

Confidential

See SRL report C/22760/T01 for full details

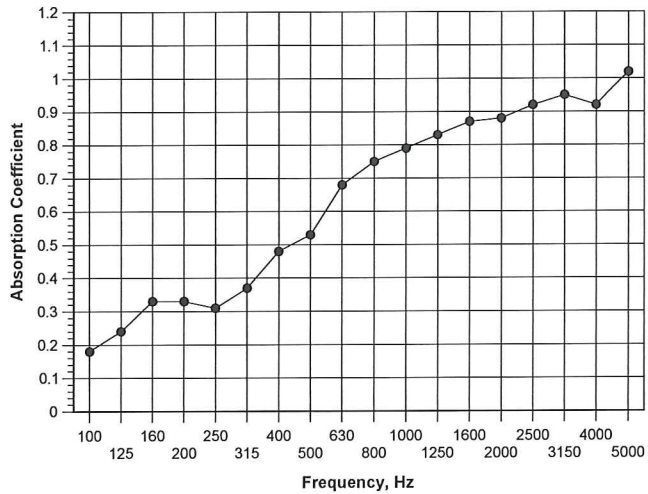
The Laboratory Measurement of Random Incidence Sound Absorption to BS EN ISO 354:2003

Client: Armstrong
 Test Date: 28/02/2014
 Empty Room: Temperature: 16.4 °C Humidity: 57 %RH Pressure: 988 mbar
 Room with Sample: Temperature: 16.3 °C Humidity: 55 %RH Pressure: 989 mbar
 Sample Description: Ultima+ dB 1200x600x19mm
 Mounting Method: E-200
 Sample Area: 12.96 m²
 Chamber Volume: 300 m³

Test 4

Freq Hz	T1 sec	T2 sec	Absorp Coeff	Practical Absorp Coeff #
50*	5.34	3.73	0.30	
63*	5.18	3.23	0.44	n/a
80*	6.68	3.62	0.48	
100	6.51	4.93	0.18	
125	7.38	4.99	0.24	0.25
160	6.46	4.10	0.33	
200	6.87	4.29	0.33	
250	6.83	4.39	0.31	0.35
315	6.68	4.03	0.37	
400	6.48	3.55	0.48	
500	5.40	3.06	0.53	0.55
630	5.21	2.68	0.68	
800	5.56	2.63	0.75	
1000	5.97	2.65	0.79	0.80
1250	5.69	2.52	0.83	
1600	5.05	2.33	0.87	
2000	4.62	2.21	0.88	0.90
2500	4.16	2.05	0.92	
3150	3.44	1.83	0.95	
4000	2.78	1.64	0.92	0.95
5000	2.13	1.33	1.02	
6300*	1.52	1.02	1.15	
8000*	1.23	0.89	1.08	n/a
10000*	0.87	0.66	1.25	

Sound Absorption Coefficient



a_w 0.60(H)

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

v4.3