

Sound Absorption Coefficient ISO 354

Measurement of absorption in reverberation rooms

Client Kinnasand / Kvadrat

Test Specimen Curtains
Folded 100%

Wall mounting with 100mm distance
One layer of textile

Textile: Pleats from Kinnasand colour: 14
100% Polyester FR

Test Build-Up (from top to bottom):

1 mm Front textile
100 mm Air gap
Reflective wall

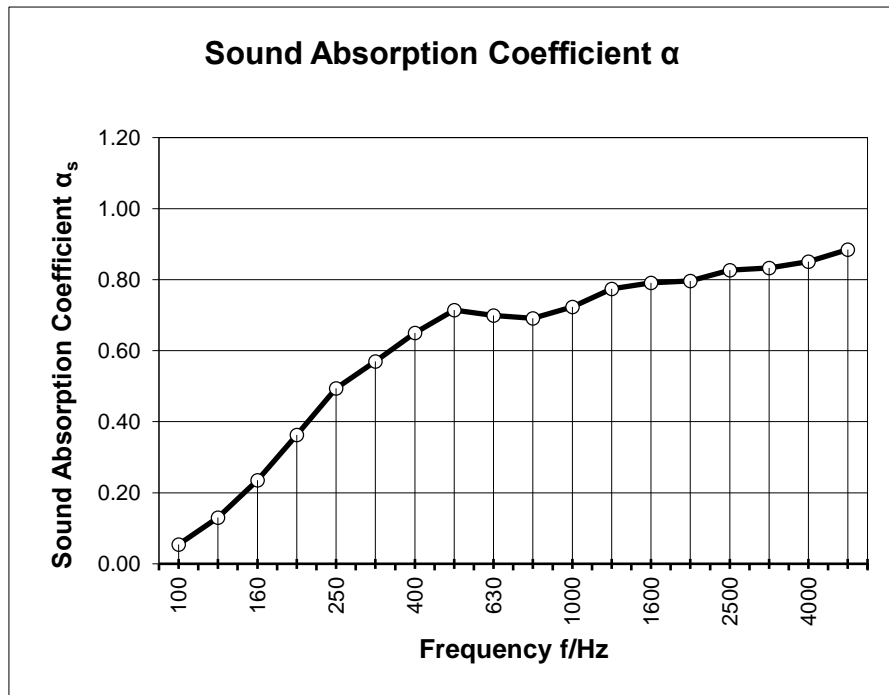
Mounting

100mm distance to the wall
1 layer of curtains, 5 elements 1500x3000mm with approx. 20mm overlap, 100% folded, 200% textile length
Total dimensions of the test object
L x H = 3710mm x 3000mm

Room: Reverberation Room
Volume: 156 m³
Size: 11.13 m²
Date of test 24-05-21



Frequency [Hz]	α_s 1/3 octave	α_p octave
100	0.05	
125	0.13	0.15
160	0.24	
200	0.36	
250	0.49	0.50
315	0.57	
400	0.65	
500	0.71	0.70
630	0.70	
800	0.69	
1000	0.72	0.75
1260	0.77	
1600	0.79	
2000	0.80	0.80
2500	0.83	
3160	0.83	
4000	0.85	0.85
5000	0.88	



α_s Sound absorption coefficient to ISO 354
 α_p Practical sound absorption coefficient to ISO 11654

NRC:	0.65
SAA:	0.67

Rating according to ISO 11654:

Weighted Sound Absorption Coefficient $\alpha_w = 0.75$

Sound absorption class:C