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Bajar Estates
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Dear Sirs

**RE: 33 – 34 VICTORIA ROAD, NETLEY SO31 5DG
ASSESSMENT OF INTERNAL AMBIENT NOISE LEVELS WITHIN COMPLETED FLATS**

Please find below confirmation of the results from our recent commissioning tests of indoor ambient noise levels within the new flats at 33 & 34 Victoria Road, Netley.

In brief, the two mid-terrace properties have recently been converted to form two flats upstairs, two flats downstairs, and two retail units facing Victoria Road.

The development was approved under two Planning Applications, references F/23/96241 and F24/96741. Both consents included the following Condition:

4. No dwelling shall be occupied until a post installation noise assessment (to confirm compliance with the sound criteria and outline and additional steps to mitigate noise) has been submitted to an ad approved in writing by the Local Planning Authority and all approved mitigation measures fully installed and thereafter permanently retained.

The conversion of the buildings was designed to ensure that internal noise levels met the standards for residential amenity set out in Table 4 of BS8233:2024. These are described as follows:

Room Type	Day Time 0700 -2300	Night Time 2300 – 0700
Living Room	$L_{Aeq, 16 \text{ hr}} 35 \text{ dB(A)}$	N/A
Bedroom	$L_{Aeq, 16 \text{ hr}} 35 \text{ dB(A)}$	$L_{Aeq, 8 \text{ hr}} 30 \text{ dB(A)}$

Table 1 – BS8233 Noise Limits for Residential Buildings

In addition, the design sought to limit typical peak noise levels to a maximum of 45 dB(A) L_{Amax} , during the period 2300 – 0700.

The conversion is complete, with new windows and supplementary mechanical ventilation to allow windows to remain closed if preferred.

In order to establish the noise levels within the new building, a long-term survey of noise was conducted within a first floor living room at the front of the building (exposed to road traffic noise from Victoria Road), and a rear first floor bedroom, overlooking the rear of the adjacent take-away restaurant (and associated extract systems).

Rion NL52 sound level meters were left in each room, and configured to record 5-minute samples of the following acoustic parameters:

$L_{Aeq, 5 \text{ mins}}$	The equivalent continuous sound pressure level which contains the same acoustic energy as the time varying signal being measured
$L_{Amax, f}$	The maximum noise level recorded during each sampling period, on a Fast time response
$L_{A90, 5 \text{ mins}}$	A statistical parameter representing the sound level exceeded for 90% of each sampling period. This is often used to describe the background sound level.

The meters were calibrated before and after the survey, and showed no variance from the calibration signal.

The microphones were set on a tripod, 1.4m above floor level, in the centre of the finished but unfurnished rooms. Windows were closed and, for the duration of this exercise, mechanical ventilation was switched off.

The survey ran from 12.00 on Friday 25th April 2025 to 09.00 on Tuesday 29th April 2025. Figures 1 and 2 show the variation of measurements in each room, and the table below confirms the values for each period, in each room:

Location / Date	$L_{Aeq, 0700 - 2300}$	$L_{Aeq, 2300 - 0700}$	Typical ¹ $L_{Amax, f, 2300 - 0700}$
33 Flat 2 Living Room			
Friday 25/4/25	30.8	21.9	40
Saturday 25/4/25	30.6	21.3	42
Sunday 26/4/25	28.5	22.8	45
Monday 27/4/25	54.0 / 27.7*	23.5	44
33, Flat 2 Bedroom			
Friday 25/4/25	26.7	17.8	34
Saturday 25/4/25	26.3	17.3	36
Sunday 26/4/25	25.1	20.1	24
Monday 27/4/25	48.0/31.3*	21.4	40

Table 2 – Measured Indoor Ambient Noise Levels, dB(A)

The two daytime measurements on Monday 27/4 (with asterisk) were adversely affected by finishing works being undertaken within the flat. The higher values represent the 'as-measured' values, and the lower values represent the equivalent sound with the most obvious exceptional raised noise levels excluded.

On that basis, it is confirmed that the indoor ambient sound levels meet the limits expressed in BS8233:2014.

¹ The maximum value exceeded less than 10 times per night.

Prior to the long-term survey commencing, specific sound levels were also recorded from the mechanical ventilation systems serving the living room and bedroom. The table below confirms the recorded values:

Room	Fan Sound Level
Living Room	29.1 dB(A)
Bedroom	25.6 dB(A)

Table 3 – Ventilation System Noise Levels

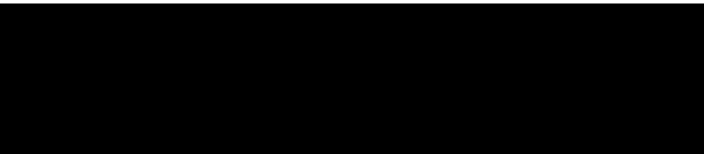
If these values are added to the measured levels of ambient noise (external traffic etc), the cumulative values would remain below 35 dB(A) in Living Rooms and bedrooms during the day, and below 30 dB(A) in bedrooms at night.

Therefore, it is further concluded that the operation of the mechanical ventilation is also within the design targets.

Overall, therefore, it may be taken that the indoor noise levels within the four new apartments is compliant with the original design criteria, and therefore the requirements of Condition 4 of each planning consent.

I trust this provides all the information you require at this time, but please do not hesitate to contact me with any queries arising.

Yours faithfully



RICHARD SHARLAND MA MSC CEng MIOA

FIGURE 1 – MEASURED NOISE LEVELS, 33 FLAT 2 FRONT LIVING ROOM

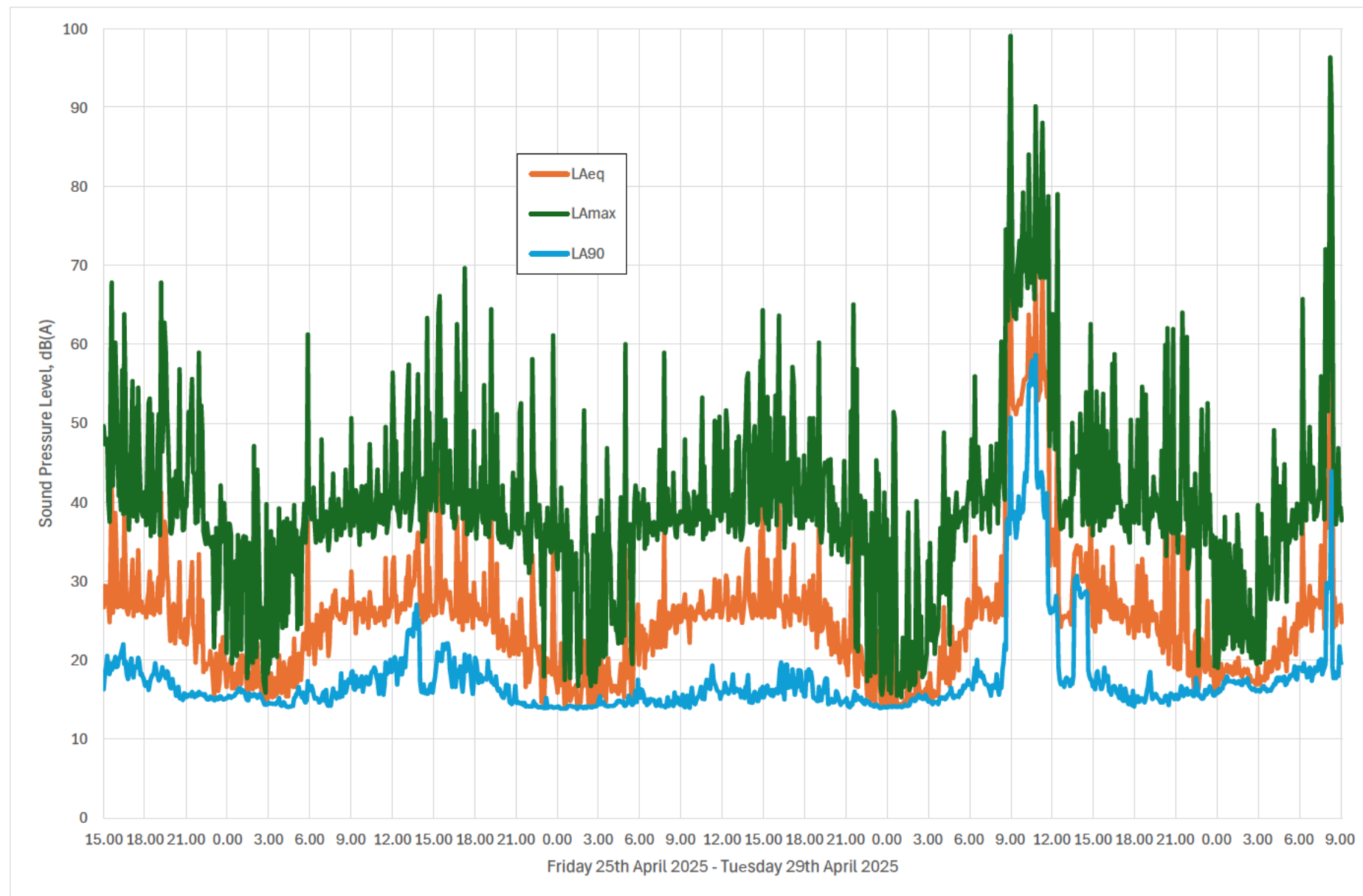


FIGURE 2 – MEASURED NOISE LEVELS, 33 FLAT 2 REAR BEDROOM