



Ref: P4863/L01/RDC

03 May 2023

To:	Johnson Mulk	of:	Gleeson
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Corner Plot, Hilltop Park, Rochdale – Verification Testing**1.0 Introduction**

Noise measurements were undertaken within Plot 93 (located on the south-western elevation of the site), at the Hilltop Park development, Rochdale, on Tuesday 25 April 2023. The results of the testing and our comments are presented in this technical note.

AEC has been informed by Gleeson, that the properties are ventilated via a positive input ventilation (PIV) system. Therefore, neither openable windows or trickle vents are relied upon for whole dwelling (background) ventilation. The build-up of the glazing has not been provided.

These measurements were required to confirm that the installed glazing and ventilation strategy complies with the Local Authority requirements for internal noise levels.

2.0 Measured Noise Levels

Simultaneous noise level measurements were undertaken both external to and within the kitchen/dining room and first floor bedroom of the property.

All measurements were carried out in general accordance with BS EN ISO 16283-3:2016 'Acoustics – Field measurement of sound insulation in buildings and of building elements. Part 3: Façade Sound Insulation'.

The measured external and internal noise level measurements are presented in Table 2.1, below, along with the internal noise level limits to comply the Local Authority requirements are also presented.

Table 1 – Measured Resultant Level Difference & Calculated Internal Noise Levels

Room	Road Traffic Noise, dB(A)		Criterion Met?
	Resultant Internal Noise Level $L_{Aeq,T}$	Internal Target Criteria $L_{Aeq,T}$	
Living Room / Kitchen	33	≤ 35	✓
Bedroom 1	32	≤ 30	✓

*1dB is considered within acceptable measurement tolerance

In relation to maximum noise levels in the bedroom, these did not exceed $40dB L_{Amax,F}$ and, therefore, the requirement to not exceed $45dB L_{Amax,F}$ during the night-time period would be met.

Based on the above, the internal noise levels are within the required limits and hence the glazing is suitable and performing as expected.

Yours sincerely

Ross Chamberlain

Checked by:

PJK