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

Client: CMS Danskin Ltd

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

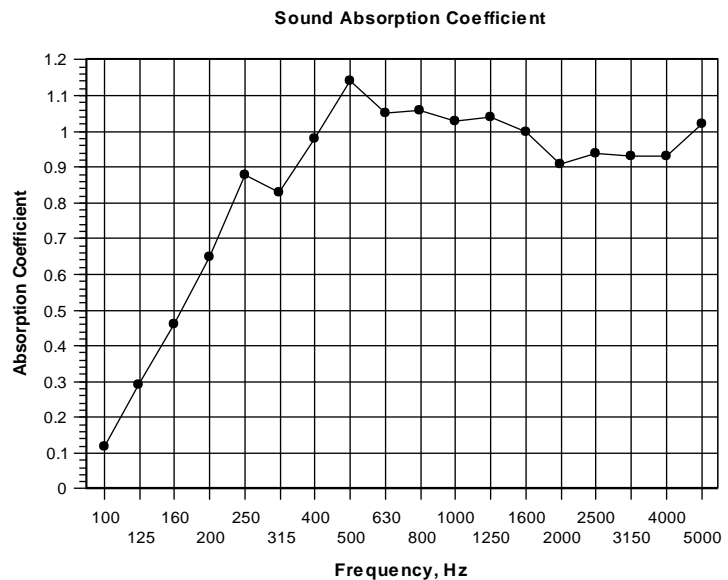
Sample Description: 40mm Superfade Albus One Mantle

Mounting Method: A

Sample Area: 12.96 m²

Chamber Volume: 300 m³

Test 4				
Freq Hz	T1 sec	T2 sec	Absorp Coeff	Practical Absorp Coeff #
50*	4.12	4.12	0.00	
63*	4.42	4.23	0.04	n/a
80*	5.66	4.76	0.13	
100	6.42	5.30	0.12	
125	6.85	4.49	0.29	0.30
160	6.63	3.67	0.46	
200	6.72	3.10	0.65	
250	7.09	2.67	0.88	0.80
315	7.13	2.78	0.83	
400	6.44	2.40	0.98	
500	5.68	2.09	1.14	1.00
630	5.28	2.13	1.05	
800	5.64	2.18	1.06	
1000	6.04	2.27	1.03	1.00
1250	5.71	2.22	1.04	
1600	5.20	2.18	1.00	
2000	4.67	2.19	0.91	0.95
2500	4.10	2.02	0.94	
3150	3.38	1.83	0.93	
4000	2.65	1.59	0.93	0.95
5000	2.11	1.33	1.02	
6300*	1.42	1.03	0.96	
8000*	1.13	0.87	0.94	n/a
10000*	0.81	0.65	1.07	



α_w 1.00

Class A

Calculated to EN ISO 11654:1997

NRC 1.00

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 Acoustic

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:** 50 %RH **Pressure:** 1014 mbar

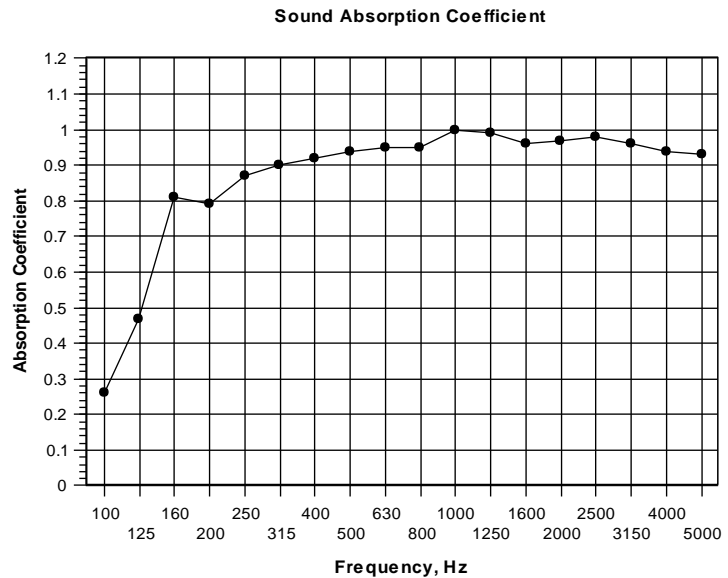
Sample Description: 40mm Superfade Albus One Mantle

Mounting Method: E-200

Sample Area: 13.28 m²

Chamber Volume: 300 m³

Test 6				
Freq Hz	T1 sec	T2 sec	Absorp Coeff	Practical Absorp Coeff #
50*	4.12	3.52	0.15	
63*	4.42	3.27	0.29	n/a
80*	5.66	2.87	0.63	
100	6.42	4.40	0.26	
125	6.85	3.64	0.47	0.50
160	6.63	2.70	0.81	
200	6.72	2.74	0.79	
250	7.09	2.65	0.87	0.85
315	7.13	2.59	0.90	
400	6.44	2.47	0.92	
500	5.68	2.32	0.94	0.95
630	5.28	2.23	0.95	
800	5.64	2.29	0.95	
1000	6.04	2.28	1.00	1.00
1250	5.71	2.25	0.99	
1600	5.20	2.20	0.96	
2000	4.67	2.08	0.97	0.95
2500	4.10	1.95	0.98	
3150	3.38	1.78	0.96	
4000	2.65	1.56	0.94	0.95
5000	2.11	1.35	0.93	
6300*	1.42	1.01	0.98	
8000*	1.13	0.86	0.91	n/a
10000*	0.81	0.64	1.06	



α_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



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