Vážený činitel zvukové pohltivosti α_w podle EN ISO 11654

deNoise 1300

Akustický závěs, **jedna vrstva** · kód výrobku 490

VÁŽENÝ ČINITEL ZVUKOVÉ POHLTIVOSTI

$\alpha_w = 0,75$

Třída pohltivosti

C

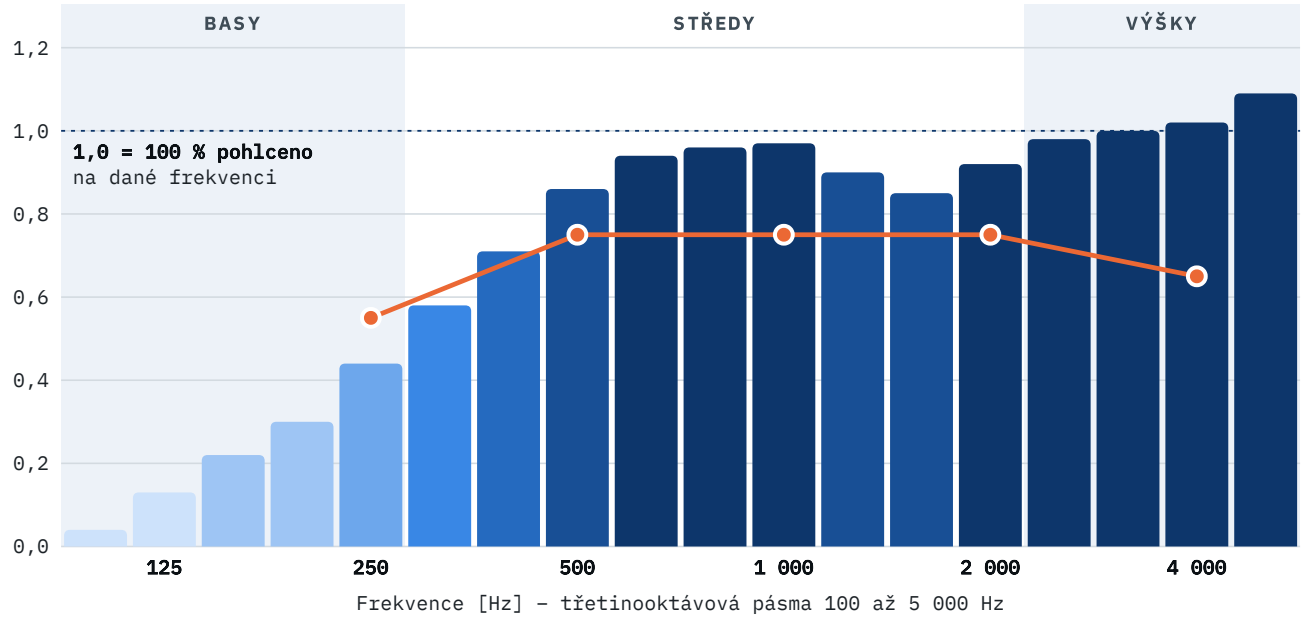
podle EN ISO 11654

1. Naměřené činitele pohltivosti v třetinooktávových pásmech

F [HZ]	100	125	160	200	250	315	400	500	630	800	1 000	1 250	1 600	2 000	2 500	3 150	4 000	5 000
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

Zdroj hodnot: protokol RAL™-A12-119, strana 2 (příloha tohoto dokumentu).

2. Pohltivost podle frekvence



naměřený činitel pohltivosti α_s (čím tmavší, tím víc pohlcuje)

referenční křivka ISO 11654 pro α_w = 0,75

3. Třída zvukové pohltivosti

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

▲ **deNoise 1300: α_w = 0,75 → třída C**

4. Výpočet podle EN ISO 11654

OKTÁVA [HZ]	A_S TŘETINOOKTÁV	PRŮMĚR	A_P	REF. KŘIVKA	NEPŘÍZNIVÁ ODCHYLKA
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
1 000	0,96 · 0,97 · 0,90	0,943	**0,95**	0,75	0,00
2 000	0,85 · 0,92 · 0,98	0,917	**0,90**	0,75	0,00
4 000	1,00 · 1,02 · 1,09	1,037	**1,00***	0,65	0,00
Součet nepříznivých odchylek (250–4 000 Hz) — limit normy ≤ 0,10					**0,10**

* Průměr zaokrouhlen na 0,05 a podle normy omezen na 1,00. Referenční křivka (0,80 / 1,00 / 1,00 / 1,00 / 0,90) se posouvá po 0,05 k nižším hodnotám, dokud součet nepříznivých odchylek nepřesáhne 0,10. Při hodnotě 0,75 v pásmu 500 Hz je součet 0,10, proto α_W = 0,75. Tvarový ukazatel H: α_p převyšuje křivku o 0,25 a více v pásmu 2 000–4 000 Hz (materiál tam pohlcuje víc, než udává α_W). Podle přílohy B normy odpovídá α_W 0,60–0,75 třídě pohltivosti C.

5. Podkladové laboratorní měření

Laboratoř	Riverbank Acoustical Laboratories, 1512 S Batavia Ave, Geneva, IL, USA — akreditace NVLAP (Lab Code 100227-0), ISO/IEC 17025:2017
Protokol	RAL™-A12-119, měření 13. 4. 2012
Metoda	ASTM C423-09a a E795-05, dozvuková komora 292 m³, 22 °C, 63 % RH
Montáž	typ G-75 dle ASTM E795: jedna vrstva zavěšená rovnoběžně se stěnou komory ve vzdálenosti 75 mm
Vzorek	Producer’s Choice Acoustic Blankets VB-72 (bavlněná směs, výplň z recyklované bavlny), 2,46 × 2,74 m, plocha 6,8 m²

6. Upozornění

Tento dokument vydala společnost VocalBoothToGo-EU s.r.o. Nejde o laboratorní protokol a Riverbank Acoustical Laboratories není jeho autorem. Hodnota α_W je vypočtena podle EN ISO 11654 z třetinooktávových činitelů pohltivosti, které laboratoř naměřila metodou ASTM C423. Ta je metodě EN ISO 354 obdobná (dozvuková komora).

Výsledky platí pro zkoušený vzorek a uvedený způsob montáže. Originální protokol laboratoře je přiložen beze změn jako příloha.

Příloha: protokol Riverbank Acoustical Laboratories RAL™-A12-119 (4 stran, originál).

Zpracovala: VocalBoothToGo-EU s.r.o.

Datum: 28. 9. 2026

RIVERBANK ACOUSTICAL LABORATORIES

1512 S. BATAVIA AVENUE
GENEVA, ILLINOIS 60134

Alion Science and Technology

630/232-0104
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WALLACE CLEMENT SABINE

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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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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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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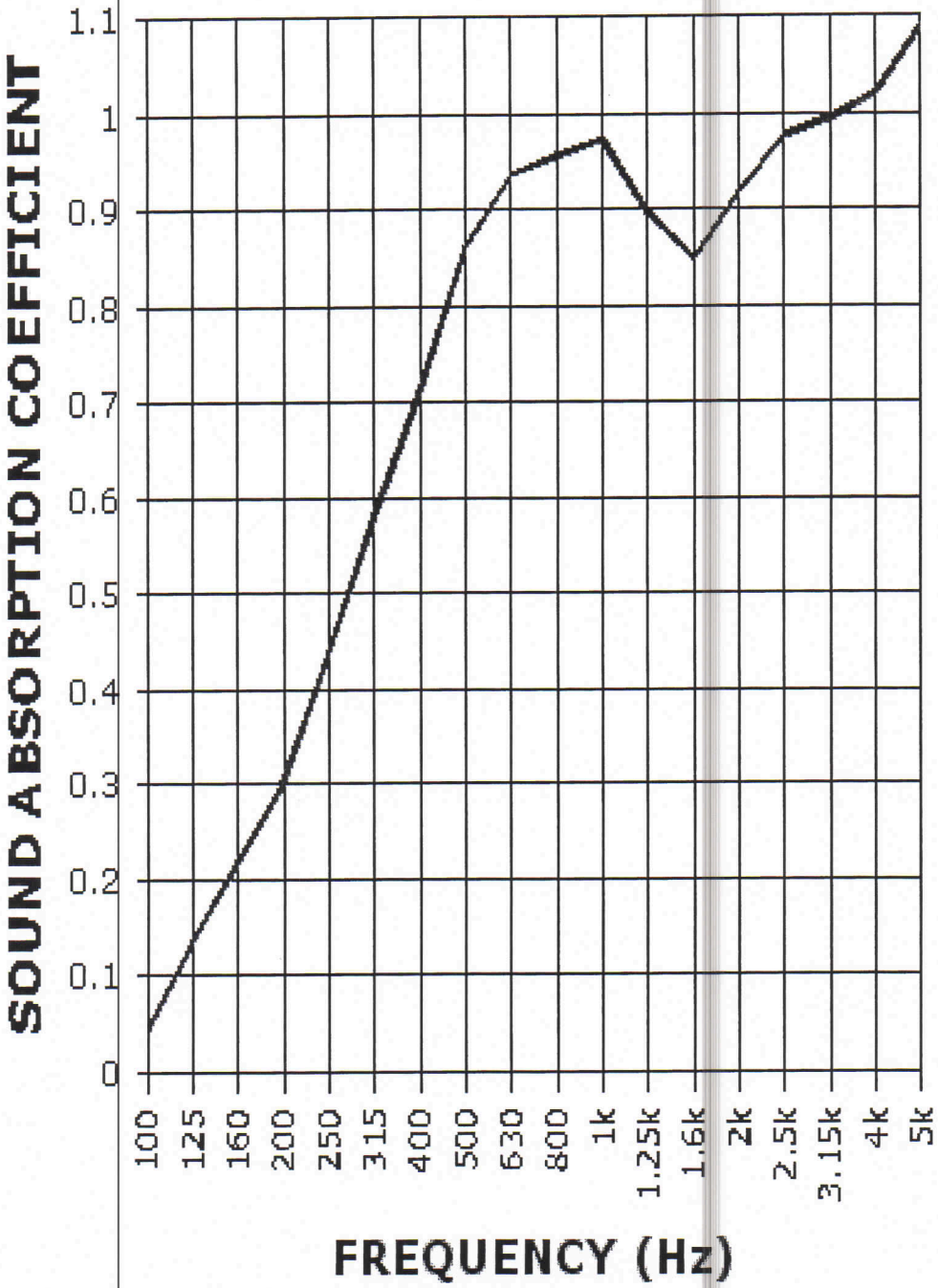
TEST REPORT

SOUND ABSORPTION REPORT
RAL-A12-119



SAA=0.78
NRC=0.80

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