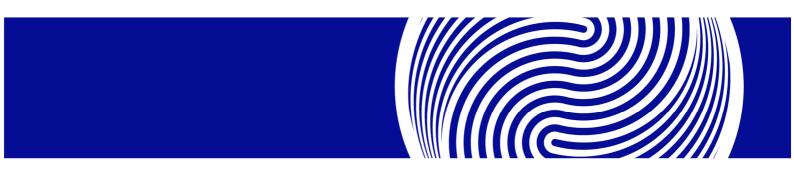




# 186 High Street, Edgware London

**Building Regulations 2010 Approved Document E 2003** 



Sound Insulation Test Report Report 18310.PCT.01

Shanly Homes Ltd (North London) Sorbon 24-26 Aylesbury End Beaconsfield HP9 1LW



<b>Date of issue:</b> 18/05/2021			
Site Address	ite Address Type of Property Test Date		
186 High Street, Edgware, HA8 7EX	New-build	14/05/2021	
Tested by:	Written by:	Checked by:	
Gonçalo Lemos MIOA	Gonçalo Lemos MIOA	Aidan Tolkien MIOA	

## Revision History

Original report: 18310.PCT.01

Report number	Changes	Reason of change	

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KP Acoustics Ltd. 2020

## **Contents**

1.0	INTRODUCTION	1
1.0		
2.0	METHODOLOGY	1
2.1	Airborne Tests	1
2.2	Impact Tests	1
2.3	Reverberation Time	1
2.4	Background Noise	1
3.0	INSTRUMENTATION	2
4.0	REQUIREMENTS	2
5.0	TEST ROOMS	2
6.0	RESULTS	3
6.1	Airborne Tests	2
6.2	Impact Tests	
0.2	IIIpact resis	4
7.0	CONCLUSIONS	5

## **List of Attachments**

Figures 18310.AB1-9 Airb Figures 18310.IP1-4 Imp

Airborne Sound Insulation Test Results Impact Sound Insulation Test Results





### 1.0 INTRODUCTION

KP Acoustics Ltd, 1 Galena Road, London, W6 0LT has been commissioned by Shanly Homes Ltd (North London), Sorbon 24-26 Aylesbury End, Beaconsfield, HP9 1LW, to undertake precompletion tests at 186 High Street, Edgware, HA8 7EX, under the provisions of Approved Document E (2003 Edition).

This report records the results of the sound insulation tests and details the procedures used throughout the measurement and post-processing phases.

The sound insulation tests detailed in this report were undertaken in full accordance with BS EN ISO 140-4: 1998 "Field measurements of airborne sound insulation between rooms", BS EN ISO 140-7: 1998 "Field measurements of impact sound insulation between rooms" and the procedures described in Annex B of the Approved Document.

### 2.0 METHODOLOGY

### 2.1 Airborne Tests

High volume "pink" noise was generated from one loudspeaker in the source room, positioned to obtain a diffuse sound field. A spatial average of the resulting one-third octave band noise levels between 100 Hz and 3150 Hz was obtained by using a moving microphone technique over a minimum period of 30 seconds at each of two measurements. The same measurement procedure was used in the receiver room. The procedure was then repeated for a second loudspeaker position within the source room, as required by the Standard.

The results of the tests were rated in accordance with BS EN ISO 717-1: 1997 "Rating of sound insulation in buildings and of building elements. Part 1 Airborne sound insulation".

### 2.2 Impact Tests

A tapping machine complying with Annex A of BS EN ISO 140-7 was placed in four different positions in the source room. The resulting one-third octave band noise levels between 100 Hz and 3150 Hz were measured at six distributed positions, for a minimum of ten seconds at each position. Two receiver measurements were conducted for each tapping machine position for the first two positions, and one receiver measurement was conducted for each of the two subsequent positions.

The results of the tests were rated in accordance with BS EN ISO 717-2: 1997 "Rating of sound insulation in buildings and of building elements. Part 2 Impact sound insulation".

### 2.3 Reverberation Time

Reverberation time measurements were taken following the procedure described below in order to correct the receiver levels for room characteristics.

The source was moved to the receiver room and "white noise" was generated and stopped instantaneously in order to measure the reverberation time in each of the one-third octave bands between 100 Hz and 3150 Hz. The internal programme of the meter was used to measure the decay time of the sound in the room. This was repeated six times in the receiver room in order to obtain an average result.

## 2.4 Background Noise

The background noise levels in the receiver rooms were measured during the tests and the receiving room levels corrected in accordance with BS EN ISO 140-4:1998 and BS EN ISO 140-7:1998.



18310.PCT.01 18 May 2021

The dominant source of background noise observed during the tests was road traffic noise from surrounding roads.

#### 3.0 **INSTRUMENTATION**

The instrumentation used during testing is shown in Table 3.1 below.

Instrument	Manufacturer and Type	Serial Number
SLM3  Precision integrating sound level meter & analyser	NTi Audio, XL2-TA Calibration No: UCRT20/2031-2 and UCRT20/2034 Calibration Date 26 <sup>th</sup> October 2020	A2A-09034-E0
LS4 Active Loudspeaker	RCF ART 310A   PFOC02196	
Pink Noise Source	NTi Audio Minirator MR-PRO	G2P-RAEXP-G0
Calibrator 1	Larson Davis CAL200 Calibration No: 05223/1 Calibration Date 27/04/2021	17148
TP4 Sound Solutions Series 2 Calibration No: 04541/1 TP2286 Calibration Date 09/01/2020		TP2286

Table 3.1 Instrumentation used during testing

#### 4.0 **REQUIREMENTS**

The sound insulation requirements for this development, as prescribed by Approved Document E (2003 Edition) of the Building Regulations 2010, are shown in Table 6.1 where they are compared to the test results.

#### 5.0 **TEST ROOMS**

Details of the rooms tested are shown in Table 5.1 below. All the rooms tested were in a finished state, with doors fitted, walls painted and all sockets installed.

Test Element	Room 1	Room 2	Approximate Test Area	Construction
Floor	Living Room/Kitchen, Plot 8 (74m³)	Living Room/Kitchen, Plot 14 (74m³)	30m²	Unknown at time of test
Wall	Living Room/Kitchen, Plot 8 (74m³)	Bedroom, Plot 9 (26m³)	8m²	Unknown at time of test





Test Element	Room 1	Room 2	Approximate Test Area	Construction
Floor	Living Room/Kitchen, Plot 8 (74m³)	Living Room/Kitchen, Plot 2 (74m³)	30m²	Unknown at time of test
Wall	Bedroom, Plot 11 (43m³)	Bedroom, Plot 12 (29m³)	9m²	Unknown at time of test
Wall	Living Room/Kitchen, Plot 11 (65m³)	Bedroom, Plot 10 (36m³)	10m²	Unknown at time of test
Wall	Living Room/Kitchen, Plot 13 (60m³)	Living Room/Kitchen, Plot 12 (52m³)	8m²	Unknown at time of test
Floor	Living Room/Kitchen, Plot 13 (60m³)	Living Room/Kitchen, Plot 7 (60m³)	23m²	Unknown at time of test
Floor	Living Room/Kitchen, Plot 11 (65m³)	Living Room/Kitchen, Plot 5 (65m³)	25m²	Unknown at time of test
Floor	Ground Floor Commercial Unit (224m³)	Living Room/Kitchen, Plot 3 (57m³)	23m²	Unknown at time of test

**Table 5.1 Room details** 

All the procedures described in Annex B of Approved Document E 2003 of the Building Regulations 2010 have been followed.

### 6.0 RESULTS

The results of testing are summarised in the tables below. For airborne tests, the higher the value, the better the performance. For impact tests, the lower the value, the better the performance.

### 6.1 Airborne Tests

The summarised results of the airborne tests are shown in Table 6.1. Full third octave band results are shown in Figures 18310.AB1-9 attached.





Test Element	Source	Receiver	Criterion	Test Result	Pass/Fail
Floor	Living Room/Kitchen, Plot 8	Living Room/Kitchen, Plot 14	D <sub>nT,w</sub> + C <sub>tr</sub> ≥ 45dB	D <sub>nT,w</sub> + C <sub>tr</sub> 49dB	Pass
Wall	Living Room/Kitchen, Plot 8	Bedroom, Plot 9	D <sub>nT,w</sub> + C <sub>tr</sub> ≥ 45dB	D <sub>nT,w</sub> + C <sub>tr</sub> 57dB	Pass
Floor	Living Room/Kitchen, Plot 8	Living Room/Kitchen, Plot 2	D <sub>nT,w</sub> + C <sub>tr</sub> ≥ 45dB	D <sub>nT,w</sub> + C <sub>tr</sub> 49dB	Pass
Wall	Bedroom, Plot 11	Bedroom, Plot 12	D <sub>n7,w</sub> + C <sub>tr</sub> ≥ 45dB	D <sub>nT,w</sub> + C <sub>tr</sub> 52dB	Pass
Wall	Living Room/Kitchen, Plot 11	Bedroom, Plot 10	D <sub>nT,w</sub> + C <sub>tr</sub> ≥ 45dB	D <sub>nT,w</sub> + C <sub>tr</sub> 54dB	Pass
Wall	Living Room/Kitchen, Plot 13	Living Room/Kitchen, Plot 12	D <sub>nT,w</sub> + C <sub>tr</sub> ≥ 45dB	D <sub>nT,w</sub> + C <sub>tr</sub> 54dB	Pass
Floor	Living Room/Kitchen, Plot 13	Living Room/Kitchen, Plot 7	D <sub>n7,w</sub> + C <sub>tr</sub> ≥ 45dB	D <sub>nT,w</sub> + C <sub>tr</sub> 53dB	Pass
Floor	Living Room/Kitchen, Plot 11	Living Room/Kitchen, Plot 5	D <sub>n7,w</sub> + C <sub>tr</sub> ≥ 45dB	D <sub>nT,w</sub> + C <sub>tr</sub> 53dB	Pass
Floor	Ground Floor Commercial Unit	Living Room/Kitchen, Plot 3	D <sub>n7,w</sub> + C <sub>tr</sub> ≥ 45dB	D <sub>nT,w</sub> + C <sub>tr</sub> 64dB	Pass

**Table 6.1 Airborne Test Results** 

## 6.2 Impact Tests

The summarised results of the impact tests are shown in Table 6.2. Full third octave band results are shown in Figures 18310.IP1-4 attached.

Test Element	Source	Receiver	Criterion	Test Result	Pass/Fail
Floor	Living Room/Kitchen, Plot 14	Living Room/Kitchen, Plot 8	L' <sub>nT,w</sub> ≤ 62dB	L' <sub>nT,w</sub> 60dB	Pass
Floor	Living Room/Kitchen, Plot 8	Living Room/Kitchen, Plot 2	L' <sub>n7,w</sub> ≤ 62dB	L' <sub>n7,w</sub> 58dB	Pass





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Test Element	Source	Receiver	Criterion	Test Result	Pass/Fail
Floor	Living Room/Kitchen, Plot 13	Living Room/Kitchen, Plot 7	L' <sub>nT,w</sub> ≤ 62dB	L' <sub>nT,w</sub> 52dB	Pass
Floor	Living Room/Kitchen, Plot 11	Living Room/Kitchen, Plot 5	L' <sub>nT,w</sub> ≤ 62dB	L' <sub>n7,w</sub> 51dB	Pass

Table 6.2 Impact test results

#### 7.0 **CONCLUSIONS**

Sound Insulation tests were undertaken at 186 High Street, Edgware, HA8 7EX under the requirement of Building Regulations 2010 Approved Document E (2003 Edition).

Ratings of the airborne sound insulation of the walls and floors tested have been calculated in accordance with the measurement and rating procedures defined in BS EN ISO 140 Part 4:1998 and BS EN ISO 717 Part 1:1997, respectively.

Ratings of the impact sound insulation of the floors have been derived in accordance with the measurement and rating procedures defined in BS EN ISO 140 Part 7:1998 and BS EN ISO 717 Part 2:1997, respectively.

The airborne performance of the walls tested meets the requirements of Approved Document E (2003 Edition).

The airborne performance of the floors tested meets the requirements of Approved Document E (2003 Edition).

The impact sound insulation performance of the floors tested meets the requirements of Approved Document E (2003 Edition).

Field measurements of airborne sound insulation between rooms

(NB Higher  $D_{nT,w} + C_{tr}$  figures denote better sound insulation performance)

Construction Tested:

Floor:- unknown at time of tests

Rooms Tested From : Living Room/Kitchen, Plot 8

To : Living Room/Kitchen, Plot 14

Figure:

18310/AB1

Frequency Hz	DnT dB
100	37.0
125	42.5
160	45.9
200	45.2
250	45.6
315	45.4
400	48.8
500	50.9
630	52.0
800	53.3
1k	53.7
1.25k	52.6
1.6k	50.8
2k	48.2
2.5k	49.8
3.15k	53.6

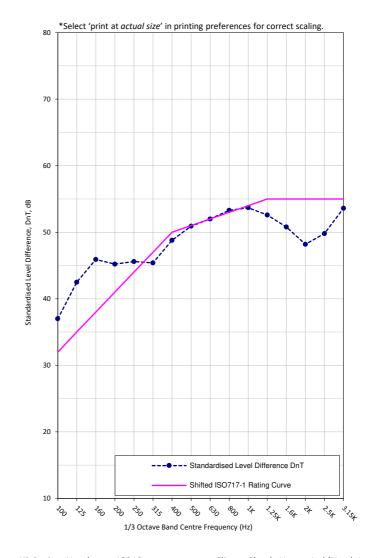
-1 dB	Shift Curve By:
23.2 dB	Sum of Adverse Deviations =
-2 dB	C <sub>tr =</sub>
51 dB	D <sub>n7.w</sub> =

$$D_{nT,w} + C_{tr} = 49 \text{ dB}$$

Evaluation based on field measurement results obtained in onethird octave bands by an engineering method.

Test Standard: BS EN ISO 140-4
Rating Standard: BS EN ISO 717-1
Test Date: 14/05/2021

Authorised Tester: Gonçalo Lemos MIOA



KP Project Number: 18310 Client: Shanly Homes Ltd (North London)

Site: 186 High Street, Edgware, HA8

Field measurements of airborne sound insulation between rooms

(NB Higher  $D_{nT,w} + C_{tr}$  figures denote better sound insulation performance)

Construction Tested:

Wall:- unknown at time of tests

Frequency Hz	DnT dB	
100	40.6	
125	48.7	
160	46.3	
200	53.4	
250	52.6	
315	55.1	
400	61.5	
500	68.4	
630	69.9	*
800	70.8	*
1k	68.5	*
1.25k	68.9	*
1.6k	69.0	*
2k	71.1	*
2.5k	74.2	*
3.15k	78.0	*
* Limit of N	leasurement	

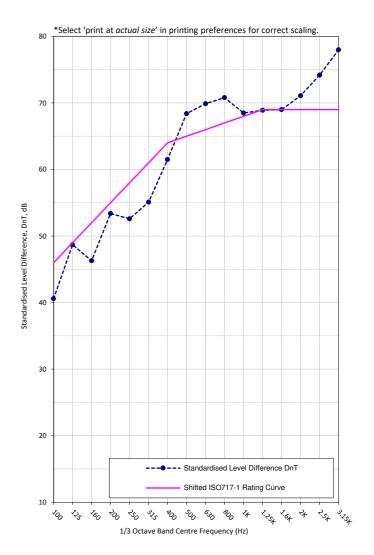
13 dB	Shift Curve By:
26.9 dB	Sum of Adverse Deviations =
-8 dB	C <sub>tr =</sub>
65 dB	D <sub>n7,w</sub> =

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

Evaluation based on field measurement results obtained in onethird octave bands by an engineering method.

Test Standard: BS EN ISO 140-4
Rating Standard: BS EN ISO 717-1
Test Date: 14/05/2021

Authorised Tester: Gonçalo Lemos MIOA



**Rooms Tested** 

Figure:

From: Living Room/Kitchen, Plot 8
To: Bedroom, Plot 9

18310/AB2

KP Project Number: 18310 Client: Shanly Homes Ltd (North London)

Site: 186 High Street, Edgware, HA8

Field measurements of airborne sound insulation between rooms (NB Higher  $D_{nT,w} + C_{tr}$  figures denote better sound insulation performance)

Construction Tested:

Floor:- unknown at time of tests

**Rooms Tested** 

From: Living Room/Kitchen, Plot 8

18310/AB3

Figure:

To: Living Room/Kitchen, Plot 2

Frequency Hz	DnT dB
100	40.5
125	43.0
160	43.0
200	44.6
250	45.9
315	46.3
400	48.1
500	50.6
630	51.8
800	51.8
1k	52.3
1.25k	51.5
1.6k	49.9
2k	47.7
2.5k	49.2
3.15k	52.9

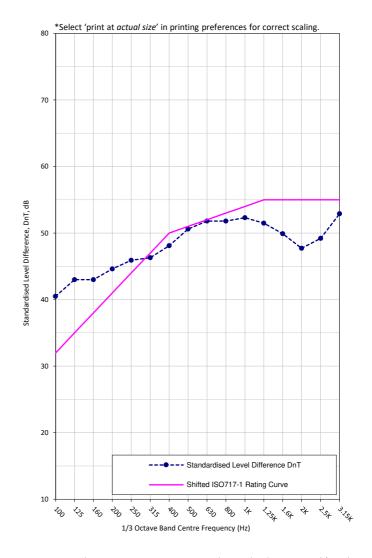
-1 dB	Shift Curve By:
29.9 dB	Sum of Adverse Deviations =
-2 dB	C <sub>tr =</sub>
51 dB	D <sub>n7,w</sub> =

$$D_{nT,w} + C_{tr} = 49 \text{ dB}$$

Evaluation based on field measurement results obtained in onethird octave bands by an engineering method.

Test Standard: BS EN ISO 140-4
Rating Standard: BS EN ISO 717-1
Test Date: 14/05/2021

Authorised Tester: Gonçalo Lemos MIOA



KP Project Number: 18310 Client: Shanly Homes Ltd (North London)

Site: 186 High Street, Edgware, HA8

Field measurements of airborne sound insulation between rooms (NB Higher  $D_{nT,w} + C_{tr}$  figures denote better sound insulation performance)

Construction Tested:

Wall:- unknown at time of tests

Rooms Tested From : **Bedroom, Plot 11**To : **Bedroom, Plot 12** 

Figure:

18310/AB4

Frequency Hz	DnT dB
100	32.8
125	45.4
160	47.0
200	53.3
250	58.2
315	60.0
400	64.0
500	66.9
630	67.9
800	69.0
1k	69.1
1.25k	68.6
1.6k	67.8
2k	65.1
2.5k	65.7
3.15k	69.5

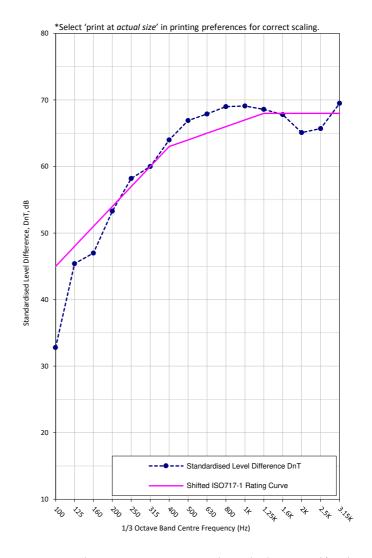
12 dB	Shift Curve By:
24.9 dB	Sum of Adverse Deviations =
-12 dB	C <sub>tr =</sub>
64 dB	D <sub>n7.w</sub> =

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

Evaluation based on field measurement results obtained in onethird octave bands by an engineering method.

Test Standard: BS EN ISO 140-4
Rating Standard: BS EN ISO 717-1
Test Date: 14/05/2021

Authorised Tester: Gonçalo Lemos MIOA



KP Project Number: 18310 Client: Shanly Homes Ltd (North London)

Site: 186 High Street, Edgware, HA8

Field measurements of airborne sound insulation between rooms

(NB Higher  $D_{nT,w} + C_{tr}$  figures denote better sound insulation performance)

Construction Tested:

Wall:- unknown at time of tests

Frequency Hz	DnT dB	
100	40.3	
125	40.2	
160	40.8	
200	48.8	
250	51.3	
315	54.6	
400	57.1	
500	62.3	
630	68.1	*
800	68.1	*
1k	68.4	*
1.25k	66.4	*
1.6k	63.8	
2k	63.8	
2.5k	66.5	
3.15k	70.6	

9 dB	Shift Curve By:
26.3 dB	Sum of Adverse Deviations =
-7 dB	C <sub>tr =</sub>
61 dB	D <sub>n7,w</sub> =

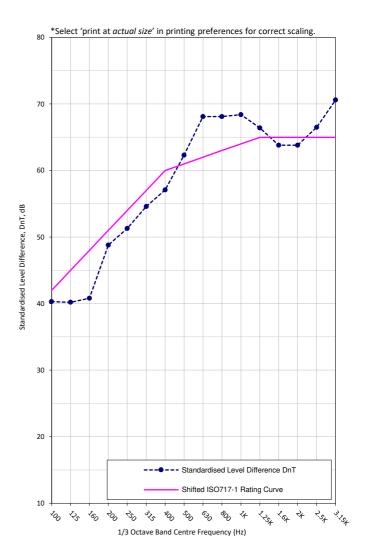
Limit of Measurement

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

Evaluation based on field measurement results obtained in onethird octave bands by an engineering method.

Test Standard: BS EN ISO 140-4
Rating Standard: BS EN ISO 717-1
Test Date: 14/05/2021

Authorised Tester: Gonçalo Lemos MIOA



**Rooms Tested** 

Figure:

From: Living Room/Kitchen, Plot 11
To: Bedroom, Plot 10

18310/AB5

KP Project Number: 18310 Client: Shanly Homes Ltd (North London)

Site: 186 High Street, Edgware, HA8

Standardised level difference according to 150

Field measurements of airborne sound insulation between rooms

(NB Higher  $D_{nT,w} + C_{tr}$  figures denote better sound insulation performance)

Construction Tested:

Wall:- unknown at time of tests

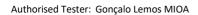
Frequency Hz	DnT dB
100	36.7
125	43.3
160	47.8
200	50.5
250	53.4
315	54.4
400	57.3
500	61.9
630	62.9
800	63.6
1k	64.8
1.25k	66.1
1.6k	65.7
2k	64.3
2.5k	65.9
3.15k	69.6

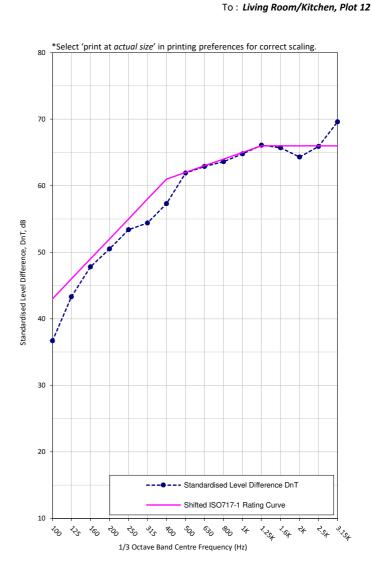
10 dB	Shift Curve By:
23.5 dB	Sum of Adverse Deviations =
-8 dB	C <sub>tr =</sub>
62 dB	D <sub>n7,w</sub> =

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

Evaluation based on field measurement results obtained in onethird octave bands by an engineering method.

Test Standard: BS EN ISO 140-4
Rating Standard: BS EN ISO 717-1
Test Date: 14/05/2021





Rooms Tested

Figure:

From: Living Room/Kitchen, Plot 13

18310/AB6

KP Project Number: 18310 Client: Shanly Homes Ltd (North London)

Site: 186 High Street, Edgware, HA8

Field measurements of airborne sound insulation between rooms (NB Higher  $D_{nT,w} + C_{tr}$  figures denote better sound insulation performance)

Construction Tested:

Floor:- unknown at time of tests

Rooms Tested From: Living Room/Kitchen, Plot 13

To: Living Room/Kitchen, Plot 7

18310/AB7

Frequency Hz	DnT dB
100	39.9
125	45.0
160	44.8
200	49.8
250	49.6
315	52.0
400	52.6
500	55.4
630	57.7
800	57.4
1k	58.3
1.25k	57.4
1.6k	54.6
2k	51.8
2.5k	53.2
3.15k	56.0

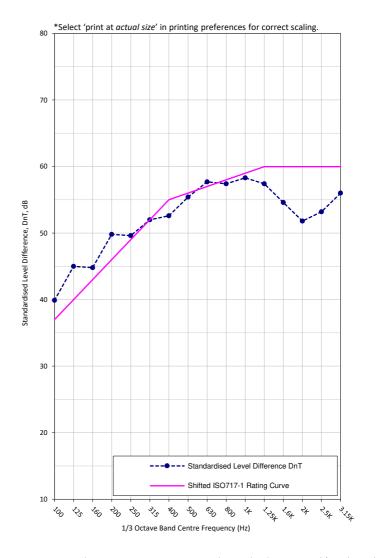
4 dB	Shift Curve By:
31.3 dB	Sum of Adverse Deviations =
-3 dB	C <sub>tr=</sub>
56 dB	D <sub>n.T</sub> =

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

Evaluation based on field measurement results obtained in onethird octave bands by an engineering method.

Test Standard: BS EN ISO 140-4
Rating Standard: BS EN ISO 717-1
Test Date: 14/05/2021

Authorised Tester: Gonçalo Lemos MIOA



KP Project Number: 18310 Client: Shanly Homes Ltd (North London)

Site: 186 High Street, Edgware, HA8

Field measurements of airborne sound insulation between rooms (NB Higher  $D_{nT,w} + C_{tr}$  figures denote better sound insulation performance)

Construction Tested:

Floor:- unknown at time of tests

Rooms Tested From : Living Room/Kitchen, Plot 11

To : Living Room/Kitchen, Plot 5

Figure:

18310/AB8

Frequency Hz	DnT dB
100	40.8
125	45.1
160	45.7
200	48.6
250	51.1
315	52.5
400	53.2
500	54.1
630	56.4
800	57.1
1k	57.2
1.25k	56.5
1.6k	54.5
2k	51.8
2.5k	52.1
3.15k	55.6

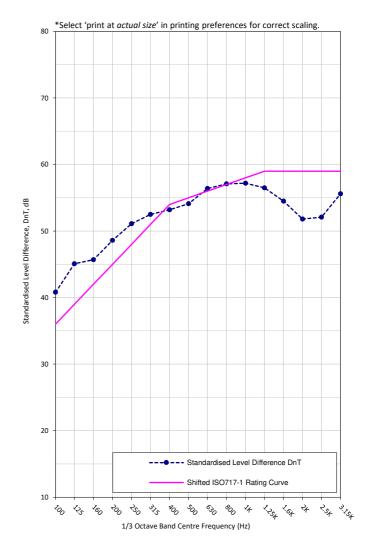
3 dB	Shift Curve By:	
27.0 dB	Sum of Adverse Deviations =	
-2 dB	C <sub>tr =</sub>	
55 dB	D <sub>n7,w</sub> =	

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

Evaluation based on field measurement results obtained in onethird octave bands by an engineering method.

Test Standard: BS EN ISO 140-4
Rating Standard: BS EN ISO 717-1
Test Date: 14/05/2021

Authorised Tester: Gonçalo Lemos MIOA



KP Project Number: 18310 Client: Shanly Homes Ltd (North London)

Site: 186 High Street, Edgware, HA8

Field measurements of airborne sound insulation between rooms (NB Higher  $D_{nT,w}+C_{tr}$  figures denote better sound insulation performance)

Construction Tested:

Floor:- unknown at time of tests

Rooms Tested

From: Ground Floor Commercial Unit

18310/AB9

Figure:

To: Living Room/Kitchen, Plot 3

Frequency Hz	DnT dB	
100	54.4	
125	58.1	
160	57.3	
200	61.2	
250	62.7	*
315	62.1	*
400	65.6	*
500	65.6	*
630	64.4	*
800	67.1	*
1k	66.8	*
1.25k	68.1	*
1.6k	65.3	*
2k	64.2	*
2.5k	65.8	*
3.15k	66.8	*
* Limit of Measurement		

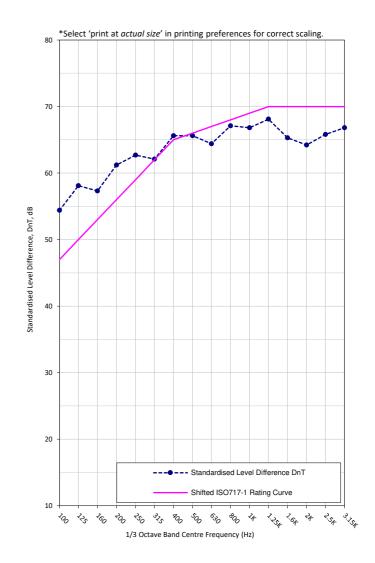
14 dB	Shift Curve By:	
25.9 dB	Sum of Adverse Deviations =	
-2 dB	C <sub>tr =</sub>	
66 dB	D <sub>n7,w</sub> =	

$$D_{nT,w} + C_{tr} = 64 \text{ dB}$$

Evaluation based on field measurement results obtained in onethird octave bands by an engineering method.

Test Standard: BS EN ISO 140-4
Rating Standard: BS EN ISO 717-1
Test Date: 14/05/2021

Authorised Tester: Gonçalo Lemos MIOA



KP Project Number: 18310 Client: Shanly Homes Ltd (North London)

Site: 186 High Street, Edgware, HA8

# Impact Sound Insulation Test Figure : Standardised impact sound pressure level according to ISO 140-7

Field measurements of impact sound insulation of floors (NB Lower  $L'_{nT,w}$  figures denote better impact insulation performance)

Construction Tested:

Floor:- Not known at time of tests

Frequency Hz	L'nT dB
100	58.1
125	53.0
160	53.1
200	50.1
250	49.1
315	50.5
400	48.5
500	60.0
630	51.7
800	52.1
1k	52.3
1.25k	53.6
1.6k	54.6
2k	54.8
2.5k	54.1
3.15k	52.5

Shift Curve By: 0 dB
Sum of Adverse Deviations = 30.0 dB

L'<sub>nT,w</sub> = 60 dB

Evaluation based on field measurement results obtained in onethird octave bands by an engineering method.

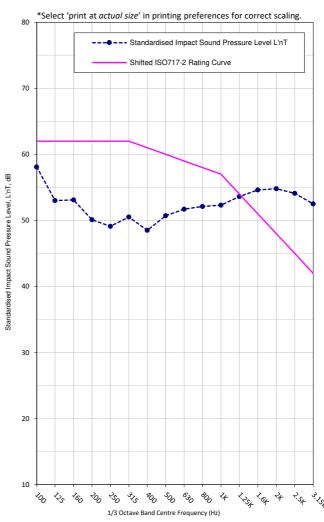
Test Standard: BS EN ISO 140-7
Rating Standard: BS EN ISO 717-2
Test Date: 14/05/2021

Authorised Tester: Gonçalo Lemos MIOA

Rooms Tested From : Living Room/Kitchen, Plot 14

To : Living Room/Kitchen, Plot 8

18310/IP1



KP Project Number: 18310 Client: Shanly Homes Ltd (North London)

Site: 186 High Street, Edgware, HA8

# Impact Sound Insulation Test Figure: 18310/IP2 Standardised impact sound pressure level according to ISO 140-7

Field measurements of impact sound insulation of floors (NB Lower L'<sub>nT,w</sub> figures denote better impact insulation performance)

Construction Tested:

Floor:- Not known at time of tests

Frequency Hz	L'nT dB
100	60.1
125	58.5
160	57.0
200	52.1
250	50.8
315	51.1
400	51.7
500	50.9
630	50.7
800	49.2
1k	50.6
1.25k	51.8
1.6k	54.1
2k	54.1
2.5k	51.5
3.15k	48.2

Shift Curve By: -2 dB
Sum of Adverse Deviations = 30.0 dB

 $L'_{nT,w} = 58 \text{ dB}$ 

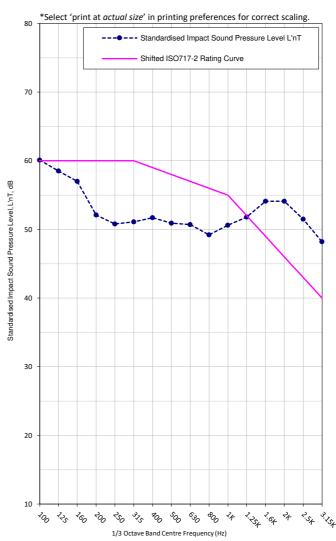
Evaluation based on Jiela measurement results obtained in onethird octave bands by an engineering method.

Test Standard: BS EN ISO 140-7
Rating Standard: BS EN ISO 717-2
Test Date: 14/05/2021

Authorised Tester: Gonçalo Lemos MIOA

Rooms Tested From : Living Room/Kitchen, Plot 8

To : Living Room/Kitchen, Plot 2



KP Project Number: 18310 Client: Shanly Homes Ltd (North London)

Site: 186 High Street, Edgware, HA8

# Impact Sound Insulation Test Figure: 18310/IP3 Standardised impact sound pressure level according to ISO 140-7

Field measurements of impact sound insulation of floors (NB Lower L'<sub>nT.w</sub> figures denote better impact insulation performance)

Construction Tested:

Floor:- Not known at time of tests

Frequency Hz	L'nT dB
100	55.0
125	51.2
160	54.1
200	47.2
250	48.1
315	47.9
400	47.4
500	45.6
630	45.6
800	47.1
1k	46.3
1.25k	46.7
1.6k	48.8
2k	47.3
2.5k	44.4
3.15k	41.0

Shift Curve By: -8 dB
Sum of Adverse Deviations = 29.3 dB

 $L'_{nT,w} = 52 dB$ 

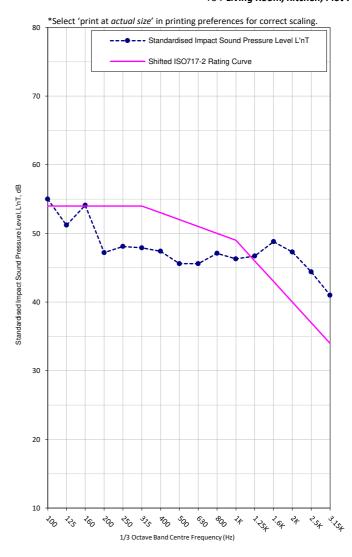
Evaluation based on Jiela measurement results obtained in onethird octave bands by an engineering method.

Test Standard: BS EN ISO 140-7
Rating Standard: BS EN ISO 717-2
Test Date: 14/05/2021

Authorised Tester: Gonçalo Lemos MIOA

Rooms Tested From : Living Room/Kitchen, Plot 13

To : Living Room/Kitchen, Plot 7



KP Project Number: 18310 Client: Shanly Homes Ltd (North London)

Site: 186 High Street, Edgware, HA8

# Impact Sound Insulation Test Figure : Standardised impact sound pressure level according to ISO 140-7

Field measurements of impact sound insulation of floors

(NB Lower L'<sub>nT.w</sub> figures denote better impact insulation performance)

Construction Tested:

Floor:- Not known at time of tests

Frequency Hz	L'nT dB
100	55.9
125	51.5
160	53.2
200	49.5
250	45.3
315	44.9
400	46.2
500	46.2
630	44.5
800	44.7
1k	44.9
1.25k	46.1
1.6k	45.8
2k	46.7
2.5k	44.2
3.15k	39.3

Shift Curve By: -9 dB
Sum of Adverse Deviations = 30.2 dB

L'<sub>nT,w</sub> = 51 dB

Evaluation basea on Jiela measurement results obtainea in onethird octave bands by an engineering method.

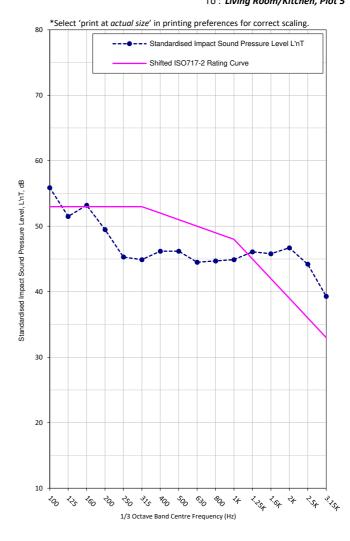
Test Standard: BS EN ISO 140-7
Rating Standard: BS EN ISO 717-2
Test Date: 14/05/2021

Authorised Tester: Gonçalo Lemos MIOA

Rooms Tested From : Living Room/Kitchen, Plot 11

To : Living Room/Kitchen, Plot 5

18310/IP4



KP Project Number: 18310 Client: Shanly Homes Ltd (North London)

Site: 186 High Street, Edgware, HA8 7EX