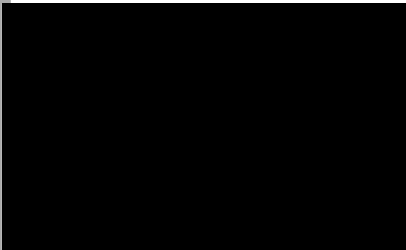
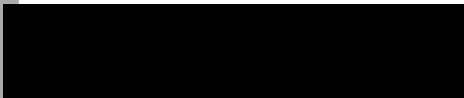




ERIC WRIGHT CONSTRUCTION LIMITED  
32-34 LAYSTALL STREET, MANCHESTER

INTERNAL AMBIENT NOISE LEVEL COMMISSIONING  
R2194-REP03-SJW  
17 DECEMBER 2025

REPORT DETAILS

|                    |                                                                                                                                                                                                             |
|--------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Project            | 32-34 Laystall Street, Manchester                                                                                                                                                                           |
| Client             | Eric Wright Construction Ltd<br>Sceptre House, Sceptre Way, Bamber Bridge, Preston PR5 6AW                                                                                                                  |
| Document Reference | R2194-REP03-SJW                                                                                                                                                                                             |
| Date Issued        | 17 December 2025                                                                                                                                                                                            |
| Revision           | Initial Report                                                                                                                                                                                              |
| Issued By          | Simon Webster BEng (Hons) MIOA<br><br>Red Acoustics Limited<br><br>Business First, Millennium Road, Preston, PR2 5BL<br> |
| Signed             |                                                                                                                         |
| Checked By         | Johnathan Whittle BSc (Hons), Pg. Dip. IOA AMIOA MCIEH                                                                                                                                                      |
| Signed             |                                                                                                                         |

## SUMMARY

Red Acoustics Ltd has been commissioned by Eric Wright Construction Limited to conduct internal ambient sound level verification measurements to confirm that measured daytime and night-time noise levels meet the internal ambient noise level criteria as defined by Manchester City Council.

The results of the internal ambient sound level measurements have demonstrated compliance with the performance requirements set by Manchester City Council and Planning Condition 30 which states:

### Condition 30

#### *NEWBUILD:-*

*Prior to occupation a post completion report to verify that all of the recommended mitigation measures have been installed and effectively mitigate any potential adverse noise impacts in the residential accommodation shall be submitted and agreed in writing by the City Council as local planning authority. Prior to occupation any non compliance shall be suitably mitigated in accordance with an agreed scheme.*

32-34 LAYSTALL STREET, MANCHESTER

ERIC WRIGHT CONSTRUCTION LIMITED

INTERNAL AMBIENT NOISE LEVEL COMMISSIONING - R2194-REP03-SJW

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## 1.0 INTRODUCTION

Red Acoustics Ltd has been commissioned by Eric Wright Construction Limited to conduct internal ambient sound level verification measurements to confirm that measured daytime and night-time noise levels meet the internal ambient noise level criteria as defined by Manchester City Council.

The targets relate to noise ingress from external environmental sound sources. The measurements were conducted in Apartments 27 and 27 between Friday 12th and Sunday 14th December to assess sound ingress levels with the installed facade mitigation.

## 2.0 PERFORMANCE REQUIREMENTS

In assessing noise ingress, reference is made to target criteria set by Manchester City Council for internal habitable spaces.

The noise design targets for internal habitable spaces are detailed in Table 2.1. The targets are based on the advice provided in BS8233:2014/WHO guidelines as well as accepted Local Authority criteria.

**Table 2.1:** BS8233:2014 Design Targets

| Space       | L <sub>Aeq,16hr</sub> (07:00 - 23:00) | L <sub>Aeq,8hr</sub> (23:00 - 07:00) | Typical L <sub>Amax</sub> (23:00 - 07:00) |
|-------------|---------------------------------------|--------------------------------------|-------------------------------------------|
| Living Room | 35dB                                  | -                                    | -                                         |
| Bedroom     | -                                     | 30dB                                 | ≤45dB                                     |

As detailed in the BS8233:2014 and WHO (1999) guidance, events exceeding 45dB L<sub>AFmax</sub> shall occur no more than 10-15 times per night. For the purpose of the commissioning measurements, compliance in this regard has been demonstrated by confirming the 10th highest measured maximum event due to external sources in each bedroom space at night.

## 3.0 MEASUREMENT PROCEDURE

Measurements were taken with the microphone mounted on a tripod at the approximate centre of each bedroom or living space. During the measurements all doors and windows were closed. The dwellings are mechanically ventilated and the ventilation system was switched off during the surveys for the purposes of assessing sound ingress. The sound level meters were set to measure 5 minute, A-weighted sound pressure levels and were calibrated before and after the survey period - no drift in sensitivity was observed over the survey period. Details of all instrumentation used is given in Appendix A.

A sample of 4 bedroom spaces and 4 living room spaces were selected to provide a representative sample of the development. Table 3.1 contains details of each internal ambient noise measurement conducted.

**Table 3.1:** Internal Ambient Noise Measurements Details

| Measurement Position | Date                    | Equipment Number | Measurement Location                 |
|----------------------|-------------------------|------------------|--------------------------------------|
| 1                    | 12th - 15th December 25 | RED15            | Apartment 29 First Floor Living Room |
| 2                    | 12th - 15th December 25 | RED09            | Apartment 29 First Floor Bedroom     |
| 3                    | 12th - 15th December 25 | RED08            | Apartment 27 First Floor Living Room |
| 4                    | 12th - 15th December 25 | RED13            | Apartment 27 First Floor Bedroom     |

Measurements were undertaken in each unoccupied residential dwelling following practical completion of the dwellings, however some internal works were ongoing at the time of commissioning

Figure 3.1 below shows the general arrangement plans detailing the measurement locations.

**Figure 3.1:** Internal Ambient Sound Measurement Positions 1st Floor



## 4.0 INDOOR AMBIENT NOISE LEVEL MEASUREMENT RESULTS

Measurement results for each of the 24 hour measurements at positions 1 - 4 are presented in Table 4.1 and Figures 4.1 to 4.4 below excluding periods of rain on Sunday / Monday.

**Table 4.1:** Internal Ambient Noise Measurement Results

| Measurement Position | Room Type                            | Daytime<br>L <sub>Aeq,16hour</sub><br>(dBA)             | Night-time<br>L <sub>Aeq,8hour</sub><br>(dBA)                    | Night-time<br>10th Highest<br>L <sub>AFmax</sub> (dBA)           | Compliance with Target |
|----------------------|--------------------------------------|---------------------------------------------------------|------------------------------------------------------------------|------------------------------------------------------------------|------------------------|
| 1                    | Apartment 29 First Floor Living Room | Friday / Saturday<br>28.2dBA<br><br>Saturday<br>29.4dBA | -                                                                | -                                                                | YES                    |
| 2                    | Apartment 29 First Floor Bedroom     | -                                                       | Friday / Saturday<br>21.8dBA<br><br>Saturday / Sunday<br>23.6dBA | Friday / Saturday<br>36.5dBA<br><br>Saturday / Sunday<br>39.9dBA | YES                    |
| 3                    | Apartment 27 First Floor Living Room | Friday / Saturday<br>24dBA<br><br>Saturday<br>25.5dBA   | -                                                                | -                                                                | YES                    |
| 4                    | Apartment 27 First Floor Bedroom     | -                                                       | Friday / Saturday<br>23.4dBA                                     | Friday / Saturday<br>38.6dBA                                     | YES                    |

**Figure 4.1:** Internal Ambient Noise Measurement Results - Apartment 29 Living Room

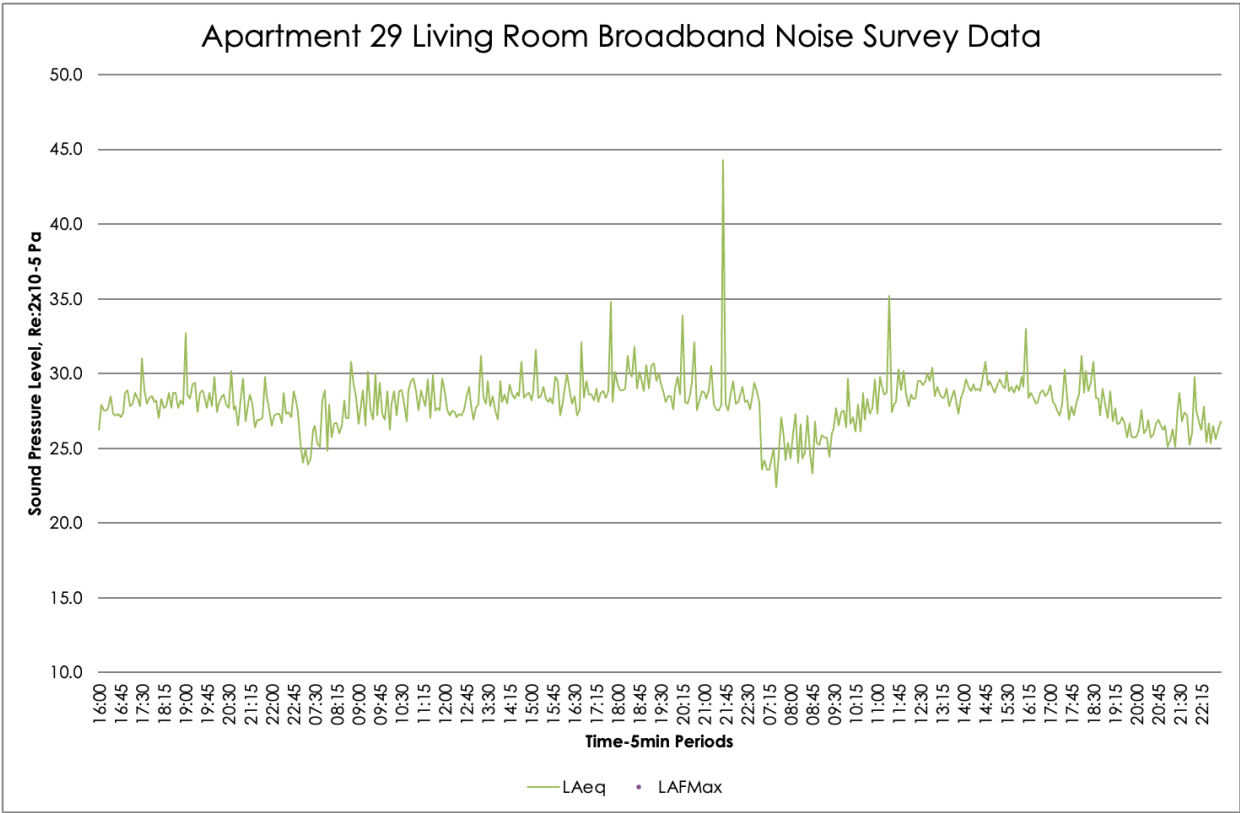


**Figure 4.2:** Internal Ambient Noise Measurement Results - Apartment 29 Bedroom

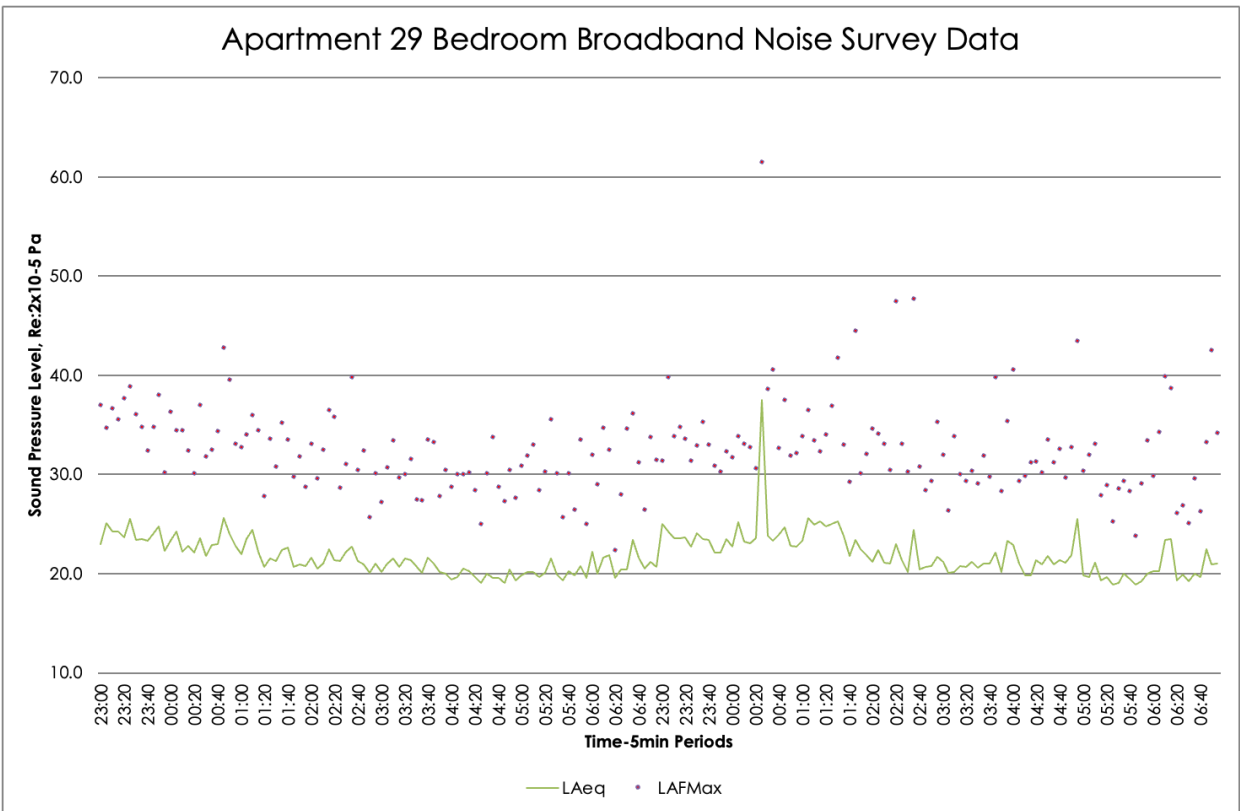


**Figure 4.3:** Internal Ambient Noise Measurement Results - Apartment 27 Living Room

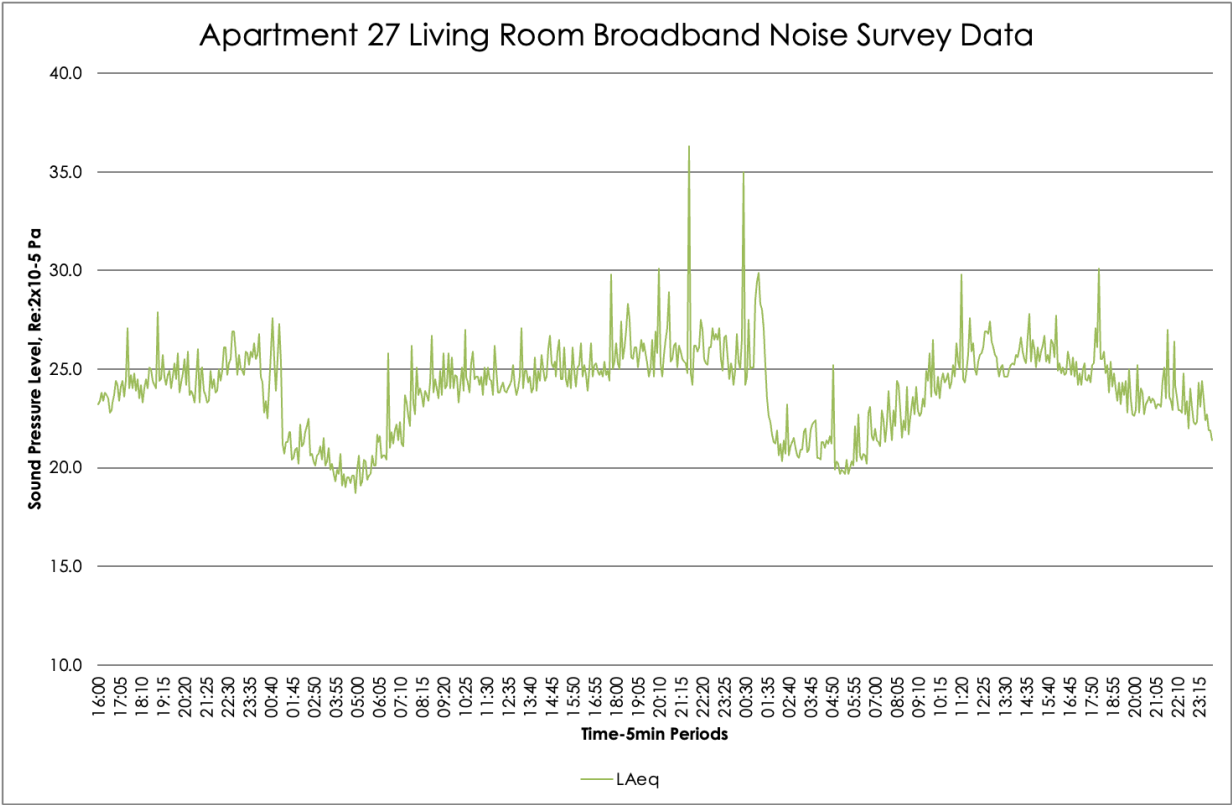
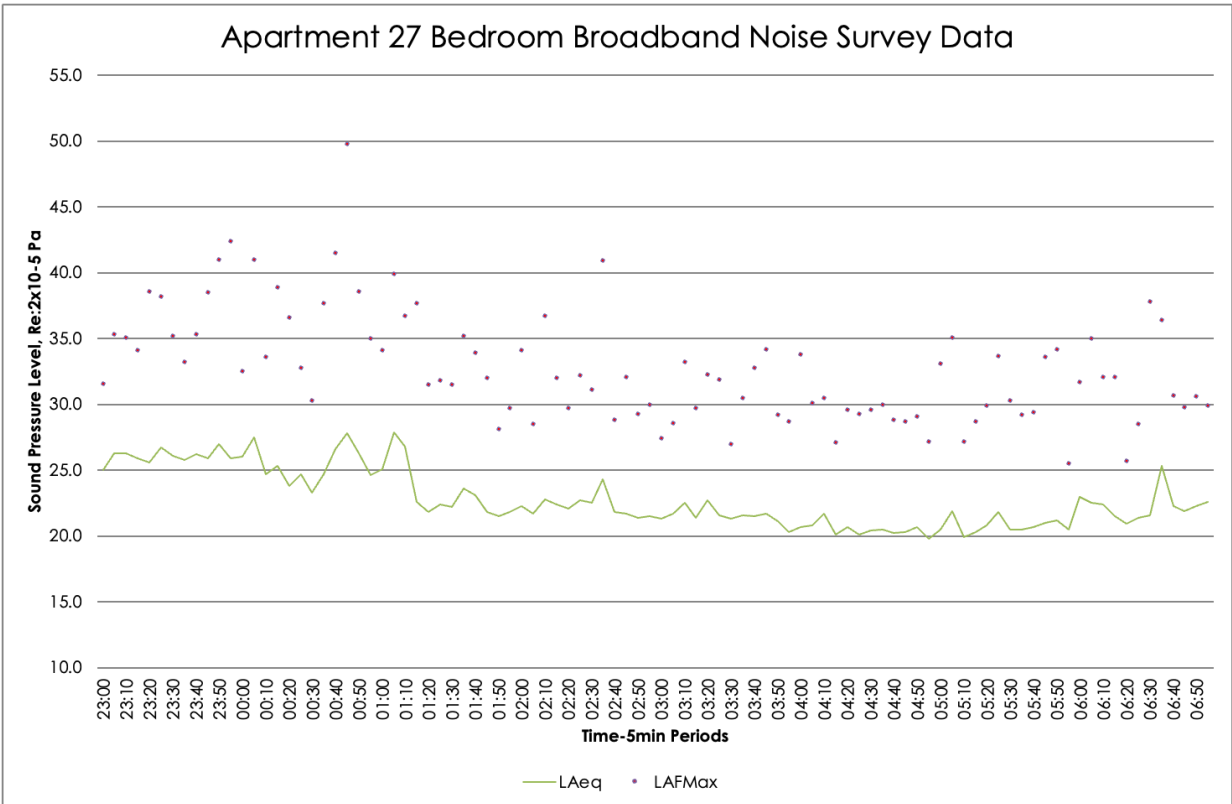


**Figure 4.4:** Internal Ambient Noise Measurement Results - Apartment 27 Bedroom



The measurement results above taken in each space demonstrate that the targets set by Manchester City Council have been met, and that no further mitigation is needed.

The data has also had no reverberation time correction applied to allow for fitted rooms. Therefore, the data presented, although compliant is expected to reduce further as rooms become furnished and occupied.

## 5.0 CONCLUSION

The results confirm compliance with the performance standards set by Manchester City Council. The relevant target sound levels due to environmental noise break-in have been met in accordance with Planning Condition 30.

## APPENDIX A: TEST DETAILS

### Location

32-34 Laystall Street, Manchester

### Date of Measurements

12-15 December 2025

### Personnel

Simon Webster BEng (Hons) MIOA

### Instrumentation

Table A1 below presents the instrumentation used during the surveys.

### Methodology

Before and after the measurements the sound level meters were check calibrated to an accuracy of  $\pm 0.3\text{dB}$  using their associated Class 1 Calibrators. No drift in the instruments' sensitivities were noted across any of the survey periods.

### Calibration Certificates

Copies of all calibration certificates are kept on file by Red Acoustics Ltd and can be supplied if requested.

Instrumentation Used

Table A1: List of Instrumentation Used

| Kit No | Equipment Description | Type Number         | Manufacturer | Serial Number | Date of Last Calibration |
|--------|-----------------------|---------------------|--------------|---------------|--------------------------|
| RED15  | Sound Level Meter     | NTi Audio XL3       | NTi Audio    | A3A-00480-D1  | 21 March 2025            |
| RED09  | Sound Level Meter     | Norsonic 140 Type 1 | Norsonic     | 1402793       | 01 May 2024              |
| RED08  | Sound Level Meter     | NTi Audio XL2       | NTi Audio    | A2A-22062-F0  | 28 March 2025            |
| RED13  | Sound Level Meter     | Norsonic 140 Type 1 | Norsonic     | 1402994       | 01 May 2024              |
| ALL    | Sound Calibrator      | Type 1251 Class 1   | Norsonic     | 31040         | 31 October 2025          |