



INVESTOR IN PEOPLE

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See SRL report C/22171/R01a for full details

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

Client: Saint Gobain Eurocooustic

Test Date: 29/05/2012

Empty Room: Temperature: 19.5 °C Humidity: 58 %RH Pressure: 1011 mbar

Room with Sample: Temperature: 20.0 °C Humidity: 58 %RH Pressure: 1011 mbar

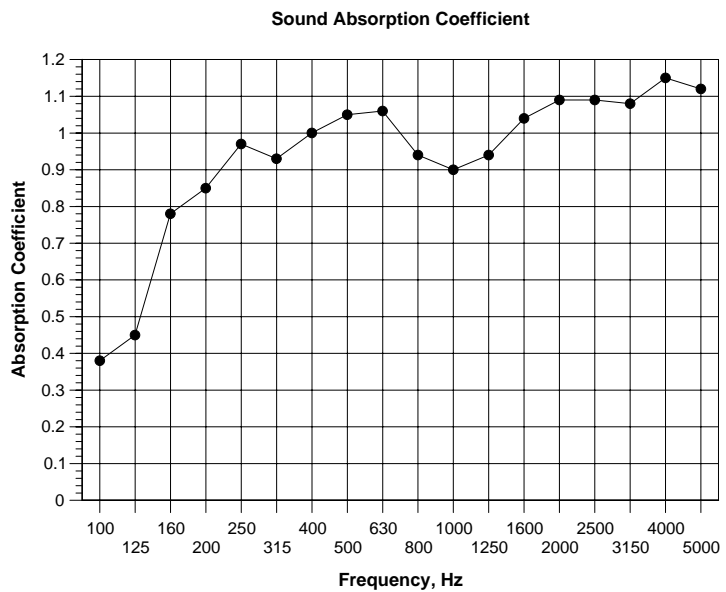
Sample Description: Tonga A /600 x 600 x 22 mm /ceiling tiles

Mounting Method: E-200

Sample Area: 12.96 m²

Chamber Volume: 300 m³

Test 3				
Freq Hz	T1 sec	T2 sec	Absorp Coeff	Practical Absorp Coeff #
50*	3.96	3.43	0.14	
63*	5.17	3.31	0.41	n/a
80*	6.15	4.10	0.30	
100	7.17	4.15	0.38	
125	7.55	3.95	0.45	0.55
160	6.95	2.83	0.78	
200	6.93	2.69	0.85	
250	7.56	2.55	0.97	0.90
315	7.44	2.61	0.93	
400	6.94	2.42	1.00	
500	5.76	2.19	1.05	1.00
630	5.33	2.12	1.06	
800	5.75	2.35	0.94	
1000	6.28	2.50	0.90	0.95
1250	6.19	2.41	0.94	
1600	5.58	2.18	1.04	
2000	5.15	2.06	1.09	1.00
2500	4.66	1.97	1.09	
3150	4.01	1.86	1.08	
4000	3.29	1.64	1.15	1.00
5000	2.64	1.48	1.12	
6300*	1.97	1.24	1.14	
8000*	1.59	1.06	1.21	n/a
10000*	1.12	0.81	1.33	



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