



To:	Adam Isdale (Red Ink Property)	of:	True Estates Ltd
Author:	Paul Knowles	of:	AEC
Checked:	Liam Harrison	of:	AEC

156 Walmersley Road, Bury

Results of Pre-Completion Testing

1.0 Introduction

- 1.1 Further to the pre-completion sound insulation testing undertaken between apartments for residential use formed by a material change of use at 156 Walmersley Road, Bury, please find the results below.
- 1.2 In terms of the testing, it should be noted that I am a registered tester under the Association of Noise Consultants (ANC's) pre-completion testing scheme.
- 1.3 The testing has been registered with the ANC and has the unique ANC Task number 139865.
- 1.4 The sound insulation testing was undertaken to demonstrate compliance with the required sound insulation performances presented in The Building Regulations 2010 approved publication Approved Document E (ADE) '*Resistance to the passage of sound*' 2003 edition (incorporating 2015 amendments).

2.0 Methodology

- 2.1 The sound insulation measurements were carried out in general accordance with the standards identified below:
 - ISO 140-4: 1998 '*Acoustics - Measurement of sound insulation in buildings and of building elements - Part 4: Field measurements of airborne sound insulation between rooms*'
 - ISO 140-7: 1998 '*Acoustics - Measurement of sound insulation in buildings and of building elements - Part 7: Field measurements of impact sound insulation between rooms*'
 - BS EN ISO 3382-2: 2008 '*Acoustics – Measurement of room acoustic parameters – Part 2: Reverberation time in ordinary rooms*'
 - Test procedure in Annex B of ADE (incorporating 2015 amendments)
 - ANC '*Testers' Manual for sound insulation testing in dwellings*' (2025)
- 2.2 The test data has been analysed in full accordance with:
 - ISO 717-1: 1997 '*Acoustics. Rating of sound insulation in buildings and of building elements. Airborne sound insulation*'
 - ISO 717-2: 1997 '*Acoustics. Rating of sound insulation in buildings and of building elements. Impact sound insulation*'

3.0 Criteria

- 3.1 The airborne and impact sound insulation performance standards for walls and floors that have a separating function are presented in Table 0.1 of ADE and are reproduced in Table 3.1, below.

Table 3.1 – Required Airborne and Impact Sound Insulation Performances between Purpose Built Flats formed by a Material Change of Use

Separating Structures	Airborne Sound Insulation $D_{nT,w} + C_{tr}$ dB (Minimum Values)	Impact Sound Insulation $L'_{nT,w}$ dB (Maximum Values)
Walls	43	-
Floors and stairs	43	64

4.0 Results and Assessment

- 4.1 The airborne sound insulation performances achieved by the separating walls and floors tested are presented in Table 5.1, below, compared to the performance standards specified in ADE.

Table 4.1 – Measured Airborne Sound Insulation Compared to the Performance Standards

Test ID/	Source Room	Receiving Room	Wall/ Floor	Airborne Sound Insulation, $dBD_{nT,w} + C_{tr}$		
				Performance Standard	Measured	Performance Standard Met*
01	Flat 2 (30m ³)	Flat 1 (30m ³)	Wall	≥ 43	47	✓
02	Flat 2 (30m ³)	Flat 3 (30m ³)	Floor	≥ 43	45	✓

* Responsibility for deciding on compliance with Building Regulations lies with the Building Control Body

- 4.2 The impact sound insulation performance achieved by the floors tested is presented in Table 4.2, below, compared to the performance standards specified in ADE.

Table 4.2 – Measured Impact Sound Insulation Compared to the Performance Standards

Test ID/	Source Room	Receiving Room	Impact Sound Insulation, $dBL'_{nT,w}$		
			Performance Standard	Measured	Performance Standard Met*
03	Flat 3 (30m ³)	Flat 2 (30m ³)	≤ 64	39	✓**

**The highlighted test represents a deviation from ADE B2.13 and B2.14 meaning that the reported test result will not represent the true impact performance of the floor without the soft covering.

- 4.3 As identified in Tables 4.1 and 4.2, all walls and floors tested comply with the requirements of ADE.
- 4.4 On the instruction of the Client the impact tests were carried out with soft coverings in place as these could not be removed. It should be noted that impact tests on floors with soft coverings such as carpet or vinyl represents a deviation from Approved Document E, which says that soft coverings should be removed.
- 4.5 The reported test results will not represent the true impact performance of the floor without the soft covering so this should be brought to the attention of the Client and the Building Control Officer.

- 4.6 The results of the sound insulation testing have been registered with the ANC, using their online verification system ADvANCE, and details of the task number and login password are provided in Appendix A. The test certificates for the airborne and impact sound insulation tests are shown in Appendices B and C, respectively.

APPENDIX A – Notice to Building Control Officer



Notice to Building Control Officer

Certification of Test Results

ANC operates an online, secure, paperless certification system for sound insulation tests.

The online verification (certification) system means that Building Control Bodies will need to follow the steps below to verify the results quoted in the relevant test report:

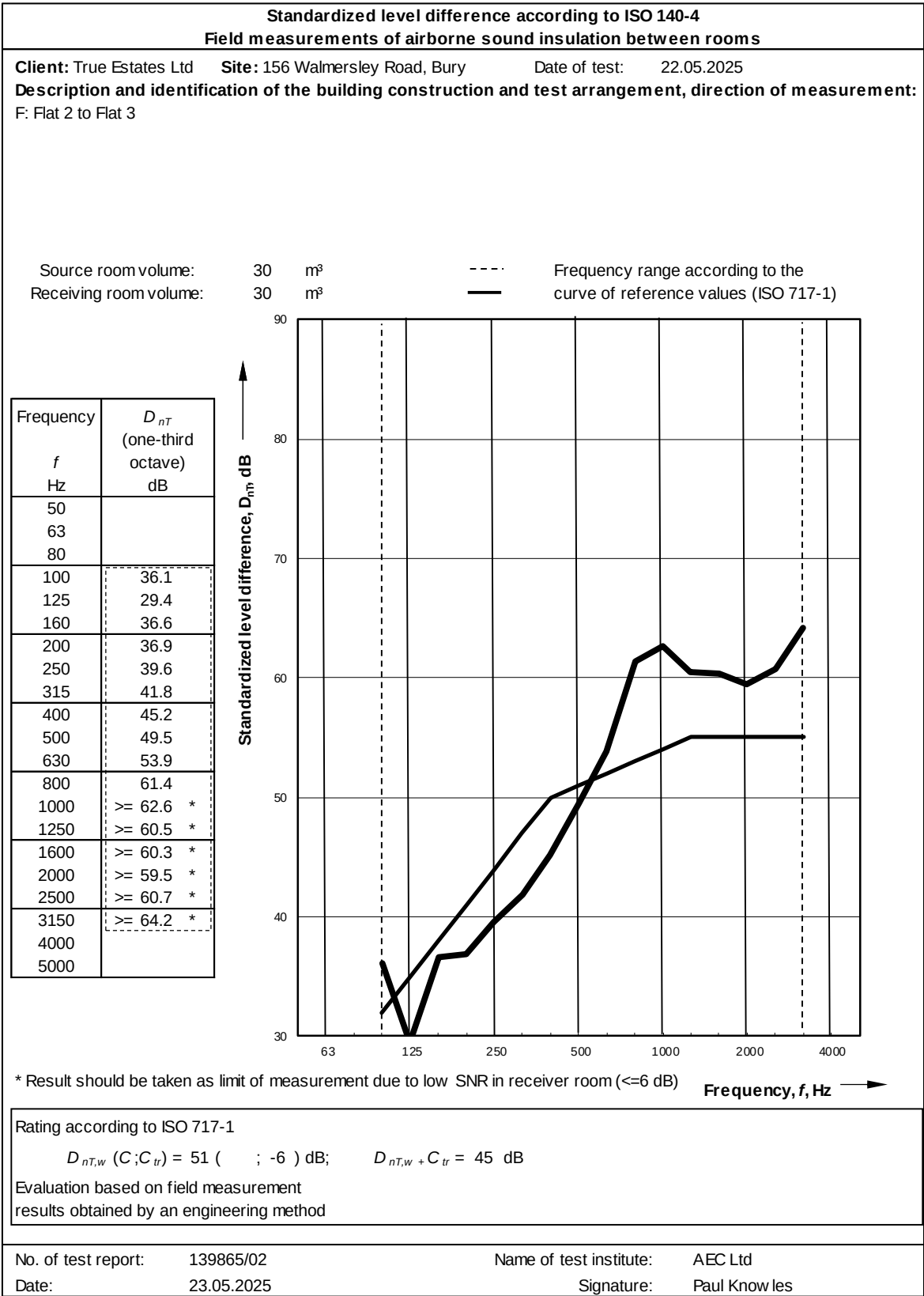
1. Go to the ANC secure server at www.theanc.co.uk
2. Navigate to the [ADvANCE](#) page which links to the ANC site available for use by BCOs.
3. Enter the following in the spaces provided:

Task Number: **139865**
Task Password: **LY9CZ9**

4. Select role "Building Control Officer" and press "Login"
5. You will then see a summary list of results of all the Tests undertaken to date for this project (Task) as held on the secure primary server and you can print this table for your records.

APPENDIX B – Airborne Test Certificates

Standardized level difference according to ISO 140-4 Field measurements of airborne sound insulation between rooms																																														
Client: True Estates Ltd Site: 156 Walmersley Road, Bury Date of test: 22.05.2025		Description and identification of the building construction and test arrangement, direction of measurement: W: Flat 2 to Flat 1																																												
Source room volume: 30 m³ Receiving room volume: 30 m³		- - - - Frequency range according to the curve of reference values (ISO 717-1) ————																																												
<table border="1" style="width: 100%; border-collapse: collapse; text-align: center;"> <thead> <tr> <th style="padding: 5px;">Frequency <i>f</i> Hz</th> <th style="padding: 5px;"><i>D_{nT}</i> (one-third octave) dB</th> </tr> </thead> <tbody> <tr><td>50</td><td></td></tr> <tr><td>63</td><td></td></tr> <tr><td>80</td><td></td></tr> <tr><td>100</td><td>46.1</td></tr> <tr><td>125</td><td>34.5</td></tr> <tr><td>160</td><td>38.4</td></tr> <tr><td>200</td><td>40.8</td></tr> <tr><td>250</td><td>40.3</td></tr> <tr><td>315</td><td>42.4</td></tr> <tr><td>400</td><td>46.9</td></tr> <tr><td>500</td><td>49.2</td></tr> <tr><td>630</td><td>50.1</td></tr> <tr><td>800</td><td>52.9</td></tr> <tr><td>1000</td><td>>= 51.5 *</td></tr> <tr><td>1250</td><td>>= 52.4 *</td></tr> <tr><td>1600</td><td>>= 50.4 *</td></tr> <tr><td>2000</td><td>48.7</td></tr> <tr><td>2500</td><td>49.4</td></tr> <tr><td>3150</td><td>>= 54.2 *</td></tr> <tr><td>4000</td><td></td></tr> <tr><td>5000</td><td></td></tr> </tbody> </table>	Frequency <i>f</i> Hz	<i>D_{nT}</i> (one-third octave) dB	50		63		80		100	46.1	125	34.5	160	38.4	200	40.8	250	40.3	315	42.4	400	46.9	500	49.2	630	50.1	800	52.9	1000	>= 51.5 *	1250	>= 52.4 *	1600	>= 50.4 *	2000	48.7	2500	49.4	3150	>= 54.2 *	4000		5000		↑ Standardized level difference, <i>D_{nT}</i> , dB	
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No. of test report: 139865/01 Date: 23.05.2025		Name of test institute: AEC Ltd Signature: Paul Knowles																																												



APPENDIX C – Impact Test Certificates

Standardized impact sound pressure levels according to ISO 140-7																																													
Field measurements of impact sound insulation of floors																																													
Bury Description and identification of the building construction and test arrangement: Flat 3 to Flat 2	Date of test: 22.05.2025																																												
Receiving room volume: 30 m³ Frequency range according to the curve of reference values (ISO 717-2)																																													
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