

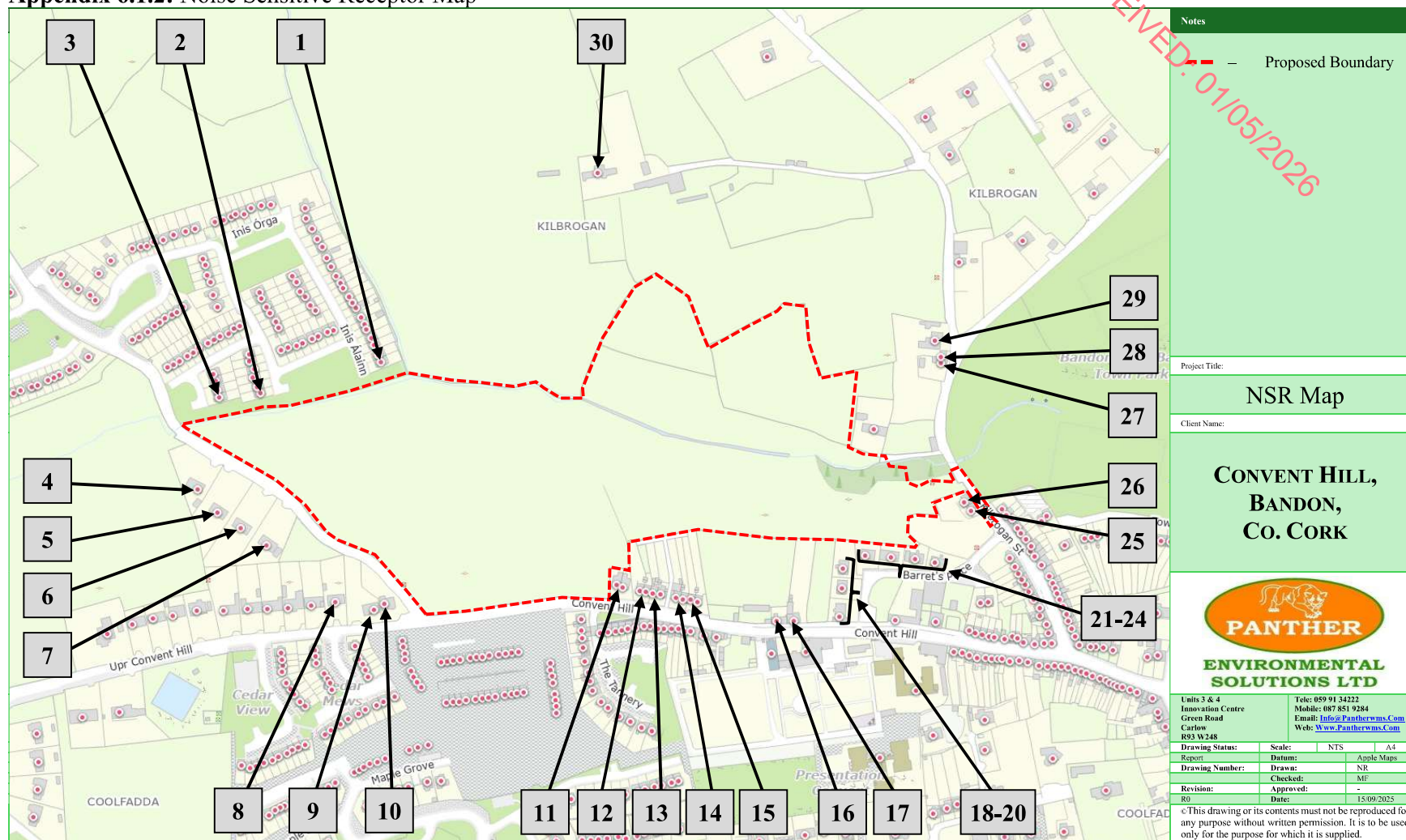
RECEIVED: 01/05/2026

APPENDIX 6.1
- SITE MAPS -

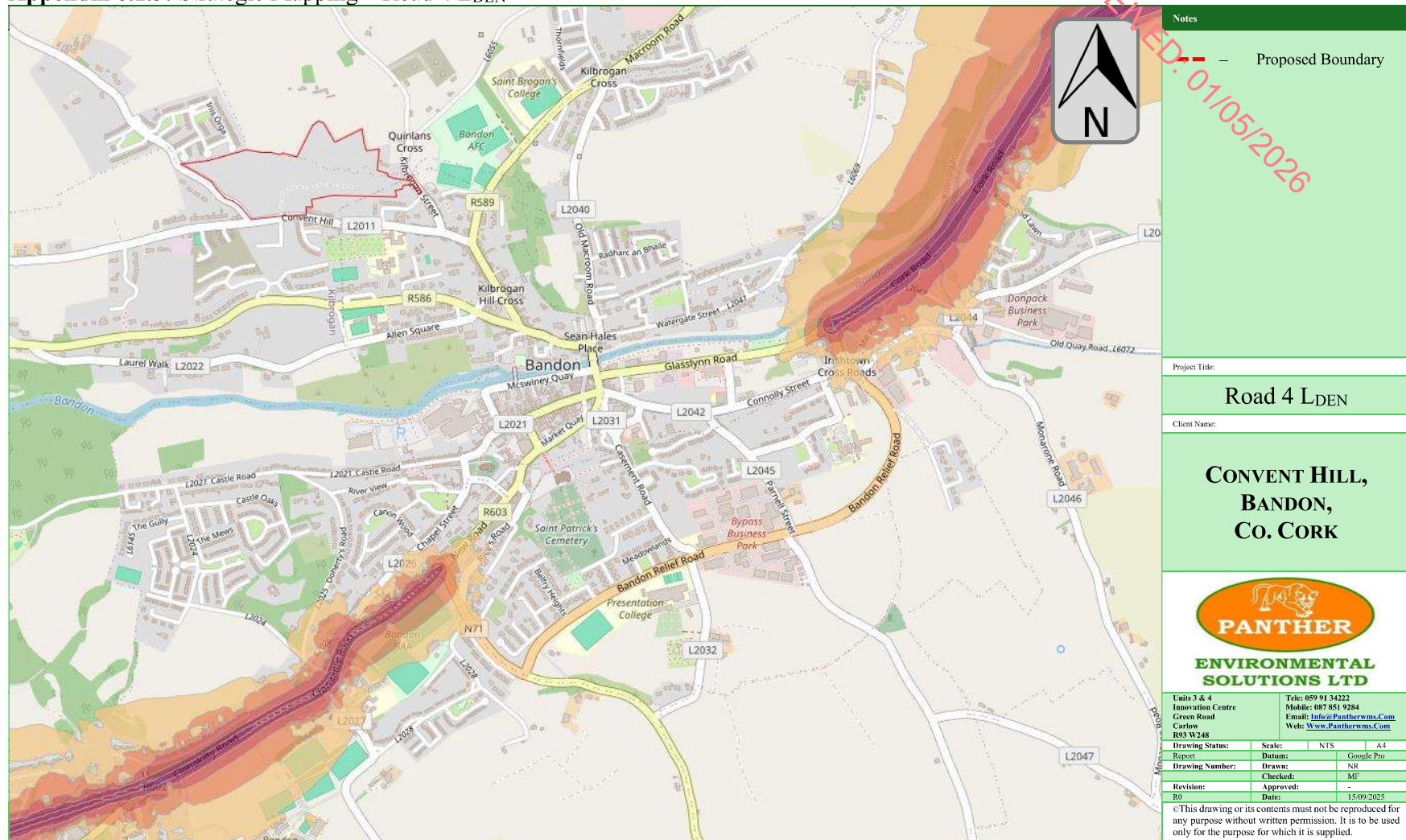
Appendix 6.1.1: Baseline Noise Monitoring Locations Map



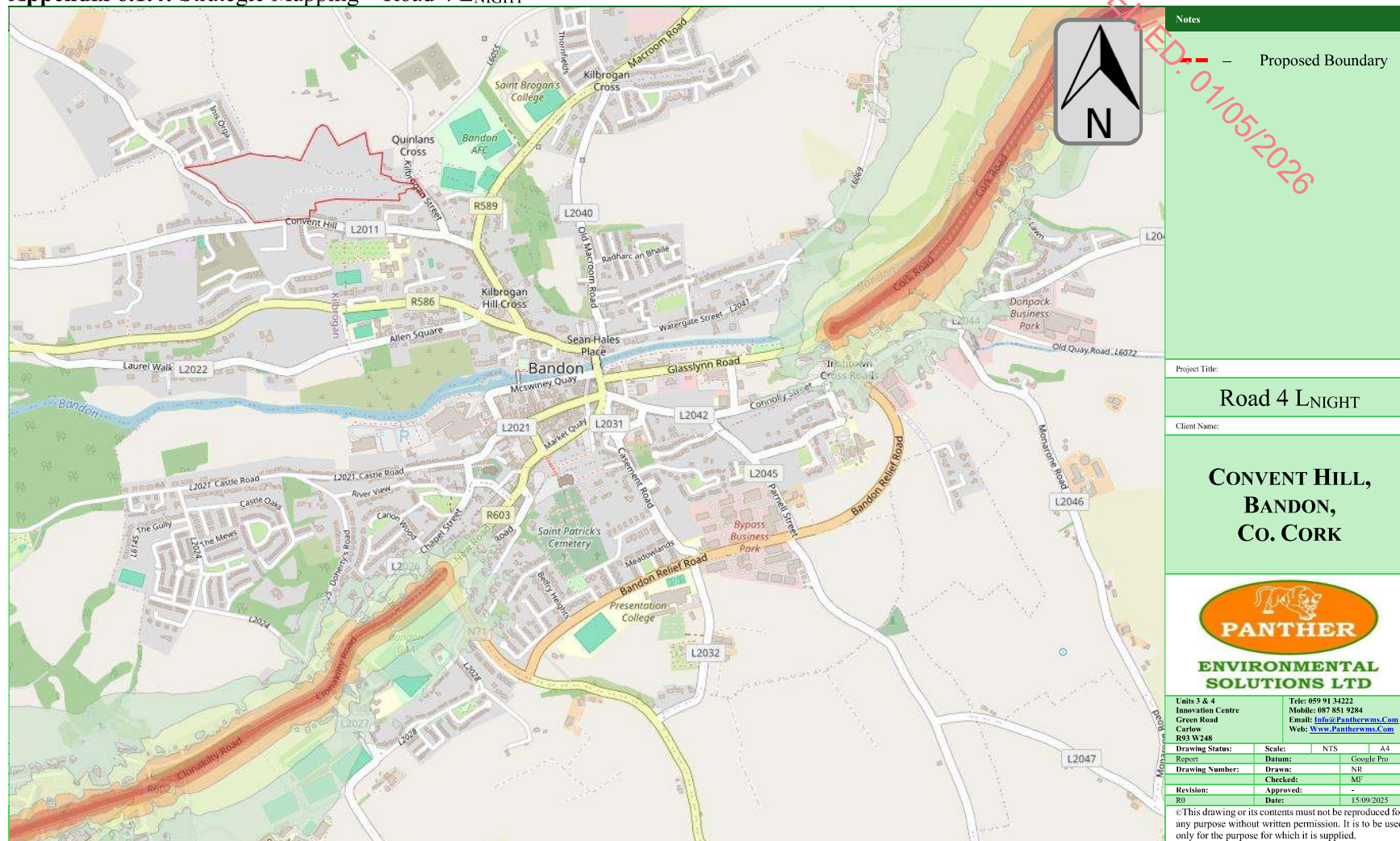
Appendix 6.1.2: Noise Sensitive Receptor Map



Appendix 6.1.3: Strategic Mapping – Road 4 L_{den}



Appendix 6.1.4: Strategic Mapping – Road 4 L_{NIGHT}



RECEIVED: 01/05/2026

APPENDIX 6.2

- NOISE METER CALIBRATION CERTIFICATE -

RECEIVED: 01/05/2026

CERTIFICATE OF CALIBRATION

ISSUED BY

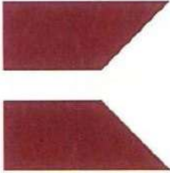
Cirrus Research plc

DATE OF ISSUE

23 December 2024

CERTIFICATE NUMBER

229391



Cirrus Research plc

Acoustic House

Bridlington Road

Hunmanby

North Yorkshire

YO14 0PH

United Kingdom

Page 1 of 2

Approved signatory

M.Berry

Electronically signed:



Sound Level Meter : IEC 61672-3:2013

Instrument information

Manufacturer:	Cirrus Research plc	Notes:
Model:	CR-171B	
Serial number:	G071199	
Class:	1	
Firmware version:	3.3.3386	

Test summary

Date of calibration: 20 December 2024

The calibration was performed respecting the requirements of ISO/IEC 17025:2017.
Periodic tests were performed in accordance with procedures from IEC 61672-3:2013.

The sound level meter submitted for testing successfully completed the class 1 periodic tests of IEC 61672-3:2013, for the environmental conditions under which the tests were performed.

However, no general statement or conclusion can be made about conformance of the sound level meter to the full specifications of IEC 61672-1:2013 because (a) evidence was not publicly available, from an independent testing organisation responsible for pattern approvals, to determine that the model of sound level meter fully conformed to the class 1 specifications in IEC 61672-1:2013 or correction data for acoustical test of frequency weighting were not provided in the Instruction Manual and (b) because the periodic tests of IEC 61672-3:2013 cover only a limited subset of the specifications in IEC 61672-1:2013.

Notes

This certificate provides traceability of measurement to the SI system of units and/or to units of measurement realised at the National Physical Laboratory or other recognised national metrology institutes. This certificate may not be reproduced other than in full, except with the prior written approval of the issuing laboratory. The results within this certificate relate only to the items calibrated. The reported expanded uncertainty is based on a standard uncertainty multiplied by a coverage factor k=2, providing a coverage probability of approximately 95%.

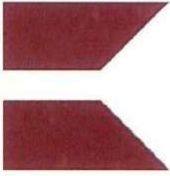
CERTIFICATE OF CALIBRATION

ISSUED BY

Cirrus Research plc

DATE OF ISSUE

11 December 2024 CERTIFICATE NUMBER 229393



Cirrus Research plc
Acoustic House
Bridlington Road
Hummanby
North Yorkshire
YO14 0PH
United Kingdom

Page 1 of 2

Test engineer:

S.Hall

Electronically signed:



Microphone

Microphone capsule

Manufacturer: Cirrus Research plc

Model: MK:224

Serial Number: 218239K

Calibration procedure

Date of calibration: 11 December 2024

Open circuit: 39.4 mV/Pa

Sensitivity at 1 kHz: -28.1 dB rel 1 V/Pa

The microphone capsule detailed above has been calibrated to the published data as described in the operating manual of the associated sound level meter (where applicable).

The frequency response was measured using an electrostatic actuator in accordance with BS EN 61094-6:2005 with the free-field response derived via standard correction data traceable to a National Measurement Institute.

The absolute sensitivity at 1 kHz was measured using an acoustic calibrator conforming to IEC 60942:2003 Class 1.

Environmental conditions

Pressure: 102.70 kPa

Temperature: 21.0 °C

Humidity: 34.0 %

RECEIVED: 01/05/2026

CERTIFICATE OF CALIBRATION

ISSUED BY

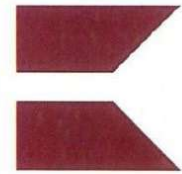
Cirrus Research plc

DATE OF ISSUE

20 December 2024

CERTIFICATE NUMBER

229387



Cirrus Research plc

Acoustic House

Bridlington Road

Hummanby

North Yorkshire

YO14 0PH

United Kingdom

Page 1 of 2

Approved signatory

R. Woodall

Electronically signed:

Sound Calibrator : IEC 60942:2003

Instrument information

Manufacturer:	Cirrus Research plc	Notes:
Model:	CR:515	
Serial number:	54060	
Class:	1	

Test summary

Date of calibration: 20 December 2024

The sound calibrator detailed above has been calibrated to the published data as described in the operating manual and in the half-inch configuration. The procedures and techniques used are as described in IEC60942, 2003 Annex B – Periodic Tests and three determinations of the sound pressure level, frequency and total distortion were made.

The sound pressure level was measured using a WS2F condenser microphone type MK:224 manufactured by Cirrus Research plc.

The results have been corrected to the reference pressure of 101.33 kPa using the manufacturer's data.

As public evidence was available, from a testing organisation responsible for approving the results of pattern evaluation tests, to demonstrate that the model of sound calibrator fully conformed to the requirements for pattern evaluation described in Annex A of IEC 60942:2003, the sound calibrator tested is considered to conform to all the Class 1 requirements of IEC 60942:2003.

The manufacturer's product information indicates that this model of sound calibrator has been formally pattern approved to IEC60942_2003 Annex A to Class 1. This has been confirmed by Laboratoire National d'Essais (LNE), Physikalisch-Technische Bundesanstalt (PTB) and APPLUS (APPLUS).

Notes:

This certificate provides traceability of measurement to the SI system of units and/or to units of measurement realised at the National Physical Laboratory or other recognised national metrology institutes. This certificate may not be reproduced other than in full, except with the prior written approval of the issuing laboratory. The results within this certificate relate only to the items calibrated. The reported expanded uncertainty is based on a standard uncertainty multiplied by a coverage factor k=2, providing a coverage probability of approximately 95%.

RECEIVED: 01/05/2026

APPENDIX 6.3

- BS 5228 – SOUND LEVEL DATA TABLE -

Table C.2 Sound level data on site preparation

Ref no.	Equipment	Power rating, kW	Equipment size, weight (mass), capacity	Octave band sound pressure levels at 10 m, Hz								A-weighted sound pressure level, $L_{Aeq,T}$ dB at 10 m	
				63	125	250	500	1k	2k	4k	8k		
Clearing site													
1	Dozer ж	142	20 t	79	77	76	74	68	67	60	59	75 ж	
8	Wheeled backhoe loader	62	8 t	74	66	64	64	63	60	59	50	68	
Loading lorries													
28	Wheeled loader	170	—	86	82	77	74	70	66	62	55	76	
Distribution of material													
34	Lorry ж	—	4-axle wagon	73	78	78	78	74	73	68	66	80 ж	
35	Telescopic handler	60	10 t	85	79	69	67	64	62	56	47	71	
Rolling and compaction													
37	Roller (rolling fill) ж	145	18 t	72	75	81	78	74	70	63	55	79 ж	

BS 5228-1:2009+A1:2014

BRITISH STANDARD

Table C.4 Sound level data on general site activities

Ref no.	Equipment	Power rating, kW	Equipment size, weight (mass), capacity	Octave band sound pressure levels at 10 m, Hz								A-weighted sound pressure level, $L_{Aeq, T}$ dB at 10 m
				63	125	250	500	1k	2k	4k	8k	
Distribution of materials												
3	Dumper ж	81	7 t	84	81	74	73	72	68	61	53	76 ж
Mixing concrete												
18	Cement mixer truck (discharging)	—	—	80	69	66	70	71	69	64	58	75
23	Small cement mixer	2	—	61	65	58	58	57	53	51	49	61

BS 5228-1:2009+A1:2014

BRITISH STANDARD

Table C.5 Sound level data on road construction works (*continued*)

Ref no.	Equipment	Power rating, kW	Equipment size, weight (mass), capacity	Octave band sound pressure levels at 10 m, Hz								A-weighted sound pressure level, $L_{Aeq, 10m}$ dB at 10 m
				63	125	250	500	1k	2k	4k	8k	
Rolling and compaction												
20	Vibratory roller	98	8.9 t	90	82	73	72	70	65	59	54	75
Paving												
30	Asphalt paver (+ tipper lorry)	112	12 t hopper	78	77	72	72	71	69	62	56	75

BS 5228-1:2009+A1:2014

BRITISH STANDARD

RECEIVED: 01/05/2026

APPENDIX 6.4

- MITSUBISHI: HEAT PUMP DATASHEET -

Heating Product Information

PUZ-WM112VAA(-BS)

Ecodan R32

Monobloc Air Source Heat Pump



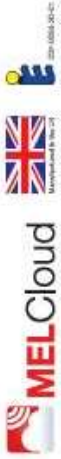
R32

Key Features:

- A+++ high efficiency system
- Ultra quiet noise levels
- Maintains full heating capacity at low temperatures
- Zero carbon solution
- MELCloud enabled

Key Benefits:

- Ultra low running cost
- Flexible product placement
- Confident and quick product selection
- Help to tackle the climate crisis
- Remote control, monitoring, maintenance and technical support



ecodan.co.uk

RECEIVED: 01/05/2026

APPENDIX 6.5

- PHOTO LOG -



Figure 6.1: Monitoring Location NM1



Figure 6.2: Monitoring Location NM2



Figure 6.3: Monitoring Location NM3



Figure 6.4: Monitoring Location NM4



Figure 6.5: Monitoring Location NM5



Figure 6.6: Monitoring Location NM6



Figure 6.7: Monitoring Location NM7

RECEIVED: 01/05/2026

APPENDIX 6.6

- IOA CERTIFICATE OF MEMBERSHIP -

Certificate of Membership

This is to certify that

Mr Nial Ryan

has been elected as a

Technician Member

of the
Institute of Acoustics

*Given under the seal of the Institute
in accordance with the
Articles of Association and By-Laws*

President

David Wallington

Institute Secretary

M. J. D.

Valid Until

28-02-2026

Membership Number

51564

The certificate remains the property of the Institute and shall be returned to the Institute on demand. Membership of the Institute is subject to annual renewal

The Institute of Acoustics Limited, Silbury Court, 406 Silbury Boulevard, Milton Keynes MK9 2AF
T: +44 (0)300 999 9675 E: info@ioa.org.uk W: ioa.org.uk

Limited by Guarantee and Registered in England No. 1157249 Registered Charity No. 267026

