

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: Super felt from Kvadrat

Test Build-Up (from top to bottom):

1.9 mm Front textile
 150 mm Air gap
 Reflective wall

Mounting

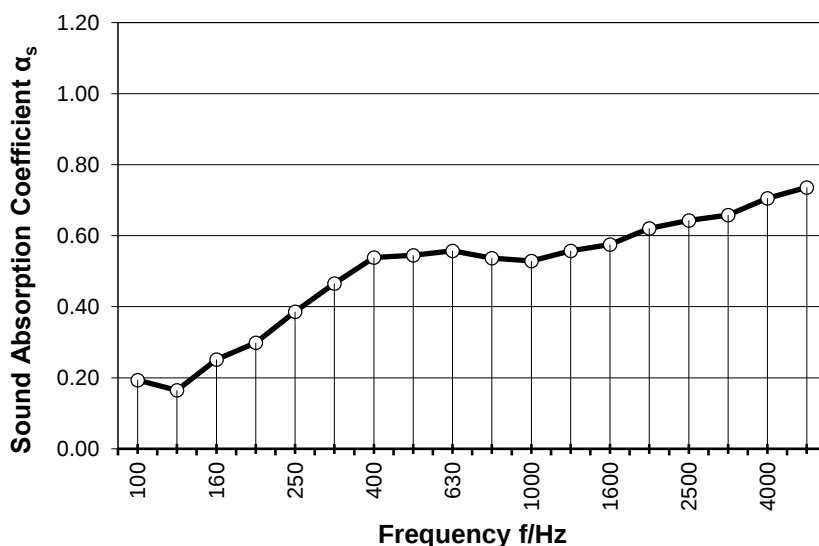
150mm distance to the wall
 1 layer of curtains, 4 elements 1650x3010mm, 1 element 830mmx3010 with approx. 20mm overlap, 100% folded,
 Total dimensions of the test object
 L x H = 3675mm x 3010mm

Room: Reverberation Room
 Volume: 156 m³
 Size: 11.06 m²
 Date of test 10-07-26



Frequency [Hz]	α_s 1/3 octave	α_p octave
100	0.19	0.20
125	0.16	
160	0.25	
200	0.30	0.40
250	0.39	
315	0.47	
400	0.54	0.55
500	0.54	
630	0.56	
800	0.54	0.55
1000	0.53	
1260	0.56	
1600	0.57	0.60
2000	0.62	
2500	0.64	
3160	0.66	0.70
4000	0.71	
5000	0.74	

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 $\alpha_w = 0.6$

Sound absorption class:C

Sound Absorption Coefficient ISO 354

Measurement of absorption in reverberation rooms

Client Kvadrat
Test Specimen Curtains Folded 100%

Mounting type G-100

One layer of textile

Textile: Super felt from Kvadrat

Test Build-Up (from top to bottom):

1.9 mm Front textile
 150 mm Air gap
 Reflective wall

Mounting

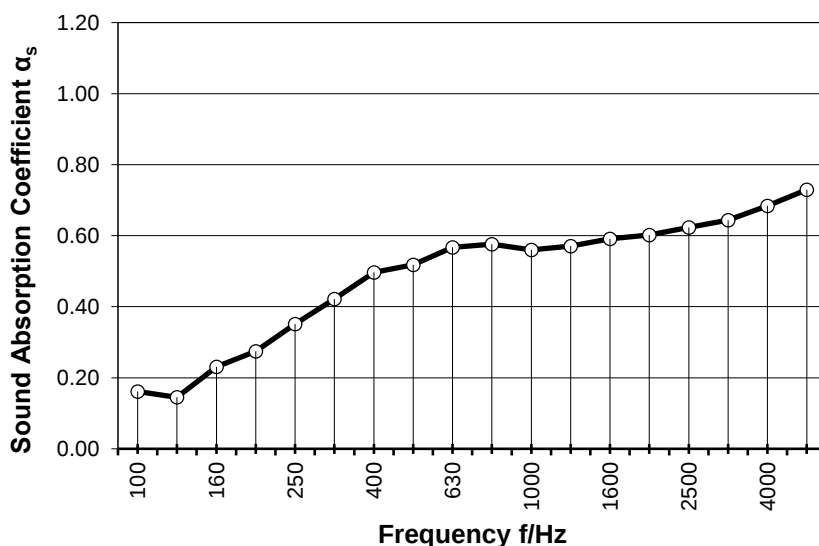
100mm distance to the wall
 1 layer of curtains, 4 elements 1650x3010mm, 1 element 830mmx3010 with approx. 20mm overlap, 100% folded,
 Total dimensions of the test object
 L x H = 3675mm x 3010mm

Room: Reverberation Room
 Volume: 156 m³
 Size: 11.06 m²
 Date of test 10-07-26



Frequency [Hz]	α_s 1/3 octave	α_p octave
100	0.16	0.20
125	0.14	
160	0.23	
200	0.27	0.35
250	0.35	
315	0.42	
400	0.50	0.55
500	0.52	
630	0.57	
800	0.58	0.55
1000	0.56	
1260	0.57	
1600	0.59	0.60
2000	0.60	
2500	0.62	
3160	0.64	0.70
4000	0.68	
5000	0.73	

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:	0.51

Rating according to ISO 11654:

Weighted Sound Absorption Coefficient $\alpha_w = 0.55$ (H)

Sound absorption class:D

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: Super felt from Kvadrat

Test Build-Up (from top to bottom):

1.9 mm Front textile
 100 mm Air gap
 Reflective wall

Mounting

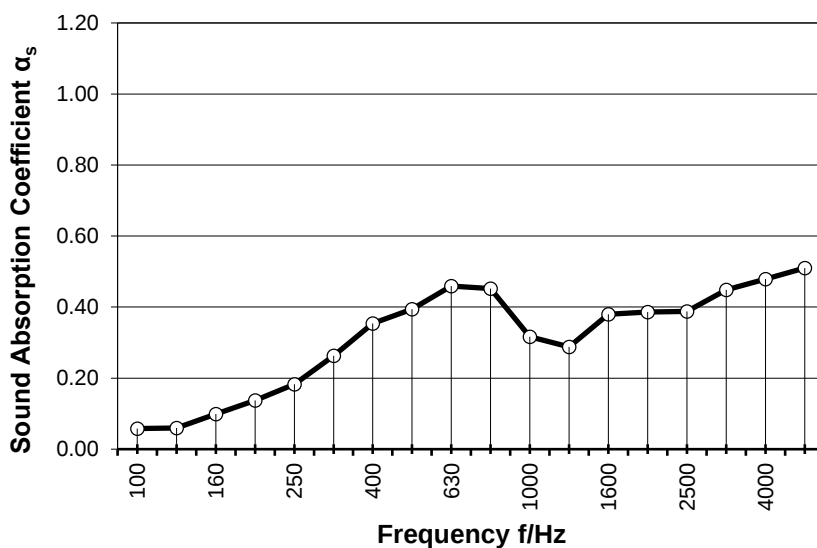
150mm distance to the wall
 Flat curtains 3 elements: 2x 1650x3010mm + 1x 680x3010mm
 Total dimensions of the test object
 L x H = 3980mm x 3010mm

Room: Reverberation Room
 Volume: 156 m³
 Size: 11.98 m²
 Date of test 10-07-26



Frequency [Hz]	α_s 1/3 octave	α_p octave
100	0.06	0.05
125	0.06	
160	0.10	
200	0.14	0.20
250	0.18	
315	0.26	
400	0.35	0.40
500	0.39	
630	0.46	
800	0.45	0.35
1000	0.32	
1260	0.29	
1600	0.38	0.40
2000	0.39	
2500	0.39	
3160	0.45	0.50
4000	0.48	
5000	0.51	

Sound Absorption Coefficient α



α_s Sound absorption coefficient to ISO 354

α_p Practical sound absorption coefficient to ISO 11654

NRC:	0.35
SAA:	0.33

Rating according to ISO 11654:

Weighted Sound Absorption Coefficient $\alpha_w = 0.4$

Sound absorption class: D

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: Super felt from Kvadrat

Test Build-Up (from top to bottom):

1.9 mm Front textile
 100 mm Air gap
 Reflective wall

Mounting

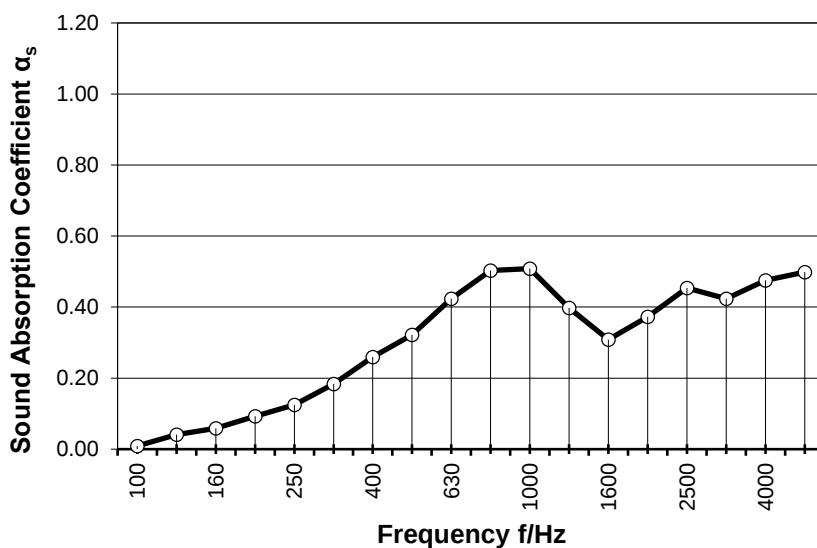
100mm distance to the wall
 Flat curtains 3 elements: 2x 1650x3010mm + 1x 680x3010mm
 Total dimensions of the test object
 L x H = 3980mm x 3010mm

Room: Reverberation Room
 Volume: 156 m³
 Size: 11.98 m²
 Date of test 10-07-26



Frequency [Hz]	α_s 1/3 octave	α_p octave
100	0.01	0.05
125	0.04	
160	0.06	
200	0.09	0.15
250	0.12	
315	0.18	
400	0.26	0.35
500	0.32	
630	0.42	
800	0.50	0.45
1000	0.51	
1260	0.40	
1600	0.31	0.40
2000	0.37	
2500	0.45	
3160	0.42	0.45
4000	0.48	
5000	0.50	

Sound Absorption Coefficient α



α_s Sound absorption coefficient to ISO 354

α_p Practical sound absorption coefficient to ISO 11654

NRC:	0.35
SAA:	0.33

Rating according to ISO 11654:

Weighted Sound Absorption Coefficient $\alpha_w = 0.4$

Sound absorption class: D