Ważony współczynnik pochłaniania dźwięku α_w według EN ISO 11654

SonicVoid 1300

Zasłona akustyczna zaciemniająca, **jedna warstwa** · kod produktu 45003

WAŻONY WSPÓŁCZYNNIK POCHŁANIANIA DŹWIĘKU

$\alpha_w = 0{,}75$

Klasa pochłaniania

C

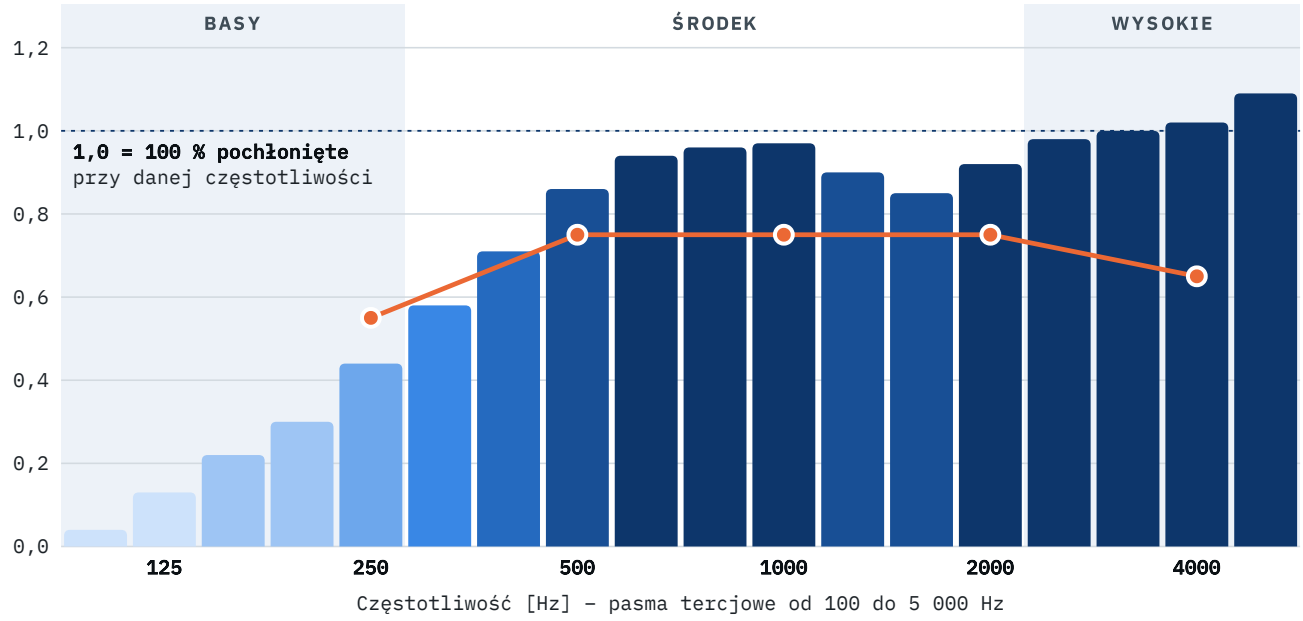
według EN ISO 11654

1. Zmierzone współczynniki pochłaniania w pasmach tercjowych

F [HZ]	100	125	160	200	250	315	400	500	630	800	1000	1250	1600	2000	2500	3150	4000	5000
α_s	0,04	0,13	0,22	0,30	0,44	0,58	0,71	0,86	0,94	0,96	0,97	0,90	0,85	0,92	0,98	1,00	1,02	1,09

Źródło wartości: raport RAL™-A12-119, strona 2 (załącznik do tego dokumentu).

2. Pochłanianie w zależności od częstotliwości



zmierzony współczynnik pochłaniania α_s (im ciemniej, tym więcej pochłania)

krzywa odniesienia ISO 11654 dla $\alpha_w = 0{,}75$

3. Klasa pochłaniania dźwięku

E	D	C	B	A
0,15–0,25	0,30–0,55	0,60–0,75	0,80–0,85	0,90–1,00

▲ SonicVoid 1300: $\alpha_w = 0{,}75$ → klasa C

4. Obliczenie według EN ISO 11654

OKTAWA [HZ]	A_S TERCJE	ŚREDNIA	A_P	KRZYWA ODN.	ODCHYLENIE NIEKORZYSTNE
125	0,04 · 0,13 · 0,22	0,130	**0,15**	–	–
250	0,30 · 0,44 · 0,58	0,440	**0,45**	0,55	0,10
500	0,71 · 0,86 · 0,94	0,837	**0,85**	0,75	0,00
1000	0,96 · 0,97 · 0,90	0,943	**0,95**	0,75	0,00
2000	0,85 · 0,92 · 0,98	0,917	**0,90**	0,75	0,00
4000	1,00 · 1,02 · 1,09	1,037	**1,00***	0,65	0,00
Suma odchyleń niekorzystnych (250–4 000 Hz) — limit normy ≤ 0,10					**0,10**

* Średnia zaokrąglona do 0,05 i ograniczona zgodnie z normą do 1,00. Krzywą odniesienia (0,80 / 1,00 / 1,00 / 1,00 / 0,90) przesuwa się co 0,05 w dół, aż suma odchyleń niekorzystnych nie przekroczy 0,10. Przy wartości 0,75 w paśmie 500 Hz suma wynosi 0,10, dlatego α_W = 0,75. Wskaźnik kształtu H: α_P przekracza krzywą o 0,25 lub więcej w paśmie 2 000–4 000 Hz (materiał pochłania tam więcej, niż wskazuje α_W). Według załącznika B normy α_W 0,60–0,75 odpowiada klasie pochłaniania C.

5. Pomiar laboratoryjny będący podstawą

Laboratorium	Riverbank Acoustical Laboratories, 1512 S Batavia Ave, Geneva, IL, USA — akredytacja NVLAP (Lab Code 100227-0), ISO/IEC 17025:2017
Raport	RAL™-A12-119, pomiar 13.04.2012
Metoda	ASTM C423-09a i E795-05, komora pogłosowa 292 m³, 22 °C, 63 % RH
Montaż	typ G-75 wg ASTM E795: jedna warstwa zawieszona równolegle do ściany komory w odległości 75 mm
Próbka	Producer’s Choice Acoustic Blankets VB-72 (mieszanka bawełny, wypełnienie z bawełny z recyklingu), 2,46 × 2,74 m, powierzchnia 6,8 m²

6. Uwaga

Dokument wydała firma VocalBoothToGo-EU s.r.o. Nie jest to raport laboratoryjny, a Riverbank Acoustical Laboratories nie jest jego autorem. Wartość α_W obliczono według EN ISO 11654 z tercjowych współczynników pochłaniania zmierzonych przez laboratorium metodą ASTM C423, analogiczną do EN ISO 354 (komora pogłosowa).

Wyniki dotyczą badanej próbki i podanego sposobu montażu. Oryginalny raport laboratorium dołączono bez zmian jako załącznik.

Załącznik: raport Riverbank Acoustical Laboratories RAL™-A12-119 (4 stron, oryginał).

Opracowała: VocalBoothToGo-EU s.r.o.

Data: 28.09.2026

RIVERBANK ACOUSTICAL LABORATORIES

1512 S. BATAVIA AVENUE
GENEVA, ILLINOIS 60134

Alion Science and Technology

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TEST REPORT

FOR: MoversSupplies.com
Jefferson, MD

Sound Absorption Test
RAL™-A12-119

ON: Producer's Choice Acoustic Blankets VB-72

CONDUCTED: 13 April 2012

TEST METHOD

The test method conformed explicitly with the requirements of the ASTM Standard Test Method for Sound Absorption and Sound Absorption Coefficients by the Reverberation Room Method: ASTM C423-09a and E795-05. Riverbank Acoustical Laboratories has been accredited by the U.S. Department of Commerce, National Institute of Standards and Technology (NIST) under the National Voluntary Laboratory Accreditation Program (NVLAP) for this test procedure (NVLAP Lab Code: 100227-0). A description of the measuring procedure and room qualifications is available separately.

DESCRIPTION OF THE SPECIMEN

The test specimen was designated by the manufacturer as Producer's Choice Acoustic Blankets VB-72. The overall dimensions of the specimen as measured were nominally 2.46 m (97 in.) wide by 2.74 m (108 in.) high and 12.7 mm (0.5 in.) thick. The specimen consisted of two (2) pieces. One (1) piece was nominally 2.46 m (97 in.) wide by 1.93 m (76 in.) high. One (1) piece was nominally 2.46 m (97 in.) wide by 812 mm (32 in.) high. The specimen was tested in the laboratory's 292 m^3 (10,311 ft^3) test chamber.

The manufacturer's description of the specimen was as follows: Producer's Choice Acoustic Blankets VB-72. Straight 2" stitching. Colors – One side black, the other side white. White thread. Woven black binding. Outer material is cotton mix fabric. Filler is recycled cotton. A visual inspection verified the manufacturer's description of the specimen.

The weight of the entire specimen as measured was 6.6 kg (14.5 lbs), an average of 0.97 kg/m^2 (0.2 lbs/ft^2). The area used in the calculations was 6.8 m^2 (72.8 ft^2). The room temperature at the time of the test was 22°C (71°F) and 63±1% relative humidity.

MOUNTING G-75

Test specimen hung parallel to the test surface. The number designates the distance in mm from the centerline of the hangers to the test surface.

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THE RESULTS REPORTED ABOVE APPLY ONLY TO THE SPECIFIC SAMPLE SUBMITTED FOR MEASUREMENT. NO RESPONSIBILITY IS ASSUMED FOR PERFORMANCE OF ANY OTHER SPECIMEN.

NVLAP Lab Code 100227-0

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TEST REPORT

MoversSupplies.com

RAL™-A12-119

13 April 2012

TEST RESULTS

	1/3 Octave Center Frequency (Hz)	Absorption Coefficient	Total Absorption In Sabins
	100	0.04	3.14
**	125	0.13	9.80
	160	0.22	15.76
	200	0.30	21.93
**	250	0.44	32.03
	315	0.58	42.39
	400	0.71	51.75
**	500	0.86	62.69
	630	0.94	68.17
	800	0.96	69.59
**	1000	0.97	70.80
	1250	0.90	65.42
	1600	0.85	61.76
**	2000	0.92	66.77
	2500	0.98	71.13
	3150	1.00	72.44
**	4000	1.02	74.31
	5000	1.09	79.27

SAA = 0.78
NRC = 0.80

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NVLAP

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TEST REPORT

MoversSupplies.com

RAL™-A12-119

13 April 2012

TEST RESULTS (Continued)

The sound absorption average (SAA) is defined as a single number rating, the average, rounded to the nearest 0.01, of the sound absorption coefficient of a material for the twelve one-third octave bands from 200 through 2500 Hz, inclusive.

The noise reduction coefficient (NRC) is defined from previous versions of this same test method as the average of the coefficients at 250, 500, 1000, and 2000 Hz, expressed to the nearest integral multiple of 0.05.

Tested by _____
Marc Sciaky
Experimentalist

Approved by _____
Dean Victor
Senior Experimentalist

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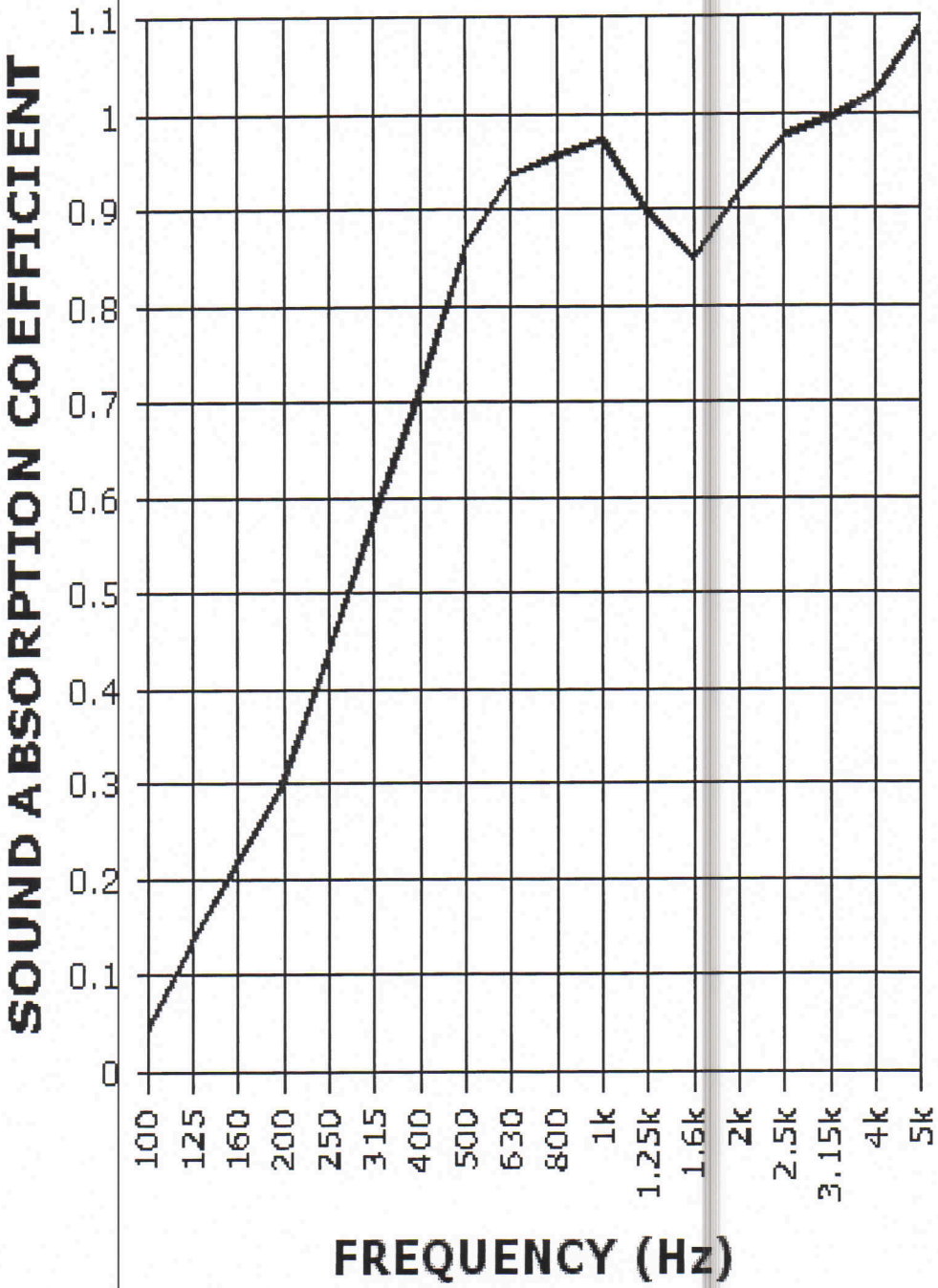
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TEST REPORT

SOUND ABSORPTION REPORT
RAL-A12-119



SAA=0.78
NRC=0.80

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