

Sound Absorption Coefficient ISO 354

Measurement of absorption in reverberation rooms

Client Kinnasand / Kvadrat

Test Specimen Curtains
Flat

Wall mounting - 100mm distance

One layer of textile

Textile: Snoozer from Kinnasand colour: 14
61% polyester 27% cotton 12% linen

Test Build-Up (from top to bottom):

1 mm Front textile
100 mm Air gap
Reflective wall

Mounting

100mm distance to the wall

Flat curtains 3 element 1550x3000mm with approx. 20mm overlap

Total dimensions of the test object

L x H = 4610mm x 3000mm

Room: Reverberation Room

Volume: 156 m³

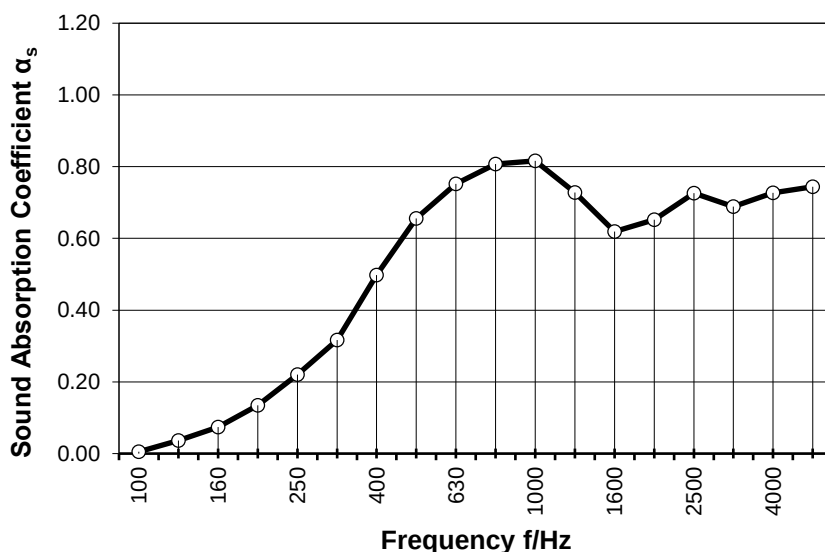
Size: 13.83 m²

Date of test 24-03-21



Frequency [Hz]	α_s 1/3 octave	α_p octave
100	0.01	0.05
125	0.04	
160	0.07	
200	0.13	0.20
250	0.22	
315	0.32	
400	0.50	0.65
500	0.66	
630	0.75	
800	0.81	0.80
1000	0.82	
1260	0.73	
1600	0.62	0.65
2000	0.65	
2500	0.73	
3160	0.69	0.70
4000	0.73	
5000	0.74	

Sound Absorption Coefficient α



α_s Sound absorption coefficient to ISO 354

α_p Practical sound absorption coefficient to ISO 11654

NRC: 0.60
SAA: 0.58

Rating according to ISO 11654:

Weighted Sound Absorption Coefficient $\alpha_w = 0.5$ (MH)

Sound absorption class:D

Sound Absorption Coefficient ISO 354

Measurement of absorption in reverberation rooms

Client Kinnasand / Kvadrat

Test Specimen Curtains
Folded 100%

Wall mounting with 100mm distance
One layer of textile

Textile: Snoozer from Kinnasand colour: 14
61% polyester 27% cotton 12% linen

Test Build-Up (from top to bottom):

1 mm Front textile
100 mm Air gap
Reflective wall

Mounting

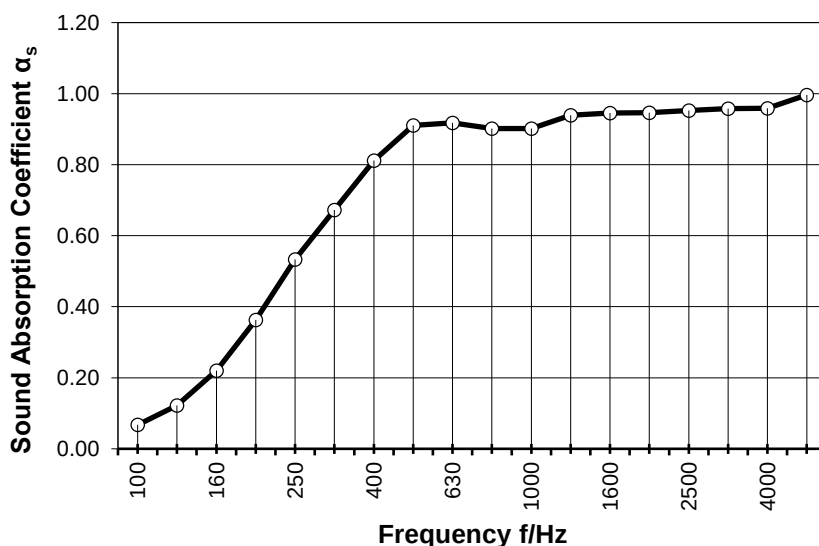
100mm distance to the wall
1 layer of curtains, 5 elements 1550x3000mm with approx.
20mm overlap, 100% folded, 200% textile length
Total dimensions of the test object
L x H = 3800mm x 3000mm

Room: Reverberation Room
Volume: 156 m³
Size: 11.40 m²
Date of test 24-03-21



Frequency [Hz]	α_s 1/3 octave	α_p octave
100	0.07	0.15
125	0.12	
160	0.22	
200	0.36	0.50
250	0.53	
315	0.67	
400	0.81	0.90
500	0.91	
630	0.92	
800	0.90	0.90
1000	0.90	
1260	0.94	
1600	0.95	0.95
2000	0.95	
2500	0.95	
3160	0.96	0.95
4000	0.96	
5000	1.00	

Sound Absorption Coefficient α



α_s Sound absorption coefficient to ISO 354

α_p Practical sound absorption coefficient to ISO 11654

NRC:	0.80
SAA:	0.82

Rating according to ISO 11654:

Weighted Sound Absorption Coefficient $\alpha_w = 0.8$ (H)

Sound absorption class:B

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: Snoozer from Kinnasand / Kvadrat

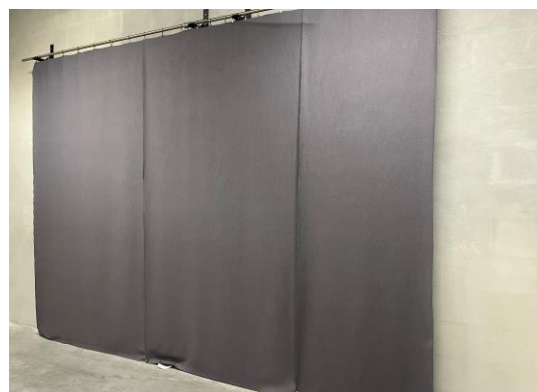
Test Build-Up (from top to bottom):

0.86 mm Front textile
150 mm Air gap
Reflective wall

Mounting

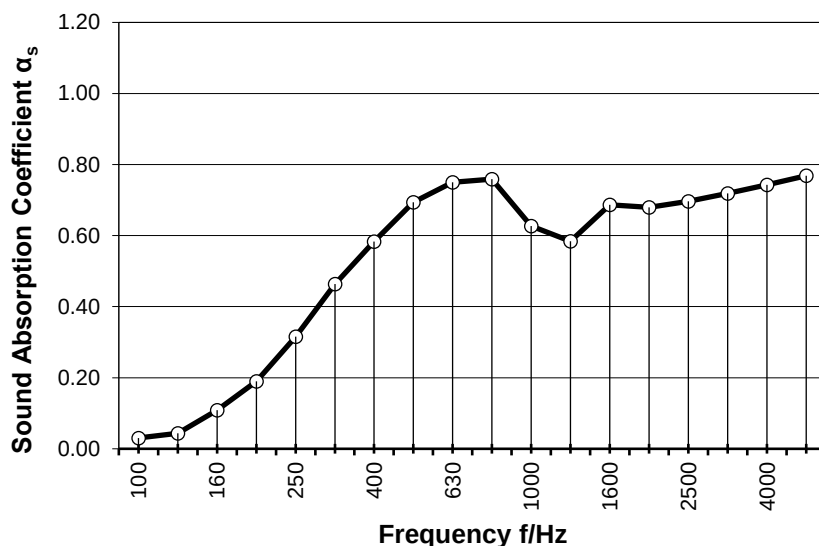
150mm distance to the wall
Flat curtains 2 elements 1550x3010mm, 1 element
920x3010 with approx. 20mm overlap
Total dimensions of the test object
L x H = 3980mm x 3010mm

Room: Reverberation Room
Volume: 156 m³
Size: 11.98 m²
Date of test 21/02/2024



Frequency [Hz]	α_s 1/3 octave	α_p octave
100	0.03	0.05
125	0.04	
160	0.11	
200	0.19	0.30
250	0.32	
315	0.46	
400	0.58	0.70
500	0.69	
630	0.75	
800	0.76	0.65
1000	0.63	
1260	0.58	
1600	0.69	0.70
2000	0.68	
2500	0.70	
3160	0.72	0.75
4000	0.74	
5000	0.77	

Sound Absorption Coefficient α



α_s Sound absorption coefficient to ISO 354

α_p Practical sound absorption coefficient to ISO 11654

NRC:	0.60
SAA:	0.59

Rating according to ISO 11654:

Weighted Sound Absorption Coefficient $\alpha_w = 0.6$ (H)

Sound absorption class: C

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: Snoozer from Kinnasand

Test Build-Up (from top to bottom):

0.86 mm Front textile
150 mm Air gap
Reflective wall

Mounting

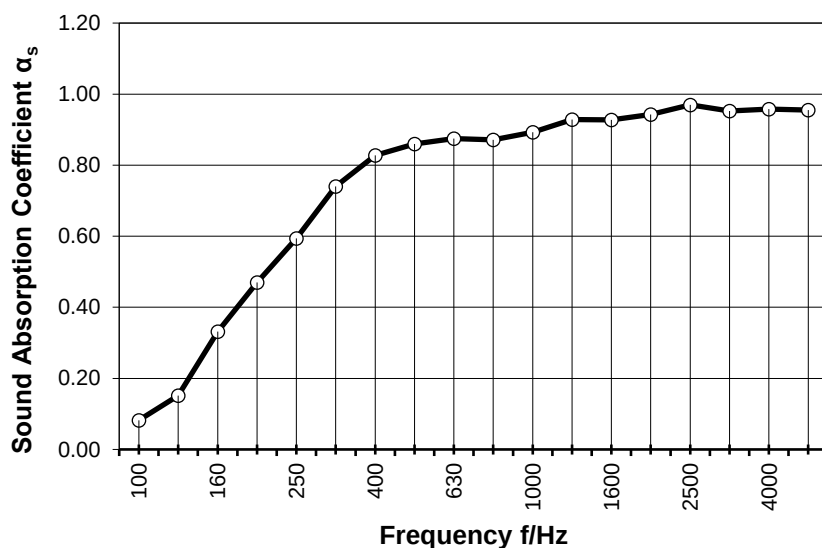
150mm distance to the wall
1 layer of curtains, 5 elements 1550x3010mm with approx.
20mm overlap, 100% folded, 200% textile length
Total dimensions of the test object
L x H = 3835mm x 3010mm



Room: Reverberation Room
Volume: 156 m³
Size: 11.54 m²
Date of test 21/02/2024

Frequency [Hz]	α_s 1/3 octave	α_p octave
100	0.08	0.20
125	0.15	
160	0.33	
200	0.47	0.60
250	0.59	
315	0.74	
400	0.83	0.85
500	0.86	
630	0.87	
800	0.87	0.90
1000	0.89	
1260	0.93	
1600	0.93	0.95
2000	0.94	
2500	0.97	
3160	0.95	0.95
4000	0.96	
5000	0.96	

Sound Absorption Coefficient α



α_s Sound absorption coefficient to ISO 354

α_p Practical sound absorption coefficient to ISO 11654

NRC: 0.80
SAA: 0.82

Rating according to ISO 11654:

Weighted Sound Absorption Coefficient $\alpha_w = 0.85$

Sound absorption class: B