Abbreviated Acoustic Test Report

Fabric: Heavy Velvet Velour
Type: 50% Fullness

J&C Joel
the inspiration behind the performance

SRL

Data Sheet 17

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:**	18.9	°C	**Humidity:**	62	%RH	**Pressure:**	999 mbar

Sample Description: Heavy Velvet Velour – Single Layer – 50% fullness (Approx. weight 520g/m²) – 100mm cavity from wall

Mounting Method: G-100
Sample Area: 9 m2
Chamber Volume: 300 m3

	Test 19			
Freq Hz	T1 sec	T2 sec	Absorp Coeff	Practical Absorp Coeff #
*50**	*5.33*	*5.00*	*0.07*	
*63**	*5.40*	*5.23*	*0.03*	*n/a*
*80**	*6.56*	*6.03*	*0.07*	
100	7.57	6.94	0.06	
125	7.11	6.37	0.09	0.10
160	6.42	5.53	0.14	
200	7.12	5.42	0.24	
250	7.07	4.89	0.34	0.35
315	6.84	4.06	0.54	
400	6.46	3.53	0.69	
500	5.45	2.97	0.83	0.80
630	4.96	2.72	0.89	
800	5.47	2.79	0.95	
1000	5.91	2.85	0.98	0.95
1250	5.59	2.90	0.89	
1600	5.06	2.77	0.88	
2000	4.75	2.65	0.90	0.90
2500	4.34	2.54	0.88	
3150	3.64	2.26	0.90	
4000	3.09	2.04	0.89	0.90
5000	2.44	1.72	0.92	
*6300**	*1.79*	*1.35*	*0.97*	
*8000**	*1.51*	*1.17*	*1.03*	*n/a*
*10000**	*1.06*	*0.86*	*1.17*	

a_w 0.65(MH)

Class C

Calculated to EN ISO 11654:1997

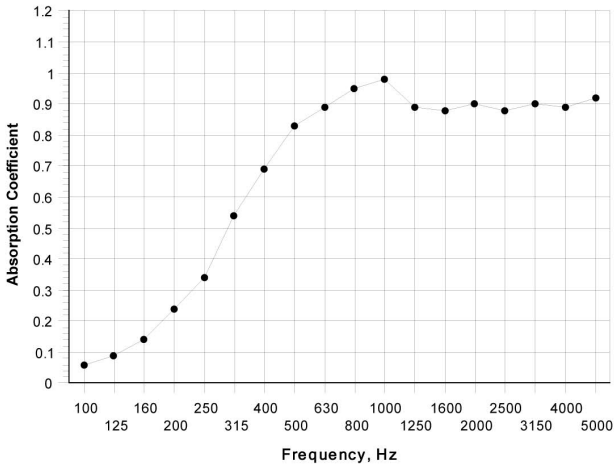
NRC 0.75

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

Sound Absorption Coefficient



Practical absorption coefficient, BS EN ISO 11654:1997

v4.3

©SRL Technical Services Limited

Abbreviated Acoustic Test Report

Fabric: Heavy Velvet Velour
Type: 50% Fullness

J&C Joel
the inspiration behind the performance

SRL

Data Sheet 18

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:**	18.9	°C	**Humidity:**	62	%RH	**Pressure:**	999 mbar

Sample Description: Heavy Velvet Velour – Single Layer – 50% fullness (Approx. weight 520g/m²) – 350mm cavity from wall

Mounting Method: G-350
Sample Area: 9 m2
Chamber Volume: 300 m3

	Test 20			
Freq Hz	T1 sec	T2 sec	Absorp Coeff	Practical Absorp Coeff #
*50**	*5.33*	*4.90*	*0.09*	
*63**	*5.40*	*5.10*	*0.06*	*n/a*
*80**	*6.56*	*5.51*	*0.16*	
100	7.57	5.96	0.19	
125	7.11	5.40	0.24	0.25
160	6.42	4.49	0.36	
200	7.12	4.30	0.50	
250	7.07	4.00	0.58	0.60
315	6.84	3.58	0.72	
400	6.46	3.39	0.76	
500	5.45	2.96	0.83	0.85
630	4.96	2.68	0.92	
800	5.47	2.74	0.98	
1000	5.91	2.85	0.98	0.95
1250	5.59	2.81	0.95	
1600	5.06	2.72	0.92	
2000	4.75	2.58	0.95	0.95
2500	4.34	2.45	0.96	
3150	3.64	2.19	0.98	
4000	3.09	1.94	1.03	1.00
5000	2.44	1.66	1.03	
*6300**	*1.79*	*1.31*	*1.10*	
*8000**	*1.51*	*1.15*	*1.11*	*n/a*
*10000**	*1.06*	*0.85*	*1.24*	

α_w 0.85(H)

Class B

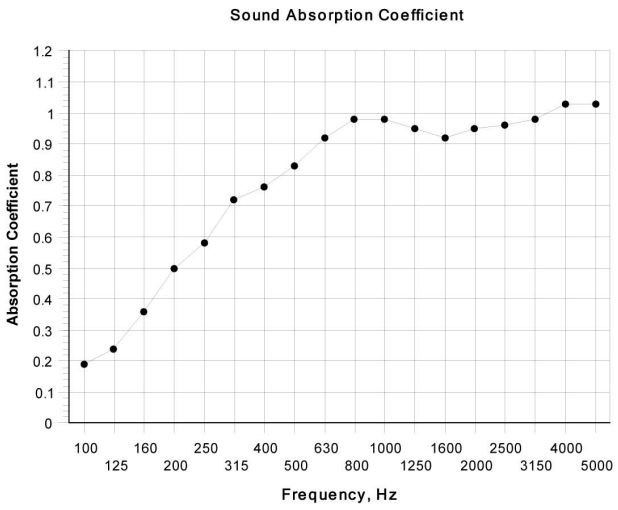
Calculated to EN ISO 11654:1997

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

©SRL Technical Services Limited