PENINSULAR ACOUSTICS

Mr Saghir Hussain
Create It Studio Architects
3 Stevenson Square
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16 June 2025

Dear Saghir,

PA1040 - 101 Queens Road, Cheetham Hill

Planning Report Update.

1.0 INTRODUCTION

Peninsular Acoustics has been appointed by Create it Studios to undertake additional noise measurements at 101 Queens Road, Manchester, using the shortened CRTN procedure to verify that the noise levels measured in the initial planning report PA0069 are still valid and the specification designs do not need to be adjusted.

2.0 NOISE MEASUREMENTS

Noise levels were monitored using Class 1 integrating/averaging Sound Level Meters (SLMs), with the location A measurement equipment housed in environmental protection apparatus. The SLM was field calibrated before and after the survey using a Class 1 calibrator, with no significant drift in calibration levels recorded (> ± 0.5dB).

Please see the following measurements taken 3m from the road Queens Road.

Start Time	Duration	Unit	LAeq	LAFmax	LAF,10	LAF,90
11/06/2025 12:00:00	01:00:00.000	dB	67.2	87.5	70.2	59.1
11/06/2025 13:00:00	01:00:00.000	dB	67.8	91.2	70.3	59.2
11/06/2025 14:00:00	01:00:00.000	dB	69.3	96.0	70.8	60.6

These measurements can then be used to calculate the 16hour daytime after distance attenuating. Measurement positions 3m from the carriageway, and the proposed dwellings are 8.5m from the carriageway.

Crtn Shortened Procedure L10(18hour) = L10(3hour) - 1	**L10(18hour)**	**69.4**
LAeq(16hour) conversion from BS 8233 L10(18hr) - 2dB	**LAeq(16hour)**	**67.4**
Distance attenuated freefield level at building line.	**LAeq(16hour)**	**62.9**

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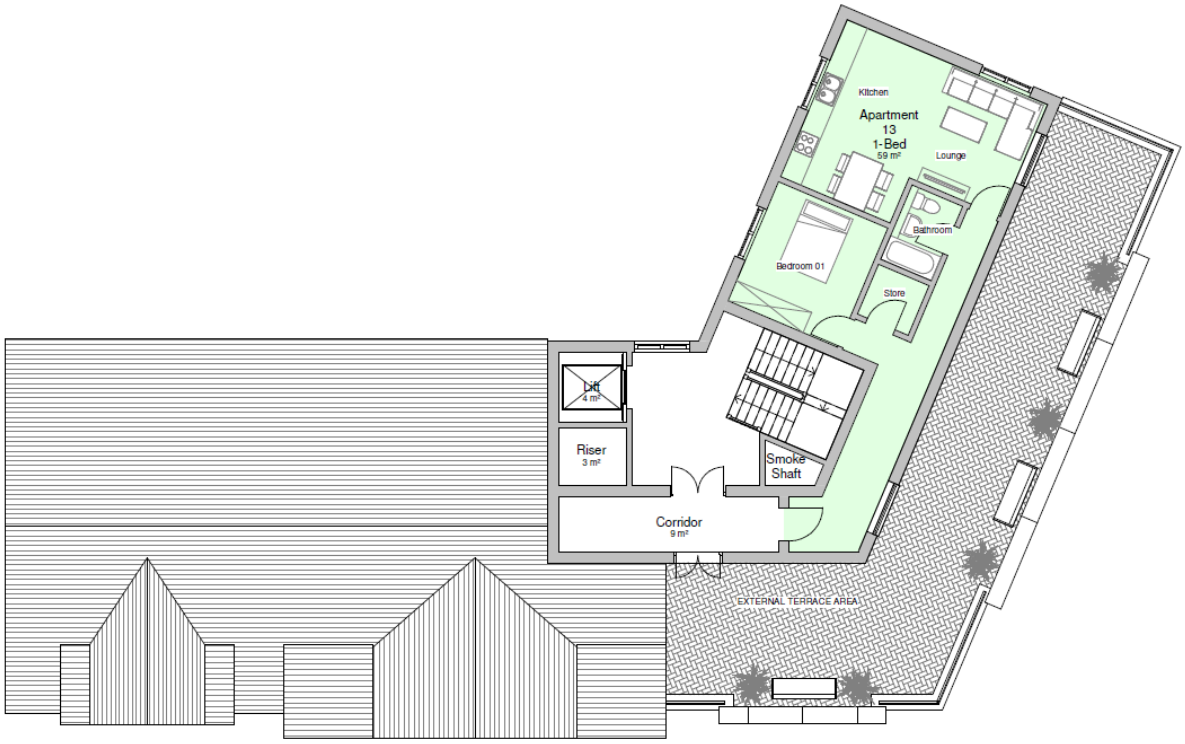
In comparison with report PA0069 the daytime $L_{Aeq,16hr}$ is 6dB lower than previously calculated / measured in July 2023. On this basis, the previous survey data undertaken continuously over several days is considered sufficiently reliable to inform current exposure.

3.0 PROPOSED THIRD FLOOR

Previously in planning report PA0069, the proposed block of flats was a three storey, however, there is now the addition of a flat at 3rd floor level.



1 Proposed South Elevation
1 : 100



4 Proposed Third Floor Plan
1 : 100

The new 3rd floor flat is set further back from the road, due to the inclusion of a roof terrace area, which potentially partially takes the external walls and windows out of direct line of sight of the road, allowing for an element of shielding by the building. It is noted the external walls are to remain as masonry, however there is a flat roof proposed, which is completely out of sight of the roads.

3.1 Previous Specifications Report PA0069

Report PA0069 specified the external façade sound insulation requirements, in conjunction with a mechanical ventilation system with heat recovery.

5.2.4. FAÇADE SOUND INSULATION

The level of façade sound insulation is to be deigned to uphold adequate ventilation as required by Approved Document F. The octave band noise levels measured and then distance propagated from Measurement position A have been used as the basis of the noise break-in calculations. A standard façade construction throughout the development is to comprise the following elements:

- a traditional cavity masonry external wall of R_w 51 dB
- a concrete tiled pitched roof with 9 mm plasterboard coil and 2no.50mm fiberglass of R_w 42 dB
- thermally specified double glazing of configuration 4mm glass / 12mm air space / 4mm glass of R_w 30 dB

Table 7 sets out the sound insulation provision and upper noise limit when using this standard construction, and the details of increased sound insulation performance using where required.

Ref.	Upgrade on Standard Construction	Outside to Inside Level Difference	External Upper Noise Limit
Type A	None	30 dB ($L_{Aeq,T}$ and L_{AFmax})	Daytime $L_{Aeq,16h}$: 65 dB Night-time $L_{Aeq,8h}$: 60 dB Night-time L_{AFmax}: 75 dB
Type B	Improved double glazing of 6mm glass / 27mm air space / 10mm glass of Rw 41 dB	36 dB ($L_{Aeq,T}$) 37 dB (L_{AFmax})	Daytime $L_{Aeq,16h}$: 71 dB Night-time $L_{Aeq,8h}$: 66 dB Night-time L_{AFmax}: 82 dB

3.2 Specification Adaptation for Third Floor

As in the previous report, windows on the Queens Road façade should adopt the Type B specification, while windows at the rear should adopt the Type A specification, as shown above.

This assumes the external walls achieve R_w 51dB and the roof provides R_w 42dB, as detailed in the previous report.

4.0 CONCLUSION

The daytime road noise levels on Queens Road, Cheetham Hill impacting on the proposed new build block of flats have reduced by 6dBA LAeq based on the sample measurements taken.

The reduction in daytime road noise at the proposed site implies that the specifications previously detailed in PA0069 Noise Assessment Report are still suitable for use.

This update assumes there have been no other changes to the local noise environment, since the previous report PA0067.

Should you require any further information or clarification, please do not hesitate to contact me.

Kind Regards,

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