
Our ref: NVT/7588/21/9951/v1/86 Cross Street

10th August 2021

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**NOISE VALIDATION TEST
86 CROSS STREET, MANCHESTER**

MANCHESTER CITY COUNCIL PLANNING APPLICATION REFERENCE 117966/FO/2017

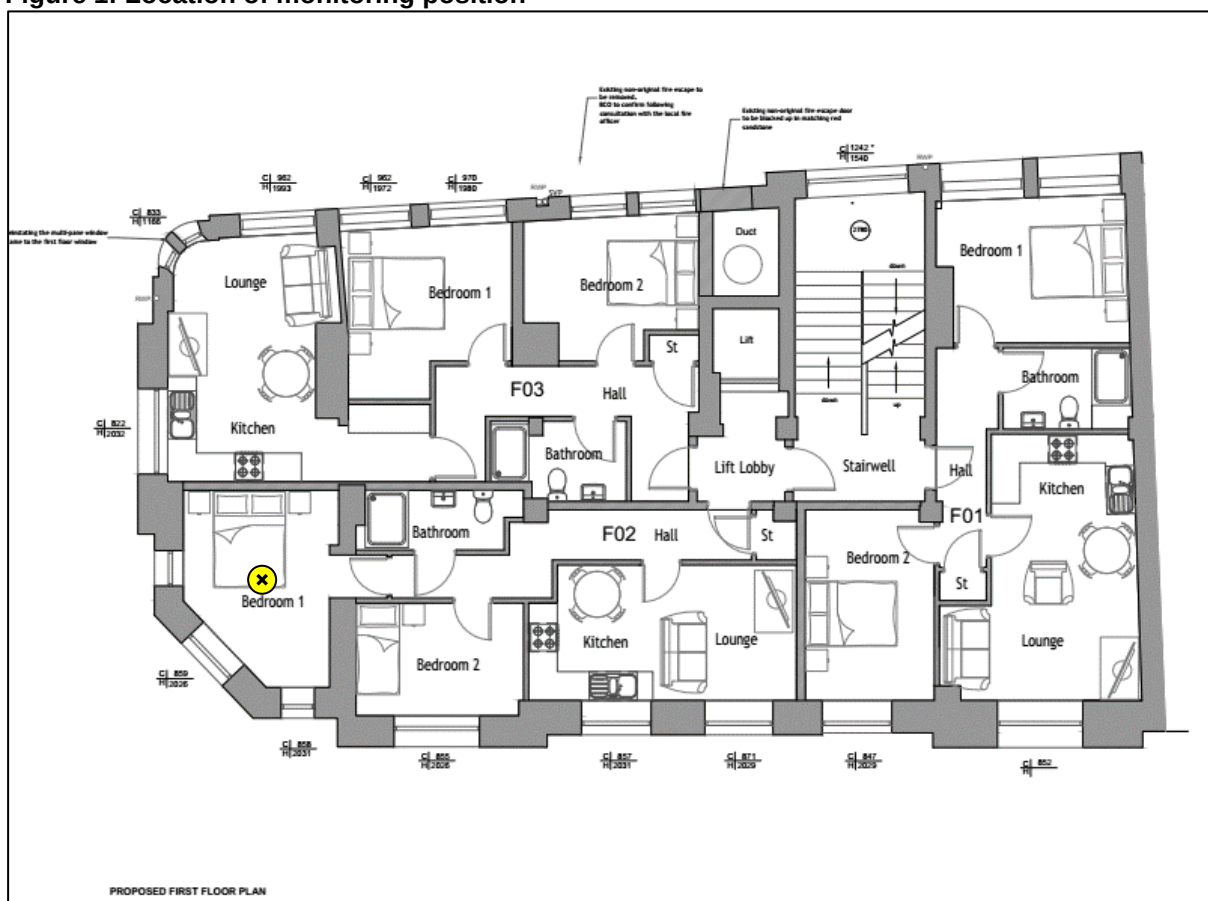
1.00 INTRODUCTION

- 1.01 Environmental Noise Solutions Limited (ENS) has been commissioned by Edifice Building Consultants Ltd to carry out a noise validation test at 86 Cross Street, Manchester (hereafter referred to as the subject site).
- 1.02 Planning Permission (ref: 117966/FO/2017) for the development was granted by Manchester City Council in September 2018, subject to conditions. Condition 10 relates to the control of noise and specified the following internal noise criteria:
- ‘10) Bedrooms (night time - 23.00 - 07.00) 30 dB LAeq (individual noise events shall not normally exceed 45 dB $L_{Amax,F}$ by more than 15 times)
Living Rooms (daytime - 07.00 - 23.00) 35 dB LAeq
Gardens and terraces (daytime) 55 dB LAeq’
- 1.03 This report has been prepared to assist in the discharge of Condition 10 of Planning Permission 117966/FO/2017 for the development. It details the methodology and results of the noise validation testing.
- 1.04 This report has been prepared for Edifice Building Consultants Ltd for the sole purpose described above and no extended duty of care to any third party is implied or offered. Third parties making reference to the report should consult Edifice Building Consultants Ltd and ENS as to the extent to which the findings may be appropriate for their use.

2.00 NOISE VALIDATION TESTING

- 2.01 In order to establish compliance with the internal criteria of the planning condition, baseline noise measurements were undertaken between approximately 0911 hours on Saturday 31st July 2021 and 0900 hours on Monday 2nd August 2021.
- 2.02 For reference, noise measurements were undertaken within Bedroom 1 of Flat 3 on the first floor, overlooking the corner of Cross Street and John Dalton Street (see Figure 1 for monitoring position). Measurements were undertaken with windows closed and an alternative acoustically treated mechanical ventilation system (MVHR) operating.

Figure 1: Location of monitoring position



- 2.03 Noise measurements were made in the centre of the subject room using a Bruel & Kjaer 2250 Type 1 integrating sound level meter. The measurement system calibration was verified immediately before the commencement of the measurement sessions and again at the end, with no drift in calibration level noted.
- 2.04 Testing was undertaken in an unfurnished room, with a measured reverberation time of circa 0.7 seconds. The noise measurement data has therefore been standardised to 0.5 seconds reverberation time for a furnished room in accordance with Building Regulations Approved Document E, 2003 (and thus the noise measurements were corrected by -1 dB ($10 \times \log(0.5/0.7)$) respectively).

- 2.05 The results of the noise validation test, for representative daytime and night time periods, are contained in the following table.

Table 2.1 – Assessment for Representative Daytime and Night Time Periods

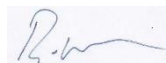
Parameter	Date	Time Interval	Noise Level	Criterion
Daytime	Saturday 31/07/21	0911-2300 hours	28 dB LAeq (0700-2300)	35 dB LAeq (0700-2300)
	Sunday 01/08/21	0700–2300 hours	25 dB LAeq (0700-2300)	
	Monday 02/08/21	0700-0858 hours	28 dB LAeq (0700-2300)	
Night Time	Saturday 31/07/21 - Sunday 01/08/21	2300–0700 hours	26 dB LAeq (2300-0700)	30 dB LAeq (2300-0700)
	Sunday 01/08/21 – Monday 02/08/21	2300–0700 hours	22 dB LAeq (2300-0700)	30 dB LAeq (2300-0700)
	Saturday 31/07/21 - Sunday 01/08/21	2300–0700 hours	44 dB LA _F Max *	45 dB LA _F Max
	Sunday 01/08/21 – Monday 02/08/21	2300–0700 hours	41 dB LA _F Max *	45 dB LA _F Max

* 16th highest maximum noise level event

- 2.06 Daytime and night time internal levels during the validation testing were readily compliant with the requirements of Condition 10 of Planning Permission ref: 117966/FO/2017.

I trust the foregoing is sufficient for your needs. Should you have any queries regarding the above, please do not hesitate to contact me.

Yours sincerely,



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MIOA, Diploma in Acoustics & Noise Control
Environmental Noise Solutions Limited