

Sound Absorption Coefficient ISO 354

Measurement of absorption in reverberation rooms

Client Sahco / Kvadrat
Test Specimen Curtains Folded 100%

Mounting type G-150

One layer of textile

Textile: Proof from Sahco
 100% Polyacrylic

Test Build-Up (from top to bottom):

1.68 mm Front textile
 150 mm Air gap
 Reflective wall

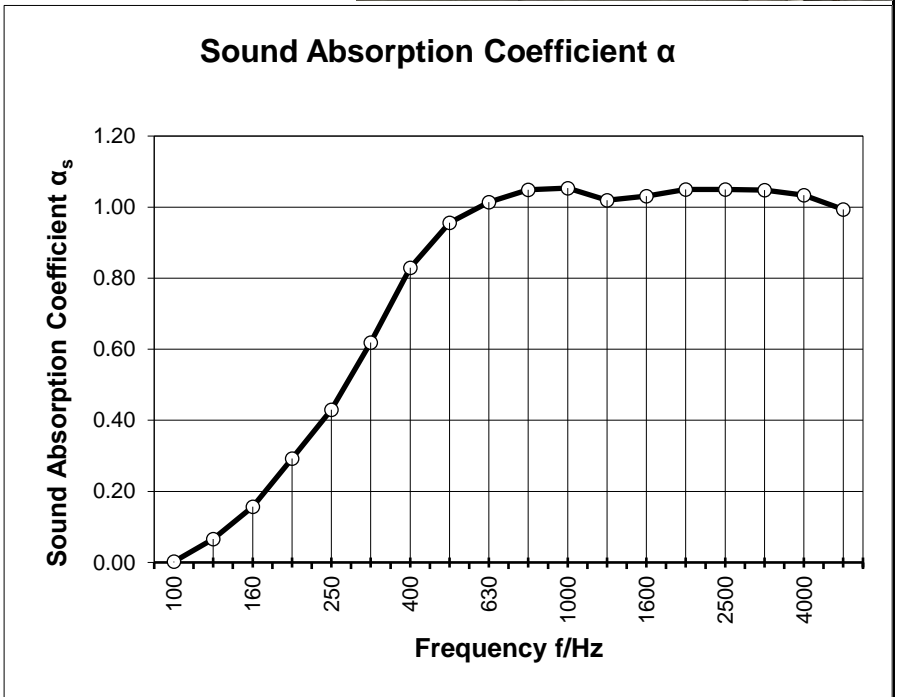
Mounting

150mm distance to the wall
 1 layer of curtains, 5 elements 1440x3010mm with approx. 20mm overlap, 100% folded, 200% textile length
 Total dimensions of the test object
 L x H = 3560mm x 3010mm

Room: Reverberation Room
 Volume: 156 m³
 Size: 10.72 m²
 Date of test 13/07/2022



Frequency [Hz]	α_s 1/3 octave	α_p octave
100	0.00	
125	0.07	0.10
160	0.16	
200	0.29	
250	0.43	0.45
315	0.62	
400	0.83	
500	0.96	0.95
630	1.01	
800	1.05	
1000	1.05	1.00
1260	1.02	
1600	1.03	
2000	1.05	1.00
2500	1.05	
3160	1.05	
4000	1.03	1.00
5000	0.99	



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

NRC:	0.85
SAA:	0.87

Rating according to ISO 11654:

Weighted Sound Absorption Coefficient $\alpha_w = 0.75$ (MHH)

Sound absorption class:C

Sound Absorption Coefficient ISO 354

Measurement of absorption in reverberation rooms

Client Sahco / Kvadrat
Test Specimen Curtains Folded 100%

Mounting type G-100

One layer of textile

Textile: Proof from Sahco
 100% Polyacrylic

Test Build-Up (from top to bottom):

1.68 mm Front textile
 100 mm Air gap
 Reflective wall

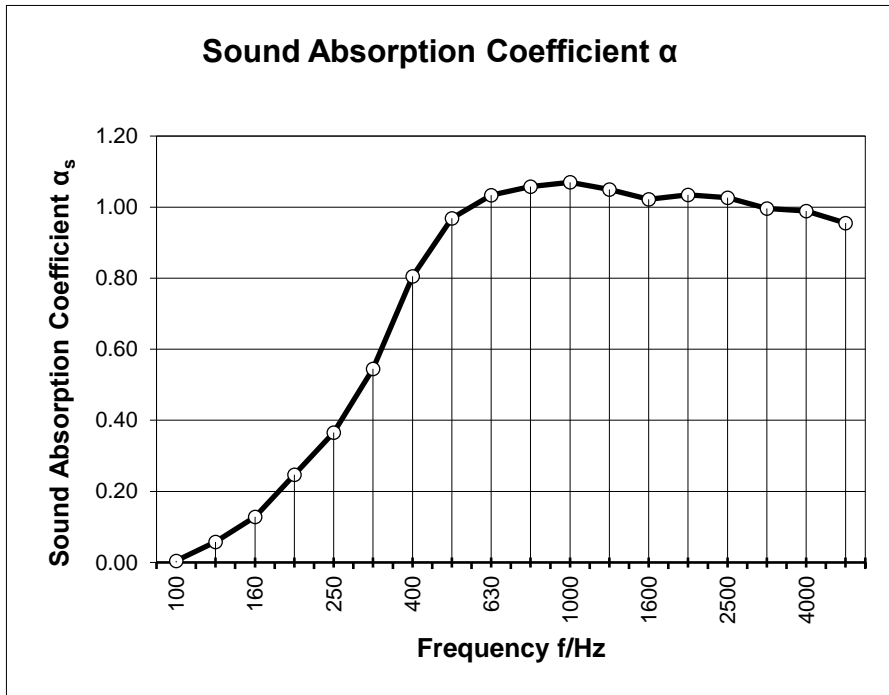
Mounting

100mm distance to the wall
 1 layer of curtains, 5 elements 1440x3010mm with approx. 20mm overlap, 100% folded, 200% textile length
 Total dimensions of the test object
 L x H = 3560mm x 3010mm

Room: Reverberation Room
 Volume: 156 m³
 Size: 10.72 m²
 Date of test 13/07/2022



Frequency [Hz]	α_s 1/3 octave	α_p octave
100	0.00	
125	0.06	0.05
160	0.13	
200	0.25	
250	0.37	0.40
315	0.55	
400	0.81	
500	0.97	0.95
630	1.03	
800	1.06	
1000	1.07	1.00
1260	1.05	
1600	1.02	
2000	1.03	1.00
2500	1.03	
3160	1.00	
4000	0.99	1.00
5000	0.95	



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

NRC:	0.85
SAA:	0.85

Rating according to ISO 11654:

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

Sound absorption class:C

Sound Absorption Coefficient ISO 354

Measurement of absorption in reverberation rooms

Client Sahco / Kvadrat
Test Specimen Curtains Flat

Mounting type G-150
 One layer of textile
 Textile: Proof from Sahco / Kvadrat
 100% polyacrylic

Test Build-Up (from top to bottom):
 1.68 mm Front textile
 150 mm Air gap
 Reflective wall

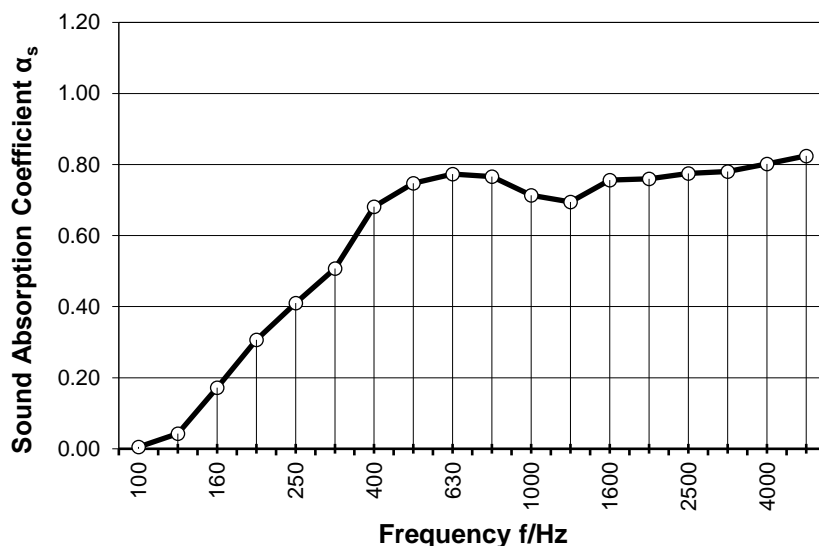
Mounting
 150mm distance to the wall
 Flat curtains 2 elements 1440x3010mm, 1 element 1130x3010
 Total dimensions of the test object
 L x H = 3970mm x 3010mm

Room: Reverberation Room
 Volume: 156 m³
 Size: 11.95 m²
 Date of test 13/07/2022



Frequency [Hz]	α_s 1/3 octave	α_p octave
100	0.01	
125	0.04	0.05
160	0.17	
200	0.31	
250	0.41	0.40
315	0.51	
400	0.68	
500	0.75	0.75
630	0.77	
800	0.77	
1000	0.71	0.70
1260	0.69	
1600	0.76	
2000	0.76	0.75
2500	0.77	
3160	0.78	
4000	0.80	0.80
5000	0.82	

Sound Absorption Coefficient α



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

NRC:	0.65
SAA:	0.66

Rating according to ISO 11654:

Weighted Sound Absorption Coefficient $\alpha_w = 0.7$

Sound absorption class: C

Sound Absorption Coefficient ISO 354

Measurement of absorption in reverberation rooms

Client Sahco / Kvadrat
Test Specimen Curtains Flat

Mounting type G-100

One layer of textile
 Textile: Proof from Sahco / Kvadrat
 100% Polyacrylic

Test Build-Up (from top to bottom):

1.68 mm Front textile
 100 mm Air gap
 Reflective wall

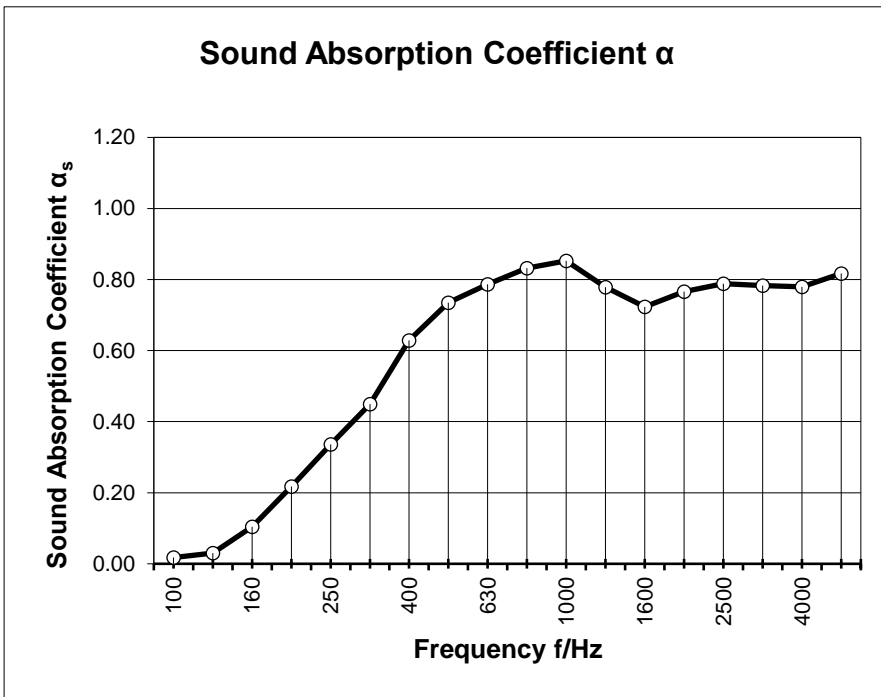
Mounting

100mm distance to the wall
 Flat curtains 2 elements 1440x3010mm, 1 element 1130x3010
 Total dimensions of the test object
 L x H = 3970mm x 3010mm

Room: Reverberation Room
 Volume: 156 m³
 Size: 11.95 m²
 Date of test 13/07/2022



Frequency [Hz]	α_s 1/3 octave	α_p octave
100	0.02	
125	0.03	0.05
160	0.10	
200	0.22	
250	0.34	0.35
315	0.45	
400	0.63	
500	0.73	0.70
630	0.79	
800	0.83	
1000	0.85	0.80
1260	0.78	
1600	0.72	
2000	0.77	0.75
2500	0.79	
3160	0.78	
4000	0.78	0.80
5000	0.82	



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

NRC:	0.65
SAA:	0.66

Rating according to ISO 11654:

Weighted Sound Absorption Coefficient $\alpha_w = 0.65$ (H)

Sound absorption class: C