

Project No. 24742v2

# 48 Store Street, Manchester

## Noise Survey

Four Architects



| Revision | Date | Prepared By | Reviewed By | Comments |
|---|---|---|---|---|
| V1 | 29/04/26 | Bailey Hoare | Jonathon Hill | First Issue |
| V2 | 30/04/26 | Bailey Hoare | Jonathon Hill | Minor Amendments |

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## Limitations to this Report

This report entails a physical investigation of the site with a sufficient number of sample measurements to provide quantitative information concerning the type and degree of noise affecting the site. The objectives of the investigation have been limited to establishing sources of noise material to carrying out an appropriate assessment.

The number and duration of noise measurements have been chosen to give reasonably representative information on the environment within the agreed time, and the locations of measurements have been restricted to the areas unoccupied by building(s) that are easily accessible without undue risk to our staff.

As with any sampling, the number of sampling points and the methods of sampling and testing cannot preclude the existence of "hotspots" where noise levels may be significantly higher than those actually measured due to previously unknown or unrecognised noise emitters. Furthermore, noise sources may be intermittent or fluctuate in intensity and consequently may not be present or may not be present in full intensity for some or all of the survey duration.



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# 1.0 Introduction

## Details of Instruction

Four Architects appointed enevo to carry out a noise survey for the proposed residential development at 48 Store Street, Manchester.

This report describes a noise survey of the site and the subsequent analysis to determine the noise environment of the proposed development. It then compares the results with the adopted criteria and, where applicable, recommendations are made with respect to the design of the development.

To support this document a glossary of technical terminology is included in Appendix A.

## Site Conditions

The site is a disused piece of land along Store Street. The site is bound by residential dwellings to the south and east with store street to the north along with the canal with the Diecast bar further afield. The proposals are to construct a multi storey residential building.



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# 2.0 Guidance

## British Standard (BS) 7445-1:2003 – Description and Measurement of Environmental Noise – Part 1: Guide to Quantities and Procedures

This document defines the basic quantities to be used for the description of noise in community environments and describes basic procedures for the determination of these quantities.

The methods and procedures described in this British Standard are intended to be applicable to sounds from all sources, individually and in combination, which contribute to the total noise at a site. This British Standard does not specify limits for environmental noise.

## BS 8233:2014 – Guidance of Sound Insulation and Noise Reduction in Buildings

BS 8233:2014 provides a methodology to calculate the noise levels entering a building through facades and façade elements. It also provides details of appropriate measures for sound insulation between dwellings and recommended internal noise levels which are provided for a variety of situations.

## ISO 9613 Attenuation of Sound During Propagation Outdoors

IS0 9613 presents a calculation methodology for the determination of the attenuation of sound outdoors. The methodology enables the prediction the levels of environmental noise at a distance from a variety of sources.



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# 3.0 Environmental Noise Survey

Noise measurements were undertaken externally during both the daytime and night-time. The measurements were taken from 9th to 13th of April 2026.

## Survey Methodology and Locations

The equipment used during this survey is listed below in Table 4 and have been calibrated before and after the measurement duration and no significant drift was found to have occurred (>0.2dB). The noise monitoring equipment has been calibrated to a traceable standard within the 24 months before the survey.

**Table 4**
**Noise Monitoring Equipment**

| Equipment | Serial Number |
|---|---|
| Nti XL3 Sound Level Meter | 02237 |

One measurement location have been surveyed in order to establish both the ambient and background noise levels at the site. Figure 1 below shows the measurement locations in relation the proposed site.

**Figure 1**
**Noise Monitoring Locations**






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## Survey Results

All weather showed no precipitation and low wind speeds under 5 m/s.

Table 5 below, shows the results of the survey. Full survey results are detailed in section 4.0 below.

**Table 5**

**Summary of Measured Nosie Levels – dB**

| Location | Date | Period | Time (h) | $L_{Aeq, T}$ | $L_{A90}$ | $L_{AfMax}$ |
|---|---|---|---|---|---|---|
| 1 | 09/04/2026 | Daytime | 2000-2300 | 59.4 | 46.1 | 79.6 |
| | 09/04/26 - 10/04/26 | Night-time | 2300-0700 | 57.8 | 41.8 | 94.6 |
| | 10/04/2026 | Daytime | 0700-2300 | 60.8 | 47.3 | 90.7 |
| | 10/04/26 - 11/04/26 | Night-time | 2300-0000 | 57.9 | 44.6 | 90.5 |
| | 11/04/2026 | Daytime | 0700-2300 | 61.4 | 49.3 | 96.5 |
| | 11/04/26 - 12/04/26 | Night-time | 2300-0700 | 58.6 | 46.2 | 78.8 |
| | 12/04/2026 | Daytime | 0700-2300 | 60.1 | 46.5 | 93.5 |
| | 12/04/26 - 13/04/26 | Night-time | 2300-0700 | 57.4 | 40.0 | 79.7 |
| | 13/04/2026 | Daytime | 0700-1030 | 61.9 | 47.1 | 92.3 |



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# 4.0 Full Survey Results

**Table 6**

**Full Survey Data Location 1 Data**

| Date | Duration | $L_{Aeq, T}$ | $L_{A90}$ | $L_{AfMax}$ |
|---|---|---|---|---|
| 2026-04-09 20:00:00 | 15 min | 59.7 | 48.4 | 72.1 |
| 2026-04-09 20:15:00 | 15 min | 60.3 | 49.0 | 69.3 |
| 2026-04-09 20:30:00 | 15 min | 59.2 | 47.4 | 71.6 |
| 2026-04-09 20:45:00 | 15 min | 59.0 | 46.7 | 74.1 |
| 2026-04-09 21:00:00 | 15 min | 59.3 | 46.6 | 76.9 |
| 2026-04-09 21:15:00 | 15 min | 58.9 | 45.4 | 70.8 |
| 2026-04-09 21:30:00 | 15 min | 59.8 | 45.4 | 78.7 |
| 2026-04-09 21:45:00 | 15 min | 59.9 | 46.2 | 79.6 |
| 2026-04-09 22:00:00 | 15 min | 59.2 | 44.4 | 74.5 |
| 2026-04-09 22:15:00 | 15 min | 59.8 | 45.0 | 74.6 |
| 2026-04-09 22:30:00 | 15 min | 58.7 | 43.4 | 72.7 |
| 2026-04-09 22:45:00 | 15 min | 59.0 | 45.3 | 75.0 |
| 2026-04-09 23:00:00 | 15 min | 57.6 | 43.6 | 71.6 |
| 2026-04-09 23:15:00 | 15 min | 58.7 | 43.7 | 74.4 |
| 2026-04-09 23:30:00 | 15 min | 57.7 | 43.8 | 70.5 |
| 2026-04-09 23:45:00 | 15 min | 54.7 | 41.2 | 72.3 |
| 2026-04-10 00:00:00 | 15 min | 58.1 | 42.0 | 72.1 |
| 2026-04-10 00:15:00 | 15 min | 56.4 | 41.3 | 73.4 |
| 2026-04-10 00:30:00 | 15 min | 58.7 | 41.7 | 83.7 |
| 2026-04-10 00:45:00 | 15 min | 55.2 | 41.3 | 70.5 |
| 2026-04-10 01:00:00 | 15 min | 55.8 | 41.4 | 69.6 |
| 2026-04-10 01:15:00 | 15 min | 53.7 | 40.5 | 70.0 |
| 2026-04-10 01:30:00 | 15 min | 53.9 | 41.1 | 73.5 |
| 2026-04-10 01:45:00 | 15 min | 55.6 | 40.5 | 71.0 |
| 2026-04-10 02:00:00 | 15 min | 55.3 | 40.0 | 71.6 |
| 2026-04-10 02:15:00 | 15 min | 53.9 | 40.8 | 75.6 |
| 2026-04-10 02:30:00 | 15 min | 57.7 | 41.6 | 79.9 |
| 2026-04-10 02:45:00 | 15 min | 54.7 | 39.3 | 73.5 |
| 2026-04-10 03:00:00 | 15 min | 51.3 | 39.1 | 70.0 |
| 2026-04-10 03:15:00 | 15 min | 54.3 | 39.9 | 72.8 |
| 2026-04-10 03:30:00 | 15 min | 53.3 | 40.3 | 73.2 |
| 2026-04-10 03:45:00 | 15 min | 55.2 | 38.9 | 72.0 |
| 2026-04-10 04:00:00 | 15 min | 56.3 | 39.1 | 72.0 |
| 2026-04-10 04:15:00 | 15 min | 56.2 | 38.8 | 75.6 |
| 2026-04-10 04:30:00 | 15 min | 57.7 | 39.4 | 73.7 |
| 2026-04-10 04:45:00 | 15 min | 55.8 | 40.4 | 71.2 |
| 2026-04-10 05:00:00 | 15 min | 58.3 | 43.1 | 73.6 |
| 2026-04-10 05:15:00 | 15 min | 55.5 | 42.5 | 69.7 |
| 2026-04-10 05:30:00 | 15 min | 58.3 | 43.7 | 72.8 |
| 2026-04-10 05:45:00 | 15 min | 58.9 | 44.5 | 71.6 |
| 2026-04-10 06:00:00 | 15 min | 59.6 | 45.4 | 81.5 |
| 2026-04-10 06:15:00 | 15 min | 61.3 | 45.7 | 75.9 |
| 2026-04-10 06:30:00 | 15 min | 65.0 | 45.4 | 94.6 |



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|---|---|---|---|---|
| **2026-04-10 06:45:00** | 15 min | 62.5 | 46.3 | 79.0 |
| **2026-04-10 07:00:00** | 15 min | 62.8 | 47.3 | 74.4 |
| **2026-04-10 07:15:00** | 15 min | 62.7 | 49.0 | 75.2 |
| **2026-04-10 07:30:00** | 15 min | 62.0 | 48.6 | 74.8 |
| **2026-04-10 07:45:00** | 15 min | 63.4 | 49.7 | 82.1 |
| **2026-04-10 08:00:00** | 15 min | 61.7 | 46.4 | 74.9 |
| **2026-04-10 08:15:00** | 15 min | 64.8 | 48.2 | 86.2 |
| **2026-04-10 08:30:00** | 15 min | 61.9 | 47.4 | 74.4 |
| **2026-04-10 08:45:00** | 15 min | 60.9 | 47.2 | 81.5 |
| **2026-04-10 09:00:00** | 15 min | 62.4 | 45.8 | 85.7 |
| **2026-04-10 09:15:00** | 15 min | 62.0 | 47.6 | 72.4 |
| **2026-04-10 09:30:00** | 15 min | 59.9 | 46.4 | 74.5 |
| **2026-04-10 09:45:00** | 15 min | 61.3 | 46.4 | 75.0 |
| **2026-04-10 10:00:00** | 15 min | 60.0 | 47.6 | 78.3 |
| **2026-04-10 10:15:00** | 15 min | 60.4 | 46.2 | 72.5 |
| **2026-04-10 10:30:00** | 15 min | 60.1 | 46.7 | 76.4 |
| **2026-04-10 10:45:00** | 15 min | 59.9 | 46.2 | 74.7 |
| **2026-04-10 11:00:00** | 15 min | 60.0 | 46.8 | 77.9 |
| **2026-04-10 11:15:00** | 15 min | 60.9 | 47.5 | 83.6 |
| **2026-04-10 11:30:00** | 15 min | 60.4 | 49.0 | 73.3 |
| **2026-04-10 11:45:00** | 15 min | 61.4 | 48.3 | 87.3 |
| **2026-04-10 12:00:00** | 15 min | 60.4 | 46.9 | 73.8 |
| **2026-04-10 12:15:00** | 15 min | 60.0 | 47.2 | 71.7 |
| **2026-04-10 12:30:00** | 15 min | 60.5 | 46.5 | 73.8 |
| **2026-04-10 12:45:00** | 15 min | 60.0 | 47.5 | 72.7 |
| **2026-04-10 13:00:00** | 15 min | 58.9 | 46.1 | 69.6 |
| **2026-04-10 13:15:00** | 15 min | 60.0 | 47.6 | 71.7 |
| **2026-04-10 13:30:00** | 15 min | 60.9 | 46.5 | 77.7 |
| **2026-04-10 13:45:00** | 15 min | 59.3 | 46.7 | 78.0 |
| **2026-04-10 14:00:00** | 15 min | 60.0 | 45.9 | 74.8 |
| **2026-04-10 14:15:00** | 15 min | 58.8 | 45.3 | 69.5 |
| **2026-04-10 14:30:00** | 15 min | 60.6 | 47.2 | 76.3 |
| **2026-04-10 14:45:00** | 15 min | 59.2 | 47.7 | 76.2 |
| **2026-04-10 15:00:00** | 15 min | 63.4 | 47.9 | 90.7 |
| **2026-04-10 15:15:00** | 15 min | 62.0 | 50.3 | 87.0 |
| **2026-04-10 15:30:00** | 15 min | 63.6 | 48.8 | 84.9 |
| **2026-04-10 15:45:00** | 15 min | 60.0 | 49.5 | 76.4 |
| **2026-04-10 16:00:00** | 15 min | 60.2 | 48.5 | 77.3 |
| **2026-04-10 16:15:00** | 15 min | 64.0 | 49.8 | 88.7 |
| **2026-04-10 16:30:00** | 15 min | 60.6 | 49.6 | 70.7 |
| **2026-04-10 16:45:00** | 15 min | 60.9 | 50.4 | 73.3 |
| **2026-04-10 17:00:00** | 15 min | 61.3 | 49.1 | 70.3 |
| **2026-04-10 17:15:00** | 15 min | 61.1 | 50.1 | 73.4 |
| **2026-04-10 17:30:00** | 15 min | 62.2 | 49.5 | 78.1 |
| **2026-04-10 17:45:00** | 15 min | 60.2 | 47.9 | 70.8 |
| **2026-04-10 18:00:00** | 15 min | 60.4 | 48.7 | 73.6 |
| **2026-04-10 18:15:00** | 15 min | 62.2 | 48.6 | 87.8 |
| **2026-04-10 18:30:00** | 15 min | 60.3 | 48.7 | 71.9 |
| **2026-04-10 18:45:00** | 15 min | 60.2 | 49.1 | 73.7 |



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|---|---|---|---|---|
| **2026-04-10 19:00:00** | 15 min | 59.7 | 48.0 | 72.8 |
| **2026-04-10 19:15:00** | 15 min | 61.4 | 47.7 | 80.8 |
| **2026-04-10 19:30:00** | 15 min | 59.8 | 46.6 | 71.5 |
| **2026-04-10 19:45:00** | 15 min | 60.0 | 47.0 | 78.0 |
| **2026-04-10 20:00:00** | 15 min | 58.0 | 45.5 | 69.2 |
| **2026-04-10 20:15:00** | 15 min | 58.3 | 45.8 | 74.8 |
| **2026-04-10 20:30:00** | 15 min | 58.5 | 45.1 | 76.2 |
| **2026-04-10 20:45:00** | 15 min | 59.2 | 45.0 | 73.4 |
| **2026-04-10 21:00:00** | 15 min | 58.9 | 43.6 | 75.0 |
| **2026-04-10 21:15:00** | 15 min | 58.4 | 46.1 | 69.6 |
| **2026-04-10 21:30:00** | 15 min | 57.6 | 43.5 | 70.4 |
| **2026-04-10 21:45:00** | 15 min | 58.6 | 44.7 | 73.6 |
| **2026-04-10 22:00:00** | 15 min | 58.5 | 46.3 | 72.4 |
| **2026-04-10 22:15:00** | 15 min | 58.7 | 44.6 | 76.6 |
| **2026-04-10 22:30:00** | 15 min | 57.3 | 44.7 | 68.4 |
| **2026-04-10 22:45:00** | 15 min | 57.7 | 44.2 | 72.3 |
| **2026-04-10 23:00:00** | 15 min | 58.7 | 44.3 | 72.8 |
| **2026-04-10 23:15:00** | 15 min | 58.6 | 46.1 | 74.7 |
| **2026-04-10 23:30:00** | 15 min | 58.1 | 48.2 | 70.4 |
| **2026-04-10 23:45:00** | 15 min | 58.2 | 48.9 | 71.2 |
| **2026-04-11 00:00:00** | 15 min | 57.3 | 48.7 | 73.0 |
| **2026-04-11 00:15:00** | 15 min | 58.3 | 48.9 | 72.3 |
| **2026-04-11 00:30:00** | 15 min | 56.3 | 44.3 | 69.9 |
| **2026-04-11 00:45:00** | 15 min | 58.3 | 46.0 | 76.7 |
| **2026-04-11 01:00:00** | 15 min | 57.2 | 44.3 | 72.2 |
| **2026-04-11 01:15:00** | 15 min | 57.1 | 42.2 | 71.5 |
| **2026-04-11 01:30:00** | 15 min | 57.8 | 41.9 | 73.3 |
| **2026-04-11 01:45:00** | 15 min | 61.9 | 41.1 | 90.5 |
| **2026-04-11 02:00:00** | 15 min | 54.7 | 41.6 | 69.9 |
| **2026-04-11 02:15:00** | 15 min | 55.6 | 41.8 | 70.4 |
| **2026-04-11 02:30:00** | 15 min | 53.9 | 43.7 | 69.1 |
| **2026-04-11 02:45:00** | 15 min | 55.8 | 42.0 | 73.8 |
| **2026-04-11 03:00:00** | 15 min | 55.4 | 40.9 | 72.6 |
| **2026-04-11 03:15:00** | 15 min | 52.4 | 41.3 | 70.8 |
| **2026-04-11 03:30:00** | 15 min | 54.9 | 42.6 | 68.6 |
| **2026-04-11 03:45:00** | 15 min | 56.3 | 40.4 | 78.2 |
| **2026-04-11 04:00:00** | 15 min | 55.2 | 42.2 | 73.6 |
| **2026-04-11 04:15:00** | 15 min | 56.1 | 42.9 | 72.7 |
| **2026-04-11 04:30:00** | 15 min | 57.3 | 44.8 | 79.8 |
| **2026-04-11 04:45:00** | 15 min | 56.3 | 45.0 | 71.0 |
| **2026-04-11 05:00:00** | 15 min | 57.3 | 45.3 | 75.5 |
| **2026-04-11 05:15:00** | 15 min | 57.8 | 45.5 | 74.4 |
| **2026-04-11 05:30:00** | 15 min | 58.3 | 45.0 | 77.4 |
| **2026-04-11 05:45:00** | 15 min | 58.0 | 45.1 | 72.8 |
| **2026-04-11 06:00:00** | 15 min | 58.2 | 47.2 | 72.0 |
| **2026-04-11 06:15:00** | 15 min | 61.0 | 49.3 | 75.8 |
| **2026-04-11 06:30:00** | 15 min | 61.1 | 48.2 | 74.4 |
| **2026-04-11 06:45:00** | 15 min | 61.5 | 47.6 | 80.5 |
| **2026-04-11 07:00:00** | 15 min | 59.7 | 46.6 | 73.3 |



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|---|---|---|---|---|
| **2026-04-11 07:15:00** | 15 min | 61.2 | 48.6 | 75.9 |
| **2026-04-11 07:30:00** | 15 min | 61.0 | 49.9 | 75.4 |
| **2026-04-11 07:45:00** | 15 min | 61.4 | 49.2 | 72.8 |
| **2026-04-11 08:00:00** | 15 min | 60.9 | 46.1 | 75.6 |
| **2026-04-11 08:15:00** | 15 min | 60.9 | 48.2 | 76.9 |
| **2026-04-11 08:30:00** | 15 min | 63.9 | 46.6 | 91.9 |
| **2026-04-11 08:45:00** | 15 min | 60.8 | 47.5 | 73.2 |
| **2026-04-11 09:00:00** | 15 min | 61.4 | 45.9 | 82.3 |
| **2026-04-11 09:15:00** | 15 min | 61.6 | 47.1 | 76.6 |
| **2026-04-11 09:30:00** | 15 min | 60.4 | 47.0 | 72.1 |
| **2026-04-11 09:45:00** | 15 min | 60.7 | 48.3 | 78.5 |
| **2026-04-11 10:00:00** | 15 min | 61.3 | 47.8 | 72.5 |
| **2026-04-11 10:15:00** | 15 min | 61.2 | 49.1 | 77.7 |
| **2026-04-11 10:30:00** | 15 min | 61.5 | 51.2 | 74.4 |
| **2026-04-11 10:45:00** | 15 min | 61.0 | 47.8 | 83.0 |
| **2026-04-11 11:00:00** | 15 min | 60.4 | 49.2 | 73.3 |
| **2026-04-11 11:15:00** | 15 min | 61.0 | 49.6 | 75.4 |
| **2026-04-11 11:30:00** | 15 min | 62.1 | 48.7 | 76.6 |
| **2026-04-11 11:45:00** | 15 min | 60.2 | 49.0 | 72.5 |
| **2026-04-11 12:00:00** | 15 min | 61.3 | 49.9 | 80.0 |
| **2026-04-11 12:15:00** | 15 min | 60.9 | 49.4 | 71.1 |
| **2026-04-11 12:30:00** | 15 min | 60.4 | 49.9 | 75.1 |
| **2026-04-11 12:45:00** | 15 min | 60.5 | 47.6 | 75.9 |
| **2026-04-11 13:00:00** | 15 min | 60.7 | 47.8 | 71.6 |
| **2026-04-11 13:15:00** | 15 min | 60.4 | 49.1 | 77.7 |
| **2026-04-11 13:30:00** | 15 min | 59.9 | 48.9 | 70.0 |
| **2026-04-11 13:45:00** | 15 min | 60.3 | 47.9 | 72.1 |
| **2026-04-11 14:00:00** | 15 min | 59.8 | 50.3 | 71.8 |
| **2026-04-11 14:15:00** | 15 min | 60.2 | 50.5 | 72.5 |
| **2026-04-11 14:30:00** | 15 min | 61.1 | 51.0 | 72.7 |
| **2026-04-11 14:45:00** | 15 min | 59.7 | 50.1 | 70.3 |
| **2026-04-11 15:00:00** | 15 min | 60.5 | 49.3 | 82.2 |
| **2026-04-11 15:15:00** | 15 min | 62.2 | 50.4 | 83.9 |
| **2026-04-11 15:30:00** | 15 min | 65.4 | 50.1 | 93.7 |
| **2026-04-11 15:45:00** | 15 min | 59.2 | 49.3 | 75.6 |
| **2026-04-11 16:00:00** | 15 min | 59.9 | 50.0 | 73.7 |
| **2026-04-11 16:15:00** | 15 min | 60.5 | 49.7 | 72.3 |
| **2026-04-11 16:30:00** | 15 min | 68.5 | 49.4 | 96.5 |
| **2026-04-11 16:45:00** | 15 min | 61.4 | 49.2 | 76.6 |
| **2026-04-11 17:00:00** | 15 min | 61.5 | 51.6 | 71.6 |
| **2026-04-11 17:15:00** | 15 min | 61.8 | 50.1 | 80.4 |
| **2026-04-11 17:30:00** | 15 min | 61.3 | 50.7 | 71.0 |
| **2026-04-11 17:45:00** | 15 min | 60.7 | 51.1 | 75.6 |
| **2026-04-11 18:00:00** | 15 min | 60.6 | 49.8 | 73.5 |
| **2026-04-11 18:15:00** | 15 min | 60.8 | 49.7 | 71.2 |
| **2026-04-11 18:30:00** | 15 min | 60.7 | 48.2 | 82.8 |
| **2026-04-11 18:45:00** | 15 min | 60.0 | 48.4 | 71.6 |
| **2026-04-11 19:00:00** | 15 min | 60.4 | 46.9 | 73.6 |
| **2026-04-11 19:15:00** | 15 min | 59.5 | 48.6 | 73.0 |



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|---|---|---|---|---|
| **2026-04-11 19:30:00** | 15 min | 59.7 | 49.2 | 74.6 |
| **2026-04-11 19:45:00** | 15 min | 60.1 | 50.1 | 79.2 |
| **2026-04-11 20:00:00** | 15 min | 60.7 | 53.7 | 73.8 |
| **2026-04-11 20:15:00** | 15 min | 62.9 | 53.0 | 75.3 |
| **2026-04-11 20:30:00** | 15 min | 60.8 | 50.8 | 77.5 |
| **2026-04-11 20:45:00** | 15 min | 60.8 | 48.6 | 71.7 |
| **2026-04-11 21:00:00** | 15 min | 60.6 | 49.2 | 71.0 |
| **2026-04-11 21:15:00** | 15 min | 60.7 | 49.2 | 76.1 |
| **2026-04-11 21:30:00** | 15 min | 60.2 | 48.2 | 71.5 |
| **2026-04-11 21:45:00** | 15 min | 61.3 | 50.0 | 82.4 |
| **2026-04-11 22:00:00** | 15 min | 60.4 | 49.8 | 72.7 |
| **2026-04-11 22:15:00** | 15 min | 60.3 | 51.5 | 71.5 |
| **2026-04-11 22:30:00** | 15 min | 64.4 | 50.8 | 90.9 |
| **2026-04-11 22:45:00** | 15 min | 60.9 | 50.2 | 78.2 |
| **2026-04-11 23:00:00** | 15 min | 61.2 | 50.7 | 76.8 |
| **2026-04-11 23:15:00** | 15 min | 59.5 | 49.8 | 72.1 |
| **2026-04-11 23:30:00** | 15 min | 60.3 | 50.5 | 71.3 |
| **2026-04-11 23:45:00** | 15 min | 60.7 | 47.7 | 77.4 |
| **2026-04-12 00:00:00** | 15 min | 60.0 | 48.2 | 73.2 |
| **2026-04-12 00:15:00** | 15 min | 59.8 | 46.7 | 71.7 |
| **2026-04-12 00:30:00** | 15 min | 59.8 | 48.1 | 70.8 |
| **2026-04-12 00:45:00** | 15 min | 59.5 | 46.6 | 73.7 |
| **2026-04-12 01:00:00** | 15 min | 58.0 | 45.4 | 70.4 |
| **2026-04-12 01:15:00** | 15 min | 59.1 | 45.5 | 73.6 |
| **2026-04-12 01:30:00** | 15 min | 59.2 | 45.8 | 71.7 |
| **2026-04-12 01:45:00** | 15 min | 56.9 | 46.1 | 70.6 |
| **2026-04-12 02:00:00** | 15 min | 57.5 | 45.7 | 71.0 |
| **2026-04-12 02:15:00** | 15 min | 59.0 | 44.8 | 73.1 |
| **2026-04-12 02:30:00** | 15 min | 56.5 | 43.6 | 70.5 |
| **2026-04-12 02:45:00** | 15 min | 57.6 | 43.7 | 73.2 |
| **2026-04-12 03:00:00** | 15 min | 57.7 | 44.6 | 71.1 |
| **2026-04-12 03:15:00** | 15 min | 57.2 | 45.1 | 71.6 |
| **2026-04-12 03:30:00** | 15 min | 55.6 | 43.8 | 71.7 |
| **2026-04-12 03:45:00** | 15 min | 56.8 | 44.0 | 74.8 |
| **2026-04-12 04:00:00** | 15 min | 57.3 | 44.9 | 78.7 |
| **2026-04-12 04:15:00** | 15 min | 56.8 | 45.7 | 70.8 |
| **2026-04-12 04:30:00** | 15 min | 57.5 | 45.9 | 78.8 |
| **2026-04-12 04:45:00** | 15 min | 57.0 | 45.3 | 70.8 |
| **2026-04-12 05:00:00** | 15 min | 56.6 | 45.5 | 71.7 |
| **2026-04-12 05:15:00** | 15 min | 58.3 | 45.0 | 74.1 |
| **2026-04-12 05:30:00** | 15 min | 59.2 | 46.1 | 78.2 |
| **2026-04-12 05:45:00** | 15 min | 57.1 | 46.1 | 73.8 |
| **2026-04-12 06:00:00** | 15 min | 57.9 | 47.4 | 73.6 |
| **2026-04-12 06:15:00** | 15 min | 59.9 | 46.9 | 78.7 |
| **2026-04-12 06:30:00** | 15 min | 58.5 | 46.0 | 75.1 |
| **2026-04-12 06:45:00** | 15 min | 59.2 | 47.0 | 73.6 |
| **2026-04-12 07:00:00** | 15 min | 59.1 | 45.7 | 72.8 |
| **2026-04-12 07:15:00** | 15 min | 59.1 | 44.8 | 72.3 |
| **2026-04-12 07:30:00** | 15 min | 58.3 | 45.2 | 72.2 |



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|---|---|---|---|---|
| **2026-04-12 07:45:00** | 15 min | 59.5 | 46.2 | 72.2 |
| **2026-04-12 08:00:00** | 15 min | 60.5 | 47.4 | 76.1 |
| **2026-04-12 08:15:00** | 15 min | 59.7 | 46.9 | 75.1 |
| **2026-04-12 08:30:00** | 15 min | 59.3 | 47.1 | 74.2 |
| **2026-04-12 08:45:00** | 15 min | 60.4 | 47.8 | 74.2 |
| **2026-04-12 09:00:00** | 15 min | 60.1 | 49.2 | 73.0 |
| **2026-04-12 09:15:00** | 15 min | 60.6 | 48.9 | 75.5 |
| **2026-04-12 09:30:00** | 15 min | 62.8 | 47.2 | 87.4 |
| **2026-04-12 09:45:00** | 15 min | 59.7 | 46.3 | 72.9 |
| **2026-04-12 10:00:00** | 15 min | 61.1 | 48.1 | 76.7 |
| **2026-04-12 10:15:00** | 15 min | 58.7 | 47.5 | 73.0 |
| **2026-04-12 10:30:00** | 15 min | 60.2 | 48.1 | 72.0 |
| **2026-04-12 10:45:00** | 15 min | 60.5 | 49.2 | 70.2 |
| **2026-04-12 11:00:00** | 15 min | 60.2 | 48.1 | 73.8 |
| **2026-04-12 11:15:00** | 15 min | 61.3 | 48.8 | 73.9 |
| **2026-04-12 11:30:00** | 15 min | 60.6 | 47.6 | 71.6 |
| **2026-04-12 11:45:00** | 15 min | 60.3 | 47.5 | 71.4 |
| **2026-04-12 12:00:00** | 15 min | 60.7 | 48.7 | 79.3 |
| **2026-04-12 12:15:00** | 15 min | 61.7 | 48.7 | 76.1 |
| **2026-04-12 12:30:00** | 15 min | 62.0 | 47.9 | 80.1 |
| **2026-04-12 12:45:00** | 15 min | 61.0 | 46.4 | 77.1 |
| **2026-04-12 13:00:00** | 15 min | 61.7 | 46.6 | 82.0 |
| **2026-04-12 13:15:00** | 15 min | 60.4 | 46.4 | 72.6 |
| **2026-04-12 13:30:00** | 15 min | 60.7 | 47.2 | 70.1 |
| **2026-04-12 13:45:00** | 15 min | 59.0 | 45.7 | 71.9 |
| **2026-04-12 14:00:00** | 15 min | 60.0 | 47.7 | 76.5 |
| **2026-04-12 14:15:00** | 15 min | 61.4 | 47.4 | 78.4 |
| **2026-04-12 14:30:00** | 15 min | 61.1 | 47.5 | 74.6 |
| **2026-04-12 14:45:00** | 15 min | 59.7 | 46.9 | 73.3 |
| **2026-04-12 15:00:00** | 15 min | 61.0 | 48.7 | 72.4 |
| **2026-04-12 15:15:00** | 15 min | 59.5 | 49.0 | 70.2 |
| **2026-04-12 15:30:00** | 15 min | 60.5 | 46.3 | 76.7 |
| **2026-04-12 15:45:00** | 15 min | 60.3 | 46.5 | 72.2 |
| **2026-04-12 16:00:00** | 15 min | 60.7 | 47.6 | 71.4 |
| **2026-04-12 16:15:00** | 15 min | 62.7 | 46.9 | 84.5 |
| **2026-04-12 16:30:00** | 15 min | 59.5 | 47.7 | 71.2 |
| **2026-04-12 16:45:00** | 15 min | 60.0 | 46.6 | 76.4 |
| **2026-04-12 17:00:00** | 15 min | 59.5 | 45.6 | 71.8 |
| **2026-04-12 17:15:00** | 15 min | 60.6 | 46.7 | 72.2 |
| **2026-04-12 17:30:00** | 15 min | 60.3 | 47.0 | 71.5 |
| **2026-04-12 17:45:00** | 15 min | 60.7 | 45.2 | 75.8 |
| **2026-04-12 18:00:00** | 15 min | 60.5 | 47.5 | 74.8 |
| **2026-04-12 18:15:00** | 15 min | 59.9 | 47.2 | 75.1 |
| **2026-04-12 18:30:00** | 15 min | 59.7 | 45.1 | 77.0 |
| **2026-04-12 18:45:00** | 15 min | 60.4 | 45.4 | 73.5 |
| **2026-04-12 19:00:00** | 15 min | 60.1 | 46.0 | 73.3 |
| **2026-04-12 19:15:00** | 15 min | 61.4 | 46.6 | 93.5 |
| **2026-04-12 19:30:00** | 15 min | 59.3 | 46.2 | 80.2 |
| **2026-04-12 19:45:00** | 15 min | 58.5 | 45.8 | 73.7 |



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| **2026-04-12 20:00:00** | 15 min | 58.6 | 46.9 | 69.1 |
| **2026-04-12 20:15:00** | 15 min | 61.4 | 45.5 | 83.5 |
| **2026-04-12 20:30:00** | 15 min | 56.8 | 43.4 | 69.9 |
| **2026-04-12 20:45:00** | 15 min | 57.4 | 42.2 | 71.2 |
| **2026-04-12 21:00:00** | 15 min | 57.0 | 43.3 | 69.4 |
| **2026-04-12 21:15:00** | 15 min | 60.8 | 43.8 | 82.5 |
| **2026-04-12 21:30:00** | 15 min | 58.7 | 42.7 | 75.2 |
| **2026-04-12 21:45:00** | 15 min | 58.1 | 45.3 | 73.2 |
| **2026-04-12 22:00:00** | 15 min | 58.8 | 44.3 | 76.1 |
| **2026-04-12 22:15:00** | 15 min | 57.8 | 44.0 | 70.0 |
| **2026-04-12 22:30:00** | 15 min | 57.0 | 43.5 | 68.5 |
| **2026-04-12 22:45:00** | 15 min | 57.6 | 43.8 | 70.6 |
| **2026-04-12 23:00:00** | 15 min | 57.5 | 42.0 | 74.4 |
| **2026-04-12 23:15:00** | 15 min | 57.9 | 42.3 | 74.0 |
| **2026-04-12 23:30:00** | 15 min | 59.0 | 45.3 | 73.0 |
| **2026-04-12 23:45:00** | 15 min | 58.0 | 43.9 | 75.1 |
| **2026-04-13 00:00:00** | 15 min | 55.8 | 40.4 | 69.4 |
| **2026-04-13 00:15:00** | 15 min | 57.6 | 39.0 | 77.3 |
| **2026-04-13 00:30:00** | 15 min | 54.3 | 37.3 | 71.9 |
| **2026-04-13 00:45:00** | 15 min | 56.0 | 37.7 | 77.6 |
| **2026-04-13 01:00:00** | 15 min | 56.3 | 37.6 | 79.7 |
| **2026-04-13 01:15:00** | 15 min | 53.2 | 37.8 | 70.5 |
| **2026-04-13 01:30:00** | 15 min | 56.4 | 37.5 | 74.9 |
| **2026-04-13 01:45:00** | 15 min | 53.4 | 36.5 | 71.3 |
| **2026-04-13 02:00:00** | 15 min | 54.3 | 36.1 | 70.0 |
| **2026-04-13 02:15:00** | 15 min | 56.2 | 35.8 | 73.5 |
| **2026-04-13 02:30:00** | 15 min | 54.5 | 36.1 | 71.7 |
| **2026-04-13 02:45:00** | 15 min | 53.1 | 35.7 | 69.6 |
| **2026-04-13 03:00:00** | 15 min | 52.2 | 35.6 | 70.6 |
| **2026-04-13 03:15:00** | 15 min | 51.8 | 35.9 | 71.5 |
| **2026-04-13 03:30:00** | 15 min | 52.6 | 35.7 | 71.7 |
| **2026-04-13 03:45:00** | 15 min | 51.0 | 36.2 | 69.7 |
| **2026-04-13 04:00:00** | 15 min | 53.9 | 37.5 | 70.1 |
| **2026-04-13 04:15:00** | 15 min | 55.8 | 37.9 | 71.9 |
| **2026-04-13 04:30:00** | 15 min | 57.5 | 40.4 | 75.3 |
| **2026-04-13 04:45:00** | 15 min | 58.2 | 43.0 | 74.4 |
| **2026-04-13 05:00:00** | 15 min | 57.2 | 41.9 | 73.3 |
| **2026-04-13 05:15:00** | 15 min | 57.3 | 42.7 | 73.6 |
| **2026-04-13 05:30:00** | 15 min | 58.7 | 43.3 | 73.7 |
| **2026-04-13 05:45:00** | 15 min | 59.4 | 47.0 | 71.3 |
| **2026-04-13 06:00:00** | 15 min | 59.3 | 44.9 | 76.2 |
| **2026-04-13 06:15:00** | 15 min | 61.6 | 46.7 | 78.6 |
| **2026-04-13 06:30:00** | 15 min | 61.7 | 45.3 | 74.6 |
| **2026-04-13 06:45:00** | 15 min | 62.9 | 45.9 | 79.3 |
| **2026-04-13 07:00:00** | 15 min | 62.7 | 46.6 | 75.4 |
| **2026-04-13 07:15:00** | 15 min | 63.3 | 49.3 | 73.7 |
| **2026-04-13 07:30:00** | 15 min | 64.2 | 47.0 | 92.3 |
| **2026-04-13 07:45:00** | 15 min | 63.9 | 47.4 | 74.9 |
| **2026-04-13 08:00:00** | 15 min | 64.1 | 49.3 | 89.4 |



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| **2026-04-13 08:15:00** | 15 min | 62.4 | 47.8 | 73.1 |
| **2026-04-13 08:30:00** | 15 min | 61.2 | 46.0 | 75.4 |
| **2026-04-13 08:45:00** | 15 min | 62.0 | 47.6 | 76.8 |
| **2026-04-13 09:00:00** | 15 min | 59.2 | 44.3 | 71.5 |
| **2026-04-13 09:15:00** | 15 min | 60.2 | 46.3 | 72.1 |
| **2026-04-13 09:30:00** | 15 min | 59.3 | 47.1 | 74.4 |
| **2026-04-13 09:45:00** | 15 min | 60.2 | 49.0 | 71.5 |
| **2026-04-13 10:00:00** | 15 min | 59.3 | 46.2 | 71.9 |
| **2026-04-13 10:15:00** | 15 min | 59.1 | 45.7 | 75.0 |



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# 5.0 Conclusion

## Details of Instruction

Four Architects appointed enevo to carry out a noise survey for the proposed residential development at 48 Store Street, Manchester.

This report describes a noise survey of the site and the subsequent analysis to determine the noise environment of the proposed development. It then compares the results with the adopted criteria and, where applicable, recommendations are made with respect to the design of the development.

## Concluding Statement

Monitoring was undertaken over an extended period to ensure that representative active hours from the Diecast Bar were captured. Based on a review of the previously recorded data, the glazing and ventilation specifications recommended by Sanctuary Acoustics, and the additional measurements obtained, it is considered that the proposed specifications should be sufficient to meet the requirements set out in BS 8233:2014.

The measured data indicates an average noise level in the range of approximately 55–60 dB. In line with the Sanctuary Acoustics report, this corresponds to a glazing specification of 29 dB Rw + Ctr and a ventilation specification of 35 dB Dn,e,w + Ctr, which aligns with the recommendations already provided.



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# Appendix A

## Glossary of Acoustic Terminology

**"A" Weighting (dB(A))** – The human ear does not respond uniformly to different frequencies. "A" weighting is commonly used to simulate the frequency response of the ear. It is used in the assessment of the risk of damage to hearing due to noise.

**Decibel (dB)** – The range of audible sound pressures is approximately 2 x 10-5 Pa to 200 Pa. Using decibel notation presents this range in a more manageable form, 0 dB to 140 dB. Mathematically: Sound Pressure Level (dB) = 20 log {p(t) / Po} where Po = 2 x 10-5 Pa

**Frequency (Hz)** – The number of cycles per second, for sound this is subjectively perceived as pitch.

**$L_{eq(T)}$** – The equivalent continuous sound level. It is that steady sound level which would produce the same energy over a given time period T as a specified time varying sound.

**$L_{Amax(T)}$** – The maximum RMS A-weighted sound pressure level occurring within a specified time period.

**LAE or SEL** – A measure of A-weighted sound energy used to describe noise events such as the passing of a train or aircraft; it is the A-weighted sound pressure level which, if occurring over a period of one second, would contain the same amount of A-weighted sound energy as the event.

**$L_{A90,T}$ Background noise level** – The A-weighted sound pressure level of the residual noise in decibels exceeded for 90% of a given time interval.

**Octave Band** – A range of frequencies defined by an upper limit which is twice the lower limit. Octave bands are identified by their centre frequency.

**$R_W$ (dB)** – The weighted sound reduction incorporates a correction for the ear's response and has been derived in accordance with BS 5821:1984.

**Specific Noise** – The equivalent continuous A-weighted sound pressure level at the assessment position produced by the specific noise source over a given reference time interval.

**Rating Level** – $L_{Ar,T}$ The specific noise level plus any adjustment for the character of the noise.

**Ambient Noise** – Totally encompassing sound in a given situation at any given time composed of noise from many sources, near and far.

**Residual Noise** – The ambient noise remaining at a given position in a given situation when the specific noise source is suppressed.



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