Building Regulation Performance Requirements:

Revision No. 1

"In the secretary of state's view the normal way of satisfying Requirement E1 will be to build separating walls, separating floors, and stairs that have a separating function, together with the associated flanking construction, in such a way that they achieve the sound insulation values for dwelling houses and flats, and the values for rooms for residential purposes"

Purpose built dwelling-houses and flats

Separating walls:	airborne	$D_{nT,w} + C_{tr}$	= 45dB or higher
Separating floors:	airborne	$D_{nT,w} + C_{tr}$	= 45dB or higher
Separating floors:	impact	$L'_{nT,w}$	= 62dB or lower

Dwelling-houses and flats formed by material change of use.

Separating walls:	airborne	$D_{nT,w} + C_{tr}$	= 43dB or higher
Separating floors:	airborne	$D_{nT,w} + C_{tr}$	= 43dB or higher
Separating floors:	impact	$L'_{nT,w}$	= 64dB or lower

Purpose built rooms for residential purposes.

Separating walls:	airborne	$D_{nT,w} + C_{tr}$	= 43dB or higher
Separating floors:	airborne	$D_{nT,w} + C_{tr}$	= 45dB or higher
Separating floors:	impact	$L'_{nT,w}$	= 62dB or lower

Rooms for residential purposes formed by material change of use.

Separating walls:	airborne	$D_{nT,w} + C_{tr}$	= 43dB or higher
Separating floors:	airborne	$D_{nT,w} + C_{tr}$	= 43dB or higher
Separating floors:	impact	$L'_{nT,w}$	= 64dB or lower

Results:

Revision No. 1

Table 1. Vertical (airborne) across separating floors.

Test	Source Room	Volume	Receiver Room	Volume	$D_{nT,w}+C_{tr}$	Comment
10975S-1	4th Floor, Apartment 42, Studio	44.3m³	5th Floor, Apartment 54, Studio	44.1m³	53 dB	PASS
10975S-3	5th Floor, Apartment 53, Studio	44.8m³	4th Floor, Apartment 41, Studio	44.5m³	57 dB	PASS
10975S-5	2nd Floor, Apartment 14, Kitchen/Living Room/Dining Room	59.5m³	3rd Floor, Apartment 24, Kitchen/Living Room/Dining Room	57.2m³	58 dB	PASS
10975S-7	2nd Floor, Apartment 13, Bedroom	41.0m³	3rd Floor, Apartment 23, Bedroom	40.5m³	62 dB	PASS
10975S-9	3rd Floor, Apartment 25, Kitchen	59.7m³	2nd Floor, Apartment 15, Kitchen	59.6m³	61 dB	PASS
10975S-11	3rd Floor, Apartment 25, Bedroom 2	32.6m³	2nd Floor, Apartment 15, Bedroom 2	30.8m³	62 dB	PASS
10975S-13	3rd Floor, Apartment 25, Bedroom 1	31.8m³	3nd Floor, Apartment 15, Bedroom 1	30.6m³	64 dB	PASS
10975S-15	3rd Floor, Apartment 24, Bedroom 2	23.6m³	2nd Floor, Apartment 14, Bedroom 2	14.2m³	64 dB	PASS
10975S-17	4th Floor, Apartment 36, Studio	39.2m³	5th Floor, Apartment 49, Bedroom	37.3m³	60 dB	PASS
10975S-19	5th Floor, Apartment 48, Studio	47.2m³	4th Floor, Apartment 35, Studio	41.6m³	57 dB	PASS
10975S-21	5th Floor, Apartment 45, Bedroom	46.4m³	4th Floor, Apartment 33, Studio	41.1m³	62 dB	PASS
10975S-23	5th Floor, Apartment 44, Living Room	54.9m³	4th Floor, Apartment 32, Studio	41.8m³	60 dB	PASS
A 43dB or higher $D_{nT,w}+C_{tr}$ value is required to achieve a 'pass'						

Results Continued:

Table 2. Vertical (impact) across separating floors.

Test	Source Room	Volume	Receiver Room	Volume	$L'_{nT,w}$	Comment
10975S-2	5th Floor, Apartment 54, Studio	44.1m³	4th Floor, Apartment 42, Studio	44.3m³	51 dB	PASS[1]
10975S-4	5th Floor, Apartment 53, Studio	44.8m³	4th Floor, Apartment 41, Studio	44.5m³	50 dB	PASS[1]
10975S-6	3rd Floor, Apartment 24, Kitchen/Living Room/Dining Room	57.2m³	2nd Floor, Apartment 14, Kitchen/Living Room/Dining Room	59.5m³	41 dB	PASS[1]
10975S-8	3rd Floor, Apartment 23, Bedroom	40.5m³	2nd Floor, Apartment 13, Bedroom	41.0m³	41 dB	PASS[1]
10975S-10	3rd Floor, Apartment 25, Kitchen	59.7m³	2nd Floor, Apartment 15, Kitchen	59.6m³	40 dB	PASS[1]
10975S-12	3rd Floor, Apartment 25, Bedroom 2	32.6m³	2nd Floor, Apartment 15, Bedroom 2	30.8m³	39 dB	PASS[1]
10975S-14	3rd Floor, Apartment 25, Bedroom 1	31.8m³	3nd Floor, Apartment 15, Bedroom 1	30.6m³	38 dB	PASS[1]
10975S-16	3rd Floor, Apartment 24, Bedroom 2	23.6m³	2nd Floor, Apartment 14, Bedroom 2	14.2m³	41 dB	PASS[1]
10975S-18	5th Floor, Apartment 49, Bedroom	37.3m³	4th Floor, Apartment 36, Studio	39.2m³	41 dB	PASS[1]
10975S-20	5th Floor, Apartment 48, Studio	47.2m³	4th Floor, Apartment 35, Studio	41.6m³	40 dB	PASS[1]
10975S-22	5th Floor, Apartment 45, Bedroom	46.4m³	4th Floor, Apartment 33, Studio	41.1m³	41 dB	PASS[1]
10975S-24	5th Floor, Apartment 44, Living Room	54.9m³	4th Floor, Apartment 32, Studio	41.8m³	39 dB	PASS[1]
A 64dB or lower $L'_{nT,w}$ value is required to achieve a 'pass'						

[1]Should be taken as a guidance result as impact tests were performed over a laminate floor covering.

Results Continued:

Table 3. Horizontal (airborne) across separating walls.

Test	Source Room	Volume	Receiver Room	Volume	$D_{nT,w}+C_{tr}$	Comment
10975S-25	5th Floor, Apartment 53, Studio	44.8m³	5th Floor, Apartment 53, Studio	44.1m³	48 dB	PASS
10975S-26	4th Floor, Apartment 41, Studio	44.5m³	4th Floor, Apartment 42, Studio	44.3m³	46 dB	PASS
10975S-27	3rd Floor, Apartment 24, Kitchen/Living Room/Dining Room	57.2m³	3rd Floor, Apartment 23, Bedroom	40.5m³	48 dB	PASS
10975S-28	2nd Floor, Apartment 14, Kitchen/Living Room/Dining Room	59.5m³	2nd Floor, Apartment 13, Bedroom	41.0m³	48 dB	PASS
10975S-29	3rd Floor, Apartment 25, Kitchen	59.7m³	3rd Floor, Apartment 24, Kitchen	55.4m³	47 dB	PASS
10975S-30	3rd Floor, Apartment 25, Bedroom 2	32.6m³	3rd Floor, Apartment 24, Bedroom 2	23.6m³	45 dB	PASS
10975S-31	2nd Floor, Apartment 14, Kitchen	66.3m³	2nd Floor, Apartment 15, Kitchen	59.6m³	51 dB	PASS
10975S-32	2nd Floor, Apartment 15, Bedroom 2	30.8m³	2nd Floor, Apartment 14, Bedroom 2	23.3m³	45 dB	PASS
10975S-33	5th Floor, Apartment 48, Studio	47.2m³	5th Floor, Apartment 49, Bedroom	37.3m³	47 dB	PASS
10975S-34	5th Floor, Apartment 44, Living Room	54.9m³	5th Floor, Apartment 45, Bedroom	46.4m³	47 dB	PASS
10975S-35	4th Floor, Apartment 35 Studio	41.6m³	4th Floor, Apartment 36, Studio	39.2m³	42 dB	FAIL
10975S-36	4th Floor, Apartment 32, Studio	41.8m³	4th Floor, Apartment 33, Studio	41.1m³	49 dB	PASS
A 43dB or higher $D_{nT,w}+C_{tr}$ value is required to achieve a 'pass'						

BS EN ISO 140-4:1998 Standardised Level Difference

Revision No. 1

Field measurements of airborne sound insulation between rooms

Client: Floorscan Acoustics Ltd

Date of test: 12/04/2018

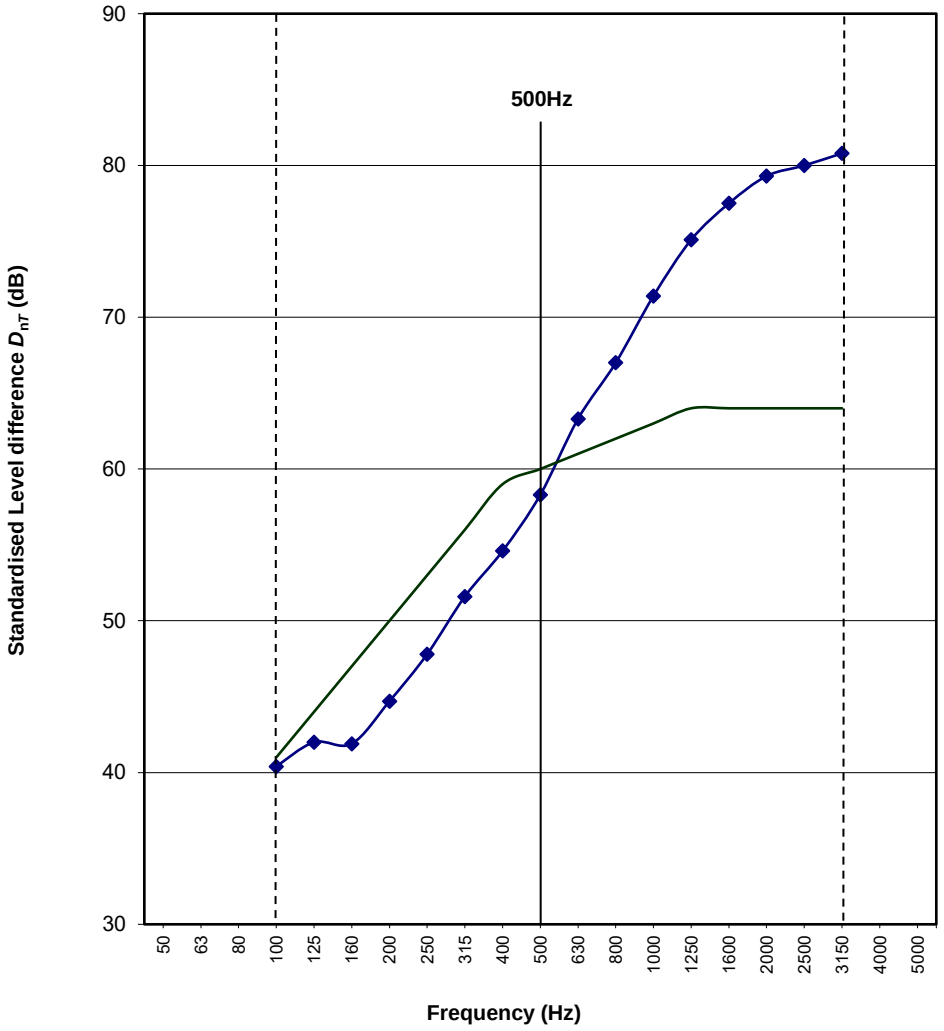
Description and identification of the building construction and test arrangement, direction of measurement:

Source Room:	4th Floor, Apartment 42, Studio	Source room volume:	44.3m³
Receiver room:	5th Floor, Apartment 54, Studio	Receiver room volume:	44.1m³
Direction of test:	Vertical	Area of common partition:	18.7m³
Floor Construction	Details unknown.		

Frequency (Hz)	D_{nT} (1/3 oct) dB
50	N/A
63	N/A
80	N/A
100	40.4
125	42.0
160	41.9
200	44.7
250	47.8
315	51.6
400	54.6
500	58.3
630	63.3
800	67.0
1000	≥71.4*
1250	≥75.1*
1600	≥77.5*
2000	≥79.3*
2500	≥80.0*
3150	≥80.8*
4000	N/A
5000	N/A

* Value is at the limit of measurment due to the influence of background noise

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



Rating according to ISO 717-1

$D_{nT,w}$ (C_{tr}) = 60 (-7) dB $D_{nT,w} + C_{tr}$ = 53 dB

Evaluation based on field measurement results obtained by an engineering method

Test report: 10975S-1

Name of test institute: Soundtesting.co.uk Ltd

Date of report: 21/04/2018

Signature: Ben Bielicki

Engineer: B. Bielicki, BSc Audio Technology, AMIOA

ISO 140-7:1998 Standardised Impact Sound Pressure Level

Revision No. 1

Field measurements of impact isolation of floors

Client: Floorscan Acoustics Ltd

Date of test: 12/04/2018

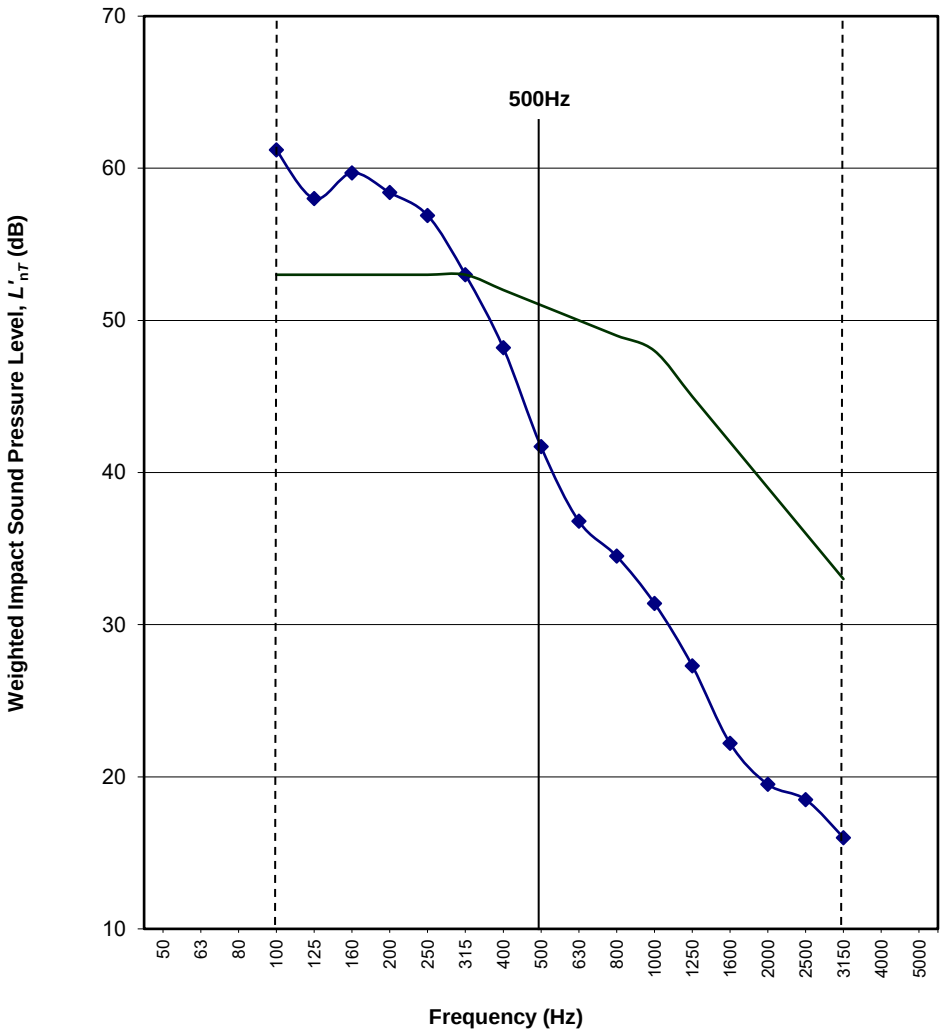
Description and identification of the building construction and test arrangement, direction of measurement:

Source Room:	5th Floor, Apartment 54, Studio	Source room volume:	44.1m³
Receiver room:	4th Floor, Apartment 42, Studio	Receiver room volume:	44.3m³
Direction of test:	Vertical	Area of common partition:	18.7m³
Floor Construction	Details unknown.		

Frequency (Hz)	L'_{nT} (1/3 oct) dB
50	N/A
63	N/A
80	N/A
100	61.2
125	58.0
160	59.7
200	58.4
250	56.9
315	53.0
400	48.2
500	41.7
630	36.8
800	34.5
1000	31.4
1250	27.3
1600	22.2
2000	≤19.5*
2500	≤18.5*
3150	≤16.0*
4000	N/A
5000	N/A

* Value is at the limit of measurment due to the influence of background noise

Frequency range according to the curve of reference values (ISO 717-2)



Rating according to ISO 717-2

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

Evaluation based on field measurement results obtained by an engineering method

Test report: 10975S-2

Name of test institute: Soundtesting.co.uk Ltd

Date of report: 21/04/2018

Signature: Ben Bielicki

Engineer: B. Bielicki, BSc Audio Technology, AMIOA

BS EN ISO 140-4:1998 Standardised Level Difference

Revision No. 1

Field measurements of airborne sound insulation between rooms

Client: Floorscan Acoustics Ltd

Date of test: 12/04/2018

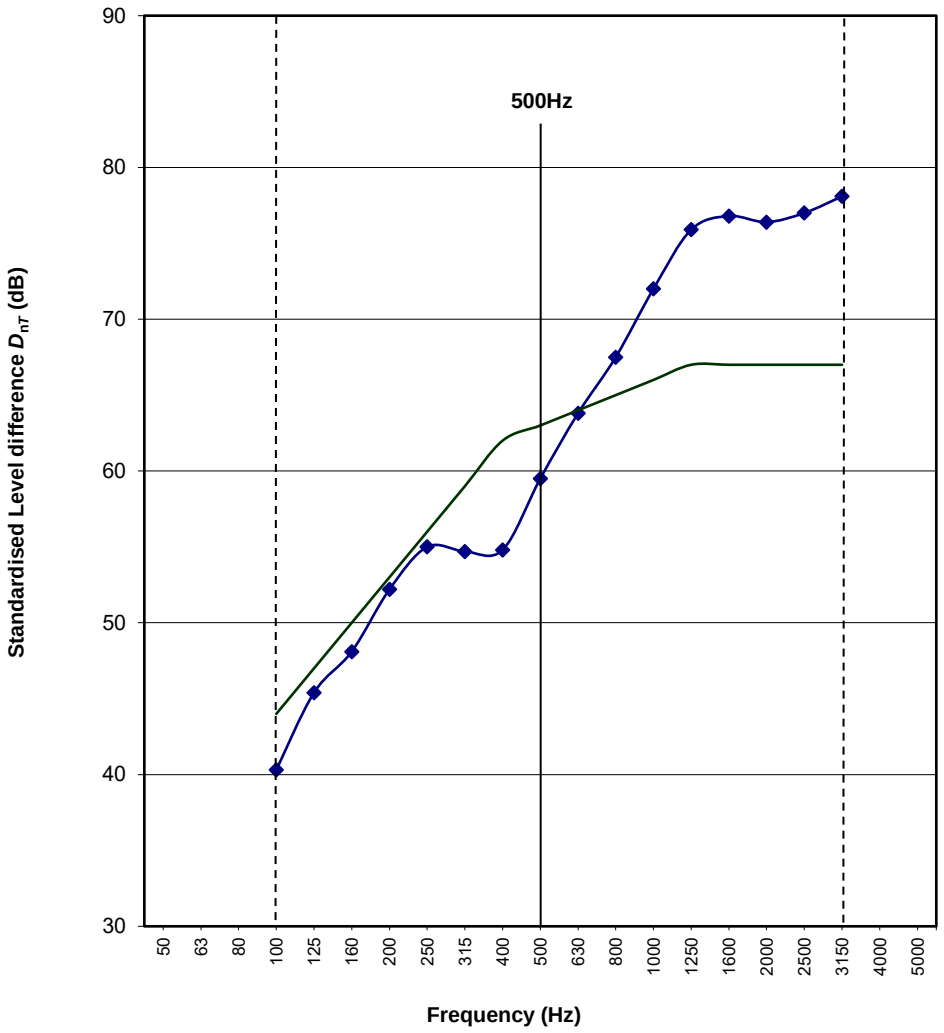
Description and identification of the building construction and test arrangement, direction of measurement:

Source Room:	5th Floor, Apartment 53, Studio	Source room volume:	44.8m³
Receiver room:	4th Floor, Apartment 41, Studio	Receiver room volume:	44.5m³
Direction of test:	Vertical	Area of common partition:	18.7m³
Floor Construction	Details unknown.		

Frequency (Hz)	D_{nT} (1/3 oct) dB
50	N/A
63	N/A
80	N/A
100	40.3
125	45.4
160	48.1
200	52.2
250	55.0
315	54.7
400	54.8
500	59.5
630	63.8
800	67.5
1000	≥72.0*
1250	≥75.9*
1600	≥76.8*
2000	≥76.4*
2500	≥77.0*
3150	≥78.1*
4000	N/A
5000	N/A

* Value is at the limit of measurment due to the influence of background noise

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



Rating according to ISO 717-1

$D_{nT,w}$ (C_{tr}) = 63 (-6) dB $D_{nT,w} + C_{tr}$ = 57 dB

Evaluation based on field measurement results obtained by an engineering method

Test report: 10975S-3

Name of test institute: Soundtesting.co.uk Ltd

Date of report: 21/04/2018

Signature: Ben Bielicki

Engineer: B. Bielicki, BSc Audio Technology, AMIOA

ISO 140-7:1998 Standardised Impact Sound Pressure Level

Revision No. 1

Field measurements of impact isolation of floors

Client: Floorscan Acoustics Ltd

Date of test: 12/04/2018

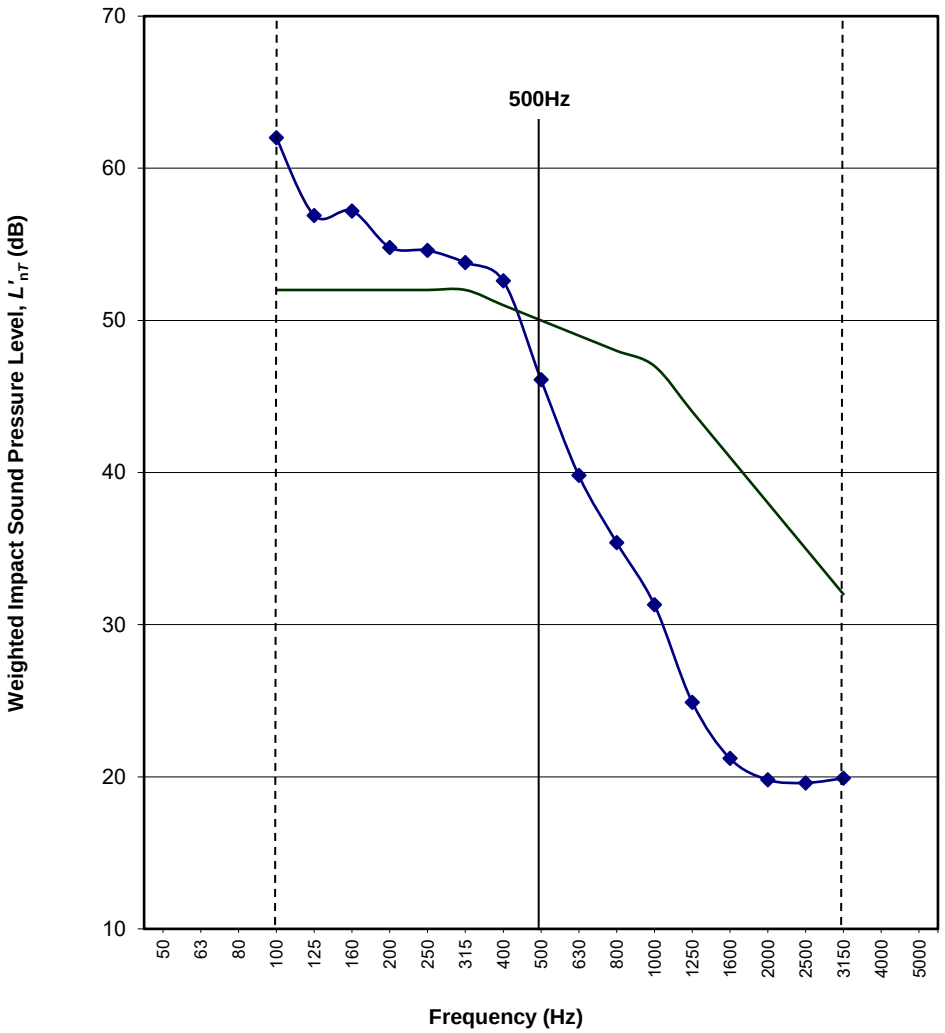
Description and identification of the building construction and test arrangement, direction of measurement:

Source Room:	5th Floor, Apartment 53, Studio	Source room volume:	44.8m³
Receiver room:	4th Floor, Apartment 41, Studio	Receiver room volume:	44.5m³
Direction of test:	Vertical	Area of common partition:	18.7m³
Floor Construction	Details unknown.		

Frequency (Hz)	L'_{nT} (1/3 oct) dB
50	N/A
63	N/A
80	N/A
100	62.0
125	56.9
160	57.2
200	54.8
250	54.6
315	53.8
400	52.6
500	46.1
630	39.8
800	35.4
1000	31.3
1250	24.9
1600	≤21.2*
2000	≤19.8*
2500	19.6
3150	≤19.9*
4000	N/A
5000	N/A

* Value is at the limit of measurment due to the influence of background noise

Frequency range according to the curve of reference values (ISO 717-2)



Rating according to ISO 717-2

$L'_{nT,w}$ = 50 dB

Evaluation based on field measurement results obtained by an engineering method

Test report: 10975S-4

Name of test institute: Soundtesting.co.uk Ltd

Date of report: 21/04/2018

Signature: Ben Bielicki

Engineer: B. Bielicki, BSc Audio Technology, AMIOA

BS EN ISO 140-4:1998 Standardised Level Difference

Revision No. 1

Field measurements of airborne sound insulation between rooms

Client: Floorscan Acoustics Ltd

Date of test: 12/04/2018

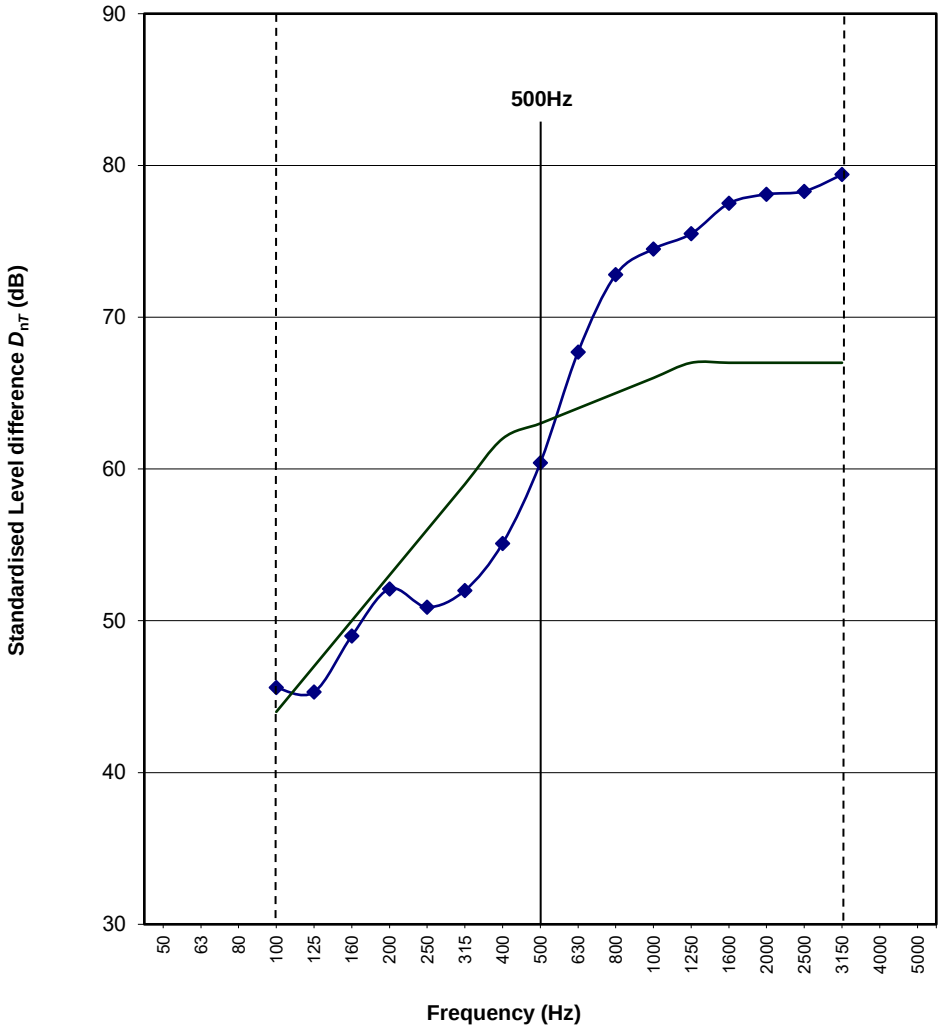
Description and identification of the building construction and test arrangement, direction of measurement:

Source Room:	2nd Floor, Apartment 14, Kitchen/Living Room/Dining Room	Source room volume:	59.5m³
Receiver room:	3rd Floor, Apartment 24, Kitchen/Living Room/Dining Room	Receiver room volume:	57.2m³
Direction of test:	Vertical	Area of common partition:	21.5m³
Floor Construction	Details unknown.		

Frequency (Hz)	D_{nT} (1/3 oct) dB
50	N/A
63	N/A
80	N/A
100	≥45.6*
125	45.3
160	49.0
200	52.1
250	50.9
315	52.0
400	55.1
500	60.4
630	67.7
800	≥72.8*
1000	≥74.5*
1250	≥75.5*
1600	≥77.5*
2000	≥78.1*
2500	≥78.3*
3150	≥79.4*
4000	N/A
5000	N/A

* Value is at the limit of measurment due to the influence of background noise

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



Rating according to ISO 717-1

$D_{nT,w}$ (C_{tr}) = 63 (-5) dB $D_{nT,w} + C_{tr}$ = 58 dB

Evaluation based on field measurement results obtained by an engineering method

Test report: 10975S-5

Name of test institute: Soundtesting.co.uk Ltd

Date of report: 21/04/2018

Signature: Ben Bielicki

Engineer: B. Bielicki, BSc Audio Technology, AMIOA

ISO 140-7:1998 Standardised Impact Sound Pressure Level

Revision No. 1

Field measurements of impact isolation of floors

Client: Floorscan Acoustics Ltd

Date of test: 12/04/2018

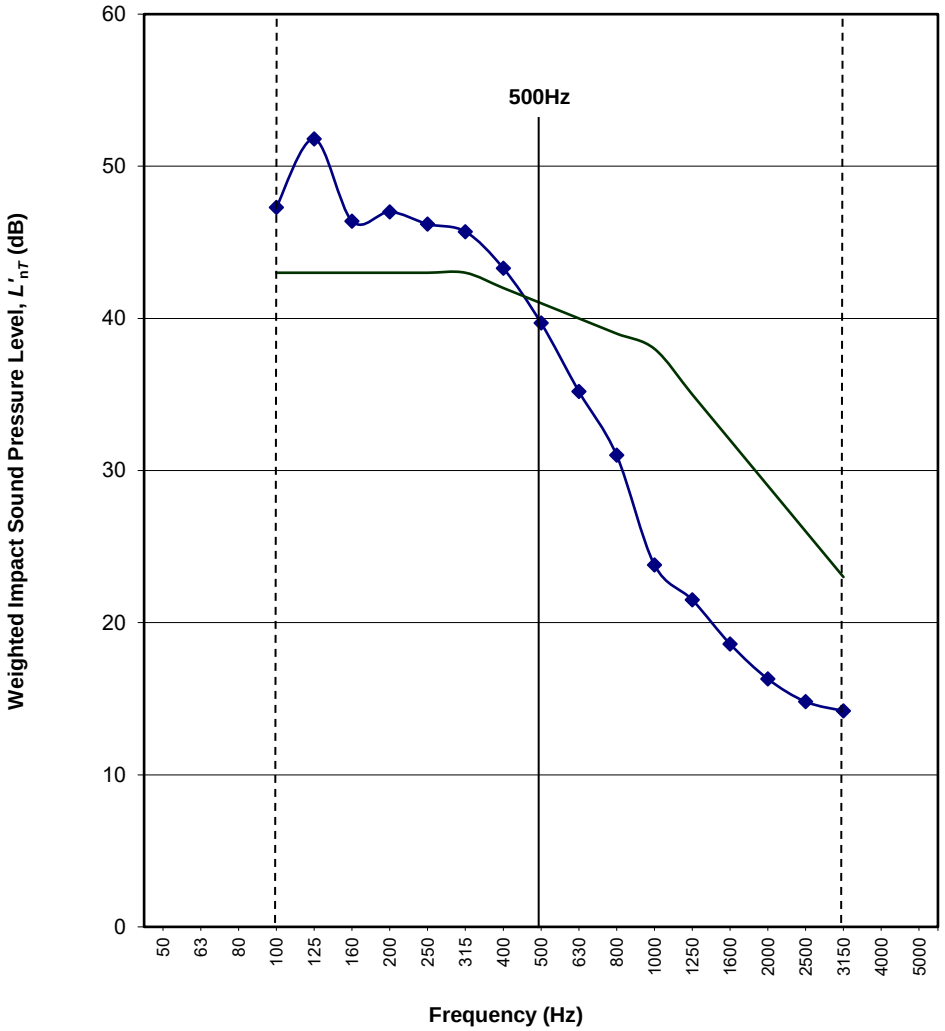
Description and identification of the building construction and test arrangement, direction of measurement:

Source Room:	3rd Floor, Apartment 24, Kitchen/Living Room/Dining Room	Source room volume:	57.2m³
Receiver room:	2nd Floor, Apartment 14, Kitchen/Living Room/Dining Room	Receiver room volume:	59.5m³
Direction of test:	Vertical	Area of common partition:	21.5m³
Floor Construction	Details unknown.		

Frequency (Hz)	L'_{nT} (1/3 oct) dB
50	N/A
63	N/A
80	N/A
100	47.3
125	51.8
160	46.4
200	47.0
250	46.2
315	45.7
400	43.3
500	39.7
630	35.2
800	31.0
1000	≤23.8*
1250	≤21.5*
1600	≤18.6*
2000	≤16.3*
2500	≤14.8*
3150	≤14.2*
4000	N/A
5000	N/A

* Value is at the limit of measurment due to the influence of background noise

Frequency range according to the curve of reference values (ISO 717-2)



Rating according to ISO 717-2

$L'_{nT,w}$ = 41 dB

Evaluation based on field measurement results obtained by an engineering method

Test report: 10975S-6

Name of test institute: Soundtesting.co.uk Ltd

Date of report: 21/04/2018

Signature: Ben Bielicki

Engineer: B. Bielicki, BSc Audio Technology, AMIOA

BS EN ISO 140-4:1998 Standardised Level Difference

Revision No. 1

Field measurements of airborne sound insulation between rooms

Client: Floorscan Acoustics Ltd

Date of test: 12/04/2018

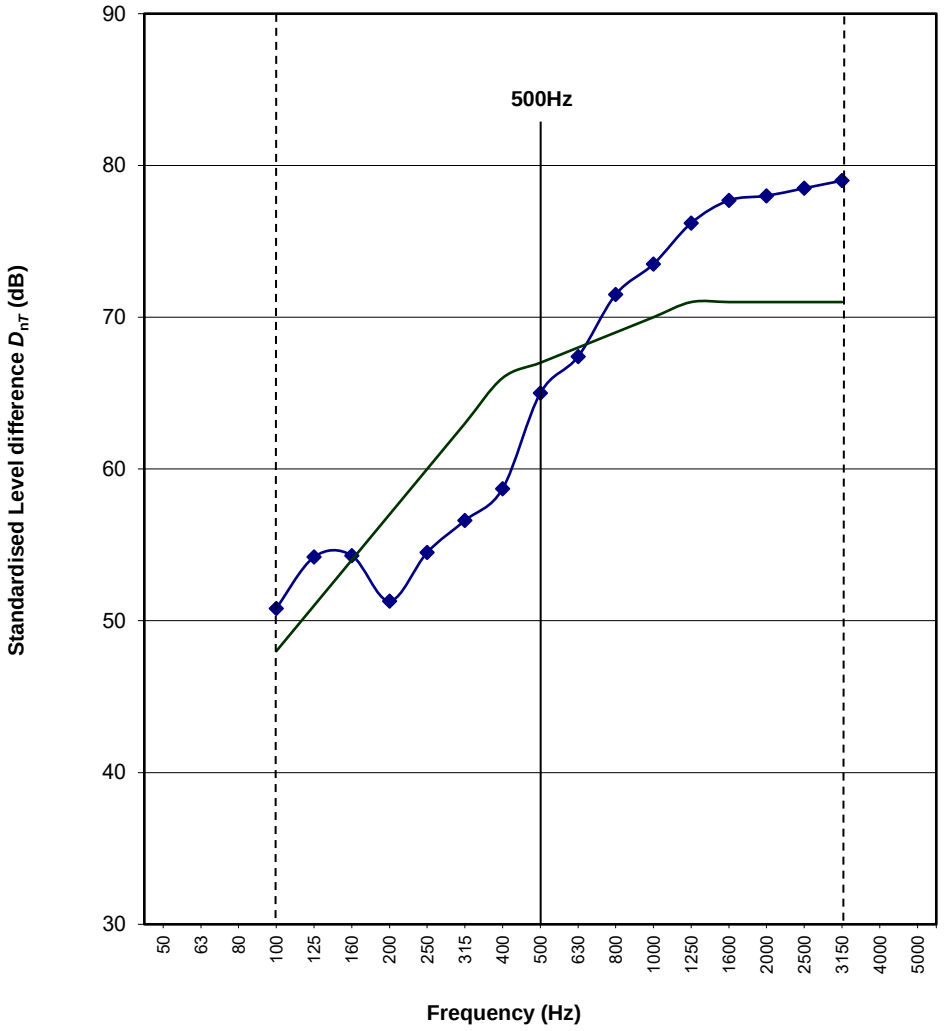
Description and identification of the building construction and test arrangement, direction of measurement:

Source Room:	2nd Floor, Apartment 13, Bedroom	Source room volume:	41.0m³
Receiver room:	3rd Floor, Apartment 23, Bedroom	Receiver room volume:	40.5m³
Direction of test:	Vertical	Area of common partition:	15.0m³
Floor Construction	Details unknown.		

Frequency (Hz)	D_{nT} (1/3 oct) dB
50	N/A
63	N/A
80	N/A
100	≥50.8*
125	54.2
160	54.3
200	51.3
250	54.5
315	56.6
400	58.7
500	≥65.0*
630	≥67.4*
800	≥71.5*
1000	≥73.5*
1250	≥76.2*
1600	≥77.7*
2000	≥78.0*
2500	≥78.5*
3150	≥79.0*
4000	N/A
5000	N/A

* Value is at the limit of measurment due to the influence of background noise

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



Rating according to ISO 717-1

$D_{nT,w}$ (C_{tr}) = 67 (-5) dB $D_{nT,w} + C_{tr}$ = 62 dB

Evaluation based on field measurement results obtained by an engineering method

Test report: 10975S-7

Name of test institute: Soundtesting.co.uk Ltd

Date of report: 21/04/2018

Signature: Ben Bielicki

Engineer: B. Bielicki, BSc Audio Technology, AMIOA

ISO 140-7:1998 Standardised Impact Sound Pressure Level

Revision No. 1

Field measurements of impact isolation of floors

Client: Floorscan Acoustics Ltd

Date of test: 12/04/2018

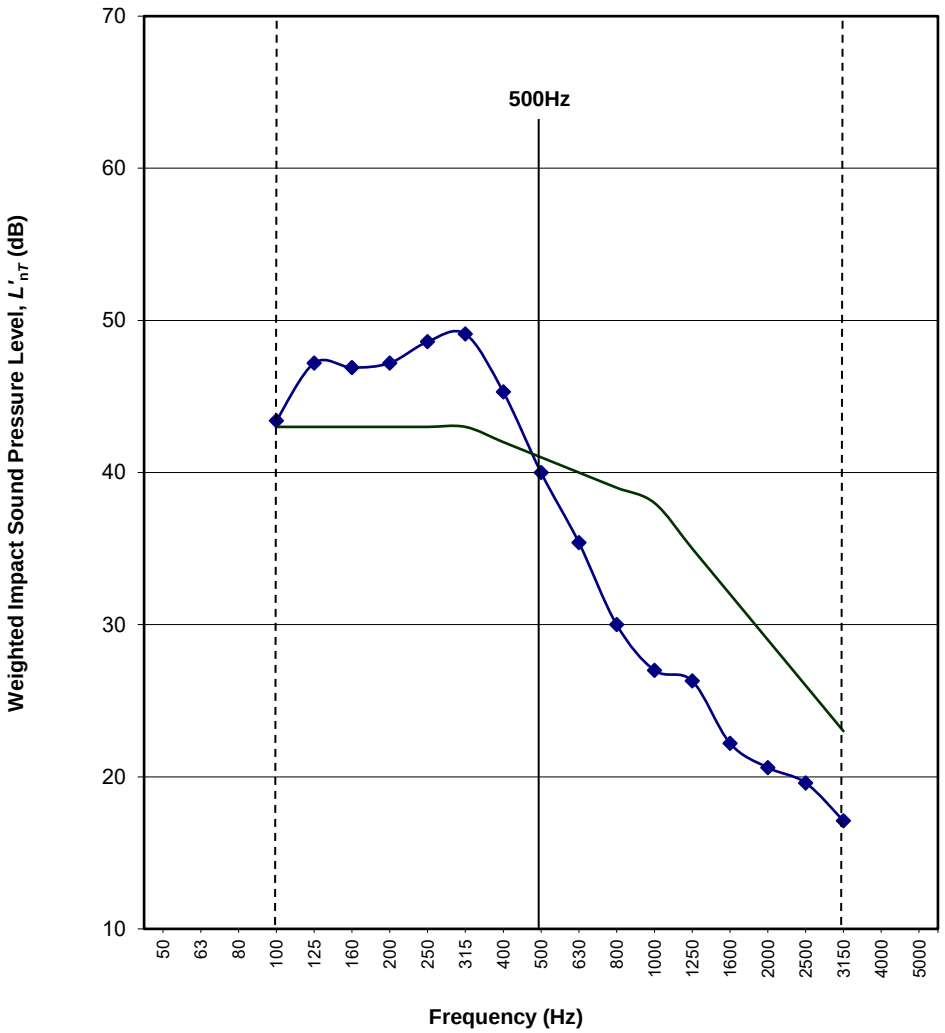
Description and identification of the building construction and test arrangement, direction of measurement:

Source Room:	3rd Floor, Apartment 23, Bedroom	Source room volume:	40.5m³
Receiver room:	2nd Floor, Apartment 13, Bedroom	Receiver room volume:	41.0m³
Direction of test:	Vertical	Area of common partition:	15.0m³
Floor Construction	Details unknown.		

Frequency (Hz)	L'_{nT} (1/3 oct) dB
50	N/A
63	N/A
80	N/A
100	≤43.4*
125	47.2
160	46.9
200	47.2
250	48.6
315	49.1
400	45.3
500	40.0
630	35.4
800	30.0
1000	≤27.0*
1250	26.3
1600	≤22.2*
2000	≤20.6*
2500	≤19.6*
3150	≤17.1*
4000	N/A
5000	N/A

* Value is at the limit of measurment due to the influence of background noise

Frequency range according to the curve of reference values (ISO 717-2)



Rating according to ISO 717-2

$L'_{nT,w}$ = 41 dB

Evaluation based on field measurement results obtained by an engineering method

Test report: 10975S-8

Name of test institute: Soundtesting.co.uk Ltd

Date of report: 21/04/2018

Signature: Ben Bielicki

Engineer: B. Bielicki, BSc Audio Technology, AMIOA

BS EN ISO 140-4:1998 Standardised Level Difference

Revision No. 1

Field measurements of airborne sound insulation between rooms

Client: Floorscan Acoustics Ltd

Date of test: 16/04/2018

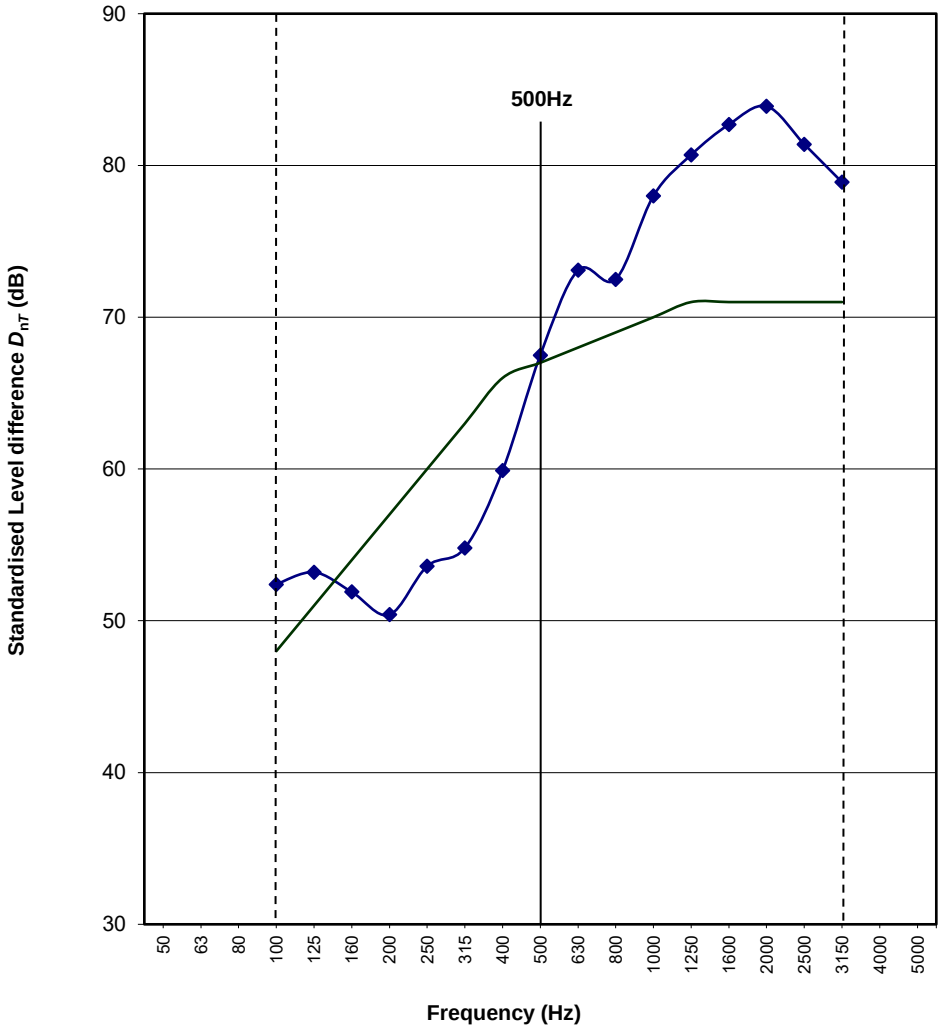
Description and identification of the building construction and test arrangement, direction of measurement:

Source Room:	3rd Floor, Apartment 25, Kitchen	Source room volume:	59.7m³
Receiver room:	2nd Floor, Apartment 15, Kitchen	Receiver room volume:	59.6m³
Direction of test:	Vertical	Area of common partition:	23.1m³
Floor Construction	Details unknown.		

Frequency (Hz)	D_{nT} (1/3 oct) dB
50	N/A
63	N/A
80	N/A
100	52.4
125	53.2
160	51.9
200	50.4
250	53.6
315	54.8
400	59.9
500	67.5
630	≥73.1*
800	≥72.5*
1000	≥78.0*
1250	≥80.7*
1600	≥82.7*
2000	≥83.9*
2500	≥81.4*
3150	≥78.9*
4000	N/A
5000	N/A

* Value is at the limit of measurment due to the influence of background noise

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



Rating according to ISO 717-1

$D_{nT,w}$ (C_{tr}) = 67 (-6) dB $D_{nT,w} + C_{tr}$ = 61 dB

Evaluation based on field measurement results obtained by an engineering method

Test report: 10975S-9

Name of test institute: Soundtesting.co.uk Ltd

Date of report: 21/04/2018

Signature: Ben Bielicki

Engineer: B. Bielicki, BSc Audio Technology, AMIOA

ISO 140-7:1998 Standardised Impact Sound Pressure Level

Revision No. 1

Field measurements of impact isolation of floors

Client: Floorscan Acoustics Ltd

Date of test: 16/04/2018

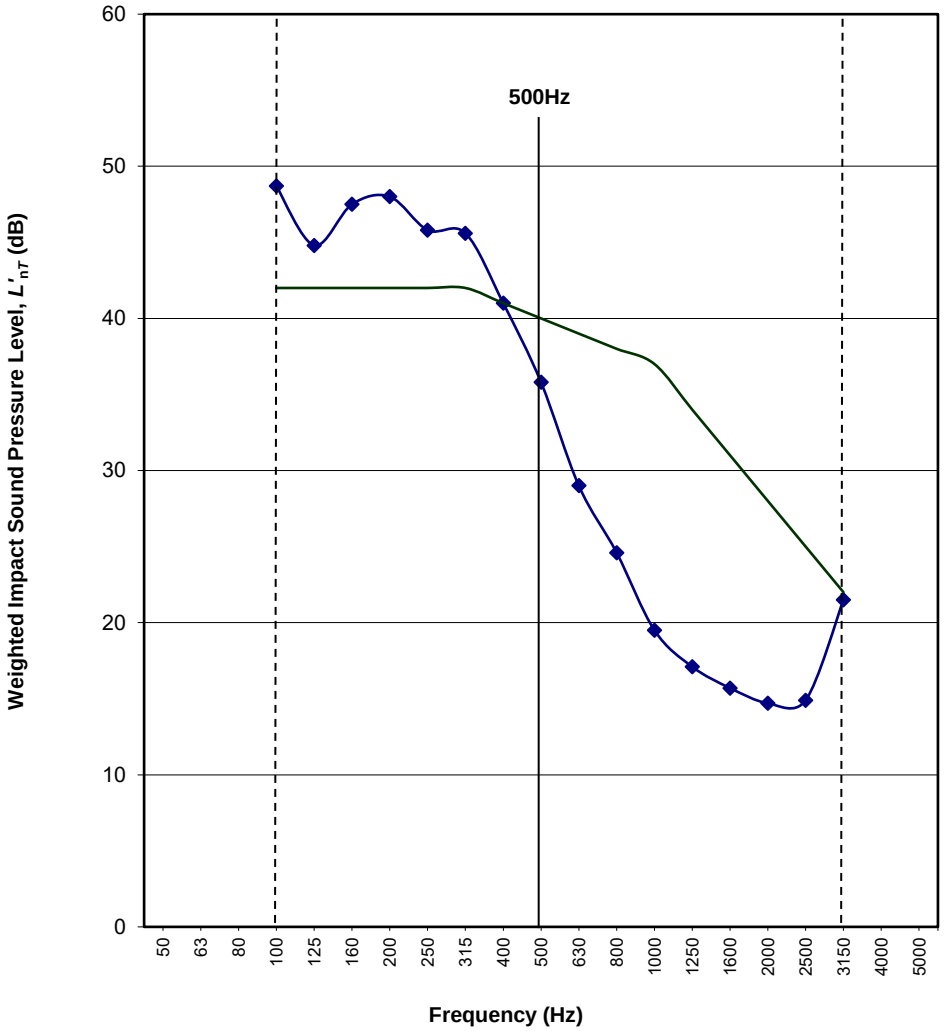
Description and identification of the building construction and test arrangement, direction of measurement:

Source Room:	3rd Floor, Apartment 25, Kitchen	Source room volume:	59.7m³
Receiver room:	2nd Floor, Apartment 15, Kitchen	Receiver room volume:	59.6m³
Direction of test:	Vertical	Area of common partition:	23.1m³
Floor Construction	Details unknown.		

Frequency (Hz)	L'_{nT} (1/3 oct) dB
50	N/A
63	N/A
80	N/A
100	48.7
125	44.8
160	47.5
200	48.0
250	45.8
315	45.6
400	41.0
500	35.8
630	29.0
800	24.6
1000	19.5
1250	≤17.1*
1600	15.7
2000	14.7
2500	14.9
3150	21.5
4000	N/A
5000	N/A

* Value is at the limit of measurment due to the influence of background noise

Frequency range according to the curve of reference values (ISO 717-2)



Rating according to ISO 717-2

$L'_{nT,w}$ = 40 dB

Evaluation based on field measurement results obtained by an engineering method

Test report: 10975S-10

Name of test institute: Soundtesting.co.uk Ltd

Date of report: 21/04/2018

Signature: Ben Bielicki

Engineer: B. Bielicki, BSc Audio Technology, AMIOA

BS EN ISO 140-4:1998 Standardised Level Difference

Revision No. 1

Field measurements of airborne sound insulation between rooms

Client: Floorscan Acoustics Ltd

Date of test: 16/04/2018

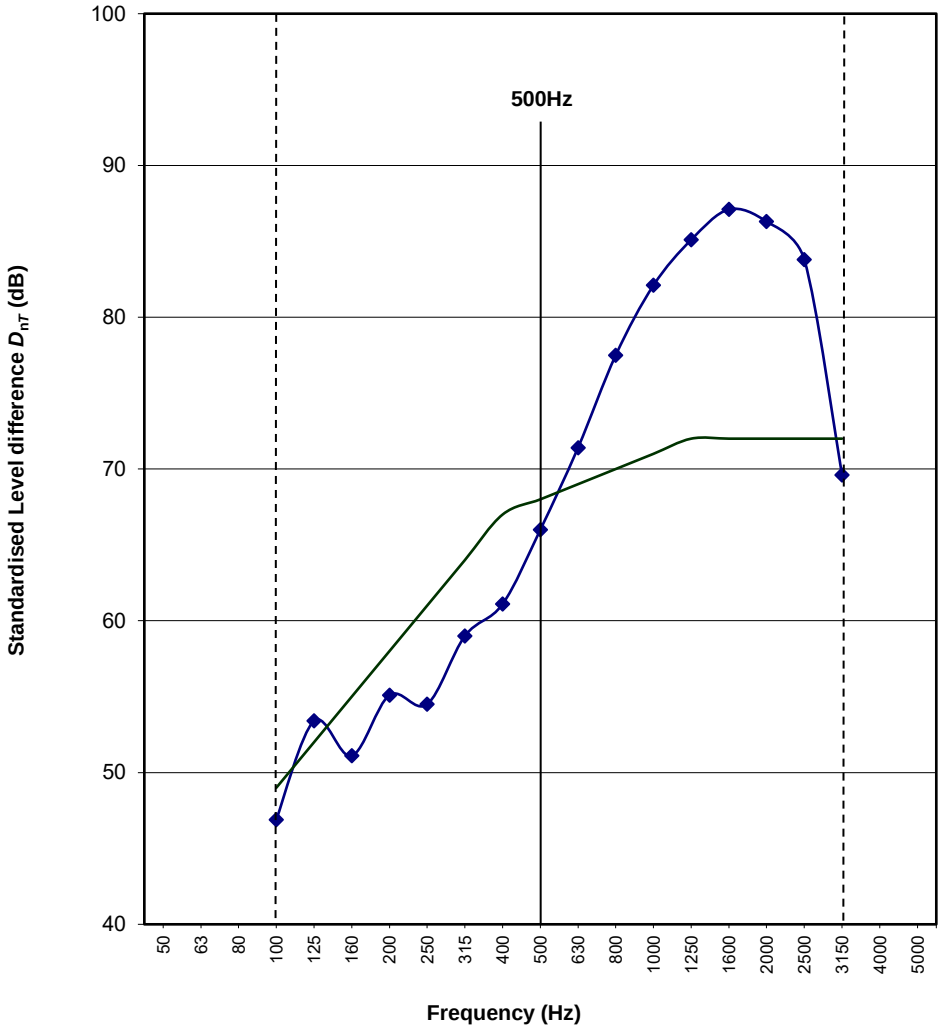
Description and identification of the building construction and test arrangement, direction of measurement:

Source Room:	3rd Floor, Apartment 25, Bedroom 2	Source room volume:	32.6m³
Receiver room:	2nd Floor, Apartment 15, Bedroom 2	Receiver room volume:	30.8m³
Direction of test:	Vertical	Area of common partition:	12.8m³
Floor Construction	Details unknown.		

Frequency (Hz)	D_{nT} (1/3 oct) dB
50	N/A
63	N/A
80	N/A
100	46.9
125	53.4
160	51.1
200	55.1
250	54.5
315	59.0
400	61.1
500	66.0
630	71.4
800	≥77.5*
1000	≥82.1*
1250	≥85.1*
1600	≥87.1*
2000	≥86.3*
2500	≥83.8*
3150	69.6
4000	N/A
5000	N/A

* Value is at the limit of measurment due to the influence of background noise

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



Rating according to ISO 717-1

$D_{nT,w}$ (C_{tr}) = 68 (-6) dB $D_{nT,w} + C_{tr}$ = 62 dB

Evaluation based on field measurement results obtained by an engineering method

Test report: 10975S-11

Name of test institute: Soundtesting.co.uk Ltd

Date of report: 21/04/2018

Signature: Ben Bielicki Engineer: B. Bielicki, BSc Audio Technology, AMIOA

ISO 140-7:1998 Standardised Impact Sound Pressure Level

Revision No. 1

Field measurements of impact isolation of floors

Client: Floorscan Acoustics Ltd

Date of test: 16/04/2018

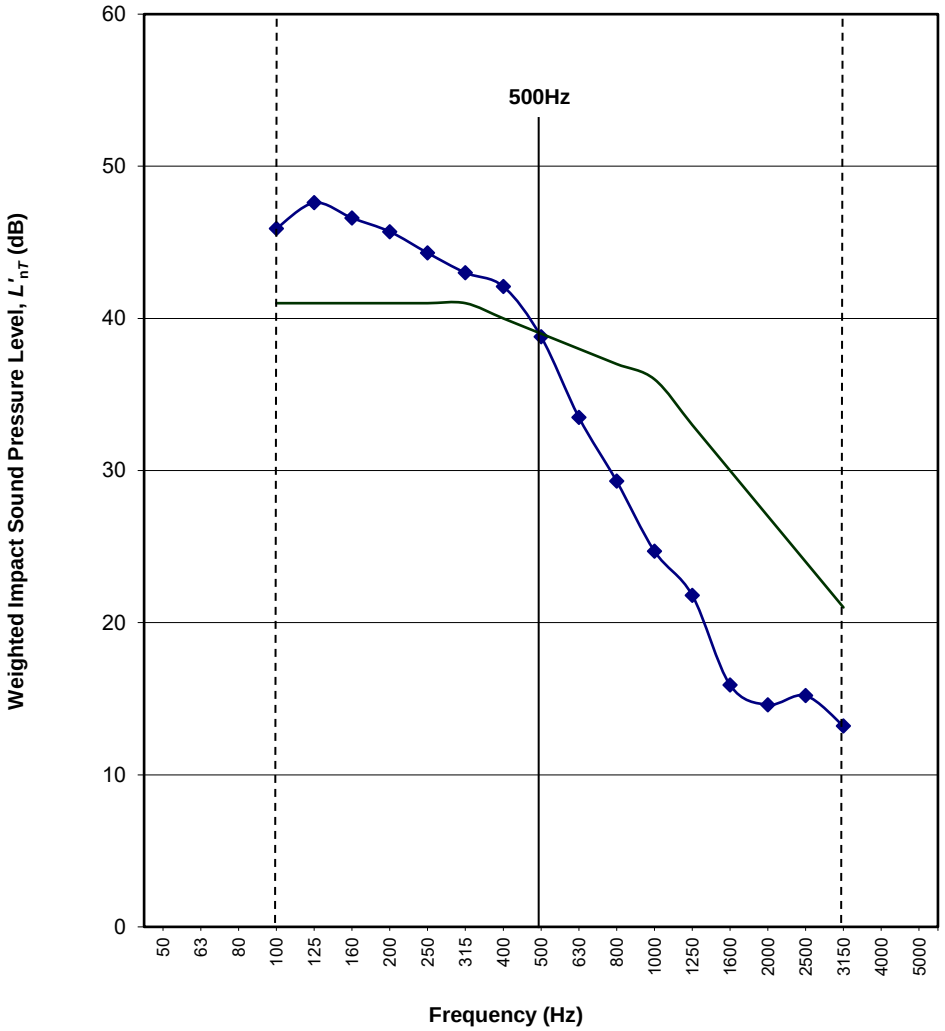
Description and identification of the building construction and test arrangement, direction of measurement:

Source Room:	3rd Floor, Apartment 25, Bedroom 2	Source room volume:	32.6m³
Receiver room:	2nd Floor, Apartment 15, Bedroom 2	Receiver room volume:	30.8m³
Direction of test:	Vertical	Area of common partition:	12.8m³
Floor Construction	Details unknown.		

Frequency (Hz)	L'_{nT} (1/3 oct) dB
50	N/A
63	N/A
80	N/A
100	45.9
125	47.6
160	46.6
200	45.7
250	44.3
315	43.0
400	42.1
500	38.8
630	33.5
800	29.3
1000	24.7
1250	21.8
1600	≤15.9*
2000	≤14.6*
2500	≤15.2*
3150	≤13.2*
4000	N/A
5000	N/A

* Value is at the limit of measurment due to the influence of background noise

Frequency range according to the curve of reference values (ISO 717-2)



Rating according to ISO 717-2

$L'_{nT,w}$ = 39 dB

Evaluation based on field measurement results obtained by an engineering method

Test report: 10975S-12

Name of test institute: Soundtesting.co.uk Ltd

Date of report: 21/04/2018

Signature: Ben Bielicki

Engineer: B. Bielicki, BSc Audio Technology, AMIOA

BS EN ISO 140-4:1998 Standardised Level Difference

Revision No. 1

Field measurements of airborne sound insulation between rooms

Client: Floorscan Acoustics Ltd

Date of test: 16/04/2018

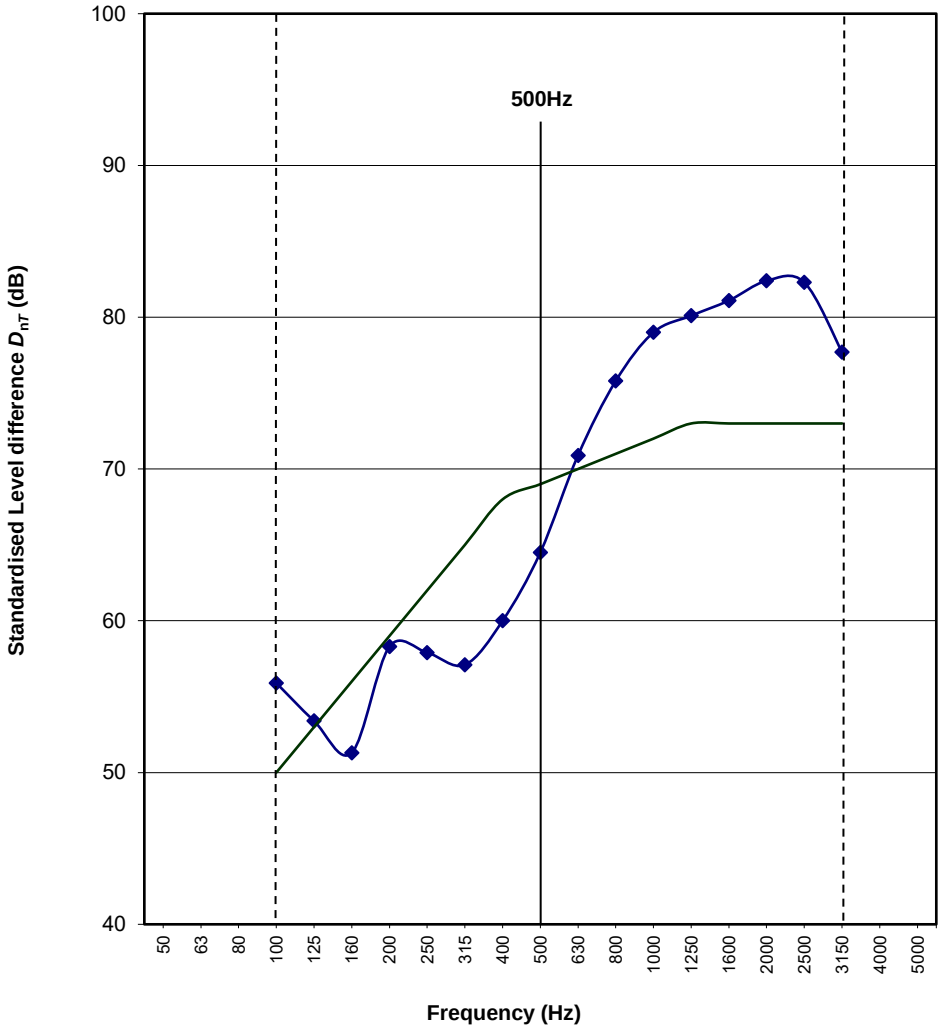
Description and identification of the building construction and test arrangement, direction of measurement:

Source Room:	3rd Floor, Apartment 25, Bedroom 1	Source room volume:	31.8m³
Receiver room:	3nd Floor, Apartment 15, Bedroom 1	Receiver room volume:	30.6m³
Direction of test:	Vertical	Area of common partition:	12.1m³
Floor Construction	Details unknown.		

Frequency (Hz)	D_{nT} (1/3 oct) dB
50	N/A
63	N/A
80	N/A
100	55.9
125	53.4
160	51.3
200	58.3
250	57.9
315	57.1
400	60.0
500	64.5
630	70.9
800	75.8
1000	79.0
1250	80.1
1600	81.1
2000	≥82.4*
2500	≥82.3*
3150	≥77.7*
4000	N/A
5000	N/A

* Value is at the limit of measurment due to the influence of background noise

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



Rating according to ISO 717-1

$D_{nT,w}$ (C_{tr}) = 69 (-5) dB $D_{nT,w} + C_{tr}$ = 64 dB

Evaluation based on field measurement results obtained by an engineering method

Test report: 10975S-13

Name of test institute: Soundtesting.co.uk Ltd

Date of report: 21/04/2018

Signature: Ben Bielicki

Engineer: B. Bielicki, BSc Audio Technology, AMIOA

ISO 140-7:1998 Standardised Impact Sound Pressure Level

Revision No. 1

Field measurements of impact isolation of floors

Client: Floorscan Acoustics Ltd

Date of test: 16/04/2018

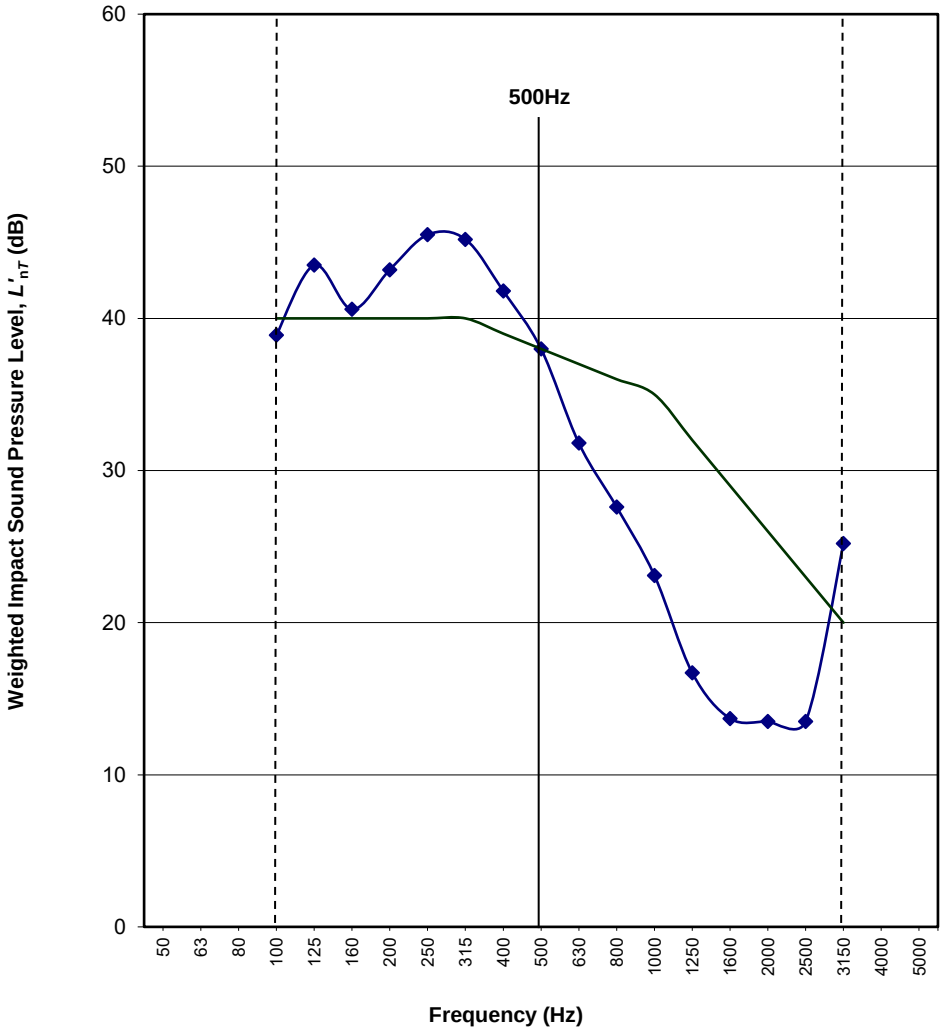
Description and identification of the building construction and test arrangement, direction of measurement:

Source Room:	3rd Floor, Apartment 25, Bedroom 1	Source room volume:	31.8m³
Receiver room:	3nd Floor, Apartment 15, Bedroom 1	Receiver room volume:	30.6m³
Direction of test:	Vertical	Area of common partition:	12.1m³
Floor Construction	Details unknown.		

Frequency (Hz)	L'_{nT} (1/3 oct) dB
50	N/A
63	N/A
80	N/A
100	38.9
125	43.5
160	40.6
200	43.2
250	45.5
315	45.2
400	41.8
500	38.0
630	31.8
800	27.6
1000	23.1
1250	16.7
1600	≤13.7*
2000	≤13.5*
2500	≤13.5*
3150	≤25.2*
4000	N/A
5000	N/A

* Value is at the limit of measurment due to the influence of background noise

Frequency range according to the curve of reference values (ISO 717-2)



Rating according to ISO 717-2

$L'_{nT,w}$ = 38 dB

Evaluation based on field measurement results obtained by an engineering method

Test report: 10975S-14

Name of test institute: Soundtesting.co.uk Ltd

Date of report: 21/04/2018

Signature: Ben Bielicki

Engineer: B. Bielicki, BSc Audio Technology, AMIOA

BS EN ISO 140-4:1998 Standardised Level Difference

Revision No. 1

Field measurements of airborne sound insulation between rooms

Client: Floorscan Acoustics Ltd

Date of test: 16/04/2018

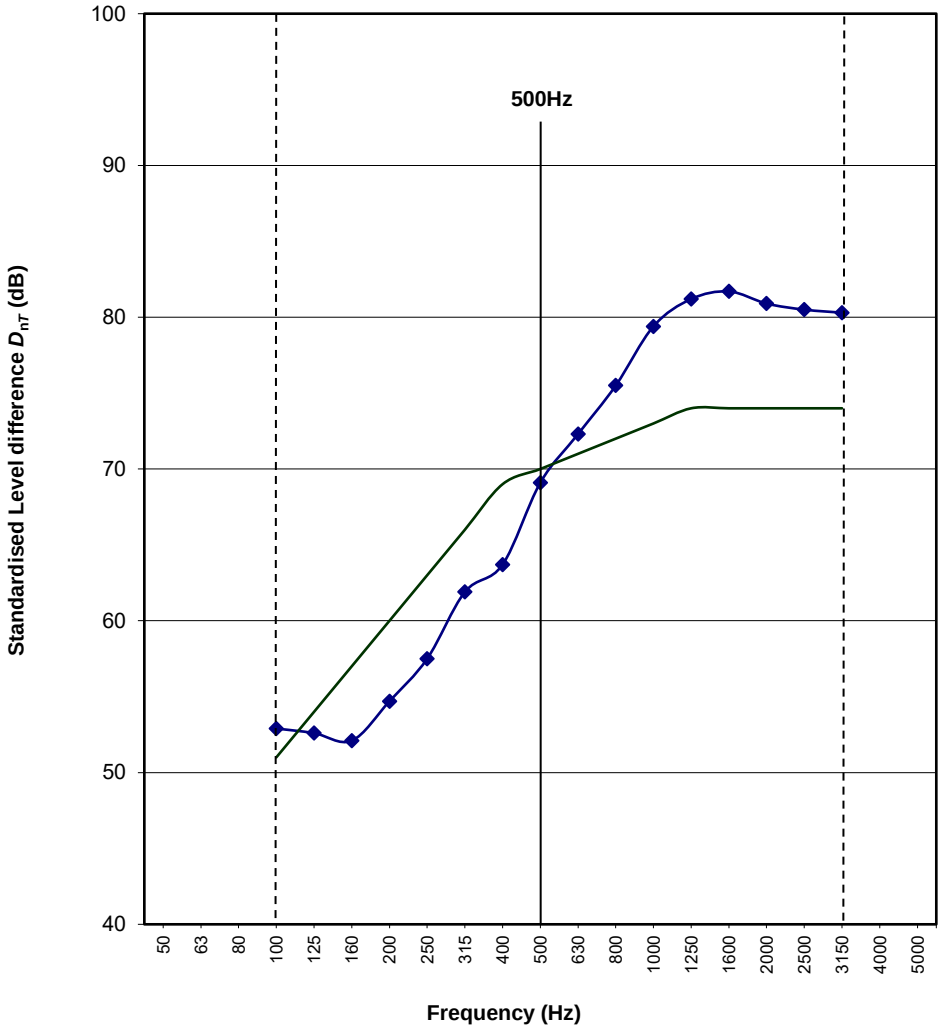
Description and identification of the building construction and test arrangement, direction of measurement:

Source Room:	3rd Floor, Apartment 24, Bedroom 2	Source room volume:	23.6m³
Receiver room:	2nd Floor, Apartment 14, Bedroom 2	Receiver room volume:	14.2m³
Direction of test:	Vertical	Area of common partition:	9.9m³
Floor Construction	Details unknown.		

Frequency (Hz)	D_{nT} (1/3 oct) dB
50	N/A
63	N/A
80	N/A
100	52.9
125	52.6
160	52.1
200	54.7
250	57.5
315	61.9
400	63.7
500	69.1
630	72.3
800	75.5
1000	≥79.4*
1250	≥81.2*
1600	≥81.7*
2000	≥80.9*
2500	≥80.5*
3150	80.3
4000	N/A
5000	N/A

* Value is at the limit of measurment due to the influence of background noise

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



Rating according to ISO 717-1

$D_{nT,w}$ (C_{tr}) = 70 (-6) dB $D_{nT,w} + C_{tr}$ = 64 dB

Evaluation based on field measurement results obtained by an engineering method

Test report: 10975S-15

Name of test institute: Soundtesting.co.uk Ltd

Date of report: 21/04/2018

Signature: Ben Bielicki Engineer: B. Bielicki, BSc Audio Technology, AMIOA

ISO 140-7:1998 Standardised Impact Sound Pressure Level

Revision No. 1

Field measurements of impact isolation of floors

Client: Floorscan Acoustics Ltd

Date of test: 16/04/2018

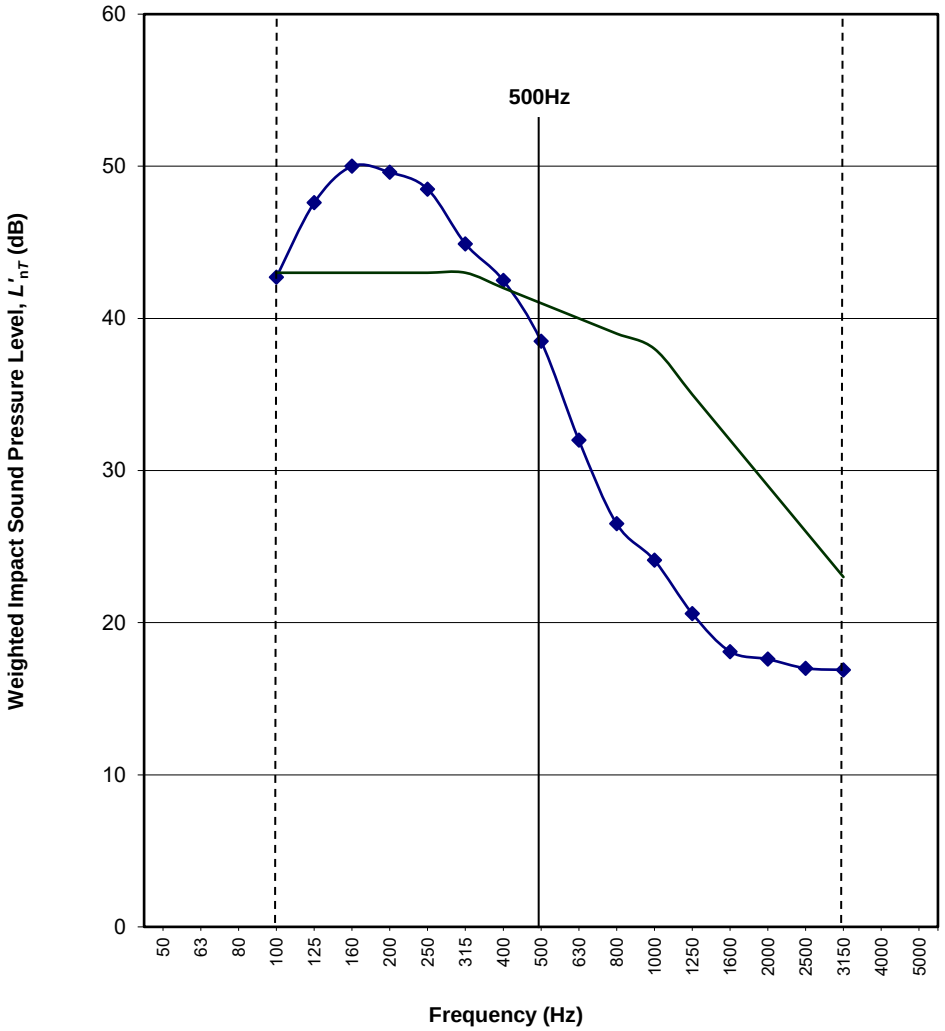
Description and identification of the building construction and test arrangement, direction of measurement:

Source Room:	3rd Floor, Apartment 24, Bedroom 2	Source room volume:	23.6m³
Receiver room:	2nd Floor, Apartment 14, Bedroom 2	Receiver room volume:	14.2m³
Direction of test:	Vertical	Area of common partition:	9.9m³
Floor Construction	Details unknown.		

Frequency (Hz)	L'_{nT} (1/3 oct) dB
50	N/A
63	N/A
80	N/A
100	42.7
125	47.6
160	50.0
200	49.6
250	48.5
315	44.9
400	42.5
500	38.5
630	32.0
800	26.5
1000	≤24.1*
1250	≤20.6*
1600	≤18.1*
2000	≤17.6*
2500	≤17.0*
3150	≤16.9*
4000	N/A
5000	N/A

* Value is at the limit of measurment due to the influence of background noise

Frequency range according to the curve of reference values (ISO 717-2)



Rating according to ISO 717-2

$L'_{nT,w}$ = 41 dB

Evaluation based on field measurement results obtained by an engineering method

Test report: 10975S-16

Name of test institute: Soundtesting.co.uk Ltd

Date of report: 21/04/2018

Signature: Ben Bielicki

Engineer: B. Bielicki, BSc Audio Technology, AMIOA

BS EN ISO 140-4:1998 Standardised Level Difference

Revision No. 1

Field measurements of airborne sound insulation between rooms

Client: Floorscan Acoustics Ltd

Date of test: 17/04/2018

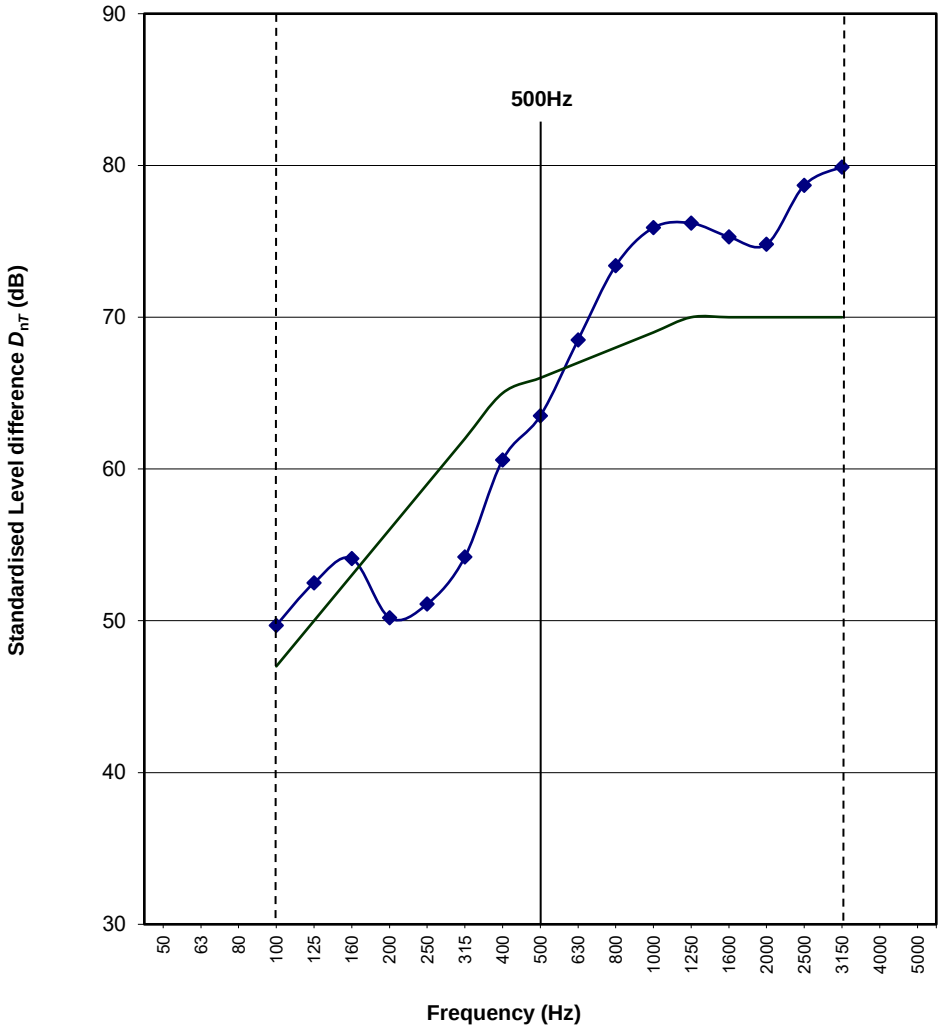
Description and identification of the building construction and test arrangement, direction of measurement:

Source Room:	4th Floor, Apartment 36, Studio	Source room volume:	39.2m³
Receiver room:	5th Floor, Apartment 49, Bedroom	Receiver room volume:	37.3m³
Direction of test:	Vertical	Area of common partition:	17.0m³
Floor Construction	Details unknown.		

Frequency (Hz)	D_{nT} (1/3 oct) dB
50	N/A
63	N/A
80	N/A
100	49.7
125	52.5
160	54.1
200	50.2
250	51.1
315	54.2
400	60.6
500	63.5
630	68.5
800	73.4
1000	≥75.9*
1250	≥76.2*
1600	≥75.3*
2000	≥74.8*
2500	≥78.7*
3150	≥79.9*
4000	N/A
5000	N/A

* Value is at the limit of measurment due to the influence of background noise

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



Rating according to ISO 717-1

$D_{nT,w}$ (C_{tr}) = 66 (-6) dB $D_{nT,w} + C_{tr}$ = 60 dB

Evaluation based on field measurement results obtained by an engineering method

Test report: 10975S-17

Name of test institute: Soundtesting.co.uk Ltd

Date of report: 21/04/2018

Signature: Ben Bielicki

Engineer: B. Bielicki, BSc Audio Technology, AMIOA

ISO 140-7:1998 Standardised Impact Sound Pressure Level

Revision No. 1

Field measurements of impact isolation of floors

Client: Floorscan Acoustics Ltd

Date of test: 17/04/2018

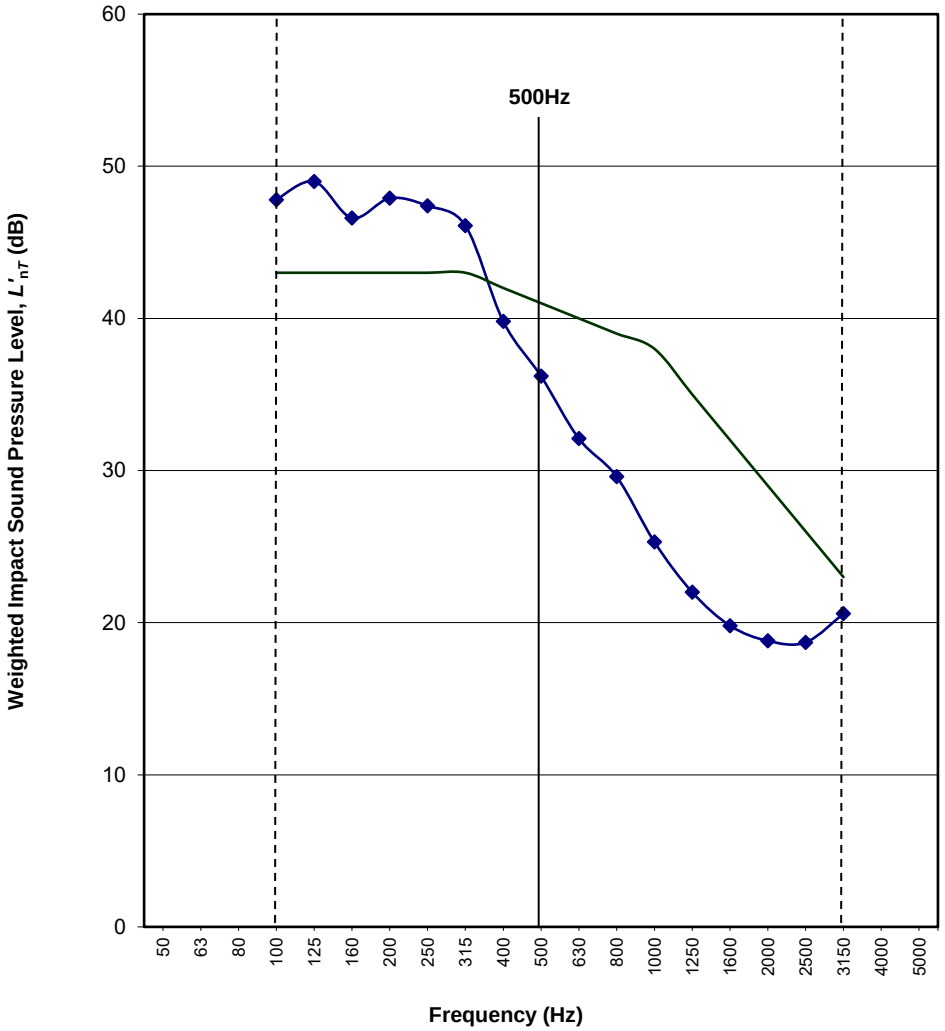
Description and identification of the building construction and test arrangement, direction of measurement:

Source Room:	5th Floor, Apartment 49, Bedroom	Source room volume:	37.3m³
Receiver room:	4th Floor, Apartment 36, Studio	Receiver room volume:	39.2m³
Direction of test:	Vertical	Area of common partition:	17.0m³
Floor Construction	Details unknown.		

Frequency (Hz)	L'_{nT} (1/3 oct) dB
50	N/A
63	N/A
80	N/A
100	47.8
125	49.0
160	46.6
200	47.9
250	47.4
315	46.1
400	39.8
500	36.2
630	32.1
800	29.6
1000	25.3
1250	≤22.0*
1600	≤19.8*
2000	≤18.8*
2500	≤18.7*
3150	≤20.6*
4000	N/A
5000	N/A

* Value is at the limit of measurment due to the influence of background noise

Frequency range according to the curve of reference values (ISO 717-2)



Rating according to ISO 717-2

$L'_{nT,w}$ = 41 dB

Evaluation based on field measurement results obtained by an engineering method

Test report: 10975S-18

Name of test institute: Soundtesting.co.uk Ltd

Date of report: 21/04/2018

Signature: Ben Bielicki

Engineer: B. Bielicki, BSc Audio Technology, AMIOA

BS EN ISO 140-4:1998 Standardised Level Difference

Revision No. 1

Field measurements of airborne sound insulation between rooms

Client: Floorscan Acoustics Ltd

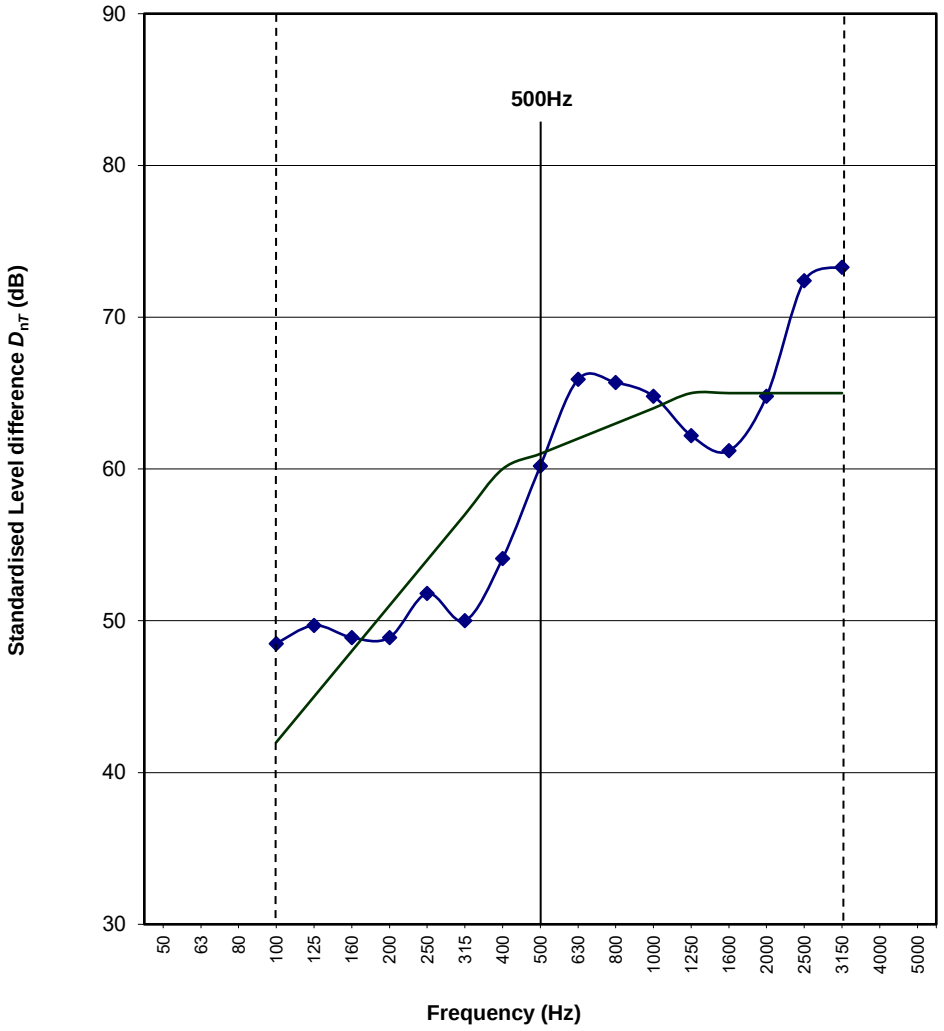
Date of test: 17/04/2018

Description and identification of the building construction and test arrangement, direction of measurement:

Source Room:	5th Floor, Apartment 48, Studio	Source room volume:	47.2m³
Receiver room:	4th Floor, Apartment 35, Studio	Receiver room volume:	41.6m³
Direction of test:	Vertical	Area of common partition:	19.6m³
Floor Construction	Details unknown.		

Frequency (Hz)	D_{nT} (1/3 oct) dB
50	N/A
63	N/A
80	N/A
100	48.5
125	49.7
160	48.9
200	48.9
250	51.8
315	50.0
400	54.1
500	60.2
630	65.9
800	65.7
1000	64.8
1250	62.2
1600	61.2
2000	64.8
2500	72.4
3150	73.3
4000	N/A
5000	N/A

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



Rating according to ISO 717-1

$D_{nT,w}$ (C_{tr}) = 61 (-4) dB $D_{nT,w} + C_{tr}$ = 57 dB

Evaluation based on field measurement results obtained by an engineering method

Test report: 10975S-19

Name of test institute: Soundtesting.co.uk Ltd

Date of report: 21/04/2018

Signature: Ben Bielicki

Engineer: B. Bielicki, BSc Audio Technology, AMIOA

ISO 140-7:1998 Standardised Impact Sound Pressure Level

Revision No. 1

Field measurements of impact isolation of floors

Client: Floorscan Acoustics Ltd

Date of test: 17/04/2018

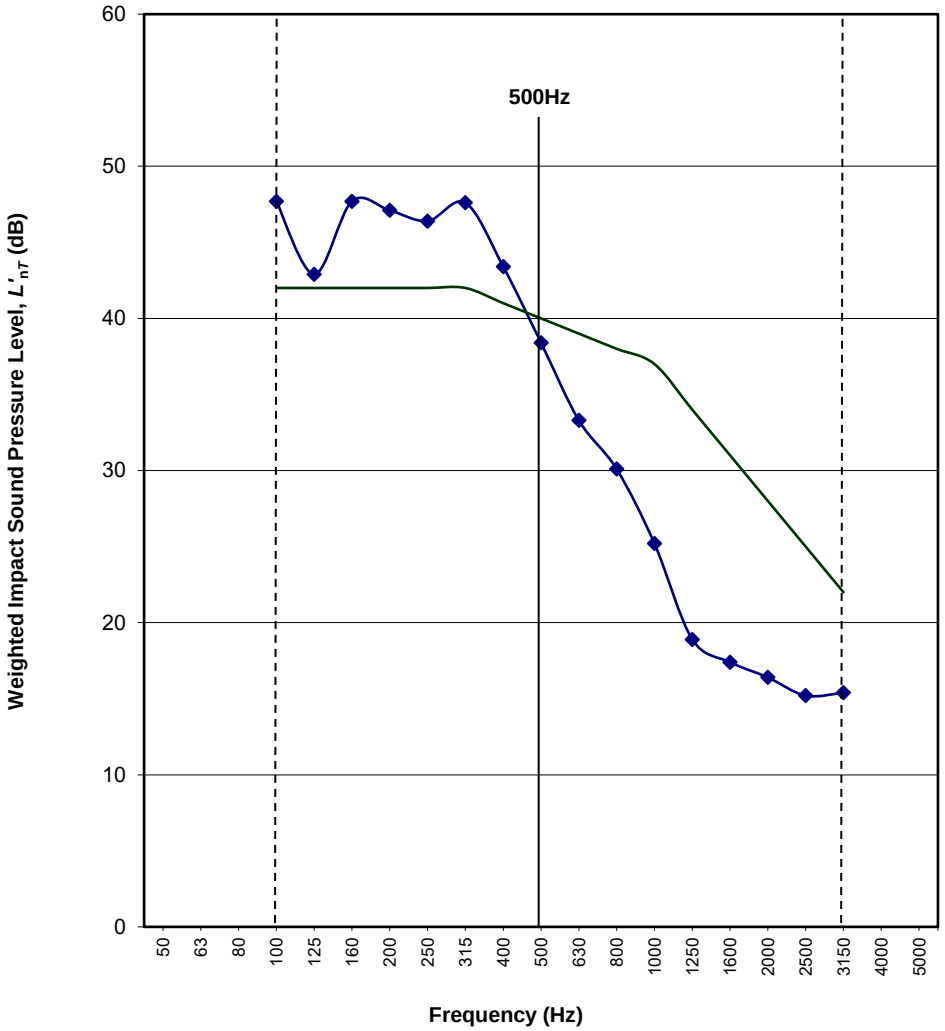
Description and identification of the building construction and test arrangement, direction of measurement:

Source Room:	5th Floor, Apartment 48, Studio	Source room volume:	47.2m³
Receiver room:	4th Floor, Apartment 35, Studio	Receiver room volume:	41.6m³
Direction of test:	Vertical	Area of common partition:	19.6m³
Floor Construction	Details unknown.		

Frequency (Hz)	L'_{nT} (1/3 oct) dB
50	N/A
63	N/A
80	N/A
100	47.7
125	42.9
160	47.7
200	47.1
250	46.4
315	47.6
400	43.4
500	38.4
630	33.3
800	30.1
1000	25.2
1250	18.9
1600	≤17.4*
2000	≤16.4*
2500	≤15.2*
3150	≤15.4*
4000	N/A
5000	N/A

* Value is at the limit of measurment due to the influence of background noise

Frequency range according to the curve of reference values (ISO 717-2)



Rating according to ISO 717-2

$L'_{nT,w}$ = 40 dB

Evaluation based on field measurement results obtained by an engineering method

Test report: 10975S-20

Name of test institute: Soundtesting.co.uk Ltd

Date of report: 21/04/2018

Signature: Ben Bielicki

Engineer: B. Bielicki, BSc Audio Technology, AMIOA

BS EN ISO 140-4:1998 Standardised Level Difference

Revision No. 1

Field measurements of airborne sound insulation between rooms

Client: Floorscan Acoustics Ltd

Date of test: 17/04/2018

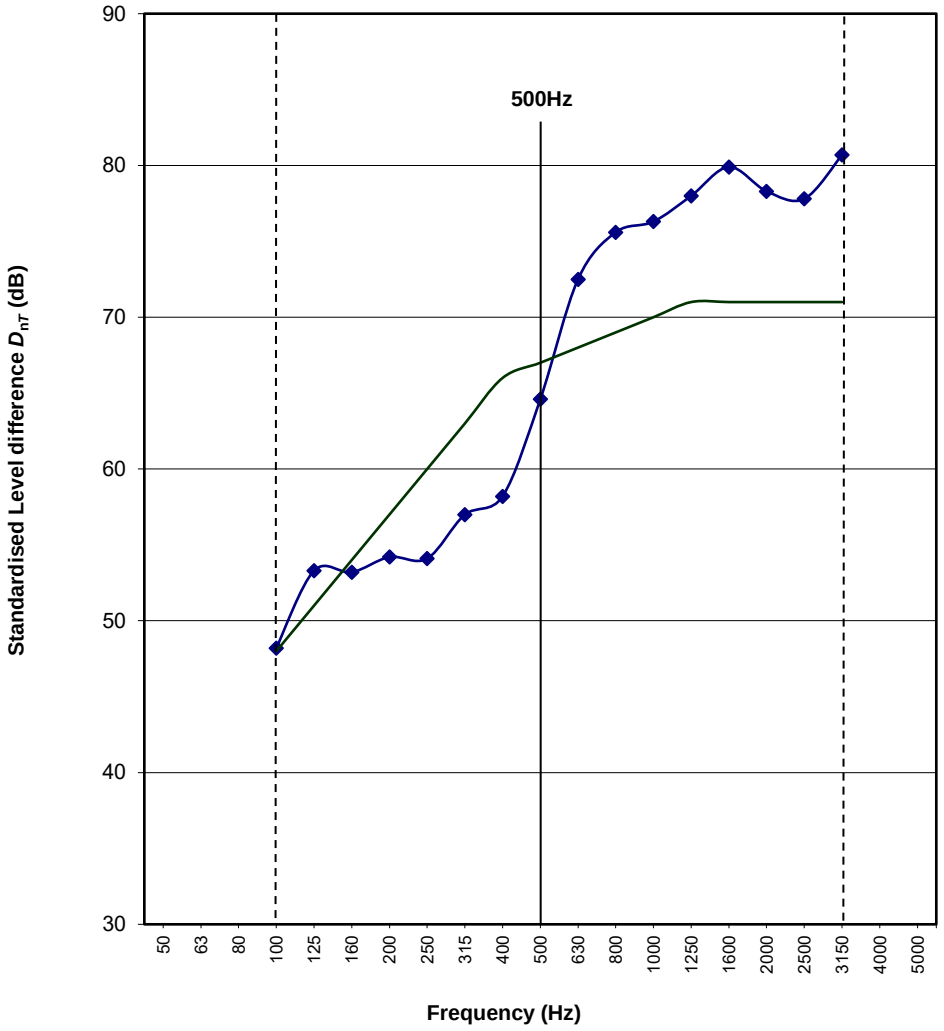
Description and identification of the building construction and test arrangement, direction of measurement:

Source Room:	5th Floor, Apartment 45, Bedroom	Source room volume:	46.4m³
Receiver room:	4th Floor, Apartment 33, Studio	Receiver room volume:	41.1m³
Direction of test:	Vertical	Area of common partition:	13.4m³
Floor Construction	Details unknown.		

Frequency (Hz)	D_{nT} (1/3 oct) dB
50	N/A
63	N/A
80	N/A
100	48.2
125	53.3
160	53.2
200	54.2
250	54.1
315	57.0
400	58.2
500	64.6
630	≥72.5*
800	≥75.6*
1000	≥76.3*
1250	≥78.0*
1600	≥79.9*
2000	≥78.3*
2500	≥77.8*
3150	≥80.7*
4000	N/A
5000	N/A

* Value is at the limit of measurment due to the influence of background noise

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



Rating according to ISO 717-1

$D_{nT,w}$ (C_{tr}) = 67 (-5) dB $D_{nT,w} + C_{tr}$ = 62 dB

Evaluation based on field measurement results obtained by an engineering method

Test report: 10975S-21

Name of test institute: Soundtesting.co.uk Ltd

Date of report: 21/04/2018

Signature: Ben Bielicki Engineer: B. Bielicki, BSc Audio Technology, AMIOA

ISO 140-7:1998 Standardised Impact Sound Pressure Level

Revision No. 1

Field measurements of impact isolation of floors

Client: Floorscan Acoustics Ltd

Date of test: 17/04/2018

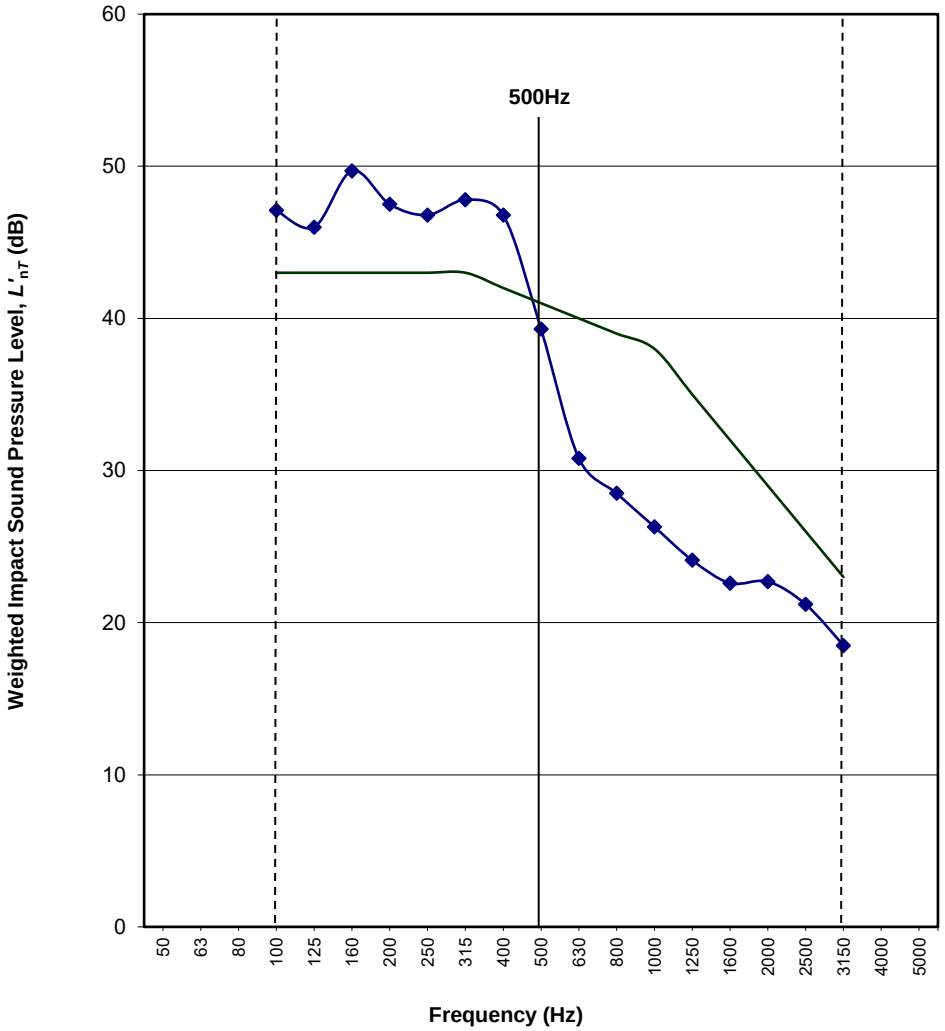
Description and identification of the building construction and test arrangement, direction of measurement:

Source Room:	5th Floor, Apartment 45, Bedroom	Source room volume:	46.4m³
Receiver room:	4th Floor, Apartment 33, Studio	Receiver room volume:	41.1m³
Direction of test:	Vertical	Area of common partition:	13.4m³
Floor Construction	Details unknown.		

Frequency (Hz)	L'_{nT} (1/3 oct) dB
50	N/A
63	N/A
80	N/A
100	≤47.1*
125	46.0
160	49.7
200	47.5
250	46.8
315	47.8
400	46.8
500	39.3
630	≤30.8*
800	≤28.5*
1000	≤26.3*
1250	≤24.1*
1600	≤22.6*
2000	≤22.7*
2500	≤21.2*
3150	≤18.5*
4000	N/A
5000	N/A

* Value is at the limit of measurment due to the influence of background noise

Frequency range according to the curve of reference values (ISO 717-2)



Rating according to ISO 717-2

$L'_{nT,w}$ = 41 dB

Evaluation based on field measurement results obtained by an engineering method

Test report: 10975S-22

Name of test institute: Soundtesting.co.uk Ltd

Date of report: 21/04/2018

Signature: Ben Bielicki

Engineer: B. Bielicki, BSc Audio Technology, AMIOA

BS EN ISO 140-4:1998 Standardised Level Difference

Revision No. 1

Field measurements of airborne sound insulation between rooms

Client: Floorscan Acoustics Ltd

Date of test: 17/04/2018

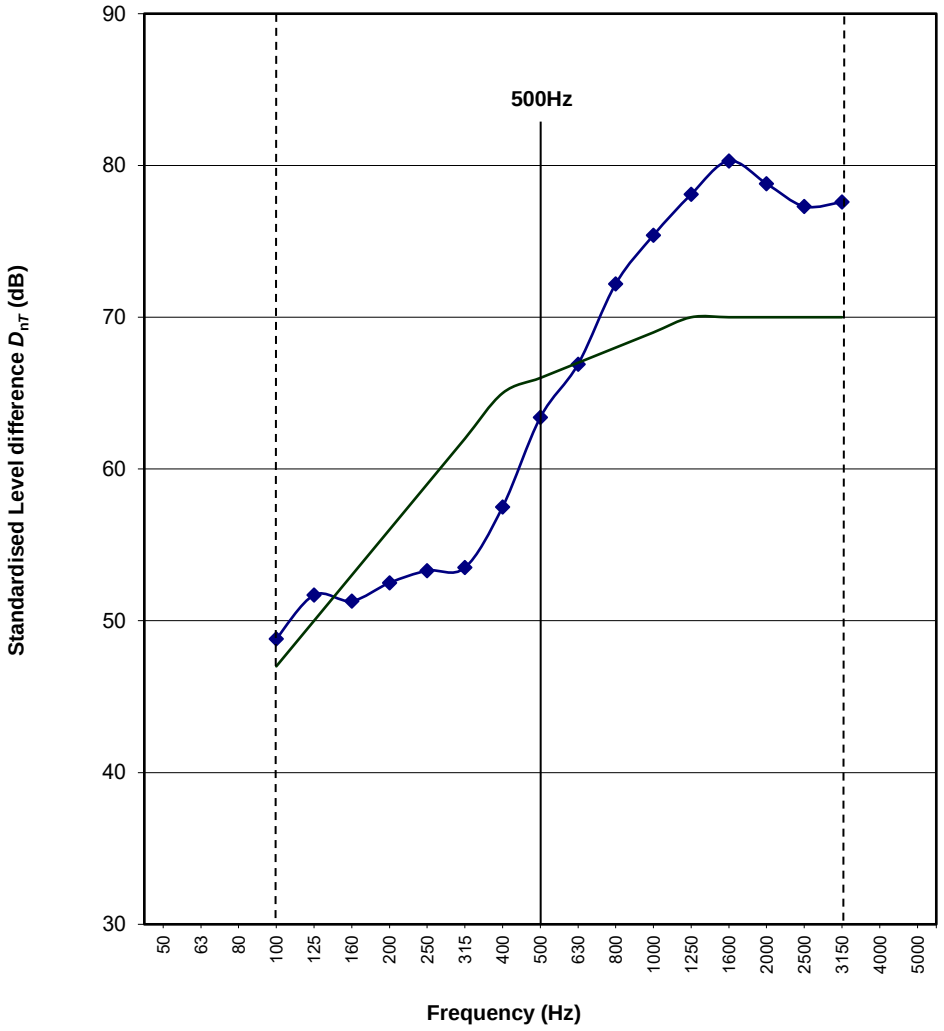
Description and identification of the building construction and test arrangement, direction of measurement:

Source Room:	5th Floor, Apartment 44, Living Room	Source room volume:	54.9m³
Receiver room:	4th Floor, Apartment 32, Studio	Receiver room volume:	41.8m³
Direction of test:	Vertical	Area of common partition:	15.4m³
Floor Construction	Details unknown.		

Frequency (Hz)	D_{nT} (1/3 oct) dB
50	N/A
63	N/A
80	N/A
100	48.8
125	51.7
160	51.3
200	52.5
250	53.3
315	53.5
400	57.5
500	63.4
630	66.9
800	72.2
1000	≥75.4*
1250	≥78.1*
1600	≥80.3*
2000	≥78.8*
2500	≥77.3*
3150	≥77.6*
4000	N/A
5000	N/A

* Value is at the limit of measurment due to the influence of background noise

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



Rating according to ISO 717-1

$D_{nT,w}$ (C_{tr}) = 66 (-6) dB $D_{nT,w} + C_{tr}$ = 60 dB

Evaluation based on field measurement results obtained by an engineering method

Test report: 10975S-23

Name of test institute: Soundtesting.co.uk Ltd

Date of report: 21/04/2018

Signature: Ben Bielicki Engineer: B. Bielicki, BSc Audio Technology, AMIOA

ISO 140-7:1998 Standardised Impact Sound Pressure Level

Revision No. 1

Field measurements of impact isolation of floors

Client: Floorscan Acoustics Ltd

Date of test: 17/04/2018

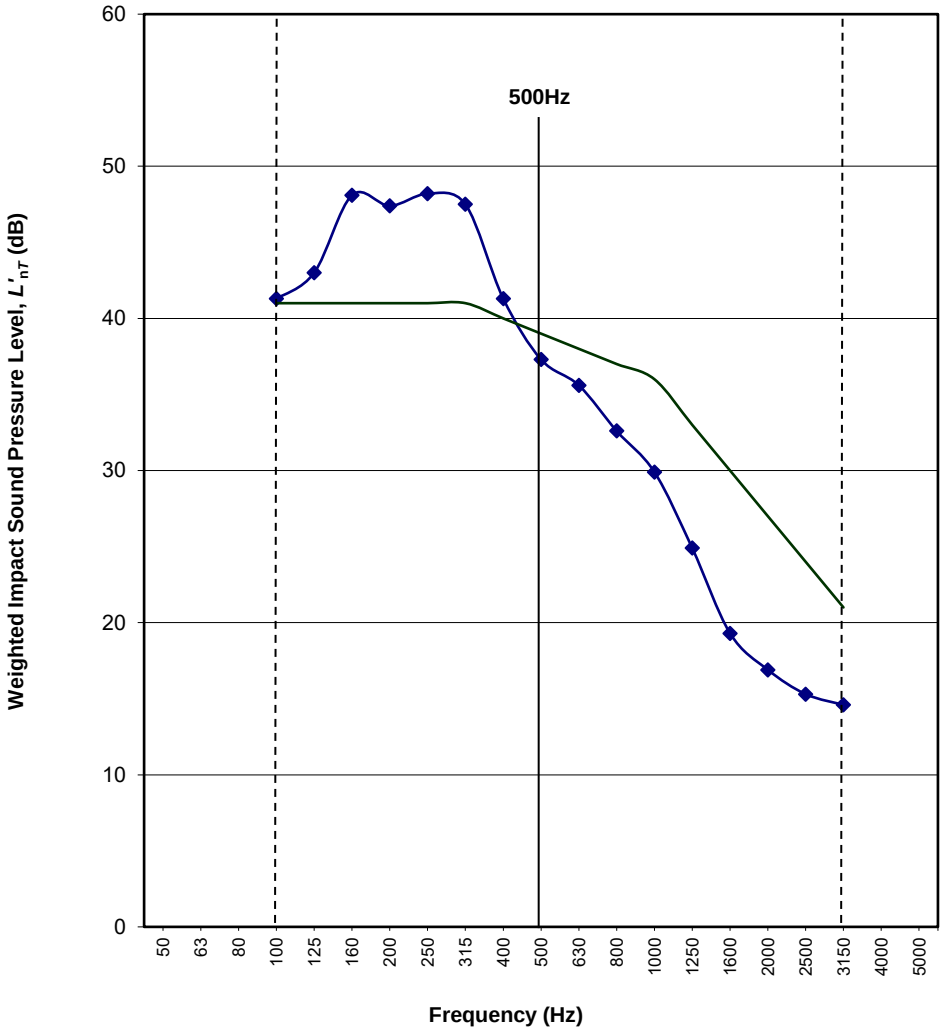
Description and identification of the building construction and test arrangement, direction of measurement:

Source Room:	5th Floor, Apartment 44, Living Room	Source room volume:	54.9m³
Receiver room:	4th Floor, Apartment 32, Studio	Receiver room volume:	41.8m³
Direction of test:	Vertical	Area of common partition:	15.4m³
Floor Construction	Details unknown.		

Frequency (Hz)	L'_{nT} (1/3 oct) dB
50	N/A
63	N/A
80	N/A
100	41.3
125	43.0
160	48.1
200	47.4
250	48.2
315	47.5
400	41.3
500	37.3
630	35.6
800	32.6
1000	29.9
1250	24.9
1600	≤19.3*
2000	≤16.9*
2500	≤15.3*
3150	≤14.6*
4000	N/A
5000	N/A

* Value is at the limit of measurment due to the influence of background noise

Frequency range according to the curve of reference values (ISO 717-2)



Rating according to ISO 717-2

$L'_{nT,w}$ = 39 dB

Evaluation based on field measurement results obtained by an engineering method

Test report: 10975S-24

Name of test institute: Soundtesting.co.uk Ltd

Date of report: 21/04/2018

Signature: Ben Bielicki

Engineer: B. Bielicki, BSc Audio Technology, AMIOA

BS EN ISO 140-4:1998 Standardised Level Difference

Revision No. 1

Field measurements of airborne sound insulation between rooms

Client: Floorscan Acoustics Ltd

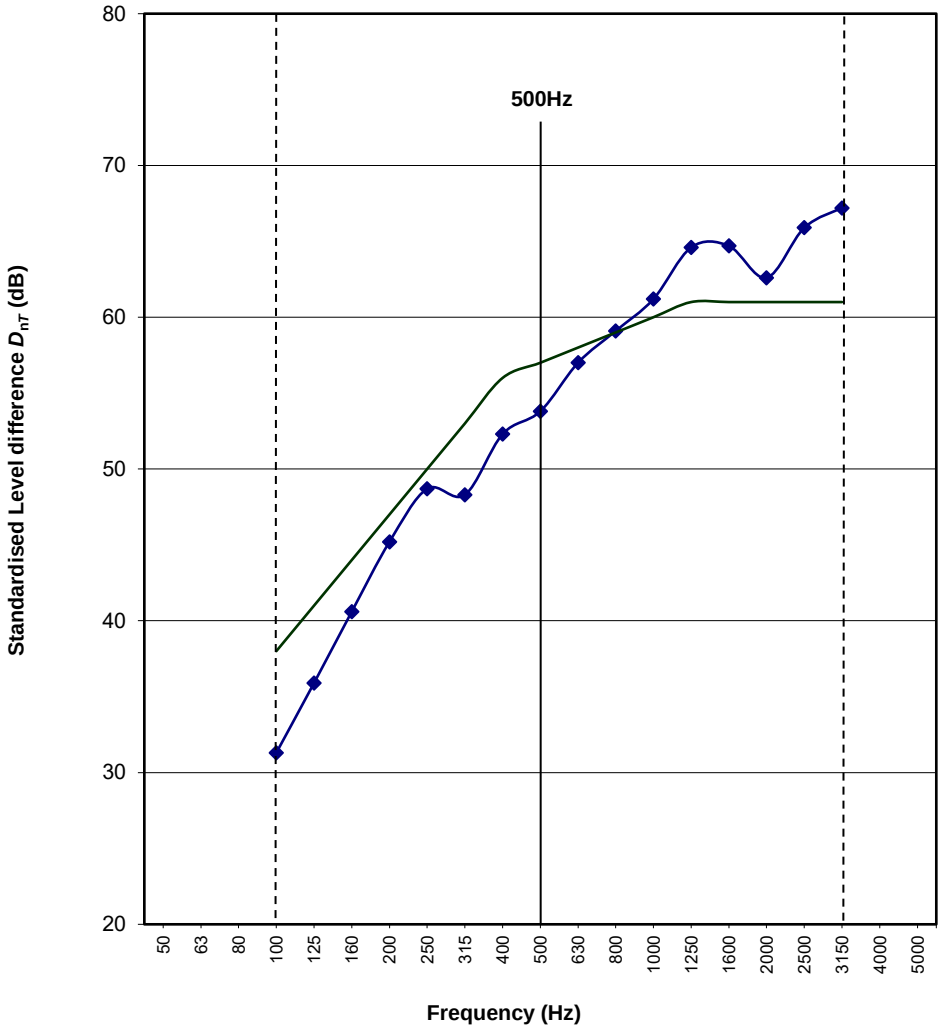
Date of test: 12/04/2018

Description and identification of the building construction and test arrangement, direction of measurement:

Source Room:	5th Floor, Apartment 53, Studio	Source room volume:	44.8m³
Receiver room:	5th Floor, Apartment 54, Studio	Receiver room volume:	44.1m³
Direction of test:	Horizontal	Area of common partition:	15.4m³
Floor Construction	Details unknown.		

Frequency (Hz)	D_{nT} (1/3 oct) dB
50	N/A
63	N/A
80	N/A
100	31.3
125	35.9
160	40.6
200	45.2
250	48.7
315	48.3
400	52.3
500	53.8
630	57.0
800	59.1
1000	61.2
1250	64.6
1600	64.7
2000	62.6
2500	65.9
3150	67.2
4000	N/A
5000	N/A

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



Rating according to ISO 717-1

$D_{nT,w}$ (C_{tr}) = 57 (-9) dB $D_{nT,w} + C_{tr}$ = 48 dB

Evaluation based on field measurement results obtained by an engineering method

Test report: 10975S-25

Name of test institute: Soundtesting.co.uk Ltd

Date of report: 21/04/2018

Signature: Ben Bielicki

Engineer: B. Bielicki, BSc Audio Technology, AMIOA

BS EN ISO 140-4:1998 Standardised Level Difference

Revision No. 1

Field measurements of airborne sound insulation between rooms

Client: Floorscan Acoustics Ltd

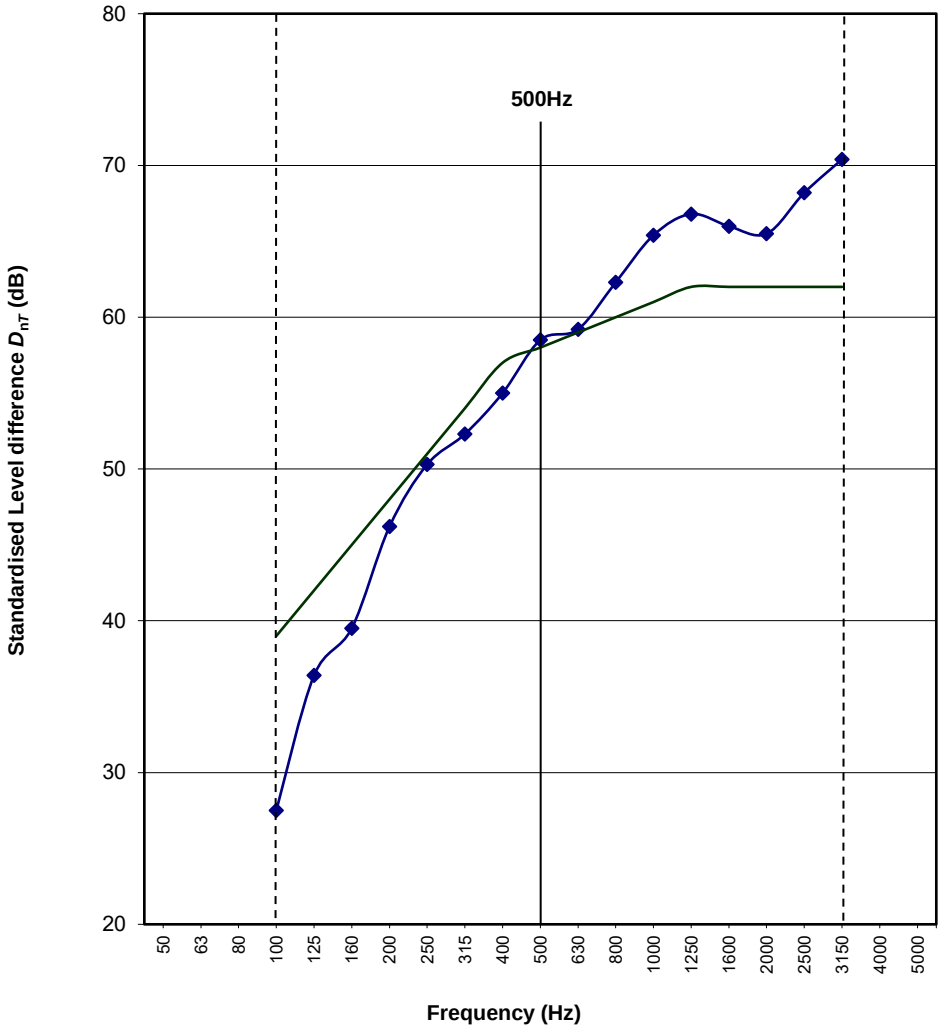
Date of test: 12/04/2018

Description and identification of the building construction and test arrangement, direction of measurement:

Source Room:	4th Floor, Apartment 41, Studio	Source room volume:	44.5m³
Receiver room:	4th Floor, Apartment 42, Studio	Receiver room volume:	44.3m³
Direction of test:	Horizontal	Area of common partition:	12.9m³
Floor Construction	Details unknown.		

Frequency (Hz)	D_{nT} (1/3 oct) dB
50	N/A
63	N/A
80	N/A
100	27.5
125	36.4
160	39.5
200	46.2
250	50.3
315	52.3
400	55.0
500	58.5
630	59.2
800	62.3
1000	65.4
1250	66.8
1600	66.0
2000	65.5
2500	68.2
3150	70.4
4000	N/A
5000	N/A

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



Rating according to ISO 717-1

$D_{nT,w}$ (C_{tr}) = 58 (-12) dB $D_{nT,w} + C_{tr}$ = 46 dB

Evaluation based on field measurement results obtained by an engineering method

Test report: 10975S-26

Name of test institute: Soundtesting.co.uk Ltd

Date of report: 21/04/2018

Signature: Ben Bielicki Engineer: B. Bielicki, BSc Audio Technology, AMIOA

BS EN ISO 140-4:1998 Standardised Level Difference

Revision No. 1

Field measurements of airborne sound insulation between rooms

Client: Floorscan Acoustics Ltd

Date of test: 12/04/2018

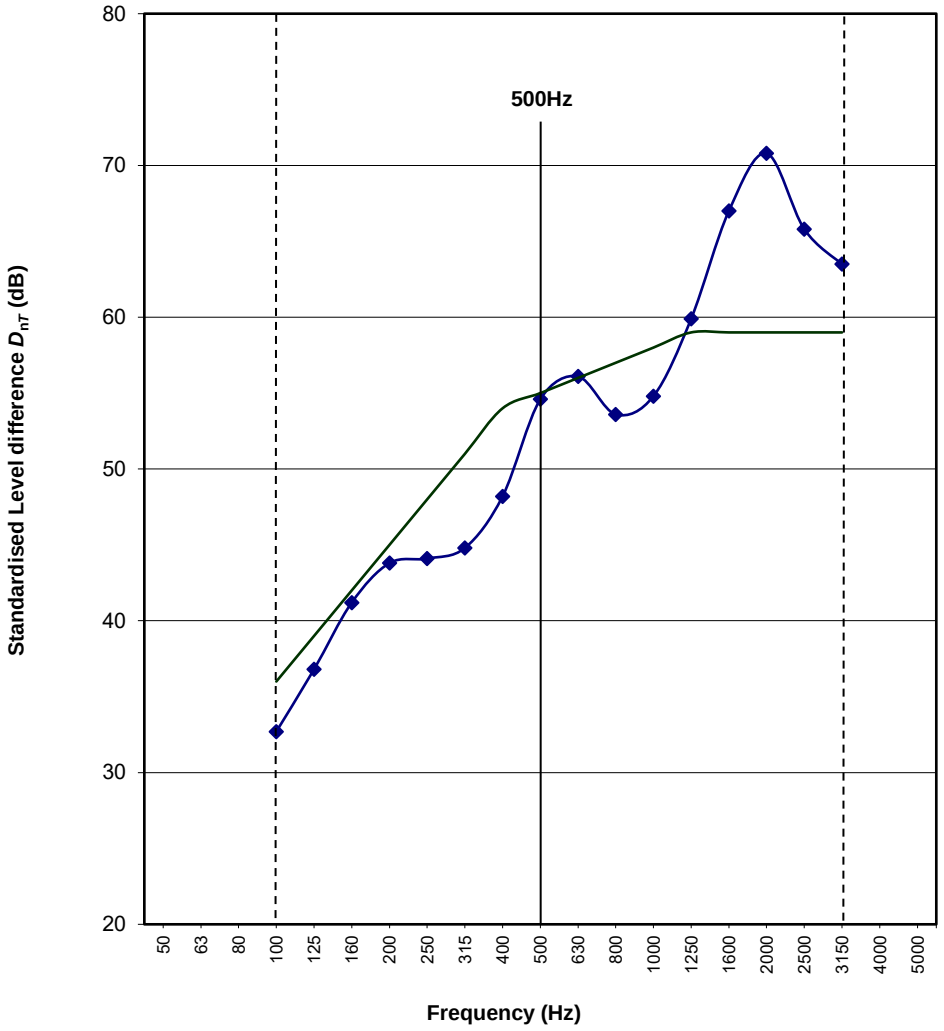
Description and identification of the building construction and test arrangement, direction of measurement:

Source Room:	3rd Floor, Apartment 24, Kitchen/Living Room/Dining Room	Source room volume:	57.2m³
Receiver room:	3rd Floor, Apartment 23, Bedroom	Receiver room volume:	40.5m³
Direction of test:	Horizontal	Area of common partition:	12.3m³
Floor Construction	Details unknown.		

Frequency (Hz)	D_{nT} (1/3 oct) dB
50	N/A
63	N/A
80	N/A
100	32.7
125	36.8
160	41.2
200	43.8
250	44.1
315	44.8
400	48.2
500	54.6
630	56.1
800	53.6
1000	54.8
1250	59.9
1600	67.0
2000	≥70.8*
2500	≥65.8*
3150	≥63.5*
4000	N/A
5000	N/A

* Value is at the limit of measurment due to the influence of background noise

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



Rating according to ISO 717-1

$D_{nT,w}$ (C_{tr}) = 55 (-7) dB $D_{nT,w} + C_{tr}$ = 48 dB

Evaluation based on field measurement results obtained by an engineering method

Test report: 10975S-27

Name of test institute: Soundtesting.co.uk Ltd

Date of report: 21/04/2018

Signature: Ben Bielicki

Engineer: B. Bielicki, BSc Audio Technology, AMIOA

BS EN ISO 140-4:1998 Standardised Level Difference

Revision No. 1

Field measurements of airborne sound insulation between rooms

Client: Floorscan Acoustics Ltd

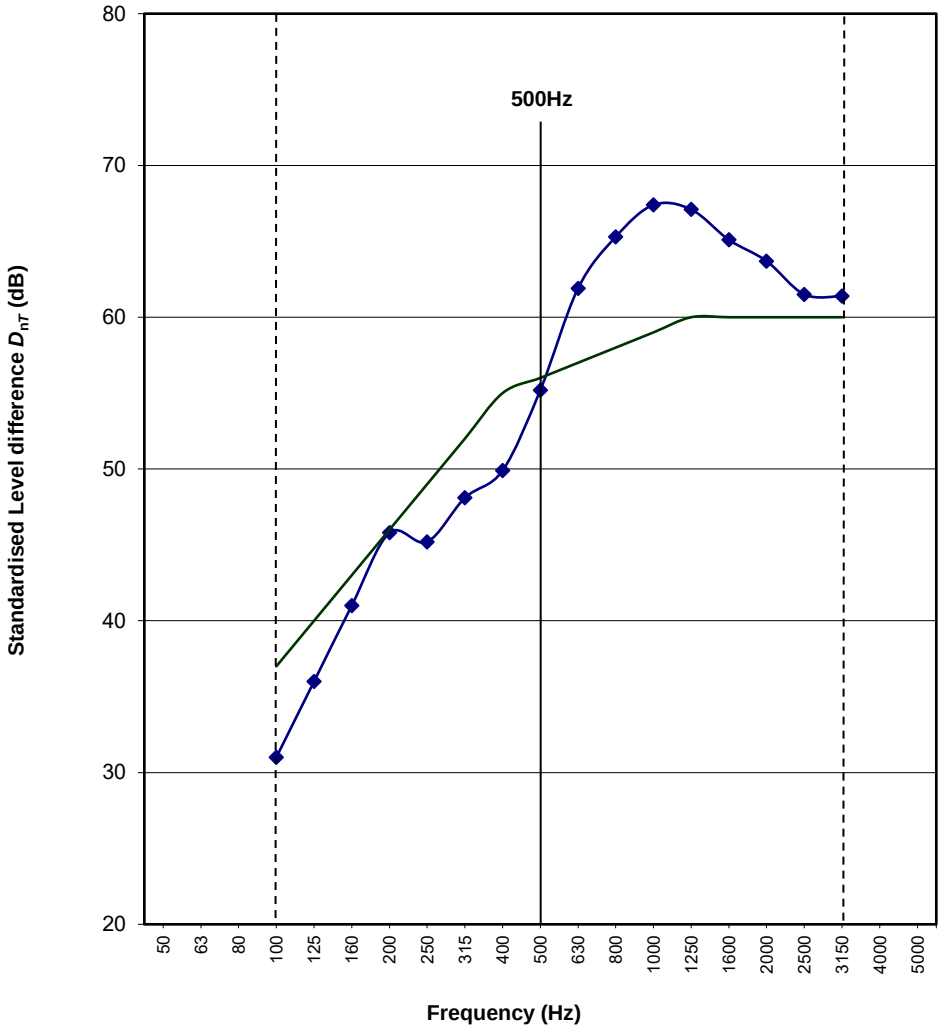
Date of test: 12/04/2018

Description and identification of the building construction and test arrangement, direction of measurement:

Source Room:	2nd Floor, Apartment 14, Kitchen/Living Room/Dining Room	Source room volume:	59.5m³
Receiver room:	2nd Floor, Apartment 13, Bedroom	Receiver room volume:	41.0m³
Direction of test:	Horizontal	Area of common partition:	7.3m³
Floor Construction	Details unknown.		

Frequency (Hz)	D_{nT} (1/3 oct) dB
50	N/A
63	N/A
80	N/A
100	31.0
125	36.0
160	41.0
200	45.8
250	45.2
315	48.1
400	49.9
500	55.2
630	61.9
800	65.3
1000	67.4
1250	67.1
1600	65.1
2000	63.7
2500	61.5
3150	61.4
4000	N/A
5000	N/A

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



Rating according to ISO 717-1

$D_{nT,w}$ (C_{tr}) = 56 (-8) dB $D_{nT,w} + C_{tr}$ = 48 dB

Evaluation based on field measurement results obtained by an engineering method

Test report: 10975S-28

Name of test institute: Soundtesting.co.uk Ltd

Date of report: 21/04/2018

Signature: Ben Bielicki

Engineer: B. Bielicki, BSc Audio Technology, AMIOA

BS EN ISO 140-4:1998 Standardised Level Difference

Revision No. 1

Field measurements of airborne sound insulation between rooms

Client: Floorscan Acoustics Ltd

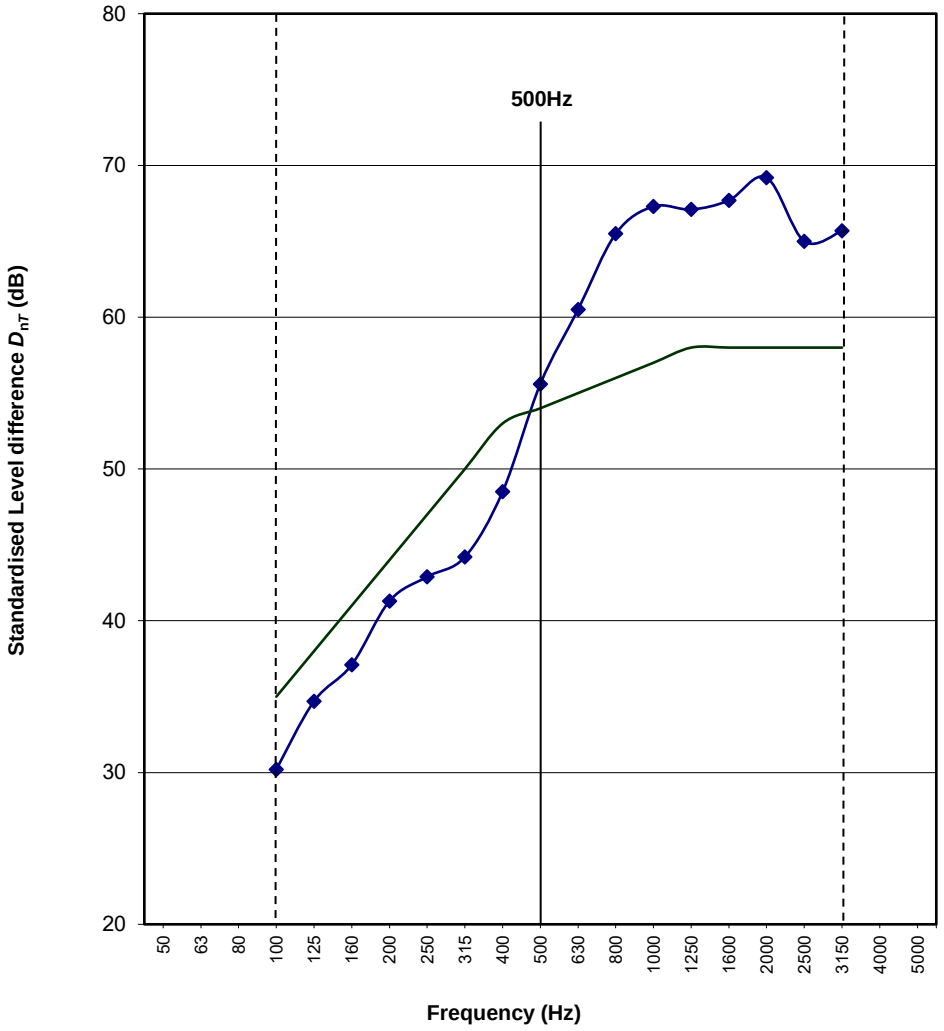
Date of test: 16/04/2018

Description and identification of the building construction and test arrangement, direction of measurement:

Source Room:	3rd Floor, Apartment 25, Kitchen	Source room volume:	59.7m³
Receiver room:	3rd Floor, Apartment 24, Kitchen	Receiver room volume:	55.4m³
Direction of test:	Horizontal	Area of common partition:	13.3m³
Floor Construction	Details unknown.		

Frequency (Hz)	D_{nT} (1/3 oct) dB
50	N/A
63	N/A
80	N/A
100	30.2
125	34.7
160	37.1
200	41.3
250	42.9
315	44.2
400	48.5
500	55.6
630	60.5
800	65.5
1000	67.3
1250	67.1
1600	67.7
2000	69.2
2500	65.0
3150	65.7
4000	N/A
5000	N/A

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



Rating according to ISO 717-1

$D_{nT,w}$ (C_{tr}) = 54 (-7) dB $D_{nT,w} + C_{tr}$ = 47 dB

Evaluation based on field measurement results obtained by an engineering method

Test report: 10975S-29

Name of test institute: Soundtesting.co.uk Ltd

Date of report: 21/04/2018

Signature: Ben Bielicki

Engineer: B. Bielicki, BSc Audio Technology, AMIOA

BS EN ISO 140-4:1998 Standardised Level Difference

Revision No. 1

Field measurements of airborne sound insulation between rooms

Client: Floorscan Acoustics Ltd

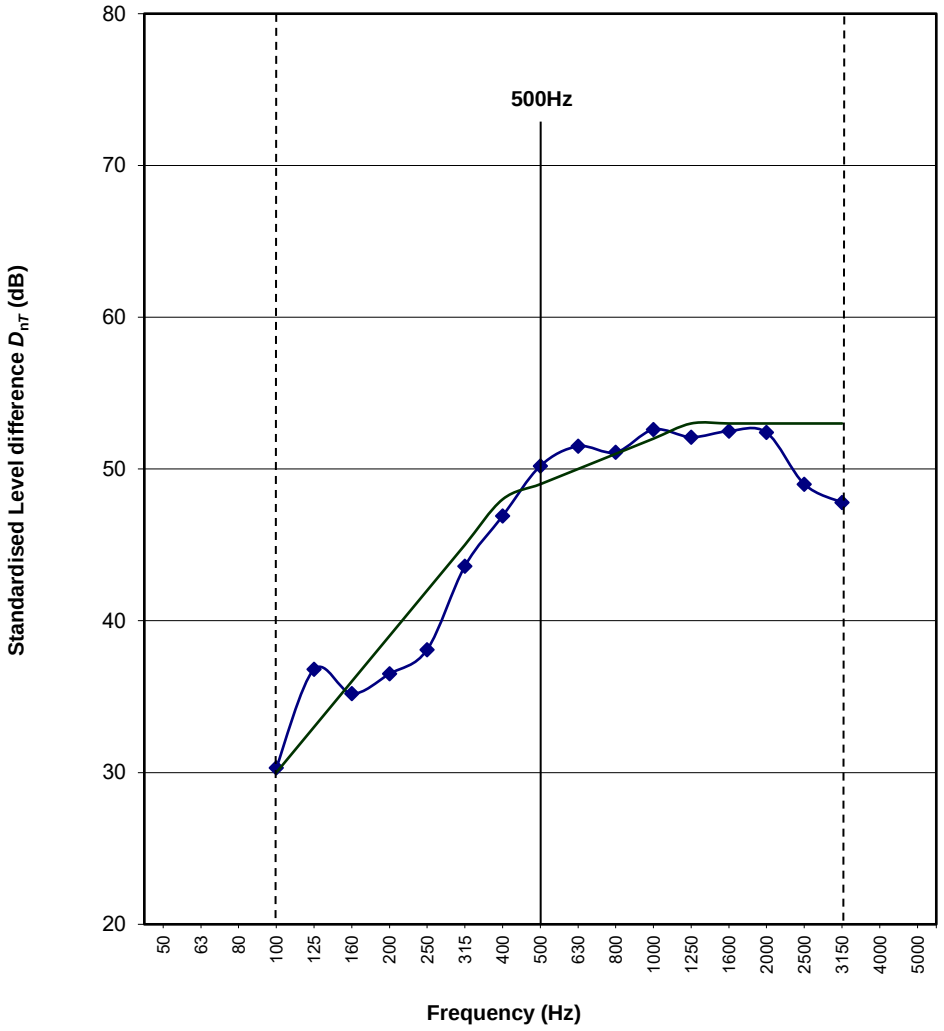
Date of test: 16/04/2018

Description and identification of the building construction and test arrangement, direction of measurement:

Source Room:	3rd Floor, Apartment 25, Bedroom 2	Source room volume:	32.6m³
Receiver room:	3rd Floor, Apartment 24, Bedroom 2	Receiver room volume:	23.6m³
Direction of test:	Horizontal	Area of common partition:	10.9m³
Floor Construction	Details unknown.		

Frequency (Hz)	D_{nT} (1/3 oct) dB
50	N/A
63	N/A
80	N/A
100	30.3
125	36.8
160	35.2
200	36.5
250	38.1
315	43.6
400	46.9
500	50.2
630	51.5
800	51.1
1000	52.6
1250	52.1
1600	52.5
2000	52.4
2500	49.0
3150	47.8
4000	N/A
5000	N/A

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



Rating according to ISO 717-1

$D_{nT,w}$ (C_{tr}) = 49 (-4) dB $D_{nT,w} + C_{tr}$ = 45 dB

Evaluation based on field measurement results obtained by an engineering method

Test report: 10975S-30

Name of test institute: Soundtesting.co.uk Ltd

Date of report: 21/04/2018

Signature: Ben Bielicki Engineer: B. Bielicki, BSc Audio Technology, AMIOA

BS EN ISO 140-4:1998 Standardised Level Difference

Revision No. 0

Field measurements of airborne sound insulation between rooms

Client: Floorscan Acoustics Ltd

Date of test: 16/04/2018

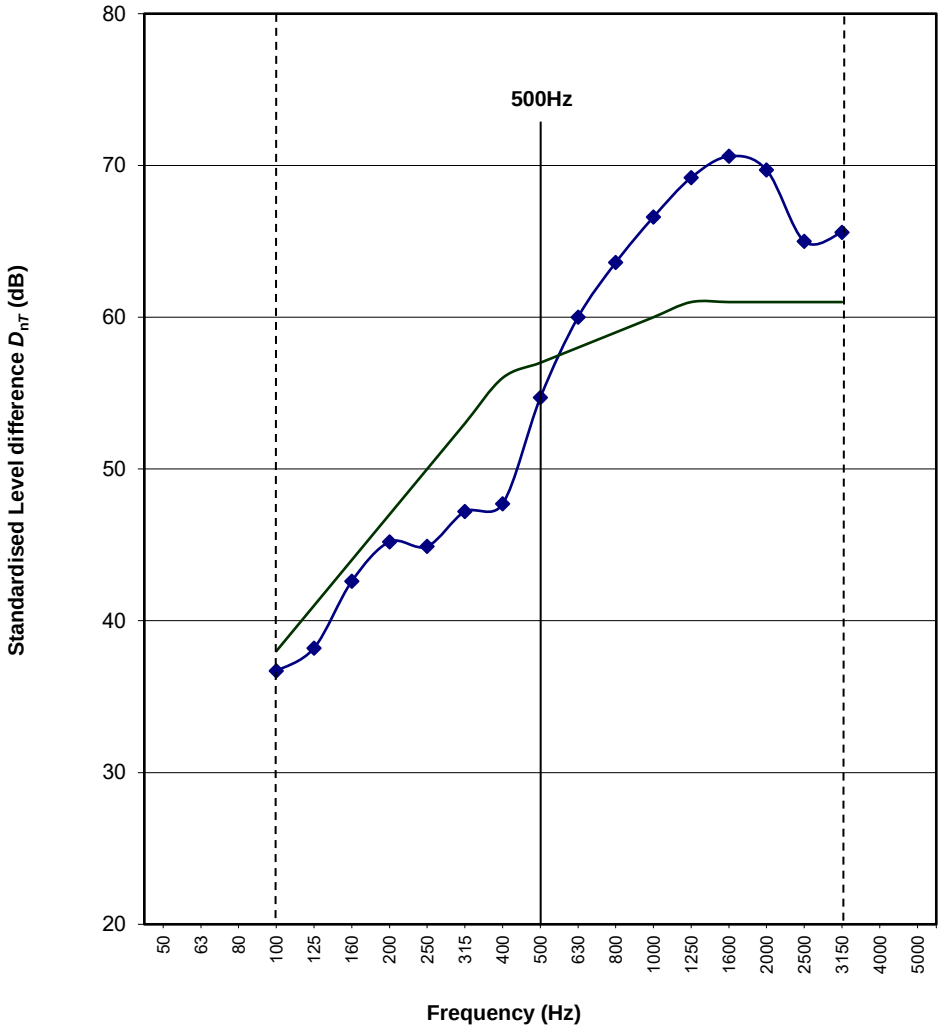
Description and identification of the building construction and test arrangement, direction of measurement:

Source Room:	2nd Floor, Apartment 14, Kitchen	Source room volume:	66.3m³
Receiver room:	2nd Floor, Apartment 15, Kitchen	Receiver room volume:	59.6m³
Direction of test:	Horizontal	Area of common partition:	13.5m³
Floor Construction	Details unknown.		

Frequency (Hz)	D_{nT} (1/3 oct) dB
50	N/A
63	N/A
80	N/A
100	36.7
125	38.2
160	42.6
200	45.2
250	44.9
315	47.2
400	47.7
500	54.7
630	60.0
800	63.6
1000	66.6
1250	69.2
1600	70.6
2000	69.7
2500	65.0
3150	≥65.6*
4000	N/A
5000	N/A

* Value is at the limit of measurment due to the influence of background noise

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



Rating according to ISO 717-1

$D_{nT,w}$ (C_{tr}) = 57 (-6) dB $D_{nT,w} + C_{tr}$ = 51 dB

Evaluation based on field measurement results obtained by an engineering method

Test report: 10975S-31

Name of test institute: Soundtesting.co.uk Ltd

Date of report: 21/04/2018

Signature: Ben Bielicki

Engineer: B. Bielicki, BSc Audio Technology, AMIOA

BS EN ISO 140-4:1998 Standardised Level Difference

Revision No. 1

Field measurements of airborne sound insulation between rooms

Client: Floorscan Acoustics Ltd

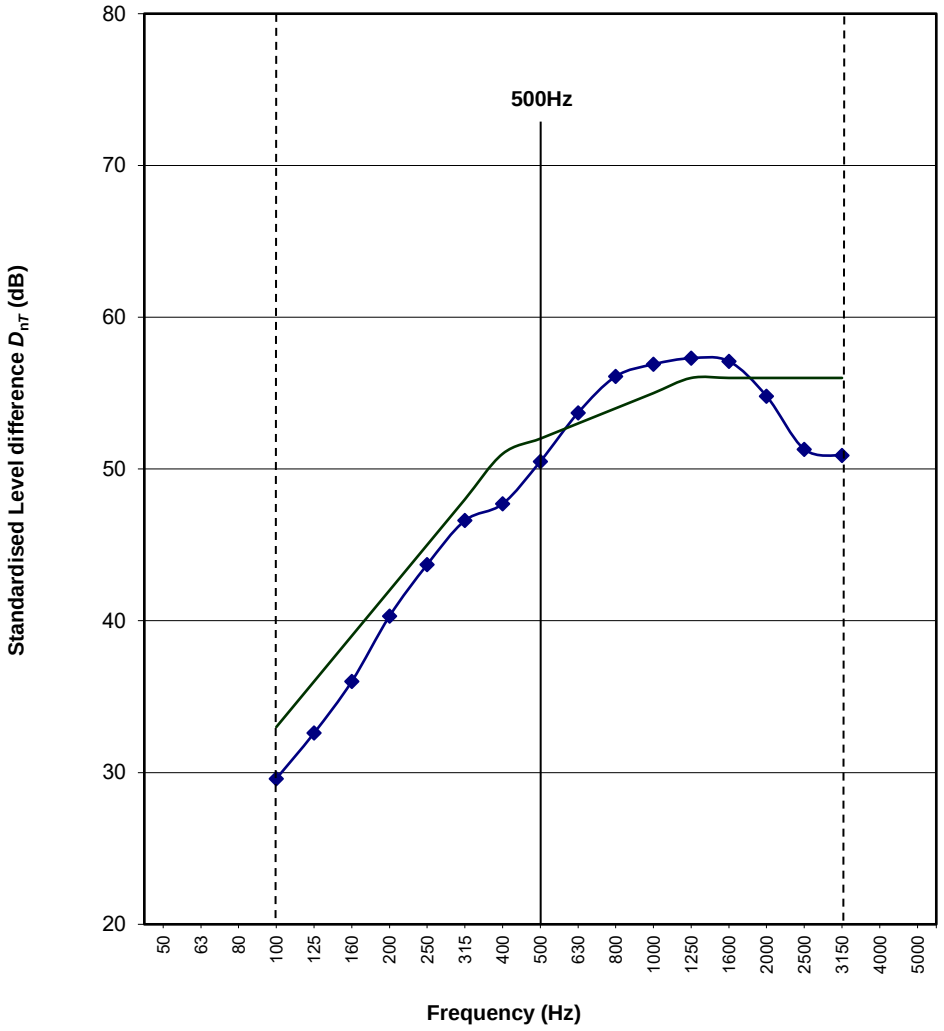
Date of test: 16/04/2018

Description and identification of the building construction and test arrangement, direction of measurement:

Source Room:	2nd Floor, Apartment 15, Bedroom 2	Source room volume:	30.8m³
Receiver room:	2nd Floor, Apartment 14, Bedroom 2	Receiver room volume:	23.3m³
Direction of test:	Horizontal	Area of common partition:	12.0m³
Floor Construction	Details unknown.		

Frequency (Hz)	D_{nT} (1/3 oct) dB
50	N/A
63	N/A
80	N/A
100	29.6
125	32.6
160	36.0
200	40.3
250	43.7
315	46.6
400	47.7
500	50.5
630	53.7
800	56.1
1000	56.9
1250	57.3
1600	57.1
2000	54.8
2500	51.3
3150	50.9
4000	N/A
5000	N/A

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



Rating according to ISO 717-1

$D_{nT,w}$ (C_{tr}) = 52 (-7) dB $D_{nT,w} + C_{tr}$ = 45 dB

Evaluation based on field measurement results obtained by an engineering method

Test report: 10975S-32

Name of test institute: Soundtesting.co.uk Ltd

Date of report: 21/04/2018

Signature: Ben Bielicki

Engineer: B. Bielicki, BSc Audio Technology, AMIOA

BS EN ISO 140-4:1998 Standardised Level Difference

Revision No. 1

Field measurements of airborne sound insulation between rooms

Client: Floorscan Acoustics Ltd

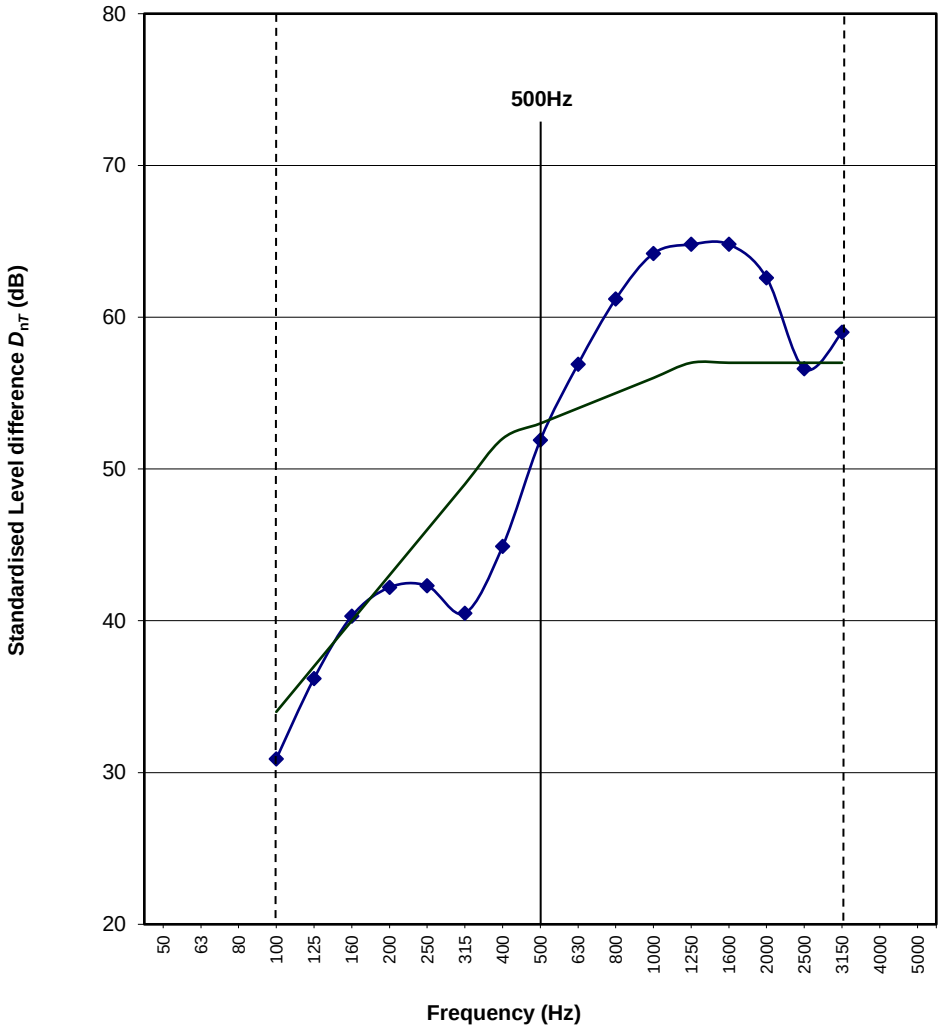
Date of test: 17/04/2018

Description and identification of the building construction and test arrangement, direction of measurement:

Source Room:	5th Floor, Apartment 48, Studio	Source room volume:	47.2m³
Receiver room:	5th Floor, Apartment 49, Bedroom	Receiver room volume:	37.3m³
Direction of test:	Horizontal	Area of common partition:	8.0m³
Floor Construction	Details unknown.		

Frequency (Hz)	D_{nT} (1/3 oct) dB
50	N/A
63	N/A
80	N/A
100	30.9
125	36.2
160	40.3
200	42.2
250	42.3
315	40.5
400	44.9
500	51.9
630	56.9
800	61.2
1000	64.2
1250	64.8
1600	64.8
2000	62.6
2500	56.6
3150	59.0
4000	N/A
5000	N/A

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



Rating according to ISO 717-1

$D_{nT,w}$ (C_{tr}) = 53 (-6) dB $D_{nT,w} + C_{tr}$ = 47 dB

Evaluation based on field measurement results obtained by an engineering method

Test report: 10975S-33

Name of test institute: Soundtesting.co.uk Ltd

Date of report: 21/04/2018

Signature: Ben Bielicki

Engineer: B. Bielicki, BSc Audio Technology, AMIOA

BS EN ISO 140-4:1998 Standardised Level Difference

Revision No. 1

Field measurements of airborne sound insulation between rooms

Client: Floorscan Acoustics Ltd

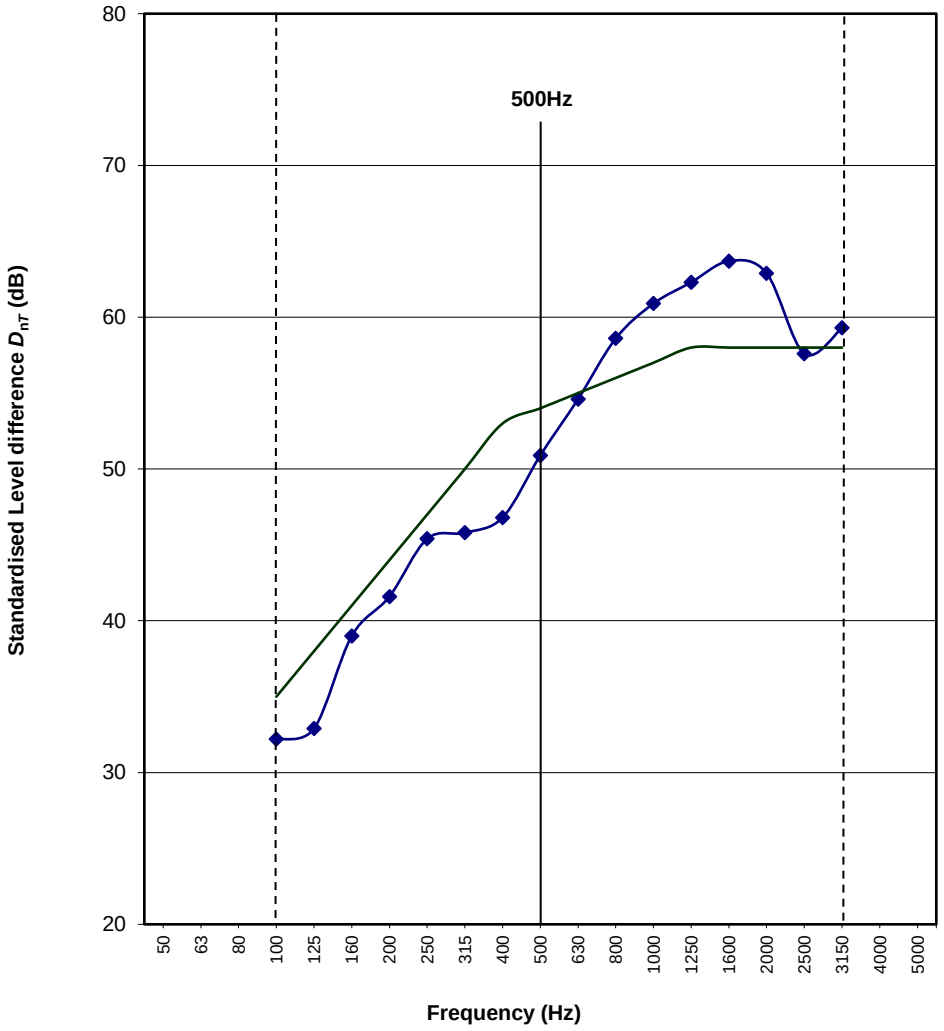
Date of test: 17/04/2018

Description and identification of the building construction and test arrangement, direction of measurement:

Source Room:	5th Floor, Apartment 44, Living Room	Source room volume:	54.9m³
Receiver room:	5th Floor, Apartment 45, Bedroom	Receiver room volume:	46.4m³
Direction of test:	Horizontal	Area of common partition:	10.8m³
Floor Construction	Details unknown.		

Frequency (Hz)	D_{nT} (1/3 oct) dB
50	N/A
63	N/A
80	N/A
100	32.2
125	32.9
160	39.0
200	41.6
250	45.4
315	45.8
400	46.8
500	50.9
630	54.6
800	58.6
1000	60.9
1250	62.3
1600	63.7
2000	62.9
2500	57.6
3150	59.3
4000	N/A
5000	N/A

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



Rating according to ISO 717-1

$D_{nT,w}$ (C_{tr}) = 54 (-7) dB $D_{nT,w} + C_{tr}$ = 47 dB

Evaluation based on field measurement results obtained by an engineering method

Test report: 10975S-34

Name of test institute: Soundtesting.co.uk Ltd

Date of report: 21/04/2018

Signature: Ben Bielicki

Engineer: B. Bielicki, BSc Audio Technology, AMIOA

BS EN ISO 140-4:1998 Standardised Level Difference

Revision No. 1

Field measurements of airborne sound insulation between rooms

Client: Floorscan Acoustics Ltd

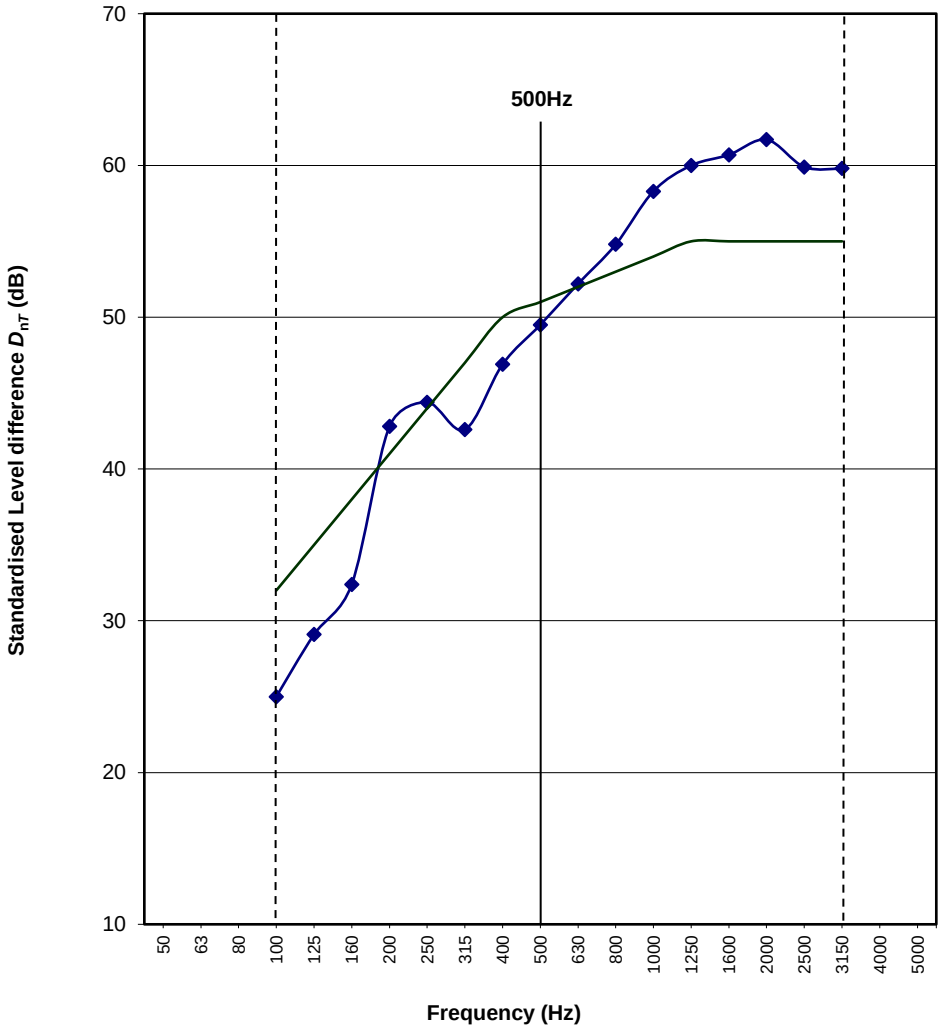
Date of test: 17/04/2018

Description and identification of the building construction and test arrangement, direction of measurement:

Source Room:	4th Floor, Apartment 35 Studio	Source room volume:	41.6m³
Receiver room:	4th Floor, Apartment 36, Studio	Receiver room volume:	39.2m³
Direction of test:	Horizontal	Area of common partition:	7.6m³
Floor Construction	Details unknown.		

Frequency (Hz)	D_{nT} (1/3 oct) dB
50	N/A
63	N/A
80	N/A
100	25.0
125	29.1
160	32.4
200	42.8
250	44.4
315	42.6
400	46.9
500	49.5
630	52.2
800	54.8
1000	58.3
1250	60.0
1600	60.7
2000	61.7
2500	59.9
3150	59.8
4000	N/A
5000	N/A

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



Rating according to ISO 717-1

$D_{nT,w}$ (C_{tr}) = 51 (-9) dB $D_{nT,w} + C_{tr}$ = 42 dB

Evaluation based on field measurement results obtained by an engineering method

Test report: 10975S-35

Name of test institute: Soundtesting.co.uk Ltd

Date of report: 21/04/2018

Signature: Ben Bielicki

Engineer: B. Bielicki, BSc Audio Technology, AMIOA

BS EN ISO 140-4:1998 Standardised Level Difference

Revision No. 1

Field measurements of airborne sound insulation between rooms

Client: Floorscan Acoustics Ltd

Date of test: 17/04/2018

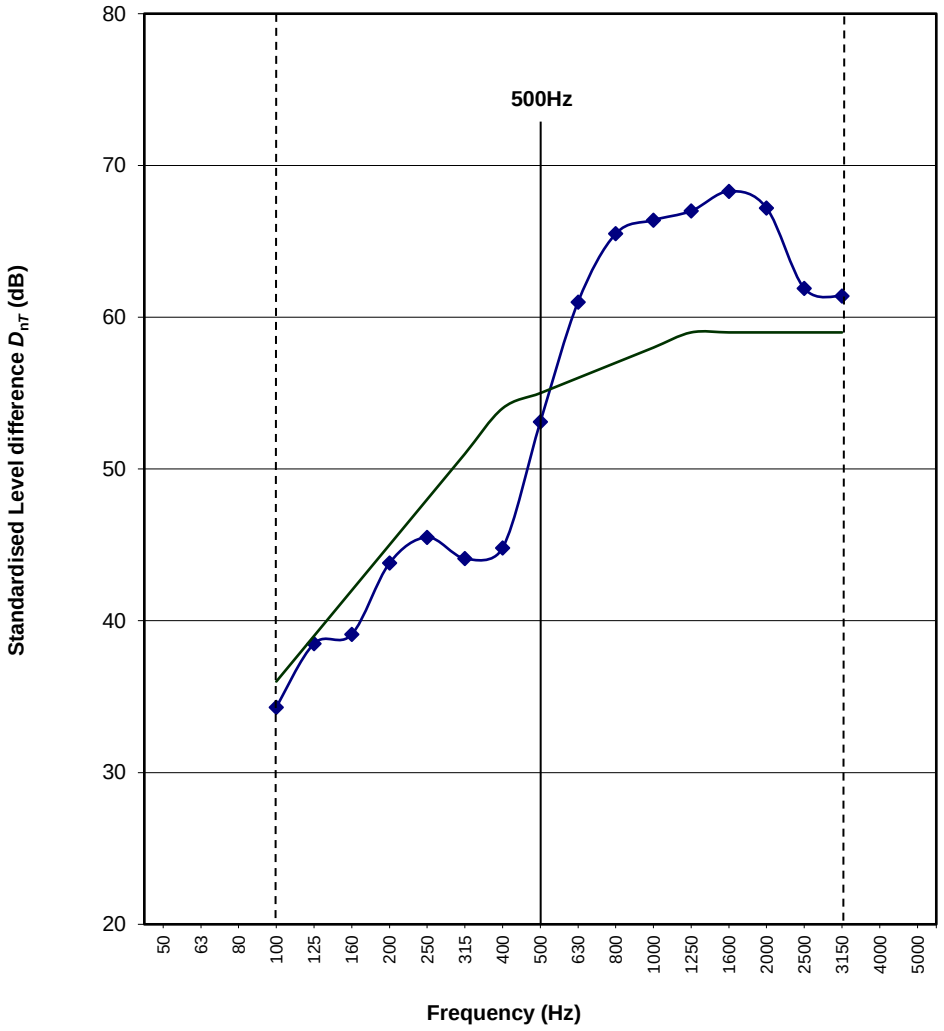
Description and identification of the building construction and test arrangement, direction of measurement:

Source Room:	4th Floor, Apartment 32, Studio	Source room volume:	41.8m³
Receiver room:	4th Floor, Apartment 33, Studio	Receiver room volume:	41.1m³
Direction of test:	Horizontal	Area of common partition:	7.8m³
Floor Construction	Details unknown.		

Frequency (Hz)	D_{nT} (1/3 oct) dB
50	N/A
63	N/A
80	N/A
100	34.3
125	38.5
160	39.1
200	43.8
250	45.5
315	44.1
400	44.8
500	53.1
630	61.0
800	≥65.5*
1000	≥66.4*
1250	≥67.0*
1600	68.3
2000	67.2
2500	61.9
3150	61.4
4000	N/A
5000	N/A

* Value is at the limit of measurment due to the influence of background noise

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



Rating according to ISO 717-1

$D_{nT,w}$ (C_{tr}) = 55 (-6) dB $D_{nT,w} + C_{tr}$ = 49 dB

Evaluation based on field measurement results obtained by an engineering method

Test report: 10975S-36

Name of test institute: Soundtesting.co.uk Ltd

Date of report: 21/04/2018

Signature: Ben Bielicki

Engineer: B. Bielicki, BSc Audio Technology, AMIOA