ACOUSTIC CONSULTANTS LTD

Noise Transfer Note

The Little Door & Co
200 Deansgate, Manchester, M3 3NN

Reference: 12007/OP

Client
PSE Associates

Document Control

Version:	Revision Description:	Date:	Author:	Reviewed by:	Approved by:
1.0	First Issue	26/05/2026	Ollie Platts, MIOA	Jonas Lopez, MIOA	Jonas Lopez, MIOA
Rev A	Updated assessment using measured data	22/07/2026	Ollie Platts, MIOA	Blake Lucas, MIOA	Blake Lucas, MIOA

The report has been prepared in good faith, with all reasonable skill and care, based on information provided or available at the time of its preparation and within the scope of work agreement with the Client. We disclaim any responsibility to the Client and others in respect of any matters outside the scope of the above. The report is provided for the sole use of the named Client and is confidential to them and their professional advisors. No responsibility is accepted to other parties.

The report limits itself to addressing solely on the noise, acoustic, and vibration aspects as included in this report. We provide advice only in relation to noise, vibration and acoustics. It is recommended that appropriate expert advice is sought on all the ramifications (e.g. CDM, structural, condensation, fire, legal, etc.) associated with any proposals in this report or as advised and concerning the appointment. It should be noted that noise predictions are based on the current information as we understand it and, on the performances noted in this report. Any modification to these parameters can alter the predicted level. All predictions are in any event subject to a degree of tolerance of normally plus or minus three decibels. If this tolerance is not acceptable, then it would be necessary to consider further measures.

Table of Contents

1.	Introduction	4
2.	Noise Transfer Assessment	5
3.	Summary and Conclusions	7

1. Introduction

PSE Associates appointed Acoustic Consultants Limited (ACL) to undertake a noise impact assessment in relation to a proposed bar 'The Little Door & Co' to be located at 200 Deansgate, Manchester, M3 3NN.

This report provides the results of a preliminary sound insulation test as well as an assessment of noise transfer from the premises to the adjacent Flat Iron restaurant.

2. Noise Transfer Assessment

This below provides the results of the assessment of noise transfer from the premises to the adjacent restaurant.

2.1. Bar Noise Levels

It is understood that the bar has a planned capacity of 60 on the ground floor and up to 140 in the basement. The client has advised that noise levels will likely be between 85-100dB owing to the use of amplified music.

For all calculations we have used previously measured noise levels from a similar style bar with amplified music. This measured noise spectrum is as follows:

Table 1: Octave band sound pressure level for typical bar

Source	Octave Band Sound Pressure Level							dBA
	63	125	250	500	1k	2k	4k	
Typical Bar	102	96	91	95	91	91	85	97

The operational hours of the bar are as follows:

- 0900 - 0100 Sunday to Wednesday
- 0900 - 0300 Thursday to Saturday

As such we anticipate that the loudest hours of the bar shall be outside of Flat Iron opening hours (12:00 to 23:00hrs).

2.2. Flat Iron Sound Transfer

The target indoor ambient noise level for Flat Iron is 55 dB $L_{Aeq,T}$, this is based on typical dining spaces such as noted in BS8233:2014.

Based on a site visit and information provided by the client, the existing wall structure has been assumed to be constructed of 200mm solid brickwork (365kg/m^2).

2.2.1. Ground Floor

ACL were able to undertake a preliminary sound insulation test between the ground floor of the proposed bar and the ground floor of Flat Iron on Thursday 9th July 2026.

From the measured noise data obtained and analysed we provide the following level difference performance of the existing wall between the ground floor and Flat Iron.

Table 2: Level difference per octave band between the ground floor unit and Flat Iron

Parameter	Level Difference, D						
	63	125	250	500	1k	2k	4k
Level Difference (D)	38.7	34.3	37.6	43.9	46.4	51.5	50.0

Using the Typical Bar sound levels contained in Table 1 and the measured sound level difference above we have predicted the typical sound levels in Flat Iron during the proposed bars operational hours below.

Figure 1: Room to room calculation for Flat Iron Ground Floor using measured data

	Hz	Hz	Hz	Hz	Hz	Hz	Hz	dB(A)
	63	125	250	500	1000	2000	4000	Av.
SPL 1 (source room)	102	96	91	95	91	91	85	
Measured Level Difference	38.7	34.3	37.6	43.9	46.4	51.5	50.0	
SPL 2 (receiving room)	63.3	61.7	53.4	51.1	44.6	39.5	35.0	**52.5**

Based on the above we expect noise levels on the ground floor of Flat Iron to be suitably controlled by the existing wall structure.

2.2.2. **Basement**

It was observed there was a fire door between Flat iron basement and the Basement of 200 Deansgate. The fire door opened into back of hours areas of Flat Iron and as such these areas are not considered sensitive.

3. Summary and Conclusions

PSE Associates appointed Acoustic Consultants Limited (ACL) to undertake a noise impact assessment in relation to a proposed bar 'The Little Door & Co' to be located at 200 Deansgate, Manchester, M3 3NN.

This report provides the results of a preliminary sound insulation test as well as an assessment of noise transfer from the premises to the adjacent Flat Iron restaurant

Based on measurements/calculations of the existing walls/ceiling we expect noise levels in Flat Iron to be suitably controlled by the existing building fabric.

Note also that we anticipate that the loudest hours of the bar shall fall outside the operational hours of Flat Iron and typical office hours.



Head Office: 194 West Street, Bedminster, Bristol, BS3 3NB
T: 0117 986 2956

www.acoustic-ltd.co.uk

Registered Office: 194 West St, Bristol, BS3 3NB Registered No: 8544901