

Noise Assessment

INTRODUCTION

For the benefit of Bury Council this assessment has been formulated to support the proposed Prior Approval Application for the above site, to convert the ancillary elements to the shop into 3 No. Apartments whilst retaining the existing shop front from the already existing retail space.

As part of the development the guidance relating to noise within the environment has been taken into consideration and subsequently the following report has been set out to meet the criteria required in the assessment of such developments.

DESCRIPTION OF THE NOISE CLIMATE

Situated in the Centre of Radcliffe, this site accessed from the lane off Abden St. By day the noise that comes from the traffic is elevated due to intense usage however, by night it is substantially quieter. There are numerous shops / restaurants situated along Blackburn Street including; offices, restaurants, nursery etc. Traffic to the retail units in this vicinity can be classified as incidental and is reasonably light during work hours.

NOISE ASSESSMENT CRITERIA

The following guidance documents and standards, relevant to this development include;

- National Planning POLICY Framework (NPPF) 2012
- PPG24- Planning and noise (Now withdrawn)
- World Health Organisation Guidance
- British Standard 8233:2014

In making planning decisions the Local Authority takes into account the noise level as set out in the National Planning Policy Framework 2012. In Paragraph 123 of the NPPF it states that planning policies and decisions relating to them should aim to consider the following points:

- Avoid noise giving rise to significant adverse impacts on health and quality of life as a result of new development.
- Mitigate and reduce to a minimum other adverse impact on health and quality of life arising from noise from new development, including through the use of conditions.
- The National Planning Policy Framework states that the planning system should *prevent both new and existing development from contributing to or being put at an unacceptable risk from, or being adversely affected by unacceptable levels of soil, air, water or noise pollution or land instability*.

Although withdrawn, the Planning Guidance Note PPG24 still provides guidance specifically related to acoustic assessment and design as a criteria for residential properties (this is not currently part of the NPPF document). In PPG24 it sets out clearly the government guidance in relation to the planning powers by the Local Authorities in order to reduce the unfavorable effects of noise in the built up environment. PPG determines in particular, Noise Exposure Categories that are directly applicable to new residential developments affected by traffic noise or by other noise sources in which industrial noise is not the dominate.

The World Health Organisation- It was proposed by the World Health Organisation in 1980 that consideration of noise levels at which sleep disturbance could take place an environmental health criteria should be considered. The World Health Organisation amended these guidelines in 1999. It was suggested in the guidance that *an internal LAeq below 30 dB is required to fully preserve the restorative process of sleep.*

In the code of practice for sound insulation there are a variety of building types identified as being affected by general environmental noise (British Standard 8233:2014 - BS8233). It therefore provides recommendations for the control of noise in and around those buildings and suggests that a suitable criteria be used to gauge the limits for a variety of different situations including residential properties.

Room Type	Noise Limit 07:00-23:00 LAeq, 16hr	Noise Limit 23:00-7.00 LAeq, 8hr
Living Room	35	-
Dining Room	40	-
Bedroom	35	30

RECOMMENDATIONS FOR NOISE MITIGATION

In the following section below, it sets out the proposed noise measures that are required in order to satisfy the noise assessment criteria so satisfying the noise conditions within the apartments. Potentially, the noise from traffic along Manor Lane and Well Croft would be an issue that could be remedied.

Location	Glazing Specifications (overall to include frame)	Proposed Glazing Types
All external windows	Airborne sound insulation RW 32dB	Windows replaced with high quality acoustic double glazing (e.g. 4/12/10mm glass) in a well sealed frame.

CONCLUSION

It is proposed that in order to comply with the noise standards as stated in section 3 of this assessment, the following is recommended in order to be protected by the noise mitigation measures indicated above.

- Rw32dB glazing to all bedrooms and living rooms
- Enhanced background ventilation to all bedrooms/living /living rooms to preclude the need to open windows for ventilation in periods of warm weather
- Adequate sound insulation for the facade and ceiling elements of the building.