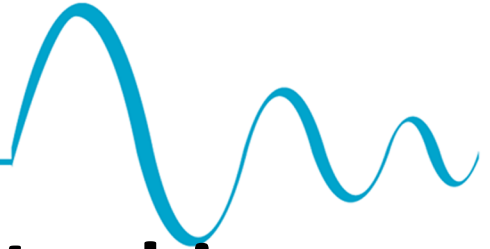


Acoustic South East

51 Teville Road, Worthing

Sound Insulation Test Report



SOUND INSULATION TEST REPORT

Address of building tested	51 Teville Road, Worthing, BN11 1UX
Property type(s)	Rooms for Residential Purposes
Date(s) of testing	13 Aug 2026
ANC Registered Testers	Simon Barrett
Report prepared for	ISSO Investments Ltd 3 Norton Close, Hove, BN3 3AP
Report created at	19/08/2026 14:07:29
Report number	J4265
Registered ANC test organisation	Acoustic Associates Sussex Ltd t/a Acoustic South East, 8 Highdown House, Shoreham-by-Sea, BN43 5PB
ANC organisation number	117
Report prepared by	Simon Barrett BSc(Hons) MSc MIOA MInstSCVE
Checked by	Scott Castle BSc(Hons) CEnvH MCIEH MIOA



NOTICE TO BUILDING CONTROL OFFICER

Certification of Test Results

ANC operates an online, secure, paperless certification system for sound insulation tests.

The online verification (certification) system means that Building Control Bodies will need to follow the steps below to verify the results quoted in the relevant test report:

1. Go to the ANC secure server at www.anc-advance.co.uk
2. Enter the following in the spaces provided:

Task Number:	191668
Task Password:	FREFQL

3. Select role "Building Control Officer" and press "Login"
4. You will then see a summary list of results of all the Tests undertaken to date for this project as held on the secure primary server and you can print this table for your records.

EXECUTIVE SUMMARY

Acoustic South East is listed on the list of ANC Registered Members and was at the time of the testing.

This is an ANC Registered report, with the unique registration number as detailed on page 3 of the report.

The results show that the room pairs tested satisfy the standard requirements of Approved Document E but they do not satisfy the requirements set out in Planning Condition 5.

Remedial work will be required in order to bring the separating construction up to a standard capable of discharging the planning condition.

It is, however, questioned whether the enhanced requirement is necessary given that the test was carried out between room uses which have not really changed: The Ground floor commercial space is still a commercial space, just smaller and the 1st floor bedroom was also previously a bedroom prior to the ground floor alterations. Whilst the first floor room is now part of an HMO, it is and always was a bedroom. Therefore the 7dB enhancement over standard ADE requirements is considered un-necessarily high.

RESULTS SUMMARY

TABLE 1: Airborne Tests

Test No.	Source room	Vol m ³	Receiver room	Vol m ³	Project type	Construction type	$D_{nT,w} + C_{tr}$, dB		Pass / fail †
							Result	Target	
1	Ground Floor Commercial	50	1st Floor Front Large Bedroom	45	RRCON	Floor (F1)	45	≥ 43	✓

KEY:

All tests appended with a **letter** are retests (ordered alphabetically)

Project types:

HFNB	Purpose built houses and flats
RRNB	Purpose-built rooms for residential purposes
HFCON	Houses or flats formed by material change of use
RRCON	Rooms for residential purposes formed by material change of use.

Pass / fail:

† Responsibility for deciding on compliance with Building Regulations lies with the Building Control body.

✓	Performance at or better than the performance standard cited in Building Regulations Approved Document E
✓ ^c	The highlighted test represents a deviation from ADE B2.13 and B2.14 meaning that the reported test result will not represent the true impact performance of the floor without the soft covering. This should be brought to the attention of the client and the Building Control Officer.
×	Performance is worse than the performance standard cited in Building Regulations Approved Document E
H	Historic building - Result should be displayed in a conspicuous place inside the building in accordance with Regulation 1 or 20(1) and (5) - ADE ref section 0.7

CONSTRUCTION TYPES

Reference	Wall / floor	Description
F1	Floor	Held by client

APPLICABLE TEST CODES / STANDARDS

Tests have been taken in full accordance with the following test codes and standards. Any deviations are recorded in the individual test reports.

Building Regulations:

All the procedures in Annex B of Approved Document E of The Building Regulations have been followed unless stated otherwise in the individual test report. Approved Document E of The Building Regulations: *Resistance to the passage of sound* sets out the following requirements:

Houses and flats:

Airborne Sound Insulation:

The insulation values for airborne insulation for conversion floors & walls shall not be less than $D_{nT,w} + C_{tr} = 43$ dB.

Local Authority Planning Condition 5:

Airborne Sound Insulation - Enhanced Requirement:

The insulation values for airborne insulation for conversion floors between ground floor commercial and 1st floor residential shall not be less than $D_{nT,w} + C_{tr} = 50$ dB.

Standards:

All sound insulation tests detailed in this report have been carried out in full accordance with National Regulations as well as:

BS EN ISO 140-4 Acoustics - Measurement of sound insulation in buildings and of building elements - Part 4: Field measurements of airborne sound insulation between rooms 1998

Where any conflict may occur between the documents, National Regulations take precedence

Results of the measurements, in terms of single-figure ratings for airborne sound insulation are calculated as Weighted Standardised Level Differences $D_{nT,w} + C_{tr}$ in accordance with BS EN ISO 140-4 and BS EN ISO 717-1 Acoustics - Rating of sound insulation in buildings and of building elements - Part 1: Airborne sound insulation 1997.

Reverberation Time measurements are specifically defined in BS EN ISO 3382 Measurement of Room Acoustic Parameters - Part 2: Reverberation Time in Ordinary Rooms 2008

Test Methods and Procedures are also detailed within the ANC Practice Guidance for sound insulation testing in dwellings v2.2 2026

All results criteria are set out in Approved Document E 2003 (as amended 2015) of The Building Regulations 2010: Resistance to the passage of sound

TEST PROCEDURES

Airborne sound insulation

One loudspeaker was placed facing into a corner, to create a diffuse sound field. An amplifier was used to broadcast pink noise through the loudspeaker using a noise generator. The spectrum shape of the reverberant noise was checked to ensure that each 1/3 octave band was within 6 dB of its neighbouring bands. The spectrum shape was adjusted, if necessary, to comply with this criterion (Firstly loudspeaker position is adjusted until the criterion is achieved. If this fails the spectrum shape is adjusted using a graphic equaliser).

Measurements were taken in the source room at each 1/3 octave band centre frequency between 100 Hz and 3.15 kHz using the “sweep” technique as described in BS EN ISO140-4 and BS EN ISO 140-7 (at least 30 seconds). Further measurements were then taken in the same way in the receiving room on the other side of the test element.

This process was then repeated with the single loudspeaker in a different location in the source room and measurements carried out there and in the receiving room.

The reverberation time was also obtained using the interrupt stationary method (using pink noise as the source) for each relevant 1/3 octave centre frequency in the receiving room. This was spatially averaged over 6 positions in the room using 1 source position.

Ambient sound pressure levels (without the source operating) were also taken at each frequency in the receiving rooms using the “sweep” technique as described in BS EN ISO140-4 and BS EN ISO 140-7 (at least 30 seconds). These too were spatially-averaged. Dominant sources of background noise were as follows: Road Traffic

TEST CONDITIONS

Tests were carried out in completed but vacant rooms. The 1st floor residential space was carpeted.

EQUIPMENT USED

Description	Serial number	Manufacturer	Model number	Calibration certificate number	Calibration expires
Pink Noise 4	PinkNoise4	NTi	Minirator MR1	N/A	N/A
RCF Art 4	VBCF01264	RCF	Art 310A MK4	N/A	N/A
Norsonic A	31460	Norsonic	Nor118	TCRT25-1449	08/06/2027
Norsonic A - Microphone	91973	Norsonic	1225	TCRT25-1449	09/06/2027
Norsonic A-Preamplifier	30779	Norsonic	1206	TCRT25-1449	09/06/2027
Nor A Calibrator	30974	Norsonic	1251	TCRT25/1438	04/06/2027

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

Site Name: 51 Teville Road, Worthing

Date of test: 13/08/2026

Source room: Ground Floor
Commercial

Receiving room: 1st Floor Front Large
Bedroom

Partition type: Floor

Construction type and description:

F1 Held by client

Deviations from test procedures and other relevant observations (if any):

None

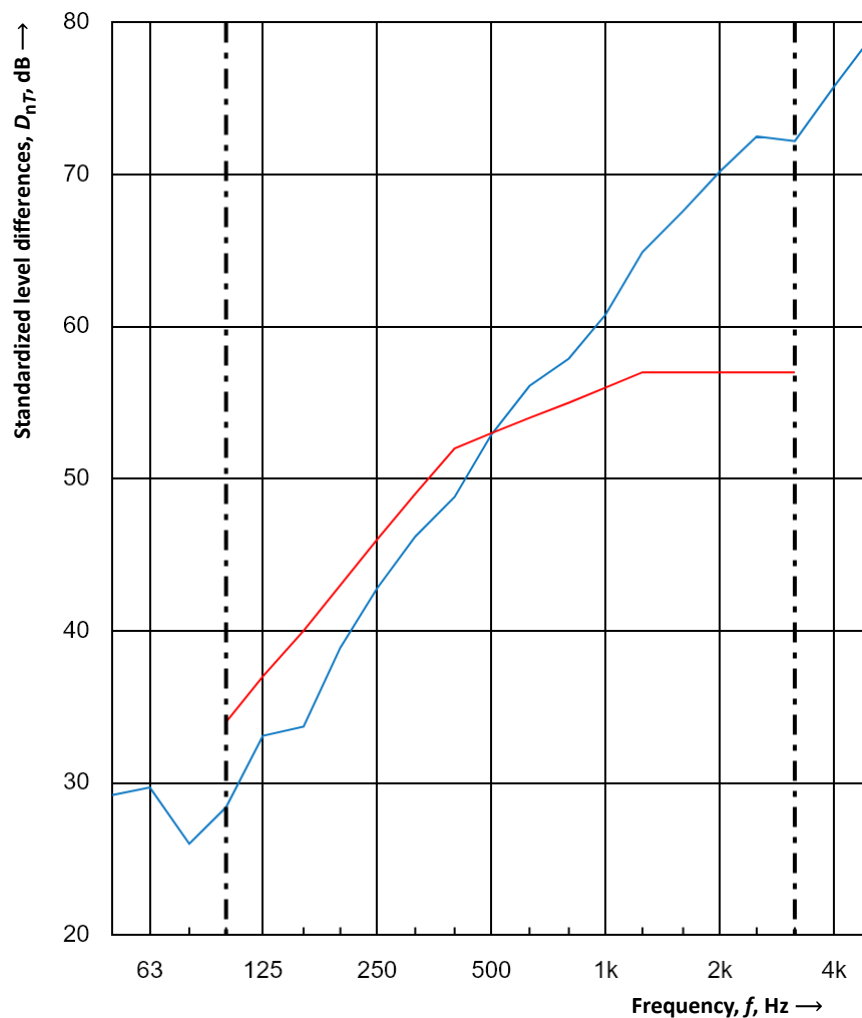
Source room volume: 50 m³

Receiving room volume: 45 m³

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

Frequency <i>f</i> Hz	<i>D_{nT}</i> (one-third octave) dB
50	29.2
63	29.7
80	26.0
100	28.4
125	33.1
160	33.7
200	38.9
250	42.8
315	46.2
400	48.8
500	52.9
630	56.1
800	57.9
1000	60.8
1250	64.9
1600	67.6
2000	70.2
2500	72.5
3150	72.2
4000	75.8
5000	≥ 79.0 *

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



Rating according to ISO 717-1

$D_{nT,w}(C_{tr}) = 53 (-8)$ dB

$D_{nT,w} + C_{tr} = 45$ dB

Target: ≥ 43 dB

PASS

Evaluation based on field measurement results obtained by an engineering method

ANC Task / Test No.: 191668/1

Name of test institute: Acoustic Associates Sussex Ltd t/a Acoustic South East

Person in charge of test: Simon Barrett