

# 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 for absorber curtains, company Silent Gliss type Jumbotex  
100 mm wall distance, arranged hanging flat

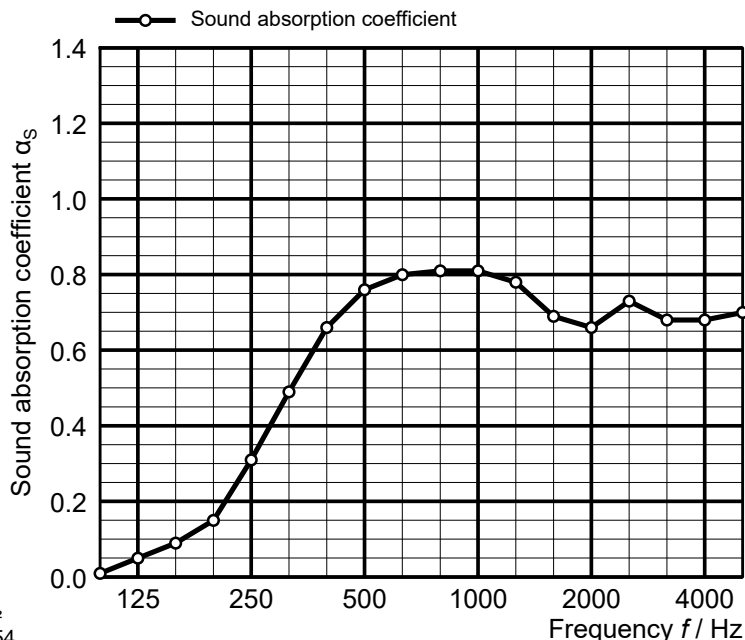
- Fabric:**
- fabric for variable absorber curtains
  - manufacturer Silent Gliss
  - type Jumbotex
  - area-specific mass  $m'' = 450 \text{ g/m}^2$
  - no preferred side shown
  - airflow resistance acc. to DIN EN 29 053:  $R_S = 1761 \text{ Pa s / m}$

- Test arrangement:**
- mounting type G-100 acc.to ISO 354
  - 100 mm clear distance to the wall of the reverberation room
  - assembly of one cloth, length x width = 3,100 mm x 3,500 mm
  - test surface width x height = 3.500 mm x 3.040 mm
  - freely suspended, not folded
  - test set-up without enclosing frame

Room: E  
Volume: 199.60 m<sup>3</sup>  
Size: 10.64 m<sup>2</sup>  
Date of test: 2008-01-17

	$\theta$ [°C]	r. h. [%]	B [kPa]
without specimen	19.9	31.7	95.2
with specimen	20.1	32.7	95.2

Frequency [Hz]	$\alpha_s$ 1/3 octave	$\alpha_p$ octave
100	0.01	
125	0.05	0.05
160	0.09	
200	0.15	
250	0.31	0.30
315	0.49	
400	0.66	
500	0.76	0.75
630	0.80	
800	0.81	
1000	0.81	0.80
1250	0.78	
1600	0.69	
2000	0.66	0.70
2500	0.73	
3150	0.68	
4000	0.68	0.70
5000	0.70	



◦ Equivalent sound absorption area less than 1.0 m<sup>2</sup>  
 $\alpha_s$  Sound absorption coefficient according to ISO 354  
 $\alpha_p$  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

**MÜLLER-BBM**

Planegg, 2021-03-05

No. of test report M56 910/3

Appendix A

Page 1