

Technical Acoustics Laboratory
Department of Mechanics and Vibroacoustics
AGH University of Science and Technology
Al. Mickiewicza 30, 30-059 Cracow
Tel/fax: (48 12) 617 35 17

Page 1/1

Ordering party:
BEJOT SP. Z O.O.
ul. Wybickiego 2a, Manieczki
63-112 Brodnica near Poznań

Acoustic Test Certificate

The acoustic performance measurement of the office screen in model laboratory conditions according to PN-ISO 10053:2001

Name of the tested sample:

Date of measurement: 12 June 2014

Measurement sample:

Calma / Selva, MDF board in the cover with acoustic felt filling

Total dimensions [mm]: 5636 x 1360 x 50

Element dimensions [mm]: 800 x 1360 x 50

Number of elements [pieces]: 7

Manufacturer:

BEJOT SP. Z O.O.

ul. Wybickiego 2a, Manieczki

63-112 Brodnica near Poznań

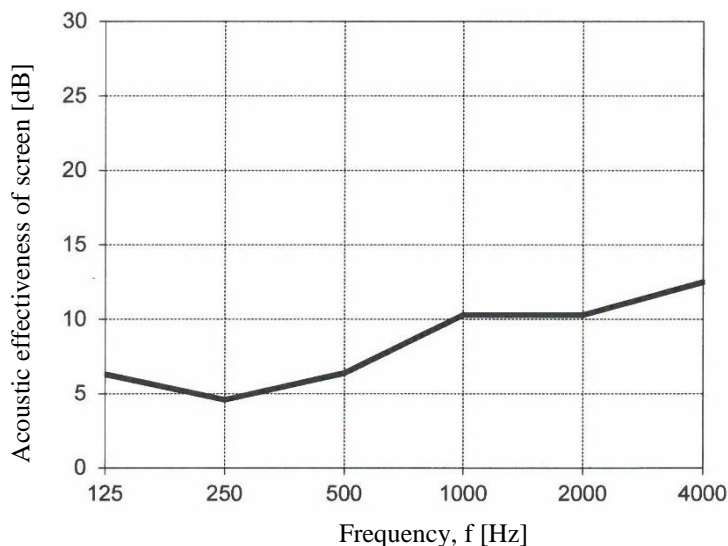
Measurement conditions:

Temperature, t [°C]: 23.1

Relative humidity, h [%]: 43.0

Volume of anechoic chamber, $[m^3]$: 342

f [Hz]	ΔL_s	$\Delta L_{s \text{ avg.}}$	$\Delta L_{s w}$
125	6	8	8
250	5		
500	6		
1000	10		
2000	10		
4000	12		



This document summarises test report No 5.5.130.02

ΔL_E – Acoustic performance of the screen within frequencies according to PN-ISO 10053

$\Delta L_{E \text{ avg.}}$ – Single-number assessment rating according to Appendix B of PN-ISO 10053

$\Delta L_{E w}$ – Weighted acoustic performance of the screen according to Appendix B of PN-ISO 10053

Stamp:

["AGH University of Science and Technology in Cracow
Faculty of Mechanical Engineering and Robotics
Department of Mechanics and Vibroacoustics
30-059 Cracow, Al. Mickiewicza 30, building D1
tel.: 12 617 30 64, fax: 12 633 23 14
Tax No: 6750001023"]

Manager of the subject:

prof. Tadeusz Kamisiński, Eng.

kamisins@agh.edu.pl

[Illegible signature]

Tests performed by:

Marcin Zastawnik, MSc, Eng.

Acoustic Test Certificate

The sound absorption coefficient measurement in the reverberation chamber according to PN-EN ISO 354:2005

Name of the tested sample:

Date of measurement: 15 December 2015

Selva wall and ceiling panel 600 x 1800 x 35

Measurement sample:

Manufacturer:

Total dimensions [mm]: 3000 x 3600 x 35

BEJOT SP. Z O.O.

Element dimensions [mm]: 600 x 1800 x 35

ul. Wybickiego 2a, Manieczki

Number of elements [pieces]: 10

63-112 Brodnica near Poznań

Area, S [m²]: 11.3

Assembly method: A

Sample description:

Measurement conditions:

Upholstery fabric

Temperature with sample, t [°C]: 23.7

25-mm poroso non-woven fabric

Temperature without sample, t [°C]: 23.6

10-mm MDF board

Relative humidity with sample, h [%]: 34.1

Shaping profile, ABS, thickness: 2 mm, width: 31 mm

Relative humidity without sample, h [%]: 35.0

Number of measurement points: 12

Number of dispersive elements [m³]: 5

Volume of reverberation chamber [m³]: 180.4

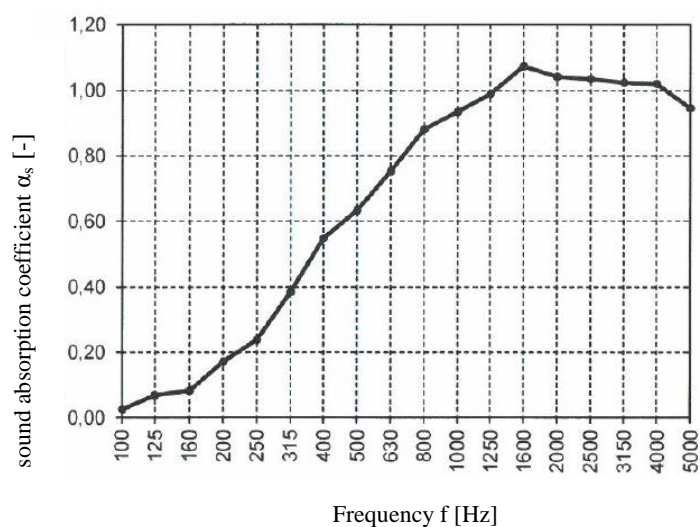
Total area of chamber [m²]: 193.6

f[Hz]	T ₁ [s]	T ₂ [s]	α_s	α_p
100	8.33	7.66	0.03	0.05
125	7.09	5.97	0.07	
160	6.74	5.56	0.08	
200	7.83	5.16	0.17	0.25
250	8.42	4.73	0.24	
315	8.64	3.77	0.38	
400	8.21	2.99	0.55	0.65
500	7.47	2.63	0.63	
630	7.66	2.36	0.75	
800	7.04	2.06	0.88	0.95
1000	6.62	1.94	0.94	
1250	5.89	1.80	0.99	
1600	4.95	1.61	1.07	1.00
2000	4.36	1.57	1.04	
2500	3.77	1.49	1.04	
3150	3.26	1.42	1.02	1.00
4000	2.63	1.28	1.02	
5000	1.96	1.14	0.95	

PN-EN ISO 11654:1999

Absorption class: D

A_w = 0.55 (M\H)



α_s – Sound absorption coefficient according to PN-EN ISO 354:2005

α_p – Practical sound absorption coefficient according to PN-EN ISO 11654:1999

α_w – Sound absorption indicator according to PN-EN ISO 11654:1999

T₁, T₂ - Period of reverberation of the empty chamber according to PN-EN ISO 354:2005

This document summarises test report No 5.5.130.292

Stamp:

["AGH University of Science and Technology in Cracow
 Faculty of Mechanical Engineering and Robotics
 Department of Mechanics and Vibroacoustics
 30-059 Cracow, Al. Mickiewicza 30, building D1
 tel.: 12 617 30 64, fax: 12 633 23 14
 Tax No: 6750001023"]

Manager of the subject:

prof. Tadeusz Kamiński, Eng.

kamisins@agh.edu.pl

[Illegible signature]

Tests performed by:

Jarosław Rubacha, PhD, Eng.

Acoustic Test Certificate

The sound absorption coefficient measurement in the reverberation chamber according to PN-EN ISO 354:2005

Name of the tested sample:

Date of measurement: 15 December 2015

Selva free-standing screen 800 x 1600 x 52

Measurement sample:

Manufacturer:

Total dimensions [mm]: 3200 x 3200 x 52

BEJOT SP. Z O.O.

Element dimensions [mm]: 800 x 1600 x 52

ul. Wybickiego 2a, Manieczki

Number of elements [pieces]: 8

63-112 Brodnica near Poznań

Area, S [m²]: 10.9

Assembly method: A

Sample description:

Measurement conditions:

Upholstery fabric

Temperature with sample, t [°C]: 23.7

25-mm poroso non-woven fabric (squeezed)

Temperature without sample, t [°C]: 23.6

6-mm MDF board

Relative humidity with sample, h [%]: 35.8

25-mm poroso non-woven fabric (squeezed)

Relative humidity without sample, h [%]: 35.1

Upholstery fabric

Number of measurement points: 12

Pine timber frame

Number of dispersive elements [m³]: 5

Volume of reverberation chamber [m³]: 180.4

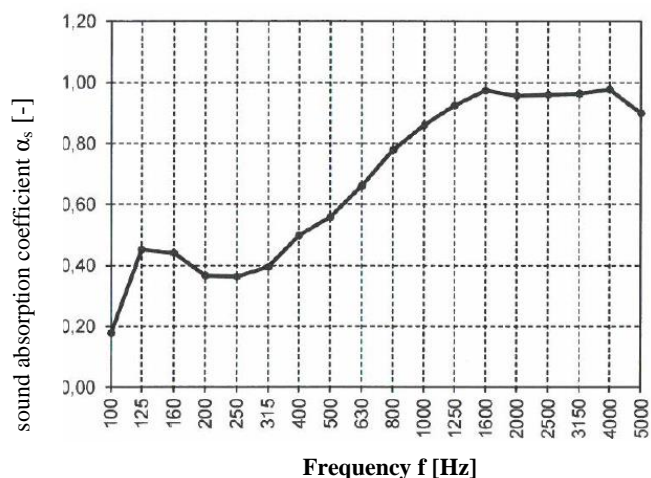
Total area of chamber [m²]: 193.6

f [Hz]	T ₁ [s]	T ₂ [s]	α_s	α_p
100	8.33	5.36	0.18	0.35
125	7.09	3.21	0.45	
160	6.74	3.18	0.44	
200	7.83	3.77	0.37	0.35
250	8.42	3.91	0.36	
315	8.64	3.79	0.39	
400	8.21	3.23	0.50	0.55
500	7.47	2.91	0.56	
630	7.66	2.64	0.66	
800	7.04	2.30	0.78	0.85
1000	6.62	2.10	0.86	
1250	5.89	1.93	0.92	
1600	4.95	1.76	0.97	0.95
2000	4.36	1.70	0.96	
2500	3.77	1.60	0.96	
3150	3.26	1.49	0.96	0.95
4000	2.63	1.34	0.98	
5000	1.96	1.18	0.90	

PN-EN ISO 11654:1999

Absorption class: C

Aw = 0.60 (M/H)



α_s – Sound absorption coefficient according to PN-EN ISO 354:2005

α_p – Practical sound absorption coefficient according to PN-EN ISO 11654:1999

α_w – Sound absorption indicator according to PN-EN ISO 11654:1999

T₁, T₂ - Period of reverberation of the empty chamber according to PN-EN ISO 354:2005

This document summarises test report No 5.5.130.292

Stamp:

["AGH University of Science and Technology in Cracow
 Faculty of Mechanical Engineering and Robotics
 Department of Mechanics and Vibroacoustics
 30-059 Cracow, Al. Mickiewicza 30, building D1
 tel.: 12 617 30 64, fax: 12 633 23 14
 Tax No: 6750001023"]

Manager of the subject:

prof. Tadeusz Kamisiński, Eng.
kamisins@agh.edu.pl
 [Illegible signature]

Tests performed by:

Jarosław Rubacha, PhD, Eng.

Acoustic Test Certificate

The sound absorption coefficient measurement in the reverberation chamber according to PN-EN ISO 354:2005

Name of the tested sample:

Date of measurement: 27 January 2016

Selva free-standing screen 800 x 1600 x 52

Measurement sample:

Manufacturer:

Total dimensions [mm]: -

BEJOT SP. Z O.O.

Element dimensions [mm]: 800 x 1600 x 52

ul. Wybickiego 2a, Manieczki

Number of elements [pieces]: 4

63-112 Brodnica near Poznań

Area, S [m²]: 10.2

Assembly method: elements placed vertically on the floor

Sample description:

Measurement conditions:

Upholstery fabric

Temperature, t [°C]: 22.8

25-mm poroso non-woven fabric (squeezed)

Temperature change, Δt [°C]: 0.1

6-mm MDF board

Relative humidity, h [%]: 38.2

25-mm poroso non-woven fabric (squeezed)

Relative humidity change, Δh [%]: -0.1

Upholstery fabric

Number of measurement points: 12

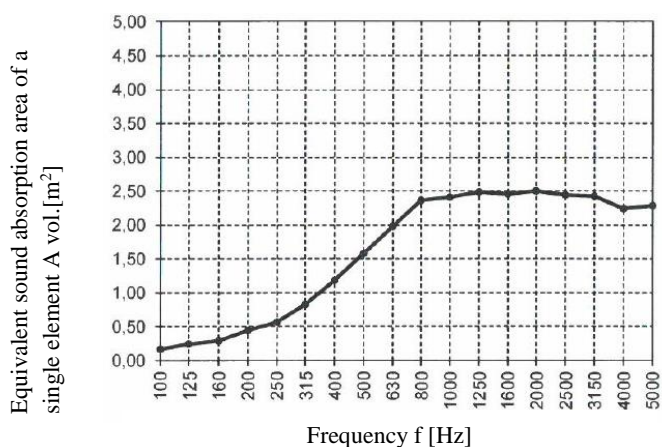
Pine timber frame

Number of dispersive elements [m³]: 5

Volume of reverberation chamber [m³]: 180.4

Total area of chamber [m²]: 193.6

f [Hz]	T_1 [s]	T_2 [s]	$A_{vol.}$ [m ²]
100	8.40	7.04	0.17
125	7.27	5.82	0.25
160	6.82	5.39	0.28
200	7.91	5.31	0.45
250	8.50	5.11	0.57
315	8.70	4.36	0.83
400	8.31	3.52	1.19
500	7.50	2.84	1.58
630	7.69	2.48	1.98
800	7.06	2.14	2.36
1000	6.74	2.08	2.41
1250	5.98	1.96	2.48
1600	5.03	1.86	2.45
2000	4.44	1.75	2.50
2500	3.82	1.67	2.44
3150	3.35	1.58	2.43
4000	2.67	1.46	2.24
5000	2.11	1.27	2.29



$A_{vol.}$ – Sound absorption of a single element according to PN-EN ISO 354:2005

T_1 , T_2 - Period of reverberation of the empty chamber according to PN-EN ISO 354:2005

This document summarises test report No 5.5.130.316

Stamp:

["AGH University of Science and Technology in Cracow
 Faculty of Mechanical Engineering and Robotics
 Department of Mechanics and Vibroacoustics
 30-059 Cracow, Al. Mickiewicza 30, building D1
 tel.: 12 617 30 64, fax: 12 633 23 14
 Tax No: 6750001023"]

Manager of the subject:

prof. Tadeusz Kamisiński, Eng.
kamisins@agh.edu.pl
 [Illegible signature]

Tests performed by:

Jarosław Rubacha, PhD, Eng.

Acoustic Test Certificate

The sound absorption coefficient measurement in the reverberation chamber according to PN-EN ISO 354:2005

Name of the tested sample:

Date of measurement: 15 December 2015

Selva wall and ceiling panel 600 x 1800 x 50

Measurement sample:

Manufacturer:

Total dimensions [mm]: 3000 x 3600 x 50

BEJOT SP. Z O.O.

Element dimensions [mm]: 600 x 1800 x 50

ul. Wybickiego 2a, Manieczki

Number of elements [pieces]: 10

63-112 Brodnica near Poznań

Area, S [m²]: 11.5

Assembly method: A

Sample description:

Measurement conditions:

Upholstery fabric

Temperature with sample, t [°C]: 23.7

2 x 25-mm poroso non-woven fabric (squeezed)

Temperature without sample, t [°C]: 23.7

10-mm MDF board

Relative humidity with sample, h [%]: 35.1

Shaping profile, ABS, thickness: 2 mm, width: 42 mm,

Relative humidity without sample, h [%]: 35.1

Number of measurement points: 12

Number of dispersive elements [m³]: 5

Volume of reverberation chamber [m³]: 180.4

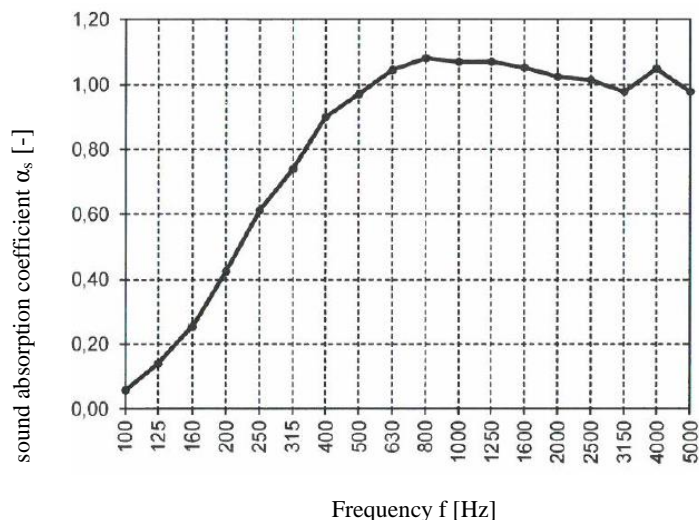
Total area of chamber [m²]: 193.6

f[Hz]	T ₁ [s]	T ₂ [s]	α_s	α_p
100	8.33	6.99	0.06	0.15
125	7.09	5.10	0.14	
160	6.74	4.02	0.25	
200	7.83	3.38	0.42	0.60
250	8.42	2.77	0.61	
315	8.64	2.45	0.74	
400	8.21	2.09	0.90	0.95
500	7.47	1.93	0.97	
630	7.66	1.84	1.04	
800	7.04	1.75	1.08	1.00
1000	6.62	1.74	1.07	
1250	5.89	1.68	1.07	
1600	4.95	1.62	1.05	1.00
2000	4.36	1.57	1.02	
2500	3.77	1.50	1.01	
3150	3.26	1.44	0.98	1.00
4000	2.63	1.26	1.05	
5000	1.96	1.11	0.98	

PN-EN ISO 11654:1999

Absorption class: A

$\alpha_w = 0.90$



α_s – Sound absorption coefficient according to PN-EN ISO 354:2005

α_p – Practical sound absorption coefficient according to PN-EN ISO 11654:1999

α_w – Sound absorption indicator according to PN-EN ISO 11654:1999

T₁, T₂ - Period of reverberation of the empty chamber according to PN-EN ISO 354:2005

This document summarises test report No 5.5.130.292

Stamp:

["AGH University of Science and Technology in Cracow
 Faculty of Mechanical Engineering and Robotics
 Department of Mechanics and Vibroacoustics
 30-059 Cracow, Al. Mickiewicza 30, building D1
 tel.: 12 617 30 64, fax: 12 633 23 14
 Tax No: 6750001023"]

Manager of the subject:

prof. Tadeusz Kamisiński, Eng.

kamisins@agh.edu.pl

[Illegible signature]

Tests performed by:

Jarosław Rubacha, PhD, Eng.