

**402 WILMSLOW ROAD, WITHINGTON,
MANCHESTER, M20 3BN****SOUND INSULATION TESTS REPORT**

architectural

environmental

occupational

industrial

noise control at source

project management

planning

legal services

expert witness

Report Prepared For:

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Association of Noise Consultants Registration Number: 105
Test Report Number: 105/190681

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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.theanc.co.uk
2. Navigate to the [ADvANCE](#) page which links to the ANC site available for use by BCOs.
3. Enter the following in the spaces provided:

Task Number: **190681**

Task Password: **H7U8UN**

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

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1.0 SUMMARY

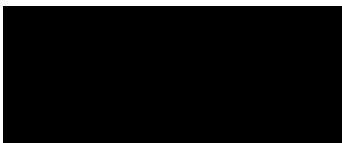
PDA Ltd was commissioned by SBW Properties to carry out sound insulation tests at 402 Wilmslow Road, Withington, Manchester, M20 3BN. This report is an ANC Registered Report with the unique registration number 105/190681.

Analysis of the test data has shown that the airborne sound insulation of the separating walls tested has met the performance standards given in the Building Regulations Approved Document E 2003 edition, and can be described as having 'passed'.

Analysis of the test data has shown that the airborne sound insulation of the separating floors tested has met the performance standards given in the Building Regulations Approved Document E 2003 edition, and can be described as having 'passed'.

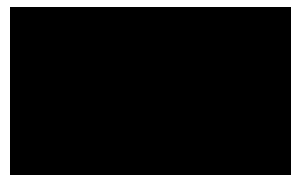
Analysis of the test data has shown that the impact sound insulation of the separating floors tested has met the performance standards given in the Building Regulations Approved Document E 2003 edition, and can be described as having 'passed'.

Report Prepared By:



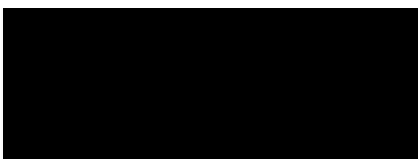
.....
Sam Iles
BEng(Hons) AMIOA
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Edmund Evenden
BSc Hons MIOA
Director

2.0 TEST DETAILS

2.1 Site Description

The tests were conducted at the conversion development at the property at 402 Wilmslow Road, Withington, Manchester, M20 3BN.

The development consists of the conversion project into 20no. apartments.

2.2 Test Details

The tests were conducted on the 4th December 2025. All measurements were made by Mr. Sam Iles of PDA Ltd, 3 Bridgewater Court, Barsbank Lane, Lymm, Cheshire, WA13 0ER.

PDA Ltd is accredited by the Association of Noise Consultants (ANC), accreditation number 105, to undertake sound insulation testing to demonstrate compliance with the Building Regulations, Approved Document E (2003 edition).

The equipment used during the tests is as listed in Table 5 at the end of this report. The sound level meter was calibrated before and after the tests as appropriate, during which time no significant calibration deviation was observed. The sound level meter, acoustic calibrator and microphone are all covered by current calibration certificates.

The testing methods for airborne and impact sound insulation were in full accordance with: the suggested methods presented in BS EN ISO 140-parts 4 & 7: 1998 "Field Measurements of Airborne Sound Insulation Between Rooms", "Field Measurements of Impact Sound Insulation of Floors". The results of the tests were analysed in accordance with BS EN ISO 717-parts 1 and 2: 1997, amended 2006.

In addition all the procedures in Annex B of Approved Document E, guidance to the Building Regulations, have been followed.

2.3 Basic Procedures

Airborne Sound Insulation

The field testing of structures for airborne sound insulation involves generating a controlled level of noise in one room (the source room) and measuring the resulting noise in the other room (the receiving room), separated from the source room by the element under test. The method follows test procedure 2 (airborne) as given within the ANC Practice Guidance version 2.1 (January 2025). One sound source is used and operated in two separate positions. Spatial and temporal averaging of the noise level in both rooms is carried out for each source position by manually sweeping the microphone through a predetermined circular path of travel in a plane not within 10° of any room surface plane. The sweeps are completed over a minimum 30-second period, with one separate measurement cycle being completed in both the source and receiving rooms.

A minimum 30-second manual sweeping of the microphone through a predetermined circular path of travel in a plane not within 10° of any room surface plane was taken in the receiver room for a background noise measurement when the loudspeaker in the source room was turned off.

Corrections are applied to the measured levels for the effects of background noise and acoustic absorption, the latter being characterised by reverberation time measurements. Background noise is measured in the receiving room using the sweep method over a minimum 30-second period. The corrected, measured source room and receiving room levels are used to derive the Standardised Level Difference and the data, in third octave

bands, are compared with reference values using defined matching criteria to determine the single figure Weighted Standardised Level Difference. From this data a Spectrum Adaptation term is calculated which gives an indication of the performance of the element when exposed to particular types of noise. This term is additive to the Weighted Standardised Level Difference and is quoted when referring to the element's sound insulation performance.

Impact Sound Insulation

Impact sound insulation measurements are primarily applicable to floor structures and are intended to give an indication of the ability of the floor to attenuate impact sources such as footsteps. For these tests the source is a standard tapping machine, which comprises a set of 'hammers' which are controlled to rise and fall at pre-determined rates to excite the floor structure. The method follows test procedure 5 (impact) as given within the ANC Practice Guidance version 2.1 (January 2025). The noise produced by the operation of the tapping machine is measured in the reception room. Spatial and temporal averaging of the noise level in the receiver rooms is carried out by the selection of two randomly distributed positions for each of the four tapping machine locations and averaging the noise level of each measurement over a minimum 6- second period. Corrections are again applied to account for acoustic conditions within the reception room and the resulting figures, in third octave band frequencies, are denoted the Standardised Impact Sound Pressure Levels. As with airborne sound insulation measurements, the results are compared with standard data to determine the single figure rating, the Weighted Standardised Impact Sound Pressure Level.

Reverberation Time Measurement

The reverberation time measurements were conducted in accordance with the engineering method as presented within ISO3382-2:2008. Measurements were carried out within the receiving rooms for each test by recording the decay from a continuous wide band pink noise generator. The equipment was set to measure T_{20} reverberation decay. Measurements were taken with one loudspeaker location and three randomly selected microphone locations. Measurements were repeated twice at each microphone location.

The source and receiving rooms were as detailed in the results summary in Tables 2-4 at the end of this report.

2.4 Wall and Floor Constructions

It is understood that the wall construction between the living rooms/kitchens tested is as follows:

- 2x 12.5mm Fireline Board. 1x 10mm Sterling board with 70mm acoustic stud and 50mm insulation.

It is understood that the wall construction between the bedrooms tested is as follows:

- 2x 12.5mm Fireline Board. 100mm blockwork and 50mm insulation.

It is understood that the floor construction between rooms tested is as follows:

- 90mm rib deck on steel, 20mm backing foam. 18mm chipboard, 6mm ply, acoustic LVT vinyl finish. 150mm insulation, 1 layer plasterboard.

3.0 TERMS OF REFERENCE

3.1 Building Regulations 2010 Approved Document E (2003) – Resistance to the Passage of Sound

The proposed development is deemed to fall into the category of dwelling-houses and flats formed by material change of use. The required airborne and impact sound insulation values are as per the tables detailed below.

Table 1 – Building Regulations ADE sound insulation requirements

Dwelling-houses and flats formed by material change of use	Airborne Sound Insulation $D_{nT,w} + C_{tr}$ dB (minimum values)	Impact Sound Insulation $L'_{nT,w}$ dB (maximum values)
Walls	≥43	-
Floors	≥43	≤64

4.0 RESULTS

4.1 Background Noise Levels

A measurement of typical noise levels was made within the receiver rooms during the tests. The background noise levels were measured between 32 and 38 dB $L_{Aeq,T}$ and comprised of occasional construction noise on site.

It should be noted that where low background noise levels exist, these are not taken into account by Approved Document E. Consequently, even if a wall or floor is performing satisfactorily it may still be the case that sound can be heard passing between the adjacent spaces, this being a result of a lack of masking provided by the background noise. Please see Section 2.3 for a brief description of the test procedure for background noise measurements.

4.2 Airborne Sound Insulation – Separating Walls and Floors

The airborne noise measurements obtained on site have been processed to produce the standardised level difference (D_{nT}) between the rooms. The D_{nT} is detailed with the weighted standardised level difference $D_{nT,w}$ and the C_{tr} values in the test certificate at the rear of this report. The $D_{nT,w} + C_{tr}$ allows the sound insulation performance of the elements tested to be compared with the ADE requirements detailed in Section 3 above. The obtained $D_{nT,w} + C_{tr}$ for the separating walls and floors are presented in summary Tables 2 and 3 at the end of this report.

4.3 Impact Sound Insulation – Separating Floors

The impact noise measurement obtained on site has been processed to produce the standardised impact sound pressure level (L'_{nT}) between the rooms. The L'_{nT} is detailed with the weighted standardised impact sound pressure $L'_{nT,w}$ in the test certificate at the rear of this report. The $L'_{nT,w}$ allows the impact sound insulation performance of the elements tested to be compared with the ADE requirements detailed in Section 3 above. The obtained $L'_{nT,w}$ values for the separating floors are presented in summary Table 4 at the end of this report.

5.0 DISCUSSION OF RESULTS

5.1 Airborne Sound Insulation – Separating Walls

The obtained results from the sound insulation tests show that the minimum sound insulation values as stated in ADE 2003 have been met for all separating walls. As such these elements may be regarded as having 'passed' the tests.

5.2 Airborne Sound Insulation – Separating Floors

The obtained results from the sound insulation tests show that the minimum sound insulation values as stated in ADE 2003 have been met for all separating floors. As such these elements may be regarded as having 'passed' the tests.

5.3 Impact Sound Insulation – Separating Floors

The obtained results for the floors tested did not exceed the maximum value of impact sound insulation required by ADE 2003. As such the floors may be regarded as having 'passed' the tests.

Results Summary Tables

Table 2 – Airborne Wall Sound Insulation Test Results:

ANC Test Reference	Source Room		Receiver Room		Measured $D_{nT,w} + C_{tr}$ dB	Building Regulations ADE Required Sound Insulation Performance, $D_{nT,w} + C_{tr}$ dB	'Pass' or 'Fail'
	Description	Volume, m^3	Description	Volume, m^3			
105/190681/01	Flat 09 Living Room/Kitchen	72	Flat 08 Living Room/Kitchen	72	46	≥43	Pass
105/190681/02	Flat 09 Bedroom 2	31	Flat 10 Bedroom1	30	64	≥43	Pass
105/190681/03	Flat 13 Living Room/Kitchen	72	Flat 12 Living Room/Kitchen	72	46	≥43	Pass
105/190681/04	Flat 13 Bedroom 2	31	Flat 14 Bedroom 1	30	65	≥43	Pass

Table 3 – Airborne Floor Sound Insulation Test Results:

ANC Test Reference	Source Room		Receiver Room		Measured $D_{nT,w} + C_{tr}$ dB	Building Regulations ADE Required Sound Insulation Performance, $D_{nT,w} + C_{tr}$ dB	'Pass' or 'Fail'
	Description	Volume, m^3	Description	Volume, m^3			
105/190681/05	Flat 09 Living Room/Kitchen	72	Flat 05 Living Room/Kitchen	72	53	≥43	Pass
105/190681/06	Flat 09 Bedroom 2	31	Flat 05 Bedroom 2	31	54	≥43	Pass
105/190681/07	Flat 13 Living Room/Kitchen	72	Flat 09 Living Room/Kitchen	72	54	≥43	Pass
105/190681/08	Flat 13 Bedroom 2	31	Flat 09 Bedroom 2	31	55	≥43	Pass

Table 4 – Impact Floor Sound Insulation Test Results:

ANC Test Reference	Source Room		Receiver Room		Measured $L'_{nT,w}$ dB	Building Regulations ADE Required Sound Insulation Performance, $L'_{nT,w}$ dB	'Pass' or 'Fail'
	Description	Volume, m^3	Description	Volume, m^3			
105/190681/09	Flat 09 Living Room/Kitchen	72	Flat 05 Living Room/Kitchen	72	46	≤64	Pass
105/190681/10	Flat 09 Bedroom 2	31	Flat 05 Bedroom 2	31	48	≤64	Pass
105/190681/11	Flat 13 Living Room/Kitchen	72	Flat 09 Living Room/Kitchen	72	49	≤64	Pass
105/190681/12	Flat 13 Bedroom 2	31	Flat 09 Bedroom 2	31	51	≤64	Pass

Equipment List

Table 5 – Equipment

Manufacturer	Type	Model	Serial Number	Calibration Date	Calibration Certificate Number	Date of Expiration of Calibration
Mackie	Sound Source	SRM350	JG0252	-	-	-
Nokia	Pink Noise Generator	110	356250250782936	-	-	-
JBL	Sound Source	EON 10	P0349-22298	-	-	-
Nokia	Pink Noise Generator	110	356250251035235	-	-	-
Sources Line	Tapping Machine	EOS	NG E05 302	03/05/2024	UKAS24/05348	03/05/2026
NTi	Sound Level Meter	XL2-TA	A2A-25250-E1	17/02/2025	07104/2	17/02/2027
NTi	Pre-amplifier	MA220	9366	17/02/2025	07104/2	17/02/2027
NTi	Microphone	MC230A	A19086	17/02/2025	07104/2	17/02/2027
NTi	Calibrator	CAL200	17650	12/02/2025	07104/1	12/02/2026

APPENDIX

PDA LTD. TEST CERTIFICATES

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



Client: SBW Properties
Address: 402 Wilmslow Road, Withington, Manchester M20 3BN

Date of Test: 04 December 2025

Description of tested construction, test arrangement and direction of measurement :

Source Room: Flat 09 Living Room/Kitchen

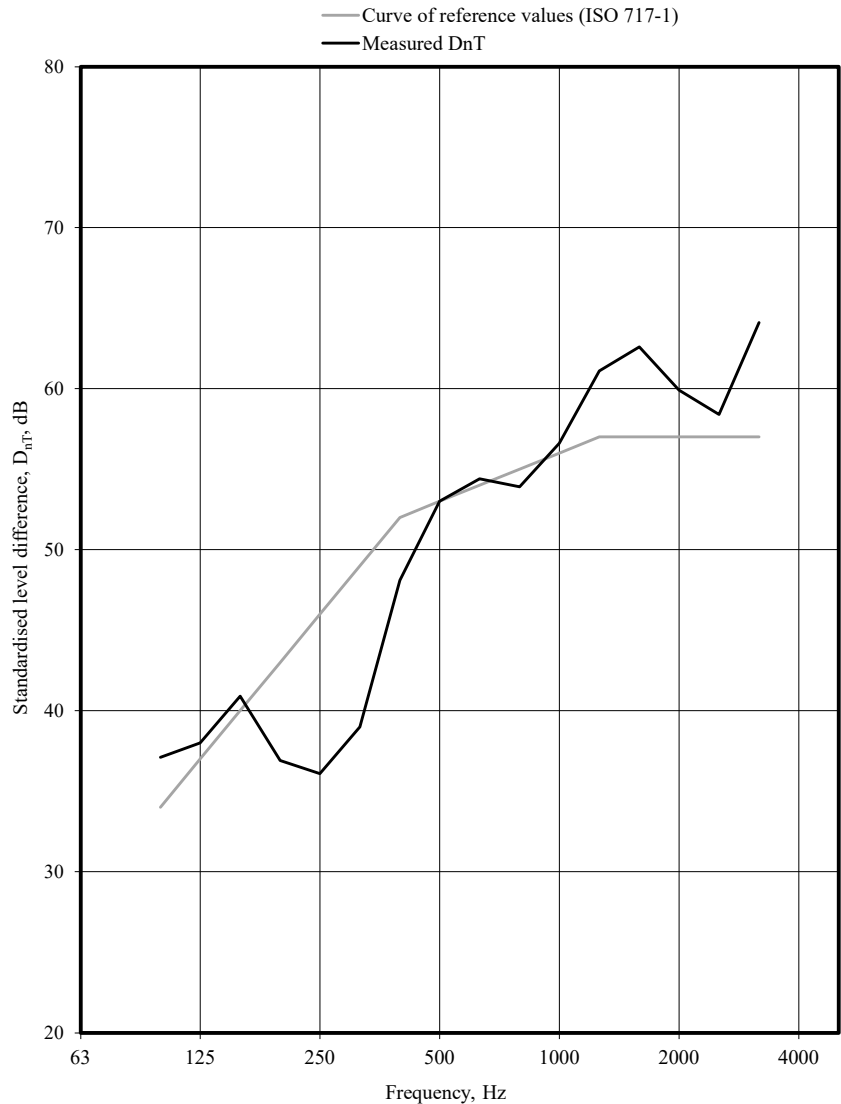
Receiver Room: Flat 08 Living Room/Kitchen

Wall Construction (Notional)

2x 12.5mm Fireline Board. 1x 10mm Sterling board with 70mm acoustic stud and 50mm insulation

Source Room Volume : 72 m³
Receiver Room Volume : 72 m³

Frequency Hz	D _{nT} (one-third octave) dB
50	
63	
80	
100	37.1
125	38.0
160	40.9
200	36.9
250	36.1
315	39.0
400	48.1
500	53.0
630	54.4
800	53.9
1000	56.6
1250	≥ 61.1
1600	≥ 62.6
2000	59.9
2500	58.4
3150	≥ 64.1
4000	
5000	



Rating According to ISO 717-1

D_{nT,w} (C; Ctr) = **53** -3 -7 dB

Evaluation based on field measurement results obtained by an engineering method

No. of Test Report: 105/190681/01

Name of Test Institute : PDA Ltd, 3 Bridgewater Court
Barsbank Lane, Lymm
Cheshire, WA13 0ER

Date: 05 December 2025

Notes:

≥ - measurement limited due to background

Signature :

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



Client: SBW Properties **Date of Test:** 04 December 2025
Address: 402 Wilmslow Road, Withington, Manchester M20 3BN

Description of tested construction, test arrangement and direction of measurement :

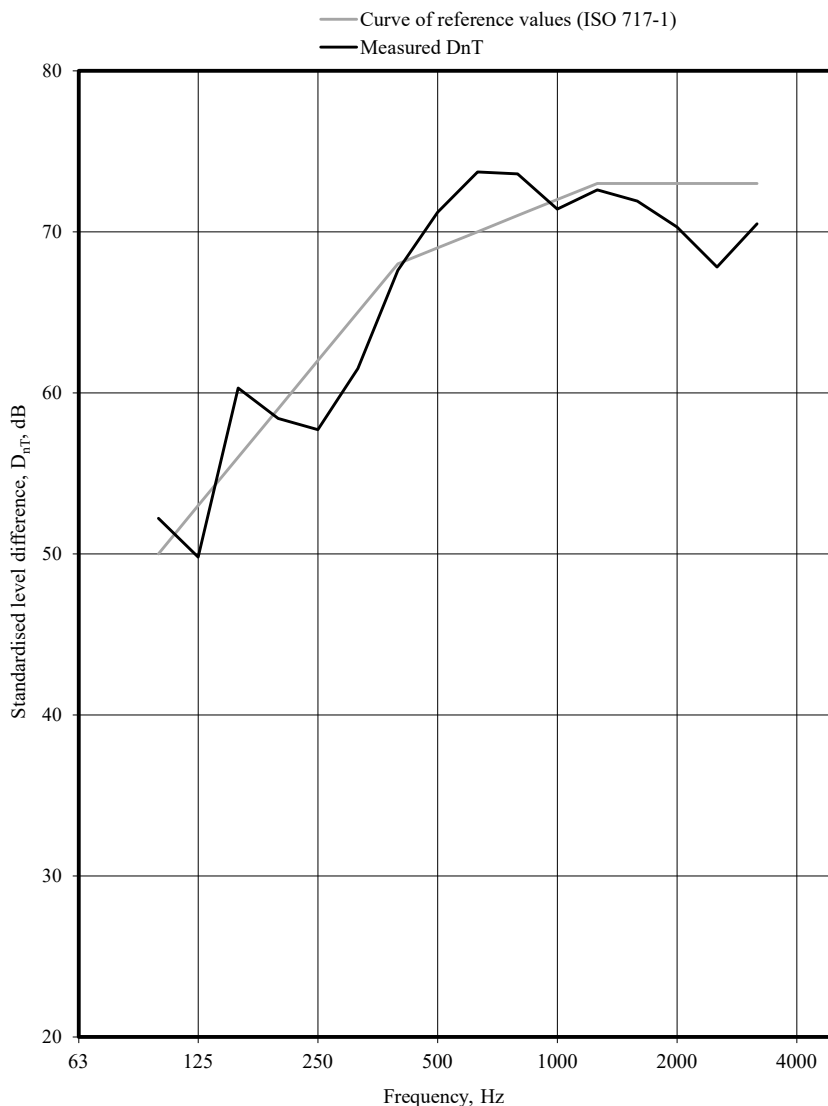
Source Room: Flat 09 Bedroom 2
Receiver Room: Flat 10 Bedroom1

Wall Construction (Notional)

2x 12.5mm Fireline Board. 100mm blockwork and 50mm insulation

Source Room Volume : 31 m³
Receiver Room Volume : 30 m³

Frequency Hz	D _{nT} (one-third octave) dB
50	
63	
80	
100	52.2
125	49.8
160	60.3
200	58.4
250	57.7
315	61.5
400	67.6
500	71.2
630	≥ 73.7
800	≥ 73.6
1000	≥ 71.4
1250	≥ 72.6
1600	≥ 71.9
2000	≥ 70.3
2500	≥ 67.8
3150	≥ 70.5
4000	
5000	



Rating According to ISO 717-1

D_{nT,w} (C; Ctr) ≥ **69** -1 -5 dB

Evaluation based on field measurement results obtained by an engineering method

No. of Test Report: 105/190681/02 **Name of Test Institute :** PDA Ltd, 3 Bridgewater Court
Barsbank Lane, Lymm
Cheshire, WA13 0ER

Date: 05 December 2025

Notes:

≥ - measurement limited due to background

Signature :

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



Client: SBW Properties
Address: 402 Wilmslow Road, Withington, Manchester M20 3BN
Date of Test: 04 December 2025

Description of tested construction, test arrangement and direction of measurement :

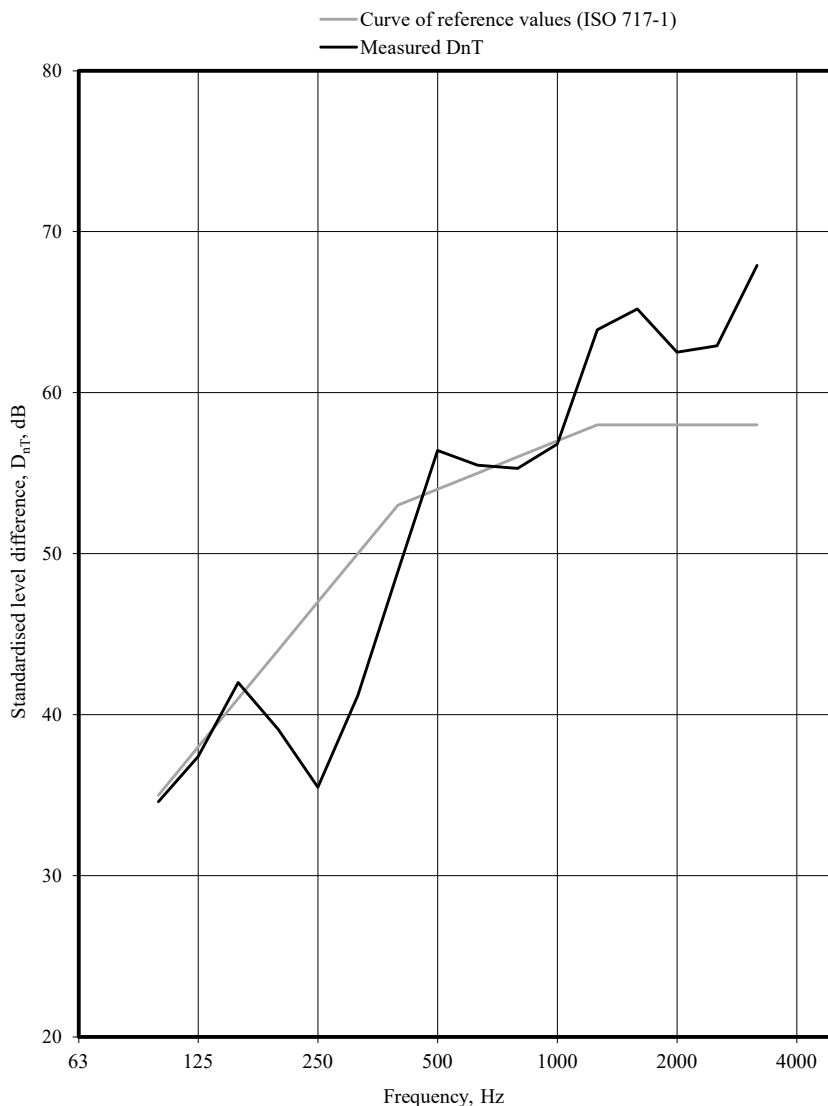
Source Room: Flat 13 Living Room/Kitchen
Receiver Room: Flat 12 Living Room/Kitchen

Wall Construction (Notional)

2x 12.5mm Fireline Board. 1x 10mm Sterling board with 70mm acoustic stud and 50mm insulation

Source Room Volume : 72 m³
Receiver Room Volume : 72 m³

Frequency Hz	D _{nT} (one-third octave) dB
50	
63	
80	
100	34.6
125	37.4
160	42.0
200	39.1
250	35.5
315	41.2
400	48.9
500	56.4
630	55.5
800	55.3
1000	56.8
1250	≥ 63.9
1600	≥ 65.2
2000	≥ 62.5
2500	≥ 62.9
3150	≥ 67.9
4000	
5000	



Rating According to ISO 717-1

D_{nT,w} (C; Ctr) = **54** -3 -8 **dB**

Evaluation based on field measurement results obtained by an engineering method

No. of Test Report: 105/190681/03
Name of Test Institute : PDA Ltd, 3 Bridgewater Court
Barsbank Lane, Lymm
Cheshire, WA13 0ER

Date: 05 December 2025

Notes:

≥ - measurement limited due to background

Signature :

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



Client: SBW Properties
Address: 402 Wilmslow Road, Withington, Manchester M20 3BN

Date of Test: 04 December 2025

Description of tested construction, test arrangement and direction of measurement :

Source Room: Flat 13 Bedroom 2

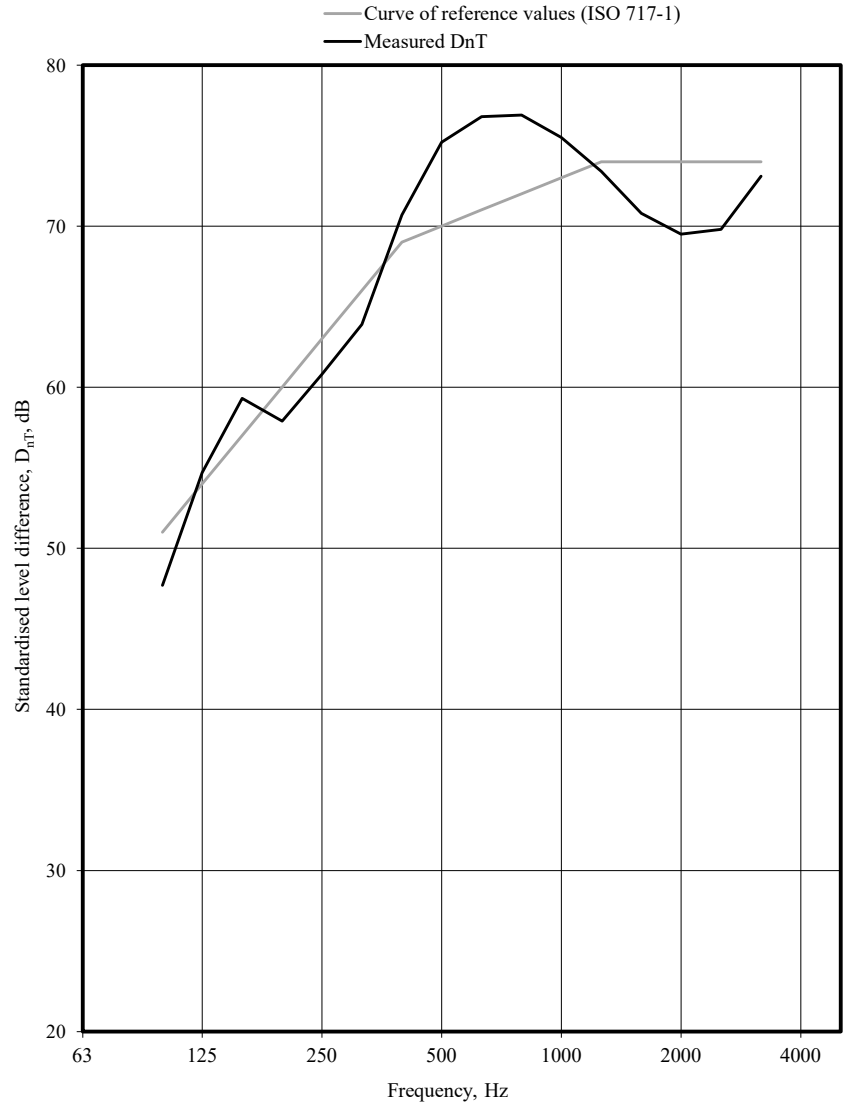
Receiver Room: Flat 14 Bedroom 1

Wall Construction (Notional)

2x 12.5mm Fireline Board. 100mm blockwork and 50mm insulation

Source Room Volume : 31 m³
Receiver Room Volume : 30 m³

Frequency Hz	D _{nT} (one-third octave) dB
50	
63	
80	
100	47.7
125	≥ 54.7
160	59.3
200	57.9
250	60.8
315	63.9
400	70.7
500	≥ 75.2
630	≥ 76.8
800	≥ 76.9
1000	≥ 75.5
1250	≥ 73.4
1600	≥ 70.8
2000	≥ 69.5
2500	≥ 69.8
3150	≥ 73.1
4000	
5000	



Rating According to ISO 717-1

D_{nT,w} (C; Ctr) ≥ **70** -1 -5 dB

Evaluation based on field measurement results obtained by an engineering method

No. of Test Report: 105/190681/04

Name of Test Institute : PDA Ltd, 3 Bridgewater Court
Barsbank Lane, Lymm
Cheshire, WA13 0ER

Date: 05 December 2025

Notes:

≥ - measurement limited due to background

Signature :

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



Client: SBW Properties
Address: 402 Wilmslow Road, Withington, Manchester M20 3BN

Date of Test: 04 December 2025

Description of tested construction, test arrangement and direction of measurement :

Source Room: Flat 09 Living Room/Kitchen

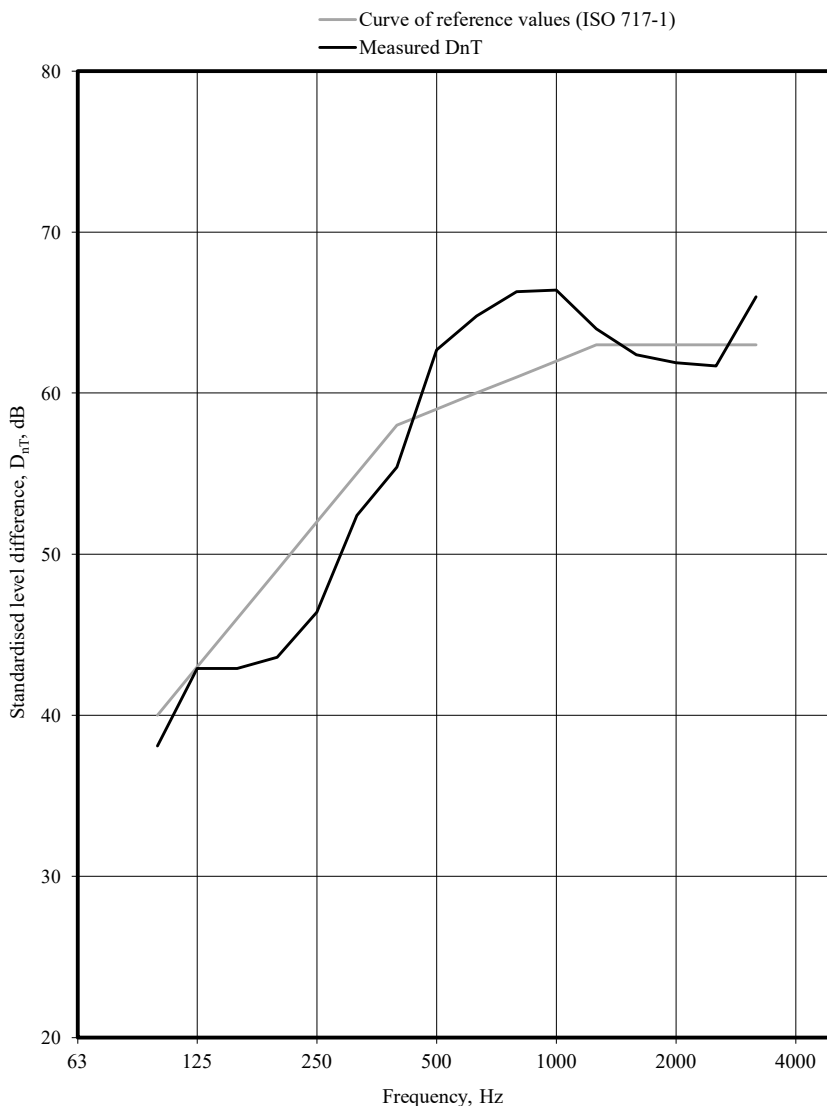
Receiver Room: Flat 05 Living Room/Kitchen

Floor Construction (Notional)

90mm rib deck on steel, 20mm backing foam. 18mm chipboard, 6mm ply, acoustic LVT vinyl finish. 150mm insulation, 1 layer plasterboard

Source Room Volume : 72 m³
Receiver Room Volume : 72 m³

Frequency Hz	D _{nT} (one-third octave) dB
50	
63	
80	
100	38.1
125	42.9
160	42.9
200	43.6
250	46.4
315	52.4
400	55.4
500	62.7
630	≥ 64.8
800	≥ 66.3
1000	≥ 66.4
1250	≥ 64.0
1600	≥ 62.4
2000	≥ 61.9
2500	≥ 61.7
3150	≥ 66.0
4000	
5000	



Rating According to ISO 717-1

D_{nT,w} (C; Ctr) ≥ **59** -2 -6 dB

Evaluation based on field measurement results obtained by an engineering method

No. of Test Report: 105/190681/05

Name of Test Institute : PDA Ltd, 3 Bridgewater Court
Barsbank Lane, Lymm
Cheshire, WA13 0ER

Date: 05 December 2025

Notes:

≥ - measurement limited due to background

Signature :



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



Client: SBW Properties

Date of Test: 04 December 2025

Address: 402 Wilmslow Road, Withington, Manchester M20 3BN

Description of tested construction, test arrangement and direction of measurement :

Source Room: Flat 09 Bedroom 2

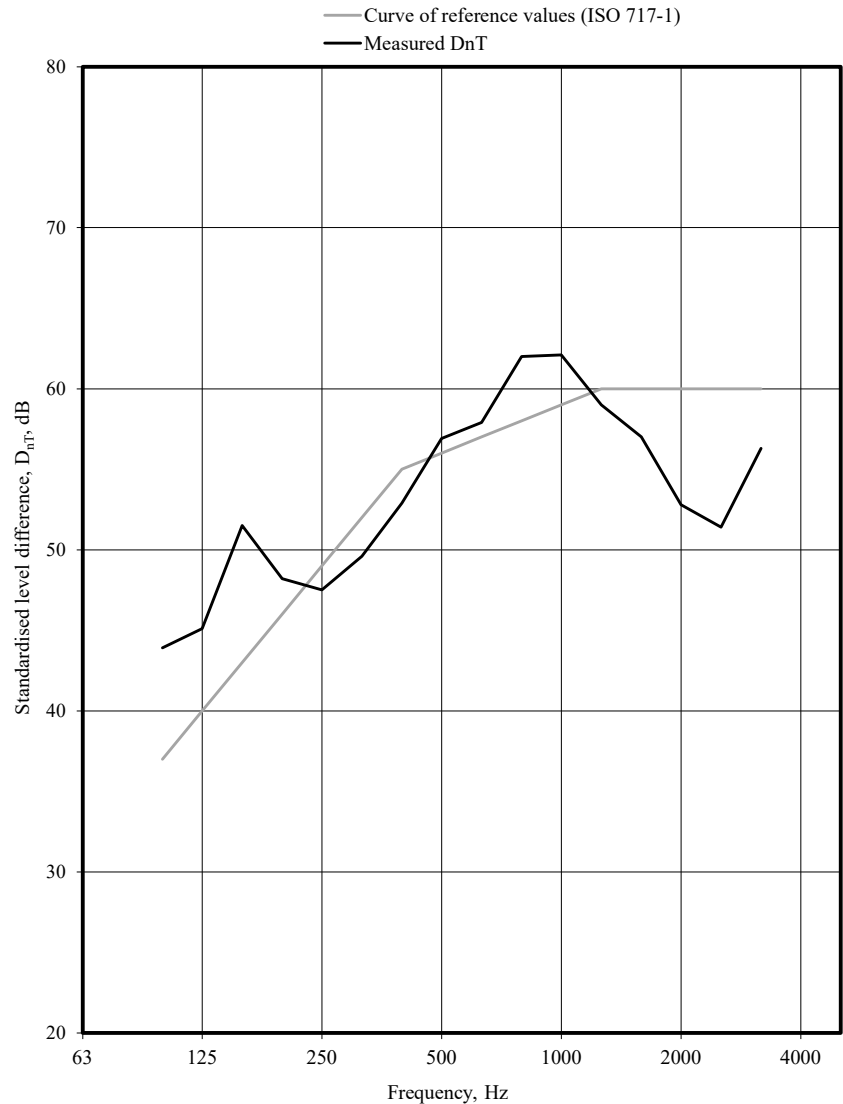
Receiver Room: Flat 05 Bedroom 2

Floor Construction (Notional)

90mm rib deck on steel, 20mm backing foam. 18mm chipboard, 6mm ply, acoustic LVT vinyl finish. 150mm insulation, 1 layer plasterboard

Source Room Volume : 31 m³
Receiver Room Volume : 31 m³

Frequency Hz	D _{nT} (one-third octave) dB
50	
63	
80	
100	43.9
125	45.1
160	51.5
200	48.2
250	47.5
315	49.6
400	52.9
500	56.9
630	57.9
800	62.0
1000	62.1
1250	59.0
1600	57.0
2000	52.8
2500	51.4
3150	56.3
4000	
5000	



Rating According to ISO 717-1

D_{nT,w} (C; Ctr) = **56** -1 -2 **dB**

Evaluation based on field measurement results obtained by an engineering method

No. of Test Report: 105/190681/06

Name of Test Institute : PDA Ltd, 3 Bridgewater Court
Barsbank Lane, Lymm
Cheshire, WA13 0ER

Date: 05 December 2025

Notes:

≥ - measurement limited due to background

Signature :

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



Client: SBW Properties **Date of Test:** 04 December 2025
Address: 402 Wilmslow Road, Withington, Manchester M20 3BN

Description of tested construction, test arrangement and direction of measurement :

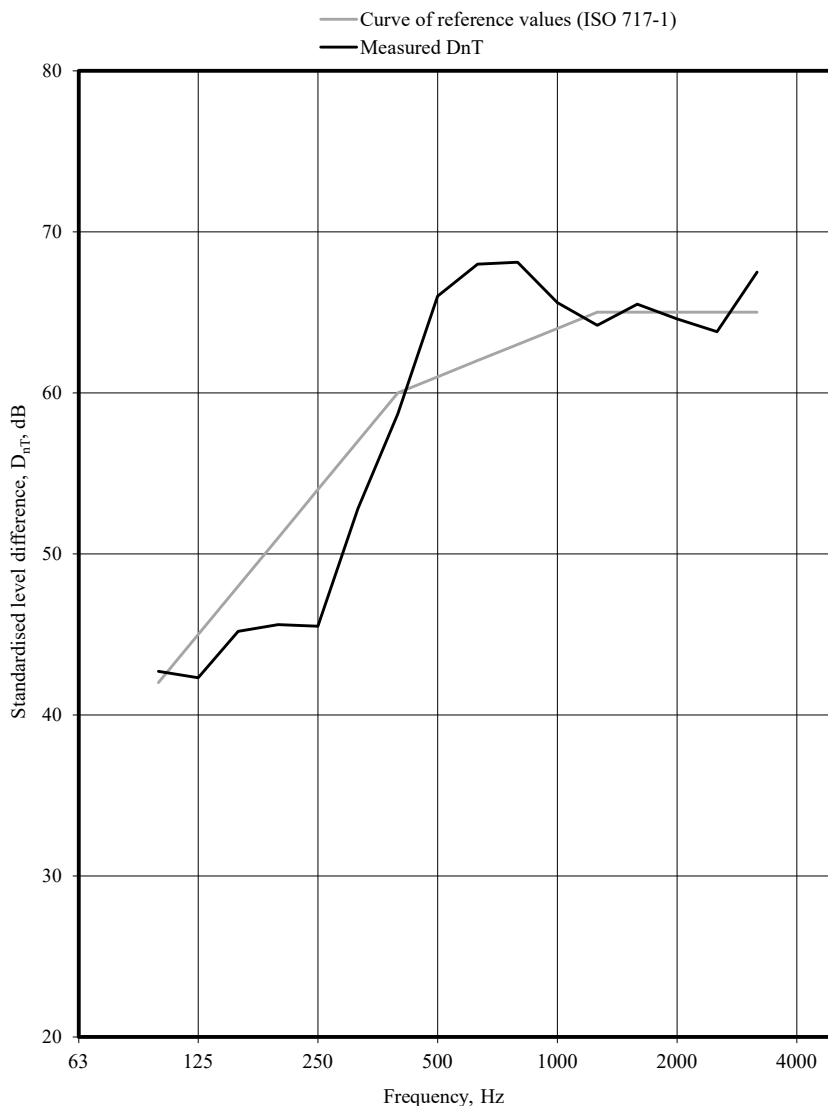
Source Room: Flat 13 Living Room/Kitchen
Receiver Room: Flat 09 Living Room/Kitchen

Floor Construction (Notional)

90mm rib deck on steel, 20mm backing foam. 18mm chipboard, 6mm ply, acoustic LVT vinyl finish. 150mm insulation, 1 layer plasterboard

Source Room Volume : 72 m³
Receiver Room Volume : 72 m³

Frequency Hz	D _{nT} (one-third octave) dB
50	
63	
80	
100	42.7
125	42.3
160	45.2
200	45.6
250	45.5
315	52.8
400	58.7
500	66.0
630	68.0
800	68.1
1000	65.6
1250	64.2
1600	≥ 65.5
2000	≥ 64.6
2500	≥ 63.8
3150	≥ 67.5
4000	
5000	



Rating According to ISO 717-1

D_{nT,w} (C; Ctr) ≥ **61** -2 -7 **dB**

Evaluation based on field measurement results obtained by an engineering method

No. of Test Report: 105/190681/07 **Name of Test Institute :** PDA Ltd, 3 Bridgewater Court
Barsbank Lane, Lymm
Cheshire, WA13 0ER

Date: 05 December 2025

Notes:

≥ - measurement limited due to background

Signature :

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



Client: SBW Properties **Date of Test:** 04 December 2025
Address: 402 Wilmslow Road, Withington, Manchester M20 3BN

Description of tested construction, test arrangement and direction of measurement :

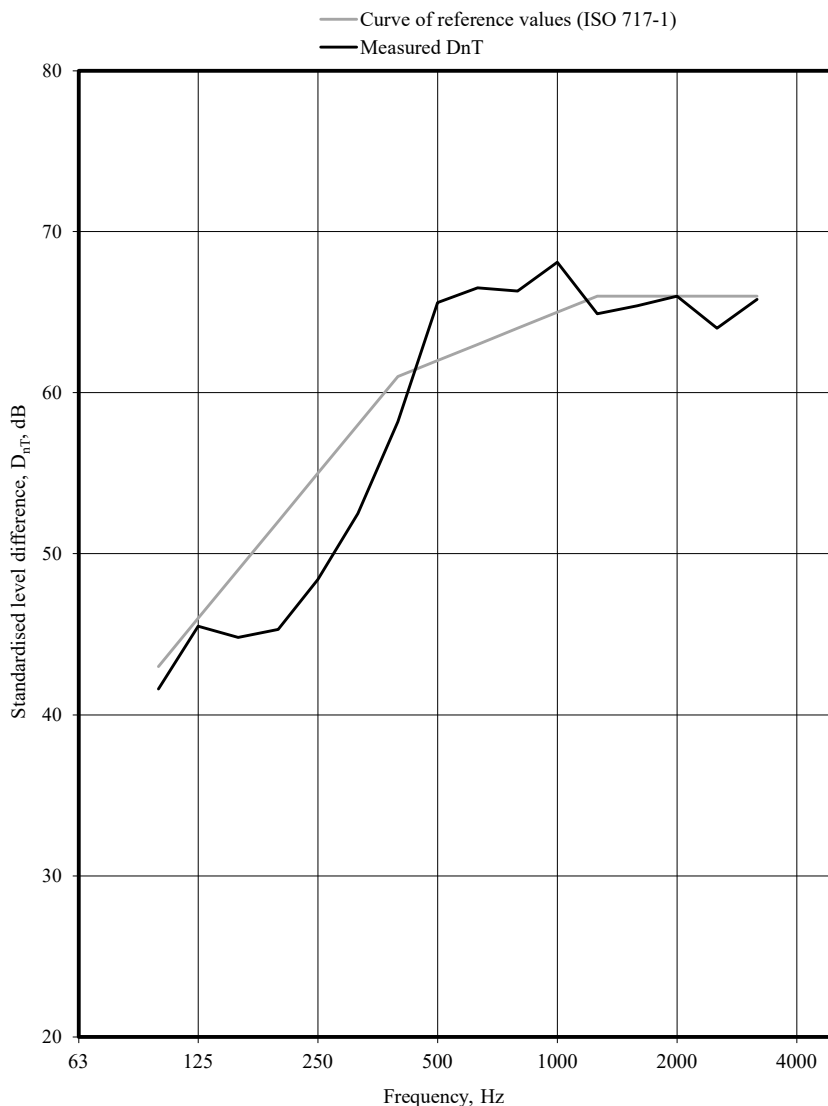
Source Room: Flat 13 Bedroom 2
Receiver Room: Flat 09 Bedroom 2

Floor Construction (Notional)

90mm rib deck on steel, 20mm backing foam. 18mm chipboard, 6mm ply, acoustic LVT vinyl finish. 150mm insulation, 1 layer plasterboard

Source Room Volume : 31 m³
Receiver Room Volume : 31 m³

Frequency Hz	D _{nT} (one-third octave) dB
50	
63	
80	
100	41.6
125	45.5
160	44.8
200	45.3
250	48.4
315	52.5
400	58.2
500	65.6
630	66.5
800	66.3
1000	68.1
1250	64.9
1600	≥ 65.4
2000	≥ 66.0
2500	≥ 64.0
3150	≥ 65.8
4000	
5000	



Rating According to ISO 717-1

D_{nT,w} (C; Ctr) ≥ **62** -3 -7 **dB**

Evaluation based on field measurement results obtained by an engineering method

No. of Test Report: 105/190681/08 **Name of Test Institute :** PDA Ltd, 3 Bridgewater Court
Barsbank Lane, Lymm
Cheshire, WA13 0ER

Date: 05 December 2025

Notes:

≥ - measurement limited due to background

Signature :

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

Client: SBW Properties
Address: 402 Wilmslow Road, Withington, Manchester M20 3BN

Date of Test: 04 December 2025



Description of tested construction, test arrangement and direction of measurement :

Source Room: Flat 09 Living Room/Kitchen

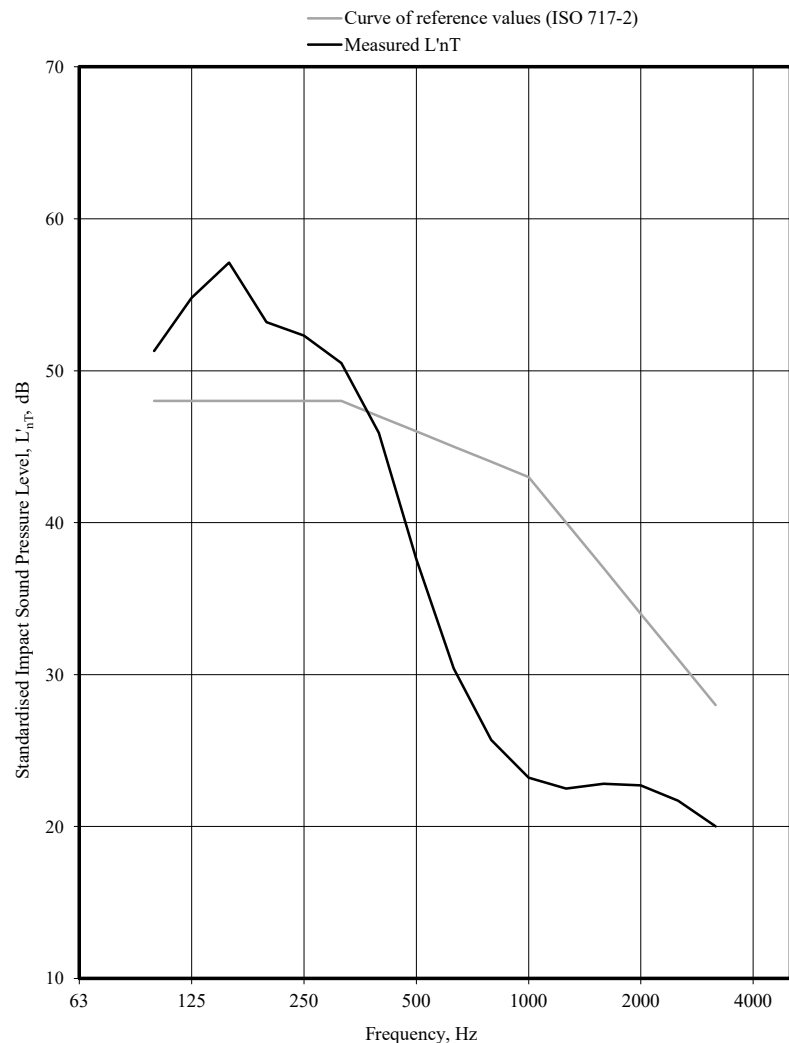
Receiver Room: Flat 05 Living Room/Kitchen

Floor Construction (Notional)

90mm rib deck on steel, 20mm backing foam. 18mm chipboard, 6mm ply, acoustic LVT vinyl finish. 150mm insulation, 1 layer plasterboard

Source Room Volume : 72 m³
Receiver Room Volume : 72 m³

Frequency Hz	L' _{nT} (one-third octave) dB
50	
63	
80	
100	51.3
125	54.8
160	57.1
200	53.2
250	52.3
315	50.5
400	45.9
500	37.6
630	≤ 30.4
800	≤ 25.7
1000	≤ 23.2
1250	≤ 22.5
1600	≤ 22.8
2000	≤ 22.7
2500	≤ 21.7
3150	≤ 20.0
4000	
5000	



Rating According to ISO 717-2

L'_{nT,w} = **46** dB

Evaluation based on field measurement results obtained by an engineering method

No. of Test Report: 105/190681/09

Name of Test Institute : PDA Ltd, 3 Bridgewater Court
Barsbank Lane, Lymm
Cheshire, WA13 0ER

Date: 05 December 2025

Notes:

≤ - measurement limited due to background

Signature :



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

Client: SBW Properties
Address: 402 Wilmslow Road, Withington, Manchester M20 3BN

Date of Test: 04 December 2025



Description of tested construction, test arrangement and direction of measurement :

Source Room: Flat 09 Bedroom 2

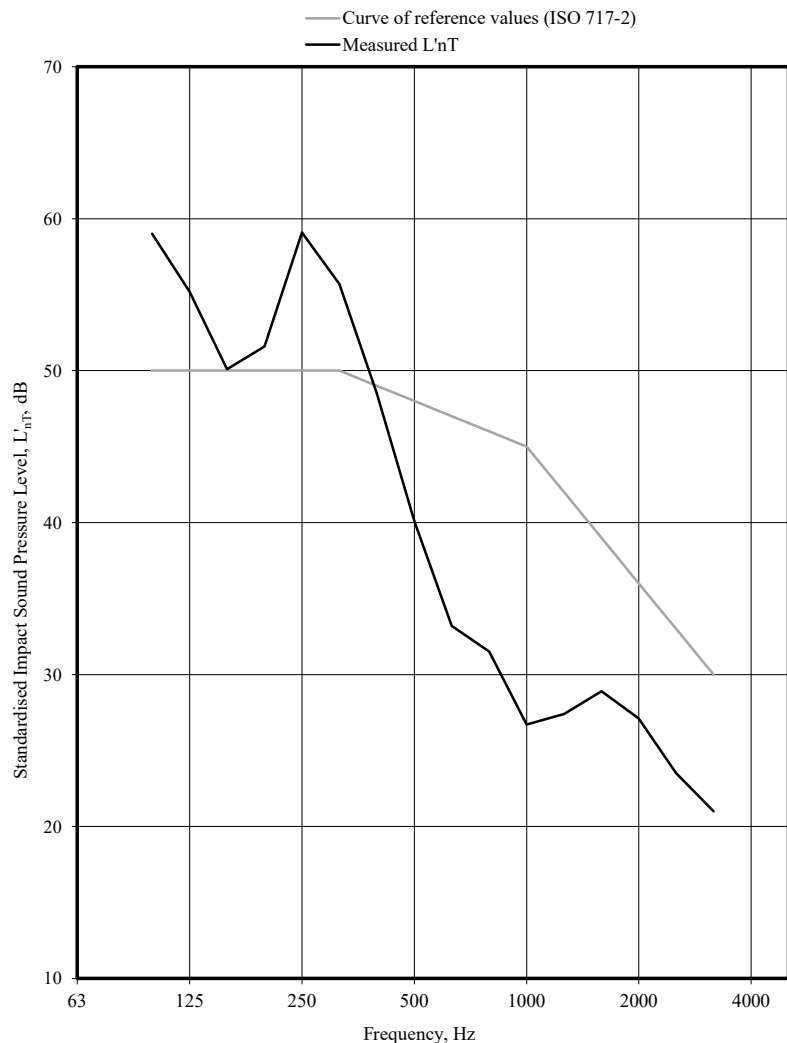
Receiver Room: Flat 05 Bedroom 2

Floor Construction (Notional)

90mm rib deck on steel, 20mm backing foam. 18mm chipboard, 6mm ply, acoustic LVT vinyl finish. 150mm insulation, 1 layer plasterboard

Source Room Volume : 31 m³
Receiver Room Volume : 31 m³

Frequency Hz	L' _{nT} (one-third octave) dB
50	
63	
80	
100	59.0
125	55.2
160	50.1
200	51.6
250	59.1
315	55.7
400	48.5
500	40.1
630	33.2
800	≤ 31.5
1000	≤ 26.7
1250	≤ 27.4
1600	≤ 28.9
2000	≤ 27.1
2500	≤ 23.5
3150	≤ 21.0
4000	
5000	



Rating According to ISO 717-2

L'_{nT,w} = **48** dB

Evaluation based on field measurement results obtained by an engineering method

No. of Test Report: 105/190681/10

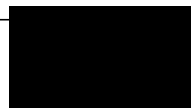
Name of Test Institute : PDA Ltd, 3 Bridgewater Court
Barsbank Lane, Lymm
Cheshire, WA13 0ER

Date: 05 December 2025

Notes:

≤ - measurement limited due to background

Signature :



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

Client: SBW Properties
Address: 402 Wilmslow Road, Withington, Manchester M20 3BN

Date of Test: 04 December 2025



Description of tested construction, test arrangement and direction of measurement :

Source Room: Flat 13 Living Room/Kitchen

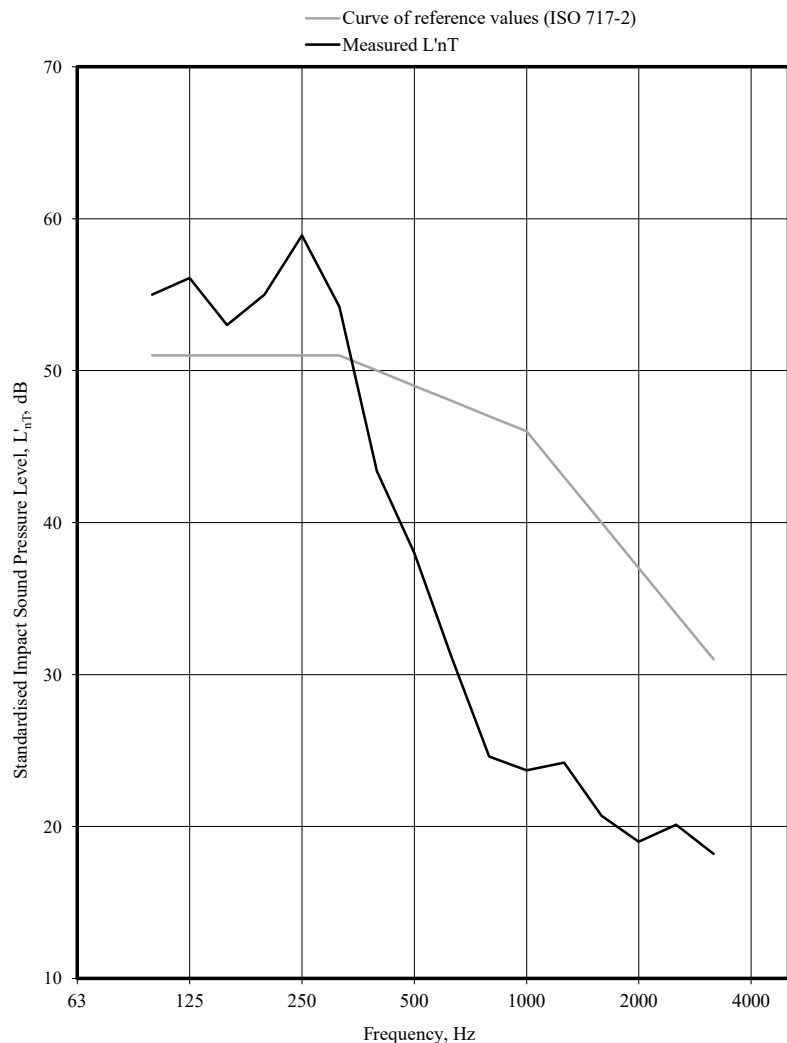
Receiver Room: Flat 09 Living Room/Kitchen

Floor Construction (Notional)

90mm rib deck on steel, 20mm backing foam. 18mm chipboard, 6mm ply, acoustic LVT vinyl finish. 150mm insulation, 1 layer plasterboard

Source Room Volume : 72 m³
Receiver Room Volume : 72 m³

Frequency Hz	L' _{nT} (one-third octave) dB
50	
63	
80	
100	55.0
125	56.1
160	53.0
200	55.0
250	58.9
315	54.2
400	43.4
500	38.0
630	31.1
800	24.6
1000	≤ 23.7
1250	≤ 24.2
1600	≤ 20.7
2000	≤ 19.0
2500	≤ 20.1
3150	≤ 18.2
4000	
5000	



Rating According to ISO 717-2

L'_{nT,w} = **49** dB

Evaluation based on field measurement results obtained by an engineering method

No. of Test Report: 105/190681/11

Name of Test Institute : PDA Ltd, 3 Bridgewater Court
Barsbank Lane, Lymm
Cheshire, WA13 0ER

Date: 05 December 2025

Notes:

≤ - measurement limited due to background

Signature :



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

Client: SBW Properties
Address: 402 Wilmslow Road, Withington, Manchester M20 3BN

Date of Test: 04 December 2025



Description of tested construction, test arrangement and direction of measurement :

Source Room: Flat 13 Bedroom 2

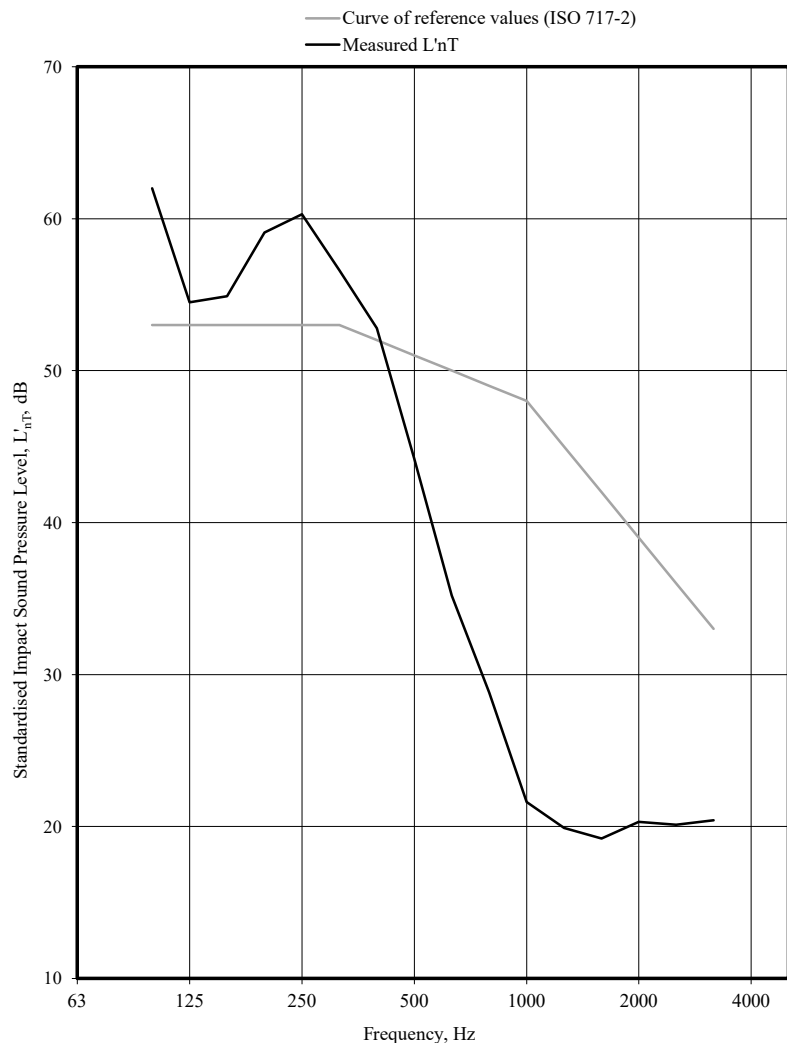
Receiver Room: Flat 09 Bedroom 2

Floor Construction (Notional)

90mm rib deck on steel, 20mm backing foam. 18mm chipboard, 6mm ply, acoustic LVT vinyl finish. 150mm insulation, 1 layer plasterboard

Source Room Volume : 31 m³
Receiver Room Volume : 31 m³

Frequency Hz	L' _{nT} (one-third octave) dB
50	
63	
80	
100	62.0
125	54.5
160	54.9
200	59.1
250	60.3
315	56.6
400	52.8
500	44.2
630	35.2
800	28.8
1000	≤ 21.6
1250	≤ 19.9
1600	≤ 19.2
2000	≤ 20.3
2500	≤ 20.1
3150	≤ 20.4
4000	
5000	



Rating According to ISO 717-2

L'_{nT,w} = **51** dB

Evaluation based on field measurement results obtained by an engineering method

No. of Test Report: 105/190681/12

Name of Test Institute : PDA Ltd, 3 Bridgewater Court
Barsbank Lane, Lymm
Cheshire, WA13 0ER

Date: 05 December 2025

Notes:

≤ - measurement limited due to background

Signature :

