



Proposed Residential Development
101-11 Mount Gravatt Capalaba Rd & 30 Mascar St
Upper Mount Gravatt

ACOUSTIC REPORT



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Scas Leaf 4Pty Ltd

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1. Introduction

This report is in response to a request by Scas Leaf 4 Pty Ltd for a road traffic noise assessment of the proposed residential development to be located at 101-111 Mount Gravatt-Capalaba Road, Upper Mount Gravatt. To facilitate the assessment, unattended noise monitoring was conducted to establish the noise criteria for the site and determine the existing traffic noise levels associated Mount Gravatt-Capalaba Road. Based on the outcomes of the assessment, recommendations for acoustic treatments and management controls are specified in this report.

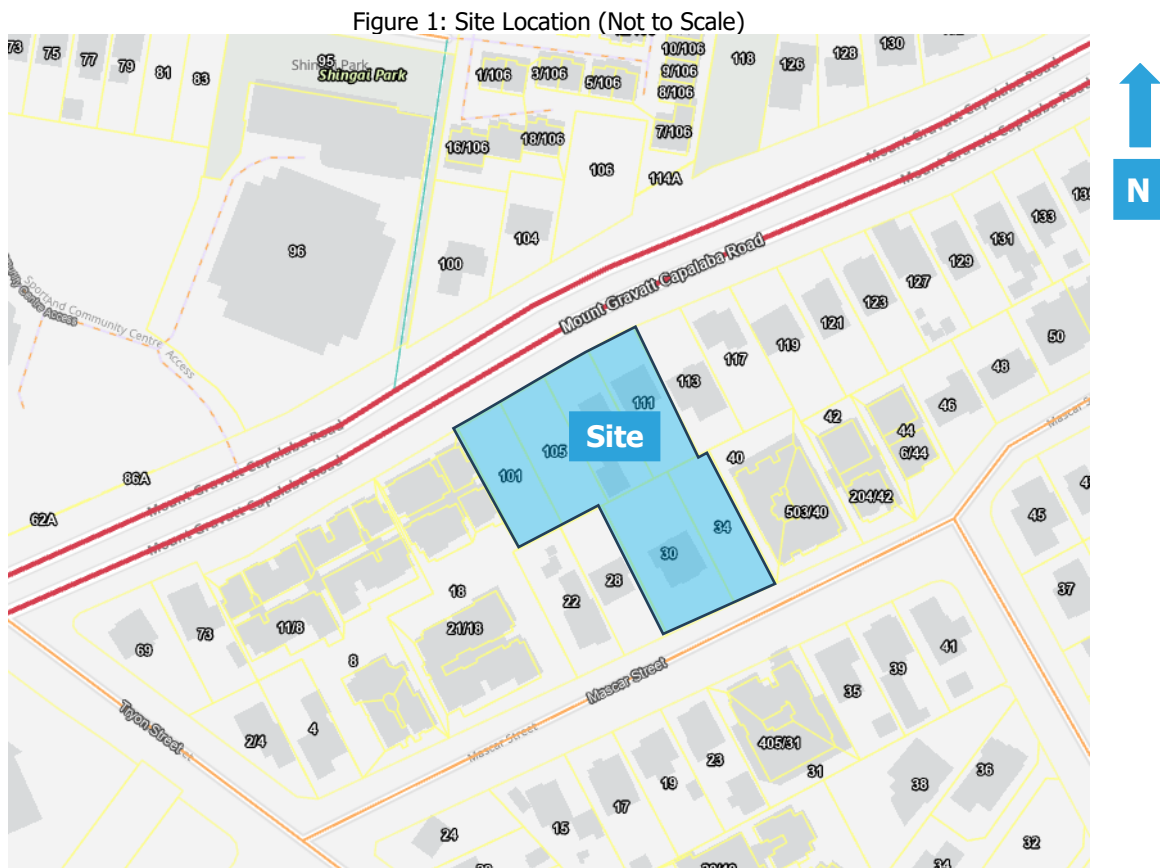
2. Site Description

2.1 Site Location

The proposed site is described by the following:

101-111 Mount Gravatt-Capalaba Road & 30 Mascar Street, Upper Mount Gravatt
Lots 9-12 on RP70000 & Lots 18-19 on RP70001

Refer to Figure 1 for site location.



A site survey was conducted on 16 November 2025 and identified the following:

- One and two-storey residential dwellings currently occupy the site and shall be demolished to make way for the proposed development.
- An eight-storey residential building bounds the site to the southeast.

- c) The Mount Gravatt Capalaba Road bounds the site to the north, separating the development from residential land uses.
- d) A two- storey residential dwelling bound the site to the southeast.
- e) A single storey residential dwelling bounds the site to the northwest.
- f) A four storey residential building is located to the northwest of the site.

2.2 Proposal

The proposal is to construct a residential development as follows:

- Total site area of 4,599m².
- Three residential buildings to be located on the site consisting of the following:
 - Tower 1 (Stage 1) – 64 units (2,3 and 4 bed) across Levels 1-8;
 - Tower 2 (Stage 1) – 59 units (1,2 and 3) across Levels 1-8;
 - Tower 3 (Stage 2) – 52 units (1,2 and 3) across Levels 1-8.
- Communal rooftop spaces in Towers 1-3 include a children's playground, open recreational area, BBQ area and private open spaces.
- A private balcony will be provided for all units.
- A communal gym, library lounge, podcast offices, function/meeting room and amenities are located on level 1 of Tower 1.
- 270 resident and 44 visitor carparks will be provided on the basements and ground level.
- Site access via Mount Gravatt-Capalaba Road.

2.3 Acoustic Environment

The site and surrounding area are primarily affected by road traffic noise from Mount Gravatt-Capalaba Road.

3. Equipment

The following equipment was used to record noise levels:

- Rion NL42 Environmental Noise Monitor
- Pulsar Model 105 Sound Calibrator

The sound monitoring equipment holds current NATA Laboratory Certification and was field calibrated before and after the monitoring period, with no significant drift from the reference signal recorded.

4. Unattended Noise Monitoring

A Rion NL42 road traffic noise monitor was placed at 143 Mount Gravatt Capalaba Road, approximately 10m from the nearest lane to measure road traffic noise levels. The monitor was located in a free field position with the microphone approximately 1.4 metres above ground level. The noise monitor was set to record noise levels between the 6 November and 13 November 2025.

The road traffic noise monitor was set to record noise levels in "A" Weighting, Fast response using 1-hour statistical intervals. Road traffic conducted in accordance with Australian Standard *AS2702:1984 'Acoustics - Methods for the measurement of road traffic noise'*.

For the unattended noise monitoring location refer to Figure 2.

Figure 2: Noise Monitoring Location



5. Measured Noise Levels

The following tables present the measured road traffic noise levels from the unattended noise survey. Any periods of inclement weather or extraneous noise are excluded from the measured data prior to determining the results.

5.1 Meteorological Conditions

Meteorological observations during the unattended noise monitoring survey were obtained from the Bureau of Meteorology website (<http://www.bom.gov.au/climate/data>) (040211), shown in Table 1 below.

Table 1: Meteorological Conditions – Archerfield

Day	Date	Rainfall (mm)	Wind			
			9am		3pm	
			Direction	Speed (km/h)	Direction	Speed (km/h)
Thursday	6/11/2025	0	ESE	9	E	22
Friday	7/11/2025	0	NE	13	ENE	19
Saturday	8/11/2025	0	N	9	NNE	28
Sunday	9/11/2025	2.4	NW	11	NNW	13
Monday	10/11/2025	0	S	15	SE	22
Tuesday	11/11/2025	0.4	W	7	NNE	24
Wednesday	12/11/2025	0	SSE	15	E	24
Thursday	13/11/2025	0	N	19	NNE	30

5.2 Noise Monitor 2: Road Traffic Noise Levels

The road traffic noise levels measured at the monitoring location are as follows;

Table 2: Measured road traffic noise levels – All time periods

Day	Date	L10(18h)	Leq(1h) Day	Leq(1h) Night	L90(8h)	L90(18h)
Thursday	6/11/2025	74	73	70	49	56
Friday	7/11/2025	75	73	74	48	58
Saturday^	8/11/2025	74	72	71	45	57
Sunday^	9/11/2025	74	72	68	42	55
Monday	10/11/2025	75	74	74	45	58
Tuesday	11/11/2025	75	74	74	46	58
Wednesday	12/11/2025	75	74	74	46	58
Thursday	13/11/2025	77	73	74	47	58
Overall value		75.3	74	73	47	58

^The proposed development is located within a state-controlled transport noise corridor overlay. To be consistent with the advice in Section 4.3.1.2 of the Transport Noise Management Code of Practice, road traffic data for weekend periods was not utilised in the assessment. The code specifies that measurements of traffic noise shall not be conducted during periods of atypical traffic flows. Periods of atypical traffic flows and patterns generally include weekends, school and public holidays.

Refer to the Appendices for a graphical representation of the noise monitoring.

6. Noise Criteria

6.1 Road Traffic Noise Criteria

As the development is located near a state controlled road (Mount Gravatt Capalaba Road) the SDAP criteria detailed in sections below applies.

6.1.1 State Development Assessment Provisions (SDAP)

The criteria applied are in accordance with the *SDAP* Version 3.5 dated 12 December 2025 by the Department of State Development, Manufacturing, Infrastructure and Planning. The *SDAP State Code 1: Development in a state-controlled road environment* sets out matters of interest for the assessment of developments near state-controlled roads or multi-modal corridors. The applicable criteria for the development in the year 2036 (ten-year planning horizon) requires road traffic noise to be assessed in accordance with Table 1.5 of the policy statement as follows;

Table 3: SDAP Road Traffic Noise Criteria

Material change of use (accommodation activity)	
Ground floor level requirements adjacent to a state-controlled road or type 1 multi-modal corridor	
P039 Development minimises noise intrusion from a state-controlled road in private open space.	AO39.1 Development provides a noise barrier or earth mound which is designed, sited and constructed: 1. to achieve the maximum free field acoustic levels in reference table 2 (item 2.2) for private open space at the ground floor level; 2. in accordance with: a. Chapter 7 integrated noise barrier design of the Transport Noise Management Code of Practice: Volume 1 (Road Traffic Noise), Department of Transport and Main Roads, 2013; b. Technical Specification-MRTS15 Noise Fences, Transport and Main Roads, 2019; c. Technical Specification-MRTS04 General Earthworks, Transport and Main Roads, 2020. OR AO39.2 Development achieves the maximum free field acoustic level in reference table 2 (item 2.2) for private open space by alternative noise attenuation measures where it is not practical to provide a noise barrier or earth mound.
P040 Development (excluding a relevant residential building or relocated building) minimises noise intrusion from a state controlled road in habitable rooms at the facade.	AO40.1 Development (excluding a relevant residential building or relocated building) provides a noise barrier or earth mound which is designed, sited and constructed: 1. to achieve the maximum building façade acoustic level in reference table 1 (item 1.1) for habitable rooms; 2. in accordance with: a. Chapter 7 integrated noise barrier design of the Transport Noise Management Code of Practice: Volume 1 (Road Traffic Noise), Department of Transport and Main Roads, 2013; b. Technical Specification-MRTS15 Noise Fences, Transport and Main Roads, 2019; c. Technical Specification-MRTS04 General Earthworks, Transport and Main Roads, 2020. OR AO40.2 Development (excluding a relevant residential building or relocated building) achieves the maximum building façade acoustic level in reference table 1 (item 1.1) for habitable rooms by alternative noise attenuation measures where it is not practical to provide a noise barrier or earth mound.

P041 Habitable rooms (excluding a relevant residential building or relocated building) are designed and constructed using materials to achieve the maximum internal acoustic level in reference table 3 (item 3.1).	No acceptable outcome is provided.
Above ground floor level requirements (accommodation activity) adjacent to a state-controlled road or type 1 multi-modal corridor	
P042 Balconies, podiums, and roof decks include: 1. a continuous solid gap-free structure or balustrade (excluding gaps required for drainage purposes to comply with the Building Code of Australia); 2. highly acoustically absorbent material treatment for the total area of the soffit above balconies, podiums, and roof decks.	No acceptable outcome is provided.
P043 Habitable rooms (excluding a relevant residential building or relocated building) are designed and constructed using materials to achieve the maximum internal acoustic level in reference table 3 (item 3.1).	No acceptable outcome is provided.

Table 4: Table 1 of SDAP Maximum Building Façade Acoustic Levels (Table 1)

Applicable use	Acoustic levels
1.1: Accommodation activity	a. ≤ 60 dB(A) L10 (18 hour) façade corrected (measured L90 (8 hour) free field between 10pm and 6am ≤ 40 dB(A)) OR b. ≤ 63 dB(A) L10 (18 hour) façade corrected (measured L90 (8 hour) free field between 10pm and 6am > 40 dB(A))

Table 5: Table 2 of SDAP Maximum Free Field Acoustic Levels (Table 2)

Applicable use	Acoustic levels
2.2: Private open space for an accommodation activity (including lots created for a future accommodation activity)	a. ≤ 57 dB(A) L10 (18 hour) free field (measured L90 (18 hour) free field between 6am and 12 midnight ≤ 45 dB(A)) OR b. ≤ 60 dB(A) L10 (18 hour) free field (measured L90 (18 hour) free field between 6am and 12 midnight > 45 dB(A))

Table 6: Table 3 of SDAP Maximum Internal Acoustic Levels (Table 3)

Applicable use	Acoustic levels
3.1: Habitable rooms in an accommodation activity (excluding uses addressed in QDC MP4.4)	≤ 35 dB(A) Leq (1 hour) (maximum hour over 24 hours)

6.1.2 Queensland Development Code MP4.4

To determine the minimum design requirements for any new residential buildings located in a transport noise corridor, the Queensland Development Code Part 4.4 may be applied if no alternative solutions are provided. In accordance with MP4.4, the noise categories are stated in Table 7.

Table 7: Queensland Development Code Noise Categories

QDC Noise Category	Noise level L10 (18hr) dB(A) (including façade correction)
Category 4	≥ 73
Category 3	68-72
Category 2	63-67
Category 1	58-62
Category 0	≤ 57

The building treatment for any future development onsite shall be determined at Building Approval stage, in general accordance with the Queensland Development Code. Alternative solution may be provided on request.

7. Road Traffic Assessment

Road traffic noise associated with the surrounding road network was assessed at the development over a ten-year planning horizon.

7.1 Traffic Volumes

Traffic data for the Gold Coast Highway was obtained from the Transport and Main Roads Traffic Census. The nominated growth rate is specified as 2.0%. The data is presented in Table 8 below.

Table 8: Traffic Volumes

Location	2025 AADT	2036 Predicted AADT	Percentage of Heavy Vehicles
Mt Gravatt-Capalaba Road	44,105	53,764	9.65%

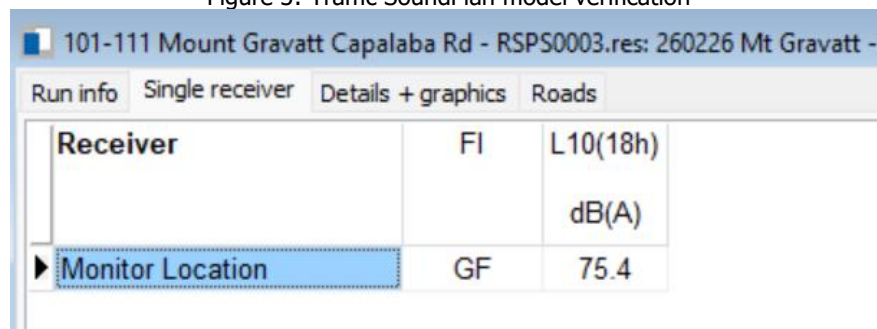
7.2 Road Traffic Noise Verification

To ensure the CoRTN noise model is accurate, a verification model of the predicted $L_{A10(18hr)}$ was created and compared to the measured noise level. The CoRTN method allows a 2dBA variation from the predicted and measured level, if the variation exceeds 2dBA a correction to the predicted level is required.

Table 9: Comparison of Measured and Predicted Noise Levels

Location	Measured $L_{A10(18hr)}$ dBA	Predicted $L_{A10(18hr)}$ dBA	Correction
Mt Gravatt-Capalaba Road	75.2	75.4	0

Figure 3: Traffic SoundPlan model verification



Receiver	FI	L10(18h)	dB(A)
Monitor Location	GF	75.4	

Inputs applied in the verification of the noise modelling are as follows:

- Mt Gravatt-Capalaba Road speed limit of 60km/h.
- Road Surface correction: -1dBA, as per the Transport Noise Code of Practice the road surface was identified as Stone Mastic Asphalt.
- Width of each Lane: 3.5m.
- -0.7dB(A) (Free field) corrections for Queensland Conditions.

7.3 Predicted Road Traffic Noise Levels - 2036

Road traffic noise modelling for the proposed development was based on the following information:

- Site layout, floor plans and elevations provided by VSA Design Architecture, dated 10/06/2026.
- Mt Gravatt-Capalaba Road speed limit Level 60km/h.
- +2.5dB façade correction.
- Receiver heights were set to 1.5m above finished floor level.
- -0.7dB(A) (Free field) and -1.7dB(A) (Façade) corrections for Queensland Conditions.
- Road Surface correction: -1dBA, as per the Transport Noise Code of Practice the road surface was identified as Stone Mastic Asphalt.

The 3D SoundPLAN CoRTN noise model predicts LA10,18hour levels as shown in Figure 4 to Figure 6 presents the predicted road traffic noise impacts for each unit.

Table 10: Predicted traffic noise levels - Year 2036 – Tower 3

Tower	Level	FFL	Unit	Room	Predicted Road Traffic Noise Impacts (Façade Corrected) 2036 (dBA)	
					LA10(18h)	QDC Category
Tower 3	1	55.75	Unit 1	Master Bedroom	70	3
Tower 3	1	55.75	Unit 1	Bed 2	63	2
Tower 3	1	55.75	Unit 1	Bed 3	60	1
Tower 3	1	55.75	Unit 1	Kitchen/Living/Dining	63	2
Tower 3	1	55.75	Unit 2	Master Bedroom	67	2
Tower 3	1	55.75	Unit 2	Bed 2	61	1
Tower 3	1	55.75	Unit 2	Kitchen/Living/Dining	67	2
Tower 3	1	55.75	Unit 3	Master Bedroom	66	2
Tower 3	1	55.75	Unit 3	Bed 2	60	1
Tower 3	1	55.75	Unit 3	Bed 3	58	1
Tower 3	1	55.75	Unit 3	Kitchen/Living/Dining	65	2
Tower 3	2	59.68	Unit 1	Master Bedroom	74	4
Tower 3	2	59.68	Unit 1	Bed 2	63	2
Tower 3	2	59.68	Unit 1	Kitchen/Living/Dining	71	3
Tower 3	2	59.68	Unit 2	Master Bedroom	75	4
Tower 3	2	59.68	Unit 2	Bed 2	70	3
Tower 3	2	59.68	Unit 2	Kitchen/Living/Dining	73	4
Tower 3	2	59.68	Unit 3	Master Bedroom	74	4
Tower 3	2	59.68	Unit 3	Bed 2	67	2
Tower 3	2	59.68	Unit 3	Bed 3	65	2
Tower 3	2	59.68	Unit 3	Kitchen/Living/Dining	69	3
Tower 3	2	59.68	Unit 4	Master Bedroom	57	0
Tower 3	2	59.68	Unit 4	Bed 2	49	0
Tower 3	2	59.68	Unit 4	Bed 3	62	1
Tower 3	2	59.68	Unit 4	Kitchen/Living/Dining	41	0
Tower 3	2	59.68	Unit 5	Master Bedroom	41	0
Tower 3	2	59.68	Unit 5	Bed 2	41	0
Tower 3	2	59.68	Unit 5	Kitchen/Living/Dining	41	0
Tower 3	2	59.68	Unit 6	Master Bedroom	44	0
Tower 3	2	59.68	Unit 6	Kitchen/Living/Dining	47	0
Tower 3	2	59.68	Unit 7	Master Bedroom	58	1
Tower 3	2	59.68	Unit 7	Kitchen/Living/Dining	60	1
Tower 3	3	62.68	Unit 1	Master Bedroom	75	4
Tower 3	3	62.68	Unit 1	Bed 2	66	2
Tower 3	3	62.68	Unit 1	Kitchen/Living/Dining	72	3

Tower	Level	FFL	Unit	Room	Predicted Road Traffic Noise Impacts (Façade Corrected) 2036 (dBA)	
					L _{A10(18h)}	QDC Category
Tower 3	3	62.68	Unit 2	Master Bedroom	75	4
Tower 3	3	62.68	Unit 2	Bed 2	70	3
Tower 3	3	62.68	Unit 2	Kitchen/Living/Dining	74	4
Tower 3	3	62.68	Unit 3	Master Bedroom	75	4
Tower 3	3	62.68	Unit 3	Bed 2	67	2
Tower 3	3	62.68	Unit 3	Bed 3	66	2
Tower 3	3	62.68	Unit 3	Kitchen/Living/Dining	70	3
Tower 3	3	62.68	Unit 4	Master Bedroom	57	0
Tower 3	3	62.68	Unit 4	Bed 2	44	0
Tower 3	3	62.68	Unit 4	Bed 3	63	2
Tower 3	3	62.68	Unit 4	Kitchen/Living/Dining	41	0
Tower 3	3	62.68	Unit 5	Master Bedroom	41	0
Tower 3	3	62.68	Unit 5	Bed 2	41	0
Tower 3	3	62.68	Unit 5	Kitchen/Living/Dining	41	0
Tower 3	3	62.68	Unit 6	Master Bedroom	46	0
Tower 3	3	62.68	Unit 6	Kitchen/Living/Dining	50	0
Tower 3	3	62.68	Unit 7	Master Bedroom	61	1
Tower 3	3	62.68	Unit 7	Kitchen/Living/Dining	63	2
Tower 3	4	65.68	Unit 1	Master Bedroom	74	4
Tower 3	4	65.68	Unit 1	Bed 2	67	2
Tower 3	4	65.68	Unit 1	Kitchen/Living/Dining	71	3
Tower 3	4	65.68	Unit 2	Master Bedroom	75	4
Tower 3	4	65.68	Unit 2	Bed 2	70	3
Tower 3	4	65.68	Unit 2	Kitchen/Living/Dining	73	4
Tower 3	4	65.68	Unit 3	Master Bedroom	74	4
Tower 3	4	65.68	Unit 3	Bed 2	67	2
Tower 3	4	65.68	Unit 3	Bed 3	66	2
Tower 3	4	65.68	Unit 3	Kitchen/Living/Dining	70	3
Tower 3	4	65.68	Unit 4	Master Bedroom	58	1
Tower 3	4	65.68	Unit 4	Bed 2	43	0
Tower 3	4	65.68	Unit 4	Bed 3	63	2
Tower 3	4	65.68	Unit 4	Kitchen/Living/Dining	41	0
Tower 3	4	65.68	Unit 5	Master Bedroom	41	0
Tower 3	4	65.68	Unit 5	Bed 2	41	0
Tower 3	4	65.68	Unit 5	Kitchen/Living/Dining	41	0
Tower 3	4	65.68	Unit 6	Master Bedroom	49	0
Tower 3	4	65.68	Unit 6	Kitchen/Living/Dining	52	0
Tower 3	4	65.68	Unit 7	Master Bedroom	62	1
Tower 3	4	65.68	Unit 7	Kitchen/Living/Dining	64	2
Tower 3	5	68.68	Unit 1	Master Bedroom	74	4
Tower 3	5	68.68	Unit 1	Bed 2	68	3
Tower 3	5	68.68	Unit 1	Kitchen/Living/Dining	71	3
Tower 3	5	68.68	Unit 2	Master Bedroom	74	4
Tower 3	5	68.68	Unit 2	Bed 2	70	3
Tower 3	5	68.68	Unit 2	Kitchen/Living/Dining	73	4
Tower 3	5	68.68	Unit 3	Master Bedroom	74	4
Tower 3	5	68.68	Unit 3	Bed 2	67	2
Tower 3	5	68.68	Unit 3	Bed 3	66	2
Tower 3	5	68.68	Unit 3	Kitchen/Living/Dining	69	3
Tower 3	5	68.68	Unit 4	Master Bedroom	58	1
Tower 3	5	68.68	Unit 4	Bed 2	43	0
Tower 3	5	68.68	Unit 4	Bed 3	63	2
Tower 3	5	68.68	Unit 4	Kitchen/Living/Dining	41	0
Tower 3	5	68.68	Unit 5	Master Bedroom	41	0
Tower 3	5	68.68	Unit 5	Bed 2	41	0

Tower	Level	FFL	Unit	Room	Predicted Road Traffic Noise Impacts (Façade Corrected) 2036 (dBA)	
					L _{A10(18h)}	QDC Category
Tower 3	5	68.68	Unit 5	Kitchen/Living/Dining	41	0
Tower 3	5	68.68	Unit 6	Master Bedroom	52	0
Tower 3	5	68.68	Unit 6	Kitchen/Living/Dining	56	0
Tower 3	5	68.68	Unit 7	Master Bedroom	63	2
Tower 3	5	68.68	Unit 7	Kitchen/Living/Dining	65	2
Tower 3	6	71.68	Unit 1	Master Bedroom	74	4
Tower 3	6	71.68	Unit 1	Bed 2	69	3
Tower 3	6	71.68	Unit 1	Kitchen/Living/Dining	70	3
Tower 3	6	71.68	Unit 2	Master Bedroom	74	4
Tower 3	6	71.68	Unit 2	Bed 2	69	3
Tower 3	6	71.68	Unit 2	Kitchen/Living/Dining	72	3
Tower 3	6	71.68	Unit 3	Master Bedroom	74	4
Tower 3	6	71.68	Unit 3	Bed 2	67	2
Tower 3	6	71.68	Unit 3	Bed 3	65	2
Tower 3	6	71.68	Unit 3	Kitchen/Living/Dining	69	3
Tower 3	6	71.68	Unit 4	Master Bedroom	58	1
Tower 3	6	71.68	Unit 4	Bed 2	44	0
Tower 3	6	71.68	Unit 4	Bed 3	63	2
Tower 3	6	71.68	Unit 4	Kitchen/Living/Dining	43	0
Tower 3	6	71.68	Unit 5	Master Bedroom	43	0
Tower 3	6	71.68	Unit 5	Bed 2	43	0
Tower 3	6	71.68	Unit 5	Kitchen/Living/Dining	43	0
Tower 3	6	71.68	Unit 6	Master Bedroom	56	0
Tower 3	6	71.68	Unit 6	Kitchen/Living/Dining	59	1
Tower 3	6	71.68	Unit 7	Master Bedroom	65	2
Tower 3	6	71.68	Unit 7	Kitchen/Living/Dining	67	2
Tower 3	7	74.68	Unit 1	Master Bedroom	73	4
Tower 3	7	74.68	Unit 1	Bed 2	70	3
Tower 3	7	74.68	Unit 1	Kitchen/Living/Dining	70	3
Tower 3	7	74.68	Unit 2	Master Bedroom	74	4
Tower 3	7	74.68	Unit 2	Bed 2	69	3
Tower 3	7	74.68	Unit 2	Kitchen/Living/Dining	72	3
Tower 3	7	74.68	Unit 3	Master Bedroom	73	4
Tower 3	7	74.68	Unit 3	Bed 2	66	2
Tower 3	7	74.68	Unit 3	Bed 3	65	2
Tower 3	7	74.68	Unit 3	Kitchen/Living/Dining	68	3
Tower 3	7	74.68	Unit 4	Master Bedroom	58	1
Tower 3	7	74.68	Unit 4	Bed 2	46	0
Tower 3	7	74.68	Unit 4	Bed 3	63	2
Tower 3	7	74.68	Unit 4	Kitchen/Living/Dining	46	0
Tower 3	7	74.68	Unit 5	Master Bedroom	45	0
Tower 3	7	74.68	Unit 5	Bed 2	46	0
Tower 3	7	74.68	Unit 5	Kitchen/Living/Dining	46	0
Tower 3	7	74.68	Unit 6	Master Bedroom	58	1
Tower 3	7	74.68	Unit 6	Kitchen/Living/Dining	62	1
Tower 3	7	74.68	Unit 7	Master Bedroom	66	2
Tower 3	7	74.68	Unit 7	Kitchen/Living/Dining	68	3
Tower 3	8	77.68	Unit 1	Master Bedroom	73	4
Tower 3	8	77.68	Unit 1	Bed 2	70	3
Tower 3	8	77.68	Unit 1	Kitchen/Living/Dining	70	3
Tower 3	8	77.68	Unit 2	Master Bedroom	73	4
Tower 3	8	77.68	Unit 2	Bed 2	68	3
Tower 3	8	77.68	Unit 2	Kitchen/Living/Dining	72	3
Tower 3	8	77.68	Unit 3	Master Bedroom	73	4
Tower 3	8	77.68	Unit 3	Bed 2	66	2

Tower	Level	FFL	Unit	Room	Predicted Road Traffic Noise Impacts (Façade Corrected) 2036 (dBA)	
					L _{A10(18h)}	QDC Category
Tower 3	8	77.68	Unit 3	Bed 3	65	2
Tower 3	8	77.68	Unit 3	Kitchen/Living/Dining	68	3
Tower 3	8	77.68	Unit 4	Master Bedroom	58	1
Tower 3	8	77.68	Unit 4	Bed 2	50	0
Tower 3	8	77.68	Unit 4	Bed 3	62	1
Tower 3	8	77.68	Unit 4	Kitchen/Living/Dining	49	0
Tower 3	8	77.68	Unit 5	Master Bedroom	49	0
Tower 3	8	77.68	Unit 5	Bed 2	49	0
Tower 3	8	77.68	Unit 5	Kitchen/Living/Dining	49	0
Tower 3	8	77.68	Unit 6	Master Bedroom	61	1
Tower 3	8	77.68	Unit 6	Kitchen/Living/Dining	64	2
Tower 3	8	77.68	Unit 7	Master Bedroom	67	2
Tower 3	8	77.68	Unit 7	Kitchen/Living/Dining	68	3

Table 11: Predicted traffic noise levels - Year 2036 – Tower 2

Tower	Level	FFL	Unit	Room	Predicted Road Traffic Noise Impacts (Façade Corrected) 2036 (dBA)	
					L _{A10(18h)}	QDC Category
Tower 2	1	55.75	Unit 1	Master Bedroom	66	2
Tower 2	1	55.75	Unit 1	Bed 2	60	1
Tower 2	1	55.75	Unit 1	Kitchen/Living/Dining	65	2
Tower 2	1	55.75	Unit 2	Master Bedroom	67	2
Tower 2	1	55.75	Unit 2	Bed 2	62	1
Tower 2	1	55.75	Unit 2	Kitchen/Living/Dining	66	2
Tower 2	1	55.75	Unit 3	Master Bedroom	67	2
Tower 2	1	55.75	Unit 3	Bed 2	67	2
Tower 2	1	55.75	Unit 3	Kitchen/Living/Dining	63	2
Tower 2	2	59.68	Unit 1	Master Bedroom	75	4
Tower 2	2	59.68	Unit 1	Bed 2	68	3
Tower 2	2	59.68	Unit 1	Kitchen/Living/Dining	72	3
Tower 2	2	59.68	Unit 2	Master Bedroom	76	4
Tower 2	2	59.68	Unit 2	Bed 2	67	2
Tower 2	2	59.68	Unit 2	Kitchen/Living/Dining	74	4
Tower 2	2	59.68	Unit 3	Master Bedroom	75	4
Tower 2	2	59.68	Unit 3	Bed 2	69	3
Tower 2	2	59.68	Unit 3	Kitchen/Living/Dining	71	3
Tower 2	2	59.68	Unit 4	Master Bedroom	54	0
Tower 2	2	59.68	Unit 4	Kitchen/Living/Dining	68	3
Tower 2	2	59.68	Unit 5	Master Bedroom	61	1
Tower 2	2	59.68	Unit 5	Bed 2	63	2
Tower 2	2	59.68	Unit 5	Bed 3	64	2
Tower 2	2	59.68	Unit 5	Kitchen/Living/Dining	43	0
Tower 2	2	59.68	Unit 6	Master Bedroom	44	0
Tower 2	2	59.68	Unit 6	Bed 2	44	0
Tower 2	2	59.68	Unit 6	Kitchen/Living/Dining	44	0
Tower 2	2	59.68	Unit 7	Kitchen/Living/Dining	58	1
Tower 2	2	59.68	Unit 7	Master Bedroom	60	1
Tower 2	2	59.68	Unit 8	Master Bedroom	45	0
Tower 2	2	59.68	Unit 8	Kitchen/Living/Dining	66	2
Tower 2	3	62.68	Unit 1	Master Bedroom	75	4
Tower 2	3	62.68	Unit 1	Bed 2	68	3
Tower 2	3	62.68	Unit 1	Kitchen/Living/Dining	72	3

Tower	Level	FFL	Unit	Room	Predicted Road Traffic Noise Impacts (Façade Corrected) 2036 (dBA)	
					L _{A10(18h)}	QDC Category
Tower 2	3	62.68	Unit 2	Master Bedroom	76	4
Tower 2	3	62.68	Unit 2	Bed 2	68	3
Tower 2	3	62.68	Unit 2	Kitchen/Living/Dining	74	4
Tower 2	3	62.68	Unit 3	Master Bedroom	75	4
Tower 2	3	62.68	Unit 3	Bed 2	71	3
Tower 2	3	62.68	Unit 3	Kitchen/Living/Dining	72	3
Tower 2	3	62.68	Unit 4	Master Bedroom	57	0
Tower 2	3	62.68	Unit 4	Kitchen/Living/Dining	70	3
Tower 2	3	62.68	Unit 5	Master Bedroom	63	2
Tower 2	3	62.68	Unit 5	Bed 2	65	2
Tower 2	3	62.68	Unit 5	Bed 3	66	2
Tower 2	3	62.68	Unit 5	Kitchen/Living/Dining	42	0
Tower 2	3	62.68	Unit 6	Master Bedroom	42	0
Tower 2	3	62.68	Unit 6	Bed 2	42	0
Tower 2	3	62.68	Unit 6	Kitchen/Living/Dining	42	0
Tower 2	3	62.68	Unit 7	Master Bedroom	58	1
Tower 2	3	62.68	Unit 7	Bed 2	60	1
Tower 2	3	62.68	Unit 7	Bed 3	60	1
Tower 2	3	62.68	Unit 7	Kitchen/Living/Dining	42	0
Tower 2	3	62.68	Unit 8	Master Bedroom	43	0
Tower 2	3	62.68	Unit 8	Kitchen/Living/Dining	66	2
Tower 2	4	65.68	Unit 1	Master Bedroom	75	4
Tower 2	4	65.68	Unit 1	Bed 2	68	3
Tower 2	4	65.68	Unit 1	Kitchen/Living/Dining	72	3
Tower 2	4	65.68	Unit 2	Master Bedroom	75	4
Tower 2	4	65.68	Unit 2	Bed 2	68	3
Tower 2	4	65.68	Unit 2	Kitchen/Living/Dining	74	4
Tower 2	4	65.68	Unit 3	Master Bedroom	75	4
Tower 2	4	65.68	Unit 3	Bed 2	71	3
Tower 2	4	65.68	Unit 3	Kitchen/Living/Dining	72	3
Tower 2	4	65.68	Unit 4	Bed 1	62	1
Tower 2	4	65.68	Unit 4	Kitchen/Living/Dining	71	3
Tower 2	4	65.68	Unit 5	Master Bedroom	65	2
Tower 2	4	65.68	Unit 5	Bed 2	67	2
Tower 2	4	65.68	Unit 5	Bed 3	67	2
Tower 2	4	65.68	Unit 5	Kitchen/Living/Dining	42	0
Tower 2	4	65.68	Unit 6	Master Bedroom	42	0
Tower 2	4	65.68	Unit 6	Bed 2	42	0
Tower 2	4	65.68	Unit 6	Kitchen/Living/Dining	42	0
Tower 2	4	65.68	Unit 7	Master Bedroom	59	1
Tower 2	4	65.68	Unit 7	Bed 2	60	1
Tower 2	4	65.68	Unit 7	Bed 3	60	1
Tower 2	4	65.68	Unit 7	Kitchen/Living/Dining	42	0
Tower 2	4	65.68	Unit 8	Master Bedroom	43	0
Tower 2	4	65.68	Unit 8	Kitchen/Living/Dining	66	2
Tower 2	5	68.68	Unit 1	Master Bedroom	74	4
Tower 2	5	68.68	Unit 1	Bed 2	68	3
Tower 2	5	68.68	Unit 1	Kitchen/Living/Dining	71	3
Tower 2	5	68.68	Unit 2	Master Bedroom	75	4
Tower 2	5	68.68	Unit 2	Bed 2	67	2
Tower 2	5	68.68	Unit 2	Kitchen/Living/Dining	73	4
Tower 2	5	68.68	Unit 3	Master Bedroom	75	4
Tower 2	5	68.68	Unit 3	Bed 2	71	3
Tower 2	5	68.68	Unit 3	Kitchen/Living/Dining	71	3
Tower 2	5	68.68	Unit 4	Master Bedroom	64	2

Tower	Level	FFL	Unit	Room	Predicted Road Traffic Noise Impacts (Façade Corrected) 2036 (dBA)	
					L _{A10(18h)}	QDC Category
Tower 2	5	68.68	Unit 4	Kitchen/Living/Dining	71	3
Tower 2	5	68.68	Unit 5	Master Bedroom	67	2
Tower 2	5	68.68	Unit 5	Bed 2	68	3
Tower 2	5	68.68	Unit 5	Bed 3	69	3
Tower 2	5	68.68	Unit 5	Kitchen/Living/Dining	41	0
Tower 2	5	68.68	Unit 6	Master Bedroom	41	0
Tower 2	5	68.68	Unit 6	Bed 2	41	0
Tower 2	5	68.68	Unit 6	Kitchen/Living/Dining	41	0
Tower 2	5	68.68	Unit 7	Master Bedroom	59	1
Tower 2	5	68.68	Unit 7	Bed 2	60	1
Tower 2	5	68.68	Unit 7	Bed 3	60	1
Tower 2	5	68.68	Unit 7	Kitchen/Living/Dining	41	0
Tower 2	5	68.68	Unit 8	Master Bedroom	43	0
Tower 2	5	68.68	Unit 8	Kitchen/Living/Dining	66	2
Tower 2	6	71.68	Unit 1	Master Bedroom	74	4
Tower 2	6	71.68	Unit 1	Bed 2	67	2
Tower 2	6	71.68	Unit 1	Kitchen/Living/Dining	71	3
Tower 2	6	71.68	Unit 2	Master Bedroom	75	4
Tower 2	6	71.68	Unit 2	Bed 2	67	2
Tower 2	6	71.68	Unit 2	Kitchen/Living/Dining	73	4
Tower 2	6	71.68	Unit 3	Master Bedroom	74	4
Tower 2	6	71.68	Unit 3	Bed 2	71	3
Tower 2	6	71.68	Unit 3	Kitchen/Living/Dining	71	3
Tower 2	6	71.68	Unit 4	Master Bedroom	64	2
Tower 2	6	71.68	Unit 4	Kitchen/Living/Dining	71	3
Tower 2	6	71.68	Unit 5	Master Bedroom	68	3
Tower 2	6	71.68	Unit 5	Bed 2	69	3
Tower 2	6	71.68	Unit 5	Bed 3	69	3
Tower 2	6	71.68	Unit 5	Kitchen/Living/Dining	43	0
Tower 2	6	71.68	Unit 6	Master Bedroom	43	0
Tower 2	6	71.68	Unit 6	Bed 2	43	0
Tower 2	6	71.68	Unit 6	Kitchen/Living/Dining	43	0
Tower 2	6	71.68	Unit 7	Master Bedroom	59	1
Tower 2	6	71.68	Unit 7	Bed 2	60	1
Tower 2	6	71.68	Unit 7	Bed 3	60	1
Tower 2	6	71.68	Unit 7	Kitchen/Living/Dining	43	0
Tower 2	6	71.68	Unit 8	Master Bedroom	44	0
Tower 2	6	71.68	Unit 8	Kitchen/Living/Dining	66	2
Tower 2	7	74.68	Unit 1	Master Bedroom	74	4
Tower 2	7	74.68	Unit 1	Bed 2	67	2
Tower 2	7	74.68	Unit 1	Kitchen/Living/Dining	70	3
Tower 2	7	74.68	Unit 2	Master Bedroom	74	4
Tower 2	7	74.68	Unit 2	Bed 2	66	2
Tower 2	7	74.68	Unit 2	Kitchen/Living/Dining	72	3
Tower 2	7	74.68	Unit 3	Master Bedroom	74	4
Tower 2	7	74.68	Unit 3	Bed 2	71	3
Tower 2	7	74.68	Unit 3	Kitchen/Living/Dining	70	3
Tower 2	7	74.68	Unit 4	Master Bedroom	64	2
Tower 2	7	74.68	Unit 4	Kitchen/Living/Dining	71	3
Tower 2	7	74.68	Unit 5	Master Bedroom	68	3
Tower 2	7	74.68	Unit 5	Bed 2	69	3
Tower 2	7	74.68	Unit 5	Bed 3	69	3
Tower 2	7	74.68	Unit 5	Kitchen/Living/Dining	46	0
Tower 2	7	74.68	Unit 6	Master Bedroom	45	0
Tower 2	7	74.68	Unit 6	Bed 2	46	0

Tower	Level	FFL	Unit	Room	Predicted Road Traffic Noise Impacts (Façade Corrected) 2036 (dBA)	
					L _{A10(18h)}	QDC Category
Tower 2	7	74.68	Unit 6	Kitchen/Living/Dining	46	0
Tower 2	7	74.68	Unit 7	Master Bedroom	59	1
Tower 2	7	74.68	Unit 7	Bed 2	60	1
Tower 2	7	74.68	Unit 7	Bed 3	60	1
Tower 2	7	74.68	Unit 7	Kitchen/Living/Dining	45	0
Tower 2	7	74.68	Unit 8	Master Bedroom	47	0
Tower 2	7	74.68	Unit 8	Kitchen/Living/Dining	65	2
Tower 2	8	77.68	Unit 1	Master Bedroom	73	4
Tower 2	8	77.68	Unit 1	Bed 2	67	2
Tower 2	8	77.68	Unit 1	Kitchen/Living/Dining	70	3
Tower 2	8	77.68	Unit 2	Master Bedroom	74	4
Tower 2	8	77.68	Unit 2	Bed 2	66	2
Tower 2	8	77.68	Unit 2	Kitchen/Living/Dining	72	3
Tower 2	8	77.68	Unit 3	Master Bedroom	74	4
Tower 2	8	77.68	Unit 3	Bed 2	70	3
Tower 2	8	77.68	Unit 3	Kitchen/Living/Dining	70	3
Tower 2	8	77.68	Unit 4	Master Bedroom	64	2
Tower 2	8	77.68	Unit 4	Kitchen/Living/Dining	70	3
Tower 2	8	77.68	Unit 5	Master Bedroom	68	3
Tower 2	8	77.68	Unit 5	Bed 2	69	3
Tower 2	8	77.68	Unit 5	Bed 3	69	3
Tower 2	8	77.68	Unit 5	Kitchen/Living/Dining	50	0
Tower 2	8	77.68	Unit 6	Master Bedroom	49	0
Tower 2	8	77.68	Unit 6	Bed 2	49	0
Tower 2	8	77.68	Unit 6	Kitchen/Living/Dining	50	0
Tower 2	8	77.68	Unit 7	Master Bedroom	59	1
Tower 2	8	77.68	Unit 7	Bed 2	60	1
Tower 2	8	77.68	Unit 7	Bed 3	60	1
Tower 2	8	77.68	Unit 7	Kitchen/Living/Dining	49	0
Tower 2	8	77.68	Unit 8	Master Bedroom	50	0
Tower 2	8	77.68	Unit 8	Kitchen/Living/Dining	65	2

Table 12: Predicted traffic noise levels - Year 2036 – Tower 1

Tower	Level	FFL	Unit	Room	Predicted Road Traffic Noise Impacts (Façade Corrected) 2036 (dBA)	
					L _{A10(18h)}	QDC Category
Tower 1	1	59.42	Unit 5	Master Bedroom	51	0
Tower 1	1	59.42	Unit 5	Bed 2	45	0
Tower 1	1	59.42	Unit 5	Kitchen/Living/Dining	48	0
Tower 1	1	59.42	Unit 2	Master Bedroom	44	0
Tower 1	1	59.42	Unit 2	Bed 2	48	0
Tower 1	1	59.42	Unit 2	Bed 3	49	0
Tower 1	1	59.42	Unit 2	Bed 4	50	0
Tower 1	1	59.42	Unit 2	Kitchen/Living/Dining	46	0
Tower 1	2	63.41	Unit 1	Master Bedroom	59	1
Tower 1	2	63.41	Unit 1	Bed 2	52	0
Tower 1	2	63.41	Unit 1	Bed 3	51	0
Tower 1	2	63.41	Unit 1	Kitchen/Living/Dining	55	0
Tower 1	2	63.41	Unit 2	Master Bedroom	59	1
Tower 1	2	63.41	Unit 2	Bed 2	48	0
Tower 1	2	63.41	Unit 2	Kitchen/Living/Dining	59	1
Tower 1	2	63.41	Unit 3	Master Bedroom	61	1

Tower	Level	FFL	Unit	Room	Predicted Road Traffic Noise Impacts (Façade Corrected) 2036 (dBA)	
					L _{A10(18h)}	QDC Category
Tower 1	2	63.41	Unit 3	Bed 2	49	0
Tower 1	2	63.41	Unit 3	Kitchen/Living/Dining	54	0
Tower 1	2	63.41	Unit 4	Master Bedroom	57	0
Tower 1	2	63.41	Unit 4	Bed 2	60	1
Tower 1	2	63.41	Unit 4	Kitchen/Living/Dining	63	2
Tower 1	2	63.41	Unit 5	Master Bedroom	53	0
Tower 1	2	63.41	Unit 5	Kitchen/Living/Dining	42	0
Tower 1	2	63.41	Unit 6	Master Bedroom	38	0
Tower 1	2	63.41	Unit 6	Bed 2	50	0
Tower 1	2	63.41	Unit 6	Bed 3	50	0
Tower 1	2	63.41	Unit 6	Bed 4	51	0
Tower 1	2	63.41	Unit 6	Kitchen/Living/Dining	52	0
Tower 1	2	63.41	Unit 6	Kitchen/Living/Dining	38	0
Tower 1	2	63.41	Unit 7	Master Bedroom	38	0
Tower 1	2	63.41	Unit 7	Bed 2	38	0
Tower 1	2	63.41	Unit 7	Bed 3	40	0
Tower 1	2	63.41	Unit 7	Kitchen/Living/Dining	38	0
Tower 1	2	63.41	Unit 9	Master Bedroom	49	0
Tower 1	2	63.41	Unit 9	Bed 2	41	0
Tower 1	2	63.41	Unit 9	Kitchen/Living/Dining	46	0
Tower 1	3	66.41	Unit 1	Master Bedroom	60	1
Tower 1	3	66.41	Unit 1	Bed 2	53	0
Tower 1	3	66.41	Unit 1	Bed 3	52	0
Tower 1	3	66.41	Unit 1	Kitchen/Living/Dining	55	0
Tower 1	3	66.41	Unit 2	Master Bedroom	60	1
Tower 1	3	66.41	Unit 2	Bed 2	44	0
Tower 1	3	66.41	Unit 2	Kitchen/Living/Dining	60	1
Tower 1	3	66.41	Unit 3	Master Bedroom	62	1
Tower 1	3	66.41	Unit 3	Bed 2	46	0
Tower 1	3	66.41	Unit 3	Kitchen/Living/Dining	54	0
Tower 1	3	66.41	Unit 4	Master Bedroom	58	1
Tower 1	3	66.41	Unit 4	Bed 2	61	1
Tower 1	3	66.41	Unit 4	Kitchen/Living/Dining	64	2
Tower 1	3	66.41	Unit 5	Master Bedroom	55	0
Tower 1	3	66.41	Unit 5	Kitchen/Living/Dining	40	0
Tower 1	3	66.41	Unit 6	Master Bedroom	38	0
Tower 1	3	66.41	Unit 6	Bed 2	52	0
Tower 1	3	66.41	Unit 6	Bed 3	53	0
Tower 1	3	66.41	Unit 6	Bed 4	53	0
Tower 1	3	66.41	Unit 6	Kitchen/Living/Dining	54	0
Tower 1	3	66.41	Unit 6	Kitchen/Living/Dining	38	0
Tower 1	3	66.41	Unit 7	Master Bedroom	38	0
Tower 1	3	66.41	Unit 7	Bed 2	38	0
Tower 1	3	66.41	Unit 7	Bed 3	38	0
Tower 1	3	66.41	Unit 7	Kitchen/Living/Dining	38	0
Tower 1	3	66.41	Unit 8	Master Bedroom	51	0
Tower 1	3	66.41	Unit 8	Bed 2	49	0
Tower 1	3	66.41	Unit 8	Bed 3	45	0
Tower 1	3	66.41	Unit 8	Kitchen/Living/Dining	39	0
Tower 1	3	66.41	Unit 9	Master Bedroom	48	0
Tower 1	3	66.41	Unit 9	Bed 2	39	0
Tower 1	3	66.41	Unit 9	Kitchen/Living/Dining	46	0
Tower 1	4	69.41	Unit 1	Master Bedroom	61	1
Tower 1	4	69.41	Unit 1	Bed 2	54	0
Tower 1	4	69.41	Unit 1	Bed 3	53	0

Tower	Level	FFL	Unit	Room	Predicted Road Traffic Noise Impacts (Façade Corrected) 2036 (dBA)	
					L _{A10(18h)}	QDC Category
Tower 1	4	69.41	Unit 1	Kitchen/Living/Dining	56	0
Tower 1	4	69.41	Unit 2	Master Bedroom	61	1
Tower 1	4	69.41	Unit 2	Bed 2	43	0
Tower 1	4	69.41	Unit 2	Kitchen/Living/Dining	61	1
Tower 1	4	69.41	Unit 3	Master Bedroom	63	2
Tower 1	4	69.41	Unit 3	Bed 2	45	0
Tower 1	4	69.41	Unit 3	Kitchen/Living/Dining	55	0
Tower 1	4	69.41	Unit 4	Master Bedroom	59	1
Tower 1	4	69.41	Unit 4	Bed 2	62	1
Tower 1	4	69.41	Unit 4	Kitchen/Living/Dining	65	2
Tower 1	4	69.41	Unit 5	Master Bedroom	57	0
Tower 1	4	69.41	Unit 5	Kitchen/Living/Dining	40	0
Tower 1	4	69.41	Unit 6	Master Bedroom	38	0
Tower 1	4	69.41	Unit 6	Bed 2	54	0
Tower 1	4	69.41	Unit 6	Bed 3	55	0
Tower 1	4	69.41	Unit 6	Bed 4	55	0
Tower 1	4	69.41	Unit 6	Kitchen/Living/Dining	56	0
Tower 1	4	69.41	Unit 6	Kitchen/Living/Dining	38	0
Tower 1	4	69.41	Unit 7	Master Bedroom	38	0
Tower 1	4	69.41	Unit 7	Bed 2	38	0
Tower 1	4	69.41	Unit 7	Bed 3	38	0
Tower 1	4	69.41	Unit 7	Kitchen/Living/Dining	38	0
Tower 1	4	69.41	Unit 8	Master Bedroom	52	0
Tower 1	4	69.41	Unit 8	Bed 2	50	0
Tower 1	4	69.41	Unit 8	Bed 3	47	0
Tower 1	4	69.41	Unit 8	Kitchen/Living/Dining	38	0
Tower 1	4	69.41	Unit 9	Master Bedroom	49	0
Tower 1	4	69.41	Unit 9	Bed 2	39	0
Tower 1	4	69.41	Unit 9	Kitchen/Living/Dining	47	0
Tower 1	5	72.41	Unit 1	Master Bedroom	62	1
Tower 1	5	72.41	Unit 1	Bed 2	55	0
Tower 1	5	72.41	Unit 1	Bed 3	54	0
Tower 1	5	72.41	Unit 1	Kitchen/Living/Dining	58	1
Tower 1	5	72.41	Unit 2	Master Bedroom	62	1
Tower 1	5	72.41	Unit 2	Bed 2	42	0
Tower 1	5	72.41	Unit 2	Kitchen/Living/Dining	62	1
Tower 1	5	72.41	Unit 3	Master Bedroom	64	2
Tower 1	5	72.41	Unit 3	Bed 2	45	0
Tower 1	5	72.41	Unit 3	Kitchen/Living/Dining	57	0
Tower 1	5	72.41	Unit 4	Master Bedroom	60	1
Tower 1	5	72.41	Unit 4	Bed 2	63	2
Tower 1	5	72.41	Unit 4	Kitchen/Living/Dining	66	2
Tower 1	5	72.41	Unit 5	Master Bedroom	58	1
Tower 1	5	72.41	Unit 5	Kitchen/Living/Dining	42	0
Tower 1	5	72.41	Unit 6	Master Bedroom	39	0
Tower 1	5	72.41	Unit 6	Bed 2	55	0
Tower 1	5	72.41	Unit 6	Bed 3	56	0
Tower 1	5	72.41	Unit 6	Bed 4	56	0
Tower 1	5	72.41	Unit 6	Kitchen/Living/Dining	57	0
Tower 1	5	72.41	Unit 6	Kitchen/Living/Dining	39	0
Tower 1	5	72.41	Unit 7	Master Bedroom	39	0
Tower 1	5	72.41	Unit 7	Bed 2	39	0
Tower 1	5	72.41	Unit 7	Bed 3	39	0
Tower 1	5	72.41	Unit 7	Kitchen/Living/Dining	39	0
Tower 1	5	72.41	Unit 8	Master Bedroom	53	0

Tower	Level	FFL	Unit	Room	Predicted Road Traffic Noise Impacts (Façade Corrected) 2036 (dBA)	
					L _{A10(18h)}	QDC Category
Tower 1	5	72.41	Unit 8	Bed 2	52	0
Tower 1	5	72.41	Unit 8	Bed 3	49	0
Tower 1	5	72.41	Unit 8	Kitchen/Living/Dining	39	0
Tower 1	5	72.41	Unit 9	Master Bedroom	51	0
Tower 1	5	72.41	Unit 9	Bed 2	39	0
Tower 1	5	72.41	Unit 9	Kitchen/Living/Dining	50	0
Tower 1	6	75.41	Unit 1	Master Bedroom	63	2
Tower 1	6	75.41	Unit 1	Bed 2	56	0
Tower 1	6	75.41	Unit 1	Bed 3	56	0
Tower 1	6	75.41	Unit 1	Kitchen/Living/Dining	60	1
Tower 1	6	75.41	Unit 2	Master Bedroom	63	2
Tower 1	6	75.41	Unit 2	Bed 2	43	0
Tower 1	6	75.41	Unit 2	Kitchen/Living/Dining	63	2
Tower 1	6	75.41	Unit 3	Master Bedroom	65	2
Tower 1	6	75.41	Unit 3	Bed 2	45	0
Tower 1	6	75.41	Unit 3	Kitchen/Living/Dining	59	1
Tower 1	6	75.41	Unit 4	Master Bedroom	61	1
Tower 1	6	75.41	Unit 4	Bed 2	64	2
Tower 1	6	75.41	Unit 4	Kitchen/Living/Dining	66	2
Tower 1	6	75.41	Unit 5	Master Bedroom	58	1
Tower 1	6	75.41	Unit 5	Kitchen/Living/Dining	44	0
Tower 1	6	75.41	Unit 6	Master Bedroom	41	0
Tower 1	6	75.41	Unit 6	Bed 2	56	0
Tower 1	6	75.41	Unit 6	Bed 3	56	0
Tower 1	6	75.41	Unit 6	Bed 4	57	0
Tower 1	6	75.41	Unit 6	Kitchen/Living/Dining	57	0
Tower 1	6	75.41	Unit 6	Kitchen/Living/Dining	41	0
Tower 1	6	75.41	Unit 7	Master Bedroom	41	0
Tower 1	6	75.41	Unit 7	Bed 2	41	0
Tower 1	6	75.41	Unit 7	Bed 3	40	0
Tower 1	6	75.41	Unit 7	Kitchen/Living/Dining	41	0
Tower 1	6	75.41	Unit 8	Master Bedroom	54	0
Tower 1	6	75.41	Unit 8	Bed 2	53	0
Tower 1	6	75.41	Unit 8	Bed 3	51	0
Tower 1	6	75.41	Unit 8	Kitchen/Living/Dining	41	0
Tower 1	6	75.41	Unit 9	Master Bedroom	53	0
Tower 1	6	75.41	Unit 9	Bed 2	41	0
Tower 1	6	75.41	Unit 9	Kitchen/Living/Dining	52	0
Tower 1	7	78.41	Unit 1	Master Bedroom	63	2
Tower 1	7	78.41	Unit 1	Bed 2	58	1
Tower 1	7	78.41	Unit 1	Bed 3	57	0
Tower 1	7	78.41	Unit 1	Kitchen/Living/Dining	61	1
Tower 1	7	78.41	Unit 2	Master Bedroom	64	2
Tower 1	7	78.41	Unit 2	Bed 2	45	0
Tower 1	7	78.41	Unit 2	Kitchen/Living/Dining	64	2
Tower 1	7	78.41	Unit 3	Master Bedroom	66	2
Tower 1	7	78.41	Unit 3	Bed 2	47	0
Tower 1	7	78.41	Unit 3	Kitchen/Living/Dining	61	1
Tower 1	7	78.41	Unit 4	Master Bedroom	62	1
Tower 1	7	78.41	Unit 4	Bed 2	65	2
Tower 1	7	78.41	Unit 4	Kitchen/Living/Dining	67	2
Tower 1	7	78.41	Unit 5	Master Bedroom	59	1
Tower 1	7	78.41	Unit 5	Kitchen/Living/Dining	48	0
Tower 1	7	78.41	Unit 6	Master Bedroom	43	0
Tower 1	7	78.41	Unit 6	Bed 2	56	0

Tower	Level	FFL	Unit	Room	Predicted Road Traffic Noise Impacts (Façade Corrected) 2036 (dBA)	
					L _{A10(18h)}	QDC Category
Tower 1	7	78.41	Unit 6	Bed 3	57	0
Tower 1	7	78.41	Unit 6	Bed 4	58	1
Tower 1	7	78.41	Unit 6	Kitchen/Living/Dining	58	1
Tower 1	7	78.41	Unit 6	Kitchen/Living/Dining	44	0
Tower 1	7	78.41	Unit 7	Master Bedroom	43	0
Tower 1	7	78.41	Unit 7	Bed 2	43	0
Tower 1	7	78.41	Unit 7	Bed 3	43	0
Tower 1	7	78.41	Unit 7	Kitchen/Living/Dining	43	0
Tower 1	7	78.41	Unit 8	Master Bedroom	56	0
Tower 1	7	78.41	Unit 8	Bed 2	55	0
Tower 1	7	78.41	Unit 8	Bed 3	54	0
Tower 1	7	78.41	Unit 8	Kitchen/Living/Dining	43	0
Tower 1	7	78.41	Unit 9	Master Bedroom	55	0
Tower 1	7	78.41	Unit 9	Bed 2	44	0
Tower 1	7	78.41	Unit 9	Kitchen/Living/Dining	55	0
Tower 1	8	81.41	Unit 1	Master Bedroom	64	2
Tower 1	8	81.41	Unit 1	Bed 2	59	1
Tower 1	8	81.41	Unit 1	Bed 3	58	1
Tower 1	8	81.41	Unit 1	Kitchen/Living/Dining	62	1
Tower 1	8	81.41	Unit 2	Master Bedroom	64	2
Tower 1	8	81.41	Unit 2	Bed 2	50	0
Tower 1	8	81.41	Unit 2	Kitchen/Living/Dining	64	2
Tower 1	8	81.41	Unit 3	Master Bedroom	66	2
Tower 1	8	81.41	Unit 3	Bed 2	51	0
Tower 1	8	81.41	Unit 3	Kitchen/Living/Dining	62	1
Tower 1	8	81.41	Unit 4	Master Bedroom	63	2
Tower 1	8	81.41	Unit 4	Bed 2	66	2
Tower 1	8	81.41	Unit 4	Kitchen/Living/Dining	67	2
Tower 1	8	81.41	Unit 5	Bed 1	60	1
Tower 1	8	81.41	Unit 5	Kitchen/Living/Dining	52	0
Tower 1	8	81.41	Unit 6	Master Bedroom	48	0
Tower 1	8	81.41	Unit 6	Bed 2	57	0
Tower 1	8	81.41	Unit 6	Bed 3	58	1
Tower 1	8	81.41	Unit 6	Bed 4	59	1
Tower 1	8	81.41	Unit 6	Kitchen/Living/Dining	59	1
Tower 1	8	81.41	Unit 6	Kitchen/Living/Dining	48	0
Tower 1	8	81.41	Unit 7	Master Bedroom	48	0
Tower 1	8	81.41	Unit 7	Bed 2	48	0
Tower 1	8	81.41	Unit 7	Bed 3	48	0
Tower 1	8	81.41	Unit 7	Kitchen/Living/Dining	48	0
Tower 1	8	81.41	Unit 8	Master Bedroom	57	0
Tower 1	8	81.41	Unit 8	Bed 2	57	0
Tower 1	8	81.41	Unit 8	Bed 3	56	0
Tower 1	8	81.41	Unit 8	Kitchen/Living/Dining	48	0
Tower 1	8	81.41	Unit 9	Master Bedroom	57	0
Tower 1	8	81.41	Unit 9	Bed 2	49	0
Tower 1	8	81.41	Unit 9	Kitchen/Living/Dining	56	0

Based on the predicted noise levels, additional façade treatments would be required in accordance with QDC MP4.4. Refer to Section 8 for recommendations. SDAP PO40 does not apply to the development as there are no units on ground floor.

The 3D SoundPLAN CoRTN noise model predicts L_{A10,18hour} levels as shown in the Figures below.

Figure 4: Road Traffic Noise Contours – L10 (18 hour), Level 1 (Façade Corrected)

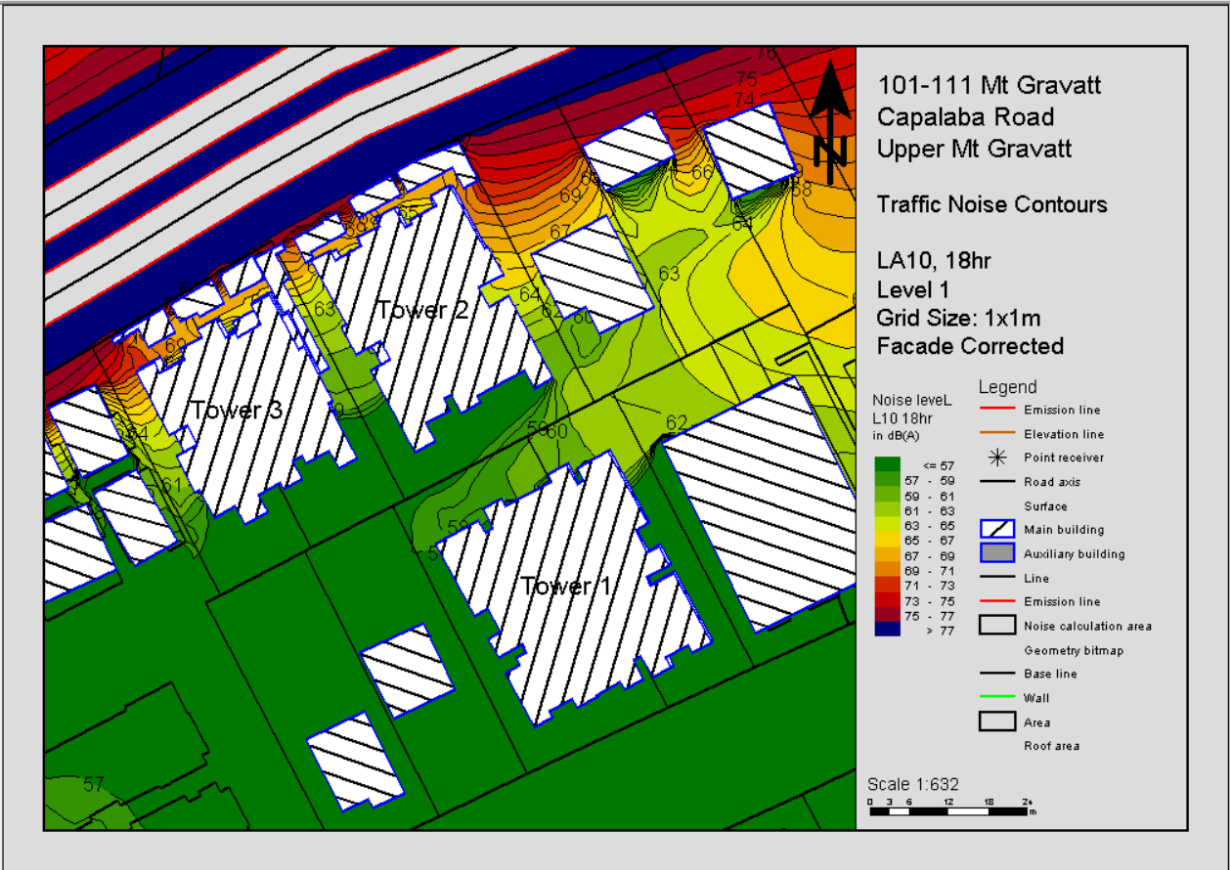


Figure 5: Road Traffic Noise Contours – L10 (18 hour), Level 4 (Façade Corrected)

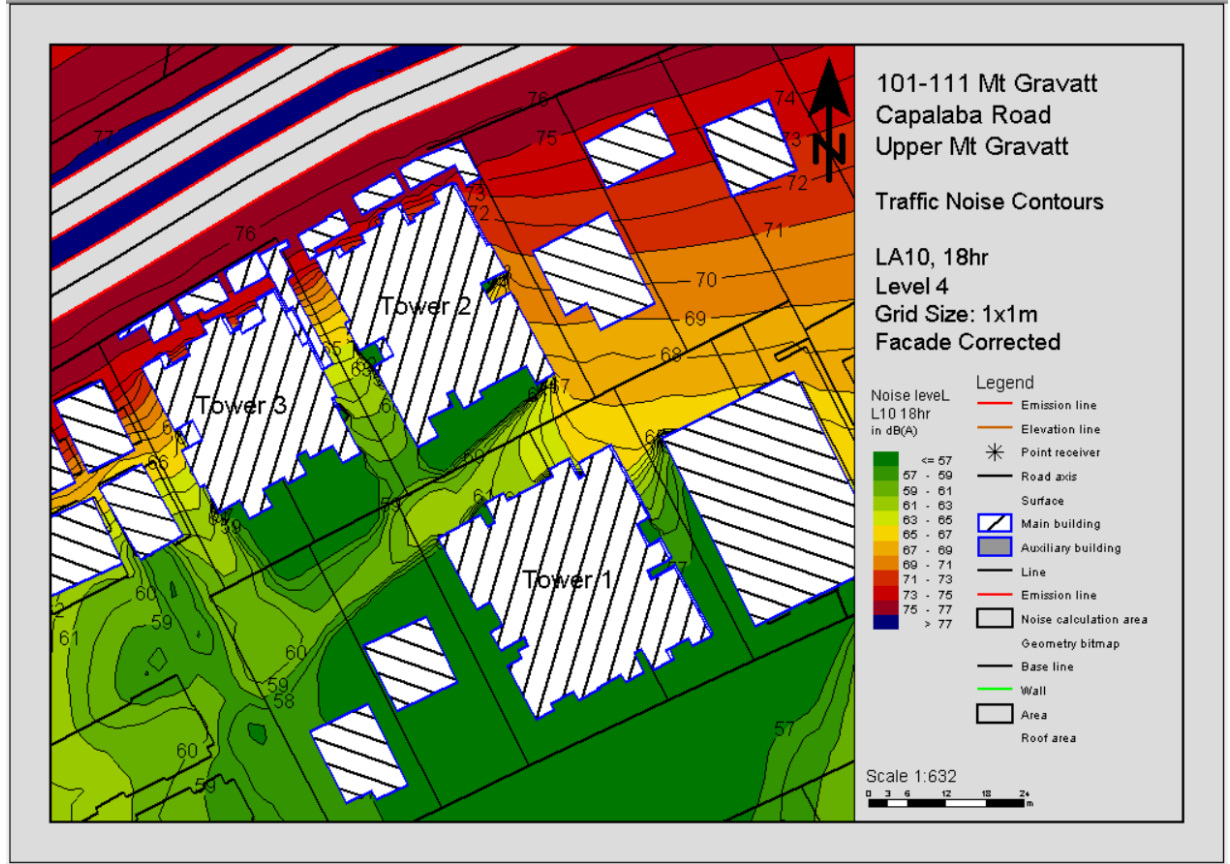
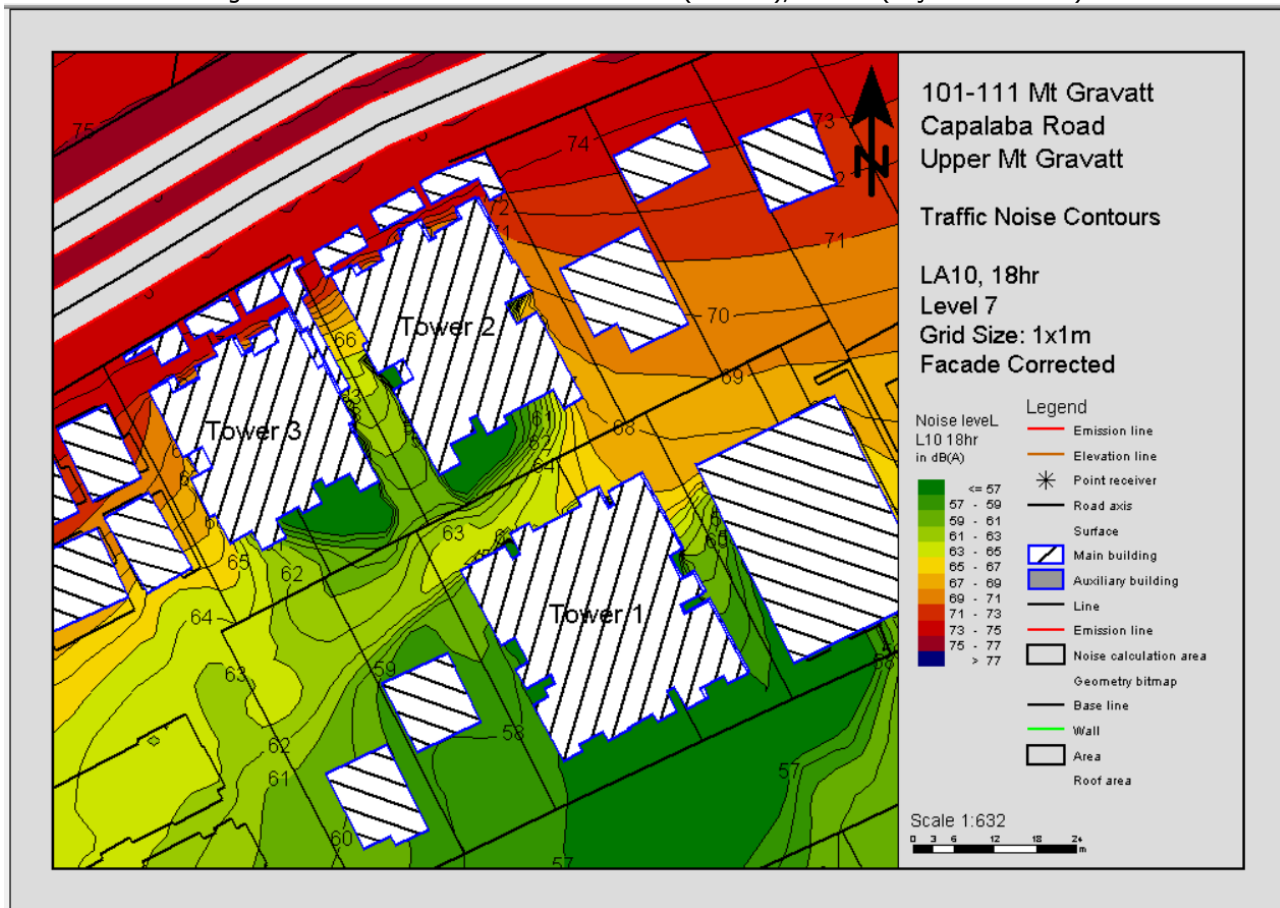


Figure 6: Road Traffic Noise Contours – L10 (18 hour), Level 7 (Façade Corrected)



An assessment of the private open spaces areas was conducted as shown in Table 13.

Table 13: Road Traffic Noise Impacts to Passive Recreation Areas – Tower 3

Tower	Level	FFL	Unit	Location	Predicted Road Traffic Noise Impacts (Free Field) 2036	Complies SDAP Criteria 60dBA LA10(18hr) yes/no
					LA10(18hr) dBA	
Tower 3	1	55.75	Unit 1	Balcony	68	No
Tower 3	1	55.75	Unit 2	Balcony	66	No
Tower 3	1	55.75	Unit 3	Balcony	65	No
Tower 3	2	59.68	Unit 1	Balcony	70	No
Tower 3	2	59.68	Unit 2	Balcony	73	No
Tower 3	2	59.68	Unit 3	Balcony	72	No
Tower 3	2	59.68	Unit 4	Balcony	56	Yes
Tower 3	2	59.68	Unit 5	Balcony	55	Yes
Tower 3	2	59.68	Unit 6	Balcony	55	Yes
Tower 3	2	59.68	Unit 7	Balcony	58	Yes
Tower 3	3	62.68	Unit 1	Balcony	73	No
Tower 3	3	62.68	Unit 2	Balcony	74	No
Tower 3	3	62.68	Unit 3	Balcony	73	No
Tower 3	3	62.68	Unit 4	Balcony	39	Yes
Tower 3	3	62.68	Unit 5	Balcony	40	Yes
Tower 3	3	62.68	Unit 6	Balcony	44	Yes
Tower 3	3	62.68	Unit 7	Balcony	48	Yes
Tower 3	4	65.68	Unit 1	Balcony	73	No
Tower 3	4	65.68	Unit 2	Balcony	74	No

Tower	Level	FFL	Unit	Location	Predicted Road Traffic Noise Impacts (Free Field) 2036	Complies SDAP Criteria 60dBA LA10(18hr) yes/no
					LA10(18h) dBA	
Tower 3	4	65.68	Unit 3	Balcony	73	No
Tower 3	4	65.68	Unit 4	Balcony	40	Yes
Tower 3	4	65.68	Unit 5	Balcony	40	Yes
Tower 3	4	65.68	Unit 6	Balcony	47	Yes
Tower 3	4	65.68	Unit 7	Balcony	51	Yes
Tower 3	5	68.68	Unit 1	Balcony	73	No
Tower 3	5	68.68	Unit 2	Balcony	73	No
Tower 3	5	68.68	Unit 3	Balcony	73	No
Tower 3	5	68.68	Unit 4	Balcony	40	Yes
Tower 3	5	68.68	Unit 5	Balcony	40	Yes
Tower 3	5	68.68	Unit 6	Balcony	50	Yes
Tower 3	5	68.68	Unit 7	Balcony	56	Yes
Tower 3	6	71.68	Unit 1	Balcony	72	No
Tower 3	6	71.68	Unit 2	Balcony	73	No
Tower 3	6	71.68	Unit 3	Balcony	73	No
Tower 3	6	71.68	Unit 4	Balcony	41	Yes
Tower 3	6	71.68	Unit 5	Balcony	41	Yes
Tower 3	6	71.68	Unit 6	Balcony	53	Yes
Tower 3	6	71.68	Unit 7	Balcony	61	No
Tower 3	7	74.68	Unit 1	Balcony	72	No
Tower 3	7	74.68	Unit 2	Balcony	72	No
Tower 3	7	74.68	Unit 3	Balcony	72	No
Tower 3	7	74.68	Unit 4	Balcony	43	Yes
Tower 3	7	74.68	Unit 5	Balcony	43	Yes
Tower 3	7	74.68	Unit 6	Balcony	56	Yes
Tower 3	7	74.68	Unit 7	Balcony	64	No
Tower 3	8	77.68	Unit 1	Balcony	72	No
Tower 3	8	77.68	Unit 2	Balcony	72	No
Tower 3	8	77.68	Unit 3	Balcony	72	No
Tower 3	8	77.68	Unit 4	Balcony	46	Yes
Tower 3	8	77.68	Unit 5	Balcony	46	Yes
Tower 3	8	77.68	Unit 6	Balcony	59	Yes
Tower 3	8	77.68	Unit 7	Balcony	65	No

Table 14: Road Traffic Noise Impacts to Passive Recreation Areas – Tower 2

Tower	Level	FFL	Unit	Location	Predicted Road Traffic Noise Impacts (Free Field) 2036	Complies SDAP Criteria 60dBA LA10(18hr) yes/no
					LA10(18h) dBA	
Tower 2	1	55.75	Unit 1	Balcony	65	No
Tower 2	1	55.75	Unit 2	Balcony	67	No
Tower 2	1	55.75	Unit 3	Balcony	66	No
Tower 2	2	59.68	Unit 1	Balcony	73	No
Tower 2	2	59.68	Unit 2	Balcony	74	No
Tower 2	2	59.68	Unit 3	Balcony	72	No
Tower 2	2	59.68	Unit 4	Balcony	62	No
Tower 2	2	59.68	Unit 5	Balcony	57	Yes
Tower 2	2	59.68	Unit 6	Balcony	57	Yes
Tower 2	2	59.68	Unit 7	Balcony	57	Yes
Tower 2	2	59.68	Unit 8	Balcony	61	No
Tower 2	3	62.68	Unit 1	Balcony	74	No
Tower 2	3	62.68	Unit 2	Balcony	74	No
Tower 2	3	62.68	Unit 3	Balcony	74	No

Tower	Level	FFL	Unit	Location	Predicted Road Traffic Noise Impacts (Free Field) 2036	Complies SDAP Criteria 60dBA LA10(18hr) yes/no
					LA10(18h) dBA	
Tower 2	3	62.68	Unit 4	Balcony	58	Yes
Tower 2	3	62.68	Unit 5	Balcony	42	Yes
Tower 2	3	62.68	Unit 6	Balcony	42	Yes
Tower 2	3	62.68	Unit 7	Balcony	44	Yes
Tower 2	3	62.68	Unit 8	Balcony	47	Yes
Tower 2	4	65.68	Unit 1	Balcony	74	No
Tower 2	4	65.68	Unit 2	Balcony	74	No
Tower 2	4	65.68	Unit 3	Balcony	74	No
Tower 2	4	65.68	Unit 4	Balcony	61	No
Tower 2	4	65.68	Unit 5	Balcony	40	Yes
Tower 2	4	65.68	Unit 6	Balcony	41	Yes
Tower 2	4	65.68	Unit 7	Balcony	41	Yes
Tower 2	4	65.68	Unit 8	Balcony	44	Yes
Tower 2	5	68.68	Unit 1	Balcony	73	No
Tower 2	5	68.68	Unit 2	Balcony	74	No
Tower 2	5	68.68	Unit 3	Balcony	73	No
Tower 2	5	68.68	Unit 4	Balcony	64	No
Tower 2	5	68.68	Unit 5	Balcony	40	Yes
Tower 2	5	68.68	Unit 6	Balcony	40	Yes
Tower 2	5	68.68	Unit 7	Balcony	40	Yes
Tower 2	5	68.68	Unit 8	Balcony	43	Yes
Tower 2	6	71.68	Unit 1	Balcony	73	No
Tower 2	6	71.68	Unit 2	Balcony	73	No
Tower 2	6	71.68	Unit 3	Balcony	73	No
Tower 2	6	71.68	Unit 4	Balcony	65	No
Tower 2	6	71.68	Unit 5	Balcony	41	Yes
Tower 2	6	71.68	Unit 6	Balcony	41	Yes
Tower 2	6	71.68	Unit 7	Balcony	41	Yes
Tower 2	6	71.68	Unit 8	Balcony	42	Yes
Tower 2	7	74.68	Unit 1	Balcony	72	No
Tower 2	7	74.68	Unit 2	Balcony	73	No
Tower 2	7	74.68	Unit 3	Balcony	73	No
Tower 2	7	74.68	Unit 4	Balcony	65	No
Tower 2	7	74.68	Unit 5	Balcony	43	Yes
Tower 2	7	74.68	Unit 6	Balcony	43	Yes
Tower 2	7	74.68	Unit 7	Balcony	43	Yes
Tower 2	7	74.68	Unit 8	Balcony	44	Yes
Tower 2	8	77.68	Unit 1	Balcony	72	No
Tower 2	8	77.68	Unit 2	Balcony	73	No
Tower 2	8	77.68	Unit 3	Balcony	72	No
Tower 2	8	77.68	Unit 4	Balcony	65	No
Tower 2	8	77.68	Unit 5	Balcony	46	Yes
Tower 2	8	77.68	Unit 6	Balcony	46	Yes
Tower 2	8	77.68	Unit 7	Balcony	46	Yes
Tower 2	8	77.68	Unit 8	Balcony	47	Yes

Table 15: Road Traffic Noise Impacts to Passive Recreation Areas – Tower 1

Tower	Level	FFL	Unit	Location	Predicted Road Traffic Noise Impacts (Free Field) 2036	Complies SDAP Criteria 60dBA L _{A10(18hr)} yes/no
					L _{A10(18h)} dBA	
Tower 1	1	59.42	Unit 5	Balcony	50	Yes
Tower 1	1	59.42	Unit 2	Balcony	48	Yes
Tower 1	2	63.41	Unit 1	Balcony	58	Yes
Tower 1	2	63.41	Unit 2	Balcony	58	Yes
Tower 1	2	63.41	Unit 3	Balcony	59	Yes
Tower 1	2	63.41	Unit 4	Balcony	61	No
Tower 1	2	63.41	Unit 5	Balcony	53	Yes
Tower 1	2	63.41	Unit 6	Balcony	37	Yes
Tower 1	2	63.41	Unit 7	Balcony	37	Yes
Tower 1	2	63.41	Unit 9	Balcony	46	Yes
Tower 1	3	66.41	Unit 1	Balcony	59	Yes
Tower 1	3	66.41	Unit 2	Balcony	59	Yes
Tower 1	3	66.41	Unit 3	Balcony	60	Yes
Tower 1	3	66.41	Unit 4	Balcony	62	No
Tower 1	3	66.41	Unit 5	Balcony	55	Yes
Tower 1	3	66.41	Unit 6	Balcony	36	Yes
Tower 1	3	66.41	Unit 7	Balcony	37	Yes
Tower 1	3	66.41	Unit 8	Balcony	38	Yes
Tower 1	3	66.41	Unit 8	Balcony	38	Yes
Tower 1	3	66.41	Unit 9	Balcony	46	Yes
Tower 1	4	69.41	Unit 1	Balcony	60	Yes
Tower 1	4	69.41	Unit 2	Balcony	60	Yes
Tower 1	4	69.41	Unit 3	Balcony	61	No
Tower 1	4	69.41	Unit 4	Balcony	63	No
Tower 1	4	69.41	Unit 5	Balcony	57	Yes
Tower 1	4	69.41	Unit 6	Balcony	36	Yes
Tower 1	4	69.41	Unit 7	Balcony	36	Yes
Tower 1	4	69.41	Unit 8	Balcony	37	Yes
Tower 1	4	69.41	Unit 8	Balcony	37	Yes
Tower 1	4	69.41	Unit 9	Balcony	47	Yes
Tower 1	5	72.41	Unit 1	Balcony	61	No
Tower 1	5	72.41	Unit 2	Balcony	61	No
Tower 1	5	72.41	Unit 3	Balcony	62	No
Tower 1	5	72.41	Unit 4	Balcony	64	No
Tower 1	5	72.41	Unit 5	Balcony	57	Yes
Tower 1	5	72.41	Unit 6	Balcony	38	Yes
Tower 1	5	72.41	Unit 7	Balcony	38	Yes
Tower 1	5	72.41	Unit 8	Balcony	38	Yes
Tower 1	5	72.41	Unit 8	Balcony	38	Yes
Tower 1	5	72.41	Unit 9	Balcony	49	Yes
Tower 1	6	75.41	Unit 1	Balcony	61	No
Tower 1	6	75.41	Unit 2	Balcony	62	No
Tower 1	6	75.41	Unit 3	Balcony	63	No
Tower 1	6	75.41	Unit 4	Balcony	65	No
Tower 1	6	75.41	Unit 5	Balcony	58	Yes
Tower 1	6	75.41	Unit 6	Balcony	40	Yes
Tower 1	6	75.41	Unit 7	Balcony	40	Yes
Tower 1	6	75.41	Unit 8	Balcony	40	Yes
Tower 1	6	75.41	Unit 8	Balcony	40	Yes
Tower 1	6	75.41	Unit 9	Balcony	51	Yes
Tower 1	7	78.41	Unit 1	Balcony	62	No
Tower 1	7	78.41	Unit 2	Balcony	63	No
Tower 1	7	78.41	Unit 3	Balcony	63	No
Tower 1	7	78.41	Unit 4	Balcony	65	No

Tower	Level	FFL	Unit	Location	Predicted Road Traffic Noise Impacts (Free Field) 2036	Complies SDAP Criteria 60dBA LA10(18hr) yes/no
					LA10(18h) dBA	
Tower 1	7	78.41	Unit 5	Balcony	59	Yes
Tower 1	7	78.41	Unit 6	Balcony	43	Yes
Tower 1	7	78.41	Unit 7	Balcony	43	Yes
Tower 1	7	78.41	Unit 8	Balcony	43	Yes
Tower 1	7	78.41	Unit 8	Balcony	43	Yes
Tower 1	7	78.41	Unit 9	Balcony	54	Yes
Tower 1	8	81.41	Unit 1	Balcony	62	No
Tower 1	8	81.41	Unit 2	Balcony	63	No
Tower 1	8	81.41	Unit 3	Balcony	64	No
Tower 1	8	81.41	Unit 4	Balcony	66	No
Tower 1	8	81.41	Unit 5	Balcony	60	Yes
Tower 1	8	81.41	Unit 6	Balcony	48	Yes
Tower 1	8	81.41	Unit 7	Balcony	47	Yes
Tower 1	8	81.41	Unit 8	Balcony	47	Yes
Tower 1	8	81.41	Unit 8	Balcony	47	Yes
Tower 1	8	81.41	Unit 9	Balcony	55	Yes

For private open spaces above the criteria, solid balustrades are required in accordance with PO42 of "State Code 1: Development in a state-controlled environment". Refer to section 8 for further recommendations. SDAP PO40 does not apply to the development as there are no units on ground floor.

Figure 7: Road Traffic Noise Contours – L10 (18 hour), Level 1 (Free Field)

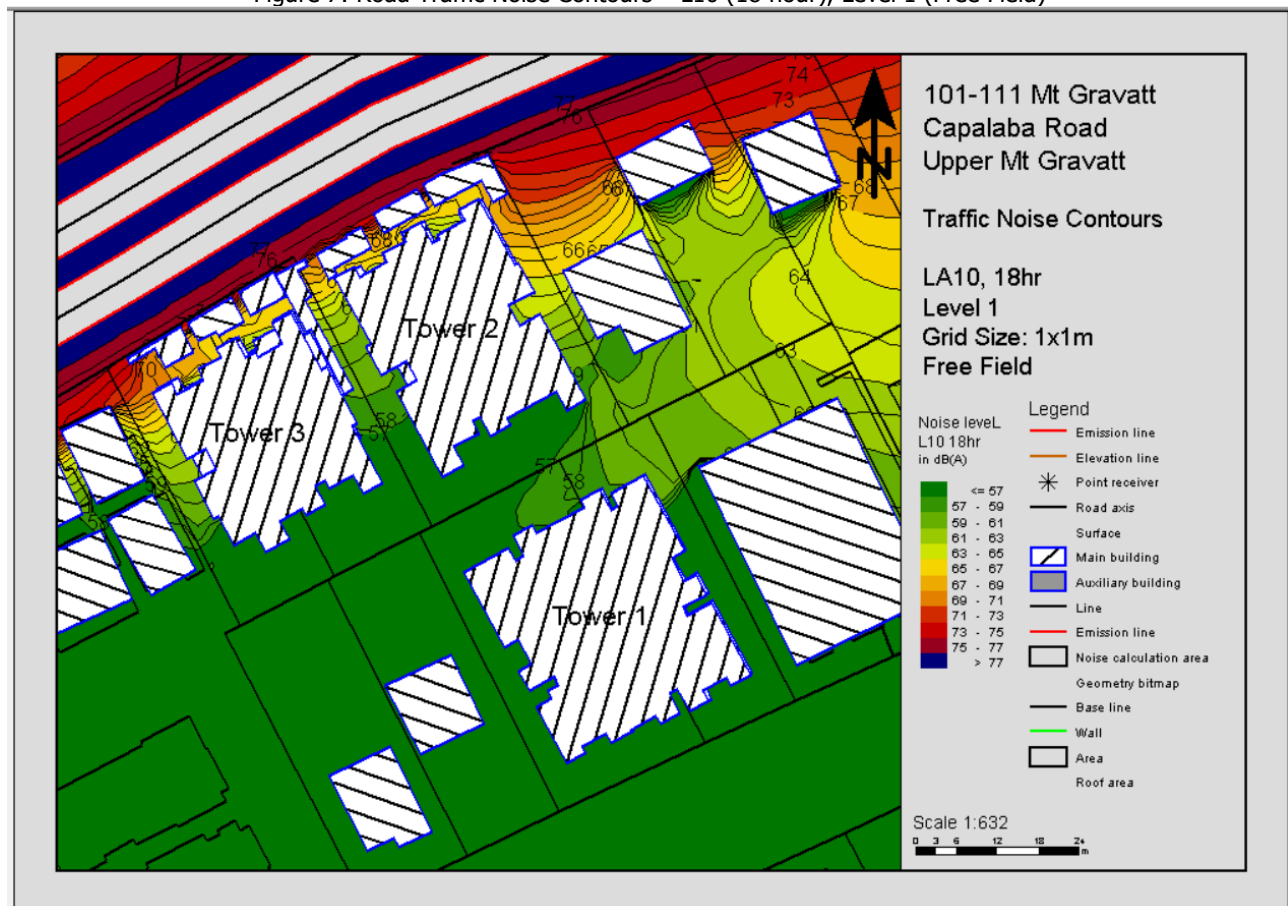


Figure 8: Road Traffic Noise Contours – L10 (18 hour), Level 4 (Free Field)

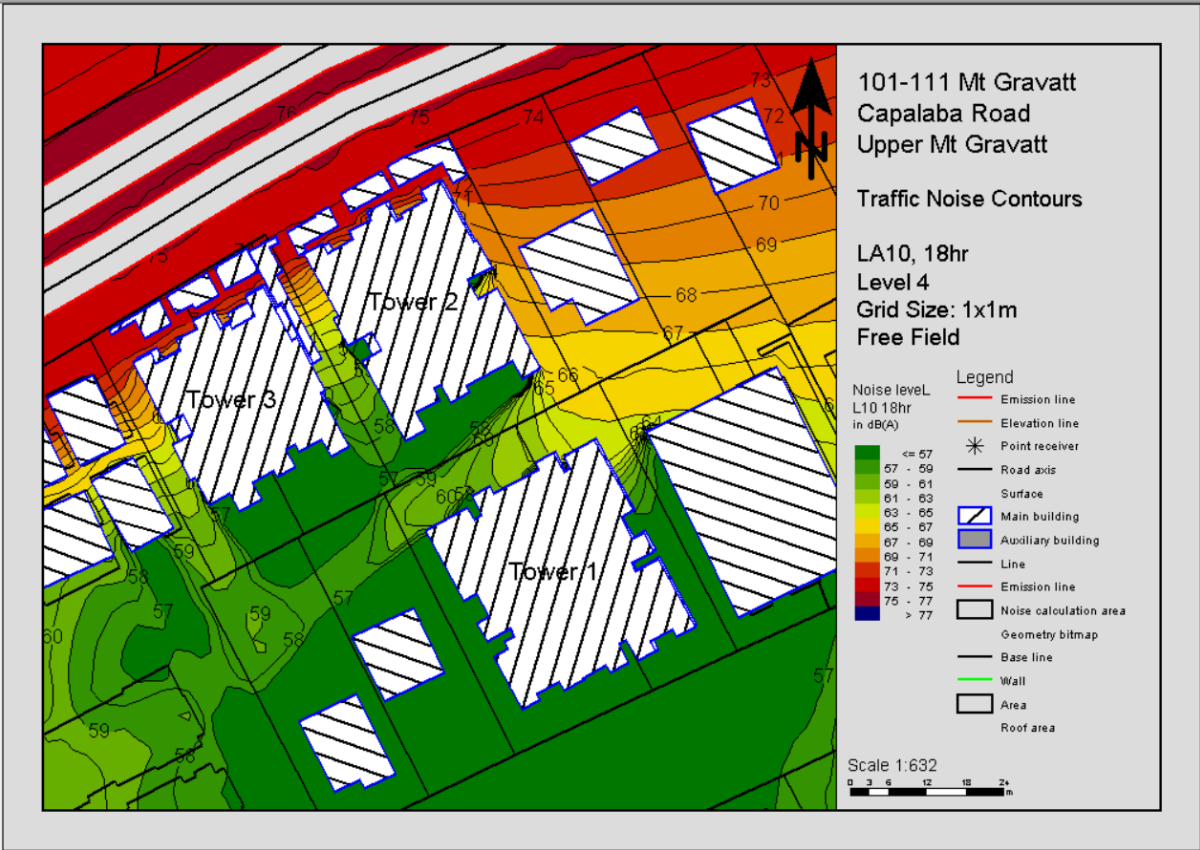
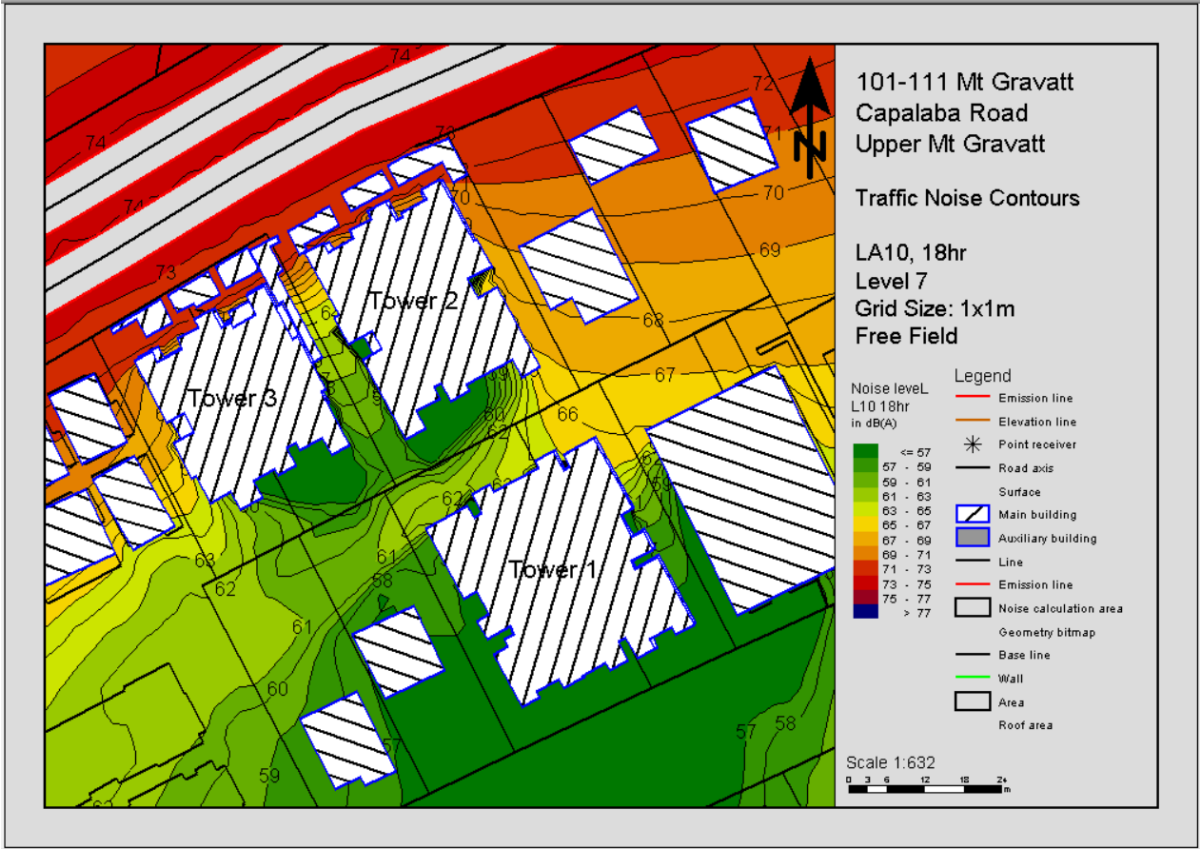


Figure 9: Road Traffic Noise Contours – L10 (18 hour), Level 7 (Free Field)



8. Recommendations

8.1 Road Traffic Noise

Based on the noise criteria, the construction requirements for the development will be governed by the Queensland Development Code Part MP4.4. For reference, preliminary noise categories are nominated in Section 8.1.

8.1.1 Glazing

All building treatments were calculated using Australian Standard *AS3671:1989 'Road Traffic Noise Intrusion – Building Siting and Construction'*.

The minimum glazing treatments presented in Table 16 are required to comply with the following:

- The minimum glass thickness specified shall not be reduced regardless of the R_w performance of the glass unless the glazier can provide a specific (non-generic) NATA Test report proving the proposed glazing system complies (the test report must be based on the same configuration proposed for the development). Note an estimation or calculated performance will not be accepted.
- If compliance cannot be achieved with the minimum R_w ratings, the glazing system shall be upgraded until compliance is achieved.
- Glazing specified with acoustic seals requires a seal that has been tested with a glazing system or door to achieve an R_w rating in accordance with AS/NZS ISO 717.1, mohair seals are not acceptable.
- The glazier shall provide NATA test reports on request to verify compliance with the minimum R_w ratings. Generic reports are not acceptable.
- Living rooming areas are defined as habitable rooms other than bedrooms (excluding garages, bathrooms & hallways).

Table 16: R_w and Glazing Recommendations – Tower 3

Tower	Level	Unit	Location	QDC Cat	Rw Ratings			Glazing Recommendations	Acoustic Seals
					Wall	Roof	Glazing		
Tower 3	1	Unit 1	Master Bedroom	3	47	-	38	14.38mm lam or 5mm/44m air gap/6mm	Yes
Tower 3	1	Unit 1	Bed 2	2	41	-	35	10.38mm lam	Yes
Tower 3	1	Unit 1	Bed 3	1	35	-	27	4mm float	Yes
Tower 3	1	Unit 1	Kitchen/Living/Dining	2	41	-	35	10.38mm lam	Yes
Tower 3	1	Unit 2	Master Bedroom	2	41	-	35	10.38mm lam	Yes
Tower 3	1	Unit 2	Bed 2	1	35	-	27	4mm float	Yes
Tower 3	1	Unit 2	Kitchen/Living/Dining	2	41	-	35	10.38mm lam	Yes
Tower 3	1	Unit 3	Master Bedroom	2	41	-	35	10.38mm lam	Yes
Tower 3	1	Unit 3	Bed 2	1	35	-	27	4mm float	Yes
Tower 3	1	Unit 3	Bed 3	1	35	-	27	4mm float	Yes
Tower 3	1	Unit 3	Kitchen/Living/Dining	2	41	-	35	10.38mm lam	Yes
Tower 3	2	Unit 1	Master Bedroom	4	52	45	43	5mm/100m air gap/5mm	Yes
Tower 3	2	Unit 1	Bed 2	2	41	-	35	10.38mm lam	Yes
Tower 3	2	Unit 1	Kitchen/Living/Dining	3	47	-	38	14.38mm lam or 5mm/44m air gap/6mm	Yes
Tower 3	2	Unit 2	Master Bedroom	4	52	-	43	5mm/100m air gap/5mm	Yes
Tower 3	2	Unit 2	Bed 2	3	47	-	38	14.38mm lam or 5mm/44m air gap/6mm	Yes
Tower 3	2	Unit 2	Kitchen/Living/Dining	4	52	-	43	5mm/100m air gap/5mm	Yes
Tower 3	2	Unit 3	Master Bedroom	4	52	-	43	5mm/100m air gap/5mm	Yes
Tower 3	2	Unit 3	Bed 2	2	41	-	35	10.38mm lam	Yes

Tower	Level	Unit	Location	QDC Cat	Rw Ratings			Glazing Recommendations	Acoustic Seals
					Wall	Roof	Glazing		
Tower 3	2	Unit 3	Bed 3	2	47	-	38	14.38mm lam or 5mm/44m air gap/6mm	Yes
Tower 3	2	Unit 3	Kitchen/Living/Dining	3	47	-	38	14.38mm lam or 5mm/44m air gap/6mm	Yes
Tower 3	2	Unit 4	Master Bedroom	0	-	-	-	Standard	No
Tower 3	2	Unit 4	Bed 2	0	-	-	-	Standard	No
Tower 3	2	Unit 4	Bed 3	1	35	-	27	4mm float	Yes
Tower 3	2	Unit 4	Kitchen/Living/Dining	0	-	-	-	Standard	No
Tower 3	2	Unit 5	Master Bedroom	0	-	-	-	Standard	No
Tower 3	2	Unit 5	Bed 2	0	-	-	-	Standard	No
Tower 3	2	Unit 5	Kitchen/Living/Dining	0	-	-	-	Standard	No
Tower 3	2	Unit 6	Master Bedroom	0	-	-	-	Standard	No
Tower 3	2	Unit 6	Kitchen/Living/Dining	0	-	-	-	Standard	No
Tower 3	2	Unit 7	Master Bedroom	1	35	-	27	4mm float	Yes
Tower 3	2	Unit 7	Kitchen/Living/Dining	1	35	-	27	4mm float	Yes
Tower 3	3	Unit 1	Master Bedroom	4	52	-	43	5mm/100m air gap/5mm	Yes
Tower 3	3	Unit 1	Bed 2	2	41	-	35	10.38mm lam	Yes
Tower 3	3	Unit 1	Kitchen/Living/Dining	3	47	-	38	14.38mm lam or 5mm/44m air gap/6mm	Yes
Tower 3	3	Unit 2	Master Bedroom	4	52	-	43	5mm/100m air gap/5mm	Yes
Tower 3	3	Unit 2	Bed 2	3	47	-	38	14.38mm lam or 5mm/44m air gap/6mm	Yes
Tower 3	3	Unit 2	Kitchen/Living/Dining	4	52	-	43	5mm/100m air gap/5mm	Yes
Tower 3	3	Unit 3	Master Bedroom	4	52	-	43	5mm/100m air gap/5mm	Yes
Tower 3	3	Unit 3	Bed 2	2	41	-	35	10.38mm lam	Yes
Tower 3	3	Unit 3	Bed 3	2	41	-	35	10.38mm lam	Yes
Tower 3	3	Unit 3	Kitchen/Living/Dining	3	47	-	38	14.38mm lam or 5mm/44m air gap/6mm	Yes
Tower 3	3	Unit 4	Master Bedroom	0	-	-	-	Standard	No
Tower 3	3	Unit 4	Bed 2	0	-	-	-	Standard	No
Tower 3	3	Unit 4	Bed 3	2	41	-	35	10.38mm lam	Yes
Tower 3	3	Unit 4	Kitchen/Living/Dining	0	-	-	-	Standard	No
Tower 3	3	Unit 5	Master Bedroom	0	-	-	-	Standard	No
Tower 3	3	Unit 5	Bed 2	0	-	-	-	Standard	No
Tower 3	3	Unit 5	Kitchen/Living/Dining	0	-	-	-	Standard	No
Tower 3	3	Unit 6	Master Bedroom	0	-	-	-	Standard	No
Tower 3	3	Unit 6	Kitchen/Living/Dining	0	-	-	-	Standard	No
Tower 3	3	Unit 7	Master Bedroom	1	35	-	27	4mm float	Yes
Tower 3	3	Unit 7	Kitchen/Living/Dining	2	41	-	35	10.38mm lam	Yes
Tower 3	4	Unit 1	Master Bedroom	4	52	-	43	5mm/100m air gap/5mm	Yes
Tower 3	4	Unit 1	Bed 2	2	41	-	35	10.38mm lam	Yes
Tower 3	4	Unit 1	Kitchen/Living/Dining	3	47	-	38	14.38mm lam or 5mm/44m air gap/6mm	Yes
Tower 3	4	Unit 2	Master Bedroom	4	52	-	43	5mm/100m air gap/5mm	Yes
Tower 3	4	Unit 2	Bed 2	3	47	-	38	14.38mm lam or 5mm/44m air gap/6mm	Yes
Tower 3	4	Unit 2	Kitchen/Living/Dining	4	52	-	43	5mm/100m air gap/5mm	Yes
Tower 3	4	Unit 3	Master Bedroom	4	52	-	43	5mm/100m air gap/5mm	Yes
Tower 3	4	Unit 3	Bed 2	2	41	-	35	10.38mm lam	Yes
Tower 3	4	Unit 3	Bed 3	2	41	-	35	10.38mm lam	Yes
Tower 3	4	Unit 3	Kitchen/Living/Dining	3	47	-	38	14.38mm lam or 5mm/44m air gap/6mm	Yes
Tower 3	4	Unit 4	Master Bedroom	1	35	-	27	4mm float	Yes
Tower 3	4	Unit 4	Bed 2	0	-	-	-	Standard	No
Tower 3	4	Unit 4	Bed 3	2	41	-	35	10.38mm lam	Yes
Tower 3	4	Unit 4	Kitchen/Living/Dining	0	-	-	-	Standard	No
Tower 3	4	Unit 5	Master Bedroom	0	-	-	-	Standard	No
Tower 3	4	Unit 5	Bed 2	0	-	-	-	Standard	No
Tower 3	4	Unit 5	Kitchen/Living/Dining	0	-	-	-	Standard	No
Tower 3	4	Unit 6	Master Bedroom	0	-	-	-	Standard	No
Tower 3	4	Unit 6	Kitchen/Living/Dining	0	-	-	-	Standard	No
Tower 3	4	Unit 7	Master Bedroom	1	35	-	27	4mm float	Yes

Tower	Level	Unit	Location	QDC Cat	Rw Ratings			Glazing Recommendations	Acoustic Seals
					Wall	Roof	Glazing		
Tower 3	4	Unit 7	Kitchen/Living/Dining	2	41	-	35	10.38mm lam	Yes
Tower 3	5	Unit 1	Master Bedroom	4	52	-	43	5mm/100m air gap/5mm	Yes
Tower 3	5	Unit 1	Bed 2	3	47	-	38	14.38mm lam or 5mm/44m air gap/6mm	Yes
Tower 3	5	Unit 1	Kitchen/Living/Dining	3	47	-	38	14.38mm lam or 5mm/44m air gap/6mm	Yes
Tower 3	5	Unit 2	Master Bedroom	4	52	-	43	5mm/100m air gap/5mm	Yes
Tower 3	5	Unit 2	Bed 2	3	47	-	38	14.38mm lam or 5mm/44m air gap/6mm	Yes
Tower 3	5	Unit 2	Kitchen/Living/Dining	4	52	-	43	5mm/100m air gap/5mm	Yes
Tower 3	5	Unit 3	Master Bedroom	4	52	-	43	5mm/100m air gap/5mm	Yes
Tower 3	5	Unit 3	Bed 2	2	41	-	35	10.38mm lam	Yes
Tower 3	5	Unit 3	Bed 3	2	41	-	35	10.38mm lam	Yes
Tower 3	5	Unit 3	Kitchen/Living/Dining	3	47	-	38	14.38mm lam or 5mm/44m air gap/6mm	Yes
Tower 3	5	Unit 4	Master Bedroom	1	35	-	27	4mm float	Yes
Tower 3	5	Unit 4	Bed 2	0	-	-	-	Standard	No
Tower 3	5	Unit 4	Bed 3	2	41	-	35	10.38mm lam	Yes
Tower 3	5	Unit 4	Kitchen/Living/Dining	0	-	-	-	Standard	No
Tower 3	5	Unit 5	Master Bedroom	0	-	-	-	Standard	No
Tower 3	5	Unit 5	Bed 2	0	-	-	-	Standard	No
Tower 3	5	Unit 5	Kitchen/Living/Dining	0	-	-	-	Standard	No
Tower 3	5	Unit 6	Master Bedroom	0	-	-	-	Standard	No
Tower 3	5	Unit 6	Kitchen/Living/Dining	0	-	-	-	Standard	No
Tower 3	5	Unit 7	Master Bedroom	2	41	-	35	10.38mm lam	Yes
Tower 3	5	Unit 7	Kitchen/Living/Dining	2	41	-	35	10.38mm lam	Yes
Tower 3	6	Unit 1	Master Bedroom	4	52	-	43	5mm/100m air gap/5mm	Yes
Tower 3	6	Unit 1	Bed 2	3	47	-	38	14.38mm lam or 5mm/44m air gap/6mm	Yes
Tower 3	6	Unit 1	Kitchen/Living/Dining	3	47	-	38	14.38mm lam or 5mm/44m air gap/6mm	Yes
Tower 3	6	Unit 2	Master Bedroom	4	52	-	43	5mm/100m air gap/5mm	Yes
Tower 3	6	Unit 2	Bed 2	3	47	-	38	14.38mm lam or 5mm/44m air gap/6mm	Yes
Tower 3	6	Unit 2	Kitchen/Living/Dining	3	47	-	38	14.38mm lam or 5mm/44m air gap/6mm	Yes
Tower 3	6	Unit 3	Master Bedroom	4	52	-	43	5mm/100m air gap/5mm	Yes
Tower 3	6	Unit 3	Bed 2	2	41	-	35	10.38mm lam	Yes
Tower 3	6	Unit 3	Bed 3	2	41	-	35	10.38mm lam	Yes
Tower 3	6	Unit 3	Kitchen/Living/Dining	3	47	-	38	14.38mm lam or 5mm/44m air gap/6mm	Yes
Tower 3	6	Unit 4	Master Bedroom	1	35	-	27	4mm float	Yes
Tower 3	6	Unit 4	Bed 2	0	-	-	-	Standard	No
Tower 3	6	Unit 4	Bed 3	2	41	-	35	10.38mm lam	Yes
Tower 3	6	Unit 4	Kitchen/Living/Dining	0	-	-	-	Standard	No
Tower 3	6	Unit 5	Master Bedroom	0	-	-	-	Standard	No
Tower 3	6	Unit 5	Bed 2	0	-	-	-	Standard	No
Tower 3	6	Unit 5	Kitchen/Living/Dining	0	-	-	-	Standard	No
Tower 3	6	Unit 6	Master Bedroom	0	-	-	-	Standard	No
Tower 3	6	Unit 6	Kitchen/Living/Dining	1	35	-	27	4mm float	Yes
Tower 3	6	Unit 7	Master Bedroom	2	41	-	35	10.38mm lam	Yes
Tower 3	6	Unit 7	Kitchen/Living/Dining	2	41	-	35	10.38mm lam	Yes
Tower 3	7	Unit 1	Master Bedroom	4	52	-	43	5mm/100m air gap/5mm	Yes
Tower 3	7	Unit 1	Bed 2	3	47	-	38	14.38mm lam or 5mm/44m air gap/6mm	Yes
Tower 3	7	Unit 1	Kitchen/Living/Dining	3	47	-	38	14.38mm lam or 5mm/44m air gap/6mm	Yes
Tower 3	7	Unit 2	Master Bedroom	4	52	-	43	5mm/100m air gap/5mm	Yes
Tower 3	7	Unit 2	Bed 2	3	47	-	38	14.38mm lam or 5mm/44m air gap/6mm	Yes
Tower 3	7	Unit 2	Kitchen/Living/Dining	3	47	-	38	14.38mm lam or 5mm/44m air gap/6mm	Yes
Tower 3	7	Unit 3	Master Bedroom	4	52	-	43	5mm/100m air gap/5mm	Yes
Tower 3	7	Unit 3	Bed 2	2	41	-	35	10.38mm lam	Yes
Tower 3	7	Unit 3	Bed 3	2	41	-	35	10.38mm lam	Yes
Tower 3	7	Unit 3	Kitchen/Living/Dining	3	47	-	38	14.38mm lam or 5mm/44m air gap/6mm	Yes
Tower 3	7	Unit 4	Master Bedroom	1	35	-	27	4mm float	Yes

Tower	Level	Unit	Location	QDC Cat	Rw Ratings			Glazing Recommendations	Acoustic Seals
					Wall	Roof	Glazing		
Tower 3	7	Unit 4	Bed 2	0	-	-	-	Standard	No
Tower 3	7	Unit 4	Bed 3	2	41	-	35	10.38mm lam	Yes
Tower 3	7	Unit 4	Kitchen/Living/Dining	0	-	-	-	Standard	No
Tower 3	7	Unit 5	Master Bedroom	0	-	-	-	Standard	No
Tower 3	7	Unit 5	Bed 2	0	-	-	-	Standard	No
Tower 3	7	Unit 5	Kitchen/Living/Dining	0	-	-	-	Standard	No
Tower 3	7	Unit 6	Master Bedroom	1	35	-	27	4mm float	Yes
Tower 3	7	Unit 6	Kitchen/Living/Dining	1	35	-	27	4mm float	Yes
Tower 3	7	Unit 7	Master Bedroom	2	41	-	35	10.38mm lam	Yes
Tower 3	7	Unit 7	Kitchen/Living/Dining	3	47	-	38	14.38mm lam or 5mm/44m air gap/6mm	Yes
Tower 3	8	Unit 1	Master Bedroom	4	52	45	43	5mm/100m air gap/5mm	Yes
Tower 3	8	Unit 1	Bed 2	3	47	41	38	14.38mm lam or 5mm/44m air gap/6mm	Yes
Tower 3	8	Unit 1	Kitchen/Living/Dining	3	47	41	38	14.38mm lam or 5mm/44m air gap/6mm	Yes
Tower 3	8	Unit 2	Master Bedroom	4	52	45	43	5mm/100m air gap/5mm	Yes
Tower 3	8	Unit 2	Bed 2	3	47	41	38	14.38mm lam or 5mm/44m air gap/6mm	Yes
Tower 3	8	Unit 2	Kitchen/Living/Dining	3	47	41	38	14.38mm lam or 5mm/44m air gap/6mm	Yes
Tower 3	8	Unit 3	Master Bedroom	4	52	45	43	5mm/100m air gap/5mm	Yes
Tower 3	8	Unit 3	Bed 2	2	41	38	35	10.38mm lam	Yes
Tower 3	8	Unit 3	Bed 3	2	41	38	35	10.38mm lam	Yes
Tower 3	8	Unit 3	Kitchen/Living/Dining	3	47	41	38	14.38mm lam or 5mm/44m air gap/6mm	Yes
Tower 3	8	Unit 4	Master Bedroom	1	35	35	27	4mm float	Yes
Tower 3	8	Unit 4	Bed 2	0	-	-	-	Standard	No
Tower 3	8	Unit 4	Bed 3	1	35	35	27	4mm float	Yes
Tower 3	8	Unit 4	Kitchen/Living/Dining	0	-	-	-	Standard	No
Tower 3	8	Unit 5	Master Bedroom	0	-	-	-	Standard	No
Tower 3	8	Unit 5	Bed 2	0	-	-	-	Standard	No
Tower 3	8	Unit 5	Kitchen/Living/Dining	0	-	-	-	Standard	No
Tower 3	8	Unit 6	Master Bedroom	1	35	35	27	4mm float	Yes
Tower 3	8	Unit 6	Kitchen/Living/Dining	2	41	38	35	10.38mm lam	Yes
Tower 3	8	Unit 7	Master Bedroom	2	41	38	35	10.38mm lam	Yes
Tower 3	8	Unit 7	Kitchen/Living/Dining	3	47	41	38	14.38mm lam or 5mm/44m air gap/6mm	Yes

Table 17: Rw and Glazing Recommendations – Tower 2

Tower	Level	Unit	Location	QDC Cat	Rw Ratings			Glazing Recommendations	Acoustic Seals
					Wall	Roof	Glazing		
Tower 2	1	Unit 1	Master Bedroom	2	41	-	35	10.38mm lam	Yes
Tower 2	1	Unit 1	Bed 2	1	35	-	27	4mm float	Yes
Tower 2	1	Unit 1	Kitchen/Living/Dining	2	41	-	35	10.38mm lam	Yes
Tower 2	1	Unit 2	Master Bedroom	2	41	-	35	10.38mm lam	Yes
Tower 2	1	Unit 2	Bed 2	1	35	-	27	4mm float	Yes
Tower 2	1	Unit 2	Kitchen/Living/Dining	2	41	-	35	10.38mm lam	Yes
Tower 2	1	Unit 3	Master Bedroom	2	41	-	35	10.38mm lam	Yes
Tower 2	1	Unit 3	Bed 2	2	41	-	35	10.38mm lam	Yes
Tower 2	1	Unit 3	Kitchen/Living/Dining	2	41	-	35	10.38mm lam	Yes
Tower 2	2	Unit 1	Master Bedroom	4	52	-	43	5mm/100m air gap/5mm	Yes
Tower 2	2	Unit 1	Bed 2	3	47	-	38	14.38mm lam or 5mm/44m air gap/6mm	Yes
Tower 2	2	Unit 1	Kitchen/Living/Dining	3	47	-	38	14.38mm lam or 5mm/44m air gap/6mm	Yes
Tower 2	2	Unit 2	Master Bedroom	4	52	-	43	5mm/100m air gap/5mm	Yes
Tower 2	2	Unit 2	Bed 2	2	41	-	35	10.38mm lam	Yes
Tower 2	2	Unit 2	Kitchen/Living/Dining	4	52	-	43	5mm/100m air gap/5mm	Yes

Tower	Level	Unit	Location	QDC Cat	Rw Ratings			Glazing Recommendations	Acoustic Seals
					Wall	Roof	Glazing		
Tower 2	2	Unit 3	Master Bedroom	4	52	-	43	5mm/100m air gap/5mm	Yes
Tower 2	2	Unit 3	Bed 2	3	47	-	38	14.38mm lam or 5mm/44m air gap/6mm	Yes
Tower 2	2	Unit 3	Kitchen/Living/Dining	3	47	-	38	14.38mm lam or 5mm/44m air gap/6mm	Yes
Tower 2	2	Unit 4	Master Bedroom	0	-	-	-	Standard	No
Tower 2	2	Unit 4	Kitchen/Living/Dining	3	47	-	38	14.38mm lam or 5mm/44m air gap/6mm	Yes
Tower 2	2	Unit 5	Master Bedroom	1	35	-	27	4mm float	Yes
Tower 2	2	Unit 5	Bed 2	2	-	-	-	Standard	No
Tower 2	2	Unit 5	Bed 3	2	41	-	35	10.38mm lam	Yes
Tower 2	2	Unit 5	Kitchen/Living/Dining	0	-	-	-	Standard	No
Tower 2	2	Unit 6	Master Bedroom	0	-	-	-	Standard	No
Tower 2	2	Unit 6	Bed 2	0	-	-	-	Standard	No
Tower 2	2	Unit 6	Kitchen/Living/Dining	0	-	-	-	Standard	No
Tower 2	2	Unit 7	Kitchen/Living/Dining	1	35	-	27	4mm float	Yes
Tower 2	2	Unit 7	Master Bedroom	1	35	-	27	4mm float	Yes
Tower 2	2	Unit 8	Master Bedroom	0	-	-	-	Standard	No
Tower 2	2	Unit 8	Kitchen/Living/Dining	2	41	-	35	10.38mm lam	Yes
Tower 2	3	Unit 1	Master Bedroom	4	52	-	43	5mm/100m air gap/5mm	Yes
Tower 2	3	Unit 1	Bed 2	3	47	-	38	14.38mm lam or 5mm/44m air gap/6mm	Yes
Tower 2	3	Unit 1	Kitchen/Living/Dining	3	47	-	38	14.38mm lam or 5mm/44m air gap/6mm	Yes
Tower 2	3	Unit 2	Master Bedroom	4	52	-	43	5mm/100m air gap/5mm	Yes
Tower 2	3	Unit 2	Bed 2	3	47	-	38	14.38mm lam or 5mm/44m air gap/6mm	Yes
Tower 2	3	Unit 2	Kitchen/Living/Dining	4	52	-	43	5mm/100m air gap/5mm	Yes
Tower 2	3	Unit 3	Master Bedroom	4	52	-	43	5mm/100m air gap/5mm	Yes
Tower 2	3	Unit 3	Bed 2	3	47	-	38	14.38mm lam or 5mm/44m air gap/6mm	Yes
Tower 2	3	Unit 3	Kitchen/Living/Dining	3	47	-	38	14.38mm lam or 5mm/44m air gap/6mm	Yes
Tower 2	3	Unit 4	Master Bedroom	0	-	-	-	Standard	No
Tower 2	3	Unit 4	Kitchen/Living/Dining	3	47	-	38	14.38mm lam or 5mm/44m air gap/6mm	Yes
Tower 2	3	Unit 5	Master Bedroom	2	41	-	35	10.38mm lam	Yes
Tower 2	3	Unit 5	Bed 2	2	41	-	35	10.38mm lam	Yes
Tower 2	3	Unit 5	Bed 3	2	41	-	35	10.38mm lam	Yes
Tower 2	3	Unit 5	Kitchen/Living/Dining	0	-	-	-	Standard	No
Tower 2	3	Unit 6	Master Bedroom	0	-	-	-	Standard	No
Tower 2	3	Unit 6	Bed 2	0	-	-	-	Standard	No
Tower 2	3	Unit 6	Kitchen/Living/Dining	0	-	-	-	Standard	No
Tower 2	3	Unit 7	Master Bedroom	1	35	-	27	4mm float	Yes
Tower 2	3	Unit 7	Bed 2	1	35	-	27	4mm float	Yes
Tower 2	3	Unit 7	Bed 3	1	35	-	27	4mm float	Yes
Tower 2	3	Unit 7	Kitchen/Living/Dining	0	-	-	-	Standard	No
Tower 2	3	Unit 8	Master Bedroom	0	-	-	-	Standard	No
Tower 2	3	Unit 8	Kitchen/Living/Dining	2	41	-	35	10.38mm lam	Yes
Tower 2	4	Unit 1	Master Bedroom	4	52	-	43	5mm/100m air gap/5mm	Yes
Tower 2	4	Unit 1	Bed 2	3	47	-	38	14.38mm lam or 5mm/44m air gap/6mm	Yes
Tower 2	4	Unit 1	Kitchen/Living/Dining	3	47	-	38	14.38mm lam or 5mm/44m air gap/6mm	Yes
Tower 2	4	Unit 2	Master Bedroom	4	52	-	43	5mm/100m air gap/5mm	Yes
Tower 2	4	Unit 2	Bed 2	3	47	-	38	14.38mm lam or 5mm/44m air gap/6mm	Yes
Tower 2	4	Unit 2	Kitchen/Living/Dining	4	52	-	43	5mm/100m air gap/5mm	Yes
Tower 2	4	Unit 3	Master Bedroom	4	52	-	43	5mm/100m air gap/5mm	Yes
Tower 2	4	Unit 3	Bed 2	3	47	-	38	14.38mm lam or 5mm/44m air gap/6mm	Yes
Tower 2	4	Unit 3	Kitchen/Living/Dining	3	47	-	38	14.38mm lam or 5mm/44m air gap/6mm	Yes
Tower 2	4	Unit 4	Bed 1	1	35	-	27	4mm float	Yes
Tower 2	4	Unit 4	Kitchen/Living/Dining	3	47	-	38	14.38mm lam or 5mm/44m air gap/6mm	Yes
Tower 2	4	Unit 5	Master Bedroom	2	41	-	35	10.38mm lam	Yes
Tower 2	4	Unit 5	Bed 2	2	41	-	35	10.38mm lam	Yes
Tower 2	4	Unit 5	Bed 3	2	41	-	35	10.38mm lam	Yes

Tower	Level	Unit	Location	QDC Cat	Rw Ratings			Glazing Recommendations	Acoustic Seals
					Wall	Roof	Glazing		
Tower 2	4	Unit 5	Kitchen/Living/Dining	0	-	-	-	Standard	No
Tower 2	4	Unit 6	Master Bedroom	0	-	-	-	Standard	No
Tower 2	4	Unit 6	Bed 2	0	-	-	-	Standard	No
Tower 2	4	Unit 6	Kitchen/Living/Dining	0	-	-	-	Standard	No
Tower 2	4	Unit 7	Master Bedroom	1	35	-	27	4mm float	Yes
Tower 2	4	Unit 7	Bed 2	1	35	-	27	4mm float	Yes
Tower 2	4	Unit 7	Bed 3	1	35	-	27	4mm float	Yes
Tower 2	4	Unit 7	Kitchen/Living/Dining	0	-	-	-	Standard	No
Tower 2	4	Unit 8	Master Bedroom	0	-	-	-	Standard	No
Tower 2	4	Unit 8	Kitchen/Living/Dining	2	41	-	35	10.38mm lam	Yes
Tower 2	5	Unit 1	Master Bedroom	4	52	-	43	5mm/100m air gap/5mm	Yes
Tower 2	5	Unit 1	Bed 2	3	47	-	38	14.38mm lam or 5mm/44m air gap/6mm	Yes
Tower 2	5	Unit 1	Kitchen/Living/Dining	3	47	-	38	14.38mm lam or 5mm/44m air gap/6mm	Yes
Tower 2	5	Unit 2	Master Bedroom	4	52	-	43	5mm/100m air gap/5mm	Yes
Tower 2	5	Unit 2	Bed 2	2	41	-	35	10.38mm lam	Yes
Tower 2	5	Unit 2	Kitchen/Living/Dining	4	52	-	43	5mm/100m air gap/5mm	Yes
Tower 2	5	Unit 3	Master Bedroom	4	52	-	43	5mm/100m air gap/5mm	Yes
Tower 2	5	Unit 3	Bed 2	3	47	-	38	14.38mm lam or 5mm/44m air gap/6mm	Yes
Tower 2	5	Unit 3	Kitchen/Living/Dining	3	47	-	38	14.38mm lam or 5mm/44m air gap/6mm	Yes
Tower 2	5	Unit 4	Master Bedroom	2	-	-	-	Standard	No
Tower 2	5	Unit 4	Kitchen/Living/Dining	3	47	-	38	14.38mm lam or 5mm/44m air gap/6mm	Yes
Tower 2	5	Unit 5	Master Bedroom	2	41	-	35	10.38mm lam	Yes
Tower 2	5	Unit 5	Bed 2	3	47	-	38	14.38mm lam or 5mm/44m air gap/6mm	Yes
Tower 2	5	Unit 5	Bed 3	3	47	-	38	14.38mm lam or 5mm/44m air gap/6mm	Yes
Tower 2	5	Unit 5	Kitchen/Living/Dining	0	-	-	-	Standard	No
Tower 2	5	Unit 6	Master Bedroom	0	-	-	-	Standard	No
Tower 2	5	Unit 6	Bed 2	0	-	-	-	Standard	No
Tower 2	5	Unit 6	Kitchen/Living/Dining	0	-	-	-	Standard	No
Tower 2	5	Unit 7	Master Bedroom	1	35	-	27	4mm float	Yes
Tower 2	5	Unit 7	Bed 2	1	35	-	27	4mm float	Yes
Tower 2	5	Unit 7	Bed 3	1	35	-	27	4mm float	Yes
Tower 2	5	Unit 7	Kitchen/Living/Dining	0	-	-	-	Standard	No
Tower 2	5	Unit 8	Master Bedroom	0	-	-	-	Standard	No
Tower 2	5	Unit 8	Kitchen/Living/Dining	2	35	-	27	4mm float	Yes
Tower 2	6	Unit 1	Master Bedroom	4	52	-	43	5mm/100m air gap/5mm	Yes
Tower 2	6	Unit 1	Bed 2	2	41	-	35	10.38mm lam	Yes
Tower 2	6	Unit 1	Kitchen/Living/Dining	3	47	-	38	14.38mm lam or 5mm/44m air gap/6mm	Yes
Tower 2	6	Unit 2	Master Bedroom	4	52	-	43	5mm/100m air gap/5mm	Yes
Tower 2	6	Unit 2	Bed 2	2	41	-	35	10.38mm lam	Yes
Tower 2	6	Unit 2	Kitchen/Living/Dining	4	52	-	43	5mm/100m air gap/5mm	Yes
Tower 2	6	Unit 3	Master Bedroom	4	52	-	43	5mm/100m air gap/5mm	Yes
Tower 2	6	Unit 3	Bed 2	3	47	-	38	14.38mm lam or 5mm/44m air gap/6mm	Yes
Tower 2	6	Unit 3	Kitchen/Living/Dining	3	47	-	38	14.38mm lam or 5mm/44m air gap/6mm	Yes
Tower 2	6	Unit 4	Master Bedroom	2	41	-	35	10.38mm lam	Yes
Tower 2	6	Unit 4	Kitchen/Living/Dining	3	47	-	38	14.38mm lam or 5mm/44m air gap/6mm	Yes
Tower 2	6	Unit 5	Master Bedroom	3	47	-	38	14.38mm lam or 5mm/44m air gap/6mm	Yes
Tower 2	6	Unit 5	Bed 2	3	47	-	38	14.38mm lam or 5mm/44m air gap/6mm	Yes
Tower 2	6	Unit 5	Bed 3	3	47	-	38	14.38mm lam or 5mm/44m air gap/6mm	Yes
Tower 2	6	Unit 5	Kitchen/Living/Dining	0	-	-	-	Standard	No
Tower 2	6	Unit 6	Master Bedroom	0	-	-	-	Standard	No
Tower 2	6	Unit 6	Bed 2	0	-	-	-	Standard	No
Tower 2	6	Unit 6	Kitchen/Living/Dining	0	-	-	-	Standard	No
Tower 2	6	Unit 7	Master Bedroom	1	35	-	27	4mm float	Yes
Tower 2	6	Unit 7	Bed 2	1	35	-	27	4mm float	Yes

Tower	Level	Unit	Location	QDC Cat	Rw Ratings			Glazing Recommendations	Acoustic Seals
					Wall	Roof	Glazing		
Tower 2	6	Unit 7	Bed 3	1	35	-	27	4mm float	Yes
Tower 2	6	Unit 7	Kitchen/Living/Dining	0	-	-	-	Standard	No
Tower 2	6	Unit 8	Master Bedroom	0	-	-	-	Standard	No
Tower 2	6	Unit 8	Kitchen/Living/Dining	2	41	-	35	10.38mm lam	Yes
Tower 2	7	Unit 1	Master Bedroom	4	52	-	43	5mm/100m air gap/5mm	Yes
Tower 2	7	Unit 1	Bed 2	2	-	-	-	Standard	No
Tower 2	7	Unit 1	Kitchen/Living/Dining	3	47	-	38	14.38mm lam or 5mm/44m air gap/6mm	Yes
Tower 2	7	Unit 2	Master Bedroom	4	52	-	43	5mm/100m air gap/5mm	Yes
Tower 2	7	Unit 2	Bed 2	2	41	-	35	10.38mm lam	Yes
Tower 2	7	Unit 2	Kitchen/Living/Dining	3	47	-	38	14.38mm lam or 5mm/44m air gap/6mm	Yes
Tower 2	7	Unit 3	Master Bedroom	4	52	-	43	5mm/100m air gap/5mm	Yes
Tower 2	7	Unit 3	Bed 2	3	47	-	38	14.38mm lam or 5mm/44m air gap/6mm	Yes
Tower 2	7	Unit 3	Kitchen/Living/Dining	3	47	41	38	14.38mm lam or 5mm/44m air gap/6mm	Yes
Tower 2	7	Unit 4	Master Bedroom	2	41	-	35	10.38mm lam	Yes
Tower 2	7	Unit 4	Kitchen/Living/Dining	3	47	-	38	14.38mm lam or 5mm/44m air gap/6mm	Yes
Tower 2	7	Unit 5	Master Bedroom	3	47	-	38	14.38mm lam or 5mm/44m air gap/6mm	Yes
Tower 2	7	Unit 5	Bed 2	3	47	-	38	14.38mm lam or 5mm/44m air gap/6mm	Yes
Tower 2	7	Unit 5	Bed 3	3	47	-	38	14.38mm lam or 5mm/44m air gap/6mm	Yes
Tower 2	7	Unit 5	Kitchen/Living/Dining	0	-	-	-	Standard	No
Tower 2	7	Unit 6	Master Bedroom	0	-	-	-	Standard	No
Tower 2	7	Unit 6	Bed 2	0	-	-	-	Standard	No
Tower 2	7	Unit 6	Kitchen/Living/Dining	0	-	-	-	Standard	No
Tower 2	7	Unit 7	Master Bedroom	1	35	-	27	4mm float	Yes
Tower 2	7	Unit 7	Bed 2	1	35	-	27	4mm float	Yes
Tower 2	7	Unit 7	Bed 3	1	35	-	27	4mm float	Yes
Tower 2	7	Unit 7	Kitchen/Living/Dining	0	-	-	-	Standard	No
Tower 2	7	Unit 8	Master Bedroom	0	-	-	-	Standard	No
Tower 2	7	Unit 8	Kitchen/Living/Dining	2	41	-	35	10.38mm lam	Yes
Tower 2	8	Unit 1	Master Bedroom	4	52	45	43	5mm/100m air gap/5mm	Yes
Tower 2	8	Unit 1	Bed 2	2	41	38	35	10.38mm lam	Yes
Tower 2	8	Unit 1	Kitchen/Living/Dining	3	47	41	38	14.38mm lam or 5mm/44m air gap/6mm	Yes
Tower 2	8	Unit 2	Master Bedroom	4	52	45	43	5mm/100m air gap/5mm	Yes
Tower 2	8	Unit 2	Bed 2	2	41	38	35	10.38mm lam	Yes
Tower 2	8	Unit 2	Kitchen/Living/Dining	3	47	41	38	14.38mm lam or 5mm/44m air gap/6mm	Yes
Tower 2	8	Unit 3	Master Bedroom	4	52	45	43	5mm/100m air gap/5mm	Yes
Tower 2	8	Unit 3	Bed 2	3	47	41	38	14.38mm lam or 5mm/44m air gap/6mm	Yes
Tower 2	8	Unit 3	Kitchen/Living/Dining	3	47	41	38	14.38mm lam or 5mm/44m air gap/6mm	Yes
Tower 2	8	Unit 4	Master Bedroom	2	41	38	35	10.38mm lam	Yes
Tower 2	8	Unit 4	Kitchen/Living/Dining	3	47	41	38	14.38mm lam or 5mm/44m air gap/6mm	Yes
Tower 2	8	Unit 5	Master Bedroom	3	47	41	38	14.38mm lam or 5mm/44m air gap/6mm	Yes
Tower 2	8	Unit 5	Bed 2	3	47	41	38	14.38mm lam or 5mm/44m air gap/6mm	Yes
Tower 2	8	Unit 5	Bed 3	3	47	41	38	14.38mm lam or 5mm/44m air gap/6mm	Yes
Tower 2	8	Unit 5	Kitchen/Living/Dining	0	-	-	-	Standard	No
Tower 2	8	Unit 6	Master Bedroom	0	-	-	-	Standard	No
Tower 2	8	Unit 6	Bed 2	0	-	-	-	Standard	No
Tower 2	8	Unit 6	Kitchen/Living/Dining	0	-	-	-	Standard	No
Tower 2	8	Unit 7	Master Bedroom	1	35	35	27	4mm float	Yes
Tower 2	8	Unit 7	Bed 2	1	35	35	27	4mm float	Yes
Tower 2	8	Unit 7	Bed 3	1	35	35	27	4mm float	Yes
Tower 2	8	Unit 7	Kitchen/Living/Dining	0	-	-	-	Standard	No
Tower 2	8	Unit 8	Master Bedroom	0	-	-	-	Standard	No
Tower 2	8	Unit 8	Kitchen/Living/Dining	2	41	38	35	10.38mm lam	Yes

Table 18: Rw and Glazing Recommendations – Tower 1

Tower	Level	Unit	Location	QDC Cat	Rw Ratings			Glazing Recommendations	Acoustic Seals
					Wall	Roof	Glazing		
Tower 1	1	Unit 5	Master Bedroom	0	-	-	-	Standard	No
Tower 1	1	Unit 5	Bed 2	0	-	-	-	Standard	No
Tower 1	1	Unit 5	Kitchen/Living/Dining	0	-	-	-	Standard	No
Tower 1	1	Unit 2	Master Bedroom	0	-	-	-	Standard	No
Tower 1	1	Unit 2	Bed 2	0	-	-	-	Standard	No
Tower 1	1	Unit 2	Bed 3	0	-	-	-	Standard	No
Tower 1	1	Unit 2	Bed 4	0	-	-	-	Standard	No
Tower 1	1	Unit 2	Kitchen/Living/Dining	0	-	-	-	Standard	No
Tower 1	2	Unit 1	Master Bedroom	1	35	-	27	4mm float	Yes
Tower 1	2	Unit 1	Bed 2	0	-	-	-	Standard	No
Tower 1	2	Unit 1	Bed 3	0	-	-	-	Standard	No
Tower 1	2	Unit 1	Kitchen/Living/Dining	0	-	-	-	Standard	No
Tower 1	2	Unit 2	Master Bedroom	1	35	-	27	4mm float	Yes
Tower 1	2	Unit 2	Bed 2	0	-	-	-	Standard	No
Tower 1	2	Unit 2	Kitchen/Living/Dining	1	35	-	27	4mm float	Yes
Tower 1	2	Unit 3	Master Bedroom	1	35	-	27	4mm float	Yes
Tower 1	2	Unit 3	Bed 2	0	-	-	-	Standard	No
Tower 1	2	Unit 3	Kitchen/Living/Dining	0	-	-	-	Standard	No
Tower 1	2	Unit 4	Master Bedroom	0	-	-	-	Standard	No
Tower 1	2	Unit 4	Bed 2	1	35	-	27	4mm float	Yes
Tower 1	2	Unit 4	Kitchen/Living/Dining	2	41	-	35	10.38mm lam	Yes
Tower 1	2	Unit 5	Master Bedroom	0	-	-	-	Standard	No
Tower 1	2	Unit 5	Kitchen/Living/Dining	0	-	-	-	Standard	No
Tower 1	2	Unit 6	Master Bedroom	0	-	-	-	Standard	No
Tower 1	2	Unit 6	Bed 2	0	-	-	-	Standard	No
Tower 1	2	Unit 6	Bed 3	0	-	-	-	Standard	No
Tower 1	2	Unit 6	Bed 4	0	-	-	-	Standard	No
Tower 1	2	Unit 6	Kitchen/Living/Dining	0	-	-	-	Standard	No
Tower 1	2	Unit 6	Kitchen/Living/Dining	0	-	-	-	Standard	No
Tower 1	2	Unit 7	Master Bedroom	0	-	-	-	Standard	No
Tower 1	2	Unit 7	Bed 2	0	-	-	-	Standard	No
Tower 1	2	Unit 7	Bed 3	0	-	-	-	Standard	No
Tower 1	2	Unit 7	Kitchen/Living/Dining	0	-	-	-	Standard	No
Tower 1	2	Unit 9	Master Bedroom	0	-	-	-	Standard	No
Tower 1	2	Unit 9	Bed 2	0	-	-	-	Standard	No
Tower 1	2	Unit 9	Kitchen/Living/Dining	0	-	-	-	Standard	No
Tower 1	3	Unit 1	Master Bedroom	1	35	-	27	4mm float	Yes
Tower 1	3	Unit 1	Bed 2	0	-	-	-	Standard	No
Tower 1	3	Unit 1	Bed 3	0	-	-	-	Standard	No
Tower 1	3	Unit 1	Kitchen/Living/Dining	0	-	-	-	Standard	No
Tower 1	3	Unit 2	Master Bedroom	1	35	-	27	4mm float	Yes
Tower 1	3	Unit 2	Bed 2	0	-	-	-	Standard	No
Tower 1	3	Unit 2	Kitchen/Living/Dining	1	35	-	27	4mm float	Yes
Tower 1	3	Unit 3	Master Bedroom	1	-	-	-	Standard	No
Tower 1	3	Unit 3	Bed 2	0	-	-	-	Standard	No
Tower 1	3	Unit 3	Kitchen/Living/Dining	0	-	-	-	Standard	No
Tower 1	3	Unit 4	Master Bedroom	1	-	-	-	Standard	No
Tower 1	3	Unit 4	Bed 2	1	35	-	27	4mm float	Yes
Tower 1	3	Unit 4	Kitchen/Living/Dining	2	41	-	35	10.38mm lam	Yes
Tower 1	3	Unit 5	Master Bedroom	0	-	-	-	Standard	No
Tower 1	3	Unit 5	Kitchen/Living/Dining	0	-	-	-	Standard	No
Tower 1	3	Unit 6	Master Bedroom	0	-	-	-	Standard	No
Tower 1	3	Unit 6	Bed 2	0	-	-	-	Standard	No
Tower 1	3	Unit 6	Bed 3	0	-	-	-	Standard	No

Tower	Level	Unit	Location	QDC Cat	Rw Ratings			Glazing Recommendations	Acoustic Seals
					Wall	Roof	Glazing		
Tower 1	3	Unit 6	Bed 4	0	-	-	-	Standard	No
Tower 1	3	Unit 6	Kitchen/Living/Dining	0	-	-	-	Standard	No
Tower 1	3	Unit 6	Kitchen/Living/Dining	0	-	-	-	Standard	No
Tower 1	3	Unit 7	Master Bedroom	0	-	-	-	Standard	No
Tower 1	3	Unit 7	Bed 2	0	-	-	-	Standard	No
Tower 1	3	Unit 7	Bed 3	0	-	-	-	Standard	No
Tower 1	3	Unit 7	Kitchen/Living/Dining	0	-	-	-	Standard	No
Tower 1	3	Unit 8	Master Bedroom	0	-	-	-	Standard	No
Tower 1	3	Unit 8	Bed 2	0	-	-	-	Standard	No
Tower 1	3	Unit 8	Bed 3	0	-	-	-	Standard	No
Tower 1	3	Unit 8	Kitchen/Living/Dining	0	-	-	-	Standard	No
Tower 1	3	Unit 9	Master Bedroom	0	-	-	-	Standard	No
Tower 1	3	Unit 9	Bed 2	0	-	-	-	Standard	No
Tower 1	3	Unit 9	Kitchen/Living/Dining	0	-	-	-	Standard	No
Tower 1	4	Unit 1	Master Bedroom	1	35	-	27	4mm float	Yes
Tower 1	4	Unit 1	Bed 2	0	-	-	-	Standard	No
Tower 1	4	Unit 1	Bed 3	0	-	-	-	Standard	No
Tower 1	4	Unit 1	Kitchen/Living/Dining	0	-	-	-	Standard	No
Tower 1	4	Unit 2	Master Bedroom	1	35	-	27	4mm float	Yes
Tower 1	4	Unit 2	Bed 2	0	-	-	-	Standard	No
Tower 1	4	Unit 2	Kitchen/Living/Dining	1	35	-	27	4mm float	Yes
Tower 1	4	Unit 3	Master Bedroom	2	41	-	35	10.38mm lam	Yes
Tower 1	4	Unit 3	Bed 2	0	-	-	-	Standard	No
Tower 1	4	Unit 3	Kitchen/Living/Dining	0	-	-	-	Standard	No
Tower 1	4	Unit 4	Master Bedroom	1	35	-	27	4mm float	Yes
Tower 1	4	Unit 4	Bed 2	1	35	-	27	4mm float	Yes
Tower 1	4	Unit 4	Kitchen/Living/Dining	2	41	-	35	10.38mm lam	Yes
Tower 1	4	Unit 5	Master Bedroom	0	-	-	-	Standard	No
Tower 1	4	Unit 5	Kitchen/Living/Dining	0	-	-	-	Standard	No
Tower 1	4	Unit 6	Master Bedroom	0	-	-	-	Standard	No
Tower 1	4	Unit 6	Bed 2	0	-	-	-	Standard	No
Tower 1	4	Unit 6	Bed 3	0	-	-	-	Standard	No
Tower 1	4	Unit 6	Bed 4	0	-	-	-	Standard	No
Tower 1	4	Unit 6	Kitchen/Living/Dining	0	-	-	-	Standard	No
Tower 1	4	Unit 6	Kitchen/Living/Dining	0	-	-	-	Standard	No
Tower 1	4	Unit 7	Master Bedroom	0	-	-	-	Standard	No
Tower 1	4	Unit 7	Bed 2	0	-	-	-	Standard	No
Tower 1	4	Unit 7	Bed 3	0	-	-	-	Standard	No
Tower 1	4	Unit 7	Kitchen/Living/Dining	0	-	-	-	Standard	No
Tower 1	4	Unit 8	Master Bedroom	0	-	-	-	Standard	No
Tower 1	4	Unit 8	Bed 2	0	-	-	-	Standard	No
Tower 1	4	Unit 8	Bed 3	0	-	-	-	Standard	No
Tower 1	4	Unit 8	Kitchen/Living/Dining	0	-	-	-	Standard	No
Tower 1	4	Unit 9	Master Bedroom	0	-	-	-	Standard	No
Tower 1	4	Unit 9	Bed 2	0	-	-	-	Standard	No
Tower 1	4	Unit 9	Kitchen/Living/Dining	0	-	-	-	Standard	No
Tower 1	5	Unit 1	Master Bedroom	1	35	-	27	4mm float	Yes
Tower 1	5	Unit 1	Bed 2	0	-	-	-	Standard	No
Tower 1	5	Unit 1	Bed 3	0	-	-	-	Standard	No
Tower 1	5	Unit 1	Kitchen/Living/Dining	1	35	-	27	4mm float	Yes
Tower 1	5	Unit 2	Master Bedroom	1	35	-	27	4mm float	Yes
Tower 1	5	Unit 2	Bed 2	0	-	-	-	Standard	No
Tower 1	5	Unit 2	Kitchen/Living/Dining	1	35	-	27	4mm float	Yes
Tower 1	5	Unit 3	Master Bedroom	2	41	-	35	10.38mm lam	Yes

Tower	Level	Unit	Location	QDC Cat	Rw Ratings			Glazing Recommendations	Acoustic Seals
					Wall	Roof	Glazing		
Tower 1	5	Unit 3	Bed 2	0	-	-	-	Standard	No
Tower 1	5	Unit 3	Kitchen/Living/Dining	0	-	-	-	Standard	No
Tower 1	5	Unit 4	Master Bedroom	1	35	-	27	4mm float	Yes
Tower 1	5	Unit 4	Bed 2	2	41	-	35	10.38mm lam	Yes
Tower 1	5	Unit 4	Kitchen/Living/Dining	2	41	-	35	10.38mm lam	Yes
Tower 1	5	Unit 5	Master Bedroom	1	35	-	27	4mm float	Yes
Tower 1	5	Unit 5	Kitchen/Living/Dining	0	-	-	-	Standard	No
Tower 1	5	Unit 6	Master Bedroom	0	-	-	-	Standard	No
Tower 1	5	Unit 6	Bed 2	0	-	-	-	Standard	No
Tower 1	5	Unit 6	Bed 3	0	-	-	-	Standard	No
Tower 1	5	Unit 6	Bed 4	0	-	-	-	Standard	No
Tower 1	5	Unit 6	Kitchen/Living/Dining	0	-	-	-	Standard	No
Tower 1	5	Unit 6	Kitchen/Living/Dining	0	-	-	-	Standard	No
Tower 1	5	Unit 7	Master Bedroom	0	-	-	-	Standard	No
Tower 1	5	Unit 7	Bed 2	0	-	-	-	Standard	No
Tower 1	5	Unit 7	Bed 3	0	-	-	-	Standard	No
Tower 1	5	Unit 7	Kitchen/Living/Dining	0	-	-	-	Standard	No
Tower 1	5	Unit 8	Master Bedroom	0	-	-	-	Standard	No
Tower 1	5	Unit 8	Bed 2	0	-	-	-	Standard	No
Tower 1	5	Unit 8	Bed 3	0	-	-	-	Standard	No
Tower 1	5	Unit 8	Kitchen/Living/Dining	0	-	-	-	Standard	No
Tower 1	5	Unit 9	Master Bedroom	0	-	-	-	Standard	No
Tower 1	5	Unit 9	Bed 2	0	-	-	-	Standard	No
Tower 1	5	Unit 9	Kitchen/Living/Dining	0	-	-	-	Standard	No
Tower 1	6	Unit 1	Master Bedroom	2	41	-	35	10.38mm lam	Yes
Tower 1	6	Unit 1	Bed 2	0	-	-	-	Standard	No
Tower 1	6	Unit 1	Bed 3	0	-	-	-	Standard	No
Tower 1	6	Unit 1	Kitchen/Living/Dining	1	35	-	27	4mm float	Yes
Tower 1	6	Unit 2	Master Bedroom	2	41	-	35	10.38mm lam	Yes
Tower 1	6	Unit 2	Bed 2	0	-	-	-	Standard	No
Tower 1	6	Unit 2	Kitchen/Living/Dining	2	41	-	35	10.38mm lam	Yes
Tower 1	6	Unit 3	Master Bedroom	2	41	-	35	10.38mm lam	Yes
Tower 1	6	Unit 3	Bed 2	0	-	-	-	Standard	No
Tower 1	6	Unit 3	Kitchen/Living/Dining	1	35	-	27	4mm float	Yes
Tower 1	6	Unit 4	Master Bedroom	1	35	-	27	4mm float	Yes
Tower 1	6	Unit 4	Bed 2	2	41	-	35	10.38mm lam	Yes
Tower 1	6	Unit 4	Kitchen/Living/Dining	2	41	-	35	10.38mm lam	Yes
Tower 1	6	Unit 5	Master Bedroom	1	35	-	27	4mm float	Yes
Tower 1	6	Unit 5	Kitchen/Living/Dining	0	-	-	-	Standard	No
Tower 1	6	Unit 6	Master Bedroom	0	-	-	-	Standard	No
Tower 1	6	Unit 6	Bed 2	0	-	-	-	Standard	No
Tower 1	6	Unit 6	Bed 3	0	-	-	-	Standard	No
Tower 1	6	Unit 6	Bed 4	0	-	-	-	Standard	No
Tower 1	6	Unit 6	Kitchen/Living/Dining	0	-	-	-	Standard	No
Tower 1	6	Unit 6	Kitchen/Living/Dining	0	-	-	-	Standard	No
Tower 1	6	Unit 7	Master Bedroom	0	-	-	-	Standard	No
Tower 1	6	Unit 7	Bed 2	0	-	-	-	Standard	No
Tower 1	6	Unit 7	Bed 3	0	-	-	-	Standard	No
Tower 1	6	Unit 7	Kitchen/Living/Dining	0	-	-	-	Standard	No
Tower 1	6	Unit 8	Master Bedroom	0	-	-	-	Standard	No
Tower 1	6	Unit 8	Bed 2	0	-	-	-	Standard	No
Tower 1	6	Unit 8	Bed 3	0	-	-	-	Standard	No
Tower 1	6	Unit 8	Kitchen/Living/Dining	0	-	-	-	Standard	No
Tower 1	6	Unit 9	Master Bedroom	0	-	-	-	Standard	No

Tower	Level	Unit	Location	QDC Cat	Rw Ratings			Glazing Recommendations	Acoustic Seals
					Wall	Roof	Glazing		
Tower 1	6	Unit 9	Bed 2	0	-	-	-	Standard	No
Tower 1	6	Unit 9	Kitchen/Living/Dining	0	-	-	-	Standard	No
Tower 1	7	Unit 1	Master Bedroom	2	41	-	35	10.38mm lam	Yes
Tower 1	7	Unit 1	Bed 2	1	35	-	27	4mm float	Yes
Tower 1	7	Unit 1	Bed 3	0	-	-	-	Standard	No
Tower 1	7	Unit 1	Kitchen/Living/Dining	1	35	-	27	4mm float	Yes
Tower 1	7	Unit 2	Master Bedroom	2	41	-	35	10.38mm lam	Yes
Tower 1	7	Unit 2	Bed 2	0	-	-	-	Standard	No
Tower 1	7	Unit 2	Kitchen/Living/Dining	2	41	-	35	10.38mm lam	Yes
Tower 1	7	Unit 3	Master Bedroom	2	41	-	35	10.38mm lam	Yes
Tower 1	7	Unit 3	Bed 2	0	-	-	-	Standard	No
Tower 1	7	Unit 3	Kitchen/Living/Dining	1	35	-	27	4mm float	Yes
Tower 1	7	Unit 4	Master Bedroom	1	35	-	27	4mm float	Yes
Tower 1	7	Unit 4	Bed 2	2	41	-	35	10.38mm lam	Yes
Tower 1	7	Unit 4	Kitchen/Living/Dining	2	41	-	35	10.38mm lam	Yes
Tower 1	7	Unit 5	Master Bedroom	1	35	-	27	4mm float	Yes
Tower 1	7	Unit 5	Kitchen/Living/Dining	0	-	-	-	Standard	No
Tower 1	7	Unit 6	Master Bedroom	0	-	-	-	Standard	No
Tower 1	7	Unit 6	Bed 2	0	-	-	-	Standard	No
Tower 1	7	Unit 6	Bed 3	0	-	-	-	Standard	No
Tower 1	7	Unit 6	Bed 4	1	35	-	27	4mm float	Yes
Tower 1	7	Unit 6	Kitchen/Living/Dining	1	35	-	27	4mm float	Yes
Tower 1	7	Unit 6	Kitchen/Living/Dining	0	-	-	-	Standard	No
Tower 1	7	Unit 7	Master Bedroom	0	-	-	-	Standard	No
Tower 1	7	Unit 7	Bed 2	0	-	-	-	Standard	No
Tower 1	7	Unit 7	Bed 3	0	-	-	-	Standard	No
Tower 1	7	Unit 7	Kitchen/Living/Dining	0	-	-	-	Standard	No
Tower 1	7	Unit 8	Master Bedroom	0	-	-	-	Standard	No
Tower 1	7	Unit 8	Bed 2	0	-	-	-	Standard	No
Tower 1	7	Unit 8	Bed 3	0	-	-	-	Standard	No
Tower 1	7	Unit 8	Kitchen/Living/Dining	0	-	-	-	Standard	No
Tower 1	7	Unit 9	Master Bedroom	0	-	-	-	Standard	No
Tower 1	7	Unit 9	Bed 2	0	-	-	-	Standard	No
Tower 1	7	Unit 9	Kitchen/Living/Dining	0	-	-	-	Standard	No
Tower 1	8	Unit 1	Master Bedroom	2	41	38	35	10.38mm lam	Yes
Tower 1	8	Unit 1	Bed 2	1	35	35	27	4mm float	Yes
Tower 1	8	Unit 1	Bed 3	1	35	35	27	4mm float	Yes
Tower 1	8	Unit 1	Kitchen/Living/Dining	1	35	35	27	4mm float	Yes
Tower 1	8	Unit 2	Master Bedroom	2	41	38	35	10.38mm lam	Yes
Tower 1	8	Unit 2	Bed 2	0	-	-	-	Standard	No
Tower 1	8	Unit 2	Kitchen/Living/Dining	2	41	38	35	10.38mm lam	Yes
Tower 1	8	Unit 3	Master Bedroom	2	41	38	35	10.38mm lam	Yes
Tower 1	8	Unit 3	Bed 2	0	-	-	-	Standard	No
Tower 1	8	Unit 3	Kitchen/Living/Dining	1	35	35	27	4mm float	Yes
Tower 1	8	Unit 4	Master Bedroom	2	41	38	35	10.38mm lam	Yes
Tower 1	8	Unit 4	Bed 2	2	41	38	35	10.38mm lam	Yes
Tower 1	8	Unit 4	Kitchen/Living/Dining	2	41	38	35	10.38mm lam	Yes
Tower 1	8	Unit 5	Bed 1	1	35	35	27	4mm float	Yes
Tower 1	8	Unit 5	Kitchen/Living/Dining	0	-	-	-	Standard	No
Tower 1	8	Unit 6	Master Bedroom	0	-	-	-	Standard	No
Tower 1	8	Unit 6	Bed 2	0	-	-	-	Standard	No
Tower 1	8	Unit 6	Bed 3	1	35	35	27	4mm float	Yes
Tower 1	8	Unit 6	Bed 4	1	35	35	27	4mm float	Yes
Tower 1	8	Unit 6	Kitchen/Living/Dining	1	35	35	27	4mm float	Yes

Tower	Level	Unit	Location	QDC Cat	Rw Ratings			Glazing Recommendations	Acoustic Seals
					Wall	Roof	Glazing		
Tower 1	8	Unit 6	Kitchen/Living/Dining	0	-	-	-	Standard	No
Tower 1	8	Unit 7	Master Bedroom	0	-	-	-	Standard	No
Tower 1	8	Unit 7	Bed 2	0	-	-	-	Standard	No
Tower 1	8	Unit 7	Bed 3	0	-	-	-	Standard	No
Tower 1	8	Unit 7	Kitchen/Living/Dining	0	-	-	-	Standard	No
Tower 1	8	Unit 8	Master Bedroom	0	-	-	-	Standard	No
Tower 1	8	Unit 8	Bed 2	0	-	-	-	Standard	No
Tower 1	8	Unit 8	Bed 3	0	-	-	-	Standard	No
Tower 1	8	Unit 8	Kitchen/Living/Dining	0	-	-	-	Standard	No
Tower 1	8	Unit 9	Master Bedroom	0	-	-	-	Standard	No
Tower 1	8	Unit 9	Bed 2	0	-	-	-	Standard	No
Tower 1	8	Unit 9	Kitchen/Living/Dining	0	-	-	-	Standard	No

Any locations not identified in the table would require 4mm float for windows (minimum R_w 22) and 4mm toughened for sliding doors (minimum R_w 22).

8.1.2 Wall Construction

The wall construction recommendations from QDC MP4.4 are included in the table below. Note that these are not the only allowable methods of construction for the development, and alternative constructions to achieve the required Rw ratings may also be provided.

Table 19: QDC typical wall construction

QDC Noise Category	Wall Rw	QDC Acceptable forms of construction
4	52	Two leaves of clay brick masonry, at least 270mm in total, with subfloor vents fitted with noise attenuators.
3	47	Two leaves of clay brick masonry at least 110mm thick with: (i) cavity not less than 50mm between leaves; and (ii) 50mm thick mineral insulation or 50mm thick glass wool insulation with a density of 11kg/m ³ or 50mm thick polyester insulation with a density of 20kg/m ³ in the cavity. OR Two leaves of clay brick masonry at least 110mm thick with: (i) cavity not less than 50mm between leaves; and (ii) at least 13mm thick cement render on each face. OR Single leaf of clay brick masonry at least 110mm thick with: (i) a row of at least 70mm x 35mm timber studs or 64mm steel studs at 600mm centres, spaced at least 20mm from the masonry wall; and (ii) mineral insulation or glass wool insulation at least 50mm thick with a density of at least 11kg/m ³ positioned between studs; and (iii) One layer of plasterboard at least 13mm thick fixed to outside face of studs. OR Single leaf of minimum 150mm thick masonry of hollow, dense concrete blocks, with mortar joints laid to prevent moisture bridging. OR 1 layer of 9mm FC, 90mm timber stud with 75mm glasswool batts (density 11kg/m ³) and 2 layers of 13mm fire rated plasterboard.
2	41	Two leaves of clay brick masonry at least 110mm thick with cavity not less than 50mm between leaves OR Single leaf of clay brick masonry at least 110mm thick with: (i) a row of at least 70mm x 35mm timber studs or 64mm steel studs at 600mm centres, spaced at least 20mm from the masonry wall; and (ii) mineral insulation or glass wool insulation at least 50mm thick with a density of at least 11kg/m ³ positioned between studs; and (iii) One layer of plasterboard at least 10mm thick fixed to outside face of studs OR Single leaf of brick masonry at least 110mm thick with at least 13mm thick render on each face OR Concrete brickwork at least 110mm thick OR In-situ concrete at least 100mm thick OR Precast concrete at least 100mm thick and without joints. OR 1 layer of 9mm FC, 90mm timber stud with 75mm glasswool batts (density 11kg/m ³) and 1 layer of 13mm plasterboard internally.
1	35	Single leaf of clay brick masonry at least 110mm thick with: (i) a row of at least 70mm x 35mm timber studs or 64mm steel studs at 600mm centres, spaced at least 20mm from the masonry wall; and (ii) One layer of plasterboard at least 10mm thick fixed to outside face of studs OR Minimum 6mm thick fibre cement sheeting or weatherboards or plank cladding externally, minimum 90mm deep timber stud or 92mm metal stud, standard plasterboard at least 13mm thick internally.

QDC Noise Category	Wall Rw	QDC Acceptable forms of construction
0	N/A	Standard Construction

8.1.3 Roof/ceiling Construction

The roof/ceiling construction recommendations from QDC MP4.4 are included in the table below. Note that these are not the only allowable methods of construction for the development, and alternative constructions to achieve the required Rw ratings may also be provided.

Table 20: QDC typical roof construction

QDC Noise Category	Roof Rw	QDC Acceptable forms of construction
4	45	Concrete or terracotta tile or sheet metal roof with sarking, acoustically rated plasterboard ceiling at least 13mm thick fixed to ceiling joists, cellulose fibre insulation at least 100mm thick with a density of at least 45kg/m ³ in the cavity. OR Concrete or terracotta tile or sheet metal roof with sarking, 2 layers of acoustically rated plasterboard at least 16mm thick fixed to ceiling joists, glass wool insulation at least 50mm thick with a density of at least 11kg/m ³ or polyester insulation at least 50mm thick with a density of at least 20kg/m ³ in the cavity.
3	41	Concrete or terracotta tile or metal sheet roof with sarking, plasterboard ceiling at least 10mm thick fixed to ceiling joists, glass wool insulation at least 50mm thick with a density of at least 11kg/m ³ or polyester insulation at least 50mm thick with a density of at least 20kg/m ³ in the cavity. OR Concrete suspended slab at least 100mm thick.
2	38	Concrete or terracotta tile or metal sheet roof with sarking, plasterboard ceiling at least 10mm thick fixed to ceiling cavity, mineral insulation or glass wool insulation at least 50mm thick with a density of at least 11 kg/m ³ .
1	35	Concrete or terracotta tile or metal sheet roof with sarking, plasterboard ceiling at least 10mm thick fixed to ceiling cavity.
0	n/a	Standard Construction

8.1.4 Solid Balustrades

In accordance with PO42, an assessment on balconies has been conducted. Any potential requirements for solid balustrades are recommended below;

Table 21: Solid balustrade locations – Tower 3

Tower	Level	Unit	Area	Solid Balustrade
Tower 3	1	Unit 1	Balcony	Yes
Tower 3	1	Unit 2	Balcony	Yes
Tower 3	1	Unit 3	Balcony	Yes
Tower 3	2	Unit 1	Balcony	Yes
Tower 3	2	Unit 2	Balcony	Yes
Tower 3	2	Unit 3	Balcony	Yes
Tower 3	2	Unit 4	Balcony	No
Tower 3	2	Unit 5	Balcony	No
Tower 3	2	Unit 6	Balcony	No
Tower 3	2	Unit 7	Balcony	No
Tower 3	3	Unit 1	Balcony	Yes
Tower 3	3	Unit 2	Balcony	Yes
Tower 3	3	Unit 3	Balcony	Yes
Tower 3	3	Unit 4	Balcony	No
Tower 3	3	Unit 5	Balcony	No
Tower 3	3	Unit 6	Balcony	No
Tower 3	3	Unit 7	Balcony	No
Tower 3	4	Unit 1	Balcony	Yes
Tower 3	4	Unit 2	Balcony	Yes
Tower 3	4	Unit 3	Balcony	Yes
Tower 3	4	Unit 4	Balcony	No
Tower 3	4	Unit 5	Balcony	No
Tower 3	4	Unit 6	Balcony	No
Tower 3	4	Unit 7	Balcony	No
Tower 3	5	Unit 1	Balcony	Yes
Tower 3	5	Unit 2	Balcony	Yes
Tower 3	5	Unit 3	Balcony	Yes
Tower 3	5	Unit 4	Balcony	No
Tower 3	5	Unit 5	Balcony	No
Tower 3	5	Unit 6	Balcony	No
Tower 3	5	Unit 7	Balcony	No
Tower 3	6	Unit 1	Balcony	Yes
Tower 3	6	Unit 2	Balcony	Yes
Tower 3	6	Unit 3	Balcony	Yes
Tower 3	6	Unit 4	Balcony	No
Tower 3	6	Unit 5	Balcony	No
Tower 3	6	Unit 6	Balcony	No
Tower 3	6	Unit 7	Balcony	Yes
Tower 3	7	Unit 1	Balcony	Yes
Tower 3	7	Unit 2	Balcony	Yes
Tower 3	7	Unit 3	Balcony	Yes
Tower 3	7	Unit 4	Balcony	No
Tower 3	7	Unit 5	Balcony	No
Tower 3	7	Unit 6	Balcony	No
Tower 3	7	Unit 7	Balcony	Yes
Tower 3	8	Unit 1	Balcony	Yes
Tower 3	8	Unit 2	Balcony	Yes
Tower 3	8	Unit 3	Balcony	Yes
Tower 3	8	Unit 4	Balcony	No
Tower 3	8	Unit 5	Balcony	No
Tower 3	8	Unit 6	Balcony	No

Tower	Level	Unit	Area	Solid Balustrade
Tower 3	8	Unit 7	Balcony	Yes

Table 22: Solid balustrade locations – Tower 2

Tower	Level	Unit	Area	Solid Balustrade
Tower 2	1	Unit 1	Balcony	Yes
Tower 2	1	Unit 2	Balcony	Yes
Tower 2	1	Unit 3	Balcony	Yes
Tower 2	2	Unit 1	Balcony	Yes
Tower 2	2	Unit 2	Balcony	Yes
Tower 2	2	Unit 3	Balcony	Yes
Tower 2	2	Unit 4	Balcony	Yes
Tower 2	2	Unit 5	Balcony	No
Tower 2	2	Unit 6	Balcony	No
Tower 2	2	Unit 7	Balcony	No
Tower 2	2	Unit 8	Balcony	Yes
Tower 2	3	Unit 1	Balcony	Yes
Tower 2	3	Unit 2	Balcony	Yes
Tower 2	3	Unit 3	Balcony	Yes
Tower 2	3	Unit 4	Balcony	No
Tower 2	3	Unit 5	Balcony	No
Tower 2	3	Unit 6	Balcony	No
Tower 2	3	Unit 7	Balcony	No
Tower 2	3	Unit 8	Balcony	No
Tower 2	4	Unit 1	Balcony	Yes
Tower 2	4	Unit 2	Balcony	Yes
Tower 2	4	Unit 3	Balcony	Yes
Tower 2	4	Unit 4	Balcony	Yes
Tower 2	4	Unit 5	Balcony	No
Tower 2	4	Unit 6	Balcony	No
Tower 2	4	Unit 7	Balcony	No
Tower 2	4	Unit 8	Balcony	No
Tower 2	5	Unit 1	Balcony	Yes
Tower 2	5	Unit 2	Balcony	Yes
Tower 2	5	Unit 3	Balcony	Yes
Tower 2	5	Unit 4	Balcony	Yes
Tower 2	5	Unit 5	Balcony	No
Tower 2	5	Unit 6	Balcony	No
Tower 2	5	Unit 7	Balcony	No
Tower 2	5	Unit 8	Balcony	No
Tower 2	6	Unit 1	Balcony	Yes
Tower 2	6	Unit 2	Balcony	Yes
Tower 2	6	Unit 3	Balcony	Yes
Tower 2	6	Unit 4	Balcony	Yes
Tower 2	6	Unit 5	Balcony	No
Tower 2	6	Unit 6	Balcony	No
Tower 2	6	Unit 7	Balcony	No
Tower 2	6	Unit 8	Balcony	No
Tower 2	7	Unit 1	Balcony	Yes
Tower 2	7	Unit 2	Balcony	Yes
Tower 2	7	Unit 3	Balcony	Yes
Tower 2	7	Unit 4	Balcony	Yes
Tower 2	7	Unit 5	Balcony	No
Tower 2	7	Unit 6	Balcony	No
Tower 2	7	Unit 7	Balcony	No
Tower 2	7	Unit 8	Balcony	No
Tower 2	8	Unit 1	Balcony	Yes

Tower	Level	Unit	Area	Solid Balustrade
Tower 2	8	Unit 2	Balcony	Yes
Tower 2	8	Unit 3	Balcony	Yes
Tower 2	8	Unit 4	Balcony	Yes
Tower 2	8	Unit 5	Balcony	No
Tower 2	8	Unit 6	Balcony	No
Tower 2	8	Unit 7	Balcony	No
Tower 2	8	Unit 8	Balcony	No

Table 23: Solid balustrade locations – Tower 1

Tower	Level	Unit	Area	Solid Balustrade
Tower 1	1	Unit 5	Balcony	No
Tower 1	1	Unit 2	Balcony	No
Tower 1	2	Unit 1	Balcony	No
Tower 1	2	Unit 2	Balcony	No
Tower 1	2	Unit 3	Balcony	No
Tower 1	2	Unit 4	Balcony	Yes
Tower 1	2	Unit 5	Balcony	No
Tower 1	2	Unit 6	Balcony	No
Tower 1	2	Unit 7	Balcony	No
Tower 1	2	Unit 8	Balcony	No
Tower 1	2	Unit 9	Balcony	No
Tower 1	3	Unit 1	Balcony	No
Tower 1	3	Unit 2	Balcony	No
Tower 1	3	Unit 3	Balcony	No
Tower 1	3	Unit 4	Balcony	Yes
Tower 1	3	Unit 5	Balcony	No
Tower 1	3	Unit 6	Balcony	No
Tower 1	3	Unit 7	Balcony	No
Tower 1	3	Unit 8	Balcony	No
Tower 1	3	Unit 8	Balcony	No
Tower 1	3	Unit 9	Balcony	No
Tower 1	4	Unit 1	Balcony	No
Tower 1	4	Unit 2	Balcony	No
Tower 1	4	Unit 3	Balcony	Yes
Tower 1	4	Unit 4	Balcony	Yes
Tower 1	4	Unit 5	Balcony	No
Tower 1	4	Unit 6	Balcony	No
Tower 1	4	Unit 7	Balcony	No
Tower 1	4	Unit 8	Balcony	No
Tower 1	4	Unit 8	Balcony	No
Tower 1	4	Unit 9	Balcony	No
Tower 1	5	Unit 1	Balcony	Yes
Tower 1	5	Unit 2	Balcony	Yes
Tower 1	5	Unit 3	Balcony	Yes
Tower 1	5	Unit 4	Balcony	Yes
Tower 1	5	Unit 5	Balcony	No
Tower 1	5	Unit 6	Balcony	No
Tower 1	5	Unit 7	Balcony	No
Tower 1	5	Unit 8	Balcony	No
Tower 1	5	Unit 8	Balcony	No
Tower 1	5	Unit 9	Balcony	No
Tower 1	6	Unit 1	Balcony	Yes
Tower 1	6	Unit 2	Balcony	Yes
Tower 1	6	Unit 3	Balcony	Yes
Tower 1	6	Unit 4	Balcony	Yes
Tower 1	6	Unit 5	Balcony	No

Tower	Level	Unit	Area	Solid Balustrade
Tower 1	6	Unit 6	Balcony	No
Tower 1	6	Unit 7	Balcony	No
Tower 1	6	Unit 8	Balcony	No
Tower 1	6	Unit 8	Balcony	No
Tower 1	6	Unit 9	Balcony	No
Tower 1	7	Unit 1	Balcony	Yes
Tower 1	7	Unit 2	Balcony	Yes
Tower 1	7	Unit 3	Balcony	Yes
Tower 1	7	Unit 4	Balcony	Yes
Tower 1	7	Unit 5	Balcony	No
Tower 1	7	Unit 6	Balcony	No
Tower 1	7	Unit 7	Balcony	No
Tower 1	7	Unit 8	Balcony	No
Tower 1	7	Unit 8	Balcony	No
Tower 1	7	Unit 9	Balcony	No
Tower 1	8	Unit 1	Balcony	Yes
Tower 1	8	Unit 2	Balcony	Yes
Tower 1	8	Unit 3	Balcony	Yes
Tower 1	8	Unit 4	Balcony	Yes
Tower 1	8	Unit 5	Balcony	No
Tower 1	8	Unit 6	Balcony	No
Tower 1	8	Unit 7	Balcony	No
Tower 1	8	Unit 8	Balcony	No
Tower 1	8	Unit 8	Balcony	No
Tower 1	8	Unit 9	Balcony	No

9. Conclusion

A road traffic noise assessment was conducted for the proposed residential development to be located at 101-111 Mt Gravatt-Capalaba Road, Upper Mt Gravatt. Based on the predicted noise levels and subjective assessment of the site and surrounds for all time periods, compliance is predicted with SDAP and QDC criteria on the condition the recommendations in Section 8 are implemented.

If you should have any queries, please do not hesitate to contact us.

Yours faithfully,



Marco Scoca
Acoustic Consultant
BEng (Civil Eng. Hons)
GradDipEngSc (Mechanical Eng.)
acousticworks)))

10. Appendices

10.1 Development Plans



PROPOSED MULTI-RESIDENTIAL
DEVELOPMENT
30 MASCAR STREET
UPPER MOUNT GRAVATT 4122

DEVELOPMENT APPLICATION

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LOCAL CONTEXT PLAN

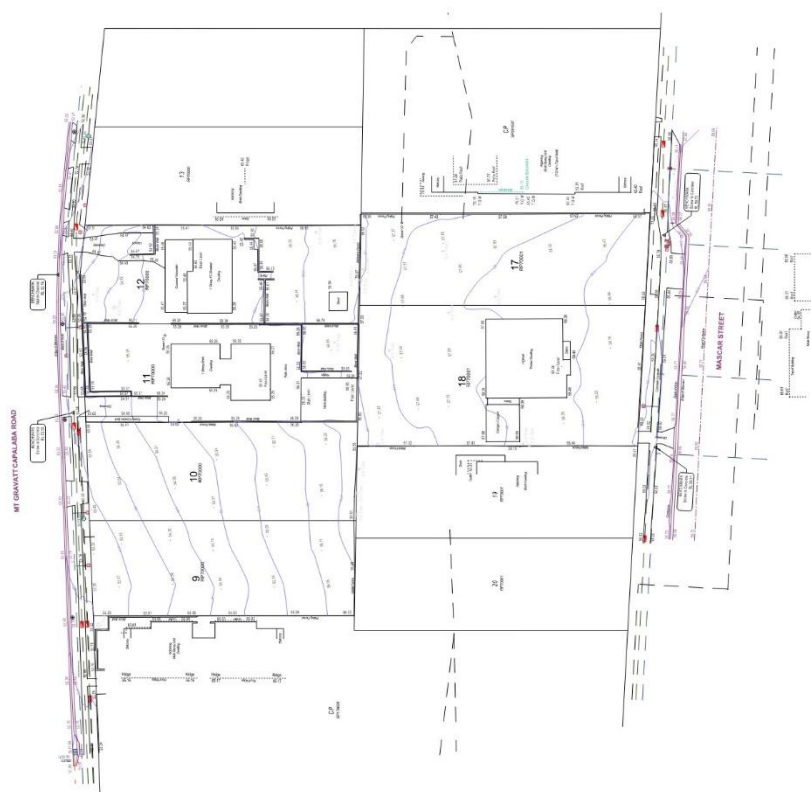
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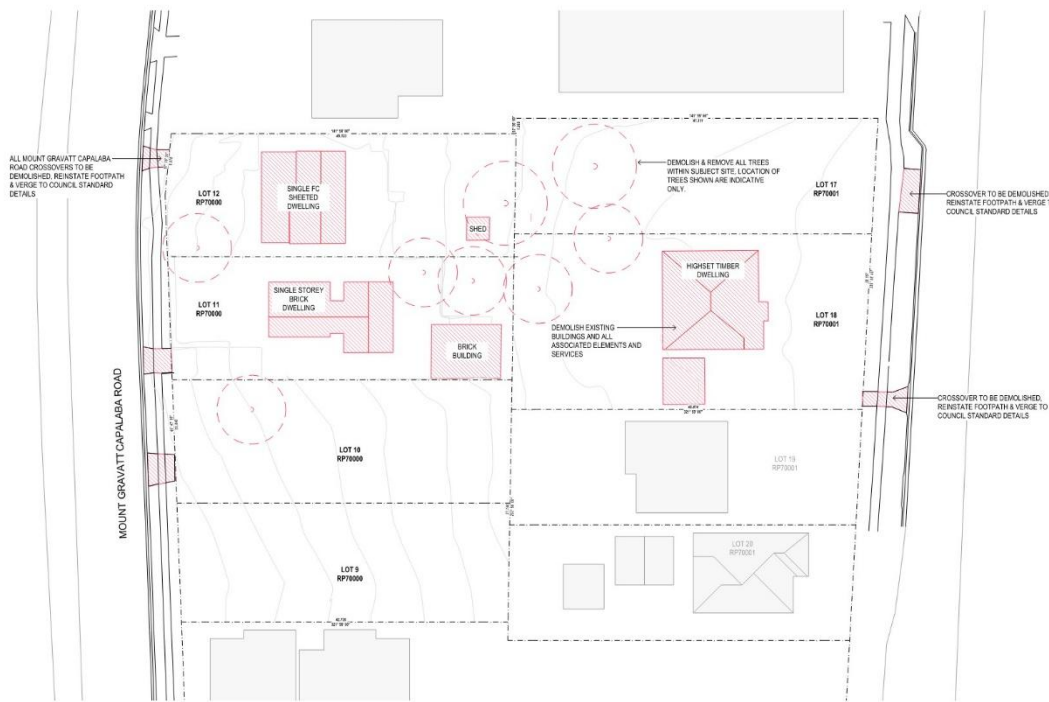
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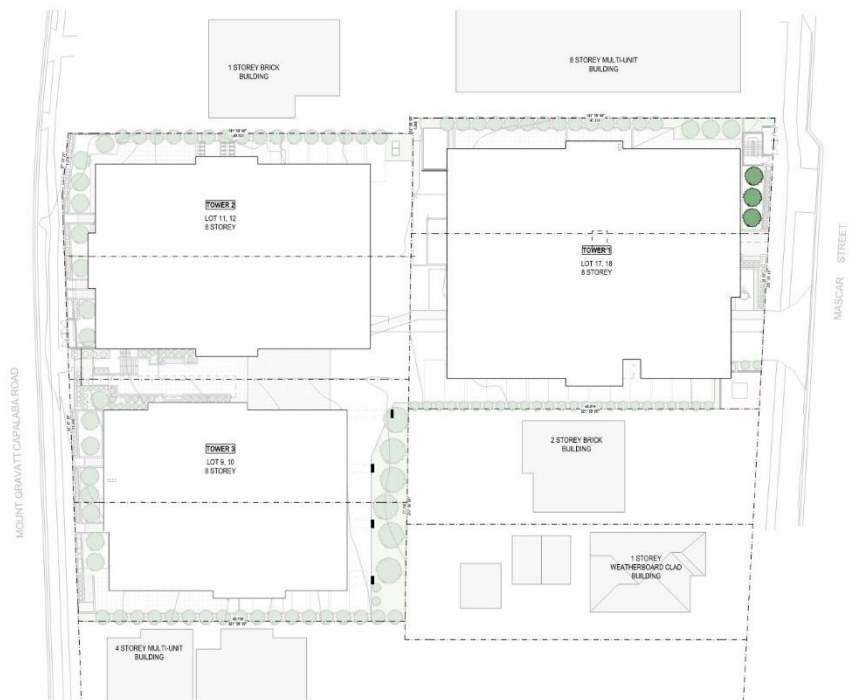
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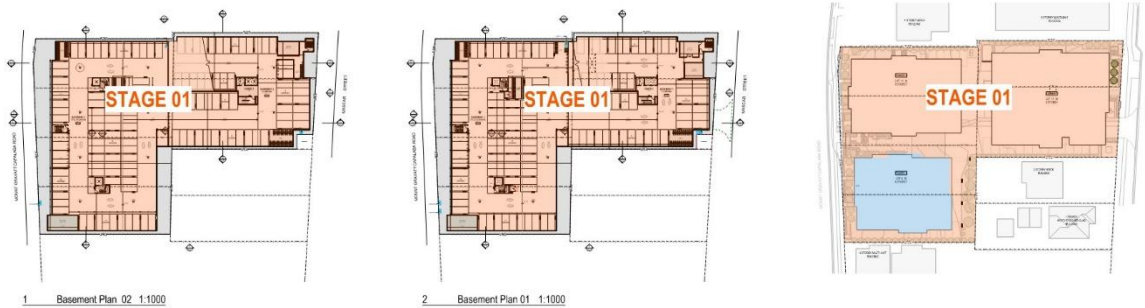


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PROPOSED SITE PLAN
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STAGING PLAN
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DA - 10/06/2026

DEVELOPMENT SUMMARY

site information

RPD Lots 17 & 18 on RP70001 - 30 Mascara St 1771m²
Lot & RP Lot 9 on RP70000 - 101 Mt Gravatt Cap Rd 670m²
Lot 10 on RP70000 - 105 Mt Gravatt Cap Rd 709m²
Lot 11 on RP70000 - 109 Mt Gravatt Cap Rd 721m²
Lot 12 on RP70000 - 111 Mt Gravatt Cap Rd 731m²
4526m²

Total Site Area:
Local Authority: Brisbane City Council
Site Classification: High Density Residential Zone
Apartments Proposed: 8
No of Stores: 175
Units proposed (MUC): 175

Level	Misc.	1 bed	2 bed	3 bed	4 bed	Total
Level 1 - Gnd	-	1	-	1	-	2
Level 2	-	6	1	1	8	
Level 3	-	5	3	1	9	
Level 4	-	5	3	1	9	
Level 5	-	5	3	1	9	
Level 6	-	5	3	1	9	
Level 7	-	5	3	1	9	
Level 8	-	5	3	1	9	
(8 level) Total:	-	31	19	8	58	

Residential carpark required
2 Bedroom (x 1.5) 65.00
3 Bedroom (x 2.25) 38.00
4 Bedroom (x 3.0) 24.00
Visitors (x 0.25) 10.00
TOTAL 137.00

Level	Misc.	1 bed	2 bed	3 bed	Total
Level 1 - Gnd	carpark	3	4	1	8
Level 2	-	2	4	2	8
Level 3	-	2	4	2	8
Level 4	-	2	4	2	8
Level 5	-	2	4	2	8
Level 6	-	2	4	2	8
Level 7	-	2	4	2	8
Level 8	-	2	4	2	8
(8 level) Total:	-	19	31	13	59

Residential carpark provided
1 Bedroom/Studio (x 1.0) 15.00
2 Bedroom (x 1.5) 46.50
3 Bedroom (x 2.25) 36.00
Visitors (x 0.25) 14.75
TOTAL 112.25

Level	Misc.	1 bed	2 bed	3 bed	Total
Level 1 - Gnd	carpark	1	2	3	6
Level 2	-	2	3	2	7
Level 3	-	2	3	2	7
Level 4	-	2	3	2	7
Level 5	-	2	3	2	7
Level 6	-	2	3	2	7
Level 7	-	2	3	2	7
Level 8	-	2	3	2	7
(8 level) Total:	-	14	22	16	52

Residential carpark required
1 Bedroom/Studio (x 1.0) 14.00
2 Bedroom (x 1.5) 33.00
3 Bedroom (x 2.25) 32.00
Visitors (x 0.25) 13.00
TOTAL 92.00

Level	Misc.	1 bed	2 bed	3 bed	4 bed	Total
Tower 1	-	37	19	8	64	
Tower 2	-	31	13	-	59	
Tower 3	-	34	22	18	84	
Total:	-	102	54	26	187	

TOTAL CARPARKS (STAGE 1 & 2)
Residential carpark required
1 Bedroom/Studio (x 1.0) 29.00
2 Bedroom (x 1.5) 135.00
3 Bedroom (x 2.25) 96.00
4 Bedroom (x 3.0) 24.00
Visitors (x 0.25) 43.75
TOTAL 327.75

Residential carpark provided
1 Bedroom/Studio (x 1.0) 29.00
2 Bedroom (x 1.5) 57.00 (57 units x 1 car) 64.00 (32 units x 2 car)
3 Bedroom (x 2.25) 96.00
4 Bedroom (x 3.0) 24.00
Visitors (x 0.25) 14.00
TOTAL 250.00

TOTAL CARS PROVIDED 314.00
Bicycles required
1 space per unit plus - 175
1 visitor per 4 units - 44
TOTAL - 219
L1 Basement 89.00
L2 Basement 87.00
223.00

Site cover: Tower 1 1156.50m²
Tower 2 893.05m²
Tower 3 770.64m²
Total 2819.99m²
2819.99m² = 61.32%

Communal Open Space - 5% min:
Tower 1 Rooftop 614.89m²
Tower 2 Rooftop 429.21m²
Tower 3 Rooftop 345.58m²
Total 1389.68m² = 30.21%

Deep Planting Required 133.65m² + 122.29m² + 47.99m²
(10%): 303.93m² = 6.61%



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Work in Progress	-	01 - WIP

DEVELOPMENT SUMMARY

DEVELOPMENT APPLICATION

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DA-03.06

0246
DA - 10/06/2026

SUMMER SOLSTICE December 21



9:00am



12:00pm



3:00pm

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SUN STUDY - SUMMER SOLSTICE

DEVELOPMENT APPLICATION

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DA-03.07

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DA - 10/06/2026

WINTER SOLSTICE June 21



9:00am

12:00pm

3:00pm

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SUN STUDY - WINTER SOLSTICE
DEVELOPMENT APPLICATION
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BASEMENT 2 CARPARK
DEVELOPMENT APPLICATION
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11/02/2026	FOR CO-ORDINATION	01
03/03/2025	FOR CO-ORDINATION	02
Work in Progress		03 - WIP

**BASEMENT 1 CARPARK
DEVELOPMENT APPLICATION**

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DA-04.02

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**GROUND FLOOR (LEVEL 1)
DEVELOPMENT APPLICATION**

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DA-04.03

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LEVEL 2 FLOOR PLAN
DEVELOPMENT APPLICATION
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TYPICAL LEVELS 3-8
DEVELOPMENT APPLICATION
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11/02/2026	FOR CO-ORDINATION	01
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ROOF TOP COMMUNAL - TWR 1, 2 & 3
DEVELOPMENT APPLICATION

DA-04.06
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11/02/2026	FOR CO-ORDINATION	01
03/03/2025	FOR CO-ORDINATION	02
Work in Progress		03 - WIP

NORTH & SOUTH WEST ELEVATION
DEVELOPMENT APPLICATION

DA-05.01
scale 1:400 @ A3 0246
DA - 10/06/2026

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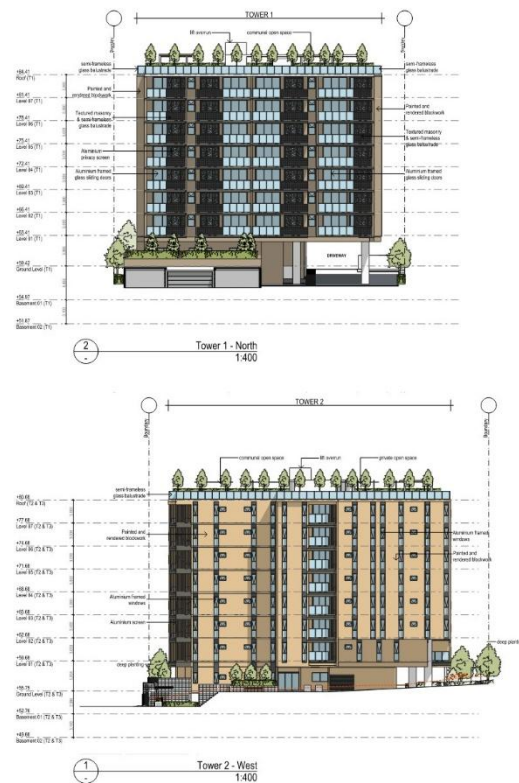
Date	Transmitted Set Name	Rev	NORTH EAST ELEVATION
11/02/2020	FOR CO-ORDINATION	01	DEVELOPMENT APPLICATION
05/03/2020	FOR CO-ORDINATION	02	
Work in Progress		03 - WIP	

NORTH EAST ELEVATION

DEVELOPMENT APPLICATION

DA-05.02

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Date	Transmitted Set Name	Rev	TOWER 1 (N), TOWER 2 (W)
Work in Progress		01 - WIP	DEVELOPMENT APPLICATION

TOWER 1 (N), TOWER 2 (W)

DEVELOPMENT APPLICATION

DA-05.03

scale 1:400 @ A3 0246
DA - 10/06/2020

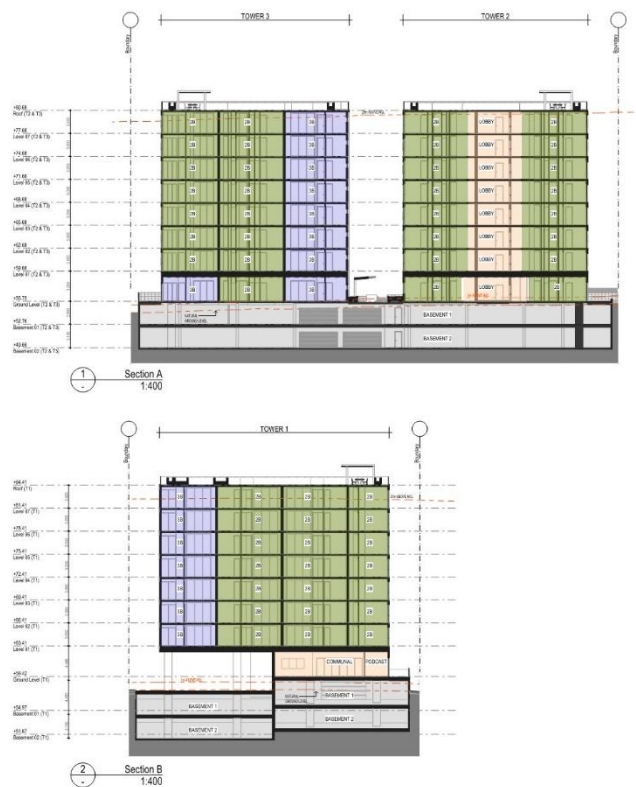


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Date	Transmitted Set Name	Rev	TOWER 2/3 (S), TOWER 3 (W)
Work in Progress		01 - WIP	DEVELOPMENT APPLICATION
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0246
10/06/2026

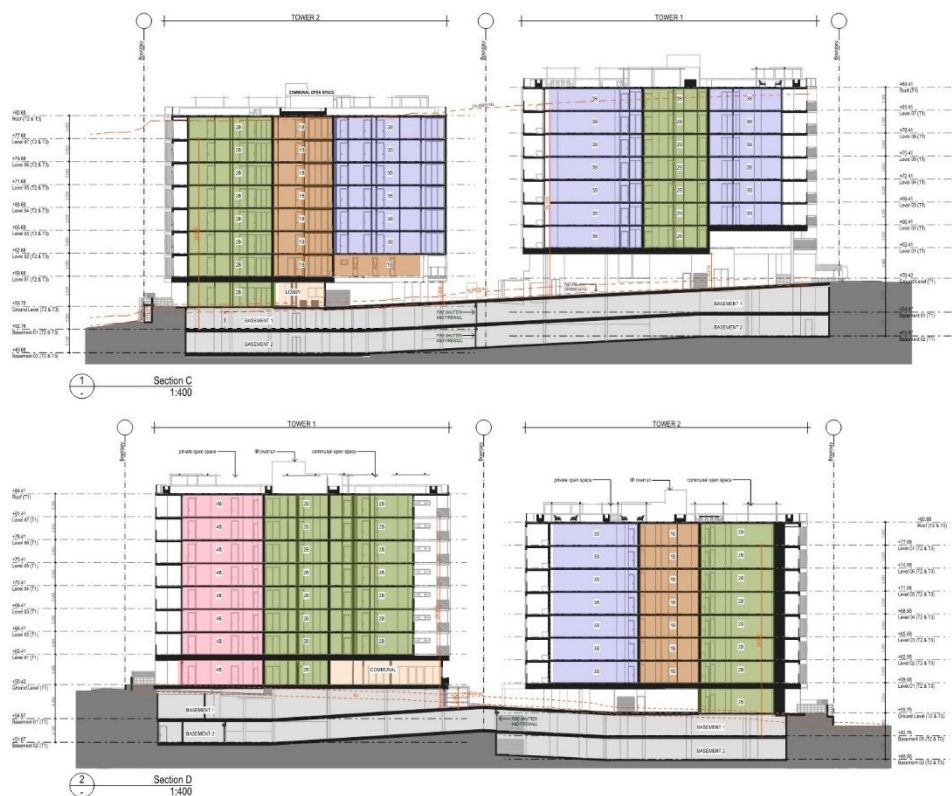


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Date	Transmitted Set Name	Rev	SECTION A & B
11/02/2026	FOR CO-ORDINATION	01	DEVELOPMENT APPLICATION
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SECTION C & D
DEVELOPMENT APPLICATION

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10.2 Noise Monitoring Charts

