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Ref: 9804-170913-L1

Daniel Harris
DANT Property Group
By email: dh@dantgroup.com

Dear Daniel

9804: CORD BAR, DORSEY STREET, MANCHESTER

Further to our recent involvement at the above address, we are pleased to present the results of the noise limiter sensitivity verification undertaken at Cord Bar, Dorsey Street, Manchester.

1.0 LIMITER REQUIREMENTS

A limiter has been installed within the ground floor bar area at Cord Bar.

Previously, a subjective assessment has been undertaken in accordance with representatives of the Local Authority, in order to achieve a level considered inaudible in the worst affected nearby residential receiver.

In order to allow for extended opening hours to 01:00, the following comments have been made by the Local Authority:

"*Recommendations were made in the initial acoustic report (Clement Acoustics, Reference: 9804-NIA-01RevB, Dated: 25 February 2015) to control noise breakout, including maximum internal music noise levels. Since there have been reports of noise breakout from the premises, we require confirmation that the recommended measures have been installed and also a post completion report to confirm that the recommended levels are being achieved*."

A further visit has therefore been undertaken in order to set a new limit, to be imposed during the proposed additional opening hours, namely 23:00 - 01:00.

Relevant sections of the quoted noise impact assessment 9804-NIA-01 RevB are summarised below:

- We would recommend maximum noise levels as follows

Source	Low Frequency Limits		Overall Limit
	63Hz	125Hz	
Amplified Music	79 dB	75 dB	74 dB(A)

- The levels shown above should be achieved during the proposed hours of extension through the use of a noise limiter. The noise limiter should be calibrated to ensure the levels are not exceeded when activated and should be located such that only management has access.

Clement Acoustic Ltd is a Company registered in England (no. 07958744)

Please note that UKAS accreditation is only applicable to sound insulation testing services

2.0 MEASUREMENT PROCEDURE

In order to verify the limiting level of the installed noise limiter, a white-noise source was played back through the installed sound system, progressively increasing the volume until the limiter was triggered.

Once the increase in volume is halted by the limiter, a generated time history is reviewed in order to verify the threshold level.

This procedure is repeated until a satisfactory level at the measurement position is attained by the noise limiter. Once this is deemed to be achieved, a further two verification measurements are taken within the room in order to validate the verification process.

Measurements have shown that the noise limiter is working within this tolerance, levelling off at **74.1 dB(A)** and **74.0 dB(A)** for the two verification recordings.

3.0 EQUIPMENT

The equipment used for the noise limiter sensitivity was as follows.

- 01dB Black Solo Class 1 Sound Level Meter
- Norsonic Type 1251 Class 1 Calibrator

The sound level meter calibration was verified before and after use and no abnormalities were observed.

4.0 NOISE LIMITER ACCESS

During our site visit, it was noted that the noise limiter was suitably installed and securely enclosed with access to the limiter settings only available to management. This measure would be deemed sufficient to ensure that the settings are not modified without authorisation.

5.0 OTHER FACTORS

It was noted on site that the entrance doors are being used to form a lobby area, with one door closed at all times. It should be ensured that this practice continues during late night hours.

6.0 CONCLUSION

A site visit has been undertaken at Cord Bar, Dorsey Street, Manchester in order to verify the sensitivity of noise limiter installed within the ground floor bar.

Measurements have shown that set noise levels are not exceeded with the currently installed limiter system.

Should permission for extended hours be granted, the limiter settings should be enforced during the hours of 23:00 and 01:00.

Duncan Martin MIOA
Clement Acoustics Ltd