AIRTIGHT & NOISECHECK LIMITED

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NOISE IMPACT ASSESSMENT FOR

PUNCH PARTNERSHIPS (PML) LTD

SITE ADDRESS

THE CALTHORPE ARMS PUBLIC HOUSE
252 GRAYS INN ROAD
HOLBORN
LONDON
WC1X 8SR

ASSESSMENT DATE: 29TH SEPTEMBER – 1ST OCTOBER 2023

REPORT DATE: 22ND NOVEMBER 2023

Acoustic Engineer:

Testing Date: 29th Sept – 1st October 2023

Michael Vine

AIRTIGHT & NOISECHECK BUILDING ACOUSTIC TESTING

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Customer Name: Punch Partnerships (PML) Ltd

Testing Date: 29th Sept – 1st Oct 2023
Report Date: 22nd November 2023

Site Address:
The Calthorpe Arms Public House
252 Grays Inn Road
Holborn
London
WC1X 8SR

Acoustic Engineer:
Mr. Michael Vine

Equipment used:

Norsonic Environmental Analyser 121 – Serial No 31375 Calibration due December 2024

Analyser complies with the following standards:
IEC 60651 type 1
IEC 60804 type 1
IEC 61260 class 1
IEC 225
ANSI S1.4-1985 type 1
ANSI1.43 -1997 type 1
ANSI S1.11-1986 order 3type1D
DIN 45 657
Norsonic Production Standard set for the Nor121

Measurement Microphones (Gras 40AF) – Serial No 51465 & Nor 1225 – serial No 72933, - Calibration due July 2024

Acoustic Calibrator - (Type 1251) – Serial No 31652, Calibration due July 2024

Measurement Procedure:

An unattended assessment measuring the current acoustic climate over a 48hour period was undertaken in 2 x external microphone locations to determine the ambient noise levels at the proposed façades of the proposed development site, the upper floors of The Calthorpe Arms Public House. The 48hour assessment took place between Friday 29th September & Sunday 1st October 2023 starting at 1000hrs, the public house was in use during this time period and was functioning as normal. The local road network was busy throughout the assessment period.

The unattended assessment took measurements from the public house, public house plant located to the rear of the building and the local road network. The microphones were positioned at the building façade both at the front and the rear of the building to assess the entire local area.

The microphone at the front façade was positioned 1m from the façade so a -3dB acoustic feature correction will be applied to the values to account for reflection. The rear microphone was located in free field conditions.

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Assessment Criteria:

The National Planning Policy Framework (NPPF) came into effect in March 2012 and was updated published in July 2021. It replaced other documents such as PPG24. The NPPF and provides a number of objectives and aims that are directed towards avoiding significant adverse impacts and reducing others on quality of life and health. This document states that:

Paragraph 174 states Planning policies and decisions should contribute to and enhance the natural and local environment by:

e) preventing new and existing development from contributing to, being put at unacceptable risk from, or being adversely affected by, unacceptable levels of soil, air, water or noise pollution or land instability. Development should, wherever possible, help to improve local environmental conditions such as air and water quality, considering relevant information such as river basin management plans.

Paragraph **185.** Planning policies and decisions should also ensure that new development is appropriate for its location considering the likely effects (including cumulative effects) of pollution on health, living conditions and the natural environment, as well as the potential sensitivity of the site or the wider area to impacts that could arise from the development. In doing so they should:

(a) mitigate and reduce to a minimum potential adverse impacts resulting from noise from new development – and avoid noise giving rise to significant adverse impacts on health and the quality of life [65];
(b) identify and protect tranquil areas which have remained relatively undisturbed by noise and are prized for their recreational and amenity value for this reason.

187. Planning policies and decisions should ensure that new development can be integrated effectively with existing businesses and community facilities (such as places of worship, pubs, music venues and sports clubs). Existing businesses and facilities should not have unreasonable restrictions placed on them as a result of development permitted after they were established. Where the operation of an existing business or community facility could have a significant adverse effect on new development (including changes of use) in its vicinity, the applicant (or 'agent of change') should be required to provide suitable mitigation before the development has been completed.

The Planning Practice Guidance has guidance on noise, date 22nd July 2019 and also has the noise hierarchy table as shown below. Paragraphs 009 & 011 are refenced later in this report.

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Response	Examples of outcomes	Increasing effect level	Action
No Observed Effect Level			
Not present	No Effect	No Observed Effect	No specific measures required
No Observed Adverse Effect Level			
Present and not intrusive	Noise can be heard, but does not cause any change in behaviour, attitude or other physiological response. Can slightly affect the acoustic character of the area but not such that there is a change in the quality of life.	No Observed Adverse Effect	No specific measures required
Lowest Observed Adverse Effect Level			
Present and intrusive	Noise can be heard and causes small changes in behaviour, attitude or other physiological response, e.g. turning up volume of television; speaking more loudly; where there is no alternative ventilation, having to close windows for some of the time because of the noise. Potential for some reported sleep disturbance. Affects the acoustic character of the area such that there is a small actual or perceived change in the quality of life.	Observed Adverse Effect	Mitigate and reduce to a minimum
Significant Observed Adverse Effect Level			
Present and disruptive	The noise causes a material change in behaviour, attitude or other physiological response, e.g. avoiding certain activities during periods of intrusion; where there is no alternative ventilation, having to keep windows closed most of the time because of the noise. Potential for sleep disturbance resulting in difficulty in getting to sleep, premature awakening and difficulty in getting back to sleep. Quality of life diminished due to change in acoustic character of the area.	Significant Observed Adverse Effect	Avoid
Present and very disruptive	Extensive and regular changes in behaviour, attitude or other physiological response and/or an inability to mitigate effect of noise leading to psychological stress, e.g. regular sleep deprivation/awakening; loss of appetite, significant, medically definable harm, e.g. auditory and non-auditory.	Unacceptable Adverse Effect	Prevent

NOEL – No Observed Effect Level This is the level below which no effect can be detected. In simple terms, below this level, there is no detectable effect on health and quality of life due to noise.

LOAEL – Lowest Observed Adverse Effect Level This is the level above which adverse effects on health and quality of life can be detected.

SOAEL – Significant Observed Adverse Effect Level This is the level above which significant adverse effects on health and quality of life occur.

The NPSE (Noise Policy Statement for England) states the following aims with respect to noise policy:

Through the effective management and control of environmental, neighbour and neighbourhood noise within the context of the Government policy on sustainable development:

avoid significant adverse impacts on health and quality of life;
mitigate and minimise adverse impacts on health and quality of life; and
where possible, contribute to the improvement of health and quality of life.

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PROPG: PLANNING & NOISE (2017) NEW RESIDENTIAL DEVELOPMENT [PROPG 2017]
The ProPG Planning & Noise document was published in 2017, its development supported by the Institute of Acoustics, the Association of Noise Consultants, and the Chartered Institute of Environmental Health. The aim of the document is to provide practitioners with guidance on a recommended approach to the management of noise within the planning system in England.

ProPG advocates a systematic, proportionate risk-based, 2 stage approach which:

1. Encourages early consideration of noise issues;
2. Facilitates straightforward accelerated decision making for lower risk sites;
3. Assists proper consideration of noise issues where the acoustic environment is challenging.

A summary of the overall ProPG approach is included in Appendix B. The two sequential stages of the overall approach are:

1. Stage 1 – an initial noise risk assessment of the proposed development site; and
2. Stage 2 – a systematic consideration of four key elements.

The four key elements to be undertaken in parallel during Stage 2 are:

1. Element 1 – demonstrating a "Good Acoustic Design Process";
2. Element 2 – observing internal "Noise Level Guidelines";
3. Element 3 – undertaking an "External Amenity Area Noise Assessment"; and
4. Element 4 – consideration of "Other Relevant Issues".

The approach is underpinned by the preparation and delivery of an "Acoustic Design Statement" [ADS]. The ADS is intended to conclude in the provision of one of the following four recommendations to the decision maker:

1. Planning consent may be granted without any need for noise conditions;
2. Planning consent may be granted subject to the inclusion of suitable noise conditions;
3. Planning consent should be refused on noise grounds in order to avoid significant adverse effects ("avoid"); or
4. Planning consent should be refused on noise grounds in order to prevent unacceptable adverse effects ("prevent").

The overall ProPG 2017 approach is intended for implementation with projects at an earlier stage than the subject of this report. This report provides a full noise mitigation strategy for the site, rather than an initial recommendation to the decision maker.

ProPG 2017 contains the most up to date guidance available on industry-wide adopted best-practise interpretation of relevant guidance regarding acceptable internal and external noise levels i.e. BS8233:2014 and WHO Guidelines.

WHO GUIDELINES FOR COMMUNITY NOISE (1999)
The guidance in this document recommends design criteria for internal noise levels within residential and commercial buildings. A summary of the recommended guidance is shown in Table 2.1. **Table 2.1 – Excerpt from WHO [dB ref. 20µPa]**

Criterion	Environment	Design range LAeq,T dB
Maintain speech intelligibility, avoid moderate annoyance, daytime & evening	Living Rooms	35
Prevent sleep disturbance, night time	Bedrooms	30

This guidance also states:

For a good sleep, it is believed that indoor sound pressure levels should not exceed approximately 45dB L_{Amax} more than 10-15 times a night (Vallet & Vernet 1991)

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For outdoor living areas, it is stated that:

To protect the majority of people from being seriously annoyed during the daytime, the outdoor sound level from steady, continuous noise should not exceed 55dB L_{Aeq} on balconies, terraces and in outdoor living areas. To protect the majority of people from being moderately annoyed during the daytime, the outdoor sound level should not exceed 50dB L_{Aeq}. Where it is practical and feasible, the lower outdoor sound level should be considered the maximum desirable sound level for new development

BS8233:2014 GUIDANCE ON SOUND INSULATION AND NOISE REDUCTION FOR BUILDINGS

The guidance in this document indicates acceptable noise levels for various activities within residential dwellings. A summary of the recommended guidance is shown in the following table as listed in BS8233: 2014

Activity	Location	07:00 to 23:00	23:00 to 07:00
Resting	Living Room	35 dB LAeq, 16 hour	-
Dining	Dining Room	40 dB LAeq, 16 hour	-
Sleeping (daytime resting)	Bedroom	35 dB LAeq, 16 hour	30 dB LAeq, 8 hour

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Executive Summary:

Airtight & Noisecheck Ltd were instructed by Punch Partnerships (PML) Ltd to undertake a Noise Impact Assessment (NIA) at The Calthorpe Arms Public House. A planning application is to be made to convert the upper floors of the public house into 3 x residential dwellings with 2 on the 2nd floor and 1 on the 3rd floor. The public house will remain at ground floor & 1st floor level. The building has listed status

The survey was undertaken for a 48hour period using two x external microphone locations to ascertain the current acoustic environment at the proposed site. The microphone locations were used to determine the impact of the following noise sources on the proposed dwellings:

1. Noise associated with the public house
2. Noise associated with the public house plant located to the rear of the building
3. Noise associated with vehicular traffic using Grays Inn Road (front) and Wren Street (side)

The proposed dwellings should not be adversely affected by the noise associated with the public house, public house plant or road traffic. The measured noise levels are consistent with a busy road network and in addition the calculations for the variety of noise sources also indicate that the future residents should not be adversely affected. The public house opening hours are 1200-2330hrs Monday to Friday, 1200-2300hrs on Saturday & 1200-2230hrs on Sunday. It is anticipated that the noise associated with the weekend period will be the worst-case scenario and therefore the assessment was undertaken over a weekend period.

By assessing the above noise sources, it is anticipated that a detailed approach to the proposals has been undertaken. The report clearly shows the required sound reductions needed for the scheme & these measures can be implemented to the residential dwellings to ensure the necessary criteria is achieved.

The conclusions of this report illustrate that the noise associated with the Public House or road traffic noise will not have an adverse impact on the proposed residential dwellings, providing that suitable mitigation measures are implemented to the proposed scheme. It is recommended that alternative ventilation (acoustic wall ventilation or similar (MVHR system not possible due to listed status)) be installed to the dwellings to avoid overheating and assist with ventilation when windows are closed. However, to strike a balance between noise, overheating & ventilation it is anticipated that future residents of the dwellings should be able to ventilate the dwellings naturally by opening windows on various elevations throughout the day time and night time period. This report also includes the overall level of sound reduction that would be required to the public house plant if measures are required to the plant. Alternatively, the glazing & façade treatments combined with the alternative ventilation will ensure the dwellings will be suitable mitigated internally.

The measures to be taken by the client should ensure a satisfactory acoustic climate for the future residents of the proposed dwelling. The noise associated with the road traffic is the dominant noise source and the roads were busy during the assessment period.

Acoustic Design Statement:

The building is listed and is situated in a predominantly residential area, with Grays Inn Road immediately to the Southwest & Wren Street to the North/Northeast. There are existing dwellings to the West, East & South with Grays Inn Road immediately to the South/Southwest. The measured levels at the front of the site are high and constant with road traffic for such an area. The levels to the rear are less with the plant in operation in this location (primarily the kitchen extraction system). Providing necessary mitigation measures are implemented to the building fabric then there is no reason to suggest that the future occupants cannot be adequately protected from the noise emissions apparent. The client will implement measures to reduce the noise impact.

1. Measures applied to the dwellings to improve overheating & ventilation
2. Install a robust glazing system to the dwelling to protect the residents from the external noise emissions when closed
3. Alternative ventilation installed to dwellings to ensure ventilation when windows closed
4. Possible mitigation of public house plant to reduce the noise break out levels at the façade
5. Upgrade the separating floor between the dwellings and public house to reduce sound transmission

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The initial risk assessment has indicated that the day time noise levels for the proposed dwellings at the front façade fall into the medium category for the day time and the medium to high category for the night time. The levels at the rear fall into the low category for the day time and medium category for the night time period. Pro PG states that for the low category *'At low noise levels, the site is likely to be acceptable from a noise perspective provided that a good acoustic design process is followed and is demonstrated in an ADS which confirms how the adverse impacts of noise will be mitigated and minimised in the finished development'*. Due to the nature of some of the noise sources however, mitigation measures are required to reduce the impact on the proposed dwellings. Sites falling into the medium category state that noise needs to be considered and a good acoustic design process is followed and is demonstrated in an ADS which confirms how the adverse impacts of noise will be mitigated and minimised, and which clearly demonstrate that a significant adverse noise impact
will be avoided in the finished development.

It is clear to see that the road traffic levels are relatively constant throughout the day time and night time period. In addition, the plant serving the public house appears to be constantly on during the day time only, but it is not the dominant noise source apparent. Therefore, consideration will have to be made to see if measures can be implemented to the plant such as acoustic enclosures, screening & moving the plant as it currently site directly outside a bedroom of one of the dwellings. Some plant will be relocated to the flat roof at the rear and as such should be mitigated accordingly. The lowest L_{A90} value has been included within this report, however it must be stated that the plant is not the dominant noise source apparent on site so a full BS4142: 2014 + A1: 2019 was not undertaken.

1 Objective:

1.1 To demonstrate that the noise associated with the road traffic noise & noise associated with The Gardeners public house will not have an adverse impact on the proposed residential scheme to be located at the 2nd & 3rd floors of the building. A planning application has been made to convert the upper floors of the listed building into 3 x residential dwellings, with 2 x dwellings on the 2nd floor and 1 x dwelling on the 3rd floor. The ground floor & 1st floor will remain as the public house.

1.2 In addition to the measured levels, the absolute level of reduction required for the plant located to the rear will be listed within this report. This will give an indication of the sound reduction required to ensure this noise is equal to or less than the background noise levels measured on site.

2 Calibration:

2.1 The measurement microphone was calibrated before and after testing in the measurement location and there were no drifts recorded during the assessments.

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3 Site Layout & Microphone Positions:

3.1 252 Grays Inn Road is located in Holborn, London. Holborn is a district in central London, which covers the south-eastern part of the London Borough of Camden and a part of the Ward of Farringdon Without in the City of London.

3.2 Grays Inn Road is located immediately to the Southwest of the site and is a busy through road for the area. It was very busy with vehicular traffic during both the day time and night time periods. Wren Street is located immediately to the North/Northwest of the site as the public house is situated on the corner of Grays Inn Road and Wren Street. Wren Street is a residential street with houses on one side and a park on the other. Some of the noise sensitive windows will face Wren Street.

3.3 The dwellings will comprise of 3 x dwellings, with 2 x dwellings at 2nd floor & 1 x dwelling at 3rd floor. The separating elements between the 1st floor public house & 2nd floor dwellings will also be required to be upgraded to meet the requirements of ADE, 2003 for sound insulation.

3.4 The Calthorpe Arms is a food led public house that doesn't have regular live or amplified music events. It is open between 1200-2330hrs Monday to Friday, 1200-2300hrs on Saturday and 1200-2230hrs on Sunday so it will not be in operation during the night time period.

The measurement microphones were located:

1- 2nd floor level of the public house facing Grays Inn Road. It was located circa 10m from the centre of Grays Inn Road. It was 1m from the building façade so a -3dB acoustic feature correction was applied to account for reflection.
2- 2nd floor flat roof of the public house facing the public house plant. It was located circa 2m from the plant location.

4 Weather Conditions:

4.1 The weather was dry & sunny during the measurement procedure; the temperature ranged between 12-20 degrees on Friday 29th September & 10-20degrees on Saturday 1st October. There was little to no cloud, with a small shower on Friday morning and some very light wind on Saturday.

5 Measurement Duration:

5.1 The continuous measurement was taken for 48hour period, the public house was open and in operation. The road traffic using the local road network was at normal levels and thus offer a fair reflection of the noise associated with the road network.

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6 Results:

6.1 The purpose of this measurement was to establish the levels associated with the road traffic noise and noise associated with the public house, both located to the West of the proposed dwellings. The levels will be compared to the necessary British Standards & relevant documents, also some bespoke measurements will be adopted.

$L_{Aeq\ 16hour\ \&\ 8hour}$ Noise Levels:

Mic Location	$L_{Aeq\ 16hour}$ Value	Reduction needed for BS8233 compliance	$L_{Aeq\ 8hour}$ Value	Reduction for BS8233 compliance	L_{Amax} Value	Reduction for compliance
ML 1 – Friday	64dBA	29dB	59dBA	29dB	80dBA	35dB
ML 1 – Saturday	64dBA	29dB	61dBA	31dB	80dBA	35dB
ML 2 – Friday	56dBA	21dB	50dBA	20dB	68dBA	23dB
ML 2 – Saturday	56dBA	21dB	53dBA	23dB	70dBA	25dB

7 Results Conclusion:

7.1 The tables listed above clearly indicate the required sound reduction values at the proposed site. It is clear to see that the measured day time & night time levels are constant in both microphone locations. Providing suitable mitigation measures are applied to the necessary facades the required internal criteria can be achieved. The L_{Amax} values are also relatively constant over the weekend period and all necessary sound reduction values are shown in the report above. The proposed measures will be proposed for all necessary dwellings and windows to ensure all noise sources are mitigated against. It is anticipated that these dwellings can be naturally ventilated with open windows during the day time and night time period, to achieve a balance between noise, ventilation, and overheating.

7.2 Based on the measured noise levels, the proposed mitigation measures, the location of the development and the type of noise apparent it is anticipated that the noise will fall at The NOEL value (No adverse effect level) and maybe towards the LOAEL (Lowest observed adverse effect level) and as such the noise should not have a detrimental effect on the future residents providing adequate measures are implemented to the building fabric & elements. For noise sources at the LOAEL, it is anticipated that the noise will be noticeable but not intrusive if suitable mitigation measures are implemented to the development.

7.3 Based on the measured levels and assuming a glazing specification offering a sound reduction of 35dBA (easily meets the levels required above) is installed the following internal levels would be achieved:

Room – Front & side	External Level	Sound Reduction of windows	Internal Level	Criteria Met
Lounge	64dBA	35dB	29dBA	Yes
Bedroom – L_{Aeq}	61dBA	35dB	26dBA	Yes
Bedroom - L_{Amax}	80dBA	35dB	45dBA	Yes

Room – Rear	External Level	Sound Reduction of windows	Internal Level	Criteria Met
Lounge	56dBA	30dB	26dBA	Yes
Bedroom – L_{Aeq}	53dBA	30dB	23dBA	Yes
Bedroom - L_{Amax}	70dBA	30dB	40dBA	Yes

7.5 The levels above indicate that the internal levels can be achieved with the windows closed. The table below shows the calculated single figure values of the habitable rooms with windows open. Section 2.30 and Figure 2 of the Pro PG document states that the internal guidelines of BS8233: 2014 can be relaxed by 5dBA (40dBA $L_{Aeq\ 16hour}$ and 35dBA $L_{Aeq\ 8hour}$) when the dwellings are necessary or desirable and also that residents will accept a slight increase in noise levels to ensure natural ventilation. A relaxation of 5dBA will still ensure a reasonable standard of living. It is clear that this approach could be implemented to the development for the day time levels and the night time levels.

7.6 Some noise sensitive rooms will be located at the rear of the building and thus exposed to lower noise levels, but they will still require suitable levels of mitigation.

7.7 The proposed measures indicate that the development follows the approach recommended in the PPG Guidance (Paragraph 009) regarding the closure of windows which states: *"The agent of change will also need to define clearly the mitigation being proposed to address any potential significant adverse effects that are identified. Adopting this approach may not prevent all complaints from the new residents/users about noise or other effects but can help to achieve a satisfactory living or working environment and help to mitigate the risk of a statutory nuisance being found if the new development is used as designed (for example, keeping windows closed and using alternative ventilation systems when the noise or other effects are occurring)."*

7.8 Paragraph 011 of the same guidance states: Noise impacts may be partially offset if residents have access to one or more of:

- a relatively quiet facade (containing windows to habitable rooms) as part of their dwelling.
- a relatively quiet external amenity space for their sole use, (e.g., a garden or balcony). Although the existence of a garden or balcony is generally desirable, the intended benefits will be reduced if this area is exposed to noise levels that result in significant adverse effects.
- a relatively quiet, protected, nearby external amenity space for sole use by a limited group of residents as part of the amenity of their dwellings; and/or
- a relatively quiet, protected, external publicly accessible amenity space (e.g., a public park or a local green space designated because of its tranquillity) that is nearby (e.g., within a 5-minute walking distance).

In addition to the orientation of some dwellings, further measures also include installing alternative ventilation systems, in line with the listed building status to all dwellings to ensure suitable levels of ventilation when the windows are closed, but all residents will have the ability to open their windows at their own discretion for periods of the day time and night time.

7.9 The levels shown in the table above indicate that a reasonable standard of living can be achieved with open windows. Even if this is for short periods of time, it will ensure a balance is struck between noise, overheating & ventilation for the new dwellings.

7.10 Table 3.3 – Guidance for level 2 assessment of noise from transport services in the ANC AVO guide states that '*Noise causes a material change in behaviour e.g., having to keep windows closed most of the time'* if the following levels are exceeded for longer periods of time:

Internal ambient noise levels

$L_{Aeq\ 16hour}$ 0700-2300	$L_{Aeq\ 8hour}$ 2300-0700	Individual noise events 2300-0700
>50dB	>42dB	Normally exceeds 65dB L_{AmaxT}

7.11 Using the above guidance (sliding scale as shown in the diagram below) the calculated internal levels at the front & rear façades with the windows open are also shown below. It is anticipated that the future occupants will accept an increase in the noise levels for periods of time to ensure good thermal comfort for the dwellings. The levels at the front façade are above these values, so the period of time these windows are opened may be less, but then the alternative ventilation units can ensure suitable levels of ventilation for the dwellings. The future residents will be able to open and close the windows at their own discretion at the rear elevations can be open as they wish.

Front Facade	**External Level**	**Sound Reduction of open windows**	**Internal Level**
Lounge	64dBA	-13dB	51dBA
Bedroom – L_{Aeq}	61dBA	-13dB	48dBA
Bedroom - L_{Amax}	80dBA	-13dB	67dBA

7.12 Based on the above values it is clear that an alternative ventilation system will be required to ensure suitable levels of ventilation and avoidance of overheating for the periods when the windows will be closed.

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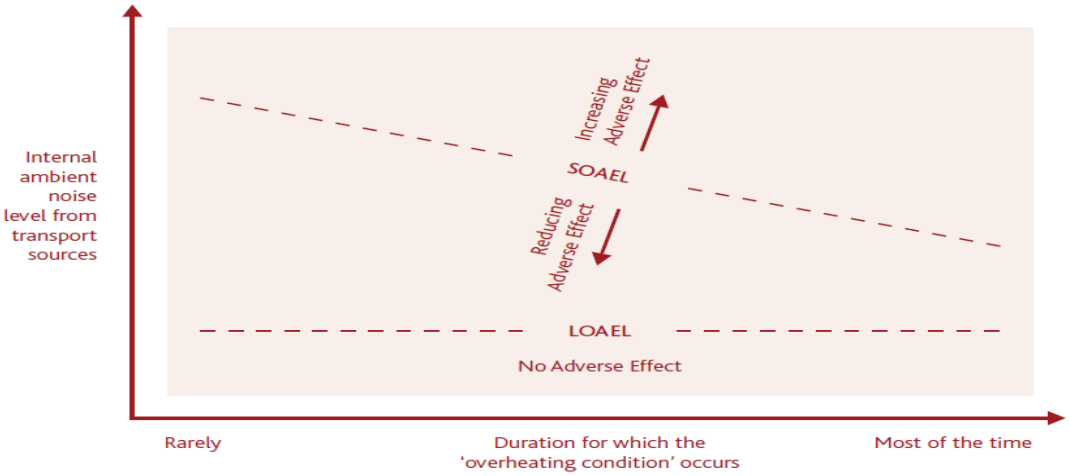
Rear Facades	External Level	Sound Reduction of open windows	Internal Level
Lounge	56dBA	-13dB	43dBA
Bedroom – L_{Aeq}	53dBA	-13dB	40dBA
Bedroom - L_{Amax}	70dBA	-13dB	57dBA

Figure 3-2 Qualitative guidance on combined effect of internal ambient noise level and duration for the overheating situation



7.12 Based on the measured levels and anticipated internal levels offered by natural ventilation, an alternative ventilation system will be required for all dwellings. A system such as an acoustic air brick (or similar due to the listed building status) is required when natural ventilation may not be possible for periods of the day and night, therefore the implementation of the alternative ventilation system (along with the thermal mass and other design measures) will help to ensure that the dwellings can be ventilated when the windows are closed. These measures combined with the quieter facades should ensure a reasonable standard of living can be achieved for the proposed dwellings.

7.13 It can be seen that the L_{Aeq} values and the L_{Amax} value meet the sliding scale criteria at the rear facade, but this is in the absence of any mitigation to the plant. The purpose of the alternative ventilation system is to ensure the rooms can be ventilated for the period of time when the windows are closed, but a balance must be struck between noise, overheating and ventilation. It is anticipated that the future residents will accept higher levels of noise for periods of time to be able to naturally ventilate their homes.

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8 **Public House Plant:**

8.1 It is unclear if any mitigation is possible to the public house plant, so the mitigation may have to take place at receptor only. The following information is based on the measured values of the plant during the assessment and the absolute rating level of the plant and therefore the level of mitigation required.

8.2 The plant is understood to be on during the day time only (kitchen extraction) but there may be other plant that may operate during the night time period. As part of the planning application, some plant will be relocated onto the flat roof at the rear of the building. Once this is installed then a full BS4142: 2014 + A1: 2019 assessment may be required due to the plant being located close to the new dwellings.

8.3 The plant relocation has not taken place and the noise associated with the plant is not the dominant noise source apparent on site and as such a full BS4142: 2014 + A1: 2019 is not required. A target value has however been included below. This $L_{A90\ 3minite}$ value was measured during the night time period, and as such this should be the background noise level used for any future noise impact assessment for the plant (based on this measured data). Far completeness, the value of 39dBA can be compared to the measured day time values at the rear (1hour value) which was 61dB (not representative but assuming worst case scenario, then if additional acoustic feature corrections are applied for the plant being noticeable etc the rating level could be 64dBA. This leads to an absolute difference of 25dBA which was actually the highest measured sound reduction apparent for the rear façade. The proposed sound reduction of the windows to the rear is 30dBA so this meets the levels listed above, and this coupled with the robust building materials to be used as part of the extensions and alternative ventilation system should ensure the plant will not lead to an adverse impact on the dwellings.

L_{A90} 3minute value
39dBA – measured during the night

8.4 If any mitigation is possible to the plant then some solutions are listed below. It is clear to see that the noise associated with the plant will lead to an adverse impact on the proposed dwellings in the absence of any mitigation (to plant or receptor). Once the plant is relocated to the flat roof then some measures that can be implemented to the plant (if possible) are shown below. These measures include:

1. Screening the plant from the receptor
2. Enclosing the plant in an acoustic enclosure
3. Mounting plant on anti-vibration mounts
4. Upgrading the building façade and glazing in this location (will be implemented as part of this assessment)

8.5 The above measures would help to reduce the rating level of the plant, and perhaps a combination of all would be most effective.

8.6 The target values listed above can be a target value used for all future plant. However, it must be stressed that the existing plant is on continuously through the day time and night time period, indicating that the current background noise levels will be higher than the above. So future assessments could use the measured values listed in this report for reference and target values.

9 Internal Measures to separating elements:

9.1 The following are measures that could be implemented to the separating floor and perimeter of the building in order to improve the sound attenuation between the 1st floor public house & dwelling above. Due to the listed status of the building, it is not possible to undertake works to the ceilings and therefore the works will have to take place to the floors. Again, due to the constraints placed on the client (by way of mitigation measures) the overall level of performance may not be as high if the building was not listed.

9.2 As stated above, it is not possible to treat the ceilings, so the works will have to take place to the floors.

1. Lay acoustic floor deck (screed board or similar) to acoustic battens (isolation perimeter strips installed)
2. Lay acoustic battens to floors with mineral wool/floor slab placed in between battens
3. Lay 5mm mass loaded vinyl to acoustic floor
4. Timber joists filled with rockwool ablative batts & rockwool mineral wool – ensuring air gap
5. Batten placed around the joists perimeter (internal)
6. 2 x Acoustic plasterboard with MLV bonded fixed to battens
7. Acoustic mastic applied
8. Existing ceiling maintained

There are some optional upgrades that could also be installed, and whilst treating the floors would not be the preferred approach, the client is limited on the works that they can installed due to the listed status of the building.

In addition to the works on the separating floor, in order to reduce the possibility of flanking transmission it is recommended to install a perimeter wall lignin to the upper floors. Such a system could comprise of:

1. Maintain cavity
2. Install an independent wall lining to perimeter
3. Place mineral wool insulation between studs
4. Fix acoustic plasterboard to studs
5. Plaster Finish

Such a system will improve the isolation between structures and reduce the possibility of flanking transmission. However, such a system may have a negative impact on the existing and original building features and thus may not be possible to install.

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10 Required Levels of Mitigation:

Elevation	Noise Source	Level of Sound Reduction
Front & Side Facades	Road traffic & PH	35dBA
Rear Facade	PH Plant	25dBA

11 Building Specifications:

11.1 The site is exposed to relatively high levels of noise from the road traffic, and as such it is recommended that the dwellings are ventilated with alternative ventilation systems (due to listed status of the building). These will ensure the dwellings can be ventilated when the windows are closed.

Make	Model	Type
Greenwood	Acoustic Air Brick (AAB)	Whole house wall Ventilation
Greenwood	Acoustic wall ventilator (MA3051)	Whole house wall ventilation

Rear Facades could be treated with the following system

Product	Sound Reduction - open	Sound reduction - closed
RW Simon Acoustic SL trickle vent	33dB	39dB
Greenwood EAQ42W window vent	42dB	

The following are measures that could be implemented to the proposed extension section of the building.

11.2 Façade Detail – The proposed façade is believed to be something similar to: - Aggregate block cavity wall, minimum 100mm blocks (minimum density 1350kg/m3), minimum 75mm cavity between leaves, finished with 13mm plaster. This system should achieve a sound reduction of between 50-52dB DnT,w + Ctr 'Code of Practice BS8233: 2014, Page 60 – Table E.1B – Airborne sound insulation of walls and partitions'. Also, a cavity wall system comprising of 7N concrete blocks (two separate frames), have a sound reduction of approximately 53dB (predicted weighted sound reduction index values of Celcon Blockwork – from H&H Celcon). A timber frame details should also meet the sound insulation values listed above, an upgrade for this could be to install resilient bars to the internal timbers and then upgrade the plasterboards (upgraded to acoustic if possible) to the bars – ensuring no contact to the timbers behind.

11.3 Roof Detail – The proposed roof detail is believed to be similar to: Tiles on felt, pitched roof with 100mm mineral wool on plasterboard ceiling. This system should achieve a sound reduction of 43dB R_w 'BS8233: 2014, page 41 - Table 8 - The sound insulation of roofs'.

11.4 Windows – Due to the listed status of the building, secondary glazing has been assumed for the windows within the existing building. For heritage reasons, the same treatment will be applied to the windows in the new build element i.e., single glazed sash windows plus secondary glazing. The table below includes secondary glazed units. A level of 35dBA has been determined from the attended visit for the front façade & 25dB for the rear façade, and thus the specifications listed below will offer this level of reduction.

Possible Units	Thickness	125Hz	250Hz	500Hz	1KHz	2KHz	4KHz	Overall reduction
Pilkingtons 6-100-4	110mm	26	34	44	56	53	52	45-7=38dB
Pilkingtons 6-150-4	160mm	29	35	45	56	52	50	47-7=40dB

11.5 There are many other suitable products, and the client will have to show compliance for the windows before installation, the manufacturer will have the acoustic data for the windows.

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12 Results Summary:

12.1 The findings of this survey indicate that the noise associated with the road traffic, public house and public house plant will not have an adverse impact on the residential dwellings, providing the necessary mitigation measures are applied to the site.

12.2 The report clearly shows the required levels of sound reduction for all facades, the separating floor, and the plant (if possible). If these measures are undertaking then it is anticipated that the future acoustic environment will be adequate for residents, and a suitable balance between noise, overheating & ventilation.

12.3 The mitigation measures listed within this report offer suitable sound reduction for the necessary building elements and if they are implemented throughout the site then the future residents should be able to enjoy a reasonable standard of living. Upon implementation of the mitigation measures, the internal & external criteria of BS8233: 2014 should be met within the noise sensitive bedrooms at the proposed development.

12.4 Planning ProPG states that a good acoustic design process is a vital part of new developments. The client has taken steps to ensure that the future occupants are protected from the noise source, these steps include:

1. Measures applied to the dwellings to improve overheating & ventilation
2. Install a robust glazing system to the dwelling to protect the residents from the external noise emissions when closed
3. Alternative ventilation installed to dwellings to ensure ventilation when windows closed
4. Possible mitigation of public house plant to reduce the noise break out levels at the façade
5. Upgrade the separating floor between the dwellings and public house to reduce sound transmission

12.5 The measures taken by the client, should ensure the future residents will not be adversely affected by the noise sources associated with the public house & car park.

12.6 All noise sources have been assessed in numerous ways and it is accepted that these levels are sometimes relatively high, but this report has offered suitable mitigation measures that can be implemented to ensure the future residents are not adversely affected by the noise associated with the public house and road traffic etc. The venue can also help to control these elements by asking the patrons to leave quietly.

12.7 The proposed measures indicate that the development follows the approach recommended in the PPG Guidance (Paragraph 009) regarding the closure of windows which states: *"The agent of change will also need to define clearly the mitigation being proposed to address any potential significant adverse effects that are identified. Adopting this approach may not prevent all complaints from the new residents/users about noise or other effects but can help to achieve a satisfactory living or working environment and help to mitigate the risk of a statutory nuisance being found if the new development is used as designed (for example, keeping windows closed and using alternative ventilation systems when the noise or other effects are occurring)."*

12.8 Paragraph 011 of the same guidance states: Noise impacts may be partially offset if residents have access to one or more of:

- a relatively quiet facade (containing windows to habitable rooms) as part of their dwelling.
- a relatively quiet external amenity space for their sole use, (e.g., a garden or balcony). Although the existence of a garden or balcony is generally desirable, the intended benefits will be reduced if this area is exposed to noise levels that result in significant adverse effects.
- a relatively quiet, protected, nearby external amenity space for sole use by a limited group of residents as part of the amenity of their dwellings; and/or
- a relatively quiet, protected, external publically accessible amenity space (e.g., a public park or a local green space designated because of its tranquillity) that is nearby (e.g., within a 5-minute walking distance

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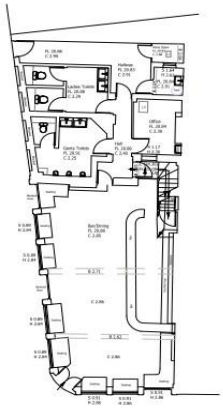
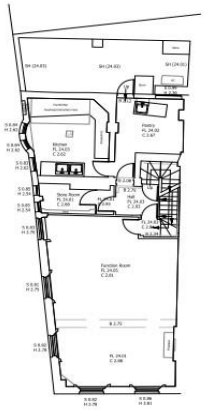
13 Proposed Site Plan:

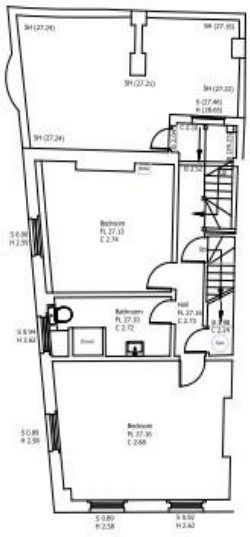
Existing
Basement Plan



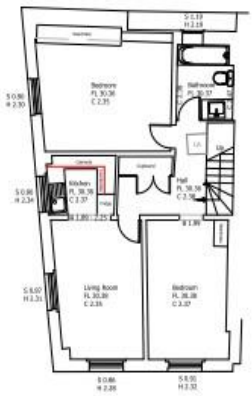
Existing
Ground Floor Plan



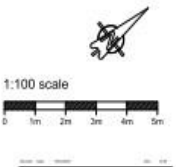
Existing
First Floor Plan



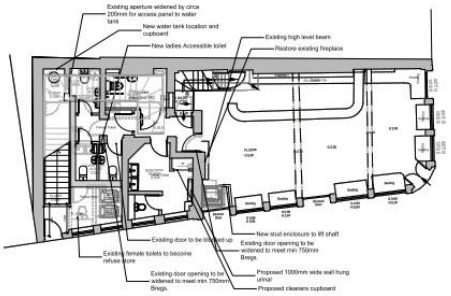
Existing
Second Floor Plan



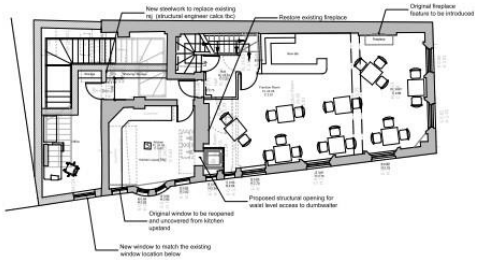
Existing
Third Floor Plan



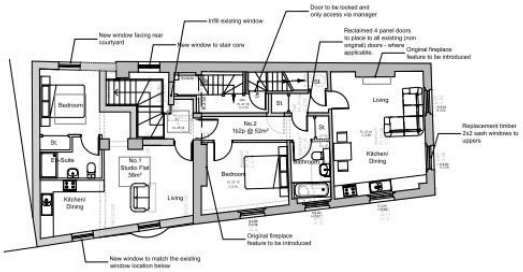
AIRTIGHT & NOISECHECK LIMITED ACOUSTICS TESTING



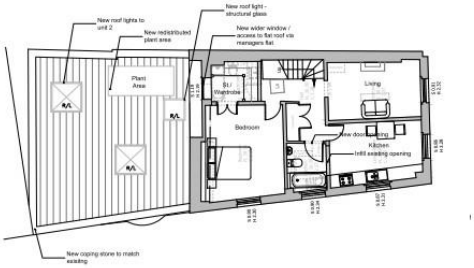
Proposed
Ground Floor Plan



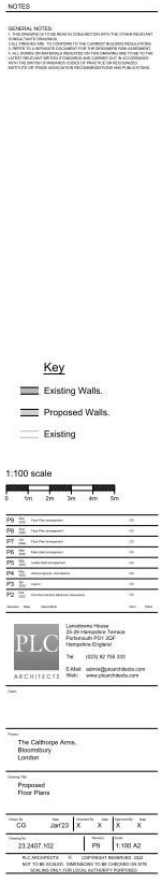
Proposed
First Floor Plan



Proposed
Second Floor Plan



Proposed
Third Floor Plan



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14 APPENDIX

Continuous equivalent noise level, LAeq — The steady noise level (usually in dBA) which, over the period of time under consideration, contains the same amount of sound energy as the time varying noise.

LAmax - The maximum value that the A-weighted sound pressure level reaches during a measurement period.

dB (A) — The A-weighted sound pressure level.

Decibel (dB) — A unit used for many acoustic qualities to indicate the level of sound with respect to a reference level.

A-weighting — A frequency weighting that relates to the response of the human ear.

Background noise level — Prevailing noise level in a specified environment measured in the absence of the noise being studied.

Habitable Room – A room used for sleeping or recreation/relaxation

Dne,w Weighted element normalised level difference – A single-number quantity which characterises the airborne sound insulation of a small building elements.

EPU – Environmental Protection Unit

Rw Weighted sound reduction index – A single-number quantity which characterises the airborne sound insulation of a material or building element measured in the laboratory.

LA10 – The A-weighted noise level exceeded for 10% of the measurement duration.

LA90 - The A-weighted noise level exceeded for 90% of the measurement duration.

British Standards & associated documents:

Code of Practice: BS8233: 2014 - Sound Insulation and noise reduction for buildings.

World Health Organization (WHO) - Guidelines for Community Noise.

Pro PG – Planning & Noise, Residential Development – 2017

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15 Google Earth:

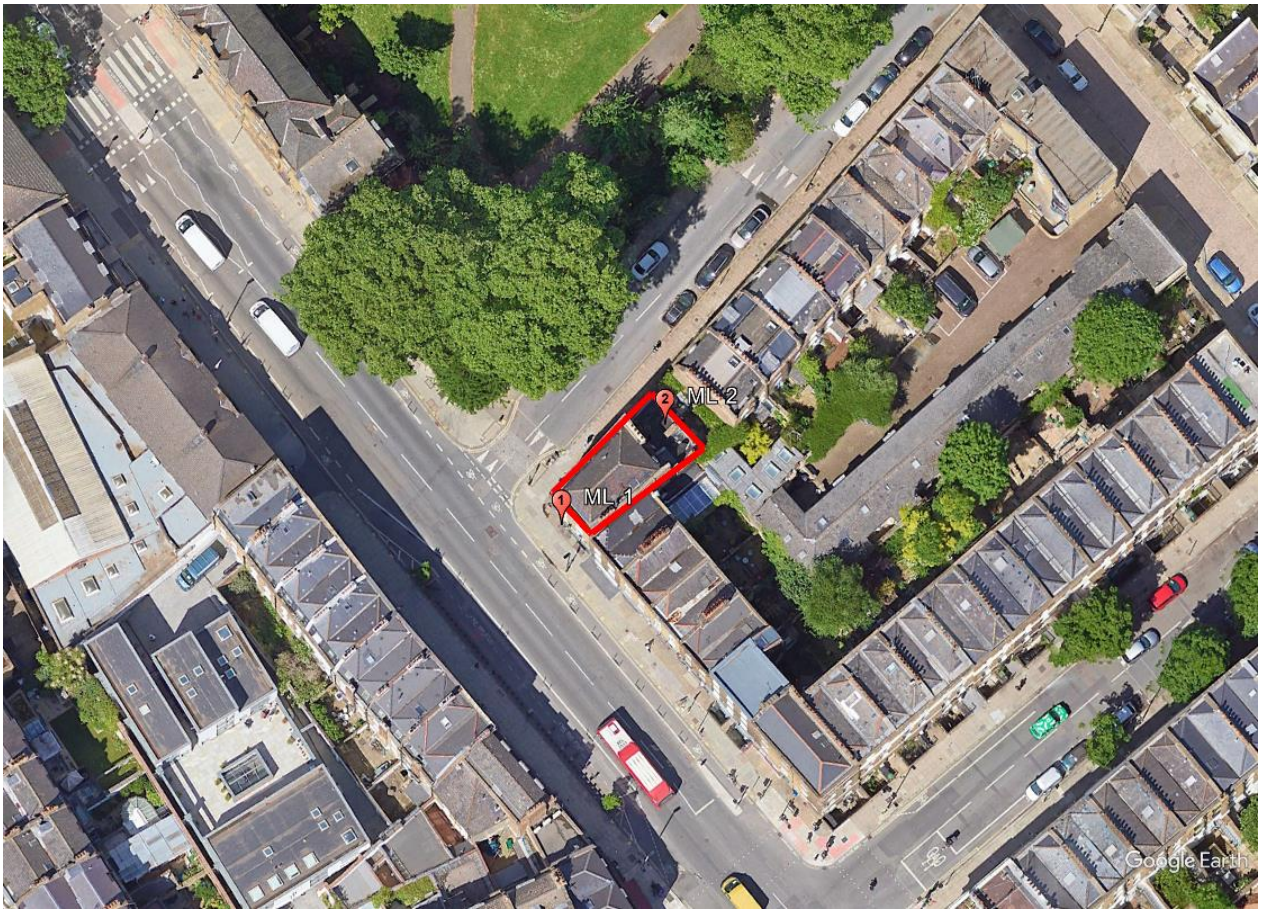

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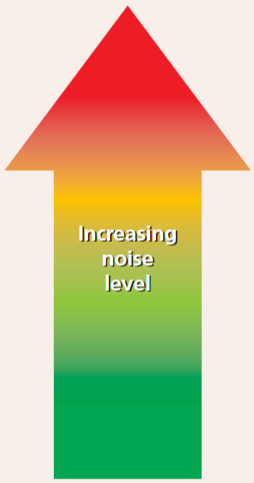
Table 3-3 Guidance for Level 2 assessment of noise from transport noise sources[Note 1] relating to overheating condition

Internal ambient noise level [Note 2]			Examples of Outcomes [Note 5]	
$L_{Aeq,T}$ [Note 3] during 07:00 – 23:00 [Note 6]	$L_{Aeq,8h}$ during 23:00 – 07:00	Individual noise events during 23:00 – 07:00 [Note 4]		
> 50 dB	> 42 dB	Normally exceeds 65 dB $L_{AF,max}$	Noise causes a material change in behaviour e.g. having to keep windows closed most of the time	Avoiding certain activities during periods of intrusion. Having to keep windows closed most of the time because of the noise. Potential for sleep disturbance resulting in difficulty in getting to sleep, premature awakening and difficulty in getting back to sleep. Quality of life diminished due to change in acoustic character of the area.
			Increasing likelihood of impact on reliable speech communication during the day or sleep disturbance at night	At higher noise levels, more significant behavioural change is expected and may only be considered suitable if occurring for limited periods. As noise levels increase, small behaviour changes are expected e.g. turning up the volume on the television; speaking a little more loudly; having to close windows for certain activities, for example ones which require a high level of concentration. Potential for some reported sleep disturbance. Affects the acoustic environment inside the dwelling such that there is a perceived change in quality of life. At lower noise levels, limited behavioural change is expected unless conditions are prevalent for most of the time. [Note 8]
≤ 35 dB	≤ 30 dB	Do not normally exceed $L_{AF,max}$ 45 dB more than 10 times a night	Noise can be heard, but does not cause any change in behaviour	Noise can be heard, but does not cause any change in behaviour, attitude, or other physiological response[Note 9]. Can slightly affect the acoustic character of the area but not such that there is a perceived change in the quality of life.

Note 1 The noise levels suggested in Tables 3-2 and 3-3 assume a steady road traffic noise source but may be adapted for other types of transport.

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Table B-5 Examples of passive ventilation solutions providing enhanced sound insulation

Design option	Description and references	Approximate Level Difference (external free field level – internal reverberant level)	Improvement relative to a window providing a similar amount of ventilation
Standard opening windows	Window(s) open sufficiently to provide a ventilation free-area equivalent to 2% of the floor area. [42]	13 dB	0 dB
Open windows with sound attenuating balconies	Window(s) as above. Balconies may have a solid balustrade or be enclosed to a further degree (maintaining an open area for ventilation). Absorption may be provided to the balcony soffit or potentially to other surfaces. [49, 50, 51]	17 – 23 dB	4 – 10 dB
Attenuated or plenum windows	Dual windows (spaced by around 200mm) with staggered openings and absorptive linings to the cavity reveals. Various other configurations also possible in principle. [52, 53]	17 – 24 dB	4 – 11 dB
Attenuated vents/ louvres	Ventilation openings with integral means of attenuating sound. Typically this may be acoustic louvres or acoustically lined ducts/plena. [54, 55]	17 – 29 dB	4 – 16 dB
Attenuated windows or vents/ louvres with sound attenuating balconies	Combined use of balconies to provide screening and acoustically attenuated windows or vents. Refer to above for description of each element.	21 – 39 dB	8 – 26 dB

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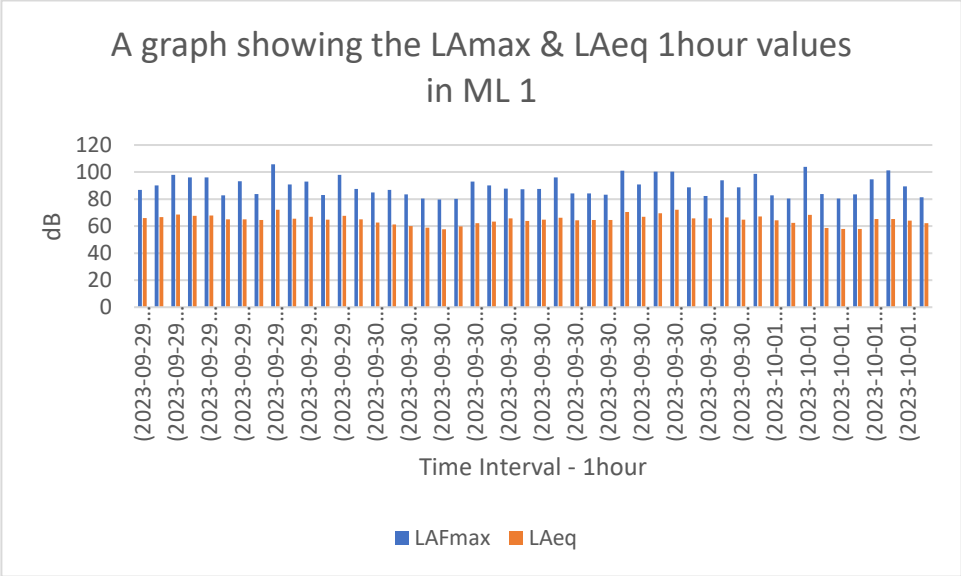
ML 1 Data

Time:	LAFmax	LAeq
(2023-09-29 10:00:43.740)	86.9	66
(2023-09-29 11:00:43.740)	90.2	66.6
(2023-09-29 12:00:43.740)	98	68.6
(2023-09-29 13:00:43.740)	96.1	67.7
(2023-09-29 14:00:43.740)	96.1	67.8
(2023-09-29 15:00:43.740)	82.7	65.1
(2023-09-29 16:00:43.740)	93.3	65.1
(2023-09-29 17:00:43.740)	83.8	64.6
(2023-09-29 18:00:43.740)	105.8	72
(2023-09-29 19:00:43.740)	90.8	65.5
(2023-09-29 20:00:43.740)	92.9	66.8
(2023-09-29 21:00:43.740)	82.9	64.7
(2023-09-29 22:00:43.740)	98	67.6
(2023-09-29 23:00:43.740)	87.6	65.1
(2023-09-30 00:00:43.740)	84.9	62.7
(2023-09-30 01:00:43.740)	86.8	61.1
(2023-09-30 02:00:43.740)	83.4	60
(2023-09-30 03:00:43.740)	80.5	58.9
(2023-09-30 04:00:43.740)	79.6	57.7
(2023-09-30 05:00:43.740)	80.1	59.8
(2023-09-30 06:00:43.740)	92.9	62.2
(2023-09-30 07:00:43.740)	90.1	63.3
(2023-09-30 08:00:43.740)	87.7	65.8
(2023-09-30 09:00:43.740)	87.3	63.9
(2023-09-30 10:00:43.740)	87.6	64.7
(2023-09-30 11:00:43.740)	96	66.1
(2023-09-30 12:00:43.740)	84.1	64.3
(2023-09-30 13:00:43.740)	84.1	64.6
(2023-09-30 14:00:43.740)	83.2	64.5
(2023-09-30 15:00:43.740)	101	70.5
(2023-09-30 16:00:43.740)	90.8	66.9
(2023-09-30 17:00:43.740)	100.3	69.4
(2023-09-30 18:00:43.740)	100.3	72.1
(2023-09-30 19:00:43.740)	88.6	65.7
(2023-09-30 20:00:43.740)	82.4	65.7
(2023-09-30 21:00:43.740)	93.9	66.5
(2023-09-30 22:00:43.740)	88.6	64.7
(2023-09-30 23:00:43.740)	98.6	67.1
(2023-10-01 00:00:43.740)	82.8	64.2
(2023-10-01 01:00:43.740)	80.5	62.3
(2023-10-01 02:00:43.740)	103.8	68.4

(2023-10-01 03:00:43.740)	83.7	58.7
(2023-10-01 04:00:43.740)	80.4	57.8
(2023-10-01 05:00:43.740)	83.4	57.8
(2023-10-01 06:00:43.740)	94.7	65.3
(2023-10-01 07:00:43.740)	101.3	65.3
(2023-10-01 08:00:43.740)	89.4	64.1
(2023-10-01 09:00:43.740)	81.4	62.1



Time:	LAFmax	LAeq
(2023-09-29 10:00:43.740)	86.9	65.2
(2023-09-29 10:03:43.740)	77	66.9
(2023-09-29 10:06:43.740)	80.3	65.5
(2023-09-29 10:09:43.740)	78.7	66.3
(2023-09-29 10:12:43.740)	78.8	68.8
(2023-09-29 10:15:43.740)	78.8	69
(2023-09-29 10:18:43.740)	78.2	63.1
(2023-09-29 10:21:43.740)	79.2	65.7
(2023-09-29 10:24:43.740)	86.1	67.5
(2023-09-29 10:27:43.740)	83.3	67
(2023-09-29 10:30:43.740)	75.1	64.4
(2023-09-29 10:33:43.740)	75.6	65.3
(2023-09-29 10:36:43.740)	73.5	63.9
(2023-09-29 10:39:43.740)	81.9	64.4
(2023-09-29 10:42:43.740)	80.8	67.4
(2023-09-29 10:45:43.740)	77.9	62.9
(2023-09-29 10:48:43.740)	77.2	65
(2023-09-29 10:51:43.740)	80.8	65.1
(2023-09-29 10:54:43.740)	73.9	64.5
(2023-09-29 10:57:43.740)	76.8	65.3
(2023-09-29 11:00:43.740)	75	62.2
(2023-09-29 11:03:43.740)	90.2	68.9
(2023-09-29 11:06:43.740)	83.5	66.6
(2023-09-29 11:09:43.740)	81.4	64.3
(2023-09-29 11:12:43.740)	79.7	68.3
(2023-09-29 11:15:43.740)	74.9	65.1
(2023-09-29 11:18:43.740)	82.1	71.6
(2023-09-29 11:21:43.740)	76.1	65.2
(2023-09-29 11:24:43.740)	75.3	63.7
(2023-09-29 11:27:43.740)	80.6	67
(2023-09-29 11:30:43.740)	77.5	65.6
(2023-09-29 11:33:43.740)	81.8	68.4
(2023-09-29 11:36:43.740)	78.3	66.8
(2023-09-29 11:39:43.740)	77.3	68.1
(2023-09-29 11:42:43.740)	74.4	64.2
(2023-09-29 11:45:43.740)	75.1	64.1
(2023-09-29 11:48:43.740)	80.3	64.5
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(2023-09-29 12:03:43.740)	75.8	64.3
(2023-09-29 12:06:43.740)	77.6	66
(2023-09-29 12:09:43.740)	75.3	66.8
(2023-09-29 12:12:43.740)	75.3	64.3

(2023-09-29 12:15:43.740)	74	62.8
(2023-09-29 12:18:43.740)	82.6	66.9
(2023-09-29 12:21:43.740)	72.7	63.2
(2023-09-29 12:24:43.740)	79.5	64.4
(2023-09-29 12:27:43.740)	77.9	65.2
(2023-09-29 12:30:43.740)	79.7	66.9
(2023-09-29 12:33:43.740)	85	67.1
(2023-09-29 12:36:43.740)	98	76.1
(2023-09-29 12:39:43.740)	96.2	74.9
(2023-09-29 12:42:43.740)	81.4	69.1
(2023-09-29 12:45:43.740)	80.3	65.1
(2023-09-29 12:48:43.740)	77.7	65.6
(2023-09-29 12:51:43.740)	87	69.5
(2023-09-29 12:54:43.740)	79.9	66.2
(2023-09-29 12:57:43.740)	77.1	63.3
(2023-09-29 13:00:43.740)	73.1	64.4
(2023-09-29 13:03:43.740)	80.4	64.6
(2023-09-29 13:06:43.740)	92.4	68.7
(2023-09-29 13:09:43.740)	77.9	63.7
(2023-09-29 13:12:43.740)	76.8	66.5
(2023-09-29 13:15:43.740)	77.3	65.8
(2023-09-29 13:18:43.740)	77	65.2
(2023-09-29 13:21:43.740)	74.5	63.9
(2023-09-29 13:24:43.740)	77.2	66.7
(2023-09-29 13:27:43.740)	77.3	66.2
(2023-09-29 13:30:43.740)	74.9	65
(2023-09-29 13:33:43.740)	74.7	64.8
(2023-09-29 13:36:43.740)	74.2	65.9
(2023-09-29 13:39:43.740)	78.5	65.3
(2023-09-29 13:42:43.740)	73.7	63.6
(2023-09-29 13:45:43.740)	96.1	76.5
(2023-09-29 13:48:43.740)	78.7	65
(2023-09-29 13:51:43.740)	80.7	65.6
(2023-09-29 13:54:43.740)	82.9	67.7
(2023-09-29 13:57:43.740)	82.8	67.9
(2023-09-29 14:00:43.740)	78.1	65.9
(2023-09-29 14:03:43.740)	82.5	65.8
(2023-09-29 14:06:43.740)	77.8	66.3
(2023-09-29 14:09:43.740)	75.2	63.4
(2023-09-29 14:12:43.740)	96.1	75.6
(2023-09-29 14:15:43.740)	75.8	64.3
(2023-09-29 14:18:43.740)	74.6	64
(2023-09-29 14:21:43.740)	73.2	64.9
(2023-09-29 14:24:43.740)	84.8	65.8
(2023-09-29 14:27:43.740)	78.5	65.3
(2023-09-29 14:30:43.740)	74.7	65.5

(2023-09-29 14:33:43.740)	73	64.4
(2023-09-29 14:36:43.740)	71.7	62.3
(2023-09-29 14:39:43.740)	77.4	68
(2023-09-29 14:42:43.740)	83.9	67.4
(2023-09-29 14:45:43.740)	80	63.8
(2023-09-29 14:48:43.740)	77.5	66.2
(2023-09-29 14:51:43.740)	94.3	73.3
(2023-09-29 14:54:43.740)	80.7	65.7
(2023-09-29 14:57:43.740)	77	64.6
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(2023-09-29 15:09:43.740)	81.1	65.1
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(2023-09-29 15:15:43.740)	75.5	64.8
(2023-09-29 15:18:43.740)	76.2	64.3
(2023-09-29 15:21:43.740)	78.8	65.7
(2023-09-29 15:24:43.740)	78.5	66.2
(2023-09-29 15:27:43.740)	80.7	65.3
(2023-09-29 15:30:43.740)	80.4	65.8
(2023-09-29 15:33:43.740)	79.7	63
(2023-09-29 15:36:43.740)	76.8	64.3
(2023-09-29 15:39:43.740)	82.7	67.2
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(2023-09-29 15:48:43.740)	76.7	67
(2023-09-29 15:51:43.740)	76.9	65.3
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(2023-09-29 16:00:43.740)	77.4	64.6
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(2023-09-30 01:39:43.740)	80.2	62.6
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(2023-09-30 03:21:43.740)	80.5	62.5
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(2023-09-30 03:54:43.740)	71.3	57.8
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(2023-09-30 04:39:43.740)	75.8	59
(2023-09-30 04:42:43.740)	77.4	58.3
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(2023-09-30 04:48:43.740)	67.5	53.4
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(2023-09-30 05:09:43.740)	73.1	60.3
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(2023-09-30 05:27:43.740)	79.3	60.2
(2023-09-30 05:30:43.740)	76.7	61.1
(2023-09-30 05:33:43.740)	72.8	58.8
(2023-09-30 05:36:43.740)	71.7	58.1
(2023-09-30 05:39:43.740)	74.9	59.2
(2023-09-30 05:42:43.740)	71.8	58.8
(2023-09-30 05:45:43.740)	79.3	64.4
(2023-09-30 05:48:43.740)	73.5	56.2
(2023-09-30 05:51:43.740)	76.6	59.9
(2023-09-30 05:54:43.740)	71.8	57.8
(2023-09-30 05:57:43.740)	78.4	59.9
(2023-09-30 06:00:43.740)	81.3	60.9
(2023-09-30 06:03:43.740)	80.9	60.1
(2023-09-30 06:06:43.740)	80.6	61.5
(2023-09-30 06:09:43.740)	82.5	60.7
(2023-09-30 06:12:43.740)	77.3	60.4
(2023-09-30 06:15:43.740)	74.6	60.5
(2023-09-30 06:18:43.740)	77.5	60.1
(2023-09-30 06:21:43.740)	75.1	60.8
(2023-09-30 06:24:43.740)	72.3	59.1
(2023-09-30 06:27:43.740)	75.4	61.6
(2023-09-30 06:30:43.740)	78.3	59
(2023-09-30 06:33:43.740)	74.8	57.5
(2023-09-30 06:36:43.740)	74.8	58.8

(2023-09-30 06:39:43.740)	92.9	70.9
(2023-09-30 06:42:43.740)	74	58.1
(2023-09-30 06:45:43.740)	72.6	58.7
(2023-09-30 06:48:43.740)	78	64.3
(2023-09-30 06:51:43.740)	76.4	61
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(2023-09-30 06:57:43.740)	73.1	59.8
(2023-09-30 07:00:43.740)	78.5	61.9
(2023-09-30 07:03:43.740)	70.9	56.9
(2023-09-30 07:06:43.740)	81.8	60.6
(2023-09-30 07:09:43.740)	76.3	62.3
(2023-09-30 07:12:43.740)	75.6	60.9
(2023-09-30 07:15:43.740)	75	60.5
(2023-09-30 07:18:43.740)	74.2	59.5
(2023-09-30 07:21:43.740)	90.1	66.3
(2023-09-30 07:24:43.740)	76.1	58.8
(2023-09-30 07:27:43.740)	76.4	60
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(2023-09-30 07:36:43.740)	89.5	70.1
(2023-09-30 07:39:43.740)	73.9	60.4
(2023-09-30 07:42:43.740)	79	62.3
(2023-09-30 07:45:43.740)	74.7	61.1
(2023-09-30 07:48:43.740)	80.2	61.6
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(2023-09-30 07:57:43.740)	87.8	67.7
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(2023-09-30 08:06:43.740)	77.4	60.8
(2023-09-30 08:09:43.740)	79.5	62.9
(2023-09-30 08:12:43.740)	80.6	64.1
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(2023-09-30 08:18:43.740)	74.2	61.1
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(2023-09-30 22:33:43.740)	77	64.6
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(2023-09-30 22:51:43.740)	78.5	63
(2023-09-30 22:54:43.740)	78	62.8
(2023-09-30 22:57:43.740)	77.4	65.7
(2023-09-30 23:00:43.740)	79.4	65.7
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(2023-09-30 23:12:43.740)	77.3	64.7
(2023-09-30 23:15:43.740)	80.7	65.2
(2023-09-30 23:18:43.740)	76.9	63.1
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(2023-10-01 04:48:43.740)	74.5	57.2
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(2023-10-01 07:33:43.740)	70.6	57.8
(2023-10-01 07:36:43.740)	74.8	59.3
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(2023-10-01 08:12:43.740)	78.1	63.1
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(2023-10-01 08:45:43.740)	73	60.3
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(2023-10-01 09:15:43.740)	73.4	60.1
(2023-10-01 09:18:43.740)	73.1	60.5
(2023-10-01 09:21:43.740)	77.8	61.4
(2023-10-01 09:24:43.740)	71.8	60.4
(2023-10-01 09:27:43.740)	76.1	61.3
(2023-10-01 09:30:43.740)	74.1	61.1
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(2023-10-01 09:39:43.740)	80.6	64.4
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(2023-10-01 09:48:43.740)	77.6	63.6
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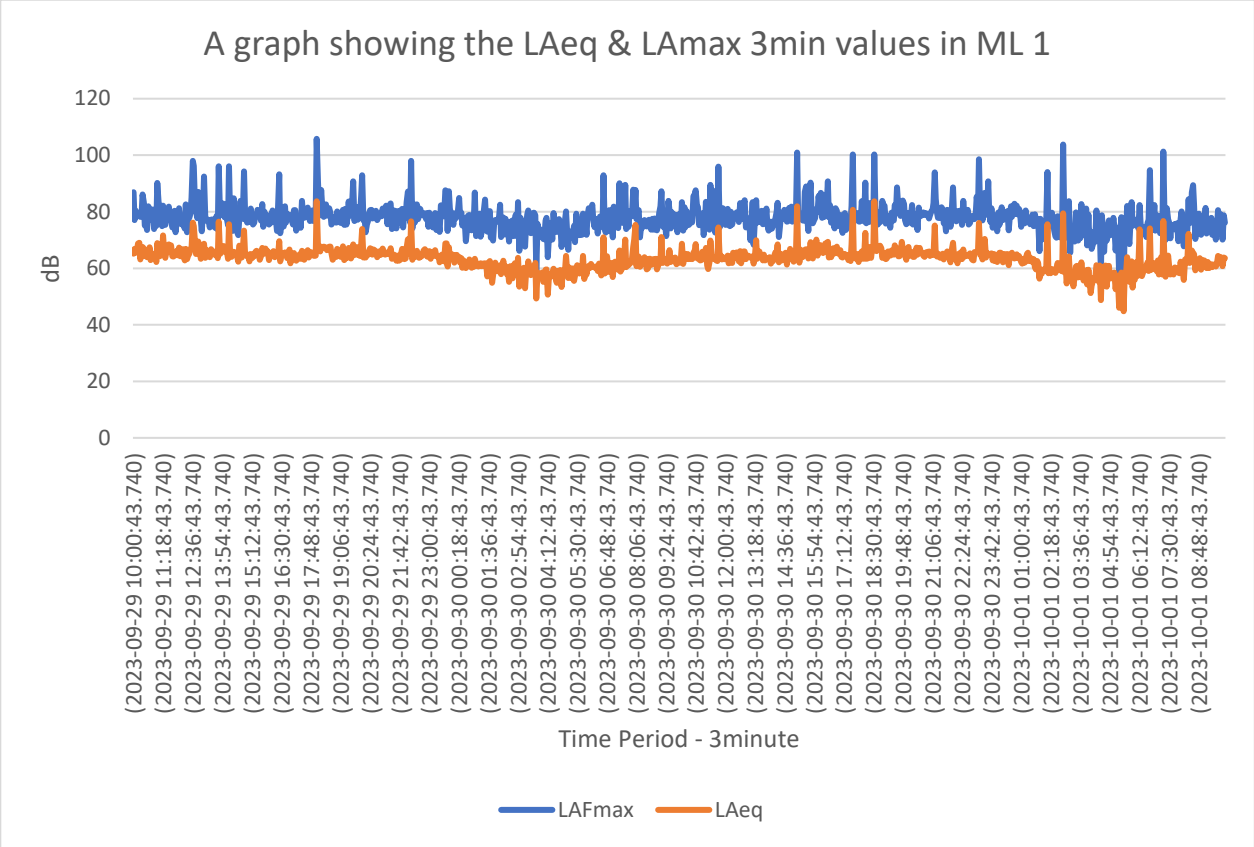
(2023-10-01 09:57:43.740)	76.2	63.6



ML 2 Data

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(2023-09-29 21:00:43.740)	72.1	53.6
(2023-09-29 22:00:43.740)	77	54.3
(2023-09-29 23:00:43.740)	77.1	53
(2023-09-30 00:00:43.740)	71.8	51.2
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(2023-09-30 04:00:43.740)	64.5	46.4
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(2023-09-30 08:00:43.740)	71.4	55.4
(2023-09-30 09:00:43.740)	71.2	53.4
(2023-09-30 10:00:43.740)	74.7	54.1
(2023-09-30 11:00:43.740)	80.1	56.1
(2023-09-30 12:00:43.740)	71.6	54.4
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(2023-09-30 14:00:43.740)	78.9	54.4
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(2023-09-30 16:00:43.740)	73.8	55.9
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(2023-09-30 18:00:43.740)	87.5	61.1
(2023-09-30 19:00:43.740)	74.1	55.4
(2023-09-30 20:00:43.740)	71.3	56.8
(2023-09-30 21:00:43.740)	80.4	55.8
(2023-09-30 22:00:43.740)	72.9	54
(2023-09-30 23:00:43.740)	80.8	55.9
(2023-10-01 00:00:43.740)	70.2	52.7
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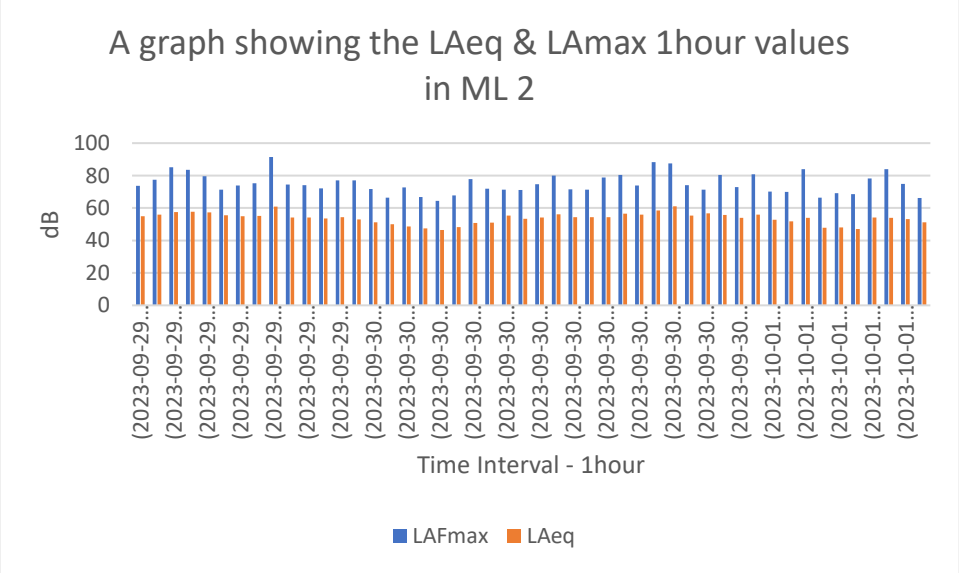
(2023-10-01 09:00:43.740)	66.1	51.1



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(2023-09-29 10:15:43.740)	64.2	54.4
(2023-09-29 10:18:43.740)	60.6	53.8
(2023-09-29 10:21:43.740)	68.2	55
(2023-09-29 10:24:43.740)	73	55
(2023-09-29 10:27:43.740)	69.3	55.7
(2023-09-29 10:30:43.740)	61	53.8
(2023-09-29 10:33:43.740)	62	54.3
(2023-09-29 10:36:43.740)	63.1	53.9
(2023-09-29 10:39:43.740)	73.6	55.5
(2023-09-29 10:42:43.740)	67.3	56.8
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(2023-09-29 10:48:43.740)	64.1	55.1
(2023-09-29 10:51:43.740)	63.7	54.3
(2023-09-29 10:54:43.740)	62.7	55.3
(2023-09-29 10:57:43.740)	64.5	55.5
(2023-09-29 11:00:43.740)	63	53.5
(2023-09-29 11:03:43.740)	77.4	59
(2023-09-29 11:06:43.740)	65.5	55.5
(2023-09-29 11:09:43.740)	67.2	54.8
(2023-09-29 11:12:43.740)	64.6	55.6
(2023-09-29 11:15:43.740)	62.9	56.2
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(2023-09-29 11:24:43.740)	58.9	53.2
(2023-09-29 11:27:43.740)	70.4	55.9
(2023-09-29 11:30:43.740)	69.9	57.3
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(2023-09-29 11:36:43.740)	66	56.3
(2023-09-29 11:39:43.740)	71.3	56.9
(2023-09-29 11:42:43.740)	61.6	54.7
(2023-09-29 11:45:43.740)	63.7	54.3
(2023-09-29 11:48:43.740)	63.9	54.6
(2023-09-29 11:51:43.740)	65	55.7
(2023-09-29 11:54:43.740)	61.1	54.6
(2023-09-29 11:57:43.740)	62.7	54.5
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(2023-09-29 12:06:43.740)	63.4	54.9
(2023-09-29 12:09:43.740)	64.6	56

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(2023-09-29 12:18:43.740)	66.5	55.3
(2023-09-29 12:21:43.740)	65.7	54.2
(2023-09-29 12:24:43.740)	60.8	54.2
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(2023-09-29 12:30:43.740)	68	57.1
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(2023-09-29 12:48:43.740)	63.8	55.4
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(2023-09-30 02:15:43.740)	63.9	51
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(2023-09-30 02:30:43.740)	55.5	44.6
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(2023-09-30 03:15:43.740)	59.2	47.3
(2023-09-30 03:18:43.740)	62.8	47.5
(2023-09-30 03:21:43.740)	63.3	50.2
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(2023-09-30 03:45:43.740)	65.8	47.1
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(2023-09-30 04:09:43.740)	62.4	47.4
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(2023-09-30 04:15:43.740)	61.1	45.1

(2023-09-30 04:18:43.740)	61.7	46.3
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(2023-09-30 04:24:43.740)	56.6	45.7
(2023-09-30 04:27:43.740)	63.4	48.3
(2023-09-30 04:30:43.740)	58.1	47
(2023-09-30 04:33:43.740)	57.4	45.3
(2023-09-30 04:36:43.740)	57.3	43.9
(2023-09-30 04:39:43.740)	56.7	46.9
(2023-09-30 04:42:43.740)	62.3	47.7
(2023-09-30 04:45:43.740)	63.5	47.8
(2023-09-30 04:48:43.740)	55.6	43.7
(2023-09-30 04:51:43.740)	60.4	46.8
(2023-09-30 04:54:43.740)	64.5	46.9
(2023-09-30 04:57:43.740)	59.8	46.5
(2023-09-30 05:00:43.740)	62.2	50.7
(2023-09-30 05:03:43.740)	60.7	48
(2023-09-30 05:06:43.740)	55.5	45.7
(2023-09-30 05:09:43.740)	67	49.3
(2023-09-30 05:12:43.740)	62.3	46.3
(2023-09-30 05:15:43.740)	62.3	45.4
(2023-09-30 05:18:43.740)	62.5	48.6
(2023-09-30 05:21:43.740)	67.8	46.4
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(2023-09-30 20:48:43.740)	66.5	56.2
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(2023-09-30 21:33:43.740)	69.5	53.2
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(2023-09-30 21:39:43.740)	61.8	53.5
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(2023-09-30 22:33:43.740)	64.7	54.8
(2023-09-30 22:36:43.740)	64.4	53.6
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(2023-09-30 23:48:43.740)	61.7	52.5
(2023-09-30 23:51:43.740)	61	51.2
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(2023-09-30 23:57:43.740)	58.6	51.1
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(2023-10-01 00:09:43.740)	70.2	53.3
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(2023-10-01 00:48:43.740)	64.4	53.1
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(2023-10-01 00:57:43.740)	62.5	51.5

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(2023-10-01 01:09:43.740)	62.9	51
(2023-10-01 01:12:43.740)	62.3	51.8
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(2023-10-01 01:24:43.740)	65.2	51.2
(2023-10-01 01:27:43.740)	61.7	50.4
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(2023-10-01 01:33:43.740)	63.9	51.9
(2023-10-01 01:36:43.740)	59.3	49.2
(2023-10-01 01:39:43.740)	61.2	49.4
(2023-10-01 01:42:43.740)	69.4	54.6
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(2023-10-01 01:54:43.740)	58.9	47.1
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(2023-10-01 02:00:43.740)	62.7	48.8
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(2023-10-01 02:06:43.740)	63	48.8
(2023-10-01 02:09:43.740)	78.3	62.6
(2023-10-01 02:12:43.740)	62.5	47.8
(2023-10-01 02:15:43.740)	57.6	48.7
(2023-10-01 02:18:43.740)	60.6	47.2
(2023-10-01 02:21:43.740)	60.3	48.8
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(2023-10-01 03:27:43.740)	62.7	49.5
(2023-10-01 03:30:43.740)	57.4	46.3
(2023-10-01 03:33:43.740)	61.1	47.1
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(2023-10-01 04:09:43.740)	56.4	45.3
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(2023-10-01 04:15:43.740)	61.2	46.7
(2023-10-01 04:18:43.740)	62.2	48.9
(2023-10-01 04:21:43.740)	69.2	52.4
(2023-10-01 04:24:43.740)	67.3	46.6
(2023-10-01 04:27:43.740)	68.9	53.5
(2023-10-01 04:30:43.740)	66.6	48.2
(2023-10-01 04:33:43.740)	64.5	48.8
(2023-10-01 04:36:43.740)	57.9	46.3
(2023-10-01 04:39:43.740)	53.6	45.2
(2023-10-01 04:42:43.740)	63.6	49.7
(2023-10-01 04:45:43.740)	58	43.7
(2023-10-01 04:48:43.740)	64.1	46.3
(2023-10-01 04:51:43.740)	58.6	48.6
(2023-10-01 04:54:43.740)	58.6	45.9
(2023-10-01 04:57:43.740)	58.6	46.6
(2023-10-01 05:00:43.740)	64.4	46.7
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(2023-10-01 05:12:43.740)	63.9	47.3
(2023-10-01 05:15:43.740)	57.8	45.3
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(2023-10-01 06:06:43.740)	59.7	46.7
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(2023-10-01 06:15:43.740)	61.1	54.9
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(2023-10-01 06:24:43.740)	60.9	48.4
(2023-10-01 06:27:43.740)	63.9	48.9
(2023-10-01 06:30:43.740)	60.9	49.6
(2023-10-01 06:33:43.740)	70.8	54.5
(2023-10-01 06:36:43.740)	67.7	49.5
(2023-10-01 06:39:43.740)	78.2	61.3
(2023-10-01 06:42:43.740)	59.4	48
(2023-10-01 06:45:43.740)	64.6	49
(2023-10-01 06:48:43.740)	61.4	48.9
(2023-10-01 06:51:43.740)	70.8	50.4
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(2023-10-01 06:57:43.740)	63.8	48.7
(2023-10-01 07:00:43.740)	64.4	51.3
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(2023-10-01 07:06:43.740)	63.3	51
(2023-10-01 07:09:43.740)	62.8	51.4
(2023-10-01 07:12:43.740)	61.6	47.3
(2023-10-01 07:15:43.740)	83.9	65.2
(2023-10-01 07:18:43.740)	62.3	49.7
(2023-10-01 07:21:43.740)	58.6	47.1
(2023-10-01 07:24:43.740)	59.1	49
(2023-10-01 07:27:43.740)	67.2	51.4
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(2023-10-01 07:33:43.740)	56	47.1
(2023-10-01 07:36:43.740)	63.2	49.3
(2023-10-01 07:39:43.740)	64.5	47.9
(2023-10-01 07:42:43.740)	60.9	47.7
(2023-10-01 07:45:43.740)	68	49.7
(2023-10-01 07:48:43.740)	63.1	49
(2023-10-01 07:51:43.740)	57.8	48.8

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(2023-10-01 08:09:43.740)	55.7	45.8
(2023-10-01 08:12:43.740)	64.3	51.9
(2023-10-01 08:15:43.740)	65.5	50.2
(2023-10-01 08:18:43.740)	64.1	56.3
(2023-10-01 08:21:43.740)	68.2	59.8
(2023-10-01 08:24:43.740)	65.1	51
(2023-10-01 08:27:43.740)	70	56.6
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(2023-10-01 08:33:43.740)	74.9	55.4
(2023-10-01 08:36:43.740)	65.9	53.2
(2023-10-01 08:39:43.740)	61.3	48.9
(2023-10-01 08:42:43.740)	64.5	50.4
(2023-10-01 08:45:43.740)	63.7	49.6
(2023-10-01 08:48:43.740)	67.2	51.7
(2023-10-01 08:51:43.740)	62.6	52
(2023-10-01 08:54:43.740)	63.3	49.3
(2023-10-01 08:57:43.740)	64.1	51.9
(2023-10-01 09:00:43.740)	60.8	50.8
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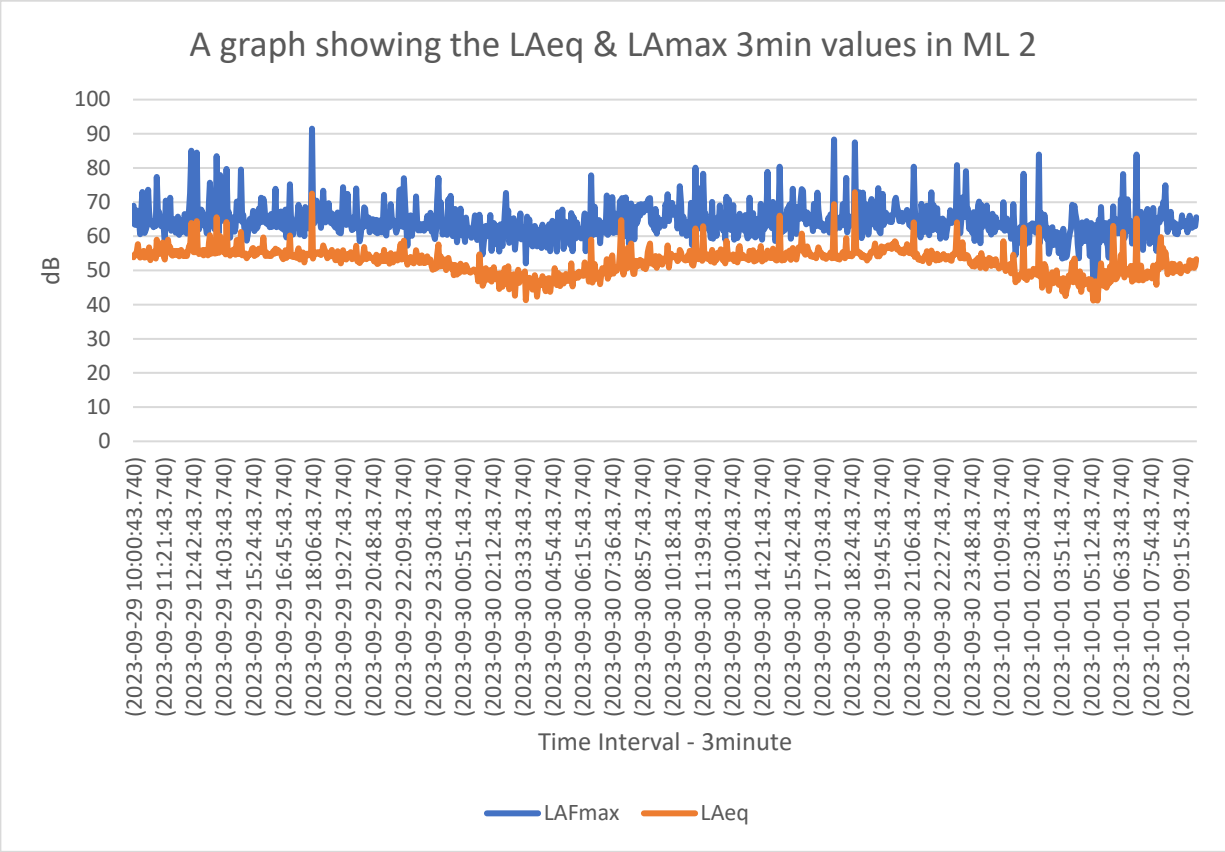
(2023-10-01 09:09:43.740)	62.6	50
(2023-10-01 09:12:43.740)	63	51.9
(2023-10-01 09:15:43.740)	62.8	49.2
(2023-10-01 09:18:43.740)	66.1	50.2
(2023-10-01 09:21:43.740)	63	50.2
(2023-10-01 09:24:43.740)	64.5	50.3
(2023-10-01 09:27:43.740)	62.8	51.1
(2023-10-01 09:30:43.740)	63.8	51
(2023-10-01 09:33:43.740)	61.2	49.8
(2023-10-01 09:36:43.740)	64.4	50.6
(2023-10-01 09:39:43.740)	66	53
(2023-10-01 09:42:43.740)	64.5	50.8
(2023-10-01 09:45:43.740)	62.5	52.7
(2023-10-01 09:48:43.740)	63.1	51.9
(2023-10-01 09:51:43.740)	62.9	50.8
(2023-10-01 09:54:43.740)	62.9	51.3
(2023-10-01 09:57:43.740)	65.6	53.3


A graph showing the LAeq & LAmax 3min values in ML 2
dB
100
90
80
70
60
50
40
30
20
10
0
(2023-09-29 10:00:43.740)
(2023-09-29 11:21:43.740)
(2023-09-29 12:42:43.740)
(2023-09-29 14:03:43.740)
(2023-09-29 15:24:43.740)
(2023-09-29 16:45:43.740)
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(2023-09-29 19:27:43.740)
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(2023-09-30 00:51:43.740)
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(2023-09-30 03:33:43.740)
(2023-09-30 04:54:43.740)
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(2023-10-01 01:09:43.740)
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(2023-10-01 03:51:43.740)
(2023-10-01 05:12:43.740)
(2023-10-01 06:33:43.740)
(2023-10-01 07:54:43.740)
(2023-10-01 09:15:43.740)
Time Interval - 3minute
LAFmax
LAeq