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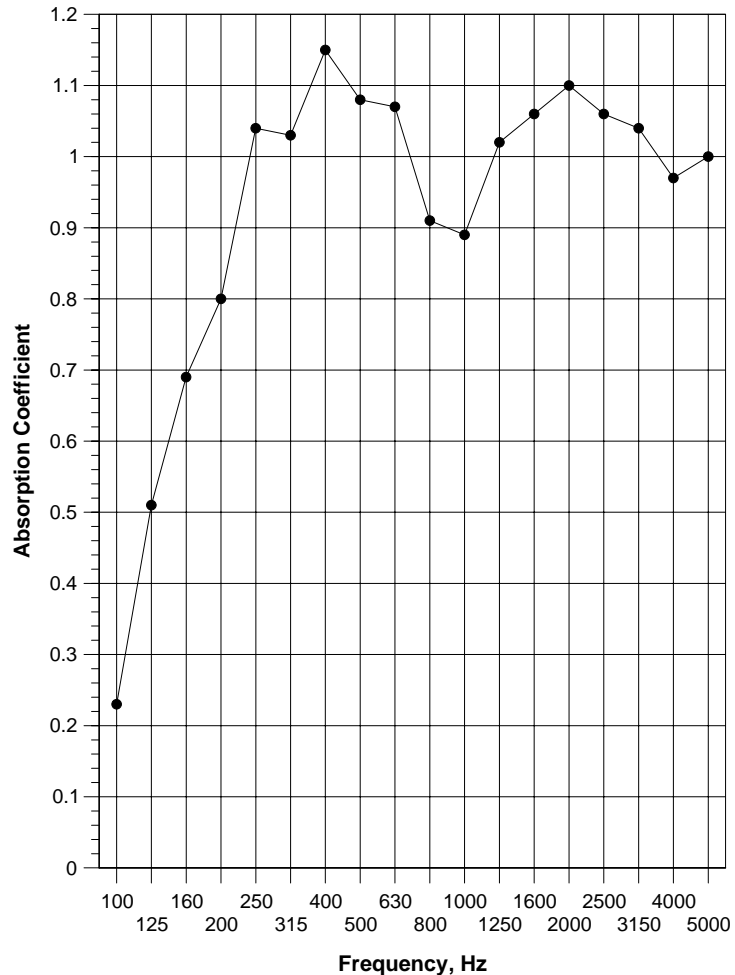
See SRL report C/09/5L/20958/R01 for full details

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

Client: Rockfon
Test Date: 02/10/2009
Empty Room: Temperature: 15.2 °C Humidity: 48 %RH Pressure: 1015 mbar
Room with Sample: Temperature: 15.9 °C Humidity: 50 %RH Pressure: 1015 mbar
Sample: Boxer 1200x600x25mm. Edge type A
Description:
Mounting Method: E- 210
Sample Area: 12.67 m²
Chamber Volume: 300 m³

Sound Absorption Coefficient

Test 5				
Freq Hz	T1 sec	T2 sec	Absorp Coeff	Practical Absorp Coeff #
50*	3.19	2.89	0.12	
63*	3.63	3.01	0.22	n/a
80*	4.33	3.50	0.21	
100	6.01	4.44	0.23	
125	7.07	3.65	0.51	0.50
160	7.24	3.14	0.69	
200	7.74	2.97	0.80	
250	8.19	2.55	1.04	0.95
315	7.57	2.50	1.03	
400	6.92	2.25	1.15	
500	5.81	2.20	1.08	1.00
630	5.56	2.18	1.07	
800	5.93	2.47	0.91	
1000	6.42	2.58	0.89	0.95
1250	6.34	2.36	1.02	
1600	5.69	2.22	1.06	
2000	5.02	2.07	1.10	1.00
2500	4.34	2.00	1.06	
3150	3.51	1.83	1.04	
4000	2.66	1.63	0.97	1.00
5000	2.05	1.38	1.00	
6300*	1.49	1.15	0.89	
8000*	1.10	0.92	0.87	n/a
10000*	0.79	0.72	0.71	
<i>A_w</i> 1.00				
Class A				
Calculated to EN ISO 11654:1997				
NRC 1.05				
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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