

Acoustic Test Report - Absorption

Absorption Class: E
(Calculated in accordance with EN ISO 11654:1997)

Fabric: Acoustic Felt - Fawn

Fullness: Flat

Cavity from Wall: Flat to the Floor



the inspiration behind the performance



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[Data Sheet 34](#)

The Laboratory Measurement of Random Incidence Sound Absorption 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: 19.3 °C Humidity: 60 %RH Pressure: 1001 mbar

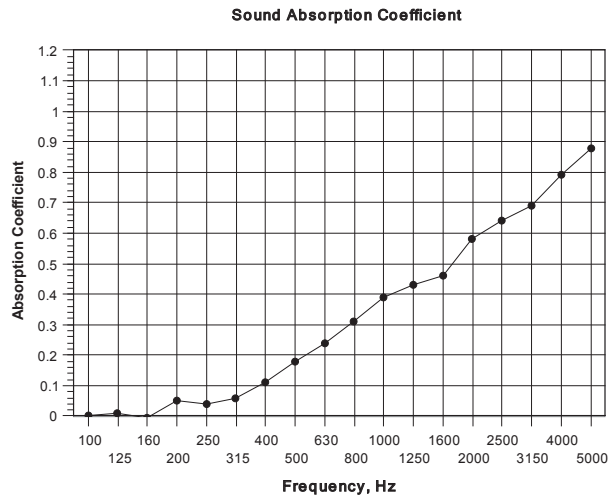
Sample Description: Acoustic Felt Fawn – Single Layer – Flat (Approx. weight 880g/m²) – Flat to floor

Mounting Method: E-0

Sample Area: 12.45 m²

Chamber Volume: 300 m³

Test 36				
Freq Hz	T1 sec	T2 sec	Absorp Coeff	Practical Absorp Coeff #
50*	5.33	5.17	0.02	
63*	5.40	4.55	0.73	n/a
80*	6.56	6.67	-0.01	
100	7.57	7.60	-0.00	
125	7.11	6.94	0.01	0.00
160	6.42	6.49	-0.01	
200	7.12	6.57	0.05	
250	7.07	6.53	0.04	0.05
315	6.84	6.19	0.06	
400	6.46	5.44	0.11	
500	5.45	4.34	0.18	0.20
630	4.96	3.79	0.24	
800	5.47	3.82	0.31	
1000	5.91	3.70	0.39	0.40
1250	5.59	3.44	0.43	
1600	5.06	3.15	0.46	
2000	4.75	2.78	0.58	0.55
2500	4.34	2.53	0.64	
3150	3.64	2.21	0.69	
4000	3.09	1.89	0.79	0.80
5000	2.44	1.56	0.88	
6300*	1.79	1.24	0.94	
8000*	1.51	1.06	1.06	n/a
10000*	1.06	0.79	1.20	



a_w	0.25(H)
Class E	
Calculated to EN ISO 11654:1997	
NRC	0.30
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: D
(Calculated in accordance with EN ISO 11654:1997)

Fabric: Acoustic Felt - Multicoloured

Fullness: Flat

Cavity from Wall: Flat to the Floor



the inspiration behind the performance



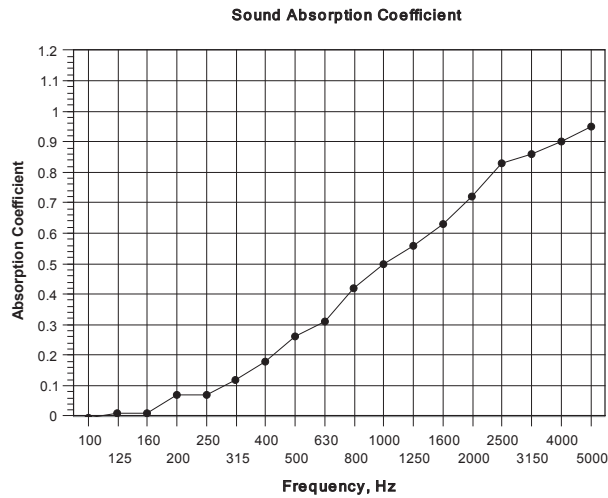
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[Data Sheet 33](#)

The Laboratory Measurement of Random Incidence Sound Absorption 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: 19.3 °C Humidity: 60 %RH Pressure: 1001 mbar
Sample Description: Acoustic Felt Multicoloured – Single Layer – Flat (Approx. weight 1.42kg/m²) – Flat to floor
Mounting Method: E-0
Sample Area: 12.45 m²
Chamber Volume: 300 m³

Test 35				
Freq Hz	T1 sec	T2 sec	Absorp Coeff	Practical Absorp Coeff #
50*	5.33	4.57	0.12	
63*	5.40	4.68	0.11	n/a
80*	6.56	6.41	0.01	
100	7.57	7.73	-0.01	
125	7.11	6.93	0.01	0.00
160	6.42	6.34	0.01	
200	7.12	6.27	0.07	
250	7.07	6.27	0.07	0.10
315	6.84	5.65	0.12	
400	6.46	4.99	0.18	
500	5.45	3.99	0.26	0.25
630	4.96	3.54	0.31	
800	5.47	3.45	0.42	
1000	5.91	3.35	0.50	0.50
1250	5.59	3.09	0.56	
1600	5.06	2.78	0.63	
2000	4.75	2.53	0.72	0.75
2500	4.34	2.25	0.83	
3150	3.64	2.01	0.86	
4000	3.09	1.79	0.90	0.90
5000	2.44	1.52	0.95	
6300*	1.79	1.23	0.97	
8000*	1.51	1.09	0.96	n/a
10000*	1.06	0.78	1.26	



a_w 0.30(H)
 Class D
 Calculated to EN ISO 11654:1997
 NRC 0.40
 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