

Data Sheet 10

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 **AFW45**

Description:

Sample Area: 11.56 m²

Cavity Depth: 0 mm

Chamber Volume: 300 m³

Test 14

Freq Hz	T1 sec	T2 sec	Absorp Coeff	Practical Absorp Coeff #
50*	4.16	3.91	0.06	
63*	4.04	3.97	0.02	n/a
80*	5.39	4.62	0.13	
100	8.56	6.35	0.17	
125	7.33	6.19	0.10	0.10
160	6.88	5.90	0.10	
200	7.23	5.57	0.17	
250	7.77	5.06	0.29	0.25
315	7.34	4.55	0.35	
400	6.41	3.96	0.40	
500	5.52	3.32	0.50	0.50
630	5.07	2.93	0.60	
800	5.36	2.91	0.66	
1000	5.75	2.96	0.68	0.70
1250	5.64	2.85	0.72	
1600	5.21	2.77	0.71	
2000	4.80	2.60	0.74	0.75
2500	4.22	2.33	0.80	
3150	3.58	2.05	0.87	
4000	3.05	1.78	0.98	1.00
5000	2.45	1.49	1.10	
6300*	1.87	1.26	1.08	
8000*	1.37	1.02	1.05	n/a
10000*	0.99	0.78	1.14	

α_w 0.50(H)

Class D

Calculated to EN ISO 11654:1997

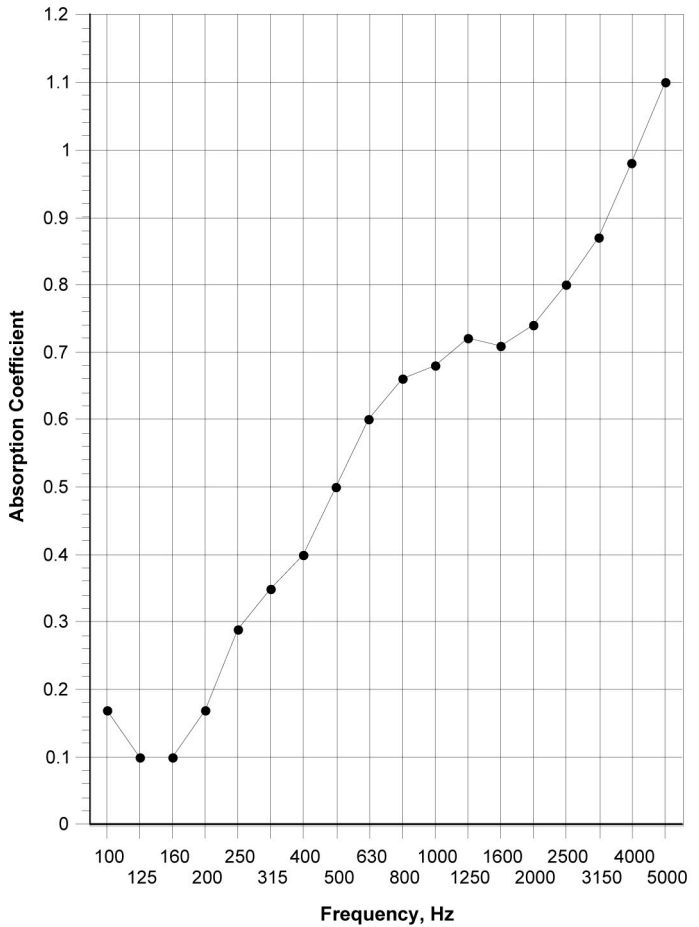
NRC 0.55

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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