Chartered Building Consultancy

Acoustic South East

Discharge of Planning Condition

Report by: Scott Castle BSc (Hons) CEnvH, MCIEH MIOA

Date: 24/06/2025

Project: J3781

Issue 1

Site: **Unit 2, 28 Goring Street, Goring. BN12 4AD**

Client: **Little Green Apples Limited**

Constructionline Part of Capita plc

CQMS Safety Scheme

ANC THE ASSOCIATION OF NOISE CONSULTANTS

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Acoustic South East is a Trading Name of Acoustic Associates Sussex Ltd, Company Registration No: 5646519

Contents

1 Introduction and Executive Summary - 2 -

2 Context, Noise Criteria & Noise Assessment Methodology - 3 -

2.1 Context ..... - 3 -

2.2 Adur and Worthing Soundproofing Requirements ..... - 3 -

2.3 Previous Works carried Out ..... - 3 -

2.4 Works Implemented by the Client ..... - 3 -

3 Testing – 24/06/2025 - 4 -

4 Discussion - 4 -

5 Appendix A – Sound Insulation performance Graphs - 5 -

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Issue 1	24/06/2025	Original Issue

1 Introduction and Executive Summary

Acoustic South East have been appointed to undertake an acoustic assessment to discharge a planning condition. Specifically, Worthing Borough Council consented a change of use from E(B) to a sui generis (wine bar with food) under AWDM/1274/23. Condition 3 required that the use hereby permitted shall not commence unless and until a satisfactory sound test has been submitted and approved in writing.

A revisit to site on 24th June 2025 allowed sound testing to be carried out to the front of house area and the two front HMO rooms which overlook Goring Road. The sound insulation performance of the tests were 53dB and 61dB $D_{nTw}+C_{tr}$. These exceed the requirements of Adur and Worthing Council and the local planning authority may now discharge condition 3 of AWDM/1274/23.

2 Context, Noise Criteria & Noise Assessment Methodology

2.1 Context

Planning consent was provided by Adur and Worthing Council under AWDM/1274/23 on 20th March 2024 for a change of use from a fish and chip shop to a wine bar (sui generis). Specifically, condition 3 states as follows

> 03. The development hereby permitted shall be implemented in accordance with the recommendations set out within the Noise Assessment Ref: J3781 Issue 1 dated 30/01/2024 by Acoustic South East. The use hereby permitted shall not commence unless and until a satisfactory sound test has been submitted to and approved in writing by the Local Planning Authority demonstrating that the sound insulation measures installed between the adjoining premises meet the performance levels stipulated in the Acoustic Report submitted 1/2/24.

2.2 Adur and Worthing Soundproofing Requirements

At the outset, it was identified that Adur and Worthing Environmental Health department as technical consultees to the local planning authority wished to see an airborne measured sound insulation performance of at least 50dB $D_{nTw}+C_{tr}$.

2.3 Previous Works carried Out

Acoustic South East carried out investigatory works and made recommendations to improve the party ceiling between the ground floor premises and the residential HMO above. The report was dated 30/01/2024

2.4 Works Implemented by the Client

2.4.1 Walls

2 x 15mm SoundBloc plasterboard with insulated metal stud work.

2.4.2 Ceiling

F.O.H Plasterboard ceiling, plaster skimmed and painted. Gyproc MF ceiling with acoustic hangers and 150mm void.

This is to incorporate a minimum of 100mm of dense mineral wool and 2x 12.5mm Soundbloc board to the underside.

3 Testing – 24/06/2025

A visit was made to the site on 24th June 2025 in order to test the performance of the separating ceiling partition prior to the site being opened to the public.

This involved exciting the ground floor commercial premises with high levels of pink noise in order to test the performance of the party floor in a method approved in ISO 140-4:1998 for airborne testing. Measurements were made at source, as well as the two front bedrooms which overlook Goring Road. With the sound source signal measured in the first-floor bedrooms, the sound source (pink noise) was switched off with further readings taken in the receiving room spaces in order to measure the background noise level.

Given that the receive rooms were furnished, it was not necessary to undertake reverberation time testing.

The results of the two sound insulation tests were 53dB $D_{nTw}+C_{tr}$ and 61dB $D_{nTw}+C_{tr.}$ The performance graphs can be seen in Appendix A.

4 Discussion

The results of the sound insulation testing indicate that the criterion set by Adur and Worthing Council has been exceeded. It is therefore argued that the local planning authority may now discharge condition 3 of AWDM/1274/23.

5 Appendix A – Sound Insulation performance Graphs

Standardized level difference according to ISO 140-4
Field measurements of airborne sound insulation between rooms

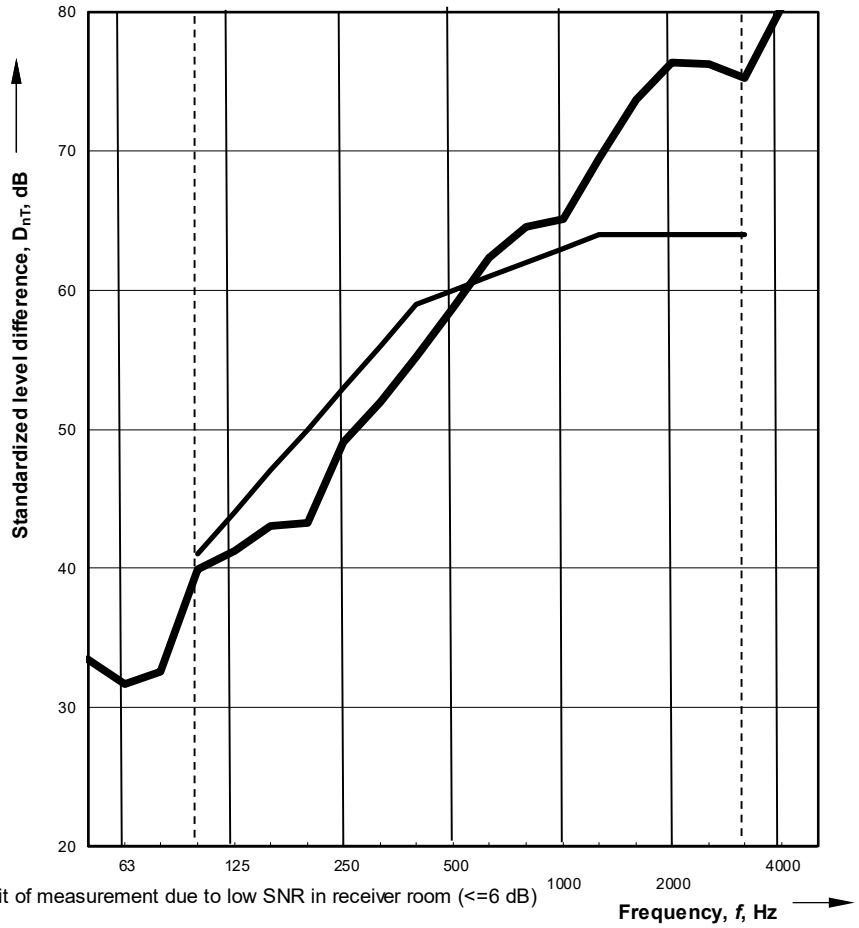
Client: Little Green Apples Limited Date of test: 24/06/2025

Description and identification of the building construction and test arrangement, direction of measurement:
Vertical Airborne Sound Insulation Test
Ground Floor Commercial Space (Source Room) to First Floor Residential Space (Receive Room)
Unit 2, 28 Goring Street, Goring. BN12 4AD

Source room volume: m³
Receiving room volume: m³

Frequency range according to the curve of reference values (ISO 717-1)

Frequency *f* Hz	D_{nT} (one-third octave) dB	
50	33.4	
63	31.7	
80	32.6	
100	39.9	
125	41.3	
160	43.0	
200	>= 43.3	*
250	49.0	
315	51.9	
400	55.2	
500	58.7	
630	62.3	
800	>= 64.6	*
1000	>= 65.1	*
1250	>= 69.4	*
1600	>= 73.7	*
2000	>= 76.4	*
2500	>= 76.3	*
3150	>= 75.2	*
4000	>= 80.4	*
5000	>= 83.7	*



* Result should be taken as limit of measurement due to low SNR in receiver room (<=6 dB)

Rating according to ISO 717-1

$D_{nT,w}$ $(C;C_{tr})$ = 60 (; -7) dB; $D_{nT,w} + C_{tr}$ = 53 dB

Evaluation based on field measurement
results obtained by an engineering method

No. of test report:	J3781	Name of test institute:	ACOUSTIC SOUTH EAST
Date:	24/06/2025	Signature:	SCOTT CASTLE

Standardized level difference according to ISO 140-4
Field measurements of airborne sound insulation between rooms

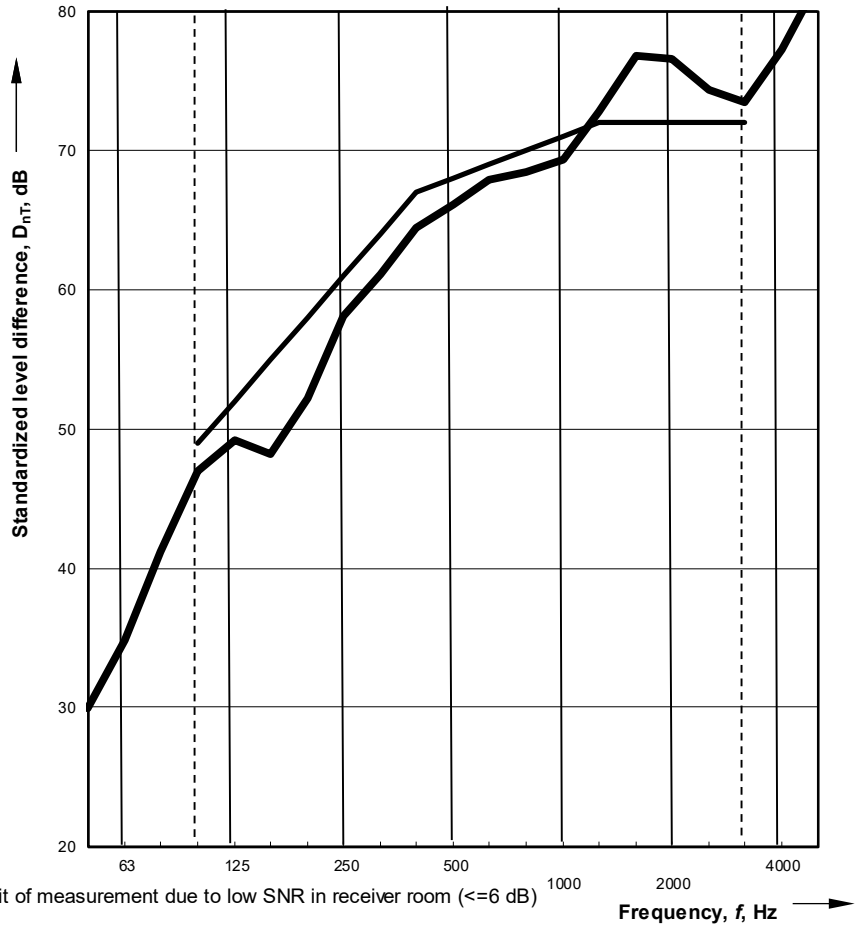
Client: Little Green Apples Limited Date of test: 24/06/2025

Description and identification of the building construction and test arrangement, direction of measurement:
Vertical Airborne Sound Insulation Test
Ground Floor Commerical (Source Room) to First Floor Residential Space (Receive Room)
Unit 2, 28 Goring Street, Goring. BN12 4AD

Source room volume: m³
Receiving room volume: m³

Frequency range according to the curve of reference values (ISO 717-1)

Frequency f Hz	D_{nT} (one-third octave) dB	
50	>= 29.9	*
63	34.8	
80	41.2	
100	>= 47.0	*
125	49.2	
160	48.2	
200	>= 52.2	*
250	>= 58.1	*
315	61.1	
400	64.4	
500	>= 66.1	*
630	>= 67.9	*
800	>= 68.5	*
1000	>= 69.3	*
1250	>= 72.8	*
1600	>= 76.8	*
2000	>= 76.6	*
2500	>= 74.4	*
3150	>= 73.5	*
4000	>= 77.3	*
5000	>= 82.1	*



* Result should be taken as limit of measurement due to low SNR in receiver room (<=6 dB)

Rating according to ISO 717-1

$D_{nT,w}(C;C_{tr})$ = 68 (; -7) dB; $D_{nT,w}+C_{tr}$ = 61 dB

Evaluation based on field measurement
results obtained by an engineering method

No. of test report: J3781 Name of test institute: ACOUSTIC SOUTH EAST
Date: 24/06/2025 Signature: SCOTT CASTLE