

Data Sheet 9

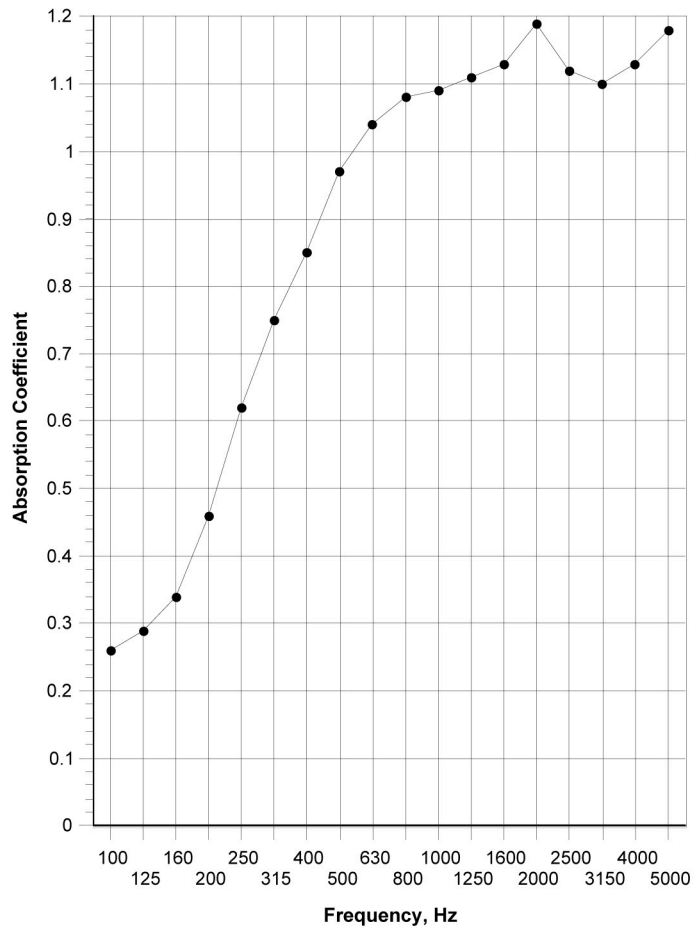
See SRL report C/06/5L/3541/1 for full details

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

Client: **Comfortex Ltd**
 Test Date: 04/08/2006
 Empty Room: Temperature: 21.1 °C Humidity: 67 %RH Pressure: 1003 mbar
 Room with Sample: Temperature: 21.1 °C Humidity: 67 %RH Pressure: 1003 mbar
 Sample: **AFW100**
 Description:
 Sample Area: 11.56 m²
 Cavity Depth: 0 mm
 Chamber Volume: 300 m³

Test 13				
Freq Hz	T1 sec	T2 sec	Absorp Coeff	Practical Absorp Coeff #
50*	4.16	3.63	0.15	
63*	4.04	3.47	0.17	n/a
80*	5.39	4.29	0.20	
100	8.56	5.58	0.26	
125	7.33	4.83	0.29	0.30
160	6.88	4.40	0.34	
200	7.23	4.02	0.46	
250	7.77	3.60	0.62	0.60
315	7.34	3.16	0.75	
400	6.41	2.78	0.85	
500	5.52	2.42	0.97	0.95
630	5.07	2.24	1.04	
800	5.36	2.25	1.08	
1000	5.75	2.30	1.09	1.00
1250	5.64	2.26	1.11	
1600	5.21	2.16	1.13	
2000	4.80	2.03	1.19	1.00
2500	4.22	1.98	1.12	
3150	3.58	1.84	1.10	
4000	3.05	1.67	1.13	1.00
5000	2.45	1.45	1.18	
6300*	1.87	1.23	1.16	
8000*	1.37	1.00	1.13	n/a
10000*	0.99	0.78	1.14	
α_w			0.90	
Class A				
Calculated to EN ISO 11654:1997				
NRC			0.95	
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				

Sound Absorption Coefficient



Practical absorption coefficient, BS EN ISO 11654:1997

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