

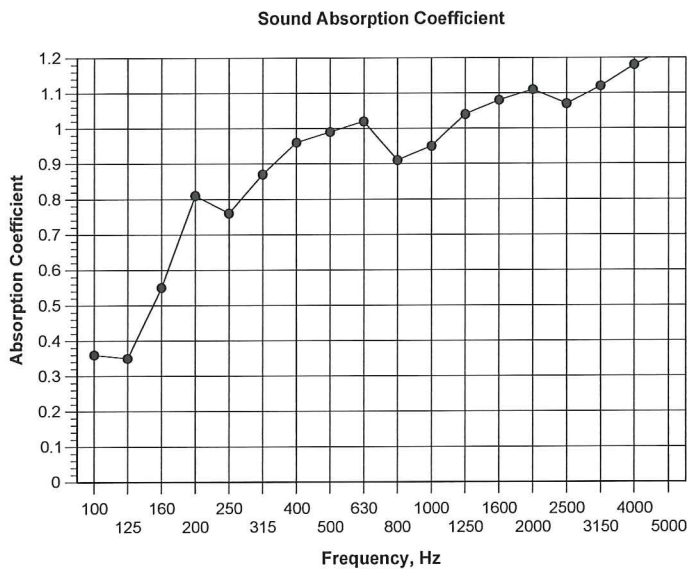
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The Laboratory Measurement of Random Incidence Sound Absorption to BS EN ISO 354:2003

Client: Armstrong  
 Test Date: 18/01/2014  
 Empty Room: Temperature: 17.1 °C Humidity: 64 %RH Pressure: 985 mbar  
 Room with Sample: Temperature: 16.9 °C Humidity: 55 %RH Pressure: 985 mbar  
 Sample Description: Ultima+ OP 600x600x20mm  
 Mounting Method: E-200  
 Sample Area: 12.96 m<sup>2</sup>  
 Chamber Volume: 300 m<sup>3</sup>

Test 4				
Freq Hz	T1 sec	T2 sec	Absorp Coeff	Practical Absorp Coeff #
50*	5.55	4.41	0.17	
63*	4.47	3.05	0.39	n/a
80*	6.25	3.88	0.37	
100	7.58	4.39	0.36	
125	7.77	4.51	0.35	0.40
160	6.86	3.41	0.55	
200	6.93	2.78	0.81	
250	7.58	2.99	0.76	0.80
315	7.12	2.68	0.87	
400	6.59	2.46	0.96	
500	5.56	2.25	0.99	1.00
630	5.12	2.14	1.02	
800	5.50	2.36	0.91	
1000	5.99	2.39	0.95	0.95
1250	5.70	2.21	1.04	
1600	5.19	2.08	1.08	
2000	4.77	1.96	1.11	1.00
2500	4.35	1.91	1.07	
3150	3.71	1.72	1.12	
4000	3.00	1.49	1.18	1.00
5000	2.46	1.30	1.23	
6300*	1.82	1.05	1.30	
8000*	1.37	0.84	1.41	n/a
10000*	1.00	0.67	1.38	



$a_w$  1.00  
 Class A  
 Calculated to EN ISO 11654:1997  
 NRC 0.95  
 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