Sound Absorption Coefficient ISO 354

Measurement of absorption in reverberation rooms

Client Kvadrat
Test Specimen Curtains
Flat
Wall mounting - 100mm distance
One layer of textile

Textile: Balboa from Kvadrat 100% polyester FR

Test Build-Up (from top to bottom):

1 mm	Front textile
100 mm	Air gap
	Reflective wall

Mounting

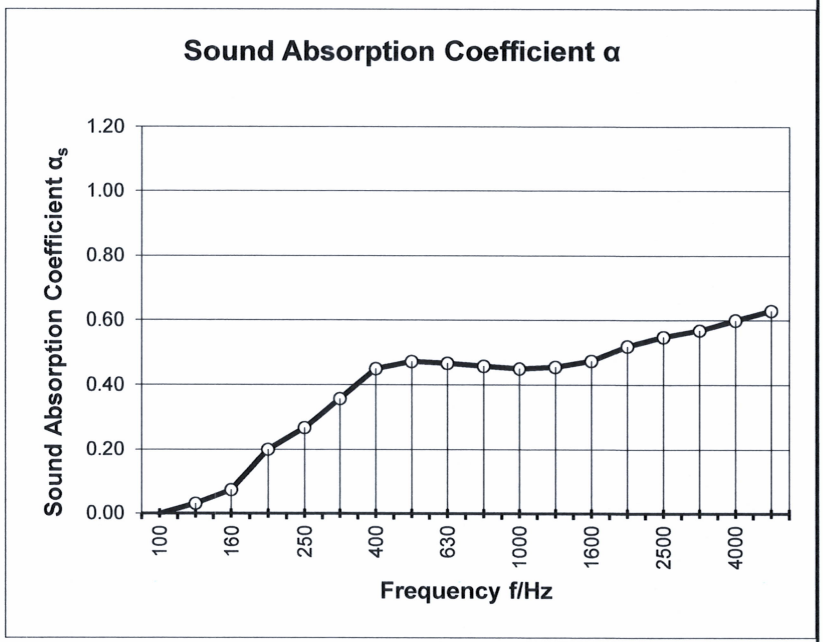
100mm distance to the wall

Flat curtains 3 elements with approx. 20mm overlap
Total dimensions of the test object
L x H = 4200mm x 3010mm

Room: Reverberation Room
Volume: 156 m^3
Size: 12.64 m^2
Date of test 07-08-19

Frequency [Hz]	αs 1/3 octave	αp octave
100	0.00	
125	0.03	0.05
160	0.07	
200	0.20	
250	0.27	0.30
315	0.36	
400	0.45	
500	0.47	0.45
630	0.47	
800	0.46	
1000	0.45	0.45
1260	0.46	
1600	0.47	
2000	0.52	0.50
2500	0.55	
3160	0.57	
4000	0.60	0.60
5000	0.63	

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



NRC:	**0.45**
SAA:	**0.43**

Rating according to ISO 11654:

Weighted Sound Absorption Coefficient α_w = 0.5

Sound absorption class:D

kvadrat soft cells

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%
Wall mounting with 100mm distance
One layer of textile

Textile: Balboa from Kvadrat 100% polyester FR

Test Build-Up (from top to bottom):

1 mm	Front textile
100 mm	Air gap
	Reflective wall

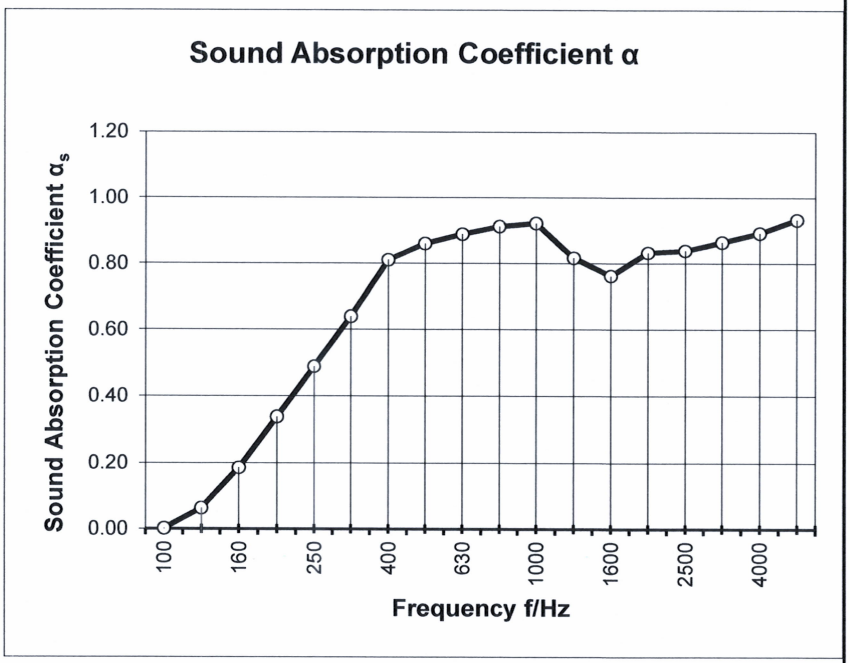
Mounting

100mm distance to the wall
1 layer of curtains, 6 elements with approx. 20mm overlap,
100% folded, 200% textile length
Total dimensions of the test object
L x H = 4200mm x 3010mm

Room: Reverberation Room
Volume: 156 m^3
Size: 12.64 m^2
Date of test 07-08-19

Frequency [Hz]	αs 1/3 octave	αp octave
100	0.00	
125	0.06	0.10
160	0.19	
200	0.34	
250	0.49	0.50
315	0.64	
400	0.81	
500	0.86	0.85
630	0.89	
800	0.91	
1000	0.92	0.90
1260	0.82	
1600	0.76	
2000	0.83	0.80
2500	0.84	
3160	0.87	
4000	0.89	0.90
5000	0.93	

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



NRC:	**0.75**
SAA:	**0.76**

Rating according to ISO 11654:

Weighted Sound Absorption Coefficient α_w = 0.8

Sound absorption class:B

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