RS Acoustic Engineering

SITMA
The Sound Insulation Testing & Measurement Association



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
63 - 65 Upper Chorlton Road, Whalley Range, Manchester, M16 7RQ.

Competent Tester

Testing in this report was conducted by Ryan Swales (Registration Number: 7137), who is a Certified tester in the SITMA Certification Scheme for Sound Insulation Testers, which is a UKAS Accredited Certification Body No. 10579.

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: 66487

Test Date: 03/04/2025

Report Compilation Date: 03/04/2025

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.

Contents

The SITMA Certified Testers' Scheme..... 2

Certified Tester Conducting this test..... 2
SITMA UKAS Accreditation Scope..... 2
Audit Requirements..... 2
SITMA Portal..... 2
Calibration Requirements..... 2
Complaints..... 2

Report Revisions..... 3

Simplified Test Results..... 3

Testing Methodology..... 4

Level measurements in the Source & Receive Rooms (L1 & L2)..... 4
Background Measurements in Receive Room (L_β)..... 5
Reverberation Time Measurements (RT)..... 5
Level Measurements in the Receive Room..... 5
Background Measurements in Receive Room (L_β)..... 5
Reverberation Time Measurements (RT)..... 5

Calculation Methodology..... 6

Airborne Sound Insulation Tests..... 6
Background Noise Correction (Corrected L2)..... 6
Precision..... 6
Level Difference ('D')..... 6
Weighted Standardized Level Difference..... 6
Weighted Standardized Level Difference with Spectrum Adaption..... 6
'Precision..... 6

Standardized Impact Sound Pressure Level..... 7
Weighted Standardized Impact Sound Pressure Level..... 7
Sampling Regime..... 8

Deviations..... 8
Background Noise Levels..... 9

Deviations Related to the test..... 8

Calibration..... 9
Calibration Certificates..... 9

Tester Site Notes:..... 9
Background Noise Levels..... 9

Detailed Test Results..... 10
Detailed Test Results..... 10
Airborne Wall Tests – Material Change of Use by Ryan Swales..... 10
Airborne floor Tests – Material Change of Use by Ryan Swales..... 11
Impact floor Tests – Material Change of Use by Ryan Swales..... 12

Appendix A – Individual Certificates..... 13

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The SITMA Certified Testers' Scheme

This testing described within this report was conducted by a certified tester of the UKAS Accredited 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) Further information on the certification scheme, it's lodgement system, quality control and auditing requirements are discussed below.

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Certified Tester Conducting this test:

Certified Tester:	Ryan Swales
Associated Company:	RS Acoustic Engineering Ltd, 76 Marple Road, , Stockport, SK2 5QH.
Live Certification Status	https://www.bcta.group/sitma/members



SITMA Certification Scope
The SITMA Certification Scheme for Sound Insulation Testers is a UKAS Accredited Certification Body No. 10579. SITMA itself holds BS EN ISO/IEC 17024:2012 accreditation from UKAS, not the tester.

Testers are certified by SITMA in accordance with the SITMA Scope of Accreditation[2], 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 & Outcomes.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: 66487
	Job Postcode: M16 7RQ

[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

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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
206893	Flat 6 Kitchen / Living Room	Flat 2 Kitchen / Living Room	≥ 43	56	PASS
206894	Flat 6 Bedroom 1	Flat 2 Bedroom 1	≥ 43	55	PASS
206895	Flat 8 Kitchen / Living Room	Flat 4 Kitchen / Living Room	≥ 43	45	PASS
206896	Flat 8 Bedroom 1	Flat 4 Bedroom 1	≥ 43	48	PASS
206897	Flat 6 Kitchen / Living Room	Flat 2 Kitchen / Living Room	≤ 64	46	PASS
206898	Flat 6 Bedroom 1	Flat 2 Bedroom 1	≤ 64	49	PASS
206899	Flat 8 Kitchen / Living Room	Flat 4 Kitchen / Living Room	≤ 64	59	PASS
206900	Flat 8 Bedroom 1	Flat 4 Bedroom 1	≤ 64	60	PASS
206901	Flat 6 Kitchen / Living Room	Room 1st Floor Office	≥ 43	44	PASS
206902	Flat 5 Kitchen / Living Room	Room 1st Floor Office	≥ 43	47	PASS
206903	Flat 8 Kitchen / Living Room	Flat 7 Kitchen / Living Room	≥ 43	51	PASS

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

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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 354:2003[3] .

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

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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 354:2003[3].
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

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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 717-1:1997[4] and BS EN ISO 717-2:1997[5]

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

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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’ L2 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

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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 140-14:2004[6] 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

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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
Sound Level Meter & Microphone	BS EN 61672-1:2013	24 Aug 2023	24 Aug 2025	06357/2
Calibrator	IEC 60942:2017	09 Aug 2024	08 Aug 2025	06887/1
Speaker	SITMA PUS007-Directivity	29 Jun 2024	28 Jun 2025	FOS017
Tapper Machine	SITMA PUS007-Stability	25 May 2024	23 May 2026	
	BS EN ISO 140-7:1998 Annex One-Off Checks	26 Sep 2024	No Expiry	06937/1
	BS EN ISO 140-7:1998 Annex	03 Jul 2024	02 Jul 2026	FOS017

Tester Site Notes:

Detached property, traditional building envelope construction (double-leaf brickwork walls, pitched tiled roof, double glazed windows). Rooms finished but unfurnished.

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Detailed Test Results

Airborne Wall Tests – Material Change of Use by Ryan Swales

Certificate Number	Plot & Source Room	Source Room Volume	Plot & Receive Room	Receive Room Volume	Target $D_{nT,w}+C_{tr}$	Result $D_{nT,w}+C_{tr}$	Result
		(m^3)		(m^3)	(dB)	(dB)	
206901	**Flat 6 Kitchen / Living Room**	57.2m^3	**Room 1st Floor Office**	32.2m^3	≥ 43 dB	44 dB	**Pass**
	Construction: Generic Masonry Block: WB0001** : Generic Masonry Block Double leaf brickwork, independent lining, insulation between studs, two layers of dense plasterboard						
	Deviations:						
206902	**Flat 5 Kitchen / Living Room**	54.0m^3	**Room 1st Floor Office**	32.2m^3	≥ 43 dB	47 dB	**Pass**
	Construction: Generic Masonry Block: WB0001** : Generic Masonry BlockDouble leaf brickwork, independent lining, insulation between studs, two layers of dense plasterboard						
	Deviations:						
206903	**Flat 8 Kitchen / Living Room**	60.8m^3	**Flat 7 Kitchen / Living Room**	60.8m^3	≥ 43 dB	51 dB	**Pass**
	Construction: Generic Masonry Block: WB0001** : Generic Masonry Block Solid blockwork core, plasterboard on dabs each side						
	Deviations:						

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Airborne floor Tests – Material Change of Use by Ryan Swales

Certificate Number	Plot & Source Room	Source Room Volume	Plot & Receive Room	Receive Room Volume	Target $D_{nT,w}+C_{tr}$	Result $D_{nT,w}+C_{tr}$	Result
		(m^3)		(m^3)	(dB)	(dB)	
206893	**Flat 6 Kitchen / Living Room**	57.2m^3	**Flat 2 Kitchen / Living Room**	57.2m^3	≥ 43 dB	56 dB	**Pass**
	Construction: Generic Timber Joist: FT0001** : Generic Timber Joist Regupol resilient layer, timber floorboards, timber joists, plasterboard, acoustic hangers, suspended metal frame, 2 layers of dense plasterboard, mineral wool in cavity						
	Deviations:						
206894	**Flat 6 Bedroom 1**	31.1m^3	**Flat 2 Bedroom 1**	31.1m^3	≥ 43 dB	55 dB	**Pass**
	Construction: Generic Timber Joist: Regupol resilient layer, timber floorboards, timber joists, plasterboard, acoustic hangers, suspended metal frame, 2 layers of dense plasterboard, mineral wool in cavity						
	Deviations:						
206895	**Flat 8 Kitchen / Living Room**	60.8m^3	**Flat 4 Kitchen / Living Room**	60.8m^3	≥ 43 dB	45 dB	**Pass**
	Construction: Generic Timber Joist: Regupol resilient layer, timber floorboards, timber joists, plasterboard, acoustic hangers, suspended metal frame, 2 layers of dense plasterboard, mineral wool in cavity						
	Deviations:						
206896	**Flat 8 Bedroom 1**	25.4m^3	**Flat 4 Bedroom 1**	25.4m^3	≥ 43 dB	48 dB	**Pass**
	Construction: Generic Timber Joist: Regupol resilient layer, timber floorboards, timber joists, plasterboard, acoustic hangers, suspended metal frame, 2 layers of dense plasterboard, mineral wool in cavity						
	Deviations:						

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Impact floor Tests – Material Change of Use by Ryan Swales

Certificate Number	Plot & Source Room	Source Room Volume	Plot & Receive Room	Receive Room Volume	Target L'_{nT_w}	Result L'_{nT_w}	Result
		(m^3)		(m^3)	(dB)	(dB)	
206897	**Flat 6 Kitchen / Living Room**	57.2m^3	**Flat 2 Kitchen / Living Room**	57.2m^3	≤ 64 dB	46 dB	**Pass**
	Construction: Generic Timber Joist: FT0001** : Generic Timber Joist Regupol resilient layer, timber floorboards, timber joists, plasterboard, acoustic hangers, suspended metal frame, 2 layers of dense plasterboard, mineral wool in cavity						
	Deviations:						
206898	**Flat 6 Bedroom 1**	31.1m^3	**Flat 2 Bedroom 1**	31.1m^3	≤ 64 dB	49 dB	**Pass**
	Construction: Generic Timber Joist: FT0001** : Generic Timber Joist Regupol resilient layer, timber floorboards, timber joists, plasterboard, acoustic hangers, suspended metal frame, 2 layers of dense plasterboard, mineral wool in cavity						
	Deviations:						
206899	**Flat 8 Kitchen / Living Room**	60.8m^3	**Flat 4 Kitchen / Living Room**	60.8m^3	≤ 64 dB	59 dB	**Pass**
	Construction: Generic Timber Joist: FT0001** : Generic Timber Joist Regupol resilient layer, timber floorboards, timber joists, plasterboard, acoustic hangers, suspended metal frame, 2 layers of dense plasterboard, mineral wool in cavity						
	Deviations:						
206900	**Flat 8 Bedroom 1**	25.4m^3	**Flat 4 Bedroom 1**	25.4m^3	≤ 64 dB	60 dB	**Pass**
	Construction: Generic Timber Joist: Regupol resilient layer, timber floorboards, timber joists, plasterboard, acoustic hangers, suspended metal frame, 2 layers of dense plasterboard, mineral wool in cavity						
	Deviations:						

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Appendix A – Individual Certificates

Test Type	Source Room	Partition	Receiver Room
Airborne sound insulation	Flat 6 Kitchen / Living Room	WB0001**	Room 1st Floor Office
Airborne sound insulation	Flat 5 Kitchen / Living Room	WB0001**	Room 1st Floor Office
Airborne sound insulation	Flat 8 Kitchen / Living Room	WB0001**	Flat 7 Kitchen / Living Room
Airborne sound insulation	Flat 6 Kitchen / Living Room	FT0001**	Flat 2 Kitchen / Living Room
Airborne sound insulation	Flat 6 Bedroom 1	FT0001**	Flat 2 Bedroom 1
Airborne sound insulation	Flat 8 Kitchen / Living Room	FT0001**	Flat 4 Kitchen / Living Room
Airborne sound insulation	Flat 8 Bedroom 1	FT0001**	Flat 4 Bedroom 1
Impact sound insulation	Flat 6 Kitchen / Living Room	FT0001**	Flat 2 Kitchen / Living Room
Impact sound insulation	Flat 6 Bedroom 1	FT0001**	Flat 2 Bedroom 1
Impact sound insulation	Flat 8 Kitchen / Living Room	FT0001**	Flat 4 Kitchen / Living Room
Impact sound insulation	Flat 8 Bedroom 1	FT0001**	Flat 4 Bedroom 1

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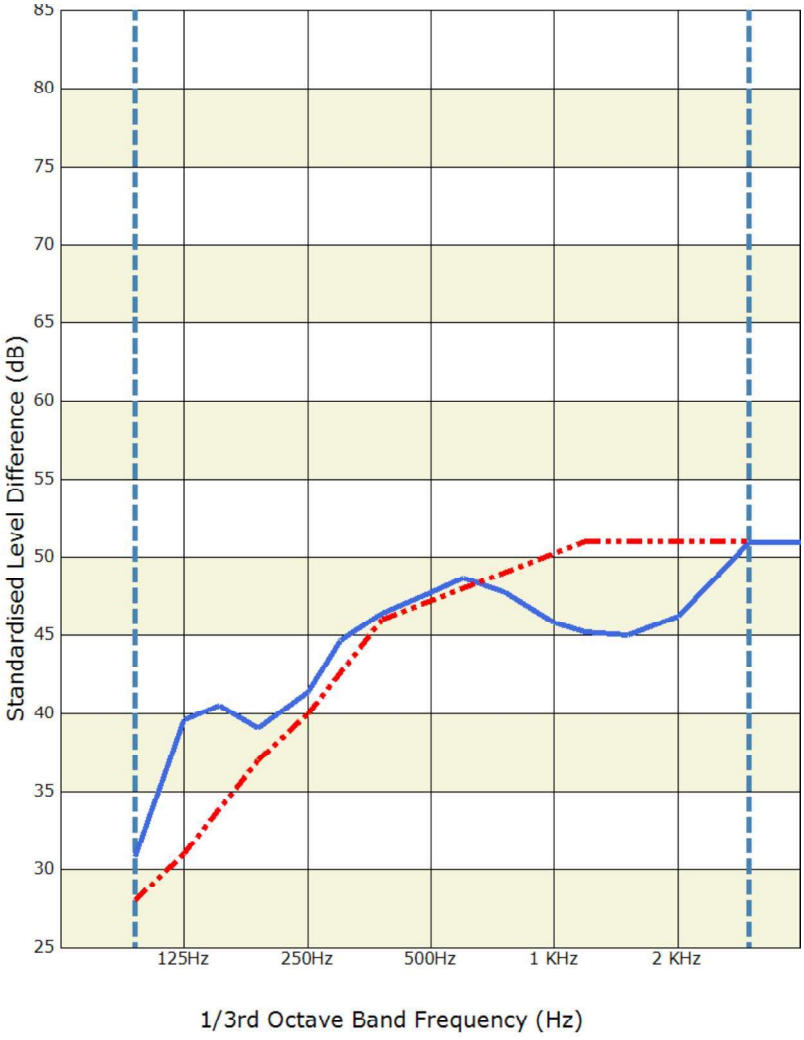
Registered Sound Insulation Test Certificate

Test No:	206901	**Test Job Ref:**	66487	**Test Org Name:**	RS Acoustic Engineering Ltd
Customer:	J Greenwood (Builders) Ltd			**Test Type:**	Airborne (Wall)
Address:	Unit B9, Greengate Industrial Estate, Greenside Way, Chadderton	**Job Address:**	63 - 65 Upper Chorlton Road, Whalley Range, Manchester	**Test Date:**	03/04/2025
				Tester:	Ryan Swales
				Site type:	Material Change of Use
Postcode:	M24 1SW	**Postcode:**	M16 7RQ	**Site Build:**	Dwelling-House/Flat

	Source Room:	**Partition:**	**Receiver Room:**
Description:	Flat 6 Kitchen / Living Room	WB0001**	Room 1st Floor Office
Volume / Area	57.2m³	8.0m²	32.2m³

Frequency (Hz)	D_{nT}	Correction
50*	27.2	
63*	31.7	
80*	19.9	
100	30.8	
125	39.6	
160	40.5	
200	39.1	
250	41.4	
315	44.7	
400	46.4	
500	47.7	
630	48.7	
800	47.7	
1K	45.8	
1.25K	45.2	
1.6K	45	
2K	46.2	
2.5K	48.2	
3.15K	50.9	
4K*	50.9	
5K*	57.6	

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



*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]: 47 (-1, -3) dB
$D_{nT,w}$+ C_{tr} [dB]: 44 dB
Minimum Pass Level [dB]: 43 dB

PASS
Adverse Aggregated Deviations [dB]: 25.0

Partition Detail: WB0001** : Generic Masonry Block
Double leaf brickwork, independent lining, insulation between studs, two layers of dense plasterboard

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

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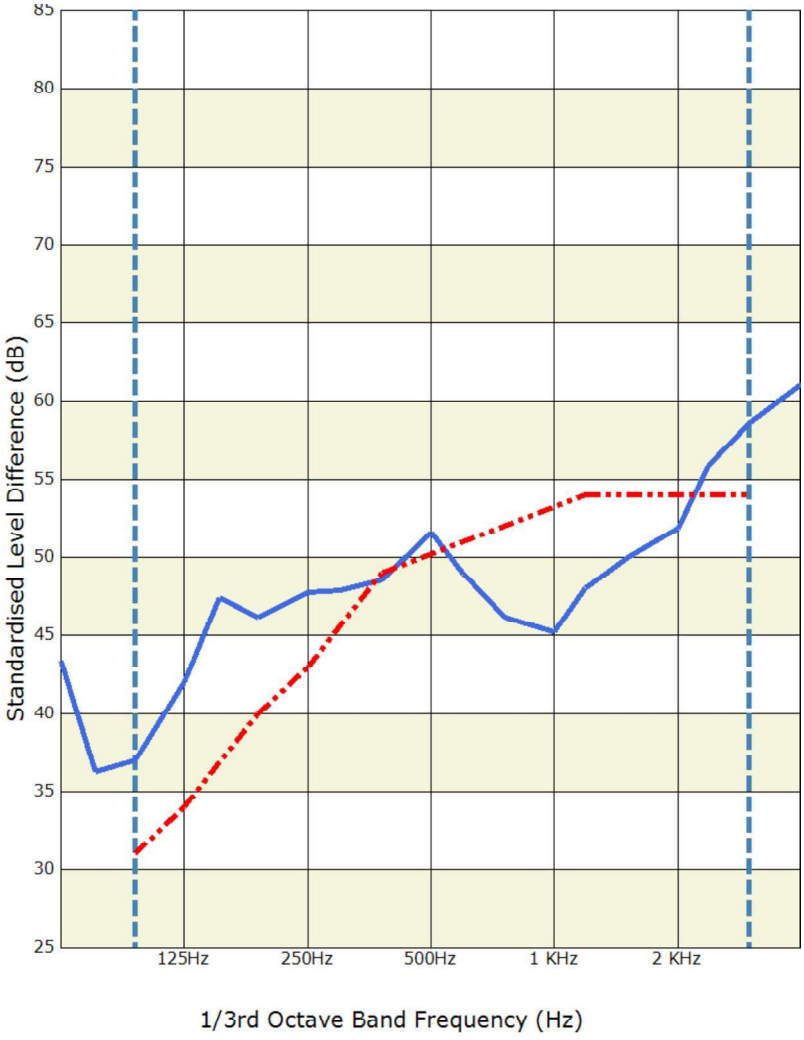
Registered Sound Insulation Test Certificate

Test No:	206902	**Test Job Ref:**	66487	**Test Org Name:**	RS Acoustic Engineering Ltd
Customer:	J Greenwood (Builders) Ltd			**Test Type:**	Airborne (Wall)
Address:	Unit B9, Greengate Industrial Estate, Greenside Way, Chadderton	**Job Address:**	63 - 65 Upper Chorlton Road, Whalley Range, Manchester	**Test Date:**	03/04/2025
				Tester:	Ryan Swales
				Site type:	Material Change of Use
Postcode:	M24 1SW	**Postcode:**	M16 7RQ	**Site Build:**	Dwelling-House/Flat

	Source Room:	**Partition:**	**Receiver Room:**
Description:	Flat 5 Kitchen / Living Room	WB0001**	Room 1st Floor Office
Volume / Area	54.0m³	8.0m²	32.2m³

Frequency (Hz)	D_{nT}	Correction
50*	41.7	
63*	43.4	
80*	36.3	
100	37	
125	42	
160	47.4	
200	46.1	
250	47.7	
315	47.9	
400	48.5	
500	51.6	
630	48.9	
800	46.1	
1K	45.2	
1.25K	48	
1.6K	50	
2K	51.9	
2.5K	55.9	
3.15K	58.6	
4K*	61.1	
5K*	63.9	

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



*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]: 50 (-1, -3) dB
$D_{nT,w}$+ C_{tr} [dB]: 47 dB
Minimum Pass Level [dB]: 43 dB

PASS
Adverse Aggregated Deviations [dB]: 28.4

Partition Detail: WB0001** : Generic Masonry BlockDouble leaf brickwork, independent lining, insulation between studs, two layers of dense plasterboard

Test Exceptions (if any): None Declared by Tester

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

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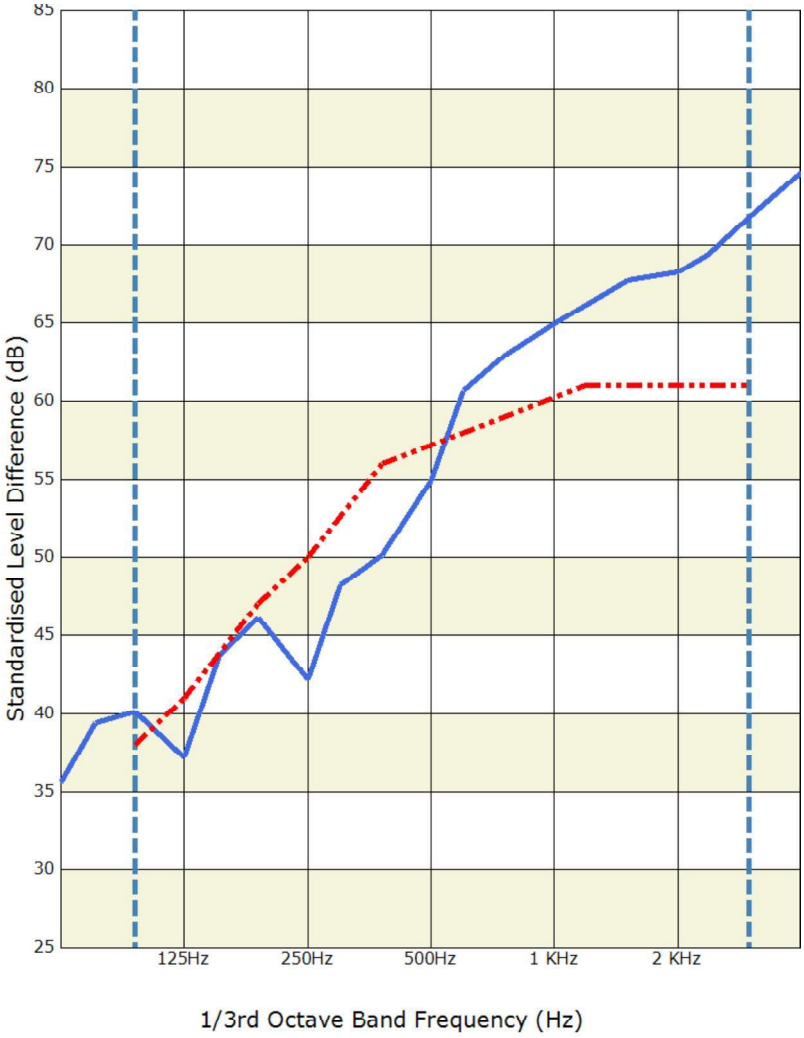
Registered Sound Insulation Test Certificate

Test No:	206903	**Test Job Ref:**	66487	**Test Org Name:**	RS Acoustic Engineering Ltd
Customer:	J Greenwood (Builders) Ltd			**Test Type:**	Airborne (Wall)
Address:	Unit B9, Greengate Industrial Estate, Greenside Way, Chadderton	**Job Address:**	63 - 65 Upper Chorlton Road, Whalley Range, Manchester	**Test Date:** **Tester:** **Site type:**	03/04/2025 Ryan Swales Material Change of Use
Postcode:	M24 1SW	**Postcode:**	M16 7RQ	**Site Build:**	Dwelling-House/Flat

	Source Room:	**Partition:**	**Receiver Room:**
Description:	Flat 8 Kitchen / Living Room	WB0001**	Flat 7 Kitchen / Living Room
Volume / Area	60.8m³	20.4m²	60.8m³

Frequency (Hz)	D_{nT}	Correction
50*	38.5	
63*	35.6	
80*	39.4	
100	40.1	
125	37.2	
160	43.7	
200	46.1	
250	42.2	
315	48.2	
400	50.1	
500	54.9	
630	60.7	
800	62.9	
1K	64.9	
1.25K	66.1	
1.6K	67.7	
2K	68.3	
2.5K	69.4	
3.15K	71.8	
4K*	74.7	X
5K*	75.7	X

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



*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 (-1, -6) dB
$D_{nT,w}$+ C_{tr} [dB]: 51 dB
Minimum Pass Level [dB]: 43 dB

PASS
Adverse Aggregated Deviations [dB]: 25.6

Partition Detail: WB0001** : Generic Masonry Block
Solid blockwork core, plasterboard on dabs each side

Test Exceptions (if any): None Declared by Tester

AIRBORNE SOUND INSULATION TEST: Approved Document E (2003) including 2004, 2010, 2013, and 2015 Amendments
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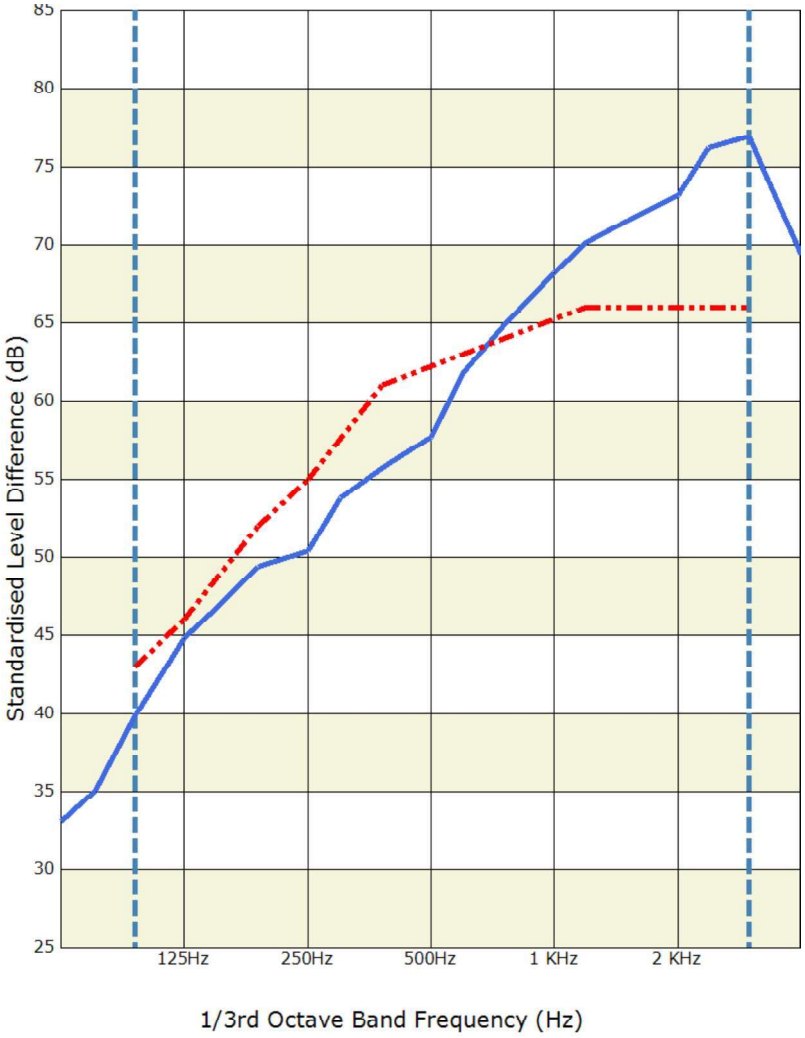
Registered Sound Insulation Test Certificate

Test No:	206893	**Test Job Ref:**	66487	**Test Org Name:**	RS Acoustic Engineering Ltd
Customer:	J Greenwood (Builders) Ltd			**Test Type:**	Airborne (Floor)
Address:	Unit B9, Greengate Industrial Estate, Greenside Way, Chadderton	**Job Address:**	63 - 65 Upper Chorlton Road, Whalley Range, Manchester	**Test Date:**	03/04/2025
				Tester:	Ryan Swales
				Site type:	Material Change of Use
Postcode:	M24 1SW	**Postcode:**	M16 7RQ	**Site Build:**	Dwelling-House/Flat

	Source Room:	**Partition:**	**Receiver Room:**
Description:	Flat 6 Kitchen / Living Room	FT0001**	Flat 2 Kitchen / Living Room
Volume / Area	57.2m³	20.6m²	57.2m³

Frequency (Hz)	D_{nT}	Correction
50*	37.9	
63*	33.1	
80*	35.1	
100	39.9	
125	44.8	
160	46.9	
200	49.4	
250	50.4	
315	53.8	
400	55.7	
500	57.7	
630	61.8	
800	64.9	
1K	68.2	X
1.25K	70.1	X
1.6K	71.6	
2K	73.2	
2.5K	76.2	
3.15K	76.9	
4K*	69.4	
5K*	67.5	

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



*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]: 62 (-1, -6) dB
$D_{nT,w}$+ C_{tr} [dB]: 56 dB
Minimum Pass Level [dB]: 43 dB

PASS
Adverse Aggregated Deviations [dB]: 28.6

Partition Detail: FT0001** : Generic Timber Joist
Regupol resilient layer, timber floorboards, timber joists, plasterboard, acoustic hangers, suspended metal frame, 2 layers of dense plasterboard, mineral wool in cavity

Test Exceptions (if any): None Declared by Tester

AIRBORNE SOUND INSULATION TEST: Approved Document E (2003) including 2004, 2010, 2013, and 2015 Amendments
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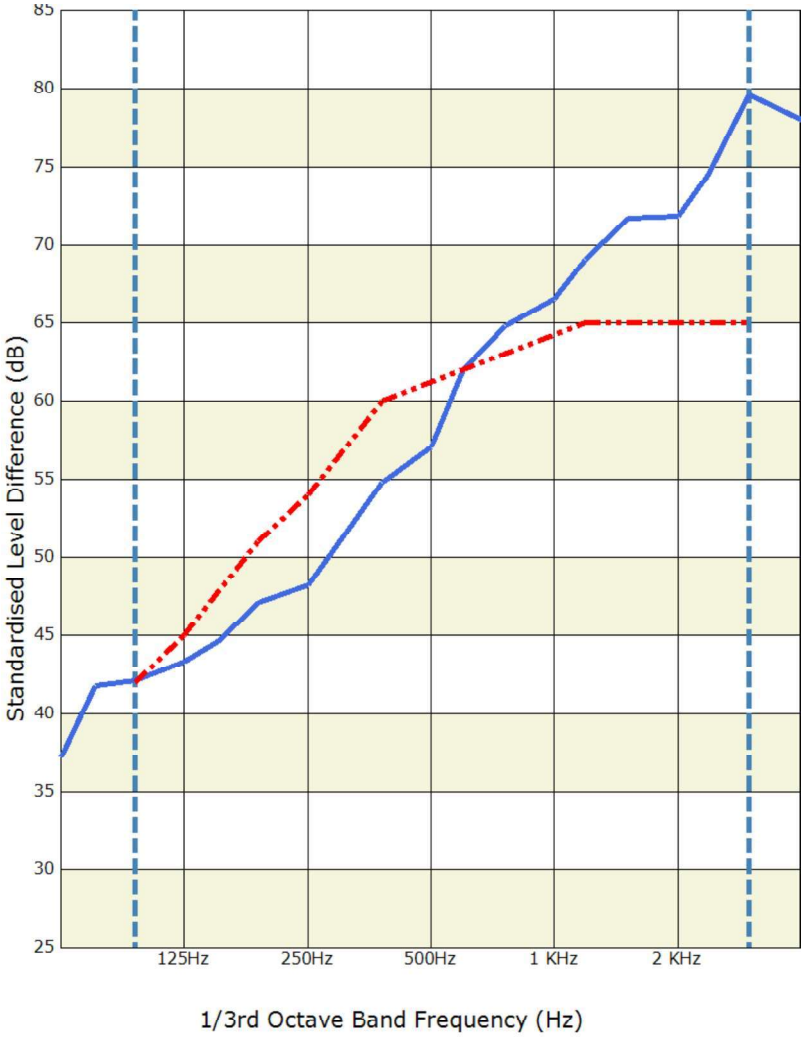
Registered Sound Insulation Test Certificate

Test No:	206894	**Test Job Ref:**	66487	**Test Org Name:**	RS Acoustic Engineering Ltd
Customer:	J Greenwood (Builders) Ltd			**Test Type:**	Airborne (Floor)
Address:	Unit B9, Greengate Industrial Estate, Greenside Way, Chadderton	**Job Address:**	63 - 65 Upper Chorlton Road, Whalley Range, Manchester	**Test Date:**	03/04/2025
				Tester:	Ryan Swales
				Site type:	Material Change of Use
Postcode:	M24 1SW	**Postcode:**	M16 7RQ	**Site Build:**	Dwelling-House/Flat

	Source Room:	**Partition:**	**Receiver Room:**
Description:	Flat 6 Bedroom 1	FT0001**	Flat 2 Bedroom 1
Volume / Area	31.1m³	11.5m²	31.1m³

Frequency (Hz)	D_{nT}	Correction
50*	26.6	
63*	37.2	
80*	41.8	
100	42.1	
125	43.3	
160	44.7	
200	47.1	
250	48.2	
315	51.1	
400	54.8	
500	57.1	
630	62	
800	64.8	
1K	66.5	
1.25K	69.1	
1.6K	71.7	
2K	71.9	
2.5K	74.5	
3.15K	79.6	
4K*	78	X
5K*	75.5	X

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



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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]: 61 (-2, -6) dB
$D_{nT,w}$+ C_{tr} [dB]: 55 dB
Minimum Pass Level [dB]: 43 dB

PASS
Adverse Aggregated Deviations [dB]: 29.7

Partition Detail: Regupol resilient layer, timber floorboards, timber joists, plasterboard, acoustic hangers, suspended metal frame, 2 layers of dense plasterboard, mineral wool in cavity

Test Exceptions (if any): None Declared by Tester

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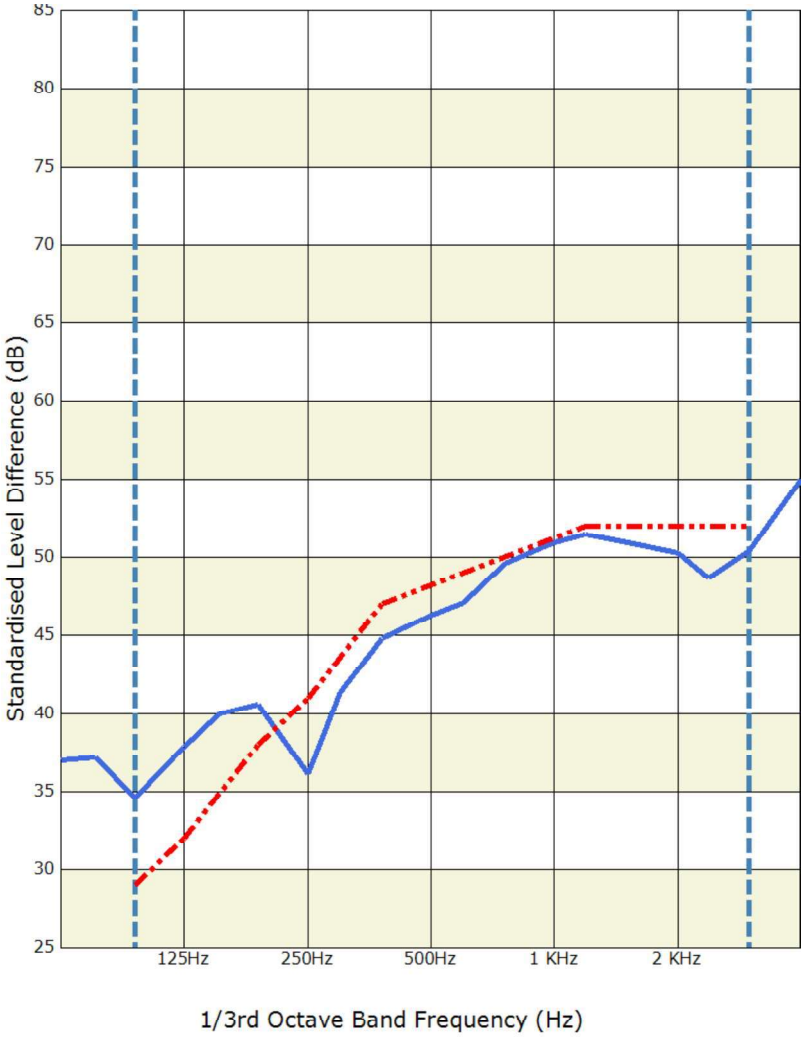
Registered Sound Insulation Test Certificate

Test No:	206895	**Test Job Ref:**	66487	**Test Org Name:**	RS Acoustic Engineering Ltd
Customer:	J Greenwood (Builders) Ltd			**Test Type:**	Airborne (Floor)
Address:	Unit B9, Greengate Industrial Estate, Greenside Way, Chadderton	**Job Address:**	63 - 65 Upper Chorlton Road, Whalley Range, Manchester	**Test Date:**	03/04/2025
				Tester:	Ryan Swales
				Site type:	Material Change of Use
Postcode:	M24 1SW	**Postcode:**	M16 7RQ	**Site Build:**	Dwelling-House/Flat

	Source Room:	**Partition:**	**Receiver Room:**
Description:	Flat 8 Kitchen / Living Room	FT0001**	Flat 4 Kitchen / Living Room
Volume / Area	60.8m³	23.6m²	60.8m³

Frequency (Hz)	D_{nT}	Correction
50*	29.8	
63*	37	
80*	37.2	
100	34.6	
125	37.9	
160	40	
200	40.6	
250	36.1	
315	41.4	
400	44.8	
500	46.3	
630	47.1	
800	49.6	
1K	50.9	
1.25K	51.5	
1.6K	50.9	
2K	50.3	
2.5K	48.7	
3.15K	50.4	
4K*	55	
5K*	60.4	

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



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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]: 48 (0, -3) dB
$D_{nT,w}$+ C_{tr} [dB]: 45 dB
Minimum Pass Level [dB]: 43 dB

PASS
Adverse Aggregated Deviations [dB]: 22.0

Partition Detail: Regupol resilient layer, timber floorboards, timber joists, plasterboard, acoustic hangers, suspended metal frame, 2 layers of dense plasterboard, mineral wool in cavity

Test Exceptions (if any): None Declared by Tester

AIRBORNE SOUND INSULATION TEST: Approved Document E (2003) including 2004, 2010, 2013, and 2015 Amendments
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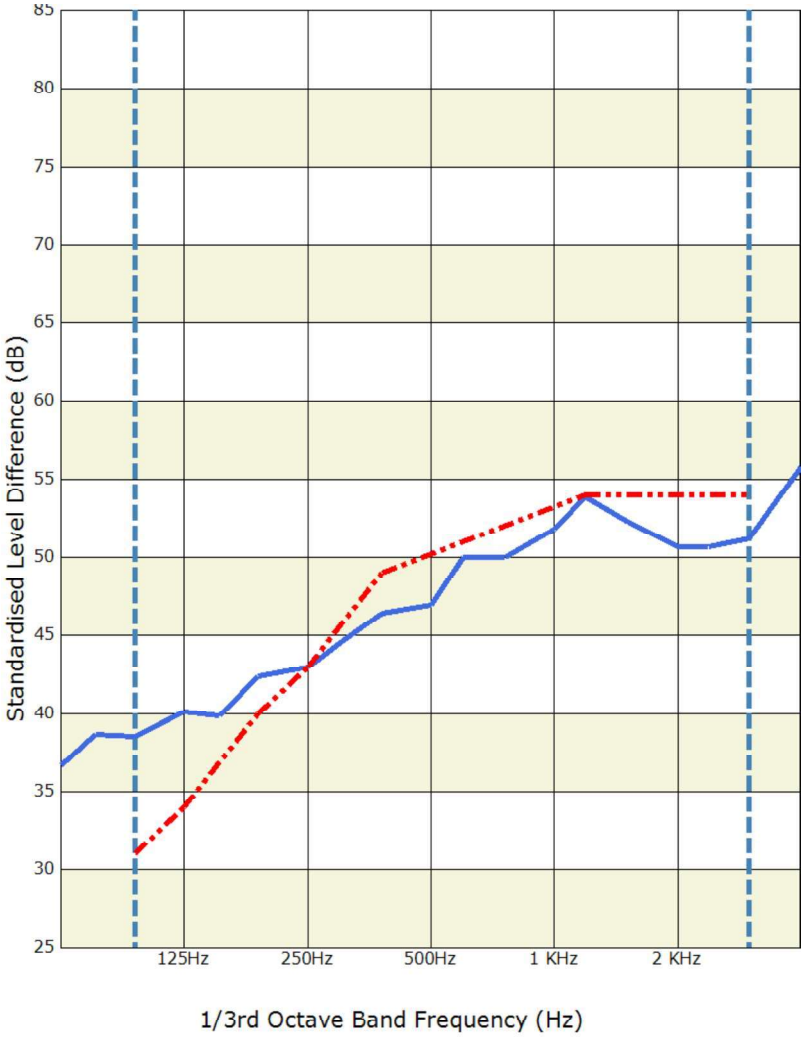
Registered Sound Insulation Test Certificate

Test No:	206896	**Test Job Ref:**	66487	**Test Org Name:**	RS Acoustic Engineering Ltd
Customer:	J Greenwood (Builders) Ltd			**Test Type:**	Airborne (Floor)
Address:	Unit B9, Greengate Industrial Estate, Greenside Way, Chadderton	**Job Address:**	63 - 65 Upper Chorlton Road, Whalley Range, Manchester	**Test Date:**	03/04/2025
				Tester:	Ryan Swales
				Site type:	Material Change of Use
Postcode:	M24 1SW	**Postcode:**	M16 7RQ	**Site Build:**	Dwelling-House/Flat

	Source Room:	**Partition:**	**Receiver Room:**
Description:	Flat 8 Bedroom 1	FT0001**	Flat 4 Bedroom 1
Volume / Area	25.4m³	10.4m²	25.4m³

Frequency (Hz)	D_{nT}	Correction
50*	25.9	
63*	36.7	
80*	38.7	
100	38.5	
125	40.1	
160	39.9	
200	42.4	
250	43	
315	44.5	
400	46.4	
500	46.9	
630	50	
800	50	
1K	51.8	
1.25K	53.9	
1.6K	52.3	
2K	50.7	
2.5K	50.7	
3.15K	51.2	
4K*	55.8	
5K*	61.8	

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



*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]: 50 (0, -2) dB
$D_{nT,w}$+ C_{tr} [dB]: 48 dB
Minimum Pass Level [dB]: 43 dB

PASS
Adverse Aggregated Deviations [dB]: 22.6

Partition Detail: Regupol resilient layer, timber floorboards, timber joists, plasterboard, acoustic hangers, suspended metal frame, 2 layers of dense plasterboard, mineral wool in cavity

Test Exceptions (if any): None Declared by Tester

AIRBORNE SOUND INSULATION TEST: Approved Document E (2003) including 2004, 2010, 2013, and 2015 Amendments
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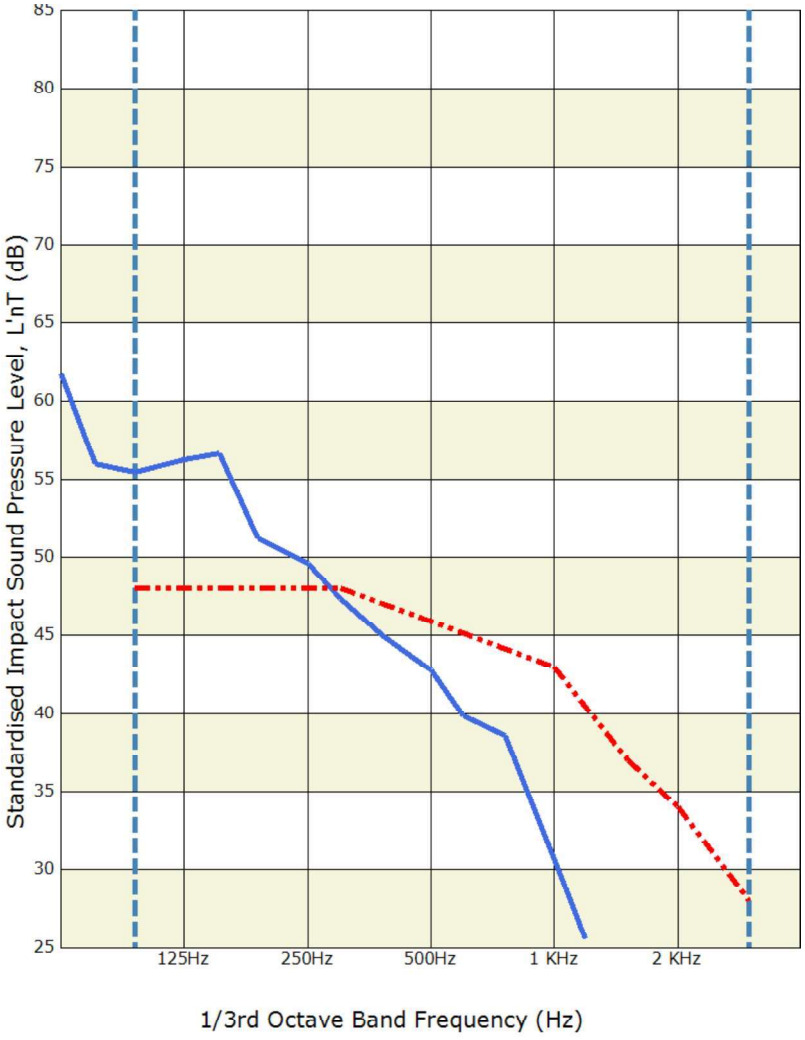
Registered Impact Test Certificate

Test No:	206897	**Test Job Ref:**	66487	**Test Org Name:**	RS Acoustic Engineering Ltd
Customer:	J Greenwood (Builders) Ltd			**Test Type:**	Impact (Floor)
Address:	Unit B9, Greengate Industrial Estate, Greenside Way, Chadderton	**Job Address:**	63 - 65 Upper Chorlton Road, Whalley Range, Manchester	**Test Date:**	03/04/2025
				Tester:	Ryan Swales
				Site type:	Material Change of Use
Postcode:	M24 1SW	**Postcode:**	M16 7RQ	**Site Build:**	Dwelling-House/Flat

	Source Room:	**Partition:**	**Receiver Room:**
Description:	Flat 6 Kitchen / Living Room	FT0001**	Flat 2 Kitchen / Living Room
Volume / Area	57.2m³	20.6m²	57.2m³

Frequency (Hz)	L'_{nT} 1/3 Octave (dB)	Correction
50*	58.1	
63*	61.7	
80*	56	
100	55.5	
125	56.3	
160	56.7	
200	51.2	
250	49.6	
315	47.3	
400	45	
500	42.8	
630	39.9	
800	38.6	
1K	30.7	
1.25K	25.6	
1.6K	24.5	
2K	23.4	
2.5K	21	X
3.15K	18.4	X
4K*	18.5	X
5K*	19.7	X

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



*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]: 46 (1) dB
Maximum Pass Level [dB]: 64 dB

PASS
Adverse Aggregated Deviations [dB]: 29.3

Partition Detail: FT0001** : Generic Timber Joist
Regupol resilient layer, timber floorboards, timber joists, plasterboard, acoustic hangers, suspended metal frame, 2 layers of dense plasterboard, mineral wool in cavity

Test Exceptions (if any): None Declared by Tester

IMPACT SOUND INSULATION TEST: Approved Document E (2003) including 2004, 2010, 2013, and 2015 Amendments
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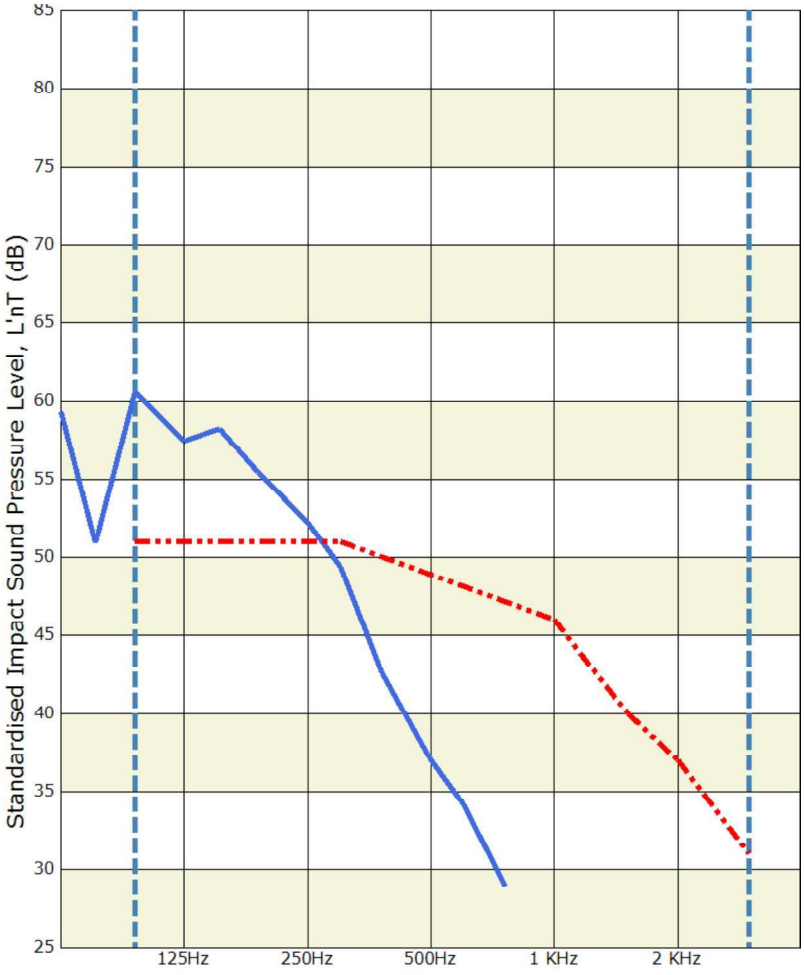
Registered Impact Test Certificate

Test No:	206898	**Test Job Ref:**	66487	**Test Org Name:**	RS Acoustic Engineering Ltd
Customer:	J Greenwood (Builders) Ltd			**Test Type:**	Impact (Floor)
Address:	Unit B9, Greengate Industrial Estate, Greenside Way, Chadderton	**Job Address:**	63 - 65 Upper Chorlton Road, Whalley Range, Manchester	**Test Date:**	03/04/2025
				Tester:	Ryan Swales
				Site type:	Material Change of Use
Postcode:	M24 1SW	**Postcode:**	M16 7RQ	**Site Build:**	Dwelling-House/Flat

	Source Room:	**Partition:**	**Receiver Room:**
Description:	Flat 6 Bedroom 1	FT0001**	Flat 2 Bedroom 1
Volume / Area	31.1m³	11.5m²	31.1m³

Frequency (Hz)	L'_{nT} 1/3 Octave (dB)	Correction
50*	71.8	
63*	59.3	
80*	50.9	
100	60.6	
125	57.5	
160	58.3	
200	55.5	
250	52.2	
315	49.4	
400	42.6	
500	37	
630	34.2	
800	28.9	
1K	24	
1.25K	18.9	X
1.6K	17.3	X
2K	16.9	X
2.5K	13.3	X
3.15K	10.3	X
4K*	9.4	X
5K*	11.3	X

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



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Above graph shows frequency range according to the curve of reference values within BS EN ISO 717-2

$L'_{nT,w}$ (CI) [dB]: 49 (1) dB
Maximum Pass Level [dB]: 64 dB

PASS
Adverse Aggregated Deviations [dB]: 29.1

Partition Detail: FT0001** : Generic Timber Joist
Regupol resilient layer, timber floorboards, timber joists, plasterboard, acoustic hangers, suspended metal frame, 2 layers of dense plasterboard, mineral wool in cavity

Test Exceptions (if any): None Declared by Tester

IMPACT SOUND INSULATION TEST: Approved Document E (2003) including 2004, 2010, 2013, and 2015 Amendments
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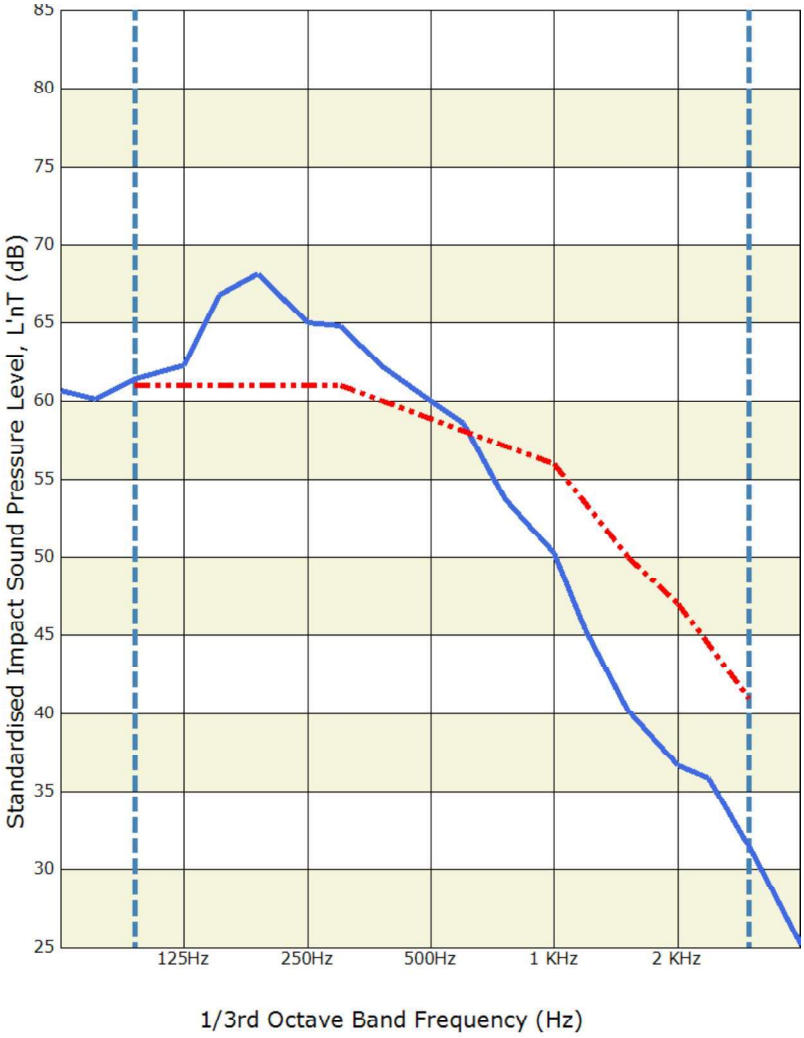
Registered Impact Test Certificate

Test No:	206899	**Test Job Ref:**	66487	**Test Org Name:**	RS Acoustic Engineering Ltd
Customer:	J Greenwood (Builders) Ltd			**Test Type:**	Impact (Floor)
Address:	Unit B9, Greengate Industrial Estate, Greenside Way, Chadderton	**Job Address:**	63 - 65 Upper Chorlton Road, Whalley Range, Manchester	**Test Date:**	03/04/2025
				Tester:	Ryan Swales
				Site type:	Material Change of Use
Postcode:	M24 1SW	**Postcode:**	M16 7RQ	**Site Build:**	Dwelling-House/Flat

	Source Room:	**Partition:**	**Receiver Room:**
Description:	Flat 8 Kitchen / Living Room	FT0001**	Flat 4 Kitchen / Living Room
Volume / Area	60.8m³	23.6m²	60.8m³

Frequency (Hz)	L'_{nT} 1/3 Octave (dB)	Correction
50*	67.5	
63*	60.7	
80*	60.1	
100	61.4	
125	62.3	
160	66.8	
200	68.1	
250	65	
315	64.8	
400	62.2	
500	60	
630	58.6	
800	53.7	
1K	50.3	
1.25K	45.3	
1.6K	40.2	
2K	36.7	
2.5K	35.9	
3.15K	31.5	
4K*	25.2	
5K*	16.6	

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



*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]: 59 (0) dB
Maximum Pass Level [dB]: 64 dB

PASS
Adverse Aggregated Deviations [dB]: 26.2

Partition Detail: FT0001** : Generic Timber Joist
Regupol resilient layer, timber floorboards, timber joists, plasterboard, acoustic hangers, suspended metal frame, 2 layers of dense plasterboard, mineral wool in cavity

Test Exceptions (if any): None Declared by Tester

IMPACT SOUND INSULATION TEST: Approved Document E (2003) including 2004, 2010, 2013, and 2015 Amendments
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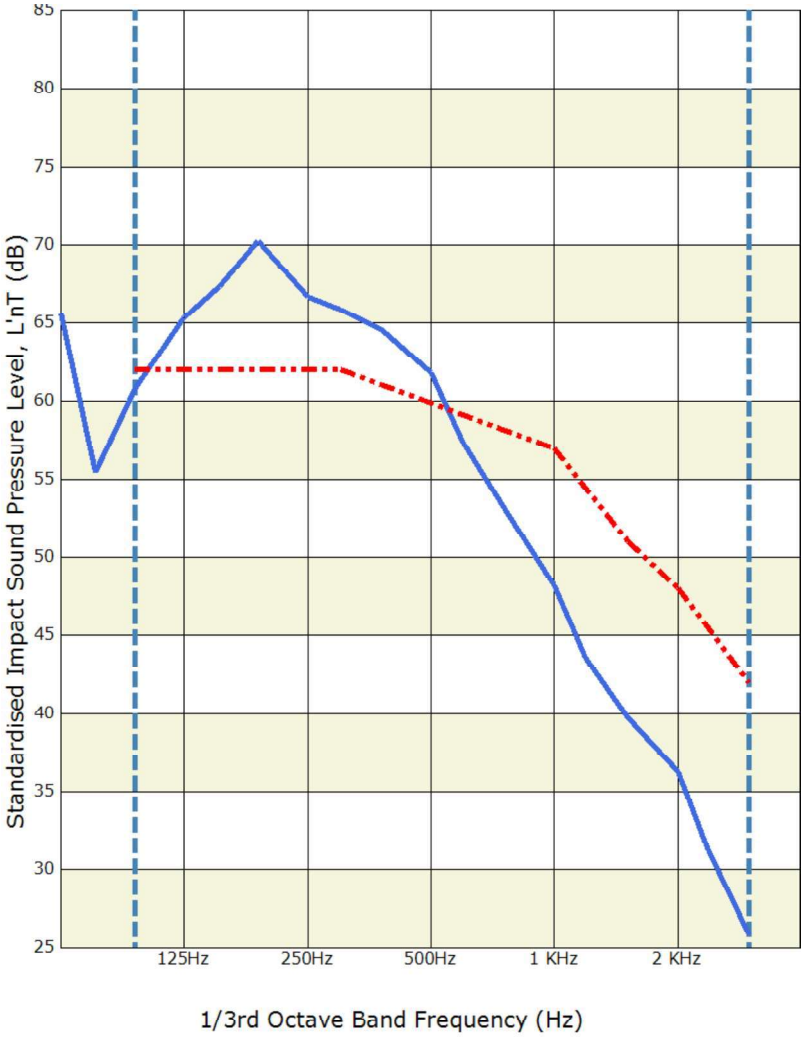
Registered Impact Test Certificate

Test No:	206900	**Test Job Ref:**	66487	**Test Org Name:**	RS Acoustic Engineering Ltd
Customer:	J Greenwood (Builders) Ltd			**Test Type:**	Impact (Floor)
Address:	Unit B9, Greengate Industrial Estate, Greenside Way, Chadderton	**Job Address:**	63 - 65 Upper Chorlton Road, Whalley Range, Manchester	**Test Date:**	03/04/2025
				Tester:	Ryan Swales
				Site type:	Material Change of Use
Postcode:	M24 1SW	**Postcode:**	M16 7RQ	**Site Build:**	Dwelling-House/Flat

	Source Room:	**Partition:**	**Receiver Room:**
Description:	Flat 8 Bedroom 1	FT0001**	Flat 4 Bedroom 1
Volume / Area	25.4m³	10.4m²	25.4m³

Frequency (Hz)	L'_{nT} 1/3 Octave (dB)	Correction
50*	69.9	
63*	65.6	
80*	55.5	
100	60.8	
125	65.3	
160	67.3	
200	70.3	
250	66.7	
315	65.9	
400	64.5	
500	61.8	
630	57.3	
800	53.1	
1K	48.2	
1.25K	43.6	
1.6K	39.7	
2K	36.3	
2.5K	31.2	
3.15K	25.9	
4K*	19.6	
5K*	15.4	

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



*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]: 60 (0) dB
Maximum Pass Level [dB]: 64 dB

PASS
Adverse Aggregated Deviations [dB]: 30.8

Partition Detail: Regupol resilient layer, timber floorboards, timber joists, plasterboard, acoustic hangers, suspended metal frame, 2 layers of dense plasterboard, mineral wool in cavity

Test Exceptions (if any): None Declared by Tester

IMPACT SOUND INSULATION TEST: Approved Document E (2003) including 2004, 2010, 2013, and 2015 Amendments
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