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Contract: C/22279

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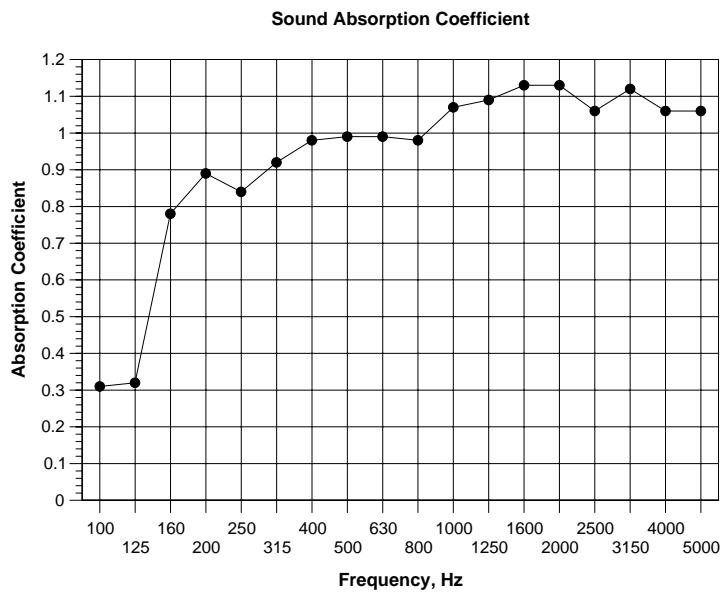
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See SRL report C/22279/R01 for full details

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	



$\alpha_w$  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