

Sound Absorption Coefficient ISO 354

Measurement of absorption in reverberation rooms

Client Kinnasand
Test Specimen Curtains
 Flat

Wall mounting - 100mm distance
 One layer of textile

Textile: Journey from Kinnasand
 100% Polyester CS

colour: 16

Test Build-Up (from top to bottom):

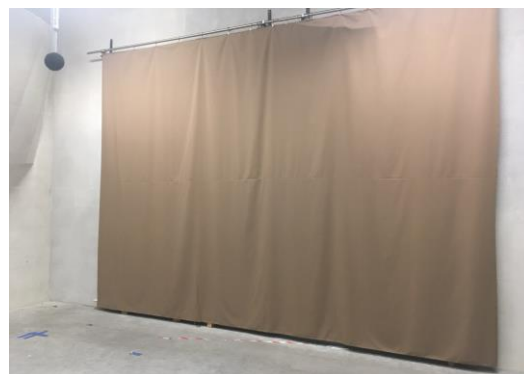
1 mm Front textile
 100 mm Air gap
 Reflective wall

Mounting

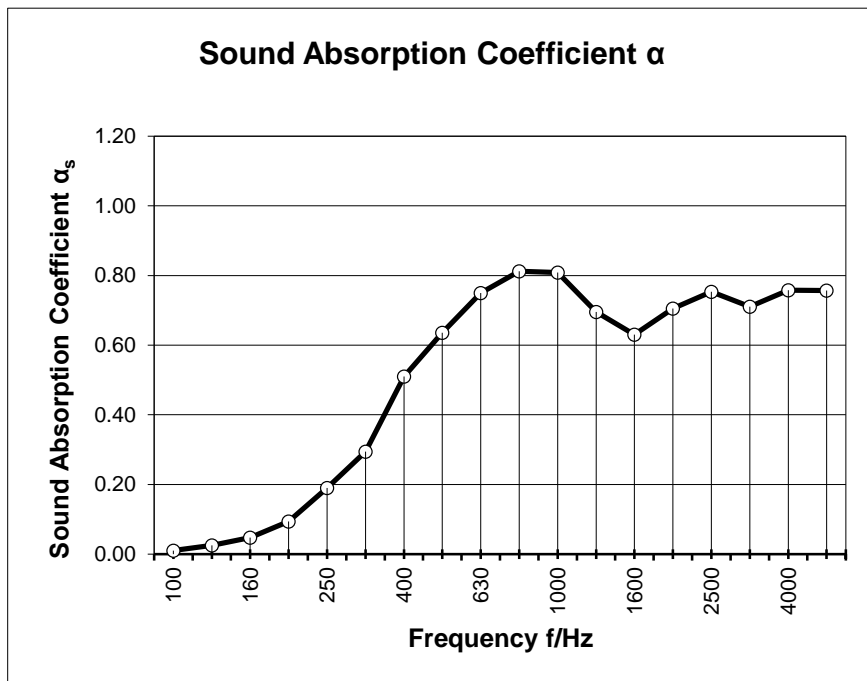
100mm distance to the wall

Flat curtains 1 element 4000x2980mm
 Total dimensions of the test object
 L x H = 4000mm x 2980mm

Room: Reverberation Room
 Volume: 156 m³
 Size: 11.92 m²
 Date of test 25-11-19



Frequency [Hz]	α_s 1/3 octave	α_p octave
100	0.01	0.05
125	0.02	
160	0.05	
200	0.09	0.20
250	0.19	
315	0.29	
400	0.51	0.65
500	0.64	
630	0.75	
800	0.81	0.75
1000	0.81	
1260	0.70	
1600	0.63	0.70
2000	0.71	
2500	0.75	
3160	0.71	0.75
4000	0.76	
5000	0.76	



α_s Sound absorption coefficient to ISO 354

α_p Practical sound absorption coefficient to ISO 11654

NRC: 0.55
SAA: 0.57

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
Test Specimen Curtains
 Folded 100%
Wall mounting with 100mm distance
 One layer of textile

Textile: Journey from Kinnasand
 100% Polyester CS

colour: 16

Test Build-Up (from top to bottom):

1 mm Front textile
 100 mm Air gap
 Reflective wall

Mounting

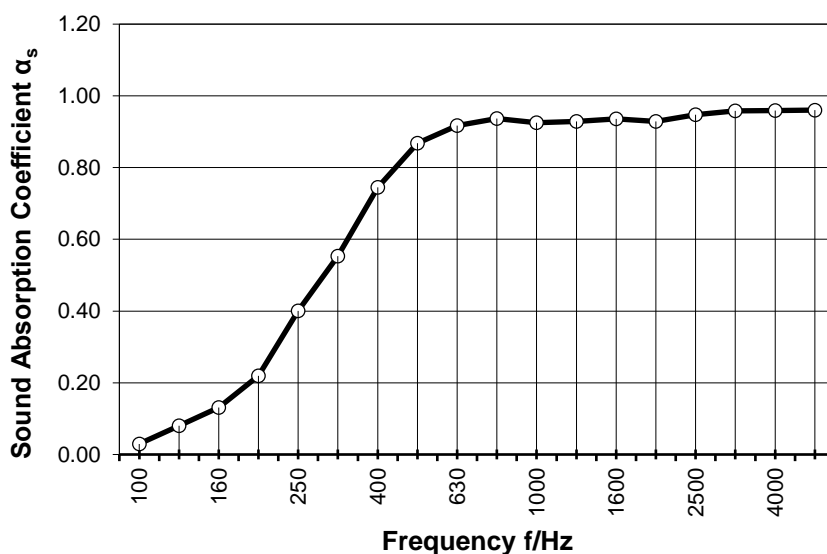
100mm distance to the wall
 1 layer of curtains, 2 elements 4000x3000mm with approx.
 20mm overlap, 100% folded, 200% textile length
 Total dimensions of the test object
 L x H = 3980mm x 2980mm

Room: Reverberation Room
 Volume: 156 m³
 Size: 11.86 m²
 Date of test 25-Nov-19



Frequency [Hz]	α_s 1/3 octave	α_p octave
100	0.03	0.10
125	0.08	
160	0.13	
200	0.22	0.40
250	0.40	
315	0.55	
400	0.74	
500	0.87	0.85
630	0.92	
800	0.94	
1000	0.92	0.95
1260	0.93	
1600	0.94	
2000	0.93	0.95
2500	0.95	
3160	0.96	
4000	0.96	0.95
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:	0.78

Rating according to ISO 11654:

Weighted Sound Absorption Coefficient $\alpha_w = 0.7$ (MHH)

Sound absorption class: C

kvadrat soft cells

Test conducted by Kvadrat SoftCells
 Poznańska 3, 62-023 Gądk

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: Journey from Kinnasand colour: 3
 100% Polyester FR

Test Build-Up (from top to bottom):

1 mm Front textile
 150 mm Air gap
 Reflective wall

Mounting

150mm distance to the wall

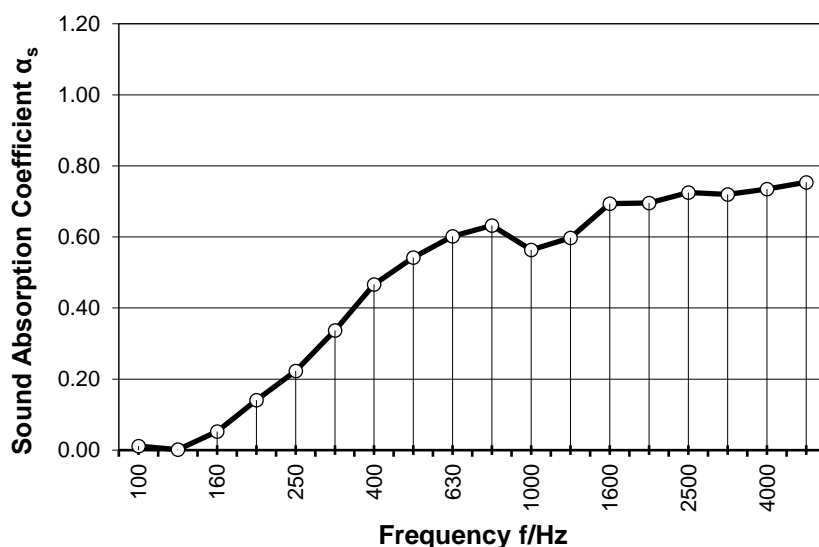
Flat curtains 1 element 4000x3000mm
 Total dimensions of the test object
 L x H = 4000mm x 3000mm

Room: Reverberation Room
 Volume: 156 m³
 Size: 12.00 m²
 Date of test 15/09/2023



Frequency [Hz]	α_s 1/3 octave	α_p octave
100	0.01	0.00
125	0.00	
160	0.05	
200	0.14	0.25
250	0.22	
315	0.34	
400	0.47	0.55
500	0.54	
630	0.60	
800	0.63	0.60
1000	0.56	
1260	0.60	
1600	0.69	0.70
2000	0.70	
2500	0.73	
3160	0.72	0.75
4000	0.74	
5000	0.75	

Sound Absorption Coefficient α



α_s Sound absorption coefficient to ISO 354

α_p Practical sound absorption coefficient to ISO 11654

NRC: 0.50
SAA: 0.52

Rating according to ISO 11654:

Weighted Sound Absorption Coefficient $\alpha_w = 0.55$ (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: Journey from Kinnasand colour: 3
 100% Trevira CS

Test Build-Up (from top to bottom):

1 mm Front textile
 150 mm Air gap
 Reflective wall

Mounting

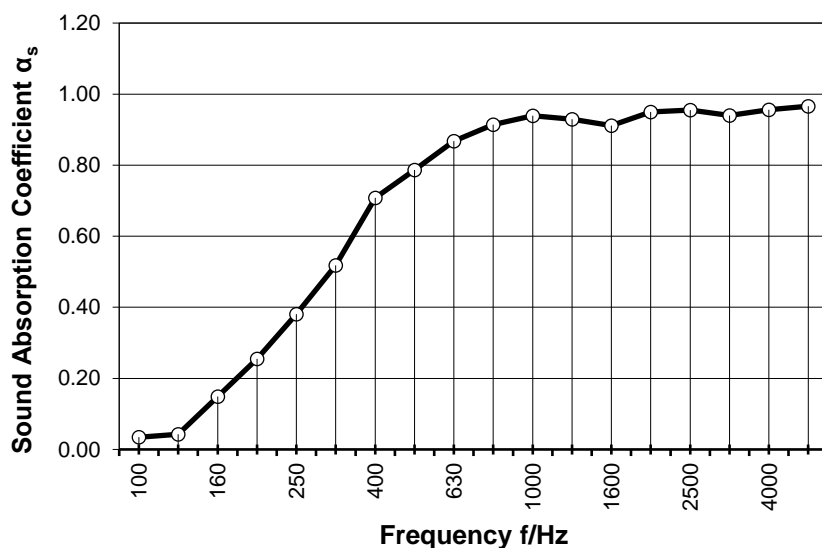
150mm distance to the wall
 1 layer of curtains, 2 elements 4000x3000mm with approx.
 20mm overlap, 100% folded, 200% textile length
 Total dimensions of the test object
 L x H = 3990mm x 3000mm

Room: Reverberation Room
 Volume: 156 m³
 Size: 11.97 m²
 Date of test 15/09/2023



Frequency [Hz]	α_s 1/3 octave	α_p octave
100	0.03	
125	0.04	0.10
160	0.15	
200	0.25	
250	0.38	0.40
315	0.52	
400	0.71	
500	0.79	0.80
630	0.87	
800	0.91	
1000	0.94	0.95
1260	0.93	
1600	0.91	
2000	0.95	0.95
2500	0.96	
3160	0.94	
4000	0.96	0.95
5000	0.97	

Sound Absorption Coefficient α



α_s Sound absorption coefficient to ISO 354

α_p Practical sound absorption coefficient to ISO 11654

NRC: 0.75
SAA: 0.76

Rating according to ISO 11654:

Weighted Sound Absorption Coefficient $\alpha_w = 0.7$ (MHH)

Sound absorption class:C