

Sound Absorption Coefficient ISO 354

Measurement of absorption in reverberation rooms

Client Kinnasand
Test Specimen Curtains
 Flat

Wall mounting - 100mm distance
 One layer of textile

Front textile: Relax from Kinnasand
 53% polyester FR 47% polyester

Test Build-Up (from top to bottom):

1 mm Front textile
 100 mm Air gap
 Reflective wall

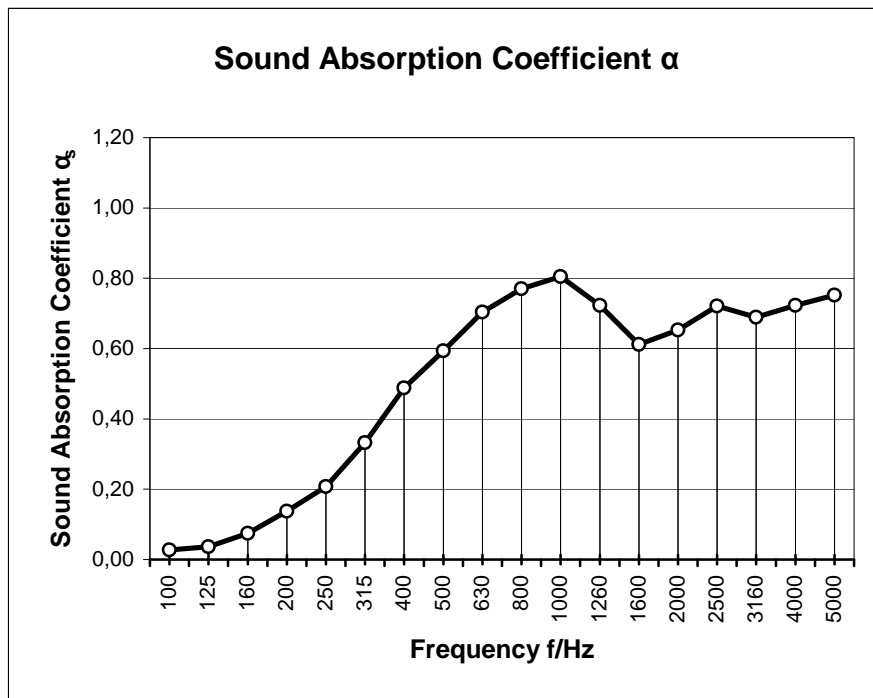
Mounting

100mm distance to the wall
 Flat curtains 3 elements 1550x3000 mm with approx. 20 mm overlap
 Total dimensions of the test object
 L x H = 4600mm x 3000mm

Room: Reverberation Room
 Volume: 156 m³
 Size: 13,80 m²
 Date of test 24-02-2016



Frequency [Hz]	as 1/3 octave	ap octave
100	0,03	
125	0,04	0,05
160	0,07	
200	0,14	
250	0,21	0,25
315	0,33	
400	0,49	
500	0,59	0,60
630	0,70	
800	0,77	
1000	0,80	0,75
1260	0,72	
1600	0,61	
2000	0,65	0,65
2500	0,72	
3160	0,69	
4000	0,72	0,70
5000	0,75	



as Sound absorption coefficient to ISO 354
 ap Practical sound absorption coefficient to ISO 11654

NRC:	0,55
SAA:	0,56

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 Kinnasand
Test Specimen Curtains
 Folded 100%
Wall mounting with 100mm distance
 One layer of textile

Front textile: Relax from Kinnasand
 53% polyester FR 47% polyester

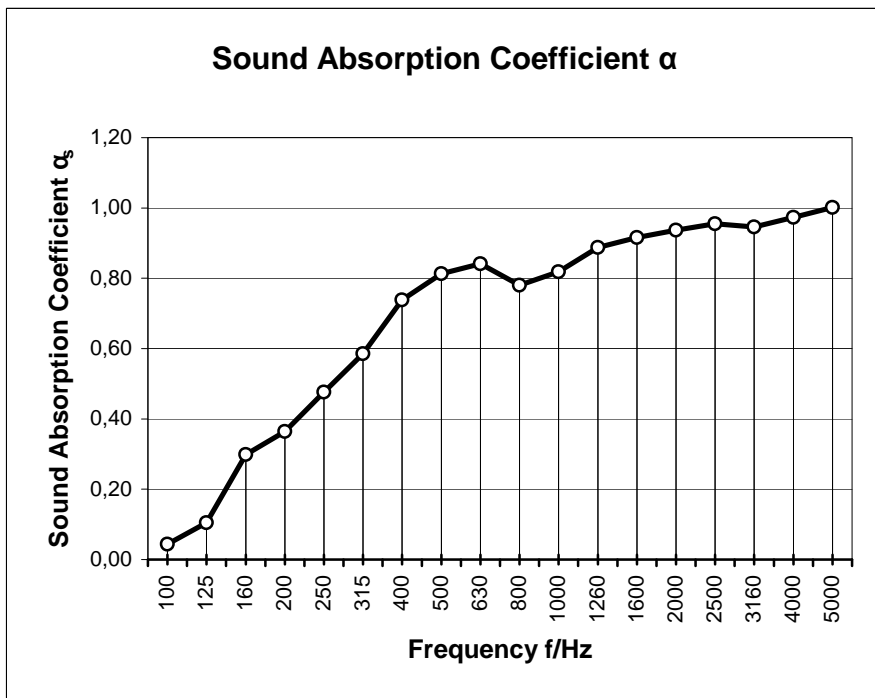
Test Build-Up (from top to bottom):
 1 mm Front textile
 100 mm Air gap
 Reflective wall

Mounting
 100mm distance to the wall
 1 layer of curtains, 6 elements 1550x3000mm with approx. 20mm overlap, 100% folded, 200% textile length
 Total dimensions of the test object
 L x H = 4600mm x 3000mm

Room: Reverberation Room
 Volume: 156 m³
 Size: 13,80 m²
 Date of test 24-02-2016



Frequency [Hz]	as 1/3 octave	ap octave
100	0,04	
125	0,10	0,15
160	0,30	
200	0,36	
250	0,48	0,50
315	0,59	
400	0,74	
500	0,81	0,80
630	0,84	
800	0,78	
1000	0,82	0,85
1260	0,89	
1600	0,92	
2000	0,94	0,95
2500	0,95	
3160	0,95	
4000	0,97	0,95
5000	1,00	



as Sound absorption coefficient to ISO 354
 ap Practical sound absorption coefficient to ISO 11654

NRC:	0,75
SAA:	0,76

Rating according to ISO 11654:

Weighted Sound Absorption Coefficient $\alpha_w = 0,8$ (H)

Sound absorption class: B