

**Sound Insulation Test Report,
Produced in Compliance with Approved Document E,
Guidance to the Building Regulations.**

Test Reference Number: ECO/SIT/MJP/HSB/0313
Date of Test: 10th August 2026
Date of Report: 11th August 2026
Test Location: Hornby Street
Heywood
OL10 1AA

Report Prepared for: R & M Property Group
No 27 Ashton Court
Moss Lane
Sale
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M33 5AS

Test Conducted by: Mark Pimlett
Report Prepared by: Mark Pickering
**Report Checked and
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Test Organisation: Eco Technology LCZ Limited
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1.0 **Summary**

Eco Technology LCZ Limited was commissioned by R & M Property Group to conduct sound insulation tests to establish whether the airborne and impact sound insulation performance of the tested walls and floors separating the flats at Hornby Street in Heywood complied with the sound insulation performance requirements contained within Approved Document E (ADE).

The development comprises twelve new build flats at Hornby Street, Heywood, arranged over the ground and first floors and as such it falls within the "Purpose built dwelling houses and flats" category detailed in Approved Document E.

The results of the sound insulation tests have demonstrated that the airborne and impact sound insulation performance of the tested walls and floors separating the flats complied with the sound insulation performance requirements, contained within ADE, and so may be regarded as having 'passed' the tests.

Report prepared by:



Mark Pickering

Report checked and authorised by:



Debs Griffin

2.0 Introduction

Eco Technology LCZ Limited was commissioned by R & M Property Group to conduct sound insulation tests, in accordance with the requirements of the Building Regulations Approved Document E (ADE) 2003 edition (including the 2004, 2010, 2013 and 2015 amendments), guidance to the Building Regulations 2010. The tests were conducted to establish whether the airborne and impact sound insulation performance of the walls and floors separating the flats at Hornby Street, Heywood complied with the sound insulation performance requirements contained within the Approved Document (ADE).

3.0 Sound Insulation Performance Standards

3.1 Approved Document E, 2003 edition

Approved Document E (ADE) “Resistance to the Passage of Sound”, 2003 edition, (amended in 2004, 2013 and 2015) provides guidance as to how the requirements of the Building Regulations 2010, as they relate to sound insulation, may be met. The Approved Document details specific sound insulation performance requirements that are required for separating elements, walls and floors, in a number of situations, namely: dwelling houses and flats whether ‘purpose built’ or ‘formed by material change of use’ and rooms for residential purposes which may be either ‘purpose built’ or ‘formed by material change of use’. The specific sound insulation performance requirements that should be achieved by either ‘purpose built’ separating elements or those formed by ‘material change of use’ are detailed in Tables 0.1a and 0.1b of Section 0 in Approved Document E.

3.2 Requirements for the Tested Elements

As the tested flats are new build dwellings and as such fall within the “Purpose built dwelling houses and flats” category detailed in Table 0.1a of Approved Document E. As such, the sound insulation performance of the separating elements should comply with the criteria highlighted (emboldened) in the table below.

Sound Insulation Performance Criteria

Dwelling Houses and Flats		
Situation	Airborne sound insulation, $D_{nT,w} + C_{tr}$ dB (Minimum Value)	Impact sound insulation, $L'_{nT,w}$ dB (Maximum Value)
Purpose Built		
Walls	45	-
Floors and stairs	45	62

With respect to airborne sound insulation, the quoted performance standard is a minimum requirement, therefore the obtained test result should exceed, or as a minimum equal, the requirement.

For impact sound insulation the quoted performance standard is a maximum level, therefore the obtained test result should not exceed this performance standard.

4.0 Sound Test Details

4.1 Description of the Tested Flats

The development at Hornby Street, Heywood comprises a new build residential building containing twelve flats, arranged over the ground and first floors (photographs 1 in Appendix 1). The construction is of timber frame with timber separating floors and walls.

The dwellings are not believed to fall within the 'historic' building category as defined within ADE

4.2 Test Details

The sound insulation tests were conducted between 08:35 and 13:15 hours on the 10th August 2026.

All the measurements were made by Mr. Mark Pimlett of Eco Technology LCZ Limited, 11 Juno Close, Huntington, Chester, Cheshire. Eco Technology LCZ Limited is a UKAS accredited testing laboratory No. 4507, for the purposes of pre-completion sound insulation testing, to demonstrate compliance with the requirements of Approved Document E (2003 edition incorporating the 2004, 2010, 2013 and 2015 amendments), accreditation number 4507.

The sound insulation tests and all measurements made in connection with the tests were undertaken in accordance with the suggested procedures detailed in BS EN ISO 140 parts 4 and 7:1998: 'Field Measurements of Airborne Sound Insulation Between Rooms' and 'Field Measurements of Impact Sound Insulation Between Rooms', respectively. The results of the tests were analysed in accordance with the requirements of BS EN ISO 717 parts 1 and 2:1997: 'Rating of Sound Insulation in Buildings and of Building Elements – Airborne Sound Insulation' and 'Rating of Sound Insulation in Buildings and of Building Elements – Impact Sound Insulation', respectively.

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

4.3 Equipment

The equipment, detailed in the table below, was used throughout the sound insulation tests.

All the equipment used is calibrated by a UKAS accredited calibration laboratory and the calibration certificates are available on request.

With reference to the impact sound insulation test, the correct tapping machine hammer drop heights were checked and set, as necessary, before the test.

The sound level meter was calibrated before and on completion of the tests, with no significant deviation being observed.

Insulation Testing Equipment

Equipment Description	Manufacturer	Type Number	Serial Number	Date of Calibration	Calibration Certificate Numbers
Sound Level Meter	Rion	NA28	30152101	18 th , 19 th and 20 th February 2026	07521/2F, 07521/2R and 07521/2S
Acoustic Calibrator	Rion	NC 74	35046847	18 th February 2026	07521/1
Tapping Machine	ANV	TM 02	TM 02017	19 th February 2025	07126/1
Noise Sources	Yamaha	DXR 10	BEUX 01045	-	
Pink Noise Sources	Neutrik/Mini	MR2	G2L-RABCO-GO		

* Please note, in the case of a tapping machine the calibration is more correctly referred to as a verification of performance with reference to the requirements detailed in ISO 140 part 7

4.4 Testing Procedures

The field testing of separating elements for airborne sound insulation involves the generation and measurement of a controlled 'level' of noise in one of the pair of rooms (the source room) under test and measuring the resulting noise level in the other room (the receiving room), separated by the element that is under test. In both rooms a minimum of ten individual and randomly selected measurement positions are used, such that a representative assessment of the noise level within the entire volume of the two rooms is made. In both rooms, spatial and temporal averaging of the noise levels is carried out, in each of the ten measurement positions, by manually rotating the microphone through a complete circular path.

Once the source and receiving room noise measurements have been made, corrections are applied to the measured noise levels to account for the effects of both extraneous background noise and the effects of acoustic absorption within the receiving room. With reference to the acoustic absorption of the receiving room, this is determined from measurements of the reverberation time.

Measurements of reverberation time are made within the receiving rooms only; the measurements are made by generating a continuous wide band 'pink' noise signal, for a predetermined time period, after which the signal is turned off and the noise decay within the room is timed. The reverberation time is established by using one noise source position and measuring up to 18 separate decays in a number of randomly selected microphone positions, with multiple measurements being made in each of the measurement positions.

The corrected source and receiving room noise measurements are used to calculate the Standardised Level Differences (D_{nT}) for the individual third octave bands between 100 – 3150Hz; these are then compared with reference values to determine the Weighted Standardised Level Difference ($D_{nT,w}$). In addition, a spectrum adaptation term, the C_{tr} , is calculated which is then added to the Weighted Standardised Level Difference in order to obtain the single figure 'rating' that is compared with the sound insulation performance requirements detailed in ADE.

Impact sound insulation measurements apply to separating floor structures only, they are intended to provide an indication of the floor's ability to attenuate impact noise such as footfalls. The impact sound insulation is evaluated using a tapping machine which comprises five, 500 gramme, hammers that fall through 40mm at a rate of ten impacts per second.

The resulting noise, from the operation of the tapping machine, is measured in the receiving room only. The obtained noise levels from the receiving room are corrected for extraneous background noise and the effects of acoustic absorption using the method described above, finally allowing the Standardised Impact Sound Pressure Level (L'_{nT}) to be calculated for the individual third octave bands between 100 – 3150Hz. The L'_{nT} values are then compared with reference values to determine the Weighted Standardised Impact Sound Pressure Level ($L'_{nT,w}$) which is compared with the sound insulation performance requirements detailed in ADE.

At the time of testing the tested flats were unfurnished and unoccupied, with laminate floor coverings in place; all the impact tests were conducted on the finished floor.

4.5 Test Procedure Deviations

There were no deviations from the test procedure specified in BS EN ISO 140 parts 4 and 7:1998 or the guidance contained within ADE.

4.6 Sampling Frequency

The development comprises twelve flats in total. Applying the sampling regime contained within Section 1 of ADE, two sets of wall and floors tests, comprising four airborne wall tests, four airborne floor tests and four impact floor tests in total, were conducted between the flats.

In addition, the results presented in this report relate to the sample of elements presented at the time of testing by the client.

4.7 Arrangement of the Tested Elements

The source and receiving rooms were as detailed overleaf.

Airborne Sound Insulation Test - Walls

Source Room	Volume, m ³	Receiving Room	Volume, m ³
Flat 4, living room/kitchen	52	Flat 3, living room/kitchen	52
Flat 10, bedroom 1	31	Flat 11, bedroom 1	31
Flat 4, living room/kitchen	52	Flat 5, living room/kitchen	52
Flat 4, bedroom 1	30	Flat 5, bedroom 1	30

Airborne Sound Insulation Test - Floors

Source Room	Volume, m ³	Receiving Room	Volume, m ³
Flat 3, living room/kitchen	52	Flat 10, living room/kitchen	52
Flat 4, living room/kitchen	52	Flat 10, bedroom 1	31
Flat 5, living room/kitchen	52	Flat 11, bedroom 1	31
Flat 6, living room/kitchen	52	Flat 11, living room/kitchen	52

Impact Sound Insulation Test - Floors

Source Room	Volume, m ³	Receiving Room	Volume, m ³
Flat 10, living room/kitchen	52	Flat 3, living room/kitchen	52
Flat 10, bedroom 1	31	Flat 4, living room/kitchen	52
Flat 11, bedroom 1	31	Flat 5, living room/kitchen	52
Flat 11, living room/kitchen	52	Flat 6, living room/kitchen	52

4.8 Background Noise

The tabular presentation of both the D_{nT} and L'_{nT} values on the test certificates included in the Appendices may be accompanied by the presence of either a single asterisk '*' or a double asterisk '**' alongside each of the frequency values. The presence of the asterisks denote that the D_{nT} or L'_{nT} values have been 'background' noise corrected as per the requirements of Section 6.6 and 5.6 of BS EN ISO 140 parts 4 and 7:1998 respectively. The presence of a single asterisk indicates that the measured 'signal' level has been corrected according to equation 8 or 5, of BS EN ISO 140 parts 4 and 7:1998 respectively, whereas the presence of a double asterisk indicates that the 1.3dB correction has been applied.

During the course of the tests the principal contributors to the background noise climate were noise from ongoing construction activity on the site and traffic noise from the nearby main road.

4.9 Separating Wall Construction

The following information was supplied by the client.

Twin independent timber stud construction, with each stud frame fully filled with mineral fibre and the two frames separated by a 70mm cavity. Both stud frames were lined with two layers of 15mm SoundBloc plasterboard.

This construction accords with a type 4 wall construction as detailed in Section 2 of ADE.

4.10 Separating Floor Construction

The following information was supplied by the client.

Timber floor construction comprising a 250mm deep timber floor cassette, With 100mm of mineral fibre and decked with 18mm boarding. A floating layer, comprising a second 28mm deck, was installed over the cassette and finished with Laminate flooring. The underside of the cassette was lined with two layers of 15mm SoundBloc plasterboard, below which an independent ceiling of 12.5mm plasterboard was installed, creating a 250mm void.

This construction is similar to a type 3 floor construction as detailed in Section 3 of ADE.

4.11 Flanking Wall Construction

The flanking walls comprised the external walls of the timber frame construction.

5.0 Results

The results of the sound insulation tests are reproduced in the tables below and overleaf, graphical presentations of the results are contained within Appendices 2, 3 and 4.

Airborne Sound Insulation Test Results - Walls

Test N°	Source room	Receiving room	Measured performance $D_{nT,w} + C_{tr}$ dB	ADE Minimum performance $D_{nT,w} + C_{tr}$ dB	ADE, 'Pass' or 'Fail'
1.1	Flat 4, living room/kitchen	Flat 3, living room/kitchen	57	45	'Pass'
1.2	Flat 10, bedroom 1	Flat 11, bedroom 1	59	45	'Pass'
1.3	Flat 4, living room/kitchen	Flat 5, living room/kitchen	62	45	'Pass'
1.4	Flat 4, bedroom 1	Flat 5, bedroom 1	59	45	'Pass'

Airborne Sound Insulation Test Results – Floors

Test N°	Source room	Receiving room	Measured performance $D_{nT,w} + C_{tr}$ dB	ADE Minimum performance $D_{nT,w} + C_{tr}$ dB	ADE, 'Pass' or 'Fail'
2.1	Flat 3, living room/kitchen	Flat 10, living room/kitchen	53	45	'Pass'
2.2	Flat 4, living room/kitchen	Flat 10, bedroom 1	47	45	'Pass'
2.3	Flat 5, living room/kitchen	Flat 11, bedroom 1	52	45	'Pass'
2.4	Flat 6, living room/kitchen	Flat 11, living room/kitchen	47	45	'Pass'

Impact Sound Insulation Test Results - Floors

Test N°	Source room	Receiving room	Measured performance $L'_{nT,w}$ dB	ADE Maximum performance $L'_{nT,w}$ dB	ADE, 'Pass' or 'Fail'
3.1	Flat 10, living room/kitchen	Flat 3, living room/kitchen	52	62	'Pass'
3.2	Flat 10, bedroom 1	Flat 4, living room/kitchen	54	62	'Pass'
3.3	Flat 11, bedroom 1	Flat 5, living room/kitchen	52	62	'Pass'
3.4	Flat 11, living room/kitchen	Flat 6, living room/kitchen	51	62	'Pass'

6.0 Discussion

The results of the sound insulation tests have demonstrated that the airborne and impact sound insulation performance of the tested walls and floors separating the flats complied with the sound insulation performance requirements, contained within ADE, and so may be regarded as having 'passed' the tests.

Appendix 1. Photograph**Photograph 1: Front Elevation of the site at Hornby Street in Heywood**

Appendix 2: Airborne Sound Insulation Result Certificates – Walls

Calculation of the Standardised Level Difference According to ISO 140-4

Field Measurements of Airborne Sound Insulation Between Rooms

Client: R&M Property Group
Test Location: Hornby Street, Oldham
Transmission Direction: Horizontal via Wall

Date of Test: 10th August 2026

Description of test arrangement and direction of measurement :
 Flat 4, living room kitchen to Flat 3, living room kitchen

Wall Construction (notional)
 Type 4

Source Room

Volume, m³: 52

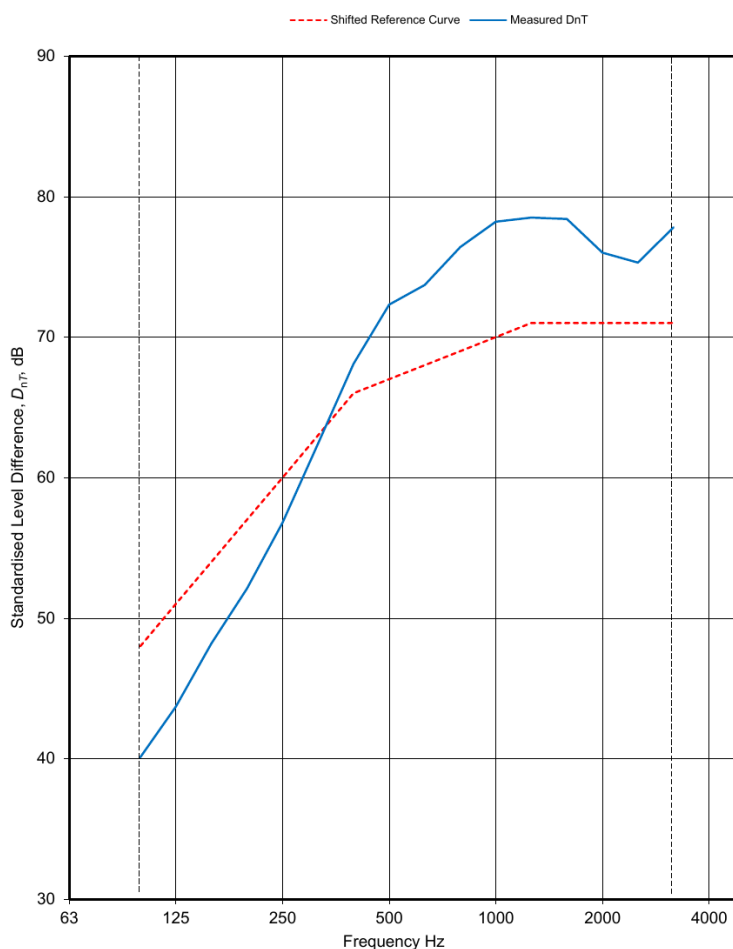
Receiver Room

Volume, m³: 52

Frequency, Hz	D_{nT} dB
50	
63	
80	
100	40.1
125	43.7
160	48.2
200	52.1
250	56.8
315	62.4
400	68.1
500	72.3
630	73.7
800	76.4
1000	78.2
1250	78.5
1600	78.4
2000	76.0
2500	75.3
3150	77.8
4000	
5000	

* background adjusted measurement

** background corrected measurement



Rating According to ISO 717-1

$D_{nT,w} (C:C_{tr}) = 67 \quad (-3 \quad -10) \text{ dB}$

Overall Result,
 $D_{nT,w} + C_{tr}, \text{ dB} =$
57

Evaluation based on field measurement results obtained by an engineering method

Test Certificate N°: 0313.1.1

Test Institute: Eco Technology LCZ Limited
 11 Juno Close, Huntington, Chester



Date of Certificate: 10.08.2026

Tester Name: M Pimlett

Calculation of the Standardised Level Difference According to ISO 140-4

Field Measurements of Airborne Sound Insulation Between Rooms

Client: R&M Property Group
Test Location: Hornby Street, Oldham
Transmission Direction: Horizontal via Wall

Date of Test: 10th August 2026

Description of test arrangement and direction of measurement :
 Flat 10, bedroom 1 to Flat 11, bedroom 1

Wall Construction (notional)
 Type 4

Source Room

Volume, m³: 31

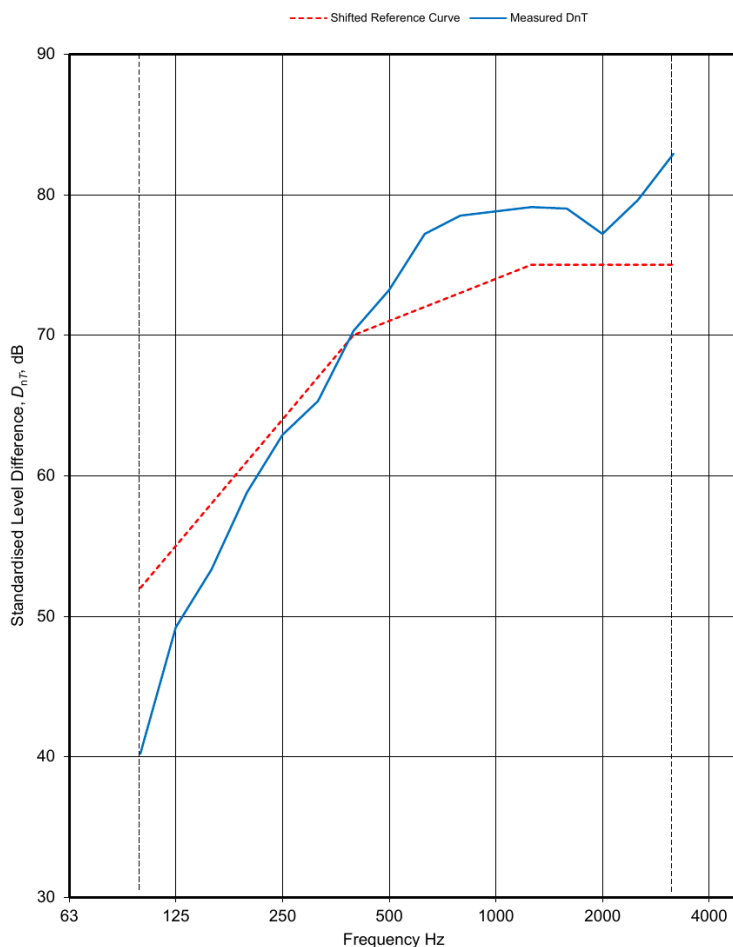
Receiver Room

Volume, m³: 31

Frequency, Hz	D_{nT} dB
50	
63	
80	
100	40.2
125	49.2
160	53.3
200	58.8
250	62.9
315	65.3
400	70.3
500	73.2
630	77.2
800	78.5
1000	78.8
1250	79.1
1600	79.0
2000	77.2
2500	79.6
3150	82.9
4000	
5000	

* background adjusted measurement

** background corrected measurement



Rating According to ISO 717-1

$D_{nT,w} (C:C_{tr}) = 71 \quad (-4 \quad -12) \text{ dB}$

Overall Result,
 $D_{nT,w} + C_{tr}, \text{ dB} =$
59

Evaluation based on field measurement results obtained by an engineering method

Test Certificate N°: 0313.1.2

Test Institute: Eco Technology LCZ Limited
 11 Juno Close, Huntington, Chester



Date of Certificate: 10.08.2026

Tester Name: M Pimlett

Calculation of the Standardised Level Difference According to ISO 140-4

Field Measurements of Airborne Sound Insulation Between Rooms

Client: R&M Property Group
Test Location: Hornby Street, Oldham
Transmission Direction: Horizontal via Wall

Date of Test: 10th August 2026

Description of test arrangement and direction of measurement :
 Flat 4, living room kitchen to Flat 5, living room kitchen

Wall Construction (notional)
 Type 4

Source Room

Volume, m³: 52

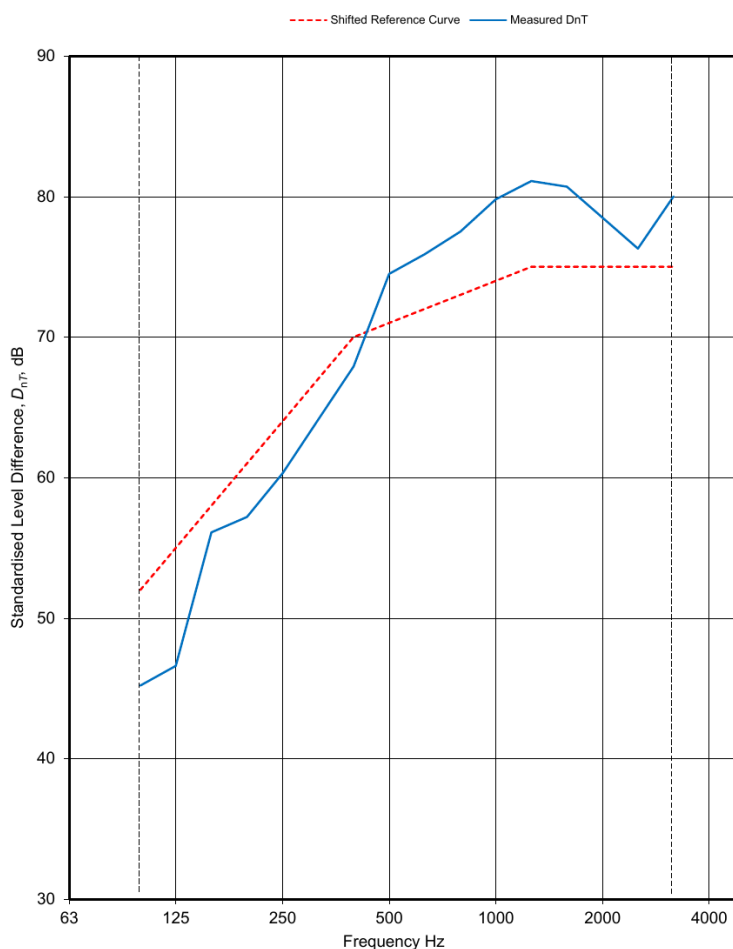
Receiver Room

Volume, m³: 52

Frequency, Hz	D_{nT} dB
50	
63	
80	
100	45.2
125	46.6
160	56.1
200	57.2
250	60.3
315	64.1
400	67.9
500	74.5 *
630	75.9 **
800	77.5 **
1000	79.8 **
1250	81.1 **
1600	80.7 **
2000	78.5 *
2500	76.3 *
3150	80.0 *
4000	
5000	

* background adjusted measurement

** background corrected measurement



Rating According to ISO 717-1

$D_{nT,w} (C:C_{tr}) = 71 \quad (-3 \quad -9) \text{ dB}$

Overall Result,
 $D_{nT,w} + C_{tr}, \text{ dB} =$
62

Evaluation based on field measurement results obtained by an engineering method

Test Certificate N°: 0313.1.3

Test Institute: Eco Technology LCZ Limited
 11 Juno Close, Huntington, Chester



Date of Certificate: 10.08.2026

Tester Name: M Pimlett

Calculation of the Standardised Level Difference According to ISO 140-4

Field Measurements of Airborne Sound Insulation Between Rooms

Client: R&M Property Group
Test Location: Hornby Street, Oldham
Transmission Direction: Horizontal via Wall

Date of Test: 10th August 2026

Description of test arrangement and direction of measurement :
 Flat 4, bedroom 1 to Flat 5, bedroom 1

Wall Construction (notional)
 Type 4

Source Room

Volume, m³: 30

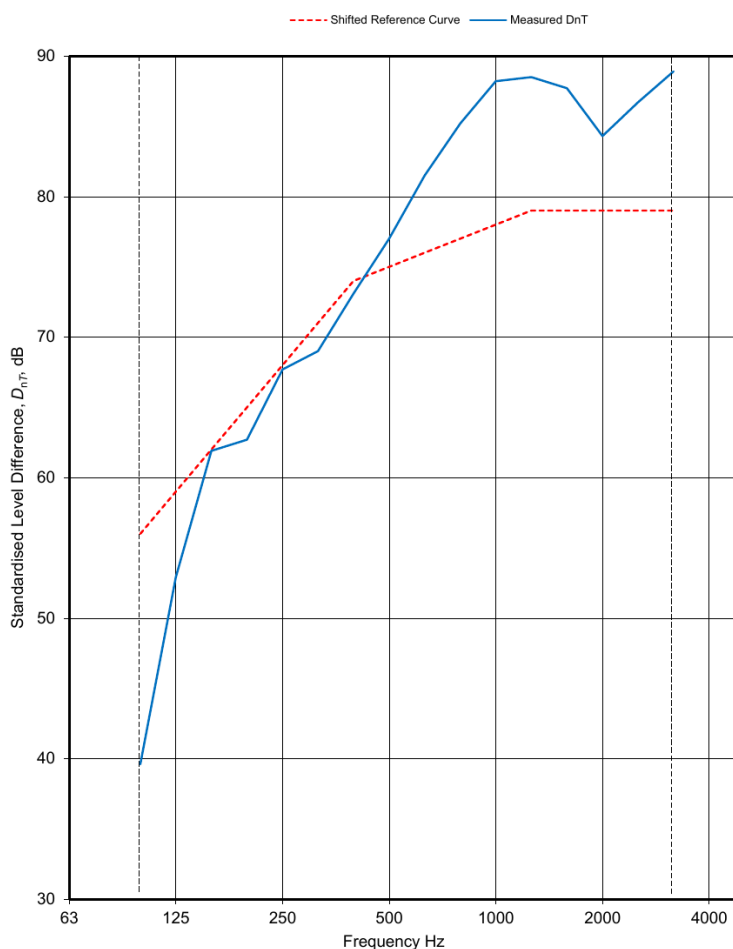
Receiver Room

Volume, m³: 30

Frequency, Hz	D_{nT} dB
50	
63	
80	
100	39.6
125	52.9
160	61.9
200	62.7
250	67.7
315	69.0
400	73.1
500	77.0
630	81.5
800	85.2
1000	88.2
1250	88.5
1600	87.7
2000	84.3
2500	86.7
3150	88.9
4000	
5000	

* background adjusted measurement

** background corrected measurement



Rating According to ISO 717-1

$D_{nT,w} (C:C_{tr}) = 75 \quad (-7 \quad -16) \text{ dB}$

Overall Result,
 $D_{nT,w} + C_{tr}, \text{ dB} =$
59

Evaluation based on field measurement results obtained by an engineering method

Test Certificate N°: 0313.1.4

Test Institute: Eco Technology LCZ Limited
 11 Juno Close, Huntington, Chester



Date of Certificate: 10.08.2026

Tester Name: M Pimlett

Appendix 3: Airborne Sound Insulation Result Certificates – Floors

Calculation of the Standardised Level Difference According to ISO 140-4

Field Measurements of Airborne Sound Insulation Between Rooms

Client: R&M Property Group
Test Location: Hornby Street, Oldham
Transmission Direction: Vertical via Floor

Date of Test: 10th August 2026

Description of test arrangement and direction of measurement :
 Flat 3, living room kitchen to Flat 10, living room kitchen

Floor Construction (notional)
 Type 3

Source Room

Volume, m³: 52

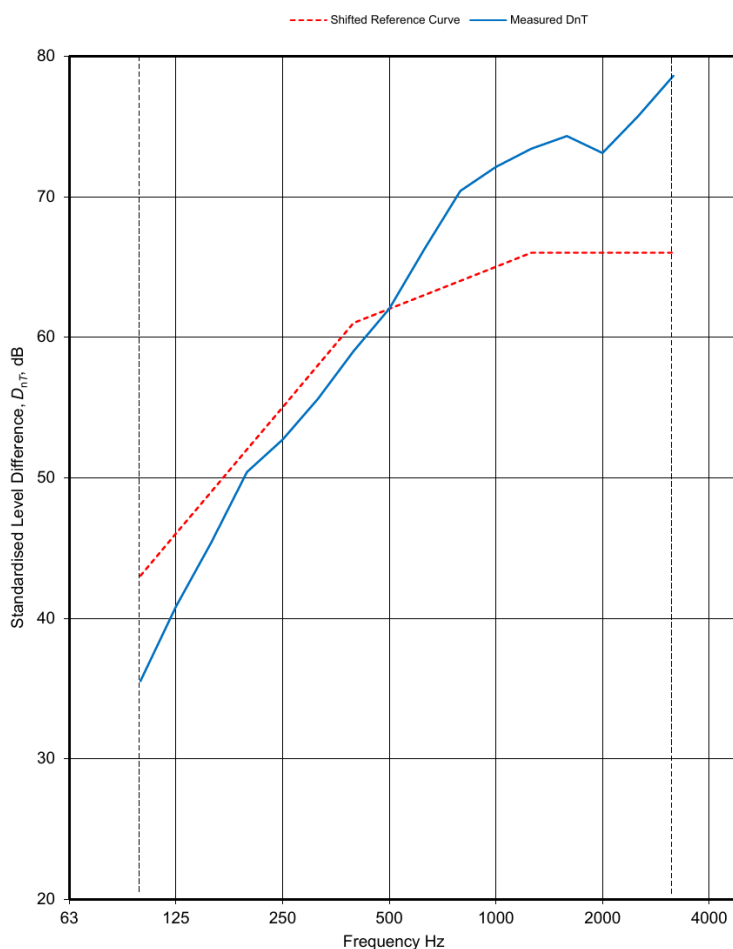
Receiver Room

Volume, m³: 52

Frequency, Hz	D_{nT} dB
50	
63	
80	
100	35.5
125	40.8
160	45.4
200	50.4
250	52.7
315	55.6
400	59.0
500	62.0
630	66.3 *
800	70.4 *
1000	72.1 *
1250	73.4 *
1600	74.3 *
2000	73.1 *
2500	75.7 *
3150	78.6 *
4000	
5000	

* background adjusted measurement

** background corrected measurement



Rating According to ISO 717-1

$D_{nT,w} (C:C_{tr}) = 62 \quad (-2 \quad -9) \text{ dB}$

Overall Result,
 $D_{nT,w} + C_{tr}, \text{ dB} =$
53

Evaluation based on field measurement results obtained by an engineering method

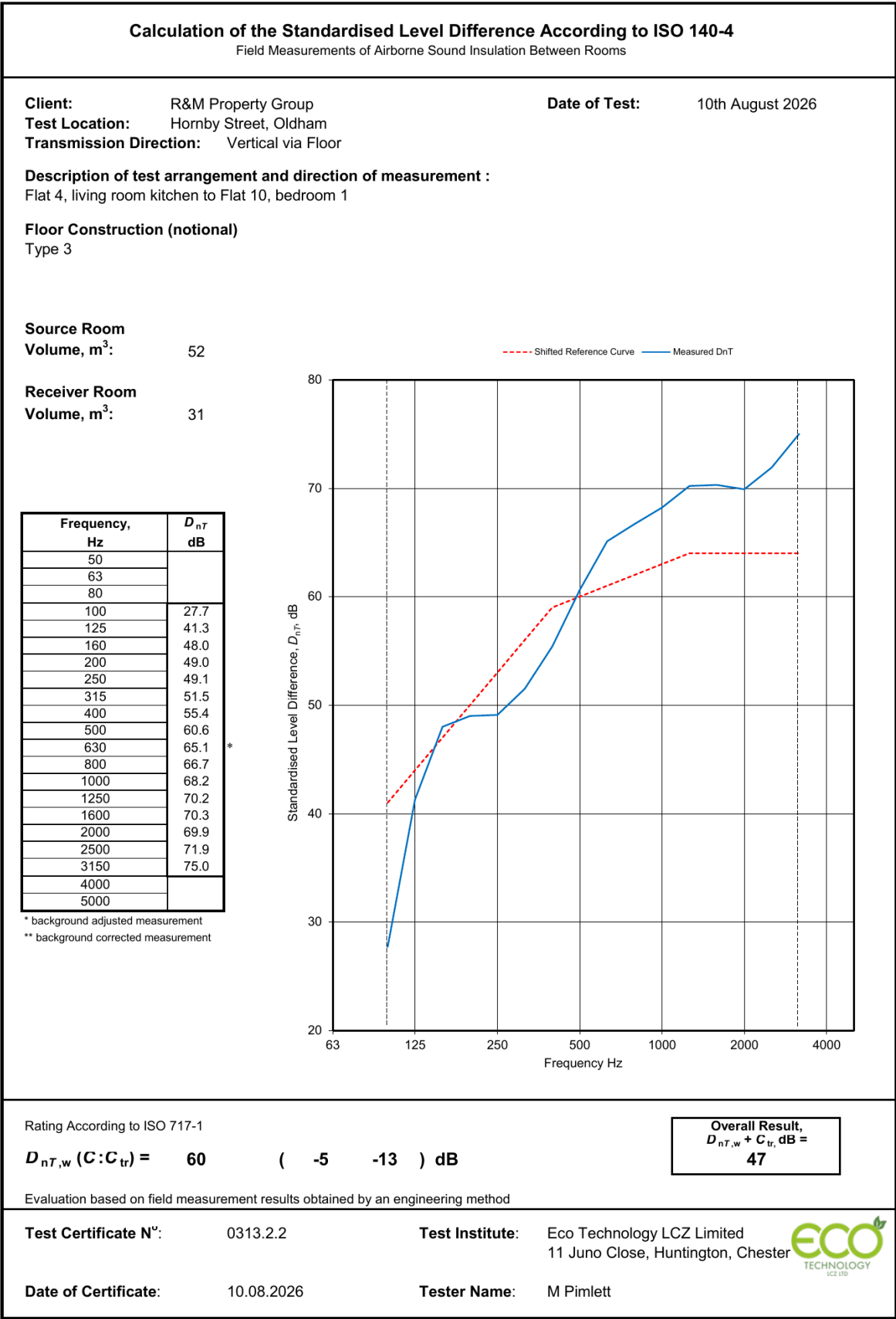
Test Certificate N°: 0313.2.1

Test Institute: Eco Technology LCZ Limited
 11 Juno Close, Huntington, Chester



Date of Certificate: 10.08.2026

Tester Name: M Pimlett



Calculation of the Standardised Level Difference According to ISO 140-4

Field Measurements of Airborne Sound Insulation Between Rooms

Client: R&M Property Group
Test Location: Hornby Street, Oldham
Transmission Direction: Vertical via Floor

Date of Test: 10th August 2026

Description of test arrangement and direction of measurement :
 Flat 5, living room kitchen to Flat 11, bedroom 1

Floor Construction (notional)
 Type 3

Source Room

Volume, m³: 52

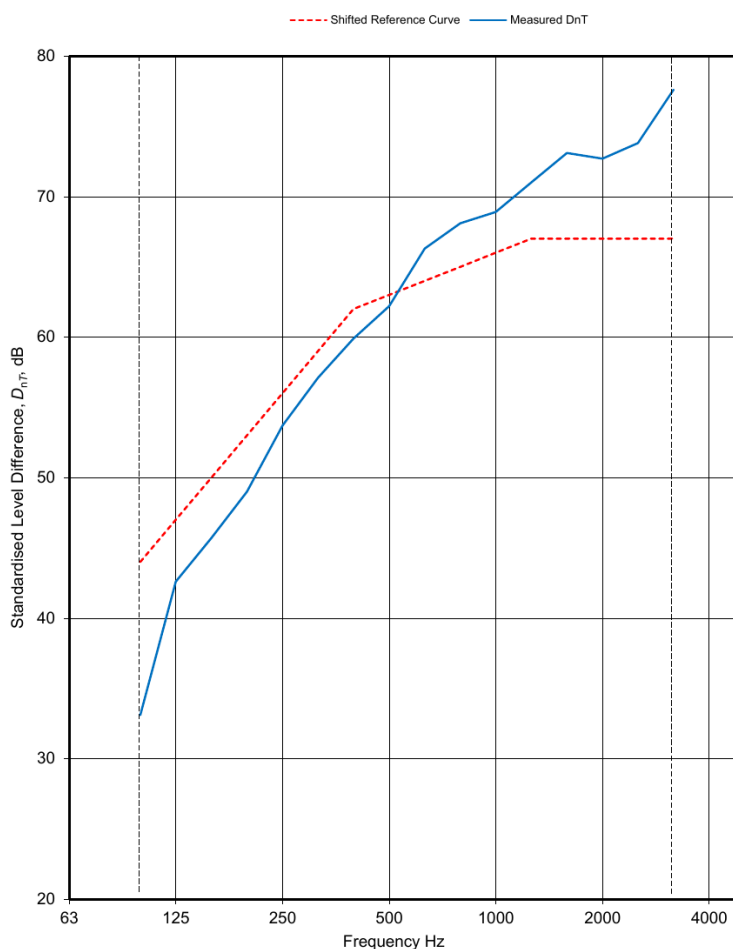
Receiver Room

Volume, m³: 31

Frequency, Hz	D_{nT} dB
50	
63	
80	
100	33.1
125	42.6
160	45.7
200	49.0
250	53.7
315	57.1
400	59.9
500	62.2
630	66.3 *
800	68.1 **
1000	68.9 *
1250	71.0 *
1600	73.1 **
2000	72.7 **
2500	73.8 **
3150	77.6 **
4000	
5000	

* background adjusted measurement

** background corrected measurement



Rating According to ISO 717-1

$D_{nT,w} (C:C_{tr}) = 63 \quad (-4 \quad -11) \text{ dB}$

Overall Result,
 $D_{nT,w} + C_{tr}, \text{ dB} =$
52

Evaluation based on field measurement results obtained by an engineering method

Test Certificate N°: 0313.2.3

Test Institute: Eco Technology LCZ Limited
 11 Juno Close, Huntington, Chester



Date of Certificate: 10.08.2026

Tester Name: M Pimlett

Calculation of the Standardised Level Difference According to ISO 140-4

Field Measurements of Airborne Sound Insulation Between Rooms

Client: R&M Property Group
Test Location: Hornby Street, Oldham
Transmission Direction: Vertical via Floor

Date of Test: 10th August 2026

Description of test arrangement and direction of measurement :
 Flat 6, living room kitchen to Flat 11, living room kitchen

Floor Construction (notional)
 Type 3

Source Room

Volume, m³: 52

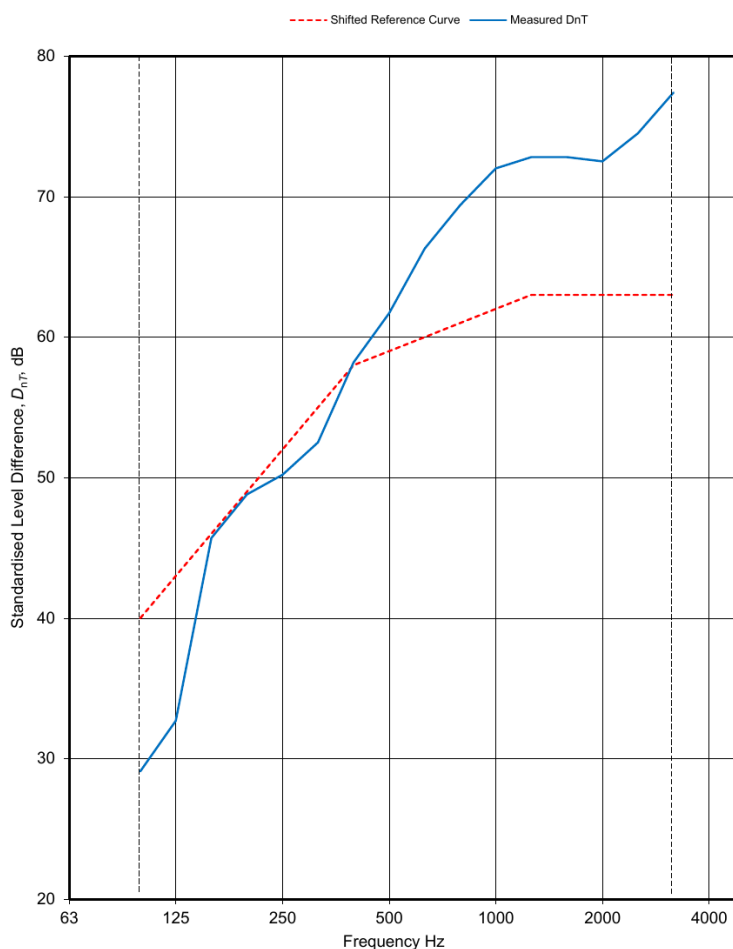
Receiver Room

Volume, m³: 52

Frequency, Hz	D_{nT} dB
50	
63	
80	
100	29.1
125	32.7
160	45.7
200	48.8
250	50.2
315	52.5
400	58.2
500	61.7
630	66.3 *
800	69.4 **
1000	72.0 **
1250	72.8 **
1600	72.8 **
2000	72.5 **
2500	74.5 **
3150	77.4 **
4000	
5000	

* background adjusted measurement

** background corrected measurement



Rating According to ISO 717-1

$D_{nT,w} (C:C_{tr}) = 59 \quad (-5 \quad -12) \text{ dB}$

Overall Result,
 $D_{nT,w} + C_{tr}, \text{ dB} =$
47

Evaluation based on field measurement results obtained by an engineering method

Test Certificate N°: 0313.2.4

Test Institute: Eco Technology LCZ Limited
 11 Juno Close, Huntington, Chester



Date of Certificate: 10.08.2026

Tester Name: M Pimlett

Appendix 4: Impact Sound Insulation Result Certificates – Floors

Calculation of the Standardised Impact Sound Pressure Level to ISO 140-7

Field Measurements of Impact sound insulation of floors

Client: R&M Property Group
Test Location: Hornby Street, Oldham
Transmission Direction: Vertical via Floor

Date of Test: 10th August 2026

Description of test arrangement and direction of measurement :

Flat 10, living room kitchen to Flat 3, living room kitchen

Floor Construction (notional)

Type 3

Source Room

Volume, m³: 52

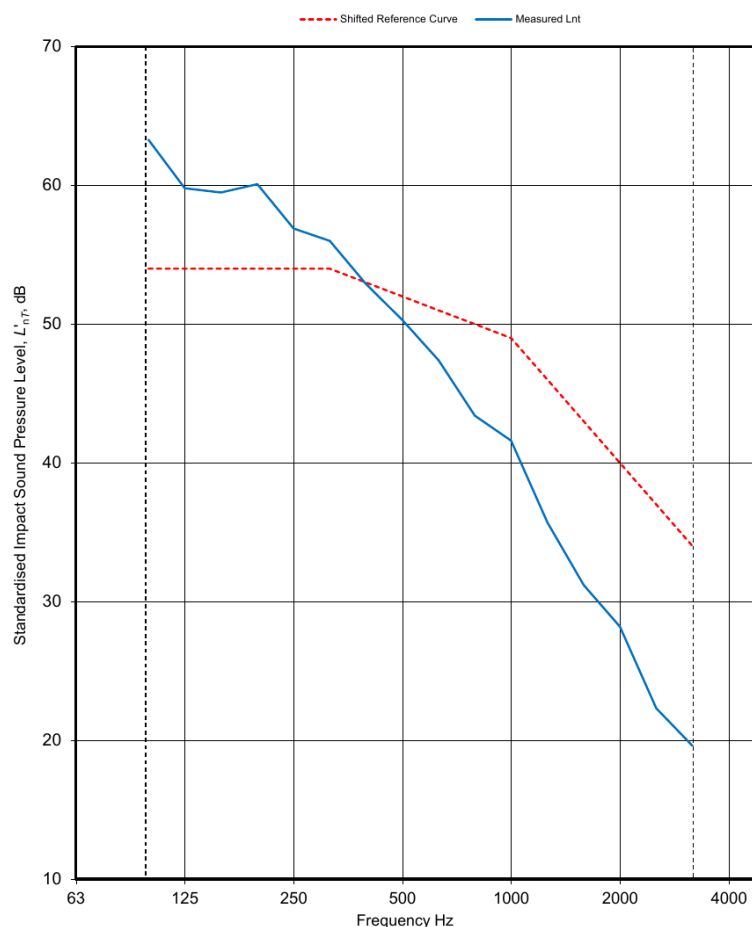
Receiver Room

Volume, m³: 52

Frequency, Hz	L'_{nT} dB
50	
63	
80	
100	63.3
125	59.8
160	59.5
200	60.1
250	56.9
315	56.0
400	52.9
500	50.3
630	47.4
800	43.4
1000	41.6
1250	35.7
1600	31.2
2000	28.2
2500	22.3
3150	19.6
4000	
5000	

* background adjusted measurement

** background corrected measurement



Rating According to ISO 717-2

$L'_{nT,w} =$

52

Evaluation based on field measurement results obtained by an engineering method

Test Certificate N°: 0313.3.1

Test Institute: Eco Technology LCZ Limited
 11 Juno Close, Huntington, Chester



Date of Certificate: 10.08.2026

Tester Name: M Pimlett

Calculation of the Standardised Impact Sound Pressure Level to ISO 140-7

Field Measurements of Impact sound insulation of floors

Client: R&M Property Group
Test Location: Hornby Street, Oldham
Transmission Direction: Vertical via Floor

Date of Test: 10th August 2026

Description of test arrangement and direction of measurement :

Flat 10, bedroom 1 to Flat 4, living room kitchen

Floor Construction (notional)

Type 3

Source Room

Volume, m³: 31

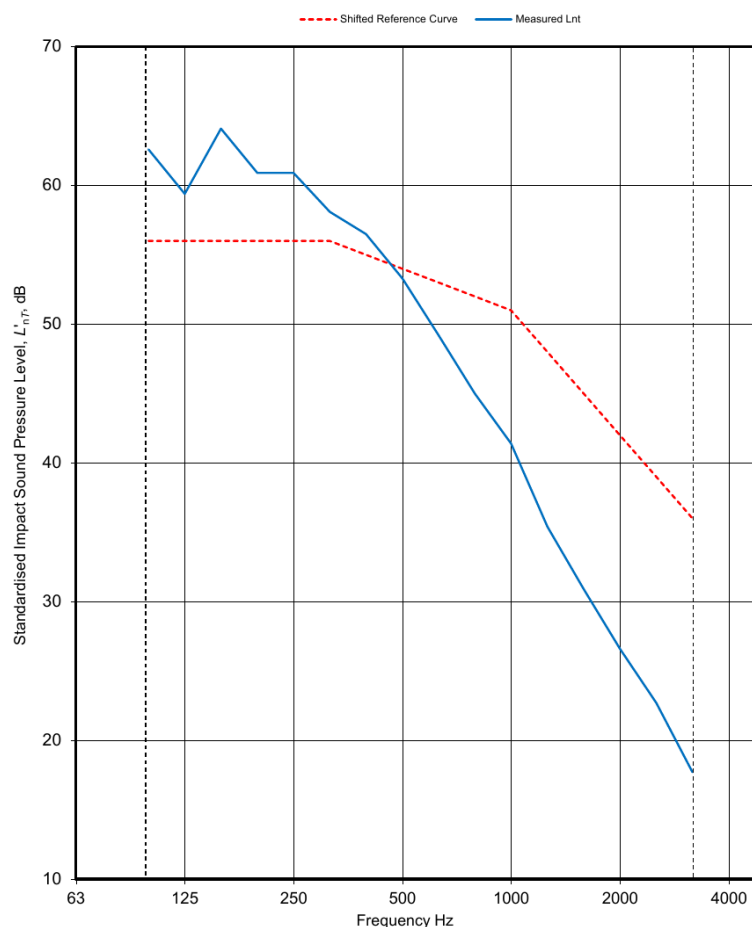
Receiver Room

Volume, m³: 52

Frequency, Hz	L'_{nT} dB
50	
63	
80	
100	62.6
125	59.4
160	64.1
200	60.9
250	60.9
315	58.1
400	56.5
500	53.3
630	49.2
800	45.0
1000	41.4
1250	35.4
1600	30.9
2000	26.6
2500	22.7
3150	17.7 *
4000	
5000	

* background adjusted measurement

** background corrected measurement



Rating According to ISO 717-2

$L'_{nT,w} =$

54

Evaluation based on field measurement results obtained by an engineering method

Test Certificate N°: 0313.3.2

Test Institute: Eco Technology LCZ Limited
 11 Juno Close, Huntington, Chester



Date of Certificate: 10.08.2026

Tester Name: M Pimlett

Calculation of the Standardised Impact Sound Pressure Level to ISO 140-7

Field Measurements of Impact sound insulation of floors

Client: R&M Property Group
Test Location: Hornby Street, Oldham
Transmission Direction: Vertical via Floor

Date of Test: 10th August 2026

Description of test arrangement and direction of measurement :

Flat 11, bedroom 1 to Flat 5, living room kitchen

Floor Construction (notional)

Type 3

Source Room

Volume, m³: 31

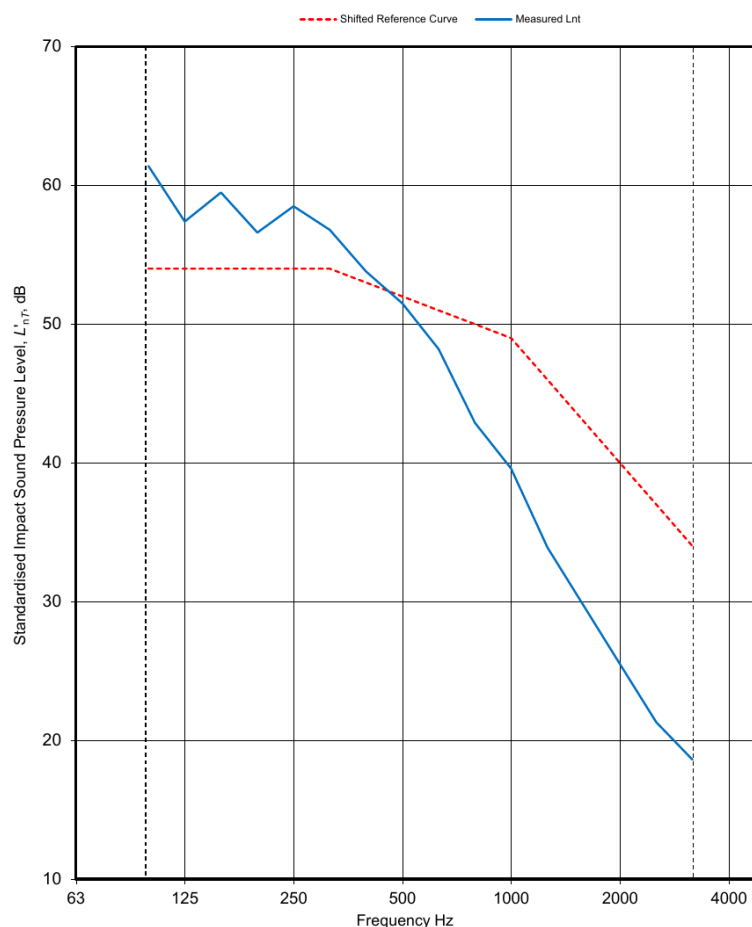
Receiver Room

Volume, m³: 52

Frequency, Hz	L'_{nT} dB
50	
63	
80	
100	61.4
125	57.4
160	59.5
200	56.6
250	58.5
315	56.8
400	53.8
500	51.5
630	48.2
800	42.9
1000	39.6
1250	33.9
1600	29.7
2000	25.5
2500	21.3
3150	18.6
4000	
5000	

* background adjusted measurement

** background corrected measurement



Rating According to ISO 717-2

$L'_{nT,w} =$

52

Evaluation based on field measurement results obtained by an engineering method

Test Certificate N°: 0313.3.3

Test Institute: Eco Technology LCZ Limited
 11 Juno Close, Huntington, Chester



Date of Certificate: 10.08.2026

Tester Name: M Pimlett

Calculation of the Standardised Impact Sound Pressure Level to ISO 140-7

Field Measurements of Impact sound insulation of floors

Client: R&M Property Group
Test Location: Hornby Street, Oldham
Transmission Direction: Vertical via Floor

Date of Test: 10th August 2026

Description of test arrangement and direction of measurement :

Flat 11, living room kitchen to Flat 6, living room kitchen

Floor Construction (notional)

Type 3

Source Room

Volume, m³: 52

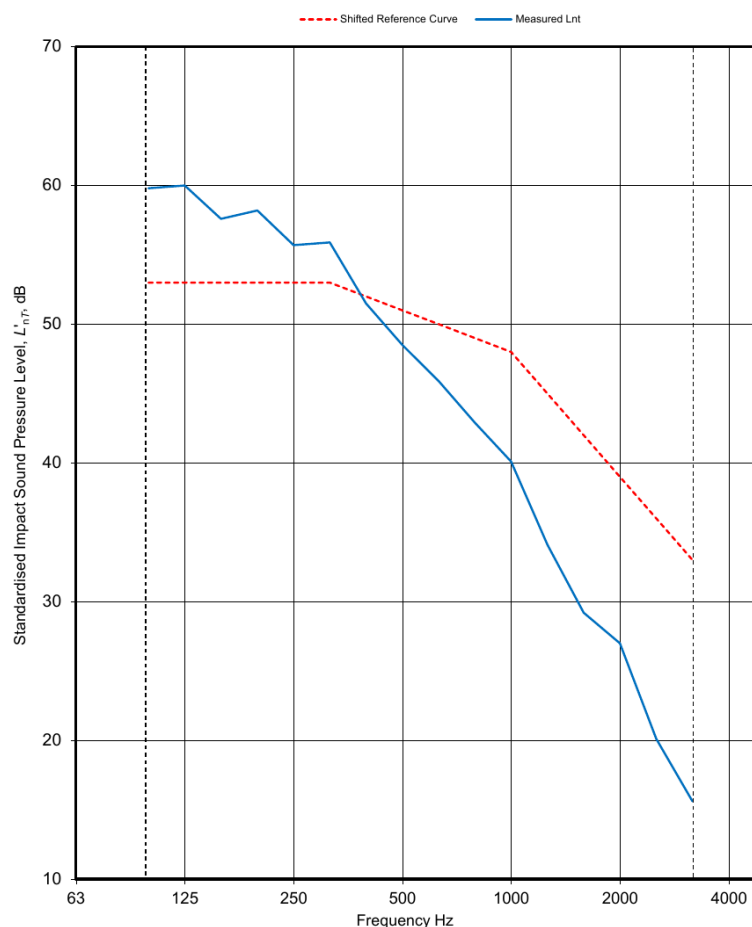
Receiver Room

Volume, m³: 52

Frequency, Hz	L'_{nT} dB
50	
63	
80	
100	59.8
125	60.0
160	57.6
200	58.2
250	55.7
315	55.9
400	51.5
500	48.5
630	45.9
800	42.9
1000	40.1
1250	34.1
1600	29.2
2000	27.0
2500	20.1
3150	15.6
4000	
5000	

* background adjusted measurement

** background corrected measurement



Rating According to ISO 717-2

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

Evaluation based on field measurement results obtained by an engineering method

Test Certificate N°: 0313.3.4

Test Institute: Eco Technology LCZ Limited
 11 Juno Close, Huntington, Chester



Date of Certificate: 10.08.2026

Tester Name: M Pimlett