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

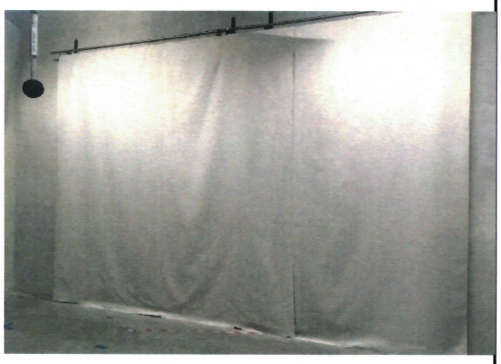
Textile: Reflect from Kvadrat colour: 204
100% Recycled PET

Test Build-Up (from top to bottom):

1 mm	Front textile
100 mm	Air gap
	Reflective wall

Mounting

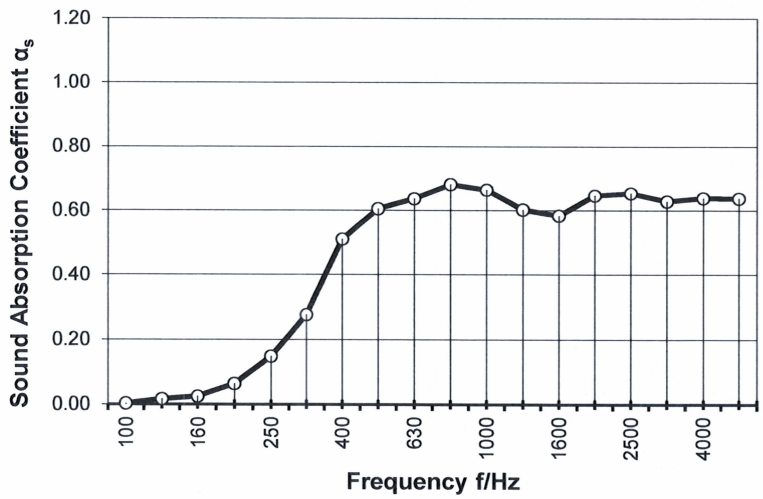
100mm distance to the wall
Flat curtains 3 elements 1450x3000mm with approx. 20mm overlap
Total dimensions of the test object
L x H = 4310mm x 3000mm



Room: Reverberation Room
Volume: 156 m^3
Size: 12.93 m^2
Date of test 15-06-20

Frequency [Hz]	αs 1/3 octave	αp octave
100	0.00	
125	0.02	0.00
160	0.02	
200	0.06	
250	0.15	0.15
315	0.28	
400	0.51	
500	0.61	0.60
630	0.64	
800	0.68	
1000	0.66	0.65
1260	0.60	
1600	0.58	
2000	0.65	0.65
2500	0.65	
3160	0.63	
4000	0.64	0.65
5000	0.64	

Sound Absorption Coefficient α



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

NRC:	**0.50**
SAA:	**0.51**

Rating according to ISO 11654:

Weighted Sound Absorption Coefficient α_w = 0.45 (H)

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: Reflect from Kvadrat colour: 204
100% Recycled PET

Test Build-Up (from top to bottom):

1 mm	Front textile
100 mm	Air gap
	Reflective wall

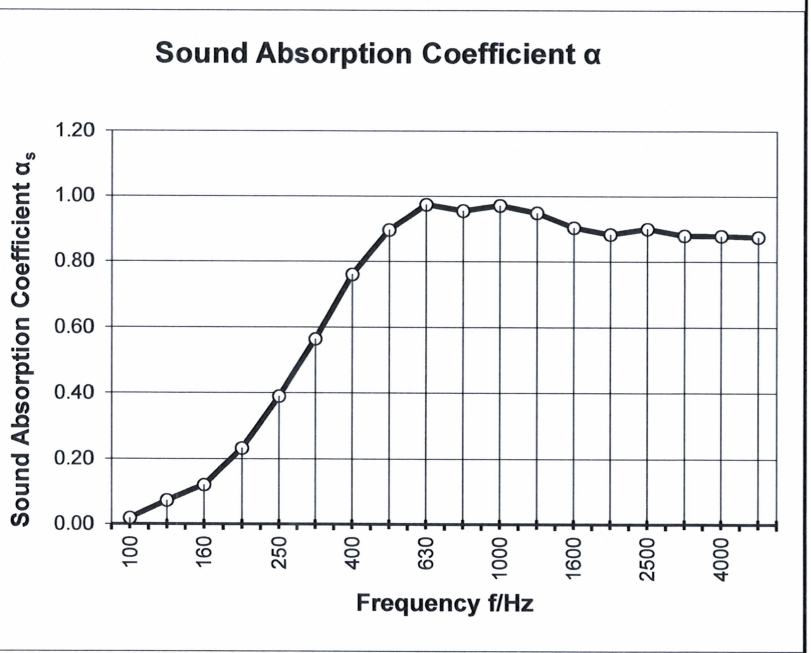
Mounting

100mm distance to the wall
1 layer of curtains, 5 elements 1450x3000mm with approx. 20mm overlap, 100% folded, 200% textile length
Total dimensions of the test object
L x H = 3580mm x 3000mm

Room: Reverberation Room
Volume: 156 m^3
Size: 10.74 m^2
Date of test 15-06-20

Frequency [Hz]	αs 1/3 octave	αp octave
100	0.02	
125	0.07	0.05
160	0.12	
200	0.23	
250	0.39	0.40
315	0.56	
400	0.76	
500	0.90	0.90
630	0.97	
800	0.96	
1000	0.97	0.95
1260	0.95	
1600	0.90	
2000	0.88	0.90
2500	0.90	
3160	0.88	
4000	0.88	0.90
5000	0.87	

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



NRC:	**0.80**
SAA:	**0.78**

Rating according to ISO 11654:

Weighted Sound Absorption Coefficient α_w = 0.7 (MH)

Sound absorption class:C

kvadrat soft cells

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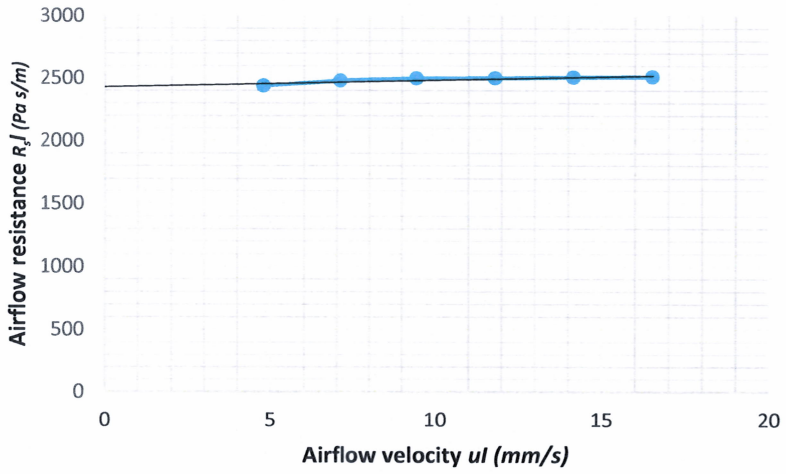
EN 29053 - Determination of airflow resistance

Direct airflow method - method A

Client	Kvadrat	
Date:	15-06-20	
Fabric details	Type:	Reflect
	Colour:	204
	Order:	
	Pick:	
	Manufacturer:	Kvadrat
Specimen	Diameter:	100 mm
	Thickness:	0.47 mm
	Area specific mass:	306 g/m^2

ul (mm/s)	*R_s l (Pa s/m)*
16.53	2511
14.16	2507
11.80	2500
9.44	2497
7.12	2480
4.80	2438



Airflow Resistance

R_s = 2430 Pa s/m

Test conducted by Kvadrat SoftCells
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