

Noise Assessment

81 London Street
Reading
RG1 4QA

November 2023

Introduction

This Noise Assessment has been prepared to assess the potential noise impact from the proposed development at 81 London Street. The assessment has been undertaken in accordance with the Noise Policy Statement for England (NPSE) and the Reading Borough Local Plan.

Existing Noise Environment

The existing noise environment at 81 London Street is dominated by road traffic noise from London Street.

Noise Impact

The proposed development will consist of a mixed-use development comprising residential, commercial and retail units. The residential units will be located at the upper levels of the development and will be exposed to noise from London Street. The predicted noise levels at the residential units will be minimal.

The predicted noise levels at the residential units will meet the World Health Organization (WHO) recommended noise levels for bedrooms and living rooms. The WHO recommends that noise levels in bedrooms should not exceed 30 dB LAeq at night and 45 dB LAeq during the day. The WHO recommends that noise levels in living rooms should not exceed 45 dB LAeq at night and 55 dB LAeq during the day.

Mitigation Measures

The following mitigation measures will be implemented to reduce the noise impact on the residential units:

- All windows and doors facing London Street will be fitted with high-performance acoustic glazing.
- The building will be designed to incorporate sound insulation measures to reduce the transmission of noise from London Street to the residential units.

- Mechanical plant and equipment will be located in areas of the building where they will have the least impact on the residential units.

Conclusion

The proposed development will not have a significant noise impact on the residential units. The predicted noise levels at the residential will meet the WHO recommended noise levels for bedrooms and living rooms. The mitigation measures described above will be implemented to further reduce the noise impact on the residential units.