PRE-COMPLETION SOUND INSULATION TESTING

11 & 15 ALBION STREET

CHEESMUR BUILDING CONTRACTORS

FEBRUARY 2025

PRE-COMPLETION SOUND INSULATION TESTING
11 & 15 ALBION STREET

Our Ref: 7633_001R_2-0_CM

UKAS TESTING
4116

Anderson Acoustics

Client:	**Cheesmur Building Contractors** Cobbe Barns Beddingham Lewes East Sussex BN8 6JU
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REVISION HISTORY

Version	Comments	Changes made by	Approved by
P01	First Issued Version	CM	DM
P02	Second Issued Version	CM	DM

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1 INTRODUCTION

Anderson Acoustics Limited was commissioned to undertake pre-completion sound insulation testing by Cheesmur Building Contractors as part of the development at Duke View House, 11 Albion Street, Southwick, BN42 4DN and Monarch View House, 15 Albion Street, Southwick, BN42 4BX.

Sound insulation tests were carried out between sample rooms of flats at 11 and 15 Albion Street on the 31st January 2025 and 3rd February 2025 and comprised 10 airborne wall, 10 airborne floor and 10 impact floor tests between units. There is also a requirement to discharge Planning Condition 4.

The purpose of the sound insulation testing was to ascertain whether the construction of seperating walls and floors complied with the numerical performance standards stated in Approved Document E of the Building Regulations [1].

The results detailed in this report relate only to the items tested.

Anderson Acoustics is responsible for all the information provided in this report, except when information is provided by Cheesmur Building Contractors. Any information supplied by Cheesmur Building Contractors and can affect the validity of results. The results provided in this report apply to the sample as received.

Anderson Acoustics Ltd is a UKAS accredited company for sound insulation testing, number 4116.

2 APPROVED DOCUMENT E

Approved Document E (2003 Edition) to the Building Regulations 2010 (ADE) [1] states that the performance standards detailed in Table 2.1 shall be achieved.

Table 2.1: Dwelling-Houses and Flats – Performance Standards for Separating Walls, Separating Floors, and Stairs that have a Separating Function

Description and Separating Element	Airborne Sound Insulation DnT,w + Ctr dB (minimum values)	Impact Sound Insulation $L'_{nT,w}$ dB (maximum value)
Purpose built dwelling-houses and flats		
Walls	45	-
Floors and stairs	45	62

Airborne sound describes sounds that travel through the air before entering the building structure which could include voices and TV sets. Impact sound describes sounds that arise as a result of a direct impact on the building structure, such as footsteps.

It should be noted that for airborne sound insulation the higher the value the better, whereas for impact sound the lower the value, the better the impact sound isolation.

ADE specifies that a full set of tests be conducted for at least one in every 10 units of the same construction group, where it is possible to do so. A full set of tests comprises a total of 6 individual tests - 2 airborne wall, 2 airborne floor and 2 impact floor tests.

3 PLANNING CONDITION

The following planning condition is associated with the development as it pertains to sound insulation.

Planning Condition 4:

> *No flat shall be occupied until sound insulation testing has been carried out between all dissimilar rooms (kitchen/lounges which are positioned directly above, below and adjacent to bedrooms in different flats) and to confirm compliance with Approved Document E specifications of the Building Regulations and the results submitted to the local planning authority.*
>
> *Reason: In the interests of residential amenity and to comply with policies 15 and 34 of the Adur Local Plan.*

4 SITE AND SURVEY DETAILS

4.1 Site Details

4.1.1 Site Address

Duke View House
11 Albion Street
Southwick
BN42 4DN

Monarch View House
15 Albion Street
Southwick
BN42 4BX.

4.1.2 Site Description

The development consists of 49 flats, distributed across 2 no. blocks.

In accordance with the terminology adopted in ADE, the properties in this development are "*Purpose built dwelling – houses and flats"*.

4.2 Test Programme

At least one full set of tests is required for one in every 10 units of the same construction group (or sub-group), where it is possible to do so. A full set of tests comprises a total of 6 individual tests - 2 airborne wall, 2 airborne floor and 2 impact floor tests.

Therefore, the development described in Section 4.1.2, separated by the same construction, requires a total of 5 sets of tests. The following tests are necessary: 10 airborne wall tests, 10 airborne floor tests, and 10 impact floor tests

4.3 Survey Details

4.3.1 Date and Time of Survey

31st January 2025 and 3rd February 2025

4.3.2 Survey Personnel

Miss Caroline McKinlay BSc (Hons) Affil MIOA and Mr Callum Brewer MSc (Hons) MIOA

4.3.3 Survey and Measurement Procedure

The 10 airborne wall, 10 airborne floor and 10 impact floor tests required between sample rooms were carried out at this development.

The sound level meter was calibrated before and after the survey using a Norsonic 140 Sound Level Meter Calibrator. No significant calibration drift was observed.

Background noise levels were generally low with some instances where construction noise dominated.

The airborne sound insulation was measured according to BS EN ISO 140-4:1998 *Field measurements of airborne sound insulation between rooms* [2] and rated in accordance with BS EN ISO 717-1: 1997 *Rating of Sound Insulation in Buildings and of Building Elements. Part 1: Airborne Sound Insulation* [3].

The impact insulation was measured according to BS EN ISO 140-7:1998 *Field measurements of impact insulation between rooms* [4] and rated in accordance with BS EN ISO 717-2: 1997 *Rating of Sound Insulation in Buildings and of Building Elements. Part 2: Impact Sound Insulation* [5].

Further details of the survey procedure and the rating of sound insulation are given in Appendix A.

4.4 Equipment Details

The following equipment was used for the sound insulation testing:

Table 4.1: Equipment Details

Equipment	Make & Model	Serial No	Calibration Item	Calibration Due	Calibration Certification Number
Sound Level Meter	Norsonic 140	1403216	BS7580	01/03/2025	U43516
			1/3 Octave	01/03/2025	U43516
			Rev Time	01/03/2025	U43517
Calibrator	Norsonic 1251	31428	-	07/03/2025	U47061
Tapping Machine	Sound Solutions Series 2	TP02346	-	29/09/2025	U45448
Hemi-Dodecahedron Loudspeaker	Norsonic 250	31443/31475	-	-	-
Power Amplifier	Norsonic 280	2803672/2803794	-	-	-

5 WALL SOUND INSULATION PERFORMANCE

5.1 Wall Construction Details

The separating wall construction is understood to be constructed of the following layers as advised by Liam Russell Architects with:

- Xella Silka Kicker Blocks (214mm)
- Plaster skim and paint finish either side (3mm)

5.2 Wall Sound Insulation Performance

Airborne test results on the wall construction are summarised below in Table 5.1. The full details are presented in Appendix B.

Table 5.1: Airborne Sound Insulation of Separating Walls

Test No.	Source Room	Receiving Room	$D_{nT,w}$ + C_{tr} dB	ADE Criteria $D_{nT,w}+C_{tr}$ dB (MIN LEVEL)	ADE Pass/ Fail
2	4th Floor, Plot B2.04.F01, Living Room/Kitchen	4th Floor, Plot B2.04.F02, Living Room/Kitchen	**53**	45	**Pass**
4	2nd Floor, Plot B2.03.F02, Living Room/Kitchen	2nd Floor, Plot B2.03.F01, Living Room/Kitchen	**53**	45	**Pass**
6	2nd Floor, Plot B2.02.F02, Living Room/Kitchen	2nd Floor, Plot B2.02.F01, Living Room/Kitchen	**57**	45	**Pass**
10	4th Floor, Plot B1.04.F03, Living Room/Kitchen	4th Floor, Plot B1.04.F04, Bedroom 1	**53**	45	**Pass**
15	3rd Floor, Plot B1.03.F02, Living Room/Kitchen	3rd Floor, Plot B1.03.F01, Living Room/Kitchen	**53**	45	**Pass**
20	2nd Floor, Plot B1.02.F07, Living Room/Kitchen	2nd Floor, Plot B1.02.F06, Bedroom 2	**50**	45	**Pass**
21	2nd Floor, Plot B1.02.F03, Living Room/Kitchen	2nd Floor, Plot B1.02.F04, Bedroom 1	**54**	45	**Pass**
24	1st Floor, Plot B1.01.F03, Living Room/Kitchen	1st Floor, Plot B1.01.F04, Bedroom 1	**54**	45	**Pass**
27	1st Floor, Plot B1.01.F07, Bedroom 1	1st Floor, Plot B1.01.F06, Bedroom 2	**52**	45	**Pass**
30	Ground Floor, Plot B1.00.F02, Bedroom 1	Ground Floor, Plot B1.00.F01, Bedroom 2	**51**	45	**Pass**

6 FLOOR SOUND INSULATION PERFORMANCE

6.1 Floor Construction Details

The separating floor construction is understood to be constructed of the following layers as advised by Liam Russell Architects with:

- Floor finish vinyl in kitchens only and exposed screed in bedrooms
- Fibre reinforced concrete screed (75mm)
- Yelofon HD10 Acoustic Separation Layer (10mm) including an Acoustic Flanking strip taped
- Concrete slab (150mm)
- A service zone and a suspended ceiling below (gap of minimum of 150mm)

6.2 Floor Sound Insulation Performance

Airborne test results on the floor construction are summarised in Table 6.1. Full details are presented in Appendix B.

Table 6.1: Airborne Sound Insulation of Separating Floors

Test No.	Source Room	Receiving Room	$D_{nT,w}$ + C_{tr} dB	ADE Criteria $D_{nT,w}+C_{tr}$ dB (Min level)	ADE Pass/ Fail
3	3rd Floor, Plot B2.03.F04, Living Room/Kitchen	4th Floor, Plot B2.04.F02, Living Room/Kitchen	**55**	45	**Pass**
7	2nd Floor, Plot B2.02.F01, Living Room/Kitchen	3rd Floor, Plot B2.03.F01, Living Room/Kitchen	**53**	45	**Pass**
9	1st Floor, Plot B2.01.F01, Bedroom	2nd Floor, Plot B2.02.F01, Bedroom	**52**	45	**Pass**
12	3rd Floor, Plot B1.03.F04, Bedroom 1	4th Floor, Plot B1.04.F04, Bedroom 1	**53**	45	**Pass**
13	2nd Floor, Plot B2.02.F04, Bedroom 1	3rd Floor, Plot B1.03.F04, Bedroom 1	**54**	45	**Pass**
16	2nd Floor, Plot B1.02.F01, Living Room/Kitchen	3rd Floor, Plot B1.03.F01, Living Room/Kitchen	**53**	45	**Pass**
18	2nd Floor, Plot B1.02.F06, Bedroom 2	3rd Floor, Plot B1.03.F06, Bedroom 2	**53**	45	**Pass**
22	1st Floor, Plot B1.01.F04, Bedroom 1	2nd Floor, Plot B1.02.F04, Bedroom 1	**53**	45	**Pass**
25	1st Floor, Plot B1.01.F06, Bedroom 2	2nd Floor, Plot B1. 02.F06, Bedroom 2	**51**	45	**Pass**
28	Ground Floor, Plot B1.00.F01, Bedroom 2	1st Floor, Plot B1.01.F06, Bedroom 2	**53**	45	**Pass**

Impact test results on the floor construction are summarised in Table 6.2. Full details are presented in Appendix B.

Table 6.2: Impact Sound Insulation of Separating Floors

Test No.	Source Room	Receiving Room	L'_{nTw} dB	ADE Criteria L'_{nTw} dB (Max. level)	ADE Pass/ Fail
1	4th Floor, Plot B2.04.F02, Living Room/Kitchen	3rd Floor, Plot B2.03.F04, Living Room/Kitchen	**39**	62	**Pass**
5	3rd Floor, Plot B2.03.F01, Living Room/Kitchen	2nd Floor, Plot B2.02.F01, Living Room/Kitchen	**54**	62	**Pass**
8	2nd Floor, Plot B2.02.F01, Bedroom	1st Floor, Plot B2.01.F01, Bedroom	**57**	62	**Pass**
11	4th Floor, Plot B1.04.F04, Bedroom 1	3rd Floor, Plot B1.03.F04, Bedroom 1	**59**	62	**Pass**
14	3rd Floor, Plot B1.03.F04, Bedroom 1	2nd Floor, Plot B1.02.F04, Bedroom 1	**58**	62	**Pass**
17	3rd Floor, Plot B1.03.F01, Living Room/Kitchen	2nd Floor, Plot B1.02.F01, Living Room/Kitchen	**49**	62	**Pass**
19	3rd Floor, Plot B1.03.F06, Bedroom 2	2nd Floor, Plot B1.02.F06, Bedroom 2	**59**	62	**Pass**
23	2nd Floor, Plot B1.02.F04, Bedroom 1	1st Floor, Plot B1.01.F04, Bedroom 1	**56**	62	**Pass**
26	2nd Floor, Plot B1.02.F06, Bedroom 2	1st Floor, Plot B1.01.F06, Bedroom 2	**56**	62	**Pass**
29	1st Floor, Plot B1.01.F06, Bedroom 2	Ground Floor, Plot B1.00.F01, Bedroom 2	**57**	62	**Pass**

7 CONCLUSIONS

The sound insulation performance of seperating walls and floors has been tested between sample rooms at the 11 and 15 Albion Street development in accordance with the requirements of ADE.

The results indicate that all tests comply with the numerical performance standards stated in ADE of the Building Regulations, as such it is considered that the requirements of Planning Condition 4 are also satisfied.

8 REFERENCES

1 The Building Regulations 2010. Approved Document E: Resistance to the Passage of Sound 2003 edition incorporating 2004 amendments.

2 BS EN ISO 140-4:1998: Field Measurements of Airborne Sound Insulation between Rooms.

3 BS EN ISO 717-1: 1997: Rating of Sound Insulation in Buildings and of Building Elements. Part 1: Airborne Sound Insulation. Incorporating Amendment No.1.

4 BS EN ISO 140-7: 1998: Field Measurements of Impact Insulation Between Rooms.

5 BS EN ISO 717-2: 1997: Rating of Sound Insulation in Buildings and of Building Elements. Part 2: Impact Sound Insulation. Incorporating Amendment No.1.

APPENDIX A

THE MEASUREMENT AND RATING OF SOUND INSULATION

A.1 AIRBORNE SOUND INSULATION

Airborne sound insulation is measured in accordance with BS EN ISO 140-4 [2] and rated in accordance with BS EN ISO 717-1 [3].

For airborne sound insulation tests, two Hemi Dodecahedral loudspeakers are placed in the “source room” which is normally the larger of the two rooms when measuring wall insulation or the lower of the two rooms when measuring floor insulation. The source noise level is then measured a minimum of five times, measuring each time in a different location. The room on the other side of the separating construction is the "receiver room" and the noise level transmitted through the separating element from the source room is then measured a minimum of five times measuring each time in a different location.

A minimum of six reverberation time measurements over three measurement locations are undertaken in the receiver room with two Hemi Dodecahedral loudspeakers operating simultaneously. Background noise measurements are also undertaken in the receiver room at 5 locations.

A difference in source and receiver noise levels is measured and calculated for each wall and floor in accordance with BS EN ISO 140-4. The resulting frequency dependent level differences are converted into "a single number characterising the acoustical performance" using the method given in BS EN ISO 717-1, namely the Weighted Standardised Level Difference ($D_{nT,w}$).

The C_{tr} is a spectral adaptation term which places more importance on the low frequency sound insulation of a building element. The term is added to the $D_{nT,w}$ value to provide the $D_{nT,w}+C_{tr}$ value. This is the rating value for sound insulation stated in Approved Document E 2003 of the Building Regulations.

A.2 IMPACT SOUND INSULATION

Impact sound insulation is measured in accordance with BS EN ISO 140-7 [4] and rated in accordance with BS EN ISO 717-2 [5].

For impact sound insulation tests, a standard tapping machine is placed on the floor above a receiving room with the orientation of the hammer line at 45° to the beams or ribs. The noise level from the machine tapping is then measured in the receiver room a minimum of two times measuring each time in a different location. The process is then repeated a further three times with the standard tapping machine rotated 90° and moved to a different position within the room. A total of eight measurements are conducted.

A minimum of six reverberation time measurements are undertaken in the receiver room as per the airborne measurements. Background noise measurements are also undertaken in the receiver room at 5 locations.

This level is measured and calculated for each floor in accordance with BS EN ISO 140-7. The results are converted into a single number using the method given in BS EN ISO 717-2 namely the Weighted Standardised Impact Sound Pressure Level ($L'_{nT,w}$).

A.4 ADE ANNEX B PROCEDURES

In addition to the British Standards, Section 2 of Annex B of the Approved Document E 2003 [1] stipulates additional procedures that should be carried out to ensure consistency and conservative results. Details of where these have not been complied with during the sound insulation testing are given in Table A.1.

Table A.1: Exceptions to the Procedures Described in Annex B of the Approved Document

Section of Annex B	Annex B Requirement	Details of Non-Compliance
B2.11	Rooms used for testing should have volumes of at least 25m^3.	Tests 18, 19, 20, 25, 26, 27, 28, 29 and 30 are not compliant with B2.11 as the room volumes are marginally lower than 25m^3. As such, we do not consider that this has had an adverse impact on the results.

APPENDIX B

SOUND INSULATION TEST RESULTS

Standardized impact sound pressure levels according to ISO140-7

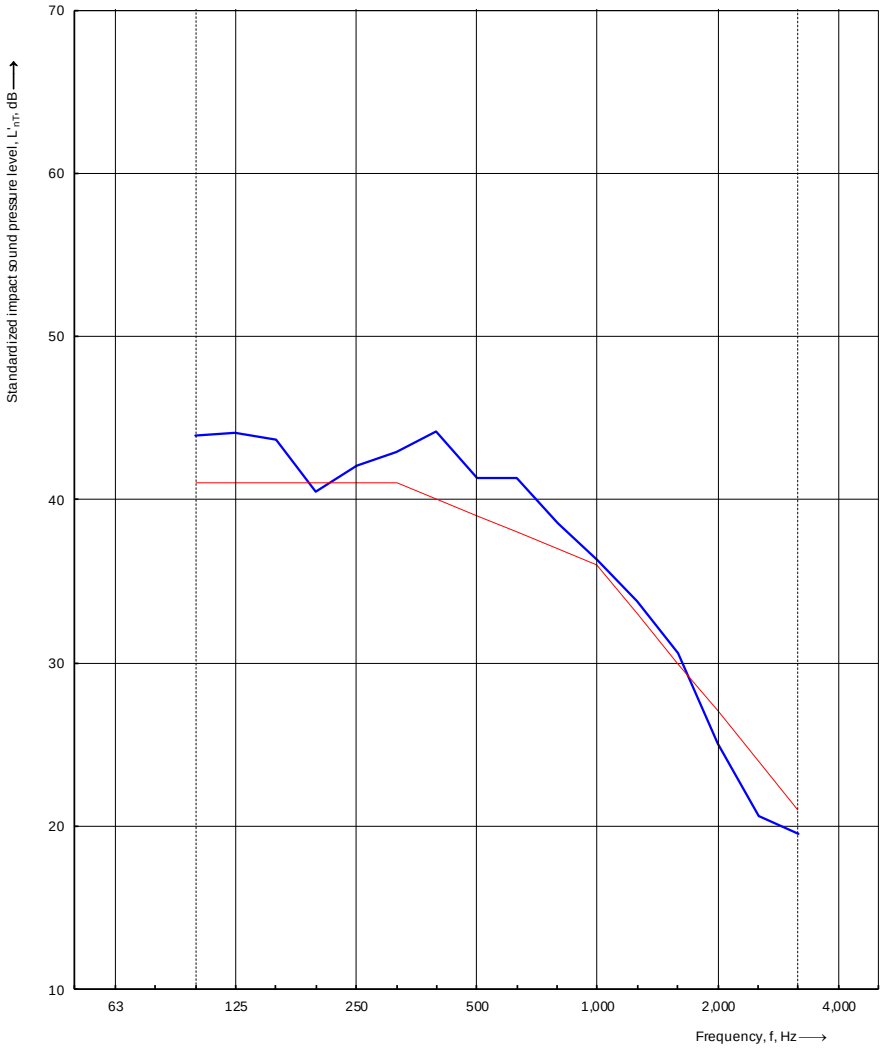
Field measurements of impact sound insulation of floors

Client:	Cheesmur Building Contractors	Date of test: 31st January 2025
Description	11 & 15 Albion Street	
	Dwelling - houses and flats formed by material change of use	
Object:	Floor	
Source room:	4th Floor, Plot B2.04.F02, Living Room/Kitchen	
Receiving room:	3rd Floor, Plot B2.03.F04, Living Room/Kitchen	

Source room volume :	52	m^3	Frequency range according to the
Receiving room volume :	65	m^3	curve of shifted reference values (ISO 717-2)
Area of partition :	21	m^2	L'_{nT}

Frequency f [Hz]	L'_{nT} 1/3 octave [dB]	
50		
63		
80		
100	43.9	
125	44.1	
160	43.7	
200	40.5	
250	42.1	
315	42.9	
400	44.2	
500	41.3	
630	41.3	
800	38.6	
1000	36.3	
1250	33.8	
1600	30.6	
2000	25.1	1
2500	20.6	1
3150	19.5	1
4000		
5000		

[1] Limit of measurement



Rating according to ISO 717-2

$L'_{nT,w}(C_I)$ = 39 (-1) dB

Evaluation based on field measurements results obtained in one-third-octave bands by an engineering method.

No. of test report:	1	Name of test institute:	Anderson Acoustics Ltd
Date:	21/02/2025	Signature:	[redacted]

Standardized level difference according to BS EN ISO 140-4

Field measurements of airborne sound insulation between rooms

Client: Cheesmur Building Contractors — Date of test: 31st January 2025

Description: 11 & 15 Albion Street

Dwelling - houses and flats formed by material change of use

Object: Wall

Source room: 4th Floor, Plot B2.04.F01, Living Room/Kitchen

Receiving room: 4th Floor, Plot B2.04.F02, Living Room/Kitchen

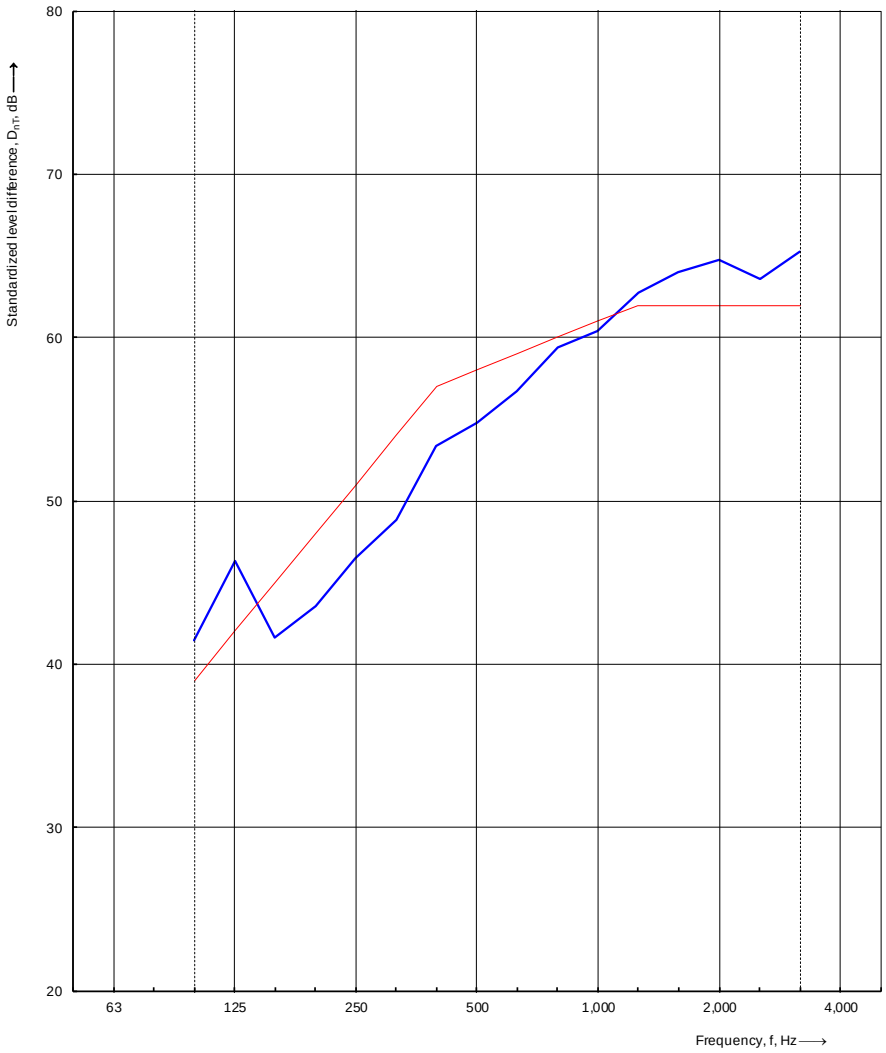
Source room volume :	50	m^3
Receiving room volume :	52	m^3
Area of partition :	8	m^2

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

D_{nT}

Frequency f [Hz]	D_{nT} 1/3 octave [dB]	
50		
63		
80		
100	41.5	
125	46.3	
160	41.6	
200	43.6	
250	46.5	
315	48.8	
400	53.4	
500	54.8	
630	56.7	
800	59.4	1
1000	60.4	1
1250	62.8	1
1600	64.0	1
2000	64.8	
2500	63.6	
3150	65.3	
4000		
5000		

[1] Limit of measurement



Rating according to ISO 717-1

$D_{nT,w}(C;C_{tr})$ = 58 (-2 ; -5) dB

$D_{nT,w} + C_{tr}$ = 53 dB

Evaluation based on field measurements results obtained in one-third-octave bands by an engineering method.

No. of test report: 2 — Name of test institute: Anderson Acoustics Ltd

Date: 21/02/2025 — Signature: [redacted]

Standardized level difference according to BS EN ISO 140-4

Field measurements of airborne sound insulation between rooms

Client: Cheesmur Building Contractors — Date of test: 31st January 2025

Description: 11 & 15 Albion Street

Dwelling - houses and flats formed by material change of use

Object: Floor

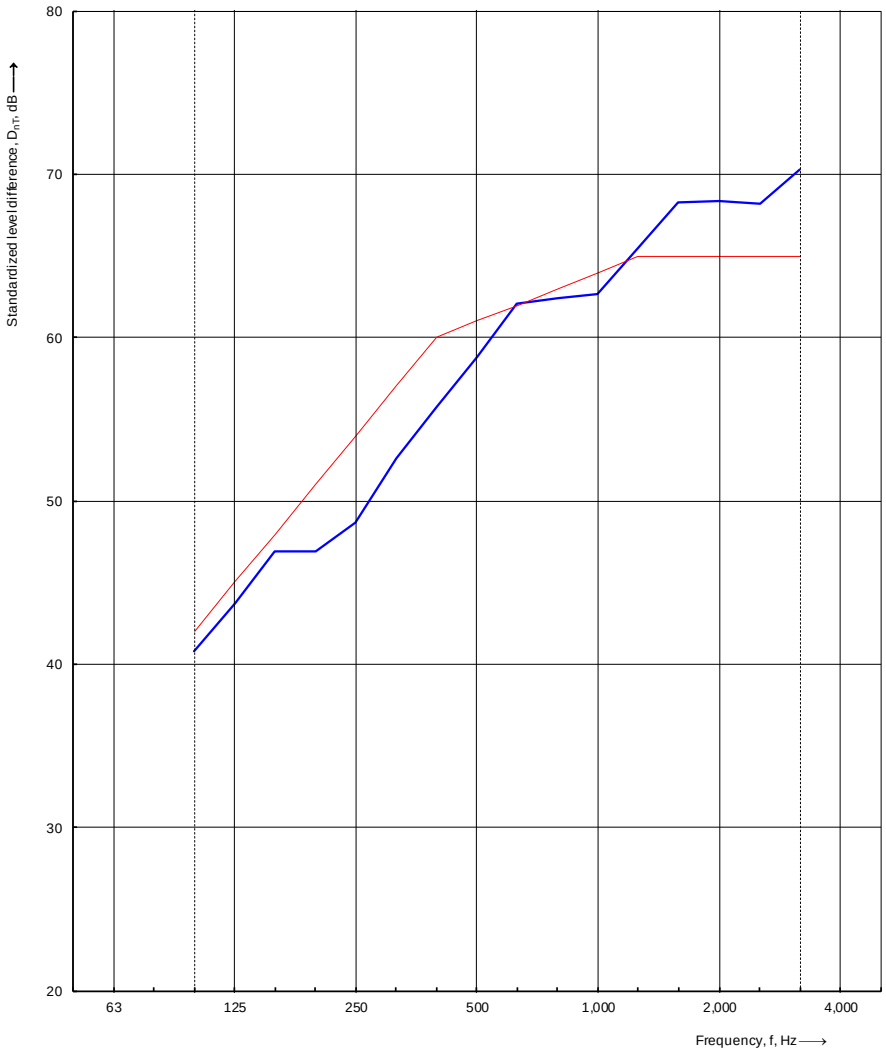
Source room: 3rd Floor, Plot B2.03.F04, Living Room/Kitchen

Receiving room: 4th Floor, Plot B2.04.F02, Living Room/Kitchen

Source room volume :	65	m^3	Frequency range according to the
Receiving room volume :	52	m^3	curve of shifted reference values (ISO 717-1)
Area of partition :	21	m^2	D_{nT}

Frequency f [Hz]	D_{nT} 1/3 octave [dB]	
50		
63		
80		
100	40.8	
125	43.7	
160	46.9	
200	46.9	
250	48.7	
315	52.6	
400	55.7	
500	58.8	
630	62.1	1
800	62.4	1
1000	62.7	1
1250	65.5	1
1600	68.3	1
2000	68.4	1
2500	68.2	1
3150	70.3	1
4000		
5000		

[1] Limit of measurement



Rating according to ISO 717-1

$D_{nT,w}(C;C_{tr})$ = 61 (-2 ; -6) dB

$D_{nT,w+}$ C_{tr} = 55 dB

Evaluation based on field measurements results obtained in one-third-octave bands by an engineering method.

No. of test report: 3 — Name of test institute: Anderson Acoustics Ltd

Date: 21/02/2025 — Signature: [redacted]

Standardized level difference according to BS EN ISO 140-4

Field measurements of airborne sound insulation between rooms

Client: Cheesmur Building Contractors — Date of test: 31st January 2025

Description: 11 & 15 Albion Street

Dwelling - houses and flats formed by material change of use

Object: Wall

Source room: 2nd Floor, Plot B2.03.F02, Living Room/Kitchen

Receiving room: 2nd Floor, Plot B2.03.F01, Living Room/Kitchen

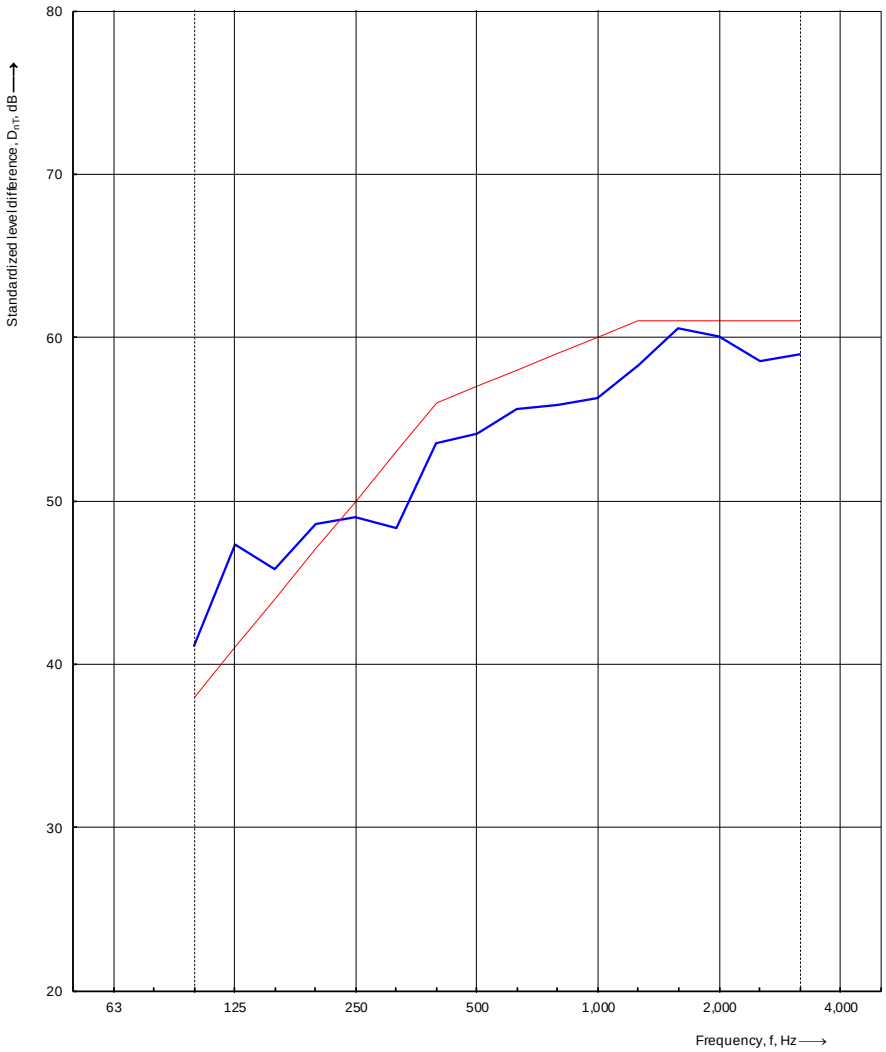
Source room volume :	62	m^3
Receiving room volume :	50	m^3
Area of partition :	5	m^2

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

D_{nT}

Frequency f [Hz]	D_{nT} 1/3 octave [dB]	
50		
63		
80		
100	41.1	
125	47.3	
160	45.8	
200	48.6	
250	49.0	
315	48.3	
400	53.5	1
500	54.1	
630	55.6	1
800	55.9	
1000	56.3	
1250	58.3	
1600	60.6	
2000	60.1	
2500	58.6	
3150	59.0	
4000		
5000		

[1] Limit of measurement



Rating according to ISO 717-1

$D_{nT,w}(C;C_{tr})$ = 57 (-1 ; -4) dB

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

Evaluation based on field measurements results obtained in one-third-octave bands by an engineering method.

No. of test report: 4 — Name of test institute: Anderson Acoustics Ltd

Date: 21/02/2025 — Signature: [redacted]

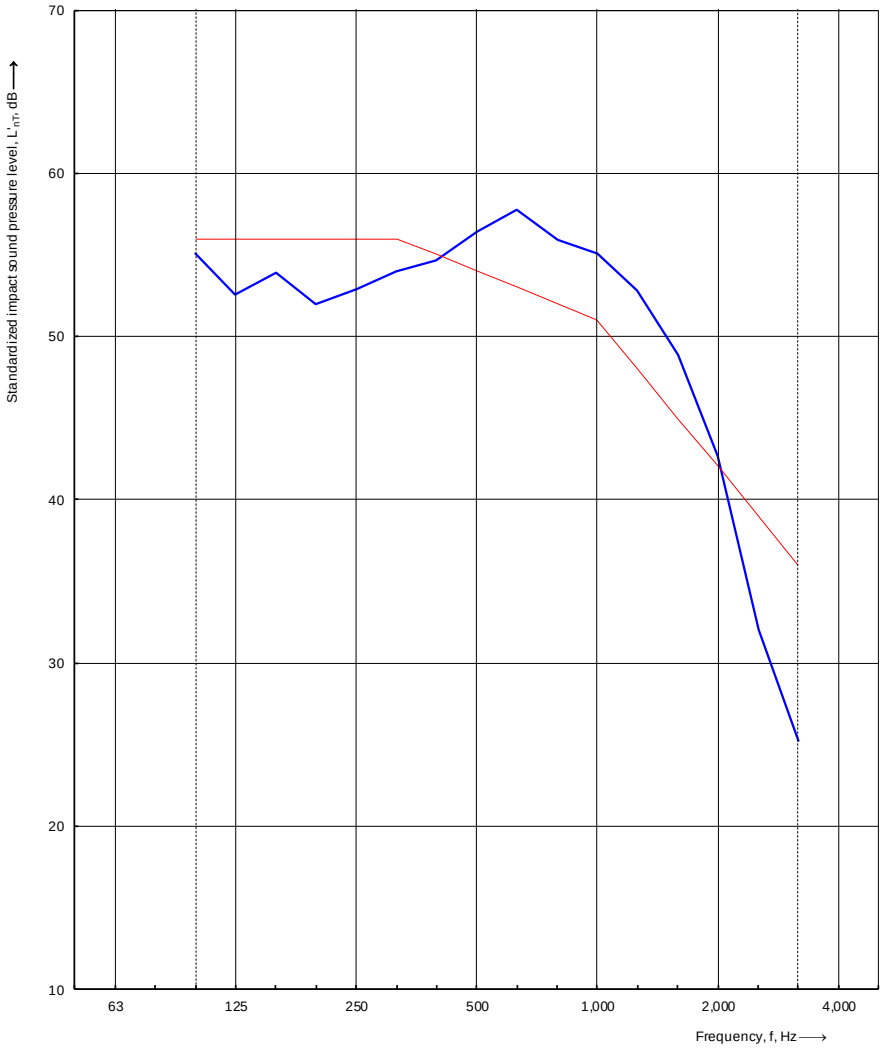
Standardized impact sound pressure levels according to ISO140-7

Field measurements of impact sound insulation of floors

Client:	Cheesmur Building Contractors	Date of test: 31st January 2025
Description	11 & 15 Albion Street	
	Dwelling - houses and flats formed by material change of use	
Object:	Floor	
Source room:	3rd Floor, Plot B2.03.F01, Living Room/Kitchen	
Receiving room:	2nd Floor, Plot B2.02.F01, Living Room/Kitchen	

Source room volume :	50	m^3	- - - - - - -	Frequency range according to the
Receiving room volume :	50	m^3	———	curve of shifted reference values (ISO 717-2)
Area of partition :	20	m^2	———	L'_{nT}

Frequency f [Hz]	L'_{nT} 1/3 octave [dB]
50	
63	
80	
100	55.1
125	52.6
160	53.9
200	52.0
250	52.9
315	54.0
400	54.7
500	56.4
630	57.8
800	55.9
1000	55.1
1250	52.8
1600	48.9
2000	42.7
2500	32.0
3150	25.2
4000	
5000	



Rating according to ISO 717-2

$L'_{nT,w}(C_I)$ = 54 (-3) dB

Evaluation based on field measurements results obtained in one-third-octave bands by an engineering method.

No. of test report:	5	Name of test institute:	Anderson Acoustics Ltd
Date:	21/02/2025	Signature:	[redacted]

Standardized level difference according to BS EN ISO 140-4

Field measurements of airborne sound insulation between rooms

Client: Cheesmur Building Contractors — Date of test: 31st January 2025

Description: 11 & 15 Albion Street

Dwelling - houses and flats formed by material change of use

Object: Wall

Source room: 2nd Floor, Plot B2.02.F02, Living Room/Kitchen

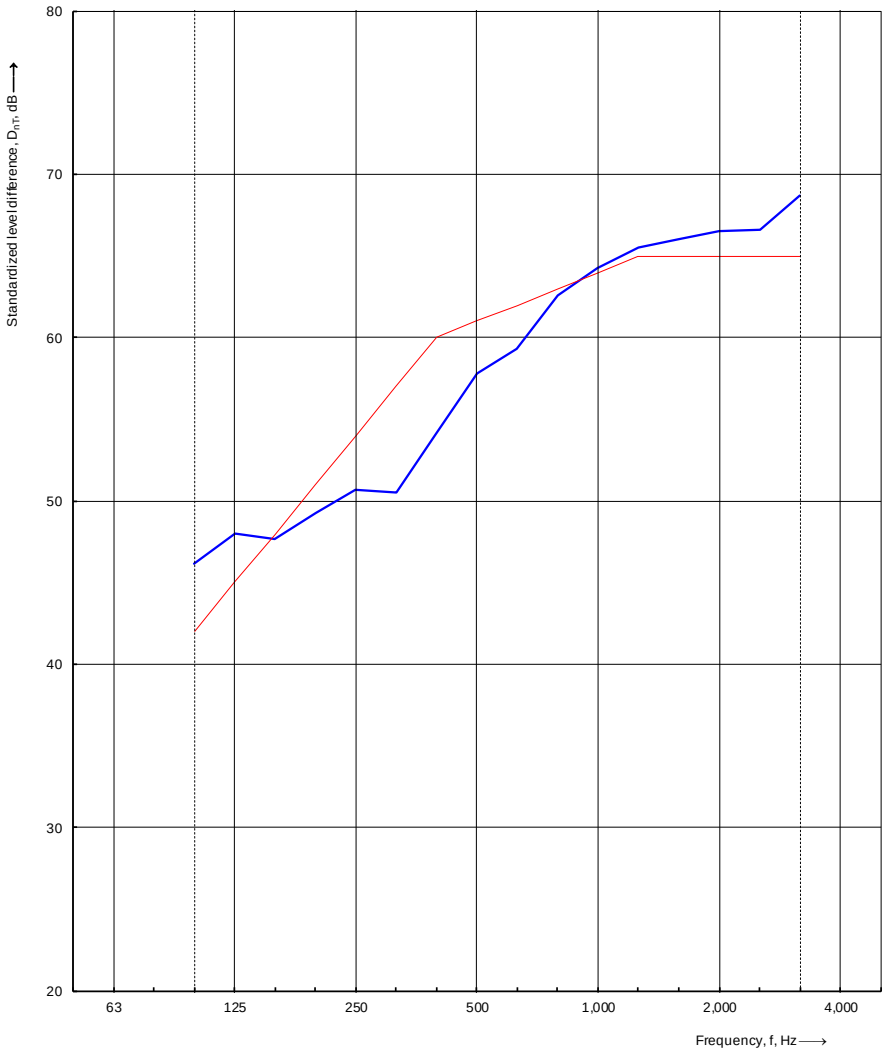
Receiving room: 2nd Floor, Plot B2.02.F01, Living Room/Kitchen

Source room volume :	62	m^3
Receiving room volume :	50	m^3
Area of partition :	5	m^2

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

D_{nT}

Frequency f [Hz]	D_{nT} 1/3 octave [dB]
50	
63	
80	
100	46.2
125	48.0
160	47.7
200	49.3
250	50.7
315	50.5
400	54.1
500	57.8
630	59.3
800	62.6
1000	64.3
1250	65.5
1600	66.0
2000	66.5
2500	66.6
3150	68.7
4000	
5000	



Rating according to ISO 717-1

$D_{nT,w}(C;C_{tr})$ = 61 (-1 ; -4) dB

$D_{nT,w} + C_{tr}$ = 57 dB

Evaluation based on field measurements results obtained in one-third-octave bands by an engineering method.

No. of test report: 6 — Name of test institute: Anderson Acoustics Ltd

Date: 21/02/2025 — Signature: [redacted]

Standardized level difference according to BS EN ISO 140-4

Field measurements of airborne sound insulation between rooms

Client: Cheesmur Building Contractors — Date of test: 31st January 2025

Description: 11 & 15 Albion Street
Dwelling - houses and flats formed by material change of use

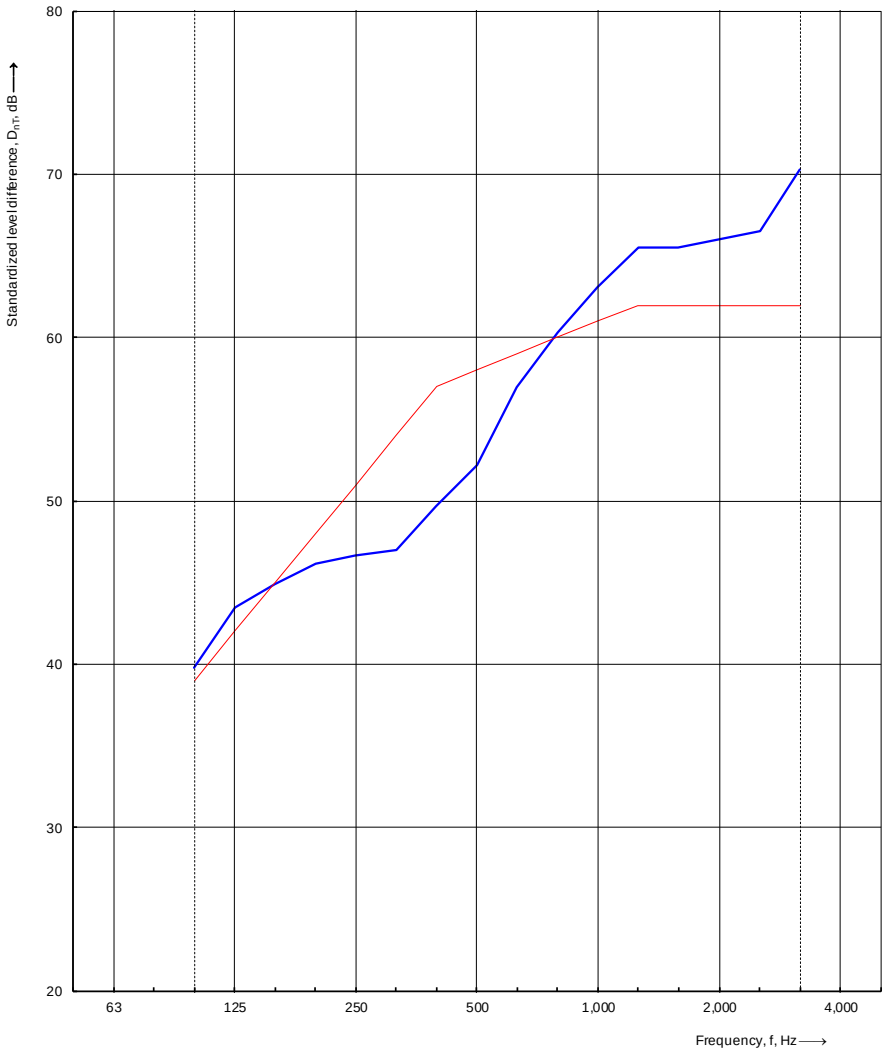
Object: Floor
Source room: 2nd Floor, Plot B2.02.F01, Living Room/Kitchen
Receiving room: 3rd Floor, Plot B2.03.F01, Living Room/Kitchen

Source room volume :	50	m^3
Receiving room volume :	50	m^3
Area of partition :	20	m^2

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

Frequency f [Hz]	D_{nT} 1/3 octave [dB]	
50		
63		
80		
100	39.8	
125	43.5	
160	44.9	
200	46.2	
250	46.7	
315	47.0	
400	49.7	
500	52.2	
630	57.0	
800	60.3	1
1000	63.1	1
1250	65.5	1
1600	65.5	1
2000	66.0	1
2500	66.5	1
3150	70.3	1
4000		
5000		

[1] Limit of measurement



Rating according to ISO 717-1
$D_{nT,w}(C;C_{tr})$ = 58 (-2 ; -5) dB
$D_{nT,w+}\ C_{tr}$ = 53 dB

Evaluation based on field measurements results obtained in one-third-octave bands by an engineering method.

No. of test report: 7 — Name of test institute: Anderson Acoustics Ltd

Date: 21/02/2025 — Signature: [redacted]

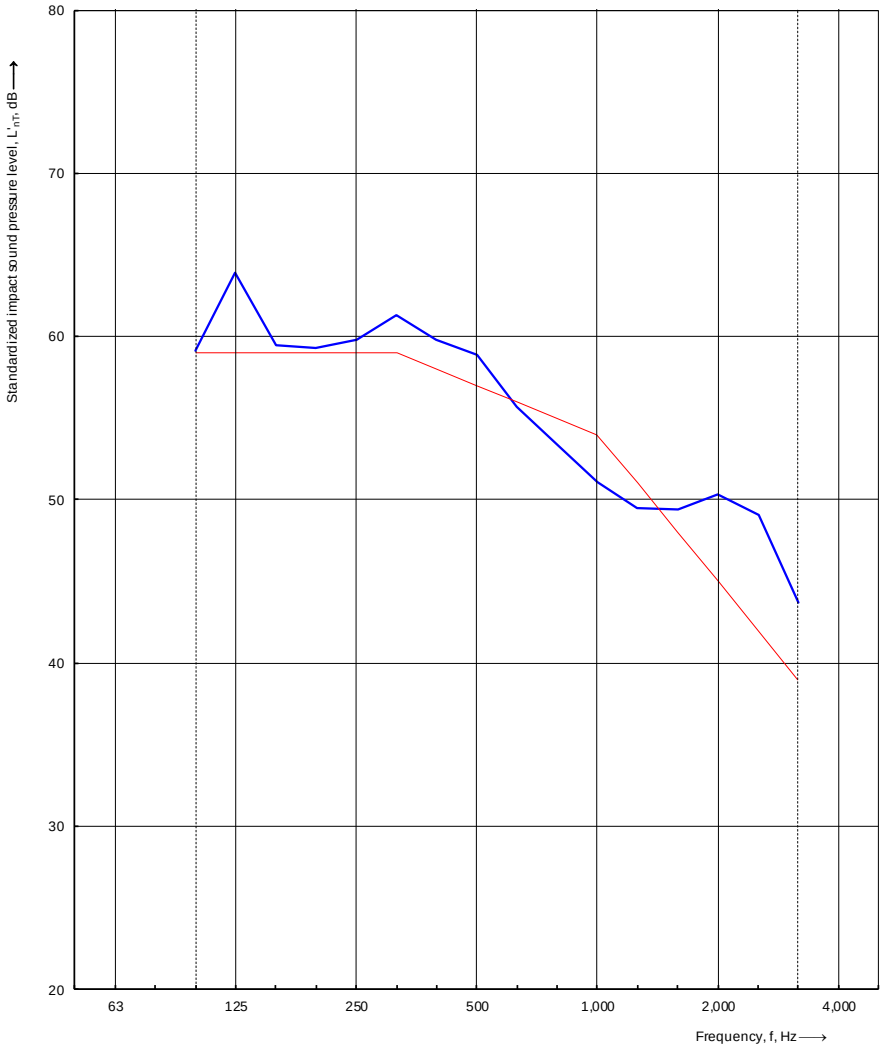
Standardized impact sound pressure levels according to ISO140-7

Field measurements of impact sound insulation of floors

Client:	Cheesmur Building Contractors	Date of test: 31st January 2025
Description	11 & 15 Albion Street	
	Dwelling - houses and flats formed by material change of use	
Object:	Floor	
Source room:	2nd Floor, Plot B2.02.F01, Bedroom	
Receiving room:	1st Floor, Plot B2.01.F01, Bedroom	

Source room volume :	34	m^3	- - - - - - -	Frequency range according to the
Receiving room volume :	34	m^3	———	curve of shifted reference values (ISO 717-2)
Area of partition :	14	m^2	———	L'_{nT}

Frequency f [Hz]	L'_{nT} 1/3 octave [dB]
50	
63	
80	
100	59.1
125	63.9
160	59.5
200	59.3
250	59.8
315	61.3
400	59.8
500	58.9
630	55.7
800	53.3
1000	51.1
1250	49.5
1600	49.4
2000	50.3
2500	49.1
3150	43.7
4000	
5000	



Rating according to ISO 717-2

$L'_{nT,w}(C_I)$ = 57 (-2) dB

Evaluation based on field measurements results obtained in one-third-octave bands by an engineering method.

No. of test report:	8	Name of test institute:	Anderson Acoustics Ltd
Date:	21/02/2025	Signature:	[redacted]

Standardized level difference according to BS EN ISO 140-4

Field measurements of airborne sound insulation between rooms

Client: Cheesmur Building Contractors — Date of test: 31st January 2025

Description: 11 & 15 Albion Street

Dwelling - houses and flats formed by material change of use

Object: Floor

Source room: 1st Floor, Plot B2.01.F01, Bedroom

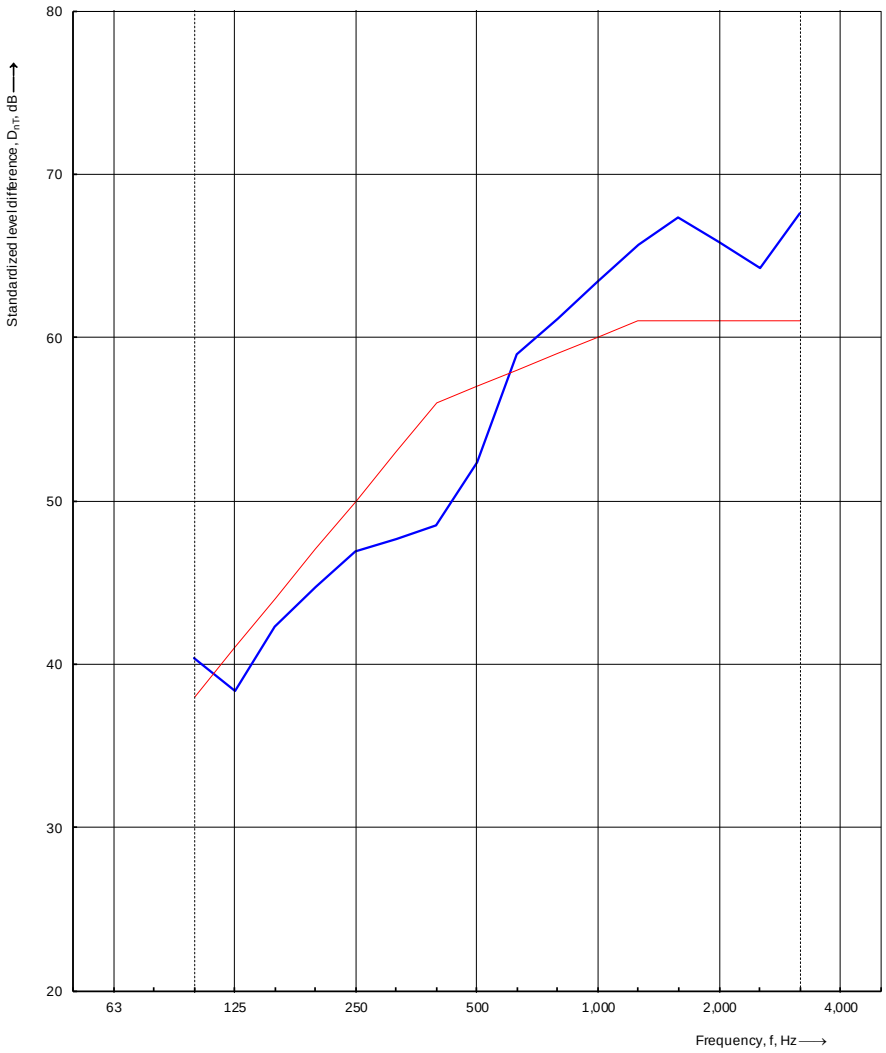
Receiving room: 2nd Floor, Plot B2.02.F01, Bedroom

Source room volume :	34	m^3
Receiving room volume :	34	m^3
Area of partition :	14	m^2

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

D_{nT}

Frequency f [Hz]	D_{nT} 1/3 octave [dB]
50	
63	
80	
100	40.4
125	38.4
160	42.3
200	44.7
250	46.9
315	47.7
400	48.5
500	52.4
630	59.0
800	61.2
1000	63.4
1250	65.7
1600	67.4
2000	65.9
2500	64.3
3150	67.6
4000	
5000	



Rating according to ISO 717-1

$D_{nT,w}(C;C_{tr})$ = 57 (-1 ; -5) dB

$D_{nT,w} + C_{tr}$ = 52 dB

Evaluation based on field measurements results obtained in one-third-octave bands by an engineering method.

No. of test report: 9 — Name of test institute: Anderson Acoustics Ltd

Date: 21/02/2025 — Signature: [redacted]

Standardized level difference according to BS EN ISO 140-4

Field measurements of airborne sound insulation between rooms

Client: Cheesmur Building Contractors — Date of test: 31st January 2025

Description: 11 & 15 Albion Street

Dwelling - houses and flats formed by material change of use

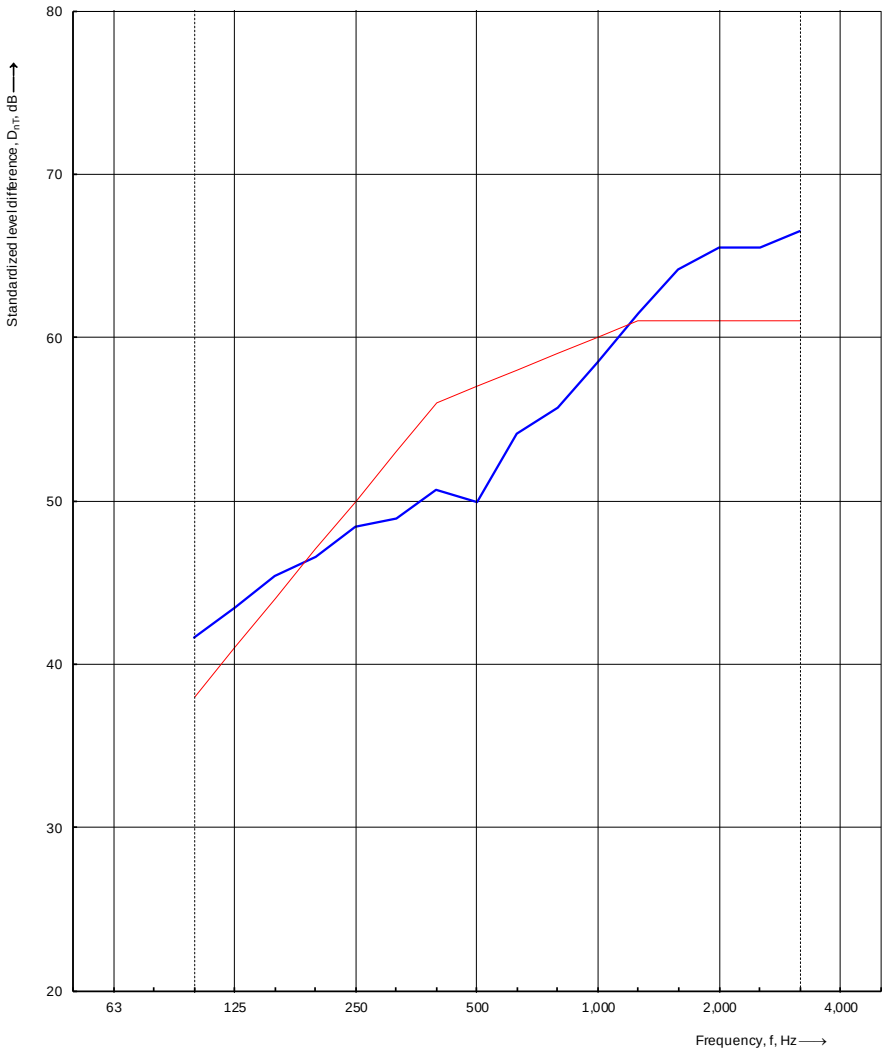
Object: Wall

Source room: 4th Floor, Plot B1.04.F03, Living Room/Kitchen

Receiving room: 4th Floor, Plot B1.04.F04, Bedroom 1

Source room volume :	64	m^3	Frequency range according to the
Receiving room volume :	28	m^3	curve of shifted reference values (ISO 717-1)
Area of partition :	8	m^2	D_{nT}

Frequency f [Hz]	D_{nT} 1/3 octave [dB]
50	
63	
80	
100	41.6
125	43.5
160	45.4
200	46.6
250	48.4
315	48.9
400	50.7
500	49.9
630	54.1
800	55.7
1000	58.5
1250	61.5
1600	64.2
2000	65.5
2500	65.5
3150	66.5
4000	
5000	



Rating according to ISO 717-1

$D_{nT,w}(C;C_{tr})$ = 57 (-1 ; -4) dB

$D_{nT,w} + C_{tr}$ = 53 dB

Evaluation based on field measurements results obtained in one-third-octave bands by an engineering method.

No. of test report: 10

Name of test institute: Anderson Acoustics Ltd

Date: 21/02/2025

Signature: [redacted]

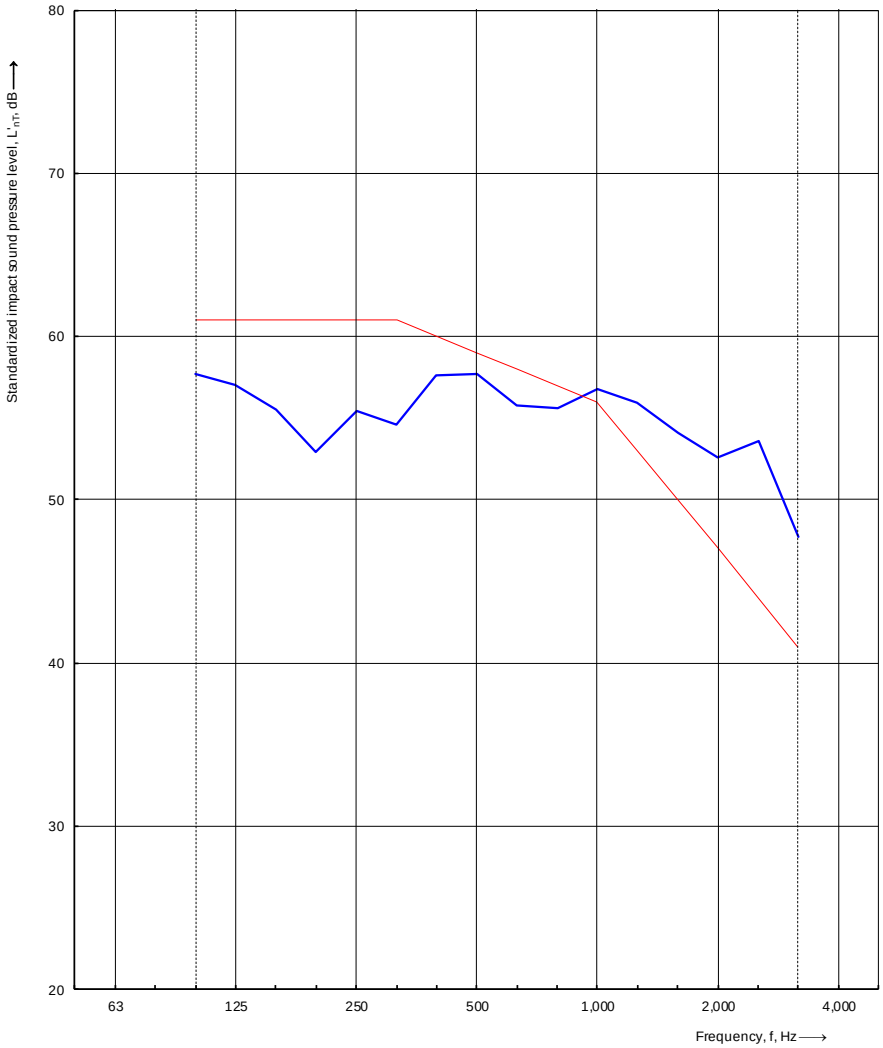
Standardized impact sound pressure levels according to ISO140-7

Field measurements of impact sound insulation of floors

Client:	Cheesmur Building Contractors	Date of test: 31st January 2025
Description	11 & 15 Albion Street	
	Dwelling - houses and flats formed by material change of use	
Object:	Floor	
Source room:	4th Floor, Plot B1.04.F04, Bedroom 1	
Receiving room:	3rd Floor, Plot B1.03.F04, Bedroom 1	

Source room volume :	28	m^3	- - - - - - -	Frequency range according to the
Receiving room volume :	28	m^3	———	curve of shifted reference values (ISO 717-2)
Area of partition :	11	m^2	———	L'_{nT}

Frequency f [Hz]	L'_{nT} 1/3 octave [dB]
50	
63	
80	
100	57.7
125	57.0
160	55.5
200	52.9
250	55.4
315	54.6
400	57.6
500	57.7
630	55.8
800	55.6
1000	56.8
1250	55.9
1600	54.1
2000	52.6
2500	53.6
3150	47.7
4000	
5000	



Rating according to ISO 717-2

$L'_{nT,w}(C_I)$ = 59 (-6) dB

Evaluation based on field measurements results obtained in one-third-octave bands by an engineering method.

No. of test report:	11	Name of test institute:	Anderson Acoustics Ltd
Date:	21/02/2025	Signature:	[redacted]

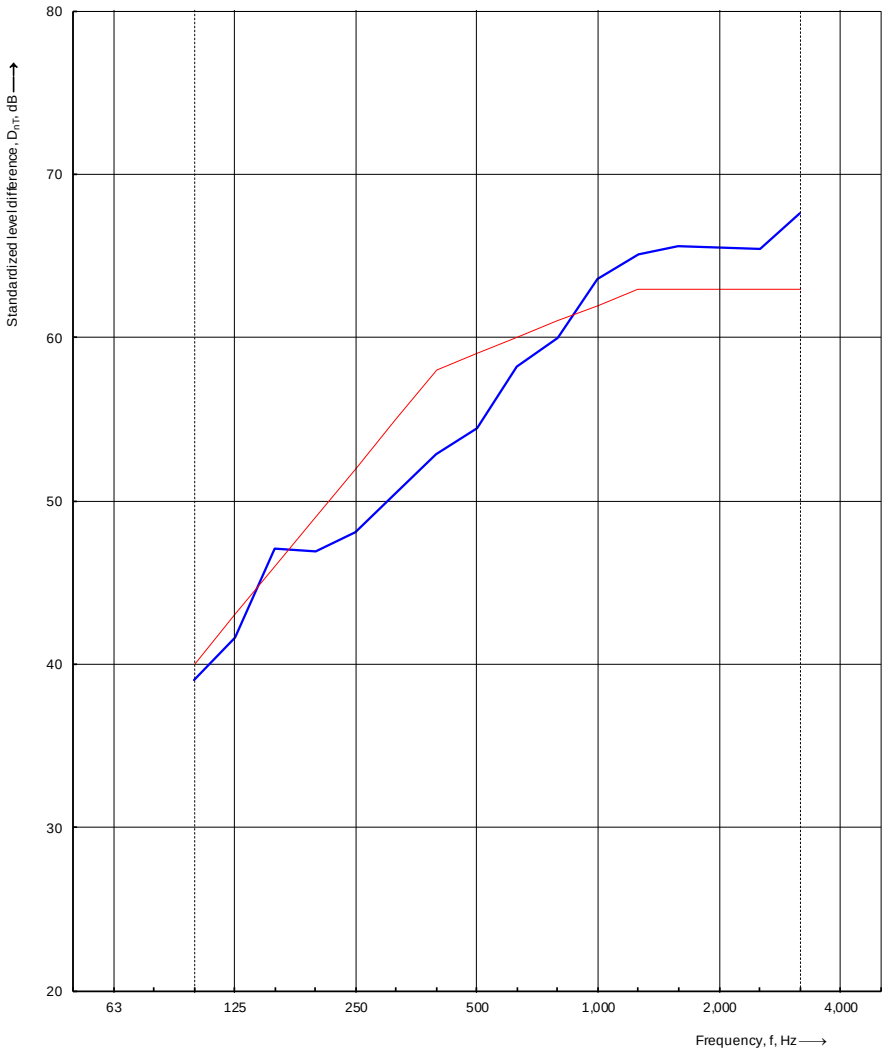
Standardized level difference according to BS EN ISO 140-4

Field measurements of airborne sound insulation between rooms

Client:	Cheesmur Building Contractors	Date of test: 31st January 2025
Description	11 & 15 Albion Street	
	Dwelling - houses and flats formed by material change of use	
Object:	Floor	
Source room:	3rd Floor, Plot B1.03.F04, Bedroom 1	
Receiving room:	4th Floor, Plot B1.04.F04, Bedroom 1	

Source room volume :	28	m^3	Frequency range according to the
Receiving room volume :	28	m^3	curve of shifted reference values (ISO 717-1)
Area of partition :	11	m^2	D_{nT}

Frequency f [Hz]	D_{nT} 1/3 octave [dB]
50	
63	
80	
100	39.0
125	41.6
160	47.1
200	46.9
250	48.1
315	50.5
400	52.9
500	54.5
630	58.2
800	60.0
1000	63.6
1250	65.1
1600	65.6
2000	65.5
2500	65.4
3150	67.6
4000	
5000	



Rating according to ISO 717-1

$D_{nT,w}(C;C_{tr})$ = 59 (-1 ; -6) dB

$D_{nT,w} + C_{tr}$ = 53 dB

Evaluation based on field measurements results obtained in one-third-octave bands by an engineering method.

No. of test report:	12	Name of test institute:	Anderson Acoustics Ltd
Date:	21/02/2025	Signature:	[redacted]

Standardized level difference according to BS EN ISO 140-4

Field measurements of airborne sound insulation between rooms

Client: Cheesmur Building Contractors — Date of test: 31st January 2025

Description: 11 & 15 Albion Street

Dwelling - houses and flats formed by material change of use

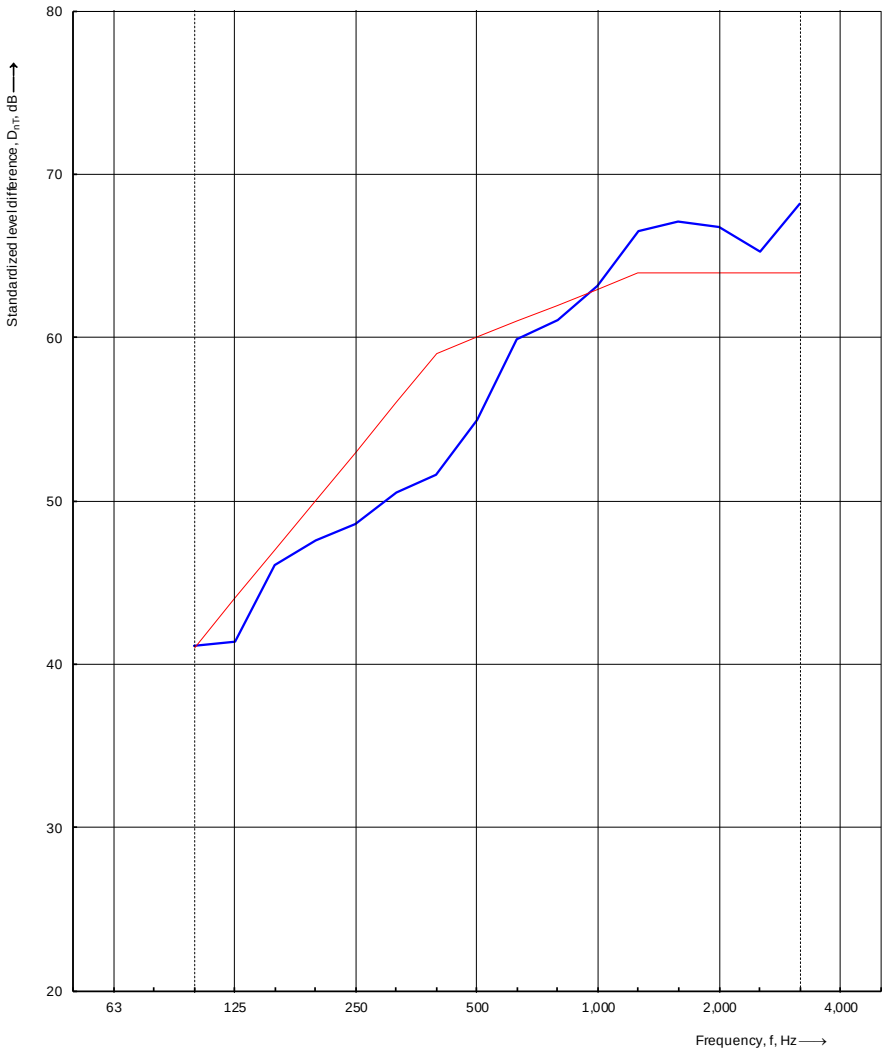
Object: Floor

Source room: 2nd Floor, Plot B2.02.F04, Bedroom 1

Receiving room: 3rd Floor, Plot B1.03.F04, Bedroom 1

Source room volume :	28	m^3	Frequency range according to the
Receiving room volume :	28	m^3	curve of shifted reference values (ISO 717-1)
Area of partition :	11	m^2	D_{nT}

Frequency f [Hz]	D_{nT} 1/3 octave [dB]
50	
63	
80	
100	41.1
125	41.4
160	46.1
200	47.6
250	48.6
315	50.5
400	51.6
500	55.0
630	59.9
800	61.1
1000	63.2
1250	66.5
1600	67.1
2000	66.8
2500	65.3
3150	68.2
4000	
5000	



Rating according to ISO 717-1

$D_{nT,w}(C;C_{tr})$ = 60 (-2 ; -6) dB

$D_{nT,w} + C_{tr}$ = 54 dB

Evaluation based on field measurements results obtained in one-third-octave bands by an engineering method.

No. of test report: 13 — Name of test institute: Anderson Acoustics Ltd

Date: 21/02/2025 — Signature: [redacted]

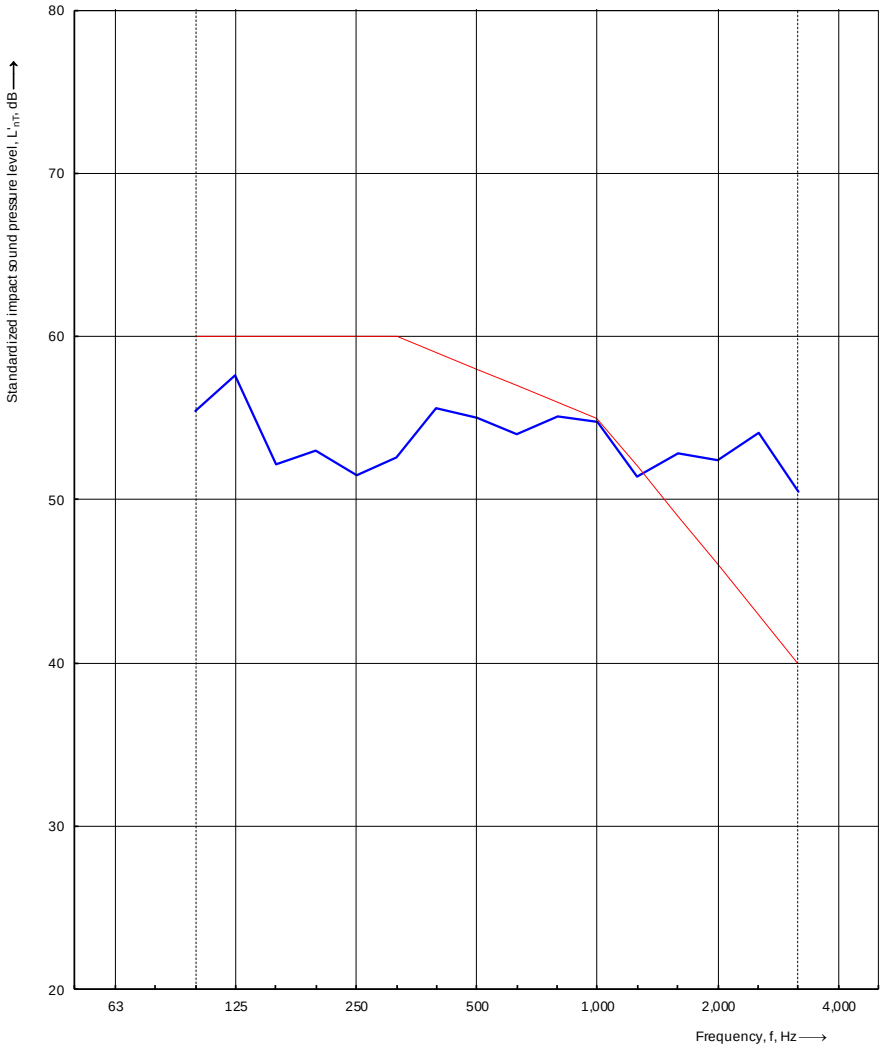
Standardized impact sound pressure levels according to ISO140-7

Field measurements of impact sound insulation of floors

Client:	Cheesmur Building Contractors	Date of test: 31st January 2025
Description	11 & 15 Albion Street	
	Dwelling - houses and flats formed by material change of use	
Object:	Floor	
Source room:	3rd Floor, Plot B1.03.F04, Bedroom 1	
Receiving room:	2nd Floor, Plot B1.02.F04, Bedroom 1	

Source room volume :	28	m^3	Frequency range according to the
Receiving room volume :	28	m^3	curve of shifted reference values (ISO 717-2)
Area of partition :	11	m^2	L'_{nT}

Frequency f [Hz]	L'_{nT} 1/3 octave [dB]
50	
63	
80	
100	55.4
125	57.6
160	52.2
200	53.0
250	51.5
315	52.6
400	55.6
500	55.0
630	54.0
800	55.1
1000	54.8
1250	51.4
1600	52.8
2000	52.4
2500	54.1
3150	50.5
4000	
5000	



Rating according to ISO 717-2

$L'_{nT,w}(C_I)$ = 58 (-7) dB

Evaluation based on field measurements results obtained in one-third-octave bands by an engineering method.

No. of test report:	14	Name of test institute:	Anderson Acoustics Ltd
Date:	21/02/2025	Signature:	[redacted]

Standardized level difference according to BS EN ISO 140-4

Field measurements of airborne sound insulation between rooms

Client: Cheesmur Building Contractors — Date of test: 31st January 2025

Description: 11 & 15 Albion Street

Dwelling - houses and flats formed by material change of use

Object: Wall

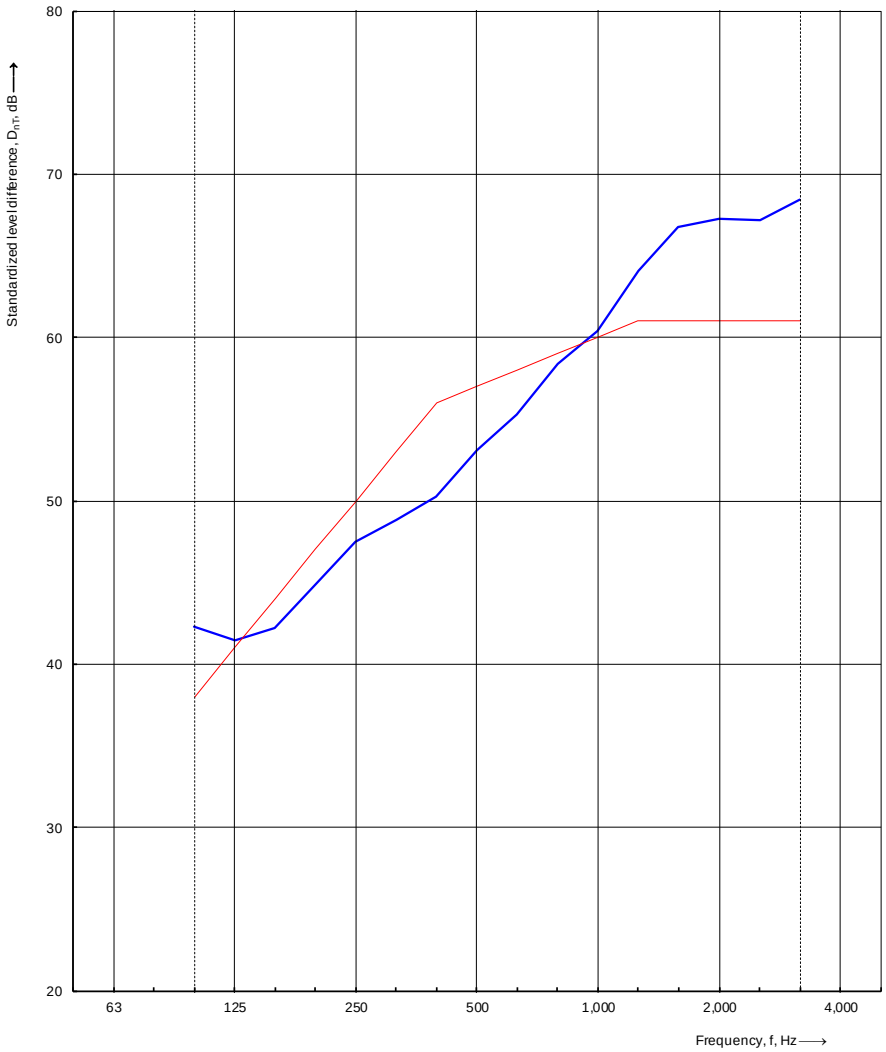
Source room: 3rd Floor, Plot B1.03.F02, Living Room/Kitchen

Receiving room: 3rd Floor, Plot B1.03.F01, Living Room/Kitchen

Source room volume :	72	m^3	Frequency range according to the
Receiving room volume :	65	m^3	curve of shifted reference values (ISO 717-1)
Area of partition :	11	m^2	D_{nT}

Frequency f [Hz]	D_{nT} 1/3 octave [dB]	
50		
63		
80		
100	42.3	
125	41.5	
160	42.2	
200	44.9	
250	47.5	
315	48.8	
400	50.3	
500	53.1	
630	55.3	
800	58.4	1
1000	60.4	1
1250	64.1	
1600	66.8	1
2000	67.3	1
2500	67.2	
3150	68.5	
4000		
5000		

[1] Limit of measurement



Rating according to ISO 717-1

$D_{nT,w}(C;C_{tr})$ = 57 (-1 ; -4) dB

$D_{nT,w} + C_{tr}$ = 53 dB

Evaluation based on field measurements results obtained in one-third-octave bands by an engineering method.

No. of test report: 15 — Name of test institute: Anderson Acoustics Ltd

Date: 21/02/2025 — Signature: [redacted]

Standardized level difference according to BS EN ISO 140-4

Field measurements of airborne sound insulation between rooms

Client: Cheesmur Building Contractors — Date of test: 31st January 2025

Description: 11 & 15 Albion Street

Dwelling - houses and flats formed by material change of use

Object: Floor

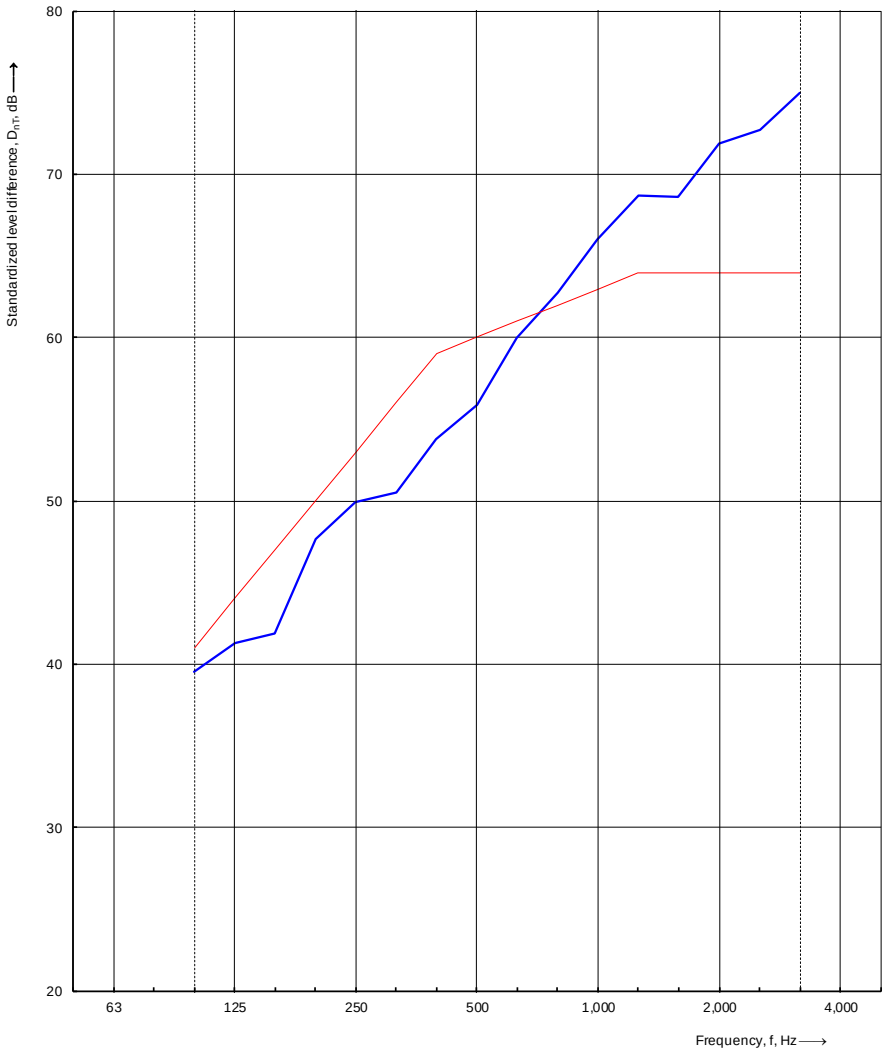
Source room: 2nd Floor, Plot B1.02.F01, Living Room/Kitchen

Receiving room: 3rd Floor, Plot B1.03.F01, Living Room/Kitchen

Source room volume :	65	m^3	Frequency range according to the
Receiving room volume :	65	m^3	curve of shifted reference values (ISO 717-1)
Area of partition :	26	m^2	D_{nT}

Frequency f [Hz]	D_{nT} 1/3 octave [dB]	
50		
63		
80		
100	39.5	
125	41.3	
160	41.9	
200	47.7	
250	49.9	
315	50.5	
400	53.8	
500	55.9	
630	60.0	
800	62.8	
1000	66.0	
1250	68.7	1
1600	68.6	
2000	71.9	1
2500	72.7	1
3150	75.0	1
4000		
5000		

[1] Limit of measurement



Rating according to ISO 717-1

$D_{nT,w}(C;C_{tr})$ = 60 (-2 ; -7) dB

$D_{nT,w} + C_{tr}$ = 53 dB

Evaluation based on field measurements results obtained in one-third-octave bands by an engineering method.

No. of test report: 16

Name of test institute: Anderson Acoustics Ltd

Date: 21/02/2025

Signature: [redacted]

Standardized impact sound pressure levels according to ISO140-7

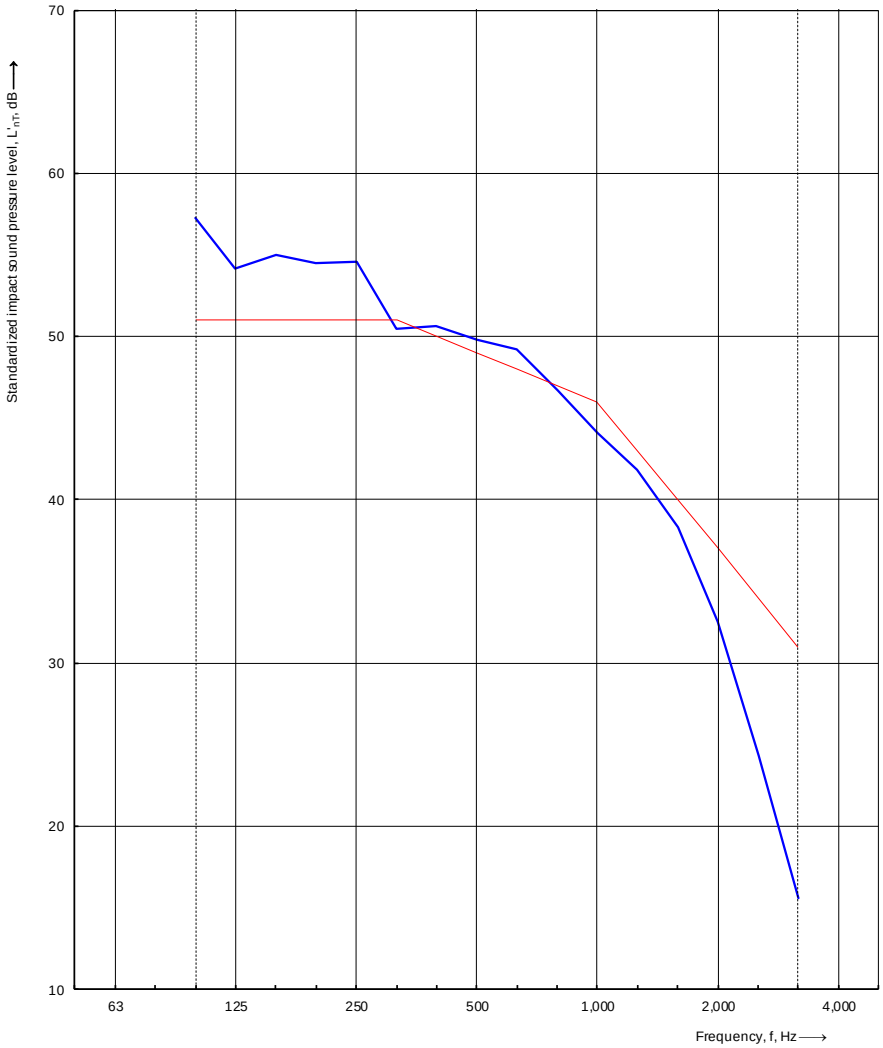
Field measurements of impact sound insulation of floors

Client:	Cheesmur Building Contractors	Date of test: 31st January 2025
Description	11 & 15 Albion Street	
	Dwelling - houses and flats formed by material change of use	
Object:	Floor	
Source room:	3rd Floor, Plot B1.03.F01, Living Room/Kitchen	
Receiving room:	2nd Floor, Plot B1.02.F01, Living Room/Kitchen	

Source room volume :	65	m^3	Frequency range according to the
Receiving room volume :	65	m^3	curve of shifted reference values (ISO 717-2)
Area of partition :	26	m^2	L'_{nT}

Frequency f [Hz]	L'_{nT} 1/3 octave [dB]
50	
63	
80	
100	57.3
125	54.2
160	55.0
200	54.5
250	54.6
315	50.5
400	50.6
500	49.8
630	49.2
800	46.7
1000	44.1
1250	41.8
1600	38.3
2000	32.5
2500	24.3
3150	15.6 [1]
4000	
5000	

[1] Limit of measurement



Rating according to ISO 717-2

$L'_{nT,w}(C_I)$ = 49 (-1) dB

Evaluation based on field measurements results obtained in one-third-octave bands by an engineering method.

No. of test report:	17	Name of test institute:	Anderson Acoustics Ltd
Date:	21/02/2025	Signature:	[redacted]

Standardized level difference according to BS EN ISO 140-4

Field measurements of airborne sound insulation between rooms

Client: Cheesmur Building Contractors — Date of test: 31st January 2025

Description: 11 & 15 Albion Street
Dwelling - houses and flats formed by material change of use

Object: Floor
Source room: 2nd Floor, Plot B1.02.F06, Bedroom 2
Receiving room: 3rd Floor, Plot B1.03.F06, Bedroom 2

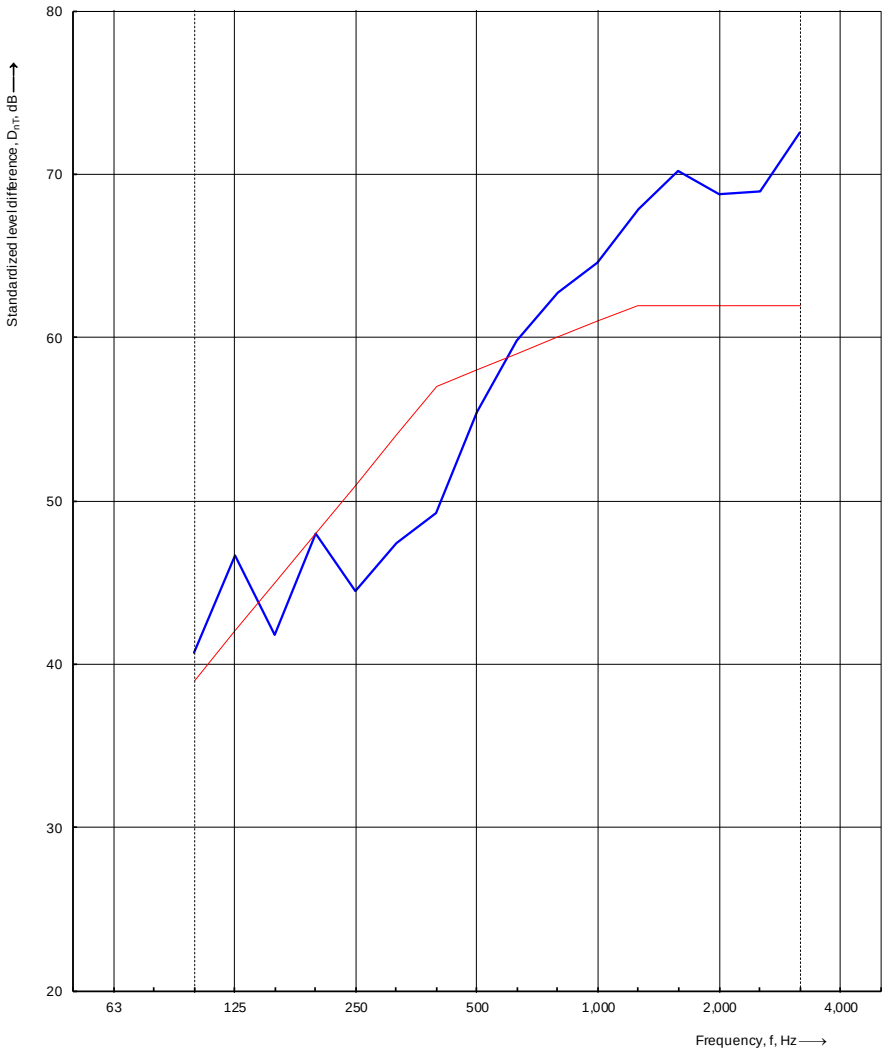
Source room volume :	23	m^3
Receiving room volume :	23	m^3
Area of partition :	9	m^2

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

D_{nT}

Frequency f [Hz]	D_{nT} 1/3 octave [dB]	
50		
63		
80		
100	40.7	
125	46.7	
160	41.8	
200	48.0	
250	44.5	
315	47.4	
400	49.3	
500	55.5	
630	59.8	
800	62.8	
1000	64.6	
1250	67.9	
1600	70.2	
2000	68.8	
2500	69.0	
3150	72.6	1
4000		
5000		

[1] Limit of measurement



Rating according to ISO 717-1

$D_{nT,w}(C;C_{tr})$ = 58 (-1 ; -5) dB

$D_{nT,w} + C_{tr}$ = 53 dB

Evaluation based on field measurements results obtained in one-third-octave bands by an engineering method.

No. of test report: 18 — Name of test institute: Anderson Acoustics Ltd

Date: 21/02/2025 — Signature: [redacted]

Standardized impact sound pressure levels according to ISO140-7

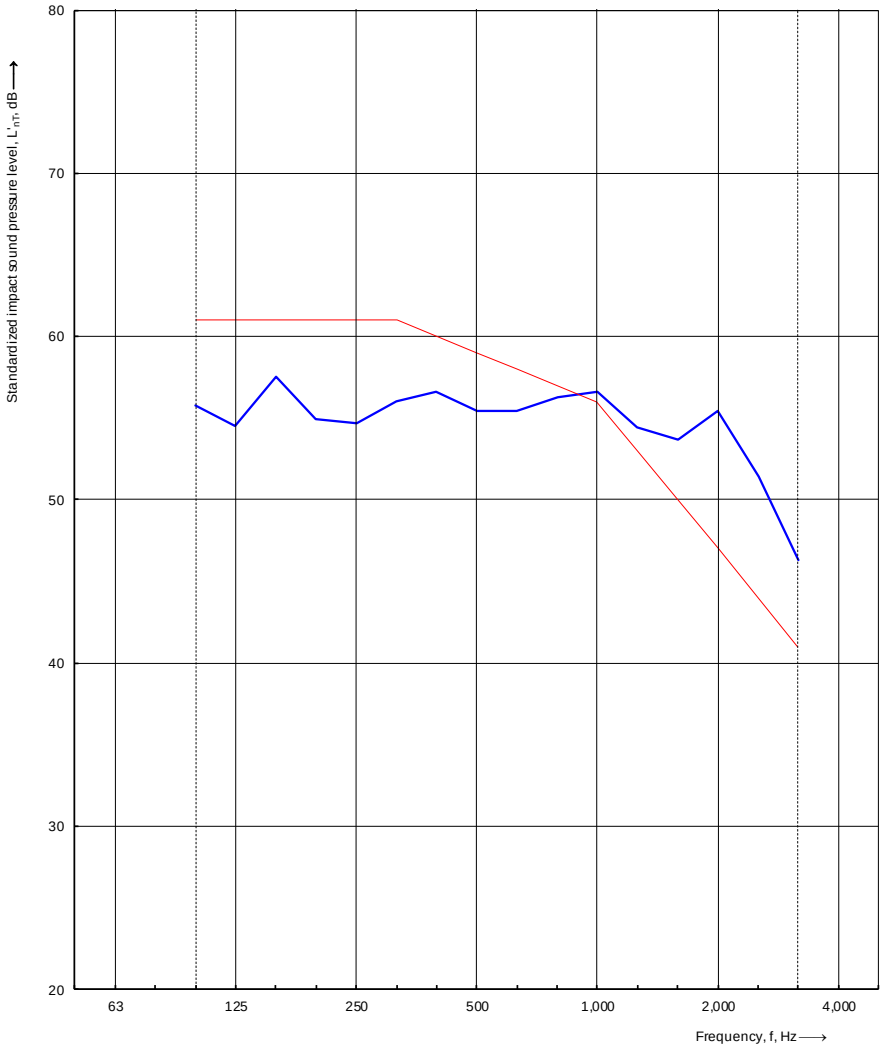
Field measurements of impact sound insulation of floors

Client:	Cheesmur Building Contractors	Date of test: 31st January 2025
Description	11 & 15 Albion Street	
	Dwelling - houses and flats formed by material change of use	
Object:	Floor	
Source room:	3rd Floor, Plot B1.03.F06, Bedroom 2	
Receiving room:	2nd Floor, Plot B1.02.F06, Bedroom 2	

Source room volume :	23	m^3	Frequency range according to the
Receiving room volume :	23	m^3	curve of shifted reference values (ISO 717-2)
Area of partition :	9	m^2	L'_{nT}

Frequency f [Hz]	L'_{nT} 1/3 octave [dB]
50	
63	
80	
100	55.8 [1]
125	54.5 [1]
160	57.5 [1]
200	54.9 [1]
250	54.7 [1]
315	56.0 [1]
400	56.6 [1]
500	55.4
630	55.4
800	56.3
1000	56.6
1250	54.4
1600	53.7
2000	55.4
2500	51.4
3150	46.3
4000	
5000	

[1] Limit of measurement



Rating according to ISO 717-2

$L'_{nT,w}(C_I)$ = 59 (-7) dB

Evaluation based on field measurements results obtained in one-third-octave bands by an engineering method.

No. of test report:	19	Name of test institute:	Anderson Acoustics Ltd
Date:	21/02/2025	Signature:	[redacted]

Standardized level difference according to BS EN ISO 140-4

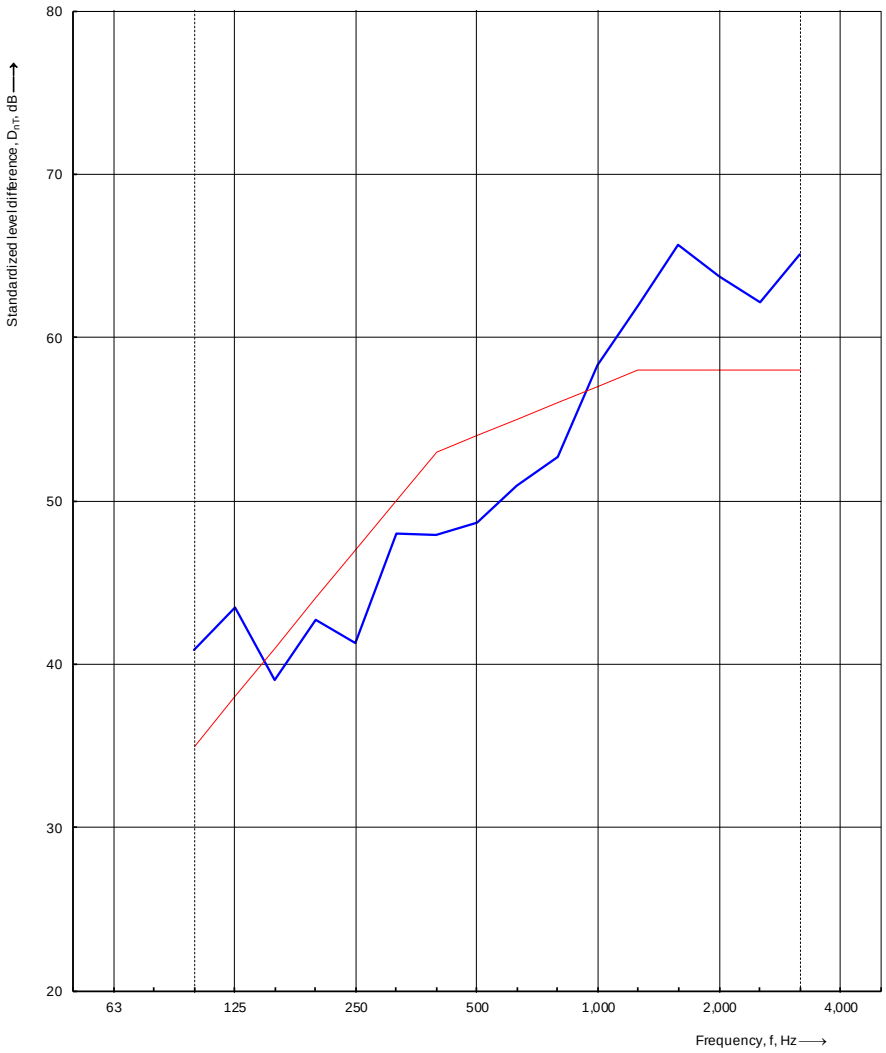
Field measurements of airborne sound insulation between rooms

Client:	Cheesmur Building Contractors	Date of test: 31st January 2025
Description	11 & 15 Albion Street	
	Dwelling - houses and flats formed by material change of use	
Object:	Wall	
Source room:	2nd Floor, Plot B1.02.F07, Living Room/Kitchen	
Receiving room:	2nd Floor, Plot B1.02.F06, Bedroom 2	

Source room volume :	31	m^3	Frequency range according to the
Receiving room volume :	23	m^3	curve of shifted reference values (ISO 717-1)
Area of partition :	10	m^2	D_{nT}

Frequency f [Hz]	D_{nT} 1/3 octave [dB]
50	
63	
80	
100	40.9
125	43.5
160	39.0
200	42.7
250	41.3
315	48.0
400	47.9
500	48.7
630	50.9
800	52.7
1000	58.3
1250	62.0
1600	65.7 [1]
2000	63.8
2500	62.2
3150	65.1
4000	
5000	

[1] Limit of measurement



Rating according to ISO 717-1

$D_{nT,w}(C;C_{tr})$ = 54 (-1 ; -4) dB

$D_{nT,w} + C_{tr}$ = 50 dB

Evaluation based on field measurements results obtained in one-third-octave bands by an engineering method.

No. of test report:	20	Name of test institute:	Anderson Acoustics Ltd
Date:	21/02/2025	Signature:	[redacted]

Standardized level difference according to BS EN ISO 140-4

Field measurements of airborne sound insulation between rooms

Client: Cheesmur Building Contractors — Date of test: 31st January 2025

Description: 11 & 15 Albion Street

Dwelling - houses and flats formed by material change of use

Object: Wall

Source room: 2nd Floor, Plot B1.02.F03, Living Room/Kitchen

Receiving room: 2nd Floor, Plot B1.02.F04, Bedroom 1

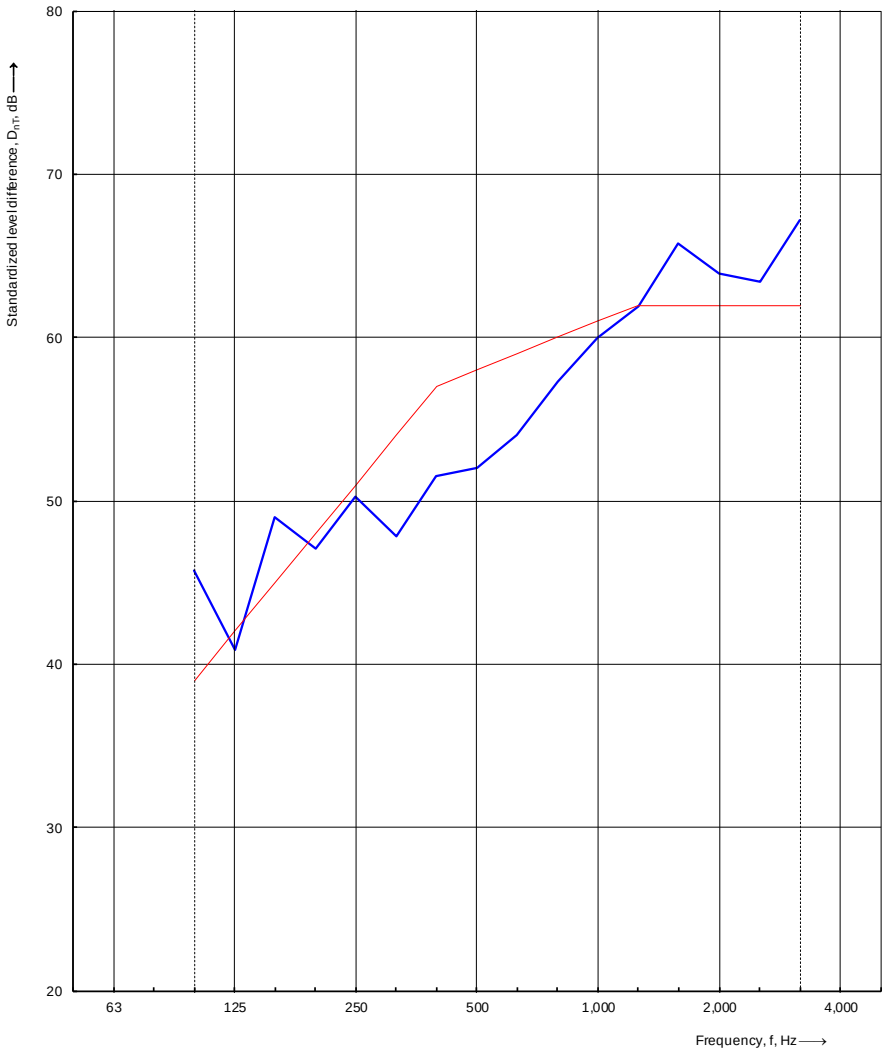
Source room volume :	65	m^3
Receiving room volume :	28	m^3
Area of partition :	8	m^2

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

D_{nT}

Frequency f [Hz]	D_{nT} 1/3 octave [dB]
50	
63	
80	
100	45.7
125	40.9
160	49.0
200	47.1
250	50.3
315	47.8
400	51.5
500	52.0
630	54.0
800	57.3
1000	60.0
1250	61.9
1600	65.8 [1]
2000	63.9
2500	63.4
3150	67.2
4000	
5000	

[1] Limit of measurement



Rating according to ISO 717-1

$D_{nT,w}(C;C_{tr})$ = 58 (-1 ; -4) dB

$D_{nT,w} + C_{tr}$ = 54 dB

Evaluation based on field measurements results obtained in one-third-octave bands by an engineering method.

No. of test report: 21 — Name of test institute: Anderson Acoustics Ltd

Date: 21/02/2025 — Signature: [redacted]

Standardized level difference according to BS EN ISO 140-4

Field measurements of airborne sound insulation between rooms

Client: Cheesmur Building Contractors — Date of test: 31st January 2025

Description: 11 & 15 Albion Street

Dwelling - houses and flats formed by material change of use

Object: Floor

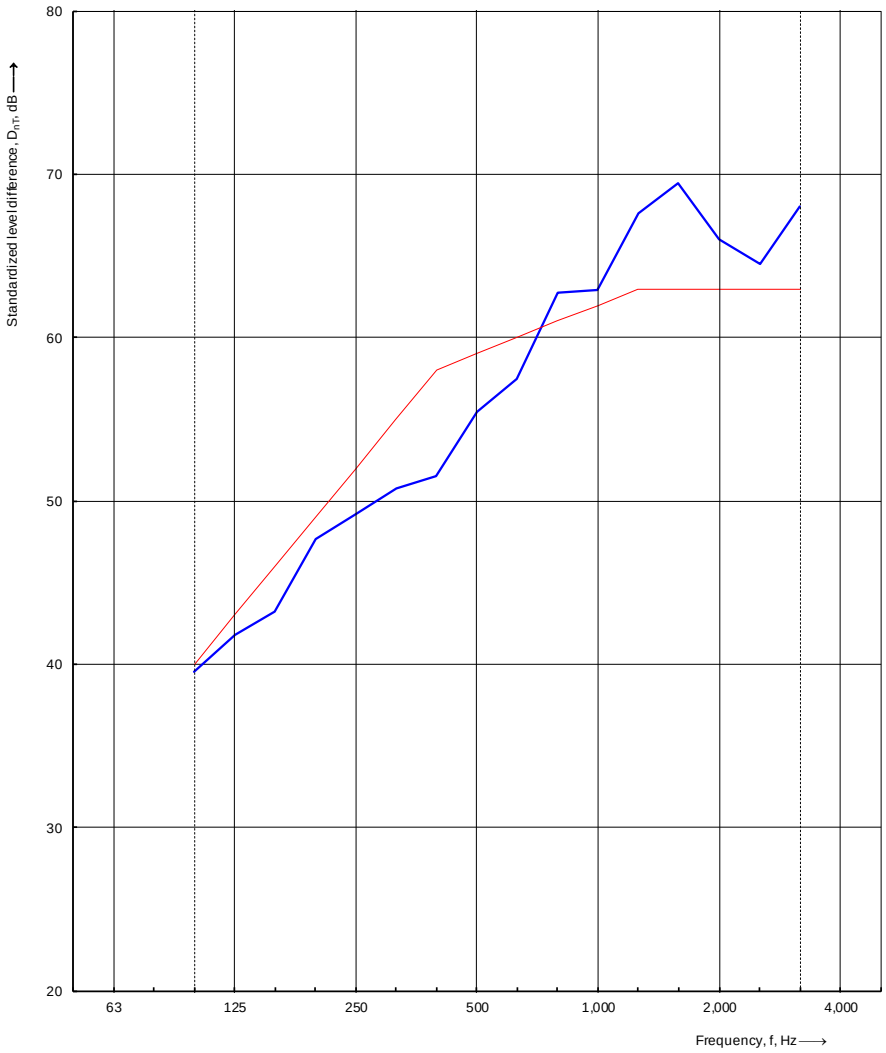
Source room: 1st Floor, Plot B1.01.F04, Bedroom 1

Receiving room: 2nd Floor, Plot B1.02.F04, Bedroom 1

Source room volume :	28	m^3	Frequency range according to the
Receiving room volume :	28	m^3	curve of shifted reference values (ISO 717-1)
Area of partition :	11	m^2	D_{nT}

Frequency f [Hz]	D_{nT} 1/3 octave [dB]	
50		
63		
80		
100	39.5	
125	41.8	
160	43.2	
200	47.7	
250	49.2	
315	50.8	
400	51.5	
500	55.5	
630	57.5	
800	62.8	
1000	62.9	
1250	67.6	
1600	69.5	1
2000	66.0	
2500	64.5	
3150	68.0	
4000		
5000		

[1] Limit of measurement



Rating according to ISO 717-1

$D_{nT,w}(C;C_{tr})$ = 59 (-1 ; -6) dB

$D_{nT,w} + C_{tr}$ = 53 dB

Evaluation based on field measurements results obtained in one-third-octave bands by an engineering method.

No. of test report: 22 — Name of test institute: Anderson Acoustics Ltd

Date: 21/02/2025 — Signature: [redacted]

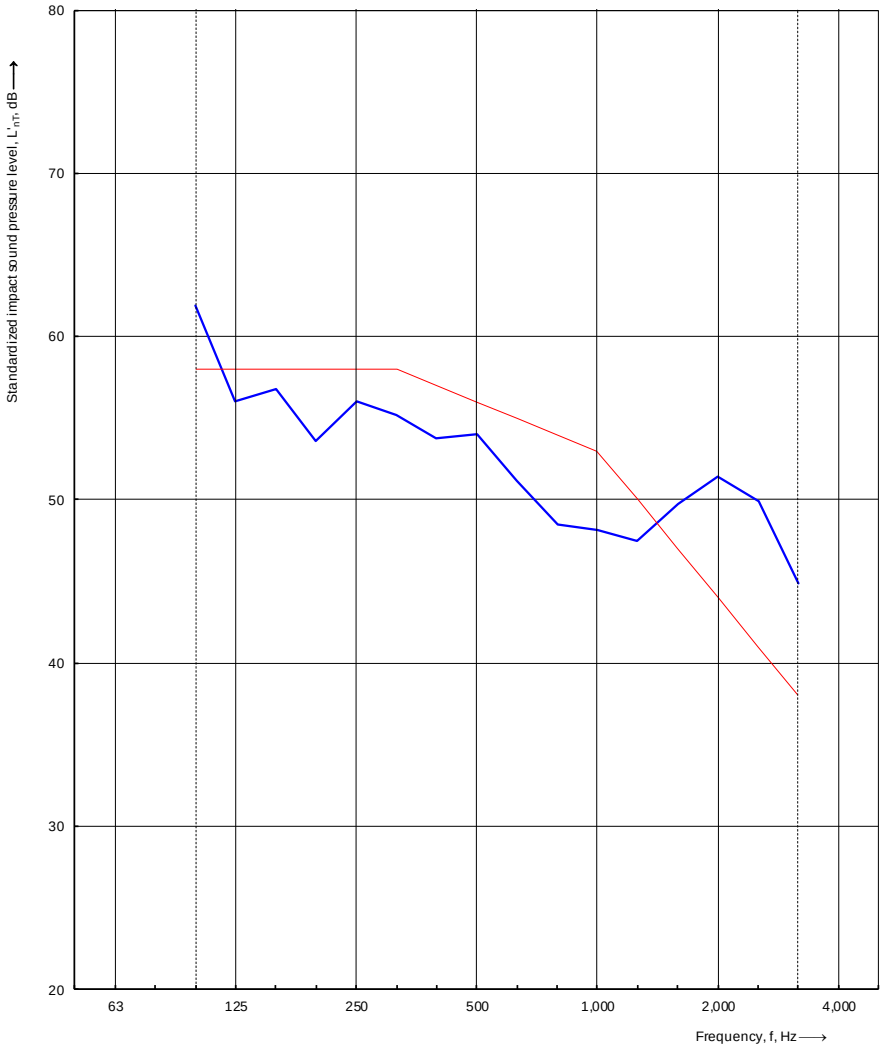
Standardized impact sound pressure levels according to ISO140-7

Field measurements of impact sound insulation of floors

Client:	Cheesmur Building Contractors	Date of test: 31st January 2025
Description	11 & 15 Albion Street	
	Dwelling - houses and flats formed by material change of use	
Object:	Floor	
Source room:	2nd Floor, Plot B1.02.F04, Bedroom 1	
Receiving room:	1st Floor, Plot B1.01.F04, Bedroom 1	

Source room volume :	28	m^3	Frequency range according to the
Receiving room volume :	28	m^3	curve of shifted reference values (ISO 717-2)
Area of partition :	11	m^2	L'_{nT}

Frequency f [Hz]	L'_{nT} 1/3 octave [dB]
50	
63	
80	
100	61.9
125	56.0
160	56.8
200	53.6
250	56.0
315	55.2
400	53.8
500	54.0
630	51.2
800	48.5
1000	48.1
1250	47.5
1600	49.7
2000	51.4
2500	49.9
3150	44.9
4000	
5000	



Rating according to ISO 717-2

$L'_{nT,w}(C_I)$ = 56 (-4) dB

Evaluation based on field measurements results obtained in one-third-octave bands by an engineering method.

No. of test report:	23	Name of test institute:	Anderson Acoustics Ltd
Date:	21/02/2025	Signature:	[redacted]

Standardized level difference according to BS EN ISO 140-4

Field measurements of airborne sound insulation between rooms

Client: Cheesmur Building Contractors — Date of test: 31st January 2025

Description: 11 & 15 Albion Street

Dwelling - houses and flats formed by material change of use

Object: Wall

Source room: 1st Floor, Plot B1.01.F03, Living Room/Kitchen

Receiving room: 1st Floor, Plot B1.01.F04, Bedroom 1

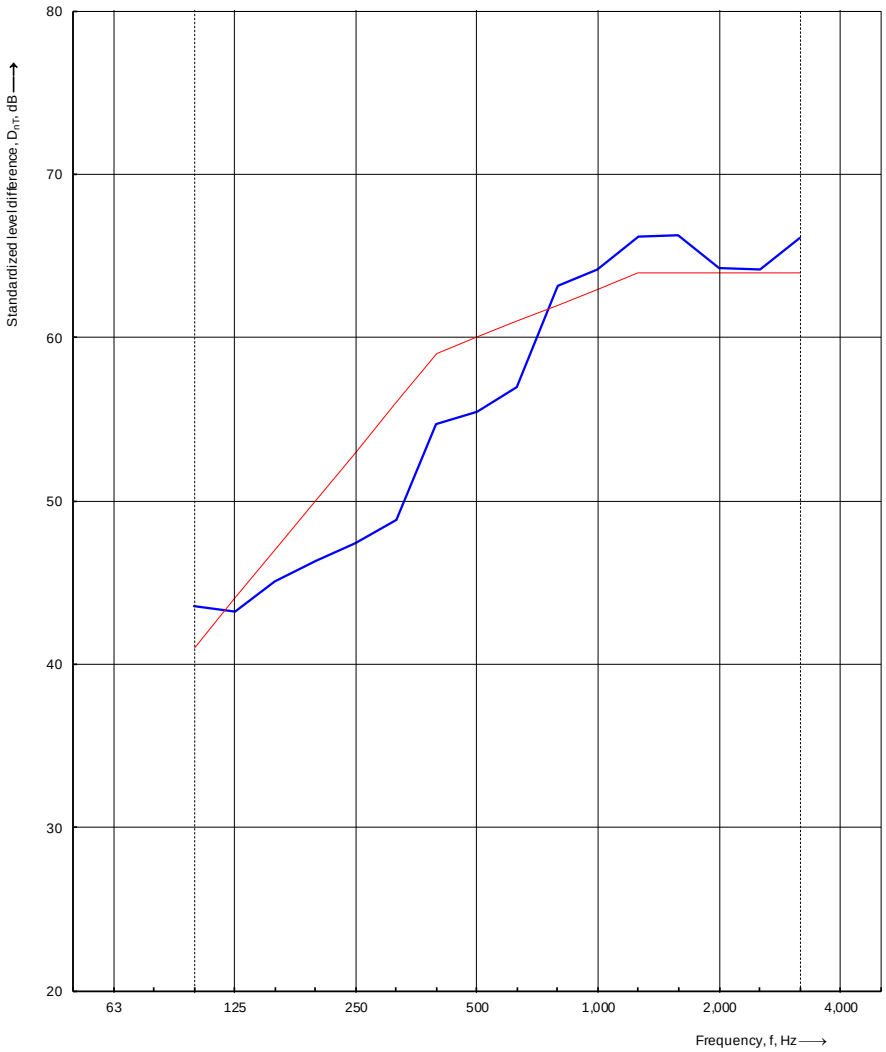
Source room volume :	65	m^3
Receiving room volume :	28	m^3
Area of partition :	9	m^2

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

D_{nT}

Frequency f [Hz]	D_{nT} 1/3 octave [dB]
50	
63	
80	
100	43.6
125	43.2
160	45.1
200	46.3
250	47.4
315	48.8
400	54.7
500	55.5
630	57.0
800	63.2
1000	64.2
1250	66.2
1600	66.3 [1]
2000	64.3
2500	64.2
3150	66.1
4000	
5000	

[1] Limit of measurement



Rating according to ISO 717-1

$D_{nT,w}(C;C_{tr})$ = 60 (-2 ; -6) dB

$D_{nT,w} + C_{tr}$ = 54 dB

Evaluation based on field measurements results obtained in one-third-octave bands by an engineering method.

No. of test report: 24 — Name of test institute: Anderson Acoustics Ltd

Date: 21/02/2025 — Signature: [redacted]

Standardized level difference according to BS EN ISO 140-4

Field measurements of airborne sound insulation between rooms

Client: Cheesmur Building Contractors — Date of test: 31st January 2025

Description: 11 & 15 Albion Street
Dwelling - houses and flats formed by material change of use

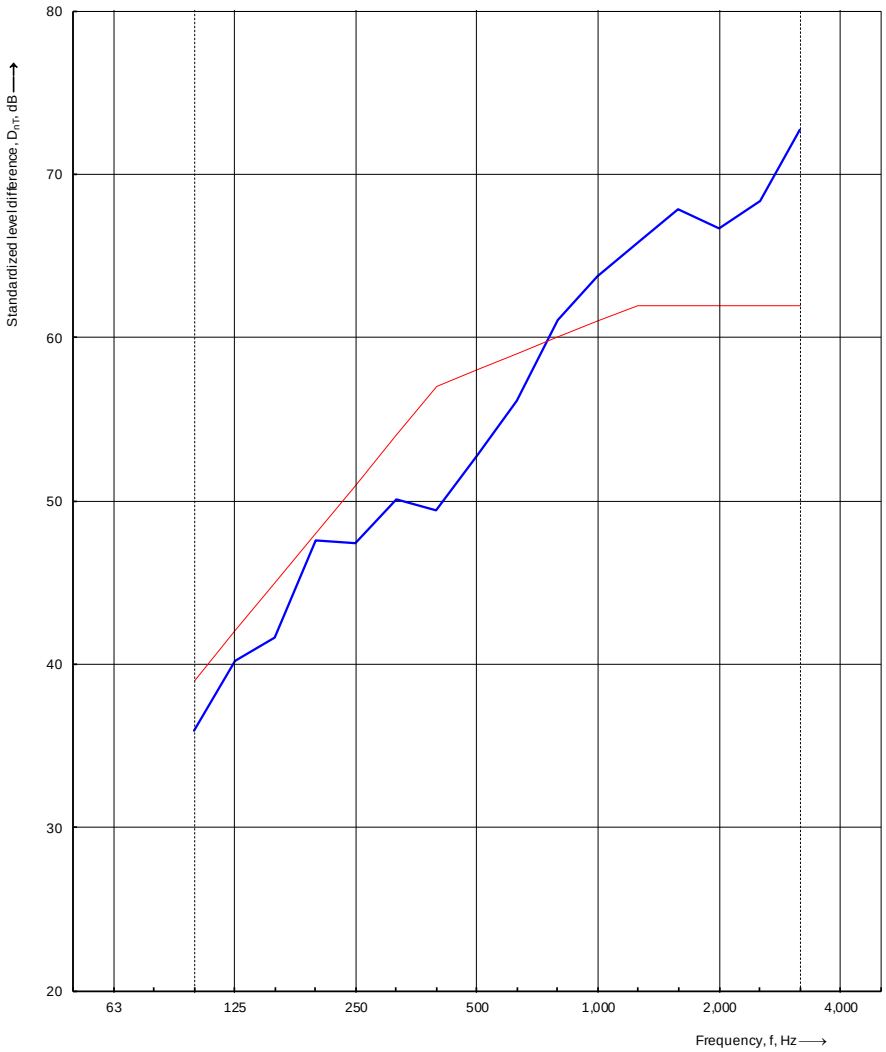
Object: Floor
Source room: 1st Floor, Plot B1.01.F06, Bedroom 2
Receiving room: 2nd Floor, Plot B1.02.F06, Bedroom 2

Source room volume :	23	m^3
Receiving room volume :	23	m^3
Area of partition :	9	m^2

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

Frequency f [Hz]	D_{nT} 1/3 octave [dB]	
50		
63		
80		
100	35.9	
125	40.2	
160	41.6	
200	47.6	
250	47.4	
315	50.1	
400	49.4	
500	52.8	
630	56.1	
800	61.1	
1000	63.8	
1250	65.9	
1600	67.9	
2000	66.7	
2500	68.4	
3150	72.7	1
4000		
5000		

[1] Limit of measurement



Rating according to ISO 717-1
$D_{nT,w}(C;C_{tr})$ = 58 (-2 ; -7) dB
$D_{nT,w+}\ C_{tr}$ = 51 dB

Evaluation based on field measurements results obtained in one-third-octave bands by an engineering method.

No. of test report: 25 — Name of test institute: Anderson Acoustics Ltd

Date: 21/02/2025 — Signature: [redacted]

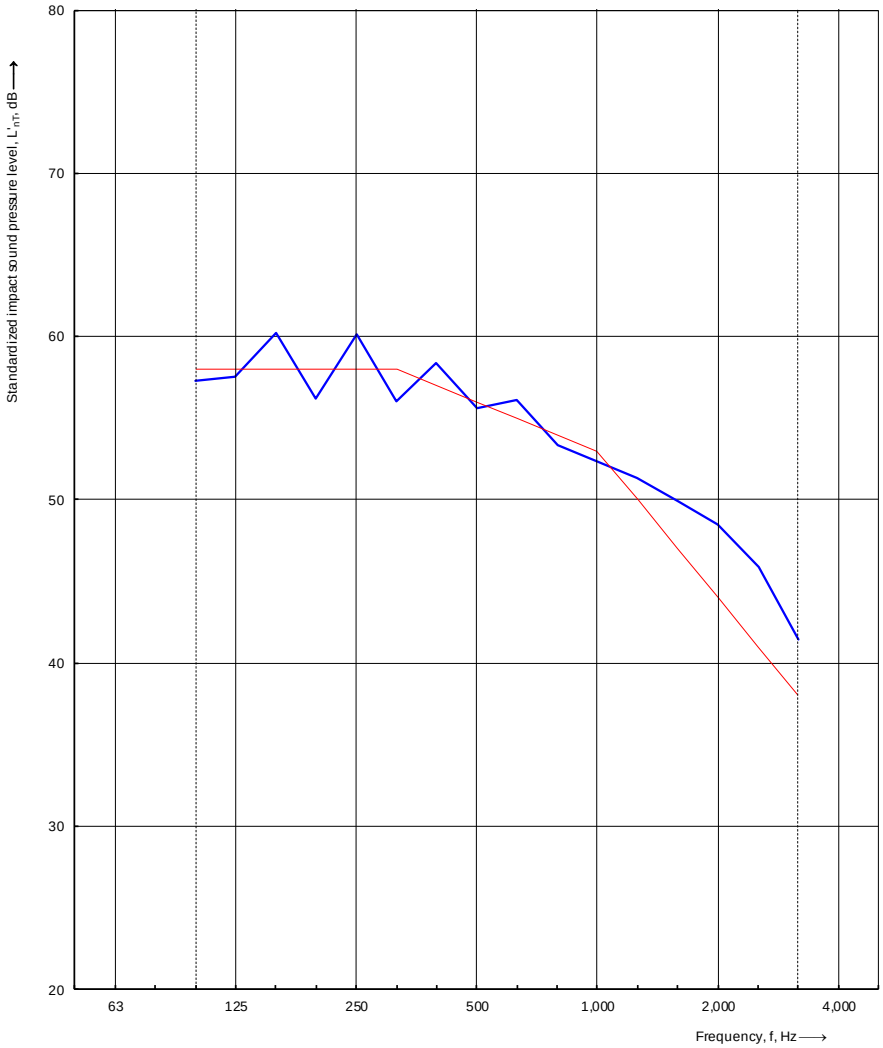
Standardized impact sound pressure levels according to ISO140-7

Field measurements of impact sound insulation of floors

Client:	Cheesmur Building Contractors	Date of test: 31st January 2025
Description	11 & 15 Albion Street	
	Dwelling - houses and flats formed by material change of use	
Object:	Floor	
Source room:	2nd Floor, Plot B1.02.F06, Bedroom 2	
Receiving room:	1st Floor, Plot B1.01.F06, Bedroom 2	

Source room volume :	23	m^3	Frequency range according to the
Receiving room volume :	23	m^3	curve of shifted reference values (ISO 717-2)
Area of partition :	9	m^2	L'_{nT}

Frequency f [Hz]	L'_{nT} 1/3 octave [dB]
50	
63	
80	
100	57.3
125	57.5
160	60.2
200	56.2
250	60.1
315	56.0
400	58.4
500	55.6
630	56.1
800	53.3
1000	52.3
1250	51.3
1600	49.9
2000	48.5
2500	45.9
3150	41.4
4000	
5000	



Rating according to ISO 717-2

$L'_{nT,w}(C_I)$ = 56 (-3) dB

Evaluation based on field measurements results obtained in one-third-octave bands by an engineering method.

No. of test report:	26	Name of test institute:	Anderson Acoustics Ltd
Date:	21/02/2025	Signature:	[redacted]

Standardized level difference according to BS EN ISO 140-4

Field measurements of airborne sound insulation between rooms

Client: Cheesmur Building Contractors — Date of test: 31st January 2025

Description: 11 & 15 Albion Street

Dwelling - houses and flats formed by material change of use

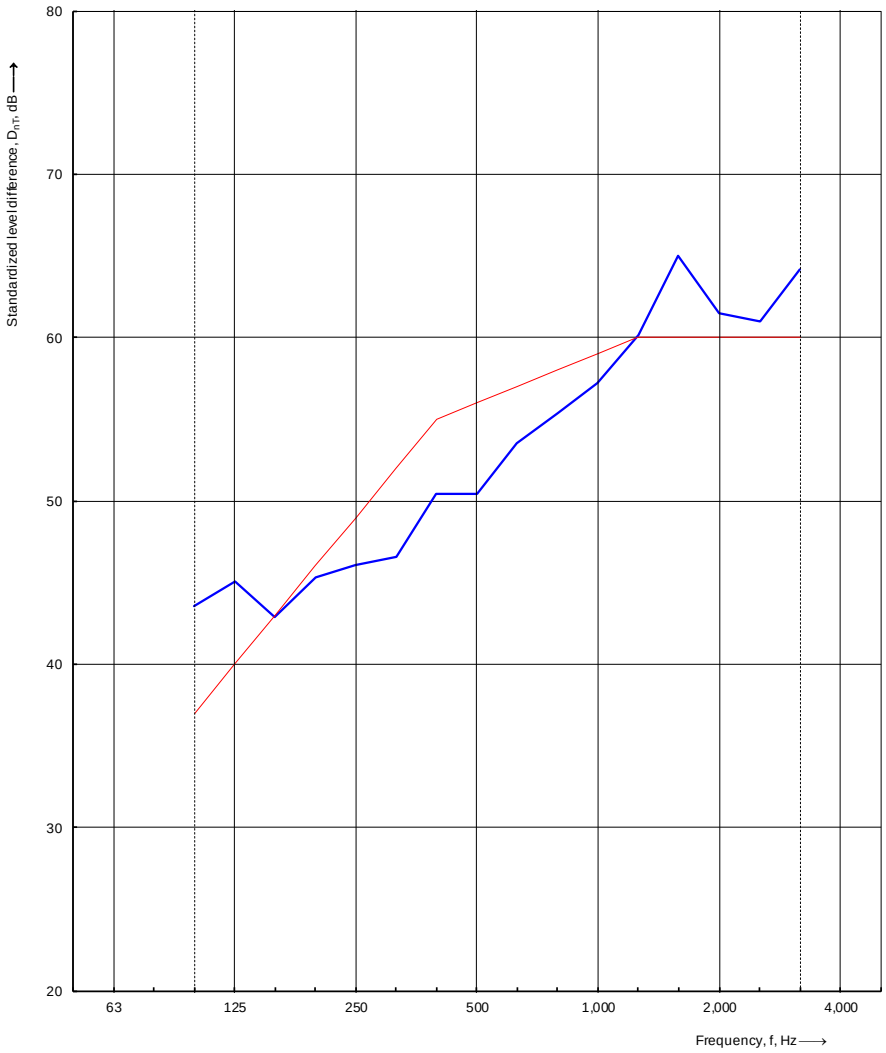
Object: Wall

Source room: 1st Floor, Plot B1.01.F07, Bedroom 1

Receiving room: 1st Floor, Plot B1.01.F06, Bedroom 2

Source room volume :	31	m^3	Frequency range according to the
Receiving room volume :	23	m^3	curve of shifted reference values (ISO 717-1)
Area of partition :	10	m^2	D_{nT}

Frequency f [Hz]	D_{nT} 1/3 octave [dB]
50	
63	
80	
100	43.6
125	45.1
160	42.9
200	45.3
250	46.1
315	46.6
400	50.4
500	50.4
630	53.5
800	55.4
1000	57.2
1250	60.2
1600	65.0
2000	61.5
2500	61.0
3150	64.2
4000	
5000	



Rating according to ISO 717-1

$D_{nT,w}(C;C_{tr})$ = 56 (-1 ; -4) dB

$D_{nT,w} + C_{tr}$ = 52 dB

Evaluation based on field measurements results obtained in one-third-octave bands by an engineering method.

No. of test report: 27 — Name of test institute: Anderson Acoustics Ltd

Date: 21/02/2025 — Signature: [redacted]

Standardized level difference according to BS EN ISO 140-4

Field measurements of airborne sound insulation between rooms

Client: Cheesmur Building Contractors — Date of test: 31st January 2025

Description: 11 & 15 Albion Street
Dwelling - houses and flats formed by material change of use

Object: Floor

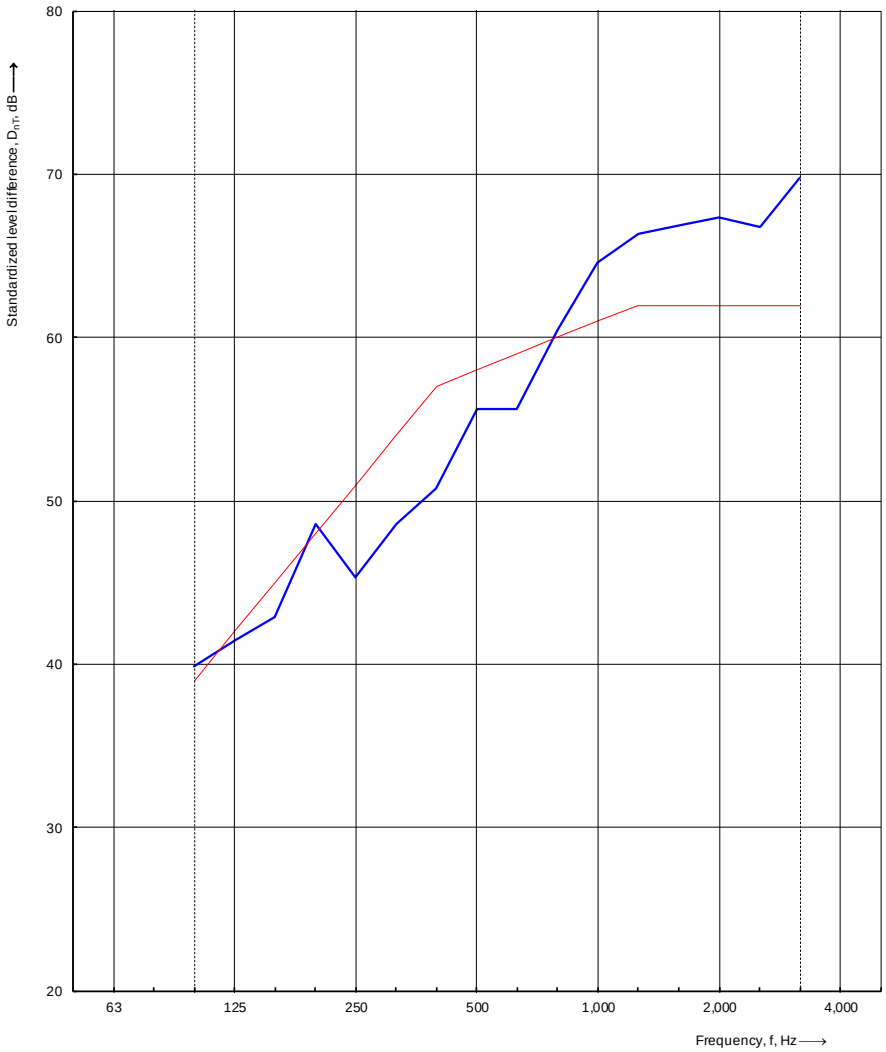
Source room: Ground Floor, Plot B1.00.F01, Bedroom 2

Receiving room: 1st Floor, Plot B1.01.F06, Bedroom 2

Source room volume :	23	m^3	Frequency range according to the
Receiving room volume :	23	m^3	curve of shifted reference values (ISO 717-1)
Area of partition :	9	m^2	D_{nT}

Frequency f [Hz]	D_{nT} 1/3 octave [dB]	
50		
63		
80		
100	39.9	
125	41.5	
160	42.9	
200	48.6	
250	45.3	
315	48.6	
400	50.8	
500	55.6	
630	55.6	
800	60.5	
1000	64.6	1
1250	66.4	
1600	66.9	1
2000	67.4	
2500	66.8	
3150	69.8	
4000		
5000		

[1] Limit of measurement



Rating according to ISO 717-1

$D_{nT,w}(C;C_{tr})$ = 58 (-1 ; -5) dB

$D_{nT,w} + C_{tr}$ = 53 dB

Evaluation based on field measurements results obtained in one-third-octave bands by an engineering method.

No. of test report: 28

Name of test institute: Anderson Acoustics Ltd

Date: 21/02/2025

Signature: [redacted]

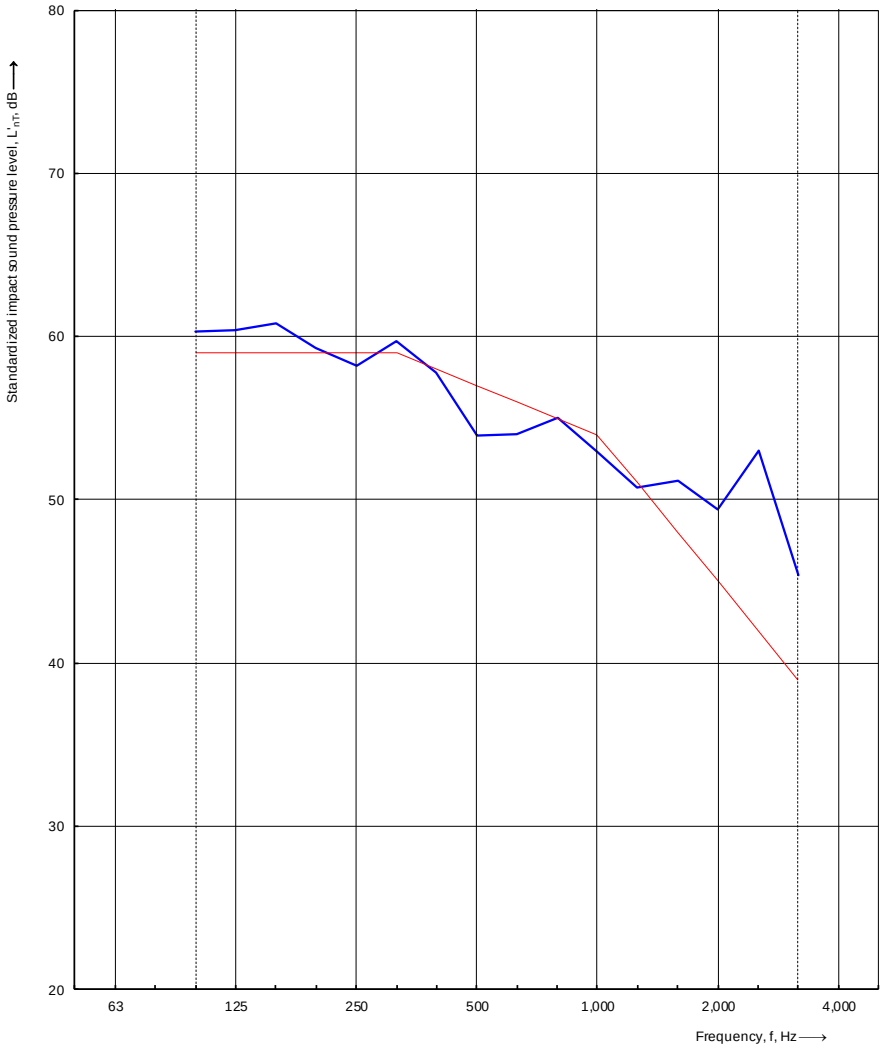
Standardized impact sound pressure levels according to ISO140-7

Field measurements of impact sound insulation of floors

Client:	Cheesmur Building Contractors	Date of test: 31st January 2025
Description	11 & 15 Albion Street	
	Dwelling - houses and flats formed by material change of use	
Object:	Floor	
Source room:	1st Floor, Plot B1.01.F06, Bedroom 2	
Receiving room:	Ground Floor, Plot B1.00.F01, Bedroom 2	

Source room volume :	23	m^3	Frequency range according to the
Receiving room volume :	23	m^3	curve of shifted reference values (ISO 717-2)
Area of partition :	9	m^2	L'_{nT}

Frequency f [Hz]	L'_{nT} 1/3 octave [dB]
50	
63	
80	
100	60.3
125	60.4
160	60.8
200	59.3
250	58.2
315	59.7
400	57.8
500	53.9
630	54.0
800	55.0
1000	52.9
1250	50.7
1600	51.2
2000	49.4
2500	53.0
3150	45.4
4000	
5000	



Rating according to ISO 717-2

$L'_{nT,w}(C_I)$ = 57 (-3) dB

Evaluation based on field measurements results obtained in one-third-octave bands by an engineering method.

No. of test report:	29	Name of test institute:	Anderson Acoustics Ltd
Date:	21/02/2025	Signature:	[redacted]

Standardized level difference according to BS EN ISO 140-4

Field measurements of airborne sound insulation between rooms

Client: Cheesmur Building Contractors — Date of test: 31st January 2025

Description: 11 & 15 Albion Street

Dwelling - houses and flats formed by material change of use

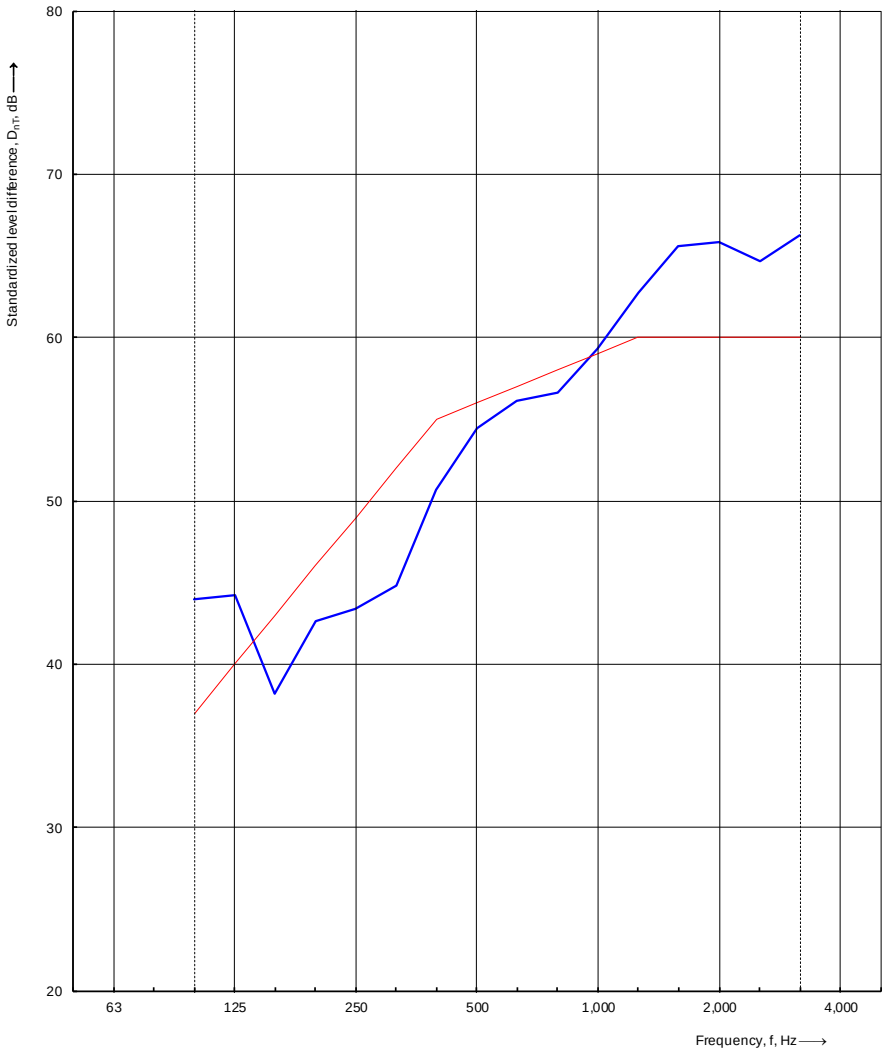
Object: Wall

Source room: Ground Floor, Plot B1.00.F02, Bedroom 1

Receiving room: Ground Floor, Plot B1.00.F01, Bedroom 2

Source room volume :	30	m^3	Frequency range according to the
Receiving room volume :	23	m^3	curve of shifted reference values (ISO 717-1)
Area of partition :	10	m^2	D_{nT}

Frequency f [Hz]	D_{nT} 1/3 octave [dB]
50	
63	
80	
100	44.0
125	44.2
160	38.2
200	42.6
250	43.4
315	44.8
400	50.7
500	54.5
630	56.1
800	56.6
1000	59.3
1250	62.8
1600	65.6
2000	65.9
2500	64.7
3150	66.3
4000	
5000	



Rating according to ISO 717-1

$D_{nT,w}(C;C_{tr})$ = 56 (-2 ; -5) dB

$D_{nT,w} + C_{tr}$ = 51 dB

Evaluation based on field measurements results obtained in one-third-octave bands by an engineering method.

No. of test report: 30 — Name of test institute: Anderson Acoustics Ltd

Date: 21/02/2025 — Signature: [redacted]