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Contract: C/22404

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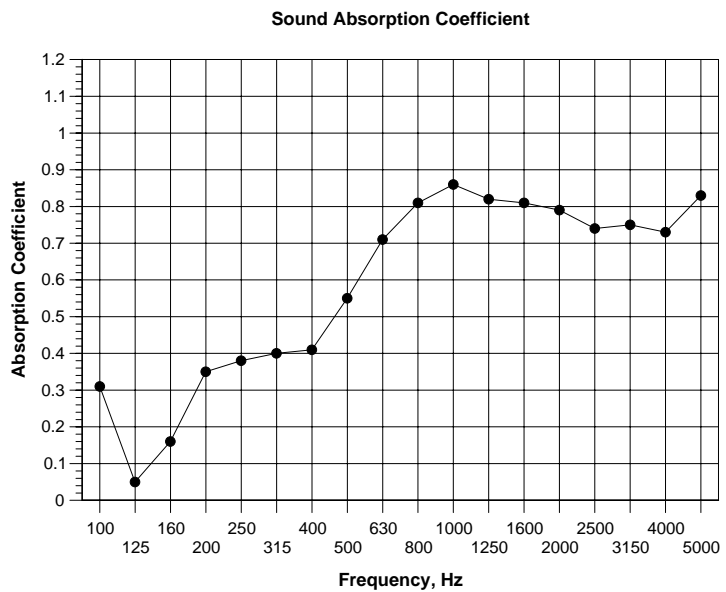
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See SRL report C/22404/T01a for full details

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

Client: Armstrong
Test Date: 24/01/2013
Empty Room: Temperature: 16.2 °C Humidity: 35 %RH Pressure: 1013 mbar
Room with Sample: Temperature: 16.0 °C Humidity: 35 %RH Pressure: 1013 mbar
Sample Description: Armstrong Optima Baffle Array
 400mm high x 40mm thick with baffles at 400mm row centres. Overall depth of construction 1000mm
Mounting Method: J
Sample Area: 10.08 m2
Chamber Volume: 300 m3

Test 6				
Freq Hz	T1 sec	T2 sec	Absorp Coeff	Practical Absorp Coeff #
50*	3.91	4.49	-0.16	
63*	4.85	5.55	-0.13	n/a
80*	5.03	4.80	0.05	
100	6.54	4.61	0.31	
125	5.82	5.50	0.05	0.15
160	6.21	5.13	0.16	
200	6.61	4.47	0.35	
250	6.79	4.42	0.38	0.40
315	6.49	4.21	0.40	
400	6.10	4.01	0.41	
500	5.23	3.27	0.55	0.55
630	4.89	2.84	0.71	
800	5.22	2.78	0.81	
1000	5.53	2.79	0.86	0.85
1250	5.25	2.78	0.82	
1600	4.39	2.53	0.81	
2000	3.84	2.35	0.79	0.80
2500	3.24	2.16	0.74	
3150	2.64	1.87	0.75	
4000	2.07	1.57	0.73	0.75
5000	1.62	1.26	0.83	
6300*	1.15	0.94	0.91	
8000*	0.90	0.77	0.88	n/a
10000*	0.65	0.56	1.17	



α_w 0.60(MH)
 Class C
 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