



**Land at
60-62 Clarence Road,
Longsight,
M13 0FY**

Noise Assessment

Addendum October 2021

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1. Introduction

- 1.1. In July 2021 an acoustic assessment was commissioned and completed to support the discharge of a planning condition attached to planning permission 129121/FO/2021 granted by Manchester City Council for a residential development on land adjacent to 60-62 Clarence Road, Manchester, M13 0YF.
- 1.2. Comments have now been received from the Council's Environmental Health Department regarding the level of attenuation offered by an open window.
- 1.3. The Department disagree with the recognised 15dB attenuation¹ for an open window and instead suggest that a maximum of 12-13dB attenuation should be considered for an open window.
- 1.4. Taking this level of attenuation, the internal sound levels within habitable rooms during the day and night-time periods would potentially exceed that guideline value of 35dB $L_{Aeq,16hr}$ criterion, and 45dB L_{Amax} respectfully at 33.1dB(A) daytime and 47.1dB(A) night-time maximum.
- 1.5. It is therefore recommended that additional mitigation measures are included within the design of the proposed dwelling to ensure that the criterion values are achieved and that no adverse impact is experienced by the future residents.
- 1.6. The mitigation measures recommended include the provision of standard 6/12/6 double glazing units to all habitable rooms. This specification of glazing will provide a sound reduction, $R_w(C;C_{tr})$, of 33(-1;-3) when closed and so will be suitable to ensure the above criterion are achieved.
- 1.7. The above glazing specification will result in internal daytime sound levels of 15.1dB(A) and night-time average sound levels of 11.7dB(A) with maximum night-time sound levels not regularly exceeded of 29.1dB(A), well below the guideline recommended criterion.
- 1.8. To able windows to be kept closed additional ventilation provision must be made for the property. As such it is recommended that a ventilation system is used

¹ BS8233: 2014; Guidance on sound insulation and noise reduction for buildings

incorporating acoustic trickle ventilators for all windows to habitable rooms to the proposed properties. The ventilators must achieve a similar or better performance to the windows when open and a number of suitable models are available from suppliers including the Greenwood DN Vent providing 34dB (C_{tr}) attenuation or the Titon, Trimvent Select S13 Ventilator providing 33dB (C_{tr}) attenuation. Other models and manufacturers are available.

- 1.9. Care must be taken to ensure that windows are well fitted and gaps between the window frame and the brick work are minimised. Where gaps do occur, these should be filled with a suitable acoustic material, not expandable foam. The window frame should be sealed across the full depth of the frame and not just around the edges. This will ensure that sound does not 'leak' around the edge of the frame.

2. Conclusion

- 2.1. The above mitigation measures will ensure sufficient protection is afforded to the internal rooms within the proposed dwelling, achieving the recorded internal sound level identified within BS8233: 2014 'Guidance on sound insulation and noise reduction for buildings' and the World Health Organisation (WHO) as Guidelines for the prevention of Community Noise Annoyance.
- 2.2. The inclusion of the above mitigation measures to all habitable rooms will ensure that the internal and external sound levels are acceptable and will result in a No Observe Effect on the future residents in line with the Noise Policy Statement for England.
- 2.3. As such the development will meet the objectives of the National Planning Policy Framework in ensuring that no significant adverse impact is experienced by the future residents. The development is therefore considered to be acceptable in terms of noise.