

Data Sheet 1

See SRL report C/23735/T01 for full details

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

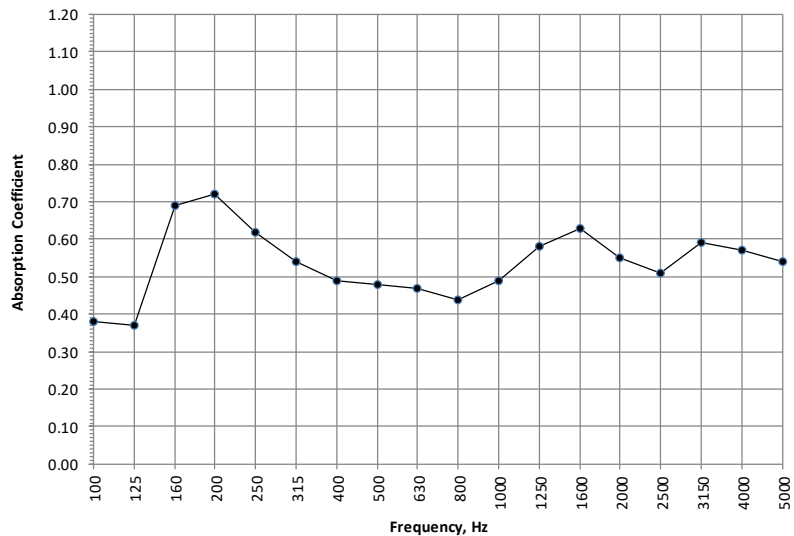
Client: Colinwell Concrete
 Test Date: 30/05/2017
 Empty Room: Temperature: 19.4 °C Humidity: 70 %RH Pressure: 1006 mbar
 Room with Sample: Temperature: 19.5 °C Humidity: 69 %RH Pressure: 1007 mbar
 Sample Description: Colinwell AcoustaTex Masonry Blocks

Mounting Method: A
 Sample Area: 10.74 m²
 Chamber Volume: 300 m³

Test 2

Freq Hz	T1 sec	T2 sec	Absorp Coeff α _s	Practical Absorp Coeff #
50*	4.34	4.26	0.02	
63*	4.71	3.85	0.21	n/a
80*	6.00	4.55	0.24	
100	6.39	4.15	0.38	
125	7.06	4.48	0.37	0.50
160	7.19	3.41	0.69	
200	7.16	3.35	0.72	
250	7.97	3.79	0.62	0.65
315	7.42	3.91	0.54	
400	6.91	3.96	0.49	
500	6.31	3.76	0.48	0.50
630	5.60	3.54	0.47	
800	5.75	3.68	0.44	
1000	6.09	3.65	0.49	0.50
1250	5.80	3.32	0.58	
1600	5.30	3.04	0.63	
2000	5.00	3.10	0.55	0.55
2500	4.53	2.99	0.51	
3150	3.90	2.58	0.59	
4000	3.23	2.29	0.57	0.55
5000	2.63	1.99	0.54	
6300*	1.95	1.59	0.51	
8000*	1.56	1.34	0.46	n/a
10000*	1.12	0.98	0.55	

Sound Absorption Coefficient



α_w 0.55(L)

Class D

Calculated to EN ISO 11654:1997

NRC 0.55

Calculated to ASTM C423-01

* Denotes frequencies outside the range covered by BS EN ISO 354:2003

T1, empty room reverberation time
 T2, room reverberation time with sample