



Airborne Sound Insulation testing in accordance with Test Standards BS EN ISO 140-4:1998
Impact Sound Insulation testing in accordance with Test Standards BS EN ISO 140-7:1998

Report Reference Number: 61768

Test Date: 12/02/2025

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Abstract

Pre-completion Sound Insulation Testing is the process of measuring how much noise a building element, normally a separating wall or a separating floor, prevents from travelling through to a neighbouring dwelling

This report describes the test procedure and the results obtained from the pre-completion sound insulation testing at Elm Grove, Hayling Island, PO11 9EH.

Competent Tester

Testing in this report was conducted by Kevin Hale (Registration Number: 7071), who is a Certified tester in the SITMA Certification Scheme for Sound Insulation Testers, which is a UKAS Accredited Certification Body No. 10579.

SITMA operates solely as a personal certification body. Its accredited function is limited to certifying individuals and their ability to follow the test standards. SITMA does not conduct these tests itself, nor does it participate in or influence the testing process in any way, neither is any tester an employee of SITMA.

The certification and reporting of tests falls outside the scope of the accredited scheme.

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The SITMA Certified Testers' Scheme

This testing described within this report was conducted by a certified tester of the Non-UKAS SITMA Certification Scheme for Sound Insulation Testers. The report was generated using the SITMA Portal, which testers are required to use as part of the requirements for certified testers (as per PUS006 - Lodgement Process, Rules & Guidance) in the SITMA Certification Scheme for Sound Insulation Testers. Further information on the certification scheme, its lodgement system, quality control and auditing requirements are discussed below.

Certified Tester Conducting this test:

Certified Tester:	Kevin Hale	
Associated Company:	Salveo Solutions, 179 Victoria Road, , Ferndown, BH22 9HY.	
Live Certification Status	https://www.bcta.group/sitma/members	

SITMA Certification Scope

The Non-UKAS SITMA Certification Scheme for Sound Insulation Testers operates to the principals BS EN ISO/IEC 17024:2012 ¹.

Testers are certified in accordance with the SITMA Scope of Accreditation², accessible here:
<https://www.bcta.group/sitma/sitma-certification-scheme-scope/>

Audit Requirements

Each tester is audited annually, which may be unannounced, in accordance with SITMA Document PUS012 – Audit Process & chOutcomes. This is achieved by the tester logging their job onto the SITMA portal **in advance of testing taking place**.

Each certified tester will be able to issue you with their SITMA audit documentation from their last audit alongside this report, if requested.

SITMA Portal

The SITMA Portal, besides logging every job for every tester, is used to generate reports, just like this one. The portal does not accept pre-calculated information, it takes the raw data from the sound level meter and calculates each individual test result before producing this report, ensuring no test data has been amended by any tester prior to being uploaded.

Calibration Requirements

SITMA calibration requirements can be found here: <https://www.bcta.group/sitma/equipment/usable-equipment>.

Complaints

You should speak directly with the tester if you wish to make a complaint. If your complaint is not handled to your satisfaction, you are then welcome to make a complaint directly to the SITMA certified tester's scheme in line with our complaints process. SITMA Document PUS013 – Complaints & Appeals.

TO CHECK THIS REPORT IS VALID

1. Head to this site:	https://www.sitma.bcta.group/
2. Use these credentials:	Report Reference Number: 61768 Job Postcode: PO11 9EH

¹ BS EN ISO/IEC 17024:2012 Conformity assessment — General requirements for bodies operating certification of persons (2018)

² United Kingdom Accreditation Service (UKAS) SITMA accreditation No. 10579

Report Revisions

Report Version:	Change(s) made
1.0	This document is the initial issue

Simplified Test Results

Certificate Number	Plot & Source Room	Plot & Receive Room	Target $D_{nT,w}+C_{tr}$ or $L'_{nT,w}$ (dB)	Result $D_{nT,w}+C_{tr}$ or $L'_{nT,w}$ (dB)	Result
198048	Apartment 38 Kitchen / Living Room	Apartment 39 Kitchen / Living Room	≥ 45	50	PASS
198049	Apartment 38 Bedroom 1	Apartment 37 Bedroom 1	≥ 45	50	PASS
198050	Apartment 5 Kitchen / Living Room	Apartment 4 Bedroom 1	≥ 45	52	PASS
198051	Apartment 5 Bedroom 1	Apartment 6 Kitchen / Living Room	≥ 45	47	PASS
198052	Apartment 12 Bedroom 1	Apartment 11 Bedroom 1	≥ 45	47	PASS
198053	Apartment 12 Kitchen / Living Room	Apartment 13 Kitchen / Living Room	≥ 45	46	PASS
198054	Apartment 5 Kitchen / Living Room	Apartment 4 Bedroom 1	≥ 45	47	PASS
198055	Apartment 20 Bedroom 1	Apartment 21 Bedroom 1	≥ 45	50	PASS
198056	Apartment 38 Kitchen / Living Room	Apartment 26 Kitchen / Living Room	≥ 45	48	PASS
198057	Apartment 38 Bedroom 1	Apartment 26 Bedroom 1	≥ 45	53	PASS
198058	Apartment 33 Kitchen / Living Room	Apartment 20 Kitchen / Living Room	≥ 45	55	PASS
198059	Apartment 33 Bedroom 1	Apartment 19 Bedroom 1	≥ 45	51	PASS
198060	Apartment 26 Kitchen / Living Room	Apartment 12 Kitchen / Living Room	≥ 45	56	PASS
198061	Apartment 26 Bedroom 1	Apartment 12 Bedroom 1	≥ 45	52	PASS
198062	Apartment 19 Kitchen / Living Room	Apartment 5 Kitchen / Living Room	≥ 45	52	PASS

198063	Apartment 19 Bedroom 1	Apartment 5 Bedroom 1	≥ 45	52	PASS
198064	Apartment 38 Kitchen / Living Room	Apartment 26 Kitchen / Living Room	≤ 62	44	PASS
198065	Apartment 38 Bedroom 1	Apartment 26 Bedroom 1	≤ 62	44	PASS
198066	Apartment 33 Kitchen / Living Room	Apartment 20 Kitchen / Living Room	≤ 62	50	PASS
198067	Apartment 33 Bedroom 1	Apartment 19 Bedroom 1	≤ 62	50	PASS
198068	Apartment 26 Kitchen / Living Room	Apartment 12 Kitchen / Living Room	≤ 62	53	PASS
198069	Apartment 26 Bedroom 1	Apartment 12 Bedroom 1	≤ 62	53	PASS
198070	Apartment 19 Kitchen / Living Room	Apartment 5 Kitchen / Living Room	≤ 62	52	PASS
198071	Apartment 19 Bedroom 1	Apartment 5 Bedroom 1	≤ 62	50	PASS

* Results shown with an asterisk have a deviation which is discussed on the certificate and in the Detailed Test Results section.

Testing Methodology

Airborne Sound Insulation Tests

Measurements of Standardised Level Difference (D_{nT}) were conducted in accordance with BS EN ISO 140-4:1998.

Level measurements in the Source & Receive Rooms (L_1 & L_2)

The noise was generated in the source room by placing an active loudspeaker, which produced a steady spectrum of noise, in an external corner of the room, opposite the wall being tested (where walls are being tested) at least 0.5m away from any reflective surface.

The sound pressure level was measured in both the source room and receive room, sampling as much of the room as possible, for each of two loudspeaker positions. The sound level meter was always kept 0.7m away from any reflective surface as to not artificially increase or decrease noise levels into the microphone.

The measurements were taken at one-third octave band intervals from 100 to 3150 Hertz using an averaging time of at least 30 seconds. The speaker was moved at least 1.4m horizontally and 0.3m vertically and the measurements were repeated. The measurements in each room were logarithmically averaged.

Background Measurements in Receive Room (L_b)

Background noise levels were measured in the receive room with the source room speaker turned off to ensure the background noise level did not influence the result. Corrections are applied when the background noise level is within 10dB of the signal and background noise level combined.

The background noise level was measured over a time period that accurately reflects the background noise measurement at the time of the test. This is normally between 6 & 30 seconds and can vary between the first and second background measurements.

Reverberation Time Measurements (RT)

The reverberation measurements were carried out following the guidance in BS EN ISO 140-7: 1998 and BS EN ISO EN 354:2003³.

A minimum of 6 reverberation time measurements were carried out in the receive room to accurately define the amount of influence the diffuse field has on the microphone, ensuring that the soft or hard surfaces within the room do not impact the overall test result.

These 6 reverberation time measurements were measured in the receive room using a minimum of 3 microphone positions in accordance with Section 6.5 of BS EN ISO 140-4:1998.

The noise was generated in the receive room by placing an active loudspeaker, which produced a steady spectrum of noise, in a corner of the room at least 0.5m away from any reflective surface.

The T_{20} RT measurements are used in the calculation as a minimum. Where T_{30} RT measurements are available, these are used where the sound level meter can do so.

³ BS EN ISO 354:2003 Acoustics – Measurement of sound absorption in a reverberation room

Impact Sound Insulation Tests

Impact Sound Insulation was conducted to BS EN ISO 140-7:1998
Measurements of standardised impact Sound Pressure Level (L'_{nT}) were conducted in accordance with BS EN ISO 140-7:1998.

Level Measurements in the Receive Room

Level measurements were acquired in the receive room using a tapping machine, which has a set of 5 steel hammers, to produce impact noise in the source room in at least four different positions on the separating floor surface.

The tapping machine was orientated at 45 degrees to the main floor axis.

The noise level was measured in the receive room at a minimum of 4 swept microphone positions or a minimum of 6 fixed microphone positions at one-third octave band intervals from 100 to 3150 Hertz using an averaging time of at least 6 seconds for each of the 4 tapping machine positions, creating a minimum of 4 or 6 individual measurement readings.

The sound level meter was always kept 0.7m away from any reflective surface as to not artificially increase or decrease noise levels into the microphone.

Background Measurements in Receive Room (L_b)

The background noise level was measured with the tapping machine turned off. This is to ensure the background noise level did not influence the result. The background noise level is measured over a time period that accurately reflects the background noise measurement at the time of the test. This is normally between 6 & 30 seconds and can vary between the first and second background measurements.

Reverberation Time Measurements (RT)

The reverberation measurements were carried out following the guidance in BS EN ISO 140-7: 1998 and BS ISO EN 354:2003³.

A minimum of 6 reverberation time measurements were carried out in the receive room to accurately define the amount of influence the diffuse field has on the microphone, ensuring that the soft or hard surfaces within the room do not impact the overall test result.

These 6 reverberation time measurements were measured in the receive room using a minimum of 3 microphone positions at each of two loudspeaker positions in accordance with Section 5.5 of BS EN ISO 140-7:1998.

The noise was generated in the receive room by placing an active loudspeaker, which produced a steady spectrum of noise, in a corner of the room at least 0.5m away from any reflective surface and then moved to another corner whilst maintaining the distances and the measurements were repeated.

The T_{20} RT measurements are used in the calculation as a minimum. Where T_{30} RT measurements are available, these are used where the sound level meter can do so.

These measurements are often the same readings as the airborne test when measured in the same group of tests where the receive room is the same and the test(s) carried out on the same day.

³ BS EN ISO 354:2003 Acoustics – Measurement of sound absorption in a reverberation room

Calculation Methodology

Uniform Requirements

Background Noise Correction ('Corrected L_2 ')

Any receive room measurements that are within 6dB of the background measurements are corrected by adding 1.3 dB to the receive room measurement.

If the difference in levels is smaller than 10dB but greater than 6dB, the signal is corrected as per BS EN ISO 140-4:1998 Section 6.6 for airborne tests and BS EN ISO 140-7:1998 Section 5.6 for impact tests.

Precision

All measurements are taken to 0.1dB precision, except reverberation times which are taken to 0.01 second precision. Measurements are calculated without rounding until the single number rating calculation, following guidance from BS EN ISO 717-1:1997⁴ and BS EN ISO 717-2:1997⁵

Airborne Sound Insulation Tests

Level Difference (' D ')

The difference between the source and 'corrected' receive room measurement is calculated for each speaker position and 2 differences arithmetically averaged to obtain ' D ' for each frequency measured. These are calculated separately for Speaker Position 1 and Speaker Position 2.

Standardised Level Difference (' D_{nT} ')

The results at each third octave band frequency are standardised by adding 10 times the logarithm of the reverberation time at each frequency, divided by 0.5 (reference reverberation time), to give the standardized level difference (D_{nT}) at each frequency.

Weighted Standardized Level Difference (' $D_{nT,w}$ ')

The individual D_{nT} are then compared to the standard reference curve, with the sum of unfavourable deviations measured and adjusted, as defined in BS EN ISO 717-1:1997 to give a single figure result of $D_{nT,w}$.

Weighted Standardized Level Difference with Spectrum Adaption (' $D_{nT,w} + C; C_{tr}$ ')

The spectrum adaptation terms ($C; C_{tr}$) are then calculated in accordance with BS EN ISO 717-1:1997.

Precision

All measurements are taken to 0.1dB precision, except reverberation times which are taken to 0.01 seconds precision.

⁴ BS EN ISO 717-1:1997 Acoustics – Rating of sound insulation in buildings and of building elements – Part 1: Airborne sound insulation

⁵ BS EN ISO 717-2:1997 Acoustics – Rating of sound insulation in buildings and of building elements – Part 2: Impact sound insulation

Impact Sound Insulation Tests

Standardized Impact Sound Pressure Level (L'_{nT})

The results at each third octave band frequency are standardized by subtracting 10 times the logarithm of half the reverberation time at each frequency, divided by 0.5, to the 'corrected' L_2 to give the Standardized Impact Sound Pressure Level (L'_{nT}) at each frequency.

Weighted Standardized Impact Sound Pressure Level (L'_{nT}).

The L'_{nT} are then compared to the standard reference curve, with the sum of unfavourable deviations measured and adjusted, as defined in BS EN ISO 717-2:1997 to give a single figure result of $L_{nT,w}$

⁴ BS EN ISO 717-1:1997 Acoustics – Rating of sound insulation in buildings and of building elements – Part 1: Airborne sound insulation

⁵ BS EN ISO 717-2:1997 Acoustics – Rating of sound insulation in buildings and of building elements – Part 2: Impact sound insulation

Sampling Regime

Testing was conducted using a sampling regime in accordance with Approved Document E 2003 [as amended] (ADE), ensuring each construction type was tested on the project, not necessarily each plot. It is assumed that each construction type is constructed consistently. If this is not the case, and deviations of the construction type occur, further testing will be required to comply with the requirements of Approved Document E 2003 [as amended] to the Building Regulations.

The location of the sets of tests were selected at random by the tester except where specifically requested by the Local Authority Building Control officer, Approved Inspector or by specialist input from Robust Details Limited.

Rooms were tested unfurnished unless testing is specifically requested in a furnished room.

Testing is conducted using the larger room as the source room, with a tolerance of 10% of volume being acceptable either way. Doors, windows, and trickle vents must be closed and kitchen units, cupboard doors, wardrobes etc shall be open for the duration of the test when they have been installed against the separating wall under test.

For impact testing, the tests are always conducted on the separating floor that has received Building Control Approval. It is only ever acceptable to test on a soft floor covering where that covering is an integral part of a Type 1 concrete floor as defined by ADE and cannot physically be lifted by the tester's own hands.

Occasionally, rooms may have an awkward layout, such as a stagger, be significant in length (>10m) or contain internal barriers. These requirements are defined in BS EN ISO 140-14:2004⁶ which all testers hold a copy of as a mandatory entry requirement into the SITMA Certified Testers' Scheme. Where a test has an awkward layout, the testing method from BS EN ISO 140-14:2004 will be defined in the report and sketches held internally.

Deviations

Background Noise Levels

Background noise levels are often an unavoidable part of testing as testing must take place on a live building site. Though a correction is applied within the calculation, high background noise levels may result in the wall/floor under test not achieving its full potential.

Situations can occur where background noise levels are not high, but the sound insulation performance of the separating floor or wall is so good that the measured levels are close to the prevailing background levels. The equipment used cannot distinguish between background noise levels and the noise from the speaker.

Deviations Related to the test

If any deviation from the testing method was necessary, details of the deviation are indicated on each individual test certificate (appended to this report). Where deviations were avoidable, or tests have been conducted on a 'trial' basis, these will be highlighted at the bottom of each certificate.

⁶ BS EN ISO 140-14:2004 Acoustics – Measurement of sound insulation in buildings and of building elements – Part 14: Guidelines for special situations in the field

Calibration

Calibration
The calibration certificates can be requested from the SITMA Certified Tester at any time.

Item Category	Standard	Calibration From	Calibration Expiry	Certificate Number
Calibrator	IEC 60942:2017	30 Aug 2024	29 Aug 2025	UCRT24/2157
Bi-Annual Calibration	IEC 61260-1:2014	08 Jan 2025	07 Jan 2027	UCRT25/1041
Speaker (Stability)	SITMA PUS007	15 Apr 2024	14 Apr 2026	47484
Tapper Machine	BS EN ISO 140-7:1998	20 May 2024	19 May 2026	U47854

Detailed Test Results

Airborne Wall Tests – New Build by Kevin Hale

Certificate Number	Plot & Source Room	Source Room Volume (m ³)	Plot & Receive Room	Receive Room Volume (m ³)	Target $D_{nT_gw}+C_{tr}$ (dB)	Result $D_{nT_gw}+C_{tr}$ (dB)	Result
198048	Apartment 38 Kitchen / Living Room	64.8m ³	Apartment 39 Kitchen / Living Room	56.3m ³	≥ 45 dB	50 dB	Pass
Construction: Generic Masonry Block: Block wall with plasterboard and skimmed Deviations:							
198049	Apartment 38 Bedroom 1	36.9m ³	Apartment 37 Bedroom 1	36.9m ³	≥ 45 dB	50 dB	Pass
Construction: : Block wall with plasterboard and skimmed Deviations:							
198050	Apartment 5 Kitchen / Living Room	62.2m ³	Apartment 4 Bedroom 1	26.4m ³	≥ 45 dB	52 dB	Pass
Construction: Generic Masonry Block: Block wall with plasterboard and skimmed Deviations:							
198051	Apartment 5 Bedroom 1	33.1m ³	Apartment 6 Kitchen / Living Room	58.1m ³	≥ 45 dB	47 dB	Pass
Construction: Generic Masonry Block: Block wall with plasterboard and skimmed Deviations:							
198052	Apartment 12 Bedroom 1	26.7m ³	Apartment 11 Bedroom 1	26.7m ³	≥ 45 dB	47 dB	Pass
Construction: Generic Masonry Block: Block wall with plasterboard and skimmed Deviations:							
198053	Apartment 12 Kitchen / Living Room	70.6m ³	Apartment 13 Kitchen / Living Room	58.8m ³	≥ 45 dB	46 dB	Pass
Construction: Generic Masonry Block: Block wall with plasterboard and skimmed Deviations:							
198054	Apartment 5 Kitchen / Living Room	62.2m ³	Apartment 4 Bedroom 1	26.4m ³	≥ 45 dB	47 dB	Pass
Construction: Generic Masonry Block: Block wall with plasterboard and skimmed Deviations:							

198055	Apartment 20 Bedroom 1	25.7m³	Apartment 21 Bedroom 1	25.7m³	≥ 45 dB	50 dB	Pass
Construction:							
Generic Masonry Block: Block wall with plasterboard and skimmed							
Deviations:							

Airborne floor Tests – New Build by Kevin Hale

Certificate Number	Plot & Source Room	Source Room Volume (m³)	Plot & Receive Room	Receive Room Volume (m³)	Target $D_{nT,yw}+C_{tr}$ (dB)	Result $D_{nT,yw}+C_{tr}$ (dB)	Result
198056	Apartment 38 Kitchen / Living Room	64.8m³	Apartment 26 Kitchen / Living Room	71.0m³	≥ 45 dB	48 dB	Pass
Construction: Generic Concrete: Concrete floor Deviations:							
198057	Apartment 38 Bedroom 1	36.9m³	Apartment 26 Bedroom 1	26.2m³	≥ 45 dB	53 dB	Pass
Construction: Generic Concrete: Concrete floor Deviations:							
198058	Apartment 33 Kitchen / Living Room	61.2m³	Apartment 20 Kitchen / Living Room	58.8m³	≥ 45 dB	55 dB	Pass
Construction: Generic Concrete: Concrete floor Deviations:							
198059	Apartment 33 Bedroom 1	33.6m³	Apartment 19 Bedroom 1	32.5m³	≥ 45 dB	51 dB	Pass
Construction: Generic Concrete: Concrete floor Deviations:							
198060	Apartment 26 Kitchen / Living Room	71.0m³	Apartment 12 Kitchen / Living Room	70.6m³	≥ 45 dB	56 dB	Pass
Construction: Generic Concrete: Concrete floor Deviations:							
198061	Apartment 26 Bedroom 1	26.2m³	Apartment 12 Bedroom 1	26.7m³	≥ 45 dB	52 dB	Pass
Construction: Generic Concrete: Concrete floor Deviations:							
198062	Apartment 19 Kitchen / Living Room	58.8m³	Apartment 5 Kitchen / Living Room	62.2m³	≥ 45 dB	52 dB	Pass
Construction: Generic Concrete: Concrete floor Deviations:							

198063	Apartment 19 Bedroom 1	32.5m³	Apartment 5 Bedroom 1	33.1m³	≥ 45 dB	52 dB	Pass
Construction: : Concrete floor							
Deviations:							

Impact floor Tests – New Build by Kevin Hale

Certificate Number	Plot & Source Room	Source Room Volume (m³)	Plot & Receive Room	Receive Room Volume (m³)	Target $L'_{nT,w}$ (dB)	Result $L'_{nT,w}$ (dB)	Result
198064	Apartment 38 Kitchen / Living Room	64.8m³	Apartment 26 Kitchen / Living Room	71.0m³	≤ 62 dB	44 dB	Pass
Construction: Generic Concrete: Concrete floor Deviations:							
198065	Apartment 38 Bedroom 1	36.9m³	Apartment 26 Bedroom 1	26.2m³	≤ 62 dB	44 dB	Pass
Construction: Generic Concrete: Concrete floor Deviations:							
198066	Apartment 33 Kitchen / Living Room	61.2m³	Apartment 20 Kitchen / Living Room	58.8m³	≤ 62 dB	50 dB	Pass
Construction: : Concrete floor Deviations:							
198067	Apartment 33 Bedroom 1	33.6m³	Apartment 19 Bedroom 1	32.5m³	≤ 62 dB	50 dB	Pass
Construction: Generic Concrete: Concrete floor Deviations:							
198068	Apartment 26 Kitchen / Living Room	71.0m³	Apartment 12 Kitchen / Living Room	70.6m³	≤ 62 dB	53 dB	Pass
Construction: Generic Concrete: Concrete floor Deviations:							
198069	Apartment 26 Bedroom 1	26.2m³	Apartment 12 Bedroom 1	26.7m³	≤ 62 dB	53 dB	Pass
Construction: Generic Concrete: Concrete floor Deviations:							
198070	Apartment 19 Kitchen / Living Room	58.8m³	Apartment 5 Kitchen / Living Room	62.2m³	≤ 62 dB	52 dB	Pass
Construction: Generic Concrete: Concrete floor Deviations:							

198071	Apartment 19 Bedroom 1	32.5m³	Apartment 5 Bedroom 1	33.1m³	≤ 62 dB	50 dB	Pass
Construction: Generic Concrete: Concrete floor							
Deviations:							

Appendix A – Individual Certificates

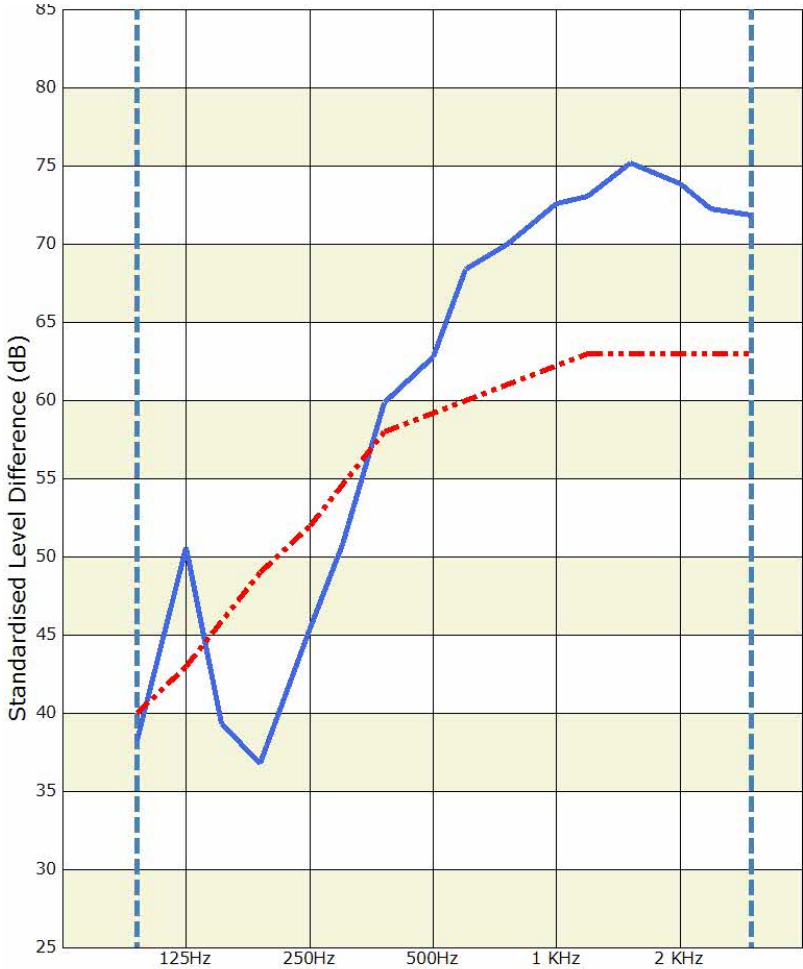
Test Type	Source Room	Partition	Receiver Room
Airborne sound insulation	Apartment 38 Kitchen / Living Room	WB0001**	Apartment 39 Kitchen / Living Room
Airborne sound insulation	Apartment 38 Bedroom 1		Apartment 37 Bedroom 1
Airborne sound insulation	Apartment 5 Kitchen / Living Room	WB0001**	Apartment 4 Bedroom 1
Airborne sound insulation	Apartment 5 Bedroom 1	WB0001**	Apartment 6 Kitchen / Living Room
Airborne sound insulation	Apartment 12 Bedroom 1	WB0001**	Apartment 11 Bedroom 1
Airborne sound insulation	Apartment 12 Kitchen / Living Room	WB0001**	Apartment 13 Kitchen / Living Room
Airborne sound insulation	Apartment 5 Kitchen / Living Room	WB0001**	Apartment 4 Bedroom 1
Airborne sound insulation	Apartment 20 Bedroom 1	WB0001**	Apartment 21 Bedroom 1
Airborne sound insulation	Apartment 38 Kitchen / Living Room	FC0001**	Apartment 26 Kitchen / Living Room
Airborne sound insulation	Apartment 38 Bedroom 1	FC0001**	Apartment 26 Bedroom 1
Airborne sound insulation	Apartment 33 Kitchen / Living Room	FC0001**	Apartment 20 Kitchen / Living Room
Airborne sound insulation	Apartment 33 Bedroom 1	FC0001**	Apartment 19 Bedroom 1
Airborne sound insulation	Apartment 26 Kitchen / Living Room	FC0001**	Apartment 12 Kitchen / Living Room
Airborne sound insulation	Apartment 26 Bedroom 1	FC0001**	Apartment 12 Bedroom 1
Airborne sound insulation	Apartment 19 Kitchen / Living Room	FC0001**	Apartment 5 Kitchen / Living Room
Airborne sound insulation	Apartment 19 Bedroom 1		Apartment 5 Bedroom 1
Impact sound insulation	Apartment 38 Kitchen / Living Room	FC0001**	Apartment 26 Kitchen / Living Room
Impact sound insulation	Apartment 38 Bedroom 1	FC0001**	Apartment 26 Bedroom 1
Impact sound insulation	Apartment 33 Kitchen / Living Room		Apartment 20 Kitchen / Living Room
Impact sound insulation	Apartment 33 Bedroom 1	FC0001**	Apartment 19 Bedroom 1
Impact sound insulation	Apartment 26 Kitchen / Living Room	FC0001**	Apartment 12 Kitchen / Living Room
Impact sound insulation	Apartment 26 Bedroom 1	FC0001**	Apartment 12 Bedroom 1
Impact sound insulation	Apartment 19 Kitchen / Living Room	FC0001**	Apartment 5 Kitchen / Living Room
Impact sound insulation	Apartment 19 Bedroom 1	FC0001**	Apartment 5 Bedroom 1

Registered Sound Insulation Test Certificate

Test No:	198048	Test Job Ref:	61768	Test Org Name:	Salveo Solutions
Customer:	Hamlet Homes			Test Type:	Airborne (Wall)
Address:	1 The Mill , Stane Street, Chichester	Job Address:	Elm Grove, , Hayling Island	Test Date:	12/02/2025
				Tester:	Kevin Hale
Postcode:	PO18 0FF	Postcode:	PO11 9EH	Site type:	New Build
				Site Build:	Dwelling- House/Flat
Source Room:		Partition:	Receiver Room:		
Description:	Apartment 38 Kitchen / Living Room	WB0001**	Apartment 39 Kitchen / Living Room		
Volume / Area	64.8m³	15.8m²	56.3m³		

Frequency (Hz)	D_{nT}	Correction
50*	0	
63*	0	
80*	0	
100	38.3	
125	50.6	
160	39.3	
200	36.8	
250	45.5	
315	50.8	
400	59.9	
500	62.8	
630	68.4	
800	70	
1K	72.6	
1.25K	73.1	
1.6K	75.2	
2K	73.9	
2.5K	72.3	
3.15K	71.9	
4K*	0	
5K*	0	

Evaluation based on field measurement using results obtained by an engineering method



1/3rd Octave Band Frequency (Hz)

*Denotes Measurement outside the testers scope of certification & the scope of the SITMA Accreditation.	Above graph shows frequency range according to the curve of reference values within BS EN ISO 717-1
$D_{nT,w}$ (C; C_{tr}) [dB]: 59 (-4, -9) dB	PASS
$D_{nT,w} + C_{tr}$ [dB]: 50 dB	Adverse Aggregated Deviations [dB]: 31.3
Minimum Pass Level [dB]: 45 dB	

Partition Detail:Block wall with plasterboard and skimmed

Test Exceptions (if any): None Declared by Tester

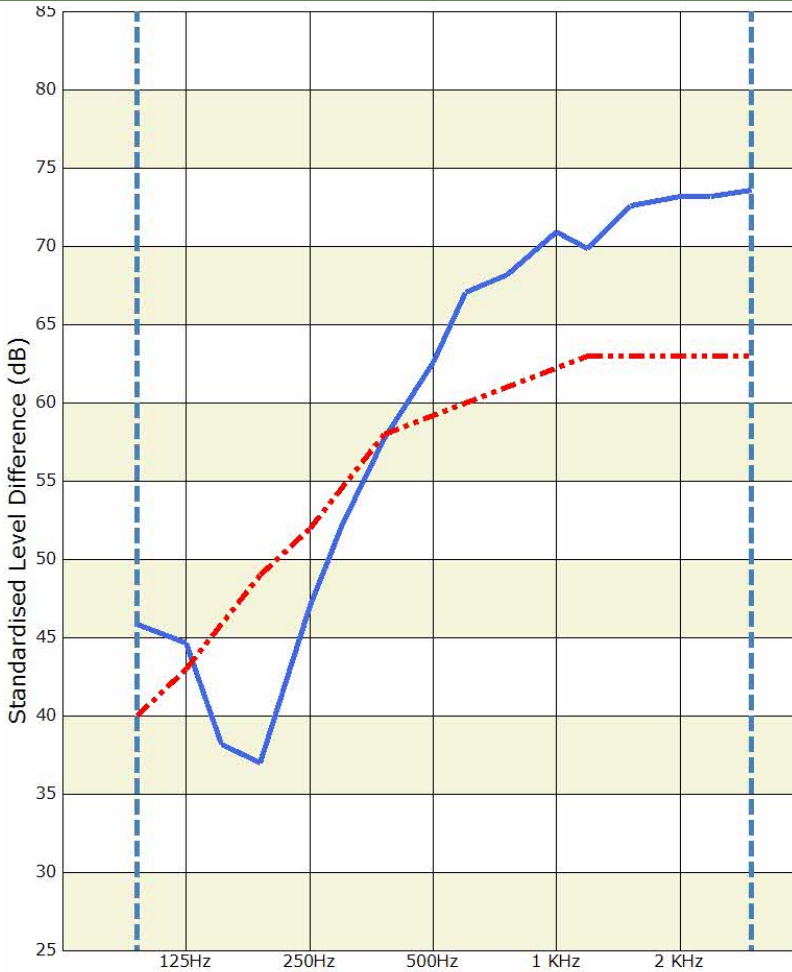
AIRBORNE SOUND INSULATION TEST: Approved Document E (2003) including 2004, 2010, 2013, and 2015 Amendments
BS EN ISO 140 - Part 4:1998: Acoustics - measurement of sound in buildings and of building elements
BS EN ISO 717 - Part 1:1997: Acoustics - rating of sound in buildings and of building elements

Registered Sound Insulation Test Certificate

Test No:	198049	Test Job Ref:	61768	Test Org Name:	Salveo Solutions
Customer:	Hamlet Homes			Test Type:	Airborne (Wall)
Address:	1 The Mill , Stane Street, Chichester	Job Address:	Elm Grove, , Hayling Island	Test Date:	12/02/2025
				Tester:	Kevin Hale
Postcode:	PO18 0FF	Postcode:	PO11 9EH	Site type:	New Build
				Site Build:	Dwelling- House/Flat
Source Room:		Partition:	Receiver Room:		
Description:	Apartment 38 Bedroom 1		Apartment 37 Bedroom 1		
Volume / Area	36.9m³	13.9m²	36.9m³		

Frequency (Hz)	D_{nT}	Correction
50*	0	
63*	0	
80*	0	
100	45.9	X
125	44.7	
160	38.2	
200	37	
250	47.1	
315	52.3	
400	57.7	
500	62.6	
630	67.1	
800	68.2	
1K	70.9	
1.25K	69.9	
1.6K	72.6	
2K	73.2	X
2.5K	73.2	X
3.15K	73.6	X
4K*	0	
5K*	0	

Evaluation based on field measurement using results obtained by an engineering method



1/3rd Octave Band Frequency (Hz)

*Denotes Measurement outside the testers scope of certification & the scope of the SITMA Accreditation.	Above graph shows frequency range according to the curve of reference values within BS EN ISO 717-1
$D_{nT,w}$ (C; C_{tr}) [dB]: 59 (-4, -9) dB	PASS
$D_{nT,w} + C_{tr}$ [dB]: 50 dB	Adverse Aggregated Deviations
Minimum Pass Level [dB]: 45 dB	[dB]: 27.7

Partition Detail:Block wall with plasterboard and skimmed

Test Exceptions (if any): None Declared by Tester

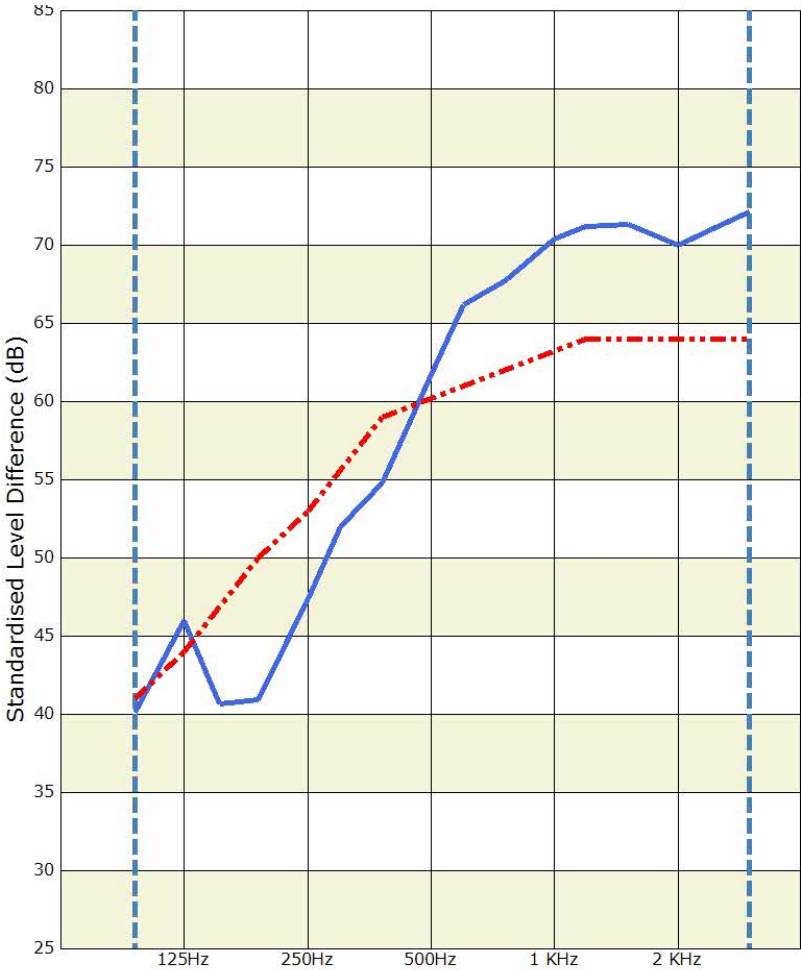
AIRBORNE SOUND INSULATION TEST: Approved Document E (2003) including 2004, 2010, 2013, and 2015 Amendments
BS EN ISO 140 - Part 4:1998: Acoustics - measurement of sound in buildings and of building elements
BS EN ISO 717 - Part 1:1997: Acoustics - rating of sound in buildings and of building elements

Registered Sound Insulation Test Certificate

Test No:	198050	Test Job Ref:	61768	Test Org Name:	Salveo Solutions
Customer:	Hamlet Homes			Test Type:	Airborne (Wall)
Address:	1 The Mill , Stane Street, Chichester	Job Address:	Elm Grove, , Hayling Island	Test Date:	12/02/2025
				Tester:	Kevin Hale
Postcode:	PO18 0FF	Postcode:	PO11 9EH	Site type:	New Build
				Site Build:	Dwelling- House/Flat
Source Room:		Partition:	Receiver Room:		
Description:	Apartment 5 Kitchen / Living Room	WB0001**	Apartment 4 Bedroom 1		
Volume / Area	62.2m³	9.6m²	26.4m³		

Frequency (Hz)	D_{nT}	Correction
50*	0	
63*	0	
80*	0	
100	40.1	
125	46	
160	40.7	
200	40.9	
250	47.4	
315	52	
400	54.8	
500	61.7	
630	66.2	
800	67.7	
1K	70.4	X
1.25K	71.2	X
1.6K	71.3	X
2K	70	X
2.5K	70.9	X
3.15K	72.1	X
4K*	0	
5K*	0	

Evaluation based on field measurement using results obtained by an engineering method



1/3rd Octave Band Frequency (Hz)

*Denotes Measurement outside the testers scope of certification & the scope of the SITMA Accreditation.	Above graph shows frequency range according to the curve of reference values within BS EN ISO 717-1
$D_{nT,w}$ (C; C_{tr}) [dB]: 60 (-3, -8) dB	PASS
$D_{nT,w} + C_{tr}$ [dB]: 52 dB	Adverse Aggregated Deviations
Minimum Pass Level [dB]: 45 dB	[dB]: 30.1

Partition Detail:Block wall with plasterboard and skimmed

Test Exceptions (if any): None Declared by Tester

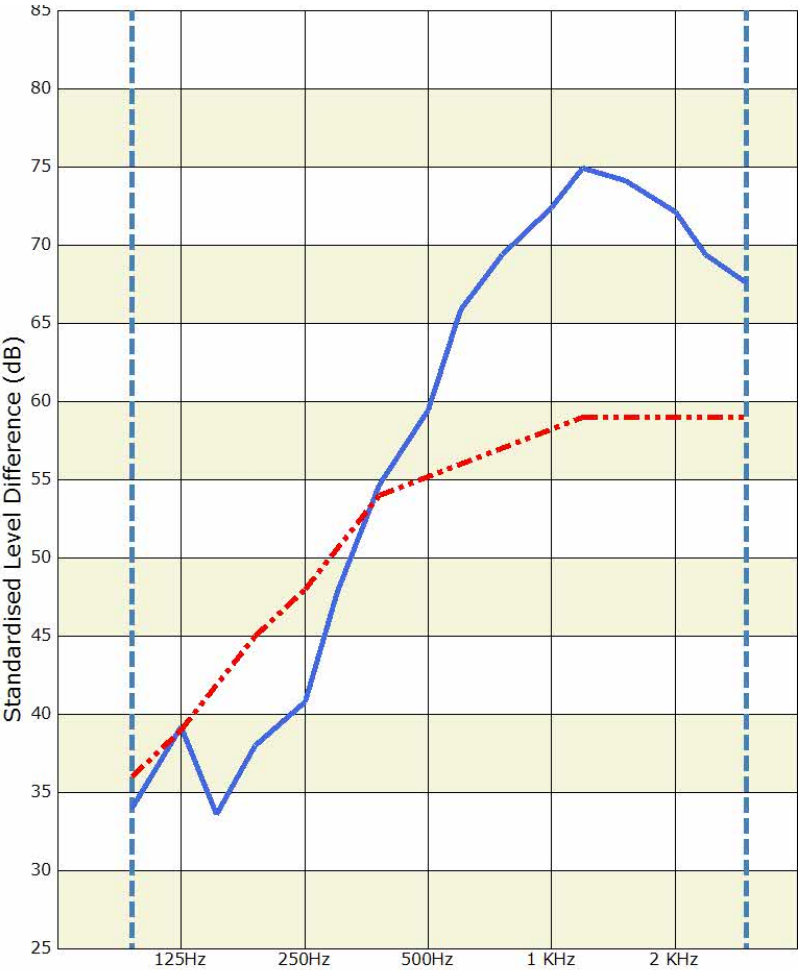
AIRBORNE SOUND INSULATION TEST: Approved Document E (2003) including 2004, 2010, 2013, and 2015 Amendments
BS EN ISO 140 - Part 4:1998: Acoustics - measurement of sound in buildings and of building elements
BS EN ISO 717 - Part 1:1997: Acoustics - rating of sound in buildings and of building elements

Registered Sound Insulation Test Certificate

Test No:	198051	Test Job Ref:	61768	Test Org Name:	Salveo Solutions
Customer:	Hamlet Homes			Test Type:	Airborne (Wall)
Address:	1 The Mill , Stane Street, Chichester	Job Address:	Elm Grove, , Hayling Island	Test Date:	12/02/2025
				Tester:	Kevin Hale
Postcode:	PO18 0FF	Postcode:	PO11 9EH	Site type:	New Build
				Site Build:	Dwelling- House/Flat
Source Room:		Partition:	Receiver Room:		
Description:	Apartment 5 Bedroom 1	WB0001**	Apartment 6 Kitchen / Living Room		
Volume / Area	33.1m³	9.6m²	58.1m³		

Frequency (Hz)	D_{nT}	Correction
50*	0	
63*	0	
80*	0	
100	34	
125	39.2	
160	33.6	
200	38	
250	40.8	
315	47.9	
400	54.7	
500	59.5	
630	65.9	
800	69.4	
1K	72.4	
1.25K	74.9	
1.6K	74.1	
2K	72.1	
2.5K	69.4	
3.15K	67.6	
4K*	0	
5K*	0	

Evaluation based on field measurement using results obtained by an engineering method



1/3rd Octave Band Frequency (Hz)

*Denotes Measurement outside the testers scope of certification & the scope of the SITMA Accreditation.	Above graph shows frequency range according to the curve of reference values within BS EN ISO 717-1
$D_{nT,w}$ (C; C_{tr}) [dB]: 55 (-3, -8) dB	PASS
$D_{nT,w} + C_{tr}$ [dB]: 47 dB	Adverse Aggregated Deviations
Minimum Pass Level [dB]: 45 dB	[dB]: 27.7

Partition Detail:Block wall with plasterboard and skimmed

Test Exceptions (if any): None Declared by Tester

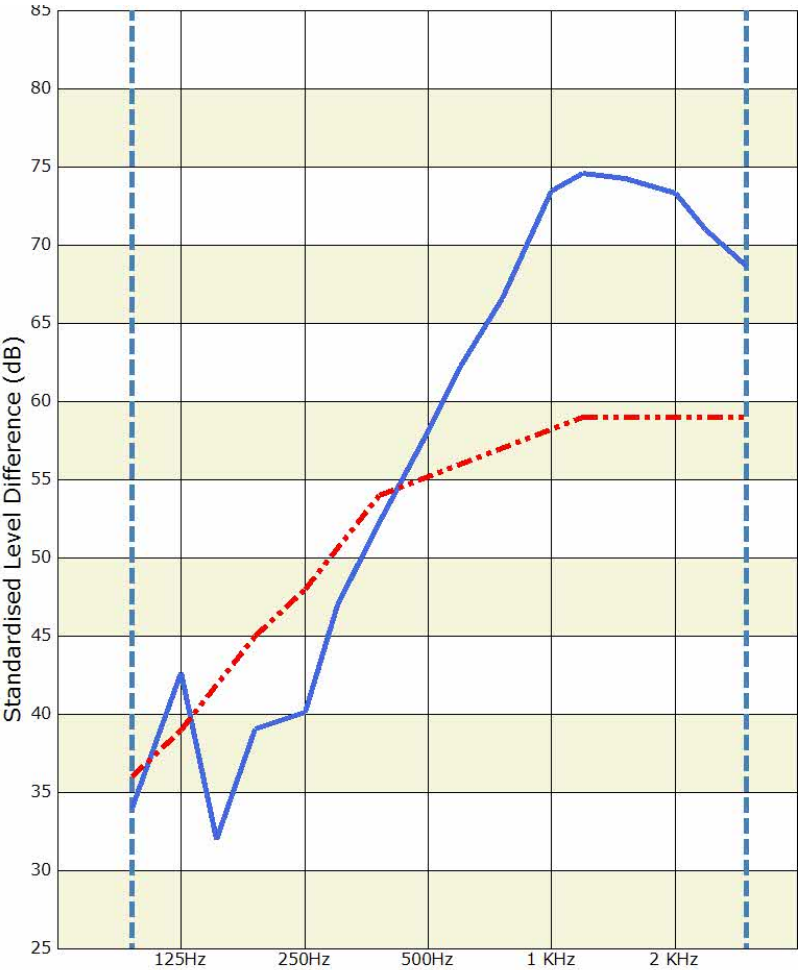
AIRBORNE SOUND INSULATION TEST: Approved Document E (2003) including 2004, 2010, 2013, and 2015 Amendments
BS EN ISO 140 - Part 4:1998: Acoustics - measurement of sound in buildings and of building elements
BS EN ISO 717 - Part 1:1997: Acoustics - rating of sound in buildings and of building elements

Registered Sound Insulation Test Certificate

Test No:	198052	Test Job Ref:	61768	Test Org Name:	Salveo Solutions
Customer:	Hamlet Homes			Test Type:	Airborne (Wall)
Address:	1 The Mill , Stane Street, Chichester	Job Address:	Elm Grove, , Hayling Island	Test Date:	12/02/2025
				Tester:	Kevin Hale
Postcode:	PO18 0FF	Postcode:	PO11 9EH	Site type:	New Build
				Site Build:	Dwelling- House/Flat
Source Room:		Partition:	Receiver Room:		
Description:	Apartment 12 Bedroom 1	WB0001**	Apartment 11 Bedroom 1		
Volume / Area	26.7m³	9.6m²	26.7m³		

Frequency (Hz)	D_{nT}	Correction
50*	0	
63*	0	
80*	0	
100	34	
125	42.7	
160	32	
200	39.1	
250	40.1	
315	47	
400	52.3	
500	58.1	
630	62.3	
800	66.6	
1K	73.5	
1.25K	74.6	X
1.6K	74.3	
2K	73.3	
2.5K	71	
3.15K	68.7	
4K*	0	
5K*	0	

Evaluation based on field measurement using results obtained by an engineering method



1/3rd Octave Band Frequency (Hz)

*Denotes Measurement outside the testers scope of certification & the scope of the SITMA Accreditation.	Above graph shows frequency range according to the curve of reference values within BS EN ISO 717-1
$D_{nT,w}$ (C; C_{tr}) [dB]: 55 (-3, -8) dB	PASS
$D_{nT,w} + C_{tr}$ [dB]: 47 dB	Adverse Aggregated Deviations
Minimum Pass Level [dB]: 45 dB	[dB]: 31.5

Partition Detail:Block wall with plasterboard and skimmed

Test Exceptions (if any): None Declared by Tester

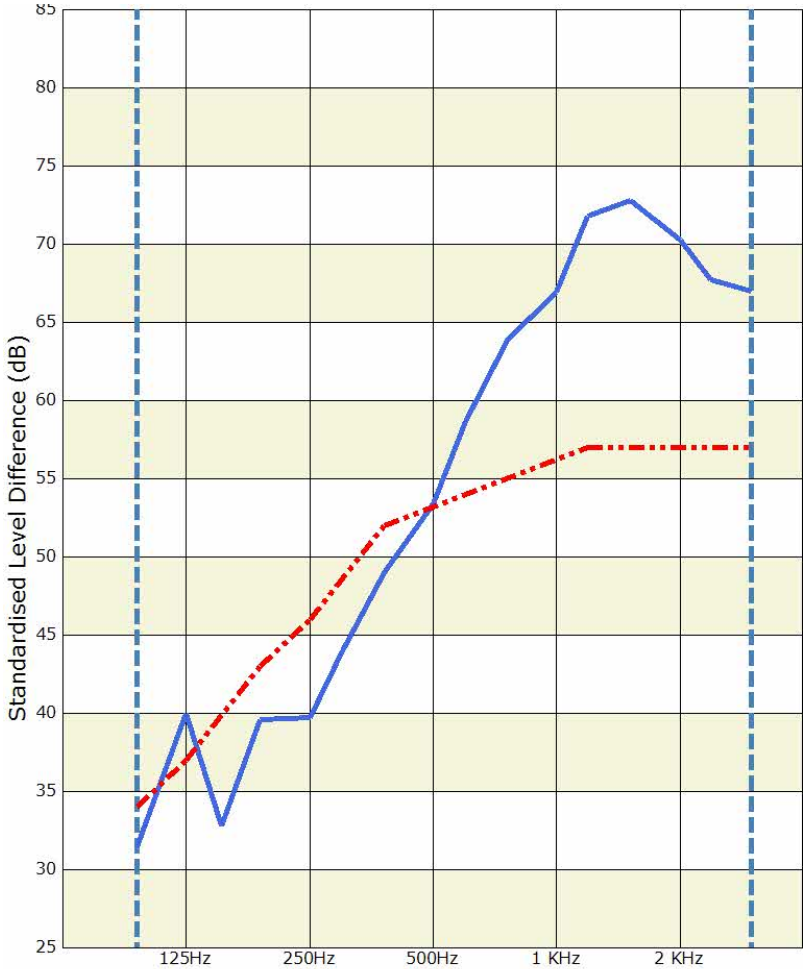
AIRBORNE SOUND INSULATION TEST: Approved Document E (2003) including 2004, 2010, 2013, and 2015 Amendments
BS EN ISO 140 - Part 4:1998: Acoustics - measurement of sound in buildings and of building elements
BS EN ISO 717 - Part 1:1997: Acoustics - rating of sound in buildings and of building elements

Registered Sound Insulation Test Certificate

Test No:	198053	Test Job Ref:	61768	Test Org Name:	Salveo Solutions
Customer:	Hamlet Homes			Test Type:	Airborne (Wall)
Address:	1 The Mill , Stane Street, Chichester	Job Address:	Elm Grove, , Hayling Island	Test Date:	12/02/2025
				Tester:	Kevin Hale
Postcode:	PO18 0FF	Postcode:	PO11 9EH	Site type:	New Build
				Site Build:	Dwelling- House/Flat
Source Room:		Partition:	Receiver Room:		
Description:	Apartment 12 Kitchen / Living Room	WB0001**	Apartment 13 Kitchen / Living Room		
Volume / Area	70.6m³	15.8m²	58.8m³		

Frequency (Hz)	D_{nT}	Correction
50*	0	
63*	0	
80*	0	
100	31.5	
125	40	
160	32.8	
200	39.6	
250	39.7	
315	44	
400	49	
500	53.4	
630	58.7	
800	63.9	
1K	66.9	
1.25K	71.8	
1.6K	72.8	
2K	70.3	
2.5K	67.7	
3.15K	67	
4K*	0	
5K*	0	

Evaluation based on field measurement using results obtained by an engineering method



1/3rd Octave Band Frequency (Hz)

*Denotes Measurement outside the testers scope of certification & the scope of the SITMA Accreditation.	Above graph shows frequency range according to the curve of reference values within BS EN ISO 717-1
$D_{nT,w}$ (C; C_{tr}) [dB]: 53 (-2, -7) dB	PASS
$D_{nT,w} + C_{tr}$ [dB]: 46 dB	Adverse Aggregated Deviations [dB]: 27.4
Minimum Pass Level [dB]: 45 dB	

Partition Detail:Block wall with plasterboard and skimmed

Test Exceptions (if any): None Declared by Tester

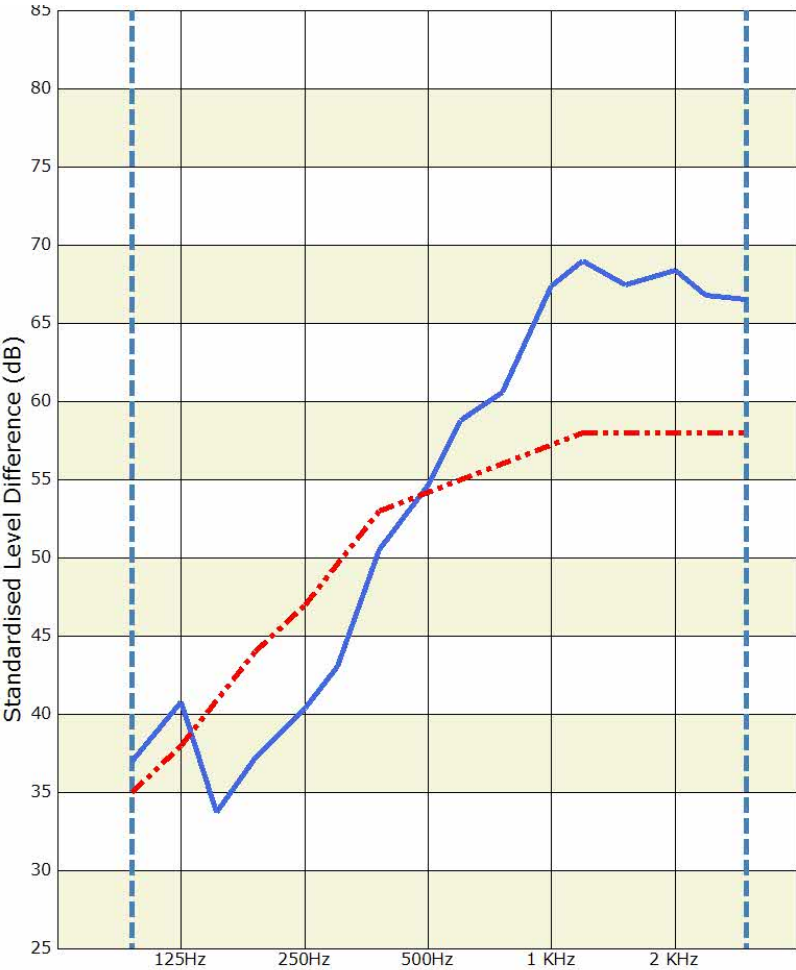
AIRBORNE SOUND INSULATION TEST: Approved Document E (2003) including 2004, 2010, 2013, and 2015 Amendments
BS EN ISO 140 - Part 4:1998: Acoustics - measurement of sound in buildings and of building elements
BS EN ISO 717 - Part 1:1997: Acoustics - rating of sound in buildings and of building elements

Registered Sound Insulation Test Certificate

Test No:	198054	Test Job Ref:	61768	Test Org Name:	Salveo Solutions
Customer:	Hamlet Homes			Test Type:	Airborne (Wall)
Address:	1 The Mill , Stane Street, Chichester	Job Address:	Elm Grove, , Hayling Island	Test Date:	12/02/2025
				Tester:	Kevin Hale
Postcode:	PO18 0FF	Postcode:	PO11 9EH	Site type:	New Build
				Site Build:	Dwelling- House/Flat
Source Room:		Partition:	Receiver Room:		
Description:	Apartment 5 Kitchen / Living Room	WB0001**	Apartment 4 Bedroom 1		
Volume / Area	62.2m³	7.2m²	26.4m³		

Frequency (Hz)	D_{nT}	Correction
50*	0	
63*	0	
80*	0	
100	37	
125	40.8	
160	33.7	
200	37.2	
250	40.4	
315	43.1	
400	50.5	
500	54.7	
630	58.8	
800	60.6	
1K	67.4	
1.25K	69	
1.6K	67.5	
2K	68.4	
2.5K	66.8	
3.15K	66.5	
4K*	0	
5K*	0	

Evaluation based on field measurement using results obtained by an engineering method



1/3rd Octave Band Frequency (Hz)

*Denotes Measurement outside the testers scope of certification & the scope of the SITMA Accreditation.	Above graph shows frequency range according to the curve of reference values within BS EN ISO 717-1
$D_{nT,w}$ (C; C_{tr}) [dB]: 54 (-2, -7) dB	PASS
$D_{nT,w} + C_{tr}$ [dB]: 47 dB	Adverse Aggregated Deviations
Minimum Pass Level [dB]: 45 dB	[dB]: 30.1

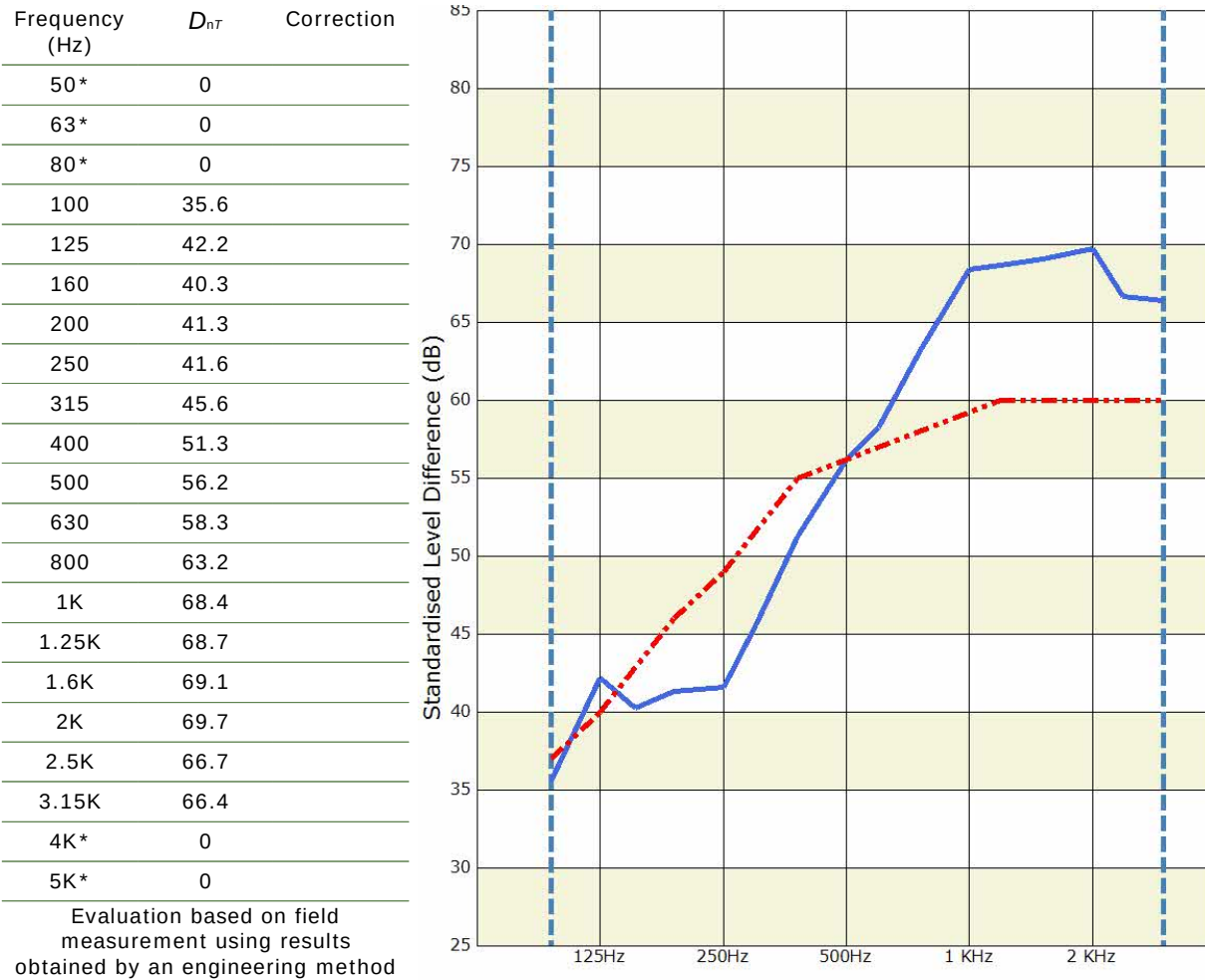
Partition Detail:Block wall with plasterboard and skimmed

Test Exceptions (if any): None Declared by Tester

AIRBORNE SOUND INSULATION TEST: Approved Document E (2003) including 2004, 2010, 2013, and 2015 Amendments
BS EN ISO 140 - Part 4:1998: Acoustics - measurement of sound in buildings and of building elements
BS EN ISO 717 - Part 1:1997: Acoustics - rating of sound in buildings and of building elements

Registered Sound Insulation Test Certificate

Test No:	198055	Test Job Ref:	61768	Test Org Name:	Salveo Solutions
Customer:	Hamlet Homes			Test Type:	Airborne (Wall)
Address:	1 The Mill , Stane Street, Chichester	Job Address:	Elm Grove, , Hayling Island	Test Date:	12/02/2025
				Tester:	Kevin Hale
Postcode:	PO18 0FF	Postcode:	PO11 9EH	Site type:	New Build
				Site Build:	Dwelling- House/Flat
Source Room:		Partition:	Receiver Room:		
Description:	Apartment 20 Bedroom 1	WB0001**	Apartment 21 Bedroom 1		
Volume / Area	25.7m³	7.2m²	25.7m³		



*Denotes Measurement outside the testers scope of certification & the scope of the SITMA Accreditation.	Above graph shows frequency range according to the curve of reference values within BS EN ISO 717-1
$D_{nT,w}$ (C; C_{tr}) [dB]: 56 (-2, -6) dB	PASS
$D_{nT,w} + C_{tr}$ [dB]: 50 dB	Adverse Aggregated Deviations
Minimum Pass Level [dB]: 45 dB	[dB]: 26.3

Partition Detail:Block wall with plasterboard and skimmed

Test Exceptions (if any): None Declared by Tester

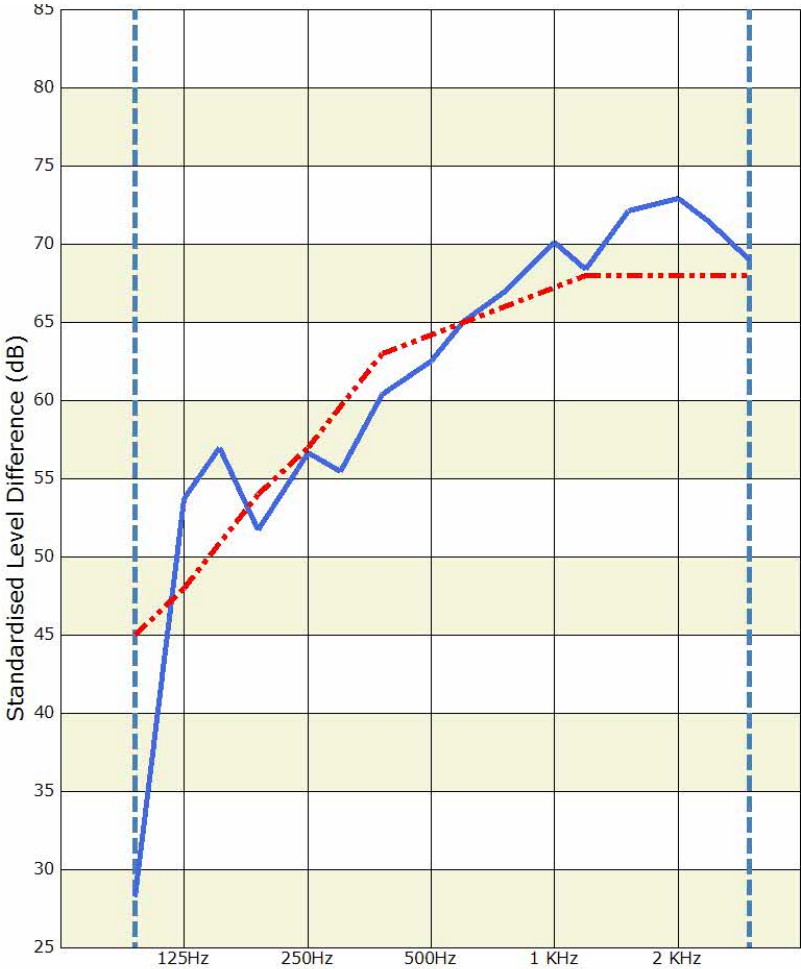
AIRBORNE SOUND INSULATION TEST: Approved Document E (2003) including 2004, 2010, 2013, and 2015 Amendments
BS EN ISO 140 - Part 4:1998: Acoustics - measurement of sound in buildings and of building elements
BS EN ISO 717 - Part 1:1997: Acoustics - rating of sound in buildings and of building elements

Registered Sound Insulation Test Certificate

Test No:	198056	Test Job Ref:	61768	Test Org Name:	Salveo Solutions
Customer:	Hamlet Homes			Test Type:	Airborne (Floor)
Address:	1 The Mill , Stane Street, Chichester	Job Address:	Elm Grove, , Hayling Island	Test Date:	12/02/2025
				Tester:	Kevin Hale
Postcode:	PO18 0FF	Postcode:	PO11 9EH	Site type:	New Build
				Site Build:	Dwelling- House/Flat
Source Room:		Partition:	Receiver Room:		
Description:	Apartment 38 Kitchen / Living Room	FC0001**	Apartment 26 Kitchen / Living Room		
Volume / Area	64.8m³	27.0m²	71.0m³		

Frequency (Hz)	D_{nT}	Correction
50*	0	
63*	0	
80*	0	
100	28.3	X
125	53.7	
160	57	
200	51.7	
250	56.7	
315	55.5	
400	60.4	
500	62.5	
630	65.1	
800	67	
1K	70.1	X
1.25K	68.4	X
1.6K	72.1	X
2K	72.9	X
2.5K	71.5	X
3.15K	69	X
4K*	0	
5K*	0	

Evaluation based on field measurement using results obtained by an engineering method



1/3rd Octave Band Frequency (Hz)

*Denotes Measurement outside the testers scope of certification & the scope of the SITMA Accreditation.	Above graph shows frequency range according to the curve of reference values within BS EN ISO 717-1
$D_{nT,w}$ (C; C_{tr}) [dB]: 64 (-7, -16) dB	PASS
$D_{nT,w} + C_{tr}$ [dB]: 48 dB	Adverse Aggregated Deviations [dB]: 27.9
Minimum Pass Level [dB]: 45 dB	

Partition Detail:Concrete floor

Test Exceptions (if any): None Declared by Tester

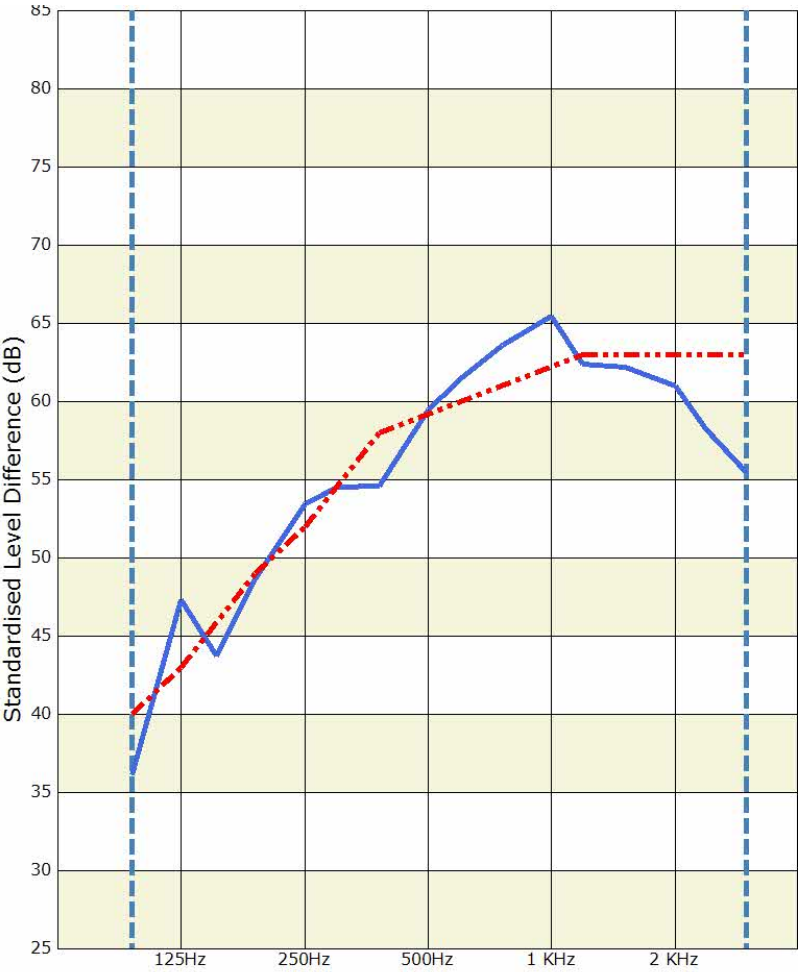
AIRBORNE SOUND INSULATION TEST: Approved Document E (2003) including 2004, 2010, 2013, and 2015 Amendments
BS EN ISO 140 - Part 4:1998: Acoustics - measurement of sound in buildings and of building elements
BS EN ISO 717 - Part 1:1997: Acoustics - rating of sound in buildings and of building elements

Registered Sound Insulation Test Certificate

Test No:	198057	Test Job Ref:	61768	Test Org Name:	Salveo Solutions
Customer:	Hamlet Homes			Test Type:	Airborne (Floor)
Address:	1 The Mill , Stane Street, Chichester	Job Address:	Elm Grove, , Hayling Island	Test Date:	12/02/2025
				Tester:	Kevin Hale
Postcode:	PO18 0FF	Postcode:	PO11 9EH	Site type:	New Build
				Site Build:	Dwelling- House/Flat
Source Room:		Partition:	Receiver Room:		
Description:	Apartment 38 Bedroom 1	FC0001**	Apartment 26 Bedroom 1		
Volume / Area	36.9m³	10.9m²	26.2m³		

Frequency (Hz)	D_{nT}	Correction
50*	0	
63*	0	
80*	0	
100	36.1	X
125	47.3	
160	43.7	
200	48.7	
250	53.5	
315	54.5	
400	54.6	
500	59.5	
630	61.5	
800	63.6	X
1K	65.5	
1.25K	62.4	X
1.6K	62.2	X
2K	61	
2.5K	58.3	
3.15K	55.5	
4K*	0	
5K*	0	

Evaluation based on field measurement using results obtained by an engineering method



1/3rd Octave Band Frequency (Hz)

*Denotes Measurement outside the testers scope of certification & the scope of the SITMA Accreditation.	Above graph shows frequency range according to the curve of reference values within BS EN ISO 717-1
$D_{nT,w}$ (C; C_{tr}) [dB]: 59 (-2, -6) dB	PASS
$D_{nT,w} + C_{tr}$ [dB]: 53 dB	Adverse Aggregated Deviations
Minimum Pass Level [dB]: 45 dB	[dB]: 26.0

Partition Detail:Concrete floor

Test Exceptions (if any): None Declared by Tester

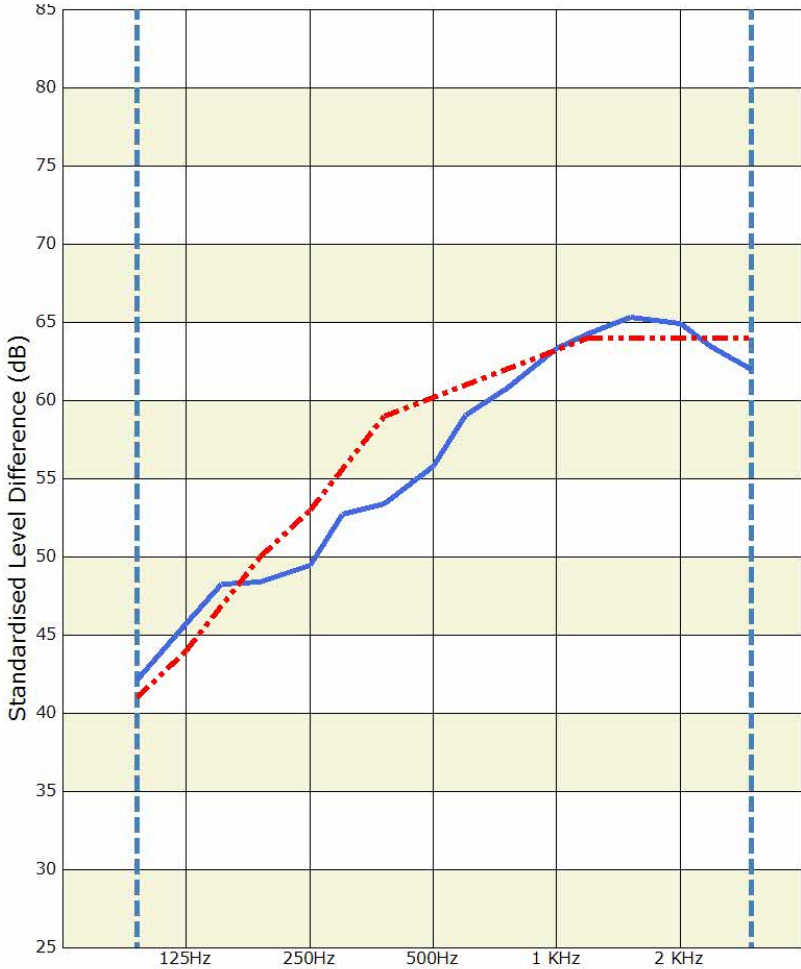
AIRBORNE SOUND INSULATION TEST: Approved Document E (2003) including 2004, 2010, 2013, and 2015 Amendments
BS EN ISO 140 - Part 4:1998: Acoustics - measurement of sound in buildings and of building elements
BS EN ISO 717 - Part 1:1997: Acoustics - rating of sound in buildings and of building elements

Registered Sound Insulation Test Certificate

Test No:	198058	Test Job Ref:	61768	Test Org Name:	Salveo Solutions
Customer:	Hamlet Homes			Test Type:	Airborne (Floor)
Address:	1 The Mill , Stane Street, Chichester	Job Address:	Elm Grove, , Hayling Island	Test Date:	12/02/2025
				Tester:	Kevin Hale
Postcode:	PO18 0FF	Postcode:	PO11 9EH	Site type:	New Build
				Site Build:	Dwelling- House/Flat
Source Room:		Partition:	Receiver Room:		
Description:	Apartment 33 Kitchen / Living Room	FC0001**	Apartment 20 Kitchen / Living Room		
Volume / Area	61.2m³	24.5m²	58.8m³		

Frequency (Hz)	D_{nT}	Correction
50*	0	
63*	0	
80*	0	
100	42.1	X
125	45.7	
160	48.3	
200	48.4	
250	49.5	
315	52.7	
400	53.4	
500	55.8	
630	59.1	
800	60.8	
1K	63.3	
1.25K	64.3	
1.6K	65.3	
2K	64.9	
2.5K	63.5	
3.15K	62	
4K*	0	
5K*	0	

Evaluation based on field measurement using results obtained by an engineering method



1/3rd Octave Band Frequency (Hz)

*Denotes Measurement outside the testers scope of certification & the scope of the SITMA Accreditation.	Above graph shows frequency range according to the curve of reference values within BS EN ISO 717-1
$D_{nT,w}$ (C; C_{tr}) [dB]: 60 (-1, -5) dB	PASS
$D_{nT,w} + C_{tr}$ [dB]: 55 dB	Adverse Aggregated Deviations [dB]: 23.8
Minimum Pass Level [dB]: 45 dB	

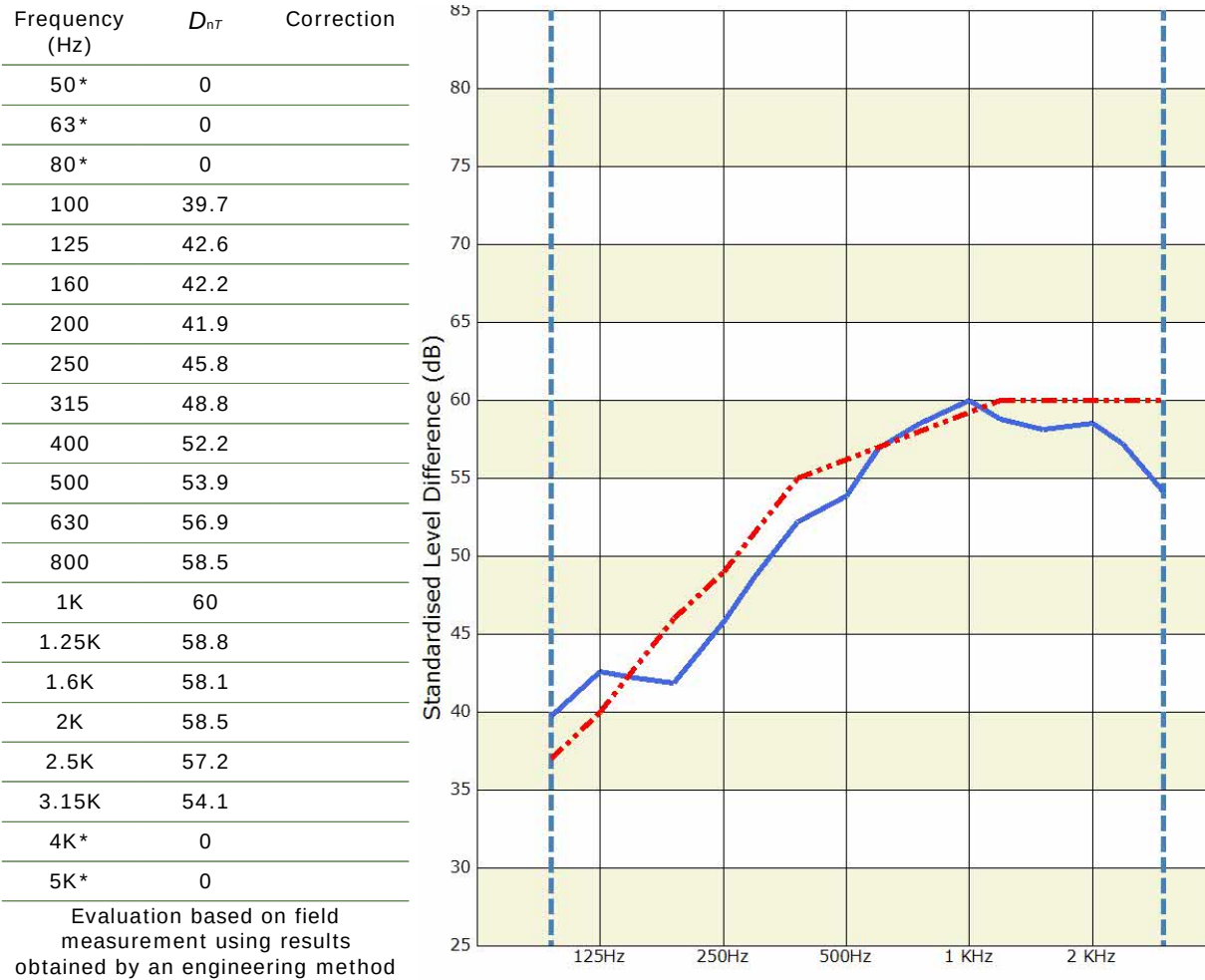
Partition Detail:Concrete floor

Test Exceptions (if any): None Declared by Tester

AIRBORNE SOUND INSULATION TEST: Approved Document E (2003) including 2004, 2010, 2013, and 2015 Amendments
BS EN ISO 140 - Part 4:1998: Acoustics - measurement of sound in buildings and of building elements
BS EN ISO 717 - Part 1:1997: Acoustics - rating of sound in buildings and of building elements

Registered Sound Insulation Test Certificate

Test No:	198059	Test Job Ref:	61768	Test Org Name:	Salveo Solutions
Customer:	Hamlet Homes			Test Type:	Airborne (Floor)
Address:	1 The Mill , Stane Street, Chichester	Job Address:	Elm Grove, , Hayling Island	Test Date:	12/02/2025
				Tester:	Kevin Hale
Postcode:	PO18 0FF	Postcode:	PO11 9EH	Site type:	New Build
				Site Build:	Dwelling- House/Flat
Source Room:		Partition:	Receiver Room:		
Description:	Apartment 33 Bedroom 1	FC0001**	Apartment 19 Bedroom 1		
Volume / Area	33.6m³	13.5m²	32.5m³		



1/3rd Octave Band Frequency (Hz)

*Denotes Measurement outside the testers scope of certification & the scope of the SITMA Accreditation.	Above graph shows frequency range according to the curve of reference values within BS EN ISO 717-1
$D_{nT,w}$ (C; C_{tr}) [dB]: 56 (-2, -5) dB	PASS
$D_{nT,w} + C_{tr}$ [dB]: 51 dB	Adverse Aggregated Deviations
Minimum Pass Level [dB]: 45 dB	[dB]: 29.6

Partition Detail:Concrete floor

Test Exceptions (if any): None Declared by Tester

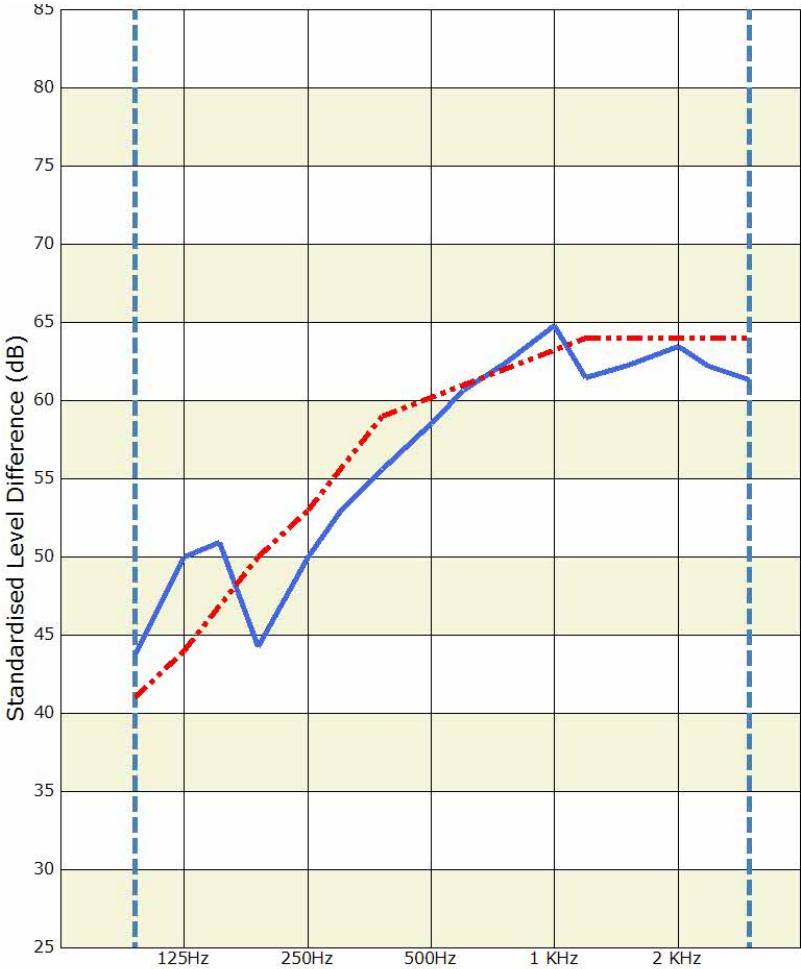
AIRBORNE SOUND INSULATION TEST: Approved Document E (2003) including 2004, 2010, 2013, and 2015 Amendments
BS EN ISO 140 - Part 4:1998: Acoustics - measurement of sound in buildings and of building elements
BS EN ISO 717 - Part 1:1997: Acoustics - rating of sound in buildings and of building elements

Registered Sound Insulation Test Certificate

Test No:	198060	Test Job Ref:	61768	Test Org Name:	Salveo Solutions
Customer:	Hamlet Homes			Test Type:	Airborne (Floor)
Address:	1 The Mill , Stane Street, Chichester	Job Address:	Elm Grove, , Hayling Island	Test Date:	12/02/2025
				Tester:	Kevin Hale
Postcode:	PO18 0FF	Postcode:	PO11 9EH	Site type:	New Build
				Site Build:	Dwelling- House/Flat
Source Room:		Partition:	Receiver Room:		
Description:	Apartment 26 Kitchen / Living Room	FC0001**	Apartment 12 Kitchen / Living Room		
Volume / Area	71.0m³	29.4m²	70.6m³		

Frequency (Hz)	D_{nT}	Correction
50*	0	
63*	0	
80*	0	
100	43.7	X
125	50	
160	50.9	
200	44.3	
250	50	
315	52.9	
400	55.6	
500	58.5	
630	60.7	
800	62.4	
1K	64.8	
1.25K	61.5	
1.6K	62.3	
2K	63.5	
2.5K	62.2	
3.15K	61.3	
4K*	0	
5K*	0	

Evaluation based on field measurement using results obtained by an engineering method



1/3rd Octave Band Frequency (Hz)

*Denotes Measurement outside the testers scope of certification & the scope of the SITMA Accreditation.	Above graph shows frequency range according to the curve of reference values within BS EN ISO 717-1
$D_{nT,w}$ (C; C_{tr}) [dB]: 60 (-1, -4) dB	PASS
$D_{nT,w} + C_{tr}$ [dB]: 56 dB	Adverse Aggregated Deviations [dB]: 26.2
Minimum Pass Level [dB]: 45 dB	

Partition Detail:Concrete floor

Test Exceptions (if any): None Declared by Tester

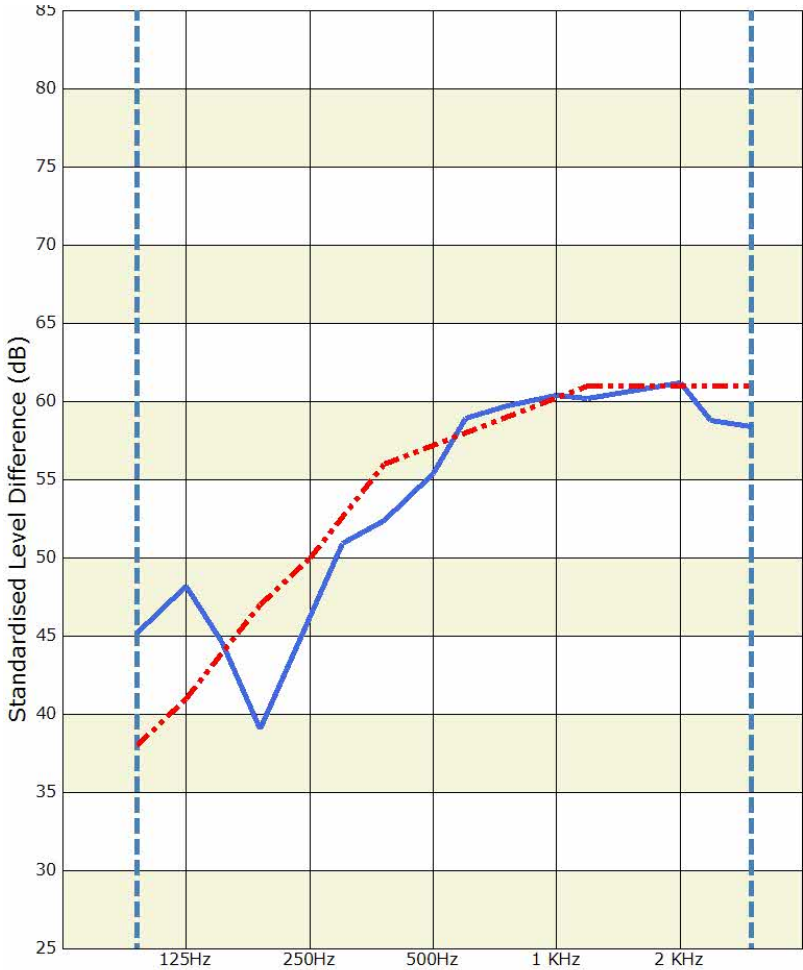
AIRBORNE SOUND INSULATION TEST: Approved Document E (2003) including 2004, 2010, 2013, and 2015 Amendments
BS EN ISO 140 - Part 4:1998: Acoustics - measurement of sound in buildings and of building elements
BS EN ISO 717 - Part 1:1997: Acoustics - rating of sound in buildings and of building elements

Registered Sound Insulation Test Certificate

Test No:	198061	Test Job Ref:	61768	Test Org Name:	Salveo Solutions
Customer:	Hamlet Homes			Test Type:	Airborne (Floor)
Address:	1 The Mill , Stane Street, Chichester	Job Address:	Elm Grove, , Hayling Island	Test Date:	12/02/2025
				Tester:	Kevin Hale
Postcode:	PO18 0FF	Postcode:	PO11 9EH	Site type:	New Build
				Site Build:	Dwelling- House/Flat
Source Room:		Partition:	Receiver Room:		
Description:	Apartment 26 Bedroom 1	FC0001**	Apartment 12 Bedroom 1		
Volume / Area	26.2m³	10.9m²	26.7m³		

Frequency (Hz)	D_{nT}	Correction
50*	0	
63*	0	
80*	0	
100	45.2	X
125	48.2	
160	44.7	
200	39.1	
250	46.3	
315	50.9	
400	52.4	
500	55.4	
630	58.9	
800	59.7	
1K	60.4	
1.25K	60.2	
1.6K	60.7	
2K	61.2	
2.5K	58.8	
3.15K	58.4	
4K*	0	
5K*	0	

Evaluation based on field measurement using results obtained by an engineering method



1/3rd Octave Band Frequency (Hz)

*Denotes Measurement outside the testers scope of certification & the scope of the SITMA Accreditation.	Above graph shows frequency range according to the curve of reference values within BS EN ISO 717-1
$D_{nT,w}$ (C; C_{tr}) [dB]: 57 (-2, -5) dB	PASS
$D_{nT,w} + C_{tr}$ [dB]: 52 dB	Adverse Aggregated Deviations
Minimum Pass Level [dB]: 45 dB	[dB]: 24.8

Partition Detail:Concrete floor

Test Exceptions (if any): None Declared by Tester

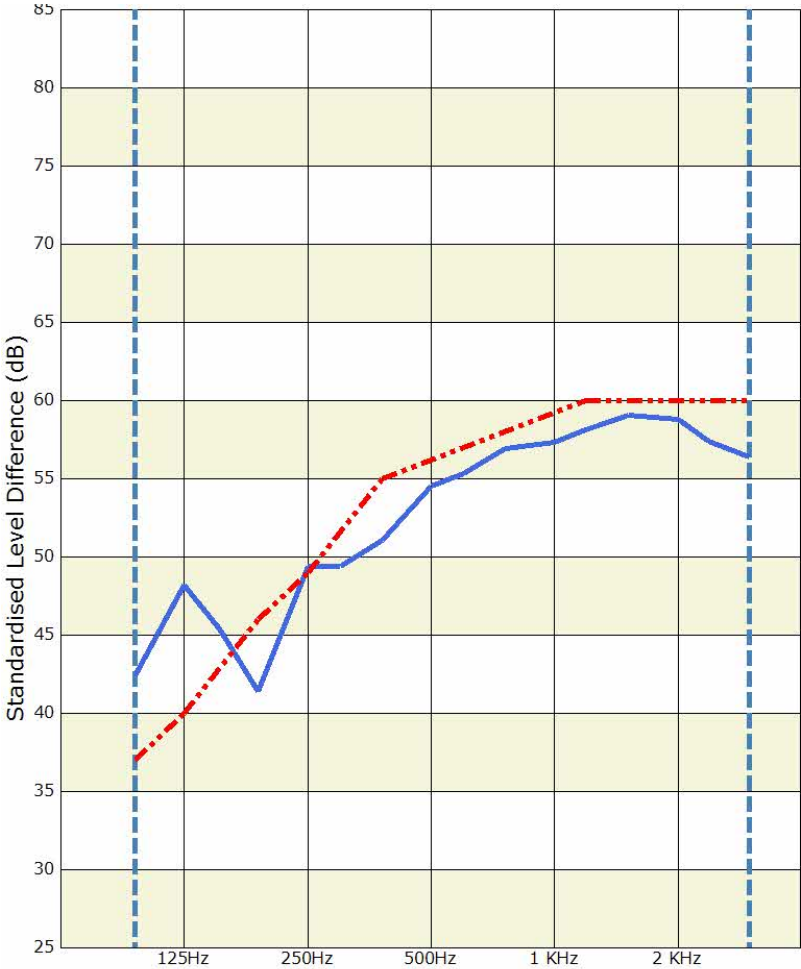
AIRBORNE SOUND INSULATION TEST: Approved Document E (2003) including 2004, 2010, 2013, and 2015 Amendments
BS EN ISO 140 - Part 4:1998: Acoustics - measurement of sound in buildings and of building elements
BS EN ISO 717 - Part 1:1997: Acoustics - rating of sound in buildings and of building elements

Registered Sound Insulation Test Certificate

Test No:	198062	Test Job Ref:	61768	Test Org Name:	Salveo Solutions
Customer:	Hamlet Homes			Test Type:	Airborne (Floor)
Address:	1 The Mill , Stane Street, Chichester	Job Address:	Elm Grove, , Hayling Island	Test Date:	12/02/2025
				Tester:	Kevin Hale
Postcode:	PO18 0FF	Postcode:	PO11 9EH	Site type:	New Build
				Site Build:	Dwelling- House/Flat
Source Room:		Partition:	Receiver Room:		
Description:	Apartment 19 Kitchen / Living Room	FC0001**	Apartment 5 Kitchen / Living Room		
Volume / Area	58.8m³	24.2m²	62.2m³		

Frequency (Hz)	D_{nT}	Correction
50*	0	
63*	0	
80*	0	
100	42.4	
125	48.2	
160	45.4	
200	41.4	
250	49.4	
315	49.4	
400	51.1	
500	54.5	
630	55.3	
800	56.9	
1K	57.3	
1.25K	58.1	
1.6K	59.1	
2K	58.8	
2.5K	57.4	
3.15K	56.4	
4K*	0	
5K*	0	

Evaluation based on field measurement using results obtained by an engineering method



1/3rd Octave Band Frequency (Hz)

*Denotes Measurement outside the testers scope of certification & the scope of the SITMA Accreditation.	Above graph shows frequency range according to the curve of reference values within BS EN ISO 717-1
$D_{nT,w}$ (C; C_{tr}) [dB]: 56 (-1, -4) dB	PASS
$D_{nT,w} + C_{tr}$ [dB]: 52 dB	Adverse Aggregated Deviations [dB]: 27.3
Minimum Pass Level [dB]: 45 dB	

Partition Detail:Concrete floor

Test Exceptions (if any): None Declared by Tester

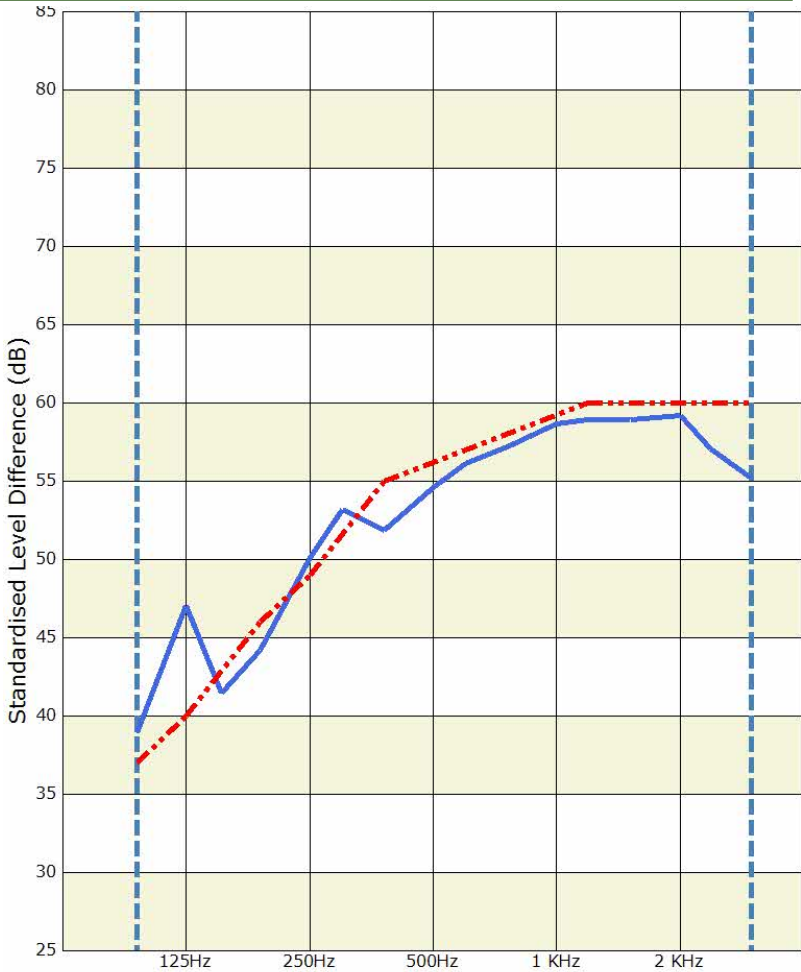
AIRBORNE SOUND INSULATION TEST: Approved Document E (2003) including 2004, 2010, 2013, and 2015 Amendments
BS EN ISO 140 - Part 4:1998: Acoustics - measurement of sound in buildings and of building elements
BS EN ISO 717 - Part 1:1997: Acoustics - rating of sound in buildings and of building elements

Registered Sound Insulation Test Certificate

Test No:	198063	Test Job Ref:	61768	Test Org Name:	Salveo Solutions
Customer:	Hamlet Homes			Test Type:	Airborne (Floor)
Address:	1 The Mill , Stane Street, Chichester	Job Address:	Elm Grove, , Hayling Island	Test Date:	12/02/2025
				Tester:	Kevin Hale
Postcode:	PO18 0FF	Postcode:	PO11 9EH	Site type:	New Build
				Site Build:	Dwelling- House/Flat
Source Room:		Partition:	Receiver Room:		
Description:	Apartment 19 Bedroom 1		Apartment 5 Bedroom 1		
Volume / Area	32.5m³	13.5m²	33.1m³		

Frequency (Hz)	D_{nT}	Correction
50*	0	
63*	0	
80*	0	
100	38.9	
125	47.1	
160	41.5	
200	44.2	
250	50.1	
315	53.2	
400	51.9	
500	54.6	
630	56.1	
800	57.2	
1K	58.7	
1.25K	58.9	
1.6K	58.9	
2K	59.2	
2.5K	57.1	
3.15K	55.2	
4K*	0	
5K*	0	

Evaluation based on field measurement using results obtained by an engineering method



1/3rd Octave Band Frequency (Hz)

*Denotes Measurement outside the testers scope of certification & the scope of the SITMA Accreditation.	Above graph shows frequency range according to the curve of reference values within BS EN ISO 717-1
$D_{nT,w}$ (C; C_{tr}) [dB]: 56 (-1, -4) dB	PASS
$D_{nT,w} + C_{tr}$ [dB]: 52 dB	Adverse Aggregated Deviations
Minimum Pass Level [dB]: 45 dB	[dB]: 20.5

Partition Detail:Concrete floor

Test Exceptions (if any): None Declared by Tester

AIRBORNE SOUND INSULATION TEST: Approved Document E (2003) including 2004, 2010, 2013, and 2015 Amendments
BS EN ISO 140 - Part 4:1998: Acoustics - measurement of sound in buildings and of building elements
BS EN ISO 717 - Part 1:1997: Acoustics - rating of sound in buildings and of building elements

Registered Impact Test Certificate

Test No:	198064	Test Job Ref:	61768	Test Org Name:	Salveo Solutions
Customer:	Hamlet Homes			Test Type:	Impact (Floor)
Address:	1 The Mill , Stane Street, Chichester	Job Address:	Elm Grove, , Hayling Island	Test Date:	12/02/2025
				Tester:	Kevin Hale
Postcode:	PO18 0FF	Postcode:	PO11 9EH	Site type:	New Build
				Site Build:	Dwelling- House/Flat
Source Room:		Partition:	Receiver Room:		
Description:	Apartment 38 Kitchen / Living Room	FC0001**	Apartment 26 Kitchen / Living Room		
Volume / Area	64.8m³	27.0m²	71.0m³		

Frequency (Hz)	L _{nT} 1/3 Octave (dB)	Correction
50*	0	
63*	0	
80*	0	
100	49.8	
125	47.4	
160	47.9	
200	49.3	
250	43.4	
315	45.4	
400	42	
500	43.3	
630	39.1	
800	41.8	
1K	39	
1.25K	37.7	
1.6K	37.2	
2K	33.1	
2.5K	33.1	
3.15K	32.4	X
4K*	0	
5K*	0	

Evaluation based on field measurement using results obtained by an engineering method



1/3rd Octave Band Frequency (Hz)

*Denotes Measurement outside the testers scope of certification & the scope of the SITMA Accreditation. Above graph shows frequency range according to the curve of reference values within BS EN ISO 717-2

L_{nT,w} (CI) [dB]: 44 (-3) dB
Maximum Pass Level [dB]: 62 dB

PASS
Adverse Aggregated Deviations [dB]: 24.2

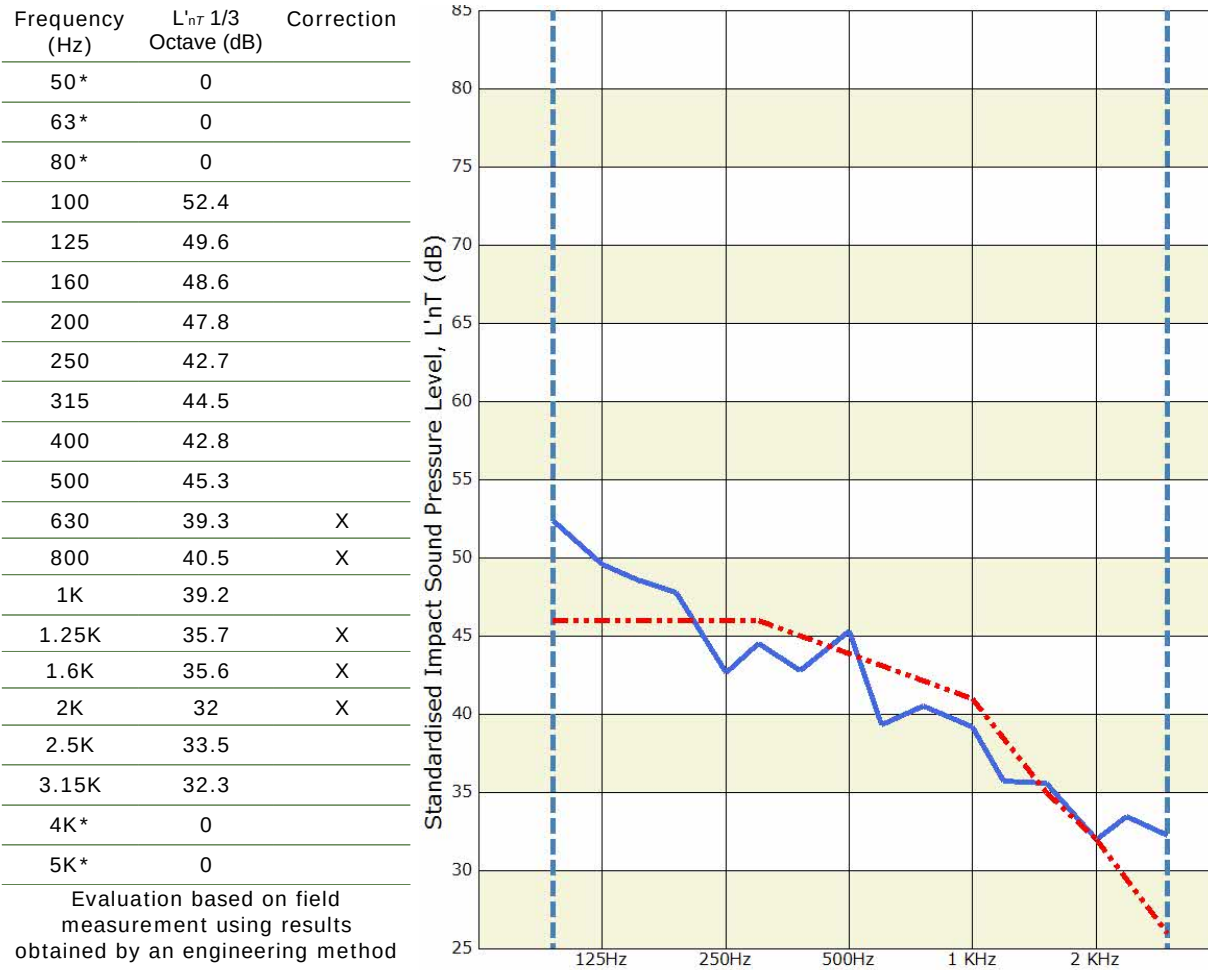
Partition Detail:Concrete floor

Test Exceptions (if any): None Declared by Tester

IMPACT SOUND INSULATION TEST: Approved Document E (2003) including 2004, 2010, 2013, and 2015 Amendments
BS EN ISO 140 - Part 7:1998: Acoustics - measurement of sound in buildings and of building elements
BS EN ISO 717 - Part 2:1997: Acoustics - rating of sound in buildings and of building elements

Registered Impact Test Certificate

Test No:	198065	Test Job Ref:	61768	Test Org Name:	Salveo Solutions
Customer:	Hamlet Homes			Test Type:	Impact (Floor)
Address:	1 The Mill , Stane Street, Chichester	Job Address:	Elm Grove, , Hayling Island	Test Date:	12/02/2025
				Tester:	Kevin Hale
Postcode:	PO18 0FF	Postcode:	PO11 9EH	Site type:	New Build
				Site Build:	Dwelling- House/Flat
Source Room:		Partition:	Receiver Room:		
Description:	Apartment 38 Bedroom 1	FC0001**	Apartment 26 Bedroom 1		
Volume / Area	36.9m³	10.9m²	26.2m³		



1/3rd Octave Band Frequency (Hz)

*Denotes Measurement outside the testers scope of certification & the scope of the SITMA Accreditation.	Above graph shows frequency range according to the curve of reference values within BS EN ISO 717-2
L'nT,w (CI) [dB]: 44 (-2) dB	PASS
Maximum Pass Level [dB]: 62 dB	Adverse Aggregated Deviations [dB]: 27.1

Partition Detail:Concrete floor

Test Exceptions (if any): None Declared by Tester

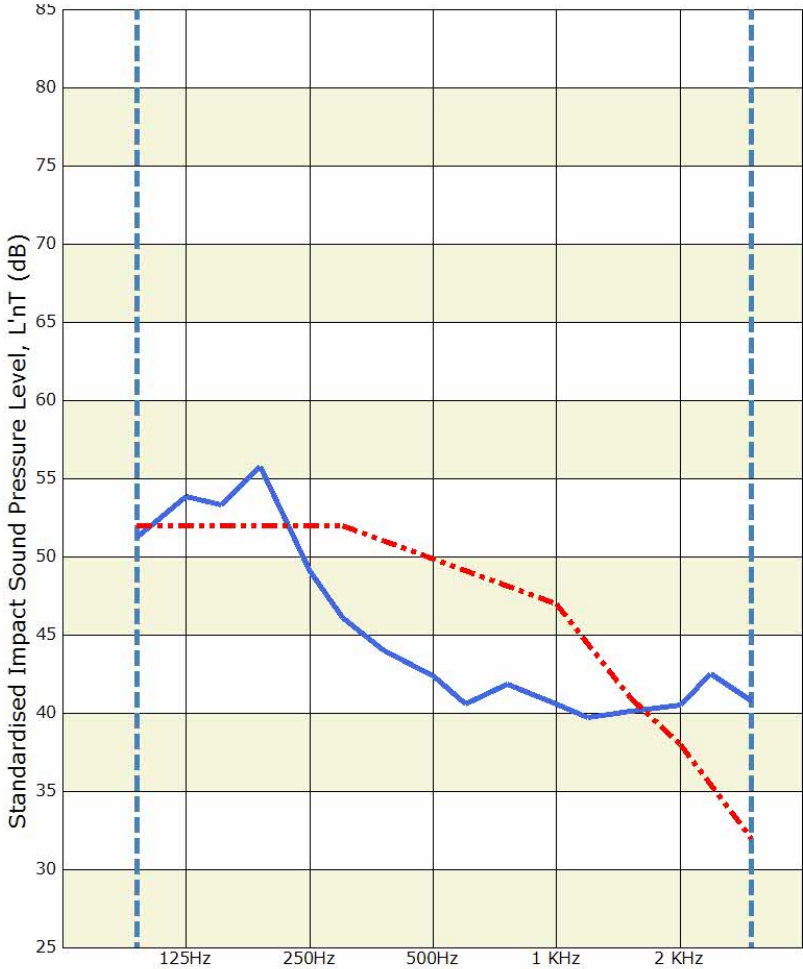
IMPACT SOUND INSULATION TEST: Approved Document E (2003) including 2004, 2010, 2013, and 2015 Amendments
BS EN ISO 140 - Part 7:1998: Acoustics - measurement of sound in buildings and of building elements
BS EN ISO 717 - Part 2:1997: Acoustics - rating of sound in buildings and of building elements

Registered Impact Test Certificate

Test No:	198066	Test Job Ref:	61768	Test Org Name:	Salveo Solutions
Customer:	Hamlet Homes			Test Type:	Impact (Floor)
Address:	1 The Mill , Stane Street, Chichester	Job Address:	Elm Grove, , Hayling Island	Test Date:	12/02/2025
				Tester:	Kevin Hale
Postcode:	PO18 0FF	Postcode:	PO11 9EH	Site type:	New Build
				Site Build:	Dwelling- House/Flat
Source Room:		Partition:	Receiver Room:		
Description:	Apartment 33 Kitchen / Living Room		Apartment 20 Kitchen / Living Room		
Volume / Area	61.2m³		24.5m²	58.8m³	

Frequency (Hz)	L _{nT} 1/3 Octave (dB)	Correction
50*	0	
63*	0	
80*	0	
100	51.3	
125	53.9	
160	53.3	
200	55.8	
250	49.1	
315	46.1	
400	44	
500	42.4	
630	40.6	
800	41.9	
1K	40.6	
1.25K	39.7	
1.6K	40.1	
2K	40.5	
2.5K	42.5	
3.15K	40.8	
4K*	0	
5K*	0	

Evaluation based on field measurement using results obtained by an engineering method



1/3rd Octave Band Frequency (Hz)

*Denotes Measurement outside the testers scope of certification & the scope of the SITMA Accreditation.	Above graph shows frequency range according to the curve of reference values within BS EN ISO 717-2
L _{nT,w} (CI) [dB]: 50 (-4) dB	PASS
Maximum Pass Level [dB]: 62 dB	Adverse Aggregated Deviations [dB]: 25.8

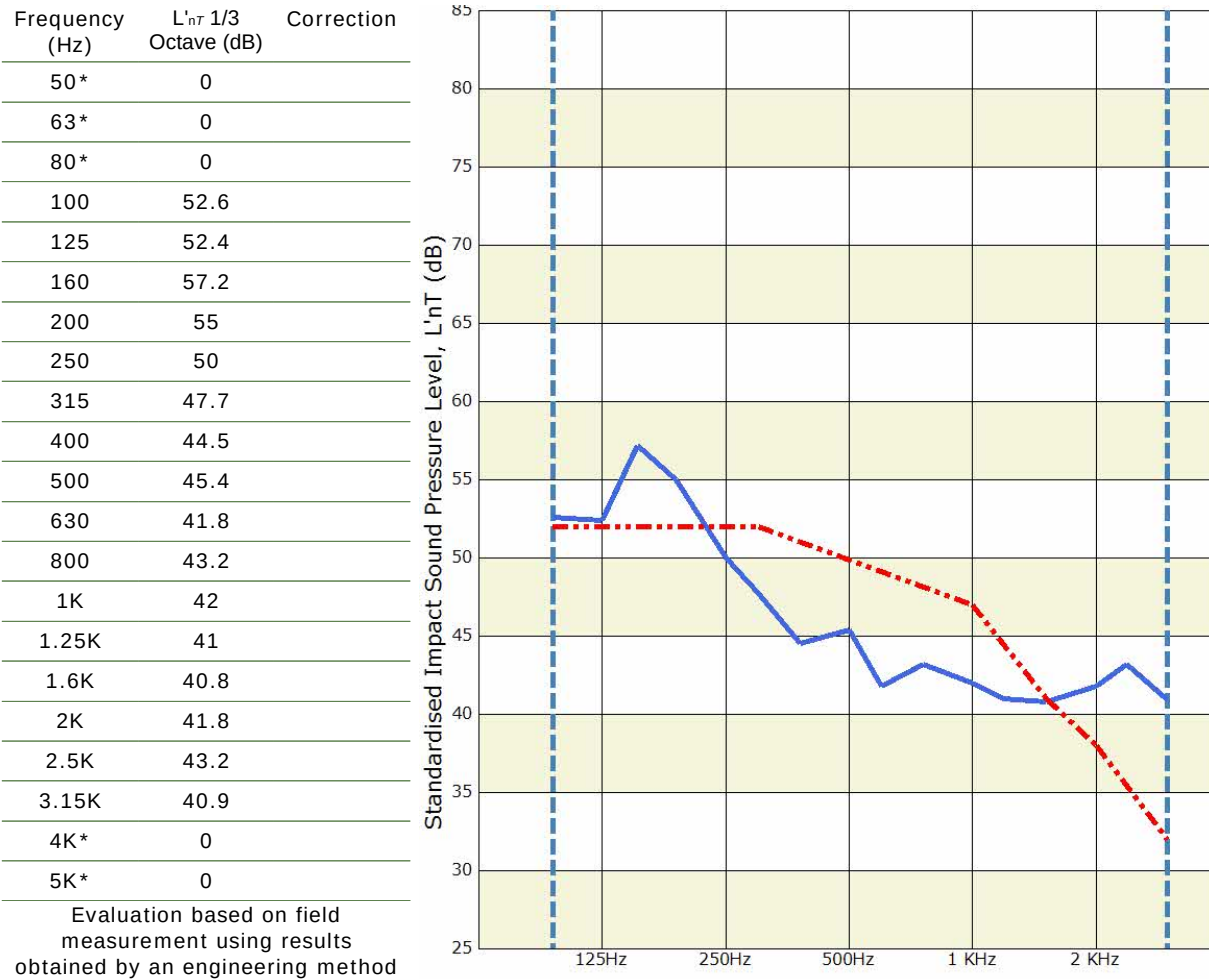
Partition Detail:Concrete floor

Test Exceptions (if any): None Declared by Tester

IMPACT SOUND INSULATION TEST: Approved Document E (2003) including 2004, 2010, 2013, and 2015 Amendments
BS EN ISO 140 - Part 7:1998: Acoustics - measurement of sound in buildings and of building elements
BS EN ISO 717 - Part 2:1997: Acoustics - rating of sound in buildings and of building elements

Registered Impact Test Certificate

Test No:	198067	Test Job Ref:	61768	Test Org Name:	Salveo Solutions
Customer:	Hamlet Homes			Test Type:	Impact (Floor)
Address:	1 The Mill , Stane Street, Chichester	Job Address:	Elm Grove, , Hayling Island	Test Date:	12/02/2025
				Tester:	Kevin Hale
				Site type:	New Build
Postcode:	PO18 0FF	Postcode:	PO11 9EH	Site Build:	Dwelling- House/Flat
Source Room:		Partition:	Receiver Room:		
Description:	Apartment 33 Bedroom 1	FC0001**	Apartment 19 Bedroom 1		
Volume / Area	33.6m³	13.5m²	32.5m³		



1/3rd Octave Band Frequency (Hz)

*Denotes Measurement outside the testers scope of certification & the scope of the SITMA Accreditation.	Above graph shows frequency range according to the curve of reference values within BS EN ISO 717-2
L'nT,w (CI) [dB]: 50 (-3) dB	PASS
Maximum Pass Level [dB]: 62 dB	Adverse Aggregated Deviations [dB]: 30.1

Partition Detail:Concrete floor

Test Exceptions (if any): None Declared by Tester

IMPACT SOUND INSULATION TEST: Approved Document E (2003) including 2004, 2010, 2013, and 2015 Amendments
BS EN ISO 140 - Part 7:1998: Acoustics - measurement of sound in buildings and of building elements
BS EN ISO 717 - Part 2:1997: Acoustics - rating of sound in buildings and of building elements

Registered Impact Test Certificate

Test No:	198068	Test Job Ref:	61768	Test Org Name:	Salveo Solutions
Customer:	Hamlet Homes			Test Type:	Impact (Floor)
Address:	1 The Mill , Stane Street, Chichester	Job Address:	Elm Grove, , Hayling Island	Test Date:	12/02/2025
				Tester:	Kevin Hale
Postcode:	PO18 0FF	Postcode:	PO11 9EH	Site type:	New Build
				Site Build:	Dwelling- House/Flat
Source Room:		Partition:	Receiver Room:		
Description:	Apartment 26 Kitchen / Living Room	FC0001**	Apartment 12 Kitchen / Living Room		
Volume / Area	71.0m³	29.4m²	70.6m³		

Frequency (Hz)	L _{nT} 1/3 Octave (dB)	Correction
50*	0	
63*	0	
80*	0	
100	56.5	
125	53.2	
160	52.9	
200	51.1	
250	48.7	
315	50	
400	49.3	
500	49.3	
630	47.6	
800	48.9	
1K	49.3	
1.25K	50.6	
1.6K	49.9	
2K	45.4	
2.5K	45	
3.15K	42.2	
4K*	0	
5K*	0	

Evaluation based on field measurement using results obtained by an engineering method



1/3rd Octave Band Frequency (Hz)

*Denotes Measurement outside the testers scope of certification & the scope of the SITMA Accreditation.	Above graph shows frequency range according to the curve of reference values within BS EN ISO 717-2
L _{nT,w} (CI) [dB]: 53 (-5) dB	PASS
Maximum Pass Level [dB]: 62 dB	Adverse Aggregated Deviations [dB]: 29.6

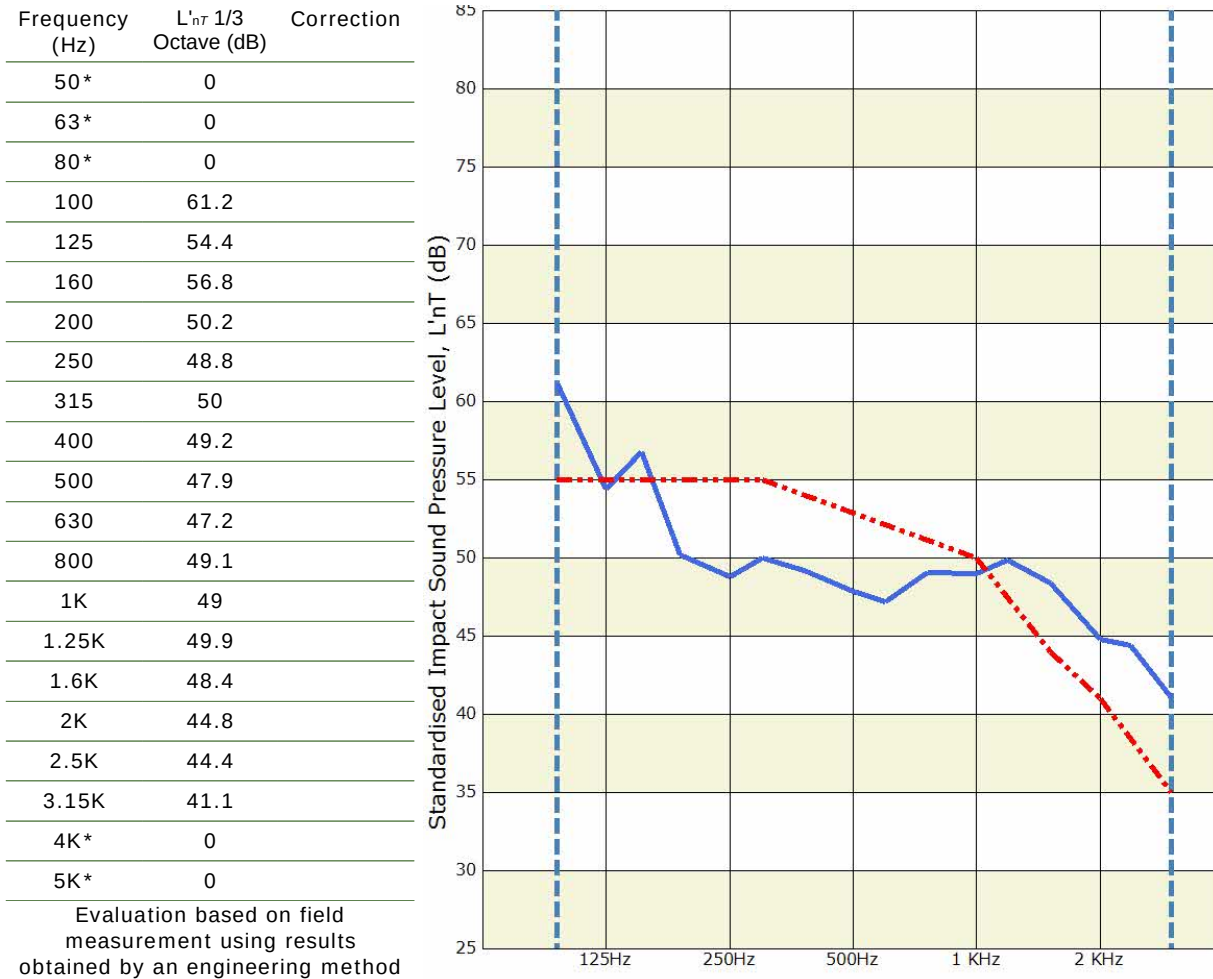
Partition Detail:Concrete floor

Test Exceptions (if any): None Declared by Tester

IMPACT SOUND INSULATION TEST: Approved Document E (2003) including 2004, 2010, 2013, and 2015 Amendments
BS EN ISO 140 - Part 7:1998: Acoustics - measurement of sound in buildings and of building elements
BS EN ISO 717 - Part 2:1997: Acoustics - rating of sound in buildings and of building elements

Registered Impact Test Certificate

Test No:	198069	Test Job Ref:	61768	Test Org Name:	Salveo Solutions
Customer:	Hamlet Homes			Test Type:	Impact (Floor)
Address:	1 The Mill , Stane Street, Chichester	Job Address:	Elm Grove, , Hayling Island	Test Date:	12/02/2025
				Tester:	Kevin Hale
Postcode:	PO18 0FF	Postcode:	PO11 9EH	Site type:	New Build
				Site Build:	Dwelling- House/Flat
Source Room:		Partition:	Receiver Room:		
Description:	Apartment 26 Bedroom 1	FC0001**	Apartment 12 Bedroom 1		
Volume / Area	26.2m³	10.9m²	26.7m³		



1/3rd Octave Band Frequency (Hz)

*Denotes Measurement outside the testers scope of certification & the scope of the SITMA Accreditation.	Above graph shows frequency range according to the curve of reference values within BS EN ISO 717-2
L'nT,w (CI) [dB]: 53 (-3) dB Maximum Pass Level [dB]: 62 dB	PASS Adverse Aggregated Deviations [dB]: 31.6

Partition Detail:Concrete floor

Test Exceptions (if any): None Declared by Tester

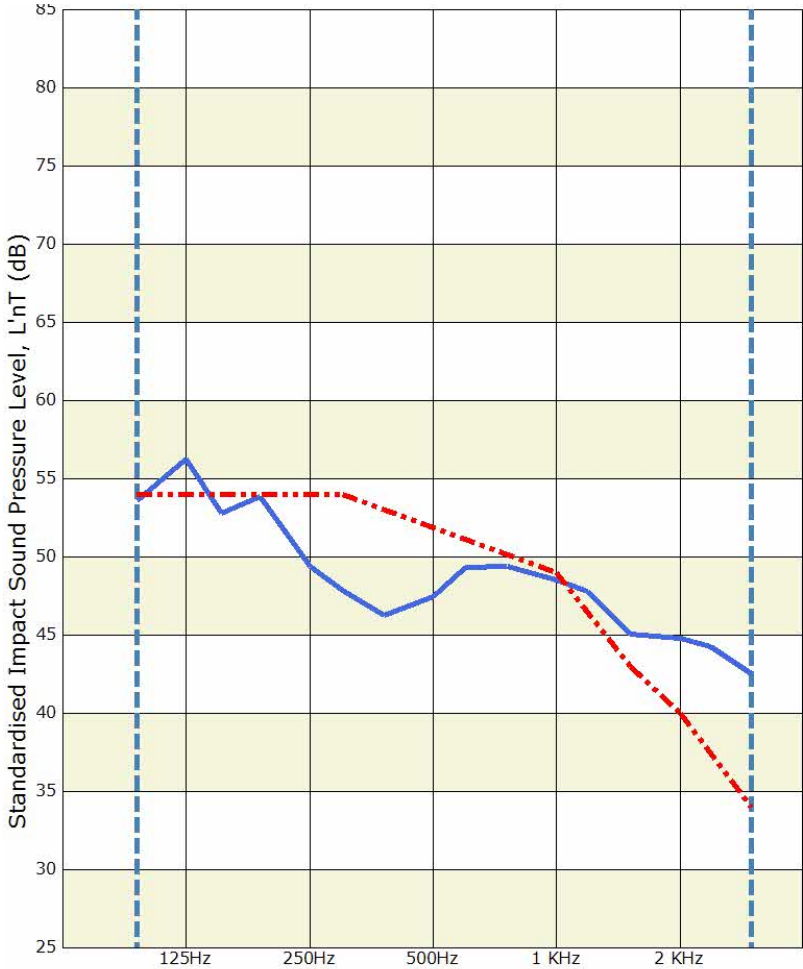
IMPACT SOUND INSULATION TEST: Approved Document E (2003) including 2004, 2010, 2013, and 2015 Amendments
BS EN ISO 140 - Part 7:1998: Acoustics - measurement of sound in buildings and of building elements
BS EN ISO 717 - Part 2:1997: Acoustics - rating of sound in buildings and of building elements

Registered Impact Test Certificate

Test No:	198070	Test Job Ref:	61768	Test Org Name:	Salveo Solutions
Customer:	Hamlet Homes			Test Type:	Impact (Floor)
Address:	1 The Mill , Stane Street, Chichester	Job Address:	Elm Grove, , Hayling Island	Test Date:	12/02/2025
				Tester:	Kevin Hale
Postcode:	PO18 0FF	Postcode:	PO11 9EH	Site type:	New Build
				Site Build:	Dwelling- House/Flat
Source Room:		Partition:	Receiver Room:		
Description:	Apartment 19 Kitchen / Living Room	FC0001**	Apartment 5 Kitchen / Living Room		
Volume / Area	58.8m³	24.2m²	62.2m³		

Frequency (Hz)	L _{nT} 1/3 Octave (dB)	Correction
50*	0	
63*	0	
80*	0	
100	53.6	
125	56.3	
160	52.8	
200	53.9	
250	49.4	
315	47.9	
400	46.3	
500	47.5	
630	49.3	
800	49.4	
1K	48.5	
1.25K	47.8	
1.6K	45.1	
2K	44.8	
2.5K	44.3	
3.15K	42.5	
4K*	0	
5K*	0	

Evaluation based on field measurement using results obtained by an engineering method



1/3rd Octave Band Frequency (Hz)

*Denotes Measurement outside the testers scope of certification & the scope of the SITMA Accreditation.	Above graph shows frequency range according to the curve of reference values within BS EN ISO 717-2
L _{nT,w} (CI) [dB]: 52 (-5) dB	PASS
Maximum Pass Level [dB]: 62 dB	Adverse Aggregated Deviations [dB]: 26.8

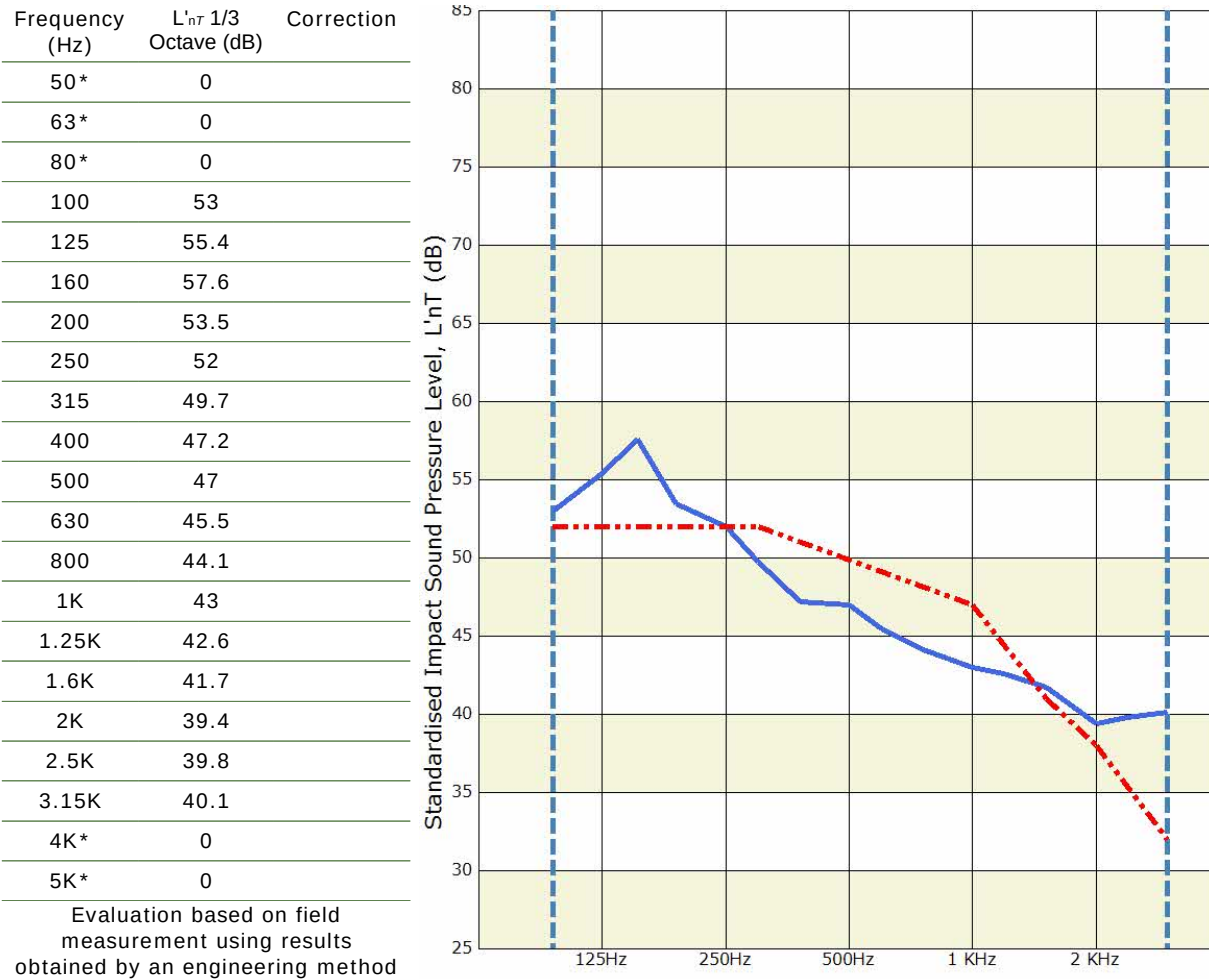
Partition Detail:Concrete floor

Test Exceptions (if any): None Declared by Tester

IMPACT SOUND INSULATION TEST: Approved Document E (2003) including 2004, 2010, 2013, and 2015 Amendments
BS EN ISO 140 - Part 7:1998: Acoustics - measurement of sound in buildings and of building elements
BS EN ISO 717 - Part 2:1997: Acoustics - rating of sound in buildings and of building elements

Registered Impact Test Certificate

Test No:	198071	Test Job Ref:	61768	Test Org Name:	Salveo Solutions
Customer:	Hamlet Homes			Test Type:	Impact (Floor)
Address:	1 The Mill , Stane Street, Chichester	Job Address:	Elm Grove, , Hayling Island	Test Date:	12/02/2025
				Tester:	Kevin Hale
				Site type:	New Build
Postcode:	PO18 0FF	Postcode:	PO11 9EH	Site Build:	Dwelling- House/Flat
Source Room:		Partition:	Receiver Room:		
Description:	Apartment 19 Bedroom 1	FC0001**	Apartment 5 Bedroom 1		
Volume / Area	32.5m³	13.5m²	33.1m³		



*Denotes Measurement outside the testers scope of certification & the scope of the SITMA Accreditation.		Above graph shows frequency range according to the curve of reference values within BS EN ISO 717-2	
L'nT,w (CI) [dB]: 50 (-2) dB		PASS	
Maximum Pass Level [dB]: 62 dB		Adverse Aggregated Deviations [dB]: 26.5	

Partition Detail:Concrete floor

Test Exceptions (if any): None Declared by Tester

IMPACT SOUND INSULATION TEST: Approved Document E (2003) including 2004, 2010, 2013, and 2015 Amendments
BS EN ISO 140 - Part 7:1998: Acoustics - measurement of sound in buildings and of building elements
BS EN ISO 717 - Part 2:1997: Acoustics - rating of sound in buildings and of building elements

Appendix B – UKAS Calibration Certificates



CERTIFICATE OF CALIBRATION



0653

Date of Issue: 08 January 2025

Calibrated at & Certificate issued by:
ANV Measurement Systems

Beaufort Court

17 Roebuck Way

Milton Keynes MK5 8HL

Telephone 01908 642846 Fax 01908 642814

E-Mail: info@noise-and-vibration.co.uk

Web: www.noise-and-vibration.co.uk

Acoustics Noise and Vibration Ltd trading as ANV Measurement Systems

Certificate Number: UCRT25/1041

Page	1	of	3	Pages
Approved Signatory				
K. Mistry				

CUSTOMER Salveo Solutions Ltd
179 Victoria Road
Ferndown
Dorset
BH22 9HY

ORDER No SSKMH **Job No** UKAS25/01015

DATE OF RECEIPT 07 January 2025

PROCEDURE Calibration Engineer's Handbook, section 25: periodic testing of sound level meters to IEC 61672-3:2006 (BS EN 61672-3:2006) as modified by UKAS TPS 49

IDENTIFICATION Sound level meter Brüel & Kjær type 2250 serial No 3027689 connected via a preamplifier type ZC 0032 serial No 28108 to a half-inch microphone type 4189 serial No 3181284.

CALIBRATED ON 08 January 2025

PREVIOUS CALIBRATION Calibrated on 16 January 2023, Certificate No. UCRT23/1062 issued by this laboratory.

This certificate is issued in accordance with the laboratory accreditation requirements of the United Kingdom Accreditation Service. It provides traceability of measurement to the SI system of units and/or to units of measurement realised at the National Physical Laboratory or other recognised national metrology institutes. This certificate may not be reproduced other than in full, except with the prior written approval of the issuing laboratory.



Certificate of Calibration

Certificate number: U47854

Test Object: Floor Tapping Machine

Producer: Norsonic AS.
Type: 277
Serial number: 2775540
Customer: Salveo Solutions
Address: 179 Victoria Road Ferndown
Dorset BH22 9HY
Contact Person: N/a
Order No: Kit525

Method :

This certificate is issued against the requirements of BS EN ISO 140-6/7:1998 Annex A, BS EN ISO 16283-2:2015 Annex A.1 & BS EN ISO 16283-2:2020 Annex A.1 (identical requirements) in respect of regular verification and also meet the requirements of UKAS publication LAB23 covering the verification of floor tapping machines used for building acoustics applications.

The machine was inspected for mechanical soundness and tested for electrical safety. It was cleaned and lubricated in accordance with the manufacturers instructions where necessary. The cams and hammer guides were inspected to ensure a free fall of the hammers. The mass of each of the hammers was determined either by measurement or reference to historical data (see Statements overleaf) along with their curvature and diameter of the impact face. The machine was set up as per the manufacturers specification using the calibration gauge provided (where applicable) and checked for level, then the direction of fall of the hammer set was checked against the requirements of the standard. The time between successive hammer impacts was measured over a 30 second period and the mean and range of successive values calculated.

Statements:

A successful calibration indicates that this Tapping Machine meets the requirements of BS EN ISO 140 parts 6, 7 & 8 annex A, BS EN ISO 16283-2:2015 Annex A.1 & BS EN ISO 16283-2:2020 Annex A.1 and is therefore suitable for the measurement of impact sound transmission following the procedures set out in their associated standards.

Expanded measurement uncertainties are:- Impact rate 0.25 ms, Hammer mass (mounted) 0.79 g, Hammer mass (demounted) 0.19 g, Hammer diameter 0.03 mm, Radius of curvature 11.0 mm, Hammer impact velocity 0.01 m/s and Hammer angle of fall 0.07 degree.

The mass of each individual hammer was measured in situ and the resulting data has been used in the calculation of the momentum of impact.

Environmental Conditions	Temperature	Relative Humidity
Reference Conditions:	23 °C	50 %RH
Measurement Conditions:	19.0 °C	49.0 %RH

Calibration Dates:

Received date:	15/05/2024	Reviewed date:	21/05/2024
Calibration date:	20/05/2024	Issued date:	21/05/2024

Technicians: (Electronic certificate)

Calibrated by: Martyna Silva
Reviewed by: Jenny Crawford

This certificate is issued in accordance with the laboratory accreditation requirements of the United Kingdom Accreditation Service. It provides traceability of measurement to the SI system of units and/or to units of measurement realised at a recognised national metrology institutes. This certificate may not be reproduced other than in full, except with the prior written approval of the issuing laboratory.

Laboratory Location:-

Campbell Associates Ltd

Sonitus House
5B Chelmsford Road Industrial Estate
Great Dunmow, Essex, CM6 1HD
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Phone: 01371 871030, Facsimile: 01371 879106



Certificate of Calibration Speaker Stability

Certificate Number: 47485

Test Object: Dodecahedron loudspeaker
Manufacturer: Norsonic
Type: 276
Serial No: 2766092

Customer: Campbell Associates Ltd
Address: Sonitus House, 5b Chelmsford Road Industrial Estate,
Great Dunmow, Essex
CM6 1HD

Contact Person: David Egan - Laboratory Manager

Order Number: Schedule

Method:

The level stability of the loudspeaker was measured according to the qualification procedure specified by SITMA document reference PUS007 - Equipment and Calibration Requirements - Issue 2.4 - 21.02.2024 and the associated reporting document FOS016. It also complies with the manufacturer's specification for the Dodecahedron Loudspeaker system. The loudspeaker was placed in a free field in the configuration required by the specification and driven by its associated power amplifier and pink noise source. Starting within 10 Seconds of the speaker being turned on, a series of 18 third octave measurements were then made with atleast 10 second intervals with no gaps more than 5 seconds between each reading over the frequency range 50Hz to 5k Hz.

The speaker was turned off for 120 seconds and repeated another series of 18 measurements as above.

From these results the stability was determined in terms of the maximum distribution and standard deviation in accordance with the SITMA specification. The maximum and the minimum values were calculated and shown in the table below and graphically relative to the requirements.

Traceability:

The measured values are traceable to an accredited national physical laboratory within the EU or EFTA. Details on request.

Calibration equipment used

Sound Level Meter	Nor-140	Serial No:	1406335	Microphone	Nor-1225	Serial No:	52251
Preamplifier	Nor-1201	Serial No:	30231	Power Amplifier	Nor-280	Serial No:	2803669
		Reference sound calibrator		WSC-5 Nor-1251.31824			

Calibration location

All measurements were made in the CA free field facility at the heading address

Environmental Conditions:	Pressure	Temperature	Relative Humidity
Reference Conditions:	101.325 kPa	23 °C	50 %RH
Measurement conditions:	100.529 ± 0.01kPa	21.7 ± 0.2°C	38.2 ± 2%RH

Date Received: 11 April 2024
Date of Calibration: 16 April 2024
Date of issue: 16 April 2024

Technicians: (Electronic certificate)

Engineer: Darren Batten TechIOA

Supervisor: Palanivel Marappan BEng(Hons) MSc