

Sound absorption coefficient ISO 354

Measurement of sound absorption in reverberation rooms

Client: Silent Gliss Fabrics & Components GmbH
Rheinauenstraße 8, D-79415 Bad Bellingen

Test specimen: Fabric type "Alutex" of the company Silent Gliss Fabrics & Components GmbH
Mounting type G-200 according to ISO 354, Müller BBM sample no.: 7284

Test object:

- thickness $t = 0.42$ mm
- specific airflow resistance acc. to DIN EN 29 053: $R_S = 779$ Pa s / m
- area specific mass approx. $m'' = 232$ g/m²
- test surface width x height = 3.50 m x 3.00 m

Test arrangement:

- mounting type G-200 acc. to DIN EN ISO 354, section 6.2.1
- 20 mm overlap between the webs
- two webs with the dimensions length x width = 3.00 m x 2.00 m und 3.00 m x 1.52 m
- webs hanging flat
- 200 mm distance between the webs and the wall of the reverberation room
- test set-up without enclosing frame

Room: E

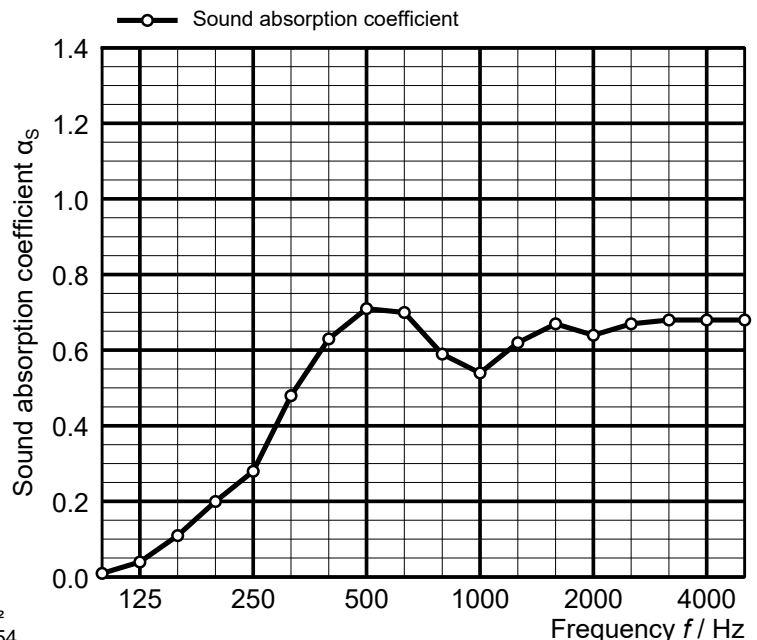
Volume: 199.66 m³

Size: 10.50 m²

Date of test: 2010-01-26

	θ [°C]	r. h. [%]	B [kPa]
without specimen	19.4	32.5	96.7
with specimen	19.5	32.6	96.7

Frequency [Hz]	α_s 1/3 octave	α_p octave
100	0.01	
125	0.04	0.05
160	0.11	
200	0.20	
250	0.28	0.30
315	0.48	
400	0.63	
500	0.71	0.70
630	0.70	
800	0.59	
1000	0.54	0.60
1250	0.62	
1600	0.67	
2000	0.64	0.65
2500	0.67	
3150	0.68	
4000	0.68	0.70
5000	0.68	



◦ Equivalent sound absorption area less than 1.0 m²
 α_s Sound absorption coefficient according to ISO 354
 α_p Practical sound absorption coefficient according to ISO 11654

Rating according to ISO 11654: Weighted sound absorption coefficient $\alpha_w = 0.60$ Sound absorption class: C	Rating according to ASTM C423: Noise Reduction Coefficient NRC = 0.55 Sound Absorption Average SAA = 0.56
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MÜLLER-BBM

Planegg, 2021-03-05

No. of test report M41 661/15

Appendix A

Page 1

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