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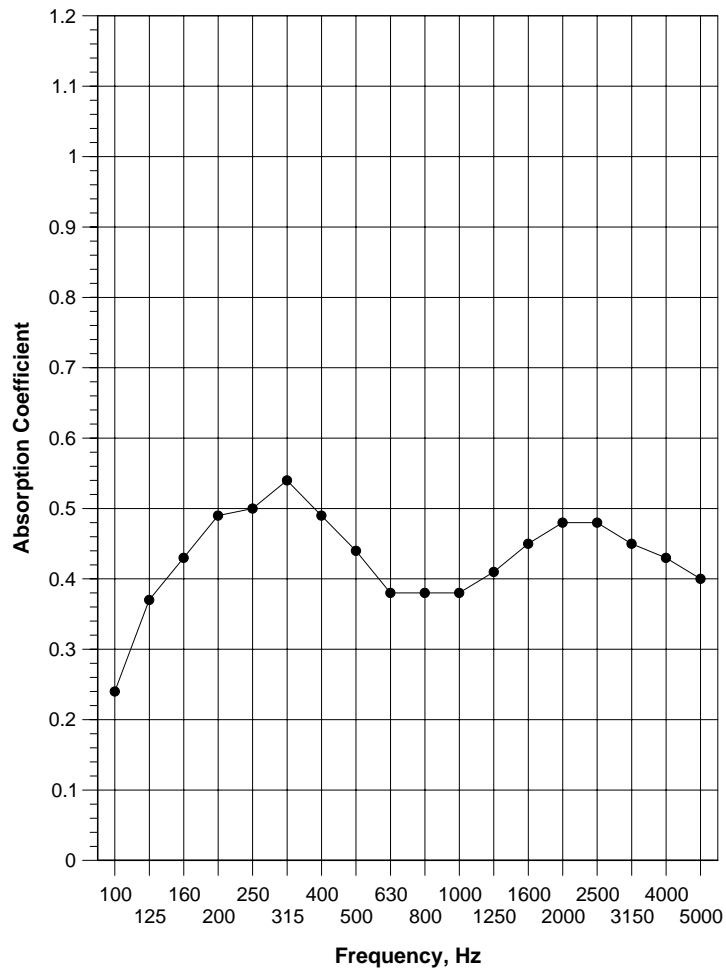
See SRL report C/07/5L/3924/R03 for full details

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

Client: Forticrete Ltd
Test Date: 20/12/2007
Empty Room: Temperature: 15.4 °C Humidity: 42 %RH Pressure: 1008 mbar
Room with Sample: Temperature: 15.4 °C Humidity: 42 %RH Pressure: 1008 mbar
Sample: 100mm Hi Lite
Description:
Sample Area: 12.18 m²
Cavity Depth: 0 mm
Chamber Volume: 300 m³

Sound Absorption Coefficient

Test 9				
Freq Hz	T1 sec	T2 sec	Absorp Coeff	Practical Absorp Coeff #
50*	4.01	3.19	0.26	
63*	4.21	3.27	0.27	n/a
80*	4.36	3.47	0.24	
100	6.14	4.49	0.24	
125	6.64	4.13	0.37	0.35
160	6.29	3.74	0.43	
200	6.75	3.70	0.49	
250	6.58	3.60	0.50	0.50
315	6.50	3.47	0.54	
400	6.04	3.47	0.49	
500	5.21	3.30	0.44	0.45
630	4.94	3.35	0.38	
800	5.26	3.50	0.38	
1000	5.66	3.68	0.38	0.40
1250	5.44	3.49	0.41	
1600	4.85	3.15	0.45	
2000	4.19	2.78	0.48	0.45
2500	3.58	2.50	0.48	
3150	2.86	2.17	0.45	
4000	2.23	1.80	0.43	0.45
5000	1.71	1.46	0.40	
6300*	1.24	1.12	0.35	
8000*	0.91	0.84	0.37	n/a
10000*	0.65	0.62	0.30	



α_w 0.45(L)
Class D
 Calculated to EN ISO 11654:1997
NRC 0.45
 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

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