

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: Tweex from kinnasand / kvadrat

Test Build-Up (from top to bottom):

0.8 mm Front textile
 100 mm Air gap
 Reflective wall

Mounting

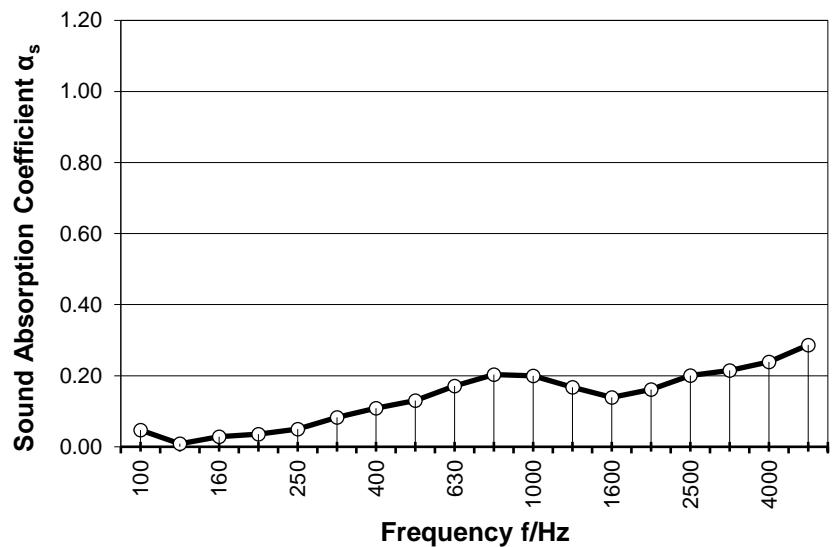
100mm distance to the wall
 Flat curtains 2 elements 2050x3010mm with approx. 20mm overlap
 Total dimensions of the test object
 L x H = 4080mm x 3010mm

Room: Reverberation Room
 Volume: 156 m³
 Size: 12.28 m²
 Date of test 16/11/2023



Frequency [Hz]	α_s 1/3 octave	α_p octave
100	0.05	
125	0.01	0.05
160	0.03	
200	0.04	
250	0.05	0.05
315	0.08	
400	0.11	
500	0.13	0.15
630	0.17	
800	0.20	
1000	0.20	0.20
1260	0.17	
1600	0.14	
2000	0.16	0.15
2500	0.20	
3160	0.21	
4000	0.24	0.25
5000	0.29	

Sound Absorption Coefficient α



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

NRC:	0.15
SAA:	0.14

Rating according to ISO 11654:

Weighted Sound Absorption Coefficient $\alpha_w = 0.2$

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: Tweex from Kinnasand

Test Build-Up (from top to bottom):

0.8 mm Front textile
 100 mm Air gap
 Reflective wall

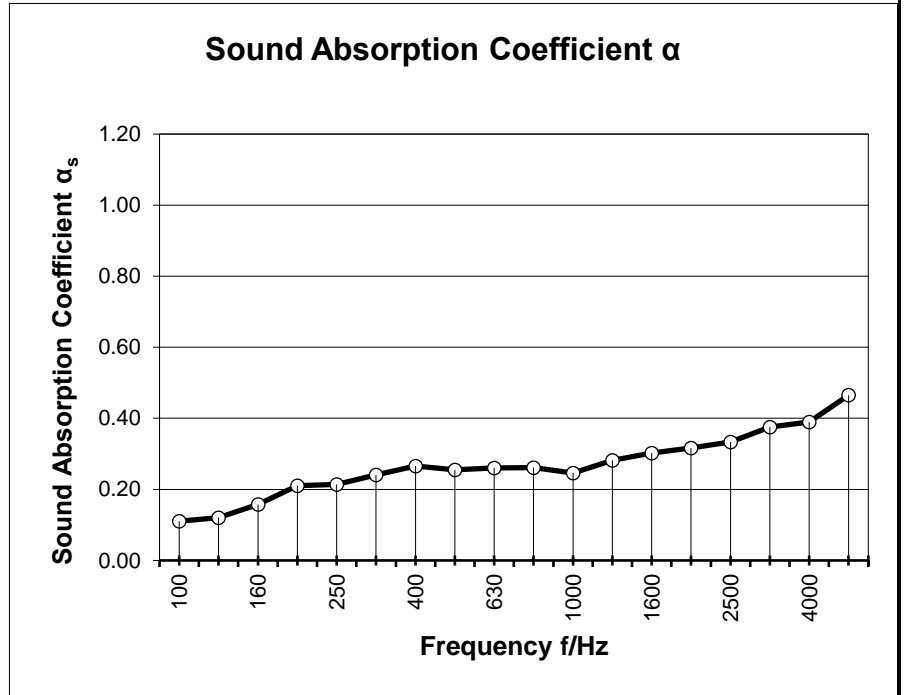
Mounting

100mm distance to the wall
 1 layer of curtains, 4 elements 2050x3010mm with approx. 20mm overlap, 100% folded, 200% textile length
 Total dimensions of the test object
 L x H = 4070mm x 3010mm



Room: Reverberation Room
 Volume: 156 m³
 Size: 12.25 m²
 Date of test 16/11/2023

Frequency [Hz]	α_s 1/3 octave	α_p octave
100	0.11	
125	0.12	0.15
160	0.16	
200	0.21	
250	0.21	0.20
315	0.24	
400	0.27	
500	0.25	0.25
630	0.26	
800	0.26	
1000	0.25	0.25
1260	0.28	
1600	0.30	
2000	0.32	0.30
2500	0.33	
3160	0.38	
4000	0.39	0.40
5000	0.47	



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

NRC:	0.25
SAA:	0.27

Rating according to ISO 11654:

Weighted Sound Absorption Coefficient $\alpha_w = 0.3$

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: Tweex from kinnasand / kvadrat

Test Build-Up (from top to bottom):

0.8 mm Front textile
 150 mm Air gap
 Reflective wall

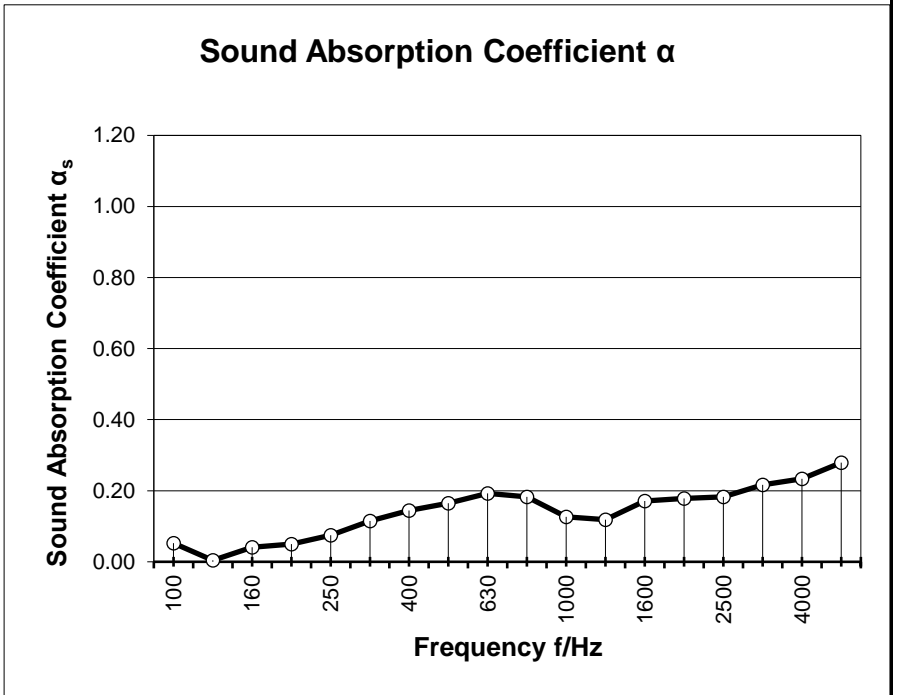
Mounting

150mm distance to the wall
 Flat curtains 2 elements 2050x3010mm with approx. 20mm overlap
 Total dimensions of the test object
 L x H = 4080mm x 3010mm

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 Volume: 156 m³
 Size: 12.28 m²
 Date of test 16/11/2023



Frequency [Hz]	α_s 1/3 octave	α_p octave
100	0.05	
125	0.00	0.05
160	0.04	
200	0.05	
250	0.08	0.10
315	0.11	
400	0.14	
500	0.17	0.15
630	0.19	
800	0.18	
1000	0.13	0.15
1260	0.12	
1600	0.17	
2000	0.18	0.20
2500	0.18	
3160	0.22	
4000	0.23	0.25
5000	0.28	



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

NRC:	0.15
SAA:	0.14

Rating according to ISO 11654:

Weighted Sound Absorption Coefficient $\alpha_w = 0.2$

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: Tweex from Kinnasand

Test Build-Up (from top to bottom):

0.8 mm Front textile
 150 mm Air gap
 Reflective wall

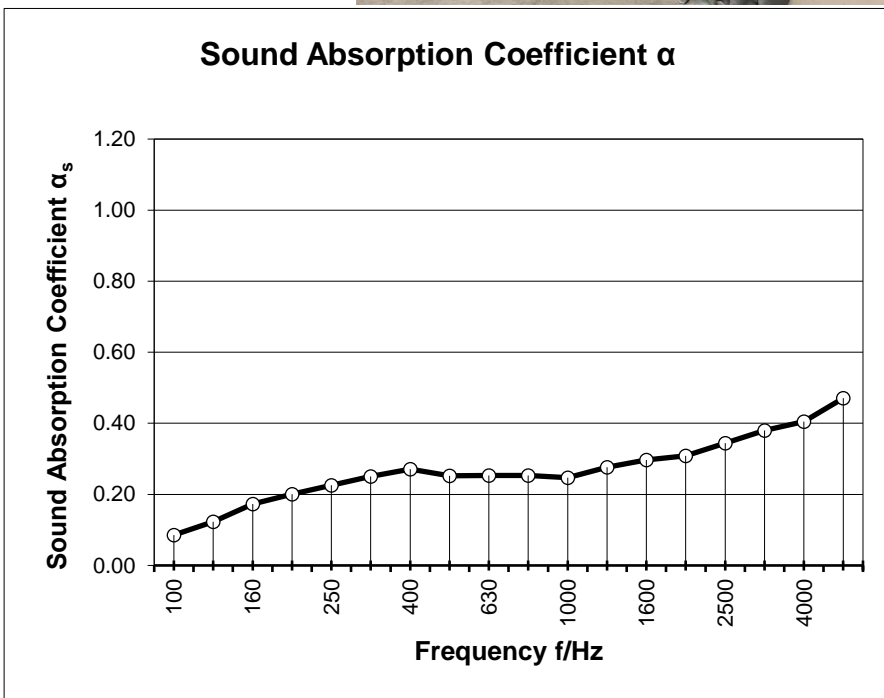
Mounting

150mm distance to the wall
 1 layer of curtains, 4 elements 2050x3010mm with approx. 20mm overlap, 100% folded, 200% textile length
 Total dimensions of the test object
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Room: Reverberation Room
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100	0.09	
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315	0.25	
400	0.27	
500	0.25	0.25
630	0.25	
800	0.25	
1000	0.25	0.25
1260	0.28	
1600	0.30	
2000	0.31	0.30
2500	0.34	
3160	0.38	
4000	0.40	0.40
5000	0.47	



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

NRC:	0.25
SAA:	0.26

Rating according to ISO 11654:

Weighted Sound Absorption Coefficient $\alpha_w = 0.3$

Sound absorption class:D