



INVESTOR IN PEOPLE

Holbrook House, Little Waldingfield,
Sudbury, Suffolk CO10 0TH
Tel: (01787) 247595
e-mail: srl@srltsl.com

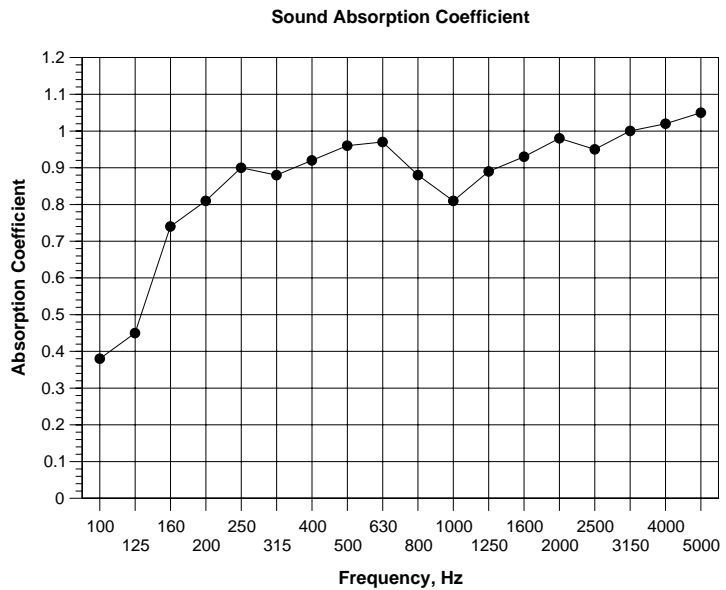
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See SRL report C/22171/R01a for full details

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: 20.2 °C Humidity: 51 %RH Pressure: 1011 mbar
Sample Description: Minerval E15 / 600 x 600x 15 mm/ceiling tiles
Mounting Method: E- 200
Sample Area: 12.96 m2
Chamber Volume: 300 m3

Test 6				
Freq Hz	T1 sec	T2 sec	Absorp Coeff	Practical Absorp Coeff #
50*	3.96	3.36	0.17	
63*	5.17	3.35	0.39	n/a
80*	6.15	4.28	0.26	
100	7.17	4.15	0.38	
125	7.55	3.96	0.45	0.50
160	6.95	2.92	0.74	
200	6.93	2.76	0.81	
250	7.56	2.68	0.90	0.85
315	7.44	2.70	0.88	
400	6.94	2.56	0.92	
500	5.76	2.32	0.96	0.95
630	5.33	2.23	0.97	
800	5.75	2.44	0.88	
1000	6.28	2.66	0.81	0.85
1250	6.19	2.49	0.89	
1600	5.58	2.32	0.93	
2000	5.15	2.18	0.98	0.95
2500	4.66	2.11	0.95	
3150	4.01	1.90	1.00	
4000	3.29	1.69	1.02	1.00
5000	2.64	1.47	1.05	
6300*	1.97	1.25	0.97	
8000*	1.59	1.07	0.95	n/a
10000*	1.12	0.82	0.94	



α_w 0.95
Class A
 Calculated to EN ISO 11654:1997
NRC 0.90
 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