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Planning Noise Assessment

Prepared: 26th May 2021

Report No	21481-1 – R2
Client	MCS Primary Projects
Site	Saville Street Thurlstone, Sheffield S36 9QU

noise.co.uk

1. Quality Management

Report Number	21481 - 1
Issue	Revision 2
Prepared	26 th May 2021
Prepared By	Rohan Ramadorai BEng, MSc, MIOA
Authorised By	Bill Whitfield PhD, MSc, MIOA

2. Limitations

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3. Executive Summary

3.1.1. An environmental noise assessment has been carried out for a proposed commercial development at Saville Street, Thurlstone, Sheffield, S36 9QU ("Proposed Development").

3.2. Measurement, Assessment and Evaluation

3.2.1. No survey was carried out for this project as it was undertaken as a desktop assessment. However, reference has been made to an environmental noise report¹ that formed part of the original planning submission.

3.2.2. The interpretation of the data and the specification of suitable mitigation or treatment are outside the scope of our UKAS accreditation but is covered in our 17025 Quality Management System and reporting procedure.

3.3. Scope

- 3.3.1. This report covers all aspects of the noise survey, including:
- the identification of acoustic design criteria;
 - analysis of the data presented in E2 consultants' report;
 - the design of any mitigation to meet the required noise criteria

3.4. Results Summary

3.4.1. Based on the information provided and the modelling undertaken, it is clear that the current proposals are likely to meet the Local Authority requirements of not exceeding 46dB $L_{Aeq,1h}$ during the operation of the new facility.

¹ E2 Consultants report – 'Environmental Noise Survey - 7580-3 - Phoenix Works, Thurlstone, S36 9QU'

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5. Background

5.1. Noise Policy Statement for England

- 5.1.1. The Noise Policy Statement for England (NPSE), published in March 2010, states the long-term vision of Government noise policy is to *“promote good health and a good quality of life through the effective management of noise within the context of Government policy on sustainable development”*.
- 5.1.2. This long-term vision is supported by the following aims; through the effective management and control of environmental, neighbour and neighbourhood noise within the context of Government policy on sustainable development:
- Avoid significant adverse impacts on health and quality of life;
 - Mitigate and minimise adverse impacts on health and quality of life;
 - Where possible, contribute to the improvement of health and quality of life.
- 5.1.3. The intention is that the NPSE should apply to all types of noise apart from noise in the workplace (occupational noise).

5.2. National Planning Policy Framework

- 5.2.1. The National Planning Policy Framework (NPPF) was published on 19th June 2019 and sets out the Government’s planning policies for England and how these are expected to be applied. The framework states that the planning system should contribute to and enhance the natural and local environment by:
- “preventing both new and existing development from contributing to or being put at unacceptable risk from, or being adversely affected by unacceptable levels of soil, air, water or noise pollution or land instability”*.
- 5.2.2. The NPPF requires that new developments be appropriate to their locations such that the effects of pollution on health have been taken into account. Planning policies and decisions should aim to:
1. avoid noise giving rise to significant adverse impacts on health and the quality of life;
 2. mitigate and reduce to a minimum potential adverse impacts resulting from noise from new development; and,
 3. identify and protect tranquil areas which have remained relatively undisturbed by noise and are prized for their recreational and amenity value.
- 5.2.3. Existing businesses near to proposed development should not have unreasonable restrictions placed on them as a result of development permitted after they were established. Where the operation of an existing business or community facility could have a significant adverse effect on new development (including changes of use) in its vicinity, the applicant (or ‘agent of change’) should be required to provide suitable mitigation before the development has been completed.

5.3. National Planning Practice Guidance

- 5.3.1. The National Planning Practice Guidance (PPG) is a web-based resource, launched by the Department for Communities and Local Government (DCLG) which was updated on the 22nd July 2019 to reflect the changes made to the NPPF and make it more accessible.²

² <http://planningguidance.communities.gov.uk/>

- 5.3.2. It advises on how planning can manage potential noise impacts in new development. The guidance is regularly reviewed and updated and noise is listed as a specific category. A summary of the effects of noise exposure (in terms of health and quality of life) associated with both noise generating developments and noise sensitive developments is presented within the PPG and reproduced in Table 1.

Perception	Examples of outcomes	Effect level	Action
Not noticeable	No effect	No observed effect	No specific measures required
Noticeable and not intrusive	Noise can be heard, but does not cause any change in behaviour or attitude. Can slightly affect the acoustic character of the area but not such that there is a perceived change in the quality of life.	No Observed Adverse Effect (NOAEL)	No specific measures required
Lowest Observed Adverse Effect Level (LOAEL)			
Noticeable and intrusive	Noise can be heard and causes small changes in behaviour and/or attitude, e.g. turning up volume of television; speaking more loudly; where there is no alternative ventilation, having to close windows for some of the time because of the noise. Potential for some reported sleep disturbance. Affects the acoustic character of the area such that there is a perceived change in the quality of life.	Observed Adverse Effect	Mitigate and reduce to a minimum
Significant Observed Adverse Effect Level (SOAEL)			
Noticeable and disruptive	The noise causes a material change in behaviour and/or attitude, e.g. avoiding certain activities during periods of intrusion; where there is no alternative ventilation, having to keep windows closed most of the time because of the noise. Potential for sleep disturbance resulting in difficulty in getting to sleep, premature awakening and difficulty in getting back to sleep. Quality of life diminished due to change in acoustic character of the area.	Significant Observed Adverse Effect	Avoid
Noticeable and very intrusive	Extensive and regular changes in behaviour and/or an inability to mitigate effect of noise leading to psychological stress or physiological effects, e.g. regular sleep deprivation/awakening; loss of appetite, significant, medically definable harm, e.g. auditory and non-auditory	Unacceptable Adverse Effect	Prevent

Table 1 – Noise exposure hierarchy

- 5.3.3. There are a number of factors that determine whether a noise could be a concern to a receptor. These include: the absolute level of the noise and when it occurs, whether it is existing or new to the area, temporal characteristics, spectral content and the acoustic absorption in the area.
- 5.3.4. It is emphasised in the PPG that the planning process should be used to mitigate and minimise the impact of noise. This could include: engineering the noise sources to be quiet, minimising the impact of noise through layout, using conditions/obligations to restrict activities, mitigating the impact in places where noise is likely to be experienced (e.g. using facade sound insulation).

6. Introduction

6.1.1. An environmental noise survey has been carried out for a proposed commercial development at Saville Street, Thurlstone, Sheffield, S36 9QU.

6.2. Proposed Development

6.2.1. An image showing the proposed location and layout of the Proposed Development is given in Figure 1.



Figure 1 - Plan showing the layout of the Proposed Development

6.3. Noise Climate

6.3.1. While no noise survey or site visit has been carried out by noise.co.uk Ltd., details of a noise survey have been presented in E2 Consultants' report that formed part of the original planning submission. The following description has been taken from Pg 5 of the report:

The main sources of noise on site are from the existing industrial units, road traffic noise from the main road at the top of the hill and site vehicles moving materials between buildings.

7. Assessment Criteria

7.1. Local Planning Authority Criteria

7.1.1. Planning permission has been granted³ for the building of the new commercial unit at Saville Lane. The local planning authority has provided specific noise-related planning requirements for the Proposed Development. The noise-related requirements have been reproduced in Figure 2.

- 8 The level of noise emitted from the building shall not exceed 46 dB at any time, as measured on the boundaries with residential properties in Mill Lane, Saville Street and Manchester Road.
Reason: In the interests of the amenities of local residents and in accordance with Core Strategy Policy CSP 40.

Figure 2 – Noise related planning requirements provided by the local planning authority

7.1.2. Clarification has since been received with respect to the criteria of 46 dB to imply 46dB L_{Aeq,1h}. The full email correspondence has been attached to the appendix.

³ Barnsley Metropolitan Borough Council Application number 2017/1679

8. Building Envelope Proposals

8.1. External Cladding

- 8.1.1. The new building is understood to be metal frame building with blockwork and lightweight cladding on the elevations and a lightweight roof with rooflights. The following Figure 3 sets out the elevations as per the proposals:

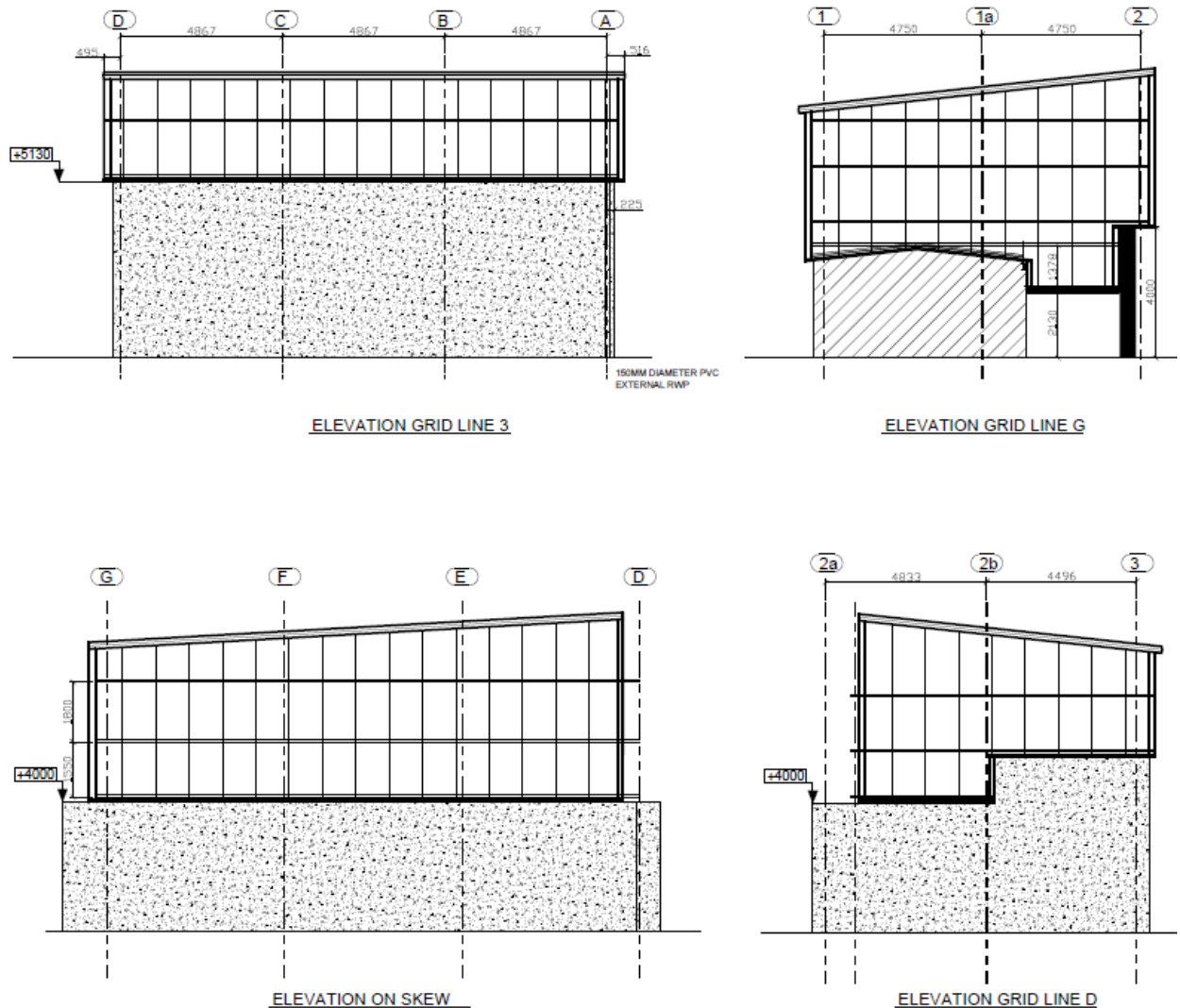


Figure 3 – Elevations of proposed building

- 8.1.2. In addition, the building is to be built into the side of a hill, therefore requiring a substantial retaining wall. The details of the retaining walls are set out in Figure 4 below:

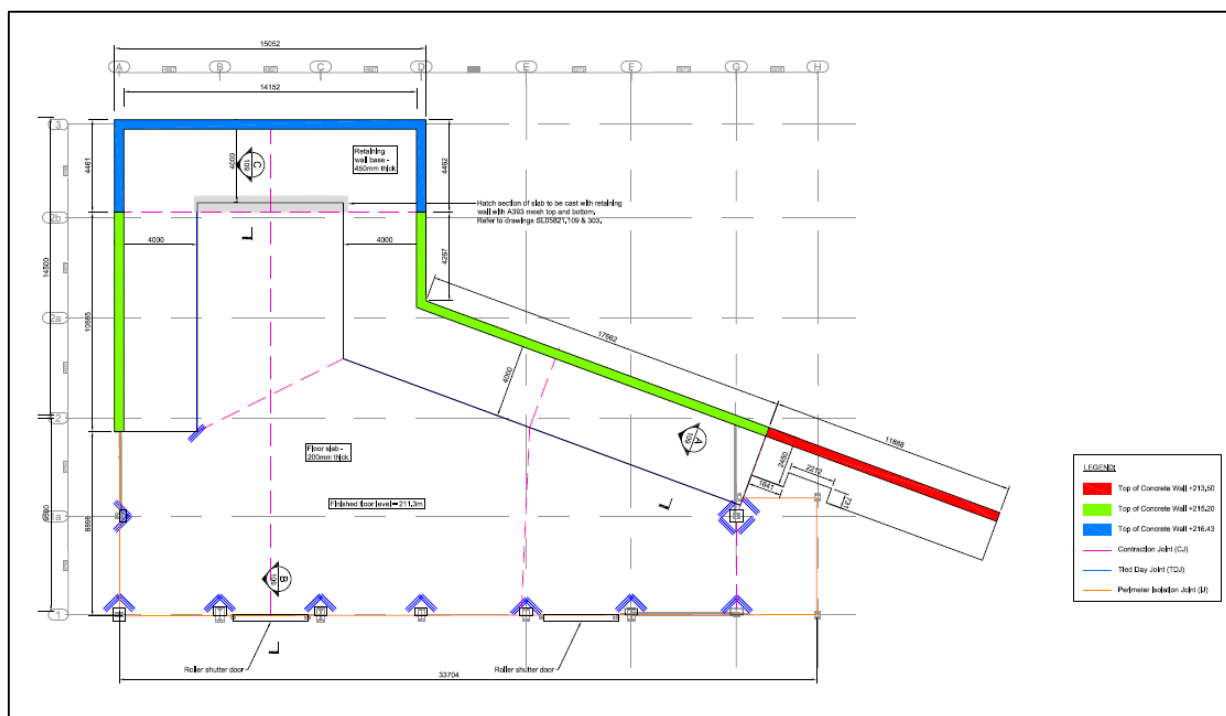


Figure 4 – retaining wall extent along the north of the building

- 8.1.3. In order to ascertain the overall breakout performance of the building, the sound insulation performance of the walls and roof have been modelled.
- 8.1.4. The blockwork is a standard 100mm medium dense block (nominal 1400kg/m^3) with a lightweight cladding on the outside. A description of the cladding to be used is set out below in Figure 5:

TWIN SKIN WALL CLADDING SPECIFICATION

EUROCLAD MW5C - 1000 - WALL PROFILE OUTER SHEETS, 0.7mm THICK STEEL PRISMA COATED COLOUR ALASKA GREY - NEAREST RAL 7000 FIXED VERTICALLY WITH 150mm END LAPS AND SINGLE CORRUGATION SIDE LAPS ALL FIXED AND SEALED TO THE CLADDING MANUFACTURERS RECOMMENDATIONS. SHEETS FIXED TO 180mm DEEP QUATTRO SPACER SYSTEM FIXED THROUGH THE INNER LINER SKIN INTO THE HORIZONTAL SHEETING RAILS. ALL OUTER AND INNER FIXINGS WILL BE STANDARD CARBON STEEL. EUROCLAD 19 - 1000 PROFILED INNER LINER SHEET, 0.4mm THICK STEEL WITH A BRIGHT WHITE ENAMEL COATING TO THE INNER FACE. INNER LINER SHEETS FIXED WITH 60mm END LAPS AND SINGLE CORRUGATION SIDE LAPS ALL FIXED TO THE CLADDING MANUFACTURERS RECOMMENDATIONS AND SEALED TO PROVIDE A VAPOUR BARRIER. CAVITY BETWEEN OUTER WALL SHEETS AND INNER LINER SHEET FILLED WITH 180mm THICK FIBREGLASS INSULATION WITH A LAMBDA VALUE OF 0.04 TO ACHIEVE A $0.26\text{ W/m}^2\text{K}$ U VALUE. THE ABOVE WALL CONSTRUCTION WILL ACHIEVE 15MIN INSULATION AND 120MM INTERGRITY IN A FIREWALL SITUATION PLEASE NOTE THE ABOVE WALL SPECIFICATION WILL ACHIEVE A WEIGHTED $S_{ri} >$ IN THE REGION OF 41dB.

Figure 5 – Cladding specification currently proposed

- 8.1.5. Using the above specification, a sound insulation calculation was undertaken using a proprietary computer modelling software (INSUL V8). The following Figure 6 sets out the results of the modelled construction.

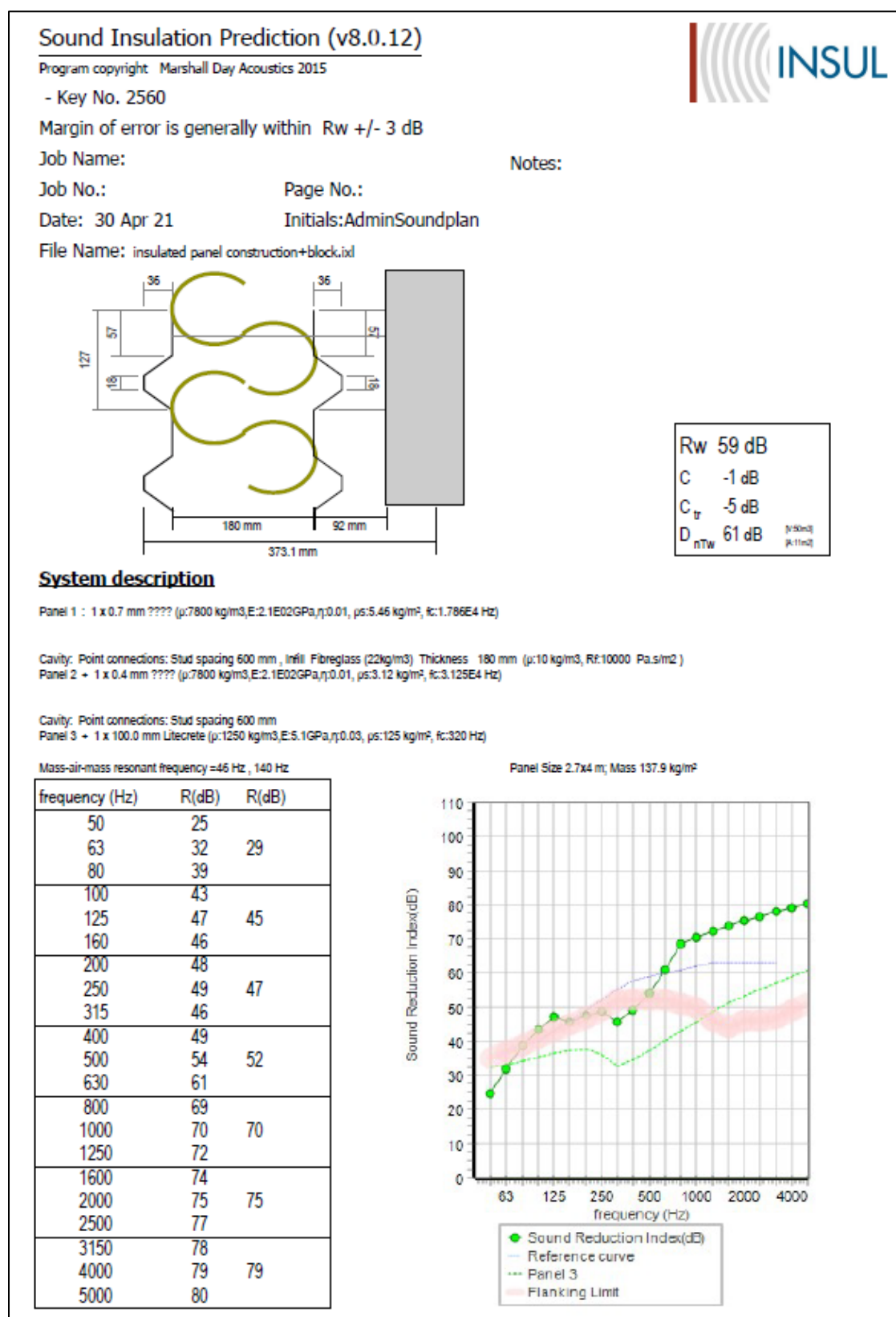


Figure 6 – Insul calculation of sound insulation performance of proposed cladding

- 8.1.6. The roof details as provided are set out in Figure 7 below:

ROOF SPECIFICATION

EUROCLAD 32/1000F - ROOF PROFILE OUTER SHEETS, 0.7mm THICK STEEL C200 LG COATED COLOUR GOOSEWING GREY - NEAREST B.S 10A05. SHEETS FIXED WITH 150MM END LAPS AND SINGLE CORRUGATION SIDE LAPS ALL FIXED AND SEALED TO THE CLADDING MANUFACTURERS RECOMMENDATIONS.

SHEETS FIXED TO 260mm DEEP QUATTRO SPACER SYSTEM FIXED THROUGH THE INNER LINER SKIN INTO THE ROOF PURLINS.

EUROCLAD MW5 - 1000 PROFILED INNER LINER SHEET, 0.7mm THICK STEEL WITH A BRIGHT WHITE ENAMEL COATING TO THE INNER FACE.

INNER LINER SHEETS FIXED WITH 60MM END LAPS AND SINGLE CORRUGATION SIDE LAPS ALL FIXED TO THE CLADDING MANUFACTURERS RECOMMENDATIONS AND SEALED TO PROVIDE A VAPOUR BARRIER.

CAVITY BETWEEN OUTER ROOF SHEETS AND INNER LINER SHEET FILLED WITH 120mm + 140mm THICK FIBREGLASS INSULATION WITH A LAMBDA VALUE OF 0.04. ALL TO PROVIDE A U/VALUE OF 0.18 W/M2K.

AND 2No LAYERS OF 2.6MM THICK 5KG.M2 ACOUSTIC MEMBRANE TO ACHIEVE A WEIGHTED $S_{ri} >$ IN THE REGION OF 53Db.

APPROX 15% OF THE ROOF AREA (INDICATED HATCHED) FIXED AS BRETT MARTINS TRIPLE SKIN GRP SITE ASSEMBLED TRANSLUCENTS. OUTERS SAB CLASS 3 (1.83kg/m) WITH INNERS SAA CLASS 1 (3.00kg/m) BOTH TO MATCH THE PROFILES OF THE OUTER ROOF SHEET AND INNER LINER TRAYS WITH A 10mm THICK FLAT CLEAR THERM POLYCARBONATE INTERMEDIATE LAYER LAID ON TOP OF INNER LIGHT PROFILES SECURED WITH 1 RUN OF 6mm X 5mm BUTYL MASTIC STRIP TO SIDE CORRUGATIONS.

OUTER LIGHTS SEALED WITH 3 RUNS OF 6MM X 5MM MASTIC TO END LAPS AND 1 RUN OF 6mm X 5mm TO SIDE LAPS WITH INNER LINER SKIN SEALED AS PER ROOF LINER TO CONTINUE VAPOUR SEAL.

ALL ROOFLIGHTS FIXED STRICTLY IN ACCORDANCE TO BRETT MARTINS SPECIFICATION TO COMPLY WITH CDM AND HIGHLIGHTED ON THE ROOF WITH RED COLOUR HEADS TO THE PERIMETER FIXINGS.

WHEN FULLY FIXED THE ROOFLIGHTS ARE CLASSIFICATION B NON-FRAGILITY AND WILL ARREST A FALL IN AN EMERGENCY SITUATION ONLY. UNDER NO CIRCUMSTANCES MUST THE ROOFLIGHTS BE WALKED UPON.

PLEASE NOTE THE ABOVE ROOFLIGHT SYSTEM WILL ACHIEVE A WEIGHTED $S_{ri} >$ IN THE REGION OF 30dB . AND WILL PROVIDE A 1.30 W/M2K U VALUE.

Figure 7 – Roof specification and acoustic performance

8.1.7. The acoustic performance set out for the roof and roof lights have been included in the overall modelling.

9. 3D Noise Model

9.1. Noise Model

- 9.1.1. A 3D noise model has been constructed using SoundPLAN™ in order to predict the propagation of sound across the site of the Proposed Development. The calculation procedure has been used from ISO9613-2:1996⁴ to predict the propagation of sound from source to receiver, taking into account distance, screening, and atmospheric and ground conditions.
- 9.1.2. Ordinance Survey Open Data has been used to create the existing roads and buildings. Terrain data has been taken from BlueSky Mapping.

9.2. Source Data

- 9.2.1. In order to determine the noise levels within the building, archive data for a metal workshop from Soundplan V8.2⁵ have been used. These levels have been compared with the noise levels that were used within the original report presented by E2 consultants and was noted to be very similar.
- 9.2.2. The following Table 2 sets out the source noise level used within the model. Noise source was modelled as an area source covering the full floor area of the proposed building.

	Octave Band SPL (dB) @ octave band centre frequency (Hz)							
	63	125	250	500	1k	2k	4k	dB (A)
Lw	80.0	85.0	90.0	100.0	100.0	100.0	95.0	105

Table 2 – Source Noise levels

- 9.2.3. The internal absorption was set to be painted block to provide a reasonable worse case. Based on the above parameters, the model was run to generate a grid noise map and also single point calculations (at first floor level) at the nearest noise sensitive receiver.
- 9.2.4. The results of the model have been illustrated in noise contour maps in Figure 8.

⁴ ISO9613-2:1996 "Acoustics – Attenuation of Sound During Propagation Outdoors – Part 2: General Method of Calculation"

⁵ Noise Emission from Industrial Facilities, published by the Association of German Engineers VDI 2571 / General Noise Prediction Guideline, published by the Austrian Noise Control Association ÖAL 28

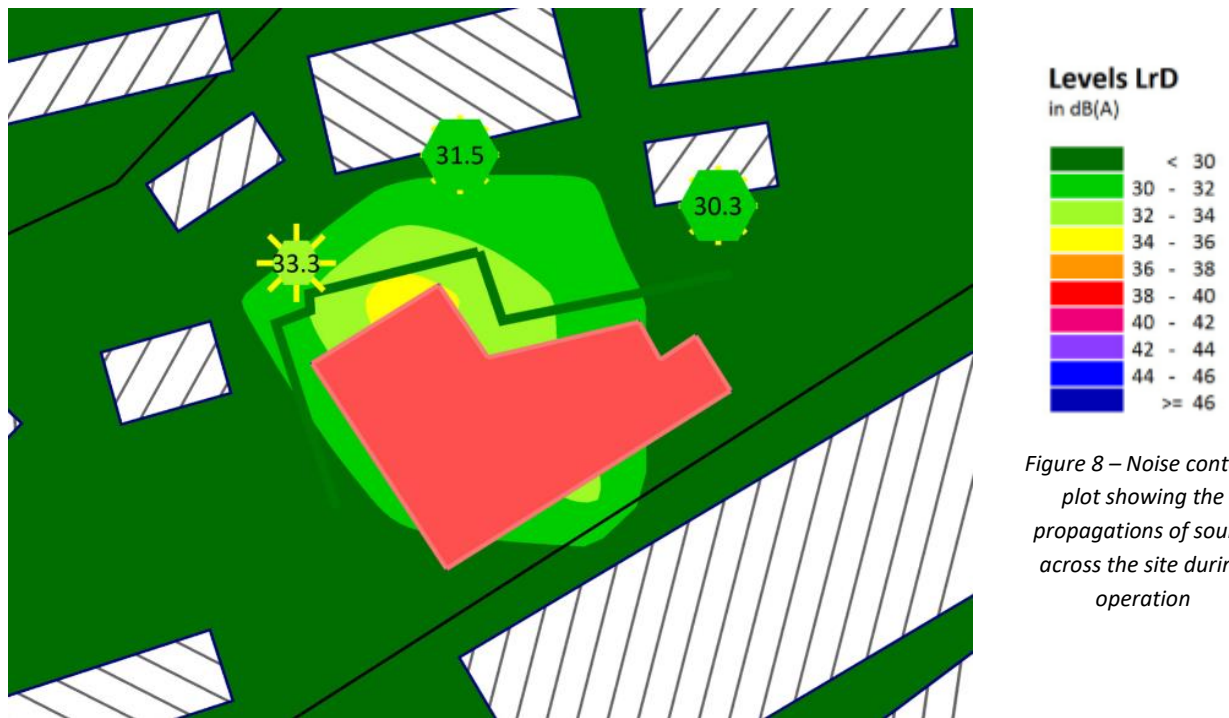


Figure 8 – Noise contour plot showing the propagations of sound across the site during operation

9.2.5. Based on the above, noise levels at the nearest noise sensitive receptors are calculated to be:

- 33.3 dB $L_{Aeq,1h}$ at the nearest garden
- 31.5 dB $L_{Aeq,1h}$ at the nearest receiver (first floor level)
- 30.3 dB $L_{Aeq,1h}$ at the next nearest receiver (first floor level)

9.2.6. Clearly these levels are well below the LPA criteria of 46dB $L_{Aeq,1h}$.

10. Conclusions

- 10.1.1. An planning noise assessment has been carried out at the site of a proposed commercial development at Saville Street, Thurlstone, Sheffield, S36 9QU to determine typical breakout sound levels during the operation of the proposed site.
- 10.1.2. The proposed building envelope and general arrangement including the retaining wall have been modelled to quantify the sound levels at the nearest noise sensitive receptor located to the north of the site.
- 10.1.3. Resultant levels indicate that with the current proposals, taking into account continuous working within the building, the local authority criteria of 46dB LAeq,1h is met at the nearest residential properties.
- 10.1.4. We strongly recommend that this report be passed to the local planning authority for approval prior to any works being carried out.

11. Appendix

APPENDIX A: Summary Information

Required ISO Test Report Information (cross referenced where required)			
		Measurements carried out to:	Analysed to:
A	Standards	BS 7445-1: 2003 BS 7445-2: 1991	LPA Guidelines
B	Organisation performed the measurements	noise.co.uk Ltd, The Haybarn, Newnham Grounds, Kings Newnham Lane, Bretford, Coventry, CV23 0JU.	
C	Name of Client	MCS Primary Projects	
D	Full site address	Saville Street Thurlstone, Sheffield S36 9QU	
E	Date of surveys	NA	
F	Description & identification of Proposed Development	It is proposed to develop the site for commercial use.	
G	Brief Description of details of Procedure & equipment	See Section 5 of this report.	

APPENDIX B: Clarification email received from EHO

Rohan Ramadorai

From: Andrew , Hannah (SENIOR PLANNING OFFICER)
<HannahAndrew@barnsley.gov.uk>
Sent: 12 April 2021 08:54
To: Bill Whitfield
Subject: FW: James Durrans - Acoustician Docs 1

Dr Bill Whitfield,

Please find below confirmation of the acoustic condition, this appears to be the result of a typo.

Apologies

Hannah

From: Cattell , Adam (ENVIRONMENTAL HEALTH OFFICER) <adamcattell@barnsley.gov.uk>
Sent: 12 April 2021 08:47
To: Andrew , Hannah (SENIOR PLANNING OFFICER) <HannahAndrew@barnsley.gov.uk>
Subject: RE: James Durrans - Acoustician Docs 1

Hi Hannah,

Yes the consultant is correct that the condition should be as stated.

46dB LAeq,60mins

Delete the part that says at any time.

Regards

Adam

Adam Cattell
Environmental Health Officer (Pollution Control) – Regulatory Services
Public Health Directorate
Barnsley Metropolitan Borough Council
PO Box 634
Barnsley
S70 9GG

Tel 07741841289

From: Andrew , Hannah (SENIOR PLANNING OFFICER) <HannahAndrew@barnsley.gov.uk>
Sent: 06 April 2021 11:40
To: Cattell , Adam (ENVIRONMENTAL HEALTH OFFICER) <adamcattell@barnsley.gov.uk>
Subject: FW: James Durrans - Acoustician Docs 1

Adam,

I appreciate this was before your time but please can you clarify?

Thanks

Hannah

From: Bill Whitfield <bill@noise.co.uk>

Sent: 01 April 2021 16:37

To: Andrew , Hannah (SENIOR PLANNING OFFICER) <HannahAndrew@barnsley.gov.uk>

Cc: Ian Stephens <ianst@mcs-ltd.com>; Richard Llewellyn <richardl@mcs-ltd.com>; edwhiting@atarchitects.co.uk

Subject: FW: James Durrans - Acoustician Docs 1

Dear Andrew,

We are acting on behalf of our Client on the above development in respect to the acoustic condition below. (Which is detailed in the Grant of Planning Permission note 8)

8 The level of noise emitted from the building shall not exceed 46 dB at any time, as measured on the boundaries with residential properties in Mill Lane, Saville Street and Manchester Road.
Reason: In the interests of the amenities of local residents and in accordance with Core Strategy Policy CSP 40.

In this case the 46dB as an acoustic measurand is ambiguous and we would like to clarify.

I believe personally that it should say 46dB LAeq,T where the 'equivalent sound pressure level is 'A' weighted and the time 'T' is the day time period 60 minutes?

If you can confirm this assumption is correct it would be helpful.

Have a good weekend.

Regards,

Dr Bill Whitfield BA, MSc, PhD, MIOA

Managing Director

M: 07973-899494

Office: 02476-545397

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Warks CV23 0JU

www.noise.co.uk

COVID 19: Please note we operate a simple Covid secure procedure for all our engineers on site, we have to do this because they visit dozens of different sites each month all around the country. The test rooms must be clear of workmen/residents and the site quiet during the testing to ensure the best & safest testing environment. Our engineers have been asked to report any unsafe practices or non-compliance to the site manager or person responsible for the building works where necessary. Your help in protecting our test and survey team workforce is appreciated.

From: Peter Fitzhenry <peterf@mcs-ltd.com>

Sent: 31 March 2021 14:15

To: Bill Whitfield <bill@noise.co.uk>

Cc: Ian Stephens <ianst@mcs-ltd.com>; Richard Llewellyn <richardl@mcs-ltd.com>; edwhiting@atarchitects.co.uk
Subject: FW: James Durrans - Acoustician Docs 1

Bill

Regarding the review of the new construction at James Durrans, Thurlstone

Please find the attached documents to progress your review of the current design

Cladding and structural drawings to follow due to size

Regards

Peter

Peter Fitzhenry
Site Manager
Primary Projects

Mobile: 07759 454001
Email peterf@mcs-ltd.com

MCS Ltd, Site office
James Durrans and Sons Ltd
Saville Lane
Thurlstone
Sheffield
S36 9QU

 Do you really need to print this email?



Haywood Road
Warwick
CV34 5AH



From: Richard Llewellyn <richardl@mcs-ltd.com>
Sent: 31 March 2021 12:55
To: Ian Stephens <ianst@mcs-ltd.com>; Peter Fitzhenry <peterf@mcs-ltd.com>

Cc: Andy Hall <andyh@mcs-ltd.com>

Subject: James Durrans - Acoustician

Both,

Please see below contact details for Bill Whitfield at Noise Consultants Ltd who I've just appointed.

Dr Bill Whitfield BA, MSc, PhD, MIOA

Managing Director

bill@noise.co.uk

M: 07973-899494

Office: 02476-545397

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Pete – could you issue Bill relevant drawings & also product data sheets? Bill will also need to know intended use of the building and likely DB generated within the warehouse, also distance to neighbouring properties.

As long as we can get the ball rolling today they can get something back to us next week (taking bank holidays into account!)

Any queries let me know.

Thanks,

Richard Llewellyn

Commercial Manager

MCS Primary Projects Ltd

Mobile: 07785 615242

Direct Dial: 01926 840917

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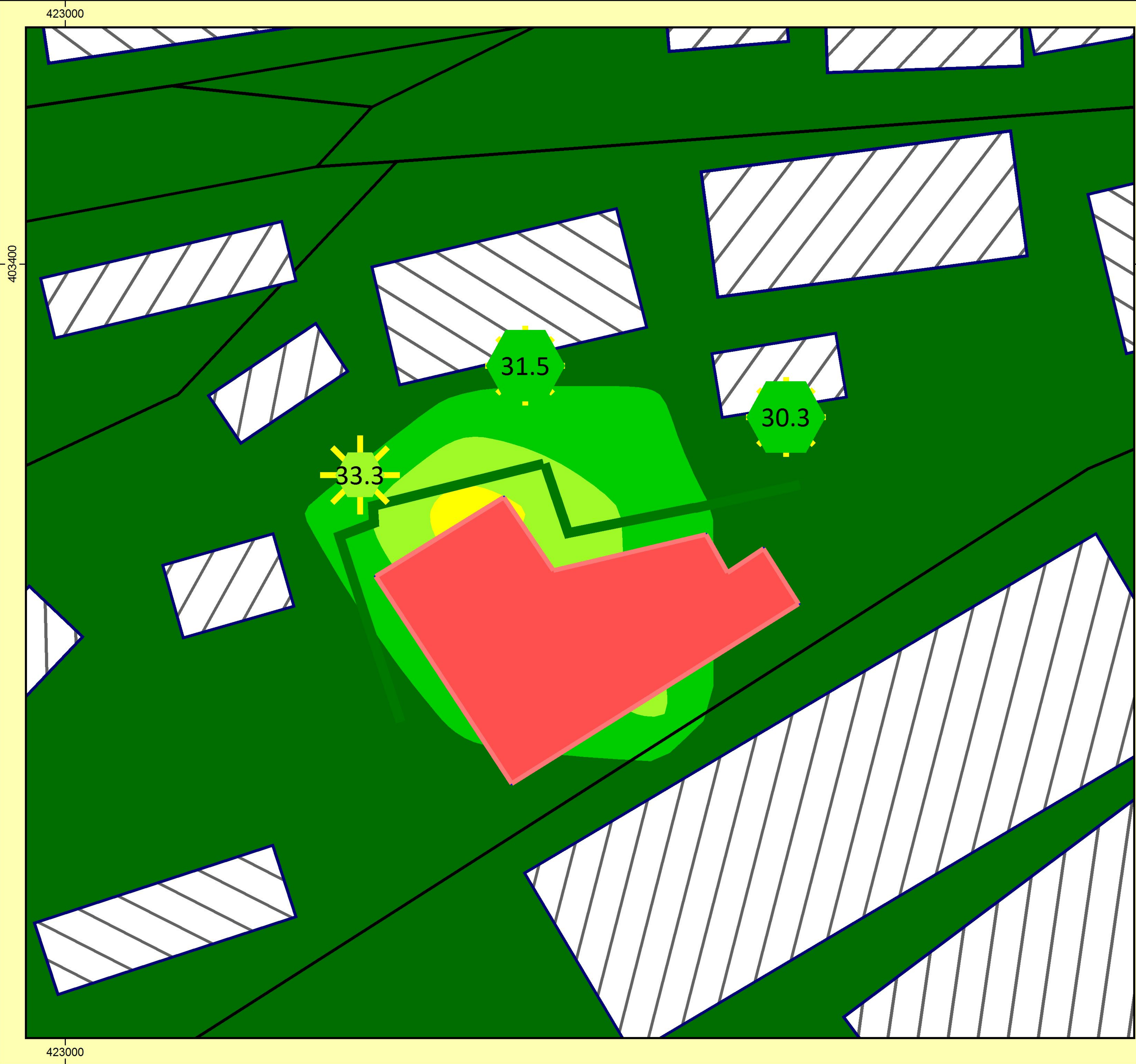


Haywood Road
Warwick
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APPENDIX C: Noise Contours



Customer: MCS Primary Projects Ltd
Project: James Durrans Penistone
Project-No. 21487-1

grid noise map

Operational Noise, $L_{Aeq,T}$ (dB)

Project engineer: RR
Created: 26/05/2021
Processed with SoundPLAN 8.2, Update 01/12/2020

Levels L_rD
in dB(A)

	< 30
	30 - 32
	32 - 34
	34 - 36
	36 - 38
	38 - 40
	40 - 42
	42 - 44
	44 - 46
	>= 46

Signs and symbols

	Road axis
	Emission line
	Surface
	Central reservation
	Wall
	inside tunnels
	Signal
	Railway axis
	Emission line
	Surface
	Wall
	inside tunnels

N

Length scale 1:551

0 3.5 7 14 21 28 m