

Data Sheet 2

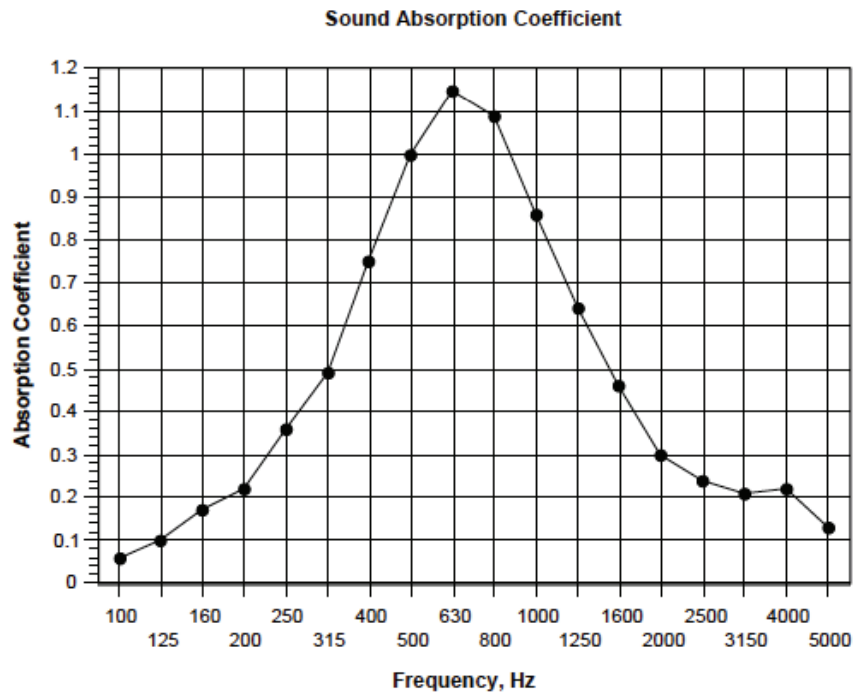
The Laboratory Measurement of Random Incidence Sound Absorption to BS EN ISO 354:2003

Client: **Echo Barrier**
 Test Date: 16/01/2012
 Empty Room: Temperature: 16.0 °C Humidity: 36 %RH Pressure: 1020 mbar
 Room with Sample: Temperature: 16.0 °C Humidity: 37 %RH Pressure: 1020 mbar
 Sample Description: **H3 Echo Barrier**

Mounting Method: A
 Sample Area: 10.62 m²
 Chamber Volume: 300 m³

Test 3

Freq Hz	T1 sec	T2 sec	Absorp Coeff	Practical Absorp Coeff #
50*	5.93	5.66	0.04	
63*	4.15	4.18	-0.01	n/a
80*	4.73	4.65	0.02	
100	6.08	5.65	0.06	
125	6.57	5.78	0.10	0.10
160	6.61	5.31	0.17	
200	6.96	5.19	0.22	
250	7.44	4.68	0.36	0.35
315	7.45	4.16	0.49	
400	7.03	3.26	0.75	
500	5.94	2.59	1.00	0.95
630	5.29	2.27	1.15	
800	5.86	2.45	1.09	
1000	6.27	2.88	0.86	0.85
1250	6.06	3.28	0.64	
1600	5.31	3.48	0.46	
2000	4.51	3.50	0.30	0.35
2500	3.77	3.18	0.24	
3150	2.96	2.65	0.21	
4000	2.30	2.11	0.22	0.20
5000	1.72	1.67	0.13	
6300*	1.12	1.15	-0.03	
8000*	0.92	0.97	-0.17	n/a
10000*	0.65	0.68	-0.21	



α_w 0.35(M)

Class D

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

v4.2