

Sound Absorption Coefficient ISO 354

Measurement of absorption in reverberation rooms

Client Really
Test Specimen Really grey/blue matts 10mm

Wall mounting

Really blue-gray matt
 Thickness: 10mm
 Density: 100kg/m³
 Airflow resistivity r: 121500 Pa·s/m²

Test Build-Up (from top to bottom):

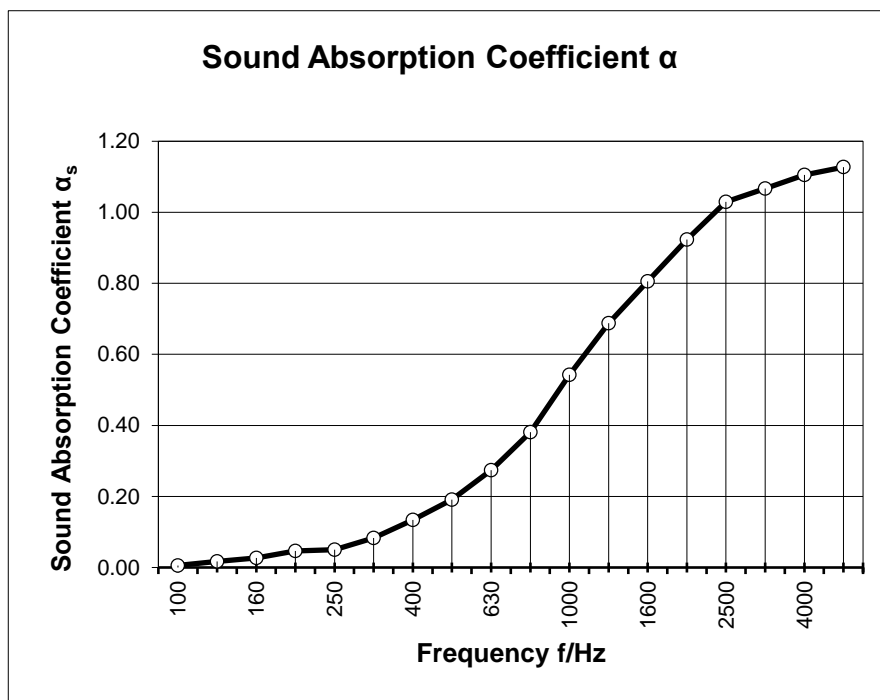
10 mm Really blue-grey 10mm
 Concrete floor of reverberation room

Mounting

Placed directly on the floor
 3 modules placed without interspaces with no surrounding frames
 Total dimensions of the test object
 B x L x H = 3540mm x 3000mm x 10mm

Room: Reverberation Room
 Volume: 156 m³
 Size: 10.62 m²
 Date of test 13-03-17

Frequency [Hz]	α_s 1/3 octave	α_p octave
100	0.01	
125	0.02	0.00
160	0.03	
200	0.05	
250	0.05	0.05
315	0.08	
400	0.13	
500	0.19	0.20
630	0.27	
800	0.38	
1000	0.54	0.55
1260	0.69	
1600	0.81	
2000	0.92	0.90
2500	1.03	
3160	1.07	
4000	1.11	1.00
5000	1.13	



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

NRC:	0.45
SAA:	0.43

Rating according to ISO 11654:

Weighted Sound Absorption Coefficient $\alpha_w = 0.25$ (MHH)

Sound absorption class:E

Sound Absorption Coefficient ISO 354

Measurement of absorption in reverberation rooms

Client Really
Test Specimen Really white matts 20mm

Wall mounting
 Really white matt
 Thickness: 20mm
 Density: 120kg/m³
 Airflow resistivity r: 110000 Pa·s/m²

Test Build-Up (from top to bottom):

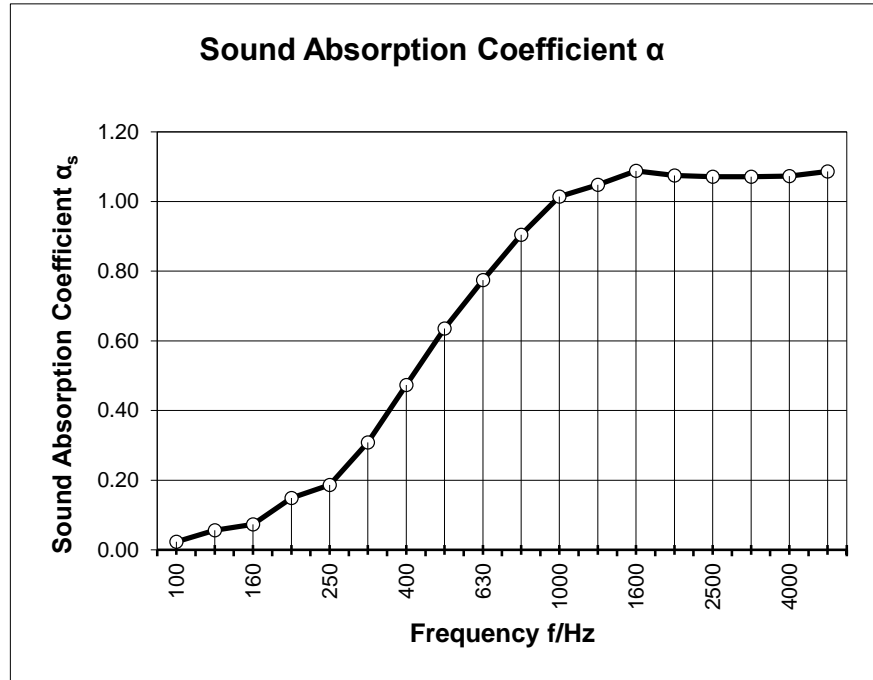
20 mm Really white 20mm
 Concrete floor of reverberation room

Mounting

Placed directly on the floor
 3 modules placed without interspaces on a surrounding wooden frame
 Total dimensions of the test object
 B x L x H = 3540mm x 2600mm x 20mm

Room: Reverberation Room
 Volume: 156 m³
 Size: 9.20 m²
 Date of test 09-03-17

Frequency [Hz]	α_s 1/3 octave	α_p octave
100	0.02	
125	0.06	0.05
160	0.07	
200	0.15	
250	0.19	0.20
315	0.31	
400	0.47	
500	0.64	0.65
630	0.77	
800	0.90	
1000	1.01	1.00
1260	1.05	
1600	1.09	
2000	1.08	1.00
2500	1.07	
3160	1.07	
4000	1.07	1.00
5000	1.09	



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

NRC:	0.75
SAA:	0.73

Rating according to ISO 11654:

Weighted Sound Absorption Coefficient $\alpha_w = 0.5$ (MHH)

Sound absorption class:D