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

Client: S.A.C. Silent AG & Knauf AMF GmbH & Co. KG

Test Date: 25/07/2016

Empty Room: **Temperature:** 21.9 °C **Humidity:** 61 %RH **Pressure:** 1011 mbar

Room with Sample: **Temperature:** 22.3 °C **Humidity:** 60 %RH **Pressure:** 1011 mbar

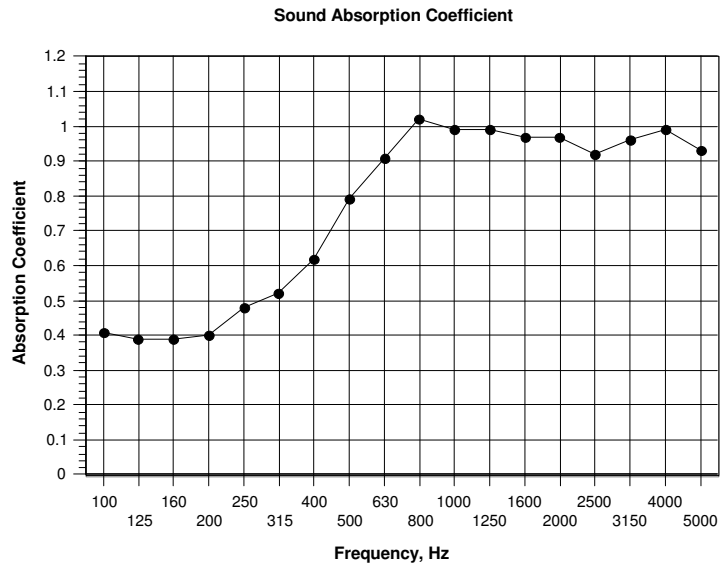
Sample Description: s.a.c. Grey-Line System 1600x580x29mm

Mounting Method: E-200

Sample Area: 10.8 m²

Chamber Volume: 300 m³

Test 2				
Freq Hz	T1 sec	T2 sec	Absorp Coeff	Practical Absorp Coeff #
50*	4.33	3.79	0.15	
63*	4.61	2.70	0.68	n/a
80*	6.16	4.07	0.37	
100	7.51	4.46	0.41	
125	7.27	4.45	0.39	0.40
160	7.68	4.61	0.39	
200	7.57	4.49	0.40	
250	7.87	4.26	0.48	0.45
315	7.98	4.15	0.52	
400	7.12	3.57	0.62	
500	6.12	2.94	0.79	0.75
630	5.48	2.59	0.91	
800	5.78	2.49	1.02	
1000	6.16	2.60	0.99	1.00
1250	5.85	2.54	0.99	
1600	5.39	2.48	0.97	
2000	5.03	2.40	0.97	0.95
2500	4.50	2.33	0.92	
3150	3.83	2.10	0.96	
4000	3.26	1.89	0.99	0.95
5000	2.66	1.71	0.93	
6300*	1.93	1.36	0.97	
8000*	1.60	1.16	1.06	n/a
10000*	1.14	0.91	0.99	



α_w 0.75(MH)
Class C
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

Allen Smalls
Quality Manager

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Nigel Chandler
Approved Signatory

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

Client: S.A.C. Silent AG & Knauf AMF GmbH & Co. KG

Test Date: 28/07/2016

Empty Room: **Temperature:** 21.7 °C **Humidity:** 56 %RH **Pressure:** 1007 mbar

Room with Sample: **Temperature:** 22.1 °C **Humidity:** 55 %RH **Pressure:** 1005 mbar

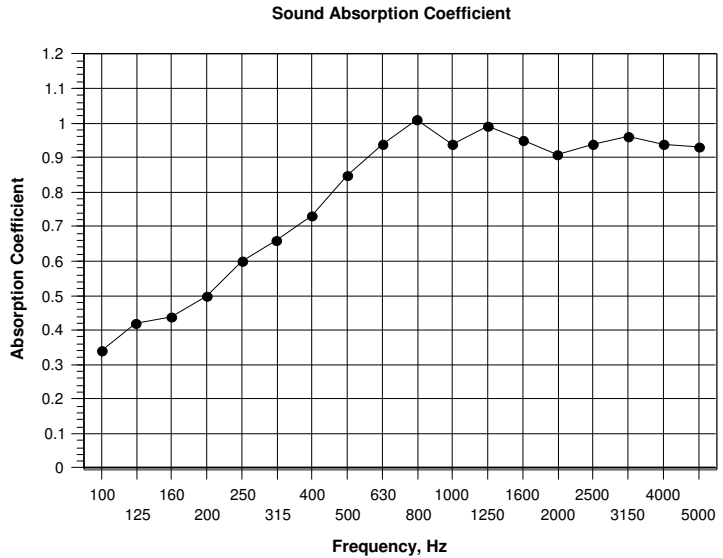
Sample Description: S.A.C. Grey-Line System 1600x580x29mm

Mounting Method: E-100

Sample Area: 10.8 m²

Chamber Volume: 300 m³

Test 84				
Freq Hz	T1 sec	T2 sec	Absorp Coeff	Practical Absorp Coeff #
50*	4.01	4.49	-0.12	
63*	4.63	3.79	0.21	n/a
80*	6.00	4.89	0.17	
100	7.70	4.86	0.34	
125	7.18	4.30	0.42	0.40
160	7.41	4.28	0.44	
200	7.71	4.15	0.50	
250	8.02	3.86	0.60	0.60
315	7.78	3.62	0.66	
400	7.03	3.26	0.73	
500	6.14	2.82	0.85	0.85
630	5.60	2.57	0.94	
800	5.72	2.49	1.01	
1000	6.21	2.68	0.94	1.00
1250	5.95	2.56	0.99	
1600	5.47	2.53	0.95	
2000	5.01	2.47	0.91	0.95
2500	4.49	2.30	0.94	
3150	3.74	2.07	0.96	
4000	3.17	1.90	0.94	0.95
5000	2.52	1.65	0.93	
6300*	1.85	1.31	0.99	
8000*	1.49	1.14	0.92	n/a
10000*	1.05	0.87	0.87	



α_w	0.85
Class B	
Calculated to EN ISO 11654:1997	
NRC	0.85
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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The Laboratory Measurement of Random Incidence Sound Absorption to BS EN ISO 354:2003

Client: S.A.C. Silent AG & Knauf AMF GmbH & Co. KG

Test Date: 28/07/2016

Empty Room: **Temperature:** 21.7 °C **Humidity:** 56 %RH **Pressure:** 1007 mbar

Room with Sample: **Temperature:** 22.1 °C **Humidity:** 55 %RH **Pressure:** 1005 mbar

Sample Description: S.A.C. Grey-Line System 1600x580x29mm

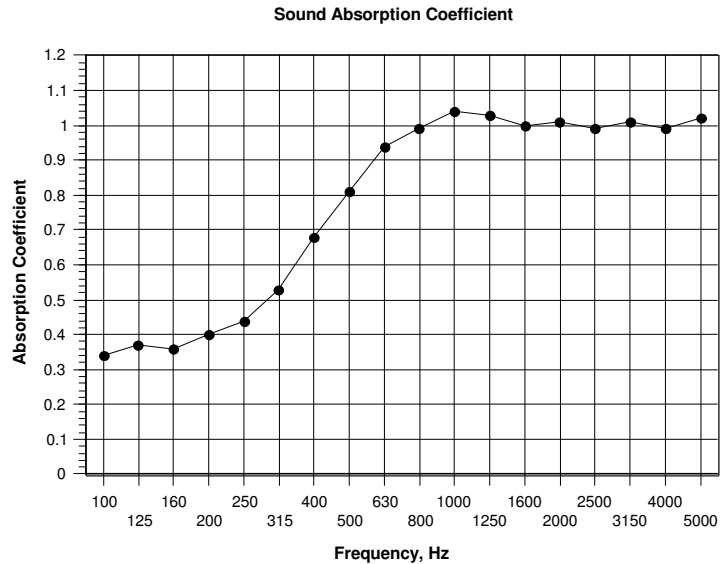
Mounting Method: E-400

Sample Area: 10.8 m²

Chamber Volume: 300 m³

Test 85

Freq Hz	T1 sec	T2 sec	Absorp Coeff	Practical Absorp Coeff #
50*	4.01	3.68	0.10	
63*	4.63	2.37	0.92	n/a
80*	6.00	4.49	0.25	
100	7.70	4.86	0.34	
125	7.18	4.50	0.37	0.35
160	7.41	4.64	0.36	
200	7.71	4.54	0.40	
250	8.02	4.47	0.44	0.45
315	7.78	4.04	0.53	
400	7.03	3.40	0.68	
500	6.14	2.90	0.81	0.80
630	5.60	2.57	0.94	
800	5.72	2.52	0.99	
1000	6.21	2.53	1.04	1.00
1250	5.95	2.50	1.03	
1600	5.47	2.45	1.00	
2000	5.01	2.35	1.01	1.00
2500	4.49	2.25	0.99	
3150	3.74	2.02	1.01	
4000	3.17	1.86	0.99	1.00
5000	2.52	1.60	1.02	
6300*	1.85	1.30	1.02	
8000*	1.49	1.11	1.02	n/a
10000*	1.05	0.87	0.87	



α_w 0.75(MH)

Class C

Calculated to EN ISO 11654:1997

NRC 0.85

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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Quality Manager

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

Client: S.A.C. Silent AG & Knauf AMF GmbH & Co. KG

Test Date: 25/07/2016

Empty Room: **Temperature:** 21.9 °C **Humidity:** 61 %RH **Pressure:** 1011 mbar

Room with Sample: **Temperature:** 22.9 °C **Humidity:** 55 %RH **Pressure:** 1011 mbar

Sample Description: S.A.C. Grey-Line System 1600x580x29mm

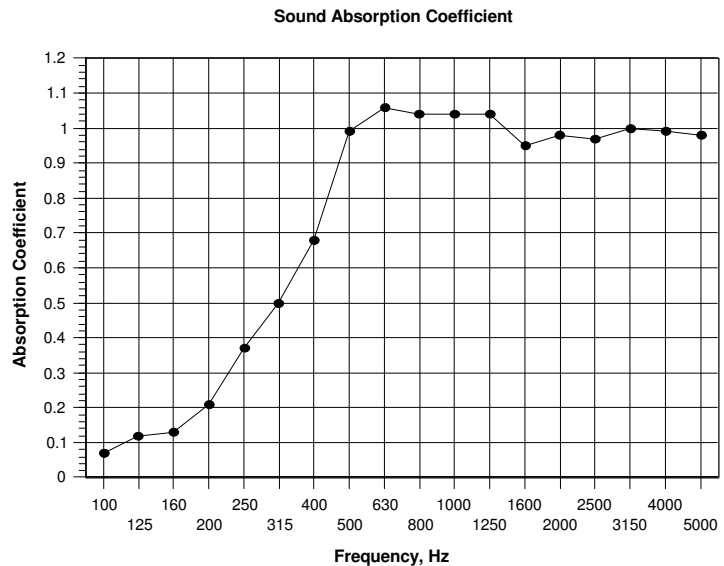
Mounting Method: A

Sample Area: 10.73 m²

Chamber Volume: 300 m³

Test 19

Freq Hz	T1 sec	T2 sec	Absorp Coeff	Practical Absorp Coeff #
50*	4.33	4.58	-0.06	
63*	4.61	4.30	0.07	n/a
80*	6.16	5.99	0.02	
100	7.51	6.75	0.07	
125	7.27	6.11	0.12	0.10
160	7.68	6.29	0.13	
200	7.57	5.56	0.21	
250	7.87	4.74	0.37	0.35
315	7.98	4.23	0.50	
400	7.12	3.42	0.68	
500	6.12	2.60	0.99	0.90
630	5.48	2.38	1.06	
800	5.78	2.46	1.04	
1000	6.16	2.53	1.04	1.00
1250	5.85	2.48	1.04	
1600	5.39	2.51	0.95	
2000	5.03	2.39	0.98	0.95
2500	4.50	2.26	0.97	
3150	3.83	2.05	1.00	
4000	3.26	1.87	0.99	1.00
5000	2.66	1.65	0.98	
6300*	1.93	1.32	1.00	
8000*	1.60	1.11	1.12	n/a
10000*	1.14	0.87	1.04	



A_w 0.65(MH)

Class C

Calculated to EN ISO 11654:1997

NRC 0.85

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

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

Client: S.A.C. Silent AG & Knauf AMF GmbH & Co. KG

Test Date: 25/07/2016

Empty Room: **Temperature:** 21.9 °C **Humidity:** 61 %RH **Pressure:** 1011 mbar

Room with Sample: **Temperature:** 22.9 °C **Humidity:** 56 %RH **Pressure:** 1011 mbar

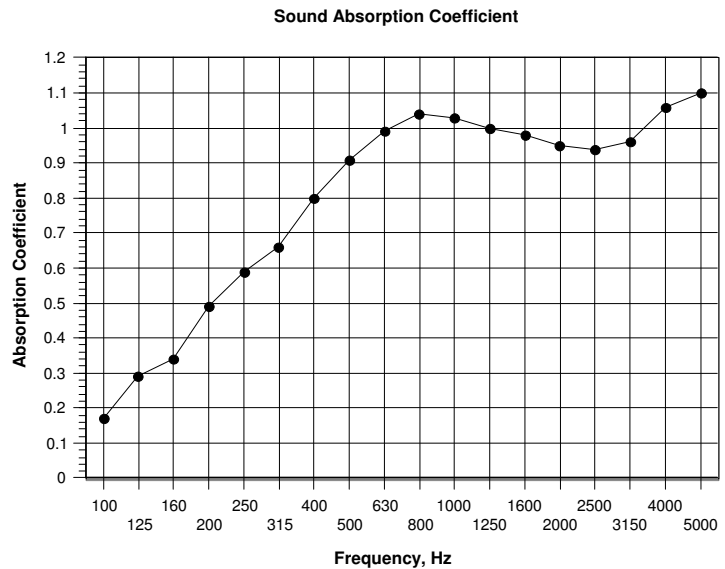
Sample Description: S.A.C. Grey-Line System 1600x580x29mm

Mounting Method: E-60

Sample Area: 10.73 m²

Chamber Volume: 300 m³

Test 20				
Freq Hz	T1 sec	T2 sec	Absorp Coeff	Practical Absorp Coeff #
50*	4.33	4.39	-0.02	
63*	4.61	4.19	0.10	n/a
80*	6.16	5.66	0.06	
100	7.51	5.82	0.17	
125	7.27	4.95	0.29	0.25
160	7.68	4.87	0.34	
200	7.57	4.13	0.49	
250	7.87	3.86	0.59	0.60
315	7.98	3.66	0.66	
400	7.12	3.13	0.80	
500	6.12	2.72	0.91	0.90
630	5.48	2.48	0.99	
800	5.78	2.47	1.04	
1000	6.16	2.55	1.03	1.00
1250	5.85	2.53	1.00	
1600	5.39	2.46	0.98	
2000	5.03	2.42	0.95	0.95
2500	4.50	2.30	0.94	
3150	3.83	2.09	0.96	
4000	3.26	1.82	1.06	1.00
5000	2.66	1.59	1.10	
6300*	1.93	1.33	0.99	
8000*	1.60	1.12	1.12	n/a
10000*	1.14	0.87	1.09	



a_w 0.90

Class A

Calculated to EN ISO 11654:1997

NRC 0.85

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

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

Client: S.A.C. Silent AG & Knauf AMF GmbH & Co. KG

Test Date: 29/07/2016

Empty Room: **Temperature:** 21.6 °C **Humidity:** 62 %RH **Pressure:** 1002 mbar

Room with Sample: **Temperature:** 21.7 °C **Humidity:** 63 %RH **Pressure:** 1003 mbar

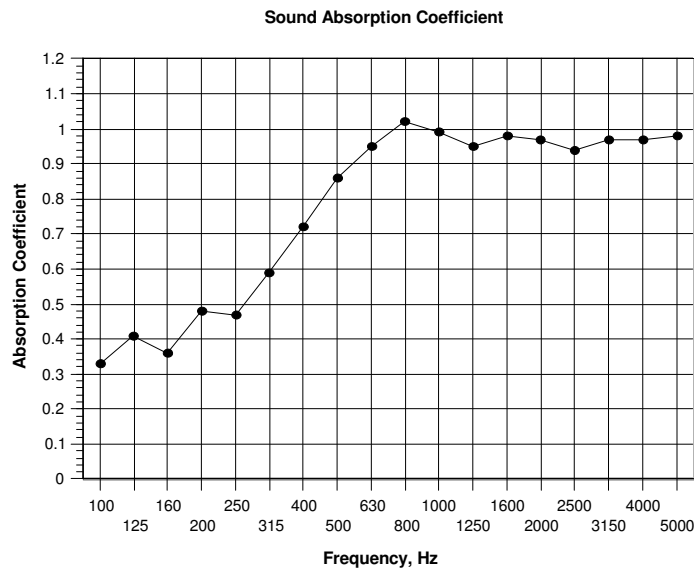
Sample Description: S.A.C. Grey-Line System (1600x580x29mm) with TP120A 30mm Mineral wool

Mounting Method: E-200

Sample Area: 10.8 m²

Chamber Volume: 300 m³

Test 97				
Freq Hz	T1 sec	T2 sec	Absorp Coeff	Practical Absorp Coeff #
50*	4.47	3.11	0.44	
63*	5.42	2.81	0.77	n/a
80*	5.82	3.19	0.63	
100	6.78	4.52	0.33	
125	7.64	4.47	0.41	0.35
160	7.40	4.62	0.36	
200	7.94	4.29	0.48	
250	8.20	4.41	0.47	0.50
315	8.05	3.90	0.59	
400	7.14	3.31	0.72	
500	6.12	2.81	0.86	0.85
630	5.51	2.54	0.95	
800	5.75	2.48	1.02	
1000	6.06	2.58	0.99	1.00
1250	5.90	2.62	0.95	
1600	5.46	2.48	0.98	
2000	5.06	2.41	0.97	0.95
2500	4.55	2.33	0.94	
3150	3.78	2.08	0.97	
4000	3.18	1.89	0.97	0.95
5000	2.61	1.67	0.98	
6300*	1.92	1.36	0.98	
8000*	1.57	1.19	0.94	n/a
10000*	1.12	0.92	0.92	



a_w 0.80(H)
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

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

Client: S.A.C. Silent AG & Knauf AMF GmbH & Co. KG

Test Date: 28/07/2016

Empty Room: Temperature: 21.7 °C Humidity: 56 %RH Pressure: 1007 mbar

Room with Sample: Temperature: 22.1 °C Humidity: 55 %RH Pressure: 1005 mbar

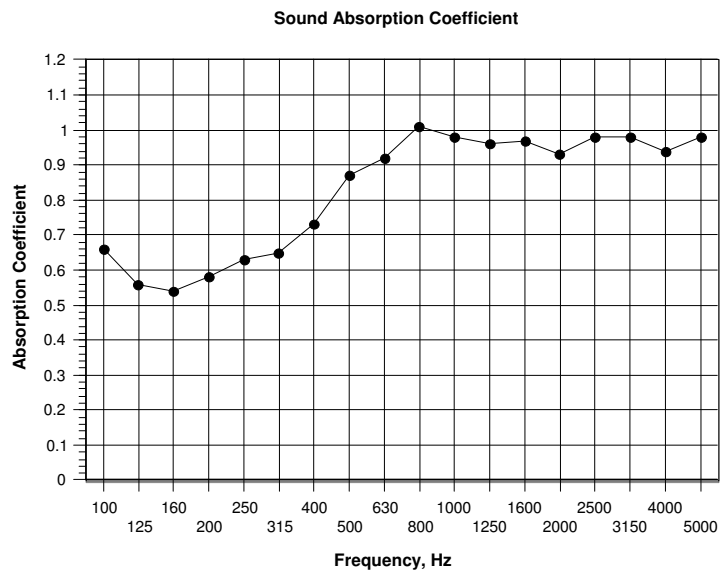
Sample Description: S.A.C. Grey-Line System(1600x580x29mm) with TP120A 30mm Mineral wool

Mounting Method: E-100

Sample Area: 10.8 m²

Chamber Volume: 300 m³

Test 83				
Freq Hz	T1 sec	T2 sec	Absorp Coeff	Practical Absorp Coeff #
50*	4.01	4.27	-0.07	
63*	4.63	3.20	0.43	n/a
80*	6.00	3.62	0.49	
100	7.70	3.60	0.66	
125	7.18	3.78	0.56	0.60
160	7.41	3.89	0.54	
200	7.71	3.86	0.58	
250	8.02	3.76	0.63	0.60
315	7.78	3.64	0.65	
400	7.03	3.27	0.73	
500	6.14	2.80	0.87	0.85
630	5.60	2.60	0.92	
800	5.72	2.49	1.01	
1000	6.21	2.63	0.98	1.00
1250	5.95	2.60	0.96	
1600	5.47	2.49	0.97	
2000	5.01	2.45	0.93	0.95
2500	4.49	2.26	0.98	
3150	3.74	2.05	0.98	
4000	3.17	1.90	0.94	0.95
5000	2.52	1.62	0.98	
6300*	1.85	1.31	0.99	
8000*	1.49	1.12	0.99	n/a
10000*	1.05	0.86	0.93	



a_w	0.85
Class B	
Calculated to EN ISO 11654:1997	
NRC	0.85
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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The Laboratory Measurement of Random Incidence Sound Absorption to BS EN ISO 354:2003

Client: S.A.C. Silent AG & Knauf AMF GmbH & Co. KG

Test Date: 28/07/2016

Empty Room: Temperature: 21.7 °C Humidity: 56 %RH Pressure: 1007 mbar

Room with Sample: Temperature: 22.1 °C Humidity: 56 %RH Pressure: 1006 mbar

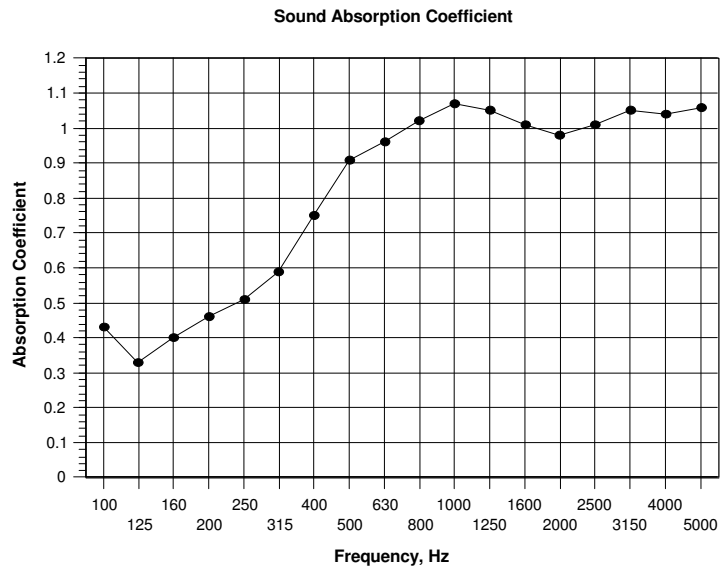
Sample Description: S.A.C. Grey-Line System (1600x580x29mm) with TP120A 30mm Mineral wool

Mounting Method: E-400

Sample Area: 10.8 m²

Chamber Volume: 300 m³

Test 86				
Freq Hz	T1 sec	T2 sec	Absorp Coeff	Practical Absorp Coeff #
50*	4.01	3.43	0.19	
63*	4.63	2.19	1.07	n/a
80*	6.00	3.92	0.39	
100	7.70	4.43	0.43	
125	7.18	4.68	0.33	0.40
160	7.41	4.44	0.40	
200	7.71	4.30	0.46	
250	8.02	4.20	0.51	0.50
315	7.78	3.84	0.59	
400	7.03	3.23	0.75	
500	6.14	2.73	0.91	0.85
630	5.60	2.53	0.96	
800	5.72	2.48	1.02	
1000	6.21	2.49	1.07	1.00
1250	5.95	2.47	1.05	
1600	5.47	2.44	1.01	
2000	5.01	2.38	0.98	1.00
2500	4.49	2.23	1.01	
3150	3.74	1.99	1.05	
4000	3.17	1.83	1.04	1.00
5000	2.52	1.58	1.06	
6300*	1.85	1.30	1.04	
8000*	1.49	1.11	1.06	n/a
10000*	1.05	0.86	0.99	



A_w 0.80(H)

Class B

Calculated to EN ISO 11654:1997

NRC 0.85

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

Client: S.A.C. Silent AG & Knauf AMF GmbH & Co. KG

Test Date: 29/07/2016

Empty Room: **Temperature:** 21.6 °C **Humidity:** 62 %RH **Pressure:** 1002 mbar

Room with Sample: **Temperature:** 21.8 °C **Humidity:** 65 %RH **Pressure:** 1002 mbar

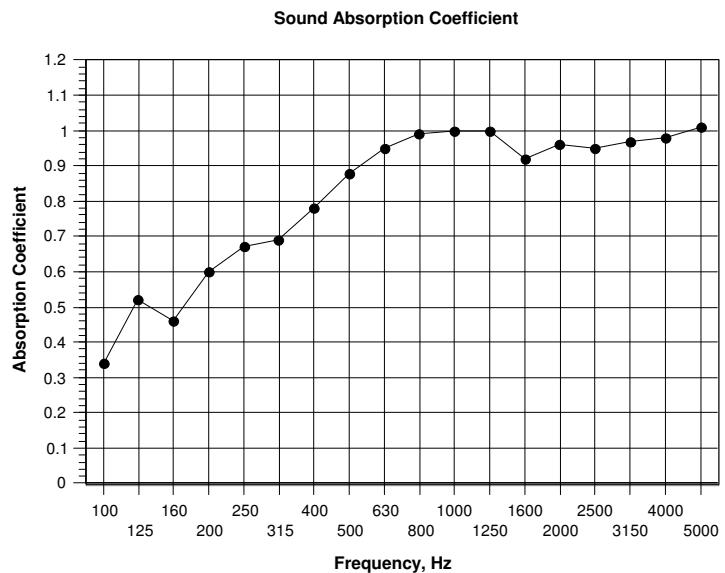
Sample Description: S.A.C. Grey-Line System (1600x580x29mm) with TP120A 30mm Mineral wool

Mounting Method: E-60

Sample Area: 10.8 m²

Chamber Volume: 300 m³

Test 98				
Freq Hz	T1 sec	T2 sec	Absorp Coeff	Practical Absorp Coeff #
50*	4.47	3.91	0.14	
63*	5.42	4.71	0.12	n/a
80*	5.82	4.62	0.20	
100	6.78	4.48	0.34	
125	7.64	4.05	0.52	0.45
160	7.40	4.20	0.46	
200	7.94	3.85	0.60	
250	8.20	3.67	0.67	0.65
315	8.05	3.58	0.69	
400	7.14	3.17	0.78	
500	6.12	2.77	0.88	0.85
630	5.51	2.53	0.95	
800	5.75	2.53	0.99	
1000	6.06	2.56	1.00	1.00
1250	5.90	2.54	1.00	
1600	5.46	2.56	0.92	
2000	5.06	2.42	0.96	0.95
2500	4.55	2.31	0.95	
3150	3.78	2.08	0.97	
4000	3.18	1.89	0.98	1.00
5000	2.61	1.66	1.01	
6300*	1.92	1.37	0.99	
8000*	1.57	1.20	0.97	n/a
10000*	1.12	0.95	0.86	



α_w 0.90

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

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