

Confidential

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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:** 15.4 °C **Humidity:** 52 %RH **Pressure:** 1013 mbar

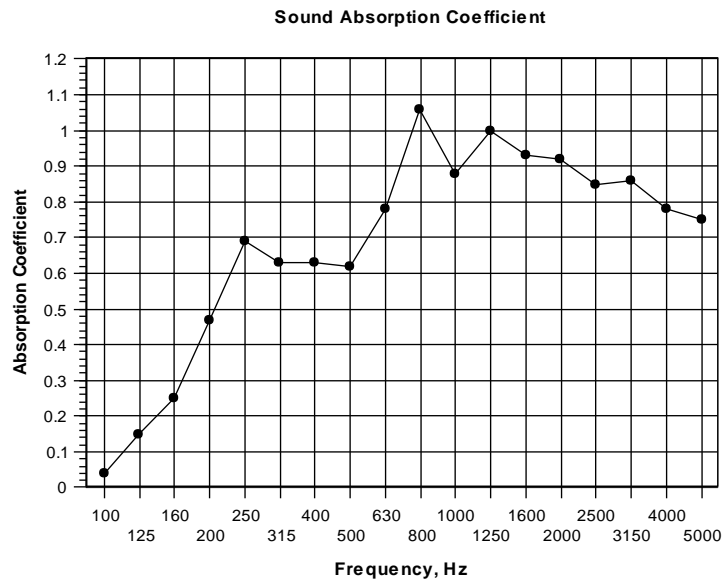
**Sample Description:** 25mm fade® Acoustic Plaster - PLUS+

**Mounting Method:** A

**Sample Area:** 13.18 m<sup>2</sup>

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

Test 2				
Freq Hz	T1 sec	T2 sec	Absorp Coeff	Practical Absorp Coeff #
50*	4.12	4.02	0.02	
63*	4.42	4.34	0.02	n/a
80*	5.66	5.21	0.06	
100	6.42	6.04	0.04	
125	6.85	5.33	0.15	0.15
160	6.63	4.55	0.25	
200	6.72	3.63	0.47	
250	7.09	3.05	0.69	0.60
315	7.13	3.23	0.63	
400	6.44	3.06	0.63	
500	5.68	2.91	0.62	0.70
630	5.28	2.49	0.78	
800	5.64	2.16	1.06	
1000	6.04	2.48	0.88	1.00
1250	5.71	2.25	1.00	
1600	5.20	2.26	0.93	
2000	4.67	2.16	0.92	0.90
2500	4.10	2.11	0.85	
3150	3.38	1.89	0.86	
4000	2.65	1.70	0.78	0.80
5000	2.11	1.48	0.75	
6300*	1.42	1.11	0.73	
8000*	1.13	0.93	0.71	n/a
10000*	0.81	0.70	0.73	



$\alpha_w$  0.80

**Class B**

Calculated to EN ISO 11654:1997

**NRC 0.80**

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



**Richard Critchlow**

Deputy Technical Manager

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

**Client:** CMS Danskin Acoustics

**Test Date:** 11/11/2016

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

**Room with Sample:** **Temperature:** 15.2 °C **Humidity:** 51 %RH **Pressure:** 1013 mbar

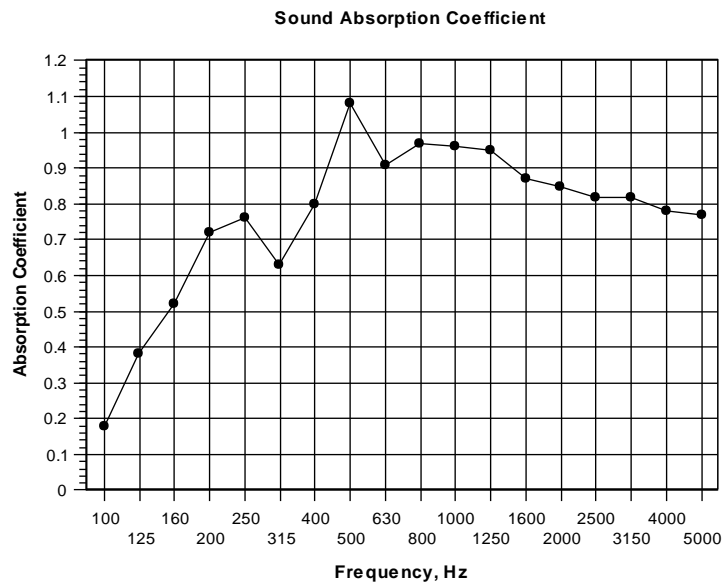
**Sample Description:** 40mm Superfade Albusplus One Mantle

**Mounting Method:** A

**Sample Area:** 13.18 m<sup>2</sup>

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

Test 3				
Freq Hz	T1 sec	T2 sec	Absorp Coeff	Practical Absorp Coeff #
50*	4.12	4.12	0.00	
63*	4.42	4.27	0.03	n/a
80*	5.66	4.35	0.20	
100	6.42	4.92	0.18	
125	6.85	4.01	0.38	0.35
160	6.63	3.44	0.52	
200	6.72	2.91	0.72	
250	7.09	2.89	0.76	0.70
315	7.13	3.22	0.63	
400	6.44	2.69	0.80	
500	5.68	2.14	1.08	0.95
630	5.28	2.30	0.91	
800	5.64	2.27	0.97	
1000	6.04	2.36	0.96	0.95
1250	5.71	2.32	0.95	
1600	5.20	2.33	0.87	
2000	4.67	2.25	0.85	0.85
2500	4.10	2.14	0.82	
3150	3.38	1.92	0.82	
4000	2.65	1.69	0.78	0.80
5000	2.11	1.45	0.77	
6300*	1.42	1.09	0.75	
8000*	1.13	0.90	0.78	n/a
10000*	0.81	0.68	0.80	



*A<sub>w</sub>* 0.90

Class A

Calculated to EN ISO 11654:1997

NRC 0.90

Calculated to ASTM C 423-01

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

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**Client:** CMS Danskin Acoustics

**Test Date:** 11/11/2016

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

**Room with Sample:** **Temperature:** 15.1 °C **Humidity:** 50 %RH **Pressure:** 1014 mbar

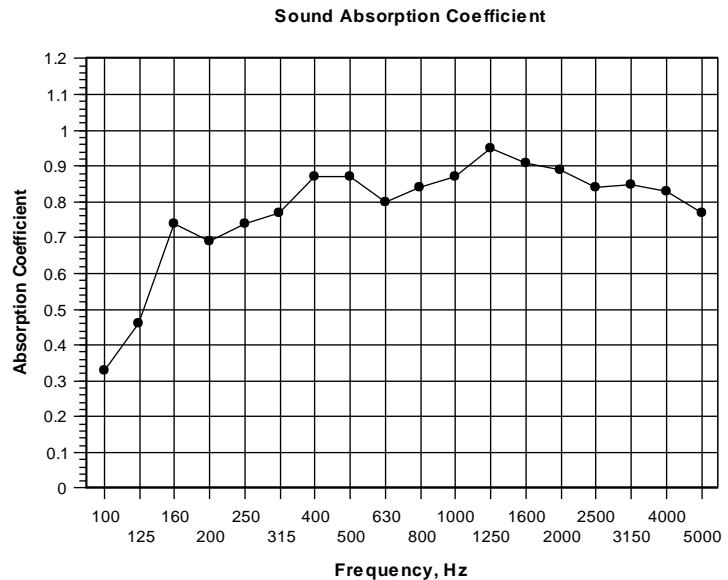
**Sample Description:** 40mm Superfade Albusplus One Mantle

**Mounting Method:** E-200

**Sample Area:** 13.28 m<sup>2</sup>

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

Test 5				
Freq Hz	T1 sec	T2 sec	Absorp Coeff	Practical Absorp Coeff #
50*	4.12	3.52	0.15	
63*	4.42	3.12	0.35	n/a
80*	5.66	2.93	0.60	
100	6.42	4.08	0.33	
125	6.85	3.69	0.46	0.50
160	6.63	2.84	0.74	
200	6.72	2.96	0.69	
250	7.09	2.93	0.74	0.75
315	7.13	2.85	0.77	
400	6.44	2.56	0.87	
500	5.68	2.42	0.87	0.85
630	5.28	2.45	0.80	
800	5.64	2.46	0.84	
1000	6.04	2.48	0.87	0.90
1250	5.71	2.31	0.95	
1600	5.20	2.27	0.91	
2000	4.67	2.18	0.89	0.90
2500	4.10	2.10	0.84	
3150	3.38	1.88	0.85	
4000	2.65	1.63	0.83	0.80
5000	2.11	1.43	0.77	
6300*	1.42	1.08	0.73	
8000*	1.13	0.90	0.71	n/a
10000*	0.81	0.67	0.79	



$\alpha_w$  0.90

Class A

Calculated to EN ISO 11654:1997

NRC 0.85

Calculated to ASTM C 423-01

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T1, empty room reverberation time  
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The Laboratory Measurement of Random Incidence Sound Absorption to BS EN ISO 354:2003

**Client:** CMS Danskin Acoustic

**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

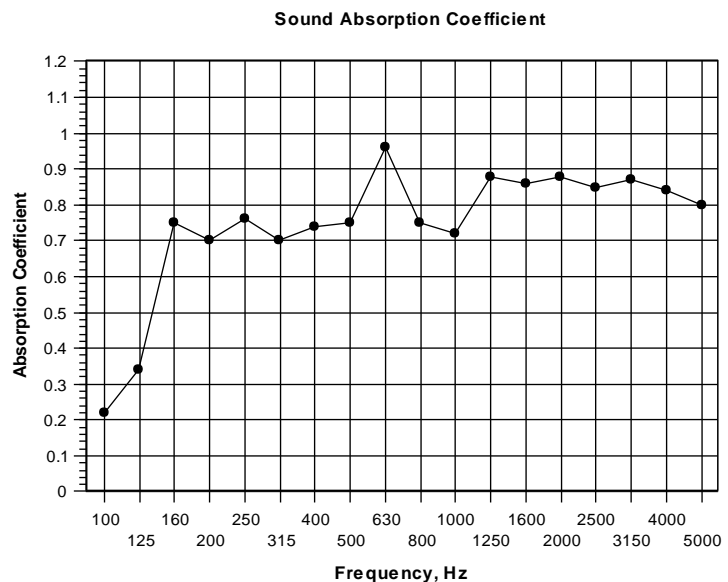
**Sample Description:** 25mm Superfade Albusplus One Mantle

**Mounting Method:** E-200

**Sample Area:** 13.28 m<sup>2</sup>

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

Test 7				
Freq Hz	T1 sec	T2 sec	Absorp Coeff	Practical Absorp Coeff #
50*	4.12	3.74	0.09	
63*	4.42	3.81	0.13	n/a
80*	5.66	3.35	0.45	
100	6.42	4.65	0.22	
125	6.85	4.19	0.34	0.45
160	6.63	2.81	0.75	
200	6.72	2.94	0.70	
250	7.09	2.87	0.76	0.70
315	7.13	3.03	0.70	
400	6.44	2.81	0.74	
500	5.68	2.63	0.75	0.80
630	5.28	2.22	0.96	
800	5.64	2.63	0.75	
1000	6.04	2.77	0.72	0.80
1250	5.71	2.41	0.88	
1600	5.20	2.34	0.86	
2000	4.67	2.20	0.88	0.85
2500	4.10	2.09	0.85	
3150	3.38	1.86	0.87	
4000	2.65	1.63	0.84	0.85
5000	2.11	1.42	0.80	
6300*	1.42	1.08	0.75	
8000*	1.13	0.89	0.78	n/a
10000*	0.81	0.66	0.90	



$\alpha_w$  0.85

**Class B**

Calculated to EN ISO 11654:1997

**NRC 0.80**

Calculated to ASTM C 423-01

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**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

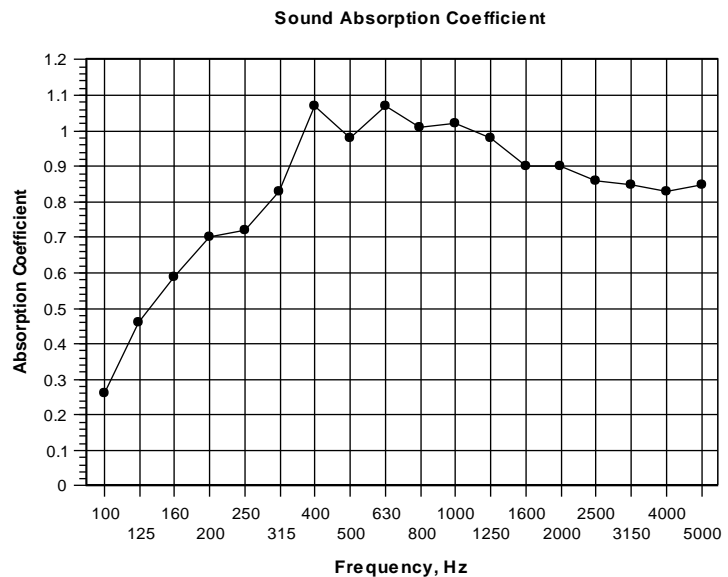
**Sample Description:** 50mm Superfade Albusplus One Mantle

**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

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