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THE SEAL OF THE LAND AND ENVIRONMENT COURT NEW SOUTH WALES

LAND AND ENVIRONMENT COURT OF NSW FILED ON 17 MAY 2022 INT

Acoustic Report

Proposed Child Care Centre
26 Beattie Avenue, Denistone East

Land and Environment Court
Blagojce Basevski v City of Ryde Council
186603 of 2021

This and the following 78 pages is the annexure marked "D" referred to in the Affidavit of Anthony Boskovitz sworn / ~~affirmed~~ at Edgecliff this 17th day of May 2022 before me

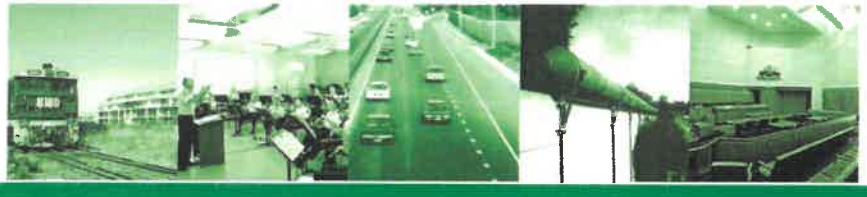
Solicitor / ~~Justice of the Peace~~

REPORT NUMBER
7460-1.1R

DATE ISSUED
6 May 2022

Prepared For:
Mr Balgojce Basevski
C/- Boskovitz Lawyers
Suite 110, 203-233 New South Head Road
Edgecliff NSW 2027

Attention: Mr Anthony Boskovitz



Revision History

Status	Date	Prepared	Checked	Comment
Final	06/05/2022	Stephen Gauld	Ben Lamont	For LEC

Document 7460-1.1R.docx, 28 pages plus attachments

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1.0 EXECUTIVE SUMMARY

1. Day Design Pty Ltd has been engaged by Boskovitz Lawyers on behalf of Blagojce Basevski to provide an expert Acoustic Report to assess the noise emission from the proposed Child Care Centre, at 26 Beattie Avenue, Denistone East for the purpose of an Appeal to the NSW Land and Environment Court – Blagojce Basevski v City of Ryde Council, 186603 of 2021.
2. I, Stephen Gauld, am the Managing Director and Principal Acoustical Engineer at Day Design Pty Ltd, Consulting Acoustical Engineers, of Suite 17, 808 Forest Road, Peakhurst, NSW, 2210.
3. A review of the relevant material for these matters has been carried out and I have read the documents provided to me, as listed in Paragraph 15.
4. An acoustic report has been prepared by NG Child and Associates to support the original proposal, however I have not relied on that or any other acoustic report.
5. This report and assessment has been prepared based on the architectural plans dated 13 November 2021.
6. This report presents my findings on my site inspection, acoustic analysis and recommendations to address the Contentions and limit the noise emission from the proposal at 26 Beattie Avenue, Denistone East to acceptable limits, based on the November 2021 plans.
7. The land at 26 Beattie Avenue, Denistone East is located on the western side of Beattie Avenue. Single storey residential dwellings adjoin the site to the north, south and west. A two storey residential dwelling is located further to the west in Haig Ave. Single storey residential dwellings are to the east on the opposite side of Beattie Avenue.
8. A site visit was carried out on Friday 11 March 2022 to inspect the site and to place a noise logger on the site. Observations were made of the surrounding residential dwellings and the location of windows and balconies.
9. The issues raised in Contention 4 Particular 4.2 regarding acoustics have been addressed in this report.
10. Recommendations are provided in Section 0 to ensure that the noise emission from the proposed Child Care Centre does not affect the acoustic amenity of the residential neighbours surrounding the site.
11. It is my opinion that the operation of the proposed Child Care Centre, together with the implementation of the recommendations in this report, will provide for an acceptable acoustic amenity for the residential neighbours surrounding the site.

2.0 INTRODUCTION

12. I, Stephen Gauld, Principal Acoustical Engineer and Managing Director of Day Design Pty Ltd, have been engaged by Mr Basevski to provide expert acoustic advice on the noise emission from the proposed Child Care Centre at 26 Beattie Avenue, Denistone East for the NSW Land and Environment Court (LEC) proceedings.

13. The Contentions relating to acoustics in the LEC proceedings that I have considered are:

    - Contention 4 Particular 4.2 – Amenity of the Centre
    - Contention B2 Particular 1.1(p) – Addendum Acoustic Assessment Report

14. In this report, I present my findings on the site inspection, acoustic measurements and recommendations made to address the Contention and limit the noise emission from the proposed Child Care Centre to acceptable limits.

15. I have read the documents provided to me, as listed below:

    - DA Drawings dated 13 November 2021 prepared by Archizen Architects Pty Ltd
    - Plan of Management, prepared by Ology Early Childhood Consulting, dated October 2021
    - Addendum Acoustic Assessment Report, prepared by NG Childs & Associates dated 3 November 2021
    - Amended Statement of Facts and Contentions, Blagojce Basevski v City of Ryde Council, 186603 of 2021, dated 4 February 2022
    - City of Ryde DCP 2014 – Part 3.2 – Child Care Centres
    - Association of Australasian Acoustical Consultants, Guideline for Child Care Centre Acoustic Assessment, Version 3 September 2020
    - Child Care Planning Guideline, NSW Planning and Environment, August 2017
    - SEPP (Educational Establishments and Child Care Facilities) 2017.

3.0 ABOUT THE AUTHOR

16. I, Stephen Gauld, am the Managing Director and Principal Acoustical Engineer at Day Design Pty Ltd, Consulting Acoustical Engineers, of Suite 17, 808 Forest Road, Peakhurst, NSW, 2210.

17. I have practiced as a Consulting Acoustical Engineer since December 1997. I was awarded my Bachelor of Engineering (Mechanical) in 1997 and my Masters of Engineering Science (Noise and Vibration) in 2007. My curriculum vitae is attached in Appendix B.

18. I have read Division 2, Part 31 of the Uniform Civil Procedure Rules 2005 and the Expert Witness Code of Conduct in Schedule 7. This report is prepared in accordance with these documents and I agree to be bound by their terms.

19. My evidence in this statement is within my area of expertise, except where I state that I have relied upon the evidence of another person.

4.0 PROJECT DESCRIPTION

20. The facts in Part A of the Statement of Facts and Contentions are accepted.

21. A two storey Child Care Centre for 64 children is proposed to be constructed at 26 Beattie Avenue, Denistone East in accordance with the amended plans (Rev A3) prepared by Archizen Architects Pty Ltd, dated 8 November 2021.

22. The proposed Child Care Centre will comprise four indoor play areas and a cot room, as follows:

    - Play Room 1 (ground floor) – 0-2 year old – 4 children;
    - Play Room 2 (ground floor) – 2-3 year old – 10 children;
    - Play Room 3 (first floor) – 3-5 year old – 30 children and;
    - Play Room 4 (first floor) – 3-5 year old – 19 children;

23. The proposal includes ground floor (GF) outdoor play area as follows:

    - Outdoor Play Area (GF) – for up to 64 x 0-5 year old children;

24. A car park with 14 parking spaces is proposed to be located on the basement level of the property with entry and exit from Beattie Avenue.

25. The proposed layout of the Child Care Centre can be seen in the floor plans dated November 2021 attached as Appendix E.

26. The land at 26 Beattie Avenue, Denistone East is located on the western side of Beattie Avenue. Single storey residential dwellings adjoin the site to the north south and west. A further Single story residential dwelling is located to the east on the opposite side of Beattie Avenue.

27. The nearest noise sensitive receptors to the site, in various directions, are shown on Figure 1 and as follows in Table 1.

Table 1 Noise Sensitive Residential Premises

Receptor Location	Address	Direction from site
R1a – Front yard R1b – Dwelling 1 R1c – Dwelling 2 R1d – Dwelling 3	24 Beattie Avenue	South
R2a – Front yard R2b – Side Entry Door R2c - Side Entry Door	28 Beatie Avenue	North
R3 – Rear yard	21 Haig Avenue	West
R4 – Rear yard	23 Haig Avenue	West
R5 – Rear Yard	25 Haig Avenue	West
R6 – Front Yard	27 Beattie Avenue	East

Figure 1 - Site Plan – 26 Beattie Avenue, Denistone East, NSW

5.0 CONTENTIONS

28. The contentions relevant to the determination of the development application DA 358/2020 relevant to acoustics are extracted from the Land and Environment Court of NSW, Case No. 2021/186603 Amended Statement of Facts and Contentions filed 4 February 2022 below.

29. **Contention B1.4 – Amenity Impacts - External** states:

The development application should be refused because the design, bulk and scale of the proposed development are excessive and would result in unacceptable impacts to neighbouring residential properties.

Particulars:

(a) The proposal has not demonstrated that the proposed top-opening hopper windows achieve both aims of providing adequate natural cross ventilation, and transmitting acceptable noise volumes to neighbouring properties

(b) The additional information provided in the Addendum Acoustic Assessment Report does not adequately predict the noise levels that will be produced when the top-opening hopper windows are open. The report states only that these design methods are effective without providing sufficient supporting evidence. Therefore it is unclear what the noise levels will be at the nearest residential receivers with this design in place.

30. **Contention B2.1 – Amended Acoustic Report** states:

The Amended acoustic report submitted in support of the subject development application is inadequate.

(a) The Amended acoustic assessment report outlines further noise reduction measures that will be put in place at the childcare center but does not quantify the specific impact on noise levels at sensitive receivers.

6.0 CITY OF RYDE DCP

31. City of Ryde Council, in its City of Ryde Development Control Plan (RDCP) 2014, – Part 3.2.4, Child Care Centres, includes Objectives and Design Principles and Controls relating to Acoustic & Visual Privacy.

(a) Noise impacts on neighbouring properties are to be minimised by design measures including:

I. Orientating the facility having regard to neighbouring property layout, including locating playroom windows and doorways away from neighbouring bedrooms and living areas;

II. Orientating playgrounds/outdoor play areas away from private open space areas, bedrooms and living areas on neighbouring residential properties (refer diagram below);

III. Using laminated or double glazing where necessary; and

IV. Designing fencing which minimises noise transmission and loss of privacy (e.g. lapped and capped timber fencing, brick).

(b) For freestanding child care centres in residential areas with a side boundary set back of less than 3 m, noise buffering measures should be considered such as allocating the internal rooms closest to the boundaries to be used for low noise generating uses, for example administration, storage, staff rooms, kitchen, to reduce potential noise impacts on adjoining property owners.

(c) Applicants may be required to submit an acoustic report prepared by a suitably qualified practitioner which includes recommendations for noise attenuation measures. The report must specify pre and post development noise levels and abatement measures.

(d) Roof and walls of the child care centre should be sound insulated.

(e) Elevated play and transition areas are to be avoided.

(f) Information about practical design measures incorporated in the design to minimise potential noise impact, including insulation and other acoustic elements, are to be identified in the Development Application.

(g) Location details of noise sources (such as air conditioning condenser units) are to be included in the Development Application.

(h) Information regarding how groups are proposed to be managed in the outdoor play spaces and where time will be spent, group sizes and how rotated may be required to be submitted with the Development Application.

7.0 RELEVANT GUIDELINES

7.1 AAAC's "Guideline for Child Care Centre Acoustic Assessment"

32. The Association of Australasian Acoustical Consultants (AAAC) published a guideline relating to the assessment of noise from Child Care Centres called "Guideline for Child Care Centre Acoustic Assessment", first in May 2008, again in October 2013 and most recently updated in September 2020.

33. Section 3 of the AAAC Guideline states the following in relation to noise attenuation and generation for Child Care Centres:

3.2 Criteria - Residential Receptors

3.2.1 Outdoor Play Area

The noise impact from children at play in a child care centre differs from the domestic situation in that it is a business carried out for commercial gain, the number of children can be far greater than in a domestic situation and the age range of the children at the centre does not significantly vary over time as it would in a domestic situation. However, the noise from children is vastly different, in both character and duration, from industrial, commercial or even domestic machine noise. The sound from children at play, in some circumstances, can be pleasant, with noise emission generally only audible during the times the children play outside. Night time, weekend or public holiday activity is not typical and child care centres have considerable social and community benefit.

Base Criteria *– With the development of child care centres in residential areas, the background noise level within these areas can at certain times, be low. Thus, a base criterion of a contributed* $L_{eq,15min}$ *45 dB(A) for the assessment of outdoor play is recommended in locations where the background noise level is less than 40 dB(A).*

Background Greater Than 40 dB(A) *– The contributed* $L_{eq,15min}$ *noise level emitted from an outdoor play and internal activity areas shall not exceed the background noise level by more than 5 or 10 dB at the assessment location, depending on the usage of the outdoor play area. AAAC members regard that a total time limit of approximately 2 hours outdoor play per morning and afternoon period should allow an emergence above the background of 10 dB (ie background +10 dB if outdoor play is limited to 2 hours in the morning and 2 hours in the afternoon).*

Up to 4 hours (total) per day *– If outdoor play is limited to no more than 2 hours in the morning and 2 hours in the afternoon, the contributed* $L_{eq,15min}$ *noise level emitted from the outdoor play shall not exceed the background noise level by more than 10 dB at the assessment location.*

More than 4 hours (total) per day *– If outdoor play is not limited to no more than 2 hours in the morning and 2 hours in the afternoon, the contributed* $L_{eq,15min}$ *noise level*

emitted from the outdoor play area shall not exceed the background noise level by more than 5 dB at the assessment location.

The assessment location is defined as the most affected point on or within any residential receiver property boundary. Examples of this location may be:

- *1.5 m above ground level;*
- *On a balcony at 1.5 m above floor level;*
- *Outside a window on the ground or higher floors.*

34. Section 3.2.2 of the AAAC Guideline states the following in relation to the impact of noise from other sources within the proposal:

Indoor Play Area, Mechanical Plant, Pick up and Drop off

The cumulative $L_{eq,15\ minute}$ noise emission level resulting from the use and operation of the child care centre, with the exception of noise emission from outdoor play discussed above, shall not exceed the background noise level by more than 5 dB at the assessment location as defined above. This includes the noise emission resulting from:

- *Indoor play;*
- *Mechanical plant;*
- *Drop off and pick up;*
- *Other activities/operations (not including outdoor play).*

35. Section 5 of the AAAC Guideline states the following in relation to the impact of external noise on Children:

Road, Rail Traffic and Industry

The $L_{Aeq,1hr}$ noise level from road traffic, rail or industry at any location within the outdoor play or activity area during the hours when the Centre is operating should not exceed 55 dB(A).

The $L_{Aeq,1hr}$ noise level from road traffic, rail or industry at any location within the indoor activity or sleeping areas of the Centre during the hours when the centre is operating shall be capable (ie with doors and / or windows closed) of achieving 40 dB(A) within indoor activity areas and 35 dB(A) in sleeping areas.

7.2 EPA's "Road Noise Policy"

36. The EPA's NSW Road Noise Policy, March 2011 provides noise criteria in Section 2.3.1 that requires the noise impact generated by additional traffic on local roads from the proposed child care site to not exceed $L_{eq,(1\ hour)}$ 55 dBA at the façade of existing residences during the day, and $L_{eq,(1\ hour)}$ 50 dBA during the night.

7.3 EPA's "Noise Policy for Industry"

37. An assessment method for sleep disturbance relating to activity before 7 am or after 10 pm, such as the arrival of staff before 7 am, is found in Section 2.5 of the EPA's Noise Policy for Industry. In summary, the criteria is:

    (a) $L_{Aeq,15\ min}$ 40 dBA or the prevailing RBL + 5 dB, whichever is greater, and/or

    (b) L_{AFmax} 52 dBA or the prevailing RBL + 15 dB, whichever is greater.

8.0 STATE LEGISLATION

8.1 SEPP (Educational Establishments and Child Care Facilities) 2017

38. Clause 23 of the SEPP (Childcare) 2017 requires Consent authorities to take into consideration any applicable provisions of the Child Care Planning Guideline, in relation to the proposed development.

8.2 Child Care Planning Guideline

39. NSW Planning and Environment published the Child Care Planning Guideline in August 2017.

40. Section 3.5 of the Guideline refers to Visual and Acoustic Privacy.

41. Section 3.6 of the Guideline refers to Noise and Air Pollution.

42. This Acoustic Report has taken into consideration the requirements in the SEPP (Childcare) 2017 and Child Care Planning Guideline.

9.0 NOISE CRITERIA

9.1 L_{90} Background Noise Level

43. The AAAC Guideline requires a pre-existing L_{A90} background noise level to be determined.

44. A procedure for determining the Rating Background Level is given in Fact Sheet A of the Noise Policy for Industry, published by the EPA in October 2017. This procedure is used.

45. The noise logger location is identified in Figure 1 as 'Noise Logger'.

46. The logger data is graphically shown in Appendix C and summarised in Table 2.

Table 2 Rating Background Levels

Noise Measurement Location	Time Period	RBL
Noise Logger	Early Morning (6.30 am to 7 am)	56 dBA
Rear of 26 Beattie Avenue	**Day (7 am to 6 pm)**	**34 dBA**

9.2 Intrusiveness

47. In accordance with the AAAC Guideline the noise criteria for noise emission from the site are as follows:

Table 3 Noise Criteria

Receptor Location	Rating Background Level applied	Noise Criteria: Outdoor Play Area	Noise Criteria: Other Noise Emission
R1a – Front yard	34 dBA	45 dBA	39 dBA
R1b – Side windows		45 dBA	39 dBA
R1c - Side windows		45 dBA	39 dBA
R1d - Side windows		45 dBA	39 dBA
R2a – Front yard	34 dBA	45 dBA	39 dBA
R2b - Side entry door		45 dBA	39 dBA
R2c - Side entry door		45 dBA	39 dBA
R3 – Rear yard	34 dBA	45 dBA	39 dBA
R4 – Rear yard	34 dBA	45 dBA	39 dBA
R5 – Rear Yard	34 dBA	45 dBA	39 dBA
R6 – Front Yard	34 dBA	45 dBA	39 dBA

48. The location for the assessment of noise from the proposal is in accordance with the AAAC Guideline:

- 1.5 m above ground level, or
- on a balcony/deck at 1.5 m above floor level, or
- outside a window on the ground or higher floors.

9.3 Internal Noise – Sleeping Rooms

49. The AAAC Guideline requires the internal noise level from road traffic to be $L_{Aeq,\ 1\ hour}$ 35 dBA in sleeping rooms.

50. The cot room on the ground floor of the proposal is considered to be a sleeping room.

51. All other rooms within the proposed Centre are not primarily utilised for sleeping.

9.4 Internal Noise – Play Rooms

52. The AAAC Guideline requires the internal noise level from road traffic to be $L_{Aeq,\ 1\ hour}$ 40 dBA in indoor activity areas.

9.5 External Noise – Playgrounds and Activity Areas

53. The AAAC Guideline requires the external noise level in outdoor play or activity areas to be $L_{Aeq,\ 1\ hour}$ 55 dBA.

9.6 Sleep Disturbance

54. In accordance with Section 2.5 of the EPA's Noise Policy for Industry, and applying the RBL from Noise Logger 3, the sleep disturbance criteria is:

(a) $L_{Aeq,15\ min}$ (45+5) 50 dBA, and/or

(b) L_{AFmax} (45+15) 60 dBA.

55. In this instance consideration is given to the potential for sleep disturbance from the noise associated with two staff vehicles entering the car park between 6.30 am and 7 am.

9.7 Traffic External to the Site

56. The EPA's NSW Road Noise Policy, March 2011 provides noise criteria for additional traffic on local roads from the proposed child care site:

(a) $L_{Aeq,1\ hour}$ 55 dBA at the façade of existing residences during the day.

10.0 CHILD CARE CENTRE NOISE EMISSION

57. The main sources of noise from the proposed Child Care Centre will be as follows:
    - Children playing both outside and inside; and
    - Mechanical plant; and
    - Cars entering and leaving the car park.
58. I have assessed the noise impact from the mechanical plant, car park and indoor play areas independently from the outdoor play areas in accordance with the AAAC Guideline.
59. The noise assessment was based on the amended drawings dated 8 November 2021, attached as Appendix E.
60. Acoustic fencing is required around the outdoor play areas as marked up in Appendix A.
61. All proposed acoustic fencing is to be constructed free of visible air gaps to provide an impervious sound barrier. Suitable materials may be masonry, lapped and capped timber, or 10 mm solid perspex (or similar).
62. The heights of the acoustic fencing shown in the amended drawings have been incorporated in the calculations in this Section.

10.1 Noise Emission from Outdoor Play Areas

63. The proposed Child Care Centre will have a capacity of 64 children. The noise emission from the Child Care Centre will be highest when the children are playing outside during the day.
64. The noise predictions were determined by spacing the children into groups according to age and their corresponding outdoor play areas. The locations of these groups are shown in Appendix A.
65. The recommended $L_{eq,\,15\ minute}$ sound power levels (SWL) of children are documented in the AAAC's 'Guideline for Child Care Centre Acoustic Assessment' document published September 2020.
66. The single figure SWL for each age group for children engaged in active play is presented in the first three rows of data in Table 4.
67. The fourth row of data in Table 4 relates to children engaged in quiet play, which is 6 dB less than children engaged in active play.

Table 4 Children at Play - $L_{eq,\ 15\ minute}$ Sound Power Levels

Number and Age of Children	Sound Power Levels (dB) at Octave Band Centre Frequencies (Hz)								
	dBA	63	125	250	500	1k	2k	4k	8k
10 children, 0 to 2 years	**78**	54	60	66	72	74	71	67	64
10 children, 2 to 3 years	**85**	61	67	73	79	81	78	74	70
10 children, 3 to 5 years	**87**	64	70	75	81	83	80	76	72
10 children, 3 to 5 years passive (quiet) play	**81**	58	62	68	75	77	74	70	66

68. The octave band centre frequency figures are useful in calculating the heights of barriers required as an acoustic barrier will attenuate low frequency sound differently than high frequency sound.

69. The children in the outdoor play area on the ground floor may consist of one of the following two scenarios. The restrictions to outdoor play time have been incorporated into the calculations and represented in the recommendations in Section 0.

Scenario 1

a. 5 x 0-2 yr old children; and

b. 10 x 2-3 yr old children and

c. 20 x 3-5 yr old children at any time.

Scenario 2

d. 25 x 3-5 yr old children.

70. Based on the restriction to outdoor play above, the predicted $L_{eq,\ 15\ minute}$ noise levels are calculated to be as shown below in Table 5.

Table 5 Predicted $L_{eq,\ 15\ minute}$ Noise Levels - Outdoor Play

Receptor Location	Predicted Noise Level (dBA)	Noise Criteria (dBA)	Compliance (Yes/No)
R1a – Front yard R1b – Side windows R1c - Rear yard R1d - Rear yard	38 dBA 40 dBA 45 dBA 44 dBA	45 dBA	Yes
R2a – Front yard R2b - Western window R2c - Rear yard	37 dBA 44 dBA 44 dBA	45 dBA	Yes
R3 – Rear yard	41 dBA	45 dBA	Yes
R4 – Rear yard	45 dBA	45 dBA	Yes
R5 – Rear Yard	45 dBA	45 dBA	Yes
R6 – Front Yard	26 dBA	45 dBA	Yes

71. Calculations to support the predicted noise levels are shown in Appendix D1-11.

72. The predicted levels of noise in Table 5 comply with the noise criteria in Table 3.

10.2 Noise Emission from Indoor Play Areas

73. Ground floor playrooms are provided with glazed sliding doors that face the outdoor play area are to the north west.

74. All playrooms have operable windows that face the either the north, west or south.

75. The noise emission from all the children playing in their respective playrooms according to age has been calculated to the nearest and most affected receptor of each playroom.

76. Windows and hinged doors directly facing the associated outdoor area are assumed to be closed.

77. The following windows and skylights are assumed to be open for ventilation:

    (a) Sliding doors to the ground floor play rooms 1 and 2;

    (b) Skylights to first floor Playroom 3;

    (c) Skylights to first floor Playroom 4; and

    (d) Windows facing northwest on Playroom 3 and 4.

78. The predicted $L_{eq,\ 15\ minute}$ noise levels from the children playing inside the centre's playrooms is calculated with the sliding doors closed and are shown in Table 6.

Table 6 Predicted $L_{eq,\ 15\ minute}$ Noise Levels - Indoor Play

Receptor Location	Predicted Noise Level (dBA)	Noise Criteria (dBA)	Compliance (Yes/No)
R1a – Front yard R1b – Side windows R1c - Rear yard R1d - Rear yard	24 dBA 34 dBA 38 dBA 31 dBA	39 dBA	Yes
R2a – Front yard R2b - Western window R2c - Rear yard	17 dBA 24 dBA 39 dBA	39 dBA	Yes
R3 – Rear yard	33 dBA	39 dBA	Yes
R4 – Rear yard	37 dBA	39 dBA	Yes
R5 – Rear Yard	20 dBA	39 dBA	Yes
R6 – Front Yard	16 dBA	39 dBA	Yes

79. Calculations to support the predicted noise levels are shown in Appendix D12-D42.

80. The predicted noise levels from indoor play are within the daytime noise criteria in Table 6 and are therefore acceptable.

10.3 Car Park Noise Emission

81. The RTA Guidelines, "Guide to Traffic Generating Developments" provide the following traffic generation for long-day Child Care Centres:

    (a) 7-9 am 0.8 x number of enrolled children (64) = 51 vtph

    (b) 4-6 pm 0.7 x number of enrolled children (64) = 45 vtph.

82. These figures equate to a maximum flow of cars of 13 vehicle trips in 15 minutes entering or leaving the Child Care Centre car park, which may occur in the morning.

83. The SEL sound power level and spectrum of such noise was previously measured by Day Design for cars travelling slowly uphill, exiting the carpark and is given below in Table 7.

Table 7 Car Park - SEL Sound Power Levels

Description	Sound Power Levels (dB) at Octave Band Centre Frequencies (Hz)								
	dBA	63	125	250	500	1k	2k	4k	8k
Car drive uphill at approximately 10 km/h	**82**	90	87	80	78	77	72	70	64

84. The noise level from 13 cars exiting the basement car park in 15 minutes has been calculated at the front yard of Receptors R2a being the most affected residential premises. All other receptors will be less affected.

85. The predicted $L_{eq,\ 15\ minute}$ noise level from cars entering and exiting the car park is calculated to be as shown in Table 8.

Table 8 Predicted $L_{eq,\ 15\ minute}$ Noise Levels – Car Park

Receptor Location	Predicted Noise Level (dBA)	Noise Criterion (dBA)	Compliance (Yes/No)
R2a – 28 Beattie Avenue, Front	36 dBA	39 dBA	Yes

86. Calculations to support the predicted noise level are shown in Appendix D43.

87. The predicted external levels of noise from cars exiting the car park are within the noise criteria in Table 8 and are therefore acceptable.

10.4 Cumulative Noise Emission

88. The predicted $L_{eq,\ 15\ minute}$ noise levels from children playing inside the centre's playrooms, mechanical plant and traffic accessing the centre is shown in Table 9.

Table 9 Predicted $L_{eq,\ 15\ minute}$ Noise Levels - Cumulative

Receptor Location	Predicted Noise Level (dBA)	Noise Criteria (dBA)	Compliance (Yes/No)
R1a – Front yard R1b – Side windows R1c - Rear yard R1d - Rear yard	38 dBA 37 dBA 39 dBA 33 dBA	39 dBA	Yes
R2a – Front yard R2b - Western window R2c - Rear yard	38 dBA 38 dBA 39 dBA	39 dBA	Yes
R3 – Rear yard	34 dBA	39 dBA	Yes
R4 – Rear yard	38 dBA	39 dBA	Yes
R5 – Rear Yard	28 dBA	39 dBA	Yes
R6 – Front Yard	37 dBA	39 dBA	Yes

89. The predicted noise levels from children playing inside the centre's playrooms, mechanical plant and traffic are within the daytime noise criteria in Table 9 and are therefore acceptable.

10.5 Sleep Disturbance

90. For the assessment of sleep disturbance from car park activity I have assumed two staff members will arrive at the Child Care Centre prior to 7 am and park in the basement car park. Additional cars arriving prior to 7 am would not increase the L_{max} noise level.

91. The $L_{AF,max}$ and SEL sound power levels and spectra of cars passing have been previously measured by Day Design and is given below in Table 10.

Table 10 Car Park - Sound Power Levels (Sleep Disturbance)

Description	Sound Power Levels (dB) at Octave Band Centre Frequencies (Hz)								
	dBA	63	125	250	500	1k	2k	4k	8k
$L_{AF,max}$ car passby	**92**	98	90	92	88	88	83	80	76
SEL car passby	**82**	90	87	80	78	77	72	70	64

92. The predicted $L_{AF,max}$ and $L_{eq,15min}$ noise level at receptor R2a, directly adjacent to the basement driveway, being the most affected residential premises due to car entering the car park, is shown in Table 11.

Table 11 Predicted Noise Levels - Sleep Disturbance

Receptor Location	Predicted Noise Level (dBA)	Noise Criteria (dBA)	Compliance (Yes/No)
R2a – 28 Beattie Avenue, Front	$L_{eq,15min}$ 23 L_{max} 56	$L_{eq,15min}$ 61 L_{max} 60	Yes

93. Calculations to support the predicted noise levels are shown in Appendix D26.

94. The predicted $L_{AF,max}$ and $L_{Aeq,\ 15\ minute}$ level of noise from cars entering the car park are within the noise criteria, and are therefore acceptable.

10.6 Mechanical Plant

95. The architectural drawings indicate there will be a lift shaft on the eastern side of the proposed building. I have therefore assumed the lift motor (sound power level [SWL] 65 dBA) will be located in this area. (Drawing LEC-02, LEC-03, LEC-04)

96. The architectural drawings also indicate a basement car park and bin area on the south façade. I have allowed for a car park exhaust fan (SWL 85 dBA) and two air conditioning condensers (SWL 80 dBA) located in the basement. (Drawing LEC-02, LEC-03) The condensers are not shown, however I recommend they are fixed to the south wall at high level adjacent to Staff Parking space 14.

97. I have assumed there will be a domestic kitchen rangehood exhaust fan (SWL 65 dBA) serving the kitchen and a laundry exhaust fan (SWL 65 dBA) serving the ground floor laundry. Several small toilet exhaust fans will be located in the vicinity of each toilet block (SWL 65 dBA). (Drawing LEC-03)

98. The mechanical plant has not been finalised yet and I have therefore assumed typical noise levels used on similar developments.

99. I recommend a detailed analysis be carried out once the mechanical plant selection is finalised prior to the issue of a Construction Certificate.

10.7 On – Road Traffic

100. Cars will enter and exit the car park and park in one of the visitor parking spots to drop off and collect children from the centre.

101. I have assumed there will be 52 trips (26 in and 26 out) in a one hour period.

102. All cars will enter and exit the site from Beattie Avenue and are all assumed to pass by the front façade of the residence at R1 or R2.

103. A sound power level of SEL 87 dBA for a single car passby has been used for vehicles travelling at 30 km/h, based on measurements carried out by Day Design.

104. The external $L_{eq,\,1\,hour}$ noise levels at the front façade of R1 and R2, from noise associated with on – road traffic throughout the day is calculated to be as shown below in Table 12.

Table 12 Predicted $L_{eq,\,1\,hour}$ Noise Levels – On – Road Traffic

Receptor Location	Predicted Noise Level (dBA)	Noise Criteria (dBA)	Compliance (Yes/No)
R1 – 24 Beattie Avenue	47	55	Yes
R2 – 28 Beattie Avenue	46	55	Yes

105. Calculations to support the predicted noise level are shown in Appendix D25.

106. A façade correction of +2.5 dB is included in the predicted noise level

107. The predicted external level of noise from on – road traffic is within the noise criterion in Paragraph 56, and is therefore acceptable.

11.0 RECOMMENDED ACOUSTICAL TREATMENT

108. The following acoustic attenuation measures are recommended.

11.1 Sound Barrier Walls

109. All predicted noise levels in Section 10.0 assume the acoustic barriers nominated in Appendix A have been included in the proposed design. In summary the barriers proposed are:

(a) 2.0 m high barrier (above the TOW shown on Dwg LEC-01) to the north eastern side of the ground floor outdoor play area;

(b) 2.0 m high barrier to the north western boundary of the site;

(c) 2.4 m high barrier (above the TOW shown on Dwg LEC-01) to the south western side of the ground floor outdoor play area;

(d) 1.8 m high fences on the north eastern and south western boundaries, tapering to 1.2 m within 5 m of the front boundary.

11.2 Ventilation

110. Indoor play rooms may be ventilated via

(a) Sliding doors to the ground floor play rooms 1 and 2;

(b) Skylights to first floor Playroom 3;

(c) Skylights to first floor Playroom 4; and

(d) Windows facing northwest on Playroom 3 and 4.

11.3 Plan of Management

111. The number of children playing outdoors should be limited to one of the following scenarios to achieve the outdoor noise criteria:

Scenario 1

a. 5 x 0-2 yr old children; and

b. 10 x 2-3 yr old children and

c. 20 x 3-5 yr old children at any time.

Scenario 2

d. 25 x 3-5 yr old children.

11.4 Mechanical Plant Assessment at CC Stage

112. I recommend a detailed noise impact assessment be carried out once the mechanical plant selection is finalised prior to the issue of a Construction Certificate.

12.0 NOISE IMPACT STATEMENT

113. Day Design Pty Ltd was engaged by Boskovitz Lawyers on behalf of Blagojce Basevski, to carry out an acoustic assessment of a proposed Child Care Centre at 26 Beattie Avenue, Denistone East, NSW.

114. Calculations show that, provided the acoustic barriers nominated on Appendix A are constructed and the recommendations in Section 11.0 of this report are implemented and adhered to, the level of noise emitted by the proposed Child Care Centre at 26 Beattie Avenue, Denistone East, NSW, will meet the noise level requirements as detailed in Section 9.0 of this report and be considered acceptable.

Stephen Gauld, MEngSc (Noise and Vibration), BE(Mech), MIEAust, MAAS

Principal Acoustical Consultant

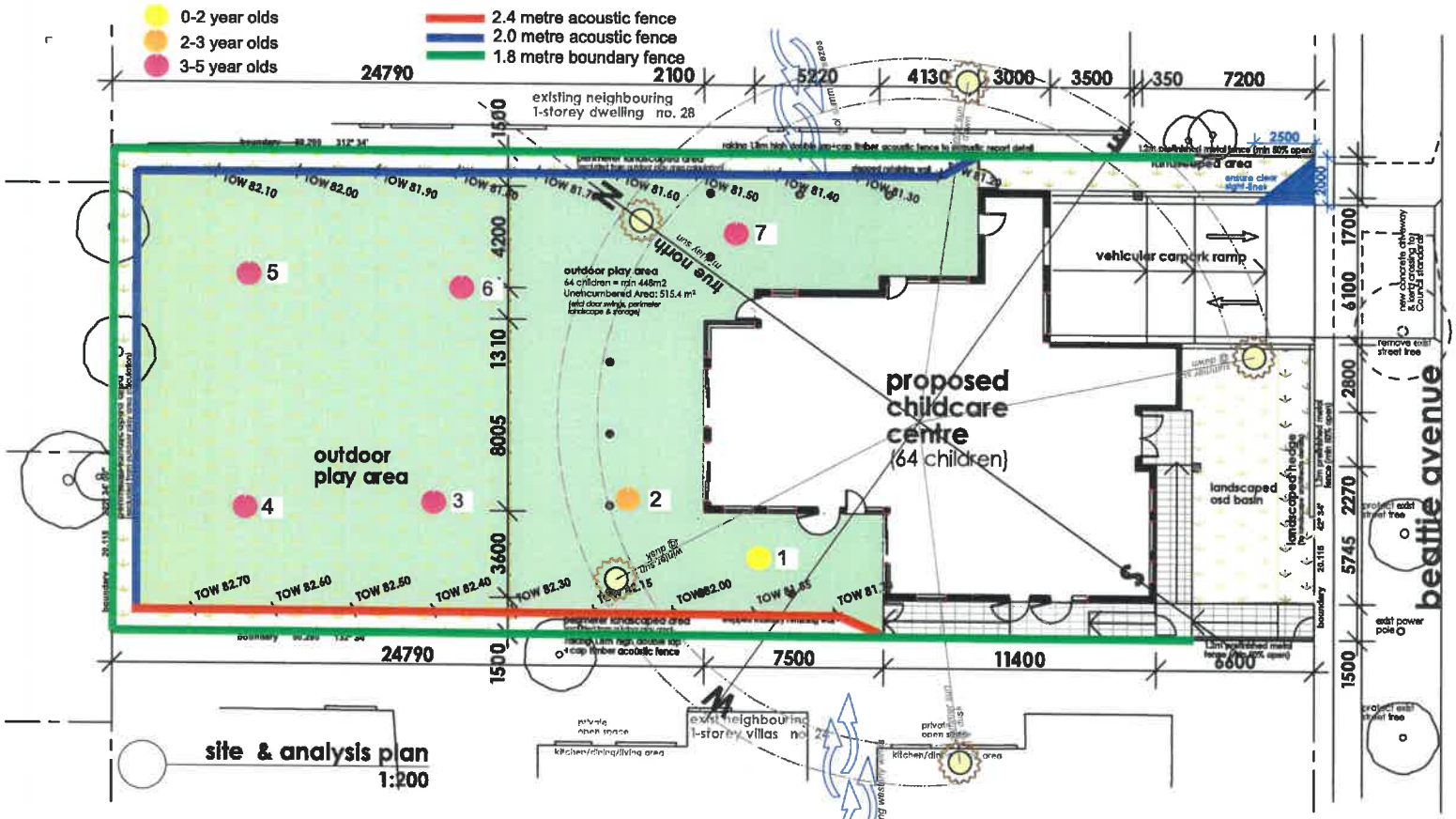
for and on behalf of Day Design Pty Ltd

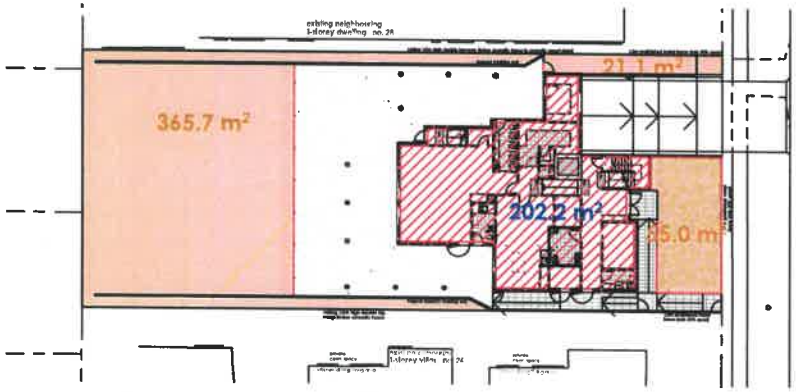
AAAC MEMBERSHIP

Day Design Pty Ltd is a member company of the Association of Australasian Acoustical Consultants, and the work herein reported has been performed in accordance with the terms of membership.

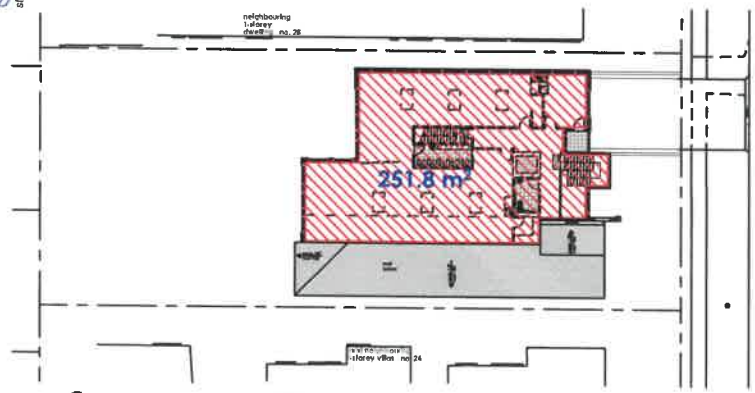
APPENDICES

- Appendix A – Marked up Site Plan
- Appendix B – Stephen Gauld's CV
- Appendix C – Ambient Noise Survey – 26 Beattie Avenue – rear yard
- Appendix D – Calculations
- Appendix E – Architectural Plans dated November 2021





gfa: ground floor



gfa: upper floor

7460-1 Appendix A

site calculations:

total site area: 1012 m²

floor areas:

basement floor area	0 m²
ground floor area	202.2 m²
upper floor area	251.8 m²
proposed gross floor area	**454.0 m²**

proposed FSR: 454/1012 m² = 0.45:1
note: DCP max FSR = 0.5:1

deep soil area: 442/1012 m² = 44%
note: DCP min deep soil = 35%

proposed child accomodation & staff:

0-2 yr olds:	5 babies/4 =	2 staff
2-3 yr olds:	10 toddlers/5 =	2 staff
3-5 yr olds:	49 pre-schoolers/10 =	5 staff
Total:	*64 Children*	*9 Staff*

car parking: provided = 14 cars
note: DCP min parking: 1/8 children = 8
1/2 staff = 4.5
Total Parking Spaces Reqd 13 Cars

min. children's unencumbered indoor area:

playroom 1 (5 babies):	min 16.3 m²
playroom 2 (10 toddlers):	min 32.5m²
playroom 3 (30 pre-schoolers):	min 97.5 m²
playroom 4 (19 pre-schoolers):	min 61.8 m²

min. children's unencumbered outdoor area:
rear outdoor area (64 children): min 448 m²

children's amenities:

junior toilet pans: provided = 12
notes: BCA requires 1/15 kids = 5
ACEQEA guide = 1 + 1/8kids > 2yrs = 9

junior basins: provided = 12
notes: BCA requires 1/15 kids = 5
ACEQEA guide = 1/toilet pan = 9

kids shower: provided = 1
notes: BCA requires 1 bath or shower bath

baby bath/nappy change: provided = 2
notes: BCA requires 1 baby bath for kids < 3yrs
ACEQEA guide = 1 nappy change/10 kids < 3yrs

laundry: provided = 1
note: BCA F2.3 requires washing machine + tub

kitchen/food prep: provided = 1
note: BCA F2.3 requires sink (with hot water), stove, fridge + microwave

rev / date	description	status
A 08-10-2021	for L&EC submission only.	not for construction
A1 14-10-2021	revised. for L&EC submission only.	not for construction
A2 21-10-2021	revised. for L&EC submission only.	not for construction
A3 08-11-2021	revised. for L&EC submission only.	not for construction

PLANNING APPLICATION NOTICE
This drawing is only suitable for Planning Application purposes. It MUST NOT be used for construction. ArchiZEN Architects accept no responsibility for its correctness or completeness, as all information shown hereon is subject to a co-ordination check and Council and other Authority requirements.

general notes
use figured dimensions only. do not scale from drawings.
dimensions are in millimetres (unless noted otherwise).
verify all dimensions & levels on site before construction.
report all discrepancies to the architect. if in doubt - ASK.
all work must comply with NCC/BCA, standards & authority codes
read this drawing together with other consultants documents.
structural, hydraulic & geotechnical work to engineers details.

archizen ARCHITECTS
Nominated Architect: ADRIAN ZENERE Registration Board No. 5457
848 king georges road south hurstville nsw
po box 80 south hurstville nsw australia 2221
t 61 2 9546 8988 e info@archizen.com.au
w www.archizenarchitects.com.au

project
proposed childcare centre
26 beattie avenue
denistone east
drawing
site, analysis & gfa plans

scale	1:200@ A3 true north
drawn	CAD
designed	ADZ
checked	ADZ
plot date	13/11/21
project no.	drwg no. issue
	1945A LEC-01 A3

DAY DESIGN PTY LTD
CONSULTING ACOUSTICAL ENGINEERS

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P. 02 9046 3800 ACOUSTICS@DAYDESIGN.COM.AU WWW.DAYDESIGN.COM.AU

Curriculum Vitae

Stephen Gauld

Stephen Gauld is the Managing Director of Day Design Pty Ltd and works in a technical capacity as the Principal Acoustical Engineer. Stephen provides oversight on all projects and checks the majority of the reports that leave the office. He manages the larger projects and provides training to staff in acoustic measurement and noise control design. Sound level meters and long-term noise monitors are used in the field to measure different types of noise sources and computer software is used to analyse and design noise control.

Qualifications:

Bachelor of Engineering (Mechanical),
University of New South Wales (1997)

Masters of Engineering Science (Noise & Vibration),
University of New South Wales (2007)

Memberships:

Member - Institution of Engineers Australia (2001)

Member - Australian Acoustical Society (2001)

Corporate Member – Association of Australian Acoustical Consultants

Professional Experience:

February 2004 - Present
Managing Director and Principal Acoustical Engineer
Day Design Pty Ltd

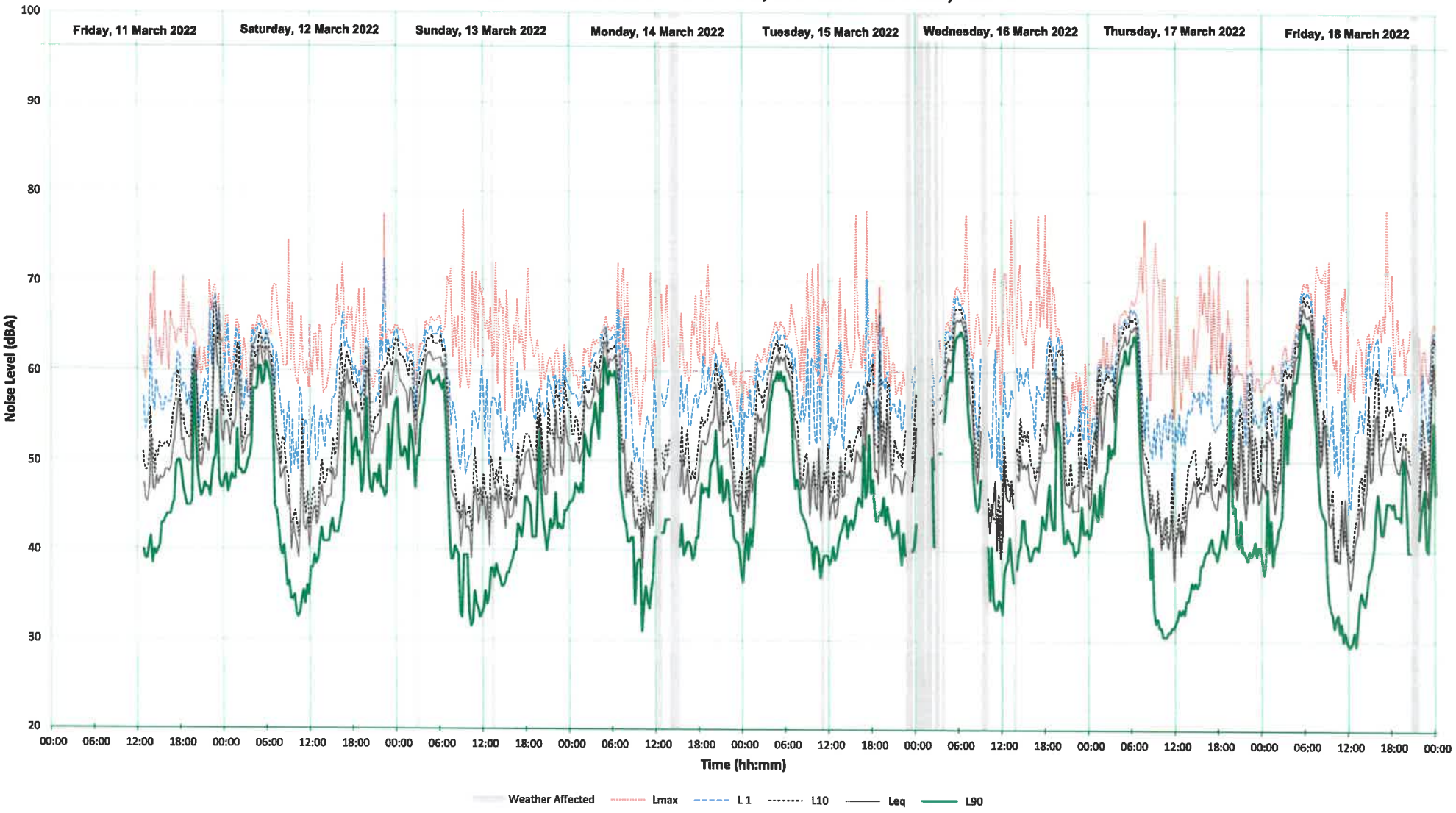
October 1998 – February 2004
Consulting Acoustical Engineer
Day Design Pty Ltd

November 1997 – October 1998
Acoustical\Quality Engineer
Acoustic Dynamics Pty Ltd, Glebe, NSW
Consulting Acoustical Engineers

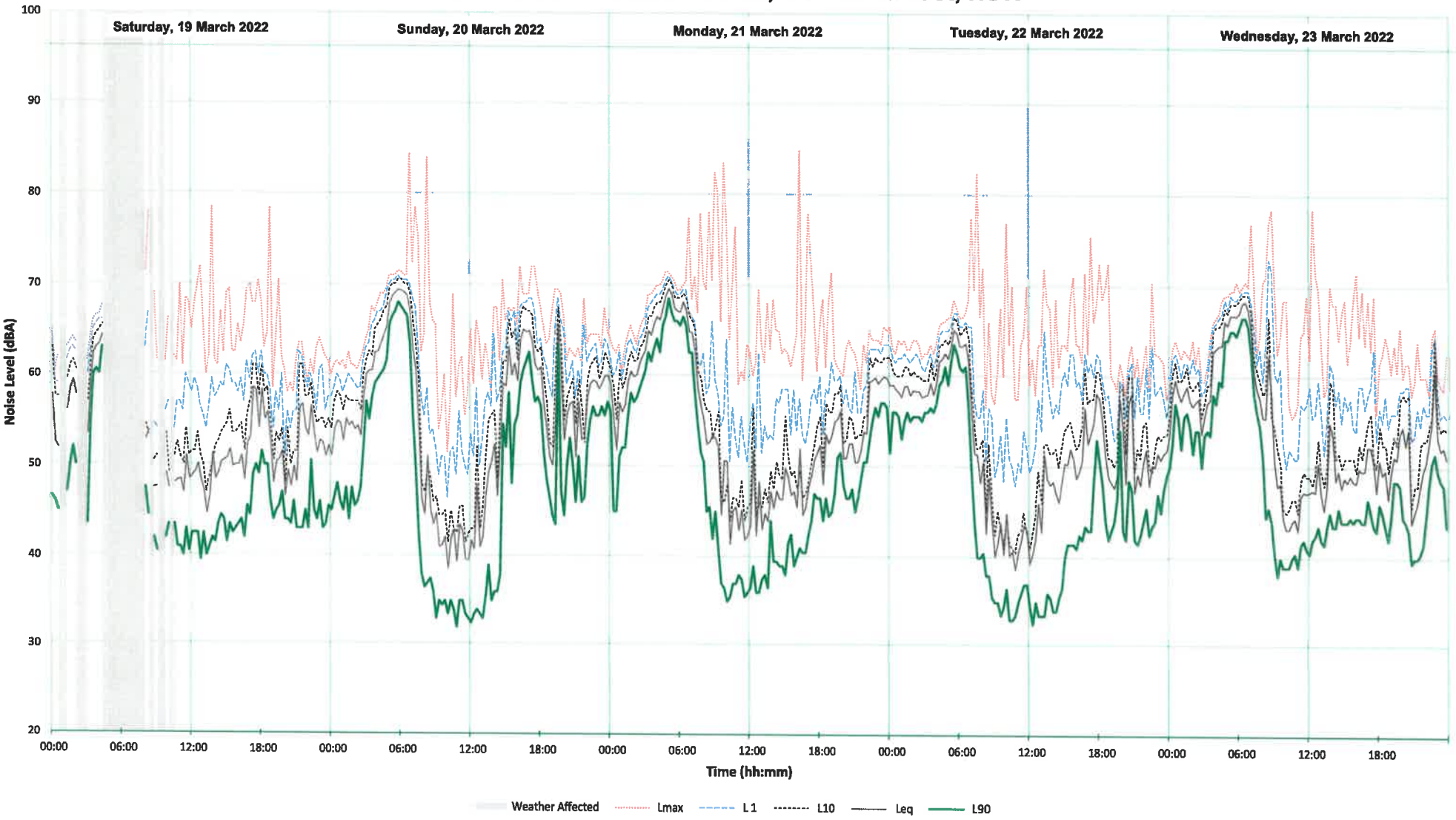
A short overview of the nature of **Mr Gauld's Professional Experience** is provided below:

Churches and Places of Worship:	Thornleigh Uniting Church; Corrimal Uniting Church; Glenmore Park Anglican Church; St Johns Church Kirribilli; Roseville Uniting Church; Lakes Baptist Church; Dapto Anglican Church; Heathcote Gospel Trust; Holy Family; Marayong.
Schools and Child Care Centres:	Schools located at Prestons, Bass Hill, Greenacre, Edensor Park. Childcare Centres located at Kingsgrove, Greenacre, Quakers Hill, Gymea, Kirrawee, Mount Annan and Thornleigh.
Hotels/Clubs	Bangor Tavern; Narellan Hotel; Billabong Hotel; Royal Oak Hotel; Dooleys Lidcombe Catholic Club; Easts Leagues Club; Gymea Hotel; Summer Hill Hotel; St Johns Park Bowling Club; Five Dock RSL Club; Royal Hotel at Richmond; Welcome Inn at Thirlmere; Wentworth Leagues Club.
Hearing Loss Assessments:	Assessment of occupational noise exposure for many and varied occupations including but not limited to, sheet metal workers, printers, labourers, hotel employees and drivers.
Industrial and Mining:	Gulf Conveyor Engineering – Appin Colliery main conveyor; BHP Billiton Illawarra Coal – West Cliff Mine; IE Engineered Products – New Ackland Coal Mine machinery; Hanson Construction Materials – Hanson's Quarry, Seaham.
Legal Assignments:	SHCAG Pty Ltd v the Minister for Planning and Infrastructure & Anor, Berrima Colliery Dewharp Pty Ltd v Sutherland SC, Night Club Noise Impact; Ghassibe v Wingecarribee SC, Dog Breeding Facility; Shelly Bear Pty Ltd v Canterbury CC, Child Care Centre; Martin v Camden Council, Child Care Centre; Robert Creed Architects v Strathfield MC, Residential Development Spiro Houteas v Parramatta CC, Residential Development.
Occupational Noise:	Pilkington Alexandria and Ingleburn; United Group Rail; Franklins; Transfield Services; King Gee Clothing; Tyco Electronics.
Residential:	Building Defect Claims - Sydney Mansions and 'The Rivage'; Collins Street, Kiama; Gymea Bay Rd, Gymea Bay; Chapel Street, Rockdale; Auburn Centre; Main St, Blacktown; Taylor Street, Annandale; Queen Victoria Street, Bexley; Willoughby Rd, Crows Nest; Trelawney Street, Woollahra.
Traffic:	Casula Powerhouse Arts Centre; Davies Road Expansion at Padstow; Lindenwood Development at Kellyville; Residential Units at McEvoy Street, Alexandria; President Avenue, Miranda; Bulwara Road, Ultimo; Soho Apartments, Waterloo.

Located at 26 Beattie Avenue, Denistone East, NSW



Located at 26 Beattie Avenue, Denistone East, NSW



7460-1 Appendix D1

Outdoor Noise Propagation Computation (Propout.xls)
Version

DAY DESIGN PTY LTD
Engineer: SG/BL
Project no: 7460-1
Date:

Client..... Boskovitz Lawyers
Project Title..... 26 Beattie Ave, Denistone East
Operation..... Outdoor Play

Atmosphere:
Temp 20
RH% 80

Receptor Location..... 24 Beattie Ave, Denistone East
Noise Criterion ..... 45 dBA at residence any time
Predicted Lp at Receptor = 38 dBA

	dBA	63	125	250	500
	78	54	60	66	72
	85	61	67	73	79
	87	64	70	75	81

	Description	Comments	Input		Noise Levels - dB							
1.				dBA	63	125	250	500	1000	2000	4000	8000
	0-2	Barrier:	SW_boundary		54	60	66	72	74	71	67	64
	Sound Power Level...		Leq	68	44	50	56	62	64	61	57	54
	Energy Distribution	Q	2		0	0	0	0	0	0	0	0
	Multiple Units	Number	5		7	7	7	7	7	7	7	7
	Distance Loss	Dist (m)	19		34	34	34	34	34	34	34	34
	True Height of Barrier	Actual (m)	2.4	1.7	7	8	10	13	15	18	21	24
	Lp Contribution at Receptor:			25	11	15	19	23	22	16	9	2

Barrier Loss Calc'n — Distances: Source to Barrier 10; Barrier to Recep 9; Eff wall Height 1.7; Screen Wall Loss = 6.7 | 8.1 | 10.0 | 12.6; B = 4 (duct width (metres) normal t)

Reference Heights: Source 81.8; Receptor 82.4; Barrier Base 81.4

25.1	10.7	15.4	19.4	22.9

	Description	Comments	Input		Noise Levels - dB							
2				dBA	63	125	250	500	1000	2000	4000	8000
	2-3	Barrier:	SW_boundary		61	67	73	79	81	78	74	70
	Sound Power Level...		Leq	75	51	57	63	69	71	68	64	60
	Energy Distribution	Q	2		0	0	0	0	0	0	0	0
	Multiple Units	Number	10		10	10	10	10	10	10	10	10
	Distance Loss	Dist (m)	27		37	37	37	37	37	37	37	37
	True Height of Barrier	Actual (m)	2.4	1.6	6	7	9	11	14	17	20	23
	Lp Contribution at Receptor:			33	18	23	27	31	30	24	17	9

Barrier Loss Calc'n — Distances: Source to Barrier 19; Barrier to Recep 8; Eff wall Height 1.6; Screen Wall Loss = 6.3 | 7.4 | 9.1 | 11.4; B = 4 (duct width (metres) normal t)

Reference Heights: Source 81.8; Receptor 82.4; Barrier Base 81.4

33.3	18.0	23.0	27.3	31.0

	Description	Comments	Input		Noise Levels - dB							
3				dBA	63	125	250	500	1000	2000	4000	8000
	3-5	Barrier:	SW_boundary		64	70	75	81	83	80	76	72
	Sound Power Level...		Leq	77	54	60	65	71	73	70	66	62
	Energy Distribution	Q	2		0	0	0	0	0	0	0	0
	Multiple Units	Number	4		6	6	6	6	6	6	6	6
	Distance Loss	Dist (m)	34		39	39	39	39	39	39	39	39
	True Height of Barrier	Actual (m)	2.4	1.5	6	7	8	10	13	16	19	22
	Lp Contribution at Receptor:			31	15	21	24	28	28	22	14	6

Barrier Loss Calc'n — Distances: Source to Barrier 22; Barrier to Recep 12; Eff wall Height 3.5; Screen Wall Loss = 6.0 | 6.8 | 8.1 | 10.1; B = 4 (duct width (metres) normal t)

Reference Heights: Source 82.0; Receptor 82.4; Barrier Base 81.4

30.7	15.4	20.6	24.3	28.3

	Description	Comments	Input		Noise Levels - dB							
4				dBA	63	125	250	500	1000	2000	4000	8000
	3-5	Barrier:	SW_boundary		64	70	75	81	83	80	76	72
	Sound Power Level...		Leq	77	54	60	65	71	73	70	66	62
	Energy Distribution	Q	2		0	0	0	0	0	0	0	0
	Multiple Units	Number	4		6	6	6	6	6	6	6	6
	Distance Loss	Dist (m)	41		40	40	40	40	40	40	40	40
	True Height of Barrier	Actual (m)	2.4	1.2	6	6	7	8	10	13	16	19
	Lp Contribution at Receptor:			31	14	20	24	29	29	23	16	7

Barrier Loss Calc'n — Distances: Source to Barrier 27; Barrier to Recep 14; Eff wall Height 3.2; Screen Wall Loss = 5.5 | 6.0 | 6.8 | 8.2; B = 4 (duct width (metres) normal t)

Reference Heights: Source 83.0; Receptor 82.4; Barrier Base 81.4

31.5	14.3	19.8	24.0	28.6

	Description	Comments	Input		Noise Levels - dB							
5				dBA	63	125	250	500	1000	2000	4000	8000
	3-5	Barrier:	SW_boundary		64	70	75	81	83	80	76	72
	Sound Power Level...		Leq	77	54	60	65	71	73	70	66	62
	Energy Distribution	Q	2		0	0	0	0	0	0	0	0
	Multiple Units	Number	4		6	6	6	6	6	6	6	6
	Distance Loss	Dist (m)	44		41	41	41	41	41	41	41	41
	True Height of Barrier	Actual (m)	2.4	1.3	6	7	8	10	12	15	18	21
	Lp Contribution at Receptor:			29	13	18	22	26	26	20	12	3

Barrier Loss Calc'n — Distances: Source to Barrier 37; Barrier to Recep 7; Eff wall Height 2.3; Screen Wall Loss = 5.9 | 6.7 | 8.0 | 9.9; B = 4 (duct width (metres) normal t)

Reference Heights: Source 83.0; Receptor 82.4; Barrier Base 81.4

28.7	13.3	18.5	22.2	26.3

	Description	Comments	Input		Noise Levels - dB							
6				dBA	63	125	250	500	1000	2000	4000	8000
	3-5	Barrier:	SW_boundary		64	70	75	81	83	80	76	72
	Sound Power Level...		Leq	77	54	60	65	71	73	70	66	62
	Energy Distribution	Q	2		0	0	0	0	0	0	0	0
	Multiple Units	Number	4		6	6	6	6	6	6	6	6
	Distance Loss	Dist (m)	35		39	39	39	39	39	39	39	39
	True Height of Barrier	Actual (m)	2.4	1.5	6	8	9	12	15	18	21	24
	Lp Contribution at Receptor:			29	15	20	23	26	26	19	12	4

Barrier Loss Calc'n — Distances: Source to Barrier 30; Barrier to Recep 5; Eff wall Height 1.5; Screen Wall Loss = 6.5 | 7.6 | 9.4 | 11.8; B = 4 (duct width (metres) normal t)

Reference Heights: Source 82.0; Receptor 82.4; Barrier Base 81.4

28.6	14.7	19.5	22.8	26.4

	Description	Comments	Input		Noise Levels - dB							
7				dBA	63	125	250	500	1000	2000	4000	8000
	3-5	Barrier:	facade		64	70	75	81	83	80	76	72
	Sound Power Level...		Leq	77	54	60	65	71	73	70	66	62
	Energy Distribution	Q	2		0	0	0	0	0	0	0	0
	Multiple Units	Number	4		6	6	6	6	6	6	6	6
	Distance Loss	Dist (m)	28		37	37	37	37	37	37	37	37
	True Height of Barrier	Actual (m)	5.7	4.6	12	14	17	20	23	24	24	24
	Lp Contribution at Receptor:			23	11	15	17	20	19	15	11	5
	Total Sound Power Level			84	61	67	73	79	81	78	74	70
				dBA	63	125	250	500	1000	2000	4000	8000
	Total Lp at Receptor			38	23	28	32	36	35	29	22	15
	A" Weighted Lp				-3	12	23	33	35	31	28	13
	Noise Criterion			45	57	57	49	44	40	37	36	33

Barrier Loss Calc'n — Distances: Source to Barrier 7; Barrier to Recep 21; Eff wall Height 4.6; Screen Wall Loss = 11.7 | 14.4 | 17.4 | 20.4; B = 4 (duct width (metres) normal t)

Reference Heights: Source 81.8; Receptor 82.4; Barrier Base 80.9

22.6	11.4	14.6	16.7	19.7

84.2	61.5	67.5	72.6	78.6
	63	125	250	500
38.3	23.1	28.0	31.9	35.8

Excess Noise Computation

40.0	67.1	56.8	49.2	43.8

7460-1 Appendix D2

Outdoor Noise Propagation Computation (Propout.xls)
Version

DAY DESIGN PTY LTD
Engineer: SG/BL
Project no: 7460-1
Date:

Client ..... Boskovitz Lawyers
Project Title..... 26 Beattie Ave, Denistone East
Operation ..... Outdoor Play

Atmosphere:
Temp 20
RH% 80

Receptor Location..... 24 Beattie Ave, Denistone East
Noise Criterion ..... 45 dBA at residence any time
Predicted Lp at Receptor = 40 dBA

dBA	63	125	250	500
78	54	60	66	72
85	61	67	73	79
87	64	70	75	81

	Description	Comments	Input		Noise Levels - dB							
1.				dBA	63	125	250	500	1000	2000	4000	8000
	0-2	Barrier:	SW_boundary		54	60	66	72	74	71	67	64
	Sound Power Level...		Leq	68	44	50	56	62	64	61	57	54
	Energy Distribution	Q	2		0	0	0	0	0	0	0	0
	Multiple Units	Number	5		7	7	7	7	7	7	7	7
	Distance Loss	Dist (m)	10		28	28	28	28	28	28	28	28
	True Height of Barrier	Actual (m)	2.4	1.4	7	8	11	13	16	19	22	24
	Lp Contribution at Receptor:			30	16	21	24	28	27	21	14	8

Barrier Loss Calc'n — Typical Weather Conditic

Distances		Reference Heights	
Source to Barrier	5	Source	81.8
Barrier to Recep	5	Receptor	83.4
Eff wall Height	1.4	Barrier Base	81.5
Screen Wall Loss =	7.0	8.4	10.5	13.2
B =	4	duct width (metres)	normal t
30.1	16.0	20.6	24.5	27.8

	Description	Comments	Input		Noise Levels - dB							
2				dBA	63	125	250	500	1000	2000	4000	8000
	2-3	Barrier:	SW_boundary		61	67	73	79	81	78	74	70
	Sound Power Level...		Leq	75	51	57	63	69	71	68	64	60
	Energy Distribution	Q	2		0	0	0	0	0	0	0	0
	Multiple Units	Number	10		10	10	10	10	10	10	10	10
	Distance Loss	Dist (m)	18		33	33	33	33	33	33	33	33
	True Height of Barrier	Actual (m)	2.4	0.3	16	19	22	24	24	24	24	24
	Lp Contribution at Receptor:			27	11	14	17	22	24	21	17	12

Barrier Loss Calc'n — Typical Weather Conditic

Distances		Reference Heights	
Source to Barrier	21	Source	81.8
Barrier to Recep	3	Receptor	83.4
Eff wall Height	0.8	Barrier Base	81.5
Screen Wall Loss =	16.5	19.5	22.5	24.0
B =	4	duct width (metres)	normal t
27.4	11.4	14.4	17.4	20.9

	Description	Comments	Input		Noise Levels - dB							
3				dBA	63	125	250	500	1000	2000	4000	8000
	3-5	Barrier:	SW_boundary		64	70	75	81	83	80	76	72
	Sound Power Level...		Leq	77	54	60	65	71	73	70	66	62
	Energy Distribution	Q	2		0	0	0	0	0	0	0	0
	Multiple Units	Number	4		6	6	6	6	6	6	6	6
	Distance Loss	Dist (m)	39		40	40	40	40	40	40	40	40
	True Height of Barrier	Actual (m)	2.4	1.3	6	6	7	9	11	14	16	19
	Lp Contribution at Receptor:			31	15	20	24	29	28	23	15	6

Barrier Loss Calc'n — Typical Weather Conditic

Distances		Reference Heights	
Source to Barrier	26	Source	82.0
Barrier to Recep	13	Receptor	83.4
Eff wall Height	1.3	Barrier Base	81.8
Screen Wall Loss =	5.6	6.2	7.1	8.7
B =	4	duct width (metres)	normal t
31.3	14.6	20.0	24.1	28.5

	Description	Comments	Input		Noise Levels - dB							
4				dBA	63	125	250	500	1000	2000	4000	8000
	3-5	Barrier:	SW_boundary		64	70	75	81	83	80	76	72
	Sound Power Level...		Leq	77	54	60	65	71	73	70	66	62
	Energy Distribution	Q	2		0	0	0	0	0	0	0	0
	Multiple Units	Number	4		6	6	6	6	6	6	6	6
	Distance Loss	Dist (m)	45		41	41	41	41	41	41	41	41
	True Height of Barrier	Actual (m)	2.4	1.3	6	6	7	8	10	13	16	19
	Lp Contribution at Receptor:			30	13	19	23	28	27	22	14	5

Barrier Loss Calc'n — Typical Weather Conditic

Distances		Reference Heights	
Source to Barrier	30	Source	83.0
Barrier to Recep	15	Receptor	83.4
Eff wall Height	1.3	Barrier Base	82.2
Screen Wall Loss =	5.5	6.0	6.9	8.4
B =	4	duct width (metres)	normal t
30.4	13.4	18.9	23.0	27.6

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	Description	Comments	Input		Noise Levels - dB							
5				dBA	63	125	250	500	1000	2000	4000	8000
	3-5	Barrier:	SW_boundary		64	70	75	81	83	80	76	72
	Sound Power Level...		Leq	77	54	60	65	71	73	70	66	62
	Energy Distribution	Q	2		0	0	0	0	0	0	0	0
	Multiple Units	Number	4		6	6	6	6	6	6	6	6
	Distance Loss	Dist (m)	42		40	40	40	40	40	40	40	40
	True Height of Barrier	Actual (m)	2.4	0.8	5	5	6	6	7	9	12	14
	Lp Contribution at Receptor:			34	14	20	25	30	31	26	19	11

Barrier Loss Calc'n — Typical Weather Conditic

Distances		Reference Heights	
Source to Barrier	19	Source	83.0
Barrier to Recep	23	Receptor	83.4
Eff wall Height	0.8	Barrier Base	81.5
Screen Wall Loss =	5.2	5.4	5.7	6.4
B =	4	duct width (metres)	normal t
34.0	14.4	20.2	24.8	30.2

	Description	Comments	Input		Noise Levels - dB							
6				dBA	63	125	250	500	1000	2000	4000	8000
	3-5	Barrier:	SW_boundary		64	70	75	81	83	80	76	72
	Sound Power Level...		Leq	77	54	60	65	71	73	70	66	62
	Energy Distribution	Q	2		0	0	0	0	0	0	0	0
	Multiple Units	Number	4		6	6	6	6	6	6	6	6
	Distance Loss	Dist (m)	33		38	38	38	38	38	38	38	38
	True Height of Barrier	Actual (m)	2.4	1.4	6	6	7	9	11	14	17	20
	Lp Contribution at Receptor:			32	16	21	25	29	29	23	16	7

Barrier Loss Calc'n — Typical Weather Conditic

Distances		Reference Heights	
Source to Barrier	14	Source	82.0
Barrier to Recep	19	Receptor	83.4
Eff wall Height	1.4	Barrier Base	81.5
Screen Wall Loss =	5.7	6.4	7.5	9.2
B =	4	duct width (metres)	normal t
32.1	15.9	21.3	25.2	29.3

	Description	Comments	Input		Noise Levels - dB							
7				dBA	63	125	250	500	1000	2000	4000	8000
	3-5	Barrier:	SW_boundary		64	70	75	81	83	80	76	72
	Sound Power Level...		Leq	77	54	60	65	71	73	70	66	62
	Energy Distribution	Q	2		0	0	0	0	0	0	0	0
	Multiple Units	Number	4		6	6	6	6	6	6	6	6
	Distance Loss	Dist (m)	22		35	35	35	35	35	35	35	35
	True Height of Barrier	Actual (m)	2.4	1.6	7	8	10	12	15	18	21	24
	Lp Contribution at Receptor:			32	19	23	26	30	29	23	16	8

Barrier Loss Calc'n — Typical Weather Conditic

Distances		Reference Heights	
Source to Barrier	7	Source	81.8
Barrier to Recep	15	Receptor	83.4
Eff wall Height	1.6	Barrier Base	81.5
Screen Wall Loss =	6.6	7.8	9.7	12.2
B =	4	duct width (metres)	normal t
32.2	18.6	23.3	26.4	30.0

Total Sound Power Level			84	61	67	73	79	81	78	74	70
			dBA	63	125	250	500	1000	2000	4000	8000
Total Lp at Receptor			40	24	29	33	37	37	31	25	18
A* Weighted Lp				-2	13	24	34	37	33	26	16
Noise Criterion			45	67	57	49	44	40	37	36	33

84.2	61.5	67.5	72.6	78.6
	63	125	250	500
39.9	23.9	28.9	32.7	37.0
Excess Noise Computation				
40.0	67.1	56.8	49.2	43.8

7460-1 Appendix D3

Outdoor Noise Propagation Computation (Propout.xls)
Version

DAY DESIGN PTY LTD
Engineer: SG/BL
Project no: 7460-1
Date:

Client ..... Boskovitz Lawyers
Project Title..... 26 Beattie Ave, Denistone East
Operation ..... Outdoor Play

Atmosphere:
Temp 20
RH% 80

Receptor Location..... 24 Beattie Ave, Denistone East
Noise Criterion ..... 45 dBA at residence any time
Predicted Lp at Receptor = 45 dBA

	dBA	63	125	250	500
	78	54	60	66	72
	85	61	67	73	79
	87	64	70	75	81

	Description	Comments	Input		Noise Levels - dB							
1.				dBA	63	125	250	500	1000	2000	4000	8000
	0-2	Barrier:	SW_boundary		54	60	66	72	74	71	67	64
	Sound Power Level...		Leq	68	44	50	56	62	64	61	57	54
	Energy Distribution	Q	2		0	0	0	0	0	0	0	0
	Multiple Units	Number	5		7	7	7	7	7	7	7	7
	Distance Loss	Dist (m)	8		26	26	26	26	26	26	26	26
	True Height of Barrier	Actual (m)	2.4	1.4	7	9	11	14	17	20	23	24
	Lp Contribution at Receptor:			31	17	22	25	29	28	22	15	10
	Description	Comments	Input		Noise Levels - dB							
2				dBA	63	125	250	500	1000	2000	4000	8000
	2-3	Barrier:	SW_boundary		61	67	73	79	81	78	74	70
	Sound Power Level...		Leq	75	51	57	63	69	71	68	64	60
	Energy Distribution	Q	2		0	0	0	0	0	0	0	0
	Multiple Units	Number	10		10	10	10	10	10	10	10	10
	Distance Loss	Dist (m)	10		28	28	28	28	28	28	28	28
	True Height of Barrier	Actual (m)	2.4	1.2	7	8	10	13	16	19	22	24
	Lp Contribution at Receptor:			40	26	31	35	38	37	31	24	17
	Description	Comments	Input		Noise Levels - dB							
3				dBA	63	125	250	500	1000	2000	4000	8000
	3-5	Barrier:	SW_boundary		64	70	75	81	83	80	76	72
	Sound Power Level...		Leq	77	54	60	65	71	73	70	66	62
	Energy Distribution	Q	2		0	0	0	0	0	0	0	0
	Multiple Units	Number	4		6	6	6	6	6	6	6	6
	Distance Loss	Dist (m)	13		30	30	30	30	30	30	30	30
	True Height of Barrier	Actual (m)	2.4	1.5	7	8	10	13	16	19	22	24
	Lp Contribution at Receptor:			36	23	27	30	34	33	27	20	13
	Description	Comments	Input		Noise Levels - dB							
4				dBA	63	125	250	500	1000	2000	4000	8000
	3-5	Barrier:	SW_boundary		64	70	75	81	83	80	76	72
	Sound Power Level...		Leq	77	54	60	65	71	73	70	66	62
	Energy Distribution	Q	2		0	0	0	0	0	0	0	0
	Multiple Units	Number	4		6	6	6	6	6	6	6	6
	Distance Loss	Dist (m)	19		34	34	34	34	34	34	34	34
	True Height of Barrier	Actual (m)	2.4	1.1	6	7	8	10	12	15	18	21
	Lp Contribution at Receptor:			36	21	26	30	34	33	27	20	12
	Description	Comments	Input		Noise Levels - dB							
5				dBA	63	125	250	500	1000	2000	4000	8000
	3-5	Barrier:	SW_boundary		64	70	75	81	83	80	76	72
	Sound Power Level...		Leq	77	54	60	65	71	73	70	66	62
	Energy Distribution	Q	2		0	0	0	0	0	0	0	0
	Multiple Units	Number	4		6	6	6	6	6	6	6	6
	Distance Loss	Dist (m)	24		36	36	36	36	36	36	36	36
	True Height of Barrier	Actual (m)	2.4	0.9	6	6	8	9	12	15	18	21
	Lp Contribution at Receptor:			35	19	24	28	32	32	26	18	10
	Description	Comments	Input		Noise Levels - dB							
6				dBA	63	125	250	500	1000	2000	4000	8000
	3-5	Barrier:	SW_boundary		64	70	75	81	83	80	76	72
	Sound Power Level...		Leq	77	54	60	65	71	73	70	66	62
	Energy Distribution	Q	2		0	0	0	0	0	0	0	0
	Multiple Units	Number	4		6	6	6	6	6	6	6	6
	Distance Loss	Dist (m)	19		34	34	34	34	34	34	34	34
	True Height of Barrier	Actual (m)	2.4	0.9	6	7	8	10	13	16	19	22
	Lp Contribution at Receptor:			36	20	26	29	33	33	27	19	12
	Description	Comments	Input		Noise Levels - dB							
7				dBA	63	125	250	500	1000	2000	4000	8000
	3-5	Barrier:	SW_boundary		64	70	75	81	83	80	76	72
	Sound Power Level...		Leq	77	54	60	65	71	73	70	66	62
	Energy Distribution	Q	2		0	0	0	0	0	0	0	0
	Multiple Units	Number	4		6	6	6	6	6	6	6	6
	Distance Loss	Dist (m)	20		34	34	34	34	34	34	34	34
	True Height of Barrier	Actual (m)	2.4	0.8	6	7	8	10	12	15	18	21
	Lp Contribution at Receptor:			36	20	25	29	33	33	27	20	12
	Total Sound Power Level			84	61	67	73	79	81	78	74	70
				dBA	63	125	250	500	1000	2000	4000	8000
	Total Lp at Receptor			45	30	35	39	42	42	36	29	22
	A" Weighted Lp				4	19	30	39	42	37	30	21
	Noise Criterion			45	67	57	49	44	40	37	36	33

Barrier Loss Calc'n — For Neutral Weather Conditic

Distances		Reference Heights		
Source to Barrier	4	Source		81.8
Barrier to Recep	4	Receptor		83.8
Eff wall Height	1.4	Barrier Base		81.8
Screen Wall Loss =	7.4	9.1	11.4	14.2
B =	4	duct width (metres)	normal t	
31.0	17.5	21.8	25.5	28.7

Barrier Loss Calc'n — For Neutral Weather Conditic

Distances		Reference Heights		
Source to Barrier	7	Source		81.8
Barrier to Recep	3	Receptor		83.8
Eff wall Height	1.2	Barrier Base		82.0
Screen Wall Loss =	6.9	8.4	10.4	13.1
B =	4	duct width (metres)	normal t	
40.2	28.1	30.6	34.6	37.9

Barrier Loss Calc'n — For Neutral Weather Conditic

Distances		Reference Heights		
Source to Barrier	8	Source		82.0
Barrier to Recep	5	Receptor		83.8
Eff wall Height	1.5	Barrier Base		82.2
Screen Wall Loss =	6.9	8.3	10.4	13.0
B =	4	duct width (metres)	normal t	
36.0	22.8	27.4	30.3	33.7

Barrier Loss Calc'n — For Neutral Weather Conditic

Distances		Reference Heights		
Source to Barrier	12	Source		83.0
Barrier to Recep	7	Receptor		83.8
Eff wall Height	1.1	Barrier Base		82.2
Screen Wall Loss =	5.9	6.6	7.9	9.8
B =	4	duct width (metres)	normal t	
36.2	20.6	25.8	29.6	33.7

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Barrier Loss Calc'n — For Neutral Weather Conditic

Distances		Reference Heights		
Source to Barrier	20	Source		83.0
Barrier to Recep	4	Receptor		83.8
Eff wall Height	0.9	Barrier Base		82.2
Screen Wall Loss =	5.8	6.4	7.6	9.4
B =	4	duct width (metres)	normal t	
34.6	18.6	24.0	27.8	32.0

Barrier Loss Calc'n — For Neutral Weather Conditic

Distances		Reference Heights		
Source to Barrier	16	Source		82.0
Barrier to Recep	3	Receptor		83.8
Eff wall Height	0.9	Barrier Base		82.0
Screen Wall Loss =	6.0	6.8	8.2	10.3
B =	4	duct width (metres)	normal t	
35.6	20.4	25.6	29.2	33.2

Barrier Loss Calc'n — For Neutral Weather Conditic

Distances		Reference Heights		
Source to Barrier	17	Source		81.8
Barrier to Recep	3	Receptor		83.8
Eff wall Height	0.8	Barrier Base		81.9
Screen Wall Loss =	5.8	6.5	7.8	9.6
B =	4	duct width (metres)	normal t	
35.9	20.2	25.5	29.2	33.4

84.2	61.5	67.5	72.6	78.6
	63	125	250	500
44.8	30.2	35.1	38.7	42.4

Excess Noise Computation

40.0	67.1	56.8	49.2	43.8

7460-1 Appendix D4

Outdoor Noise Propagation Computation (Propout.xls)
Version

DAY DESIGN PTY LTD
Engineer: SG/BL
Project no: 7460-1
Date:

Client ..... Boskovitz Lawyers
Project Title. ..... 26 Beattie Ave, Denistone East
Operation ..... Outdoor Play

Atmosphere:
Temp 20
RH% 80

Receptor Location..... 24 Beattie Ave, Denistone East
Noise Criterion ..... 45 dBA at residence any time
Predicted Lp at Receptor = 44 dBA

	dBA	63	125	250	500
	78	54	60	66	72
	85	61	67	73	79
	87	64	70	75	81

	Description	Comments	Input		Noise Levels - dB							
1.				dBA	63	125	250	500	1000	2000	4000	8000
	0-2	Barrier:	SW_boundary		54	60	66	72	74	71	67	64
	Sound Power Level...		Leq	68	44	50	56	62	64	61	57	54
	Energy Distribution	Q	2		0	0	0	0	0	0	0	0
	Multiple Units	Number	5		7	7	7	7	7	7	7	7
	Distance Loss	Dist (m)	22		35	35	35	35	35	35	35	35
	True Height of Barrier	Actual (m)	2.4	1.6	6	8	9	12	14	17	20	23
	Lp Contribution at Receptor:			25	10	15	19	22	22	16	8	1

Barrier Loss Calc'n — Typical Weather Conditic

Distances		Reference Heights	
Source to Barrier	12	Source	81.8
Barrier to Recep	10	Receptor	83.8
Eff wall Height	1.6	Barrier Base	82.1
Screen Wall Loss =	6.4	7.6	9.3	11.7
B =	4	duct width (metres)	normal t
24.7	9.7	14.6	18.8	22.4

	Description	Comments	Input		Noise Levels - dB							
2				dBA	63	125	250	500	1000	2000	4000	8000
	2-3	Barrier:	SW_boundary		61	67	73	79	81	78	74	70
	Sound Power Level...		Leq	75	51	57	63	69	71	68	64	60
	Energy Distribution	Q	2		0	0	0	0	0	0	0	0
	Multiple Units	Number	10		10	10	10	10	10	10	10	10
	Distance Loss	Dist (m)	16		32	32	32	32	32	32	32	32
	True Height of Barrier	Actual (m)	2.4	1.4	7	8	10	13	16	19	22	24
	Lp Contribution at Receptor:			36	22	27	31	34	33	27	20	13

Barrier Loss Calc'n — Typical Weather Conditic

Distances		Reference Heights	
Source to Barrier	12	Source	81.8
Barrier to Recep	4	Receptor	83.8
Eff wall Height	1.4	Barrier Base	82.3
Screen Wall Loss =	6.8	8.2	10.2	12.8
B =	4	duct width (metres)	normal t
36.4	22.1	26.7	30.7	34.1

	Description	Comments	Input		Noise Levels - dB							
3				dBA	63	125	250	500	1000	2000	4000	8000
	3-5	Barrier:	SW_boundary		64	70	75	81	83	80	76	72
	Sound Power Level...		Leq	77	54	60	65	71	73	70	66	62
	Energy Distribution	Q	2		0	0	0	0	0	0	0	0
	Multiple Units	Number	4		6	6	6	6	6	6	6	6
	Distance Loss	Dist (m)	10		28	28	28	28	28	28	28	28
	True Height of Barrier	Actual (m)	2.4	1.5	8	9	12	15	18	21	24	24
	Lp Contribution at Receptor:			37	24	29	31	34	33	27	20	15

Barrier Loss Calc'n — Typical Weather Conditic

Distances		Reference Heights	
Source to Barrier	7	Source	82.0
Barrier to Recep	3	Receptor	83.8
Eff wall Height	1.5	Barrier Base	82.3
Screen Wall Loss =	7.6	9.4	11.8	14.6
B =	4	duct width (metres)	normal t
36.6	24.4	28.6	31.2	34.4

	Description	Comments	Input		Noise Levels - dB							
4				dBA	63	125	250	500	1000	2000	4000	8000
	3-5	Barrier:	SW_boundary		64	70	75	81	83	80	76	72
	Sound Power Level...		Leq	77	54	60	65	71	73	70	66	62
	Energy Distribution	Q	2		0	0	0	0	0	0	0	0
	Multiple Units	Number	4		6	6	6	6	6	6	6	6
	Distance Loss	Dist (m)	8		26	26	26	26	26	26	26	26
	True Height of Barrier	Actual (m)	2.4	1.3	7	9	11	14	17	20	23	24
	Lp Contribution at Receptor:			39	27	31	34	37	36	30	23	17

Barrier Loss Calc'n — Typical Weather Conditic

Distances		Reference Heights	
Source to Barrier	5	Source	83.0
Barrier to Recep	3	Receptor	83.8
Eff wall Height	1.3	Barrier Base	82.4
Screen Wall Loss =	7.3	8.9	11.2	13.9
B =	4	duct width (metres)	normal t
39.3	26.7	31.0	33.8	37.0

										90	87
	Description	Comments	Input		Noise Levels - dB							
5				dBA	63	125	250	500	1000	2000	4000	8000
	3-5	Barrier:	SW_boundary		64	70	75	81	83	80	76	72
	Sound Power Level...		Leq	77	54	60	65	71	73	70	66	62
	Energy Distribution	Q	2		0	0	0	0	0	0	0	0
	Multiple Units	Number	4		6	6	6	6	6	6	6	6
	Distance Loss	Dist (m)	16		32	32	32	32	32	32	32	32
	True Height of Barrier	Actual (m)	2.4	1.1	7	8	10	13	16	19	22	24
	Lp Contribution at Receptor:			34	21	26	29	32	31	25	18	11

Barrier Loss Calc'n — Typical Weather Conditic

Distances		Reference Heights	
Source to Barrier	14	Source	83.0
Barrier to Recep	2	Receptor	83.8
Eff wall Height	1.1	Barrier Base	82.4
Screen Wall Loss =	6.8	8.2	10.3	12.9
B =	4	duct width (metres)	normal t
34.3	21.1	25.7	28.7	32.1

	Description	Comments	Input		Noise Levels - dB							
6				dBA	63	125	250	500	1000	2000	4000	8000
	3-5	Barrier:	SW_boundary		64	70	75	81	83	80	76	72
	Sound Power Level...		Leq	77	54	60	65	71	73	70	66	62
	Energy Distribution	Q	2		0	0	0	0	0	0	0	0
	Multiple Units	Number	4		6	6	6	6	6	6	6	6
	Distance Loss	Dist (m)	19		34	34	34	34	34	34	34	34
	True Height of Barrier	Actual (m)	2.4	1.2	7	8	10	12	15	18	21	24
	Lp Contribution at Receptor:			33	20	24	28	31	30	24	17	9

Barrier Loss Calc'n — Typical Weather Conditic

Distances		Reference Heights	
Source to Barrier	16	Source	82.0
Barrier to Recep	3	Receptor	83.8
Eff wall Height	1.2	Barrier Base	82.3
Screen Wall Loss =	6.7	8.0	9.9	12.4
B =	4	duct width (metres)	normal t
33.3	19.8	24.5	27.5	31.0

	Description	Comments	Input		Noise Levels - dB							
7				dBA	63	125	250	500	1000	2000	4000	8000
	3-5	Barrier:	SW_boundary		64	70	75	81	83	80	76	72
	Sound Power Level...		Leq	77	54	60	65	71	73	70	66	62
	Energy Distribution	Q	2		0	0	0	0	0	0	0	0
	Multiple Units	Number	4		6	6	6	6	6	6	6	6
	Distance Loss	Dist (m)	27		37	37	37	37	37	37	37	37
	True Height of Barrier	Actual (m)	2.4	1.1	6	7	9	12	14	17	20	23
	Lp Contribution at Receptor:			31	17	22	25	29	28	22	15	6

Barrier Loss Calc'n — Typical Weather Conditic

Distances		Reference Heights	
Source to Barrier	24	Source	81.8
Barrier to Recep	3	Receptor	83.8
Eff wall Height	1.1	Barrier Base	82.3
Screen Wall Loss =	6.4	7.5	9.2	11.5
B =	4	duct width (metres)	normal t
31.2	17.0	21.9	25.2	28.8

Total Sound Power Level			84	61	67	73	79	81	78	74	70
			dBA	63	125	250	500	1000	2000	4000	8000
Total Lp at Receptor			44	31	35	38	42	41	35	27	21
A" Weighted Lp				5	19	30	38	41	36	28	20
Noise Criterion			45	57	57	49	44	40	37	36	33

84.2	61.5	67.5	72.6	78.6
	63	125	250	500
43.8	30.7	35.2	38.2	41.5
Excess Noise Computation				
40.0	67.1	56.8	49.2	43.8

7460-1 Appendix D5

Outdoor Noise Propagation Computation (Propout.xls)
Version

DAY DESIGN PTY LTD
Engineer: SG/BL
Project no: 7460-1
Date:

Client ..... Boskovitz Lawyers
Project Title..... 26 Beattie Ave, Denistone East
Operation ..... Outdoor Play

Atmosphere:
Temp 20
RH% 80

Receptor Location..... 28 Beattie Ave, Denistone East
Noise Criterion ..... 45 dBA at residence any time
Predicted Lp at Receptor = 37 dBA

	dBA	63	125	250	500
	78	54	60	66	72
	85	61	67	73	79
	87	64	70	75	81

	Description	Comments	Input		Noise Levels - dB							
1.				dBA	63	125	250	500	1000	2000	4000	8000
	0-2	Barrier:	facade		54	60	66	72	74	71	67	64
	Sound Power Level...		Leq	68	44	50	56	62	64	61	57	54
	Energy Distribution	Q	2		0	0	0	0	0	0	0	0
	Multiple Units	Number	5		7	7	7	7	7	7	7	7
	Distance Loss	Dist (m)	29		37	37	37	37	37	37	37	37
	True Height of Barrier	Actual (m)	5.7	4.8	13	15	18	21	24	24	24	24
	Lp Contribution at Receptor:			14	1	4	7	10	10	7	2	0
	Description	Comments	Input		Noise Levels - dB							
2				dBA	63	125	250	500	1000	2000	4000	8000
	2-3	Barrier:	R2_roof_parapet		61	67	73	79	81	78	74	70
	Sound Power Level...		Leq	75	51	57	63	69	71	68	64	60
	Energy Distribution	Q	2		0	0	0	0	0	0	0	0
	Multiple Units	Number	10		10	10	10	10	10	10	10	10
	Distance Loss	Dist (m)	31		38	38	38	38	38	38	38	38
	True Height of Barrier	Actual (m)	0.0	2.2	7	9	11	13	16	19	22	24
	Lp Contribution at Receptor:			30	16	21	24	28	27	21	13	6
	Description	Comments	Input		Noise Levels - dB							
3				dBA	63	125	250	500	1000	2000	4000	8000
	3-5	Barrier:	R2_roof_parapet		64	70	75	81	83	80	76	72
	Sound Power Level...		Leq	77	54	60	65	71	73	70	66	62
	Energy Distribution	Q	2		0	0	0	0	0	0	0	0
	Multiple Units	Number	4		6	6	6	6	6	6	6	6
	Distance Loss	Dist (m)	38		40	40	40	40	40	40	40	40
	True Height of Barrier	Actual (m)	0.0	2.1	7	8	10	12	15	18	21	24
	Lp Contribution at Receptor:			27	14	19	22	25	24	18	11	2
	Description	Comments	Input		Noise Levels - dB							
4				dBA	63	125	250	500	1000	2000	4000	8000
	3-5	Barrier:	R2_roof_parapet		64	70	75	81	83	80	76	72
	Sound Power Level...		Leq	77	54	60	65	71	73	70	66	62
	Energy Distribution	Q	2		0	0	0	0	0	0	0	0
	Multiple Units	Number	4		6	6	6	6	6	6	6	6
	Distance Loss	Dist (m)	45		41	41	41	41	41	41	41	41
	True Height of Barrier	Actual (m)	0.0	1.8	6	7	8	11	13	16	19	22
	Lp Contribution at Receptor:			28	13	18	21	25	25	19	11	2
	Description	Comments	Input		Noise Levels - dB							
5				dBA	63	125	250	500	1000	2000	4000	8000
	3-5	Barrier:	R2_roof_parapet		64	70	75	81	83	80	76	72
	Sound Power Level...		Leq	77	54	60	65	71	73	70	66	62
	Energy Distribution	Q	2		0	0	0	0	0	0	0	0
	Multiple Units	Number	4		6	6	6	6	6	6	6	6
	Distance Loss	Dist (m)	42		40	40	40	40	40	40	40	40
	True Height of Barrier	Actual (m)	0.0	1.6	6	6	8	9	12	14	17	20
	Lp Contribution at Receptor:			30	14	19	23	27	27	21	14	5
	Description	Comments	Input		Noise Levels - dB							
6				dBA	63	125	250	500	1000	2000	4000	8000
	3-5	Barrier:	R2_roof_parapet		64	70	75	81	83	80	76	72
	Sound Power Level...		Leq	77	54	60	65	71	73	70	66	62
	Energy Distribution	Q	2		0	0	0	0	0	0	0	0
	Multiple Units	Number	4		6	6	6	6	6	6	6	6
	Distance Loss	Dist (m)	32		38	38	38	38	38	38	38	38
	True Height of Barrier	Actual (m)	0.0	2.1	7	8	10	12	15	18	21	24
	Lp Contribution at Receptor:			29	15	20	23	27	26	20	12	4
	Description	Comments	Input		Noise Levels - dB							
7				dBA	63	125	250	500	1000	2000	4000	8000
	3-5	Barrier:	R2_roof_parapet		64	70	75	81	83	80	76	72
	Sound Power Level...		Leq	77	54	60	65	71	73	70	66	62
	Energy Distribution	Q	2		0	0	0	0	0	0	0	0
	Multiple Units	Number	4		6	6	6	6	6	6	6	6
	Distance Loss	Dist (m)	21		34	34	34	34	34	34	34	34
	True Height of Barrier	Actual (m)	0.0	2.2	8	9	12	14	17	20	23	24
	Lp Contribution at Receptor:			30	18	22	25	28	27	21	14	8
	Total Sound Power Level			84	61	67	73	79	81	78	74	70
				dBA	63	125	250	500	1000	2000	4000	8000
	Total Lp at Receptor			37	23	28	31	35	34	28	21	14
	A" Weighted Lp				-3	12	23	31	34	29	22	13
	Noise Criterion			45	67	57	49	44	40	37	36	33

Barrier Loss Calc'n — Normal Weather Conditi

Distances		Reference Heights	
Source to Barrier	5	Source	81.8
Barrier to Recep	24	Receptor	81.8
Eff wall Height	4.8	Barrier Base	80.9
Screen Wall Loss =	12.6	15.4	18.4	21.4
B =	4	duct width (metres)	normal t
13.8	1.2	4.8	7.8	10.8

Barrier Loss Calc'n — Normal Weather Conditi

Distances		Reference Heights	
Source to Barrier	22	Source	81.8
Barrier to Recep	9	Receptor	81.8
Eff wall Height	2.2	Barrier Base	84.0
Screen Wall Loss =	7.1	8.5	10.7	13.4
B =	4	duct width (metres)	normal t
30.0	16.1	20.6	24.5	27.8

Barrier Loss Calc'n — Normal Weather Conditi

Distances		Reference Heights	
Source to Barrier	27	Source	82.0
Barrier to Recep	11	Receptor	81.8
Eff wall Height	2.1	Barrier Base	84.0
Screen Wall Loss =	6.7	7.9	9.8	12.8
B =	4	duct width (metres)	normal t
27.3	13.8	18.5	21.6	25.1

Barrier Loss Calc'n — Normal Weather Conditi

Distances		Reference Heights	
Source to Barrier	32	Source	83.0
Barrier to Recep	13	Receptor	81.8
Eff wall Height	1.8	Barrier Base	84.0
Screen Wall Loss =	6.1	7.0	8.5	10.6
B =	4	duct width (metres)	normal t
27.7	12.9	18.0	21.5	25.3

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Barrier Loss Calc'n — Normal Weather Conditi

Distances		Reference Heights	
Source to Barrier	21	Source	83.0
Barrier to Recep	21	Receptor	81.8
Eff wall Height	1.6	Barrier Base	84.0
Screen Wall Loss =	5.7	6.4	7.5	9.3
B =	4	duct width (metres)	normal t
29.9	13.8	19.2	23.0	27.3

Barrier Loss Calc'n — Normal Weather Conditi

Distances		Reference Heights	
Source to Barrier	16	Source	82.0
Barrier to Recep	16	Receptor	81.8
Eff wall Height	2.1	Barrier Base	84.0
Screen Wall Loss =	6.6	7.8	9.7	12.1
B =	4	duct width (metres)	normal t
29.0	15.3	20.1	23.2	26.8

Barrier Loss Calc'n — Normal Weather Conditi

Distances		Reference Heights	
Source to Barrier	8	Source	81.8
Barrier to Recep	13	Receptor	81.8
Eff wall Height	2.2	Barrier Base	84.0
Screen Wall Loss =	7.6	9.3	11.7	14.4
B =	4	duct width (metres)	normal t
30.3	18.0	22.3	24.9	28.3

84.2	61.5	67.5	72.6	78.6
	63	125	250	500
37.0	23.2	27.8	31.1	34.7
Excess Noise Computation				
40.0	67.1	56.8	49.2	43.8

7460-1 Appendix D6

Outdoor Noise Propagation Computation (Propout.xls)
Version

DAY DESIGN PTY LTD
Engineer: SG/BL
Project no: 7460-1
Date:

Client..... Boskovitz Lawyers
Project Title..... 26 Beattie Ave, Denistone East
Operation..... Outdoor Play

Atmosphere:
Temp 20
RH% 80

Receptor Location..... 28 Beattie Ave, Denistone East
Noise Criterion ..... 45 dBA at residence any time
Predicted Lp at Receptor = 44 dBA

	dBA	63	125	250	500
	78	54	60	66	72
	85	61	67	73	79
	87	64	70	75	81

	Description	Comments	Input		Noise Levels - dB							
1				dBA	63	125	250	500	1000	2000	4000	8000
	0-2	Barrier:	NE_boundary		54	60	66	72	74	71	67	64
	Sound Power Level...		Leq	68	44	50	56	62	64	61	57	54
	Energy Distribution	Q	2		0	0	0	0	0	0	0	0
	Multiple Units	Number	5		7	7	7	7	7	7	7	7
	Distance Loss	Dist (m)	18		33	33	33	33	33	33	33	33
	True Height of Barrier	Actual (m)	2.0	0.5	6	7	8	10	13	16	19	22
	Lp Contribution at Receptor:			28	12	17	22	26	25	19	12	5

Barrier Loss Calc'n — Distances: Source to Barrier 17; Barrier to Recep 1; Eff wall Height 0.5; Screen Wall Loss = 5.9 | 6.8 | 8.1 | 10.1; B = 4 (duct width (metres) normal t); 28.3 | 11.9 | 17.1 | 21.8 | 25.8
Reference Heights: Source 81.8; Receptor 82.7; Barrier Base 81.2

	Description	Comments	Input		Noise Levels - dB							
2				dBA	63	125	250	500	1000	2000	4000	8000
	2-3	Barrier:	NE_boundary		61	67	73	79	81	78	74	70
	Sound Power Level...		Leq	75	51	57	63	69	71	68	64	60
	Energy Distribution	Q	2		0	0	0	0	0	0	0	0
	Multiple Units	Number	10		10	10	10	10	10	10	10	10
	Distance Loss	Dist (m)	17		33	33	33	33	33	33	33	33
	True Height of Barrier	Actual (m)	2.0	0.6	6	7	8	10	13	16	19	22
	Lp Contribution at Receptor:			39	22	28	32	36	36	30	23	15

Barrier Loss Calc'n — Distances: Source to Barrier 16; Barrier to Recep 1; Eff wall Height 0.6; Screen Wall Loss = 6.0 | 6.9 | 8.1 | 10.1; B = 4 (duct width (metres) normal t); 38.7 | 22.4 | 27.6 | 32.3 | 36.3
Reference Heights: Source 81.8; Receptor 82.7; Barrier Base 81.2

	Description	Comments	Input		Noise Levels - dB							
3				dBA	63	125	250	500	1000	2000	4000	8000
	3-6	Barrier:	NE_boundary		64	70	75	81	83	80	76	72
	Sound Power Level...		Leq	77	54	60	65	71	73	70	66	62
	Energy Distribution	Q	2		0	0	0	0	0	0	0	0
	Multiple Units	Number	4		6	6	6	6	6	6	6	6
	Distance Loss	Dist (m)	23		35	35	35	35	35	35	35	35
	True Height of Barrier	Actual (m)	2.0	0.5	6	7	8	10	12	15	18	21
	Lp Contribution at Receptor:			35	19	24	28	32	31	26	18	10

Barrier Loss Calc'n — Distances: Source to Barrier 22; Barrier to Recep 1; Eff wall Height 0.5; Screen Wall Loss = 5.9 | 6.6 | 7.9 | 9.8; B = 4 (duct width (metres) normal t); 34.5 | 18.9 | 24.2 | 27.9 | 32.0
Reference Heights: Source 82.0; Receptor 82.7; Barrier Base 81.2

	Description	Comments	Input		Noise Levels - dB							
4				dBA	63	125	250	500	1000	2000	4000	8000
	3-5	Barrier:	NE_boundary		64	70	75	81	83	80	76	72
	Sound Power Level...		Leq	77	54	60	65	71	73	70	66	62
	Energy Distribution	Q	2		0	0	0	0	0	0	0	0
	Multiple Units	Number	4		6	6	6	6	6	6	6	6
	Distance Loss	Dist (m)	29		37	37	37	37	37	37	37	37
	True Height of Barrier	Actual (m)	2.0	0.5	5	6	6	8	9	12	15	18
	Lp Contribution at Receptor:			35	17	23	27	32	32	27	20	12

Barrier Loss Calc'n — Distances: Source to Barrier 27; Barrier to Recep 2; Eff wall Height 0.5; Screen Wall Loss = 5.4 | 5.8 | 6.4 | 7.6; B = 4 (duct width (metres) normal t); 35.3 | 17.4 | 23.0 | 27.3 | 32.2
Reference Heights: Source 83.0; Receptor 82.7; Barrier Base 81.2

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	Description	Comments	Input		Noise Levels - dB							
5				dBA	63	125	250	500	1000	2000	4000	8000
	3-5	Barrier:	NE_boundary		64	70	75	81	83	80	76	72
	Sound Power Level...		Leq	77	54	60	65	71	73	70	66	62
	Energy Distribution	Q	2		0	0	0	0	0	0	0	0
	Multiple Units	Number	4		6	6	6	6	6	6	6	6
	Distance Loss	Dist (m)	26		36	36	36	36	36	36	36	36
	True Height of Barrier	Actual (m)	2.0	0.7	5	6	6	8	9	12	15	18
	Lp Contribution at Receptor:			36	18	24	28	33	33	28	21	13

Barrier Loss Calc'n — Distances: Source to Barrier 22; Barrier to Recep 4; Eff wall Height 0.7; Screen Wall Loss = 5.4 | 5.8 | 6.5 | 7.7; B = 4 (duct width (metres) normal t); 36.2 | 18.3 | 23.9 | 28.2 | 33.1
Reference Heights: Source 83.0; Receptor 82.7; Barrier Base 81.4

	Description	Comments	Input		Noise Levels - dB							
6				dBA	63	125	250	500	1000	2000	4000	8000
	3-5	Barrier:	NE_boundary		64	70	75	81	83	80	76	72
	Sound Power Level...		Leq	77	54	60	65	71	73	70	66	62
	Energy Distribution	Q	2		0	0	0	0	0	0	0	0
	Multiple Units	Number	4		6	6	6	6	6	6	6	6
	Distance Loss	Dist (m)	16		32	32	32	32	32	32	32	32
	True Height of Barrier	Actual (m)	2.0	0.8	6	7	8	11	13	16	19	22
	Lp Contribution at Receptor:			37	22	27	31	34	34	28	21	13

Barrier Loss Calc'n — Distances: Source to Barrier 14; Barrier to Recep 2; Eff wall Height 0.8; Screen Wall Loss = 6.1 | 7.0 | 8.4 | 10.5; B = 4 (duct width (metres) normal t); 36.8 | 21.9 | 27.0 | 30.5 | 34.4
Reference Heights: Source 82.0; Receptor 82.7; Barrier Base 81.4

	Description	Comments	Input		Noise Levels - dB							
7				dBA	63	125	250	500	1000	2000	4000	8000
	3-5	Barrier:	NE_boundary		64	70	75	81	83	80	76	72
	Sound Power Level...		Leq	77	54	60	65	71	73	70	66	62
	Energy Distribution	Q	2		0	0	0	0	0	0	0	0
	Multiple Units	Number	4		6	6	6	6	6	6	6	6
	Distance Loss	Dist (m)	6		24	24	24	24	24	24	24	24
	True Height of Barrier	Actual (m)	2.6	1.8	11	14	17	20	23	24	24	24
	Lp Contribution at Receptor:			37	26	29	31	34	33	28	24	20

Barrier Loss Calc'n — Distances: Source to Barrier 5; Barrier to Recep 1; Eff wall Height 1.8; Screen Wall Loss = 10.9 | 13.6 | 16.5 | 19.5; B = 4 (duct width (metres) normal t); 36.7 | 25.5 | 28.9 | 31.0 | 34.0
Reference Heights: Source 81.8; Receptor 82.7; Barrier Base 81.8

	Total Sound Power Level			84	61	67	73	79	81	78	74	70
				dBA	63	125	250	500	1000	2000	4000	8000
	Total Lp at Receptor			44	30	34	38	42	41	36	29	23
	A" Weighted Lp				3	18	29	39	41	37	30	22
	Noise Criterion			45	67	57	49	44	40	37	36	33

84.2 | 61.5 | 67.5 | 72.6 | 78.6
44.5 | 29.6 | 34.2 | 37.8 | 41.8
Excess Noise Computation
40.0 | 67.1 | 56.8 | 49.2 | 43.8

7460-1 Appendix D7

Outdoor Noise Propagation Computation (Propout.xls)
Version

DAY DESIGN PTY LTD
Engineer: SG/BL
Project no: 7460-1
Date:

Client ..... Boskovitz Lawyers
Project Title..... 26 Beattie Ave, Denistone East
Operation ..... Outdoor Play

Atmosphere:
Temp 20
RH% 80

Receptor Location..... 28 Beattie Ave, Denistone East
Noise Criterion ..... 45 dBA at residence any time
Predicted Lp at Receptor = 44 dBA

	Description	Comments	Input		dBA	63	125	250	500	1000	2000	4000	8000
1.						Noise Levels - dB							
	0-2	Barrier:	NE_boundary			54	60	66	72	74	71	67	64
	Sound Power Level...		Leq		68	44	50	56	62	64	61	57	54
	Energy Distribution	Q	2			0	0	0	0	0	0	0	0
	Multiple Units	Number	5			7	7	7	7	7	7	7	7
	Distance Loss	Dist (m)	25			36	36	36	36	36	36	36	36
	True Height of Barrier	Actual (m)	2.0		0.9	7	9	11	13	16	19	22	24
	Lp Contribution at Receptor:				22	8	13	16	20	19	13	5	0
	Description	Comments	Input		dBA	63	125	250	500	1000	2000	4000	8000
2						Noise Levels - dB							
	2-3	Barrier:	NE_boundary			61	67	73	79	81	78	74	70
	Sound Power Level...		Leq		75	51	57	63	69	71	68	64	60
	Energy Distribution	Q	2			0	0	0	0	0	0	0	0
	Multiple Units	Number	10			10	10	10	10	10	10	10	10
	Distance Loss	Dist (m)	18			33	33	33	33	33	33	33	33
	True Height of Barrier	Actual (m)	2.0		0.9	7	9	11	14	16	19	22	24
	Lp Contribution at Receptor:				35	21	25	29	32	31	25	18	12
	Description	Comments	Input		dBA	63	125	250	500	1000	2000	4000	8000
3						Noise Levels - dB							
	3-5	Barrier:	NE_boundary			64	70	75	81	83	80	76	72
	Sound Power Level...		Leq		77	54	60	65	71	73	70	66	62
	Energy Distribution	Q	2			0	0	0	0	0	0	0	0
	Multiple Units	Number	4			6	6	6	6	6	6	6	6
	Distance Loss	Dist (m)	16			32	32	32	32	32	32	32	32
	True Height of Barrier	Actual (m)	2.0		0.9	7	9	11	14	16	19	22	24
	Lp Contribution at Receptor:				34	21	25	28	31	30	24	17	11
	Description	Comments	Input		dBA	63	125	250	500	1000	2000	4000	8000
4						Noise Levels - dB							
	3-5	Barrier:	NE_boundary			64	70	75	81	83	80	76	72
	Sound Power Level...		Leq		77	54	60	65	71	73	70	66	62
	Energy Distribution	Q	2			0	0	0	0	0	0	0	0
	Multiple Units	Number	4			6	6	6	6	6	6	6	6
	Distance Loss	Dist (m)	16			32	32	32	32	32	32	32	32
	True Height of Barrier	Actual (m)	2.0		1.0	7	9	11	14	17	20	23	24
	Lp Contribution at Receptor:				33	21	25	28	31	30	24	17	11
	Description	Comments	Input		dBA	63	125	250	500	1000	2000	4000	8000
5						Noise Levels - dB							
	3-5	Barrier:	NE_boundary			64	70	75	81	83	80	76	72
	Sound Power Level...		Leq		77	54	60	65	71	73	70	66	62
	Energy Distribution	Q	2			0	0	0	0	0	0	0	0
	Multiple Units	Number	4			6	6	6	6	6	6	6	6
	Distance Loss	Dist (m)	8			26	26	26	26	26	26	26	26
	True Height of Barrier	Actual (m)	2.0		1.0	8	9	12	14	17	20	23	24
	Lp Contribution at Receptor:				39	26	31	33	37	36	30	23	17
	Description	Comments	Input		dBA	63	125	250	500	1000	2000	4000	8000
6						Noise Levels - dB							
	3-5	Barrier:	NE_boundary			64	70	75	81	83	80	76	72
	Sound Power Level...		Leq		77	54	60	65	71	73	70	66	62
	Energy Distribution	Q	2			0	0	0	0	0	0	0	0
	Multiple Units	Number	4			6	6	6	6	6	6	6	6
	Distance Loss	Dist (m)	8			26	26	26	26	26	26	26	26
	True Height of Barrier	Actual (m)	2.0		1.0	8	10	12	15	18	21	24	24
	Lp Contribution at Receptor:				38	26	30	33	36	35	29	22	17
	Description	Comments	Input		dBA	63	125	250	500	1000	2000	4000	8000
7						Noise Levels - dB							
	3-5	Barrier:	NE_boundary			64	70	75	81	83	80	76	72
	Sound Power Level...		Leq		77	54	60	65	71	73	70	66	62
	Energy Distribution	Q	2			0	0	0	0	0	0	0	0
	Multiple Units	Number	4			6	6	6	6	6	6	6	6
	Distance Loss	Dist (m)	17			33	33	33	33	33	33	33	33
	True Height of Barrier	Actual (m)	2.0		1.1	6	7	8	11	13	16	19	22
	Lp Contribution at Receptor:				36	21	26	30	34	33	27	20	12
	Total Sound Power Level				84	61	67	73	79	81	78	74	70
					dBA	63	125	250	500	1000	2000	4000	8000
	Total Lp at Receptor				44	31	36	39	42	41	35	28	22
	A" Weighted Lp					5	20	30	39	41	36	29	21
	Noise Criterion				45	67	57	49	44	40	37	36	33

35

dBA	63	125	250	500
78	54	60	66	72
85	61	67	73	79
87	64	70	75	81

Barrier Loss Calc'n		Non-Neutral Weather Conditic
Distances		Reference Heights
Source to Barrier	24	Source 81.8
Barrier to Recep	1	Receptor 82.9
Eff wall Height	0.9	Barrier Base 81.8
Screen Wall Loss =	7.0	8.5 10.6 13.5
B =	4	duct width (metres) normal t
22.0	8.0	12.5 16.4 19.7

Barrier Loss Calc'n		Non-Neutral Weather Conditic
Distances		Reference Heights
Source to Barrier	17	Source 81.8
Barrier to Recep	1	Receptor 82.9
Eff wall Height	0.9	Barrier Base 81.8
Screen Wall Loss =	7.1	9.7 10.9 13.6
B =	4	duct width (metres) normal t
34.6	20.8	25.2 29.0 32.3

Barrier Loss Calc'n		Non-Neutral Weather Conditic
Distances		Reference Heights
Source to Barrier	15	Source 82.0
Barrier to Recep	1	Receptor 82.9
Eff wall Height	0.9	Barrier Base 81.8
Screen Wall Loss =	7.1	8.7 10.9 13.5
B =	4	duct width (metres) normal t
33.6	20.8	25.3 28.1 31.4

Barrier Loss Calc'n		Non-Neutral Weather Conditic
Distances		Reference Heights
Source to Barrier	15	Source 83.0
Barrier to Recep	1	Receptor 82.9
Eff wall Height	1.0	Barrier Base 81.9
Screen Wall Loss =	7.4	9.0 11.3 14.1
B =	4	duct width (metres) normal t
33.1	20.6	24.9 27.6 30.9
		90 87

Barrier Loss Calc'n		Non-Neutral Weather Conditic
Distances		Reference Heights
Source to Barrier	7	Source 83.0
Barrier to Recep	1	Receptor 82.9
Eff wall Height	1.0	Barrier Base 81.9
Screen Wall Loss =	7.5	9.2 11.6 14.3
B =	4	duct width (metres) normal t
38.8	26.5	30.7 33.4 36.6

Barrier Loss Calc'n		Non-Neutral Weather Conditic
Distances		Reference Heights
Source to Barrier	7	Source 82.0
Barrier to Recep	1	Receptor 82.9
Eff wall Height	1.0	Barrier Base 81.8
Screen Wall Loss =	7.7	9.5 12.0 14.8
B =	4	duct width (metres) normal t
38.4	26.2	30.4 33.0 36.2

Barrier Loss Calc'n		Non-Neutral Weather Conditic
Distances		Reference Heights
Source to Barrier	13	Source 81.8
Barrier to Recep	4	Receptor 82.9
Eff wall Height	1.1	Barrier Base 81.7
Screen Wall Loss =	6.1	7.0 8.5 10.6
B =	4	duct width (metres) normal t
36.2	21.3	26.4 29.9 33.8
84.2	61.5	67.5 72.6 78.6
	63	125 250 500
44.2	31.3	35.7 38.6 41.9
Excess Noise Computation		
40.0	67.1	56.8 49.2 43.8

7460-1 Appendix D8

Outdoor Noise Propagation Computation (Propout.xls)
Version

DAY DESIGN PTY LTD
Engineer: SG/BL
Project no: 7460-1
Date:

Client ..... Boskovitz Lawyers
Project Title. ..... 26 Beattie Ave, Denistone East
Operation ..... Outdoor Play

Atmosphere:
Temp 20
RH% 80

Receptor Location..... 21 Haig Ave, Denistone East
Noise Criterion ..... 45 dBA at residence any time
Predicted Lp at Receptor = 41 dBA

	dBA	63	125	250	500
	78	54	60	66	72
	85	61	67	73	79
	87	64	70	75	81

	Description	Comments	Input		Noise Levels - dB							
1.				dBA	63	125	250	500	1000	2000	4000	8000
	0-2	Barrier:	SW_boundary		54	60	66	72	74	71	67	64
	Sound Power Level...		Leq	68	44	50	56	62	64	61	57	54
	Energy Distribution	Q	2		0	0	0	0	0	0	0	0
	Multiple Units	Number	5		7	7	7	7	7	7	7	7
	Distance Loss	Dist (m)	35		39	39	39	39	39	39	39	39
	True Height of Barrier	Actual (m)	2.4	1.9	6	8	9	12	15	18	21	24
	Lp Contribution at Receptor:			21	6	11	15	18	18	11	4	0

Barrier Loss Calc'n		Actual Weather Conditions
Distances		Reference Heights
Source to Barrier	10	Source 81.8
Barrier to Recep	25	Receptor 84.3
Eff wall Height	1.9	Barrier Base 82.0
Screen Wall Loss =	6.4	7.6 9.4 11.7
B =	4	duct width (metres) normal t
20.6	5.7	10.5 14.7 18.4

	Description	Comments	Input		Noise Levels - dB							
2				dBA	63	125	250	500	1000	2000	4000	8000
	2-3	Barrier:	SW_boundary		61	67	73	79	81	78	74	70
	Sound Power Level...		Leq	75	51	57	63	69	71	68	64	60
	Energy Distribution	Q	2		0	0	0	0	0	0	0	0
	Multiple Units	Number	10		10	10	10	10	10	10	10	10
	Distance Loss	Dist (m)	29		37	37	37	37	37	37	37	37
	True Height of Barrier	Actual (m)	2.4	1.6	6	7	8	11	13	16	19	22
	Lp Contribution at Receptor:			34	18	23	27	31	31	25	17	9

Barrier Loss Calc'n		Actual Weather Conditions
Distances		Reference Heights
Source to Barrier	15	Source 81.8
Barrier to Recep	14	Receptor 84.3
Eff wall Height	2.6	Barrier Base 82.3
Screen Wall Loss =	6.1	7.0 8.4 10.6
B =	4	duct width (metres) normal t
33.6	17.7	22.8 27.3 31.2

	Description	Comments	Input		Noise Levels - dB							
3				dBA	63	125	250	500	1000	2000	4000	8000
	3-5	Barrier:	SW_boundary		64	70	75	81	83	80	76	72
	Sound Power Level...		Leq	77	54	60	65	71	73	70	66	62
	Energy Distribution	Q	2		0	0	0	0	0	0	0	0
	Multiple Units	Number	4		6	6	6	6	6	6	6	6
	Distance Loss	Dist (m)	22		35	35	35	35	35	35	35	35
	True Height of Barrier	Actual (m)	2.4	1.7	7	8	10	12	15	18	21	24
	Lp Contribution at Receptor:			32	19	23	27	30	29	23	16	8

Barrier Loss Calc'n		Actual Weather Conditions
Distances		Reference Heights
Source to Barrier	10	Source 82.0
Barrier to Recep	12	Receptor 84.3
Eff wall Height	1.7	Barrier Base 82.4
Screen Wall Loss =	6.5	7.7 9.6 12.0
B =	4	duct width (metres) normal t
32.4	18.6	23.4 26.6 30.1

	Description	Comments	Input		Noise Levels - dB							
4				dBA	63	125	250	500	1000	2000	4000	8000
	3-5	Barrier:	SW_boundary		64	70	75	81	83	80	76	72
	Sound Power Level...		Leq	77	54	60	65	71	73	70	66	62
	Energy Distribution	Q	2		0	0	0	0	0	0	0	0
	Multiple Units	Number	4		6	6	6	6	6	6	6	6
	Distance Loss	Dist (m)	16		32	32	32	32	32	32	32	32
	True Height of Barrier	Actual (m)	2.4	1.7	7	8	10	13	16	19	22	24
	Lp Contribution at Receptor:			34	21	26	29	32	31	25	18	11

Barrier Loss Calc'n		Actual Weather Conditions
Distances		Reference Heights
Source to Barrier	7	Source 83.0
Barrier to Recep	9	Receptor 84.3
Eff wall Height	1.7	Barrier Base 82.8
Screen Wall Loss =	6.9	8.3 10.4 13.0
B =	4	duct width (metres) normal t
34.1	21.0	25.6 28.5 33.9

	Description	Comments	Input		Noise Levels - dB							
5				dBA	63	125	250	500	1000	2000	4000	8000
	3-5	Barrier:	NW_boundary		64	70	75	81	83	80	76	72
	Sound Power Level...		Leq	77	54	60	65	71	73	70	66	62
	Energy Distribution	Q	2		0	0	0	0	0	0	0	0
	Multiple Units	Number	4		6	6	6	6	6	6	6	6
	Distance Loss	Dist (m)	23		35	35	35	35	35	35	35	35
	True Height of Barrier	Actual (m)	2.0	1.0	6	6	7	8	10	13	16	19
	Lp Contribution at Receptor:			36	19	25	29	33	33	28	20	12

Barrier Loss Calc'n		Actual Weather Conditions
Distances		Reference Heights
Source to Barrier	12	Source 83.0
Barrier to Recep	11	Receptor 84.3
Eff wall Height	3.0	Barrier Base 82.7
Screen Wall Loss =	5.5	6.0 6.9 8.4
B =	4	duct width (metres) normal t
36.3	19.2	24.7 28.9 33.4

	Description	Comments	Input		Noise Levels - dB							
6				dBA	63	125	250	500	1000	2000	4000	8000
	3-5	Barrier:	SW_boundary		64	70	75	81	83	80	76	72
	Sound Power Level...		Leq	77	54	60	65	71	73	70	66	62
	Energy Distribution	Q	2		0	0	0	0	0	0	0	0
	Multiple Units	Number	4		6	6	6	6	6	6	6	6
	Distance Loss	Dist (m)	30		38	38	38	38	38	38	38	38
	True Height of Barrier	Actual (m)	2.4	1.7	6	7	9	11	14	17	20	23
	Lp Contribution at Receptor:			31	16	21	25	28	27	21	14	6

Barrier Loss Calc'n		Actual Weather Conditions
Distances		Reference Heights
Source to Barrier	20	Source 82.0
Barrier to Recep	10	Receptor 84.3
Eff wall Height	1.7	Barrier Base 82.8
Screen Wall Loss =	6.3	7.9 9.0 11.2
B =	4	duct width (metres) normal t
30.6	16.2	21.2 24.5 28.8

	Description	Comments	Input		Noise Levels - dB							
7				dBA	63	125	250	500	1000	2000	4000	8000
	3-5	Barrier:	SW_boundary		64	70	75	81	83	80	76	72
	Sound Power Level...		Leq	77	54	60	65	71	73	70	66	62
	Energy Distribution	Q	2		0	0	0	0	0	0	0	0
	Multiple Units	Number	4		6	6	6	6	6	6	6	6
	Distance Loss	Dist (m)	39		40	40	40	40	40	40	40	40
	True Height of Barrier	Actual (m)	2.4	1.2	6	6	7	8	10	13	16	19
	Lp Contribution at Receptor:			32	15	20	24	29	29	23	16	7

Barrier Loss Calc'n		Actual Weather Conditions
Distances		Reference Heights
Source to Barrier	28	Source 81.8
Barrier to Recep	11	Receptor 84.3
Eff wall Height	1.2	Barrier Base 82.4
Screen Wall Loss =	5.5	6.0 6.9 8.4
B =	4	duct width (metres) normal t
31.6	14.7	20.2 24.3 28.8

Total Sound Power Level			84	61	67	73	79	81	78	74	70
			dBA	63	125	250	500	1000	2000	4000	8000
Total Lp at Receptor			41	26	31	35	39	38	32	25	18
A" Weighted Lp				0	15	26	36	38	34	26	16
Noise Criterion			45	67	57	49	44	40	37	36	33

84.2	61.5	67.5	72.6	78.6
	63	125	250	500
41.3	26.2	31.2	34.9	38.8
Excess Noise Computation				
40.0	67.1	56.8	49.2	43.8

7460-1 Appendix D9

Outdoor Noise Propagation Computation (Propout.xls)
Version

DAY DESIGN PTY LTD
Engineer: SG/BL
Project no: 7460-1
Date:

Client ..... Boskovitz Lawyers
Project Title..... 26 Beattie Ave, Denistone East
Operation ..... Outdoor Play

Atmosphere:
Temp 20
RH% 80

Receptor Location..... 23 Haig Ave, Denistone East
Noise Criterion ..... 45 dBA at residence any time
Predicted Lp at Receptor = 45 dBA

	Description	Comments	Input		dBA	63	125	250	500	1000	2000	4000	8000
1						Noise Levels - dB							
	0-2	Barrier:	NW_boundary			54	60	66	72	74	71	67	64
	Sound Power Level...		Leq	68		44	50	56	62	64	61	57	54
	Energy Distribution	Q	2			0	0	0	0	0	0	0	0
	Multiple Units	Number	5			7	7	7	7	7	7	7	7
	Distance Loss	Dist (m)	37			39	39	39	39	39	39	39	39
	True Height of Barrier	Actual (m)	2.0		0.9	5	6	7	8	10	12	15	18
	Lp Contribution at Receptor:				25	6	12	17	22	22	16	9	1
2	Description	Comments	Input		dBA	63	125	250	500	1000	2000	4000	8000
						Noise Levels - dB							
	2-3	Barrier:	NW_boundary			61	67	73	79	81	78	74	70
	Sound Power Level...		Leq	75		51	57	63	69	71	68	64	60
	Energy Distribution	Q	2			0	0	0	0	0	0	0	0
	Multiple Units	Number	10			10	10	10	10	10	10	10	10
	Distance Loss	Dist (m)	29			37	37	37	37	37	37	37	37
	True Height of Barrier	Actual (m)	2.0		1.1	6	6	7	9	11	14	17	20
	Lp Contribution at Receptor:				36	18	24	29	33	33	27	20	12
3	Description	Comments	Input		dBA	63	125	250	500	1000	2000	4000	8000
						Noise Levels - dB							
	3-5	Barrier:	NW_boundary			64	70	75	81	83	80	76	72
	Sound Power Level...		Leq	77		54	60	65	71	73	70	66	62
	Energy Distribution	Q	2			0	0	0	0	0	0	0	0
	Multiple Units	Number	4			6	6	6	6	6	6	6	6
	Distance Loss	Dist (m)	22			35	35	35	35	35	35	35	35
	True Height of Barrier	Actual (m)	2.0		1.2	6	7	8	10	12	15	18	21
	Lp Contribution at Receptor:				35	19	25	28	32	32	26	19	11
4	Description	Comments	Input		dBA	63	125	250	500	1000	2000	4000	8000
						Noise Levels - dB							
	3-5	Barrier:	NW_boundary			64	70	75	81	83	80	76	72
	Sound Power Level...		Leq	77		54	60	65	71	73	70	66	62
	Energy Distribution	Q	2			0	0	0	0	0	0	0	0
	Multiple Units	Number	4			6	6	6	6	6	6	6	6
	Distance Loss	Dist (m)	15			32	32	32	32	32	32	32	32
	True Height of Barrier	Actual (m)	2.0		0.9	6	6	7	9	12	14	17	20
	Lp Contribution at Receptor:				39	23	28	32	36	36	30	23	15
5	Description	Comments	Input		dBA	63	125	250	500	1000	2000	4000	8000
						Noise Levels - dB							
	3-5	Barrier:	NW_boundary			64	70	75	81	83	80	76	72
	Sound Power Level...		Leq	77		54	60	65	71	73	70	66	62
	Energy Distribution	Q	2			0	0	0	0	0	0	0	0
	Multiple Units	Number	4			6	6	6	6	6	6	6	6
	Distance Loss	Dist (m)	14			31	31	31	31	31	31	31	31
	True Height of Barrier	Actual (m)	2.0		0.9	6	6	7	9	11	14	17	20
	Lp Contribution at Receptor:				40	23	29	33	37	37	31	24	16
6	Description	Comments	Input		dBA	63	125	250	500	1000	2000	4000	8000
						Noise Levels - dB							
	3-5	Barrier:	NW_boundary			64	70	75	81	83	80	76	72
	Sound Power Level...		Leq	77		54	60	65	71	73	70	66	62
	Energy Distribution	Q	2			0	0	0	0	0	0	0	0
	Multiple Units	Number	4			6	6	6	6	6	6	6	6
	Distance Loss	Dist (m)	24			36	36	36	36	36	36	36	36
	True Height of Barrier	Actual (m)	2.0		1.0	6	6	7	9	11	14	17	20
	Lp Contribution at Receptor:				35	19	24	28	33	32	27	19	11
7	Description	Comments	Input		dBA	63	125	250	500	1000	2000	4000	8000
						Noise Levels - dB							
	3-5	Barrier:	NW_boundary			64	70	75	81	83	80	76	72
	Sound Power Level...		Leq	77		54	60	65	71	73	70	66	62
	Energy Distribution	Q	2			0	0	0	0	0	0	0	0
	Multiple Units	Number	4			6	6	6	6	6	6	6	6
	Distance Loss	Dist (m)	35			39	39	39	39	39	39	39	39
	True Height of Barrier	Actual (m)	2.0		0.8	5	6	6	7	9	12	14	17
	Lp Contribution at Receptor:				34	16	21	26	31	31	25	18	10
	Total Sound Power Level				84	61	67	73	79	81	78	74	70
					dBA	63	125	250	500	1000	2000	4000	8000
	Total Lp at Receptor				45	28	34	38	42	42	36	29	21
	A" Weighted Lp					2	18	29	39	42	37	30	20
	Noise Criterion				45	67	57	49	44	40	37	36	33

dBA	63	125	250	500
78	54	60	66	72
85	61	67	73	79
87	64	70	75	81

Barrier Loss Calc'n		For Normal Weather Conditi
Distances		Reference Heights
Source to Barrier	29	Source 81.8
Barrier to Recep	8	Receptor 84.2
Eff wall Height	0.9	Barrier Base 82.6
Screen Wall Loss =	5.4	5.8 6.6 7.8
B =	4	duct width (metres) normal t
24.8	6.2	11.8 17.1 21.8

Barrier Loss Calc'n		For Normal Weather Conditi
Distances		Reference Heights
Source to Barrier	21	Source 81.8
Barrier to Recep	8	Receptor 84.2
Eff wall Height	1.1	Barrier Base 82.6
Screen Wall Loss =	5.6	6.2 7.1 8.7
B =	4	duct width (metres) normal t
35.8	18.1	23.6 28.6 33.1

Barrier Loss Calc'n		For Normal Weather Conditi
Distances		Reference Heights
Source to Barrier	14	Source 82.0
Barrier to Recep	8	Receptor 84.2
Eff wall Height	1.2	Barrier Base 82.6
Screen Wall Loss =	5.9	6.6 7.9 9.8
B =	4	duct width (metres) normal t
34.9	19.3	24.6 28.3 32.4

Barrier Loss Calc'n		For Normal Weather Conditi
Distances		Reference Heights
Source to Barrier	6	Source 83.0
Barrier to Recep	9	Receptor 84.2
Eff wall Height	0.9	Barrier Base 82.4
Screen Wall Loss =	5.7	6.4 7.5 9.2
B =	4	duct width (metres) normal t
38.9	22.8	28.1 32.0 36.3

Barrier Loss Calc'n		For Normal Weather Conditi
Distances		Reference Heights
Source to Barrier	6	Source 83.0
Barrier to Recep	8	Receptor 84.2
Eff wall Height	0.9	Barrier Base 82.4
Screen Wall Loss =	5.7	6.3 7.4 9.1
B =	4	duct width (metres) normal t
39.6	23.4	28.8 32.7 37.0

Barrier Loss Calc'n		For Normal Weather Conditi
Distances		Reference Heights
Source to Barrier	16	Source 82.0
Barrier to Recep	8	Receptor 84.2
Eff wall Height	1.0	Barrier Base 82.5
Screen Wall Loss =	5.6	6.2 7.2 8.8
B =	4	duct width (metres) normal t
35.4	18.8	24.2 28.2 32.6

Barrier Loss Calc'n		For Normal Weather Conditi
Distances		Reference Heights
Source to Barrier	27	Source 81.8
Barrier to Recep	8	Receptor 84.2
Eff wall Height	0.8	Barrier Base 82.5
Screen Wall Loss =	5.4	5.7 6.4 7.5
B =	4	duct width (metres) normal t
33.8	15.8	21.4 25.8 30.6

84.2	61.5	67.5	72.6	78.6
	63	125	250	500
44.8	28.3	33.7	37.7	42.1
Excess Noise Computation				
40.0	67.1	56.8	49.2	43.8

90 87

7460-1 Appendix D10

Outdoor Noise Propagation Computation (Propout.xls)
Version

DAY DESIGN PTY LTD
Engineer: SG/BL
Project no: 7460-1
Date:

Client ..... Boskovitz Lawyers
Project Title. ..... 26 Beattie Ave, Denistone East
Operation ..... Outdoor Play

Atmosphere:
Temp 20
RH% 80

Receptor Location. ..... 25 Haig Ave, Denistone East
Noise Criterion ..... 45 dBA at residence any time
Predicted Lp at Receptor = 45 dBA

	dBA	63	125	250	500
		78	54	60	65	72
		85	61	67	73	79
		87	64	70	75	81

	Description	Comments	Input		Noise Levels - dB							
				dBA	63	125	250	500	1000	2000	4000	8000
1.	0-2	Barrier:	NW_boundary		54	60	66	72	74	71	67	64
	Sound Power Level...		Leq	68	44	50	56	62	64	61	57	54
	Energy Distribution	Q	2		0	0	0	0	0	0	0	0
	Multiple Units	Number	5		7	7	7	7	7	7	7	7
	Distance Loss	Dist (m)	39		40	40	40	40	40	40	40	40
	True Height of Barrier	Actual (m)	2.0	0.7	5	6	6	7	9	11	13	16
	Lp Contribution at Receptor:			25	6	12	17	22	22	17	10	2
	Description	Comments	Input		Noise Levels - dB							
2				dBA	63	125	250	500	1000	2000	4000	8000
	2-3	Barrier:	NW_boundary		61	67	73	79	81	78	74	70
	Sound Power Level...		Leq	75	51	57	63	69	71	68	64	60
	Energy Distribution	Q	2		0	0	0	0	0	0	0	0
	Multiple Units	Number	10		10	10	10	10	10	10	10	10
	Distance Loss	Dist (m)	31		38	38	38	38	38	38	38	38
	True Height of Barrier	Actual (m)	2.0	0.8	5	6	6	8	9	12	15	18
	Lp Contribution at Receptor:			37	18	23	29	34	34	28	21	13
	Description	Comments	Input		Noise Levels - dB							
3				dBA	63	125	250	500	1000	2000	4000	8000
	3-5	Barrier:	NW_boundary		64	70	75	81	83	80	76	72
	Sound Power Level...		Leq	77	54	60	65	71	73	70	66	62
	Energy Distribution	Q	2		0	0	0	0	0	0	0	0
	Multiple Units	Number	4		6	6	6	6	6	6	6	6
	Distance Loss	Dist (m)	26		36	36	36	36	36	36	36	36
	True Height of Barrier	Actual (m)	2.0	1.0	6	6	7	9	11	13	16	19
	Lp Contribution at Receptor:			35	18	24	28	32	32	26	19	11
	Description	Comments	Input		Noise Levels - dB							
4				dBA	63	125	250	500	1000	2000	4000	8000
	3-5	Barrier:	NW_boundary		64	70	75	81	83	80	76	72
	Sound Power Level...		Leq	77	54	60	65	71	73	70	66	62
	Energy Distribution	Q	2		0	0	0	0	0	0	0	0
	Multiple Units	Number	4		6	6	6	6	6	6	6	6
	Distance Loss	Dist (m)	21		34	34	34	34	34	34	34	34
	True Height of Barrier	Actual (m)	2.0	0.9	6	6	7	8	10	13	16	19
	Lp Contribution at Receptor:			37	20	26	30	34	34	29	21	13
	Description	Comments	Input		Noise Levels - dB							
5				dBA	63	125	250	500	1000	2000	4000	8000
	3-5	Barrier:	NW_boundary		64	70	75	81	83	80	76	72
	Sound Power Level...		Leq	77	54	60	65	71	73	70	66	62
	Energy Distribution	Q	2		0	0	0	0	0	0	0	0
	Multiple Units	Number	4		6	6	6	6	6	6	6	6
	Distance Loss	Dist (m)	14		31	31	31	31	31	31	31	31
	True Height of Barrier	Actual (m)	2.0	0.9	6	6	7	9	11	14	17	20
	Lp Contribution at Receptor:			40	23	29	33	37	37	31	24	16
	Description	Comments	Input		Noise Levels - dB							
6				dBA	63	125	250	500	1000	2000	4000	8000
	3-5	Barrier:	NE_boundary		64	70	75	81	83	80	76	72
	Sound Power Level...		Leq	77	54	60	65	71	73	70	66	62
	Energy Distribution	Q	2		0	0	0	0	0	0	0	0
	Multiple Units	Number	4		6	6	6	6	6	6	6	6
	Distance Loss	Dist (m)	23		35	35	35	35	35	35	35	35
	True Height of Barrier	Actual (m)	2.0	1.0	6	6	7	8	10	13	16	19
	Lp Contribution at Receptor:			36	19	25	29	33	33	28	21	12
	Description	Comments	Input		Noise Levels - dB							
7				dBA	63	125	250	500	1000	2000	4000	8000
	3-5	Barrier:	R2_roof_parapet		64	70	75	81	83	80	76	72
	Sound Power Level...		Leq	77	54	60	65	71	73	70	66	62
	Energy Distribution	Q	2		0	0	0	0	0	0	0	0
	Multiple Units	Number	4		6	6	6	6	6	6	6	6
	Distance Loss	Dist (m)	33		38	38	38	38	38	38	38	38
	True Height of Barrier	Actual (m)	0.0	1.2	6	6	7	9	11	13	16	19
	Lp Contribution at Receptor:			33	16	22	26	30	30	24	17	8
	Total Sound Power Level			84	61	67	73	79	81	78	74	70
				dBA	63	125	250	500	1000	2000	4000	8000
	Total Lp at Receptor			45	28	33	37	42	42	36	29	21
	A" Weighted Lp				1	17	29	39	42	37	30	20
	Noise Criterion			45	67	57	49	44	40	37	36	33

Barrier Loss Calc'n		Ref: Vertical Weather Conditions
Distances		Reference Heights
Source to Barrier	33	Source 81.8
Barrier to Recep	6	Receptor 83.7
Eff wall Height	0.7	Barrier Base 82.1
Screen Wall Loss =	5.3	5.6 6.1 7.1
B =	4	duct width (metres) normal to
25.4	5.9	11.6 17.0 22.1

Barrier Loss Calc'n		Ref: Vertical Weather Conditions
Distances		Reference Heights
Source to Barrier	25	Source 81.8
Barrier to Recep	6	Receptor 83.7
Eff wall Height	0.8	Barrier Base 82.1
Screen Wall Loss =	5.4	5.8 6.4 7.6
B =	4	duct width (metres) normal to
36.7	17.8	23.4 28.7 33.6

Barrier Loss Calc'n		Ref: Vertical Weather Conditions
Distances		Reference Heights
Source to Barrier	18	Source 82.0
Barrier to Recep	8	Receptor 83.7
Eff wall Height	1.0	Barrier Base 82.2
Screen Wall Loss =	5.5	6.1 7.1 8.6
B =	4	duct width (metres) normal to
34.9	18.1	23.6 27.6 32.1

Barrier Loss Calc'n		Ref: Vertical Weather Conditions
Distances		Reference Heights
Source to Barrier	11	Source 83.0
Barrier to Recep	10	Receptor 83.7
Eff wall Height	0.9	Barrier Base 82.3
Screen Wall Loss =	5.5	6.0 6.9 8.3
B =	4	duct width (metres) normal to
37.1	20.0	25.6 29.7 34.3
		90 87

Barrier Loss Calc'n		Ref: Vertical Weather Conditions
Distances		Reference Heights
Source to Barrier	7	Source 83.0
Barrier to Recep	7	Receptor 83.7
Eff wall Height	0.9	Barrier Base 82.2
Screen Wall Loss =	5.6	6.2 7.2 8.9
B =	4	duct width (metres) normal to
40.0	23.4	28.9 32.9 37.2

Barrier Loss Calc'n		Ref: Vertical Weather Conditions
Distances		Reference Heights
Source to Barrier	14	Source 82.0
Barrier to Recep	9	Receptor 83.7
Eff wall Height	1.0	Barrier Base 82.0
Screen Wall Loss =	5.5	6.0 6.9 8.3
B =	4	duct width (metres) normal to
36.8	19.2	24.8 28.9 33.4

Barrier Loss Calc'n		Ref: Vertical Weather Conditions
Distances		Reference Heights
Source to Barrier	17	Source 81.8
Barrier to Recep	16	Receptor 83.7
Eff wall Height	1.2	Barrier Base 84.0
Screen Wall Loss =	5.6	6.1 7.0 8.5
B =	4	duct width (metres) normal to
32.9	16.1	21.6 25.6 30.1
84.2	61.5	67.5 72.6 78.6
	63	125 250 500
44.7	27.6	33.1 37.3 41.8
Excess Noise Computation		
40.0	67.1	56.8 49.2 43.8

7460-1 Appendix D11

Outdoor Noise Propagation Computation (Propout.xls)
Version

DAY DESIGN PTY LTD
Engineer: SG/BL
Project no: 7460-1
Date:

Client ..... Boskovitz Lawyers
Project Title. ..... 26 Beattie Ave, Denistone East
Operation ..... Outdoor Play

Atmosphere:
Temp 20
RH% 80

Receptor Location..... 27 Beattie Ave, Denistone East
Noise Criterion ..... 45 dBA at residence any time
Predicted Lp at Receptor = 26 dBA

	dBA	63	125	250	500
	78	54	60	66	72
	85	61	67	73	79
	87	64	70	75	81

	Description	Comments	Input		Noise Levels - dB							
1.				dBA	63	125	250	500	1000	2000	4000	8000
	0-2	Barrier:	facade		54	60	66	72	74	71	67	64
	Sound Power Level...		Leq	68	44	50	56	62	64	61	57	54
	Energy Distribution	Q	2		0	0	0	0	0	0	0	0
	Multiple Units	Number	5		7	7	7	7	7	7	7	7
	Distance Loss	Dist (m)	45		41	41	41	41	41	41	41	41
	True Height of Barrier	Actual (m)	5.7	4.8	12	15	18	21	24	24	24	24
	Lp Contribution at Receptor:			10	0	1	4	7	6	3	0	0

Barrier Loss Calc'n — For Neutral Weather Conditions

Distances		Reference Heights			
Source to Barrier	5	Source			81.8
Barrier to Recep	40	Receptor			81.5
Eff wall Height	4.8	Barrier Base			80.9
Screen Wall Loss =	12.3	15.2	18.2	21.2	
B =	4	duct width (metres)			normal t
10.0	-2.4	0.8	3.8	5.8	

	Description	Comments	Input		Noise Levels - dB							
2				dBA	63	125	250	500	1000	2000	4000	8000
	2-3	Barrier:	facade		61	67	73	79	81	78	74	70
	Sound Power Level...		Leq	75	51	57	63	69	71	68	64	60
	Energy Distribution	Q	2		0	0	0	0	0	0	0	0
	Multiple Units	Number	10		10	10	10	10	10	10	10	10
	Distance Loss	Dist (m)	52		42	42	42	42	42	42	42	42
	True Height of Barrier	Actual (m)	5.7	4.8	13	16	19	22	24	24	24	24
	Lp Contribution at Receptor:			18	5	8	11	14	15	11	7	1

Barrier Loss Calc'n — For Neutral Weather Conditions

Distances		Reference Heights			
Source to Barrier	3	Source			81.8
Barrier to Recep	49	Receptor			81.5
Eff wall Height	4.8	Barrier Base			80.9
Screen Wall Loss =	13.4	16.3	19.3	22.3	
B =	4	duct width (metres)			normal t
18.4	5.3	8.4	11.4	14.4	

	Description	Comments	Input		Noise Levels - dB							
3				dBA	63	125	250	500	1000	2000	4000	8000
	3-5	Barrier:	facade		64	70	75	81	83	80	76	72
	Sound Power Level...		Leq	77	54	60	65	71	73	70	66	62
	Energy Distribution	Q	2		0	0	0	0	0	0	0	0
	Multiple Units	Number	4		6	6	6	6	6	6	6	6
	Distance Loss	Dist (m)	60		44	44	44	44	44	44	44	44
	True Height of Barrier	Actual (m)	5.7	4.7	10	13	15	18	21	24	24	24
	Lp Contribution at Receptor:			17	6	10	12	15	14	8	4	0

Barrier Loss Calc'n — For Neutral Weather Conditions

Distances		Reference Heights			
Source to Barrier	11	Source			82.0
Barrier to Recep	49	Receptor			81.5
Eff wall Height	4.7	Barrier Base			80.9
Screen Wall Loss =	10.0	12.5	15.4	18.4	
B =	4	duct width (metres)			normal t
17.4	6.4	8.9	12.1	15.1	

	Description	Comments	Input		Noise Levels - dB							
4				dBA	63	125	250	500	1000	2000	4000	8000
	3-5	Barrier:	facade		64	70	75	81	83	80	76	72
	Sound Power Level...		Leq	77	54	60	65	71	73	70	66	62
	Energy Distribution	Q	2		0	0	0	0	0	0	0	0
	Multiple Units	Number	4		6	6	6	6	6	6	6	6
	Distance Loss	Dist (m)	68		45	45	45	45	45	45	45	45
	True Height of Barrier	Actual (m)	5.7	4.0	8	10	12	15	18	21	24	24
	Lp Contribution at Receptor:			19	7	11	14	17	16	10	2	0

Barrier Loss Calc'n — For Neutral Weather Conditions

Distances		Reference Heights			
Source to Barrier	19	Source			83.0
Barrier to Recep	49	Receptor			81.5
Eff wall Height	4.0	Barrier Base			80.9
Screen Wall Loss =	8.0	9.9	12.5	15.3	
B =	4	duct width (metres)			normal t
19.2	7.4	11.4	13.9	17.0	

90 87

	Description	Comments	Input		Noise Levels - dB							
5				dBA	63	125	250	500	1000	2000	4000	8000
	3-5	Barrier:	facade		64	70	75	81	83	80	76	72
	Sound Power Level...		Leq	77	54	60	65	71	73	70	66	62
	Energy Distribution	Q	2		0	0	0	0	0	0	0	0
	Multiple Units	Number	4		6	6	6	6	6	6	6	6
	Distance Loss	Dist (m)	68		45	45	45	45	45	45	45	45
	True Height of Barrier	Actual (m)	5.7	4.0	8	10	12	15	18	21	24	24
	Lp Contribution at Receptor:			19	7	11	14	17	16	10	2	0

Barrier Loss Calc'n — For Neutral Weather Conditions

Distances		Reference Heights			
Source to Barrier	19	Source			83.0
Barrier to Recep	49	Receptor			81.5
Eff wall Height	4.0	Barrier Base			80.9
Screen Wall Loss =	8.0	9.9	12.5	15.3	
B =	4	duct width (metres)			normal t
19.2	7.4	11.4	13.9	17.0	

	Description	Comments	Input		Noise Levels - dB							
6				dBA	63	125	250	500	1000	2000	4000	8000
	3-5	Barrier:	facade		64	70	75	81	83	80	76	72
	Sound Power Level...		Leq	77	54	60	65	71	73	70	66	62
	Energy Distribution	Q	2		0	0	0	0	0	0	0	0
	Multiple Units	Number	4		6	6	6	6	6	6	6	6
	Distance Loss	Dist (m)	58		43	43	43	43	43	43	43	43
	True Height of Barrier	Actual (m)	5.7	4.7	10	13	16	19	22	24	24	24
	Lp Contribution at Receptor:			17	6	10	12	15	14	9	4	0

Barrier Loss Calc'n — For Neutral Weather Conditions

Distances		Reference Heights			
Source to Barrier	9	Source			82.0
Barrier to Recep	49	Receptor			81.5
Eff wall Height	4.7	Barrier Base			80.9
Screen Wall Loss =	10.5	13.1	16.0	19.0	
B =	4	duct width (metres)			normal t
17.2	6.3	9.7	11.8	14.8	

	Description	Comments	Input		Noise Levels - dB							
7				dBA	63	125	250	500	1000	2000	4000	8000
	3-5	Barrier:	facade		64	70	75	81	83	80	76	72
	Sound Power Level...		Leq	77	54	60	65	71	73	70	66	62
	Energy Distribution	Q	2		0	0	0	0	0	0	0	0
	Multiple Units	Number	4		6	6	6	6	6	6	6	6
	Distance Loss	Dist (m)	48		42	42	42	42	42	42	42	42
	True Height of Barrier	Actual (m)	5.7	4.9	11	14	16	19	22	24	24	24
	Lp Contribution at Receptor:			19	8	11	13	16	15	10	5	0
	Total Sound Power Level			84	61	67	73	79	81	78	74	70
				dBA	63	125	250	500	1000	2000	4000	8000
	Total Lp at Receptor			26	15	18	21	24	23	18	13	10
	A" Weighted Lp				-11	2	12	21	23	19	14	9
	Noise Criterion			45	67	57	49	44	40	37	36	33

Barrier Loss Calc'n — For Neutral Weather Conditions

Distances		Reference Heights			
Source to Barrier	9	Source			81.8
Barrier to Recep	39	Receptor			81.5
Eff wall Height	4.8	Barrier Base			80.9
Screen Wall Loss =	10.9	13.5	16.5	19.5	
B =	4	duct width (metres)			normal t
18.5	7.5	10.9	12.9	15.9	

84.2	61.5	67.5	72.6	78.6
	63	125	250	500
26.5	15.1	18.5	20.8	23.8
Excess Noise Computation				
40.0	67.1	56.8	49.2	43.8

ROOM NOISE EMISSION COMPUTATION (ROOMOUT.XLS) Version 7.00

DAY DESIGN PTY LTD
Engineer: SG/BL
Project No: 7460-1
Date: 5-May-2022
Atmosphere:
RH% 90.0

Client . . . . . Boskovitz Lawyers
Project Title. . . . . 26 Beattie Ave, Denistone East
Room Description . . . . Indoor_1
Receptor Location. . . . R1A
Noise Criterion . . . . . 39 dBA

Lw of NOISE SOURCES INSIDE ROOM	Number	Duration	dBA	63	125	250	500	1000	2000	4000	8000
				NOISE LEVELS - dB (re: 1 picowatt)							
1. 0-2	5	900	75	51	57	63	69	71	68	64	61
2. 2-3	0	900	0	0	0	0	0	0	0	0	0
3. 3-5	0	900	0	0	0	0	0	0	0	0	0
TOTAL Lw IN ROOM =	5.0		75	51	57	63	69	71	68	64	61

ROOM ABSORPTION, Length = 7.2 Width= 4.0 m, Height = 2.8 metres = 81 m^3
Total Surface Area = 120 Square Metres

20.1				Ave Absorption Co-efficients							
Ave Absorption Coefficicent =	BEDROOM with pb ceiling, brick walls/cement render and carpet floor			63	125	250	500	1000	2000	4000	8000
				0.08	0.08	0.09	0.10	0.12	0.15	0.11	0.15
Absorption =				10	10	11	12	14	18	13	18
Lw to Lp Correction =			dBA	-4.2	-4.2	-4.7	-4.8	-5.6	-6.5	-5.2	-6.5
Reverberant Lp Inside Room =			69	47	53	58	64	65	61	59	54
Barrier 1.				Octave Band Centre Frequencies - Hz							
0.00	Open Window/Door										
Doors (NW) Sl			dBA	63	125	250	500	1000	2000	4000	8000
	Direct Lp Inside Barrier	Input	60.6	37	43	49	55	57	54	50	47
	Comb'd Lp Inside Barrier		69.5	47	53	59	65	66	62	59	55
No: Dist.	Trial Combined Lw Inside Barrier		49.5	27	33	39	45	46	42	39	35
1. 2	Effective Reverb Lp Inside Barrier		69.5	47	53	59	65	66	62	59	55
2. 0	Barrier Sound Trans. Loss	Rw = 0		0	0	0	0	0	0	0	0
3. 0	Area of Barrier, m^2 =	0									
4. 0	Lw Outside Barrier		45.3	23	29	34	40	42	38	35	31
7.	No. of Same Barrier Paths =	1		0	0	0	0	0	0	0	0
8.	Distance Loss Distance (m) =	13		30	30	30	30	30	30	30	30
	Screen Wall Loss (eff. H=)	0.9		6	7	8	10	12	15	18	21
	Lp Contribution at Receptor =		0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
	(A weighted level =)			-26.2	-16.1	-8.6	-3.2	0.0	1.2	1.0	-1.1
Barrier 2.				Octave Band Centre Frequencies - Hz							
12.01	Aluminium sliding window, 3 mm glass, mohair seals										
Windows (SW)			dBA	63	125	250	500	1000	2000	4000	8000
Dist Source to	Direct Lp Inside Barrier		60.6	37	43	49	55	57	54	50	47
Barrier	Comb'd Lp Inside Barrier		69.5	47	53	59	65	66	62	59	55
No: Dist.	Trial Combined Lw Inside Barrier		71.1	49	55	60	66	68	64	61	57
1. 2	Effective Reverb Lp Inside Barrier		69.5	47	53	59	65	66	62	59	55
2. 0	Barrier Sound Trans. Loss	Rw = 24		13	15	20	21	22	26	25	25
3. 0	Area of Barrier, m^2 =	1									
4. 0	Lw Outside Barrier		43.8	31	35	36	40	41	34	31	28
7.	No. of Same Barrier Paths =	1		0	0	0	0	0	0	0	0
8.	Distance (Loss) metre =	13		30	30	30	30	30	30	30	30
	Screen Wall Loss (eff. H=)	0.6		5	6	6	7	9	11	14	16
	Lp Contribution at Receptor =		3.3	-5.9	-2.1	-2.4	1.6	0.6	-8.5	-14.2	-21.1
	(A weighted level =)			-32.1	-18.2	-11.0	-1.6	0.6	-7.3	-13.2	-22.2
Barrier 3.				Octave Band Centre Frequencies - Hz							
15.01	Wintec aluminium awning window, 4 mm glass, Q lon seals										
Skylight			dBA	63	125	250	500	1000	2000	4000	8000
Dist Source to	Direct Lp Inside Barrier		60.6	37	43	49	55	57	54	50	47
Barrier	Comb'd Lp Inside Barrier		69.5	47	53	59	65	66	62	59	55
No: Dist.	Trial Combined Lw Inside Barrier		71.1	49	55	60	66	68	64	61	57
1. 2	Effective Reverb Lp Inside Barrier		69.5	47	53	59	65	66	62	59	55
2. 0	Barrier Sound Trans. Loss	Rw = 27		20	18	21	26	26	29	28	35
3. 0	Area of Barrier, m^2 =	1.4									
4. 0	Lw Outside Barrier		39.9	24	32	34	36	37	31	29	18
7.	No. of Same Barrier Paths =	1		0	0	0	0	0	0	0	0
8.	Distance (Loss) metre =	13		30	30	30	30	30	30	30	30
	Screen Wall Loss (eff. H=)	0.2		5	5	5	5	6	6	7	9
	Lp Contribution at Receptor =		0.9	-14.1	-6.1	-4.1	-2.4	-1.9	-8.9	-12.0	-24.8
Total Noise Level Contribution at Receptor =			16	9.2	9.5	9.5	10.0	9.9	9.2	9.1	9.0
	(A weighted level =)			-17.0	-6.6	0.9	6.8	9.9	10.4	10.1	7.9
	Noise Level Criterion =		39	dBA							

ROOM NOISE EMISSION COMPUTATION (ROOMOUT.XLS) Version 7.00

DAY DESIGN PTY LTD
Engineer: SG/BL
Project No: 7460-1
Date: 5-May-2022
Atmospheres:
RH% 90.0

Client . . . . . Boskovitz Lawyers
Project Title. . . . . 26 Beattie Ave, Denistone East
Room Description . . . . Indoor_1
Receptor Location. . . . R1B
Noise Criterion . . . . . 39 dBA

Lw of NOISE SOURCES INSIDE ROOM	Number	Duration	dBA	63	125	250	500	1000	2000	4000	8000
				NOISE LEVELS - dB (re: 1 picowatt)							
1. 0-2	5	900	75	51	57	63	69	71	68	64	61
2. 2-3	0	900	0	0	0	0	0	0	0	0	0
3. 3-5	0	900	0	0	0	0	0	0	0	0	0
TOTAL Lw IN ROOM =	5.0		75	51	57	63	69	71	68	64	61

ROOM ABSORPTION, Length = 7.2 Width= 4.0 m, Height = 2.8 metres = 81 m^3
Total Surface Area = 120 Square Metres

20.1				Ave Absorption Co=efficients							
Ave Absorption Coefficicent =	BEDROOM with pb ceiling, brick walls/cement render and carpet floor			63	125	250	500	1000	2000	4000	8000
				0.08	0.08	0.09	0.10	0.12	0.15	0.11	0.15
Absorption =				10	10	11	12	14	18	13	18
Reverberant Lp Inside Room =			69	47	53	58	64	65	61	59	54
Barrier 1. 0.00 Doors (NW) SI	Open Window/Door			Octave Band Centre Frequencies - Hz							
			dBA	63	125	250	500	1000	2000	4000	8000
	Direct Lp Inside Barrier	Input	60.6	37	43	49	55	57	54	50	47
	Comb'd Lp Inside Barrier		69.5	47	53	59	65	66	62	59	55
No: Dist.	Trial Combined Lw Inside Barrier		73.3	51	57	63	68	70	66	63	59
1. 2	Effective Reverb Lp Inside Barrier		69.5	47	53	59	65	66	62	59	55
2. 0	Barrier Sound Trans. Loss	Rw =	0	0	0	0	0	0	0	0	0
3. 0	Area of Barrier, m^2 =	2									
4. 0	Lw Outside Barrier		69.1	46	52	58	64	66	62	59	55
7.	No. of Same Barrier Paths =	1		0	0	0	0	0	0	0	0
8.	Distance Loss Distance (m) =	6		24	24	24	24	24	24	24	24
	Screen Wall Loss (eff. H=)	0.5		5	6	7	8	10	12	15	18
	Lp Contribution at Receptor =		24.0	6.4	11.9	16.8	21.5	21.1	15.0	8.8	1.8
	(A weighted level =)			-19.8	-4.2	8.2	18.3	21.1	16.2	9.8	0.7
Barrier 2. 12.01 Windows (SW)	Aluminium sliding window, 3 mm glass, mohair seals			Octave Band Centre Frequencies - Hz							
			dBA	63	125	250	500	1000	2000	4000	8000
Dist Source to Barrier	Direct Lp Inside Barrier		60.6	37	43	49	55	57	54	50	47
	Comb'd Lp Inside Barrier		69.5	47	53	59	65	66	62	59	55
No: Dist.	Trial Combined Lw Inside Barrier		71.1	49	55	60	66	68	64	61	57
1. 2	Effective Reverb Lp Inside Barrier		69.5	47	53	59	65	66	62	59	55
2. 0	Barrier Sound Trans. Loss	Rw =	24	13	15	20	21	22	26	25	25
3. 0	Area of Barrier, m^2 =	1									
4. 0	Lw Outside Barrier		43.8	31	35	36	40	41	34	31	28
7.	No. of Same Barrier Paths =	1		0	0	0	0	0	0	0	0
8.	Distance (Loss) metre =	6		24	24	24	24	24	24	24	24
	Screen Wall Loss (eff. H=)	0.1		5	5	5	5	5	5	6	6
	Lp Contribution at Receptor =		13.6	1.1	5.2	5.4	10.3	10.8	3.8	0.6	-3.6
	(A weighted level =)			-25.1	-10.9	-3.2	7.1	10.8	5.0	1.6	-4.7
Barrier 3. 15.01 Skylight	Wintec aluminium awning window, 4 mm glass, Q lon seals			Octave Band Centre Frequencies - Hz							
			dBA	63	125	250	500	1000	2000	4000	8000
Dist Source to Barrier	Direct Lp Inside Barrier		60.6	37	43	49	55	57	54	50	47
	Comb'd Lp Inside Barrier		69.5	47	53	59	65	66	62	59	55
No: Dist.	Trial Combined Lw Inside Barrier		71.1	49	55	60	66	68	64	61	57
1. 2	Effective Reverb Lp Inside Barrier		69.5	47	53	59	65	66	62	59	55
2. 0	Barrier Sound Trans. Loss	Rw =	27	20	18	21	26	26	29	28	35
3. 0	Area of Barrier, m^2 =	1.4									
4. 0	Lw Outside Barrier		39.9	24	32	34	36	37	31	29	18
7.	No. of Same Barrier Paths =	1		0	0	0	0	0	0	0	0
8.	Distance (Loss) metre =	7		25	25	25	25	25	25	25	25
	Screen Wall Loss (eff. H=)	-0.3		5	5	4	4	3	1	0	0
	Lp Contribution at Receptor =		4.5	-13.5	-5.4	-2.9	-0.7	1.1	-3.9	-4.5	-15.5
	(A weighted level =)			-39.7	-21.5	-11.5	-3.9	1.1	-2.7	-3.5	-16.6
ADD OUTSIDE Lp CONTRIBUTIONS			dBA	63	125	250	500	1000	2000	4000	8000
Total Lp Contribution from ROOM =			25	9	13	17	22	22	16	10	6
(A weighted level =)				-15.2	-1.9	9.1	18.8	21.7	17.4	13.1	8.4
Noise Level Criterion =			39	dBA							

ROOM NOISE EMISSION COMPUTATION (ROOMOUT.XLS) Version 7.00

DAY DESIGN PTY LTD
Engineer: SG/BL
Project No: 7460-1
Date: 5-May-2022
Atmosphere:
RH% 90.0

Client . . . . . Boskovitz Lawyers
Project Title. . . . . 26 Beattie Ave, Denistone East
Room Description . . . . Indoor_1
Receptor Location. . . . R1C
Noise Criterion . . . . . 39 dBA

Lw of NOISE SOURCES INSIDE ROOM	Number	Duration	dBA	63	125	250	500	1000	2000	4000	8000
				NOISE LEVELS - dB (re: 1 picowatt)							
1. 0-2	5	900	75	51	57	63	69	71	68	64	61
2. 2-3	0	900	0	0	0	0	0	0	0	0	0
3. 3-5	0	900	0	0	0	0	0	0	0	0	0
TOTAL Lw IN ROOM =	5.0		75	51	57	63	69	71	68	64	61

ROOM ABSORPTION, Length = 7.2 Width= 4.0 m, Height = 2.8 metres = 81 m^3
Total Surface Area = 120 Square Metres

20.1				Ave Absorption Co-efficients							
Ave Absorption Coefficicent =	BEDROOM with pb ceiling, brick walls/cement render and carpet floor			63	125	250	500	1000	2000	4000	8000
	Absorption =			0.08	0.08	0.09	0.10	0.12	0.15	0.11	0.15
	Reverberant Lp Inside Room =		69	10	10	11	12	14	18	13	18
				47	53	58	64	65	61	59	54

Barrier 1. 0.00 Doors (NW) SI	Open Window/Door		dBA	Octave Band Centre Frequencies - Hz 63	125	250	500	1000	2000	4000	8000
	Direct Lp Inside Barrier	Input	60.6	37	43	49	55	57	54	50	47
	Comb'd Lp Inside Barrier		69.5	47	53	59	65	66	62	59	55
No: Dist.	Trial Combined Lw Inside Barrier		73.3	51	57	63	68	70	66	63	59
1. 2	Effective Reverb Lp Inside Barrier		69.5	47	53	59	65	66	62	59	55
2. 0	Barrier Sound Trans. Loss	Rw =	0	0	0	0	0	0	0	0	0
3. 0	Area of Barrier, m^2 =	2									
4. 0	Lw Outside Barrier		69.1	46	52	58	64	66	62	59	55
7.	No. of Same Barrier Paths =	1		0	0	0	0	0	0	0	0
8.	Distance Loss Distance (m) =	13		30	30	30	30	30	30	30	30
	Screen Wall Loss (eff. H=)	1.1		6	7	8	10	13	16	19	22
	Lp Contribution at Receptor =		20.8	5.6	10.7	14.9	18.8	17.7	11.2	4.8	-2.4
	(A weighted level =)			-20.6	-5.4	6.3	15.6	17.7	12.4	5.8	-3.5

Barrier 2. 12.01 Windows (SW)	Aluminium sliding window, 3 mm glass, mohair seals		dBA	Octave Band Centre Frequencies - Hz 63	125	250	500	1000	2000	4000	8000
Dist Source to Barrier	Direct Lp Inside Barrier		60.6	37	43	49	55	57	54	50	47
	Comb'd Lp Inside Barrier		69.5	47	53	59	65	66	62	59	55
No: Dist.	Trial Combined Lw Inside Barrier		71.1	49	55	60	66	68	64	61	57
1. 2	Effective Reverb Lp Inside Barrier		69.5	47	53	59	65	66	62	59	55
2. 0	Barrier Sound Trans. Loss	Rw =	24	13	15	20	21	22	26	25	25
3. 0	Area of Barrier, m^2 =	1									
4. 0	Lw Outside Barrier		43.8	31	35	36	40	41	34	31	28
7.	No. of Same Barrier Paths =	1		0	0	0	0	0	0	0	0
8.	Distance (Loss) metre =	13		30	30	30	30	30	30	30	30
	Screen Wall Loss (eff. H=)	0.6		5	6	6	7	9	12	14	17
	Lp Contribution at Receptor =		2.9	-5.9	-2.2	-2.6	1.2	0.0	-9.2	-14.9	-21.9
	(A weighted level =)			-32.1	-18.3	-11.2	-2.0	0.0	-8.0	-13.9	-23.0

Barrier 3. 15.01 Skylight	Wintec aluminium awning window, 4 mm glass, Q lon seals		dBA	Octave Band Centre Frequencies - Hz 63	125	250	500	1000	2000	4000	8000
Dist Source to Barrier	Direct Lp Inside Barrier		60.6	37	43	49	55	57	54	50	47
	Comb'd Lp Inside Barrier		69.5	47	53	59	65	66	62	59	55
No: Dist.	Trial Combined Lw Inside Barrier		71.1	49	55	60	66	68	64	61	57
1. 2	Effective Reverb Lp Inside Barrier		69.5	47	53	59	65	66	62	59	55
2. 0	Barrier Sound Trans. Loss	Rw =	27	20	18	21	26	26	29	28	35
3. 0	Area of Barrier, m^2 =	1.4									
4. 0	Lw Outside Barrier		39.9	24	32	34	36	37	31	29	18
7.	No. of Same Barrier Paths =	1		0	0	0	0	0	0	0	0
8.	Distance (Loss) metre =	14		31	31	31	31	31	31	31	31
	Screen Wall Loss (eff. H=)	-0.5		5	4	4	3	2	0	0	0
	Lp Contribution at Receptor =		-0.5	-19.4	-11.1	-8.5	-5.8	-3.5	-8.4	-10.6	-21.9
	(A weighted level =)			-45.6	-27.2	-17.1	-9.0	-3.5	-7.2	-9.6	-23.0

ADD OUTSIDE Lp CONTRIBUTIONS	dBA	63	125	250	500	1000	2000	4000	8000
Total Lp Contribution from ROOM =	21	8	12	15	19	18	12	7	4
(A weighted level =)		-15.8	-3.2	7.3	16.1	18.3	14.3	11.1	7.7
Noise Level Criterion =	39	dBA							

ROOM NOISE EMISSION COMPUTATION (ROOMOUT.XLS) Version 7.00

DAY DESIGN PTY LTD
Engineer: SG/BL
Project No: 7460-1
Date: 5-May-2022
Atmosphere:
RH% 90.0

Client ..... Boskovitz Lawyers
Project Title..... 26 Beattie Ave, Denistone East
Room Description .... Indoor_1
Receptor Location.... R1D
Noise Criterion ..... 39 dBA

Lw of NOISE SOURCES INSIDE ROOM	Number	Duration	dBA	NOISE LEVELS - dB (re: 1 picowatt) 63	125	250	500	1000	2000	4000	8000
1. 0-2	5	900	75	51	57	63	69	71	68	64	61
2. 2-3	0	900	0	0	0	0	0	0	0	0	0
3. 3-5	0	900	0	0	0	0	0	0	0	0	0
TOTAL Lw IN ROOM =	5.0		75	51	57	63	69	71	68	64	61

ROOM ABSORPTION, Leagth = 7.2 Width= 4.0 m, Height = 2.8 metres = 81 m^3
Total Surface Area = 120 Square Metres

20.1				Ave Absorption Co=efficients 63	125	250	500	1000	2000	4000	8000
Ave Absorption Coefficicent =	BEDROOM with pb ceiling, brick walls/cement render and carpet floor			0.08	0.08	0.09	0.10	0.12	0.15	0.11	0.15
	Absorption =			10	10	11	12	14	18	13	18
	Reverberant Lp Inside Room =		69	47	53	58	64	65	61	59	54

Barrier 1. 0.00 Doors (NW) Sl	Open Window/Door			Octave Band Centre Frequencies - Hz 63	125	250	500	1000	2000	4000	8000
			dBA								
	Direct Lp Inside Barrier	Input	60.6	37	43	49	55	57	54	50	47
	Comb'd Lp Inside Barrier		69.5	47	53	59	65	66	62	59	55
No: Dist.	Trial Combined Lw Inside Barrier		73.3	51	57	63	68	70	66	63	59
1. 2	Effective Reverb Lp Inside Barrier		69.5	47	53	59	65	66	62	59	55
2. 0	Barrier Sound Trans. Loss	Rw =	0	0	0	0	0	0	0	0	0
3. 0	Area of Barrier, m^2 =	2									
4. 0	Lw Outside Barrier		69.1	46	52	58	64	66	62	59	55
7.	No. of Same Barrier Paths =	1		0	0	0	0	0	0	0	0
8.	Distance Loss Distance (m) =	27		37	37	37	37	37	37	37	37
	Screen Wall Loss (eff. H=)	1.4		6	7	8	10	12	15	18	21
	Lp Contribution at Receptor =		15.2	-0.6	4.6	9.0	13.1	12.1	5.6	-0.9	-8.7
	(A weighted level =)			-26.8	-11.5	0.4	9.9	12.1	6.8	0.1	-9.8

Barrier 2. 12.01 Windows (SW	Aluminium sliding window, 3 mm glass, mohair seals			Octave Band Centre Frequencies - Hz 63	125	250	500	1000	2000	4000	8000
			dBA								
Dist Source to Barrier	Direct Lp Inside Barrier		60.6	37	43	49	55	57	54	50	47
	Comb'd Lp Inside Barrier		69.5	47	53	59	65	66	62	59	55
No: Dist.	Trial Combined Lw Inside Barrier		71.1	49	55	60	66	68	64	61	57
1. 2	Effective Reverb Lp Inside Barrier		69.5	47	53	59	65	66	62	59	55
2. 0	Barrier Sound Trans. Loss	Rw =	24	13	15	20	21	22	26	25	25
3. 0	Area of Barrier, m^2 =	1									
4. 0	Lw Outside Barrier		43.8	31	35	36	40	41	34	31	28
7.	No. of Same Barrier Paths =	1		0	0	0	0	0	0	0	0
8.	Distance (Loss) metre =	27		37	37	37	37	37	37	37	37
	Screen Wall Loss (eff. H=)	1.0		5	6	7	8	10	13	15	18
	Lp Contribution at Receptor =		-10.7	-18.9	-15.2	-15.8	-12.2	-13.7	-23.1	-29.1	-36.7
	(A weighted level =)			-45.1	-31.3	-24.4	-15.4	-13.7	-21.9	-28.1	-37.8

Barrier 3. 15.01 Skylight	Wintec aluminium awning window, 4 mm glass, Q lon seals			Octave Band Centre Frequencies - Hz 63	125	250	500	1000	2000	4000	8000
			dBA								
Dist Source to Barrier	Direct Lp Inside Barrier		60.6	37	43	49	55	57	54	50	47
	Comb'd Lp Inside Barrier		69.5	47	53	59	65	66	62	59	55
No: Dist.	Trial Combined Lw Inside Barrier		71.1	49	55	60	66	68	64	61	57
1. 2	Effective Reverb Lp Inside Barrier		69.5	47	53	59	65	66	62	59	55
2. 0	Barrier Sound Trans. Loss	Rw =	27	20	18	21	26	26	29	28	35
3. 0	Area of Barrier, m^2 =	1.4									
4. 0	Lw Outside Barrier		39.9	24	32	34	36	37	31	29	18
7.	No. of Same Barrier Paths =	1		0	0	0	0	0	0	0	0
8.	Distance (Loss) metre =	28		37	37	37	37	37	37	37	37
	Screen Wall Loss (eff. H=)	-0.4		5	5	5	4	4	3	1	0
	Lp Contribution at Receptor =		-8.5	-25.6	-17.5	-15.2	-13.2	-11.8	-17.3	-18.0	-28.6
	(A weighted level =)			-51.8	-33.6	-23.8	-16.4	-11.8	-16.1	-17.0	-29.7

ADD OUTSIDE Lp CONTRIBUTIONS		dBA	63	125	250	500	1000	2000	4000	8000
Total Lp Contribution from ROOM =		16	5	7	10	14	13	8	5	3
	(A weighted level =)		-17.2	-6.1	3.2	11.2	13.7	11.5	9.9	7.4
	Noise Level Criterion =	39	dBA							

ROOM NOISE EMISSION COMPUTATION (ROOMOUT.XLS) Version 7.00

DAY DESIGN PTY LTD
Engineer: SG/BL
Project No: 7460-1
Date: 5-May-2022
Atmosphere:
RH% 90.0

Client . . . . . Boskovitz Lawyers
Project Title. . . . . 26 Beattie Ave, Denistone East
Room Description . . . . Indoor_1
Receptor Location. . . . R2B
Noise Criterion . . . . . 39 dBA

Lw of NOISE SOURCES INSIDE ROOM	Number	Duration	dBA	63	125	250	500	1000	2000	4000	8000
				NOISE LEVELS - dB (re: 1 picowatt)							
1. 0-2	5	900	75	51	57	63	69	71	68	64	61
2. 2-3	0	900	0	0	0	0	0	0	0	0	0
3. 3-5	0	900	0	0	0	0	0	0	0	0	0
TOTAL Lw IN ROOM =	5.0		75	51	57	63	69	71	68	64	61

ROOM ABSORPTION, Length = 7.2 Width= 4.0 m, Height = 2.8 metres = 81 m^3
Total Surface Area = 120 Square Metres

20.1				63	125	250	500	1000	2000	4000	8000
Ave Absorption Coefficicent =	BEDROOM with pb ceiling, brick walls/cement render and carpet floor			Ave Absorption Co-efficients							
	Absorption =			0.08	0.08	0.09	0.10	0.12	0.15	0.11	0.15
	Reverberant Lp Inside Room =		69	10	10	11	12	14	18	13	18
				47	53	58	64	65	61	59	54
Barrier 1.				Octave Band Centre Frequencies - Hz							
0.00	Open Window/Door										
Doors (NW) SI			dBA	63	125	250	500	1000	2000	4000	8000
	Direct Lp Inside Barrier	Input	60.6	37	43	49	55	57	54	50	47
	Comb'd Lp Inside Barrier		69.5	47	53	59	65	66	62	59	55
No: Dist.	Trial Combined Lw Inside Barrier		73.3	51	57	63	68	70	66	63	59
1. 2	Effective Reverb Lp Inside Barrier		69.5	47	53	59	65	66	62	59	55
2. 0	Barrier Sound Trans. Loss	Rw = 0		0	0	0	0	0	0	0	0
3. 0	Area of Barrier, m^2 =	2									
4. 0	Lw Outside Barrier		69.1	46	52	58	64	66	62	59	55
7.	No. of Same Barrier Paths =	1		0	0	0	0	0	0	0	0
8.	Distance Loss Distance (m) =	13		30	30	30	30	30	30	30	30
	Screen Wall Loss (eff. H=)	0.5		6	7	8	10	13	15	18	21
	Lp Contribution at Receptor =		14.9	-0.8	4.4	8.8	12.8	11.7	5.3	-1.1	-8.4
	(A weighted level =)			-27.0	-11.7	0.2	9.6	11.7	6.5	-0.1	-9.5
Barrier 2.				Octave Band Centre Frequencies - Hz							
12.01	Aluminium sliding window, 3 mm glass, mohair seals										
Windows (SW)			dBA	63	125	250	500	1000	2000	4000	8000
Dist Source to Barrier	Direct Lp Inside Barrier		60.6	37	43	49	55	57	54	50	47
	Comb'd Lp Inside Barrier		69.5	47	53	59	65	66	62	59	55
No: Dist.	Trial Combined Lw Inside Barrier		49.5	27	33	39	45	46	42	39	35
1. 2	Effective Reverb Lp Inside Barrier		69.5	47	53	59	65	66	62	59	55
2. 0	Barrier Sound Trans. Loss	Rw = 24		13	15	20	21	22	26	25	25
3. 0	Area of Barrier, m^2 =	0									
4. 0	Lw Outside Barrier		22.2	10	14	14	19	19	13	10	6
7.	No. of Same Barrier Paths =	1		0	0	0	0	0	0	0	0
8.	Distance (Loss) metre =	13		30	30	30	30	30	30	30	30
	Screen Wall Loss (eff. H=)	0.5		6	6	7	9	11	14	17	20
	Lp Contribution at Receptor =		0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
	(A weighted level =)			-26.2	-16.1	-8.6	-3.2	0.0	1.2	1.0	-1.1
Barrier 3.				Octave Band Centre Frequencies - Hz							
15.01	Wintec aluminium awning window, 4 mm glass, Q lon seals										
Skylight			dBA	63	125	250	500	1000	2000	4000	8000
Dist Source to Barrier	Direct Lp Inside Barrier		60.6	37	43	49	55	57	54	50	47
	Comb'd Lp Inside Barrier		69.5	47	53	59	65	66	62	59	55
No: Dist.	Trial Combined Lw Inside Barrier		49.5	27	33	39	45	46	42	39	35
1. 2	Effective Reverb Lp Inside Barrier		69.5	47	53	59	65	66	62	59	55
2. 0	Barrier Sound Trans. Loss	Rw = 27		20	18	21	26	26	29	28	35
3. 0	Area of Barrier, m^2 =	0.0									
4. 0	Lw Outside Barrier		18.4	3	11	13	15	15	9	7	-4
7.	No. of Same Barrier Paths =	1		0	0	0	0	0	0	0	0
8.	Distance (Loss) metre =	13		30	30	30	30	30	30	30	30
	Screen Wall Loss (eff. H=)	0.1		5	5	5	5	5	5	5	6
	Lp Contribution at Receptor =		0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
	(A weighted level =)			-26.2	-16.1	-8.6	-3.2	0.0	1.2	1.0	-1.1
ADD OUTSIDE Lp CONTRIBUTIONS			dBA	63	125	250	500	1000	2000	4000	8000
Total Lp Contribution from ROOM =			17	7	8	11	14	13	9	7	6
	(A weighted level =)			-16.3	-5.4	3.6	11.3	13.8	12.1	10.9	8.5
	Noise Level Criterion =		39	dBA							

ROOM NOISE EMISSION COMPUTATION (ROOMOUT.XLS) Version 7.00

DAY DESIGN PTY LTD
Engineer: SG/BL
Project No: 7460-1
Date: 5-May-2022
Atmosphere:
RH% 90.0

Client . . . . . Boskovitz Lawyers
Project Title. . . . . 26 Beattie Ave, Denistone East
Room Description . . . . Indoor_1
Receptor Location. . . . R2C
Noise Criterion . . . . . 39 dBA

Lw of NOISE SOURCES INSIDE ROOM	Number	Duration	dBA	NOISE LEVELS - dB (re: 1 picowatt) 63	125	250	500	1000	2000	4000	8000
1. 0-2	5	900	75	51	57	63	69	71	68	64	61
2. 2-3	0	900	0	0	0	0	0	0	0	0	0
3. 3-5	0	900	0	0	0	0	0	0	0	0	0
TOTAL Lw IN ROOM =	5.0		75	51	57	63	69	71	68	64	61

ROOM ABSORPTION, Length = 7.2 Width= 4.0 m, Height = 2.8 metres = 81 m^3
Total Surface Area = 120 Square Metres

20.1				Ave Absorption Co-efficients 63	125	250	500	1000	2000	4000	8000
Ave Absorption Coefficicent =	BEDROOM with pb ceiling, brick walls/cement render and carpet floor			0.08	0.08	0.09	0.10	0.12	0.15	0.11	0.15
Absorption =				10	10	11	12	14	18	13	18
Reverberant Lp Inside Room =			69	47	53	58	64	65	61	59	54
Barrier 1. 0.00 Doors (NW) SI	Open Window/Door		dBA	Octave Band Centre Frequencies - Hz 63	125	250	500	1000	2000	4000	8000
	Direct Lp Inside Barrier	Input	60.6	37	43	49	55	57	54	50	47
	Comb'd Lp Inside Barrier		69.5	47	53	59	65	66	62	59	55
No: Dist.	Trial Combined Lw Inside Barrier		73.3	51	57	63	68	70	66	63	59
1. 2	Effective Reverb Lp Inside Barrier		69.5	47	53	59	65	66	62	59	55
2. 0	Barrier Sound Trans. Loss	Rw =	0	0	0	0	0	0	0	0	0
3. 0	Area of Barrier, m^2 =	2									
4. 0	Lw Outside Barrier		69.1	46	52	58	64	66	62	59	55
7.	No. of Same Barrier Paths =	1		0	0	0	0	0	0	0	0
8.	Distance Loss Distance (m) =	21		34	34	34	34	34	34	34	34
	Screen Wall Loss (eff. H=)	1.0		6	8	9	12	15	18	21	24
	Lp Contribution at Receptor =		15.2	1.0	5.8	9.7	13.2	11.9	5.4	-1.1	-8.7
	(A weighted level =)			-25.2	-10.3	1.1	10.0	11.9	6.6	-0.1	-9.8
Barrier 2. 12.01 Windows (SW)	Aluminium sliding window, 3 mm glass, mohair seals		dBA	Octave Band Centre Frequencies - Hz 63	125	250	500	1000	2000	4000	8000
Dist Source to Barrier	Direct Lp Inside Barrier		60.6	37	43	49	55	57	54	50	47
	Comb'd Lp Inside Barrier		69.5	47	53	59	65	66	62	59	55
No: Dist.	Trial Combined Lw Inside Barrier		49.5	27	33	39	45	46	42	39	35
1. 2	Effective Reverb Lp Inside Barrier		69.5	47	53	59	65	66	62	59	55
2. 0	Barrier Sound Trans. Loss	Rw =	24	13	15	20	21	22	26	25	25
3. 0	Area of Barrier, m^2 =	0									
4. 0	Lw Outside Barrier		22.2	10	14	14	19	19	13	10	6
7.	No. of Same Barrier Paths =	1		0	0	0	0	0	0	0	0
8.	Distance (Loss) metre =	21		34	34	34	34	34	34	34	34
	Screen Wall Loss (eff. H=)	0.9		6	7	9	11	14	17	20	23
	Lp Contribution at Receptor =		0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
	(A weighted level =)			-26.2	-16.1	-8.6	-3.2	0.0	1.2	1.0	-1.1
Barrier 3. 15.01 Skylight	Wintec aluminium awning window, 4 mm glass, Q lon seals		dBA	Octave Band Centre Frequencies - Hz 63	125	250	500	1000	2000	4000	8000
Dist Source to Barrier	Direct Lp Inside Barrier		60.6	37	43	49	55	57	54	50	47
	Comb'd Lp Inside Barrier		69.5	47	53	59	65	66	62	59	55
No: Dist.	Trial Combined Lw Inside Barrier		49.5	27	33	39	45	46	42	39	35
1. 2	Effective Reverb Lp Inside Barrier		69.5	47	53	59	65	66	62	59	55
2. 0	Barrier Sound Trans. Loss	Rw =	27	20	18	21	26	26	29	28	35
3. 0	Area of Barrier, m^2 =	0.0									
4. 0	Lw Outside Barrier		18.4	3	11	13	15	15	9	7	-4
7.	No. of Same Barrier Paths =	1		0	0	0	0	0	0	0	0
8.	Distance (Loss) metre =	21		34	34	34	34	34	34	34	34
	Screen Wall Loss (eff. H=)	-0.4		5	5	5	4	4	2	1	0
	Lp Contribution at Receptor =		0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
	(A weighted level =)			-26.2	-16.1	-8.6	-3.2	0.0	1.2	1.0	-1.1
ADD OUTSIDE Lp CONTRIBUTIONS			dBA	63	125	250	500	1000	2000	4000	8000
Total Lp Contribution from ROOM =			17	7	9	11	14	13	9	7	6
	(A weighted level =)			-16.1	-5.0	4.0	11.6	13.9	12.2	10.9	8.5
	Noise Level Criterion =		39	dBA							

ROOM NOISE EMISSION COMPUTATION (ROOMOUT.XLS) Version 7.00

DAY DESIGN PTY LTD
Engineer: SG/BL
Project No: 7460-1
Date: 5-May-2022
Atmosphere:
RH% 90.0

Client ..... Boskovitz Lawyers
Project Title..... 26 Beattie Ave, Denistone East
Room Description .... Indoor_1
Receptor Location.... R3
Noise Criterion ..... 39 dBA

Lw of NOISE SOURCES INSIDE ROOM	Number	Duration	dBA	NOISE LEVELS - dB (re: 1 picowatt) 63	125	250	500	1000	2000	4000	8000
1. 0-2	5	900	75	51	57	63	69	71	68	64	61
2. 2-3	0	900	0	0	0	0	0	0	0	0	0
3. 3-5	0	900	0	0	0	0	0	0	0	0	0
TOTAL Lw IN ROOM =	5.0		75	51	57	63	69	71	68	64	61

ROOM ABSORPTION, Length = 7.2 Width= 4.0 m, Height = 2.8 metres = 81 m^3
Total Surface Area = 120 Square Metres

20.1				Ave Absorption Co-efficients 63	125	250	500	1000	2000	4000	8000
Ave Absorption Coefficicent =	BEDROOM with pb ceiling, brick walls/cement render and carpet floor			0.08	0.08	0.09	0.10	0.12	0.15	0.11	0.15
Absorption =				10	10	11	12	14	18	13	18
Reverberant Lp Inside Room =			69	47	53	58	64	65	61	59	54
Barrier 1. 0.00 Doors (NW) S	Open Window/Door		dBA	Octave Band Centre Frequencies - Hz 63	125	250	500	1000	2000	4000	8000
	Direct Lp Inside Barrier	Input	60.6	37	43	49	55	57	54	50	47
	Comb'd Lp Inside Barrier		69.5	47	53	59	65	66	62	59	55
No: Dist.	Trial Combined Lw Inside Barrier		73.3	51	57	63	68	70	66	63	59
1. 2	Effective Reverb Lp Inside Barrier		69.5	47	53	59	65	66	62	59	55
2. 0	Barrier Sound Trans. Loss	Rw = 0		0	0	0	0	0	0	0	0
3. 0	Area of Barrier, m^2 =	2									
4. 0	Lw Outside Barrier		69.1	46	52	58	64	66	62	59	55
7.	No. of Same Barrier Paths =	1		0	0	0	0	0	0	0	0
8.	Distance Loss Distance (m) =	40		40	40	40	40	40	40	40	40
	Screen Wall Loss (eff. H=)	2.4		7	9	11	13	16	19	22	24
	Lp Contribution at Receptor =		9.5	-3.7	0.8	4.3	7.6	6.2	-0.4	-7.1	-14.1
	(A weighted level =)			-29.9	-15.3	-4.3	4.4	6.2	0.8	-6.1	-15.2
Barrier 2. 12.01 Windows (SW	Aluminium sliding window, 3 mm glass, mohair seals		dBA	Octave Band Centre Frequencies - Hz 63	125	250	500	1000	2000	4000	8000
Dist Source to Barrier	Direct Lp Inside Barrier		60.6	37	43	49	55	57	54	50	47
	Comb'd Lp Inside Barrier		69.5	47	53	59	65	66	62	59	55
No: Dist.	Trial Combined Lw Inside Barrier		71.1	49	55	60	66	68	64	61	57
1. 2	Effective Reverb Lp Inside Barrier		69.5	47	53	59	65	66	62	59	55
2. 0	Barrier Sound Trans. Loss	Rw = 24		13	15	20	21	22	26	25	25
3. 0	Area of Barrier, m^2 =	1									
4. 0	Lw Outside Barrier		43.8	31	35	36	40	41	34	31	28
7.	No. of Same Barrier Paths =	1		0	0	0	0	0	0	0	0
8.	Distance (Loss) metre =	40		40	40	40	40	40	40	40	40
	Screen Wall Loss (eff. H=)	1.8		6	7	9	11	14	17	20	23
	Lp Contribution at Receptor =		-17.7	-23.1	-20.0	-21.4	-18.7	-20.9	-30.8	-37.1	-45.2
	(A weighted level =)			-49.3	-36.1	-30.0	-21.9	-20.9	-29.6	-36.1	-46.3
Barrier 3. 15.01 Skylight	Wintec aluminium awning window, 4 mm glass, Q km seals		dBA	Octave Band Centre Frequencies - Hz 63	125	250	500	1000	2000	4000	8000
Dist Source to Barrier	Direct Lp Inside Barrier		60.6	37	43	49	55	57	54	50	47
	Comb'd Lp Inside Barrier		69.5	47	53	59	65	66	62	59	55
No: Dist.	Trial Combined Lw Inside Barrier		71.1	49	55	60	66	68	64	61	57
1. 2	Effective Reverb Lp Inside Barrier		69.5	47	53	59	65	66	62	59	55
2. 0	Barrier Sound Trans. Loss	Rw = 27		20	18	21	26	26	29	28	35
3. 0	Area of Barrier, m^2 =	1.4									
4. 0	Lw Outside Barrier		39.9	24	32	34	36	37	31	29	18
7.	No. of Same Barrier Paths =	1		0	0	0	0	0	0	0	0
8.	Distance (Loss) metre =	42		40	40	40	40	40	40	40	40
	Screen Wall Loss (eff. H=)	-0.8		5	5	4	3	2	0	0	0
	Lp Contribution at Receptor =		-5.6	-24.0	-15.8	-13.3	-10.8	-8.8	-13.5	-15.5	-27.9
	(A weighted level =)			-50.2	-31.9	-21.9	-14.0	-8.8	-12.3	-14.5	-29.0
ADD OUTSIDE Lp CONTRIBUTIONS			dBA	63	125	250	500	1000	2000	4000	8000
Total Lp Contribution from ROOM =			13	4	5	7	9	8	5	3	3
(A weighted level =)				-17.5	-6.9	1.3	7.9	10.5	10.2	9.6	7.4
Noise Level Criterion =			39	dBA							

ROOM NOISE EMISSION COMPUTATION (ROOMOUT.XLS) Version 7.00

DAY DESIGN PTY LTD
Engineer: SG/BL
Project No: 7460-1
Date: 5-May-2022
Atmosphere: RH% 90.0

Client ..... Boskovitz Lawyers
Project Title..... 26 Beattie Ave, Denistone East
Room Description .... Indoor_1
Receptor Location.... R4
Noise Criterion ..... 39 dBA

Lw of NOISE SOURCES INSIDE ROOM	Number	Duration	dBA	63	125	250	500	1000	2000	4000	8000
				NOISE LEVELS - dB (re: 1 picowatt)							
1. 0-2	5	900	75	51	57	63	69	71	68	64	61
2. 2-3	0	900	0	0	0	0	0	0	0	0	0
3. 3-5	0	900	0	0	0	0	0	0	0	0	0
TOTAL Lw IN ROOM =	5.0		75	51	57	63	69	71	68	64	61

ROOM ABSORPTION, Length = 7.2 Width= 4.0 m, Height = 2.8 metres = 81 m^3
Total Surface Area = 120 Square Metres

20.1				Ave Absorption Co=efficients							
Ave Absorption Coefficicent =	BEDROOM with pb ceiling, brick walls/cement render and carpet floor			63	125	250	500	1000	2000	4000	8000
				0.08	0.08	0.09	0.10	0.12	0.15	0.11	0.15
Absorption =				10	10	11	12	14	18	13	18
Reverberant Lp Inside Room =			69	47	53	58	64	65	61	59	54
Barrier 1. 0.00 Doors (NW) Sl	Open Window/Door			Octave Band Centre Frequencies - Hz							
			dBA	63	125	250	500	1000	2000	4000	8000
	Direct Lp Inside Barrier	Input	60.6	37	43	49	55	57	54	50	47
	Comb'd Lp Inside Barrier		69.5	47	53	59	65	66	62	59	55
No: Dist.	Trial Combined Lw Inside Barrier		73.3	51	57	63	68	70	66	63	59
1. 2	Effective Reverb Lp Inside Barrier		69.5	47	53	59	65	66	62	59	55
2. 0	Barrier Sound Trans. Loss	Rw = 0		0	0	0	0	0	0	0	0
3. 0	Area of Barrier, m^2 =	2									
4. 0	Lw Outside Barrier		69.1	46	52	58	64	66	62	59	55
7.	No. of Same Barrier Paths =	1		0	0	0	0	0	0	0	0
8.	Distance Loss Distance (m) =	42		40	40	40	40	40	40	40	40
	Screen Wall Loss (eff. H=)	0.6		5	5	6	6	7	9	11	14
	Lp Contribution at Receptor =		17.6	-2.3	3.6	8.9	14.3	14.7	9.4	3.4	-4.8
	(A weighted level =)			-28.5	-12.5	0.3	11.1	14.7	10.6	4.4	-5.9
Barrier 2. 12.01 Windows (SW	Aluminium sliding window, 3 mm glass, mohair seals			Octave Band Centre Frequencies - Hz							
			dBA	63	125	250	500	1000	2000	4000	8000
Dist Source to Barrier	Direct Lp Inside Barrier		60.6	37	43	49	55	57	54	50	47
	Comb'd Lp Inside Barrier		69.5	47	53	59	65	66	62	59	55
No: Dist.	Trial Combined Lw Inside Barrier		71.1	49	55	60	66	68	64	61	57
1. 2	Effective Reverb Lp Inside Barrier		69.5	47	53	59	65	66	62	59	55
2. 0	Barrier Sound Trans. Loss	Rw = 24		13	15	20	21	22	26	25	25
3. 0	Area of Barrier, m^2 =	1									
4. 0	Lw Outside Barrier		43.8	31	35	36	40	41	34	31	28
7.	No. of Same Barrier Paths =	1		0	0	0	0	0	0	0	0
8.	Distance (Loss) metre =	42		40	40	40	40	40	40	40	40
	Screen Wall Loss (eff. H=)	0.4		5	5	5	6	6	8	9	12
	Lp Contribution at Receptor =		-11.3	-22.4	-18.4	-18.4	-13.8	-14.0	-22.1	-27.1	-34.7
	(A weighted level =)			-48.6	-34.5	-27.0	-17.0	-14.0	-20.9	-26.1	-35.8
Barrier 3. 15.01 Skylight	Wintec aluminium awning window, 4 mm glass, Q lon seals			Octave Band Centre Frequencies - Hz							
			dBA	63	125	250	500	1000	2000	4000	8000
Dist Source to Barrier	Direct Lp Inside Barrier		60.6	37	43	49	55	57	54	50	47
	Comb'd Lp Inside Barrier		69.5	47	53	59	65	66	62	59	55
No: Dist.	Trial Combined Lw Inside Barrier		49.5	27	33	39	45	46	42	39	35
1. 2	Effective Reverb Lp Inside Barrier		69.5	47	53	59	65	66	62	59	55
2. 0	Barrier Sound Trans. Loss	Rw = 27		20	18	21	26	26	29	28	35
3. 0	Area of Barrier, m^2 =	0.0									
4. 0	Lw Outside Barrier		18.4	3	11	13	15	15	9	7	-4
7.	No. of Same Barrier Paths =	1		0	0	0	0	0	0	0	0
8.	Distance (Loss) metre =	42		40	40	40	40	40	40	40	40
	Screen Wall Loss (eff. H=)	-0.8		5	4	3	2	0	0	0	0
	Lp Contribution at Receptor =		0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
	(A weighted level =)			-26.2	-16.1	-8.6	-3.2	0.0	1.2	1.0	-1.1
ADD OUTSIDE Lp CONTRIBUTIONS			dBA	63	125	250	500	1000	2000	4000	8000
Total Lp Contribution from ROOM =			19	6	7	10	15	15	11	7	5
(A weighted level =)				-16.9	-6.0	3.4	12.2	15.7	13.4	11.1	8.1
Noise Level Criterion =			39	dBA							

ROOM NOISE EMISSION COMPUTATION (ROOMOUT.XLS) Version 7.00

DAY DESIGN PTY LTD
Engineer: SG/BL
Project No: 7460-1
Date: 5-May-2022
Atmosphere:
RH% 90.0

Client ..... Boskovitz Lawyers
Project Title..... 26 Beattie Ave, Denistone East
Room Description .... Indoor_1
Receptor Location.... R6
Noise Criterion ..... 39 dBA

Lw of NOISE SOURCES INSIDE ROOM	Number	Duration	dBA	NOISE LEVELS - dB (re: 1 picowatt) 63	125	250	500	1000	2000	4000	8000
1. 0-2	5	900	75	51	57	63	69	71	68	64	61
2. 2-3	0	900	0	0	0	0	0	0	0	0	0
3. 3-5	0	900	0	0	0	0	0	0	0	0	0
TOTAL Lw IN ROOM =	5.0		75	51	57	63	69	71	68	64	61

ROOM ABSORPTION, Length = 7.2 Width= 4.0 m, Height = 2.8 metres = 81 m³
Total Surface Area = 120 Square Metres

20.1				Ave Absorption Co-efficients 63	125	250	500	1000	2000	4000	8000
Ave Absorption Coefficicent =	BEDROOM with pb ceiling, brick walls/cement render and carpet floor			0.08	0.08	0.09	0.10	0.12	0.15	0.11	0.15
Absorption =				10	10	11	12	14	18	13	18
Reverberant Lp Inside Room =			69	47	53	58	64	65	61	59	54
Barrier 1. 0.00 Doors (NW) Sl	Open Window/Door			Octave Band Centre Frequencies - Hz							
			dBA	63	125	250	500	1000	2000	4000	8000
	Direct Lp Inside Barrier	Input	60.6	37	43	49	55	57	54	50	47
	Comb'd Lp Inside Barrier		69.5	47	53	59	65	66	62	59	55
No: Dist.	Trial Combined Lw Inside Barrier		49.5	27	33	39	45	46	42	39	35
1. 2	Effective Reverb Lp Inside Barrier		69.5	47	53	59	65	66	62	59	55
2. 0	Barrier Sound Trans. Loss	Rw =	0	0	0	0	0	0	0	0	0
3. 0	Area of Barrier, m² =	0									
4. 0	Lw Outside Barrier		45.3	23	29	34	40	42	38	35	31
7.	No. of Same Barrier Paths =	1		0	0	0	0	0	0	0	0
8.	Distance Loss Distance (m) =	39		40	40	40	40	40	40	40	40
	Screen Wall Loss (eff. H=)	0.6		6	6	7	9	11	13	16	19
	Lp Contribution at Receptor =		0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
	(A weighted level =)			-26.2	-16.1	-8.6	-3.2	0.0	1.2	1.0	-1.1
Barrier 2. 12.01 Windows (SW)	Aluminium sliding window, 3 mm glass, mohair seals			Octave Band Centre Frequencies - Hz							
			dBA	63	125	250	500	1000	2000	4000	8000
Dist Source to Barrier	Direct Lp Inside Barrier		60.6	37	43	49	55	57	54	50	47
	Comb'd Lp Inside Barrier		69.5	47	53	59	65	66	62	59	55
No: Dist.	Trial Combined Lw Inside Barrier		71.1	49	55	60	66	68	64	61	57
1. 2	Effective Reverb Lp Inside Barrier		69.5	47	53	59	65	66	62	59	55
2. 0	Barrier Sound Trans. Loss	Rw =	24	13	15	20	21	22	26	25	25
3. 0	Area of Barrier, m² =	1									
4. 0	Lw Outside Barrier		43.8	31	35	36	40	41	34	31	28
7.	No. of Same Barrier Paths =	1		0	0	0	0	0	0	0	0
8.	Distance (Loss) metre =	39		40	40	40	40	40	40	40	40
	Screen Wall Loss (eff. H=)	-0.2		5	5	5	4	4	3	1	0
	Lp Contribution at Receptor =		-7.6	-21.5	-17.4	-17.0	-11.7	-10.7	-16.7	-18.3	-22.1
	(A weighted level =)			-47.7	-33.5	-25.6	-14.9	-10.7	-15.5	-17.3	-23.2
Barrier 3. 15.01 Skylight	Wintec aluminium awning window, 4 mm glass, Q lon seals			Octave Band Centre Frequencies - Hz							
			dBA	63	125	250	500	1000	2000	4000	8000
Dist Source to Barrier	Direct Lp Inside Barrier		60.6	37	43	49	55	57	54	50	47
	Comb'd Lp Inside Barrier		69.5	47	53	59	65	66	62	59	55
No: Dist.	Trial Combined Lw Inside Barrier		71.1	49	55	60	66	68	64	61	57
1. 2	Effective Reverb Lp Inside Barrier		69.5	47	53	59	65	66	62	59	55
2. 0	Barrier Sound Trans. Loss	Rw =	27	20	18	21	26	26	29	28	35
3. 0	Area of Barrier, m² =	1.4									
4. 0	Lw Outside Barrier		39.9	24	32	34	36	37	31	29	18
7.	No. of Same Barrier Paths =	1		0	0	0	0	0	0	0	0
8.	Distance (Loss) metre =	39		40	40	40	40	40	40	40	40
	Screen Wall Loss (eff. H=)	-0.1		5	5	5	5	5	5	5	5
	Lp Contribution at Receptor =		-12.9	-28.6	-20.6	-18.4	-16.7	-15.8	-22.3	-24.7	-36.8
	(A weighted level =)			-54.8	-36.7	-27.0	-19.9	-15.8	-21.1	-23.7	-37.9
ADD OUTSIDE Lp CONTRIBUTIONS			dBA	63	125	250	500	1000	2000	4000	8000
Total Lp Contribution from ROOM =			12	5	5	5	5	5	5	5	5
	(A weighted level =)			-17.2	-7.1	0.4	5.9	9.1	10.2	10.0	7.9
	Noise Level Criterion =		39	dBA							

ROOM NOISE EMISSION COMPUTATION (ROOMOUT.XLS) Version 7.00

DAY DESIGN PTY LTD
Engineer: SG/BL
Project No: 7460-1
Date: 5-May-2022
Atmosphere:
RH% 90.0

Client . . . . . Boskovitz Lawyers
Project Title. . . . . 26 Beattie Ave, Denistone East
Room Description . . . . Indoor_2
Receptor Location. . . . R1B
Noise Criterion . . . . . 39 dBA

Lw of NOISE SOURCES INSIDE ROOM	Number	Duration	dBA	NOISE LEVELS - dB (re: 1 picowatt) 63	125	250	500	1000	2000	4000	8000
1. 0-2	0	900	0	0	0	0	0	0	0	0	0
2. 2-3	10	900	85	61	67	73	79	81	78	74	70
3. 3-5	0	900	0	0	0	0	0	0	0	0	0
TOTAL Lw IN ROOM =	10.0		85	61	67	73	79	81	78	74	70

ROOM ABSORPTION, Length = 7.4 Width= 7.0 m, Height = 2.8 metres = 145 m^3
Total Surface Area = 184 Square Metres

20.1				Ave Absorption Co-efficients 63	125	250	500	1000	2000	4000	8000
Ave Absorption Coefficicent =	BEDROOM with pb ceiling, brick walls/cement render and carpet floor			0.08	0.08	0.09	0.10	0.12	0.15	0.11	0.15
Absorption =				15	15	17	18	22	28	20	28
Reverberant Lp Inside Room =			77	55	61	66	72	74	70	67	62
Barrier 1.				Octave Band Centre Frequencies - Hz							
12.01	Aluminium sliding window, 3 mm glass, mohair seals										
Door (SW) Hir			dBA	63	125	250	500	1000	2000	4000	8000
	Direct Lp Inside Barrier	Input	70.6	47	53	59	65	67	64	60	56
	Comb'd Lp Inside Barrier		78.0	56	62	67	73	74	71	68	63
No: Dist.	Trial Combined Lw Inside Barrier		81.3	59	65	70	76	78	74	71	66
1. 0	Effective Reverb Lp Inside Barrier		78.0	56	62	67	73	74	71	68	63
2. 2	Barrier Sound Trans. Loss	Rw =	24	13	15	20	21	22	26	25	25
3. 0	Area of Barrier, m^2 =	2									
4. 0	Lw Outside Barrier		54.6	42	46	46	51	52	45	42	38
7.	No. of Same Barrier Paths =	1		0	0	0	0	0	0	0	0
8.	Distance Loss Distance (m) =	15		32	32	32	32	32	32	32	32
	Screen Wall Loss (eff. H=)	0.2		5	5	5	5	6	6	7	9
	Lp Contribution at Receptor =		17.3	5.3	9.3	9.5	14.4	14.6	7.3	3.2	-3.3
	(A weighted level =)			-20.9	-6.8	0.9	11.2	14.6	8.5	4.2	-4.4
Barrier 2.				Octave Band Centre Frequencies - Hz							
12.01	Aluminium sliding window, 3 mm glass, mohair seals										
Windows (SW)			dBA	63	125	250	500	1000	2000	4000	8000
Dist Source to Barrier	Direct Lp Inside Barrier		70.6	47	53	59	65	67	64	60	56
	Comb'd Lp Inside Barrier		78.0	56	62	67	73	74	71	68	63
No: Dist.	Trial Combined Lw Inside Barrier		78.0	56	62	67	73	74	71	68	63
1. 0	Effective Reverb Lp Inside Barrier		78.0	56	62	67	73	74	71	68	63
2. 2	Barrier Sound Trans. Loss	Rw =	24	13	15	20	21	22	26	25	25
3. 0	Area of Barrier, m^2 =	1.0									
4. 0	Lw Outside Barrier		51.2	39	43	43	48	48	42	39	34
7.	No. of Same Barrier Paths =	1		0	0	0	0	0	0	0	0
8.	Distance (Loss) metre =	15		32	32	32	32	32	32	32	32
	Screen Wall Loss (eff. H=)	0.6		5	6	6	7	9	11	14	17
	Lp Contribution at Receptor =		9.2	0.1	3.9	3.6	7.5	6.4	-2.7	-8.5	-16.4
	(A weighted level =)			-26.1	-12.2	-5.0	4.3	6.4	-1.5	-7.5	-17.5
Barrier 3.				Octave Band Centre Frequencies - Hz							
0.00	Open Window/Door										
Doors (NW) Si			dBA	63	125	250	500	1000	2000	4000	8000
Dist Source to Barrier	Direct Lp Inside Barrier		70.6	47	53	59	65	67	64	60	56
	Comb'd Lp Inside Barrier		78.0	56	62	67	73	74	71	68	63
No: Dist.	Trial Combined Lw Inside Barrier		58.0	36	42	47	53	54	51	48	43
1. 0	Effective Reverb Lp Inside Barrier		78.0	56	62	67	73	74	71	68	63
2. 2	Barrier Sound Trans. Loss	Rw =	0	0	0	0	0	0	0	0	0
3. 0	Area of Barrier, m^2 =	0.0									
4. 0	Lw Outside Barrier		54.4	32	38	43	49	51	47	44	39
7.	No. of Same Barrier Paths =	2		3	3	3	3	3	3	3	3
8.	Distance (Loss) metre =	15		32	32	32	32	32	32	32	32
	Screen Wall Loss (eff. H=)	0.6		5	6	6	7	9	11	14	17
	Lp Contribution at Receptor =		0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
	(A weighted level =)			-26.2	-16.1	-8.6	-3.2	0.0	1.2	1.0	-1.1
Barrier 4.				Octave Band Centre Frequencies - Hz							
15.01	Wintec aluminium awning window, 4 mm glass, Q lon seals										
Windows (NW)			dBA	63	125	250	500	1000	2000	4000	8000
Dist Source to Barrier	Direct Lp Inside Barrier		70.6	47	53	59	65	67	64	60	56
	Comb'd Lp Inside Barrier		78.0	56	62	67	73	74	71	68	63
No: Dist.	Trial Combined Lw Inside Barrier		78.0	56	62	67	73	74	71	68	63
1. 0	Effective Reverb Lp Inside Barrier		78.0	56	62	67	73	74	71	68	63
2. 2	Barrier Sound Trans. Loss	Rw =	27	20	18	21	26	26	29	28	35
3. 0	Area of Barrier, m^2 =	1.0									
4. 0	Lw Outside Barrier		47.4	32	40	42	44	44	38	36	24
7.	No. of Same Barrier Paths =	1		0	0	0	0	0	0	0	0
8.	Distance (Loss) metre =	16		32	32	32	32	32	32	32	32
	Screen Wall Loss (eff. H=)	0.6		5	6	6	7	9	11	14	17
	Ground Absorption =										
	Lp Contribution at Receptor =		0.3	-11.9	-4.2	-2.6	-1.9	-2.6	-11.3	-16.4	-31.6
	(A weighted level =)			-38.1	-20.3	-11.2	-5.1	-2.6	-10.1	-15.4	-32.7
ADD OUTSIDE Lp CONTRIBUTIONS			dBA	63	125	250	500	1000	2000	4000	8000
Total Lp Contribution from ROOM =			19	8	11	11	16	16	9	6	4
	(A weighted level =)			-15.6	-3.4	4.1	12.9	16.1	12.3	10.7	7.6
Noise Level Criterion =			39	dBA							

ROOM NOISE EMISSION COMPUTATION (ROOMOUT.XLS) Version 7.00

DAY DESIGN PTY LTD
Engineer: SG/BL
Project No: 7460-1
Date: 5-May-2022
Atmosphere:
RH% 90.0

Client . . . . . Boskovitz Lawyers
Project Title. . . . . 26 Beattie Ave, Denistone East
Room Description . . . . Indoor_2
Receptor Location. . . . R1C
Noise Criterion . . . . . 39 dBA

Lw of NOISE SOURCES INSIDE ROOM	Number	Duration	dBA	63	125	250	500	1000	2000	4000	8000
				NOISE LEVELS - dB (re: 1 picowatt)							
1. 0-2	0	900	0	0	0	0	0	0	0	0	0
2. 2-3	10	900	85	61	67	73	79	81	78	74	70
3. 3-5	0	900	0	0	0	0	0	0	0	0	0
TOTAL Lw IN ROOM =	10.0		85	61	67	73	79	81	78	74	70

ROOM ABSORPTION, Length = 7.4 Width= 7.0 m, Height = 2.8 metres = 145 m^3
Total Surface Area = 184 Square Metres

20.1				Ave Absorption Co-efficients 63	125	250	500	1000	2000	4000	8000
Ave Absorption Coefficicent =	BEDROOM with pb ceiling, brick walls/cement render and carpet floor			0.08	0.08	0.09	0.10	0.12	0.15	0.11	0.15
Absorption =				15	15	17	18	22	28	20	28
Reverberant Lp Inside Room =			77	55	61	66	72	74	70	67	62
Barrier 1. 0.00 Door (SW) Hi	Open Window/Door		dBA	Octave Band Centre Frequencies - Hz 63	125	250	500	1000	2000	4000	8000
	Direct Lp Inside Barrier	Input	70.6	47	53	59	65	67	64	60	56
	Comb'd Lp Inside Barrier		78.0	56	62	67	73	74	71	68	63
No: Dist.	Trial Combined Lw Inside Barrier		81.3	59	65	70	76	78	74	71	66
1. 0	Effective Reverb Lp Inside Barrier		78.0	56	62	67	73	74	71	68	63
2. 2	Barrier Sound Trans. Loss	Rw = 0		0	0	0	0	0	0	0	0
3. 0	Area of Barrier, m^2 =	2									
4. 0	Lw Outside Barrier		77.7	55	61	67	73	74	71	67	63
7.	No. of Same Barrier Paths =	1		0	0	0	0	0	0	0	0
8.	Distance Loss Distance (m) =	13		30	30	30	30	30	30	30	30
	Screen Wall Loss (eff. H=)	0.9		6	7	8	10	13	16	19	22
	Lp Contribution at Receptor =		32.7	17.1	22.3	26.6	30.5	29.6	23.2	16.7	8.6
	(A weighted level =)			-9.1	6.2	18.0	27.3	29.6	24.4	17.7	7.5
Barrier 2. 12.01 Windows (SW	Aluminium sliding window, 3 mm glass, mohair seals		dBA	Octave Band Centre Frequencies - Hz 63	125	250	500	1000	2000	4000	8000
Dist Source to Barrier	Direct Lp Inside Barrier		70.6	47	53	59	65	67	64	60	56
	Comb'd Lp Inside Barrier		78.0	56	62	67	73	74	71	68	63
No: Dist.	Trial Combined Lw Inside Barrier		78.0	56	62	67	73	74	71	68	63
1. 0	Effective Reverb Lp Inside Barrier		78.0	56	62	67	73	74	71	68	63
2. 2	Barrier Sound Trans. Loss	Rw = 24		13	15	20	21	22	26	25	25
3. 0	Area of Barrier, m^2 =	1.0									
4. 0	Lw Outside Barrier		51.2	39	43	43	48	48	42	39	34
7.	No. of Same Barrier Paths =	1		0	0	0	0	0	0	0	0
8.	Distance (Loss) metre =	13		30	30	30	30	30	30	30	30
	Screen Wall Loss (eff. H=)	0.7		6	6	7	8	10	13	16	19
	Lp Contribution at Receptor =		10.7	2.7	6.3	5.7	9.2	7.8	-1.6	-7.6	-15.5
	(A weighted level =)			-23.5	-9.8	-2.9	6.0	7.8	-0.4	-6.6	-16.6
Barrier 3. 0.00 Doors (NW) Si	Open Window/Door		dBA	Octave Band Centre Frequencies - Hz 63	125	250	500	1000	2000	4000	8000
Dist Source to Barrier	Direct Lp Inside Barrier		70.6	47	53	59	65	67	64	60	56
	Comb'd Lp Inside Barrier		78.0	56	62	67	73	74	71	68	63
No: Dist.	Trial Combined Lw Inside Barrier		83.8	61	67	73	79	80	77	74	69
1. 0	Effective Reverb Lp Inside Barrier		78.0	55	61	67	73	74	71	68	63
2. 2	Barrier Sound Trans. Loss	Rw = 0		0	0	0	0	0	0	0	0
3. 0	Area of Barrier, m^2 =	3.8									
4. 0	Lw Outside Barrier		80.2	57	63	69	75	77	73	70	65
7.	No. of Same Barrier Paths =	2		3	3	3	3	3	3	3	3
8.	Distance (Loss) metre =	13		30	30	30	30	30	30	30	30
	Screen Wall Loss (eff. H=)	0.7		6	6	7	8	10	13	16	19
	Lp Contribution at Receptor =		36.0	18.3	23.8	28.9	33.4	33.0	26.9	20.5	12.3
	(A weighted level =)			-7.9	7.7	20.3	30.2	33.0	28.1	21.5	11.2
Barrier 4. 15.01 Windows (NW	Wintec aluminium awning window, 4 mm glass, Q lon seals		dBA	Octave Band Centre Frequencies - Hz 63	125	250	500	1000	2000	4000	8000
Dist Source to Barrier	Direct Lp Inside Barrier		70.6	47	53	59	65	67	64	60	56
	Comb'd Lp Inside Barrier		78.0	56	62	67	73	74	71	68	63
No: Dist.	Trial Combined Lw Inside Barrier		78.0	56	62	67	73	74	71	68	63
1. 0	Effective Reverb Lp Inside Barrier		78.0	56	62	67	73	74	71	68	63
2. 2	Barrier Sound Trans. Loss	Rw = 27		20	18	21	26	26	29	28	35
3. 0	Area of Barrier, m^2 =	1.0									
4. 0	Lw Outside Barrier		47.4	32	40	42	44	44	38	36	24
7.	No. of Same Barrier Paths =	1		0	0	0	0	0	0	0	0
8.	Distance (Loss) metre =	16		32	32	32	32	32	32	32	32
	Screen Wall Loss (eff. H=)	0.7		6	6	7	8	10	13	16	19
	Ground Absorption =										
	Lp Contribution at Receptor =		-1.0	-12.1	-4.5	-3.2	-2.9	-4.0	-13.0	-18.3	-33.5
	(A weighted level =)			-38.3	-20.6	-11.8	-6.1	-4.0	-11.8	-17.3	-34.6
ADD OUTSIDE Lp CONTRIBUTIONS			dBA	63	125	250	500	1000	2000	4000	8000
Total Lp Contribution from ROOM =			38	21	26	31	35	35	28	22	14
(A weighted level =)				-5.2	10.1	22.3	32.1	34.6	29.7	23.2	13.7
Noise Level Criterion =			39	dBA							

ROOM NOISE EMISSION COMPUTATION (ROOMOUT.XLS) Version 7.00

DAY DESIGN PTY LTD
Engineer: SG/BL
Project No: 7460-1
Date: 5-May-2022
Atmosphere:
RH% 90.0

Client ..... Boskovitz Lawyers
Project Title..... 26 Beattie Ave, Denistone East
Room Description .... Indoor_2
Receptor Location. R1D
Noise Criterion ..... 39 dBA

Lw of NOISE SOURCES INSIDE ROOM	Number	Duration	dBA	NOISE LEVELS - dB (re: 1 picowatt) 63	125	250	500	1000	2000	4000	8000
1. 0-2	0	900	0	0	0	0	0	0	0	0	0
2. 2-3	10	900	85	61	67	73	79	81	78	74	70
3. 3-5	0	900	0	0	0	0	0	0	0	0	0
TOTAL Lw IN ROOM =	10.0		85	61	67	73	79	81	78	74	70

ROOM ABSORPTION, Length = 7.4 Width= 7.0 m, Height = 2.8 metres = 145 m^3
Total Surface Area = 184 Square Metres

20.1				Ave Absorption Co=efficients 63	125	250	500	1000	2000	4000	8000
Ave Absorption Coefficicent =	BEDROOM with pb ceiling, brick walls/cement render and carpet floor			0.08	0.08	0.09	0.10	0.12	0.15	0.11	0.15
Absorption =				15	15	17	18	22	28	20	28
Reverberant Lp Inside Room =			77	55	61	66	72	74	70	67	62

Barrier 1. 0.00 Door (SW) Hir	Open Window/Door			Octave Band Centre Frequencies - Hz 63	125	250	500	1000	2000	4000	8000
			dBA								
	Direct Lp Inside Barrier	Input	70.6	47	53	59	65	67	64	60	56
	Comb'd Lp Inside Barrier		78.0	56	62	67	73	74	71	68	63
No: Dist.	Trial Combined Lw Inside Barrier		81.3	59	65	70	76	78	74	71	66
1. 0	Effective Reverb Lp Inside Barrier		78.0	56	62	67	73	74	71	68	63
2. 2	Barrier Sound Trans. Loss	Rw =	0	0	0	0	0	0	0	0	0
3. 0	Area of Barrier, m^2 =	2									
4. 0	Lw Outside Barrier		77.7	55	61	67	73	74	71	67	63
7.	No. of Same Barrier Paths =	1		0	0	0	0	0	0	0	0
8.	Distance Loss Distance (m) =	22		35	35	35	35	35	35	35	35
	Screen Wall Loss (eff. H=)	1.2		6	7	9	12	14	17	20	23
	Lp Contribution at Receptor =		26.6	12.1	17.0	21.0	24.6	23.4	16.9	10.3	1.8
	(A weighted level =)			-14.1	0.9	12.4	21.4	23.4	18.1	11.3	0.7

Barrier 2. 12.01 Windows (SW)	Aluminium sliding window, 3 mm glass, mohair seals			Octave Band Centre Frequencies - Hz 63	125	250	500	1000	2000	4000	8000
			dBA								
Dist Source to Barrier	Direct Lp Inside Barrier		70.6	47	53	59	65	67	64	60	56
	Comb'd Lp Inside Barrier		78.0	56	62	67	73	74	71	68	63
No: Dist.	Trial Combined Lw Inside Barrier		78.0	56	62	67	73	74	71	68	63
1. 0	Effective Reverb Lp Inside Barrier		78.0	56	62	67	73	74	71	68	63
2. 2	Barrier Sound Trans. Loss	Rw =	24	13	15	20	21	22	26	25	25
3. 0	Area of Barrier, m^2 =	1.0									
4. 0	Lw Outside Barrier		51.2	39	43	43	48	48	42	39	34
7.	No. of Same Barrier Paths =	1		0	0	0	0	0	0	0	0
8.	Distance (Loss) metre =	22		35	35	35	35	35	35	35	35
	Screen Wall Loss (eff. H=)	1.1		6	7	8	11	13	16	19	22
	Lp Contribution at Receptor =		2.0	-3.9	-0.8	-2.0	0.9	-1.2	-10.9	-17.1	-25.4
	(A weighted level =)			-30.1	-16.9	-10.6	-2.3	-1.2	-9.7	-16.1	-26.5

Barrier 3. 0.00 Doors (NW) Si	Open Window/Door			Octave Band Centre Frequencies - Hz 63	125	250	500	1000	2000	4000	8000
			dBA								
Dist Source to Barrier	Direct Lp Inside Barrier		70.6	47	53	59	65	67	64	60	56
	Comb'd Lp Inside Barrier		78.0	56	62	67	73	74	71	68	63
No: Dist.	Trial Combined Lw Inside Barrier		83.8	61	67	73	79	80	77	74	69
1. 0	Effective Reverb Lp Inside Barrier		78.0	55	61	67	73	74	71	68	63
2. 2	Barrier Sound Trans. Loss	Rw =	0	0	0	0	0	0	0	0	0
3. 0	Area of Barrier, m^2 =	3.8									
4. 0	Lw Outside Barrier		80.2	57	63	69	75	77	73	70	65
7.	No. of Same Barrier Paths =	2		3	3	3	3	3	3	3	3
8.	Distance (Loss) metre =	22		35	35	35	35	35	35	35	35
	Screen Wall Loss (eff. H=)	1.1		6	7	8	11	13	16	19	22
	Lp Contribution at Receptor =		28.6	13.1	18.2	22.7	26.6	25.5	19.1	12.5	4.0
	(A weighted level =)			-13.1	2.1	14.1	23.4	25.5	20.3	13.5	2.9

Barrier 4. 15.01 Windows (NW	Wintec aluminium awning window, 4 mm glass, Q lon seals			Octave Band Centre Frequencies - Hz 63	125	250	500	1000	2000	4000	8000
			dBA								
Dist Source to Barrier	Direct Lp Inside Barrier		70.6	47	53	59	65	67	64	60	56
	Comb'd Lp Inside Barrier		78.0	56	62	67	73	74	71	68	63
No: Dist.	Trial Combined Lw Inside Barrier		78.0	56	62	67	73	74	71	68	63
1. 0	Effective Reverb Lp Inside Barrier		78.0	56	62	67	73	74	71	68	63
2. 2	Barrier Sound Trans. Loss	Rw =	27	20	18	21	26	26	29	28	35
3. 0	Area of Barrier, m^2 =	1.0									
4. 0	Lw Outside Barrier		47.4	32	40	42	44	44	38	36	24
7.	No. of Same Barrier Paths =	1		0	0	0	0	0	0	0	0
8.	Distance (Loss) metre =	16		32	32	32	32	32	32	32	32
	Screen Wall Loss (eff. H=)	1.1		6	7	8	11	13	16	19	22
	Ground Absorption =										
	Lp Contribution at Receptor =		-3.6	-12.7	-5.5	-4.8	-5.2	-6.9	-16.2	-21.6	-36.8
	(A weighted level =)			-38.9	-21.6	-13.4	-8.4	-6.9	-15.0	-20.6	-37.9

ADD OUTSIDE Lp CONTRIBUTIONS	dBA	63	125	250	500	1000	2000	4000	8000
Total Lp Contribution from ROOM =	31	16	21	25	29	28	21	15	7
(A weighted level =)		-9.8	4.8	16.4	25.5	27.6	22.6	16.4	8.9
Noise Level Criterion =	39	dBA							

ROOM NOISE EMISSION COMPUTATION (ROOMOUT.XLS) Version 7.00

DAY DESIGN PTY LTD
Engineer: SG/BL
Project No: 7460-1
Date: 5-May-2022
Atmosphere:
RH% 90.0

Client ..... Boskovitz Lawyers
Project Title..... 26 Beattie Ave, Denistone East
Room Description .... Indoor_2
Receptor Location. R2B
Noise Criterion ..... 39 dBA

Lw of NOISE SOURCES INSIDE ROOM	Number	Duration	dBA	NOISE LEVELS - dB (re: 1 picowatt) 63	125	250	500	1000	2000	4000	8000
1. 0-2	0	900	0	0	0	0	0	0	0	0	0
2. 2-3	10	900	85	61	67	73	79	81	78	74	70
3. 3-5	0	900	0	0	0	0	0	0	0	0	0
TOTAL Lw IN ROOM =	10.0		85	61	67	73	79	81	78	74	70

ROOM ABSORPTION, Length = 7.4 Width= 7.0 m, Height = 2.8 metres = 145 m^3

Total Surface Area = 184 Square Metres

20.1				Ave Absorption Co-efficients 63	125	250	500	1000	2000	4000	8000
Ave Absorption Coefficicent =	BEDROOM with pb ceiling, brick walls/cement render and carpet floor			0.08	0.08	0.09	0.10	0.12	0.15	0.11	0.15
Absorption =				15	15	17	18	22	28	20	28
Reverberant Lp Inside Room =			77	55	61	66	72	74	70	67	62

Barrier 1. 0.00 Door (SW) Hin	Open Window/Door			Octave Band Centre Frequencies - Hz 63	125	250	500	1000	2000	4000	8000
			dBA								
	Direct Lp Inside Barrier	Input	70.6	47	53	59	65	67	64	60	56
	Comb'd Lp Inside Barrier		78.0	56	62	67	73	74	71	68	63
No: Dist.	Trial Combined Lw Inside Barrier		58.0	36	42	47	53	54	51	48	43
1. 0	Effective Reverb Lp Inside Barrier		78.0	56	62	67	73	74	71	68	63
2. 2	Barrier Sound Trans. Loss	Rw =	0	0	0	0	0	0	0	0	0
3. 0	Area of Barrier, m^2 =	0									
4. 0	Lw Outside Barrier		54.4	32	38	43	49	51	47	44	39
7.	No. of Same Barrier Paths =	1		0	0	0	0	0	0	0	0
8.	Distance Loss Distance (m) =	13		30	30	30	30	30	30	30	30
	Screen Wall Loss (eff. H=)	1.3		9	11	13	16	19	22	24	24
	Lp Contribution at Receptor =		0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
	(A weighted level =)			-26.2	-16.1	-8.6	-3.2	0.0	1.2	1.0	-1.1

Barrier 2. 12.01 Windows (SW	Aluminium sliding window, 3 mm glass, mohair seals			Octave Band Centre Frequencies - Hz 63	125	250	500	1000	2000	4000	8000
			dBA								
Dist Source to Barrier	Direct Lp Inside Barrier		70.6	47	53	59	65	67	64	60	56
	Comb'd Lp Inside Barrier		78.0	56	62	67	73	74	71	68	63
No: Dist.	Trial Combined Lw Inside Barrier		58.0	36	42	47	53	54	51	48	43
1. 0	Effective Reverb Lp Inside Barrier		78.0	56	62	67	73	74	71	68	63
2. 2	Barrier Sound Trans. Loss	Rw =	24	13	15	20	21	22	26	25	25
3. 0	Area of Barrier, m^2 =	0									
4. 0	Lw Outside Barrier		31.2	19	23	23	28	28	22	19	14
7.	No. of Same Barrier Paths =	1		0	0	0	0	0	0	0	0
8.	Distance (Loss) metre =	13		30	30	30	30	30	30	30	30
	Screen Wall Loss (eff. H=)	1.3		8	10	13	16	19	22	24	24
	Lp Contribution at Receptor =		0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
	(A weighted level =)			-26.2	-16.1	-8.6	-3.2	0.0	1.2	1.0	-1.1

Barrier 3. 0.00 Doors (NW) Sl	Open Window/Door			Octave Band Centre Frequencies - Hz 63	125	250	500	1000	2000	4000	8000
			dBA								
Dist Source to Barrier	Direct Lp Inside Barrier		70.6	47	53	59	65	67	64	60	56
	Comb'd Lp Inside Barrier		78.0	56	62	67	73	74	71	68	63
No: Dist.	Trial Combined Lw Inside Barrier		83.8	61	67	73	79	80	77	74	69
1. 0	Effective Reverb Lp Inside Barrier		78.0	55	61	67	73	74	71	68	63
2. 2	Barrier Sound Trans. Loss	Rw =	0	0	0	0	0	0	0	0	0
3. 0	Area of Barrier, m^2 =	3.8									
4. 0	Lw Outside Barrier		80.2	57	63	69	75	77	73	70	65
7.	No. of Same Barrier Paths =	2		3	3	3	3	3	3	3	3
8.	Distance (Loss) metre =	13		30	30	30	30	30	30	30	30
	Screen Wall Loss (eff. H=)	1.3		8	10	13	16	19	22	24	24
	Lp Contribution at Receptor =		19.9	7.6	11.5	14.9	18.0	16.6	10.1	4.4	-0.8
	(A weighted level =)			-18.6	-4.6	6.3	14.8	16.6	11.3	5.4	-1.9

Barrier 4. 15.01 Windows (NW	Wintec aluminium awning window, 4 mm glass, Q lon seals			Octave Band Centre Frequencies - Hz 63	125	250	500	1000	2000	4000	8000
			dBA								
Dist Source to Barrier	Direct Lp Inside Barrier		70.6	47	53	59	65	67	64	60	56
	Comb'd Lp Inside Barrier		78.0	56	62	67	73	74	71	68	63
No: Dist.	Trial Combined Lw Inside Barrier		78.0	56	62	67	73	74	71	68	63
1. 0	Effective Reverb Lp Inside Barrier		78.0	56	62	67	73	74	71	68	63
2. 2	Barrier Sound Trans. Loss	Rw =	27	20	18	21	26	26	29	28	35
3. 0	Area of Barrier, m^2 =	1									
4. 0	Lw Outside Barrier		47.4	32	40	42	44	44	38	36	24
7.	No. of Same Barrier Paths =	1		0	0	0	0	0	0	0	0
8.	Distance (Loss) metre =	13		30	30	30	30	30	30	30	30
	Screen Wall Loss (eff. H=)	1.3		8	10	13	16	19	22	24	24
	Ground Absorption =										
	Lp Contribution at Receptor =		-14.9	-21.0	-15.0	-15.4	-16.5	-18.6	-28.0	-32.5	-44.6
	(A weighted level =)			-47.2	-31.1	-24.0	-19.7	-18.6	-26.8	-31.5	-45.7

ADD OUTSIDE Lp CONTRIBUTIONS	dBA	63	125	250	500	1000	2000	4000	8000
Total Lp Contribution from ROOM =	21	9	12	15	18	17	11	8	6
(A weighted level =)		-14.8	-2.6	7.3	15.3	17.3	13.8	11.3	8.4
Noise Level Criterion =	39	dBA							

ROOM NOISE EMISSION COMPUTATION (ROOMOUT.XLS) Version 7.00

DAY DESIGN PTY LTD
Engineer: SG/BL
Project No: 7460-1
Date: 5-May-2022
Atmosphere:
RH% 90.0

Client . . . . . Boskovitz Lawyers
Project Title. . . . . 26 Beattie Ave, Denistone East
Room Description . . . . Indoor_2
Receptor Location. . . . R2C
Noise Criterion . . . . . 39 dBA

Lw of NOISE SOURCES INSIDE ROOM	Number	Duration	dBA	63	125	250	500	1000	2000	4000	8000
				NOISE LEVELS - dB (re: 1 picowatt)							
1. 0-2	0	900	0	0	0	0	0	0	0	0	0
2. 2-3	10	900	85	61	67	73	79	81	78	74	70
3. 3-5	0	900	0	0	0	0	0	0	0	0	0
TOTAL Lw IN ROOM =	10.0		85	61	67	73	79	81	78	74	70

ROOM ABSORPTION, Length = 7.4 Width= 7.0 m, Height = 2.8 metres = 145 m³
Total Surface Area = 184 Square Metres

		63	125	250	500	1000	2000	4000	8000
20.1		Ave Absorption Co-efficients							
Ave Absorption Coefficicent =	BEDROOM with pb ceiling, brick walls/cement render and carpet floor	0.08	0.08	0.09	0.10	0.12	0.15	0.11	0.15
Absorption =		15	15	17	18	22	28	20	28
Reverberant Lp Inside Room =	77	55	61	66	72	74	70	67	62

Barrier 1. 0.00 Door (SW) Hir	Open Window/Door		dBA	63	125	250	500	1000	2000	4000	8000
				Octave Band Centre Frequencies - Hz							
	Direct Lp Inside Barrier	Input	70.6	47	53	59	65	67	64	60	56
	Comb'd Lp Inside Barrier		78.0	56	62	67	73	74	71	68	63
No: Dist.	Trial Combined Lw Inside Barrier		58.0	36	42	47	53	54	51	48	43
1. 0	Effective Reverb Lp Inside Barrier		78.0	56	62	67	73	74	71	68	63
2. 2	Barrier Sound Trans. Loss	Rw = 0		0	0	0	0	0	0	0	0
3. 0	Area of Barrier, m^2 =	0									
4. 0	Lw Outside Barrier		54.4	32	38	43	49	51	47	44	39
7.	No. of Same Barrier Paths =	1		0	0	0	0	0	0	0	0
8.	Distance Loss Distance (m) =	21		34	34	34	34	34	34	34	34
	Screen Wall Loss (eff. H=)	1.0		6	8	9	12	15	18	21	24
	Lp Contribution at Receptor =		0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
	(A weighted level =)			-26.2	-16.1	-8.6	-3.2	0.0	1.2	1.0	-1.1

Barrier 2. 12.01 Windows (SW)	Aluminium sliding window, 3 mm glass, mohair seals		dBA	63	125	250	500	1000	2000	4000	8000
				Octave Band Centre Frequencies - Hz							
Dist Source to Barrier	Direct Lp Inside Barrier		70.6	47	53	59	65	67	64	60	56
	Comb'd Lp Inside Barrier		78.0	56	62	67	73	74	71	68	63
No: Dist.	Trial Combined Lw Inside Barrier		58.0	36	42	47	53	54	51	48	43
1. 0	Effective Reverb Lp Inside Barrier		78.0	56	62	67	73	74	71	68	63
2. 2	Barrier Sound Trans. Loss	Rw = 24		13	15	20	21	22	26	25	25
3. 0	Area of Barrier, m^2 =	0									
4. 0	Lw Outside Barrier		31.2	19	23	23	28	28	22	19	14
7.	No. of Same Barrier Paths =	1		0	0	0	0	0	0	0	0
8.	Distance (Loss) metre =	21		34	34	34	34	34	34	34	34
	Screen Wall Loss (eff. H=)	0.9		6	7	9	11	14	17	20	23
	Lp Contribution at Receptor =		0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
	(A weighted level =)			-26.2	-16.1	-8.6	-3.2	0.0	1.2	1.0	-1.1

Barrier 3. 0.00 Doors (NW) Sl	Open Window/Door		dBA	63	125	250	500	1000	2000	4000	8000
				Octave Band Centre Frequencies - Hz							
Dist Source to Barrier	Direct Lp Inside Barrier		70.6	47	53	59	65	67	64	60	56
	Comb'd Lp Inside Barrier		78.0	56	62	67	73	74	71	68	63
No: Dist.	Trial Combined Lw Inside Barrier		83.8	61	67	73	79	80	77	74	69
1. 0	Effective Reverb Lp Inside Barrier		78.0	55	61	67	73	74	71	68	63
2. 2	Barrier Sound Trans. Loss	Rw = 0		0	0	0	0	0	0	0	0
3. 0	Area of Barrier, m^2 =	3.8									
4. 0	Lw Outside Barrier		80.2	57	63	69	75	77	73	70	65
7.	No. of Same Barrier Paths =	2		3	3	3	3	3	3	3	3
8.	Distance (Loss) metre =	21		34	34	34	34	34	34	34	34
	Screen Wall Loss (eff. H=)	0.9		6	7	9	11	14	17	20	23
	Lp Contribution at Receptor =		34.5	19.4	24.4	28.7	32.4	31.3	24.9	18.3	9.8
	(A weighted level =)			-6.8	8.3	20.1	29.2	31.3	26.1	19.3	8.7

Barrier 4. 15.01 Windows (NW	Wintec aluminium awning window, 4 mm glass, Q lon seals		dBA	63	125	250	500	1000	2000	4000	8000
				Octave Band Centre Frequencies - Hz							
Dist Source to Barrier	Direct Lp Inside Barrier		70.6	47	53	59	65	67	64	60	56
	Comb'd Lp Inside Barrier		78.0	56	62	67	73	74	71	68	63
No: Dist.	Trial Combined Lw Inside Barrier		78.0	56	62	67	73	74	71	68	63
1. 0	Effective Reverb Lp Inside Barrier		78.0	56	62	67	73	74	71	68	63
2. 2	Barrier Sound Trans. Loss	Rw = 27		20	18	21	26	26	29	28	35
3. 0	Area of Barrier, m^2 =	1.0									
4. 0	Lw Outside Barrier		47.4	32	40	42	44	44	38	36	24
7.	No. of Same Barrier Paths =	1		0	0	0	0	0	0	0	0
8.	Distance (Loss) metre =	16		32	32	32	32	32	32	32	32
	Screen Wall Loss (eff. H=)	0.9		6	7	9	11	14	17	20	23
	Ground Absorption =										
	Lp Contribution at Receptor =		1.9	-6.8	0.2	0.8	0.3	-1.5	-10.9	-16.2	-31.4
	(A weighted level =)			-33.0	-15.9	-7.8	-2.9	-1.5	-9.7	-15.2	-32.5

ADD OUTSIDE Lp CONTRIBUTIONS	dBA	63	125	250	500	1000	2000	4000	8000
Total Lp Contribution from ROOM =	34	20	24	29	32	31	25	18	11
(A weighted level =)		-6.4	8.4	20.2	29.3	31.3	26.2	19.8	11.3
Noise Level Criterion =	39	dBA							

ROOM NOISE EMISSION COMPUTATION (ROOMOUT.XLS) Version 7.00

DAY DESIGN PTY LTD
Engineer: SG/BL
Project No: 7460-1
Date: 5-May-2022
Atmosphere:
RH% 90.0

Client ..... Boskovitz Lawyers
Project Title..... 26 Beattie Ave, Denistone East
Room Description .... Indoor_2
Receptor Location.... R3
Noise Criterion ..... 39 dBA

Lw of NOISE SOURCES INSIDE ROOM	Number	Duration	dBA	NOISE LEVELS - dB (re: 1 picowatt) 63	125	250	500	1000	2000	4000	8000
1. 0-2	0	900	0	0	0	0	0	0	0	0	0
2. 2-3	10	900	85	61	67	73	79	81	78	74	70
3. 3-5	0	900	0	0	0	0	0	0	0	0	0
TOTAL Lw IN ROOM =	10.0		85	61	67	73	79	81	78	74	70

ROOM ABSORPTION, Length = 7.4 Width= 7.0 m, Height = 2.8 metres = 145 m^3
Total Surface Area = 184 Square Metres

20.1				Ave Absorption Coefficients 63	125	250	500	1000	2000	4000	8000
Ave Absorption Coefficicent =	BEDROOM with pb ceiling, brick walls/cement render and carpet floor			0.08	0.08	0.09	0.10	0.12	0.15	0.11	0.15
	Absorption =			15	15	17	18	22	28	20	28
	Reverberant Lp Inside Room =		77	55	61	66	72	74	70	67	62
Barrier 1. 0.00 Door (SW) Hin	Open Window/Door			Octave Band Centre Frequencies - Hz							
			dBA	63	125	250	500	1000	2000	4000	8000
	Direct Lp Inside Barrier	Input	70.6	47	53	59	65	67	64	60	56
	Comb'd Lp Inside Barrier		78.0	56	62	67	73	74	71	68	63
No: Dist.	Trial Combined Lw Inside Barrier		81.3	59	65	70	76	78	74	71	66
1. 0	Effective Reverb Lp Inside Barrier		78.0	56	62	67	73	74	71	68	63
2. 2	Barrier Sound Trans. Loss	Rw =	0	0	0	0	0	0	0	0	0
3. 0	Area of Barrier, m^2 =	2									
4. 0	Lw Outside Barrier		77.7	55	61	67	73	74	71	67	63
7.	No. of Same Barrier Paths =	1		0	0	0	0	0	0	0	0
8.	Distance Loss Distance (m) =	35		39	39	39	39	39	39	39	39
	Screen Wall Loss (eff. H=)	1.7		6	7	8	11	13	16	19	22
	Lp Contribution at Receptor =		17.2	1.9	7.0	11.3	15.1	14.1	7.7	0.9	-8.1
	(A weighted level =)			-24.3	-9.1	2.7	11.9	14.1	8.9	1.9	-9.2
Barrier 2. 12.01 Windows (SW	Aluminium sliding window, 3 mm glass, mohair seals			Octave Band Centre Frequencies - Hz							
			dBA	63	125	250	500	1000	2000	4000	8000
Dist Source to Barrier	Direct Lp Inside Barrier		70.6	47	53	59	65	67	64	60	56
	Comb'd Lp Inside Barrier		78.0	56	62	67	73	74	71	68	63
No: Dist.	Trial Combined Lw Inside Barrier		78.0	56	62	67	73	74	71	68	63
1. 0	Effective Reverb Lp Inside Barrier		78.0	56	62	67	73	74	71	68	63
2. 2	Barrier Sound Trans. Loss	Rw =	24	13	15	20	21	22	26	25	25
3. 0	Area of Barrier, m^2 =	1.0									
4. 0	Lw Outside Barrier		51.2	39	43	43	48	48	42	39	34
7.	No. of Same Barrier Paths =	1		0	0	0	0	0	0	0	0
8.	Distance (Loss) metre =	35		39	39	39	39	39	39	39	39
	Screen Wall Loss (eff. H=)	1.4		6	6	7	9	11	14	17	20
	Lp Contribution at Receptor =		-6.7	-14.1	-10.6	-11.4	-8.0	-9.8	-19.4	-25.6	-34.4
	(A weighted level =)			-40.3	-26.7	-20.0	-11.2	-9.8	-18.2	-24.6	-35.5
Barrier 3. 0.00 Doors (NW) Sl	Open Window/Door			Octave Band Centre Frequencies - Hz							
			dBA	63	125	250	500	1000	2000	4000	8000
Dist Source to Barrier	Direct Lp Inside Barrier		70.6	47	53	59	65	67	64	60	56
	Comb'd Lp Inside Barrier		78.0	56	62	67	73	74	71	68	63
No: Dist.	Trial Combined Lw Inside Barrier		83.8	61	67	73	79	80	77	74	69
1. 0	Effective Reverb Lp Inside Barrier		78.0	55	61	67	73	74	71	68	63
2. 2	Barrier Sound Trans. Loss	Rw =	0	0	0	0	0	0	0	0	0
3. 0	Area of Barrier, m^2 =	3.8									
4. 0	Lw Outside Barrier		80.2	57	63	69	75	77	73	70	65
7.	No. of Same Barrier Paths =	2		3	3	3	3	3	3	3	3
8.	Distance (Loss) metre =	35		39	39	39	39	39	39	39	39
	Screen Wall Loss (eff. H=)	1.4		6	6	7	9	11	14	17	20
	Lp Contribution at Receptor =		32.5	15.5	20.9	25.8	30.1	29.4	23.2	16.5	7.5
	(A weighted level =)			-10.7	4.8	17.2	26.9	29.4	24.4	17.5	6.4
Barrier 4. 15.01 Windows (NW	Wintec aluminium awning window, 4 mm glass, Q lon seals			Octave Band Centre Frequencies - Hz							
			dBA	63	125	250	500	1000	2000	4000	8000
Dist Source to Barrier	Direct Lp Inside Barrier		70.6	47	53	59	65	67	64	60	56
	Comb'd Lp Inside Barrier		78.0	56	62	67	73	74	71	68	63
No: Dist.	Trial Combined Lw Inside Barrier		78.0	56	62	67	73	74	71	68	63
1. 0	Effective Reverb Lp Inside Barrier		78.0	56	62	67	73	74	71	68	63
2. 2	Barrier Sound Trans. Loss	Rw =	27	20	18	21	26	26	29	28	35
3. 0	Area of Barrier, m^2 =	1.0									
4. 0	Lw Outside Barrier		47.4	32	40	42	44	44	38	36	24
7.	No. of Same Barrier Paths =	1		0	0	0	0	0	0	0	0
8.	Distance (Loss) metre =	35		39	39	39	39	39	39	39	39
	Screen Wall Loss (eff. H=)	1.4		6	6	7	9	11	14	17	20
	Ground Absorption =										
	Lp Contribution at Receptor =		-2.6	-13.1	-5.6	-4.5	-4.4	-5.8	-15.0	-20.4	-36.4
	(A weighted level =)			-39.3	-21.7	-13.1	-7.6	-5.8	-13.8	-19.4	-37.5
ADD OUTSIDE Lp CONTRIBUTIONS			dBA	63	125	250	500	1000	2000	4000	8000
Total Lp Contribution from ROOM =			33	16	21	26	30	30	23	17	8
(A weighted level =)				-9.8	5.2	17.5	27.1	29.6	24.6	18.1	9.6
Noise Level Criterion =			39	dBA							

ROOM NOISE EMISSION COMPUTATION (ROOMOUT.XLS) Version 7.00

DAY DESIGN PTY LTD
Engineer: SG/BL
Project No: 7460-1
Date: 5-May-2022
Atmosphere:
RH% 90.0

Client . . . . . Boskovitz Lawyers
Project Title. . . . . 26 Beattie Ave, Denistone East
Room Description . . . . Indoor_2
Receptor Location. . . . R4
Noise Criterion . . . . . 39 dBA

Lw of NOISE SOURCES INSIDE ROOM	Number	Duration	dBA	63	125	250	500	1000	2000	4000	8000
				NOISE LEVELS - dB (re: 1 picowatt)							
1. 0-2	0	900	0	0	0	0	0	0	0	0	0
2. 2-3	10	900	85	61	67	73	79	81	78	74	70
3. 3-5	0	900	0	0	0	0	0	0	0	0	0
TOTAL Lw IN ROOM =	10.0		85	61	67	73	79	81	78	74	70

ROOM ABSORPTION, Length = 7.4 Width= 7.0 m, Height = 2.8 metres = 145 m^3
Total Surface Area = 184 Square Metres

20.1				Ave Absorption Co=efficients							
Ave Absorption Coefficient =	BEDROOM with pb ceiling, brick walls/cement render and carpet floor			63	125	250	500	1000	2000	4000	8000
				0.08	0.08	0.09	0.10	0.12	0.15	0.11	0.15
Absorption =				15	15	17	18	22	28	20	28
Reverberant Lp Inside Room =			77	55	61	66	72	74	70	67	62
Barrier 1. 0.00 Door (SW) Hir	Open Window/Door			Octave Band Centre Frequencies - Hz							
			dBA	63	125	250	500	1000	2000	4000	8000
	Direct Lp Inside Barrier	Input	70.6	47	53	59	65	67	64	60	56
	Comb'd Lp Inside Barrier		78.0	56	62	67	73	74	71	68	63
No: Dist.	Trial Combined Lw Inside Barrier		81.3	59	65	70	76	78	74	71	66
1. 0	Effective Reverb Lp Inside Barrier		78.0	56	62	67	73	74	71	68	63
2. 2	Barrier Sound Trans. Loss	Rw = 0		0	0	0	0	0	0	0	0
3. 0	Area of Barrier, m^2 =	2									
4. 0	Lw Outside Barrier		77.7	55	61	67	73	74	71	67	63
7.	No. of Same Barrier Paths =	1		0	0	0	0	0	0	0	0
8.	Distance Loss Distance (m) =	34		39	39	39	39	39	39	39	39
	Screen Wall Loss (eff. H=)	0.7		5	5	6	7	8	10	13	16
	Lp Contribution at Receptor =		22.3	3.0	8.7	14.0	19.1	19.4	13.9	7.6	-1.2
	(A weighted level =)			-23.2	-7.4	5.4	15.9	19.4	15.1	8.6	-2.3
Barrier 2. 12.01 Windows (SW)	Aluminium sliding window, 3 mm glass, mohair seals			Octave Band Centre Frequencies - Hz							
			dBA	63	125	250	500	1000	2000	4000	8000
Dist Source to Barrier	Direct Lp Inside Barrier		70.6	47	53	59	65	67	64	60	56
	Comb'd Lp Inside Barrier		78.0	56	62	67	73	74	71	68	63
No: Dist.	Trial Combined Lw Inside Barrier		78.0	56	62	67	73	74	71	68	63
1. 0	Effective Reverb Lp Inside Barrier		78.0	56	62	67	73	74	71	68	63
2. 2	Barrier Sound Trans. Loss	Rw = 24		13	15	20	21	22	26	25	25
3. 0	Area of Barrier, m^2 =	1.0									
4. 0	Lw Outside Barrier		51.2	39	43	43	48	48	42	39	34
7.	No. of Same Barrier Paths =	1		0	0	0	0	0	0	0	0
8.	Distance (Loss) metre =	34		39	39	39	39	39	39	39	39
	Screen Wall Loss (eff. H=)	0.5		5	5	6	6	7	8	10	13
	Lp Contribution at Receptor =		-2.5	-13.3	-9.3	-9.3	-4.8	-5.1	-13.3	-18.7	-27.0
	(A weighted level =)			-39.5	-25.4	-17.9	-8.0	-5.1	-12.1	-17.7	-28.1
Barrier 3. 0.00 Doors (NW) Sl	Open Window/Door			Octave Band Centre Frequencies - Hz							
			dBA	63	125	250	500	1000	2000	4000	8000
Dist Source to Barrier	Direct Lp Inside Barrier		70.6	47	53	59	65	67	64	60	56
	Comb'd Lp Inside Barrier		78.0	56	62	67	73	74	71	68	63
No: Dist.	Trial Combined Lw Inside Barrier		83.8	61	67	73	79	80	77	74	69
1. 0	Effective Reverb Lp Inside Barrier		78.0	55	61	67	73	74	71	68	63
2. 2	Barrier Sound Trans. Loss	Rw = 0		0	0	0	0	0	0	0	0
3. 0	Area of Barrier, m^2 =	3.8									
4. 0	Lw Outside Barrier		80.2	57	63	69	75	77	73	70	65
7.	No. of Same Barrier Paths =	2		3	3	3	3	3	3	3	3
8.	Distance (Loss) metre =	34		39	39	39	39	39	39	39	39
	Screen Wall Loss (eff. H=)	0.5		5	5	6	6	7	8	10	13
	Lp Contribution at Receptor =		37.1	16.3	22.2	27.9	33.4	34.1	29.2	23.4	14.8
	(A weighted level =)			-9.9	6.1	19.3	30.2	34.1	30.4	24.4	13.7
Barrier 4. 15.01 Windows (NW	Wintec aluminium awning window, 4 mm glass, Q lon seals			Octave Band Centre Frequencies - Hz							
			dBA	63	125	250	500	1000	2000	4000	8000
Dist Source to Barrier	Direct Lp Inside Barrier		70.6	47	53	59	65	67	64	60	56
	Comb'd Lp Inside Barrier		78.0	56	62	67	73	74	71	68	63
No: Dist.	Trial Combined Lw Inside Barrier		78.0	56	62	67	73	74	71	68	63
1. 0	Effective Reverb Lp Inside Barrier		78.0	56	62	67	73	74	71	68	63
2. 2	Barrier Sound Trans. Loss	Rw = 27		20	18	21	26	26	29	28	35
3. 0	Area of Barrier, m^2 =	1.0									
4. 0	Lw Outside Barrier		47.4	32	40	42	44	44	38	36	24
7.	No. of Same Barrier Paths =	1		0	0	0	0	0	0	0	0
8.	Distance (Loss) metre =	34		39	39	39	39	39	39	39	39
	Screen Wall Loss (eff. H=)	0.5		5	5	6	6	7	8	10	13
	Ground Absorption =										
	Lp Contribution at Receptor =		1.7	-12.3	-4.3	-2.4	-1.1	-1.1	-8.9	-13.5	-29.0
	(A weighted level =)			-38.5	-20.4	-11.0	-4.3	-1.1	-7.7	-12.5	-30.1
ADD OUTSIDE Lp CONTRIBUTIONS			dBA	63	125	250	500	1000	2000	4000	8000
Total Lp Contribution from ROOM =			37	17	22	28	34	34	29	24	15
(A weighted level =)				-9.1	6.4	19.5	30.4	34.3	30.5	24.6	14.6
Noise Level Criterion =			39	dBA							

ROOM NOISE EMISSION COMPUTATION (ROOMOUT.XLS) Version 7.00

DAY DESIGN PTY LTD
Engineer: SG/BL
Project No: 7460-1
Date: 5-May-2022
Atmosphere:
RH% 90.0

Client . . . . . Boskovitz Lawyers
Project Title. . . . . 26 Beattie Ave, Denistone East
Room Description . . . . Indoor_3
Receptor Location. . . . R1A
Noise Criterion . . . . . 39 dBA

Lw of NOISE SOURCES INSIDE ROOM	Number	Duration	dBA	63	125	250	500	1000	2000	4000	8000
				NOISE LEVELS - dB (re: 1 picowatt)							
1. 0-2	0	900	0	0	0	0	0	0	0	0	0
2. 2-3	0	900	0	0	0	0	0	0	0	0	0
3. 3-5	30	900	91	69	75	80	86	88	85	81	77
TOTAL Lw IN ROOM =	30.0		91	69	75	80	86	88	85	81	77

ROOM ABSORPTION, Length = 16.0 Width= 6.2 m, Height = 2.8 metres = 278 m^3
Total Surface Area = 323 Square Metres

20.1				Ave Absorption Co=efficients							
				63	125	250	500	1000	2000	4000	8000
Ave Absorption Coefficicent =	BEDROOM with pb ceiling, brick walls/cement render and carpet floor			0.08	0.08	0.09	0.10	0.12	0.15	0.11	0.15
Absorption =				26	26	29	32	39	48	35	48
Reverberant Lp Inside Room =			81	60	66	71	77	78	74	71	66
Barrier 1. 15.01 Windows (SW)	Wintec aluminium awning window, 4 mm glass, Q lon seals		dBA	Octave Band Centre Frequencies - Hz 63	125	250	500	1000	2000	4000	8000
	Direct Lp Inside Barrier	Input	77.4	55	61	66	72	74	71	67	63
	Comb'd Lp Inside Barrier		82.9	61	67	72	78	79	76	73	68
No: Dist.	Trial Combined Lw Inside Barrier		86.7	65	71	76	82	83	79	76	71
1. 0	Effective Reverb Lp Inside Barrier		82.9	61	67	72	78	79	76	73	68
2. 0	Barrier Sound Trans. Loss	Rw =	27	20	18	21	26	26	29	28	35
3. 2	Area of Barrier, m^2 =	2									
4. 0	Lw Outside Barrier		56.9	42	50	51	53	54	48	45	34
6.	Safety Factor =	0		0	0	0	0	0	0	0	0
7.	No. of Same Barrier Paths =	1		0	0	0	0	0	0	0	0
8.	Distance Loss Distance (m) =	17		33	33	33	33	33	33	33	33
9.	Air Absorption							0	0	0	1
	Screen Wall Loss (eff. H=)	-0.7		5	4	4	3	1	0	0	0
	Lp Contribution at Receptor =		21.6	3.1	11.5	13.3	16.1	18.7	13.6	11.1	-1.0
	(A weighted level =)			-23.1	-4.6	4.7	12.9	18.7	14.8	12.1	-2.1
Barrier 2. 15.01 Window (NW)	Wintec aluminium awning window, 4 mm glass, Q lon seals		dBA	Octave Band Centre Frequencies - Hz 63	125	250	500	1000	2000	4000	8000
Dist Source to Barrier	Direct Lp Inside Barrier		77.4	55	61	66	72	74	71	67	63
	Comb'd Lp Inside Barrier		82.9	61	67	72	78	79	76	73	68
No: Dist.	Trial Combined Lw Inside Barrier		62.9	41	47	52	58	59	56	53	48
1. 0	Effective Reverb Lp Inside Barrier		82.9	61	67	72	78	79	76	73	68
2. 0	Barrier Sound Trans. Loss	Rw =	27	20	18	21	26	26	29	28	35
3. 2	Area of Barrier, m^2 =	0									
4. 0	Lw Outside Barrier		33.1	18	26	27	29	30	24	22	10
6.	Safety Factor =	0		0	0	0	0	0	0	0	0
7.	No. of Same Barrier Paths =	1		0	0	0	0	0	0	0	0
8.	Distance (Loss) metre =	17		33	33	33	33	33	33	33	33
9.	Air Absorption							0	0	0	1
	Screen Wall Loss (eff. H=)										
	Lp Contribution at Receptor =		0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
	(A weighted level =)			-26.2	-16.1	-8.6	-3.2	0.0	1.2	1.0	-1.1
Barrier 3. 15.01 Window (NE)	Wintec aluminium awning window, 4 mm glass, Q lon seals		dBA	Octave Band Centre Frequencies - Hz 63	125	250	500	1000	2000	4000	8000
Dist Source to Barrier	Direct Lp Inside Barrier		77.4	55	61	66	72	74	71	67	63
	Comb'd Lp Inside Barrier		82.9	61	67	72	78	79	76	73	68
No: Dist.	Trial Combined Lw Inside Barrier		52.9	31	37	42	48	49	46	43	38
1. 0	Effective Reverb Lp Inside Barrier		82.9	61	67	72	78	79	76	73	68
2. 0	Barrier Sound Trans. Loss	Rw =	27	20	18	21	26	26	29	28	35
3. 2	Area of Barrier, m^2 =	0									
4. 0	Lw Outside Barrier		23.1	8	16	17	19	20	14	12	0
6.	Safety Factor =	0		0	0	0	0	0	0	0	0
7.	No. of Same Barrier Paths =	1		0	0	0	0	0	0	0	0
8.	Distance (Loss) metre =	17		33	33	33	33	33	33	33	33
9.	Air Absorption							0	0	0	1
	Screen Wall Loss (eff. H=)										
	Lp Contribution at Receptor =		0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
	(A weighted level =)			-26.2	-16.1	-8.6	-3.2	0.0	1.2	1.0	-1.1
Barrier 4. 15.01 Skylight	Wintec aluminium awning window, 4 mm glass, Q lon seals		dBA	Octave Band Centre Frequencies - Hz 63	125	250	500	1000	2000	4000	8000
Dist Source to Barrier	Direct Lp Inside Barrier		77.4	55	61	66	72	74	71	67	63
	Comb'd Lp Inside Barrier		82.9	61	67	72	78	79	76	73	68
No: Dist.	Trial Combined Lw Inside Barrier		84.4	63	69	74	79	81	77	74	69
1. 0	Effective Reverb Lp Inside Barrier		82.9	61	67	72	78	79	76	73	68
2. 0	Barrier Sound Trans. Loss	Rw =	27	20	18	21	26	26	29	28	35
3. 2	Area of Barrier, m^2 =	1.4									
4. 0	Lw Outside Barrier		54.7	40	48	49	51	52	46	43	32
6.	Safety Factor =	0		0	0	0	0	0	0	0	0
7.	No. of Same Barrier Paths =	3		5	5	5	5	5	5	5	5
8.	Distance (Loss) metre =	19		34	34	34	34	34	34	34	34
9.	Air Absorption							0	0	0	1
	Screen Wall Loss (eff. H=)	2.7		9	11	13	16	19	22	24	24
	Ground Absorption =										
	Lp Contribution at Receptor =		4.3	-0.7	5.2	3.8	2.7	0.7	-8.6	-12.8	-25.0
	(A weighted level =)			-26.9	-10.9	-4.8	-0.5	0.7	-7.4	-11.8	-26.1
ADD OUTSIDE Lp CONTRIBUTIONS			dBA	63	125	250	500	1000	2000	4000	8000
Total Lp Contribution from ROOM =			22	8	13	14	17	19	14	12	6
(A weighted level =)				-15.8	-2.1	6.4	13.8	19.2	16.1	14.2	8.3
Noise Level Criterion =			39	dBA							

ROOM NOISE EMISSION COMPUTATION (ROOMOUT.XLS) Version 7.00

DAY DESIGN PTY LTD
Engineer: SG/BL
Project No: 7460-1
Date: 5-May-2022
Atmosphere:
RH% 90.0

Client . . . . . Boskovitz Lawyers
Project Title. . . . . 26 Beattie Ave, Denistone East
Room Description . . . . Indoor_3
Receptor Location. . . . R1B
Noise Criterion . . . . . 39 dBA

Lw of NOISE SOURCES INSIDE ROOM	Number	Duration	dBA	NOISE LEVELS - dB (re: 1 picowatt) 63	125	250	500	1000	2000	4000	8000
1. 0-2	0	900	0	0	0	0	0	0	0	0	0
2. 2-3	0	900	0	0	0	0	0	0	0	0	0
3. 3-5	30	900	91	69	75	80	86	88	85	81	77
TOTAL Lw IN ROOM =	30.0		91	69	75	80	86	88	85	81	77

ROOM ABSORPTION, Length = 16.0 Width= 6.2 m, Height = 2.8 metres = 278 m^3
Total Surface Area = 323 Square Metres

20.1				Ave Absorption Co=efficients 63	125	250	500	1000	2000	4000	8000
Ave Absorption Coefficicent =	BEDROOM with pb ceiling, brick walls/cement render and carpet floor			0.08	0.08	0.09	0.10	0.12	0.15	0.11	0.15
Absorption =				26	26	29	32	39	48	35	48
Reverberant Lp Inside Room =			81	60	66	71	77	78	74	71	66

Barrier 1. 15.01 Windows (SW)	Wintec aluminium awning window, 4 mm glass, Q lon seals		dBA	Octave Band Centre Frequencies - Hz 63	125	250	500	1000	2000	4000	8000
	Direct Lp Inside Barrier	Input	73.9	51	57	62	68	70	67	63	59
	Comb'd Lp Inside Barrier		82.1	61	67	71	77	79	75	72	67
No: Dist.	Trial Combined Lw Inside Barrier		85.9	65	71	75	81	82	79	76	71
1. 0	Effective Reverb Lp Inside Barrier		82.1	61	67	71	77	79	75	72	67
2. 0	Barrier Sound Trans. Loss	Rw =	27	20	18	21	26	26	29	28	35
3. 3	Area of Barrier, m^2 =	2									
4. 0	Lw Outside Barrier		55.0	40	48	49	51	52	46	44	32
6.	Safety Factor =	0		0	0	0	0	0	0	0	0
7.	No. of Same Barrier Paths =	1		0	0	0	0	0	0	0	0
8.	Distance Loss Distance (m) =	12		30	30	30	30	30	30	30	30
9.	Air Absorption							0	0	0	1
	Screen Wall Loss (eff. H=)	-0.1		5	5	5	5	5	5	4	3
	Lp Contribution at Receptor =		20.6	5.6	13.7	14.9	16.7	17.7	11.4	9.6	-1.8
	(A weighted level =)			-20.6	-2.4	6.3	13.5	17.7	12.6	10.6	-2.9

Barrier 2. 15.01 Window (NW)	Wintec aluminium awning window, 4 mm glass, Q lon seals		dBA	Octave Band Centre Frequencies - Hz 63	125	250	500	1000	2000	4000	8000
Dist Source to	Direct Lp Inside Barrier		73.9	51	57	62	68	70	67	63	59
Barrier	Comb'd Lp Inside Barrier		82.1	61	67	71	77	79	75	72	67
No: Dist.	Trial Combined Lw Inside Barrier		82.1	61	67	71	77	79	75	72	67
1. 0	Effective Reverb Lp Inside Barrier		82.1	61	67	71	77	79	75	72	67
2. 0	Barrier Sound Trans. Loss	Rw =	27	20	18	21	26	26	29	28	35
3. 3	Area of Barrier, m^2 =	1									
4. 0	Lw Outside Barrier		51.2	36	44	46	47	48	42	40	28
6.	Safety Factor =	0		0	0	0	0	0	0	0	0
7.	No. of Same Barrier Paths =	1		0	0	0	0	0	0	0	0
8.	Distance (Loss) metre =	12		30	30	30	30	30	30	30	30
9.	Air Absorption							0	0	0	1
	Screen Wall Loss (eff. H=)										
	Lp Contribution at Receptor =		13.6	-1.2	6.9	8.0	9.8	10.7	4.2	2.0	-10.1
	(A weighted level =)			-27.4	-9.2	-0.6	6.6	10.7	5.4	3.0	-11.2

Barrier 3. 15.01 Window (NE)	Wintec aluminium awning window, 4 mm glass, Q lon seals		dBA	Octave Band Centre Frequencies - Hz 63	125	250	500	1000	2000	4000	8000
Dist Source to	Direct Lp Inside Barrier		73.9	51	57	62	68	70	67	63	59
Barrier	Comb'd Lp Inside Barrier		82.1	61	67	71	77	79	75	72	67
No: Dist.	Trial Combined Lw Inside Barrier		52.1	31	37	41	47	49	45	42	37
1. 0	Effective Reverb Lp Inside Barrier		82.1	61	67	71	77	79	75	72	67
2. 0	Barrier Sound Trans. Loss	Rw =	27	20	18	21	26	26	29	28	35
3. 3	Area of Barrier, m^2 =	0									
4. 0	Lw Outside Barrier		21.2	6	14	16	17	18	12	10	-2
6.	Safety Factor =	0		0	0	0	0	0	0	0	0
7.	No. of Same Barrier Paths =	1		0	0	0	0	0	0	0	0
8.	Distance (Loss) metre =	12		30	30	30	30	30	30	30	30
9.	Air Absorption							0	0	0	1
	Screen Wall Loss (eff. H=)										
	Lp Contribution at Receptor =		0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
	(A weighted level =)			-26.2	-16.1	-8.6	-3.2	0.0	1.2	1.0	-1.1

Barrier 4. 0.00 Skylight	Open Window/Door		dBA	Octave Band Centre Frequencies - Hz 63	125	250	500	1000	2000	4000	8000
Dist Source to	Direct Lp Inside Barrier		73.9	51	57	62	68	70	67	63	59
Barrier	Comb'd Lp Inside Barrier		82.1	61	67	71	77	79	75	72	67
No: Dist.	Trial Combined Lw Inside Barrier		83.7	62	68	73	79	80	76	74	68
1. 0	Effective Reverb Lp Inside Barrier		82.1	61	67	71	77	79	75	72	67
2. 0	Barrier Sound Trans. Loss	Rw =	0	0	0	0	0	0	0	0	0
3. 3	Area of Barrier, m^2 =	1.4									
4. 0	Lw Outside Barrier		79.7	58	64	69	75	76	73	69	65
6.	Safety Factor =	0		0	0	0	0	0	0	0	0
7.	No. of Same Barrier Paths =	3		5	5	5	5	5	5	5	5
8.	Distance (Loss) metre =	13		30	30	30	30	30	30	30	30
9.	Air Absorption							0	0	0	1
	Screen Wall Loss (eff. H=)	2.1		8	10	13	15	18	21	24	24
	Ground Absorption =										
	Lp Contribution at Receptor =		32.5	21.4	25.4	27.5	30.6	29.2	22.6	16.7	11.5
	(A weighted level =)			-4.8	9.3	18.9	27.4	29.2	23.8	17.7	10.4

ADD OUTSIDE Lp CONTRIBUTIONS	dBA	63	125	250	500	1000	2000	4000	8000
Total Lp Contribution from ROOM =	33	22	26	28	31	30	23	18	12
(A weighted level =)		-4.5	9.7	19.2	27.6	29.5	24.3	19.1	12.3
Noise Level Criterion =	39	dBA							

ROOM NOISE EMISSION COMPUTATION (ROOMOUT.XLS) Version 7.00

DAY DESIGN PTY LTD
Engineer: SG/BL
Project No: 7460-1
Date: 5-May-2022
Atmosphere:
RH% 90.0

Client . . . . . Boskovitz Lawyers
Project Title. . . . . 26 Beattie Ave, Denistone East
Room Description . . . . Indoor_3
Receptor Location. . . . R1C
Noise Criterion . . . . . 39 dBA

Lw of NOISE SOURCES INSIDE ROOM	Number	Duration	dBA	63	125	250	500	1000	2000	4000	8000
				NOISE LEVELS - dB (re: 1 picowatt)							
1. 0-2	0	900	0	0	0	0	0	0	0	0	0
2. 2-3	0	900	0	0	0	0	0	0	0	0	0
3. 3-5	30	900	91	69	75	80	86	88	85	81	77
TOTAL Lw IN ROOM =	30.0		91	69	75	80	86	88	85	81	77

ROOM ABSORPTION, Length = 16.0 Width= 6.2 m, Height = 2.8 metres = 278 m^3
Total Surface Area = 323 Square Metres

20.1				63	125	250	500	1000	2000	4000	8000
Ave Absorption Coefficicent =	BEDROOM with pb ceiling, brick walls/cement render and carpet floor			Ave Absorption Co-efficients							
	Absorption =			0.08	0.08	0.09	0.10	0.12	0.15	0.11	0.15
	Reverberant Lp Inside Room =		81	26	26	29	32	39	48	35	48
				60	66	71	77	78	74	71	66

Barrier 1. 15.01 Windows (SW)	Wintec aluminium awning window, 4 mm glass, Q lon seals			Octave Band Centre Frequencies - Hz							
			dBA	63	125	250	500	1000	2000	4000	8000
	Direct Lp Inside Barrier	Input	77.4	55	61	66	72	74	71	67	63
	Comb'd Lp Inside Barrier		82.9	61	67	72	78	79	76	73	68
No: Dist.	Trial Combined Lw Inside Barrier		86.7	65	71	76	82	83	79	76	71
1. 0	Effective Reverb Lp Inside Barrier		82.9	61	67	72	78	79	76	73	68
2. 0	Barrier Sound Trans. Loss	Rw = 27		20	18	21	26	26	29	28	35
3. 2	Area of Barrier, m^2 =	2									
4. 0	Lw Outside Barrier		56.9	42	50	51	53	54	48	45	34
6.	Safety Factor =	0		0	0	0	0	0	0	0	0
7.	No. of Same Barrier Paths =	1		0	0	0	0	0	0	0	0
8.	Distance Loss Distance (m) =	13		30	30	30	30	30	30	30	30
9.	Air Absorption							0	0	0	1
	Screen Wall Loss (eff. H=)	-0.1		5	5	5	5	5	4	4	3
	Lp Contribution at Receptor =		20.5	5.1	13.2	14.5	16.3	17.5	11.5	9.5	-1.6
	(A weighted level =)			-21.1	-2.9	5.9	13.1	17.5	12.7	10.5	-2.7

Barrier 2. 15.01 Window (NW)	Wintec aluminium awning window, 4 mm glass, Q lon seals			Octave Band Centre Frequencies - Hz							
			dBA	63	125	250	500	1000	2000	4000	8000
Dist Source to Barrier	Direct Lp Inside Barrier		77.4	55	61	66	72	74	71	67	63
	Comb'd Lp Inside Barrier		82.9	61	67	72	78	79	76	73	68
No: Dist.	Trial Combined Lw Inside Barrier		82.9	61	67	72	78	79	76	73	68
1. 0	Effective Reverb Lp Inside Barrier		82.9	61	67	72	78	79	76	73	68
2. 0	Barrier Sound Trans. Loss	Rw = 27		20	18	21	26	26	29	28	35
3. 2	Area of Barrier, m^2 =	1									
4. 0	Lw Outside Barrier		53.1	38	46	47	49	50	44	42	30
6.	Safety Factor =	0		0	0	0	0	0	0	0	0
7.	No. of Same Barrier Paths =	1		0	0	0	0	0	0	0	0
8.	Distance (Loss) metre =	13		30	30	30	30	30	30	30	30
9.	Air Absorption							0	0	0	1
	Screen Wall Loss (eff. H=)										
	Lp Contribution at Receptor =		14.8	-0.2	7.9	9.1	10.9	11.9	5.7	3.2	-8.7
	(A weighted level =)			-26.4	-8.2	0.5	7.7	11.9	6.9	4.2	-9.8

Barrier 3. 15.01 Window (NE)	Wintec aluminium awning window, 4 mm glass, Q lon seals			Octave Band Centre Frequencies - Hz							
			dBA	63	125	250	500	1000	2000	4000	8000
Dist Source to Barrier	Direct Lp Inside Barrier		77.4	55	61	66	72	74	71	67	63
	Comb'd Lp Inside Barrier		82.9	61	67	72	78	79	76	73	68
No: Dist.	Trial Combined Lw Inside Barrier		52.9	31	37	42	48	49	46	43	38
1. 0	Effective Reverb Lp Inside Barrier		82.9	61	67	72	78	79	76	73	68
2. 0	Barrier Sound Trans. Loss	Rw = 27		20	18	21	26	26	29	28	35
3. 2	Area of Barrier, m^2 =	0									
4. 0	Lw Outside Barrier		23.1	8	16	17	19	20	14	12	0
6.	Safety Factor =	0		0	0	0	0	0	0	0	0
7.	No. of Same Barrier Paths =	1		0	0	0	0	0	0	0	0
8.	Distance (Loss) metre =	13		30	30	30	30	30	30	30	30
9.	Air Absorption							0	0	0	1
	Screen Wall Loss (eff. H=)										
	Lp Contribution at Receptor =		0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
	(A weighted level =)			-26.2	-16.1	-8.6	-3.2	0.0	1.2	1.0	-1.1

Barrier 4. 15.01 Skylight	Wintec aluminium awning window, 4 mm glass, Q lon seals			Octave Band Centre Frequencies - Hz							
			dBA	63	125	250	500	1000	2000	4000	8000
Dist Source to Barrier	Direct Lp Inside Barrier		77.4	55	61	66	72	74	71	67	63
	Comb'd Lp Inside Barrier		82.9	61	67	72	78	79	76	73	68
No: Dist.	Trial Combined Lw Inside Barrier		84.4	63	69	74	79	81	77	74	69
1. 0	Effective Reverb Lp Inside Barrier		82.9	61	67	72	78	79	76	73	68
2. 0	Barrier Sound Trans. Loss	Rw = 27		20	18	21	26	26	29	28	35
3. 2	Area of Barrier, m^2 =	1.4									
4. 0	Lw Outside Barrier		54.7	40	48	49	51	52	46	43	32
6.	Safety Factor =	0		0	0	0	0	0	0	0	0
7.	No. of Same Barrier Paths =	3		5	5	5	5	5	5	5	5
8.	Distance (Loss) metre =	14		31	31	31	31	31	31	31	31
9.	Air Absorption							0	0	0	1
	Screen Wall Loss (eff. H=)	1.6		7	8	11	13	16	19	22	24
	Ground Absorption =										
	Lp Contribution at Receptor =		10.1	3.5	10.1	9.3	8.4	6.5	-2.7	-8.2	-22.1
	(A weighted level =)			-22.7	-6.0	0.7	5.2	6.5	-1.5	-7.2	-23.2

ADD OUTSIDE Lp CONTRIBUTIONS		dBA	63	125	250	500	1000	2000	4000	8000
Total Lp Contribution from ROOM =		22	9	16	17	18	19	13	11	5
(A weighted level =)			-14.9	0.4	8.5	15.2	19.2	15.2	13.6	7.8
Noise Level Criterion =		39	dBA							

ROOM NOISE EMISSION COMPUTATION (ROOMOUT.XLS) Version 7.00

BAY DESIGN PTY LTD
Engineer: SG/BL
Project No: 7460-1
Date: 5-May-2022
Atmosphere:
RH% 90.0

Client . . . . . Boskovitz Lawyers
Project Title. . . . . 26 Beattie Ave, Denistone East
Room Description . . . . Indoor_3
Receptor Location. . . . R1D
Noise Criterion . . . . . 39 dBA

Lw of NOISE SOURCES INSIDE ROOM	Number	Duration	dBA	NOISE LEVELS - dB (re: 1 picowatt) 63	125	250	500	1000	2000	4000	8000
1. 0-2	0	900	0	0	0	0	0	0	0	0	0
2. 2-3	0	900	0	0	0	0	0	0	0	0	0
3. 3-5	30	900	91	69	75	80	86	88	85	81	77
TOTAL Lw IN ROOM =	30.0		91	69	75	80	86	88	85	81	77

ROOM ABSORPTION, Length = 16.0 Width= 6.2 m, Height = 2.8 metres = 278 m^3
Total Surface Area = 323 Square Metres

20.1				Ave Absorption Co-efficients 63	125	250	500	1000	2000	4000	8000
Ave Absorption Coefficient =	BEDROOM with pb ceiling, brick walls/cement render and carpet floor			0.08	0.08	0.09	0.10	0.12	0.15	0.11	0.15
Absorption =				26	26	29	32	39	48	35	48
Reverberant Lp Inside Room =			81	60	66	71	77	78	74	71	66
Barrier 1. 15.01 Windows (SW)	Wintec aluminium awning window, 4 mm glass, Q lon seals		dBA	Octave Band Centre Frequencies - Hz 63	125	250	500	1000	2000	4000	8000
	Direct Lp Inside Barrier	Input	77.4	55	61	66	72	74	71	67	63
	Comb'd Lp Inside Barrier		82.9	61	67	72	78	79	76	73	68
No: Dist.	Trial Combined Lw Inside Barrier		86.7	65	71	76	82	83	79	76	71
1. 0	Effective Reverb Lp Inside Barrier		82.9	61	67	72	78	79	76	73	68
2. 0	Barrier Sound Trans. Loss	Rw =	27	20	18	21	26	26	29	28	35
3. 2	Area of Barrier, m^2 =	2									
4. 0	Lw Outside Barrier		56.9	42	50	51	53	54	48	45	34
6.	Safety Factor =	0		0	0	0	0	0	0	0	0
7.	No. of Same Barrier Paths =	1		0	0	0	0	0	0	0	0
8.	Distance Loss Distance (m) =	25		36	36	36	36	36	36	36	36
9.	Air Absorption							0	0	0	1
	Screen Wall Loss (eff. H=)	0.5		5	5	6	6	7	9	11	14
	Lp Contribution at Receptor =		11.9	-0.8	7.1	8.0	9.2	9.1	1.1	-3.8	-19.0
	(A weighted level =)			-27.0	-9.0	-0.6	6.0	9.1	2.3	-2.8	-20.1
Barrier 2. 15.01 Window (NW)	Wintec aluminium awning window, 4 mm glass, Q lon seals		dBA	Octave Band Centre Frequencies - Hz 63	125	250	500	1000	2000	4000	8000
Dist Source to Barrier	Direct Lp Inside Barrier		77.4	55	61	66	72	74	71	67	63
	Comb'd Lp Inside Barrier		82.9	61	67	72	78	79	76	73	68
No: Dist.	Trial Combined Lw Inside Barrier		82.9	61	67	72	78	79	76	73	68
1. 0	Effective Reverb Lp Inside Barrier		82.9	61	67	72	78	79	76	73	68
2. 0	Barrier Sound Trans. Loss	Rw =	27	20	18	21	26	26	29	28	35
3. 2	Area of Barrier, m^2 =	1									
4. 0	Lw Outside Barrier		53.1	38	46	47	49	50	44	42	30
6.	Safety Factor =	0		0	0	0	0	0	0	0	0
7.	No. of Same Barrier Paths =	1		0	0	0	0	0	0	0	0
8.	Distance (Loss) metre =	25		36	36	36	36	36	36	36	36
9.	Air Absorption							0	0	0	1
	Screen Wall Loss (eff. H=)	0.4		5	5	5	6	7	8	10	13
	Lp Contribution at Receptor =		8.8	-4.5	3.4	4.5	5.8	6.0	-1.6	-6.1	-21.1
	(A weighted level =)			-30.7	-12.7	-4.1	2.6	6.0	-0.4	-5.1	-22.2
Barrier 3. 15.01 Window (NE)	Wintec aluminium awning window, 4 mm glass, Q lon seals		dBA	Octave Band Centre Frequencies - Hz 63	125	250	500	1000	2000	4000	8000
Dist Source to Barrier	Direct Lp Inside Barrier		77.4	55	61	66	72	74	71	67	63
	Comb'd Lp Inside Barrier		82.9	61	67	72	78	79	76	73	68
No: Dist.	Trial Combined Lw Inside Barrier		52.9	31	37	42	48	49	46	43	38
1. 0	Effective Reverb Lp Inside Barrier		82.9	61	67	72	78	79	76	73	68
2. 0	Barrier Sound Trans. Loss	Rw =	27	20	18	21	26	26	29	28	35
3. 2	Area of Barrier, m^2 =	0									
4. 0	Lw Outside Barrier		23.1	8	16	17	19	20	14	12	0
6.	Safety Factor =	0		0	0	0	0	0	0	0	0
7.	No. of Same Barrier Paths =	1		0	0	0	0	0	0	0	0
8.	Distance (Loss) metre =	25		36	36	36	36	36	36	36	36
9.	Air Absorption							0	0	0	1
	Screen Wall Loss (eff. H=)										
	Lp Contribution at Receptor =		0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
	(A weighted level =)			-26.2	-16.1	-8.6	-3.2	0.0	1.2	1.0	-1.1
Barrier 4. 15.01 Skylight	Wintec aluminium awning window, 4 mm glass, Q lon seals		dBA	Octave Band Centre Frequencies - Hz 63	125	250	500	1000	2000	4000	8000
Dist Source to Barrier	Direct Lp Inside Barrier		77.4	55	61	66	72	74	71	67	63
	Comb'd Lp Inside Barrier		82.9	61	67	72	78	79	76	73	68
No: Dist.	Trial Combined Lw Inside Barrier		84.4	63	69	74	79	81	77	74	69
1. 0	Effective Reverb Lp Inside Barrier		82.9	61	67	72	78	79	76	73	68
2. 0	Barrier Sound Trans. Loss	Rw =	27	20	18	21	26	26	29	28	35
3. 2	Area of Barrier, m^2 =	1.4									
4. 0	Lw Outside Barrier		54.7	40	48	49	51	52	46	43	32
6.	Safety Factor =	0		0	0	0	0	0	0	0	0
7.	No. of Same Barrier Paths =	3		5	5	5	5	5	5	5	5
8.	Distance (Loss) metre =	25		36	36	36	36	36	36	36	36
9.	Air Absorption							0	0	0	1
	Screen Wall Loss (eff. H=)	1.9		7	8	10	13	16	19	22	24
	Ground Absorption =										
	Lp Contribution at Receptor =		0.3	-6.4	0.3	-0.5	-1.3	-3.2	-12.5	-18.1	-32.7
	(A weighted level =)			-32.6	-15.8	-9.1	-4.5	-3.2	-11.3	-17.1	-33.8
ADD OUTSIDE Lp CONTRIBUTIONS			dBA	63	125	250	500	1000	2000	4000	8000
Total Lp Contribution from ROOM =			15	5	10	11	12	12	6	4	3
(A weighted level =)				-16.9	-4.2	3.7	9.8	12.9	10.8	9.8	7.4
Noise Level Criterion =			39	dBA							

ROOM NOISE EMISSION COMPUTATION (ROOMOUT.XLS) Version 7.00

DAY DESIGN PTY LTD
Engineer: SG/BL
Project No: 7460-1
Date: 5-May-2022
Atmosphere:
RH% 90.0

Client . . . . . Boskovitz Lawyers
Project Title. . . . . 26 Beattie Ave, Denistone East
Room Description . . . . Indoor_3
Receptor Location. . . . R2C
Noise Criterion . . . . . 39 dBA

Lw of NOISE SOURCES INSIDE ROOM	Number	Duration	dBA	63	125	250	500	1000	2000	4000	8000
				NOISE LEVELS - dB (re: 1 picowatt)							
1. 0-2	0	900	0	0	0	0	0	0	0	0	0
2. 2-3	0	900	0	0	0	0	0	0	0	0	0
3. 3-5	30	900	91	69	75	80	86	88	85	81	77
TOTAL Lw IN ROOM =	30.0		91	69	75	80	86	88	85	81	77

ROOM ABSORPTION, Length = 16.0 Width= 6.2 m, Height = 2.8 metres = 278 m^3
Total Surface Area = 323 Square Metres

20.1				Ave Absorption Coefficients							
				63	125	250	500	1000	2000	4000	8000
Ave Absorption Coefficicent =	BEDROOM with pb ceiling, brick walls/cement render and carpet floor			0.08	0.08	0.09	0.10	0.12	0.15	0.11	0.15
Absorption =				26	26	29	32	39	48	35	48
Reverberant Lp Inside Room =			81	60	66	71	77	78	74	71	66
Barrier 1. 15.01 Windows (SW)	Wintec aluminium awning window, 4 mm glass, Q lon seals		dBA	Octave Band Centre Frequencies - Hz							
				63	125	250	500	1000	2000	4000	8000
	Direct Lp Inside Barrier	Input	77.4	55	61	66	72	74	71	67	63
	Comb'd Lp Inside Barrier		82.9	61	67	72	78	79	76	73	68
No: Dist.	Trial Combined Lw Inside Barrier		62.9	41	47	52	58	59	56	53	48
1. 0	Effective Reverb Lp Inside Barrier		82.9	61	67	72	78	79	76	73	68
2. 0	Barrier Sound Trans. Loss	Rw =	27	20	18	21	26	26	29	28	35
3. 2	Area of Barrier, m^2 =	0									
4. 0	Lw Outside Barrier		33.1	18	26	27	29	30	24	22	10
6.	Safety Factor =	0		0	0	0	0	0	0	0	0
7.	No. of Same Barrier Paths =	1		0	0	0	0	0	0	0	0
8.	Distance Loss Distance (m) =	24		36	36	36	36	36	36	36	36
9.	Air Absorption							0	0	0	1
	Screen Wall Loss (eff. H=)	0.7		6	6	7	9	11	14	17	20
	Lp Contribution at Receptor =		0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
	(A weighted level =)			-26.2	-16.1	-8.6	-3.2	0.0	1.2	1.0	-1.1
Barrier 2. 15.01 Window (NW)	Wintec aluminium awning window, 4 mm glass, Q lon seals		dBA	Octave Band Centre Frequencies - Hz							
				63	125	250	500	1000	2000	4000	8000
Dist Source to Barrier	Direct Lp Inside Barrier		77.4	55	61	66	72	74	71	67	63
	Comb'd Lp Inside Barrier		82.9	61	67	72	78	79	76	73	68
No: Dist.	Trial Combined Lw Inside Barrier		82.9	61	67	72	78	79	76	73	68
1. 0	Effective Reverb Lp Inside Barrier		82.9	61	67	72	78	79	76	73	68
2. 0	Barrier Sound Trans. Loss	Rw =	27	20	18	21	26	26	29	28	35
3. 2	Area of Barrier, m^2 =	1									
4. 0	Lw Outside Barrier		53.1	38	46	47	49	50	44	42	30
6.	Safety Factor =	0		0	0	0	0	0	0	0	0
7.	No. of Same Barrier Paths =	1		0	0	0	0	0	0	0	0
8.	Distance (Loss) metre =	24		36	36	36	36	36	36	36	36
9.	Air Absorption							0	0	0	1
	Screen Wall Loss (eff. H=)	0.6		6	6	7	9	11	14	17	20
	Lp Contribution at Receptor =		6.6	-3.2	4.3	4.6	4.7	3.5	-5.5	-11.0	-26.4
	(A weighted level =)			-29.4	-11.8	-4.0	1.5	3.5	-4.3	-10.0	-27.5
Barrier 3. 15.01 Window (NE)	Wintec aluminium awning window, 4 mm glass, Q lon seals		dBA	Octave Band Centre Frequencies - Hz							
				63	125	250	500	1000	2000	4000	8000
Dist Source to Barrier	Direct Lp Inside Barrier		77.4	55	61	66	72	74	71	67	63
	Comb'd Lp Inside Barrier		82.9	61	67	72	78	79	76	73	68
No: Dist.	Trial Combined Lw Inside Barrier		82.9	61	67	72	78	79	76	73	68
1. 0	Effective Reverb Lp Inside Barrier		82.9	61	67	72	78	79	76	73	68
2. 0	Barrier Sound Trans. Loss	Rw =	27	20	18	21	26	26	29	28	35
3. 2	Area of Barrier, m^2 =	1									
4. 0	Lw Outside Barrier		53.1	38	46	47	49	50	44	42	30
6.	Safety Factor =	0		0	0	0	0	0	0	0	0
7.	No. of Same Barrier Paths =	1		0	0	0	0	0	0	0	0
8.	Distance (Loss) metre =	24		36	36	36	36	36	36	36	36
9.	Air Absorption							0	0	0	1
	Screen Wall Loss (eff. H=)	0.6		6	6	7	9	11	14	17	20
	Lp Contribution at Receptor =		5.1	-4.7	2.8	3.1	3.2	2.0	-7.0	-12.5	-27.9
	(A weighted level =)			-30.9	-13.3	-5.5	0.0	2.0	-5.8	-11.5	-29.0
Barrier 4. 15.01 Skylight	Wintec aluminium awning window, 4 mm glass, Q lon seals		dBA	Octave Band Centre Frequencies - Hz							
				63	125	250	500	1000	2000	4000	8000
Dist Source to Barrier	Direct Lp Inside Barrier		77.4	55	61	66	72	74	71	67	63
	Comb'd Lp Inside Barrier		82.9	61	67	72	78	79	76	73	68
No: Dist.	Trial Combined Lw Inside Barrier		62.9	41	47	52	58	59	56	53	48
1. 0	Effective Reverb Lp Inside Barrier		82.9	61	67	72	78	79	76	73	68
2. 0	Barrier Sound Trans. Loss	Rw =	27	20	18	21	26	26	29	28	35
3. 2	Area of Barrier, m^2 =	0.0									
4. 0	Lw Outside Barrier		33.1	18	26	27	29	30	24	22	10
6.	Safety Factor =	0		0	0	0	0	0	0	0	0
7.	No. of Same Barrier Paths =	3		5	5	5	5	5	5	5	5
8.	Distance (Loss) metre =	31		38	38	38	38	38	38	38	38
9.	Air Absorption							0	0	0	2
	Screen Wall Loss (eff. H=)	2.4		7	9	11	14	17	20	23	24
	Ground Absorption =										
	Lp Contribution at Receptor =		0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
	(A weighted level =)			-26.2	-16.1	-8.6	-3.2	0.0	1.2	1.0	-1.1
ADD OUTSIDE Lp CONTRIBUTIONS			dBA	63	125	250	500	1000	2000	4000	8000
Total Lp Contribution from ROOM =			14	6	9	9	9	8	5	5	5
(A weighted level =)				-16.7	-5.1	2.5	8.0	10.7	10.5	10.1	7.9
Noise Level Criterion =			39	dBA							

ROOM NOISE EMISSION COMPUTATION (ROOMOUT.XLS) Version 7.00

DAY DESIGN PTY LTD
Engineer: SG/BL
Project No: 7460-1
Date: 5-May-2022
Atmosphere:
RH% 90.0

Client . . . . . Boskovitz Lawyers
Project Title. . . . . 26 Beattie Ave, Denistone East
Room Description . . . . Indoor_3
Receptor Location. . . . R3
Noise Criterion . . . . . 39 dBA

Lw of NOISE SOURCES INSIDE ROOM	Number	Duration	dBA	NOISE LEVELS - dB (re: 1 picowatt) 63	125	250	500	1000	2000	4000	8000
1. 0-2	0	900	0	0	0	0	0	0	0	0	0
2. 2-3	0	900	0	0	0	0	0	0	0	0	0
3. 3-5	30	900	91	69	75	80	86	88	85	81	77
TOTAL Lw IN ROOM =	30.0		91	69	75	80	86	88	85	81	77

ROOM ABSORPTION, Length = 16.0 Width= 6.2 m, Height = 2.8 metres = 278 m^3
Total Surface Area = 323 Square Metres

20.1				Ave Absorption Co=efficients 63	125	250	500	1000	2000	4000	8000
Ave Absorption Coefficicent =	BEDROOM with pb ceiling, brick walls/cement render and carpet floor			0.08	0.08	0.09	0.10	0.12	0.15	0.11	0.15
Absorption =				26	26	29	32	39	48	35	48
Reverberant Lp Inside Room =			81	60	66	71	77	78	74	71	66
Barrier 1. 15.01 Windows (SW)	Wintec aluminium awning window, 4 mm glass, Q lon seals		dBA	Octave Band Centre Frequencies - Hz 63	125	250	500	1000	2000	4000	8000
	Direct Lp Inside Barrier	Input	77.4	55	61	66	72	74	71	67	63
	Comb'd Lp Inside Barrier		82.9	61	67	72	78	79	76	73	68
No: Dist.	Trial Combined Lw Inside Barrier		86.7	65	71	76	82	83	79	76	71
1. 0	Effective Reverb Lp Inside Barrier		82.9	61	67	72	78	79	76	73	68
2. 0	Barrier Sound Trans. Loss	Rw =	27	20	18	21	26	26	29	28	35
3. 2	Area of Barrier, m^2 =	2									
4. 0	Lw Outside Barrier		56.9	42	50	51	53	54	48	45	34
6.	Safety Factor =	0		0	0	0	0	0	0	0	0
7.	No. of Same Barrier Paths =	1		0	0	0	0	0	0	0	0
8.	Distance Loss Distance (m) =	38		40	40	40	40	40	40	40	40
9.	Air Absorption							0	0	1	2
	Screen Wall Loss (eff. H=)	0.2		5	5	5	5	5	5	6	7
	Lp Contribution at Receptor =		4.0	-10.7	-2.7	-1.4	0.3	1.2	-5.4	-8.5	-22.2
	(A weighted level =)			-36.9	-18.8	-10.0	-2.9	1.2	-4.2	-7.5	-23.3
Barrier 2. 15.01 Window (NW)	Wintec aluminium awning window, 4 mm glass, Q lon seals		dBA	Octave Band Centre Frequencies - Hz 63	125	250	500	1000	2000	4000	8000
Dist Source to Barrier	Direct Lp Inside Barrier		77.4	55	61	66	72	74	71	67	63
	Comb'd Lp Inside Barrier		82.9	61	67	72	78	79	76	73	68
No: Dist.	Trial Combined Lw Inside Barrier		82.9	61	67	72	78	79	76	73	68
1. 0	Effective Reverb Lp Inside Barrier		82.9	61	67	72	78	79	76	73	68
2. 0	Barrier Sound Trans. Loss	Rw =	27	20	18	21	26	26	29	28	35
3. 2	Area of Barrier, m^2 =	1									
4. 0	Lw Outside Barrier		53.1	38	46	47	49	50	44	42	30
6.	Safety Factor =	0		0	0	0	0	0	0	0	0
7.	No. of Same Barrier Paths =	1		0	0	0	0	0	0	0	0
8.	Distance (Loss) metre =	38		40	40	40	40	40	40	40	40
9.	Air Absorption							0	0	1	2
	Screen Wall Loss (eff. H=)	0.0		5	5	5	5	5	5	5	5
	Lp Contribution at Receptor =		0.4	-14.5	-6.5	-5.2	-3.4	-2.4	-8.7	-11.5	-24.4
	(A weighted level =)			-40.7	-22.6	-13.8	-6.6	-2.4	-7.5	-10.5	-25.5
Barrier 3. 15.01 Window (NE)	Wintec aluminium awning window, 4 mm glass, Q lon seals		dBA	Octave Band Centre Frequencies - Hz 63	125	250	500	1000	2000	4000	8000
Dist Source to Barrier	Direct Lp Inside Barrier		77.4	55	61	66	72	74	71	67	63
	Comb'd Lp Inside Barrier		82.9	61	67	72	78	79	76	73	68
No: Dist.	Trial Combined Lw Inside Barrier		52.9	31	37	42	48	49	46	43	38
1. 0	Effective Reverb Lp Inside Barrier		82.9	61	67	72	78	79	76	73	68
2. 0	Barrier Sound Trans. Loss	Rw =	27	20	18	21	26	26	29	28	35
3. 2	Area of Barrier, m^2 =	0									
4. 0	Lw Outside Barrier		23.1	8	16	17	19	20	14	12	0
6.	Safety Factor =	0		0	0	0	0	0	0	0	0
7.	No. of Same Barrier Paths =	1		0	0	0	0	0	0	0	0
8.	Distance (Loss) metre =	38		40	40	40	40	40	40	40	40
9.	Air Absorption							0	0	1	2
	Screen Wall Loss (eff. H=)										
	Lp Contribution at Receptor =		0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
	(A weighted level =)			-26.2	-16.1	-8.6	-3.2	0.0	1.2	1.0	-1.1
Barrier 4. 15.01 Skylight	Wintec aluminium awning window, 4 mm glass, Q lon seals		dBA	Octave Band Centre Frequencies - Hz 63	125	250	500	1000	2000	4000	8000
Dist Source to Barrier	Direct Lp Inside Barrier		77.4	55	61	66	72	74	71	67	63
	Comb'd Lp Inside Barrier		82.9	61	67	72	78	79	76	73	68
No: Dist.	Trial Combined Lw Inside Barrier		84.4	63	69	74	79	81	77	74	69
1. 0	Effective Reverb Lp Inside Barrier		82.9	61	67	72	78	79	76	73	68
2. 0	Barrier Sound Trans. Loss	Rw =	27	20	18	21	26	26	29	28	35
3. 2	Area of Barrier, m^2 =	1.4									
4. 0	Lw Outside Barrier		54.7	40	48	49	51	52	46	43	32
6.	Safety Factor =	0		0	0	0	0	0	0	0	0
7.	No. of Same Barrier Paths =	3		5	5	5	5	5	5	5	5
8.	Distance (Loss) metre =	39		40	40	40	40	40	40	40	40
9.	Air Absorption							0	0	1	2
	Screen Wall Loss (eff. H=)	0.9		5	5	6	7	8	10	13	15
	Ground Absorption =										
	Lp Contribution at Receptor =		8.5	-3.6	4.2	5.0	6.0	5.7	-2.6	-7.9	-23.7
	(A weighted level =)			-29.8	-11.9	-3.6	2.8	5.7	-1.4	-6.9	-24.8
ADD OUTSIDE Lp CONTRIBUTIONS			dBA	63	125	250	500	1000	2000	4000	8000
Total Lp Contribution from ROOM =			13	4	7	8	9	9	5	4	3
(A weighted level =)				-17.4	-5.9	1.9	7.8	11.0	10.2	9.7	7.4
Noise Level Criterion =			39	dBA							

ROOM NOISE EMISSION COMPUTATION (ROOMOUT.XLS) Version 7.00

DAY DESIGN PTY LTD
Engineer: SG/BL
Project No: 7460-1
Date: 5-May-2022
Atmosphere:
RH% 90.0

Client . . . . . Boskovitz Lawyers
Project Title. . . . . 26 Beattie Ave, Denistone East
Room Description . . . . Indoor_3
Receptor Location. . . . R4
Noise Criterion . . . . . 39 dBA

Lw of NOISE SOURCES INSIDE ROOM	Number	Duration	dBA	NOISE LEVELS - dB (re: 1 picowatt) 63	125	250	500	1000	2000	4000	8000
1. 0-2	0	900	0	0	0	0	0	0	0	0	0
2. 2-3	0	900	0	0	0	0	0	0	0	0	0
3. 3-5	30	900	91	69	75	80	86	88	85	81	77
TOTAL Lw IN ROOM =	30.0		91	69	75	80	86	88	85	81	77

ROOM ABSORPTION, Length = 16.0 Width= 6.2 m, Height = 2.8 metres = 278 m^3
Total Surface Area = 323 Square Metres

20.1				Ave Absorption Co-efficients 63	125	250	500	1000	2000	4000	8000
Ave Absorption Coefficicent =	BEDROOM with pb ceiling, brick walls/cement render and carpet floor			0.08	0.08	0.09	0.10	0.12	0.15	0.11	0.15
Absorption =				26	26	29	32	39	48	35	48
Reverberant Lp Inside Room =			81	60	66	71	77	78	74	71	66
Barrier 1. 15.01 Windows (SW)	Wintec aluminium awning window, 4 mm glass, Q lon seals			Octave Band Centre Frequencies - Hz							
			dBA	63	125	250	500	1000	2000	4000	8000
	Direct Lp Inside Barrier	Input	77.4	55	61	66	72	74	71	67	63
	Comb'd Lp Inside Barrier		82.9	61	67	72	78	79	76	73	68
No: Dist.	Trial Combined Lw Inside Barrier		86.7	65	71	76	82	83	79	76	71
1. 0	Effective Reverb Lp Inside Barrier		82.9	61	67	72	78	79	76	73	68
2. 0	Barrier Sound Trans. Loss	Rw =	27	20	18	21	26	26	29	28	35
3. 2	Area of Barrier, m^2 =	2									
4. 0	Lw Outside Barrier		56.9	42	50	51	53	54	48	45	34
6.	Safety Factor =	0		0	0	0	0	0	0	0	0
7.	No. of Same Barrier Paths =	1		0	0	0	0	0	0	0	0
8.	Distance Loss Distance (m) =	38		40	40	40	40	40	40	40	40
9.	Air Absorption							0	0	1	2
	Screen Wall Loss (eff. H=)	-0.1		5	5	5	5	5	5	5	5
	Lp Contribution at Receptor =		4.3	-10.7	-2.6	-1.4	0.4	1.4	-4.8	-7.5	-20.2
	(A weighted level =)			-36.9	-18.7	-10.0	-2.8	1.4	-3.6	-6.5	-21.3
Barrier 2. 15.01 Window (NW)	Wintec aluminium awning window, 4 mm glass, Q lon seals			Octave Band Centre Frequencies - Hz							
			dBA	63	125	250	500	1000	2000	4000	8000
Dist Source to Barrier	Direct Lp Inside Barrier		77.4	55	61	66	72	74	71	67	63
	Comb'd Lp Inside Barrier		82.9	61	67	72	78	79	76	73	68
No: Dist.	Trial Combined Lw Inside Barrier		82.9	61	67	72	78	79	76	73	68
1. 0	Effective Reverb Lp Inside Barrier		82.9	61	67	72	78	79	76	73	68
2. 0	Barrier Sound Trans. Loss	Rw =	27	20	18	21	26	26	29	28	35
3. 2	Area of Barrier, m^2 =	1									
4. 0	Lw Outside Barrier		53.1	38	46	47	49	50	44	42	30
6.	Safety Factor =	0		0	0	0	0	0	0	0	0
7.	No. of Same Barrier Paths =	1		0	0	0	0	0	0	0	0
8.	Distance (Loss) metre =	38		40	40	40	40	40	40	40	40
9.	Air Absorption							0	0	1	2
	Screen Wall Loss (eff. H=)	-0.1		5	5	5	5	5	5	4	4
	Lp Contribution at Receptor =		0.7	-14.5	-6.4	-5.1	-3.3	-2.2	-8.3	-10.7	-23.0
	(A weighted level =)			-40.7	-22.5	-13.7	-6.5	-2.2	-7.1	-9.7	-24.1
Barrier 3. 15.01 Window (NE)	Wintec aluminium awning window, 4 mm glass, Q lon seals			Octave Band Centre Frequencies - Hz							
			dBA	63	125	250	500	1000	2000	4000	8000
Dist Source to Barrier	Direct Lp Inside Barrier		77.4	55	61	66	72	74	71	67	63
	Comb'd Lp Inside Barrier		82.9	61	67	72	78	79	76	73	68
No: Dist.	Trial Combined Lw Inside Barrier		82.9	61	67	72	78	79	76	73	68
1. 0	Effective Reverb Lp Inside Barrier		82.9	61	67	72	78	79	76	73	68
2. 0	Barrier Sound Trans. Loss	Rw =	27	20	18	21	26	26	29	28	35
3. 2	Area of Barrier, m^2 =	1									
4. 0	Lw Outside Barrier		53.1	38	46	47	49	50	44	42	30
6.	Safety Factor =	0		0	0	0	0	0	0	0	0
7.	No. of Same Barrier Paths =	1		0	0	0	0	0	0	0	0
8.	Distance (Loss) metre =	38		40	40	40	40	40	40	40	40
9.	Air Absorption							0	0	1	2
	Screen Wall Loss (eff. H=)	-0.1		5	5	5	5	5	5	4	4
	Lp Contribution at Receptor =		0.7	-14.5	-6.4	-5.1	-3.3	-2.2	-8.3	-10.7	-23.0
	(A weighted level =)			-40.7	-22.5	-13.7	-6.5	-2.2	-7.1	-9.7	-24.1
Barrier 4. 15.01 Skylight	Wintec aluminium awning window, 4 mm glass, Q lon seals			Octave Band Centre Frequencies - Hz							
			dBA	63	125	250	500	1000	2000	4000	8000
Dist Source to Barrier	Direct Lp Inside Barrier		77.4	55	61	66	72	74	71	67	63
	Comb'd Lp Inside Barrier		82.9	61	67	72	78	79	76	73	68
No: Dist.	Trial Combined Lw Inside Barrier		84.4	63	69	74	79	81	77	74	69
1. 0	Effective Reverb Lp Inside Barrier		82.9	61	67	72	78	79	76	73	68
2. 0	Barrier Sound Trans. Loss	Rw =	27	20	18	21	26	26	29	28	35
3. 2	Area of Barrier, m^2 =	1.4									
4. 0	Lw Outside Barrier		54.7	40	48	49	51	52	46	43	32
6.	Safety Factor =	0		0	0	0	0	0	0	0	0
7.	No. of Same Barrier Paths =	3		5	5	5	5	5	5	5	5
8.	Distance (Loss) metre =	38		40	40	40	40	40	40	40	40
9.	Air Absorption							0	0	1	2
	Screen Wall Loss (eff. H=)	0.8		5	6	6	7	8	10	13	16
	Ground Absorption =										
	Lp Contribution at Receptor =		3.6	-8.4	-0.6	0.2	1.1	0.8	-7.5	-12.9	-28.6
	(A weighted level =)			-34.6	-16.7	-8.4	-2.1	0.8	-6.3	-11.9	-29.7
ADD OUTSIDE Lp CONTRIBUTIONS			dBA	63	125	250	500	1000	2000	4000	8000
Total Lp Contribution from ROOM =			11	1	5	5	6	7	3	1	0
(A weighted level =)				-18.2	-7.1	0.6	6.5	9.9	9.5	9.1	6.7
Noise Level Criterion =			39	dBA							

ROOM NOISE EMISSION COMPUTATION (ROOMOUT.XLS) Version 7.00

DAY DESIGN PTY LTD
Engineer: SG/BL
Project No: 7460-1
Date: 5-May-2022
Atmosphere:
RH% 90.0

Client . . . . . Boskovitz Lawyers
Project Title. . . . . 26 Beattie Ave, Denistone East
Room Description . . . . Indoor_3
Receptor Location. . . . R5
Noise Criterion . . . . . 39 dBA

Lw of NOISE SOURCES INSIDE ROOM	Number	Duration	dBA	NOISE LEVELS - dB (re: 1 picowatt) 63	125	250	500	1000	2000	4000	8000
1. 0-2	0	900	0	0	0	0	0	0	0	0	0
2. 2-3	0	900	0	0	0	0	0	0	0	0	0
3. 3-5	30	900	91	69	75	80	86	88	85	81	77
TOTAL Lw IN ROOM =	30.0		91	69	75	80	86	88	85	81	77

ROOM ABSORPTION, Length = 16.0 Width= 6.2 m, Height = 2.8 metres = 278 m^3
Total Surface Area = 323 Square Metres

20.1				Ave Absorption Co=efficients 63	125	250	500	1000	2000	4000	8000
Ave Absorption Coefficicent =	BEDROOM with pb ceiling, brick walls/cement render and carpet floor			0.08	0.08	0.09	0.10	0.12	0.15	0.11	0.15
Absorption =				26	26	29	32	39	48	35	48
Reverberant Lp Inside Room =			81	60	66	71	77	78	74	71	66
Barrier 1. 15.01 Windows (SW)	Wintec aluminium awning window, 4 mm glass, Q lon seals		dBA	Octave Band Centre Frequencies - Hz 63	125	250	500	1000	2000	4000	8000
	Direct Lp Inside Barrier	Input	77.4	55	61	66	72	74	71	67	63
	Comb'd Lp Inside Barrier		82.9	61	67	72	78	79	76	73	68
No: Dist.	Trial Combined Lw Inside Barrier		62.9	41	47	52	58	59	56	53	48
1. 0	Effective Reverb Lp Inside Barrier		82.9	61	67	72	78	79	76	73	68
2. 0	Barrier Sound Trans. Loss	Rw =	27	20	18	21	26	26	29	28	35
3. 2	Area of Barrier, m^2 =	0									
4. 0	Lw Outside Barrier		33.1	18	26	27	29	30	24	22	10
6.	Safety Factor =	0		0	0	0	0	0	0	0	0
7.	No. of Same Barrier Paths =	1		0	0	0	0	0	0	0	0
8.	Distance Loss Distance (m) =	39		40	40	40	40	40	40	40	40
9.	Air Absorption							0	0	1	2
	Screen Wall Loss (eff. H=)	0.2		5	5	5	5	5	6	7	8
	Lp Contribution at Receptor =		0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
	(A weighted level =)			-26.2	-16.1	-8.6	-3.2	0.0	1.2	1.0	-1.1
Barrier 2. 15.01 Window (NW)	Wintec aluminium awning window, 4 mm glass, Q lon seals		dBA	Octave Band Centre Frequencies - Hz 63	125	250	500	1000	2000	4000	8000
Dist Source to	Direct Lp Inside Barrier		77.4	55	61	66	72	74	71	67	63
Barrier	Comb'd Lp Inside Barrier		82.9	61	67	72	78	79	76	73	68
No: Dist.	Trial Combined Lw Inside Barrier		82.9	61	67	72	78	79	76	73	68
1. 0	Effective Reverb Lp Inside Barrier		82.9	61	67	72	78	79	76	73	68
2. 0	Barrier Sound Trans. Loss	Rw =	27	20	18	21	26	26	29	28	35
3. 2	Area of Barrier, m^2 =	1									
4. 0	Lw Outside Barrier		53.1	38	46	47	49	50	44	42	30
6.	Safety Factor =	0		0	0	0	0	0	0	0	0
7.	No. of Same Barrier Paths =	1		0	0	0	0	0	0	0	0
8.	Distance (Loss) metre =	39		40	40	40	40	40	40	40	40
9.	Air Absorption							0	0	1	2
	Screen Wall Loss (eff. H=)	0.1		5	5	5	5	5	5	6	7
	Lp Contribution at Receptor =		6.4	-8.2	-0.2	1.0	2.7	3.6	-2.9	-6.1	-19.8
	(A weighted level =)			-34.4	-16.3	-7.6	-0.5	3.6	-1.7	-5.1	-20.9
Barrier 3. 15.01 Window (NE)	Wintec aluminium awning window, 4 mm glass, Q lon seals		dBA	Octave Band Centre Frequencies - Hz 63	125	250	500	1000	2000	4000	8000
Dist Source to	Direct Lp Inside Barrier		77.4	55	61	66	72	74	71	67	63
Barrier	Comb'd Lp Inside Barrier		82.9	61	67	72	78	79	76	73	68
No: Dist.	Trial Combined Lw Inside Barrier		52.9	31	37	42	48	49	46	43	38
1. 0	Effective Reverb Lp Inside Barrier		82.9	61	67	72	78	79	76	73	68
2. 0	Barrier Sound Trans. Loss	Rw =	27	20	18	21	26	26	29	28	35
3. 2	Area of Barrier, m^2 =	0									
4. 0	Lw Outside Barrier		23.1	8	16	17	19	20	14	12	0
6.	Safety Factor =	0		0	0	0	0	0	0	0	0
7.	No. of Same Barrier Paths =	1		0	0	0	0	0	0	0	0
8.	Distance (Loss) metre =	39		40	40	40	40	40	40	40	40
9.	Air Absorption							0	0	1	2
	Screen Wall Loss (eff. H=)	0.1		5	5	5	5	5	5	6	7
	Lp Contribution at Receptor =		0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
	(A weighted level =)			-26.2	-16.1	-8.6	-3.2	0.0	1.2	1.0	-1.1
Barrier 4. 15.01 Skylight	Wintec aluminium awning window, 4 mm glass, Q lon seals		dBA	Octave Band Centre Frequencies - Hz 63	125	250	500	1000	2000	4000	8000
Dist Source to	Direct Lp Inside Barrier		77.4	55	61	66	72	74	71	67	63
Barrier	Comb'd Lp Inside Barrier		82.9	61	67	72	78	79	76	73	68
No: Dist.	Trial Combined Lw Inside Barrier		62.9	41	47	52	58	59	56	53	48
1. 0	Effective Reverb Lp Inside Barrier		82.9	61	67	72	78	79	76	73	68
2. 0	Barrier Sound Trans. Loss	Rw =	27	20	18	21	26	26	29	28	35
3. 2	Area of Barrier, m^2 =	0.0									
4. 0	Lw Outside Barrier		33.1	18	26	27	29	30	24	22	10
6.	Safety Factor =	0		0	0	0	0	0	0	0	0
7.	No. of Same Barrier Paths =	3		5	5	5	5	5	5	5	5
8.	Distance (Loss) metre =	31		38	38	38	38	38	38	38	38
9.	Air Absorption							0	0	0	2
	Screen Wall Loss (eff. H=)	3.2		16	19	22	24	24	24	24	24
	Ground Absorption =										
	Lp Contribution at Receptor =		0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
	(A weighted level =)			-26.2	-16.1	-8.6	-3.2	0.0	1.2	1.0	-1.1
ADD OUTSIDE Lp CONTRIBUTIONS			dBA	63	125	250	500	1000	2000	4000	8000
Total Lp Contribution from ROOM =			14	6	7	7	8	8	7	6	6
(A weighted level =)				-16.6	-6.1	1.5	7.2	10.5	11.0	10.7	8.4
Noise Level Criterion =			39	dBA							

ROOM NOISE EMISSION COMPUTATION (ROOMOUT.XLS) Version 7.00

DAY DESIGN PTY LTD
Engineer: SG/BL
Project No: 7460-1
Date: 5-May-2022
Atmosphere:
RH% 90.0

Client . . . . . Boskovitz Lawyers
Project Title. . . . . 26 Beattie Ave, Denistone East
Room Description . . . . Indoor_4
Receptor Location. . . . R1D
Noise Criterion . . . . . 39 dBA

Lw of NOISE SOURCES INSIDE ROOM	Number	Duration	dBA	NOISE LEVELS - dB (re: 1 picowatt) 63	125	250	500	1000	2000	4000	8000
1. 0-2	0	900	0	0	0	0	0	0	0	0	0
2. 2-3	0	900	0	0	0	0	0	0	0	0	0
3. 3-5	19	900	89	67	73	78	84	86	83	79	75
TOTAL Lw IN ROOM =	19.0		89	67	73	78	84	86	83	79	75

ROOM ABSORPTION, Length = 13.4 Width= 5.0 m, Height = 2.8 metres = 188 m^3
Total Surface Area = 237 Square Metres

20.1 Ave Absorption Coefficient = BEDROOM with pb ceiling, brick walls/cement render and carpet floor			Ave Absorption Co=efficients 63	125	250	500	1000	2000	4000	8000
			0.08	0.08	0.09	0.10	0.12	0.15	0.11	0.15
Absorption =			19	19	21	24	28	36	26	36
Reverberant Lp Inside Room =		81	60	66	70	76	77	73	71	65

Barrier 1. 15.01 Windows (NW) Wintec aluminium awning window, 4 mm glass, Q lon seals			dBA	Octave Band Centre Frequencies - Hz 63	125	250	500	1000	2000	4000	8000
	Direct Lp Inside Barrier	Input	75.4	53	59	64	70	72	69	65	61
	Comb'd Lp Inside Barrier		81.9	60	66	71	77	78	75	72	67
No: Dist.	Trial Combined Lw Inside Barrier		81.9	60	66	71	77	78	75	72	67
1. 0	Effective Reverb Lp Inside Barrier		81.9	60	66	71	77	78	75	72	67
2. 0	Barrier Sound Trans. Loss	Rw =	27	20	18	21	26	26	29	28	35
3. 2	Area of Barrier, m^2 =	1									
4. 0	Lw Outside Barrier		51.7	37	45	46	48	49	42	40	29
6.	Safety Factor =	0		0	0	0	0	0	0	0	0
7.	No. of Same Barrier Paths =	1		0	0	0	0	0	0	0	0
8.	Distance Loss Distance (m) =	27		37	37	37	37	37	37	37	37
9.	Air Absorption							0	0	0	1
	Screen Wall Loss (eff. H=)	0.7		6	6	7	8	11	13	16	19
	Lp Contribution at Receptor =		4.6	-5.5	2.1	2.4	2.7	1.5	-7.5	-12.9	-28.4
	(A weighted level =)			-31.7	-14.0	-6.2	-0.5	1.5	-6.3	-11.9	-29.5

Barrier 2. 15.01 Skylight Wintec aluminium awning window, 4 mm glass, Q lon seals			dBA	Octave Band Centre Frequencies - Hz 63	125	250	500	1000	2000	4000	8000
Dist Source to	Direct Lp Inside Barrier		75.4	53	59	64	70	72	69	65	61
Barrier	Comb'd Lp Inside Barrier		81.9	60	66	71	77	78	75	72	67
No: Dist.	Trial Combined Lw Inside Barrier		61.9	40	46	51	57	58	55	52	47
1. 0	Effective Reverb Lp Inside Barrier		81.9	60	66	71	77	78	75	72	67
2. 0	Barrier Sound Trans. Loss	Rw =	27	20	18	21	26	26	29	28	35
3. 2	Area of Barrier, m^2 =	0.0									
4. 0	Lw Outside Barrier		31.7	17	25	26	28	29	22	20	9
6.	Safety Factor =	0		0	0	0	0	0	0	0	0
7.	No. of Same Barrier Paths =	3		5	5	5	5	5	5	5	5
8.	Distance (Loss) metre =	31		38	38	38	38	38	38	38	38
9.	Air Absorption							0	0	0	2
	Screen Wall Loss (eff. H=)	2.0		7	8	11	13	16	19	22	24
	Lp Contribution at Receptor =		0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
	(A weighted level =)			-26.2	-16.1	-8.6	-3.2	0.0	1.2	1.0	-1.1

Barrier 3. 40.01 CSR 140 Clay Brick Wall			dBA	Octave Band Centre Frequencies - Hz 63	125	250	500	1000	2000	4000	8000
Dist Source to	Direct Lp Inside Barrier		75.4	53	59	64	70	72	69	65	61
Barrier	Comb'd Lp Inside Barrier		81.9	60	66	71	77	78	75	72	67
No: Dist.	Trial Combined Lw Inside Barrier		61.9	40	46	51	57	58	55	52	47
1. 0	Effective Reverb Lp Inside Barrier		81.9	60	66	71	77	78	75	72	67
2. 0	Barrier Sound Trans. Loss	Rw =	39	33	33	31	38	42	40	47	52
3. 2	Area of Barrier, m^2 =	0									
4. 0	Lw Outside Barrier		18.1	4	10	16	15	13	12	1	-8
6.	Safety Factor =	0		0	0	0	0	0	0	0	0
7.	No. of Same Barrier Paths =	1		0	0	0	0	0	0	0	0
8.	Distance (Loss) metre =	31		38	38	38	38	38	38	38	38
9.	Air Absorption							0	0	0	2
	Screen Wall Loss (eff. H=)										
	Lp Contribution at Receptor =		0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
	(A weighted level =)			-26.2	-16.1	-8.6	-3.2	0.0	1.2	1.0	-1.1

Barrier 4. 40.01 CSR 140 Clay Brick Wall			dBA	Octave Band Centre Frequencies - Hz 63	125	250	500	1000	2000	4000	8000
Dist Source to	Direct Lp Inside Barrier		75.4	53	59	64	70	72	69	65	61
Barrier	Comb'd Lp Inside Barrier		81.9	60	66	71	77	78	75	72	67
No: Dist.	Trial Combined Lw Inside Barrier		61.9	40	46	51	57	58	55	52	47
1. 0	Effective Reverb Lp Inside Barrier		81.9	60	66	71	77	78	75	72	67
2. 0	Barrier Sound Trans. Loss	Rw =	39	33	33	31	38	42	40	47	52
3. 2	Area of Barrier, m^2 =	0									
4. 0	Lw Outside Barrier		18.1	4	10	16	15	13	12	1	-8
6.	Safety Factor =	0		0	0	0	0	0	0	0	0
7.	No. of Same Barrier Paths =	1		0	0	0	0	0	0	0	0
8.	Distance (Loss) metre =	31		38	38	38	38	38	38	38	38
9.	Air Absorption							0	0	0	2
	Screen Wall Loss (eff. H=)										
	Ground Absorption =										
	Lp Contribution at Receptor =		0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
	(A weighted level =)			-26.2	-16.1	-8.6	-3.2	0.0	1.2	1.0	-1.1

ADD OUTSIDE Lp CONTRIBUTIONS	dBA	63	125	250	500	1000	2000	4000	8000
Total Lp Contribution from ROOM =	14	6	7	8	8	7	6	6	6
(A weighted level =)		-16.5	-5.8	1.7	7.2	10.2	10.8	10.6	8.4
Noise Level Criterion =	39	dBA							

ROOM NOISE EMISSION COMPUTATION (ROOMOUT.XLS) Version 7.00

DAY DESIGN PTY LTD
Engineer: SG/BL
Project No: 7460-1
Date: 5-May-2022
Atmosphere:
RH% 90.0

Client . . . . . Boskovitz Lawyers
Project Title. . . . . 26 Beattie Ave, Denistone East
Room Description . . . . Indoor_4
Receptor Location. . . . R2C
Noise Criterion . . . . . 39 dBA

Lw of NOISE SOURCES INSIDE ROOM	Number	Duration	dBA	63	125	250	500	1000	2000	4000	8000
				NOISE LEVELS - dB (re: 1 picowatt)							
1. 0-2	0	900	0	0	0	0	0	0	0	0	0
2. 2-3	0	900	0	0	0	0	0	0	0	0	0
3. 3-5	19	900	89	67	73	78	84	86	83	79	75
TOTAL Lw IN ROOM =	19.0		89	67	73	78	84	86	83	79	75

ROOM ABSORPTION, Length = 13.4 Width= 5.0 m, Height = 2.8 metres = 188 m^3
Total Surface Area = 237 Square Metres

20.1				63	125	250	500	1000	2000	4000	8000
Ave Absorption Coefficicent =	BEDROOM with pb ceiling, brick walls/cement render and carpet floor			Ave Absorption Co-efficients							
				0.08	0.08	0.09	0.10	0.12	0.15	0.11	0.15
	Absorption =			19	19	21	24	28	36	26	36
	Reverberant Lp Inside Room =		81	60	66	70	76	77	73	71	65

Barrier 1. 15.01 Windows (NW	Wintec aluminium awning window, 4 mm glass, Q lon seals			dBA	63	125	250	500	1000	2000	4000	8000
					Octave Band Centre Frequencies - Hz							
	Direct Lp Inside Barrier	Input		75.4	53	59	64	70	72	69	65	61
	Comb'd Lp Inside Barrier			81.9	60	66	71	77	78	75	72	67
No: Dist.	Trial Combined Lw Inside Barrier			61.9	40	46	51	57	58	55	52	47
1. 0	Effective Reverb Lp Inside Barrier			81.9	60	66	71	77	78	75	72	67
2. 0	Barrier Sound Trans. Loss		Rw = 27		20	18	21	26	26	29	28	35
3. 2	Area of Barrier, m^2 =	0										
4. 0	Lw Outside Barrier			31.7	17	25	26	28	29	22	20	9
6.	Safety Factor =	0			0	0	0	0	0	0	0	0
7.	No. of Same Barrier Paths =	1			0	0	0	0	0	0	0	0
8.	Distance Loss Distance (m) =	18			33	33	33	33	33	33	33	33
9.	Air Absorption								0	0	0	1
	Screen Wall Loss (eff. H=)	0.0			5	5	5	5	5	5	5	5
	Lp Contribution at Receptor =			0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
	(A weighted level =)				-26.2	-16.1	-8.6	-3.2	0.0	1.2	1.0	-1.1

Barrier 2. 15.01 Skylight	Wintec aluminium awning window, 4 mm glass, Q lon seals			dBA	63	125	250	500	1000	2000	4000	8000
					Octave Band Centre Frequencies - Hz							
Dist Source to Barrier	Direct Lp Inside Barrier			75.4	53	59	64	70	72	69	65	61
	Comb'd Lp Inside Barrier			81.9	60	66	71	77	78	75	72	67
No: Dist.	Trial Combined Lw Inside Barrier			83.5	62	68	73	79	80	76	73	68
1. 0	Effective Reverb Lp Inside Barrier			81.9	60	66	71	77	78	75	72	67
2. 0	Barrier Sound Trans. Loss		Rw = 27		20	18	21	26	26	29	28	35
3. 2	Area of Barrier, m^2 =	1.4										
4. 0	Lw Outside Barrier			53.3	38	46	48	49	50	44	42	30
6.	Safety Factor =	0			0	0	0	0	0	0	0	0
7.	No. of Same Barrier Paths =	1			0	0	0	0	0	0	0	0
8.	Distance (Loss) metre =	31			38	38	38	38	38	38	38	38
9.	Air Absorption								0	0	0	2
	Screen Wall Loss (eff. H=)	-0.3			5	5	5	4	4	3	1	0
	Lp Contribution at Receptor =			8.9	-7.4	0.7	2.1	4.2	5.7	0.4	-0.5	-12.2
	(A weighted level =)				-33.6	-15.4	-6.5	1.0	5.7	1.6	0.5	-13.3

Barrier 3. 40.01	CSR 140 Clay Brick Wall			dBA	63	125	250	500	1000	2000	4000	8000
					Octave Band Centre Frequencies - Hz							
Dist Source to Barrier	Direct Lp Inside Barrier			75.4	53	59	64	70	72	69	65	61
	Comb'd Lp Inside Barrier			81.9	60	66	71	77	78	75	72	67
No: Dist.	Trial Combined Lw Inside Barrier			61.9	40	46	51	57	58	55	52	47
1. 0	Effective Reverb Lp Inside Barrier			81.9	60	66	71	77	78	75	72	67
2. 0	Barrier Sound Trans. Loss		Rw = 39		33	33	31	38	42	40	47	52
3. 2	Area of Barrier, m^2 =	0										
4. 0	Lw Outside Barrier			18.1	4	10	16	15	13	12	1	-8
6.	Safety Factor =	0			0	0	0	0	0	0	0	0
7.	No. of Same Barrier Paths =	1			0	0	0	0	0	0	0	0
8.	Distance (Loss) metre =	31			38	38	38	38	38	38	38	38
9.	Air Absorption								0	0	0	2
	Screen Wall Loss (eff. H=)											
	Lp Contribution at Receptor =			0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
	(A weighted level =)				-26.2	-16.1	-8.6	-3.2	0.0	1.2	1.0	-1.1

Barrier 4. 40.01	CSR 140 Clay Brick Wall			dBA	63	125	250	500	1000	2000	4000	8000
					Octave Band Centre Frequencies - Hz							
Dist Source to Barrier	Direct Lp Inside Barrier			75.4	53	59	64	70	72	69	65	61
	Comb'd Lp Inside Barrier			81.9	60	66	71	77	78	75	72	67
No: Dist.	Trial Combined Lw Inside Barrier			61.9	40	46	51	57	58	55	52	47
1. 0	Effective Reverb Lp Inside Barrier			81.9	60	66	71	77	78	75	72	67
2. 0	Barrier Sound Trans. Loss		Rw = 39		33	33	31	38	42	40	47	52
3. 2	Area of Barrier, m^2 =	0										
4. 0	Lw Outside Barrier			18.1	4	10	16	15	13	12	1	-8
6.	Safety Factor =	0			0	0	0	0	0	0	0	0
7.	No. of Same Barrier Paths =	1			0	0	0	0	0	0	0	0
8.	Distance (Loss) metre =	31			38	38	38	38	38	38	38	38
9.	Air Absorption								0	0	0	2
	Screen Wall Loss (eff. H=)											
	Ground Absorption =											
	Lp Contribution at Receptor =			0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
	(A weighted level =)				-26.2	-16.1	-8.6	-3.2	0.0	1.2	1.0	-1.1

ADD OUTSIDE Lp CONTRIBUTIONS	dBA	63	125	250	500	1000	2000	4000	8000
Total Lp Contribution from ROOM =	14	6	7	7	8	9	7	7	6
(A weighted level =)		-16.6	-6.0	1.7	7.4	11.1	11.2	10.9	8.5
Noise Level Criterion =	39	dBA							

ROOM NOISE EMISSION COMPUTATION (ROOMOUT.XLS) Version 7.00

DAY DESIGN PTY LTD
Engineer: SG/BL
Project No: 7460-1
Date: 5-May-2022
Atmosphere:
RH% 90.0

Client . . . . . Boskovitz Lawyers
Project Title. . . . . 26 Beattie Ave, Denistone East
Room Description . . . . Indoor_4
Receptor Location. . . . R2C
Noise Criterion . . . . . 39 dBA

Lw of NOISE SOURCES INSIDE ROOM	Number	Duration	dBA	63	125	250	500	1000	2000	4000	8000
				NOISE LEVELS - dB (re: 1 picowatt)							
1. 0-2	0	900	0	0	0	0	0	0	0	0	0
2. 2-3	0	900	0	0	0	0	0	0	0	0	0
3. 3-5	19	900	89	67	73	78	84	86	83	79	75
TOTAL Lw IN ROOM =	19.0		89	67	73	78	84	86	83	79	75

ROOM ABSORPTION, Length = 13.4 Width= 5.0 m, Height = 2.8 metres = 188 m^3
Total Surface Area = 237 Square Metres

20.1			63	125	250	500	1000	2000	4000	8000
Ave Absorption Coefficicent =	BEDROOM with pb ceiling, brick walls/cement render and carpet floor		Ave Absorption Coefficients							
			0.08	0.08	0.09	0.10	0.12	0.15	0.11	0.15
Absorption =			19	19	21	24	28	36	26	36
Reverberant Lp Inside Room =		81	60	66	70	76	77	73	71	65

Barrier 1. 15.01 Windows (NW	Wintec aluminium awning window, 4 mm glass, Q lon seals		dBA	63	125	250	500	1000	2000	4000	8000
				Octave Band Centre Frequencies - Hz							
	Direct Lp Inside Barrier	Input	75.4	53	59	64	70	72	69	65	61
	Comb'd Lp Inside Barrier		81.9	60	66	71	77	78	75	72	67
No: Dist.	Trial Combined Lw Inside Barrier		61.9	40	46	51	57	58	55	52	47
1. 0	Effective Reverb Lp Inside Barrier		81.9	60	66	71	77	78	75	72	67
2. 0	Barrier Sound Trans. Loss	Rw =	27	20	18	21	26	26	29	28	35
3. 2	Area of Barrier, m^2 =	0									
4. 0	Lw Outside Barrier		31.7	17	25	26	28	29	22	20	9
6.	Safety Factor =	0		0	0	0	0	0	0	0	0
7.	No. of Same Barrier Paths =	1		0	0	0	0	0	0	0	0
8.	Distance Loss Distance (m) =	18		33	33	33	33	33	33	33	33
9.	Air Absorption							0	0	0	1
	Screen Wall Loss (eff. H=)	-0.4		5	5	4	4	3	1	0	0
	Lp Contribution at Receptor =		0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
	(A weighted level =)			-26.2	-16.1	-8.6	-3.2	0.0	1.2	1.0	-1.1

Barrier 2. 15.01 Skylight	Wintec aluminium awning window, 4 mm glass, Q lon seals		dBA	63	125	250	500	1000	2000	4000	8000
				Octave Band Centre Frequencies - Hz							
Dist Source to Barrier	Direct Lp Inside Barrier		75.4	53	59	64	70	72	69	65	61
	Comb'd Lp Inside Barrier		81.9	60	66	71	77	78	75	72	67
No: Dist.	Trial Combined Lw Inside Barrier		83.5	62	68	73	79	80	76	73	68
1. 0	Effective Reverb Lp Inside Barrier		81.9	60	66	71	77	78	75	72	67
2. 0	Barrier Sound Trans. Loss	Rw =	27	20	18	21	26	26	29	28	35
3. 2	Area of Barrier, m^2 =	1.4									
4. 0	Lw Outside Barrier		53.3	38	46	48	49	50	44	42	30
6.	Safety Factor =	0		0	0	0	0	0	0	0	0
7.	No. of Same Barrier Paths =	1		0	0	0	0	0	0	0	0
8.	Distance (Loss) metre =	31		38	38	38	38	38	38	38	38
9.	Air Absorption							0	0	0	2
	Screen Wall Loss (eff. H=)	-0.6		4	4	3	2	0	0	0	0
	Lp Contribution at Receptor =		12.0	-7.0	1.6	3.7	7.0	9.5	3.1	0.5	-12.2
	(A weighted level =)			-33.2	-14.5	-4.9	3.8	9.5	4.3	1.5	-13.3

Barrier 3. 40.01	CSR 140 Clay Brick Wall		dBA	63	125	250	500	1000	2000	4000	8000
				Octave Band Centre Frequencies - Hz							
Dist Source to Barrier	Direct Lp Inside Barrier		75.4	53	59	64	70	72	69	65	61
	Comb'd Lp Inside Barrier		81.9	60	66	71	77	78	75	72	67
No: Dist.	Trial Combined Lw Inside Barrier		61.9	40	46	51	57	58	55	52	47
1. 0	Effective Reverb Lp Inside Barrier		81.9	60	66	71	77	78	75	72	67
2. 0	Barrier Sound Trans. Loss	Rw =	39	33	33	31	38	42	40	47	52
3. 2	Area of Barrier, m^2 =	0									
4. 0	Lw Outside Barrier		18.1	4	10	16	15	13	12	1	-8
6.	Safety Factor =	0		0	0	0	0	0	0	0	0
7.	No. of Same Barrier Paths =	1		0	0	0	0	0	0	0	0
8.	Distance (Loss) metre =	31		38	38	38	38	38	38	38	38
9.	Air Absorption							0	0	0	2
	Screen Wall Loss (eff. H=)										
	Lp Contribution at Receptor =		0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
	(A weighted level =)			-26.2	-16.1	-8.6	-3.2	0.0	1.2	1.0	-1.1

Barrier 4. 40.01	CSR 140 Clay Brick Wall		dBA	63	125	250	500	1000	2000	4000	8000
				Octave Band Centre Frequencies - Hz							
Dist Source to Barrier	Direct Lp Inside Barrier		75.4	53	59	64	70	72	69	65	61
	Comb'd Lp Inside Barrier		81.9	60	66	71	77	78	75	72	67
No: Dist.	Trial Combined Lw Inside Barrier		61.9	40	46	51	57	58	55	52	47
1. 0	Effective Reverb Lp Inside Barrier		81.9	60	66	71	77	78	75	72	67
2. 0	Barrier Sound Trans. Loss	Rw =	39	33	33	31	38	42	40	47	52
3. 2	Area of Barrier, m^2 =	0									
4. 0	Lw Outside Barrier		18.1	4	10	16	15	13	12	1	-8
6.	Safety Factor =	0		0	0	0	0	0	0	0	0
7.	No. of Same Barrier Paths =	1		0	0	0	0	0	0	0	0
8.	Distance (Loss) metre =	31		38	38	38	38	38	38	38	38
9.	Air Absorption							0	0	0	2
	Screen Wall Loss (eff. H=)										
	Ground Absorption =										
	Lp Contribution at Receptor =		0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
	(A weighted level =)			-26.2	-16.1	-8.6	-3.2	0.0	1.2	1.0	-1.1

ADD OUTSIDE Lp CONTRIBUTIONS	dBA	63	125	250	500	1000	2000	4000	8000
Total Lp Contribution from ROOM =	16	6	7	8	10	11	8	7	6
(A weighted level =)		-16.6	-5.9	2.0	8.3	12.5	11.6	11.1	8.5
Noise Level Criterion =	39	dBA							

ROOM NOISE EMISSION COMPUTATION (ROOMOUT.XLS) Version 7.00

DAY DESIGN PTY LTD
Engineer: SG/BL
Project No: 7460-1
Date: 5-May-2022
Atmosphere:
RH% 90.0

Client . . . . . Boskovitz Lawyers
Project Title. . . . . 26 Beattie Ave, Denistone East
Room Description . . . . Indoor_4
Receptor Location. . . . R2C
Noise Criterion . . . . . 39 dBA

Lw of NOISE SOURCES INSIDE ROOM	Number	Duration	dBA	NOISE LEVELS - dB (re: 1 picowatt) 63	125	250	500	1000	2000	4000	8000
1. 0-2	0	900	0	0	0	0	0	0	0	0	0
2. 2-3	0	900	0	0	0	0	0	0	0	0	0
3. 3-5	19	900	89	67	73	78	84	86	83	79	75
TOTAL Lw IN ROOM =	19.0		89	67	73	78	84	86	83	79	75

ROOM ABSORPTION, Length = 13.4 Width= 5.0 m, Height = 2.8 metres = 188 m^3
Total Surface Area = 237 Square Metres

20.1				Ave Absorption Co=efficients 63	125	250	500	1000	2000	4000	8000
Ave Absorption Coefficicent =	BEDROOM with pb ceiling, brick walls/cement render and carpet floor			0.08	0.08	0.09	0.10	0.12	0.15	0.11	0.15
Absorption =				19	19	21	24	28	36	26	36
Reverberant Lp Inside Room =			81	60	66	70	76	77	73	71	65

Barrier 1. 0.00 Windows (NW	Open Window/Door			Octave Band Centre Frequencies - Hz 63	125	250	500	1000	2000	4000	8000
			dBA								
	Direct Lp Inside Barrier	Input	71.9	49	55	60	66	68	65	61	57
	Comb'd Lp Inside Barrier		81.3	60	66	71	76	78	74	71	66
No: Dist.	Trial Combined Lw Inside Barrier		81.3	60	66	71	76	78	74	71	66
1. 0	Effective Reverb Lp Inside Barrier		81.3	60	66	71	76	78	74	71	66
2. 0	Barrier Sound Trans. Loss	Rw =	0	0	0	0	0	0	0	0	0
3. 3	Area of Barrier, m^2 =	1									
4. 0	Lw Outside Barrier		76.9	55	61	66	72	73	70	67	62
6.	Safety Factor =	0		0	0	0	0	0	0	0	0
7.	No. of Same Barrier Paths =	1		-3	-3	-3	-3	-3	-3	-3	-3
8.	Distance Loss Distance (m) =	18		33	33	33	33	33	33	33	33
9.	Air Absorption							0	0	0	1
	Screen Wall Loss (eff. H=)	0.2		5	5	5	5	6	6	7	9
	Lp Contribution at Receptor =		34.7	14.1	20.1	24.6	30.4	31.5	27.3	22.8	15.6
	(A weighted level =)			-12.1	4.0	16.0	27.2	31.5	28.5	23.8	14.5

Barrier 2. 0.00 Skylight	Open Window/Door			Octave Band Centre Frequencies - Hz 63	125	250	500	1000	2000	4000	8000
			dBA								
Dist Source to Barrier	Direct Lp Inside Barrier		75.4	53	59	64	70	72	69	65	61
	Comb'd Lp Inside Barrier		81.9	60	66	71	77	78	75	72	67
No: Dist.	Trial Combined Lw Inside Barrier		83.5	62	68	73	79	80	76	73	68
1. 0	Effective Reverb Lp Inside Barrier		81.9	60	66	71	77	78	75	72	67
2. 0	Barrier Sound Trans. Loss	Rw =	0	0	0	0	0	0	0	0	0
3. 2	Area of Barrier, m^2 =	1.4									
4. 0	Lw Outside Barrier		80.2	58	64	69	75	77	73	70	65
6.	Safety Factor =	0		0	0	0	0	0	0	0	0
7.	No. of Same Barrier Paths =	3		5	5	5	5	5	5	5	5
8.	Distance (Loss) metre =	31		38	38	38	38	38	38	38	38
9.	Air Absorption							0	0	0	2
	Screen Wall Loss (eff. H=)	0.3		5	5	5	5	6	6	7	9
	Lp Contribution at Receptor =		33.1	12.2	18.2	22.8	28.6	29.9	25.9	21.0	13.6
	(A weighted level =)			-14.0	2.1	14.2	25.4	29.9	27.1	22.0	12.5

Barrier 3. 40.01	CSR 140 Clay Brick Wall			Octave Band Centre Frequencies - Hz 63	125	250	500	1000	2000	4000	8000
			dBA								
Dist Source to Barrier	Direct Lp Inside Barrier		75.4	53	59	64	70	72	69	65	61
	Comb'd Lp Inside Barrier		81.9	60	66	71	77	78	75	72	67
No: Dist.	Trial Combined Lw Inside Barrier		61.9	40	46	51	57	58	55	52	47
1. 0	Effective Reverb Lp Inside Barrier		81.9	60	66	71	77	78	75	72	67
2. 0	Barrier Sound Trans. Loss	Rw =	39	33	33	31	38	42	40	47	52
3. 2	Area of Barrier, m^2 =	0									
4. 0	Lw Outside Barrier		18.1	4	10	16	15	13	12	1	-8
6.	Safety Factor =	0		0	0	0	0	0	0	0	0
7.	No. of Same Barrier Paths =	1		0	0	0	0	0	0	0	0
8.	Distance (Loss) metre =	31		38	38	38	38	38	38	38	38
9.	Air Absorption							0	0	0	2
	Screen Wall Loss (eff. H=)										
	Lp Contribution at Receptor =		0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
	(A weighted level =)			-26.2	-16.1	-8.6	-3.2	0.0	1.2	1.0	-1.1

Barrier 4. 40.01	CSR 140 Clay Brick Wall			Octave Band Centre Frequencies - Hz 63	125	250	500	1000	2000	4000	8000
			dBA								
Dist Source to Barrier	Direct Lp Inside Barrier		75.4	53	59	64	70	72	69	65	61
	Comb'd Lp Inside Barrier		81.9	60	66	71	77	78	75	72	67
No: Dist.	Trial Combined Lw Inside Barrier		61.9	40	46	51	57	58	55	52	47
1. 0	Effective Reverb Lp Inside Barrier		81.9	60	66	71	77	78	75	72	67
2. 0	Barrier Sound Trans. Loss	Rw =	39	33	33	31	38	42	40	47	52
3. 2	Area of Barrier, m^2 =	0									
4. 0	Lw Outside Barrier		18.1	4	10	16	15	13	12	1	-8
6.	Safety Factor =	0		0	0	0	0	0	0	0	0
7.	No. of Same Barrier Paths =	1		0	0	0	0	0	0	0	0
8.	Distance (Loss) metre =	31		38	38	38	38	38	38	38	38
9.	Air Absorption							0	0	0	2
	Screen Wall Loss (eff. H=)										
	Ground Absorption =										
	Lp Contribution at Receptor =		0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
	(A weighted level =)			-26.2	-16.1	-8.6	-3.2	0.0	1.2	1.0	-1.1

ADD OUTSIDE Lp CONTRIBUTIONS		dBA	63	125	250	500	1000	2000	4000	8000
Total Lp Contribution from ROOM =		37	17	22	27	33	34	30	25	18
(A weighted level =)			-9.2	6.3	18.3	29.4	33.8	30.9	26.1	17.2
Noise Level Criterion =		39	dBA							

ROOM NOISE EMISSION COMPUTATION (ROOMOUT.XLS) Version 7.00

DAY DESIGN PTY LTD
Engineer: SG/BL
Project No: 7460-1
Date: 5-May-2022
Atmosphere:
RH% 90.0

Client . . . . . Boskovitz Lawyers
Project Title. . . . . 26 Beattie Ave, Denistone East
Room Description . . . . Indoor_4
Receptor Location. . . . R3
Noise Criterion . . . . . 39 dBA

Lw of NOISE SOURCES INSIDE ROOM	Number	Duration	dBA	63	125	250	500	1000	2000	4000	8000
				NOISE LEVELS - dB (re: 1 picowatt)							
1. 0-2	0	900	0	0	0	0	0	0	0	0	0
2. 2-3	0	900	0	0	0	0	0	0	0	0	0
3. 3-5	19	900	89	67	73	78	84	86	83	79	75
TOTAL Lw IN ROOM =	19.0		89	67	73	78	84	86	83	79	75

ROOM ABSORPTION, Length = 13.4 Width= 5.0 m, Height = 2.8 metres = 188 m^3
Total Surface Area = 237 Square Metres

20.1				Ave Absorption Co=efficients							
Ave Absorption Coefficicent =	BEDROOM with pb ceiling, brick walls/cement render and carpet floor			63	125	250	500	1000	2000	4000	8000
				0.08	0.08	0.09	0.10	0.12	0.15	0.11	0.15
Absorption =				19	19	21	24	28	36	26	36
Reverberant Lp Inside Room =			81	60	66	70	76	77	73	71	65
Barrier 1. 15.01 Windows (NW	Wintec aluminium awning window, 4 mm glass, Q lon seals			Octave Band Centre Frequencies - Hz							
			dBA	63	125	250	500	1000	2000	4000	8000
	Direct Lp Inside Barrier	Input	75.4	53	59	64	70	72	69	65	61
	Comb'd Lp Inside Barrier		81.9	60	66	71	77	78	75	72	67
No: Dist.	Trial Combined Lw Inside Barrier		81.9	60	66	71	77	78	75	72	67
1. 0	Effective Reverb Lp Inside Barrier		81.9	60	66	71	77	78	75	72	67
2. 0	Barrier Sound Trans. Loss	Rw =	27	20	18	21	26	26	29	28	35
3. 2	Area of Barrier, m^2 =	1									
4. 0	Lw Outside Barrier		51.7	37	45	46	48	49	42	40	29
6.	Safety Factor =	0		0	0	0	0	0	0	0	0
7.	No. of Same Barrier Paths =	1		0	0	0	0	0	0	0	0
8.	Distance Loss Distance (m) =	40		40	40	40	40	40	40	40	40
9.	Air Absorption							0	0	1	2
	Screen Wall Loss (eff. H=)	0.3		5	5	5	5	5	6	7	8
	Lp Contribution at Receptor =		6.0	-8.3	-0.3	0.8	2.5	3.2	-3.6	-7.0	-21.3
	(A weighted level =)			-34.5	-16.4	-7.8	-0.7	3.2	-2.4	-6.0	-22.4
Barrier 2. 15.01 Skylight	Wintec aluminium awning window, 4 mm glass, Q lon seals			Octave Band Centre Frequencies - Hz							
			dBA	63	125	250	500	1000	2000	4000	8000
Dist Source to Barrier	Direct Lp Inside Barrier		75.4	53	59	64	70	72	69	65	61
	Comb'd Lp Inside Barrier		81.9	60	66	71	77	78	75	72	67
No: Dist.	Trial Combined Lw Inside Barrier		61.9	40	46	51	57	58	55	52	47
1. 0	Effective Reverb Lp Inside Barrier		81.9	60	66	71	77	78	75	72	67
2. 0	Barrier Sound Trans. Loss	Rw =	27	20	18	21	26	26	29	28	35
3. 2	Area of Barrier, m^2 =	0.0									
4. 0	Lw Outside Barrier		31.7	17	25	26	28	29	22	20	9
6.	Safety Factor =	0		0	0	0	0	0	0	0	0
7.	No. of Same Barrier Paths =	1		0	0	0	0	0	0	0	0
8.	Distance (Loss) metre =	31		38	38	38	38	38	38	38	38
9.	Air Absorption							0	0	0	2
	Screen Wall Loss (eff. H=)	1.8		8	10	12	15	18	21	24	24
	Lp Contribution at Receptor =		0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
	(A weighted level =)			-26.2	-16.1	-8.6	-3.2	0.0	1.2	1.0	-1.1
Barrier 3. 40.01	CSR 140 Clay Brick Wall			Octave Band Centre Frequencies - Hz							
			dBA	63	125	250	500	1000	2000	4000	8000
Dist Source to Barrier	Direct Lp Inside Barrier		75.4	53	59	64	70	72	69	65	61
	Comb'd Lp Inside Barrier		81.9	60	66	71	77	78	75	72	67
No: Dist.	Trial Combined Lw Inside Barrier		61.9	40	46	51	57	58	55	52	47
1. 0	Effective Reverb Lp Inside Barrier		81.9	60	66	71	77	78	75	72	67
2. 0	Barrier Sound Trans. Loss	Rw =	39	33	33	31	38	42	40	47	52
3. 2	Area of Barrier, m^2 =	0									
4. 0	Lw Outside Barrier		18.1	4	10	16	15	13	12	1	-8
6.	Safety Factor =	0		0	0	0	0	0	0	0	0
7.	No. of Same Barrier Paths =	1		0	0	0	0	0	0	0	0
8.	Distance (Loss) metre =	31		38	38	38	38	38	38	38	38
9.	Air Absorption							0	0	0	2
	Screen Wall Loss (eff. H=)										
	Lp Contribution at Receptor =		0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
	(A weighted level =)			-26.2	-16.1	-8.6	-3.2	0.0	1.2	1.0	-1.1
Barrier 4. 40.01	CSR 140 Clay Brick Wall			Octave Band Centre Frequencies - Hz							
			dBA	63	125	250	500	1000	2000	4000	8000
Dist Source to Barrier	Direct Lp Inside Barrier		75.4	53	59	64	70	72	69	65	61
	Comb'd Lp Inside Barrier		81.9	60	66	71	77	78	75	72	67
No: Dist.	Trial Combined Lw Inside Barrier		61.9	40	46	51	57	58	55	52	47
1. 0	Effective Reverb Lp Inside Barrier		81.9	60	66	71	77	78	75	72	67
2. 0	Barrier Sound Trans. Loss	Rw =	39	33	33	31	38	42	40	47	52
3. 2	Area of Barrier, m^2 =	0									
4. 0	Lw Outside Barrier		18.1	4	10	16	15	13	12	1	-8
6.	Safety Factor =	0		0	0	0	0	0	0	0	0
7.	No. of Same Barrier Paths =	1		0	0	0	0	0	0	0	0
8.	Distance (Loss) metre =	31		38	38	38	38	38	38	38	38
9.	Air Absorption							0	0	0	2
	Screen Wall Loss (eff. H=)										
	Ground Absorption =										
	Lp Contribution at Receptor =		0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
	(A weighted level =)			-26.2	-16.1	-8.6	-3.2	0.0	1.2	1.0	-1.1
ADD OUTSIDE Lp CONTRIBUTIONS			dBA	63	125	250	500	1000	2000	4000	8000
Total Lp Contribution from ROOM =			14	6	7	7	8	8	6	6	6
(A weighted level =)				-16.6	-6.1	1.5	7.1	10.5	10.9	10.6	8.4
Noise Level Criterion =			39	dBA							

ROOM NOISE EMISSION COMPUTATION (ROOMOUT.XLS) Version 7.00

DAY DESIGN PTY LTD
Engineer: SG/BL
Project No: 7460-1
Date: 5-May-2022
Atmosphere:
RH% 90.0

Client . . . . . Boskovitz Lawyers
Project Title. . . . . 26 Beattie Ave, Denistone East
Room Description . . . . Indoor_4
Receptor Location. . . . R4
Noise Criterion . . . . . 39 dBA

Lw of NOISE SOURCES INSIDE ROOM	Number	Duration	dBA	63	125	250	500	1000	2000	4000	8000
1. 0-2	0	900	0	0	0	0	0	0	0	0	0
2. 2-3	0	900	0	0	0	0	0	0	0	0	0
3. 3-5	19	900	89	67	73	78	84	86	83	79	75
TOTAL Lw IN ROOM =	19.0		89	67	73	78	84	86	83	79	75

NOISE LEVELS - dB (re: 1 picowatt)

ROOM ABSORPTION, Length = 13.4 Width= 5.0 m, Height = 2.8 metres = 188 m^3
Total Surface Area = 237 Square Metres

20.1				Ave Absorption Co=efficients 63	125	250	500	1000	2000	4000	8000
Ave Absorption Coefficicent =	BEDROOM with pb ceiling, brick walls/cement render and carpet floor			0.08	0.08	0.09	0.10	0.12	0.15	0.11	0.15
Absorption =				19	19	21	24	28	36	26	36
Reverberant Lp Inside Room =			81	60	66	70	76	77	73	71	65
Barrier 1. 15.01 Windows (NW)	Wintec aluminium awning window, 4 mm glass, Q lon seals		dBA	Octave Band Centre Frequencies - Hz 63	125	250	500	1000	2000	4000	8000
	Direct Lp Inside Barrier	Input	75.4	53	59	64	70	72	69	65	61
	Comb'd Lp Inside Barrier		81.9	60	66	71	77	78	75	72	67
No: Dist.	Trial Combined Lw Inside Barrier		81.9	60	66	71	77	78	75	72	67
1. 0	Effective Reverb Lp Inside Barrier		81.9	60	66	71	77	78	75	72	67
2. 0	Barrier Sound Trans. Loss	Rw =	27	20	18	21	26	26	29	28	35
3. 2	Area of Barrier, m^2 =	1									
4. 0	Lw Outside Barrier		51.7	37	45	46	48	49	42	40	29
6.	Safety Factor =	0		0	0	0	0	0	0	0	0
7.	No. of Same Barrier Paths =	1		0	0	0	0	0	0	0	0
8.	Distance Loss Distance (m) =	36		39	39	39	39	39	39	39	39
9.	Air Absorption							0	0	0	2
	Screen Wall Loss (eff. H=)	-0.2		5	5	5	5	5	5	4	3
	Lp Contribution at Receptor =		7.8	-7.4	0.7	1.9	3.8	4.8	-1.3	-3.5	-15.6
	(A weighted level =)			-33.6	-15.4	-6.7	0.6	4.8	-0.1	-2.5	-16.7
Barrier 2. 15.01 Skylight	Wintec aluminium awning window, 4 mm glass, Q lon seals		dBA	Octave Band Centre Frequencies - Hz 63	125	250	500	1000	2000	4000	8000
Dist Source to Barrier	Direct Lp Inside Barrier		75.4	53	59	64	70	72	69	65	61
	Comb'd Lp Inside Barrier		81.9	60	66	71	77	78	75	72	67
No: Dist.	Trial Combined Lw Inside Barrier		83.5	62	68	73	79	80	76	73	68
1. 0	Effective Reverb Lp Inside Barrier		81.9	60	66	71	77	78	75	72	67
2. 0	Barrier Sound Trans. Loss	Rw =	27	20	18	21	26	26	29	28	35
3. 2	Area of Barrier, m^2 =	1.4									
4. 0	Lw Outside Barrier		53.3	38	46	48	49	50	44	42	30
6.	Safety Factor =	0		0	0	0	0	0	0	0	0
7.	No. of Same Barrier Paths =	1		0	0	0	0	0	0	0	0
8.	Distance (Loss) metre =	31		38	38	38	38	38	38	38	38
9.	Air Absorption							0	0	0	2
	Screen Wall Loss (eff. H=)	-0.1		5	5	5	5	5	5	5	5
	Lp Contribution at Receptor =		2.4	-12.5	-4.5	-3.2	-1.4	-0.5	-6.8	-9.2	-21.7
	(A weighted level =)			-38.7	-20.6	-11.8	-4.6	-0.5	-5.6	-8.2	-22.8
Barrier 3. 40.01	CSR 140 Clay Brick Wall		dBA	Octave Band Centre Frequencies - Hz 63	125	250	500	1000	2000	4000	8000
Dist Source to Barrier	Direct Lp Inside Barrier		75.4	53	59	64	70	72	69	65	61
	Comb'd Lp Inside Barrier		81.9	60	66	71	77	78	75	72	67
No: Dist.	Trial Combined Lw Inside Barrier		61.9	40	46	51	57	58	55	52	47
1. 0	Effective Reverb Lp Inside Barrier		81.9	60	66	71	77	78	75	72	67
2. 0	Barrier Sound Trans. Loss	Rw =	39	33	33	31	38	42	40	47	52
3. 2	Area of Barrier, m^2 =	0									
4. 0	Lw Outside Barrier		18.1	4	10	16	15	13	12	1	-8
6.	Safety Factor =	0		0	0	0	0	0	0	0	0
7.	No. of Same Barrier Paths =	1		0	0	0	0	0	0	0	0
8.	Distance (Loss) metre =	31		38	38	38	38	38	38	38	38
9.	Air Absorption							0	0	0	2
	Screen Wall Loss (eff. H=)										
	Lp Contribution at Receptor =		0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
	(A weighted level =)			-26.2	-16.1	-8.6	-3.2	0.0	1.2	1.0	-1.1
Barrier 4. 40.01	CSR 140 Clay Brick Wall		dBA	Octave Band Centre Frequencies - Hz 63	125	250	500	1000	2000	4000	8000
Dist Source to Barrier	Direct Lp Inside Barrier		75.4	53	59	64	70	72	69	65	61
	Comb'd Lp Inside Barrier		81.9	60	66	71	77	78	75	72	67
No: Dist.	Trial Combined Lw Inside Barrier		61.9	40	46	51	57	58	55	52	47
1. 0	Effective Reverb Lp Inside Barrier		81.9	60	66	71	77	78	75	72	67
2. 0	Barrier Sound Trans. Loss	Rw =	39	33	33	31	38	42	40	47	52
3. 2	Area of Barrier, m^2 =	0									
4. 0	Lw Outside Barrier		18.1	4	10	16	15	13	12	1	-8
6.	Safety Factor =	0		0	0	0	0	0	0	0	0
7.	No. of Same Barrier Paths =	1		0	0	0	0	0	0	0	0
8.	Distance (Loss) metre =	31		38	38	38	38	38	38	38	38
9.	Air Absorption							0	0	0	2
	Screen Wall Loss (eff. H=)										
	Ground Absorption =										
	Lp Contribution at Receptor =		0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
	(A weighted level =)			-26.2	-16.1	-8.6	-3.2	0.0	1.2	1.0	-1.1
ADD OUTSIDE Lp CONTRIBUTIONS			dBA	63	125	250	500	1000	2000	4000	8000
Total Lp Contribution from ROOM =			14	5	7	7	8	8	6	6	5
(A weighted level =)				-17.0	-6.3	1.4	7.3	10.8	10.7	10.3	7.9
Noise Level Criterion =			39	dBA							

ROOM NOISE EMISSION COMPUTATION (ROOMOUT.XLS) Version 7.00

DAY DESIGN PTY LTD
Engineer: SG/BL
Project No: 7460-1
Date: 5-May-2022
Atmosphere:
RH% 90.0

Client . . . . . Boskovitz Lawyers
Project Title. . . . . 26 Beattie Ave, Denistone East
Room Description . . . . Indoor_4
Receptor Location. . . . R5
Noise Criterion . . . . . 39 dBA

Lw of NOISE SOURCES INSIDE ROOM	Number	Duration	dBA	NOISE LEVELS - dB (re: 1 picowatt) 63	125	250	500	1000	2000	4000	8000
1. 0-2	0	900	0	0	0	0	0	0	0	0	0
2. 2-3	0	900	0	0	0	0	0	0	0	0	0
3. 3-5	19	900	89	67	73	78	84	86	83	79	75
TOTAL Lw IN ROOM =	19.0		89	67	73	78	84	86	83	79	75

ROOM ABSORPTION, Length = 13.4 Width= 5.0 m, Height = 2.8 metres = 188 m^3
Total Surface Area = 237 Square Metres

20.1				Ave Absorption Coefficients 63	125	250	500	1000	2000	4000	8000
Ave Absorption Coefficient =	BEDROOM with pb ceiling, brick walls/cement render and carpet floor			0.08	0.08	0.09	0.10	0.12	0.15	0.11	0.15
Absorption =				19	19	21	24	28	36	26	36
Reverberant Lp Inside Room =			81	60	66	70	76	77	73	71	65
Barrier 1. 15.01 Windows (NW	Wintec aluminium awning window, 4 mm glass, Q lon seals		dBA	Octave Band Centre Frequencies - Hz 63	125	250	500	1000	2000	4000	8000
	Direct Lp Inside Barrier	Input	75.4	53	59	64	70	72	69	65	61
	Comb'd Lp Inside Barrier		81.9	60	66	71	77	78	75	72	67
No: Dist.	Trial Combined Lw Inside Barrier		81.9	60	66	71	77	78	75	72	67
1. 0	Effective Reverb Lp Inside Barrier		81.9	60	66	71	77	78	75	72	67
2. 0	Barrier Sound Trans. Loss	Rw =	27	20	18	21	26	26	29	28	35
3. 2	Area of Barrier, m^2 =	1									
4. 0	Lw Outside Barrier		51.7	37	45	46	48	49	42	40	29
6.	Safety Factor =	0		0	0	0	0	0	0	0	0
7.	No. of Same Barrier Paths =	1		0	0	0	0	0	0	0	0
8.	Distance Loss Distance (m) =	33		38	38	38	38	38	38	38	38
9.	Air Absorption							0	0	0	2
	Screen Wall Loss (eff. H=)	0.2		5	5	5	5	5	6	6	7
	Lp Contribution at Receptor =		7.9	-6.7	1.4	2.6	4.2	5.1	-1.6	-4.7	-18.4
	(A weighted level =)			-32.9	-14.7	-6.0	1.0	5.1	-0.4	-3.7	-19.5
Barrier 2. 15.01 Skylight	Wintec aluminium awning window, 4 mm glass, Q lon seals		dBA	Octave Band Centre Frequencies - Hz 63	125	250	500	1000	2000	4000	8000
Dist Source to	Direct Lp Inside Barrier		75.4	53	59	64	70	72	69	65	61
Barrier	Comb'd Lp Inside Barrier		81.9	60	66	71	77	78	75	72	67
No: Dist.	Trial Combined Lw Inside Barrier		83.5	62	68	73	79	80	76	73	68
1. 0	Effective Reverb Lp Inside Barrier		81.9	60	66	71	77	78	75	72	67
2. 0	Barrier Sound Trans. Loss	Rw =	27	20	18	21	26	26	29	28	35
3. 2	Area of Barrier, m^2 =	1.4									
4. 0	Lw Outside Barrier		53.3	38	46	48	49	50	44	42	30
6.	Safety Factor =	0		0	0	0	0	0	0	0	0
7.	No. of Same Barrier Paths =	3		5	5	5	5	5	5	5	5
8.	Distance (Loss) metre =	31		38	38	38	38	38	38	38	38
9.	Air Absorption							0	0	0	2
	Screen Wall Loss (eff. H=)	0.1		5	5	5	5	5	5	5	6
	Lp Contribution at Receptor =		7.0	-7.8	0.3	1.5	3.2	4.1	-2.3	-5.1	-18.2
	(A weighted level =)			-34.0	-15.8	-7.1	0.0	4.1	-1.1	-4.1	-19.3
Barrier 3. 40.01	CSR 140 Clay Brick Wall		dBA	Octave Band Centre Frequencies - Hz 63	125	250	500	1000	2000	4000	8000
Dist Source to	Direct Lp Inside Barrier		75.4	53	59	64	70	72	69	65	61
Barrier	Comb'd Lp Inside Barrier		81.9	60	66	71	77	78	75	72	67
No: Dist.	Trial Combined Lw Inside Barrier		61.9	40	46	51	57	58	55	52	47
1. 0	Effective Reverb Lp Inside Barrier		81.9	60	66	71	77	78	75	72	67
2. 0	Barrier Sound Trans. Loss	Rw =	39	33	33	31	38	42	40	47	52
3. 2	Area of Barrier, m^2 =	0									
4. 0	Lw Outside Barrier		18.1	4	10	16	15	13	12	1	-8
6.	Safety Factor =	0		0	0	0	0	0	0	0	0
7.	No. of Same Barrier Paths =	1		0	0	0	0	0	0	0	0
8.	Distance (Loss) metre =	31		38	38	38	38	38	38	38	38
9.	Air Absorption							0	0	0	2
	Screen Wall Loss (eff. H=)										
	Lp Contribution at Receptor =		0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
	(A weighted level =)			-26.2	-16.1	-8.6	-3.2	0.0	1.2	1.0	-1.1
Barrier 4. 40.01	CSR 140 Clay Brick Wall		dBA	Octave Band Centre Frequencies - Hz 63	125	250	500	1000	2000	4000	8000
Dist Source to	Direct Lp Inside Barrier		75.4	53	59	64	70	72	69	65	61
Barrier	Comb'd Lp Inside Barrier		81.9	60	66	71	77	78	75	72	67
No: Dist.	Trial Combined Lw Inside Barrier		61.9	40	46	51	57	58	55	52	47
1. 0	Effective Reverb Lp Inside Barrier		81.9	60	66	71	77	78	75	72	67
2. 0	Barrier Sound Trans. Loss	Rw =	39	33	33	31	38	42	40	47	52
3. 2	Area of Barrier, m^2 =	0									
4. 0	Lw Outside Barrier		18.1	4	10	16	15	13	12	1	-8
6.	Safety Factor =	0		0	0	0	0	0	0	0	0
7.	No. of Same Barrier Paths =	1		0	0	0	0	0	0	0	0
8.	Distance (Loss) metre =	31		38	38	38	38	38	38	38	38
9.	Air Absorption							0	0	0	2
	Screen Wall Loss (eff. H=)										
	Ground Absorption =										
	Lp Contribution at Receptor =		0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
	(A weighted level =)			-26.2	-16.1	-8.6	-3.2	0.0	1.2	1.0	-1.1
ADD OUTSIDE Lp CONTRIBUTIONS			dBA	63	125	250	500	1000	2000	4000	8000
Total Lp Contribution from ROOM =			14	5	7	8	9	9	6	6	5
(A weighted level =)				-17.0	-5.9	1.9	7.9	11.4	10.9	10.4	7.9
Noise Level Criterion =			39	dBA							

7460-1 Appendix D43

Outdoor Noise Propagation Computation (Propout.xls)
Version

DAY DESIGN PTY LTD
Engineer: BL
Project no: 7460-1
Date:

Client ..... Boskovitz Lawyers
Project Title ..... 26 Beattie Ave, Denistone East
Operation .....

Notes:
Open the Excel Tools/Addins and tick "Analysis Tool Pack"
Enter Rectangular Duct dimensions in Column "P" to determine the
taking into account the dimension of the duct in the direction of int
When copying Spreadsheet, use Edit/Move or Copy Sheet/Create a

64 kids
12.8 cars trips per 15min

Atmosphere:
Temp 20
RH% 80

Receptor Location. .....

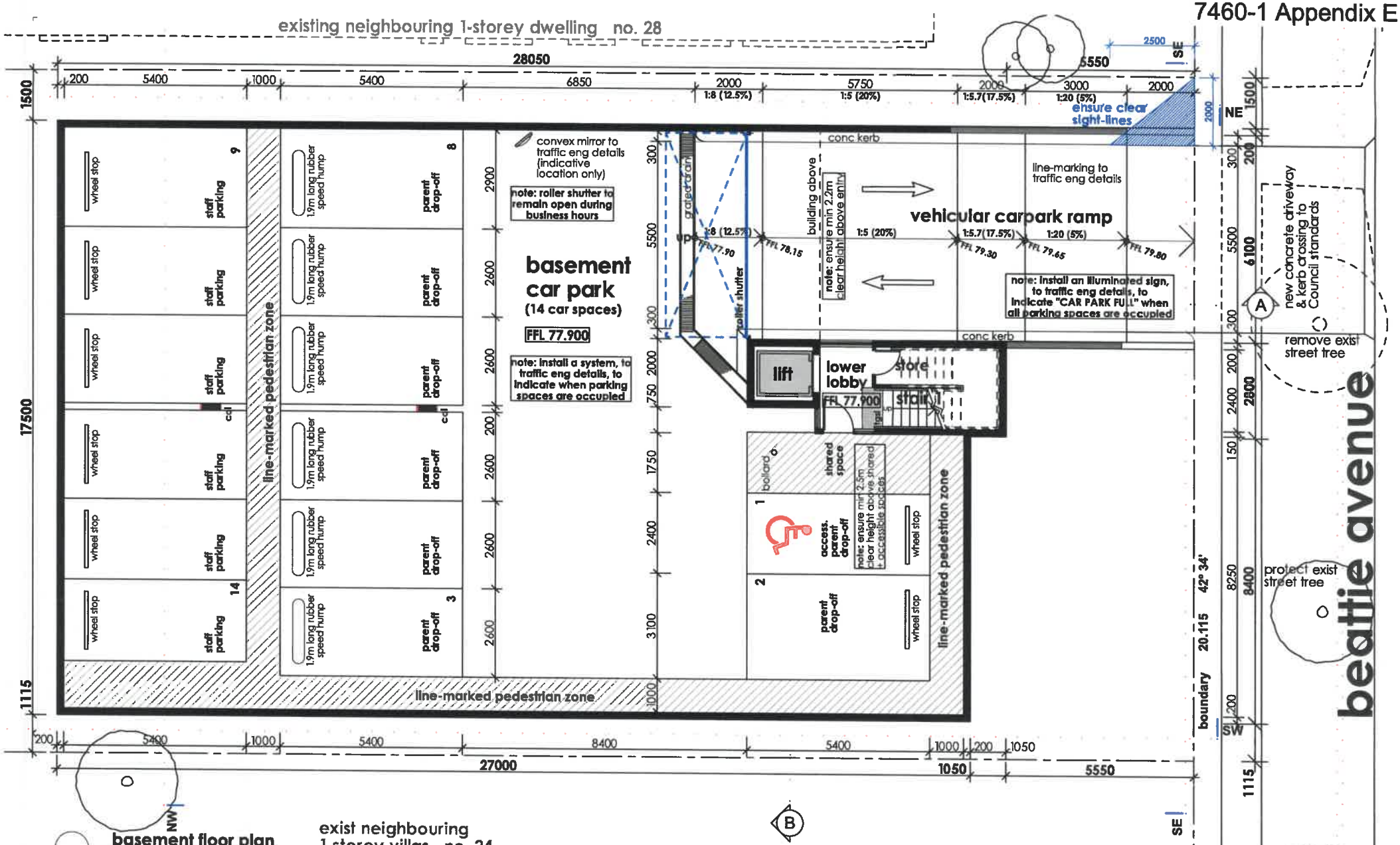
Noise Criterion ..... 39 dBA at residence any time
Predicted Lp at Receptor = 36 dBA

	dBA	63	125	250	500
	81	86	81	78	77
	84	93	85	82	80
	82	90	87	80	78

	Description	Comments	Input		Noise Levels - dB							
2				dBA	63	125	250	500	1000	2000	4000	8000
	SEL Car Uphill 10 kmh		R2A		90	87	80	78	77	72	70	64
	Sound Power Level...		Leq	82	90	87	80	78	77	72	70	64
	Energy Distribution	Q	2		0	0	0	0	0	0	0	0
	Multiple Units	Number	13		11	11	11	11	11	11	11	11
	Safety Factor	usually 3	3		3	3	3	3	3	3	3	3
	Distance Loss	Dist (m)	14		31	31	31	31	31	31	31	31
	Air Absorption =								0	0	0	1
	Wall / Roof Directivity	from normal										
	Duct Directivity Loss	Angle										
		Equiv Diam (m)										
	True Height of Barrier	Actual (m)	1.2	0.2	5	5	5	6	6	7	9	11
		Path length differenc	0.01									
	time correction		5.0		23	23	23	23	23	23	23	23
	Lp Contribution at Receptor:			86	46	43	35	33	32	25	22	18
				dBA	19	26	27	30	32	27	23	12

Barrier Loss Calc'n		Normal Weather Conditic
Distances		Reference Heights
Source to Barrier	11	Source 80.3
Barrier to Recep	3	Receptor 81.8
Eff wall Height	0.2	Barrier Base 80.6
Path length diff	0.01	

	63	125	250	500
Screen Wall Loss =	5.1	5.2	5.3	5.6
Dist. Comp'n :	30.9	30.9	30.9	30.9
Wall Directivity	0.0	0.0	0.0	0.0
Duct Directivity	69	125	250	500
Where: A =	4	duct width (metres) in direct		
B =	4	duct width (metres) normal t		
Strouhal Number	0.20	0.20	0.20	0.20
Directivity Factor	2.03	2.03	2.03	2.03
dBA				
	96.1	45.6	42.5	35.4	33.1



basement floor plan

1:100

rev / date	description	status
A 08-10-2021	for L&EC submission only.	not for construction
A1 14-10-2021	revised. for L&EC submission only.	not for construction
A2 21-10-2021	revised. for L&EC submission only.	not for construction
A3 08-11-2021	revised. for L&EC submission only.	not for construction

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exist neighbouring 1-storey villas no. 24

general notes

use figured dimensions only. do not scale from drawings. dimensions are in millimetres (unless noted otherwise). verify all dimensions & levels on site before construction. report all discrepancies to the architect. If in doubt - ASK. all work must comply with NCC/BCA, standards & authority codes. read this drawing together with other consultants documents. structural, hydraulic & geotechnical work to engineers details.

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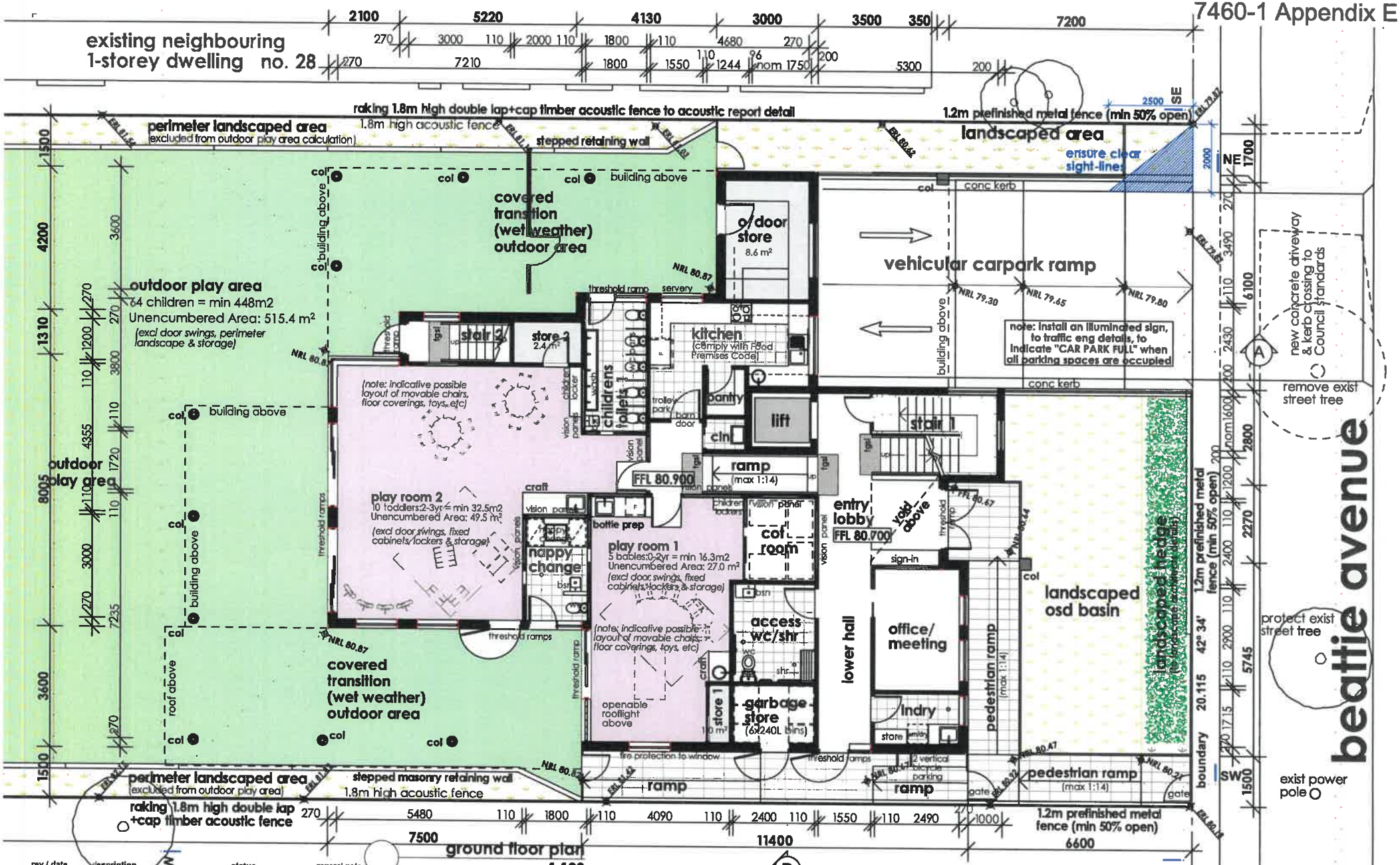
project
proposed childcare centre
26 beattie avenue
denistone east
drawing
basement floor plan

scale	1:100
drawn	CAD
designed	ADZ
checked	ADZ
plot date	13/11/21
project no.	drwg no. issue
1945A	LEC-02 A3

protect exist street tree @ A3 true north
N



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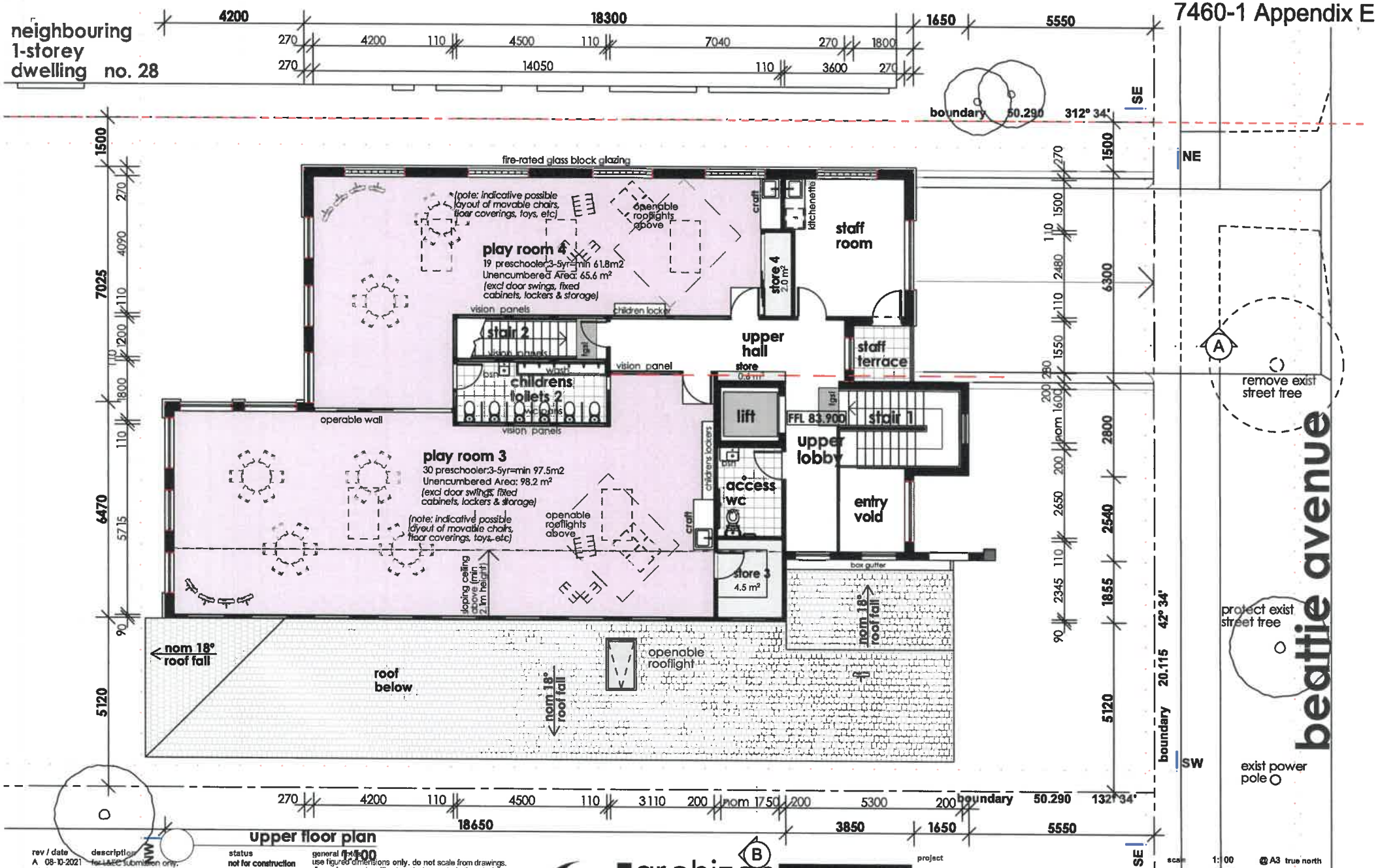
project
proposed childcare centre
26 beattie avenue
denistone east
drawing
ground floor plan

scale	1:100 @ A3 true north
drawn	CAD
designed	ADZ
checked	ADZ
plot date	13/11/21
project no.	drwg no. issue

1945A LEC-03 A3



upper floor plan

1:100

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