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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

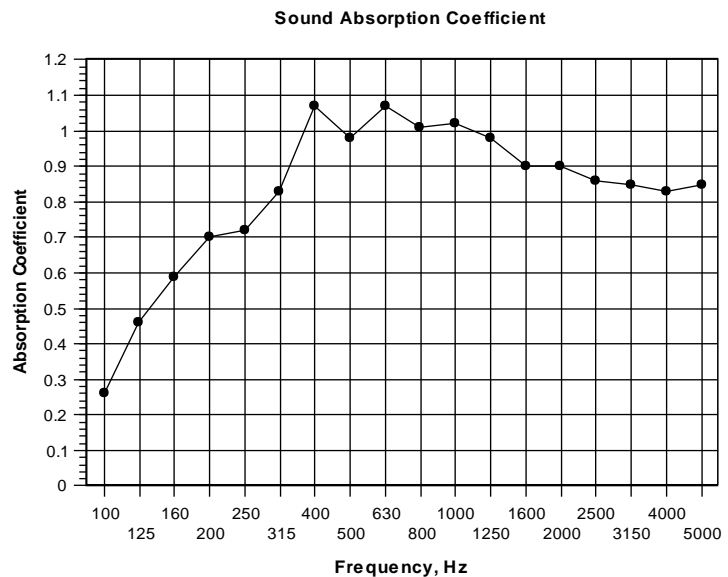
**Sample Description:** 50mm (2") fade® Acoustic Plaster - PLUS+

**Mounting Method:** A

**Sample Area:** 11.95 m<sup>2</sup>

**Chamber Volume:** 300 m<sup>3</sup>

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**

Deputy Technical Manager