Sound Absorption Coefficient ISO 354

Measurement of absorption in reverberation rooms

Client kvadrat
Test Specimen Curtains Flat

Mounting type G-100
One layer of textile
Textile: Guest from Kvadrat

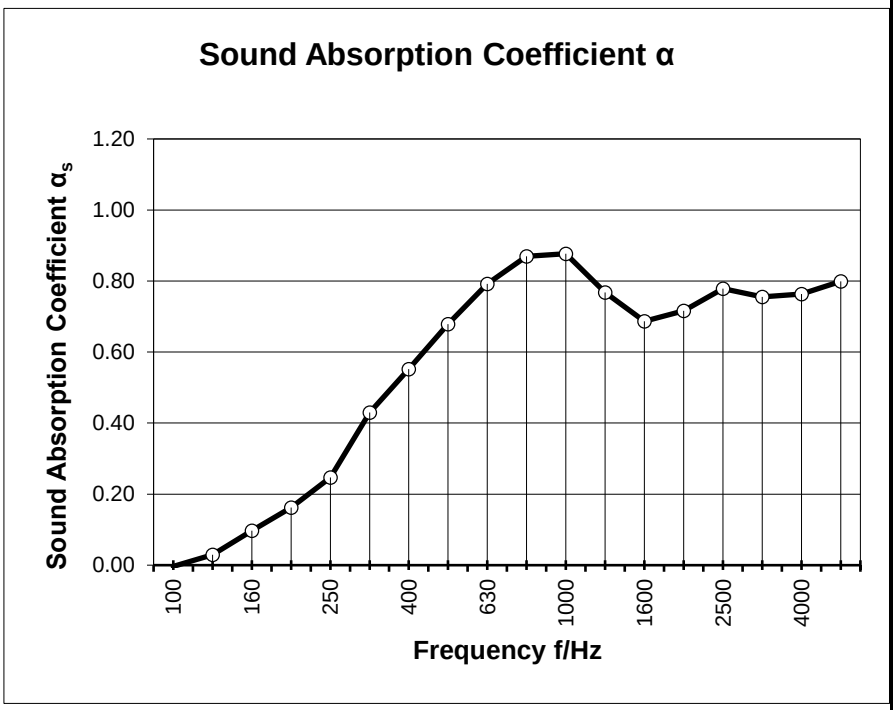
Test Build-Up (from top to bottom):

1.4	mm	Front textile
100	mm	Air gap
		Reflective wall

Mounting
100mm distance to the wall
Flat curtains 3 elements: 2x 1480x3010mm + 1x 1060x3010mm
Total dimensions of the test object
L x H = 3980mm x 3010mm

Room: Reverberation Room
Volume: 156 m^3
Size: 11.98 m^2
Date of test 06-02-25

Frequency [Hz]	αs 1/3 octave	αp octave
100	0.00	
125	0.03	0.05
160	0.10	
200	0.16	
250	0.25	0.30
315	0.43	
400	0.55	
500	0.68	0.65
630	0.79	
800	0.87	
1000	0.88	0.85
1260	0.77	
1600	0.69	
2000	0.72	0.75
2500	0.78	
3160	0.76	
4000	0.76	0.75
5000	0.80	



αs Sound absorption coefficient to ISO 354
αp Practical sound absorption coefficient to ISO 11654

NRC:	**0.65**
SAA:	**0.63**

Rating according to ISO 11654:

Weighted Sound Absorption Coefficient α_w = 0.6 (MH)

Sound absorption class: C

kvadrat acoustics

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

Sound Absorption Coefficient ISO 354

Measurement of absorption in reverberation rooms

Client kvadrat
Test Specimen Curtains Flat

Mounting type G-150

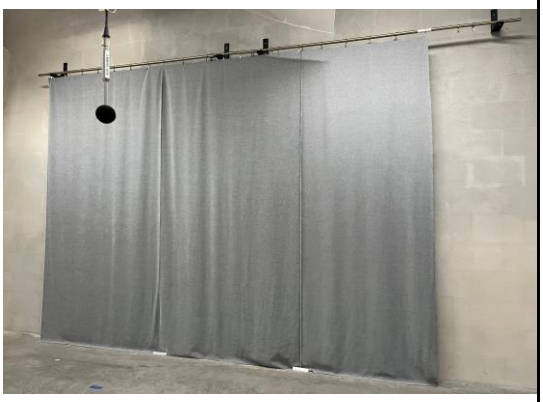
One layer of textile
Textile: Guest from Kvadrat

Test Build-Up (from top to bottom):

1.4	mm	Front textile
100	mm	Air gap
		Reflective wall

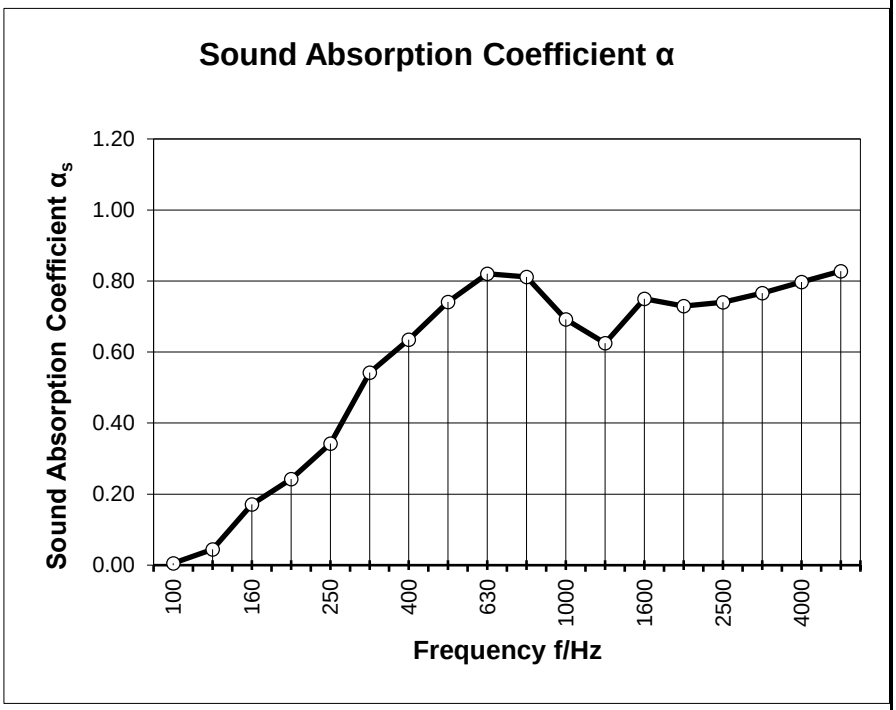
Mounting

150mm distance to the wall
Flat curtains 3 elements: 2x 1480x3010mm + 1x 1060x3010mm
Total dimensions of the test object
L x H = 3980mm x 3010mm



Room: Reverberation Room
Volume: 156 m^3
Size: 11.98 m^2
Date of test 06-02-25

Frequency [Hz]	αs 1/3 octave	αp octave
100	0.01	
125	0.04	0.05
160	0.17	
200	0.24	
250	0.34	0.40
315	0.54	
400	0.63	
500	0.74	0.75
630	0.82	
800	0.81	
1000	0.69	0.70
1260	0.63	
1600	0.75	
2000	0.73	0.75
2500	0.74	
3160	0.77	
4000	0.80	0.80
5000	0.83	



αs Sound absorption coefficient to ISO 354
αp Practical sound absorption coefficient to ISO 11654

NRC:	**0.65**
SAA:	**0.64**

Rating according to ISO 11654:

Weighted Sound Absorption Coefficient α_w = 0.7

Sound absorption class: C

kvadrat acoustics

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

Sound Absorption Coefficient ISO 354

Measurement of absorption in reverberation rooms

Client kvadrat
Test Specimen Curtains Flat

Mounting type G-150

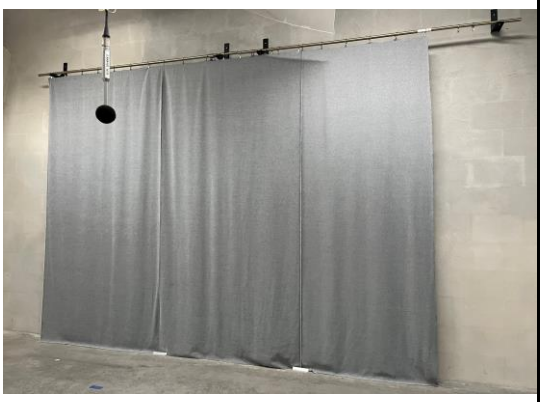
One layer of textile
Textile: Guest from Kvadrat

Test Build-Up (from top to bottom):

1.4	mm	Front textile
100	mm	Air gap
		Reflective wall

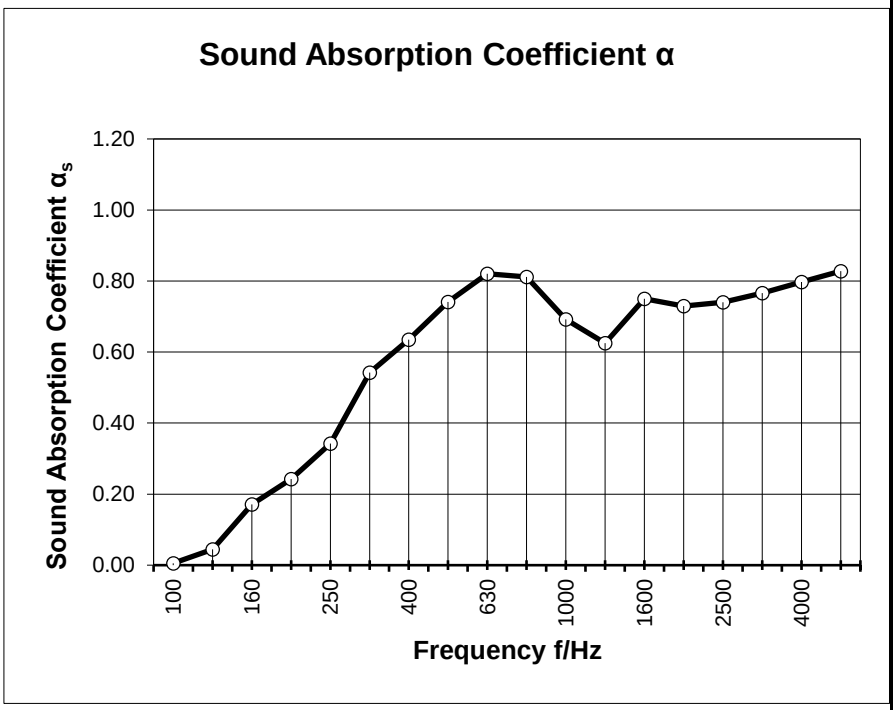
Mounting

150mm distance to the wall
Flat curtains 3 elements: 2x 1480x3010mm + 1x 1060x3010mm
Total dimensions of the test object
L x H = 3980mm x 3010mm



Room: Reverberation Room
Volume: 156 m^3
Size: 11.98 m^2
Date of test 06-02-25

Frequency [Hz]	αs 1/3 octave	αp octave
100	0.01	
125	0.04	0.05
160	0.17	
200	0.24	
250	0.34	0.40
315	0.54	
400	0.63	
500	0.74	0.75
630	0.82	
800	0.81	
1000	0.69	0.70
1260	0.63	
1600	0.75	
2000	0.73	0.75
2500	0.74	
3160	0.77	
4000	0.80	0.80
5000	0.83	



αs Sound absorption coefficient to ISO 354
αp Practical sound absorption coefficient to ISO 11654

NRC:	**0.65**
SAA:	**0.64**

Rating according to ISO 11654:

Weighted Sound Absorption Coefficient α_w = 0.7

Sound absorption class: C

kvadrat acoustics

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

Sound Absorption Coefficient ISO 354

Measurement of absorption in reverberation rooms

Client Kvadrat
Test Specimen Curtains Folded 100%

Mounting type G-150

One layer of textile

Textile: Guest from Kvadrat

Test Build-Up (from top to bottom):

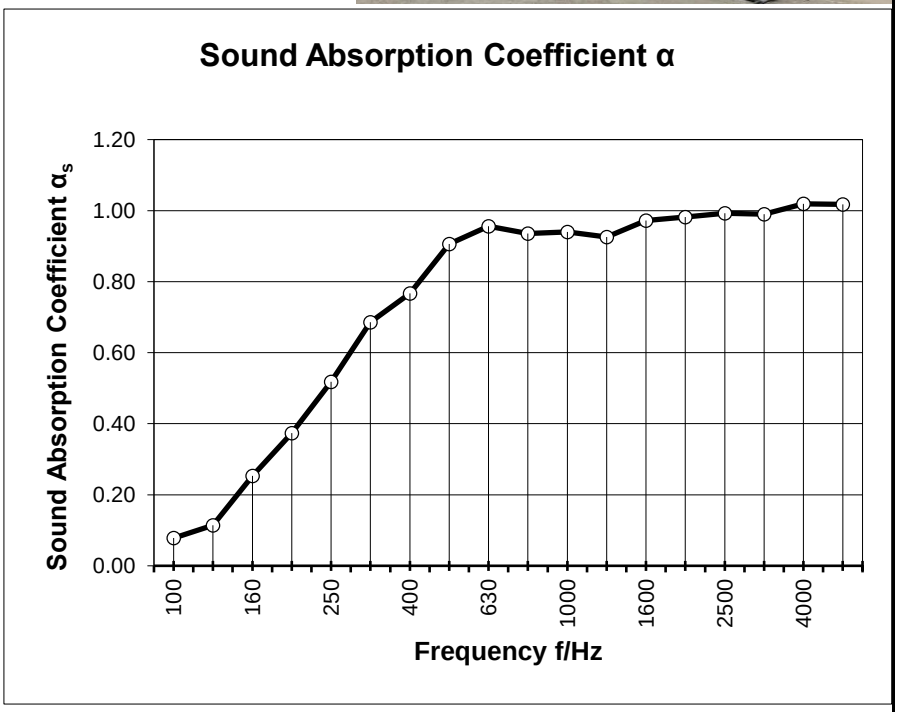
1.4	mm	Front textile
150	mm	Air gap
		Reflective wall

Mounting

150mm distance to the wall
1 layer of curtains, 5 elements 1480x3010mm with approx. 20mm overlap, 100% folded, 200% textile length
Total dimensions of the test object
L x H = 3660mm x 3010mm

Room: Reverberation Room
Volume: 156 m^3
Size: 11.02 m^2
Date of test 06-02-25

Frequency [Hz]	αs 1/3 octave	αp octave
100	0.08	
125	0.11	0.15
160	0.25	
200	0.37	
250	0.52	0.55
315	0.69	
400	0.77	
500	0.91	0.90
630	0.96	
800	0.94	
1000	0.94	0.95
1260	0.93	
1600	0.97	
2000	0.98	1.00
2500	0.99	
3160	0.99	
4000	1.02	1.00
5000	1.02	



αs Sound absorption coefficient to ISO 354
αp Practical sound absorption coefficient to ISO 11654

NRC:	**0.85**
SAA:	**0.83**

Rating according to ISO 11654:

Weighted Sound Absorption Coefficient α_w = 0.85 (H)

Sound absorption class:B

kvadrat acoustics

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