

Pentangle Design Group

**3-4 Portmill Lane
Hitchin**

Residential Conversion

**Noise Impact Assessment
Report**

November 2025

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1. INTRODUCTION

At the request of Pentangle Design Group, a noise impact assessment has been carried out for the conversion of 3-4 Portmill Lane, Hitchin from commercial to residential use. The assessment has been undertaken according to Planning Policy Guidance, 'ProPG Planning and Noise 2017', using the noise guidelines specified in BS8233:2014 *'Guidance on sound insulation and noise reduction for buildings'*.

A survey of day and night time ambient noise levels has been undertaken at the front and rear facades of the building and acoustic mitigation measures recommended to meet the required guidelines.

The measurements and assessment have been carried out by John Hyde, a Chartered Physicist and Corporate Member of the Institute of Acoustics who has over 35 years' experience as a noise and acoustics consultant.

2. TERMINOLOGY

It has become practice to measure sound levels in decibels (dB). The decibel scale is logarithmic rather than linear. It is helpful to remember that a noise level change of 3dB on a sound meter reading would be just perceptible, and that an increase of 10 dB is perceived, subjectively, as a doubling of loudness. The human ear responds differently to sounds of different frequencies. The ear "hears" high frequency sound of a given level more loudly than low frequency sound of the same level. The A-weighted sound level, dB(A), takes this response into consideration and is commonly used for measurement of environmental noise in UK. It indicates the subjective human response to sound.

Environmental noise levels vary continuously from second to second. It is clearly impractical to specify the sound level for each second thus time averaging is required. In practice human response has been related to various units which include allowance for the fluctuating nature of sound with time. For the purpose of this report these include:

$L_{Aeq,T}$: the equivalent A-weighted continuous sound level over period T. This unit relates to the equivalent level of continuous sound for a specific time period T, for example 16 hr for daytime noise. It contains all the sound energy of the varying sound levels over the same time period, and expresses it as a continuous sound level over that period. The unit is used for assessing traffic, transportation and industrial noise for planning purposes.

$L_{A90,T}$: the A-weighted level of sound exceeded for 90% of the time period T. This latter unit is commonly used to represent the background noise, and is used in assessing the effects of industrial noise in UK.

L_{Amax} : the maximum A-weighted sound level over a period of measurement.

3 NOISE GUIDELINES

The residential requirements of BS8233 are summarised as follows:

<i>Criterion</i>	<i>Situation</i>	<i>L_{Aeq,T}</i>
Reasonable resting or sleeping conditions	Living Rooms	35dB Day (16hrs)
	Bedrooms	30dB Night (8hrs)

In addition to the internal average noise level criteria, BS8233 recommends that a limit should be placed on maximum internal noise levels at night due to individual external events, such as a passing vehicle, although a specific guideline is not proposed. However, WHO Noise Guidelines recommend that internal maximum noise levels due to individual events at night, should not regularly exceed 45dB(A) on no more than 10 occasions. It is also recommended that ambient noise in external amenity spaces should not exceed a free-field $L_{Aeq,16hr}$ 55dB.

4 NOISE MEASUREMENTS

External noise measurements were carried out from 21st to 27th October 2025 at first floor windows on the front and rear facades of the existing building at positions indicated in Figure 1. Microphones were protected by an outdoor weatherproof system. the weather conditions were mostly within the parameters recommended in BS7445-1:1991 'Description and measurement of environmental noise', apart from a period of persistent heavy rain showers and high wind speed between 02:50 on 23rd October and 03:50 on 24th October. The weather data was obtained from 'Timeanddate.com'. This meant that there was no daytime data on 23rd October.

The noise measurements were carried out using the following equipment:

Type	Component	Serial Number	Calibration Certificate	Calibration Due
SVAN 977	Meter	36438	1507274-1	30/11/2025
SV12L	Preamplifier	42471	1507274-1	30/11/2025
ACO 7052E	Microphone	56754	1507274-1	30/11/2025
NOR 1251	Calibrator	29151	2025-0453	16/05/2026
SVAN 955	Meter	27330	2025-0454	16/05/2027
SC12L	Preamplifier	25705	2025-0456	16/05/2027
ACO 7052E	Microphone	49605	2025-0455	16/05/2027

The above equipment fulfils IEC 61672 Class 1 and is traceable to calibration under BS7580: Part 1:1997. The meters were calibrated before and after the measurement

and no significant drifting of the calibration signal was observed.

Figure 1: Noise measurement positions



Measurements were undertaken for a 6-day period. Levels at both positions were measured at 15-minute intervals, as shown in detail in Appendix 1. The following parameters were recorded:

- L_{Aeq} The equivalent continuous noise level over 15-minute periods
 - L_{Amax} The maximum noise level during each period
 - L_{A90} The level exceeded for 90% of the time, the background level
- Octave band frequency levels were measured for the façade sound insulation calculations.

Based on limited observation, the dominant noise source at the front of the building was from significant pedestrian movement between the Portmill Road car parks and the High Street and vehicles using the car parks. Night time noise levels were highest on 24th October, a Friday, which is typical of town centre activity. The area to the rear of the building is a private car park surrounded by the rear facades of commercial buildings with no clearly perceptible noise sources. The results indicated lower noise levels at the rear of the building as shown in Tables 1 and 2.

Table 1: Summary of measured noise levels at the front of the building

Date	Time	LAeq,T	LAmix*	LAmix^
		[dB]	[dB]	[dB]
21/10/2025	10:43 - 23:00	56.7		
21/10/2025	23:00 - 07:00	50.0	70.0	70
22/10/2025	07:00 - 23:00	61.5		
22/10/2025	23:00 - 07:00	47.2	76.0	76
23/10/2025	07:00 - 23:00	^		
23/10/2025	23:00 - 07:00	49.3	76.0	76
24/10/2025	07:00 - 23:00	58.2		
24/10/2025	23:00 - 07:00	54.8	77.0	77
25/10/2025	07:00 - 23:00	57.8		
25/10/2025	23:00 - 07:00	50.3	72.0	72
26/10/2025	07:00 - 23:00	57.3		
26/10/2025	23:00 - 07:00	49.3	71.0	71
27/10/2025	07:00 - 09:13	57.1		

* Level exceeded on no more than 5 occasions

^ No data due to high windspeed and rain

Data for the worst affected day are summarised below:

Front	Daytime	L _{Aeq,16hr} 58dB
	Night time	L _{Aeq,8hr} 55dB
	Night time	L _{Amax} 77dB

The highest value of L_{Aeq,16hr} 62dB on 22nd October was due to nearby road works between 09:30 and 12:30 and not regarded as typical, this can be seen on the time history chart in Appendix 2.

Table 2: Summary of measured noise levels at the rear of the building

Date	Time	LAeq,T	LAmaz*
		[dB]	[dB]
21/10/2025	10:39 - 23:00	50.1	
21/10/2025	23:00 - 07:00	43.6	65
22/10/2025	07:00 - 23:00	51.1	
22/10/2025	23:00 - 07:00	43.9	69
23/10/2025	07:00 - 23:00	^	
23/10/2025	23:00 - 07:00	42.6	62
24/10/2025	07:00 - 23:00	52.0	
24/10/2025	23:00 - 07:00	47.4	62
25/10/2025	07:00 - 23:00	54.2	
25/10/2025	23:00 - 07:00	43.8	62
26/10/2025	07:00 - 23:00	51.0	
26/10/2025	23:00 - 07:00	42.7	62
27/10/2025	07:00 - 14:33	52.4	

* Level exceeded on no more than 5 occasions

^ No data due to high windspeed and rain

Data for the worst affected day are summarised below:

Rear	Daytime	L _{Aeq,16hr} 54dB
	Night time	L _{Aeq,8hr} 47dB
	Night time	L _{Amax} 69dB

5 ASSESSMENT

Façade Sound Insulation

The measured facade noise levels have been used to determine internal noise levels by selecting appropriate glazing and ventilation mitigation measures, using the BS8233:2014 Annex G2 methodology for the calculation of the sound insulation of the building envelope. The spectrum of external noise was taken from the periods of highest measured data at both positions.

The G2 method takes account of the room dimensions, acoustic absorption, the façade area, the masonry walls, roof construction, ventilation strategy and the window area. This means that a particular form of glazing will result in varying internal noise levels depending on the room characteristics. A room façade with a high percentage area of glazing will have a lower sound insulation than a room façade with a lower percentage

area of the same glazing. This applies to the difference between the areas of the living room and bedroom windows of Flats 1/3.

Room façade and glazing dimensions have been taken from the floor layouts of the Flats, as shown in Figures 2-4.

Figure 2: Ground floor layout

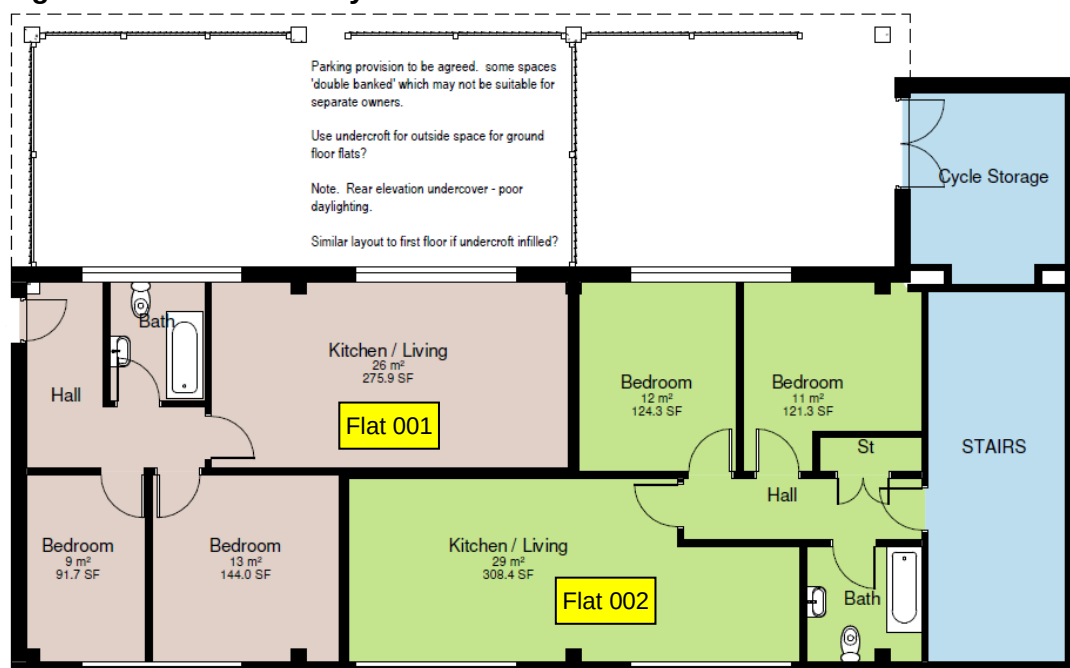


Figure 3: First floor layout

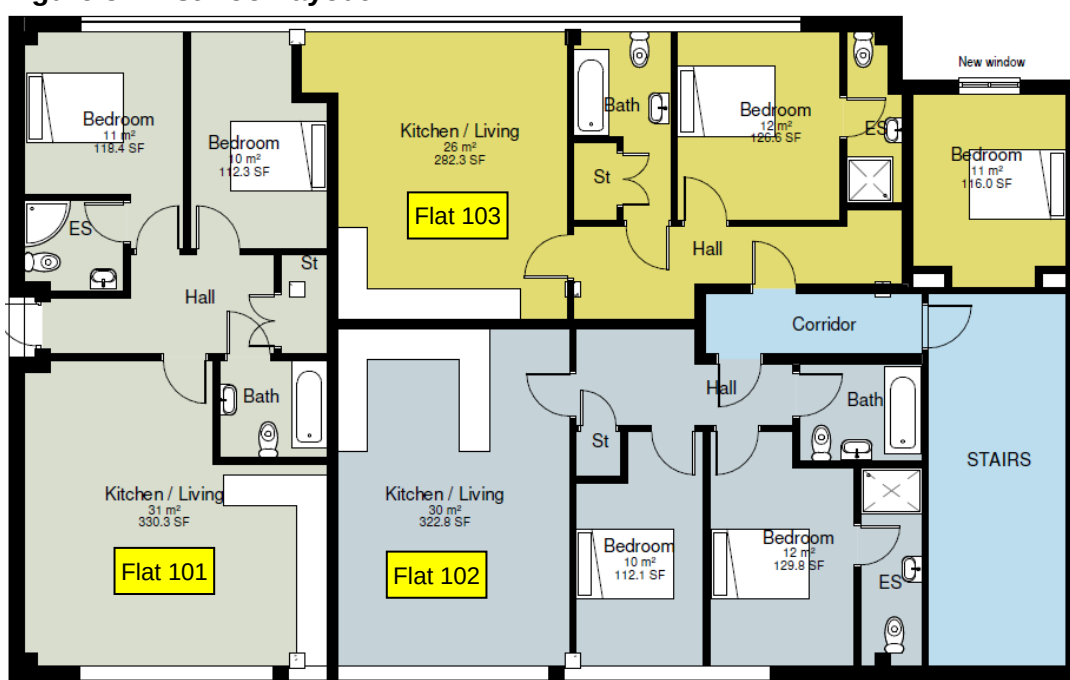
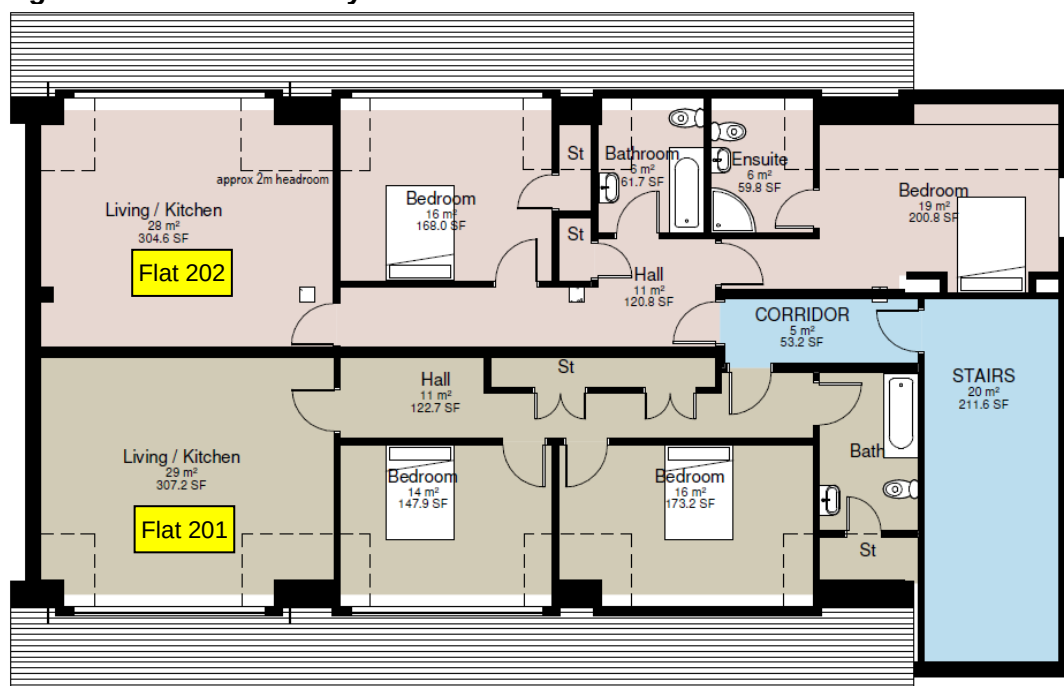


Figure 4: Second floor layout

The calculations are shown in Appendix 2. Each table shows the glazing and ventilation assumptions for each room to meet the required guidelines and the resulting internal noise level is shown at the foot of the table.

On the rear façade of the building, noise levels were comparatively low, apart from on the Tuesday night when the L_{Amax} value of 69dB was 7dB higher than on most other nights. This was taken into account in the assessment which showed that the required guidelines could be met with standard double glazing, R_w+C_{tr} 25dB, and standard trickle vents for all living room and bedroom windows. This would apply to retention of the existing glazing or installation of new units.

On the front façade of the building, noise levels were higher due to significant pedestrian movement along the passageway between the Portmill Road carparks and the High Street. This was particularly noticeable on the night of Friday 24th October when the $L_{Aeq,8hr}$ was 5dB higher than on other nights. The highest L_{Amax} values were also recorded. This was taken into account in the assessment.

The calculations showed that the required guidelines could be met with standard double glazing, R_w+C_{tr} 25dB, and standard trickle vents for all living rooms. However, bedrooms would require acoustic glazing, R_w+C_{tr} 34dB, with acoustic ventilators due to high L_{Amax} values at night.

The mitigation requirements are summarised in Table 3

Table 3: Summary of acoustic mitigation requirements

Flat	Living Room	Bedrooms
001	A	B
002	A	A
101	A	A
102	A	B
103	A	A
201	A	B
202	A	A

A - Existing or standard glazing R_w+C_{tr} 25dB, eg (4-16-4) with standard trickle vents.
B - Acoustic glazing, R_w+C_{tr} 34dB, eg (6-16-6.8) Optiphon, with acoustic ventilator, D_{new} 39dB, eg Greenwood AWW39

The above measures assume that ventilation would be according to Part F System 1, 2 or 3 but if System 4, MVHR, is implemented, the ventilators would not be needed.

6 SUMMARY

A noise survey has been carried out at the site of the development at 3-4 Portmill Lane, Hitchin to establish the external noise levels on the building façades.

The survey results and sound insulation calculations showed that the guidance on internal noise levels, as recommended in BS8233:2014 and WHO Noise Guidelines can be achieved through appropriate glazing and ventilation measures.

For living room windows on both façades of the building, a minimum glazing specification of R_w+C_{tr} 25dB would be required with standard trickle vents. The same specification would be required for bedrooms on the rear façade. However, for bedrooms on the front facade, acoustic glazing would be needed with a specification of R_w+C_{tr} 34dB with acoustic ventilators meeting D_{new} 39dB

If mechanical ventilation with heat recovery is proposed, the ventilators would not be required.

This report will be updated when the locations of the proposed heat pumps are known.

APPENDIX 1 - Results of Ambient Noise Measurements

Data marked in **yellow** omitted from calculations due to high windspeed and heavy rain

Front Façade

Date & time	LAFmax [dB]	LAeq [dB]	LA90 [dB]
21/10/2025 13:13	73.5	55.9	50.9
21/10/2025 13:28	73.8	55.6	50.4
21/10/2025 13:43	76.1	56.1	51.6
21/10/2025 13:58	72.5	55.7	51.8
21/10/2025 14:13	73.5	56	52.2
21/10/2025 14:28	80	58.7	51.6
21/10/2025 14:43	81.7	59.7	52.9
21/10/2025 14:58	73.3	56.4	52.5
21/10/2025 15:13	86	60.2	52.2
21/10/2025 15:28	87.4	58.7	51.4
21/10/2025 15:43	73.2	56.5	52.5
21/10/2025 15:58	84	59.6	54.2
21/10/2025 16:13	78.5	57.9	52.4
21/10/2025 16:28	69.5	56.8	52.1
21/10/2025 16:43	76.9	57.8	52.6
21/10/2025 16:58	69.9	57.2	53
21/10/2025 17:13	70.9	55.9	50.9
21/10/2025 17:28	75.6	55.9	52
21/10/2025 17:43	78.7	58.3	52.7
21/10/2025 17:58	77.6	57.9	53
21/10/2025 18:13	80.5	57.2	52.9
21/10/2025 18:28	69.6	56.5	52.6
21/10/2025 18:43	75.5	56.5	52.3
21/10/2025 18:58	77	56.6	51.3
21/10/2025 19:13	71.6	56.4	51.1
21/10/2025 19:28	84.5	58.4	49.8
21/10/2025 19:43	66.5	55	49.2
21/10/2025 19:58	72.6	55.5	48.5
21/10/2025 20:13	75	56.9	49
21/10/2025 20:28	77.5	54.3	48.5
21/10/2025 20:43	69.1	54.1	47
21/10/2025 20:58	72.9	54.2	44.9
21/10/2025 21:13	84.2	57.5	44.8
21/10/2025 21:28	73.4	54.6	45.1
21/10/2025 21:43	67.7	51.9	43.7
21/10/2025 21:58	71.4	54.9	45.2
21/10/2025 22:13	66.1	53.6	47.4
21/10/2025 22:28	69.1	52.5	42.3
21/10/2025 22:43	78.5	55.8	41.5
21/10/2025 22:58	65.1	51.1	39.9
21/10/2025 23:13	64.3	51.4	41.6
21/10/2025 23:28	66.8	52.1	41.5
21/10/2025 23:43	65.6	47.7	38.3
21/10/2025 23:58	63.6	49.8	40.2
22/10/2025 00:13	64	50.3	42.5
22/10/2025 00:28	69.8	49	37.9

Date & time	LAFmax [dB]	LAeq [dB]	LA90 [dB]
22/10/2025 00:43	62.4	46.4	37.1
22/10/2025 00:58	61.9	45.6	36.9
22/10/2025 01:13	70.5	47.8	36.9
22/10/2025 01:28	59.6	46.1	37.3
22/10/2025 01:43	64.7	50.2	47.9
22/10/2025 01:58	61.7	47.9	43.4
22/10/2025 02:13	62.2	43.7	37.6
22/10/2025 02:28	61.5	43.5	35.7
22/10/2025 02:43	61.9	42.2	36.4
22/10/2025 02:58	64.3	44.2	34.9
22/10/2025 03:13	64.9	44.8	35.9
22/10/2025 03:28	62.8	43.6	35.8
22/10/2025 03:43	63.5	46	36.5
22/10/2025 03:58	64.8	45.5	36.3
22/10/2025 04:13	65.2	45.9	35.5
22/10/2025 04:28	69.2	51.5	36
22/10/2025 04:43	62.2	46.6	37.3
22/10/2025 04:58	69.1	48.1	37.2
22/10/2025 05:13	70.5	49.8	38
22/10/2025 05:28	79.5	51.8	38.9
22/10/2025 05:43	68.1	53.1	44.2
22/10/2025 05:58	63.5	52.3	47.7
22/10/2025 06:13	82	54.2	46
22/10/2025 06:28	68.8	53.2	45.5
22/10/2025 06:43	70	54.3	45.9
22/10/2025 06:58	68.2	54.9	48.5
22/10/2025 07:13	74.7	58.4	51.8
22/10/2025 07:28	68.8	56.2	51.6
22/10/2025 07:43	71.3	56.3	50.9
22/10/2025 07:58	74.6	57.8	53.3
22/10/2025 08:13	74.8	58.2	54.2
22/10/2025 08:28	72.5	58.3	53.9
22/10/2025 08:43	78.2	58.4	52.7
22/10/2025 08:58	75.4	57	52.4
22/10/2025 09:13	75.6	56.5	53
22/10/2025 09:28	73.7	55.6	51.3
22/10/2025 09:43	81.5	58.3	51
22/10/2025 09:58	71	56.3	51.3
22/10/2025 10:13	79	64.1	52.9
22/10/2025 10:28	83.3	68.4	55.3
22/10/2025 10:43	81.5	67.8	54
22/10/2025 10:58	81.1	68.7	55.2
22/10/2025 11:13	86.8	66.1	52.5
22/10/2025 11:28	95.7	71.2	55.3
22/10/2025 11:43	80.4	68	52.9
22/10/2025 11:58	81.2	67.3	52.4
22/10/2025 12:13	82.3	64.6	49.6
22/10/2025 12:28	80.8	66.5	52.5

Date & time	LAFmax [dB]	LAeq [dB]	LA90 [dB]
22/10/2025 12:43	72.1	55.7	51.8
22/10/2025 12:58	77.9	57.4	52.1
22/10/2025 13:13	79.1	56.9	51
22/10/2025 13:28	73.5	55.2	50.2
22/10/2025 13:43	71.5	54.7	50
22/10/2025 13:58	74.5	57.8	52.5
22/10/2025 14:13	71.1	55.9	52.4
22/10/2025 14:28	70.2	55.5	51.5
22/10/2025 14:43	74.6	56	52.8
22/10/2025 14:58	69.1	54.7	51
22/10/2025 15:13	68.6	55.4	51.7
22/10/2025 15:28	75	56.6	52.4
22/10/2025 15:43	82	60.4	53.2
22/10/2025 15:58	78.9	58.5	52.8
22/10/2025 16:13	75.5	56.8	51.8
22/10/2025 16:28	75.7	55.5	51.4
22/10/2025 16:43	70	55.5	51.5
22/10/2025 16:58	83.7	57.8	53.2
22/10/2025 17:13	71.3	56.2	52.7
22/10/2025 17:28	76	56.1	52.1
22/10/2025 17:43	79.2	58.1	52.8
22/10/2025 17:58	81.7	57.2	52.8
22/10/2025 18:13	71.6	56.1	52.2
22/10/2025 18:28	74.2	56.5	52.4
22/10/2025 18:43	80.7	57.7	52.5
22/10/2025 18:58	75.3	55.6	51.4
22/10/2025 19:13	75.7	56.3	51.4
22/10/2025 19:28	74.1	56.7	51
22/10/2025 19:43	71.6	54.8	48.9
22/10/2025 19:58	64.8	55	48.9
22/10/2025 20:13	71.9	55.1	48.4
22/10/2025 20:28	73	53.8	47.3
22/10/2025 20:43	65.1	51.9	45.2
22/10/2025 20:58	67.9	54.1	47.9
22/10/2025 21:13	85.5	58.9	49.8
22/10/2025 21:28	72.4	56	49.6
22/10/2025 21:43	69.5	55.8	48.4
22/10/2025 21:58	66.7	54.8	46.8
22/10/2025 22:13	66	55.6	47.7
22/10/2025 22:28	74	55.3	47.3
22/10/2025 22:43	65.7	52.9	44.9
22/10/2025 22:58	66	51.8	42.5
22/10/2025 23:13	63.7	52.7	43.3
22/10/2025 23:28	62.9	52.2	42.7
22/10/2025 23:43	70.6	51.7	43.2
22/10/2025 23:58	65.7	51.2	44.7
23/10/2025 00:13	65.8	50.5	45.1
23/10/2025 00:28	68.3	52.3	48.1
23/10/2025 00:43	63	49.7	44.3
23/10/2025 00:58	64.9	49.3	42.3
23/10/2025 01:13	64.8	47.4	39.4
23/10/2025 01:28	63.8	47.4	40.9
23/10/2025 01:43	64.4	50.5	47.8

Date & time	LAFmax [dB]	LAeq [dB]	LA90 [dB]
23/10/2025 01:58	64.9	51	48.7
23/10/2025 02:13	66	51.6	46
23/10/2025 02:28	66.9	48.1	44.1
23/10/2025 02:43	64	45.4	42.2
23/10/2025 02:58	66.2	48.9	40.5
23/10/2025 03:13	64.8	47.7	40.3
23/10/2025 03:28	65.6	46.4	39.2
23/10/2025 03:43	64.2	45.8	38.7
23/10/2025 03:58	69.1	49.3	40.9
23/10/2025 04:13	75.8	51.5	41.6
23/10/2025 04:28	65.7	52.7	43.4
23/10/2025 04:43	67.4	51.7	46
23/10/2025 04:58	70.4	52.5	45.4
23/10/2025 05:13	65	50.3	41.8
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23/10/2025 05:43	76	53.6	45.2
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23/10/2025 06:28	71.8	55.4	49.2
23/10/2025 06:43	67.3	55.2	49.1
23/10/2025 06:58	77.4	58.6	52.1
23/10/2025 07:13	84.2	63	54.1
23/10/2025 07:28	72.7	57.2	52.4
23/10/2025 07:43	78	61.9	52
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23/10/2025 08:13	73.1	59.8	54.6
23/10/2025 08:28	73.1	58.4	53.5
23/10/2025 08:43	74.8	59	53.9
23/10/2025 08:58	72.4	58	54.5
23/10/2025 09:13	77.5	58.7	54.6
23/10/2025 09:28	77.3	58.7	54.9
23/10/2025 09:43	77.5	57.5	53.4
23/10/2025 09:58	83.8	62.5	53.2
23/10/2025 10:13	72.9	56.8	53.4
23/10/2025 10:28	71.5	59.2	53.3
23/10/2025 10:43	75.6	56.5	53.5
23/10/2025 10:58	69.9	56.4	53.3
23/10/2025 11:13	70.4	56	52.8
23/10/2025 11:28	71.6	57.1	53.6
23/10/2025 11:43	71.7	56.7	52.9
23/10/2025 11:58	78.8	56.9	53.5
23/10/2025 12:13	86.3	60.1	53.4
23/10/2025 12:28	86.1	59.2	53.9
23/10/2025 12:43	75.4	56.9	52.6
23/10/2025 12:58	81	59	53.8
23/10/2025 13:13	72.7	56.9	53
23/10/2025 13:28	70.2	56.3	52.1
23/10/2025 13:43	73.3	57	51.7
23/10/2025 13:58	80.4	58.3	53.5
23/10/2025 14:13	73	56.6	53.1
23/10/2025 14:28	67.9	56.7	53.5
23/10/2025 14:43	73.3	56.6	53.6
23/10/2025 14:58	72.2	56.6	53.6

Date & time	LAFmax [dB]	LAeq [dB]	LA90 [dB]
23/10/2025 15:13	74	57.3	53.1
23/10/2025 15:28	69.1	55.6	52.1
23/10/2025 15:43	77.1	57.2	52.7
23/10/2025 15:58	75.1	57.5	53.5
23/10/2025 16:13	68	56.6	53.5
23/10/2025 16:28	82.8	57.6	52.3
23/10/2025 16:43	77.5	56.7	52.7
23/10/2025 16:58	76.2	57.6	52.6
23/10/2025 17:13	79.1	59.1	53.5
23/10/2025 17:28	77.3	57.9	53.3
23/10/2025 17:43	74	56.8	52.9
23/10/2025 17:58	74.2	58.9	54
23/10/2025 18:13	72.2	59.1	53.9
23/10/2025 18:28	73.3	57.6	53.6
23/10/2025 18:43	78.9	59.3	54.2
23/10/2025 18:58	69.2	57	52.9
23/10/2025 19:13	75.8	57.2	52.8
23/10/2025 19:28	78.3	57.7	52.9
23/10/2025 19:43	64.3	55.3	52.5
23/10/2025 19:58	81.3	57	52.2
23/10/2025 20:13	71.5	56.5	51.6
23/10/2025 20:28	76.2	55.1	51.7
23/10/2025 20:43	68.1	55.4	51.4
23/10/2025 20:58	76.3	55.3	50.8
23/10/2025 21:13	73.5	55.9	51.7
23/10/2025 21:28	77.5	57	50.9
23/10/2025 21:43	76.3	59.6	52.1
23/10/2025 21:58	85.3	59.1	50.6
23/10/2025 22:13	69.9	55.2	51.2
23/10/2025 22:28	85	59.6	50.9
23/10/2025 22:43	68.7	54.4	50.4
23/10/2025 22:58	65.9	52.7	45.4
23/10/2025 23:13	71.1	53.3	43
23/10/2025 23:28	69.9	51.7	41.4
23/10/2025 23:43	66.4	49.7	40.3
23/10/2025 23:58	74.9	50.4	41
24/10/2025 00:13	62.2	49.2	41.3
24/10/2025 00:28	64	47.2	40.7
24/10/2025 00:43	62.7	47.7	40
24/10/2025 00:58	65.4	48.8	40
24/10/2025 01:13	65.4	47.2	39
24/10/2025 01:28	63	44.1	39.1
24/10/2025 01:43	62.9	45.3	38.9
24/10/2025 01:58	65.8	46	38.6
24/10/2025 02:13	61.2	44.8	39
24/10/2025 02:28	63.1	43.8	38.9
24/10/2025 02:43	60.7	44.6	38.8
24/10/2025 02:58	62.3	46.5	39
24/10/2025 03:13	63.7	46.3	38.9
24/10/2025 03:28	60.7	43.7	38.6
24/10/2025 03:43	65.6	45.8	38.5
24/10/2025 03:58	62.8	46.7	39.1
24/10/2025 04:13	64.1	46.4	39

Date & time	LAFmax [dB]	LAeq [dB]	LA90 [dB]
24/10/2025 04:28	70.5	47.8	39
24/10/2025 04:43	62.9	47.4	39.5
24/10/2025 04:58	78.9	49.8	40.4
24/10/2025 05:13	65.2	50.6	39.8
24/10/2025 05:28	78.5	55.2	42.1
24/10/2025 05:43	74	53.8	44.5
24/10/2025 05:58	65.4	52.8	46.2
24/10/2025 06:13	78.8	54	46
24/10/2025 06:28	76	54.3	46.3
24/10/2025 06:43	72.6	57.5	47.5
24/10/2025 06:58	75.3	56.5	48.2
24/10/2025 07:13	73.2	55.8	49.9
24/10/2025 07:28	80.9	58.2	51.7
24/10/2025 07:43	68.1	56	51.4
24/10/2025 07:58	74.2	57.9	52.1
24/10/2025 08:13	77	59.2	52.3
24/10/2025 08:28	77.6	59.9	53.6
24/10/2025 08:43	67.9	56.3	51.6
24/10/2025 08:58	79.8	56.5	52.6
24/10/2025 09:13	73.2	56.4	52.8
24/10/2025 09:28	75.2	57	53.1
24/10/2025 09:43	78.3	61.9	54.5
24/10/2025 09:58	72.6	57.4	54.2
24/10/2025 10:13	72.9	56.7	53.3
24/10/2025 10:28	72.1	56.9	53.5
24/10/2025 10:43	69.6	56.6	53.3
24/10/2025 10:58	82.3	57.9	53.7
24/10/2025 11:13	73.7	57.2	53.5
24/10/2025 11:28	73.7	58.1	53.8
24/10/2025 11:43	71.5	56.6	52.6
24/10/2025 11:58	75.5	57	52.6
24/10/2025 12:13	74.9	57	52.4
24/10/2025 12:28	73.2	57.1	53.1
24/10/2025 12:43	75.2	58.3	52.6
24/10/2025 12:58	71.3	56.9	52.9
24/10/2025 13:13	79.1	57.9	51.7
24/10/2025 13:28	72.8	56.2	51.9
24/10/2025 13:43	73.8	54.9	50.7
24/10/2025 13:58	78.3	58.1	52.3
24/10/2025 14:13	72.8	56.4	53.4
24/10/2025 14:28	74.7	57	53.3
24/10/2025 14:43	82.7	60.9	53.2
24/10/2025 14:58	71.4	56.4	52.9
24/10/2025 15:13	73.1	56.6	52.4
24/10/2025 15:28	73	55.5	51.5
24/10/2025 15:43	71	57	52
24/10/2025 15:58	80.8	59.1	52.9
24/10/2025 16:13	83.2	59.4	53.5
24/10/2025 16:28	91.3	63.2	53
24/10/2025 16:43	81.8	60.5	53.7
24/10/2025 16:58	75.8	56.4	52.4
24/10/2025 17:13	73.5	57.6	53.3
24/10/2025 17:28	78.1	58.4	52.5

Date & time	LAFmax [dB]	LAeq [dB]	LA90 [dB]
24/10/2025 17:43	77.6	57.4	52.2
24/10/2025 17:58	76.1	57.6	52.6
24/10/2025 18:13	73.2	56	53.1
24/10/2025 18:28	94.6	67.5	53.5
24/10/2025 18:43	80.7	57.5	53.9
24/10/2025 18:58	69.6	56.8	52.7
24/10/2025 19:13	78.8	57.6	52.2
24/10/2025 19:28	71.2	56.3	52.6
24/10/2025 19:43	75.2	56.2	51.8
24/10/2025 19:58	74	55.9	50.7
24/10/2025 20:13	68.2	56.1	51.1
24/10/2025 20:28	76.6	56	51.2
24/10/2025 20:43	75.4	55.6	51.4
24/10/2025 20:58	66.7	55.5	51.5
24/10/2025 21:13	86.9	59.1	51.5
24/10/2025 21:28	71.4	56.4	51.9
24/10/2025 21:43	68.9	54.6	50.8
24/10/2025 21:58	69.6	55	50
24/10/2025 22:13	73.2	56.3	50.5
24/10/2025 22:28	70	55.6	50.9
24/10/2025 22:43	66.8	54.9	50.5
24/10/2025 22:58	65.8	54.2	50.2
24/10/2025 23:13	69.6	55	50.7
24/10/2025 23:28	71	55.9	51
24/10/2025 23:43	76.2	58.1	49.4
24/10/2025 23:58	77	63.9	50.2
25/10/2025 00:13	63.7	52.8	49.5
25/10/2025 00:28	71.1	54.4	49.1
25/10/2025 00:43	67	53.8	49.7
25/10/2025 00:58	68.8	52.8	48.2
25/10/2025 01:13	84.3	58	49.5
25/10/2025 01:28	65.3	51.7	48.9
25/10/2025 01:43	83.7	57.9	49.3
25/10/2025 01:58	72.1	52.3	48.8
25/10/2025 02:13	64.7	52	49
25/10/2025 02:28	65.2	51.8	48.5
25/10/2025 02:43	68.2	51.8	49.2
25/10/2025 02:58	76.4	58.2	48.7
25/10/2025 03:13	62.3	51.3	48.2
25/10/2025 03:28	67.6	51.7	49
25/10/2025 03:43	70.3	51.9	49.1
25/10/2025 03:58	63.8	50.5	46.5
25/10/2025 04:13	62.8	51.2	48.4
25/10/2025 04:28	65.8	50.6	48.4
25/10/2025 04:43	63.7	50.7	48.7
25/10/2025 04:58	60.4	50.4	48
25/10/2025 05:13	68.5	52	48.8
25/10/2025 05:28	80	54.6	49.9
25/10/2025 05:43	68.9	51.5	48.2
25/10/2025 05:58	64.6	52.1	48
25/10/2025 06:13	74.4	51.7	46.7
25/10/2025 06:28	64.4	51.6	45.3
25/10/2025 06:43	62.1	50.5	43.2

Date & time	LAFmax [dB]	LAeq [dB]	LA90 [dB]
25/10/2025 06:58	74	51.8	44.2
25/10/2025 07:13	66.7	53.7	49.6
25/10/2025 07:28	69.4	53.9	49.9
25/10/2025 07:43	74.9	55.9	47.7
25/10/2025 07:58	68.5	54.2	48.8
25/10/2025 08:13	70.9	54	48.1
25/10/2025 08:28	68.8	54.7	50.5
25/10/2025 08:43	70.3	55.5	51.9
25/10/2025 08:58	70	56	50.6
25/10/2025 09:13	85.3	56.8	52
25/10/2025 09:28	70.9	54.7	50.8
25/10/2025 09:43	72.9	55.8	50.9
25/10/2025 09:58	69.7	55.3	50.4
25/10/2025 10:13	72.3	55.2	51
25/10/2025 10:28	80	57.8	52.1
25/10/2025 10:43	86.8	57.7	51.2
25/10/2025 10:58	91.2	62.9	52.5
25/10/2025 11:13	74.9	56	51.9
25/10/2025 11:28	69.7	56.5	51.4
25/10/2025 11:43	72.7	56	51.7
25/10/2025 11:58	78.7	59.3	52.7
25/10/2025 12:13	77.2	58	53
25/10/2025 12:28	83.5	57	51.6
25/10/2025 12:43	76.1	56.7	50.7
25/10/2025 12:58	81.3	59.9	52.7
25/10/2025 13:13	73.4	57.4	52.8
25/10/2025 13:28	79.2	59.8	54.2
25/10/2025 13:43	88.8	65.8	54.4
25/10/2025 13:58	81	59.3	53.5
25/10/2025 14:13	77.1	58.9	54.1
25/10/2025 14:28	73.9	56.9	53.8
25/10/2025 14:43	83.8	60.1	53.4
25/10/2025 14:58	71.8	56.8	53
25/10/2025 15:13	71.2	56.2	52.8
25/10/2025 15:28	77.9	56.7	51.4
25/10/2025 15:43	69.7	56.1	51.5
25/10/2025 15:58	84.2	58.9	53.2
25/10/2025 16:13	92.6	62.4	53.7
25/10/2025 16:28	76.3	59.3	53.2
25/10/2025 16:43	70	56.3	52.2
25/10/2025 16:58	75	57.7	53.8
25/10/2025 17:13	70	56.9	52.9
25/10/2025 17:28	86.6	58.9	53.8
25/10/2025 17:43	75.2	57.8	52.6
25/10/2025 17:58	69.7	56.3	52
25/10/2025 18:13	74.2	56.8	53
25/10/2025 18:28	78.1	57.8	52.9
25/10/2025 18:43	73.8	56.1	51.9
25/10/2025 18:58	79.2	57	52.1
25/10/2025 19:13	70.2	54.5	50.8
25/10/2025 19:28	70.8	54.8	49.2
25/10/2025 19:43	71.5	54.8	48.7
25/10/2025 19:58	84	57.2	48.2

Date & time	LAFmax [dB]	LAeq [dB]	LA90 [dB]
25/10/2025 20:13	76.3	54.8	46.1
25/10/2025 20:28	70.3	53.5	47.4
25/10/2025 20:43	71.1	54.5	47.1
25/10/2025 20:58	65.8	53	45.3
25/10/2025 21:13	83.2	58	45.6
25/10/2025 21:28	75.2	54.4	46.7
25/10/2025 21:43	73.1	53.3	45.4
25/10/2025 21:58	71.2	53.4	45.2
25/10/2025 22:13	72.3	53.4	45.8
25/10/2025 22:28	76.8	56.5	46.7
25/10/2025 22:43	66	52.9	44.5
25/10/2025 22:58	79.6	55.3	45.6
25/10/2025 23:13	65.8	51.7	43.6
25/10/2025 23:28	74.1	56.2	45.7
25/10/2025 23:43	70	51.5	43.6
25/10/2025 23:58	72	53	43.4
26/10/2025 00:13	63.2	52.2	43.2
26/10/2025 00:28	66.5	52.7	43.3
26/10/2025 00:43	65.6	51.2	41.9
26/10/2025 00:58	63	50.6	41.9
26/10/2025 01:13	74.6	52.4	43
26/10/2025 01:28	64.8	50.8	41.8
26/10/2025 01:43	64	49.5	39.4
26/10/2025 01:58	80.6	55.3	41
26/10/2025 02:13	67.8	50.6	41.2
26/10/2025 02:28	62.8	49.4	39.5
26/10/2025 02:43	68.2	49.8	37.8
26/10/2025 02:58	62.4	47.3	37.4
26/10/2025 03:13	71.6	51.1	39.2
26/10/2025 03:28	62.9	47.7	38.6
26/10/2025 03:43	66.7	47.2	37.8
26/10/2025 03:58	62.8	48.5	37.7
26/10/2025 04:13	72.3	48	38
26/10/2025 04:28	57.6	42.9	36.4
26/10/2025 04:43	61.9	45.8	36.9
26/10/2025 04:58	64.9	46.4	37.1
26/10/2025 05:13	62	46.7	37.3
26/10/2025 05:28	63.4	43.6	35.2
26/10/2025 05:43	62.4	44.9	36.2
26/10/2025 05:58	64.8	45.7	36.8
26/10/2025 06:13	60.5	43.7	36.9
26/10/2025 06:28	71	50.6	37.7
26/10/2025 06:43	66.4	47.4	38.5
26/10/2025 06:58	62.4	45.4	37.3
26/10/2025 07:13	76.7	52.6	40.1
26/10/2025 07:28	71.5	49.7	39.5
26/10/2025 07:43	70.2	53.3	40.2
26/10/2025 07:58	77.3	56.1	41.3
26/10/2025 08:13	63	50.4	41.3
26/10/2025 08:28	66.1	52	42.6
26/10/2025 08:43	71.7	54	44.8
26/10/2025 08:58	66.4	52.6	45.1
26/10/2025 09:13	69.8	52.8	45.5

Date & time	LAFmax [dB]	LAeq [dB]	LA90 [dB]
26/10/2025 09:28	64.8	51.9	45.1
26/10/2025 09:43	68.5	52.2	45
26/10/2025 09:58	77.1	58.1	47.4
26/10/2025 10:13	69.2	53.3	46.8
26/10/2025 10:28	77.2	54.5	47.3
26/10/2025 10:43	76	54.7	49.8
26/10/2025 10:58	82.7	57.9	51.9
26/10/2025 11:13	72.3	56	52
26/10/2025 11:28	78.3	57	51.4
26/10/2025 11:43	75.2	56.6	51.5
26/10/2025 11:58	75.5	57.7	52.7
26/10/2025 12:13	79.2	56.7	51.6
26/10/2025 12:28	87.1	60.2	51.9
26/10/2025 12:43	71.7	56.1	50.3
26/10/2025 12:58	71	56.8	52.6
26/10/2025 13:13	79.9	58.9	53.9
26/10/2025 13:28	75.3	57	53
26/10/2025 13:43	89.9	62.3	53
26/10/2025 13:58	72	56.7	53.1
26/10/2025 14:13	69.6	56.6	53
26/10/2025 14:28	80.9	57.5	52.9
26/10/2025 14:43	85.2	60.9	53.3
26/10/2025 14:58	80.5	58.4	53.5
26/10/2025 15:13	76.2	57.6	53.3
26/10/2025 15:28	77.8	58.1	53.6
26/10/2025 15:43	77.5	57.4	53.4
26/10/2025 15:58	85.6	64.7	53.3
26/10/2025 16:13	77.2	57.1	53.3
26/10/2025 16:28	72.2	56.5	53.3
26/10/2025 16:43	69.1	56.9	53.5
26/10/2025 16:58	68.4	57.8	54.3
26/10/2025 17:13	76.5	57.9	53.5
26/10/2025 17:28	67.2	55.7	51.8
26/10/2025 17:43	69.7	55.9	52.6
26/10/2025 17:58	71.7	57.1	51.6
26/10/2025 18:13	82	58.4	52.5
26/10/2025 18:28	73	56.2	51.9
26/10/2025 18:43	78.5	56.5	52
26/10/2025 18:58	74.5	56.3	51.6
26/10/2025 19:13	88.2	59.3	49.7
26/10/2025 19:28	70.3	55.3	51.3
26/10/2025 19:43	73.9	56.2	50.9
26/10/2025 19:58	72.6	56.6	52.6
26/10/2025 20:13	69.3	55.4	49.7
26/10/2025 20:28	83	57.9	50.6
26/10/2025 20:43	70.7	55.3	51
26/10/2025 20:58	67.6	54.1	48.5
26/10/2025 21:13	71.3	54.6	46.9
26/10/2025 21:28	74	54.7	47.4
26/10/2025 21:43	64.3	53.1	46.9
26/10/2025 21:58	70.5	53.8	45.5
26/10/2025 22:13	64.1	52.8	44.9
26/10/2025 22:28	77.2	55.5	45.1

Date & time	LAFmax [dB]	LAeq [dB]	LA90 [dB]
26/10/2025 22:43	65.5	52.1	44.2
26/10/2025 22:58	64.1	51.4	44.3
26/10/2025 23:13	63.8	50.8	43.4
26/10/2025 23:28	67.7	51.4	43.2
26/10/2025 23:43	61.9	49.9	41.2
26/10/2025 23:58	67.9	50.2	40.5
27/10/2025 00:13	75	50.8	40.8
27/10/2025 00:28	64.3	48.8	39.6
27/10/2025 00:43	66.1	49.4	40
27/10/2025 00:58	61.8	46.5	39.3
27/10/2025 01:13	63.9	48.6	38.5
27/10/2025 01:28	63.5	46.7	38
27/10/2025 01:43	62.7	46.3	37.9
27/10/2025 01:58	63.4	47.4	38.4
27/10/2025 02:13	60.6	43.1	36.9
27/10/2025 02:28	60.5	43.7	37.4
27/10/2025 02:43	61.8	44.2	37.5
27/10/2025 02:58	61.7	42.8	36.7
27/10/2025 03:13	56.3	41	36.7
27/10/2025 03:28	61.9	43.8	37.2
27/10/2025 03:43	62.9	43.6	37.3
27/10/2025 03:58	60.6	42.8	37.5
27/10/2025 04:13	62.4	44.1	37.8
27/10/2025 04:28	54.4	41.2	38.2
27/10/2025 04:43	64.9	44.8	37.9
27/10/2025 04:58	61.5	44.5	38.6
27/10/2025 05:13	61.8	44.2	38.7
27/10/2025 05:28	67.6	46.4	38.4
27/10/2025 05:43	65.2	47.8	38.4
27/10/2025 05:58	71.9	48.5	39.6
27/10/2025 06:13	64.7	48.1	40.9
27/10/2025 06:28	85.2	58.9	42.8
27/10/2025 06:43	71	53.1	44.5
27/10/2025 06:58	70.4	52.8	44.4
27/10/2025 07:13	71.4	55	49
27/10/2025 07:28	69.9	53.5	46.8
27/10/2025 07:43	67	53.7	47.4
27/10/2025 07:58	65.2	54.9	48.7
27/10/2025 08:13	77.2	56.2	50.2
27/10/2025 08:28	74.7	56	50.9
27/10/2025 08:43	79.5	61.3	51.5
27/10/2025 08:58	79.7	58	51.9
27/10/2025 09:13	75.5	58.5	51.7

Rear Façade

Date & time	LAFmax [dB]	LAeq [dB]	LA90 [dB]
21/10/2025 13:09	67.5	49.5	45.8
21/10/2025 13:24	71.2	50.1	45
21/10/2025 13:39	66.8	49.9	45.5
21/10/2025 13:54	67	48.7	45.5

Date & time	LAFmax [dB]	LAeq [dB]	LA90 [dB]
21/10/2025 14:09	74	50.9	46
21/10/2025 14:24	70.8	51.7	45.8
21/10/2025 14:39	75	54.3	46.6
21/10/2025 14:54	64.4	50	46.6
21/10/2025 15:09	69.8	50.9	46.1
21/10/2025 15:24	69	51.5	45.9
21/10/2025 15:39	65.4	49.5	46.1
21/10/2025 15:54	72	51.8	47
21/10/2025 16:09	75	49.4	46.3
21/10/2025 16:24	70.9	50	46.4
21/10/2025 16:39	73.1	50.7	46.2
21/10/2025 16:54	72.4	52.1	46.3
21/10/2025 17:09	68.9	50	46.4
21/10/2025 17:24	68.9	49.3	45.3
21/10/2025 17:39	67.1	50.5	45.7
21/10/2025 17:54	74.1	52.6	46.6
21/10/2025 18:09	68.8	52.5	47.4
21/10/2025 18:24	66	51	47.2
21/10/2025 18:39	72	52.5	47.2
21/10/2025 18:54	62.4	48.3	46.1
21/10/2025 19:09	63.4	50.3	45.7
21/10/2025 19:24	63.2	48.6	45.5
21/10/2025 19:39	65.6	49.2	45.8
21/10/2025 19:54	76	49.2	45.4
21/10/2025 20:09	73.6	52.2	45.6
21/10/2025 20:24	68.1	48.5	44.9
21/10/2025 20:39	67.6	48.9	44.5
21/10/2025 20:54	71.1	48.6	44.2
21/10/2025 21:09	58.9	46.2	43.2
21/10/2025 21:24	60	47	43.4
21/10/2025 21:39	61.2	47.2	42.4
21/10/2025 21:54	61.9	46.4	41.8
21/10/2025 22:09	62.5	46	43
21/10/2025 22:24	61.3	45.9	42
21/10/2025 22:39	59.8	44.1	41.3
21/10/2025 22:54	61	45.8	40.7
21/10/2025 23:09	58.5	43.9	40.6
21/10/2025 23:24	68.3	47.3	42.4
21/10/2025 23:39	56.7	43.1	39.6
21/10/2025 23:54	57.8	43.5	38.6
22/10/2025 00:09	57.9	43.9	41.4
22/10/2025 00:24	54.3	40.8	38.1
22/10/2025 00:39	58.3	42.6	38
22/10/2025 00:54	57	40.3	38.1
22/10/2025 01:09	57.3	40.8	37.5
22/10/2025 01:24	54.9	39.7	37.3
22/10/2025 01:39	55.6	42.7	40.4
22/10/2025 01:54	55.2	42	40.2
22/10/2025 02:09	55.4	39.3	36.7
22/10/2025 02:24	54.8	39.4	37.1
22/10/2025 02:39	64.6	42.7	36.5
22/10/2025 02:54	66	48	37.3
22/10/2025 03:09	56.2	40.1	37.1

Date & time	LAFmax [dB]	LAeq [dB]	LA90 [dB]
22/10/2025 03:24	54.1	39.6	37.6
22/10/2025 03:39	54.8	41.1	37.8
22/10/2025 03:54	55.1	39.7	37
22/10/2025 04:09	53	38.7	36
22/10/2025 04:24	56.8	39.6	36.8
22/10/2025 04:39	58.8	41.5	37.9
22/10/2025 04:54	59.1	40.8	38.2
22/10/2025 05:09	55.2	40.7	38
22/10/2025 05:24	67.6	43.2	39
22/10/2025 05:39	66.2	47.5	41.2
22/10/2025 05:54	56.3	45.8	44
22/10/2025 06:09	59.1	46	43.2
22/10/2025 06:24	64.1	46.5	43
22/10/2025 06:39	58.4	46.1	43.4
22/10/2025 06:54	57.1	47	44
22/10/2025 07:09	60.3	48.6	45.2
22/10/2025 07:24	60.8	50.6	45.7
22/10/2025 07:39	67.8	50.9	45.3
22/10/2025 07:54	73.3	51.2	45.3
22/10/2025 08:09	70	50.1	46.2
22/10/2025 08:24	66.3	48.8	45.7
22/10/2025 08:39	74	50.5	46.5
22/10/2025 08:54	80.9	58.8	45.4
22/10/2025 09:09	71	51.4	45.7
22/10/2025 09:24	73.6	52.6	45.5
22/10/2025 09:39	68.7	48.6	45
22/10/2025 09:54	71.5	50.5	45.3
22/10/2025 10:09	67.9	50.6	46.2
22/10/2025 10:24	71.1	50.9	46
22/10/2025 10:39	84.3	54.3	47.4
22/10/2025 10:54	61.2	50.1	46.8
22/10/2025 11:09	65.5	49.1	45.2
22/10/2025 11:24	82.7	60	47.6
22/10/2025 11:39	75.5	55.1	46.3
22/10/2025 11:54	72.8	52	46.5
22/10/2025 12:09	72.4	52	44.4
22/10/2025 12:24	78.1	54.5	45.3
22/10/2025 12:39	71.5	48.9	45.3
22/10/2025 12:54	75.8	51.2	45.3
22/10/2025 13:09	61.1	48.7	44.5
22/10/2025 13:24	76.2	49.7	44.5
22/10/2025 13:39	67.4	48.2	44.3
22/10/2025 13:54	65.5	49.5	45.2
22/10/2025 14:09	68.4	48.6	45.2
22/10/2025 14:24	73.8	50	44
22/10/2025 14:39	73	50.3	44.7
22/10/2025 14:54	74.3	52	44.4
22/10/2025 15:09	71.6	50.2	44.3
22/10/2025 15:24	67.2	49.1	44.9
22/10/2025 15:39	72.9	52.3	45
22/10/2025 15:54	71.7	51.7	45
22/10/2025 16:09	67.3	48.5	44.5
22/10/2025 16:24	68	48.7	44.7

Date & time	LAFmax [dB]	LAeq [dB]	LA90 [dB]
22/10/2025 16:39	67	47.8	44
22/10/2025 16:54	71.2	48.8	44.2
22/10/2025 17:09	71.4	51.5	45.9
22/10/2025 17:24	68.1	49.6	45.1
22/10/2025 17:39	69.7	52	45.1
22/10/2025 17:54	68.3	50.3	45.9
22/10/2025 18:09	67.6	49.7	45.3
22/10/2025 18:24	78.8	50.1	45.6
22/10/2025 18:39	66	47.6	44.4
22/10/2025 18:54	71.3	50.8	44.5
22/10/2025 19:09	72.6	52.5	44.4
22/10/2025 19:24	73	53	44.6
22/10/2025 19:39	67.5	51.3	43.7
22/10/2025 19:54	60.8	47.2	43.4
22/10/2025 20:09	63.4	48.3	42.3
22/10/2025 20:24	70.4	48.7	41.5
22/10/2025 20:39	69.4	49	40.9
22/10/2025 20:54	59.3	47.1	44.2
22/10/2025 21:09	72.2	51.9	44.6
22/10/2025 21:24	61.2	48.6	45
22/10/2025 21:39	62.2	48.9	45.7
22/10/2025 21:54	59.6	46.6	43.6
22/10/2025 22:09	66.9	50.2	44
22/10/2025 22:24	62.1	47.2	43.8
22/10/2025 22:39	67.7	48.6	42.9
22/10/2025 22:54	61	44.5	42
22/10/2025 23:09	57.1	45.1	42.2
22/10/2025 23:24	59.9	45.8	43
22/10/2025 23:39	60.4	44.2	40.3
22/10/2025 23:54	57.4	43.8	41.2
23/10/2025 00:09	63.9	43.5	40.7
23/10/2025 00:24	57.4	44	41.6
23/10/2025 00:39	55.5	44.5	42.4
23/10/2025 00:54	52.7	43.4	41.3
23/10/2025 01:09	56	42.1	39.4
23/10/2025 01:24	57.7	42.5	39.6
23/10/2025 01:39	56.4	44.8	43
23/10/2025 01:54	53.9	47.2	45.3
23/10/2025 02:09	58.8	48.9	46.7
23/10/2025 02:24	61.6	52.7	48.5
23/10/2025 02:39	61.1	52.8	48.5
23/10/2025 02:54	66.3	47.7	43.6
23/10/2025 03:09	59.1	44.7	41
23/10/2025 03:24	58.4	43.9	41.3
23/10/2025 03:39	56.5	43.1	40.1
23/10/2025 03:54	75.2	46.2	40
23/10/2025 04:09	60.4	44.4	39.9
23/10/2025 04:24	62.3	49.5	41.1
23/10/2025 04:39	70.7	52.5	44.7
23/10/2025 04:54	76.5	47	42.7
23/10/2025 05:09	60.2	43.9	40.3
23/10/2025 05:24	65	45.6	41.5
23/10/2025 05:39	63.8	46.3	42.3

Date & time	LAFmax [dB]	LAeq [dB]	LA90 [dB]
23/10/2025 05:54	64.9	47.1	44.1
23/10/2025 06:09	61	48.2	44.5
23/10/2025 06:24	71.3	50	45.6
23/10/2025 06:39	69.1	49.1	45.5
23/10/2025 06:54	62.2	51	46.9
23/10/2025 07:09	75.2	54.4	48.6
23/10/2025 07:24	77.6	54.8	49.1
23/10/2025 07:39	70.6	52.9	48.2
23/10/2025 07:54	63.5	51.5	48.2
23/10/2025 08:09	75.3	52.4	49.6
23/10/2025 08:24	71.3	52.2	48.4
23/10/2025 08:39	68.6	52	48.8
23/10/2025 08:54	76.6	54.5	49
23/10/2025 09:09	75.5	54.4	49.8
23/10/2025 09:24	69.9	52.9	50
23/10/2025 09:39	73.2	53	49
23/10/2025 09:54	78.5	55.5	49.5
23/10/2025 10:09	70.3	53.3	49
23/10/2025 10:24	83.2	67.6	49.3
23/10/2025 10:39	74.1	54.3	48.5
23/10/2025 10:54	74.7	53.8	49
23/10/2025 11:09	69.3	52.3	48.1
23/10/2025 11:24	66.3	51.1	48.3
23/10/2025 11:39	65.4	50.3	48.1
23/10/2025 11:54	76.3	53.1	48.4
23/10/2025 12:09	71.4	53.5	48.1
23/10/2025 12:24	76.6	53.8	48.8
23/10/2025 12:39	61.2	49.8	47.5
23/10/2025 12:54	64.6	51.8	47.8
23/10/2025 13:09	65.9	49.8	47.5
23/10/2025 13:24	69.6	51.4	48
23/10/2025 13:39	65.9	49.9	47.1
23/10/2025 13:54	73.2	52.4	48.1
23/10/2025 14:09	64.1	49.6	47.4
23/10/2025 14:24	61.9	50.3	47.6
23/10/2025 14:39	65.3	50.2	48.1
23/10/2025 14:54	67.3	51	47.8
23/10/2025 15:09	69.9	51.2	47.4
23/10/2025 15:24	62.3	49.2	47.1
23/10/2025 15:39	70.8	50	46.4
23/10/2025 15:54	68.5	49.6	47.2
23/10/2025 16:09	70	51.1	47.4
23/10/2025 16:24	68.4	50.2	46.8
23/10/2025 16:39	69.1	50.5	47
23/10/2025 16:54	65.6	49	46.3
23/10/2025 17:09	67.8	50.3	47.8
23/10/2025 17:24	70.9	51.8	47.3
23/10/2025 17:39	70.4	51.8	47
23/10/2025 17:54	69.9	52	47.3
23/10/2025 18:09	67.9	52	48.1
23/10/2025 18:24	66	51.9	47.9
23/10/2025 18:39	61.2	50	47.5
23/10/2025 18:54	72.3	52	48

Date & time	LAFmax [dB]	LAeq [dB]	LA90 [dB]
23/10/2025 19:09	77.3	52.4	47.4
23/10/2025 19:24	60.9	50.4	48
23/10/2025 19:39	66.3	50	47.1
23/10/2025 19:54	62	49.7	46.9
23/10/2025 20:09	75.5	51	46.1
23/10/2025 20:24	88.5	56.7	46.4
23/10/2025 20:39	59	48.6	45.9
23/10/2025 20:54	71.4	49.4	46.1
23/10/2025 21:09	60.2	48.6	46
23/10/2025 21:24	62.4	49.6	46
23/10/2025 21:39	59.5	48.1	45.7
23/10/2025 21:54	67.4	49.8	45.1
23/10/2025 22:09	62.2	48	45.4
23/10/2025 22:24	62.4	48.2	45.4
23/10/2025 22:39	67.1	48.4	45
23/10/2025 22:54	57.7	46.3	44.1
23/10/2025 23:09	57.2	44.5	41.9
23/10/2025 23:24	58.7	45.1	42
23/10/2025 23:39	60.2	43.8	41
23/10/2025 23:54	55.6	43.9	41.2
24/10/2025 00:09	69.2	45.9	41.7
24/10/2025 00:24	64.8	45.8	43.6
24/10/2025 00:39	59.4	43.7	40.7
24/10/2025 00:54	58.4	43.5	41.1
24/10/2025 01:09	55.9	42.6	40
24/10/2025 01:24	54.4	41	38.6
24/10/2025 01:39	53.3	41.4	39.3
24/10/2025 01:54	57.4	41.1	38.6
24/10/2025 02:09	53.4	41.1	38.3
24/10/2025 02:24	47.7	40.4	38.5
24/10/2025 02:39	56.9	41.2	39
24/10/2025 02:54	55.9	41.3	38.5
24/10/2025 03:09	62.3	42.9	39.2
24/10/2025 03:24	54.4	42.5	40.2
24/10/2025 03:39	48.8	41.8	39.6
24/10/2025 03:54	55.7	41.4	39.5
24/10/2025 04:09	57.4	41.6	39.1
24/10/2025 04:24	53.5	42.1	39.8
24/10/2025 04:39	50.7	41.4	39.5
24/10/2025 04:54	60.1	43	40
24/10/2025 05:09	57.7	42.8	40.2
24/10/2025 05:24	60.5	44.3	41.4
24/10/2025 05:39	59.2	45.7	42.7
24/10/2025 05:54	60.3	45.8	43.7
24/10/2025 06:09	58.3	47.3	44.1
24/10/2025 06:24	72.6	52.1	45
24/10/2025 06:39	59.1	47.7	45.2
24/10/2025 06:54	78.7	50.5	45.5
24/10/2025 07:09	80.6	52.1	46.4
24/10/2025 07:24	78.7	51.8	47.2
24/10/2025 07:39	71	52.6	48.3
24/10/2025 07:54	71.6	52.9	48.1
24/10/2025 08:09	75.3	55.8	48.1

Date & time	LAFmax [dB]	LAeq [dB]	LA90 [dB]
24/10/2025 08:24	74.8	53.1	48.4
24/10/2025 08:39	73.9	52.7	47.9
24/10/2025 08:54	81.4	54.6	48.6
24/10/2025 09:09	71.6	52.5	48.3
24/10/2025 09:24	70.8	54.8	48.5
24/10/2025 09:39	81.9	59.1	48.6
24/10/2025 09:54	73.1	53.5	49.3
24/10/2025 10:09	74.3	53.2	48.4
24/10/2025 10:24	68.8	49.9	48.1
24/10/2025 10:39	65.5	50	47.7
24/10/2025 10:54	76.3	52.8	48.1
24/10/2025 11:09	67.3	50.4	48.1
24/10/2025 11:24	69.9	51.9	48.2
24/10/2025 11:39	68.1	50.9	47.8
24/10/2025 11:54	64.5	51.1	48.7
24/10/2025 12:09	67.4	51.2	47.8
24/10/2025 12:24	70.5	52.5	48.2
24/10/2025 12:39	74.1	53.4	47.4
24/10/2025 12:54	65.3	50.8	48
24/10/2025 13:09	73.7	51.6	47.7
24/10/2025 13:24	73.4	52.2	48.2
24/10/2025 13:39	70.1	49.5	47.3
24/10/2025 13:54	78.1	50.7	47
24/10/2025 14:09	58.9	50.7	48.3
24/10/2025 14:24	62.5	50.9	47.7
24/10/2025 14:39	65.4	50.6	47.3
24/10/2025 14:54	75.8	51.7	47.8
24/10/2025 15:09	72.7	52.5	47.4
24/10/2025 15:24	67.7	50.6	46.9
24/10/2025 15:39	69.5	51.3	47.1
24/10/2025 15:54	64.2	49.6	46.6
24/10/2025 16:09	65.6	49.7	46.8
24/10/2025 16:24	78.4	57.9	47.7
24/10/2025 16:39	63.7	49.7	47.2
24/10/2025 16:54	75	52.1	47.5
24/10/2025 17:09	70.4	51.6	47.9
24/10/2025 17:24	70.3	51.4	47.3
24/10/2025 17:39	72.2	53.2	47.3
24/10/2025 17:54	71.5	51.5	47.3
24/10/2025 18:09	68.1	50.2	47.3
24/10/2025 18:24	68.6	51.5	47.3
24/10/2025 18:39	82.6	57.4	47.5
24/10/2025 18:54	72	52.4	47.5
24/10/2025 19:09	67.6	49.7	47
24/10/2025 19:24	61.9	49.5	46.4
24/10/2025 19:39	66.1	50	46.4
24/10/2025 19:54	67.6	50.3	46.1
24/10/2025 20:09	70	52	46
24/10/2025 20:24	57.6	48.1	45.6
24/10/2025 20:39	72.4	49.8	45.6
24/10/2025 20:54	72.6	49.4	46.3
24/10/2025 21:09	59.3	47.9	45.4
24/10/2025 21:24	70.9	53.7	46.7

Date & time	LAFmax [dB]	LAeq [dB]	LA90 [dB]
24/10/2025 21:39	63.4	47.9	45.3
24/10/2025 21:54	63.1	48.1	45.2
24/10/2025 22:09	60.4	47.4	45.1
24/10/2025 22:24	70.1	49.2	45.3
24/10/2025 22:39	63.8	48.1	45
24/10/2025 22:54	59.1	46.5	44.2
24/10/2025 23:09	61.4	47.4	44.9
24/10/2025 23:24	62.3	48.9	45
24/10/2025 23:39	60.9	47.2	44
24/10/2025 23:54	86.8	58.8	43.9
25/10/2025 00:09	74.6	47.3	43.6
25/10/2025 00:24	58.7	46.1	43.2
25/10/2025 00:39	57.3	46	43.8
25/10/2025 00:54	61.4	45.3	42.3
25/10/2025 01:09	59	45.6	43.2
25/10/2025 01:24	56.8	44.3	42.3
25/10/2025 01:39	63.4	46.4	43
25/10/2025 01:54	59.7	44.9	42.4
25/10/2025 02:09	56.1	44.6	42.4
25/10/2025 02:24	59.2	44.1	42.1
25/10/2025 02:39	58	44.6	42.3
25/10/2025 02:54	58.8	44	42
25/10/2025 03:09	56.5	43.8	41.7
25/10/2025 03:24	65.5	45.3	42.2
25/10/2025 03:39	57.5	44	42.2
25/10/2025 03:54	54.9	43.5	41.3
25/10/2025 04:09	55.5	44.2	42
25/10/2025 04:24	56.3	43.2	41.3
25/10/2025 04:39	50.3	43.3	42
25/10/2025 04:54	54.3	43.3	42.1
25/10/2025 05:09	56.1	44	42.2
25/10/2025 05:24	56.5	44.9	43.2
25/10/2025 05:39	52.9	44.2	42.6
25/10/2025 05:54	56.2	44.4	42.6
25/10/2025 06:09	57	44.1	42.1
25/10/2025 06:24	59.3	44.7	41
25/10/2025 06:39	60.3	44.3	41.2
25/10/2025 06:54	59.8	44.6	41.1
25/10/2025 07:09	58.5	45.6	42.4
25/10/2025 07:24	60.6	47.8	44.1
25/10/2025 07:39	68.6	49.1	43.5
25/10/2025 07:54	65.3	48.7	44.5
25/10/2025 08:09	69.6	49.5	44.4
25/10/2025 08:24	77.6	53	45.3
25/10/2025 08:39	59.7	47.9	46
25/10/2025 08:54	74.9	53.4	45.9
25/10/2025 09:09	70	50.4	46.8
25/10/2025 09:24	68.3	49.6	47.1
25/10/2025 09:39	65.4	49.3	46.4
25/10/2025 09:54	73.2	50.2	46.6
25/10/2025 10:09	74	51	46.3
25/10/2025 10:24	67.5	50.5	47.4
25/10/2025 10:39	77.2	52.1	46.3

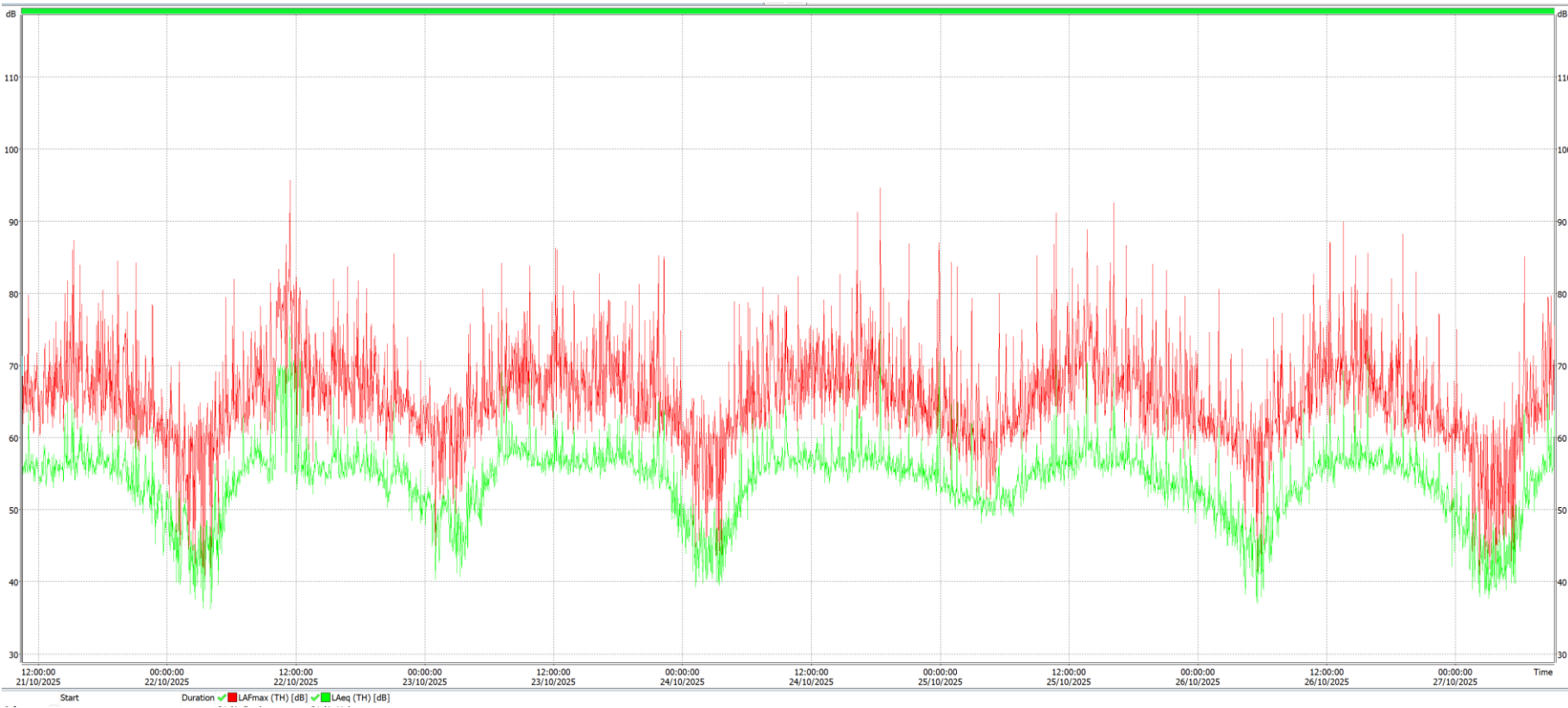
Date & time	LAFmax [dB]	LAeq [dB]	LA90 [dB]
25/10/2025 10:54	74.1	52.1	46.6
25/10/2025 11:09	65.6	49.2	46.5
25/10/2025 11:24	66.7	50	46.1
25/10/2025 11:39	67.1	50.4	45.9
25/10/2025 11:54	73.6	52.3	45.8
25/10/2025 12:09	71.3	53.1	46.1
25/10/2025 12:24	69.4	49.8	45.2
25/10/2025 12:39	67.9	48.1	44.5
25/10/2025 12:54	87.1	56	45.2
25/10/2025 13:09	63.4	48.6	45.7
25/10/2025 13:24	75.4	53.8	46.7
25/10/2025 13:39	68.2	52.3	48.2
25/10/2025 13:54	98.3	68.5	48.1
25/10/2025 14:09	76.5	55	46.7
25/10/2025 14:24	71.7	52.1	47.5
25/10/2025 14:39	86.9	58.5	47.5
25/10/2025 14:54	60.9	49.7	47.4
25/10/2025 15:09	63.7	50.3	47.6
25/10/2025 15:24	71	52.1	47.6
25/10/2025 15:39	71.6	49.6	46.2
25/10/2025 15:54	85.9	57.4	46.5
25/10/2025 16:09	72.1	51.3	47
25/10/2025 16:24	72.7	53.9	46.5
25/10/2025 16:39	65.3	49.7	46.2
25/10/2025 16:54	75.3	50.2	46.2
25/10/2025 17:09	72.5	52.1	47.7
25/10/2025 17:24	69	51.2	47.8
25/10/2025 17:39	74.7	52	47.6
25/10/2025 17:54	67.5	49.7	47.1
25/10/2025 18:09	69	52.6	47.5
25/10/2025 18:24	78.8	53.7	47.1
25/10/2025 18:39	65.2	49.2	45.5
25/10/2025 18:54	60.1	48.4	45.5
25/10/2025 19:09	67.7	49.4	45.2
25/10/2025 19:24	62.3	47.8	44.8
25/10/2025 19:39	59.5	47.7	44.3
25/10/2025 19:54	61.8	47.3	43.7
25/10/2025 20:09	74.8	48.1	43.2
25/10/2025 20:24	64.2	47.4	43.7
25/10/2025 20:39	61.4	47.4	44
25/10/2025 20:54	69.4	46.8	43.2
25/10/2025 21:09	65.2	46.5	42.8
25/10/2025 21:24	61.9	47.5	43.2
25/10/2025 21:39	65.9	47.4	43.5
25/10/2025 21:54	71.6	48.1	43.4
25/10/2025 22:09	64.1	46.8	43.8
25/10/2025 22:24	66.8	49.8	44.6
25/10/2025 22:39	59.3	46.1	42.8
25/10/2025 22:54	59.6	45.9	42.9
25/10/2025 23:09	64.1	45.8	42.4
25/10/2025 23:24	68.7	48.5	42.5
25/10/2025 23:39	62.1	46	43
25/10/2025 23:54	57.7	44.3	41.1

Date & time	LAFmax [dB]	LAeq [dB]	LA90 [dB]
26/10/2025 00:09	56.5	44.8	41
26/10/2025 00:24	68.9	47.8	41.4
26/10/2025 00:39	58	44	40.5
26/10/2025 00:54	58.2	44.1	40.1
26/10/2025 01:09	61.5	44	40.1
26/10/2025 01:24	59.6	44.2	40.7
26/10/2025 01:39	60.3	44.8	39
26/10/2025 01:54	59.9	43.6	38.7
26/10/2025 02:09	77.3	48.2	39.5
26/10/2025 02:24	56.2	42.9	39
26/10/2025 02:39	60.1	42.5	38.5
26/10/2025 02:54	56.9	41.3	37.8
26/10/2025 03:09	69.7	43.7	38.1
26/10/2025 03:24	57.4	41.8	38.2
26/10/2025 03:39	59	41.9	38.6
26/10/2025 03:54	55.4	41.8	39
26/10/2025 04:09	55.2	40.7	38
26/10/2025 04:24	56	40.9	38.1
26/10/2025 04:39	57.6	40.8	38.4
26/10/2025 04:54	56.4	41.4	39
26/10/2025 05:09	57	41.1	38.3
26/10/2025 05:24	59.4	40.7	37.3
26/10/2025 05:39	54.5	40.6	38.2
26/10/2025 05:54	60.4	41.3	39.3
26/10/2025 06:09	53.7	41.5	40
26/10/2025 06:24	54	41.6	39.1
26/10/2025 06:39	57.4	42.5	39.3
26/10/2025 06:54	58	41.5	39.2
26/10/2025 07:09	56.9	42.2	39.5
26/10/2025 07:24	64.6	44.9	39.7
26/10/2025 07:39	61.7	43.4	40.2
26/10/2025 07:54	68.5	48.5	41.2
26/10/2025 08:09	64.2	45	41.1
26/10/2025 08:24	58.6	44.9	42.6
26/10/2025 08:39	63.9	48.6	43.7
26/10/2025 08:54	68.5	49	43.7
26/10/2025 09:09	66	49	44.5
26/10/2025 09:24	62.1	46.6	43.9
26/10/2025 09:39	58.1	45.9	43.2
26/10/2025 09:54	66.4	49.9	44.4
26/10/2025 10:09	71.9	48.4	45
26/10/2025 10:24	66.3	48.7	45.4
26/10/2025 10:39	58.8	48.3	46.1
26/10/2025 10:54	70.1	50.1	47.3
26/10/2025 11:09	72.1	50.6	47.5
26/10/2025 11:24	73.4	53.5	47.4
26/10/2025 11:39	71.8	50	46.1
26/10/2025 11:54	66.7	51.1	47.8
26/10/2025 12:09	67.5	50.5	47.5
26/10/2025 12:24	82.5	56.4	47.6
26/10/2025 12:39	79.3	54.5	46.3
26/10/2025 12:54	71.6	51.2	46.7
26/10/2025 13:09	72.8	51	47.4

Date & time	LAFmax [dB]	LAeq [dB]	LA90 [dB]
26/10/2025 13:24	63	49.3	47.2
26/10/2025 13:39	81.2	57	47.1
26/10/2025 13:54	66.8	49.8	47.2
26/10/2025 14:09	63.1	49.4	47.1
26/10/2025 14:24	75.8	50.5	47.2
26/10/2025 14:39	70.7	51.7	47.9
26/10/2025 14:54	75	53.7	48
26/10/2025 15:09	68.6	50.4	47.7
26/10/2025 15:24	75.8	50.5	47.8
26/10/2025 15:39	71.3	51.6	47.5
26/10/2025 15:54	66	52.1	48.3
26/10/2025 16:09	69.9	50.6	48
26/10/2025 16:24	69.8	50.8	48.1
26/10/2025 16:39	68.9	51.1	48.1
26/10/2025 16:54	77.8	51.5	48.8
26/10/2025 17:09	66.7	52	48.8
26/10/2025 17:24	68.2	50.9	47
26/10/2025 17:39	76.4	50.9	47.2
26/10/2025 17:54	72.3	51.4	46.7
26/10/2025 18:09	71	52.4	47.2
26/10/2025 18:24	58.7	48.6	46.4
26/10/2025 18:39	68	51.4	46.4
26/10/2025 18:54	59.2	49.1	46.3
26/10/2025 19:09	76.4	50.8	45.7
26/10/2025 19:24	62.5	48.4	46.3
26/10/2025 19:39	59.3	48.4	46.4
26/10/2025 19:54	77	52.4	47.6
26/10/2025 20:09	73.8	55.3	47.4
26/10/2025 20:24	70.8	50.8	46.1
26/10/2025 20:39	69.4	50	46.3
26/10/2025 20:54	61.7	48.7	45.5
26/10/2025 21:09	72.7	50.9	45.2
26/10/2025 21:24	59	48.5	45.3
26/10/2025 21:39	61.7	47.3	44.6
26/10/2025 21:54	60	46.6	43.7
26/10/2025 22:09	61	46.8	43.9
26/10/2025 22:24	58.7	47.1	44.1
26/10/2025 22:39	61.5	47	43.5
26/10/2025 22:54	57.2	44.9	42.8
26/10/2025 23:09	64.3	45.2	42.2
26/10/2025 23:24	62.8	46.3	43.4
26/10/2025 23:39	58.1	44.2	41
26/10/2025 23:54	60.3	43.9	40.7
27/10/2025 00:09	61	43.8	41.2
27/10/2025 00:24	61.4	43.6	40.5
27/10/2025 00:39	61.1	44.3	40.5
27/10/2025 00:54	57.1	42	39.5
27/10/2025 01:09	62.7	43.9	38.5
27/10/2025 01:24	59.2	41.4	38.5
27/10/2025 01:39	62.4	40.7	37.6
27/10/2025 01:54	57.6	41.6	38.8
27/10/2025 02:09	53.2	41.1	39.1
27/10/2025 02:24	48.7	39.7	37.7

Date & time	LAFmax [dB]	LAeq [dB]	LA90 [dB]
27/10/2025 02:39	57	40	38
27/10/2025 02:54	52.8	39.6	36.5
27/10/2025 03:09	49.3	39	37.2
27/10/2025 03:24	49.8	39.6	37.5
27/10/2025 03:39	54.3	40.4	38
27/10/2025 03:54	54.6	39.7	37.3
27/10/2025 04:09	54.9	40.7	38.2
27/10/2025 04:24	59.5	40.1	38.1
27/10/2025 04:39	58.6	40.5	38.2
27/10/2025 04:54	49.8	40.5	38.7
27/10/2025 05:09	60.1	42.4	39.3
27/10/2025 05:24	54.5	40.8	38.4
27/10/2025 05:39	54.4	41.9	39.3
27/10/2025 05:54	59.2	41.6	39.1
27/10/2025 06:09	61.5	43.1	40.4
27/10/2025 06:24	66.2	46.2	41.7
27/10/2025 06:39	64.8	45.8	42.5
27/10/2025 06:54	59.4	45.4	42.8
27/10/2025 07:09	59.9	48.2	45.5
27/10/2025 07:24	58.4	46.8	44.3
27/10/2025 07:39	68.3	49.5	45.1
27/10/2025 07:54	60.9	49.6	46.1
27/10/2025 08:09	62.2	49	46.3
27/10/2025 08:24	70.6	51.3	47.3
27/10/2025 08:39	78	58.5	47.4
27/10/2025 08:54	66.7	51.3	46.5
27/10/2025 09:09	76.2	53.3	47
27/10/2025 09:24	75.3	54.1	46
27/10/2025 09:39	69.9	52.1	46.9
27/10/2025 09:54	78.7	51.9	47.5
27/10/2025 10:09	77.5	53.8	49
27/10/2025 10:24	81.6	59.5	48.2
27/10/2025 10:39	71.1	51.4	47.6
27/10/2025 10:54	78.9	53.2	48.3
27/10/2025 11:09	66.6	52.5	47.7

APPENDIX 2 – Time history chart at front façade



APPENDIX 3 – Calculations of façade sound insulation

BS8233:2014 Annexe G2 - Rigorous Calculation of Façade Sound Insulation							
Flat 001 Living Room							
Facade area		21.1					
Window Area		7.4					
Ceiling/Roof		0.0					
Room Vol.		69.6					
Frequency (Hz)		125	250	500	1000	2000	L _{Aeq}
Measured Leq		58.5	54.3	49.5	48.5	44.7	53.1
Ventilator Dne	Trickle vent	25	25	26	32	35	
Window R	4/16/4	21	17	25	35	37	
Wall R	Masonry Cavity	40	44	45	51	56	
Ceiling/Roof R		33	39	45	50	54	
Absorption		11	14	16	16	15	
Vent		0.001498	0.001498	0.001190	0.000299	0.000150	
		-28.2	-28.2	-29.2	-35.2	-38.2	
Windows		0.002784	0.006994	0.001109	0.000111	0.000070	
		-25.6	-21.6	-29.6	-39.6	-41.6	
Ext. Wall		0.000065	0.000026	0.000021	0.000005	0.000002	
		-41.9	-45.9	-46.9	-52.9	-57.9	
Ceiling/roof		0.000000	0.000000	0.000000	0.000000	0.000000	
		-66.2	-72.2	-78.2	-83.2	-87.2	
Composite R		-23.6	-20.7	-26.3	-33.8	-36.5	
Abs. Correction		2.8	1.8	1.2	1.2	1.5	
Leq (int)		37.7	35.4	24.4	15.9	9.7	
A-Weighting		-16.1	-8.6	-3.2	0	1.2	
L _{Aeq} (internal)		21.6	26.8	21.2	15.9	10.9	29.0
Façade Atten.		24.1	dB				
		External	Internal	Guideline			
	L _{Aeq} ,16hr	54	30	35			

BS8233:2014 Annexe G2 - Rigorous Calculation of Façade Sound Insulation							
Flat 001/201 Bedroom							
Facade area		8.6					
Window Area		2.0					
Ceiling/Roof		0.0					
Room Vol.		31.2					
Frequency (Hz)		125	250	500	1000	2000	L _{Aeq}
Measured Leq		56.7	55.7	50.9	49.4	44.1	53.8
Ventilator Dne	GAV AWW39	38	37	38	39	47	
Window R	6/16/6.8	21	28	37	48	48	
Wall R	Masonry Cavity	40	44	45	51	56	
Ceiling/Roof R		33	39	45	50	54	
Absorption		11	14	16	16	15	
Vent		0.000184	0.000232	0.000184	0.000146	0.000023	
		-37.4	-36.4	-37.4	-38.4	-46.4	
Windows		0.001845	0.000368	0.000046	0.000004	0.000004	
		-27.3	-34.3	-43.3	-54.3	-54.3	
Ext. Wall		0.000077	0.000031	0.000024	0.000006	0.000002	
		-41.2	-45.2	-46.2	-52.2	-57.2	
Ceiling/roof		0.000001	0.000000	0.000000	0.000000	0.000000	
		-62.4	-68.4	-74.4	-79.4	-83.4	
Composite R		-26.8	-32.0	-35.9	-38.1	-45.4	
Abs. Correction		-1.1	-2.1	-2.7	-2.7	-2.4	
Leq (int)		28.8	21.5	12.3	8.7	-3.7	
A-Weighting		-16.1	-8.6	-3.2	0	1.2	
L _{Aeq} (internal)		12.7	12.9	9.1	8.7	-2.5	17.4
Façade Atten.		36.4	dB				
		External	Internal	Guideline			
	L _{Aeq} ,8hr	55	19	30			
	L _{Amax}	77	41	45			

BS8233:2014 Annexe G2 - Rigorous Calculation of Façade Sound Insulation							
Flat 002 Living Room							
Facade area		16.8					
Window Area		7.4					
Ceiling/Roof		0.0					
Room Vol.		62.4					
Frequency (Hz)		125	250	500	1000	2000	L _{Aeq}
Measured Leq		59.0	57.2	55.3	52.9	48.8	57.4
Ventilator Dne	GAV AWV39	38	37	38	39	47	
Window R	4/16/4	21	17	25	35	37	
Wall R	Masonry Cavity	40	44	45	51	56	
Ceiling/Roof R		33	39	45	50	54	
Absorption		11	14	16	16	15	
Vent		0.000094	0.000119	0.000094	0.000075	0.000012	
		-40.3	-39.3	-40.3	-41.3	-49.3	
Windows		0.003497	0.008783	0.001392	0.000139	0.000088	
		-24.6	-20.6	-28.6	-38.6	-40.6	
Ext. Wall		0.000056	0.000022	0.000018	0.000004	0.000001	
		-42.5	-46.5	-47.5	-53.5	-58.5	
Ceiling/roof		0.000000	0.000000	0.000000	0.000000	0.000000	
		-65.3	-71.3	-77.3	-82.3	-86.3	
Composite R		-24.4	-20.5	-28.2	-36.6	-40.0	
Abs. Correction		1.8	0.8	0.2	0.2	0.5	
Leq (int)		36.4	37.5	27.3	16.5	9.3	
A-Weighting		-16.1	-8.6	-3.2	0	1.2	
L _{Aeq} (internal)		20.3	28.9	24.1	16.5	10.5	30.8
Façade Atten.		26.6	dB				
		External	Internal	Guideline			
	L _{Aeq} , 16hr	58	31	35			

BS8233:2014 Annexe G2 - Rigorous Calculation of Façade Sound Insulation							
Flat 002 Bedroom							
Facade area		8.6					
Window Area		2.0					
Ceiling/Roof		0.0					
Room Vol.		31.2					
Frequency (Hz)		125	250	500	1000	2000	L _{Aeq}
Measured Leq		53.3	49.0	41.8	42.0	36.0	46.4
Ventilator Dne	Trickle vent	25	25	26	32	35	
Window R	4/16/4	21	17	25	35	37	
Wall R	Masonry Cavity	40	44	45	51	56	
Ceiling/Roof R		33	39	45	50	54	
Absorption		11	14	16	16	15	
Vent		0.003673	0.003673	0.002917	0.000733	0.000367	
		-24.4	-24.4	-25.4	-31.4	-34.4	
Windows		0.001845	0.004635	0.000735	0.000073	0.000046	
		-27.3	-23.3	-31.3	-41.3	-43.3	
Ext. Wall		0.000077	0.000031	0.000024	0.000006	0.000002	
		-41.2	-45.2	-46.2	-52.2	-57.2	
Ceiling/roof		0.000001	0.000000	0.000000	0.000000	0.000000	
		-62.4	-68.4	-74.4	-79.4	-83.4	
Composite R		-22.5	-20.8	-24.3	-30.9	-33.8	
Abs. Correction		-1.1	-2.1	-2.7	-2.7	-2.4	
Leq (int)		29.7	26.1	14.8	8.4	-0.3	
A-Weighting		-16.1	-8.6	-3.2	0	1.2	
L _{Aeq} (internal)		13.6	17.5	11.6	8.4	0.9	20.1
Façade Atten.		26.4	dB				
		External	Internal	Guideline			
	L _{Aeq} ,8hr	47	21	30			
	L _{Amax}	69	43	45			

BS8233:2014 Annexe G2 - Rigorous Calculation of Façade Sound Insulation							
Flat 101/201 Living Room							
Facade area		14.2					
Window Area		5.4					
Ceiling/Roof		0.0					
Room Vol.		74.4					
Frequency (Hz)		125	250	500	1000	2000	L _{Aeq}
Measured Leq		59.0	57.2	55.3	52.9	48.8	57.4
Ventilator Dne	GAV AWV39	38	37	38	39	47	
Window R	4/16/4	21	17	25	35	37	
Wall R	Masonry Cavity	40	44	45	51	56	
Ceiling/Roof R		33	39	45	50	54	
Absorption		11	14	16	16	15	
Vent		0.000112	0.000140	0.000112	0.000089	0.000014	
		-39.5	-38.5	-39.5	-40.5	-48.5	
Windows		0.003019	0.007582	0.001202	0.000120	0.000076	
		-25.2	-21.2	-29.2	-39.2	-41.2	
Ext. Wall		0.000062	0.000025	0.000020	0.000005	0.000002	
		-42.1	-46.1	-47.1	-53.1	-58.1	
Ceiling/roof		0.000000	0.000000	0.000000	0.000000	0.000000	
		-64.5	-70.5	-76.5	-81.5	-85.5	
Composite R		-25.0	-21.1	-28.8	-36.7	-40.4	
Abs. Correction		1.1	0.1	-0.5	-0.5	-0.2	
Leq (int)		35.1	36.2	26.0	15.7	8.1	
A-Weighting		-16.1	-8.6	-3.2	0	1.2	
L _{Aeq} (internal)		19.0	27.6	22.8	15.7	9.3	29.5
Façade Atten.		27.9 dB					
		External	Internal	Guideline			
	L _{Aeq} ,16hr	58	30	35			

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Flat 101 Bedroom							
Facade area		7.4					
Window Area		2.4					
Ceiling/Roof		0.0					
Room Vol.		26.4					
Frequency (Hz)		125	250	500	1000	2000	L _{Aeq}
Measured Leq		53.3	49.0	41.8	42.0	36.0	46.4
Ventilator Dne	Trickle vent	25	25	26	32	35	
Window R	4/16/4	21	17	25	35	37	
Wall R	Masonry Cavity	40	44	45	51	56	
Ceiling/Roof R		33	39	45	50	54	
Absorption		11	14	16	16	15	
Vent		0.004268	0.004268	0.003390	0.000851	0.000427	
		-23.7	-23.7	-24.7	-30.7	-33.7	
Windows		0.002573	0.006462	0.001024	0.000102	0.000065	
		-25.9	-21.9	-29.9	-39.9	-41.9	
Ext. Wall		0.000067	0.000027	0.000021	0.000005	0.000002	
		-41.7	-45.7	-46.7	-52.7	-57.7	
Ceiling/roof		0.000001	0.000000	0.000000	0.000000	0.000000	
		-61.7	-67.7	-73.7	-78.7	-82.7	
Composite R		-21.6	-19.7	-23.5	-30.2	-33.1	
Abs. Correction		-1.7	-2.8	-3.3	-3.3	-3.1	
Leq (int)		30.0	26.5	15.0	8.5	-0.2	
A-Weighting		-16.1	-8.6	-3.2	0	1.2	
L _{Aeq} (internal)		13.9	17.9	11.8	8.5	1.0	20.4
Façade Atten.		26.0	dB				
		External	Internal	Guideline			
	L _{Aeq} ,8hr	47	21	30			
	L _{Amax}	69	43	45			

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Flat 102 Living Room							
Facade area		10.8					
Window Area		5.4					
Ceiling/Roof		0.0					
Room Vol.		72					
Frequency (Hz)		125	250	500	1000	2000	L _{Aeq}
Measured Leq		59.0	57.2	55.3	52.9	48.8	57.4
Ventilator Dne	Trickle vent	25	25	26	32	35	
Window R	4/16/4	21	17	25	35	37	
Wall R	Masonry Cavity	40	44	45	51	56	
Ceiling/Roof R		33	39	45	50	54	
Absorption		11	14	16	16	15	
Vent		0.002925	0.002925	0.002324	0.000584	0.000293	
		-25.3	-25.3	-26.3	-32.3	-35.3	
Windows		0.003968	0.009967	0.001580	0.000158	0.000100	
		-24.0	-20.0	-28.0	-38.0	-40.0	
Ext. Wall		0.000050	0.000020	0.000016	0.000004	0.000001	
		-43.0	-47.0	-48.0	-54.0	-59.0	
Ceiling/roof		0.000000	0.000000	0.000000	0.000000	0.000000	
		-63.3	-69.3	-75.3	-80.3	-84.3	
Composite R		-21.6	-18.9	-24.1	-31.3	-34.1	
Abs. Correction		-0.1	-1.1	-1.7	-1.7	-1.4	
Leq (int)		37.3	37.2	29.5	19.9	13.3	
A-Weighting		-16.1	-8.6	-3.2	0	1.2	
L _{Aeq} (internal)		21.2	28.6	26.3	19.9	14.5	31.5
Façade Atten.		25.9 dB					
		External	Internal	Guideline			
	L _{Aeq} ,16hr	58	32	35			

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Flat 102 Bedroom							
Facade area		6.7					
Window Area		1.5					
Ceiling/Roof		0.0					
Room Vol.		28.8					
Frequency (Hz)		125	250	500	1000	2000	LAeq
Measured Leq		56.7	55.7	50.9	49.4	44.1	53.8
Ventilator Dne	GAV AWV39	38	37	38	39	47	
Window R	6/16/6.8	21	28	37	48	48	
Wall R	Masonry Cavity	40	44	45	51	56	
Ceiling/Roof R		33	39	45	50	54	
Absorption		11	14	16	16	15	
Vent		0.000236	0.000297	0.000236	0.000188	0.000030	
		-36.3	-35.3	-36.3	-37.3	-45.3	
Windows		0.001776	0.000354	0.000045	0.000004	0.000004	
		-27.5	-34.5	-43.5	-54.5	-54.5	
Ext. Wall		0.000077	0.000031	0.000025	0.000006	0.000002	
		-41.1	-45.1	-46.1	-52.1	-57.1	
Ceiling/roof		0.000001	0.000000	0.000000	0.000000	0.000000	
		-61.3	-67.3	-73.3	-78.3	-82.3	
Composite R		-26.8	-31.7	-35.2	-37.0	-44.5	
Abs. Correction		-2.1	-3.2	-3.8	-3.8	-3.5	
Leq (int)		27.7	20.8	12.0	8.6	-3.9	
A-Weighting		-16.1	-8.6	-3.2	0	1.2	
LAeq (internal)		11.6	12.2	8.8	8.6	-2.7	16.7
Façade Atten.		37.1	dB				
		External	Internal	Guideline			
	LAeq,8hr	55	18	30			
	LAmx	77	40	45			

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Flat 103/202 Living Room							
Facade area		17.5					
Window Area		6.2					
Ceiling/Roof		0.0					
Room Vol.		62.4					
Frequency (Hz)		125	250	500	1000	2000	L _{Aeq}
Measured Leq		58.5	54.3	49.5	48.5	44.7	53.1
Ventilator Dne	Trickle vent	25	25	26	32	35	
Window R	4/16/4	21	17	25	35	37	
Wall R	Masonry Cavity	40	44	45	51	56	
Ceiling/Roof R		33	39	45	50	54	
Absorption		11	14	16	16	15	
Vent		0.001806	0.001806	0.001435	0.000360	0.000181	
		-27.4	-27.4	-28.4	-34.4	-37.4	
Windows		0.002813	0.007065	0.001120	0.000112	0.000071	
		-25.5	-21.5	-29.5	-39.5	-41.5	
Ext. Wall		0.000065	0.000026	0.000020	0.000005	0.000002	
		-41.9	-45.9	-46.9	-52.9	-57.9	
Ceiling/roof		0.000000	0.000000	0.000000	0.000000	0.000000	
		-65.4	-71.4	-77.4	-82.4	-86.4	
Composite R		-23.3	-20.5	-25.9	-33.2	-36.0	
Abs. Correction		2.0	1.0	0.4	0.4	0.7	
Leq (int)		37.2	34.7	24.0	15.7	9.4	
A-Weighting		-16.1	-8.6	-3.2	0	1.2	
L _{Aeq} (internal)		21.1	26.1	20.8	15.7	10.6	28.5
Façade Atten.		24.6	dB				
		External	Internal	Guideline			
	L _{Aeq} ,16hr	54	29	35			

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Flat 103/202 Bedroom							
Facade area		7.4					
Window Area		2.9					
Ceiling/Roof		0.0					
Room Vol.		28.8					
Frequency (Hz)		125	250	500	1000	2000	L _{Aeq}
Measured Leq		53.3	49.0	41.8	42.0	36.0	46.4
Ventilator Dne	Trickle vent	25	25	26	32	35	
Window R	4/16/4	21	17	25	35	37	
Wall R	Masonry Cavity	40	44	45	51	56	
Ceiling/Roof R		33	39	45	50	54	
Absorption		11	14	16	16	15	
Vent		0.004268	0.004268	0.003390	0.000851	0.000427	
		-23.7	-23.7	-24.7	-30.7	-33.7	
Windows		0.003109	0.007809	0.001238	0.000124	0.000078	
		-25.1	-21.1	-29.1	-39.1	-41.1	
Ext. Wall		0.000061	0.000024	0.000019	0.000005	0.000002	
		-42.2	-46.2	-47.2	-53.2	-58.2	
Ceiling/roof		0.000001	0.000000	0.000000	0.000000	0.000000	
		-61.7	-67.7	-73.7	-78.7	-82.7	
Composite R		-21.3	-19.2	-23.3	-30.1	-33.0	
Abs. Correction		-1.7	-2.8	-3.3	-3.3	-3.1	
Leq (int)		30.3	27.0	15.2	8.6	0.0	
A-Weighting		-16.1	-8.6	-3.2	0	1.2	
L _{Aeq} (internal)		14.2	18.4	12.0	8.6	1.2	20.8
Façade Atten.		25.6	dB				
		External	Internal	Guideline			
	L _{Aeq} ,8hr	47	21	30			
	L _{Amax}	69	43	45			