

Acoustic Test Report - Absorption

Absorption Class: C

Calculated to EN ISO 11654:1997

Fabric: Countess

Fullness: 50%

Cavity from Wall: 100mm

J&C Joel 

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Data Sheet 28

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

Client: J&C Joel Ltd

Test Date: 20/05/2014

Empty Room: **Temperature:** 19.0 °C **Humidity:** 62 %RH **Pressure:** 999 mbar

Room with Sample: **Temperature:** 19.1 °C **Humidity:** 60 %RH **Pressure:** 1001 mbar

Sample Description: Countess – Single Layer – 50% fullness (Approx. weight 375g/m²) – 100mm cavity from wall

Mounting Method: G-100

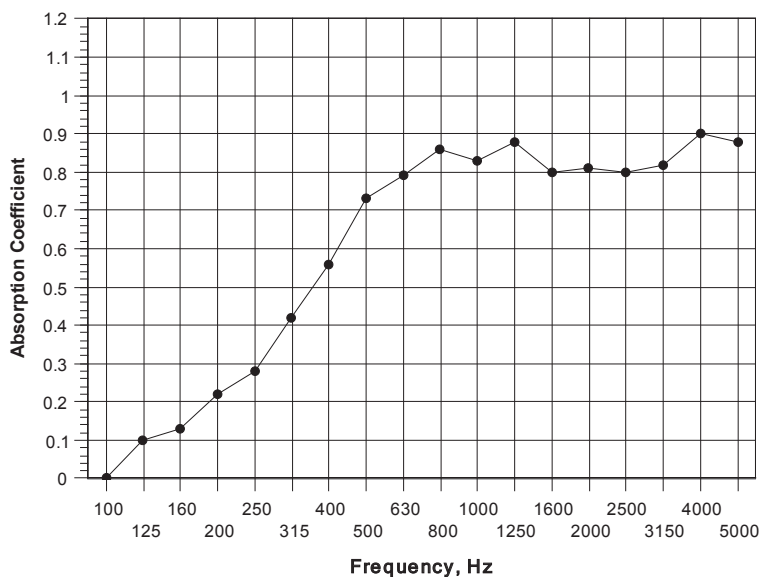
Sample Area: 9 m²

Chamber Volume: 300 m³

Test 30

Freq Hz	T1 sec	T2 sec	Absorp Coeff	Practical Absorp Coeff #
50*	5.33	5.70	-0.07	
63*	5.40	4.73	0.14	n/a
80*	6.56	6.07	0.07	
100	7.57	7.59	-0.00	
125	7.11	6.26	0.10	0.10
160	6.42	5.56	0.13	
200	7.12	5.50	0.22	
250	7.07	5.15	0.28	0.30
315	6.84	4.46	0.42	
400	6.46	3.87	0.56	
500	5.45	3.13	0.73	0.70
630	4.96	2.87	0.79	
800	5.47	2.92	0.86	
1000	5.91	3.09	0.83	0.85
1250	5.59	2.92	0.88	
1600	5.06	2.89	0.80	
2000	4.75	2.76	0.81	0.80
2500	4.34	2.63	0.80	
3150	3.64	2.33	0.82	
4000	3.09	2.02	0.90	0.85
5000	2.44	1.73	0.88	
6300*	1.79	1.38	0.85	
8000*	1.51	1.18	0.92	n/a
10000*	1.06	0.83	1.30	

Sound Absorption Coefficient



α_w 0.60(MH)

Class C

Calculated to EN ISO 11654:1997

NRC 0.65

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

Acoustic Test Report - Absorption

Absorption Class: C

Calculated to EN ISO 11654:1997

Fabric: Countess

Fullness: 50%

Cavity from Wall: 350mm

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Data Sheet 27

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

Client: J&C Joel Ltd

Test Date: 20/05/2014

Empty Room: **Temperature:** 19.0 °C **Humidity:** 62 %RH **Pressure:** 999 mbar

Room with Sample: **Temperature:** 19.1 °C **Humidity:** 60 %RH **Pressure:** 1001 mbar

Sample Description: Countess – Single Layer – 50% fullness (Approx. weight 375g/m²) – 350mm cavity from wall

Mounting Method: G-350

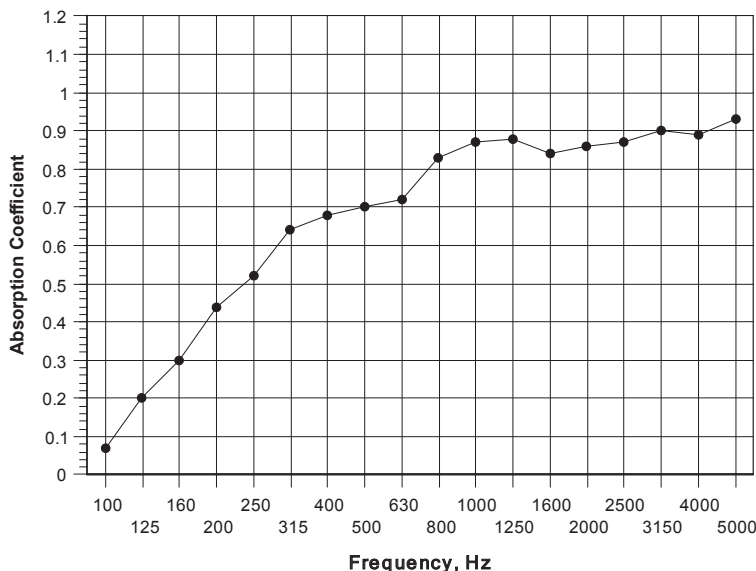
Sample Area: 9 m²

Chamber Volume: 300 m³

Test 29

Freq Hz	T1 sec	T2 sec	Absorp Coeff	Practical Absorp Coeff #
50*	5.33	5.73	-0.07	
63*	5.40	4.45	0.21	n/a
80*	6.56	5.72	0.12	
100	7.57	6.88	0.07	
125	7.11	5.60	0.20	0.20
160	6.42	4.71	0.30	
200	7.12	4.51	0.44	
250	7.07	4.19	0.52	0.55
315	6.84	3.76	0.64	
400	6.46	3.56	0.68	
500	5.45	3.18	0.70	0.70
630	4.96	2.98	0.72	
800	5.47	2.97	0.83	
1000	5.91	3.03	0.87	0.85
1250	5.59	2.92	0.88	
1600	5.06	2.82	0.84	
2000	4.75	2.70	0.86	0.85
2500	4.34	2.54	0.87	
3150	3.64	2.25	0.90	
4000	3.09	2.03	0.89	0.90
5000	2.44	1.70	0.93	
6300*	1.79	1.33	0.99	
8000*	1.51	1.15	1.04	n/a
10000*	1.06	0.84	1.22	

Sound Absorption Coefficient



α_w 0.75(H)

Class C

Calculated to EN ISO 11654:1997

NRC 0.75

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

Acoustic Test Report - Absorption

Absorption Class: C

Calculated to EN ISO 11654:1997

Fabric: Countess

Fullness: 100%

Cavity from Wall: 100mm

J&C Joel 

the inspiration behind the performance

Data Sheet 29

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

Client: J&C Joel Ltd

Test Date: 20/05/2014

Empty Room: **Temperature:** 19.0 °C **Humidity:** 62 %RH **Pressure:** 999 mbar

Room with Sample: **Temperature:** 19.2 °C **Humidity:** 60 %RH **Pressure:** 1001 mbar

Sample Description: Countess – Single Layer – 100% fullness (Approx. weight 375g/m²) – 100mm cavity from wall

Mounting Method: G-100

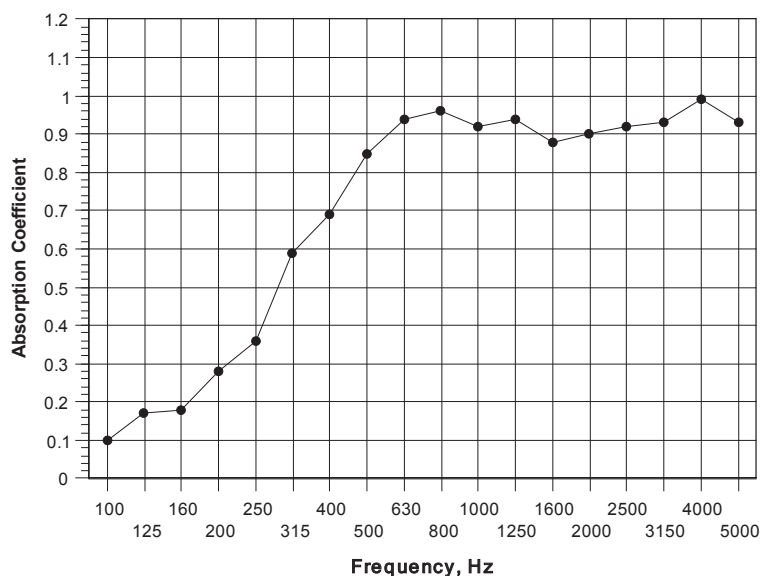
Sample Area: 9 m²

Chamber Volume: 300 m³

Test 31

Freq Hz	T1 sec	T2 sec	Absorp Coeff	Practical Absorp Coeff #
50*	5.33	5.59	-0.05	
63*	5.40	4.51	0.20	n/a
80*	6.56	5.96	0.08	
100	7.57	6.67	0.10	
125	7.11	5.78	0.17	0.15
160	6.42	5.29	0.18	
200	7.12	5.20	0.28	
250	7.07	4.80	0.36	0.40
315	6.84	3.91	0.59	
400	6.46	3.53	0.69	
500	5.45	2.93	0.85	0.85
630	4.96	2.66	0.94	
800	5.47	2.77	0.96	
1000	5.91	2.94	0.92	0.95
1250	5.59	2.83	0.94	
1600	5.06	2.77	0.88	
2000	4.75	2.64	0.90	0.90
2500	4.34	2.48	0.92	
3150	3.64	2.23	0.93	
4000	3.09	1.96	0.99	0.95
5000	2.44	1.70	0.93	
6300*	1.79	1.36	0.91	
8000*	1.51	1.17	0.97	n/a
10000*	1.06	0.83	1.31	

Sound Absorption Coefficient



α_w 0.70(MH)

Class C

Calculated to EN ISO 11654:1997

NRC 0.75

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

Acoustic Test Report - Absorption

Absorption Class: C

Calculated to EN ISO 11654:1997

Fabric: Countess

Fullness: 100%

Cavity from Wall: 350mm

J&C Joel 

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Data Sheet 30

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

Client: J&C Joel Ltd

Test Date: 20/05/2014

Empty Room: **Temperature:** 19.0 °C **Humidity:** 62 %RH **Pressure:** 999 mbar

Room with Sample: **Temperature:** 19.2 °C **Humidity:** 60 %RH **Pressure:** 1001 mbar

Sample Description: Countess – Single Layer – 100% fullness (Approx. weight 375g/m²) – 350mm cavity from wall

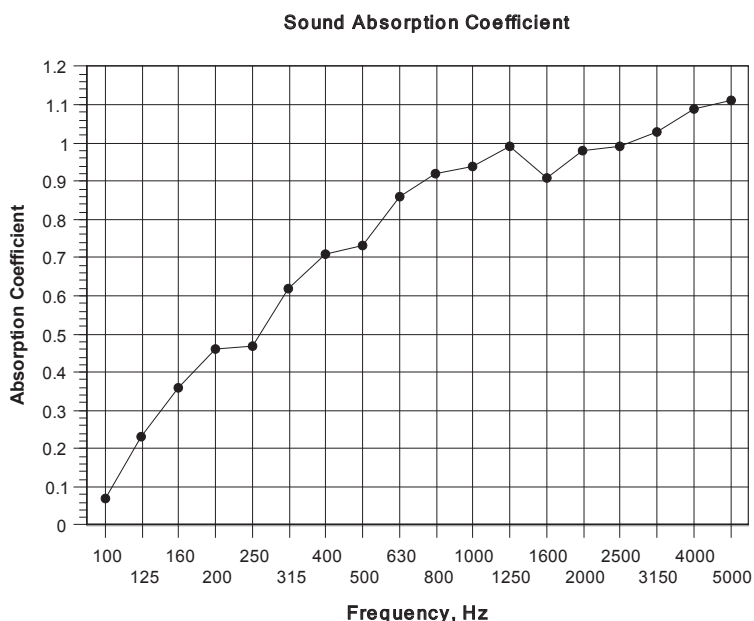
Mounting Method: G-350

Sample Area: 9 m²

Chamber Volume: 300 m³

Test 32

Freq Hz	T1 sec	T2 sec	Absorp Coeff	Practical Absorp Coeff #
50*	5.33	4.99	0.07	
63*	5.40	4.63	0.17	n/a
80*	6.56	5.71	0.12	
100	7.57	6.85	0.07	
125	7.11	5.46	0.23	0.20
160	6.42	4.50	0.36	
200	7.12	4.41	0.46	
250	7.07	4.38	0.47	0.50
315	6.84	3.83	0.62	
400	6.46	3.48	0.71	
500	5.45	3.14	0.73	0.75
630	4.96	2.77	0.86	
800	5.47	2.83	0.92	
1000	5.91	2.91	0.94	0.95
1250	5.59	2.76	0.99	
1600	5.06	2.73	0.91	
2000	4.75	2.54	0.98	0.95
2500	4.34	2.41	0.99	
3150	3.64	2.14	1.03	
4000	3.09	1.89	1.09	1.00
5000	2.44	1.61	1.11	
6300*	1.79	1.34	0.97	
8000*	1.51	1.13	1.14	n/a
10000*	1.06	0.80	1.56	



α_w 0.75(H)

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