

Our ref: NVT/9672/21/10064 Minshull Street

24th August 2021

Rose Gold Ltd.
c/o WSP
Toronto Square
Leeds
LS1 2HJ



**NOISE VALIDATION TEST FOR RESIDENTIAL DEVELOPMENT
12 MINSHULL STREET, MANCHESTER**

MANCHESTER CITY COUNCIL PLANNING PERMISSION REFERENCE 122519/P3OPA/2019

1.00 INTRODUCTION

1.01 Environmental Noise Solutions Limited (ENS) has been commissioned by Rose Gold Ltd. to carry out a noise validation test at the residential development at 12 Minshull Street, Manchester (hereafter referred to as the subject site).

1.02 Planning Permission (ref: 122519/P3OPA/2019) for the development was granted by Manchester City Council in April 2019, subject to conditions. Condition 4 relates to the control of noise as follows:

4. *Upon completion of the development and before the residential use becomes operational, a verification report will be required to validate that the work undertaken throughout the development conforms to the recommendations and requirements in the approved acoustic consultant's report. The report shall also undertake post completion testing to confirm that above criteria is met. Any instances of non-conformity with the recommendations in the report shall be detailed along with any measures required to ensure compliance with the noise criteria. This shall include monitoring in the completed flats to confirm the internal levels are being achieved (including the 63 and 125 Hz octave bands). This report shall be submitted to and approved in writing by the City Council as local planning authority before the use becomes operational along with a timescale that confirms when any necessary changes will be implemented.*

1.03 This report has been prepared to assist in the discharge of Condition 4 of Planning Permission 122519/P3OPA/2019 for the development. It details the methodology and results of the noise validation testing.

1.04 This report has been prepared for Rose Gold 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 Rose Gold 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 1400 hours on Friday 6th August and 1100 hours on Monday 9th August 2021.

2.02 For reference, noise measurements were undertaken within first floor studio apartments Plot 1-09 (front) and Plot 1-01 (rear), adjacent to the shared party wall with No. 1 Canal Street. Measurements were undertaken with windows closed and trickle vents open.

2.03 Noise measurements were made in the centre of the subject rooms using Bruel & Kjaer 2250 Type 1 integrating sound level meters. 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 unfurnished rooms, with measured reverberation times of circa 0.8 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 –2 decibels ($10 \times \log(0.5/0.8)$)).
- 2.05 The results of the noise validation testing, for representative daytime and night time periods, are contained in the following tables (note: where feasible, internal noise associated with ongoing construction works have been excluded from the measurements).

Plot 1-01

Period	Date	Time	Noise Level				Criterion			
			L _{Aeq}	L _{AFMax} †	63 Hz	125 Hz	L _{Aeq}	L _{AFMax} †	63 Hz	125 Hz
Daytime	Friday 06/08/21	1408–2300	23 dB	-	41 dB	29 dB	35 dB	-	47 dB	41 dB
	Saturday 07/08/21	0700–2300	29 dB	-	41 dB	31 dB	35 dB	-	47 dB	41 dB
	Sunday 08/08/21	0700–2300	26 dB	-	42 dB	29 dB	35 dB	-	47 dB	41 dB
	Monday 09/08/21	0700–1109	27 dB	-	42 dB	31 dB	35 dB	-	47 dB	41 dB
Night	Friday 06/08/21	2300–0700	22 dB	34 dB	41 dB	26 dB	30 dB	45 dB	47 dB	41 dB
	Saturday 07/08/21	2300–0700	23 dB	39 dB	41 dB	27 dB	30 dB	45 dB	47 dB	41 dB
	Sunday 08/08/21	2300–0700	20 dB	41 dB	38 dB	23 dB	30 dB	45 dB	47 dB	41 dB

† 16th highest maximum noise level event**Plot 1-09**

Period	Date	Time	Noise Level				Criterion			
			L _{Aeq}	L _{AFMax} †	63 Hz	125 Hz	L _{Aeq}	L _{AFMax} †	63 Hz	125 Hz
Daytime	Friday 06/08/21	1500–2300	30 dB	-	39 dB	38 dB	35 dB	-	47 dB	41 dB
	Saturday 07/08/21	0700–2119	31 dB	-	39 dB	38 dB	35 dB	-	47 dB	41 dB
Night	Friday 06/08/21	2300–0700	28 dB	42 dB	39 dB	36 dB	30 dB	45 dB	47 dB	41 dB

† 16th highest maximum noise level event

- 2.06 The noise measurements within Plot 1-09 ended on Saturday evening due to an apparent power issue within the apartment. However, the measured data indicates that noise levels are comfortably within the required criteria, and external measurements previously undertaken show that noise levels are very consistent between Friday and Saturday nights.
- 2.07 On the basis of the above, the development readily demonstrates compliance with Condition 4 of Planning Permission 122519/P3OPA/2019.

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,

Thomas Crabb

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Environmental Noise Solutions Limited