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

Client: fade® Acoustic Ceilings

Test Date: 11/11/2016

Empty Room: **Temperature:** 15.3 °C **Humidity:** 52 %RH **Pressure:** 1013 mbar

Room with Sample: **Temperature:** 15.3 °C **Humidity:** 50 %RH **Pressure:** 1014 mbar

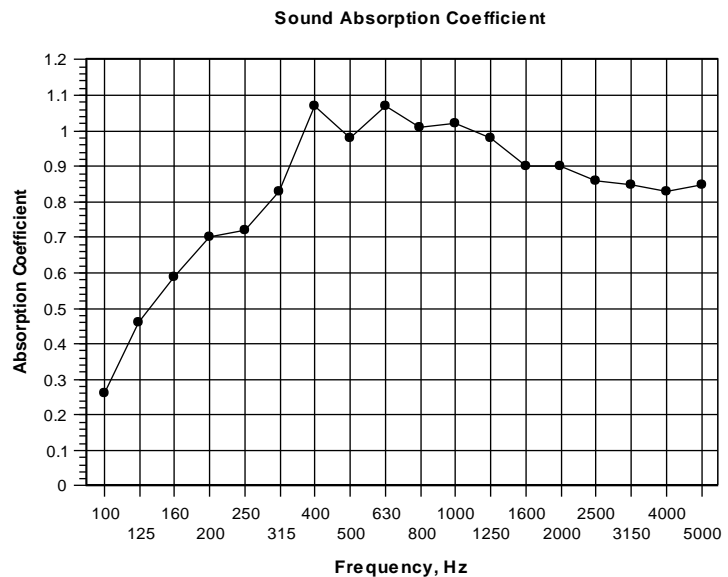
Sample Description: 50mm fade® Acoustic Plaster - PLUS+

Mounting Method: A

Sample Area: 11.95 m²

Chamber Volume: 300 m³

Test 8				
Freq Hz	T1 sec	T2 sec	Absorp Coeff	Practical Absorp Coeff #
50*	4.12	4.04	0.02	
63*	4.42	4.05	0.08	n/a
80*	5.66	4.22	0.25	
100	6.42	4.55	0.26	
125	6.85	3.87	0.46	0.45
160	6.63	3.39	0.59	
200	6.72	3.13	0.70	
250	7.09	3.16	0.72	0.75
315	7.13	2.92	0.83	
400	6.44	2.40	1.07	
500	5.68	2.41	0.98	1.00
630	5.28	2.22	1.07	
800	5.64	2.35	1.01	
1000	6.04	2.40	1.02	1.00
1250	5.71	2.41	0.98	
1600	5.20	2.42	0.90	
2000	4.67	2.29	0.90	0.90
2500	4.10	2.18	0.86	
3150	3.38	1.96	0.85	
4000	2.65	1.70	0.83	0.85
5000	2.11	1.44	0.85	
6300*	1.42	1.08	0.83	
8000*	1.13	0.91	0.77	n/a
10000*	0.81	0.67	0.91	



a_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

v4.3



Richard Calvert

Approved Signatory

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Richard Critchlow

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