

Sound Absorption Coefficient ISO 354

Measurement of absorption in reverberation rooms

Client Kvadrat SoftCells
Test Specimen Curtains
 Configuration: Flat

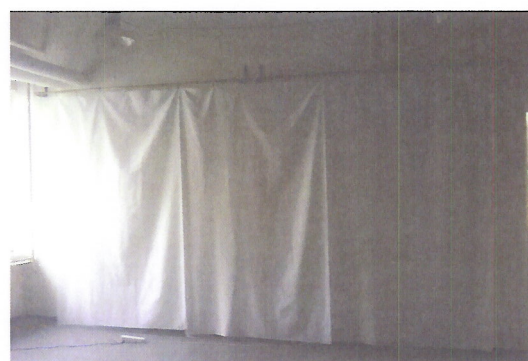
Wall mounting
 One layer of textile

Front textile: Unix from Kinnasand

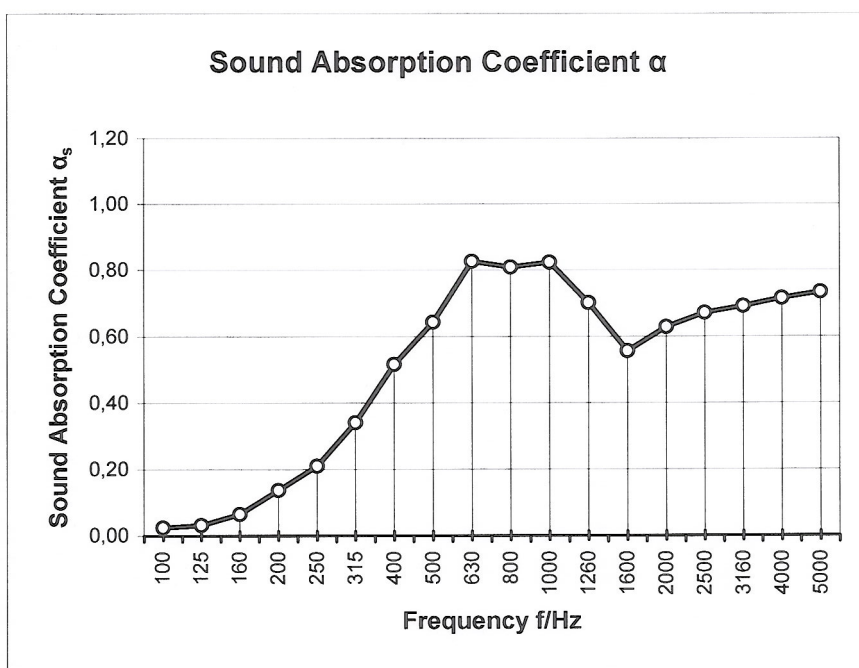
Test Build-Up (from top to bottom):
 1 mm Front textile
 100 mm Air gap
 Reflective wall

Mounting
 G-100
 3 curtains mounted flat with approx. 20mm overlap
 Total dimensions of the test object
 L x H = 4530mm x 2650mm

Room: Reverberation Room
Volume: 242 m³
Size: 12,00 m²
Date of test 18-02-2014



Frequency [Hz]	α_s 1/3 octave	α_p octave
100	0,02	
125	0,03	0,05
160	0,06	
200	0,14	
250	0,21	0,25
315	0,34	
400	0,52	
500	0,64	0,65
630	0,83	
800	0,81	
1000	0,82	0,80
1260	0,70	
1600	0,56	
2000	0,63	0,60
2500	0,67	
3160	0,69	
4000	0,72	0,70
5000	0,73	



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

Rating according to ISO 11654:

Weighted Sound Absorption Coefficient $\alpha_w = 0,55$
 Sound absorption class:D

Sound Absorption Coefficient ISO 354

Measurement of absorption in reverberation rooms

Client Kvadrat SoftCells
Test Specimen Curtains
 Configuration: Folded 100%

Wall mounting
 One layer of textile

Front textile: Unix from Kinnasand

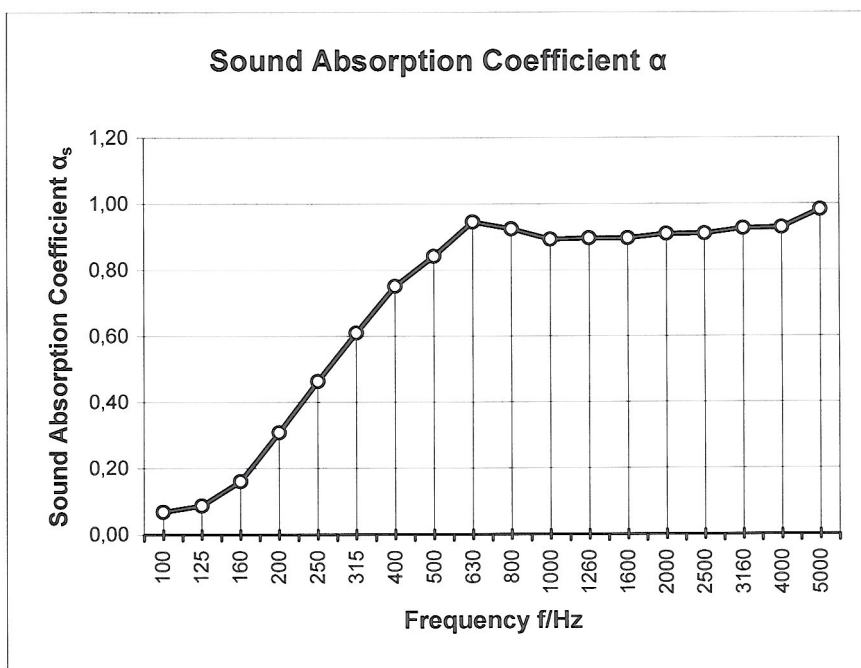
Test Build-Up (from top to bottom):
 1 mm Front textile
 100 mm Air gap
 Reflective wall

Mounting
 100mm distance to the wall
 3 curtains 100% folded, 200% textile length, approx.
 20mm overlap
 Total dimensions of the test object
 L x H = 3040mm x 2650mm

Room: Reverberation Room
Volume: 242 m³
Size: 8,06 m²
Date of test 18-02-2014



Frequency [Hz]	as 1/3 octave	ap octave
100	0,07	
125	0,09	0,10
160	0,16	
200	0,31	
250	0,46	0,45
315	0,61	
400	0,75	
500	0,84	0,85
630	0,95	
800	0,92	
1000	0,89	0,90
1260	0,90	
1600	0,90	
2000	0,91	0,90
2500	0,91	
3160	0,93	
4000	0,93	0,95
5000	0,98	



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

Rating according to ISO 11654:

Weighted Sound Absorption Coefficient $\alpha_w = 0,75$ (H)

Sound absorption class:C