

**Sound Absorption Coefficient according to ISO 354:2003**

Test No. L/R3332/6

Date of Test: 17 & 18 March 2015

Client: JD McDougall Ltd

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

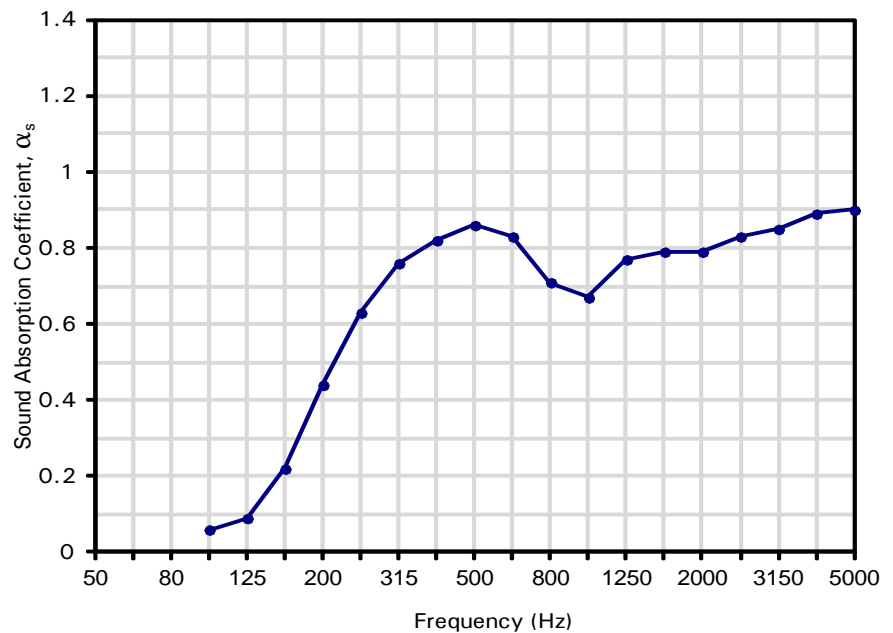
Installed by: AIRO

Specimen area: 12.0 m<sup>2</sup>

Quoted mass per unit area: 505 gm/m<sup>2</sup>

Chamber Conditions	Volume	Air Temperature	Relative Humidity	Air Pressure
Empty Chamber	221 m <sup>3</sup>	9°C	75%	1008 mbar
Chamber with Specimen	221 m <sup>3</sup>	9°C	75%	1017 mbar

Frequency (Hz)	$\alpha_s$	$\alpha_p$
50		
63		
80		
100	0.06	
125	0.09	0.10
160	0.22	
200	0.44	
250	0.63	0.60
315	0.76	
400	0.82	
500	0.86	0.85
630	0.83	
800	0.71	
1000	0.67	0.70
1250	0.77	
1600	0.79	
2000	0.79	0.80
2500	0.83	
3150	0.85	
4000	0.89	0.90
5000	0.90	
6300		
8000		
10000		



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

Rating according to ISO 11654:1997	<b><math>\alpha_w = 0.80</math></b>	<b>Sound Absorption Class: B</b>
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Approved by:

Report Author:

*D L 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/R3332/5

Date of Test: 17 & 18 March 2015

Client: JD McDougall Ltd

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

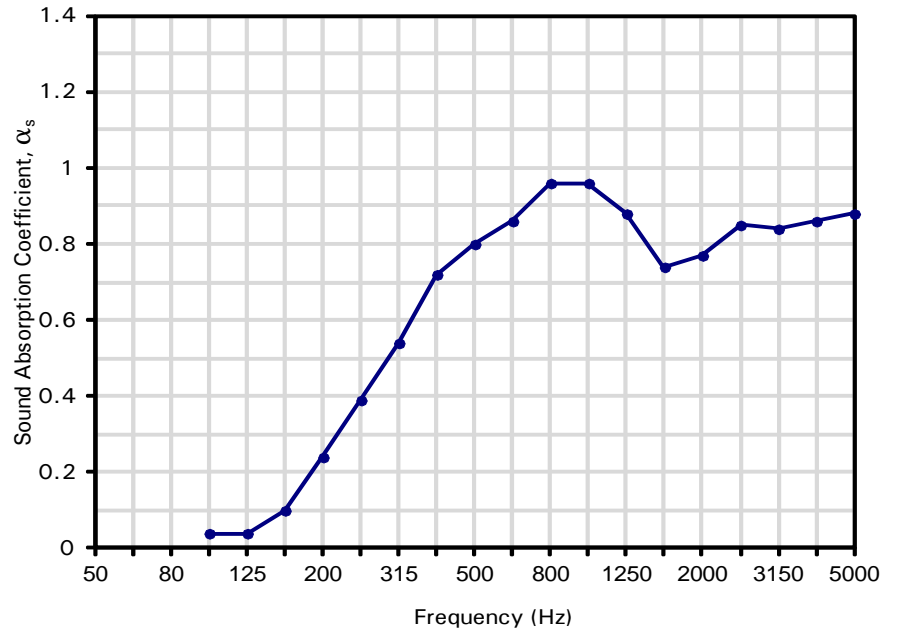
Installed by: AIRO

Specimen area: 12.0 m<sup>2</sup>

Quoted mass per unit area: 505 gm/m<sup>2</sup>

Chamber Conditions	Volume	Air Temperature	Relative Humidity	Air Pressure
Empty Chamber	221 m <sup>3</sup>	9°C	75%	1008 mbar
Chamber with Specimen	221 m <sup>3</sup>	9°C	75%	1017 mbar

Frequency (Hz)	$\alpha_s$	$\alpha_p$
50		
63		
80		
100	0.04	
125	0.04	0.05
160	0.10	
200	0.24	
250	0.39	0.40
315	0.54	
400	0.72	
500	0.80	0.80
630	0.86	
800	0.96	
1000	0.96	0.95
1250	0.88	
1600	0.74	
2000	0.77	0.80
2500	0.85	
3150	0.84	
4000	0.86	0.85
5000	0.88	
6300		
8000		
10000		



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

Rating according to ISO 11654:1997	<b><math>\alpha_w = 0.70</math> (MH)</b>	<b>Sound Absorption Class: C</b>
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Approved by:

Report Author:

*D L Watts*

Eur Ing D L Watts BEng CEng FIOA  
Principal Consultant

*M Sawyer*

M Sawyer MIOA  
Laboratory Supervisor