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Simplified report

Measurement of sound absorption according to ISO 354

Test report no.	**H231016P1/3f_rev00**
Test specimen	Baffle ceiling, MUTE+ board S40-B Dimensions (LxWxH): 3000 mm x 40 mm x 200 mm Centre distance: 200 mm Total construction height h = 200 mm

α_w = 0,70 (H)
NRC = 0,75
SAA = 0,74

Test type	Sound absorption in a reverberation room according to ISO 354 Typ J
Client	Mr. Tobias Münich Lindner SE Bahnhofstraße 29 94424 Arnstorf
Date of test	23/10/2023
Date of report	30/01/2024
Place of test	Testing laboratory of GiB mbH Reverberation Room
Person in charge	Regina Portje, M.Eng., Test engineer
Scope	2 total pages, with 1 page cover 1 page curve sheet

Accredited testing laboratory according to ISO/IEC 17025

The accreditation is valid for all testing methods listed in the accreditation certificate

DAkkS Deutsche Akkreditierungsstelle D-PL-18520-01-00

Note: By publishing of a test report with a new revision number the former version of the test report is not valid any longer and has to be destroyed.

Sound absorption coefficient acc. to ISO 354

Measurement of sound absorption in reverberation rooms

Client: Lindner SE, Mr. Tobias Münich
Producer : Lindner SE
Date of test : 23.10.2023
Report No. : H231016P1/3f_rev00
Specimen : Baffle ceiling polyester, MUTE+ board S40-B
Mounting according to DIN EN ISO 354, Type J

Build-up of specimen :

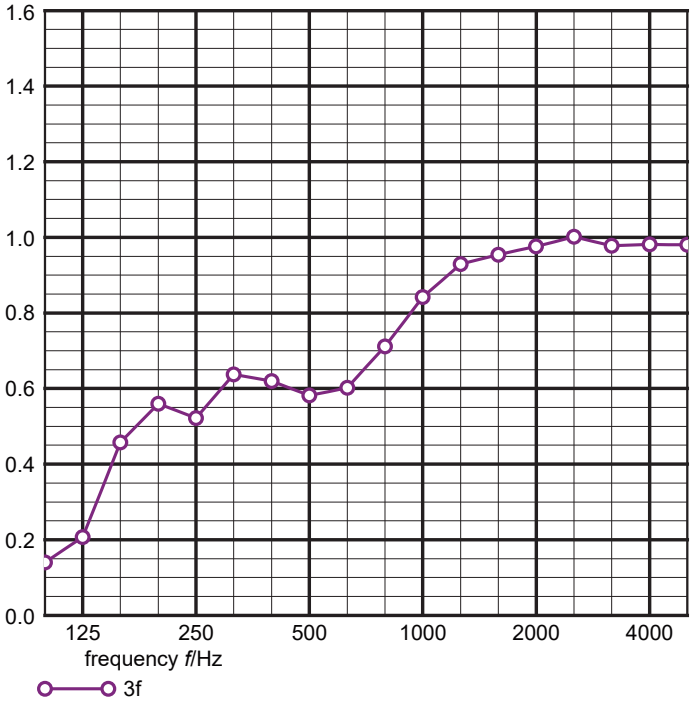
- Baffle ceiling polyester, Lindner MUTE+ board S40-B
- Baffle 18 Stk, h = 200 mm, w = 40 mm , l = 3000 mm
- Center distance a = 200 mm
- Total construction height 200 mm

Test area 3000 mm x 3600 mm, height of frame 200 mm made from 28 mm wooden multilayer board. Frame sealed to the floor.

Room: Hallraum GiB
Volume: 208.5 m³
Specimen size: 10.80 m²

	θ/°C	*φ*/%	*B*/kPa
Without specimen	20.5	56.7	98.1
With specimen	19.7	56.9	98.5

frequency *f*/Hz	α_s 1/3 octave	α_p 1/1 octave
100	0.14	
125	0.21	0.25
160	0.46	
200	0.56	
250	0.52	0.55
315	0.64	
400	0.62	
500	0.58	0.60
630	0.60	
800	0.71	
1000	0.84	0.85
1250	0.93	
1600	0.95	
2000	0.98	1.00
2500	1.00	
3150	0.98	
4000	0.98	1.00
5000	0.98	



α_s: Sound absorption coefficient acc. to ISO 354
α_p: Practical sound absorption coefficient acc. to ISO 11654

Rating acc. to ISO 11654:
Weighted sound absorption coefficient
α_w = 0.70 (*H*)
Sound absorption class: C

Rating acc. to ASTM C423:
Noise Reduction Coefficient *NRC* = 0.75
Sound absorption average *SAA* = 0.74

Person in charge: Regina Portje
Laboratory: GiB mbH
Date: 2024-01-30