Sound Absorption Coefficient ISO 354

Measurement of absorption in reverberation rooms

Client Kvadrat SoftCells

Test Specimen Kvadrat SoftCells ceiling panel
Type: SoftCells BroadLine

Kvadrat SoftCells BroadLine ceiling mounting

Self-stretched aluminium frame with one layer of textile and acoustic insulator
Height of frame 49 mm
Height of frame incl. insulator 49 mm

Front textile: Casa from Kvadrat
Back side textile: -
Module size B X L = 1220 x 2600

Test Build-Up (from top to bottom):

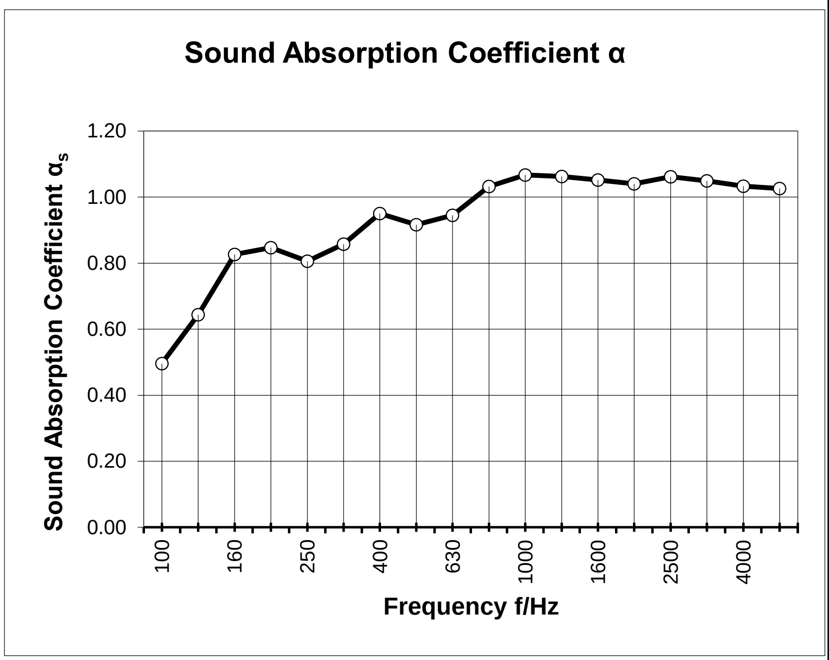
1	mm	Front textile
9	mm	Air gap
40	mm	Mineral-glass acoustic insulator, density 55kg/m^3
150	mm	Air gap
		Concrete floor of reverberation room

Mounting

Placed 150mm above the floor
3 modules placed without interspaces on a surrounding wooden frame
Total dimensions of the test object
B x L x H = 3660mm x 2600mm x 200mm

Room: Reverberation Room
Volume: 156 m^3
Size: 9.52 m^2
Date of test 10-08-17

Frequency [Hz]	αs 1/3 octave	αp octave
100	0.50	
125	0.64	0.65
160	0.83	
200	0.85	
250	0.81	0.85
315	0.86	
400	0.95	
500	0.92	0.95
630	0.94	
800	1.03	
1000	1.07	1.00
1260	1.06	
1600	1.05	
2000	1.04	1.00
2500	1.06	
3160	1.05	
4000	1.03	1.00
5000	1.03	



αs Sound absorption coefficient to ISO 354
αp Practical sound absorption coefficient to ISO 11654

NRC:	**0.95**
SAA:	**0.97**

Rating according to ISO 11654:

Weighted Sound Absorption Coefficient α_w = 1

Sound absorption class:A

kvadrat soft cells

Test conducted by Kvadrat SoftCells
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