



See SRL report C/09/5L/20816/R01 for full details

The Laboratory Measurement of Random Incidence Sound Absorption to BS EN ISO 354:2003

Client: Rockfon
Test Date: 18/06/2009
Empty Room: Temperature: 18.7 °C Humidity: 51 %RH Pressure: 1015 mbar
Room with Sample: Temperature: 18.7 °C Humidity: 50 %RH Pressure: 1015 mbar
Sample: Rockfon Baffles 1200x600x50mm - Double B edge
Description: 3 x 4.8m rows, 0.83m centres
Mounting Method: J
Sample Area: 11.95 m²
Chamber Volume: 300 m³

Sound Absorption Coefficient

Test 21				
Freq Hz	T1 sec	T2 sec	Absorp Coeff	Practical Absorp Coeff #
50*	4.39	3.84	0.13	
63*	4.32	3.89	0.10	n/a
80*	4.37	3.29	0.30	
100	5.76	3.82	0.36	
125	6.30	4.30	0.30	0.30
160	6.75	4.45	0.31	
200	7.13	4.43	0.35	
250	7.76	4.54	0.37	0.35
315	7.29	4.30	0.39	
400	6.36	3.49	0.52	
500	5.41	2.81	0.69	0.65
630	5.16	2.61	0.77	
800	5.48	2.69	0.77	
1000	5.94	2.74	0.80	0.80
1250	5.76	2.71	0.79	
1600	5.25	2.60	0.79	
2000	4.69	2.42	0.81	0.80
2500	4.06	2.32	0.74	
3150	3.38	2.07	0.75	
4000	2.74	1.80	0.76	0.75
5000	2.11	1.55	0.67	
6300*	1.57	1.24	0.66	
8000*	1.19	0.99	0.64	n/a
10000*	0.87	0.77	0.54	

α_w 0.65

Class C

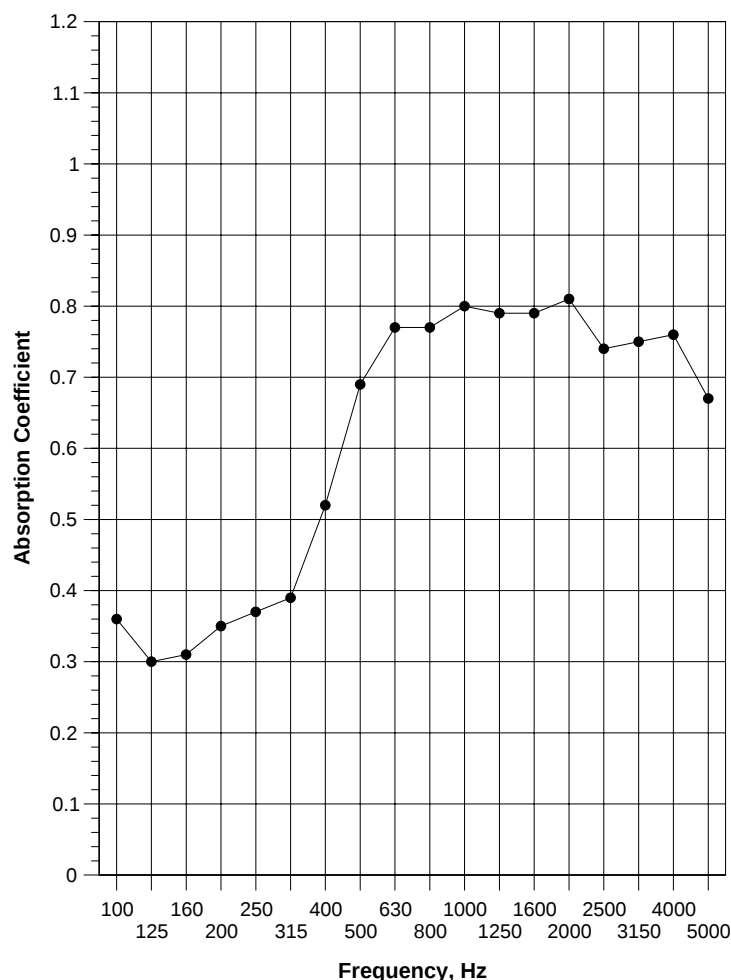
Calculated to EN ISO 11654:1997

NRC 0.65

Calculated to ASTM C 423-01

* Denotes frequencies outside the range covered by BS EN ISO 354:2003

T1, empty room reverberation time
T2, room reverberation time with sample



Practical absorption coefficient, BS EN ISO 11654:1997

v3