

Sound Absorption Coefficient ISO 354

Measurement of absorption in reverberation rooms

Client kinnasand / kvadrat
Test Specimen Curtains Flat

Mounting type G-100

One layer of textile
 Textile: Artic from kinnasand / kvadrat

Test Build-Up (from top to bottom):

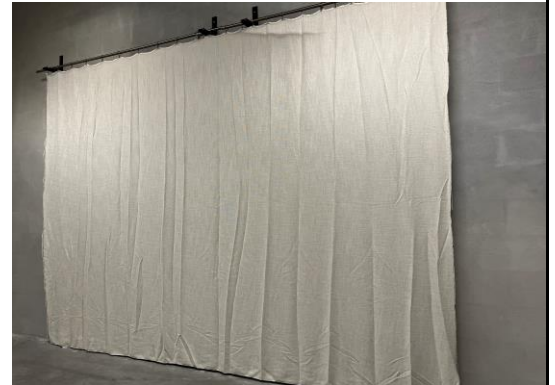
1.26 mm Front textile
 100 mm Air gap
 Reflective wall

Mounting

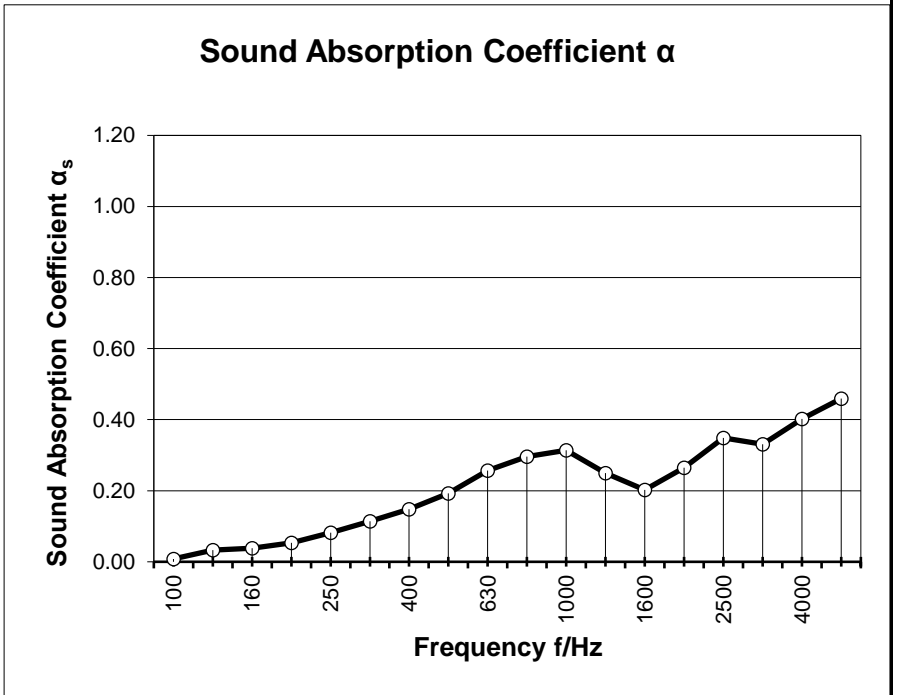
100mm distance to the wall

Flat curtains 1 element 4000x3000mm
 Total dimensions of the test object
 L x H = 4000mm x 3000mm

Room: Reverberation Room
 Volume: 156 m³
 Size: 12.00 m²
 Date of test 08/02/2024



Frequency [Hz]	α_s 1/3 octave	α_p octave
100	0.01	
125	0.03	0.05
160	0.04	
200	0.05	
250	0.08	0.10
315	0.11	
400	0.15	
500	0.19	0.20
630	0.26	
800	0.30	
1000	0.31	0.30
1260	0.25	
1600	0.20	
2000	0.26	0.25
2500	0.35	
3160	0.33	
4000	0.40	0.40
5000	0.46	



α_s Sound absorption coefficient to ISO 354
 α_p Practical sound absorption coefficient to ISO 11654

NRC:	0.20
SAA:	0.21

Rating according to ISO 11654:

Weighted Sound Absorption Coefficient $\alpha_w = 0.25$ (H)

Sound absorption class: E

Sound Absorption Coefficient ISO 354

Measurement of absorption in reverberation rooms

Client Kinnasand / kvadrat
Test Specimen Curtains Folded 100%

Mounting type G-100

One layer of textile

Textile: Artic from Kinnasand

Test Build-Up (from top to bottom):

1.26 mm Front textile
 150 mm Air gap
 Reflective wall

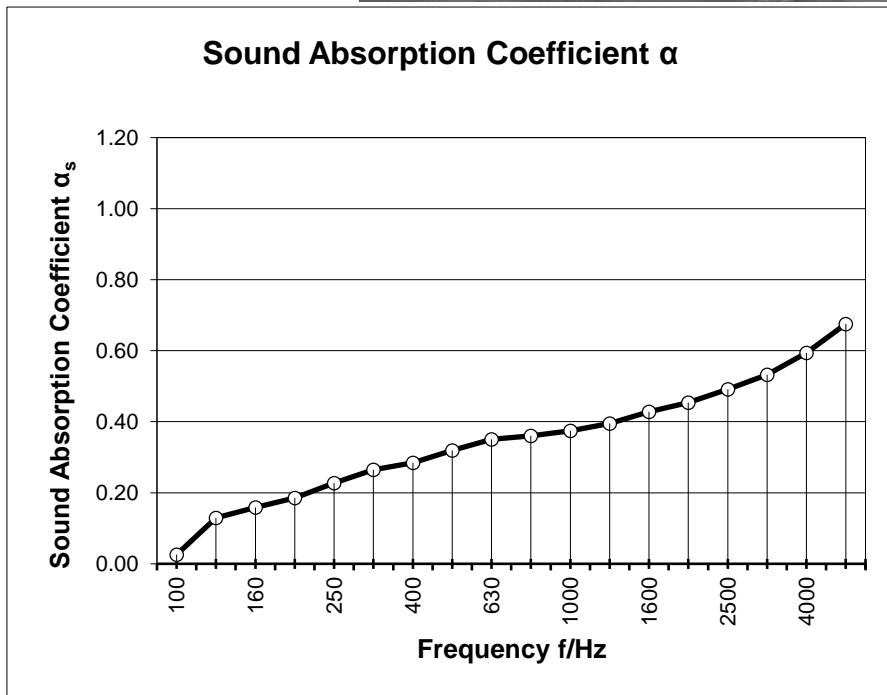
Mounting

100mm distance to the wall
 1 layer of curtains, 2 elements 4000x3000mm with approx. 20mm overlap, 100% folded, 200% textile length
 Total dimensions of the test object
 L x H = 3990mm x 3000mm

Room: Reverberation Room
 Volume: 156 m³
 Size: 11.97 m²
 Date of test 08-02-24



Frequency [Hz]	α_s 1/3 octave	α_p octave
100	0.03	
125	0.13	0.10
160	0.16	
200	0.19	
250	0.23	0.25
315	0.26	
400	0.28	
500	0.32	0.30
630	0.35	
800	0.36	
1000	0.37	0.40
1260	0.40	
1600	0.43	
2000	0.45	0.45
2500	0.49	
3160	0.53	
4000	0.59	0.60
5000	0.68	



α_s Sound absorption coefficient to ISO 354
 α_p Practical sound absorption coefficient to ISO 11654

NRC:	0.35
SAA:	0.34

Rating according to ISO 11654:

Weighted Sound Absorption Coefficient $\alpha_w = 0.4$ (H)

Sound absorption class:D

Sound Absorption Coefficient ISO 354

Measurement of absorption in reverberation rooms

Client kinnasand / kvadrat
Test Specimen Curtains Flat

Mounting type G-150

One layer of textile
 Textile: Artic from kinnasand / kvadrat

Test Build-Up (from top to bottom):

1.26 mm Front textile
 150 mm Air gap
 Reflective wall

Mounting

150mm distance to the wall

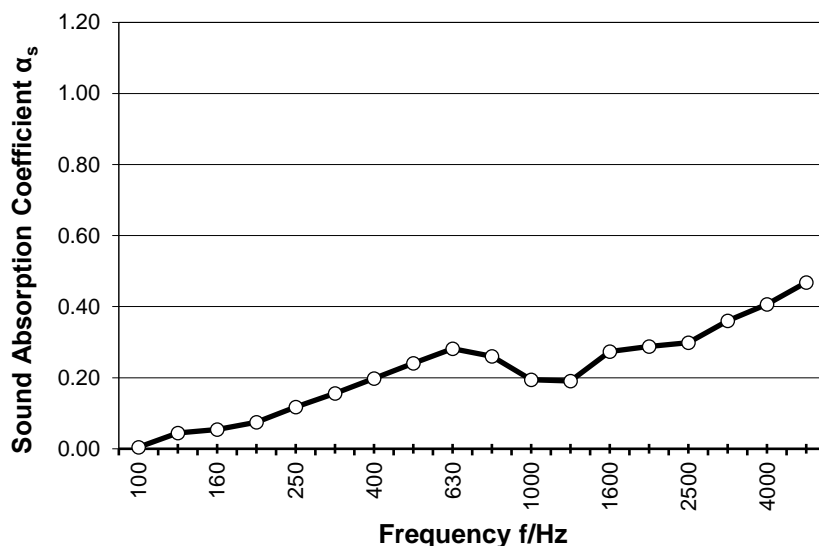
Flat curtains 1 element 4000x3000mm
 Total dimensions of the test object
 L x H = 4000mm x 3000mm

Room: Reverberation Room
 Volume: 156 m³
 Size: 12.00 m²
 Date of test 08/02/2024



Frequency [Hz]	α_s 1/3 octave	α_p octave
100	0.00	
125	0.04	0.05
160	0.05	
200	0.08	
250	0.12	0.10
315	0.16	
400	0.20	
500	0.24	0.25
630	0.28	
800	0.26	
1000	0.19	0.20
1260	0.19	
1600	0.27	
2000	0.29	0.30
2500	0.30	
3160	0.36	
4000	0.41	0.40
5000	0.47	

Sound Absorption Coefficient α



α_s Sound absorption coefficient to ISO 354
 α_p Practical sound absorption coefficient to ISO 11654

NRC:	0.20
SAA:	0.21

Rating according to ISO 11654:

Weighted Sound Absorption Coefficient $\alpha_w = 0.25$ (H)

Sound absorption class: E

Sound Absorption Coefficient ISO 354

Measurement of absorption in reverberation rooms

Client Kinnasand / kvadrat
Test Specimen Curtains Folded 100%

Mounting type G-150

One layer of textile

Textile: Artic from Kinnasand

Test Build-Up (from top to bottom):

1.26 mm Front textile
 150 mm Air gap
 Reflective wall

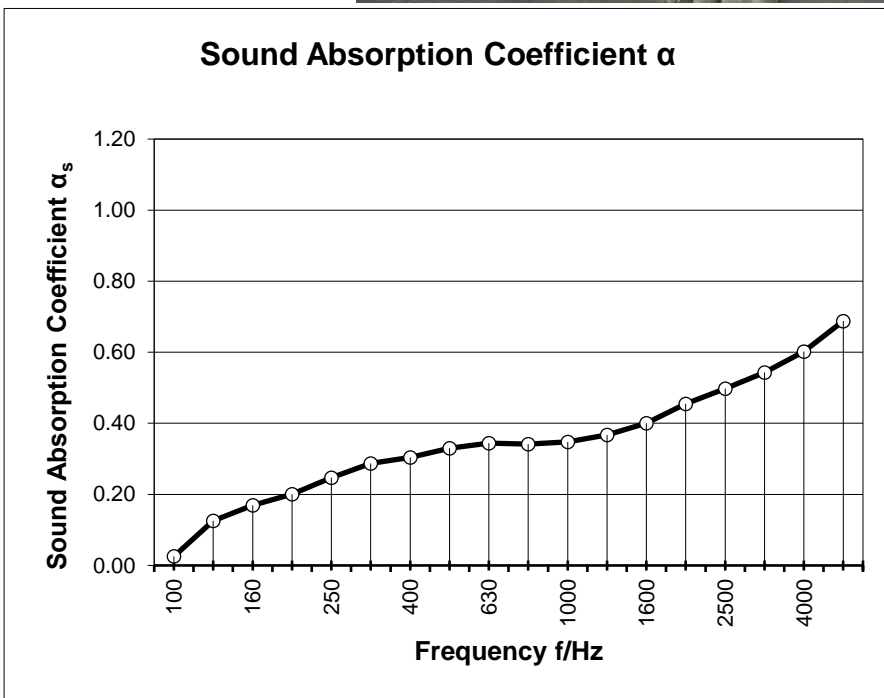
Mounting

150mm distance to the wall
 1 layer of curtains, 2 elements 4000x3000mm with approx. 20mm overlap, 100% folded, 200% textile length
 Total dimensions of the test object
 L x H = 3990mm x 3000mm



Room: Reverberation Room
 Volume: 156 m³
 Size: 11.97 m²
 Date of test 08/02/2024

Frequency [Hz]	α_s 1/3 octave	α_p octave
100	0.03	
125	0.13	0.10
160	0.17	
200	0.20	
250	0.25	0.25
315	0.29	
400	0.30	
500	0.33	0.35
630	0.34	
800	0.34	
1000	0.35	0.35
1260	0.37	
1600	0.40	
2000	0.45	0.45
2500	0.50	
3160	0.54	
4000	0.60	0.60
5000	0.69	



α_s Sound absorption coefficient to ISO 354
 α_p Practical sound absorption coefficient to ISO 11654

NRC:	0.35
SAA:	0.34

Rating according to ISO 11654:

Weighted Sound Absorption Coefficient $\alpha_w = 0.4$ (H)

Sound absorption class:D