# Hertz 100 x 140

SOUND ABSORPTION AREA - CALCULATED FROM MEASUREMENTS

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

Ackred. nr. 10445 Provning ISO/IEC 17025

Report number: 21-738-M24

Date 2021-10-29

| Frequency f [Hz] | Sound absorption area per object [m² Sabine] | |
|---|---|---|
| 50 | 0.39 | |
| 63 | 0.35 | 0.35 |
| 80 | 0.31 | |
| 100 | 0.21 | |
| 125 | 0.66 | 0.56 |
| 160 | 0.79 | |
| 200 | 1.12 | |
| 250 | 1.21 | 1.2 |
| 315 | 1.40 | |
| 400 | 1.65 | |
| 500 | 1.99 | 2.0 |
| 630 | 2.35 | |
| 800 | 2.65 | |
| 1000 | 2.67 | 2.7 |
| 1250 | 2.72 | |
| 1600 | 2.61 | |
| 2000 | 2.51 | 2.6 |
| 2500 | 2.61 | |
| 3150 | 2.55 | |
| 4000 | 2.58 | 2.6 |
| 5000 | 2.75 | |

$N_{10} = 5$

Client: Decibel by Johansson

Manufacturer: Decibel by Johansson

Product identification: Hertz 100 x 140

Description of test specimen: Hertz floor screen is made of a wooden frame with sound absorbing filling covered with fabric resulting in a total thickness of 45 mm.

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

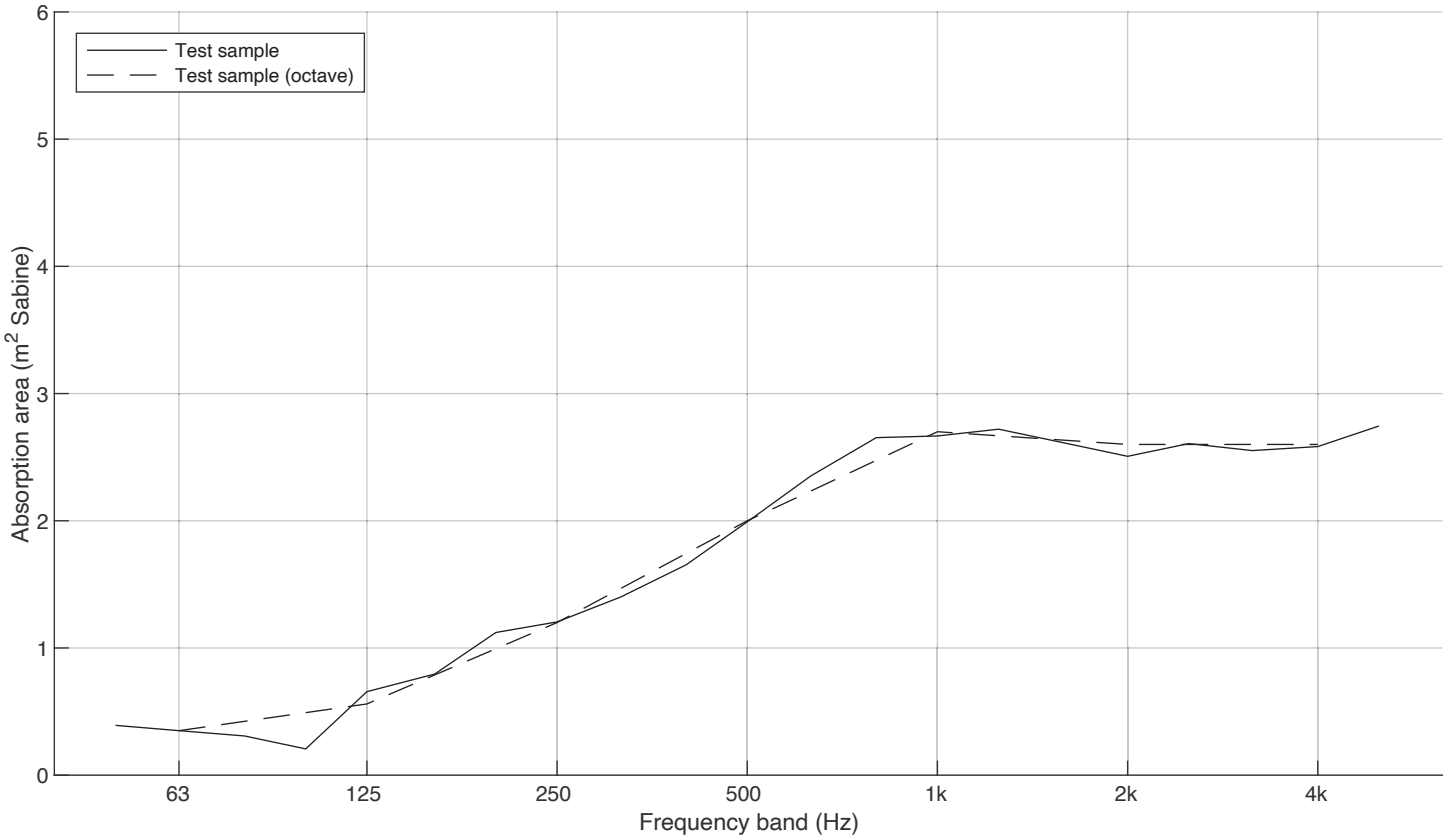
21-738-M12 Hertz 100x120.txt

and

21-738-M11 Hertz 80x180.txt

| | Height | Width |
|---|---|---|
| Object 1 size | 1200 | 1000 |
| Object 2 size | 1800 | 800 |
| Interpolated object size | 1400 | 1000 |

Area difference 3 %

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# Hertz floor 100 x 160

SOUND ABSORPTION AREA - CALCULATED FROM MEASUREMENTS

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

Ackred. nr. 10445 Provning ISO/IEC 17025

Report number: 21-738-M25

Date 2021-10-29

| Frequency f [Hz] | Sound absorption area per object [$m^2$ Sabine] | |
|---|---|---|
| 50 | 0.46 | |
| 63 | 0.41 | 0.41 |
| 80 | 0.37 | |
| 100 | 0.23 | |
| 125 | 0.76 | 0.65 |
| 160 | 0.97 | |
| 200 | 1.22 | |
| 250 | 1.37 | 1.4 |
| 315 | 1.58 | |
| 400 | 1.83 | |
| 500 | 2.18 | 2.2 |
| 630 | 2.66 | |
| 800 | 2.95 | |
| 1000 | 3.02 | 3.0 |
| 1250 | 3.01 | |
| 1600 | 2.91 | |
| 2000 | 2.85 | 2.9 |
| 2500 | 3.00 | |
| 3150 | 2.93 | |
| 4000 | 2.98 | 3.0 |
| 5000 | 3.17 | |

$N_{10} = 4.5$

Client: Decibel by Johansson

Manufacturer: Decibel by Johansson

Product identification: Hertz floor 100 x 160

Description of test specimen: Hertz floor screen is made of a wooden frame with sound absorbing filling covered with fabric resulting in a total thickness of 45 mm. Tested standing on the floor.

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

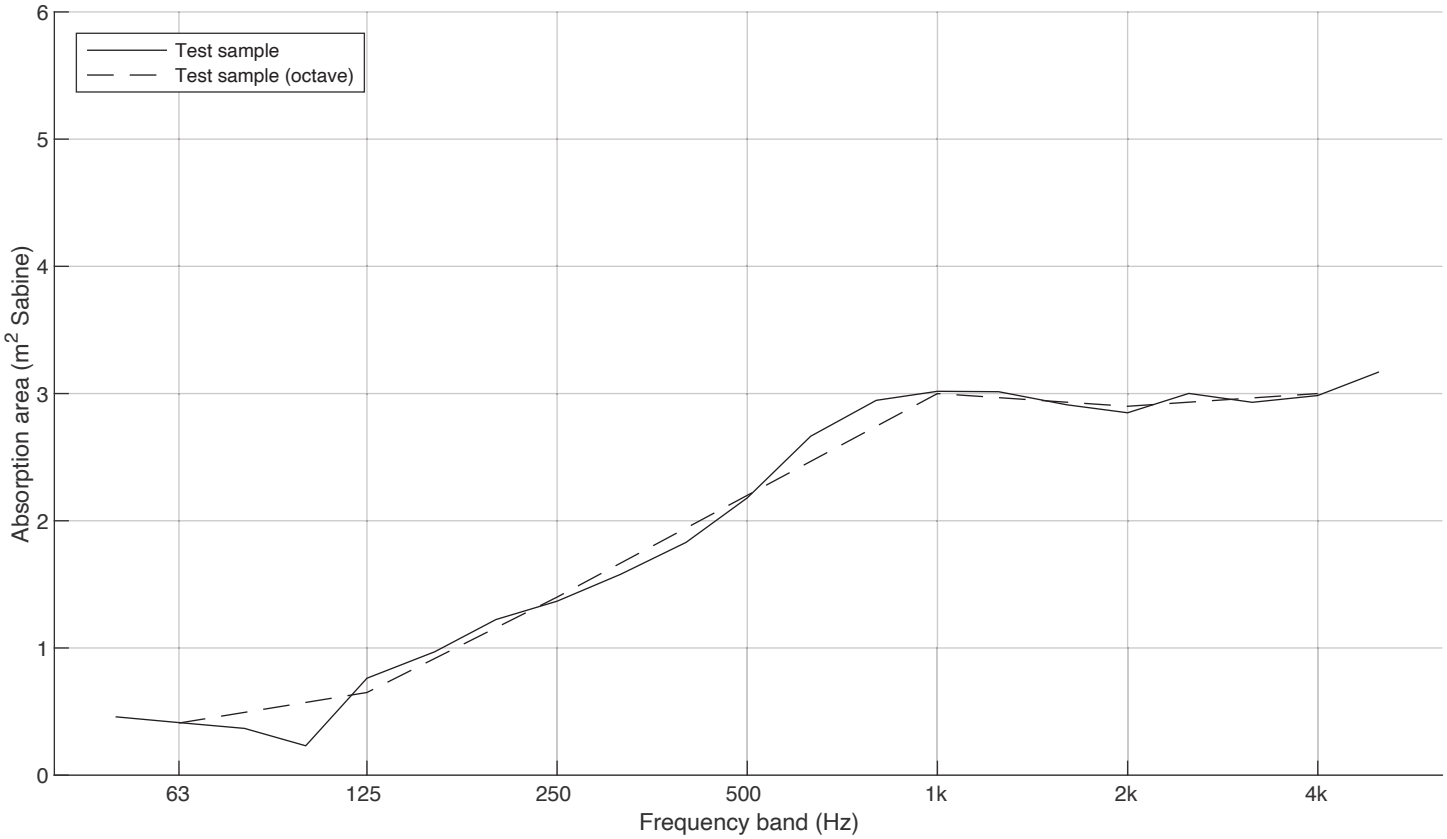
21-738-M11 Hertz 80x180.txt

and

21-738-M13 Hertz 100x180.txt

| | Height | Width |
|---|---|---|
| Object 1 size | 1800 | 800 |
| Object 2 size | 1800 | 1000 |
| Interpolated object size | 1600 | 1000 |

Area difference 10 %

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# Hertz 120 x 120

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:
21-738-M26
Date
2021-10-29

| Frequency f [Hz] | Sound absorption area per object [m² Sabine] | |
|---|---|---|
| 50 | 0.41 | |
| 63 | 0.36 | 0.36 |
| 80 | 0.31 | |
| 100 | 0.20 | |
| 125 | 0.66 | 0.57 |
| 160 | 0.85 | |
| 200 | 1.17 | |
| 250 | 1.27 | 1.3 |
| 315 | 1.45 | |
| 400 | 1.71 | |
| 500 | 2.06 | 2.1 |
| 630 | 2.42 | |
| 800 | 2.76 | |
| 1000 | 2.76 | 2.8 |
| 1250 | 2.81 | |
| 1600 | 2.69 | |
| 2000 | 2.60 | 2.7 |
| 2500 | 2.69 | |
| 3150 | 2.62 | |
| 4000 | 2.66 | 2.7 |
| 5000 | 2.85 | |

$N_{10} = 4.8$

Client: Decibel by Johansson

Manufacturer: Decibel by Johansson

Product identification: Hertz 120 x 120

Description of test specimen: Hertz floor screen is made of a wooden frame with sound absorbing filling covered with fabric resulting in a total thickness of 45 mm.

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

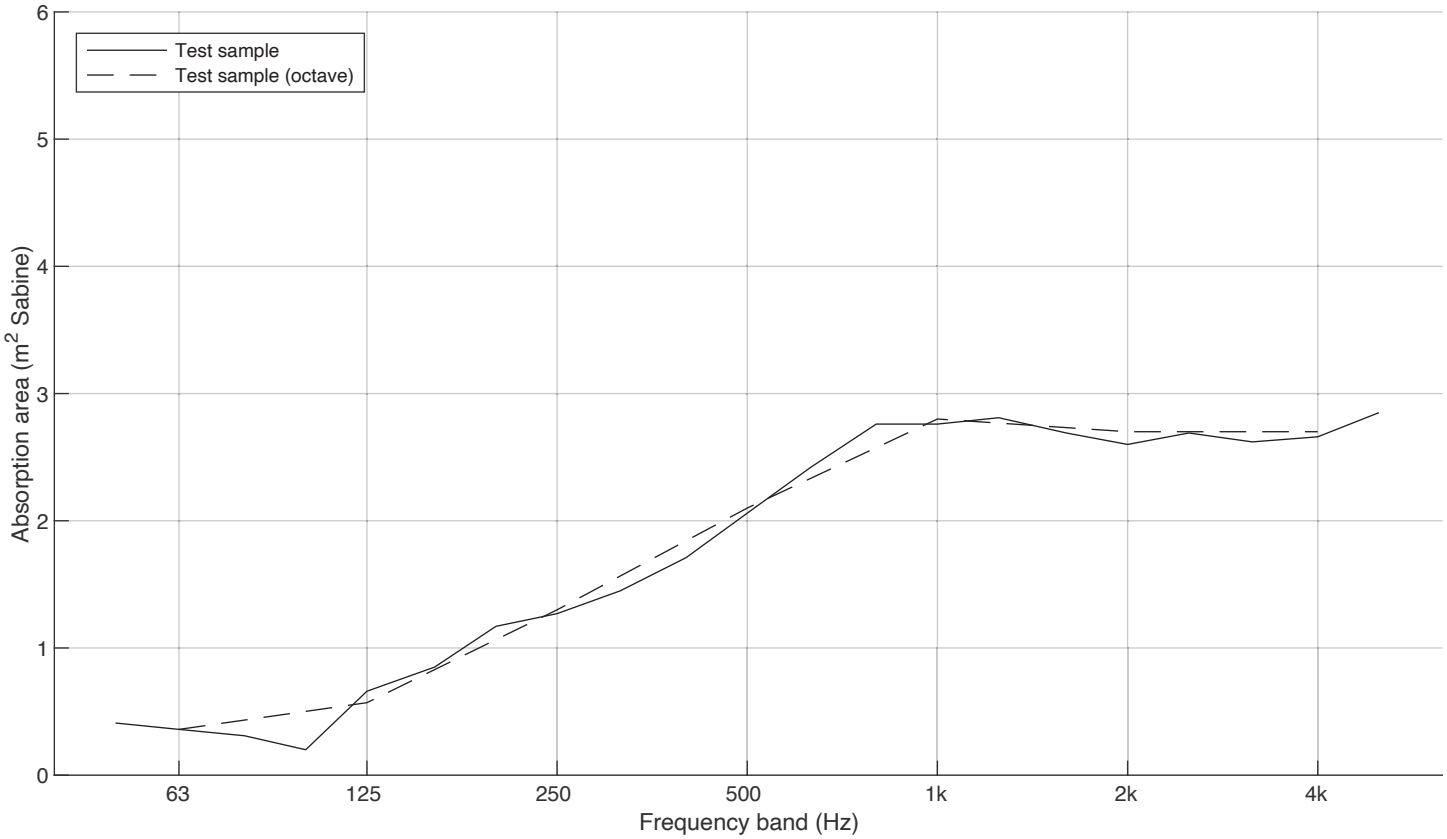
21-738-M12 Hertz 100x120.txt

and

21-738-M11 Hertz 80x180.txt

| | Height | Width |
|---|---|---|
| Object 1 size | 1200 | 1000 |
| Object 2 size | 1800 | 800 |
| Interpolated object size | 1200 | 1200 |

Area difference 0 %

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# Hertz floor 120 x 140

SOUND ABSORPTION AREA - CALCULATED FROM MEASUREMENTS

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

Ackred. nr. 10445 Provning ISO/IEC 17025

Report number: 21-738-M27

Date 2021-10-29

| Frequency f [Hz] | Sound absorption area per object [m² Sabine] | |
|---|---|---|
| 50 | 0.48 | |
| 63 | 0.44 | 0.44 |
| 80 | 0.40 | |
| 100 | 0.25 | |
| 125 | 0.81 | 0.70 |
| 160 | 1.03 | |
| 200 | 1.25 | |
| 250 | 1.42 | 1.4 |
| 315 | 1.64 | |
| 400 | 1.89 | |
| 500 | 2.24 | 2.3 |
| 630 | 2.79 | |
| 800 | 3.04 | |
| 1000 | 3.15 | 3.1 |
| 1250 | 3.12 | |
| 1600 | 3.02 | |
| 2000 | 2.97 | 3.1 |
| 2500 | 3.16 | |
| 3150 | 3.09 | |
| 4000 | 3.15 | 3.2 |
| 5000 | 3.33 | |

$N_{10} = 4.3$

Client: Decibel by Johansson

Manufacturer: Decibel by Johansson

Product identification: Hertz floor 120 x 140

Description of test specimen: Hertz floor screen is made of a wooden frame with sound absorbing filling covered with fabric resulting in a total thickness of 45 mm. Tested standing on the floor.

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

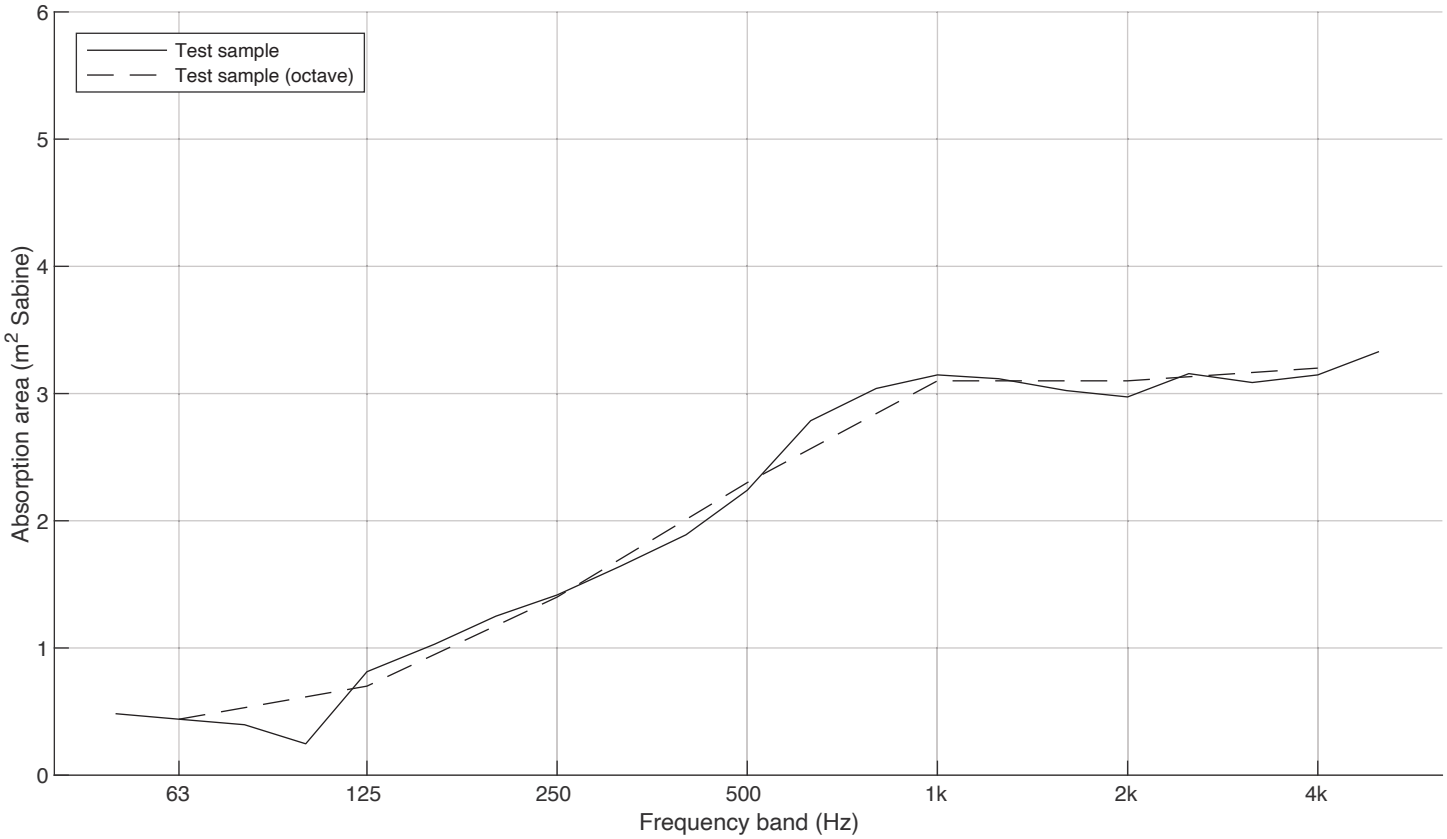
21-738-M11 Hertz 80x180.txt

and

21-738-M13 Hertz 100x180.txt

| | Height | Width |
|---|---|---|
| Object 1 size | 1800 | 800 |
| Object 2 size | 1800 | 1000 |
| Interpolated object size | 1400 | 1200 |

Area difference 7 %

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# Hertz floor 120 x 160

SOUND ABSORPTION AREA - CALCULATED FROM MEASUREMENTS

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

Ackred. nr. 10445
Provning
ISO/IEC 17025

Report number:
21-738-M28
Date
2021-10-29

| Frequency f [Hz] | Sound absorption area per object [$m^2$ Sabine] | |
|---|---|---|
| 50 | 0.55 | |
| 63 | 0.54 | 0.51 |
| 80 | 0.44 | |
| 100 | 0.29 | |
| 125 | 0.94 | 0.79 |
| 160 | 1.15 | |
| 200 | 1.41 | |
| 250 | 1.59 | 1.6 |
| 315 | 1.85 | |
| 400 | 2.09 | |
| 500 | 2.48 | 2.6 |
| 630 | 3.15 | |
| 800 | 3.36 | |
| 1000 | 3.51 | 3.5 |
| 1250 | 3.48 | |
| 1600 | 3.41 | |
| 2000 | 3.34 | 3.4 |
| 2500 | 3.55 | |
| 3150 | 3.53 | |
| 4000 | 3.63 | 3.6 |
| 5000 | 3.76 | |

$N_{10} = 3.8$

Client: Decibel by Johansson

Manufacturer: Decibel by Johansson

Product identification: Hertz floor 120 x 160

Description of test specimen: Hertz floor screen is made of a wooden frame with sound absorbing filling covered with fabric resulting in a total thickness of 45 mm. Tested standing on the floor.

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

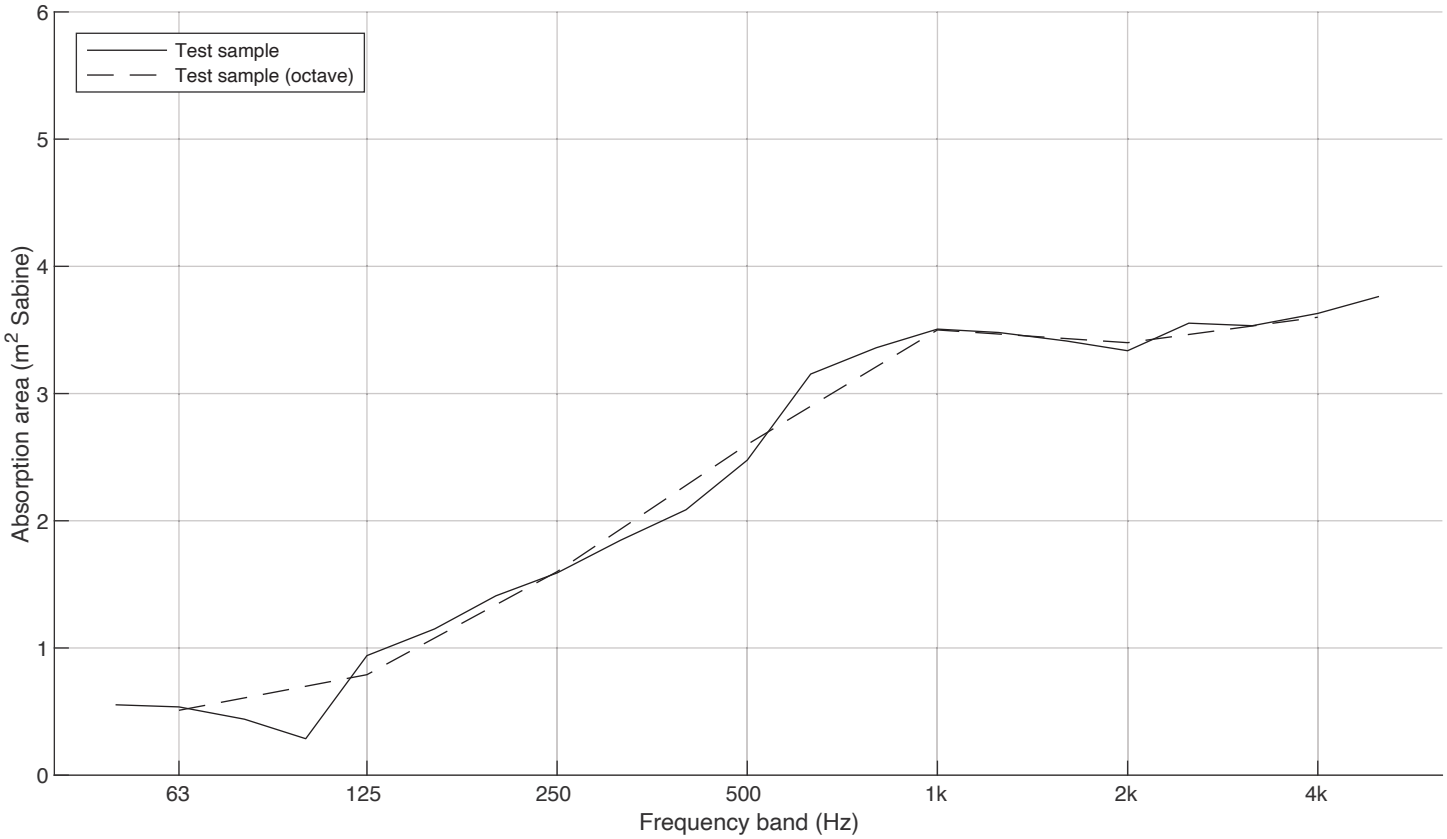
21-738-M13 Hertz 100x180.txt

and

21-738-M14 Hertz 120x180.txt

| | Height | Width |
|---|---|---|
| Object 1 size | 1800 | 1000 |
| Object 2 size | 1800 | 1200 |
| Interpolated object size | 1600 | 1200 |

Area difference 6 %

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