CERTIFICATION OF PRE-COMPLETION SOUND INSULATION TESTING

DATE TASK ACCESSED
07 July 2026

Task number	191527	**Password**	9FRA9P	**Registered organisation number**	107
Task registration date	06/07/2026			**Registered organisation name**	Peninsular Acoustics
Client	Shellco 148 Limited			**Registered organisation address**	Office 402 Cotton Exchange, Bixteth Street, Liverpool, L3 9LQ
Site address	424 Stockport Road, Manchester, M12 4EX			**Registered organisation e-mail**	J.howell@peninsularacoustics.co.uk

Test ID	Test Date	Source Room	Receiving Room	Project Type	Wall / Floor	Type	Target	Descriptor	Result	Pass / Fail †	Retest Comments
1	24/06/2026	Flat 2 Living Room /Kitchen	Flat 1 Bedroom	HFNB	Wall	New Test	≥ 45 dB	$D_{nT,w} + C_{tr,}$	52 dB	✓	New Test
2	24/06/2026	Flat 6 Living Room /Kitchen	Flat 5 Bedroom	HFNB	Wall	New Test	≥ 45 dB	$D_{nT,w} + C_{tr,}$	52 dB	✓	New Test
3	24/06/2026	Flat 6 Living Room /Kitchen	Flat 2 Living Room /Kitchen	HFNB	Floor	New Test	≥ 45 dB	$D_{nT,w} + C_{tr,}$	60 dB	✓	New Test
4	24/06/2026	Flat 6 Living Room /Kitchen	Flat 2 Living Room /Kitchen	HFNB	Floor	New Test	≤ 62 dB	$L'_{nT,w,}$	60 dB	✓	New Test
5	24/06/2026	Flat 6 Bedroom	Flat 2 Bedroom	HFNB	Floor	New Test	≥ 45 dB	$D_{nT,w} + C_{tr,}$	57 dB	✓	New Test
6	24/06/2026	Flat 6 Bedroom	Flat 2 Bedroom	HFNB	Floor	New Test	≤ 62 dB	$L'_{nT,w,}$	41 dB	✓	New Test
7	24/06/2026	Ground Floor Commercial (Pharmacy)	Flat 3 Living Room /Kitchen	HFNB	Floor	New Test	≥ 45 dB	$D_{nT,w} + C_{tr,}$	50 dB	✓	New Test

HFNB - Purpose built houses and flats
HFCON - Houses and flats formed by material change of use

RRNB - Purpose built rooms for residential purposes
RRCON - Rooms for residential purposes formed by material change of use

✓ Performance at or better than the performance standard cited in Building Regulations Approved Document E
✗ Performance is worse 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.
† *Responsibility for deciding on compliance with Building Regulations lies with the Building Control Body*
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

To check this certificate against the official online test log, please go to http://www.theanc.co.uk, follow the link to the ADvANCE website and input **TASK NUMBER: 191527** and **PASSWORD: 9FRA9P**

This Certificate confirms that the tests described in the list above gave the results stated and were carried out by the named ANC registered test organisation, at the stated property, on the stated date and that the named test organisation was a member of the ANC Scheme at the time of the tests.

PENINSULAR
ACOUSTICS

APPROVED DOCUMENT E 2003
ANC
REGISTERED PRE-COMPLETION TEST BODY

424 Stockport Road, M12 4EX

Sound Insulation Test Report

SOUND INSULATION TEST REPORT

Address of building tested	424 Stockport Road, Manchester, M12 4EX
Property type(s)	Houses/Flats
Date(s) of testing	24 Jun 2026
ANC Registered Testers	Joel Phillips
Report prepared for	Shellco 148 Limited B2-B36 Tameside Business Park Windmill Lane Denton M32 3QS
Report created at	07/07/2026 10:15:01
Report number	PA2141-R01-P01
Registered ANC test organisation	Peninsular Acoustics, Office 402 Cotton Exchange, Bixteth Street, Liverpool, L3 9LQ
ANC organisation number	107
Report prepared by	Ruairi Savage
Checked by	Joel Phillips

ADvANCE

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: **191527**
   Task Password: **9FRA9P**

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

This report is an ANC Registered Report with the unique registration number 191527.

Sound Insulation Tests have been conducted at 424 Stockport Road, Manchester M12 4EX, which is a new build apartment building consisting of 9no. new flats on the upper three floors with the ground floor proposed as a medical center and pharmacy.

The separating walls tested between flats have passed the airborne tests, achieving the requirements of Building Regulations Document E 2003.

The separating floors tested between flats have passed the airborne and impact tests, achieving the requirements of Building Regulations Document E 2003.

The separating floor tested between the ground floor commercial unit and first floor accomodation achieved 50 dB $D_{nT,w} + C_{tr}$.

In summary all tests have passed, achieving the requirements of Building Regulations Document E 2003.

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	Flat 2 Living Room /Kitchen	53	Flat 1 Bedroom	26	HFNB	Wall (W1)	52	≥ 45	✓
2	Flat 6 Living Room /Kitchen	53	Flat 5 Bedroom	26	HFNB	Wall (W1)	52	≥ 45	✓
3	Flat 6 Living Room /Kitchen	53	Flat 2 Living Room /Kitchen	53	HFNB	Floor (F1)	60	≥ 45	✓
5	Flat 6 Bedroom	27	Flat 2 Bedroom	27	HFNB	Floor (F1)	57	≥ 45	✓
7	Ground Floor Commercial (Pharmacy)	85	Flat 3 Living Room /Kitchen	53	HFNB	Floor (F1)	50	≥ 45	✓

TABLE 2: Impact Tests

Test No.	Source room	Vol m^3	Receiver room	Vol m^3	Project type	Construction type	$L'_{nT,w}$, dB		Pass / fail †
							Result	Target	
4	Flat 6 Living Room /Kitchen	53	Flat 2 Living Room /Kitchen	53	HFNB	Floor (F1)	60	≤ 62	✓
6	Flat 6 Bedroom	27	Flat 2 Bedroom	27	HFNB	Floor (F1)	41	≤ 62	✓

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	Timber laminate, 28mm Cellecta Screed board with resilient layer, Kingspan MD50, 170mm Reinforced Concrete Composite Slab, suspended MF on acoustic hangers with plasterboard layer
W1	Wall	2 x 15mm Gyproc plasterboard, twin Gypframe studs, mineral wool insulation between the studs

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:

Building Regulations 2000 - Amendment to Part E (With effect from 1st July 2003)

The 2003 amendment (and subsequent amendments) to the Building Regulations Part E included a change in the way the 'single number value' for sound insulation is calculated. Instead of just $D_{nT\,w}$, the amended document requires the separate calculation of the low frequency performance of the separating element using a parameter known as 'the spectrum adaptation term' or C_{tr}. This is *added* to $D_{nT,w}$ so that the new single number is known as $D_{nT,w}$ *plus* C_{tr}! Because C_{tr} is usually a negative value (e.g. about -8 or -9 for a timber floor), the final figure is usually lower than the equivalent $D_{nT,w}$ number!

The airborne sound insulation requirements are for a $D_{nT,w} + C_{tr}$ value of 45 dB for purpose built dwellings (i.e. new build) and 43 dB for dwellings formed by a material change of use (i.e. conversions).

For impact sound insulation, the required values are $L'_{nT,w}$ of 62 dB and 64 dB respectively for 'new builds' and 'conversions'.

Note: For airborne testing a *bigger* value is better while for impact testing a *smaller* value is better.

Standards:

BS EN ISO 140-4:1998

BS EN ISO 140-7:1998

BS EN ISO 717-1:1996 (with 2006 amendment)

BS EN ISO 717-2:1998 (with 2006 amendment)

BS EN ISO 3382 - 2008

Annex B of Approved Document E 2003, incorporating 2004, 2010 and 2015 amendments.

ANC Testers' Manual 2025

TEST PROCEDURES

Airborne sound insulation

The separating elements (floors or walls) were tested for airborne sound insulation in full accordance with the methodology described in BS EN ISO 140:1998 Part 4 (airborne), with additional guidance from BS EN ISO 16283-1:2014, where applicable. All of the procedures described in Annex B of the 2003 edition (with later amendments) of Part E of the Building Regulations were followed, unless any deviations have been stated within this report.

Airborne sound insulation tests through the separating floors were made with the dodecahedron sound source placed on its tripod stand in the corners of the source room, above (or below) the test partition, taking care not to excite the flanking walls. Two source positions, with one measurement at each position, were used for each test.

Airborne sound insulation tests through the separating walls were made with the dodecahedron sound source placed on its tripod stand in the corners of the source room, opposite the test partition, taking care not to excite the flanking walls. Two source positions, with one measurement at each position, were used for each test.

The airborne test procedure followed procedure No.2 in the ANC Testers Manual 2026 (single sound source, manually held moving microphone).

All source and receiver room measurements, including background noise, were made using a manual, moving microphone according to the 'cylindrical method' described in the ANC Testers Manual 2026 and in BS EN ISO 16283-1:2014. Averaging times for each sweep were at least 30 seconds.

Reverberation time measurements were carried out according to the 'engineering method' of ISO3382-2:2008, using interrupted noise, two source positions and three 'static' measurements, corresponding to each source position.

The room to room sound insulation measurements and reverberation time measurements (in receiving rooms) were carried out in one third octave bands from 100 Hz to 3150 Hz and the single number values for $D_{nT,w} + C_{tr}$ (airborne) were calculated using the methodology described in BS EN ISO 717: 1996 parts 1 (including the 2006 amendment).

Calculation Software 'ANC Example Airborne Version 1.2 Peninsular v1'.

The ISO 717 calculations were carried out using the ANC example airborne spreadsheet version 1.2.

Impact sound insulation

The separating floors were tested for impact sound insulation in full accordance with the methodology described in BS EN ISO 140:1998 Part 7 (impact), with additional guidance from BS EN ISO 16283-2:2015, where applicable. All of the procedures described in Annex B of the 2003 edition (with later amendments) of Part E of the Building Regulations were followed, unless any deviations have been stated within this report.

Impact tests were made with the tapping machine in four positions on the separating floor, with one receiver room measurement corresponding to each tapper position.

The impact test procedure followed procedure No.6 in the ANC Testers Manual 2026 (tapping machine, manually held moving microphone).

All receiver room measurements, including background noise, were made using a manual, moving microphone according to the 'cylindrical method' described in the ANC Testers Manual 2026 and in BS EN ISO 16283-1:2014. Averaging times for each sweep were at least 30 seconds.

Reverberation time measurements were carried out according to the 'engineering method' of ISO3382-2:2008, using interrupted noise, two source positions and three 'static' measurements, corresponding to each source position.

The room to room sound insulation measurements and reverberation time measurements (in receiving rooms) were carried out in one third octave bands from 100 Hz to 3150 Hz and the single number values for $L'_{nT,w}$ (impact) were calculated using the methodology described in BS EN ISO 717: 1996 parts 2 (including the 2006 amendment).

Calculation Software 'ANC Example Impact Version 1.3 Peninsular v1'.

The ISO 717 calculations were carried out using the ANC example impact spreadsheet version 1.3.

TEST CONDITIONS

The property is a new build apartment building consisting of 9no. new flats across the upper 3 floors. The ground floor is proposed as a medical centre with pharmacy.

Observations in relation to Test Procedure

Flat 5 had no front entrance door at the time of testing.

The ground floor commercial unit contained lots of building materials and insulation and was therefore highly damped. It also had no internal door to the medical center and were several gaps around penetrations in the ceiling which had not yet been plastered.

The impact tests were tested with the tapping machine on the timber laminate floor finish.

Kitchen units were present on the separating wall and opened for the sound insulation test.

Building control may require a greater test result between the residential and commercial units, though for the purpose of this report we have just considered the results in relation to 'residential to residential' separation.

Deviations in relation to Test Procedure

No deviations apart from Flat 5 entrance door missing, and ground floor commercial unit ceiling not plastered.

Background Noise

Background noise was traffic noise from surrounding roads.

Limit of Measurement

Limit of measurement occurs where the receiver room level is within 6 dB of the background sound level in the test rooms, in the frequency bands indicated on the test chart. Where limit of measurement has occurred with the tests described in this report, care was taken to minimise the effect and the appropriate correction applied. There was no effect on the overall test results.

Calibration

The measurement instrument was calibrated on-site before and after each sequence of tests, to a level of 114.0 dB @ 1kHz. No drift occurred. Where applicable the tapping machine was set up on a level surface, immediately before and after the tests, and the hammer drop height confirmed to be 40 mm, as required by the test standards, using the supplied spacer tool.

EQUIPMENT USED

Description	Serial number	Manufacturer	Model number	Calibration certificate number	Calibration expires
Dodecahedron	2766277	Norsonic	276	N/A	N/A
Amplifier	28256013	Norsonic	282	N/A	N/A
Preamplifier	13493	Norsonic	1209	UCRT25/1795	27/06/2027
Microphone	107012	Norsonic	1225	UCRT25/1795	27/05/2027
Sound Level Meter (L)	1404080	Norsonic	140	UCRT25/1795	27/05/2027
Tapping Machine	2776345	Norsonic	277	52118	12/09/2027
Calibrator (140)	125525650	Norsonic	1255	UCRT25/1792	26/05/2027

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

Site Name: 424 Stockport Road **Date of test:** 24/06/2026

Source room: Flat 2 Living Room /Kitchen **Receiving room:** Flat 1 Bedroom **Partition type:** Wall

Construction type and description:

W1 2 x 15mm Gyproc plasterboard, twin Gypframe studs, mineral wool insulation between the studs

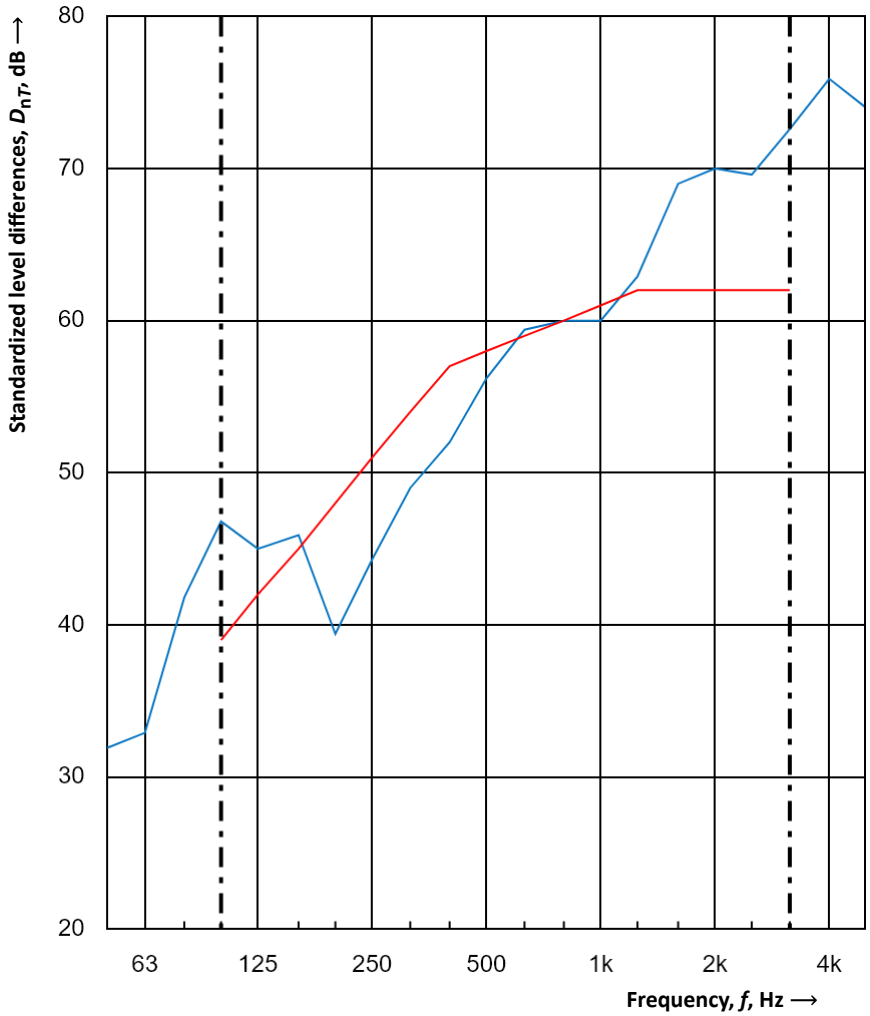
Deviations from test procedures and other relevant observations (if any):
None

Source room volume: 53 m^3
Receiving room volume: 26 m^3

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

Frequency f Hz	D_{nT} (one-third octave) dB
50	≥ 31.9 *
63	32.9
80	41.8
100	46.8
125	45.0
160	45.9
200	39.4
250	44.3
315	49.0
400	52.0
500	56.2
630	59.4
800	60.0
1000	60.0
1250	≥ 62.9 *
1600	≥ 69.0 *
2000	≥ 70.0 *
2500	≥ 69.6 *
3150	≥ 72.6 *
4000	≥ 75.9 *
5000	≥ 74.0 *

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



Rating according to ISO 717-1
$D_{nT,w}(C_{tr})$ = 58 (-6) dB $D_{nT,w}+C_{tr}$ = 52 dB Target: ≥ 45 dB **PASS**
Evaluation based on field measurement results obtained by an engineering method

ANC Task / Test No.: 191527/1 Name of test institute: Peninsular Acoustics
Person in charge of test: Joel Phillips

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

Site Name: 424 Stockport Road **Date of test:** 24/06/2026

Source room: Flat 6 Living Room /Kitchen **Receiving room:** Flat 5 Bedroom **Partition type:** Wall

Construction type and description:

W1 2 x 15mm Gyproc plasterboard, twin Gypframe studs, mineral wool insulation between the studs

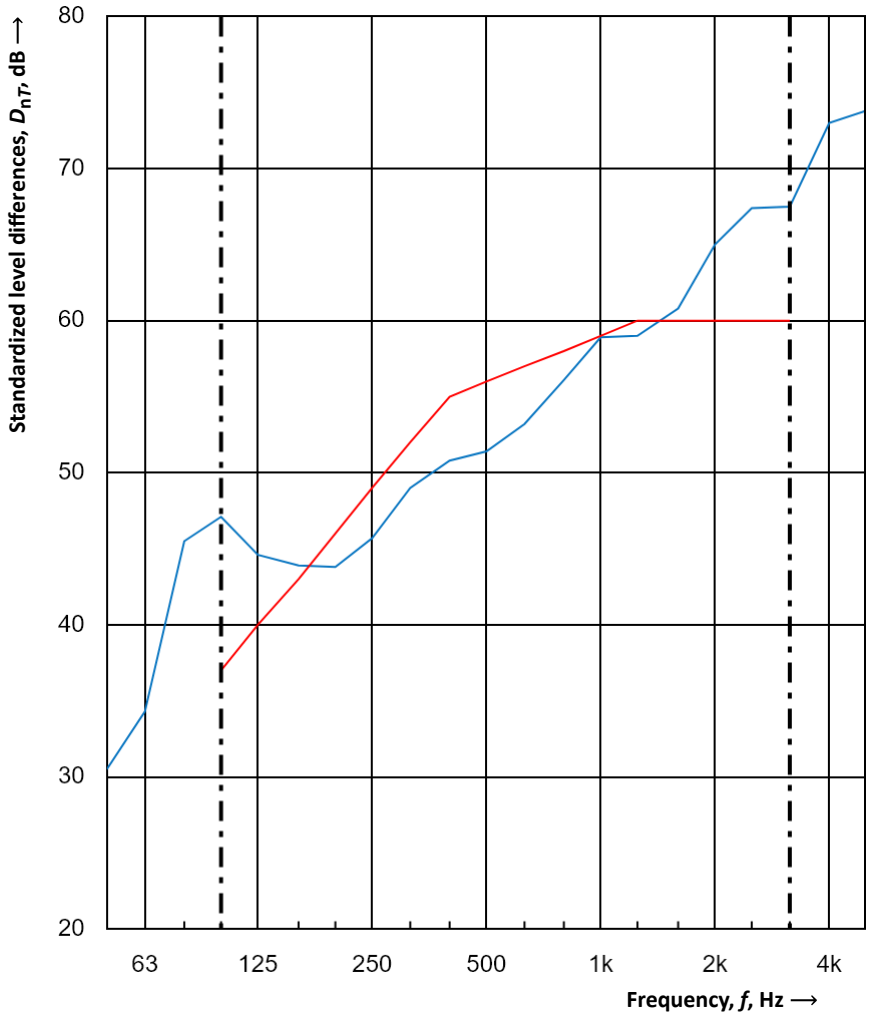
Deviations from test procedures and other relevant observations (if any):
Flat 5 entrance door missing.

Source room volume: 53 m^3
Receiving room volume: 26 m^3

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

Frequency f Hz	D_{nT} (one-third octave) dB
50	30.5
63	34.3
80	45.5
100	47.1
125	44.6
160	43.9
200	43.8
250	45.7
315	49.0
400	50.8
500	51.4
630	53.2
800	56.1
1000	58.9
1250	59.0
1600	60.8
2000	65.0
2500	≥ 67.4 *
3150	67.5
4000	≥ 73.0 *
5000	≥ 73.8 *

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



Rating according to ISO 717-1
$D_{nT,w}(C_{tr})$ = 56 (-4) dB $D_{nT,w}+C_{tr}$ = 52 dB Target: ≥ 45 dB **PASS**
Evaluation based on field measurement results obtained by an engineering method

ANC Task / Test No.: 191527/2 Name of test institute: Peninsular Acoustics
Person in charge of test: Joel Phillips

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

Site Name: 424 Stockport Road **Date of test:** 24/06/2026

Source room: Flat 6 Living Room /Kitchen **Receiving room:** Flat 2 Living Room /Kitchen **Partition type:** Floor

Construction type and description:

F1 Timber laminate, 28mm Cellecta Screed board with resilient layer, Kingspan MD50, 170mm Reinforced Concrete Composite Slab, suspended MF on acoustic hangers with plasterboard layer

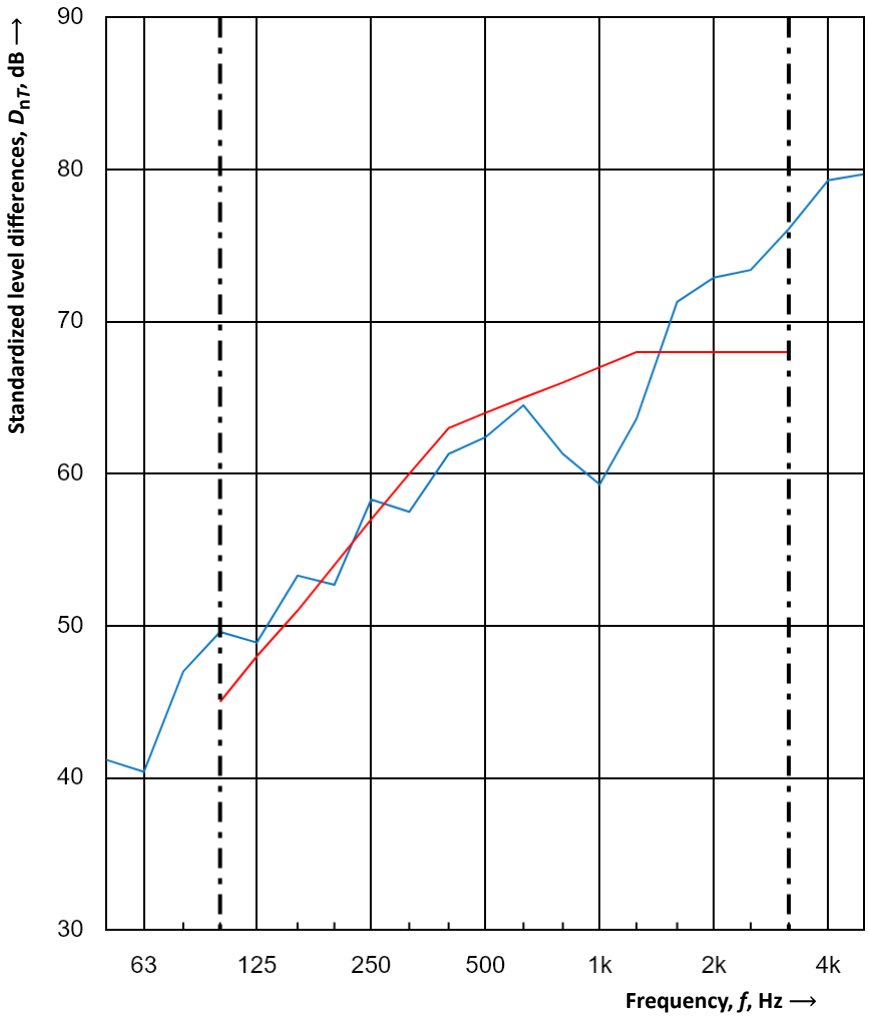
Deviations from test procedures and other relevant observations (if any):
None

Source room volume: 53 m^3
Receiving room volume: 53 m^3

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

Frequency f Hz	D_{nT} (one-third octave) dB
50	≥ 41.2 *
63	40.4
80	47.0
100	49.6
125	48.9
160	53.3
200	52.7
250	58.3
315	57.5
400	61.3
500	62.4
630	64.5
800	61.3
1000	59.3
1250	63.6
1600	71.3
2000	72.9
2500	≥ 73.4 *
3150	≥ 76.1 *
4000	≥ 79.3 *
5000	≥ 79.7 *

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



Rating according to ISO 717-1
$D_{nT,w}(C_{tr})$ = 64 (-4) dB $D_{nT,w}+C_{tr}$ = 60 dB Target: ≥ 45 dB **PASS**
Evaluation based on field measurement results obtained by an engineering method

ANC Task / Test No.: 191527/3 Name of test institute: Peninsular Acoustics
Person in charge of test: Joel Phillips

Standardized impact sound pressure levels according to ISO 140-7
Field measurements of impact sound insulation of floors

Site Name: 424 Stockport Road **Date of test:** 24/06/2026

Source room: Flat 6 Living Room /Kitchen **Receiving room:** Flat 2 Living Room /Kitchen **Partition type:** Floor

Construction type and description:

F1 Timber laminate, 28mm Cellecta Screed board with resilient layer, Kingspan MD50, 170mm Reinforced Concrete Composite Slab, suspended MF on acoustic hangers with plasterboard layer

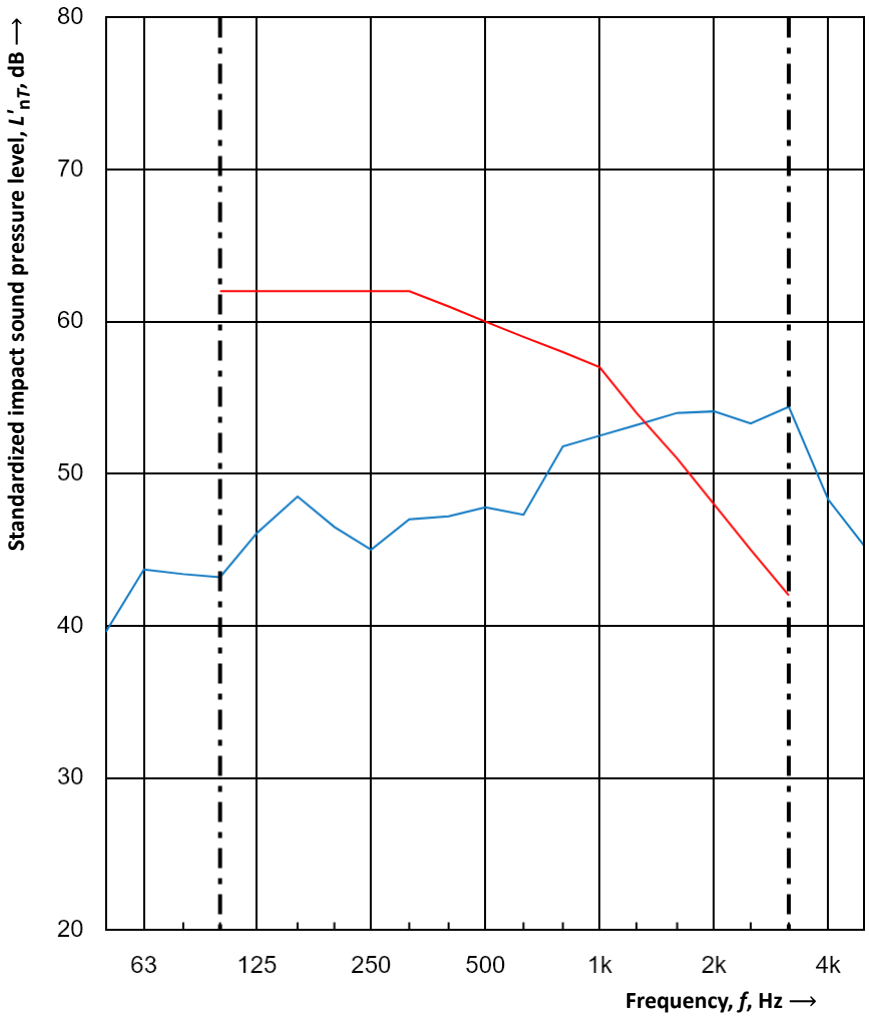
Deviations from test procedures and other relevant observations (if any):
None

Source room volume: 53 m^3
Receiving room volume: 53 m^3

Frequency range according to the shifted curve of reference values (ISO 717-2)

Frequency f Hz	L'_{nT} (one-third octave) dB
50	≤ 39.6 *
63	≤ 43.7 *
80	≤ 43.4 *
100	43.2
125	46.1
160	48.5
200	46.5
250	45.0
315	47.0
400	47.2
500	47.8
630	47.3
800	51.8
1000	52.5
1250	53.2
1600	54.0
2000	54.1
2500	53.3
3150	54.4
4000	48.3
5000	45.2

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



Rating according to ISO 717-2
$L'_{nT,w}$ = 60 dB Target: ≤ 62 dB **PASS**
Evaluation based on field measurement results obtained by an engineering method

ANC Task / Test No.: 191527/4 Name of test institute: Peninsular Acoustics
Person in charge of test: Joel Phillips

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

Site Name: 424 Stockport Road **Date of test:** 24/06/2026

Source room: Flat 6 Bedroom **Receiving room:** Flat 2 Bedroom **Partition type:** Floor

Construction type and description:

F1 Timber laminate, 28mm Cellecta Screed board with resilient layer, Kingspan MD50, 170mm Reinforced Concrete Composite Slab, suspended MF on acoustic hangers with plasterboard layer

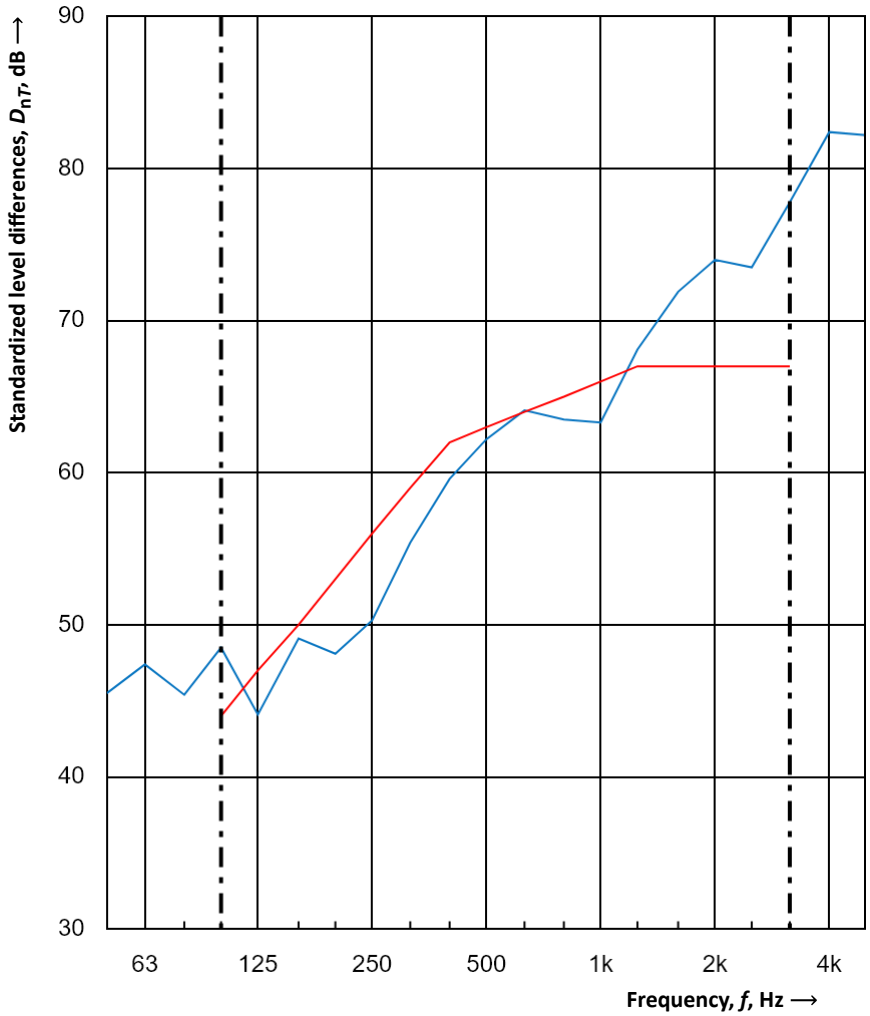
Deviations from test procedures and other relevant observations (if any):
None

Source room volume: 27 m^3
Receiving room volume: 27 m^3

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

Frequency f Hz	D_{nT} (one-third octave) dB
50	≥ 45.5 *
63	47.4
80	45.4
100	48.5
125	44.1
160	49.1
200	48.1
250	50.3
315	55.4
400	59.6
500	62.2
630	64.1
800	≥ 63.5 *
1000	≥ 63.3 *
1250	≥ 68.1 *
1600	71.9
2000	≥ 74.0 *
2500	≥ 73.5 *
3150	≥ 77.8 *
4000	≥ 82.4 *
5000	≥ 82.2 *

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



Rating according to ISO 717-1
$D_{nT,w}(C_{tr})$ = 63 (-6) dB $D_{nT,w}+C_{tr}$ = 57 dB Target: ≥ 45 dB **PASS**
Evaluation based on field measurement results obtained by an engineering method

ANC Task / Test No.: 191527/5 Name of test institute: Peninsular Acoustics
Person in charge of test: Joel Phillips

Standardized impact sound pressure levels according to ISO 140-7
Field measurements of impact sound insulation of floors

Site Name: 424 Stockport Road **Date of test:** 24/06/2026

Source room: Flat 6 Bedroom **Receiving room:** Flat 2 Bedroom **Partition type:** Floor

Construction type and description:

F1 Timber laminate, 28mm Cellecta Screed board with resilient layer, Kingspan MD50, 170mm Reinforced Concrete Composite Slab, suspended MF on acoustic hangers with plasterboard layer

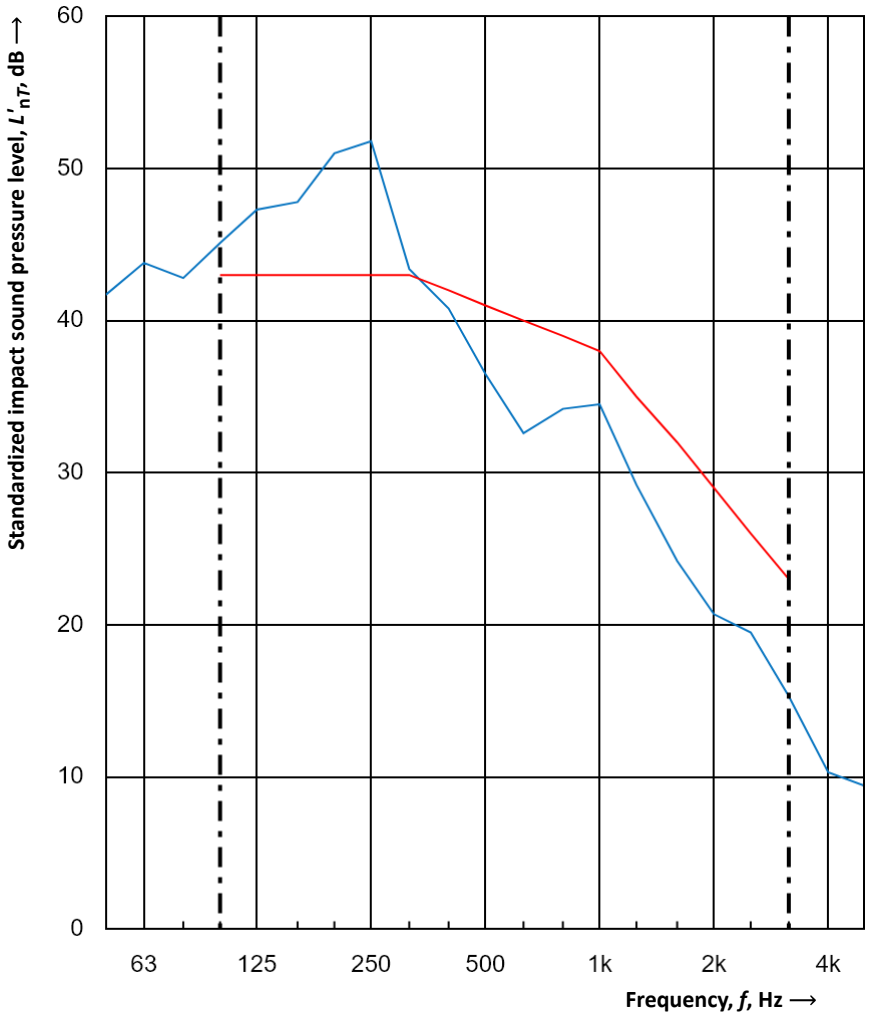
Deviations from test procedures and other relevant observations (if any):
None

Source room volume: 27 m^3
Receiving room volume: 27 m^3

Frequency range according to the shifted curve of reference values (ISO 717-2)

Frequency f Hz	L'_{nT} (one-third octave) dB
50	≤ 41.7 *
63	43.8
80	≤ 42.8 *
100	45.1
125	47.3
160	47.8
200	51.0
250	51.8
315	43.4
400	40.8
500	36.5
630	≤ 32.6 *
800	≤ 34.2 *
1000	≤ 34.5 *
1250	≤ 29.2 *
1600	≤ 24.2 *
2000	≤ 20.7 *
2500	≤ 19.5 *
3150	≤ 15.3 *
4000	≤ 10.3 *
5000	≤ 9.4 *

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



Rating according to ISO 717-2
$L'_{nT,w}$ = 41 dB Target: ≤ 62 dB **PASS**
Evaluation based on field measurement results obtained by an engineering method

ANC Task / Test No.: 191527/6 Name of test institute: Peninsular Acoustics
Person in charge of test: Joel Phillips

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

Site Name: 424 Stockport Road **Date of test:** 24/06/2026

Source room: Ground Floor Commercial (Pharmacy) **Receiving room:** Flat 3 Living Room /Kitchen **Partition type:** Floor

Construction type and description:

F1 Timber laminate, 28mm Cellecta Screed board with resilient layer, Kingspan MD50, 170mm Reinforced Concrete Composite Slab, suspended MF on acoustic hangers with plasterboard layer

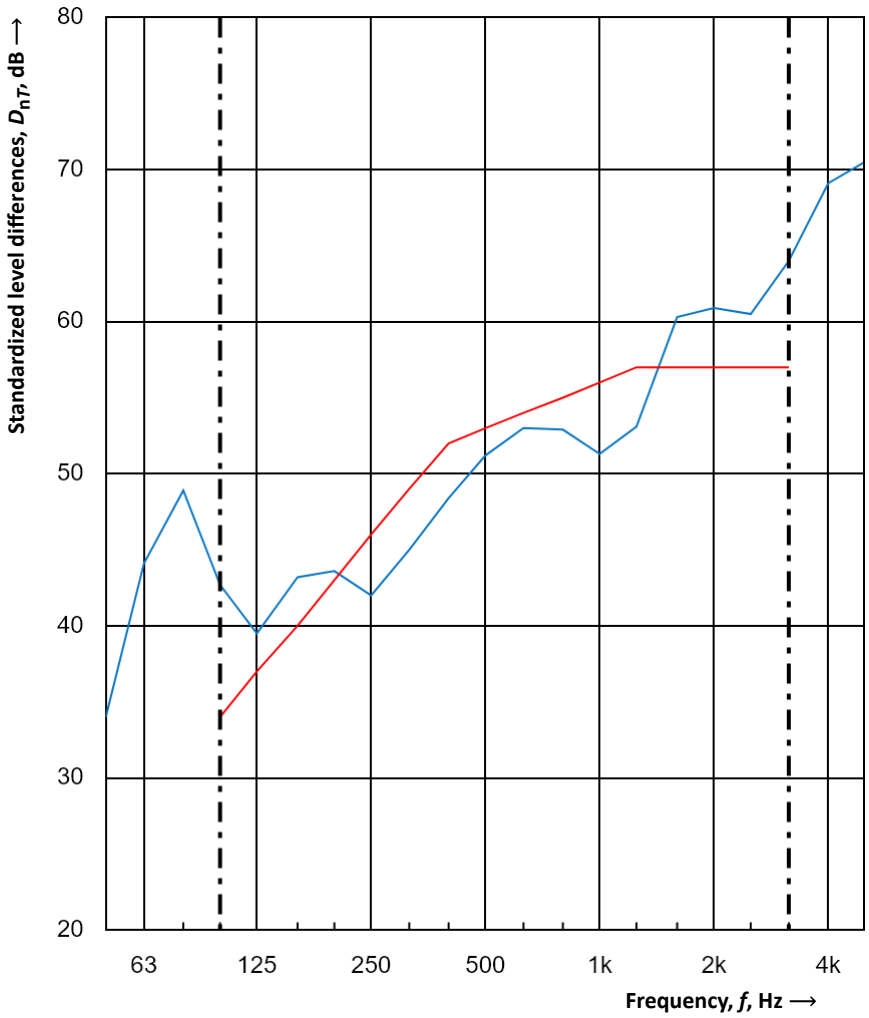
Deviations from test procedures and other relevant observations (if any):
Building materials within source room. Source room ceiling not plastered.

Source room volume: 85 m^3
Receiving room volume: 53 m^3

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

Frequency f Hz	D_{nT} (one-third octave) dB
50	≥ 34.0 *
63	≥ 44.1 *
80	48.9
100	42.7
125	39.5
160	43.2
200	43.6
250	42.0
315	45.0
400	48.4
500	51.2
630	53.0
800	52.9
1000	≥ 51.3 *
1250	≥ 53.1 *
1600	60.3
2000	60.9
2500	60.5
3150	64.0
4000	69.1
5000	≥ 70.5 *

* 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 (-3) dB $D_{nT,w}+C_{tr}$ = 50 dB Target: ≥ 45 dB **PASS**
Evaluation based on field measurement results obtained by an engineering method

ANC Task / Test No.: 191527/7 Name of test institute: Peninsular Acoustics
Person in charge of test: Joel Phillips