

DAY DESIGN PTY LTD

A.B.N. 73 107 291 494

CONSULTING ACOUSTICAL ENGINEERS



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AIRBORNE SOUND TRANSMISSION LOSS SOUND CONTROL PTY LTD SONATA 50 mm PANEL

REPORT NUMBER: 4725-13

PREPARED FOR: Sound Control Pty Ltd
61 Links Avenue North
Eagle Farm QLD 4009

Attention: Mr Rajeev Nand
Telephone: (07) 3268 4588

DATE ISSUED: 22 March 2012

Report Status	Prepared by: Alex Li	Approved by: Stephen Gauld
Final		

Document R\4725-r13.doc, 10 pages plus attachments



- AIRCRAFT, ROAD TRAFFIC AND TRAIN NOISE CONTROL
- ARCHITECTURAL ACOUSTICS • INDUSTRIAL NOISE AND VIBRATION CONTROL
- ENVIRONMENTAL NOISE IMPACT INVESTIGATION AND CONTROL
- OCCUPATIONAL NOISE INVESTIGATIONS • QUIET PRODUCT DEVELOPMENT



Client:

Sound Control Pty Ltd

Test Specimen:

Sonata 50 mm Panel

Frequency - Hz	Sound Reduction Index - dB	
	1/3 Octave	1/1 Octave
100	20	19
125	17	
160	23	
200	23	24
250	24	
315	27	
400	30	33
500	35	
630	37	
800	40	42
1000	43	
1250	45	
1600	46	47
2000	47	
2500	50	
3150	52	53
4000	53	
5000	54	
R_w (C;C_{tr})	37 (-2 ; -6)	

Australian Standards:

Measured according to AS 1191-2002
Rated to AS/NZS ISO 717.1:2004

Test Specimen Dimensions:

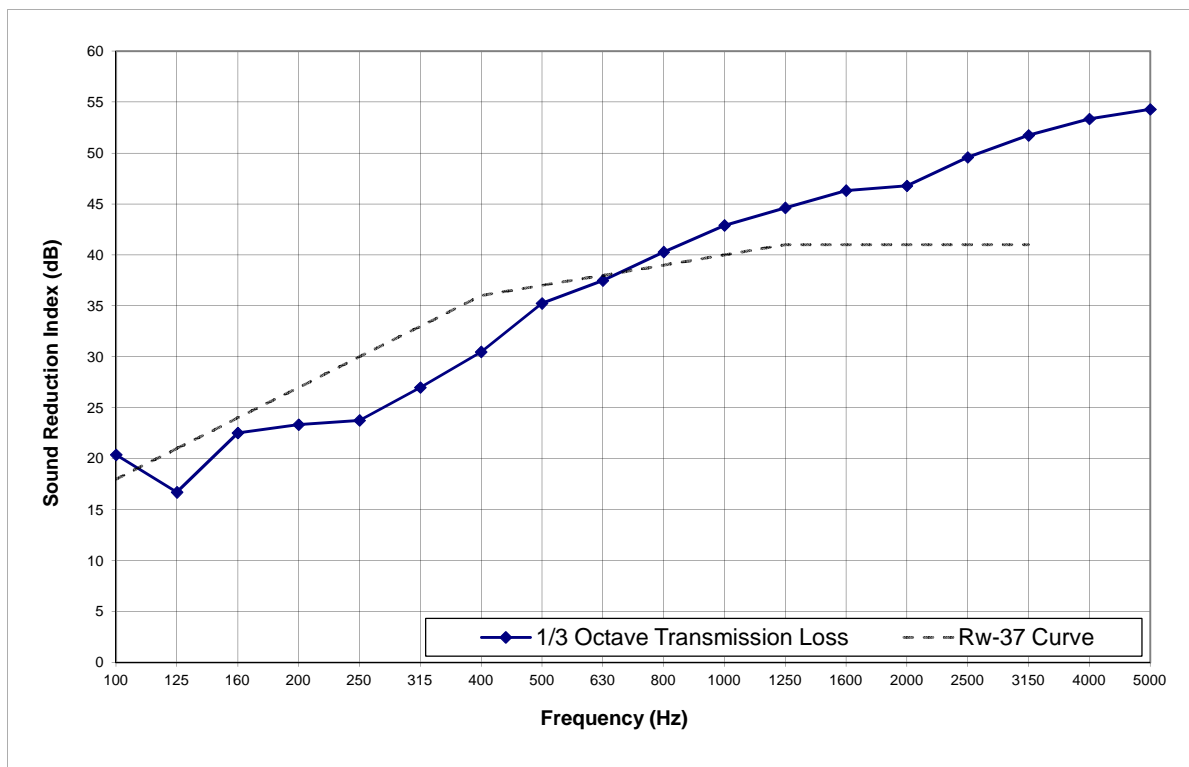
1.2 m (H) x 1.8 m (W)

Test Location:

Twin Reverberation Rooms
National Acoustic Laboratories
126 Greville Street, Chatswood NSW

Instrumentation:

Brüel and Kjær Pulse Analyser type 3560C
Brüel and Kjær Cathode Follower type 2660
Brüel and Kjær Cathode Follower type 2669
Brüel and Kjær Microphone type 4144 (x2)
Brüel and Kjær Microphone Power Supply type 2804
Brüel and Kjær Sound Level Calibrator type 4231
Yamaha Professional Sound Sources type S500



Date of Test: Tuesday, 1 November 2011
Project Number: 4725-13

Test Engineer: Alex Li, BE(Mech) Hons
For and on behalf of Day Design Pty Ltd

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AIRBORNE SOUND TRANSMISSION LOSS SOUND CONTROL PTY LTD SONATA 75 mm PANEL

REPORT NUMBER: 4725-12

PREPARED FOR: Sound Control Pty Ltd
61 Links Avenue North
Eagle Farm QLD 4009

Attention: Mr Rajeev Nand
Telephone: (07) 3268 4588

DATE ISSUED: 22 March 2012

Report Status	Prepared by: Alex Li	Approved by: Stephen Gauld
Final		

Document R\4725-r12.doc, 10 pages plus attachments



- AIRCRAFT, ROAD TRAFFIC AND TRAIN NOISE CONTROL
- ARCHITECTURAL ACOUSTICS • INDUSTRIAL NOISE AND VIBRATION CONTROL
- ENVIRONMENTAL NOISE IMPACT INVESTIGATION AND CONTROL
- OCCUPATIONAL NOISE INVESTIGATIONS • QUIET PRODUCT DEVELOPMENT



Client:

Sound Control Pty Ltd

Test Specimen:

Sonata 75 mm Panel

Frequency - Hz	Sound Reduction Index - dB	
	1/3 Octave	1/1 Octave
100	21	20
125	18	
160	23	
200	24	26
250	26	
315	29	
400	33	36
500	38	
630	40	
800	44	45
1000	46	
1250	46	
1600	47	48
2000	47	
2500	50	
3150	52	54
4000	55	
5000	55	
R_w (C;C_{tr})	39 (-2 ; -7)	

Australian Standards:

Measured according to AS 1191-2002
Rated to AS/NZS ISO 717.1:2004

Test Specimen Dimensions:

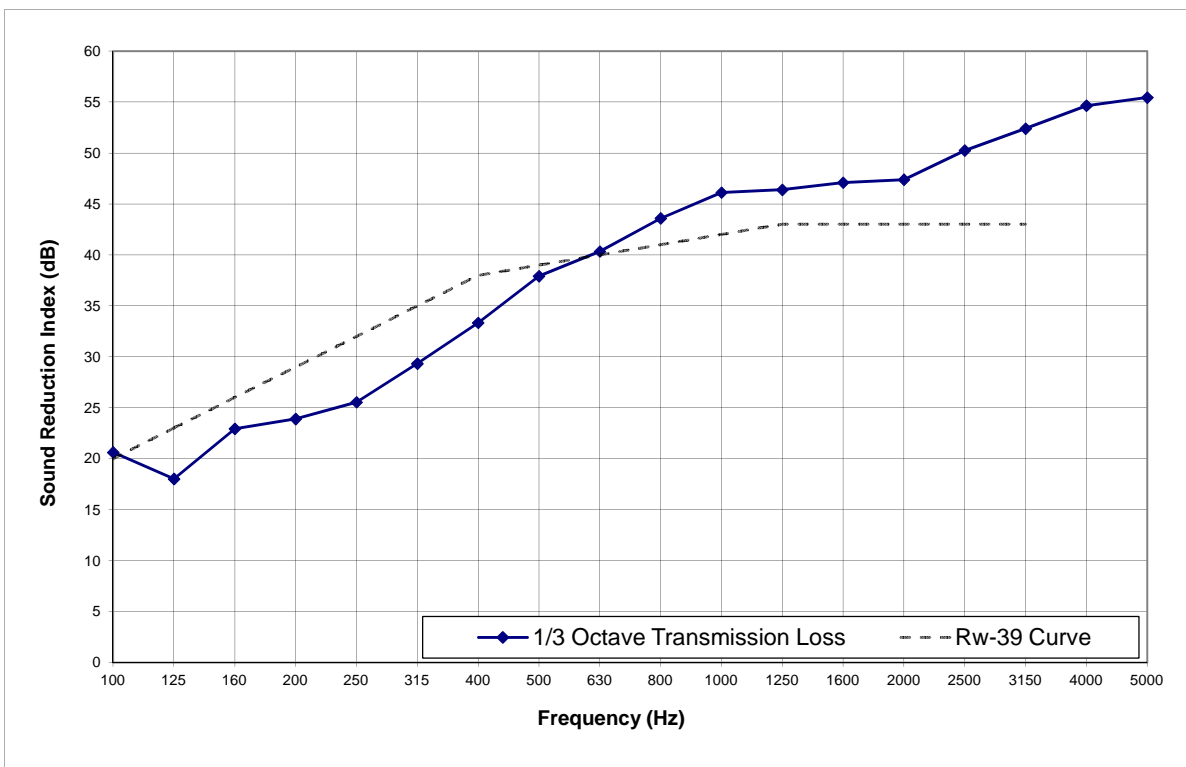
1.2 m (H) x 1.8 m (W)

Test Location:

Twin Reverberation Rooms
National Acoustic Laboratories
126 Greville Street, Chatswood NSW

Instrumentation:

Brüel and Kjær Pulse Analyser type 3560C
Brüel and Kjær Cathode Follower type 2660
Brüel and Kjær Cathode Follower type 2669
Brüel and Kjær Microphone type 4144 (x2)
Brüel and Kjær Microphone Power Supply type 2804
Brüel and Kjær Sound Level Calibrator type 4231
Yamaha Professional Sound Sources type S500



Date of Test: Monday, 31 October 2011
Project Number: 4725-12

Test Engineer: Alex Li, BE(Mech) Hons
For and on behalf of Day Design Pty Ltd



AIRBORNE SOUND TRANSMISSION LOSS
SOUND CONTROL PTY LTD
SONATA R_w - 41 100 mm STEEL WALL PANEL
(CAULKED)

REPORT NUMBER: 4454-1

PREPARED FOR: Sound Control Pty Ltd
61 Links Ave North
Eagle Farm QLD 4009

Attention: Mr Rajeev Nand
Telephone: (07) 3268 4588

DATE ISSUED: 19 May 2011

Report Status	Prepared by: Alex Li	Approved by: Stephen Gauld
Final		

Document R\4454-r1.doc, 10 pages plus attachments

Client:
Sound Control Pty Ltd

Test Specimen:
Sound Control Rw 41 Sonata 100mm
Steel Wall Panel caulked on both sides

Frequency - Hz	Sound Reduction Index - dB	
	1/3 Octave	1/1 Octave
100	21	20
125	18	
160	21	
200	26	29
250	30	
315	34	
400	37	39
500	39	
630	43	
800	48	52
1000	56	
1250	61	
1600	61	60
2000	57	
2500	70	
3150	61	61
4000	62	
5000	62	
R_w (C;C_{tr})	41 (-2 ; -8)	

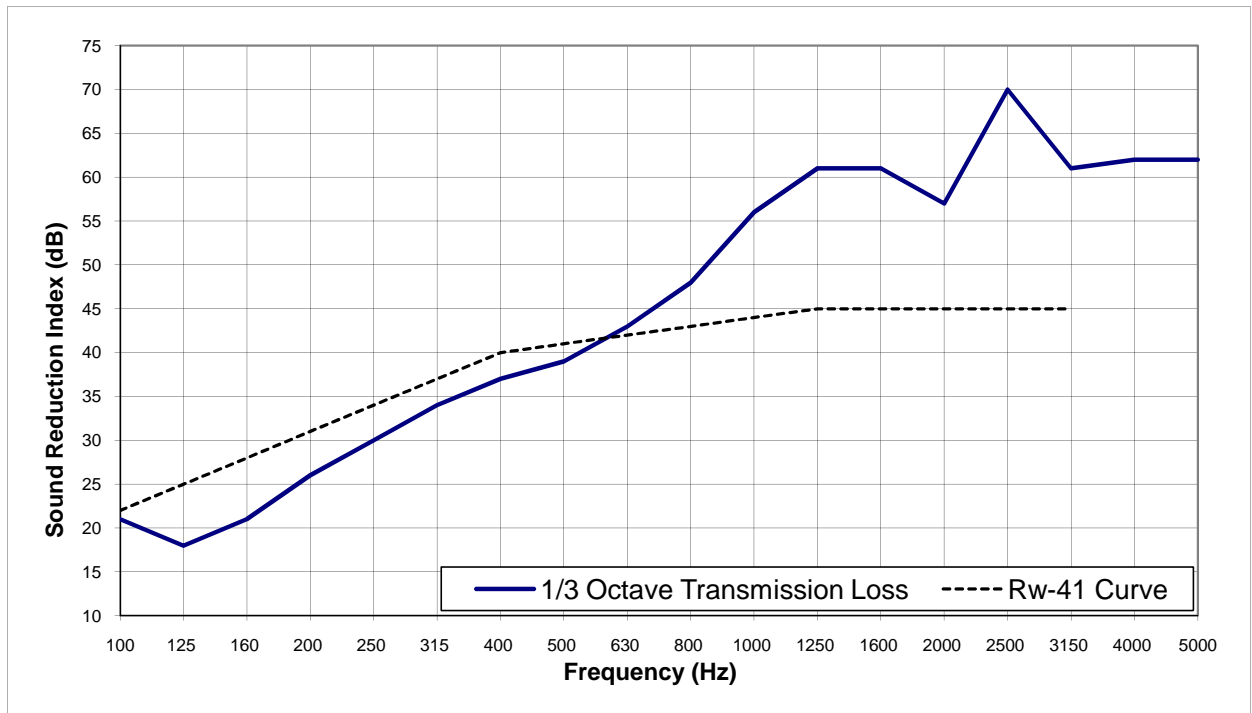
Australian Standards:
Measured according to AS 1191-2002
Rated to AS/NZS ISO 717.1:2004

Test Specimen Dimensions:
2120 mm (H) x 1010 mm (W)

Test Location:
Twin Reverberation Rooms
National Acoustic Laboratories
126 Greville Street, Chatswood NSW

Instrumentation:

- Brüel and Kjær Two Channel Pulse Analyser (assembly 2825, 7521, 2 x 3015)
- Brüel and Kjær Cathode Follower type 2639
- Brüel and Kjær Cathode Follower type 2669
- Brüel and Kjær Microphone type 4144
- Brüel and Kjær Sound Level Calibrator type 4231
- Yamaha Professional Sound Sources type S500



Date of Test: Tuesday, 31 August 2010
Project Number: 4454-1

Test Engineer: Alex Li, BE(Mech) Hons
For and on behalf of Day Design Pty Ltd