



Holbrook House, Little Waldingfield,
Sudbury, Suffolk CO10 0TH
Tel: (01787) 247595 Fax: 01787 248420
e-mail: srl@soundresearch.co.uk

Contract: C/21387

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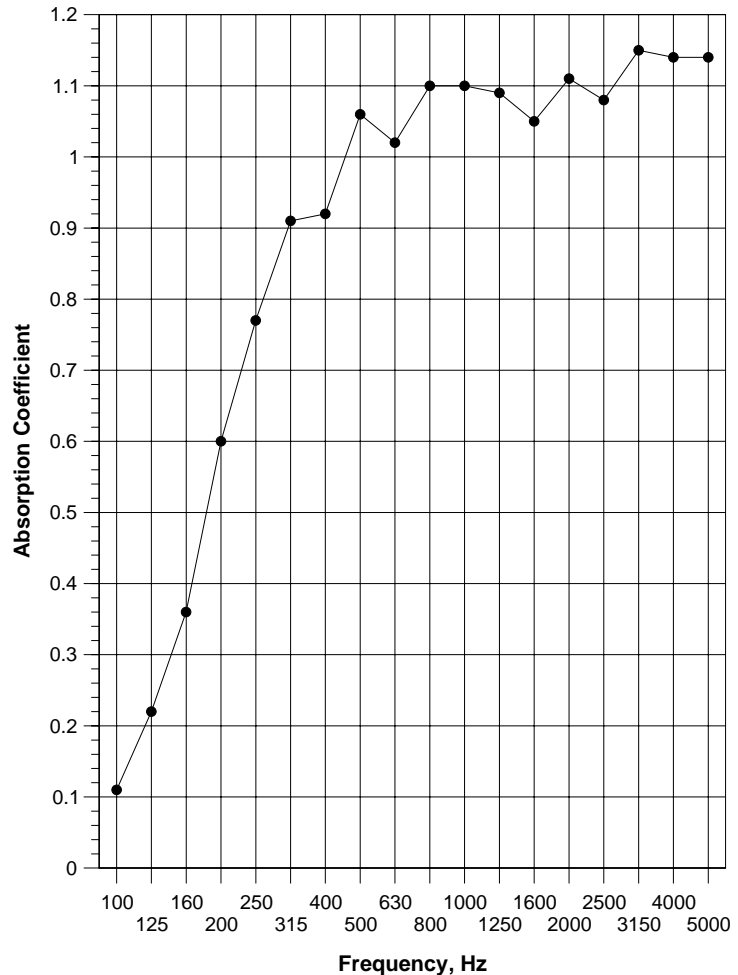
See SRL report C/21387/R01a for full details

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

Client: Rockfon
Test Date: 02/12/2010
Empty Room: Temperature: 17.5 °C Humidity: 34 %RH Pressure: 1003 mbar
Room with Sample: Temperature: 17.0 °C Humidity: 34 %RH Pressure: 1003 mbar
Sample: VertiQ 1200x1200x40mm
Description:
Mounting Method: A
Sample Area: 12.82 m²
Chamber Volume: 300 m³

Sound Absorption Coefficient

Test 26				
Freq Hz	T1 sec	T2 sec	Absorp Coeff	Practical Absorp Coeff #
50*	5.52	5.13	0.05	
63*	4.25	3.94	0.07	n/a
80*	4.79	4.43	0.06	
100	6.37	5.40	0.11	
125	7.07	5.02	0.22	0.25
160	6.92	4.20	0.36	
200	7.04	3.33	0.60	
250	7.06	2.91	0.77	0.75
315	7.25	2.65	0.91	
400	6.58	2.53	0.92	
500	5.69	2.20	1.06	1.00
630	5.22	2.17	1.02	
800	5.64	2.14	1.10	
1000	6.08	2.20	1.10	1.00
1250	5.84	2.18	1.09	
1600	5.02	2.10	1.05	
2000	4.30	1.90	1.11	1.00
2500	3.65	1.78	1.08	
3150	2.85	1.52	1.15	
4000	2.14	1.29	1.14	1.00
5000	1.60	1.07	1.14	
6300*	1.08	0.81	1.12	
8000*	0.86	0.68	1.11	n/a
10000*	0.62	0.51	1.27	
<i>A_w</i> 1.00				
Class A				
Calculated to EN ISO 11654:1997				
NRC 1.00				
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

v3.1