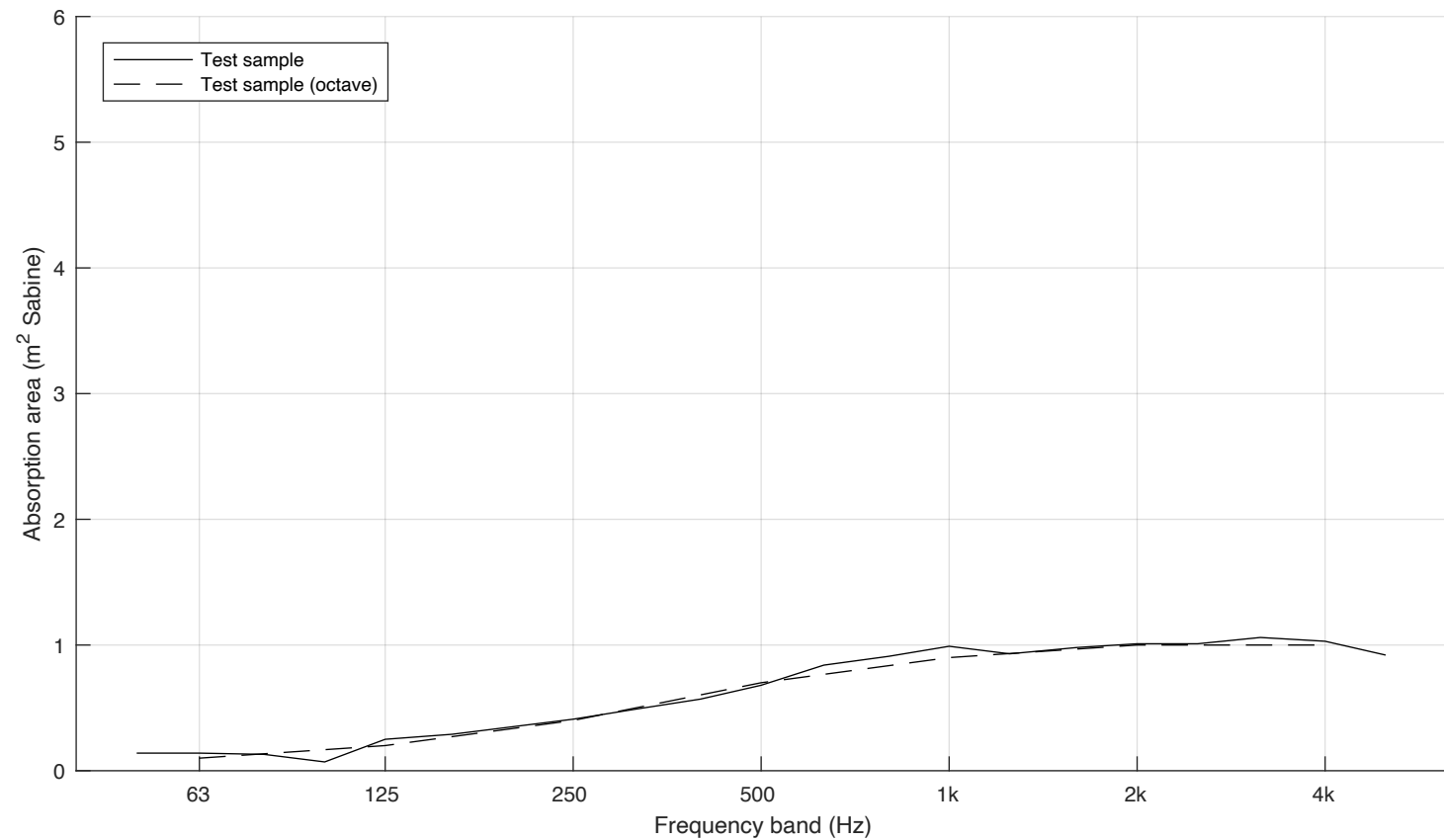
Frequency f [Hz]	Sound absorption area [m <sup>2</sup> Sabine]	
50	0.14	
63	0.14	0.1
80	0.13	
100	0.07	
125	0.25	0.2
160	0.29	
200	0.35	
250	0.41	0.4
315	0.49	
400	0.57	
500	0.68	0.7
630	0.84	
800	0.91	
1000	0.99	0.9
1250	0.93	
1600	0.98	
2000	1.01	1.0
2500	1.01	
3150	1.06	
4000	1.03	1.0
5000	0.92	

Client: Akustil Sweden AB  
Manufacturer: Akustil Sweden AB  
Product identification: Akuframe Nate, 830 x 650

Description of test specimen: Sound absorbing desktop screen with metal frame.  
Core of 100% recycled PET fibre dressed in Nate fabric (100% polyester).  
Size 830 x 630 x 30 mm.  
Mounted standing on floor.

Reverberation room volume: 200 m<sup>3</sup>  
Temperature: 18.8 °C (empty: 18.7 °C)  
Air humidity: 54 % (empty: 54 %)  
Air pressure: 99.0 kPa (empty: 99.0 kPa)  
Number of specimens: 3

Measurement date: 2018-06-20  
Measured by: Carl Nyqvist



$N_{10} = 14$

# Akuframe 1000 x 650 x 30 mm

## SOUND ABSORPTION AREA - CALCULATED FROM MEASUREMENTS

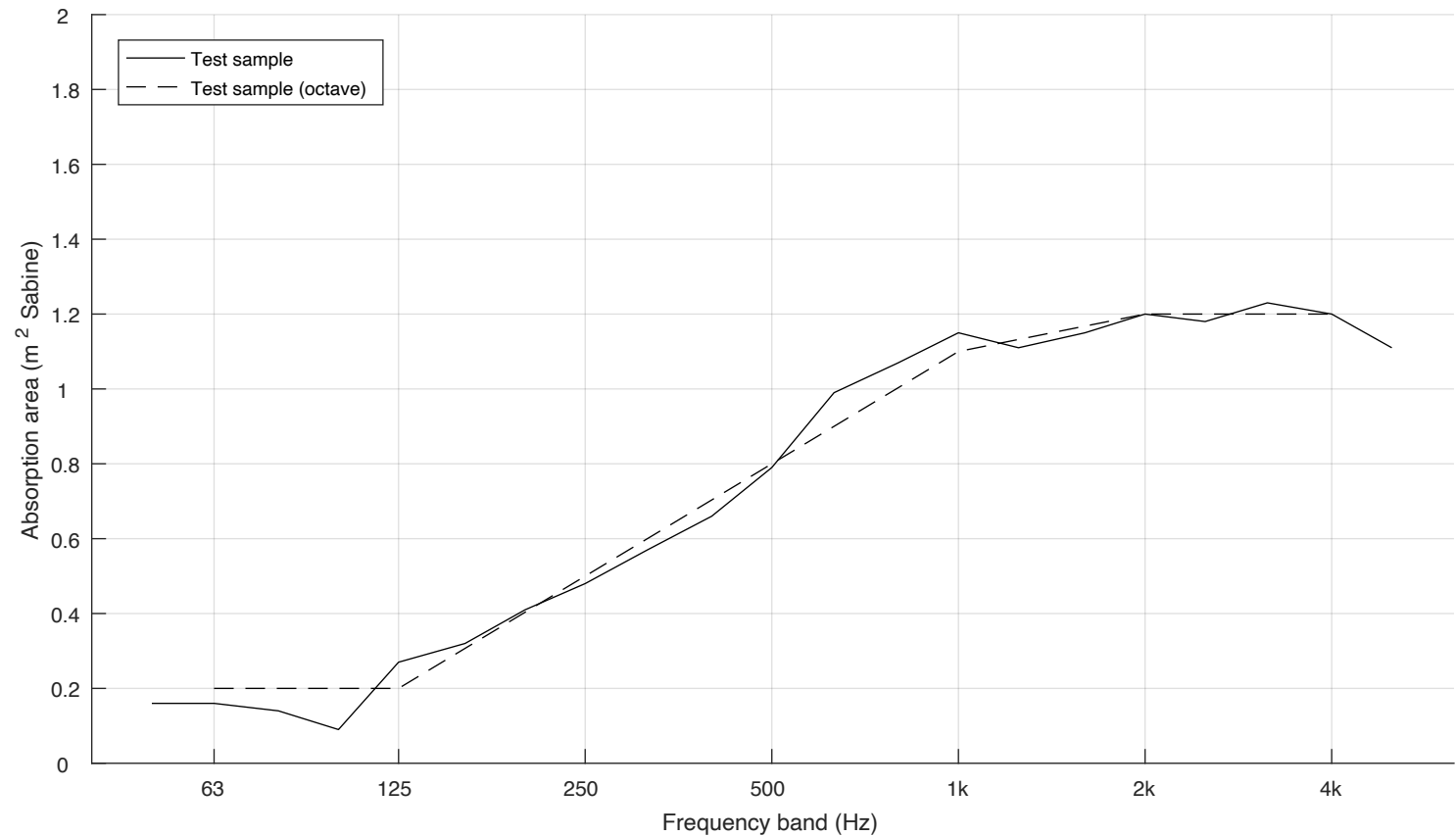
Calculated sound absorption area from ISO 354 reverberation room measurements, evaluated according to ISO 20189

Report number:  
19-724-M2  
Date  
2019-04-29

Frequency f [Hz]	Sound absorption area [m <sup>2</sup> Sabine]	
50	0.16	
63	0.16	0.2
80	0.14	
100	0.09	
125	0.27	0.2
160	0.32	
200	0.41	
250	0.48	0.5
315	0.57	
400	0.66	
500	0.79	0.8
630	0.99	
800	1.07	
1000	1.15	1.1
1250	1.11	
1600	1.15	
2000	1.20	1.2
2500	1.18	
3150	1.23	
4000	1.20	1.2
5000	1.11	

Client: Akustil  
Manufacturer: Akustil  
Product identification: Akuframe 1000 x 650

Description of test specimen: Desk screen 1000 x 650. Sound absorption area modelled based on the measured sizes 830 x 650 and 1600 x 650 mm according to ISO 20189, E.1.1.  
The scaling of the graph deviates from ISO 354 to increase readability.



$N_{10} = 13$

# Akuframe 1100 x 650 x 30 mm

## SOUND ABSORPTION AREA - CALCULATED FROM MEASUREMENTS

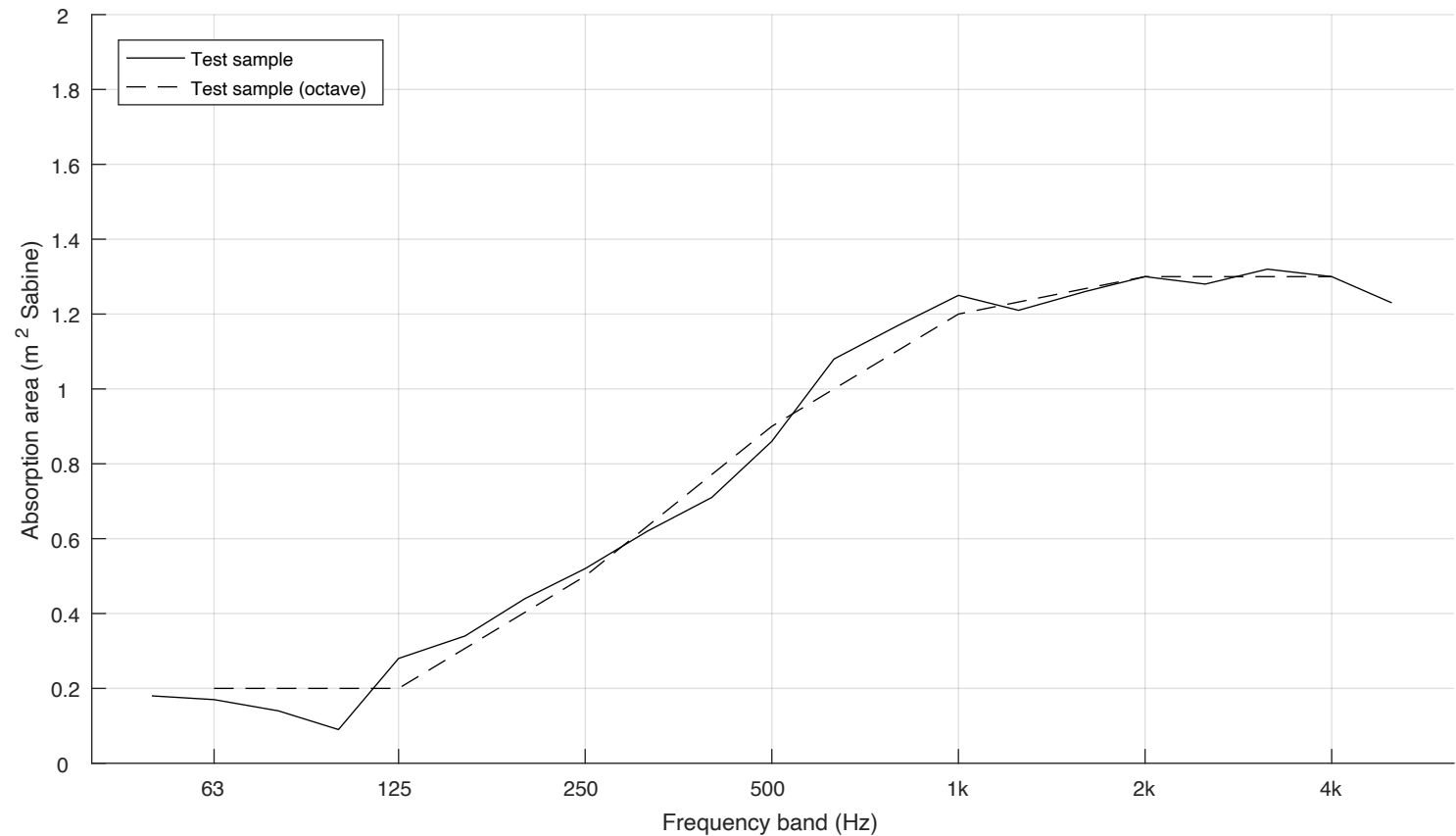
Calculated sound absorption area from ISO 354 reverberation room measurements, evaluated according to ISO 20189

Report number:  
19-724-M3  
Date  
2019-04-29

Frequency f [Hz]	Sound absorption area [m <sup>2</sup> Sabine]	
50	0.18	
63	0.17	0.2
80	0.14	
100	0.09	
125	0.28	0.2
160	0.34	
200	0.44	
250	0.52	0.5
315	0.62	
400	0.71	
500	0.86	0.9
630	1.08	
800	1.17	
1000	1.25	1.2
1250	1.21	
1600	1.26	
2000	1.30	1.3
2500	1.28	
3150	1.32	
4000	1.30	1.3
5000	1.23	

Client: Akustil  
Manufacturer: Akustil  
Product identification: Akuframe 1100 x 650

Description of test specimen: Desk screen 1100 x 650. Sound absorption area modelled based on the measured sizes 830 x 650 and 1600 x 650 mm according to ISO 20189, E.1.1.  
The scaling of the graph deviates from ISO 354 to increase readability.



$$N_{10} = 11$$

# Akuframe 1200 x 650 x 30 mm

## SOUND ABSORPTION AREA - CALCULATED FROM MEASUREMENTS

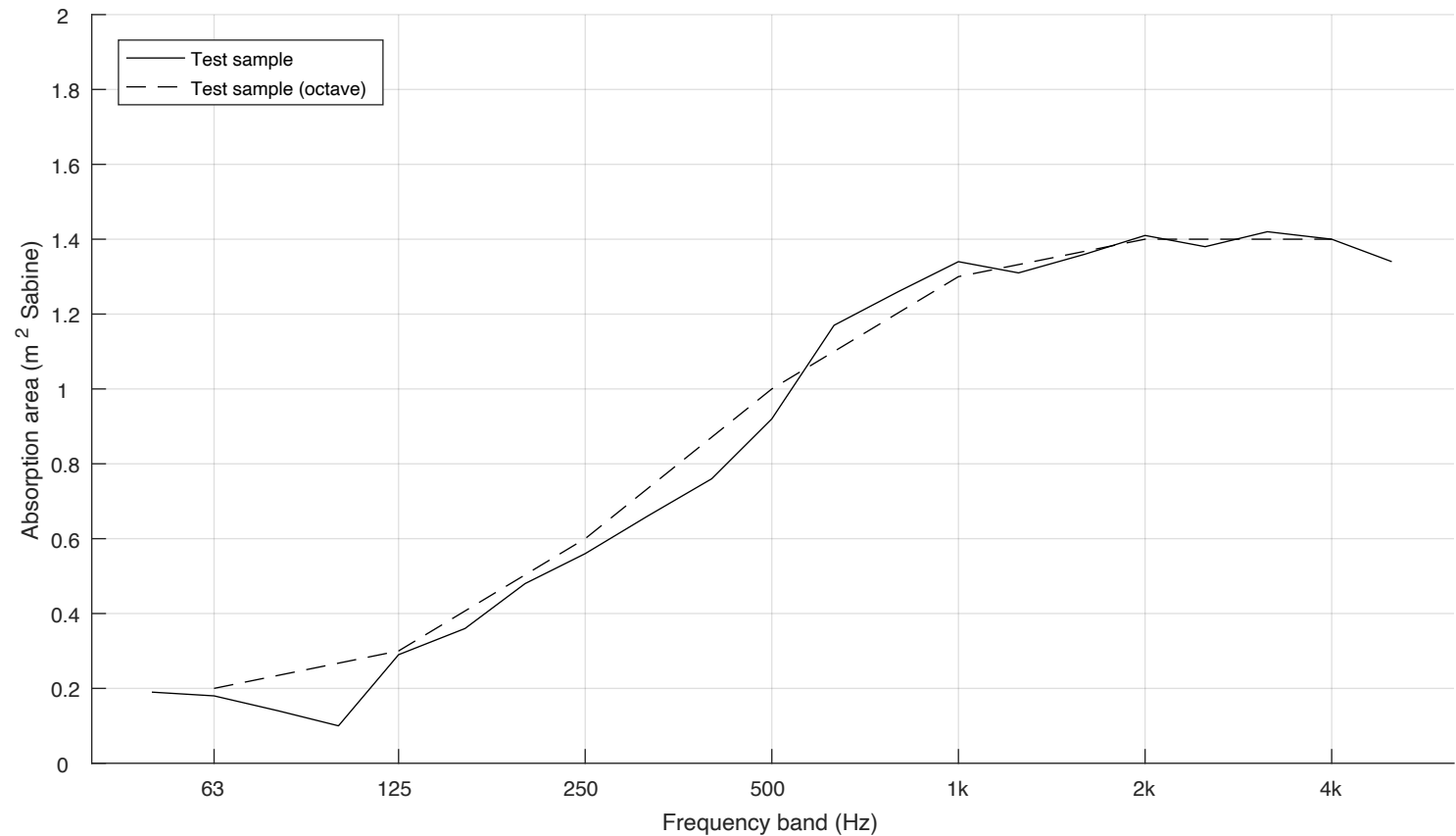
Calculated sound absorption area from ISO 354 reverberation room measurements, evaluated according to ISO 20189

Report number:  
19-724-M4  
Date  
2019-04-29

Frequency f [Hz]	Sound absorption area [m <sup>2</sup> Sabine]	
50	0.19	
63	0.18	0.2
80	0.14	
100	0.10	
125	0.29	0.3
160	0.36	
200	0.48	
250	0.56	0.6
315	0.66	
400	0.76	
500	0.92	1.0
630	1.17	
800	1.26	
1000	1.34	1.3
1250	1.31	
1600	1.36	
2000	1.41	1.4
2500	1.38	
3150	1.42	
4000	1.40	1.4
5000	1.34	

Client: Akustil  
Manufacturer: Akustil  
Product identification: Akuframe 1200 x 650

Description of test specimen: Desk screen 1200 x 650. Sound absorption area modelled based on the measured sizes 830 x 650 and 1600 x 650 mm according to ISO 20189, E.1.1.  
The scaling of the graph deviates from ISO 354 to increase readability.



$$N_{10} = 10$$

# Akuframe 1400 x 650 x 30 mm

## SOUND ABSORPTION AREA - CALCULATED FROM MEASUREMENTS

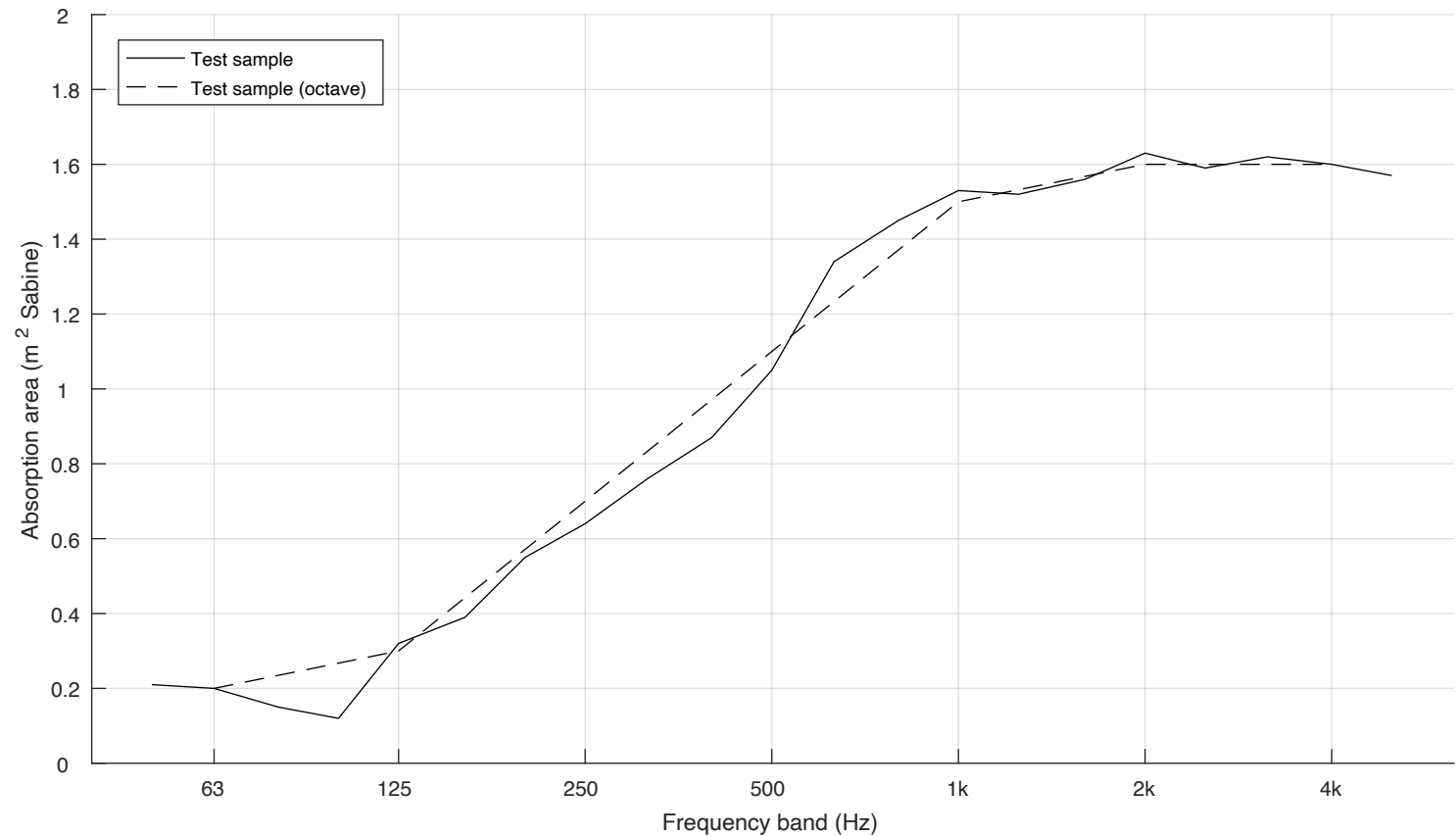
Calculated sound absorption area from ISO 354 reverberation room measurements, evaluated according to ISO 20189

Report number:  
19-724-M5  
Date  
2019-04-29

Frequency f [Hz]	Sound absorption area [m <sup>2</sup> Sabine]	
50	0.21	
63	0.20	0.2
80	0.15	
100	0.12	
125	0.32	0.3
160	0.39	
200	0.55	
250	0.64	0.7
315	0.76	
400	0.87	
500	1.05	1.1
630	1.34	
800	1.45	
1000	1.53	1.5
1250	1.52	
1600	1.56	
2000	1.63	1.6
2500	1.59	
3150	1.62	
4000	1.60	1.6
5000	1.57	

Client: Akustil  
Manufacturer: Akustil  
Product identification: Akuframe 1400 x 650

Description of test specimen: Desk screen 1400 x 650. Sound absorption area modelled based on the measured sizes 830 x 650 and 1600 x 650 mm according to ISO 20189, E.1.1.  
The scaling of the graph deviates from ISO 354 to increase readability.



$$N_{10} = 9.1$$

# Akuframe 1600 x 650 x 30 mm, Nate fabric

SOUND ABSORPTION AREA ACCORDING TO ISO 354 AND SS 25269

Measurement of sound absorption area in a reverberation room



Report number:  
**18-705-M5**  
Date  
**2018-06-20**

Frequency f [Hz]	Sound absorption area [m <sup>2</sup> Sabine]	
50	0.24	
63	0.22	0.2
80	0.16	
100	0.14	
125	0.34	0.3
160	0.43	
200	0.62	
250	0.72	0.7
315	0.85	
400	0.97	
500	1.18	1.2
630	1.52	
800	1.64	
1000	1.72	1.7
1250	1.73	
1600	1.77	
2000	1.85	1.8
2500	1.79	
3150	1.81	
4000	1.80	1.8
5000	1.80	

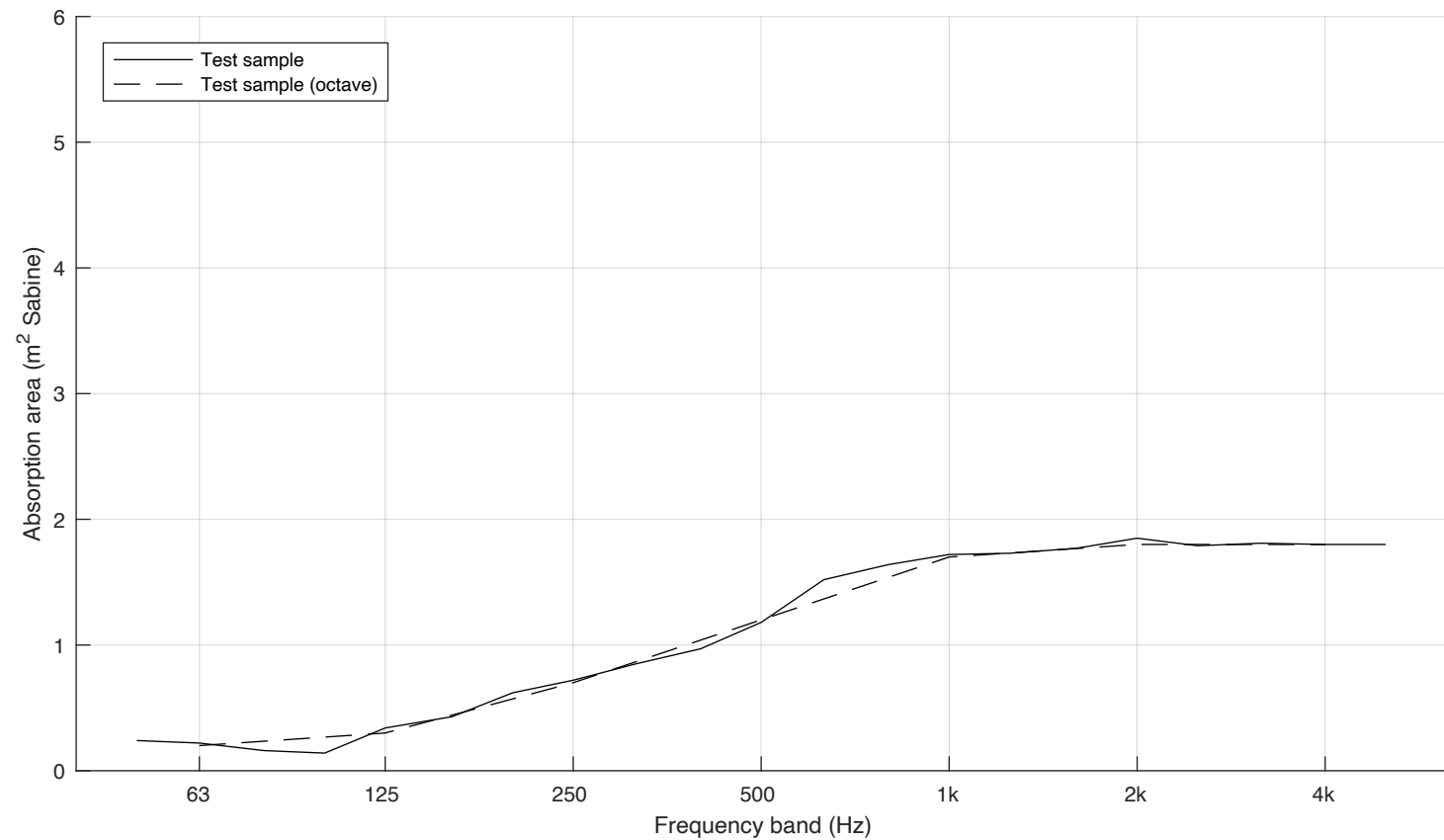
Client: Akustil Sweden AB  
 Manufacturer: Akustil Sweden AB  
 Product identification: Akuframe Nate, 1600 x 650

Description of test specimen: Sound absorbing desktop screen with metal frame.  
 Core of 100% recycled PET fibre dressed in Nate fabric (100% polyester).  
 Size 1600 x 630 x 30 mm.  
 Mounted standing on floor.

Reverberation room volume: 200 m<sup>3</sup>  
 Temperature: 18.8 °C (empty: 18.7 °C)  
 Air humidity: 54 % (empty: 54 %)  
 Air pressure: 99.0 kPa (empty: 99.0 kPa)  
 Number of specimens: 3

Measurement date: 2018-06-20  
 Measured by: Carl Nyqvist

$$N_{10} = 8.3$$



# Akuframe 1800 x 650 x 30 mm

## SOUND ABSORPTION AREA - CALCULATED FROM MEASUREMENTS

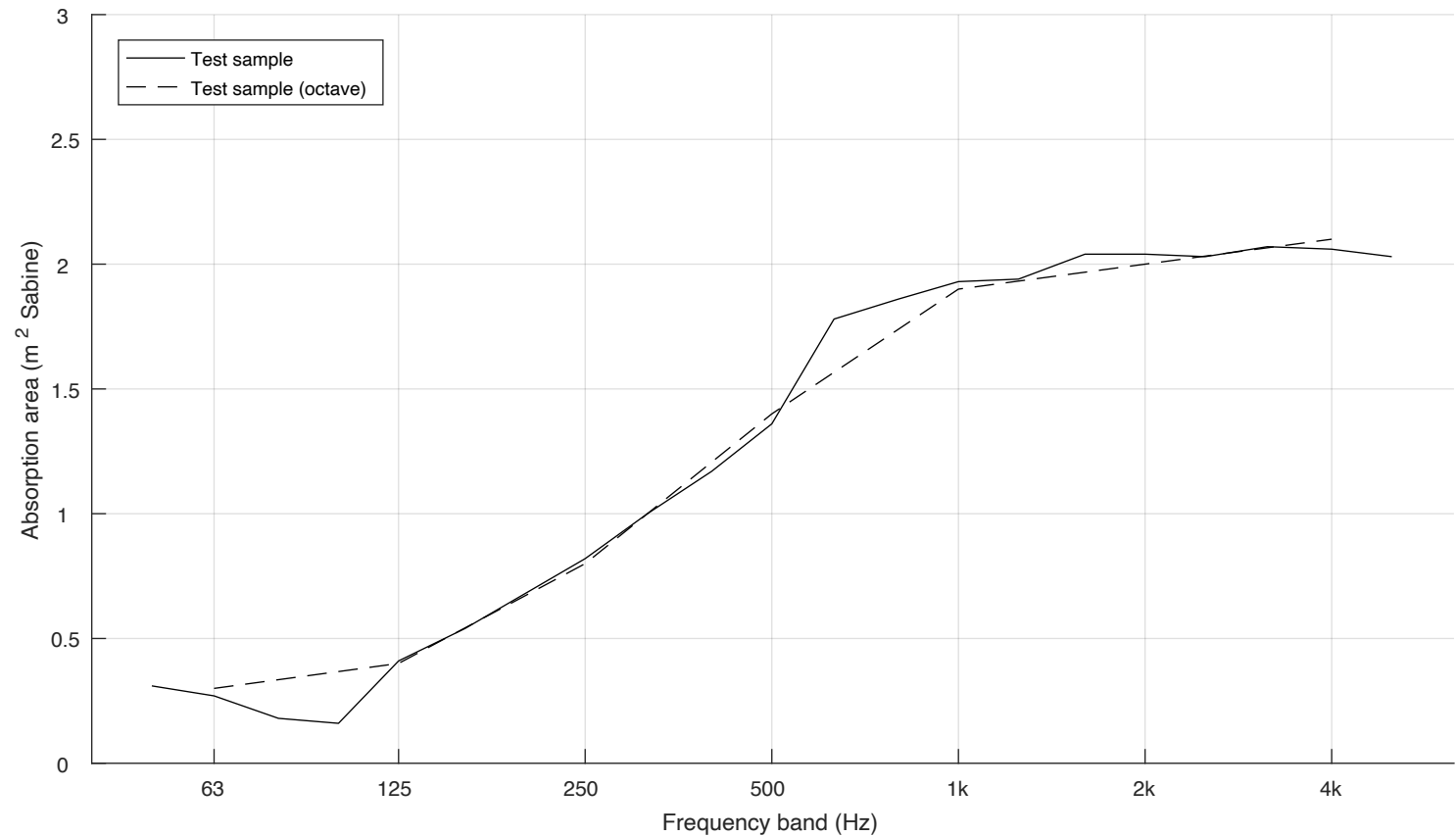
Calculated sound absorption area from ISO 354 reverberation room measurements, evaluated according to ISO 20189

Report number:  
19-724-M6  
Date  
2019-04-29

Frequency f [Hz]	Sound absorption area [m <sup>2</sup> Sabine]	
50	0.31	
63	0.27	0.3
80	0.18	
100	0.16	
125	0.41	0.4
160	0.54	
200	0.68	
250	0.82	0.8
315	1.00	
400	1.17	
500	1.36	1.4
630	1.78	
800	1.86	
1000	1.93	1.9
1250	1.94	
1600	2.04	
2000	2.04	2.0
2500	2.03	
3150	2.07	
4000	2.06	2.1
5000	2.03	

Client: Akustil  
Manufacturer: Akustil  
Product identification: Akuframe 1800 x 650

Description of test specimen: Desk screen 1800 x 650. Sound absorption area modelled based on the measured sizes 1600 x 650 and 2000 x 650 mm according to ISO 20189, E.1.1.  
The scaling of the graph deviates from ISO 354 to increase readability.



$$N_{10} = 7.1$$



# Akuframe 2000 x 650 x 30 mm, Nate fabric

SOUND ABSORPTION AREA ACCORDING TO ISO 354 AND SS 25269

Measurement of sound absorption area in a reverberation room



Report number:  
**18-705-M6**  
Date  
**2018-06-20**

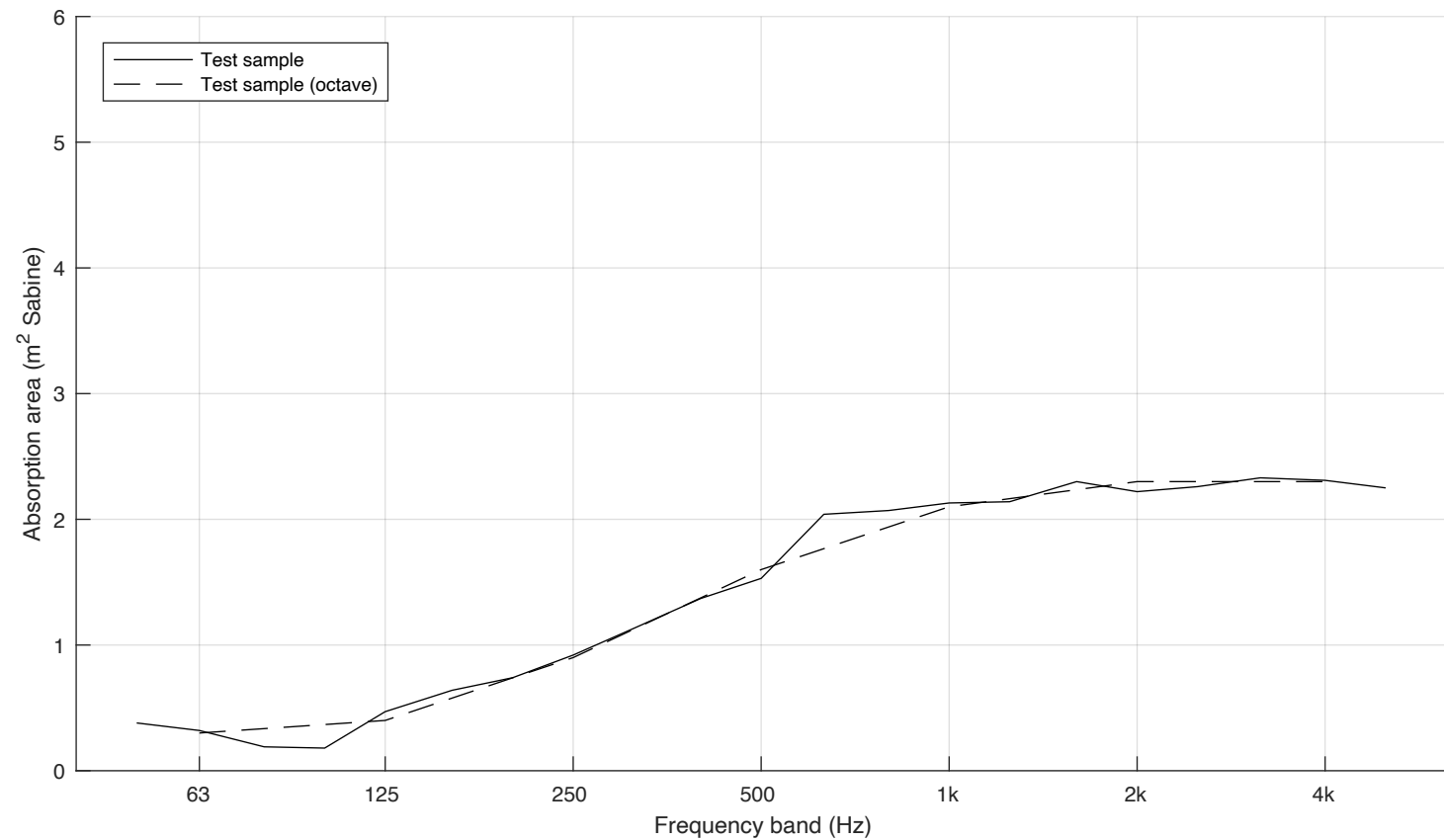
Frequency f [Hz]	Sound absorption area [m <sup>2</sup> Sabine]	
50	0.38	
63	0.32	0.3
80	0.19	
100	0.18	
125	0.47	0.4
160	0.64	
200	0.74	
250	0.92	0.9
315	1.14	
400	1.37	
500	1.53	1.6
630	2.04	
800	2.07	
1000	2.13	2.1
1250	2.14	
1600	2.30	
2000	2.22	2.3
2500	2.26	
3150	2.33	
4000	2.31	2.3
5000	2.25	

Client: Akustil Sweden AB  
 Manufacturer: Akustil Sweden AB  
 Product identification: Akuframe Nate, 2000 x 650

Description of test specimen: Sound absorbing desktop screen with metal frame.  
 Core of 100% recycled PET fibre dressed in Nate fabric (100% polyester). Size 2000 x 630 x 30 mm.  
 Mounted standing on floor.

Reverberation room volume: 200 m<sup>3</sup>  
 Temperature: 18.8 °C (empty: 18.7 °C)  
 Air humidity: 54 % (empty: 54 %)  
 Air pressure: 99.0 kPa (empty: 99.0 kPa)  
 Number of specimens: 2  
 Measurement date: 2018-06-20  
 Measured by: Carl Nyqvist

$$N_{10} = 6.3$$



# Akuframe 830 x 700 x 30

## 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:

2856-PM1-M1

Date

2023-02-01

Frequency f [Hz]	Sound absorption area per object [m <sup>2</sup> Sabine]	
50	0.15	
63	0.15	0.14
80	0.13	
100	0.08	
125	0.26	0.21
160	0.30	
200	0.37	
250	0.44	0.44
315	0.52	
400	0.60	
500	0.72	0.74
630	0.90	
800	0.97	
1000	1.05	1.0
1250	1.00	
1600	1.05	
2000	1.08	1.1
2500	1.07	
3150	1.12	
4000	1.09	1.1
5000	0.99	

Client: Akustil Sweden AB  
Manufacturer: Akustil Sweden AB  
Product identification: Akuframe 830 x 700 x 30

Description of test specimen: Sound absorbing desk screen with metal frame.  
Core of 100% recycled PET fibre dressed in polyester fabric.  
Size 830 x 700 x 30 mm.

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

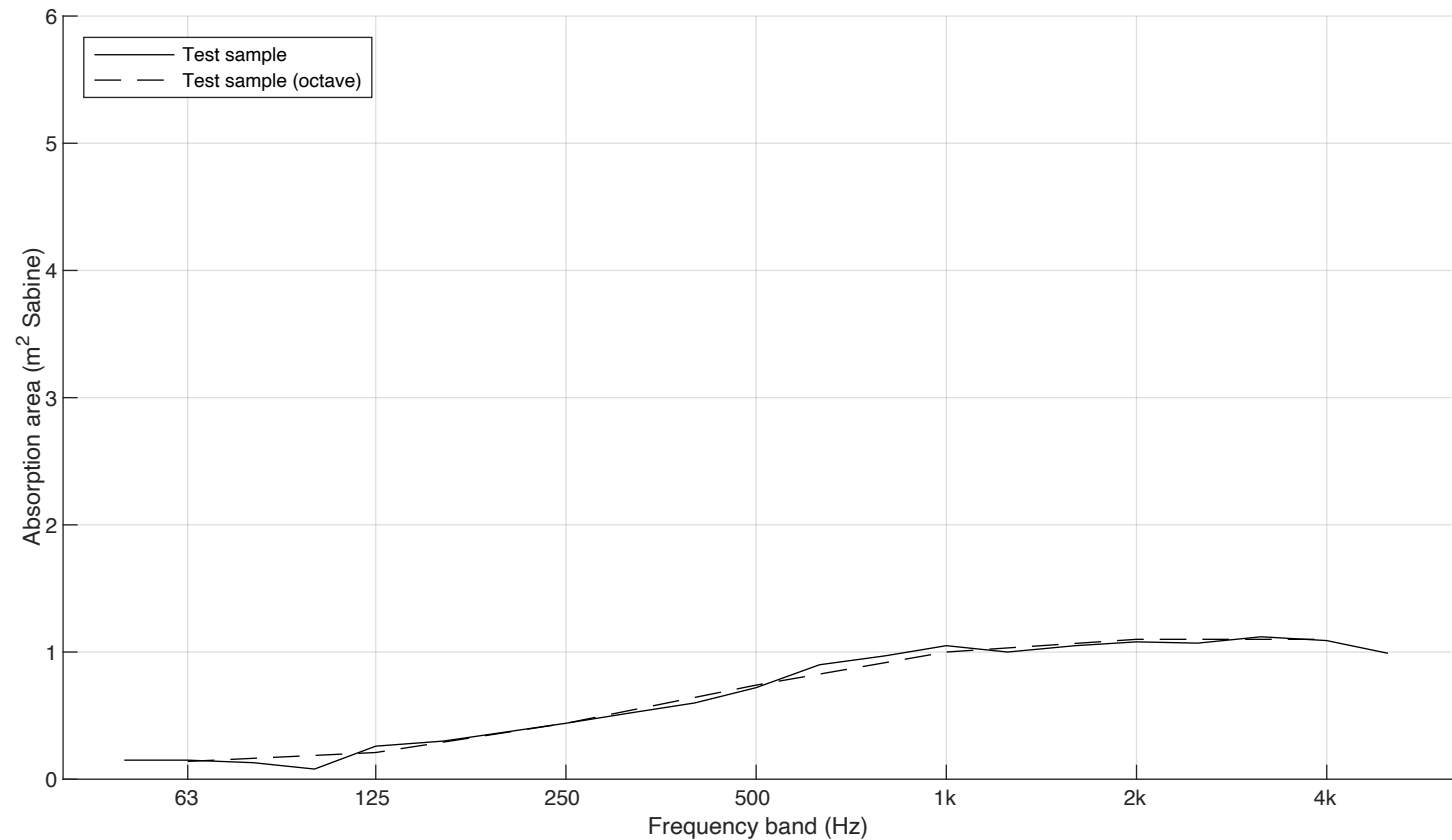
18-705-M4 - Akuframe 830x650 Nate.txt

and

18-705-M5 - Akuframe 1600x650 Nate.txt

	Height	Width
Object 1 size	650	830
Object 2 size	650	1600
Interpolated object size	700	830

Area difference 7 %



$$N_{10} = 14$$

# Akuframe 1400 x 700 x 30

## 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:  
**2856-PM1-M2**  
Date  
**2023-02-01**

Frequency f [Hz]	Sound absorption area per object [m <sup>2</sup> Sabine]	
50	0.23	
63	0.21	0.20
80	0.16	
100	0.13	
125	0.33	0.29
160	0.41	
200	0.59	
250	0.68	0.69
315	0.81	
400	0.92	
500	1.12	1.2
630	1.44	
800	1.55	
1000	1.63	1.6
1250	1.63	
1600	1.68	
2000	1.75	1.7
2500	1.70	
3150	1.72	
4000	1.71	1.7
5000	1.69	

Client: Akustil Sweden AB  
Manufacturer: Akustil Sweden AB  
Product identification: Akuframe 1400 x 700 x 30

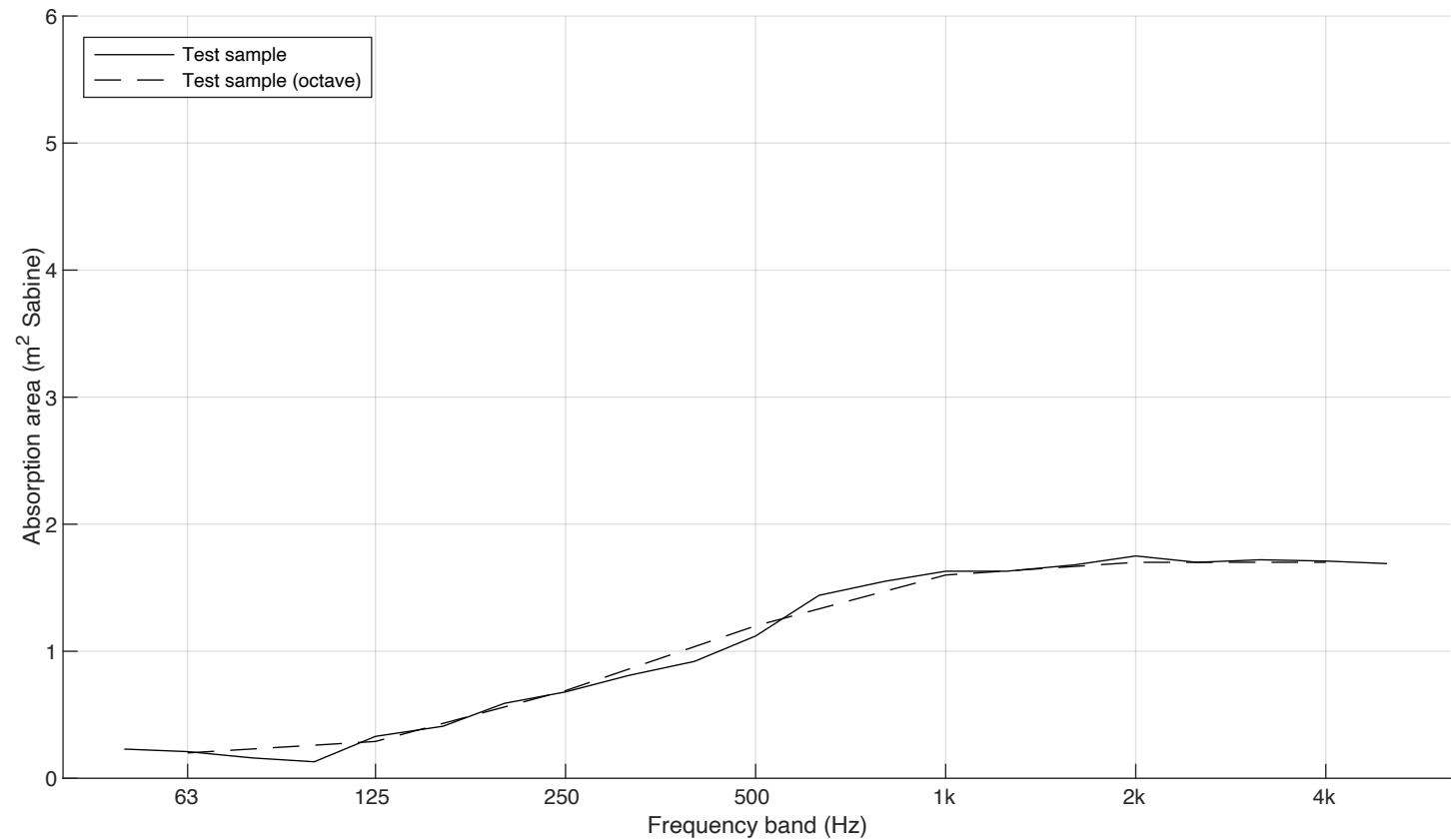
Description of test specimen: Sound absorbing desk screen with metal frame.  
Core of 100% recycled PET fibre dressed in polyester fabric.  
Size 1400 x 700 x 30 mm.

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

18-705-M4 - Akuframe 830x650 Nate.txt  
and  
18-705-M5 - Akuframe 1600x650 Nate.txt

	Height	Width
Object 1 size	650	830
Object 2 size	650	1600
Interpolated object size	700	1400

Area difference 6 %



$$N_{10} = 8.3$$

# Akuframe 1400 x 750 x 30

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:

21-724-M1

Date

2021-05-19

Frequency f [Hz]	Sound absorption area per object [m <sup>2</sup> Sabine]	
50	0.25	
63	0.22	0.21
80	0.16	
100	0.14	
125	0.35	0.31
160	0.44	
200	0.62	
250	0.73	0.74
315	0.86	
400	0.99	
500	1.19	1.2
630	1.54	
800	1.66	
1000	1.74	1.7
1250	1.75	
1600	1.79	
2000	1.86	1.8
2500	1.81	
3150	1.83	
4000	1.82	1.8
5000	1.82	

Client: Akustil Sweden AB  
 Manufacturer: Akustil Sweden AB  
 Product identification: Akuframe 1400 x 750 x 30

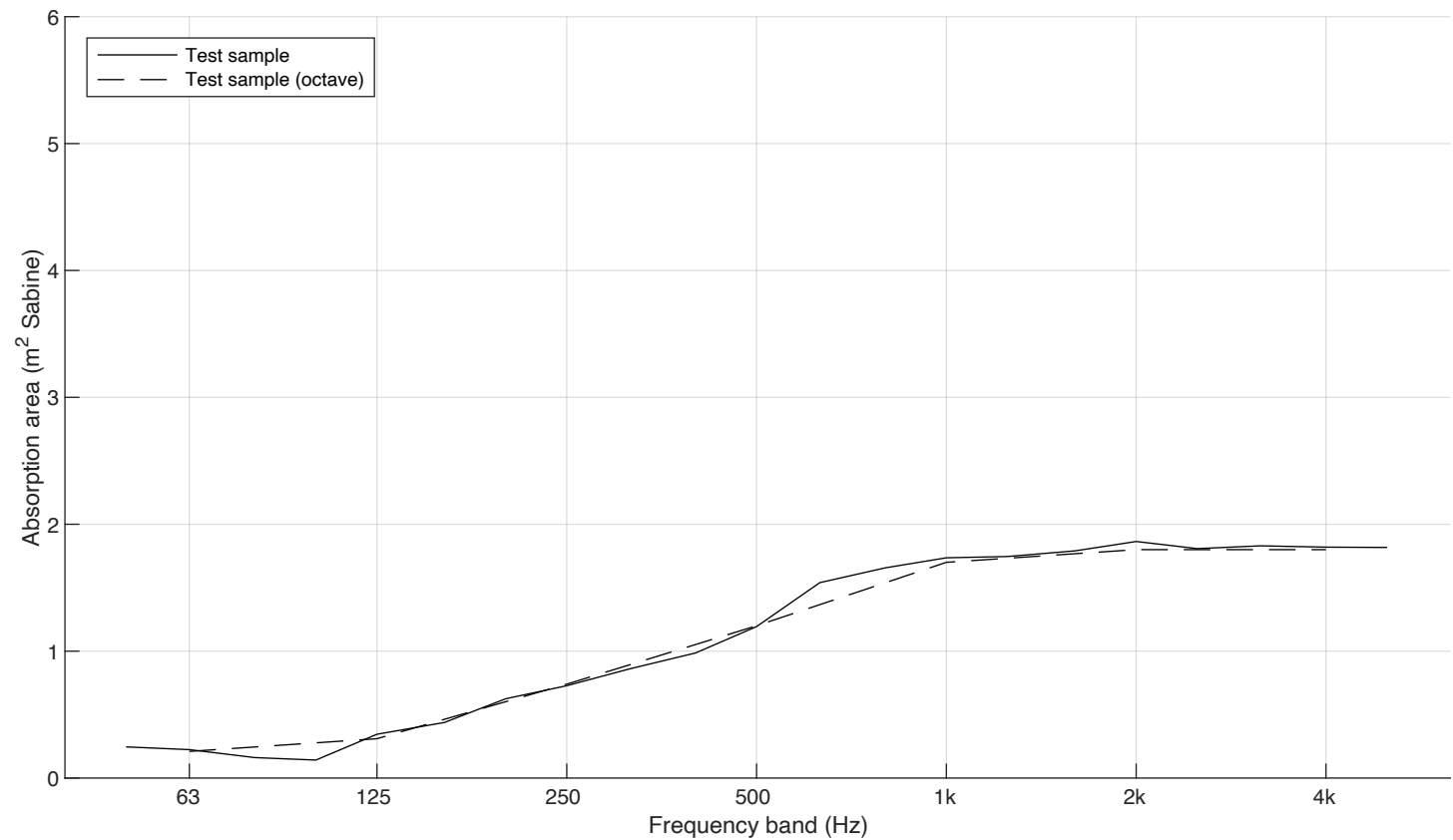
Description of test specimen: Sound absorbing desktop screen with metal frame.  
 Core of 100% recycled PET fibre dressed in polyester fabric.  
 Size 1400 x 750 x 30 mm.

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

18-705-M5 - Akuframe 1600x650 Nate.txt  
 and  
 18-705-M6 - Akuframe 2000x650 Nate.txt

	Height	Width
Object 1 size	650	1600
Object 2 size	650	2000
Interpolated object size	750	1400

Area difference 1 %



$$N_{10} = 8.3$$

# Akuframe 830 x 800 x 30

## 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:  
**3187-PM1-M1**  
Date  
**2023-09-10**

Frequency f [Hz]	Sound absorption area per object [m <sup>2</sup> Sabine]	
50	0.17	
63	0.16	0.16
80	0.14	
100	0.09	
125	0.27	0.23
160	0.33	
200	0.42	
250	0.50	0.50
315	0.59	
400	0.68	
500	0.82	0.84
630	1.03	
800	1.11	
1000	1.19	1.2
1250	1.15	
1600	1.20	
2000	1.24	1.2
2500	1.23	
3150	1.27	
4000	1.24	1.2
5000	1.16	

Client: Akustil Sweden AB  
 Manufacturer: Akustil Sweden AB  
 Product identification: Akuframe 830 x 800 x 30

Description of test specimen: Sound absorbing desk screen with metal frame.  
 Core of 100% recycled PET fibre dressed in polyester fabric.  
 Size 830 x 800 x 30 mm.

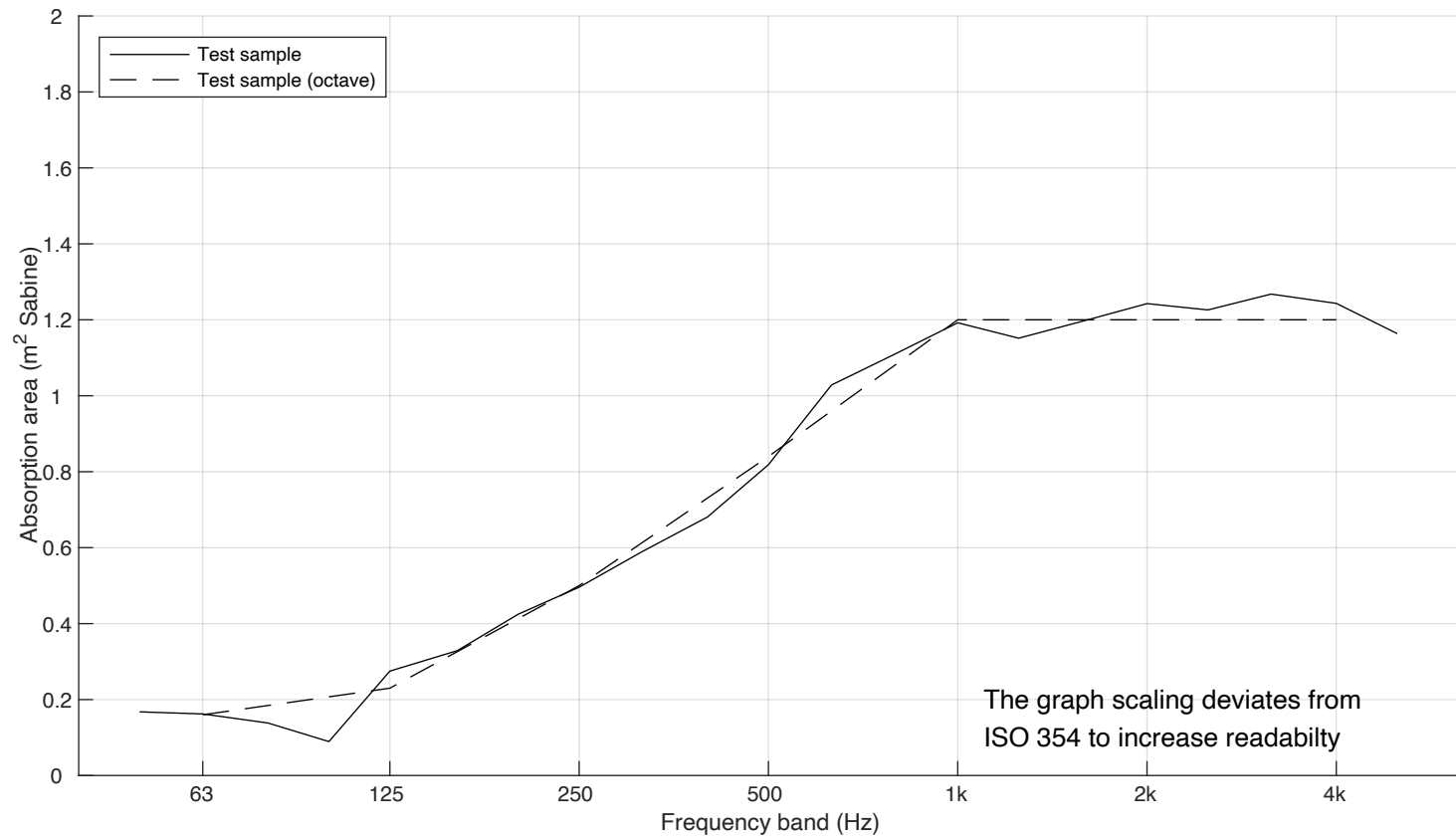
Interpolation according to ISO 20189:2018  
 appendix E, based on measurements:

18-705-M4 - Akuframe 830x650 Nate.txt  
 and  
 18-705-M5 - Akuframe 1600x650 Nate.txt

	Height	Width
Object 1 size	650	800
Object 2 size	650	1600
Interpolated object size	800	830

Area difference 22 %

$N_{10} = 12$



# Akuframe 1400 x 800 x 30

## 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:  
**3187-PM1-M2**  
Date  
**2023-09-10**

Frequency f [Hz]	Sound absorption area per object [m <sup>2</sup> Sabine]	
50	0.28	
63	0.25	0.23
80	0.17	
100	0.15	
125	0.38	0.34
160	0.49	
200	0.66	
250	0.78	0.79
315	0.94	
400	1.09	
500	1.29	1.4
630	1.68	
800	1.77	
1000	1.85	1.8
1250	1.86	
1600	1.93	
2000	1.96	1.9
2500	1.93	
3150	1.97	
4000	1.96	2.0
5000	1.94	

Client: Akustil Sweden AB  
 Manufacturer: Akustil Sweden AB  
 Product identification: Akuframe 1400 x 800 x 30

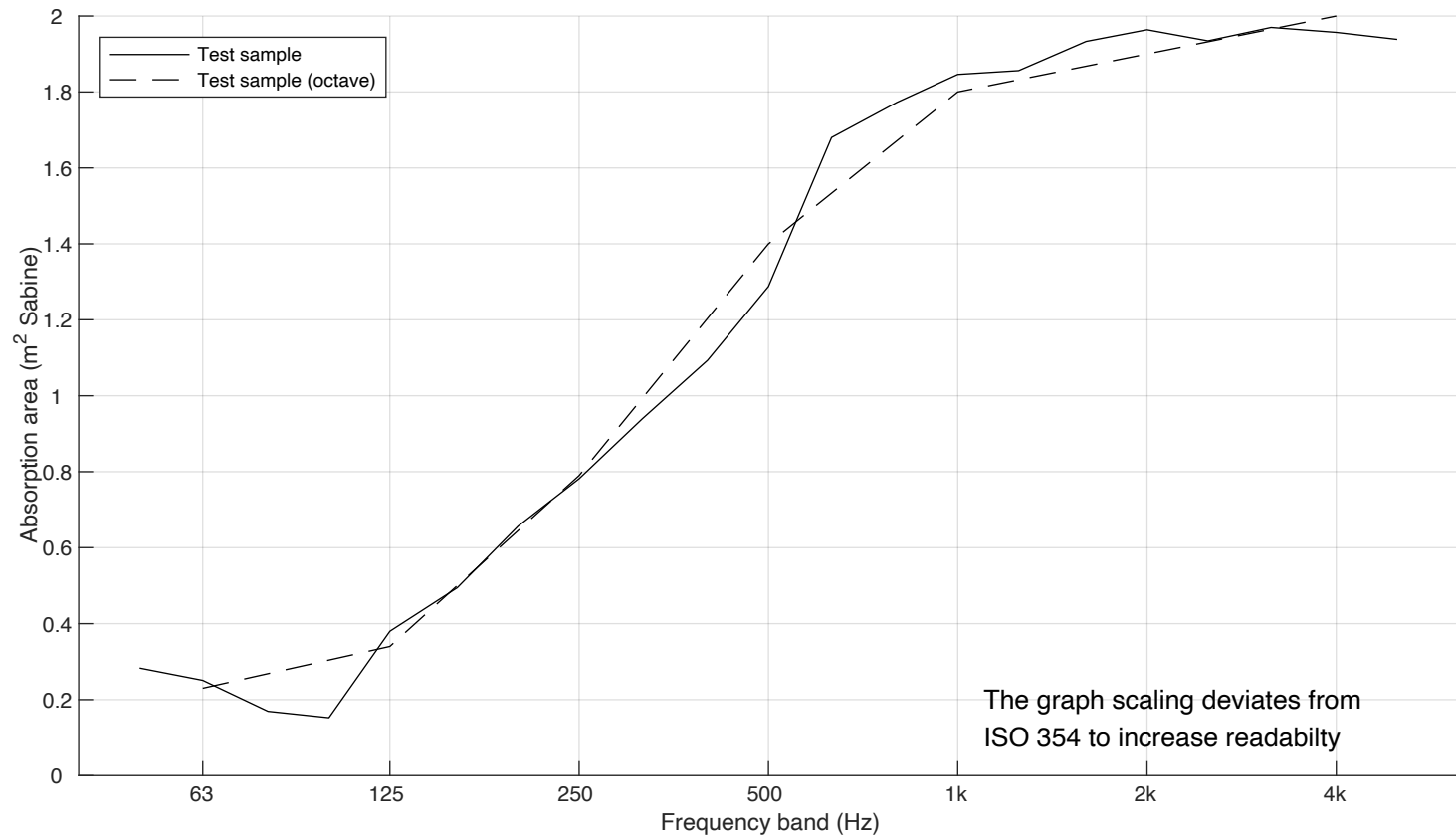
Description of test specimen: Sound absorbing desk screen with metal frame.  
 Core of 100% recycled PET fibre dressed in polyester fabric.  
 Size 1400 x 800 x 30 mm.

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

18-705-M5 - Akuframe 1600x650 Nate.txt  
 and  
 18-705-M6 - Akuframe 2000x650 Nate.txt

	Height	Width
Object 1 size	650	1600
Object 2 size	650	2000
Interpolated object size	800	1400

Area difference 7 %



$$N_{10} = 7.1$$