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Contract: C/22279

Page: 1 of 1

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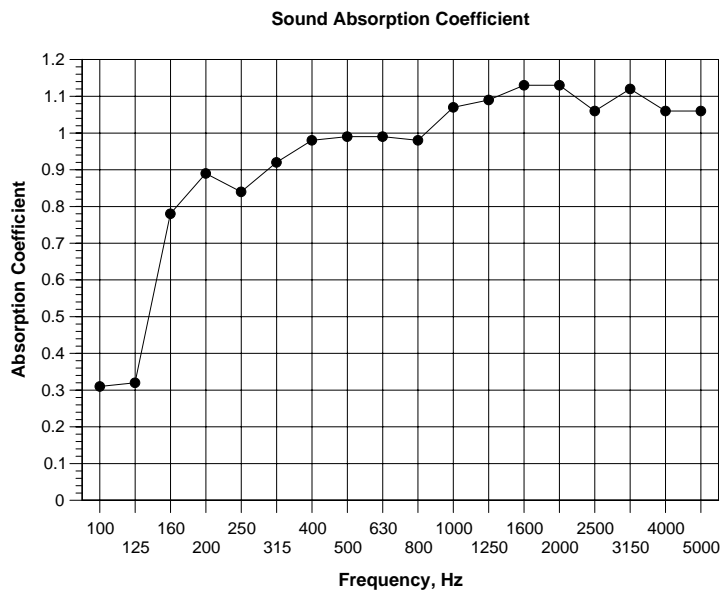
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See SRL report C/22279/R01 for full details

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

Client: Saint Gobain Eurocoustic
Test Date: 20/09/2012
Empty Room: Temperature: 15.3 °C Humidity: 54 %RH Pressure: 1014 mbar
Room with Sample: Temperature: 15.4 °C Humidity: 55 %RH Pressure: 1014 mbar
Sample Description: Tonga A 40mm 1200x600x40mm ceiling tiles
Mounting Method: E-200
Sample Area: 12.96 m2
Chamber Volume: 300 m3

Test 2				
Freq Hz	T1 sec	T2 sec	Absorp Coeff	Practical Absorp Coeff #
50*	6.11	3.98	0.33	
63*	5.27	3.33	0.42	n/a
80*	5.21	4.00	0.22	
100	7.67	4.72	0.31	
125	7.57	4.61	0.32	0.45
160	7.31	2.91	0.78	
200	7.42	2.70	0.89	
250	7.20	2.77	0.84	0.90
315	7.06	2.59	0.92	
400	6.54	2.42	0.98	
500	5.68	2.28	0.99	1.00
630	5.18	2.19	0.99	
800	5.71	2.29	0.98	
1000	6.22	2.25	1.07	1.00
1250	6.11	2.20	1.09	
1600	5.59	2.09	1.13	
2000	5.02	2.00	1.13	1.00
2500	4.36	1.96	1.06	
3150	3.54	1.73	1.12	
4000	2.85	1.59	1.06	1.00
5000	2.23	1.38	1.06	
6300*	1.48	1.07	1.01	
8000*	1.18	0.91	1.00	n/a
10000*	0.83	0.71	0.84	



α_w 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

v4.2