

Sound Absorption Coefficient according to ISO 354:2003

Test No. L/R3332/3

Date of Test: 17 & 18 March 2015

Client: JD McDougall Ltd

Specimen: IFR Wool Serge Super – 200 mm from wall – hung flat (not pleated)

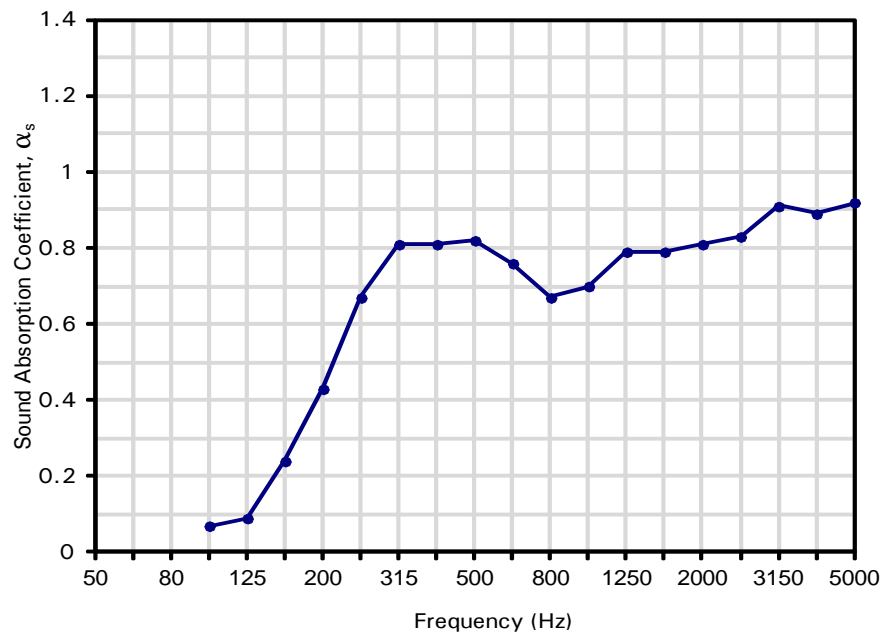
Installed by: AIRO

Specimen area: 12.0 m²

Quoted mass per unit area: 530 gm/m²

Chamber Conditions	Volume	Air Temperature	Relative Humidity	Air Pressure
Empty Chamber	221 m ³	9°C	75%	1008 mbar
Chamber with Specimen	221 m ³	9°C	75%	1015 mbar

Frequency (Hz)	α_s	α_p
50		
63		
80		
100	0.07	
125	0.09	
160	0.24	
200	0.43	
250	0.67	
315	0.81	
400	0.81	
500	0.82	
630	0.76	
800	0.67	
1000	0.70	
1250	0.79	
1600	0.79	
2000	0.81	
2500	0.83	
3150	0.91	
4000	0.89	
5000	0.92	
6300		
8000		
10000		



See Appendix A5 for Reverberation Times of Empty Chamber and Chamber with Specimen

Rating according to ISO 11654:1997	$\alpha_w = 0.80$	Sound Absorption Class: B
------------------------------------	-------------------------------------	----------------------------------

Approved by:

Report Author:

DL Watts

Eur Ing D L Watts BEng CEng FIOA
Principal Consultant

M Sawyer

M Sawyer MIOA
Laboratory Supervisor

Sound Absorption Coefficient according to ISO 354:2003

Test No. L/R3332/4

Date of Test: 17 & 18 March 2015

Client: JD McDougall Ltd

Specimen: IFR Wool Serge Super – 100 mm from wall – hung flat (not pleated)

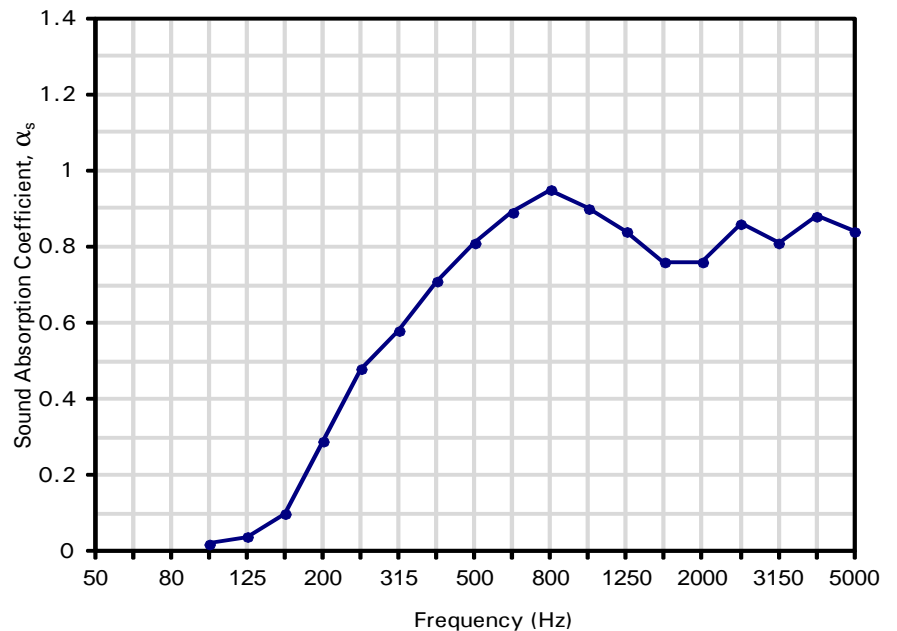
Installed by: AIRO

Specimen area: 12.0 m²

Quoted mass per unit area: 530 gm/m²

Chamber Conditions	Volume	Air Temperature	Relative Humidity	Air Pressure
Empty Chamber	221 m ³	9 °C	75%	1008 mbar
Chamber with Specimen	221 m ³	9 °C	75%	1015 mbar

Frequency (Hz)	α_s	α_p
50		
63		
80		
100	0.02	
125	0.04	0.05
160	0.10	
200	0.29	
250	0.48	0.45
315	0.58	
400	0.71	
500	0.81	0.80
630	0.89	
800	0.95	
1000	0.90	0.90
1250	0.84	
1600	0.76	
2000	0.76	0.80
2500	0.86	
3150	0.81	
4000	0.88	0.85
5000	0.84	
6300		
8000		
10000		



See Appendix A5 for Reverberation Times of Empty Chamber and Chamber with Specimen

Rating according to ISO 11654:1997	$\alpha_w = 0.75$	Sound Absorption Class: C
------------------------------------	-------------------------------------	----------------------------------

Approved by:

Report Author:

D L Watts

Eur Ing D L Watts BEng CEng FIOA
Principal Consultant

M Sawyer

M Sawyer MIOA
Laboratory Supervisor