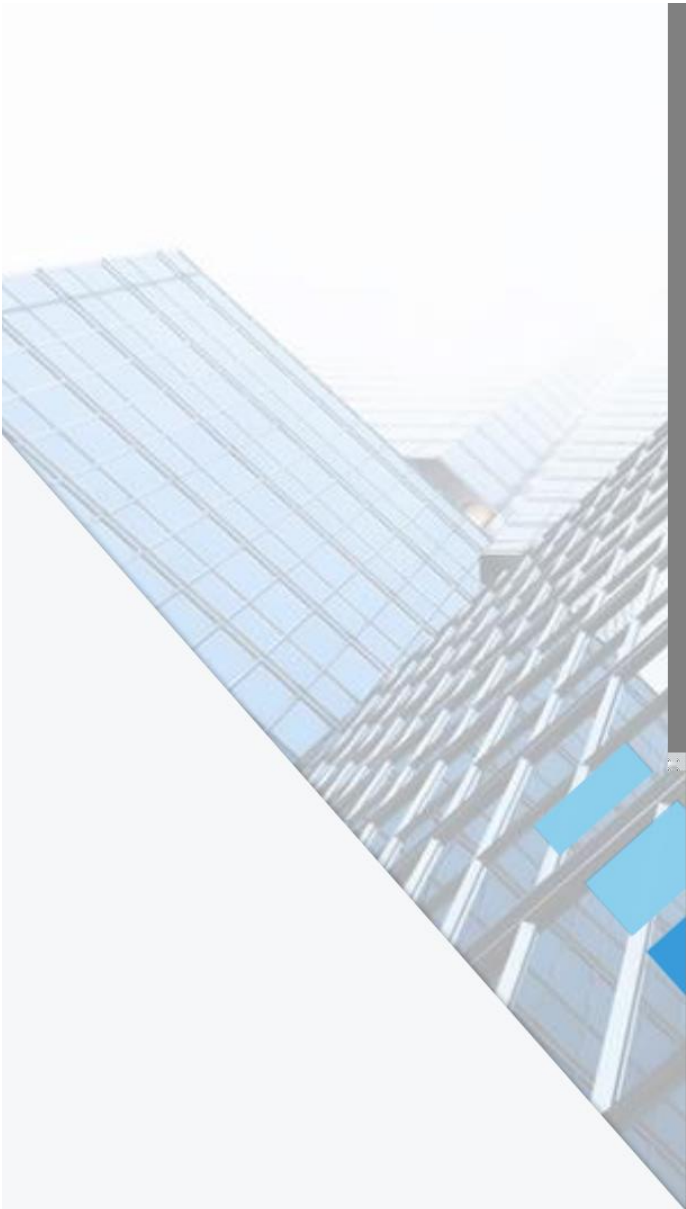




PEAK acoustics

Noise Assessment Report

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Peak Acoustics Ltd, Fernbank

Rev. 1

16/10/2020



Noise Impact Assessment

Report Reference Number: 2306207NR Rev 1.0

Assessment Standard: BS4142:2014

Client: Shariq Poonawala

Site: 533 Wilmslow Road, Withington, Manchester, M20 4BA

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Contents

Revision History	4
Project Information.....	5
Assessment Summary	6
1. Design Criteria.....	7
2. Noise Sources.....	7
3. NSR, Measurement Locations & Site Survey Description	8
4. Measurement Procedure.....	9
5. Measurement Equipment.....	9
6. Weather Conditions.....	9
7. Background Sound Level.....	10
8. Kitchen Extraction System – BS4142:2014 Assessment	10
9. Contextual Factors	12
10. Conclusion.....	12
APPENDIX A – Measurement Details	13
APPENDIX B - Equipment Details	13
APPENDIX C - Meteorology Details.....	13
APPENDIX D - Calibration Details.....	13
APPENDIX E – Noise Survey Results.....	14
APPENDIX F – Calculations.....	16
Kitchen Extraction System Calculations.....	16
APPENDIX G – Technical Data Sheets	17
Kitchen Extraction Fan Unit	17
Kitchen Extraction Fan Silencer	18
APPENDIX H – Acoustic Terminology.....	19

Revision History

Rev.	Date	Author	Description
0.0	16/09/2020	TW	First Issue Report
1.0	16/10/2020	TW	Addition of Section 8. Kitchen Extraction System – BS4142:2014 Assessment: - Assessed noise impact of the proposal at the nearest NSR window on the 1st floor of the South facade - Provided recommendations to minimise the potential for adverse noise impacts Updated Assessment Summary Updated Section 10. Conclusion Addition of Appendix F – Calculations Addition of Appendix G – Technical Data Sheets

Project Information

Peak Acoustics has been commissioned to undertake the assessment detailed within this report. Below is a summary of pre-commencement requirements and comments as communicated to Peak Acoustics by involved parties. This information forms the basis of the assessment and report.

Client Contact	Shariq Poonawala
Client Requirement	A noise impact assessment has been requested by the Local Authority in relation to a planning application for the installation of externally mounted kitchen flue/extractors at 533 Wilmslow Road, Withington, Manchester, M20 4BA.
Selected Methodology	<i>'BS4142:2014 – Methods for rating and assessing industrial and commercial sound'</i>
Methodology Justification	BS4142:2014 is a recognised standard for determining the noise impact of fixed plant machinery via relation of emissions to the measured background noise levels on site.
Local Authority Guidance/Unitary Development Plans/Unique or bespoke standards	Manchester City planning requirements: <i>"Externally mounted ancillary plant, equipment and servicing shall be selected and/or acoustically treated in accordance with a scheme so as to achieve a rating level of 5dB (LAeq) below the typical background (LA90) level at the nearest noise sensitive location."</i>

Assessment Summary

A Noise Impact Assessment has been conducted regarding a planning application for the installation of an externally mounted kitchen flue/extractor at 533 Wilmslow Road, Withington, Manchester, M20 4BA.

An attended background noise survey was undertaken on Tuesday 28th July 2020 to obtain measurements of the existing noise climate, representative of nearby Noise Sensitive Receptors (NSRs). The nearest receptors were identified to be on the 1st floor above the proposal with East and South facing windows.

It is proposed to install the kitchen flue/extractor on the South facing façade of the property. During the consultant's attendance on site it was confirmed that an extract system was already installed. However, the proposal is to replace the existing system with a new extract system, meaning specific noise measurements of the updated extract system were not possible. Instead, manufacturing noise data sheets were used within the assessment.

Operational hours are between 12:00 – 23:00. The kitchen extract system is likely to operate continuously throughout this time, it is also possible it will operate into the night-time period (23:00 – 07:00) due to an influx of late customers and kitchen cleaning. To account for this, the assessment considers a worst-case scenario and sets the cumulative plant limiting noise Rating Level 5 dB below the measured night-time background sound level to ensure plant services are maintained in assessment of minimising the noise impact under the requirements of Manchester City Council. A BS4142:2014 assessment of the kitchen extraction system indicated that Rating Levels would adhere to this. This outcome is subject to the installation of a silencer that achieves a minimum insertion loss of 14 dB and to duct lengths of at least 6m, terminating at least 2m from the NSR window on the South façade.

1. Design Criteria

Manchester City Council requirements are outlined in Section 3.0 of Manchester City Council's Planning & Noise Technical Guidance document (December 2015).

Section 3.6.1.5.1 outlines that the noise assessment for fixed plant should be based on BS4142:2014 and the assessment must demonstrate that:

"Externally mounted ancillary plant, equipment and servicing shall be selected and/or acoustically treated in accordance with a scheme so as to achieve a rating level of 5dB (L_{Aeq}) below the typical background (L_{A90}) level at the nearest noise sensitive location."

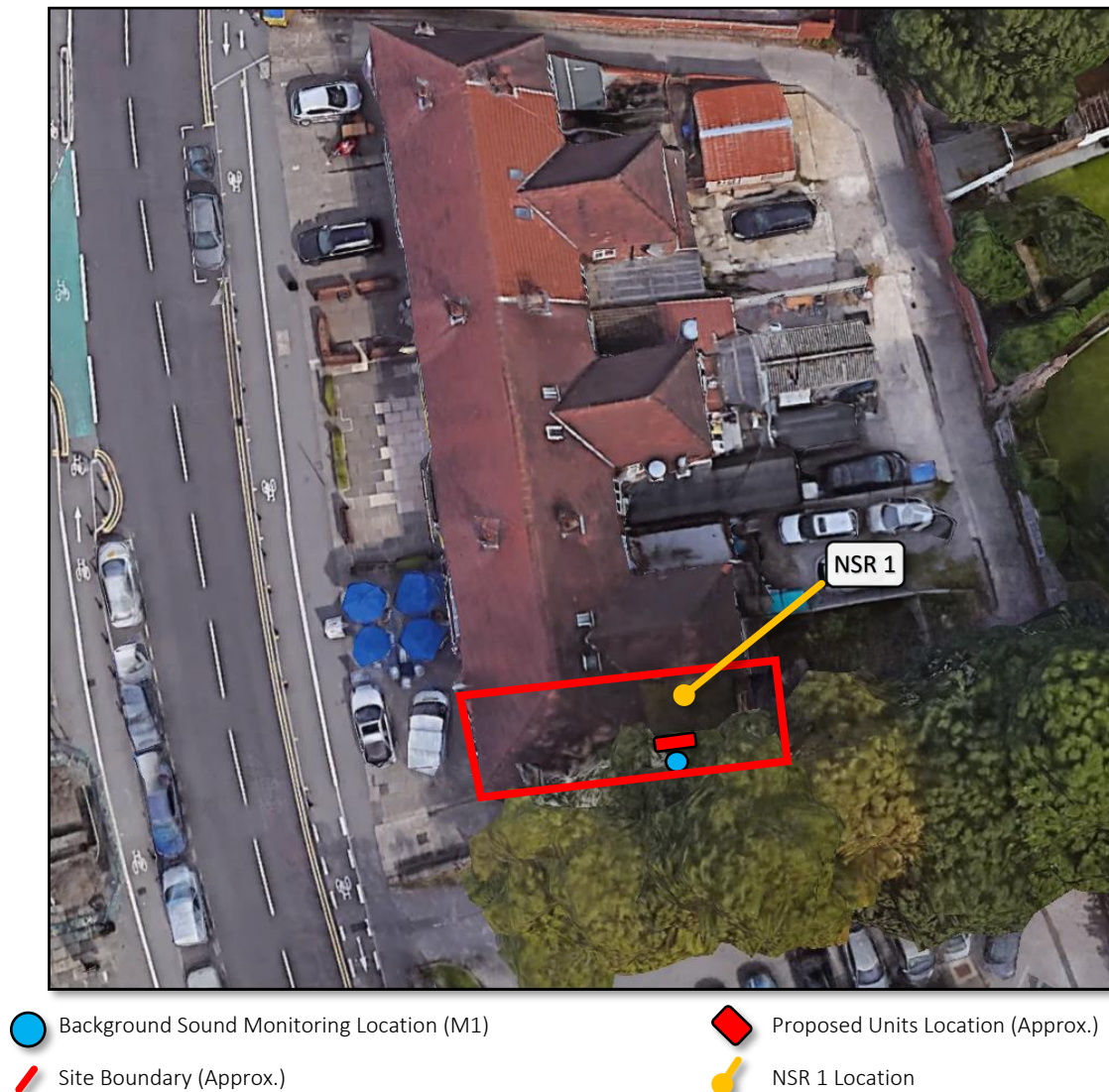
2. Noise Sources

- 2.1 It is proposed to install a kitchen extract system on the south facing façade of 533 Wilmslow Road, Withington, Manchester, M20 4BA. The model of the extract unit is detailed in **Section 8**.
- 2.2 The extract plant will operate continuously during the day with potential to run over into the night-time period. Background sound levels were measured during the quieter night period to account for a worst-case scenario.

3. NSR, Measurement Locations & Site Survey Description

- 3.1 The existing noise climate on site primarily consists of slow-moving car and bus traffic passing along Wilmslow Road and vehicles accessing a car park to the South of the site. AC plant noise was also heard originating from the South façade of the development and is presumed to serve the adjacent business at 531 Wilmslow Road.
- 3.2 Secondary noise sources consisted of distant traffic and pedestrians walking and conversing. Existing low-level external plant equipment is also present on the neighbouring property, 531 Wilmslow Road, on the South façade and East façade.
- 3.3 The nearest and/or worst-affected Noise Sensitive Receptor (NSR) has been identified as being on the 1st floor above the proposal.
- 3.4 The site, NSR, noise monitoring and noise source locations are shown in **Figure 1** below.

Figure 1: Measurement and NSR Locations



4. Measurement Procedure

- 4.1 An attended background noise survey was conducted at position M1 between the hours of 23:50 – 00:15 on Tuesday 28th July 2020. Measurements of $L_{Aeq,T}$ and $L_{A90,T}$ were logged in 5-min intervals at 1/1 octave resolution.
- 4.2 At position M1 the microphone was placed approximately 1.5m from ground level and around 1.5m from the side façade. The noise climate at this location was deemed representative of the NSR location above.
- 4.3 Noise measurements of a newly proposed extraction system could not be undertaken, specific plant noise data can be collected at a later date once the proposed plant is installed.

5. Measurement Equipment

- 5.1 Measurements were obtained using Class 1 instrumentation. Full equipment details are given in **Appendix B**.
- 5.2 Equipment was calibrated before and after use and no significant drift occurred during measurements. Full calibration details are provided in **Appendix D**.

6. Weather Conditions

- 6.1 No precipitation occurred during the attended measurement period. The temperature was 13°C with wind speeds of around 4 m/s, suitable for conducting environmental noise measurements. Detailed meteorological information can be found in **Appendix C**.

7. Background Sound Level

- 7.1 The extract unit is proposed to operate consistently between the hours 12:00 – 23:00, although the system may operate beyond this time. To account for this, the assessment utilises measured noise data obtained during the night period of July 28th (23:50 – 00:15). In line with BS4142:2014, a representative 15minute period within this measurement (00:00 – 00:15) was determined as the typical background sound level during the night-time period.
- 7.2 The representative background sound level is summarised in **Table 1** below:

Table 1: Night-time Background Sound Levels

Location	Parameter	Date(s)	Typical Background Sound Level, dB
			L _{A90} , T=15min
M1	Night (23:00 – 07:00)	28/07/20	42

- 7.3 In accordance with Manchester City Council criteria, the assessment criterion for plant noise emissions is therefore **37 dB L_{Aeq}**.

8. Kitchen Extraction System – BS4142:2014 Assessment

- 8.1 A kitchen extraction system is proposed to be installed to the external South façade and to terminate above roof level.
- 8.2 The proposed fan unit with the corresponding noise levels are given below. The technical data sheet for the fan unit is given in **Appendix G**.

Table 2: Kitchen Fan Unit – Sound Power Levels

Fan Unit	Parameter	63	125	250	500	1K	2K	4K	8K	dB(A)
S&P TCBTx2/4-500	L _w A	62	75	86	87	88	83	76	69	91

- 8.3 The Specific Sound Level is denoted L_{As} and is the A-weighted, equivalent noise level at the NSR location. The Specific Sound Levels have been calculated taking into account loss through the ductwork, distance loss and directivity toward the NSR's. Calculations have only considered noise emissions from the system termination point as the fan unit is to be installed internally within the building. Proposals include installation of a silencer. This will be required to provide a loss of at least 14 dB. The proposed silencer is the *Hotchkiss C42/500*, the technical data sheet for the unit is provided in **Appendix G**. Full calculations are given in **Appendix F**.

8.4 Resultant Specific Sound Levels are tabulated below.

Table 3: Specific Sound Levels

NSR	Specific Sound Level, dB L _{As}
NSR	34

8.5 In accordance with BS4142:2014, the Specific Sound Levels may be corrected for characteristics that make the sound more noticeable at the NSR location such as tonality, impulsivity and intermittency. Industrial kitchen extraction systems such as these have the potential to emit noise with tonal characteristics. A 3 dB penalty for tonality is therefore deemed applicable due to the proximity of the extraction system in relation to the NSR window. The system will operate continuously when the kitchen is in use and will not produce any impulsive characteristics, no further penalties have been applied.

8.6 The Rating Levels are to be compared to the lowest background sound levels to determine noise impact in accordance with BS4142:2014.

A Sound Rating Level at or below the background noise level is indicative of Low Impact;

A Sound Rating Level that exceeds the background noise level by around +5dB is likely an indication of Adverse Impact, depending on the context;

A Sound Rating Level that exceeds the background noise level by around +10dB is likely an indication of Significant Adverse Impact, depending on the context;

The noise impact at the NSR is summarised below.

Table 4: Noise Impact

NSR	Rating Sound Level, dB L _{Ar}	Background Criterion, dB L _{A90}	Difference, dB	BS4142 Impact
NSR 1	37	37	0	Low Impact

8.7 The Rating Level at the NSR is indicated to be 5dB below the background sound level, achieving the requirements set by Manchester City Council, therefore indicative of *low impact*.

8.8 This is achieved if the recommended silencer provides a minimum insertion loss of 14 dB, e.g. *Hotchkiss C42/500*, and is installed as close to the fan unit as possible.

8.9 Further, the extract ducting must be at least 6m in length and exit above roof height, at least 2m away from the NSR window on the 1st floor of the South façade.

9. Contextual Factors

- 9.1 The neighbouring business has an operational kitchen extract system and intermittently running external condenser unit, serving internal AC units. Plant and entertainment noise are emitted from existing commercial properties adjacent to the development and an existing kitchen extraction system is already operational at the premises. The existing noise climate is therefore made up of numerous noise sources related to the use of commercial and hot food businesses, it can be considered that residents in the surrounding area are likely accustomed to commercial noise similar to that expected from the proposal.

10. Conclusion

- 10.1 A Noise Impact Assessment has been conducted for the installation of externally mounted kitchen extract flues on the South facing façade of the site.
- 10.2 A background noise survey was undertaken to derive representative background sound levels at the nearest Noise Sensitive Receptors (NSRs), which were identified to be on the 1st floor above the proposal.
- 10.3 The new kitchen extract system was not fitted so specific noise measurements were unobtainable. Noise data sheets were used to determine the noise impact of the proposal at the NSR.
- 10.4 A BS4142:2014 assessment of the kitchen extraction system during the night time period indicated that Rating Levels match the background sound level criteria, 5 dB under the typical background sound level, meaning the proposal is likely to be of *Low Impact*. Please note, this outcome is subject to the installation of a silencer, that achieves a minimum insertion loss of 14 dB, and to duct lengths of at least 6m which terminate no less than 2m from the 1st floor NSR window on the South façade.
- 10.5 Provided the recommendations given within this report are implemented in full and adhered to, noise emissions associated with the proposal are to be controlled with the potential for adverse noise impacts minimised.

APPENDIX A – Measurement Details

Measurement	Kit	Start Date	Start Time	End Date	End Time
M1	A4	28/07/20	23:50	28/07/20	00:15

APPENDIX B - Equipment Details

Kit	Equipment	Make	Model	Class	Serial Number
A4	Sound Meter	Svantek	971	1	60688
A4	Pre-Amp	Svantek	SV18	1	62781
A4	Microphone	ACO	7052E	1	66703
A4	Calibrator	Svantek	SV33A	1	90273

APPENDIX C - Meteorology Details

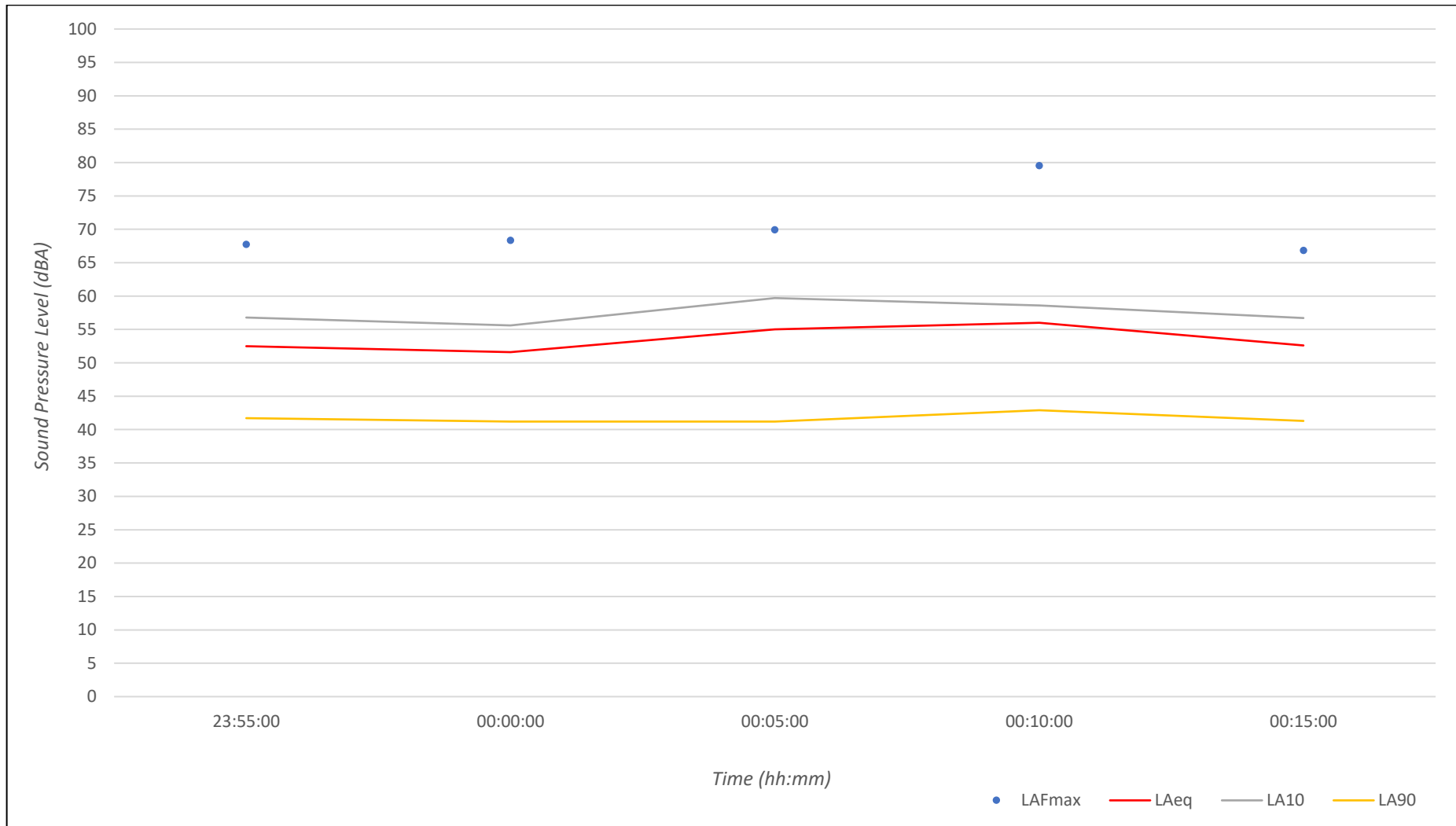
Date	Temp C°	Wind Speed m/s	Wind Direction	Humidity %	Precipitation mm	Cloud Cover (Oktas)
28/07/20	13	4	W	71	0	7/8

APPENDIX D - Calibration Details

Measurement	Calibrator Ref Level (dB)	Level Before (dB)	Deviation Before (dB)	Level After (dB)	Deviation After (dB)
M1	113.9	114.79	-0.89	114.81	-0.91

APPENDIX E – Noise Survey Results

Measured Background Sound Levels [M1] 28th July 2020



	LAFmax [dB]	LAeq [dB]	LA10	LA90
Time				
23:55:00	67.7	52.5	56.8	41.7
00:00:00	68.3	51.6	55.6	41.2
00:05:00	69.9	55	59.7	41.2
00:10:00	79.5	56	58.6	42.9
00:15:00	66.8	52.6	56.7	41.3

APPENDIX F – Calculations

Kitchen Extraction System Calculations

Fan Unit	Para.	63	125	250	500	1k	2k	4k	8k	dBA
<i>S&P TCBBx2/4-500</i>	LwA	62	75	86	87	88	83	76	69	91
NSR 1										
<i>Silencer - Hotchkiss C42/500</i>	500mm	-3	-9	-14	-24	-26	-24	-21	-10	
<i>Unlined Duct Elbow Att. (Right Angle)</i>	500mm	0	0	0	-8	-4	-3	-3	-3	
<i>Attenuation (dB/m Duct)</i>	500mm	-3.9	-3.9	-3.0	-2.1	-2.1	-2.1	-2.1	-2.1	
<i>End Reflections</i>	500mm	-8	-4	-1	0	0	0	0	0	
<i>Directivity Loss (150°)</i>	500mm	-3	-5	-9	-18	-48	-53	-53	-63	
<i>Distance Loss (2m)</i>		-6.0	-6.0	-6.0	-6.0	-6.0	-6.0	-6.0	-6.0	
Level at NSR	LpA	27	36	42	18	-9	-16	-20	-26	34
Specific Sound Level		34								
Penalties										
<i>Tonality</i>		3								
Rating Level at NSR		37								
Difference Between BG and Plant		0								

APPENDIX G – Technical Data Sheets

Kitchen Extraction Fan Unit

■ Technical characteristics

Before installation check that the product electrical characteristics listed on the data plate label (Voltage, power, frequency etc) match those of the intended electrical supply.

Model	Speed (r.p.m.)	Maximum absorbed power (kW)	Maximum absorbed current (A)	Sound pressure level (dB(A))	Maximum air volume (m ³ /h)	Weight (kg)	Speed controller*
TCBBx2/4-450	1370	1,24	5,40	74	6900	42	RMB-8
TCBBx2/4-500	1300	1,70	7,30	76	9400	50	RMB-8
TCBBx2/4-560	1340	3,25	15,50	78	14300	66	-
TCBBx2/4-630	1280	3,90	19,00	79	18200	80	-
TCBTx2/4-450	1400	1,25	3,40	74	6900	42	RMT-5
TCBTx2/4-500	1340	1,75	3,60	76	9400	50	RMT-5
TCBTx2/4-560	1360	3,12	5,80	78	14300	66	VFTM TRI 4
TCBTx2/4-630	1370	4,20	8,00	79	18200	80	VFTM TRI 5,5

* Three phase speed controllers (RMT) or inverter control (VFTM) are suitable for 400V.

■ Acoustic characteristics

The sound levels –NPS- shown in the technical characteristic chart, correspond to the value of sound pressure dB(A), measured in free field conditions at a distance equivalent to three times the diameter of the impeller with a minimum of 1.5 meters.

The following table shows the sound power level spectrums in dB(A) measured with the fan ducted, at both inlet and discharge sides.

Model	Air volume m ³ /h	63	125	250	500	1000	2000	4000	8000	Global
450 Inlet	6600	46	73	85	82	85	79	72	64	90
	5850	46	73	84	81	83	79	71	64	88
	4300	58	70	80	80	83	79	71	64	87
450 Outlet	6600	63	75	86	85	87	82	74	67	92
	5850	53	73	85	84	87	81	74	67	91
	4300	58	70	82	83	86	82	74	67	90
500 Inlet	9000	48	78	87	85	87	81	74	67	92
	7500	52	76	85	85	85	80	73	65	90
	6000	60	73	83	82	85	80	73	66	89
500 Outlet	9000	65	76	87	88	90	84	77	70	94
	7500	62	75	86	87	88	83	76	69	92
	6000	59	72	86	85	88	83	76	69	92
560 Inlet	13720	50	85	87	88	91	85	78	73	95
	10800	57	79	83	86	89	84	78	72	93
	9000	63	79	81	86	89	84	78	72	92
560 Outlet	13720	74	86	85	91	94	88	81	75	97
	10800	70	82	84	88	92	87	81	74	95
	9000	74	81	85	89	92	87	81	74	95
630 Inlet	17500	51	85	91	89	93	87	80	74	97
	15600	55	85	85	88	91	86	80	73	95
	12000	64	80	84	88	90	86	80	73	94
630 Outlet	17500	73	87	88	93	95	89	83	77	99
	15600	71	87	86	91	94	89	83	76	98
	12000	67	84	86	90	94	89	84	76	97

124

Kitchen Extraction Fan Silencer

C3 & C4 Circular Attenuators



Description

Hotchkiss Air Acoustic type C3 & C4 Circular attenuators are available in all standard circular fan sizes from 315mm to 1250mm diameter.

The C3 & C4 range of attenuators have standard length options of 1x nominal fan diameter (C31/C41) or 2x nominal fan diameter (C32/C42).

Type C3

Supplied without a central acoustic pod.

Type C4

Supplied with a central acoustic pod (and consequently offer a higher acoustic performance).

Construction

Attenuator construction for this range comprises external pre-galvanised sheet steel tube outer casing, manufactured in accordance with HVCA DW 144 specification, end rings fitted with tapped inserts to suit the relevant fan drilling detail.

The attenuator inner bore is manufactured from perforated pre-galvanised sheet steel spiral tube, retaining a 45 kg/m³ density acoustic media with a surface particulate membrane. This material has a Class 1 rating for surface spread of flame when measured to BS 476 (part 7 1971) and is suitable for velocities up to 30 m/s.

Special Finishes

Where required C3 and C4 range of attenuators can be supplied in the following finish options:

- Stainless Steel to required grade
- Heavy-duty case construction
- External polyester powder coat paint finish, to BS/RAL standard colour range

C3 Attenuators			Octave band mid frequencies						
Code	i.d	L	125	250	500	1k	2k	4k	
C31/315	315	315	3	5	9	13	10	6	
C32/315	315	600	6	9	15	19	16	12	
C31/355	355	355	4	5	10	13	10	5	
C32/355	355	710	7	10	17	20	15	11	
C31/400	400	400	4	5	11	12	9	5	
C32/400	400	800	8	11	17	21	16	12	
C31/450	450	450	4	6	12	13	10	7	
C32/450	450	900	8	12	19	22	15	12	
C31/500	500	500	5	7	13	13	10	6	
C32/500	500	1000	8	12	20	23	15	11	
C31/560	560	560	5	6	12	13	10	6	
C32/560	560	1120	8	12	19	23	15	12	
C31/630	630	630	4	9	14	15	8	6	
C32/630	630	1260	7	13	21	22	12	11	
C31/710	710	710	4	8	13	14	7	5	
C32/710	710	1420	7	13	20	19	11	10	
C31/800	800	800	4	8	13	12	7	5	
C32/800	800	1600	8	13	21	18	11	10	
C31/900	900	900	4	8	13	12	7	5	
C32/900	900	1800	8	13	21	18	11	10	
C31/1000	1000	1000	5	9	13	11	6	4	
C32/1000	1000	2000	9	14	21	18	12	9	
C31/1250	1250	1250	5	8	12	10	5	4	
C32/1250	1250	2500	9	14	20	18	11	8	

C4 Attenuators			Octave band mid frequencies						
Code	i.d	L	125	250	500	1k	2k	4k	
C41/315	315	315	5	8	11	14	15	11	
C42/315	315	600	9	13	19	23	21	19	
C41/355	355	355	6	9	12	16	15	11	
C42/355	355	710	9	14	20	25	22	20	
C41/400	400	400	6	9	12	16	14	10	
C42/400	400	800	9	14	22	25	21	19	
C41/450	450	450	6	9	13	19	19	16	
C42/450	450	900	9	13	22	24	23	21	
C41/500	500	500	6	10	14	19	18	15	
C42/500	500	1000	9	14	24	26	24	21	
C41/560	560	560	6	10	14	20	19	16	
C42/560	560	1120	10	14	24	27	26	23	
C41/630	630	630	6	9	16	22	19	17	
C42/630	630	1260	10	15	25	30	28	26	
C41/710	710	710	7	10	17	22	18	15	
C42/710	710	1420	11	16	26	31	30	26	
C41/800	800	800	6	11	19	17	15	13	
C42/800	800	1600	11	17	25	25	24	21	
C41/900	900	900	6	11	19	17	15	13	
C42/900	900	1800	11	17	25	25	24	21	
C41/1000	1000	1000	6	11	20	18	15	13	
C42/1000	1000	2000	11	18	26	26	25	20	
C41/1250	1250	1250	7	12	20	18	15	11	
C42/1250	1250	2500	12	20	28	27	24	18	

Note C3 & C4 attenuator performance can vary with the flow characteristics due to the fan condition parameters. The above values are for general guidance only. Critical applications should be referred to HA2 for evaluation.

APPENDIX H – Acoustic Terminology

To aid the understanding of acoustic terminology and the relative difference between noise levels the following background information is provided.

We perceive sound when the ear detects fluctuations in air pressure (sound waves), which are then processed by the brain and perceived as sound. Humans can hear an incredibly wide range of sound intensities ranging from jet engines to fingertips lightly brushing against each other. This range is quantified using a logarithmic scale called the decibel scale (dB). The comfortable range of the decibel scale typically ranges from 0dB (the threshold of hearing) to around 140dB. Here are some examples common environments and their typical noise levels.

Noise Level	Environment
0 dB(A)	Threshold of hearing
20 to 30 dB(A)	Quiet bedroom at night
30 to 40 dB(A)	Living room during the day
40 to 50 dB(A)	Typical office
50 to 60 dB(A)	Inside a moving car
60 to 70 dB(A)	Typical high street
100 to 110 dB(A)	Fire alarm at 1 metre away
140 dB(A)	Threshold of pain

Terminology

dB (decibel) – A unit used to quantify the pressure level of sound. Defined as 20 times the logarithm of the ratio between the root-mean-square pressure of a given sound field and a reference pressure level (2×10^{-5} Pa – threshold of hearing).

$L_{Aeq, T}$ – The equivalent continuous sound pressure level over a stated period. It quantifies a fluctuating sound level over a given period as the equivalent continuous sound level in which the same amount of acoustic energy is contained over. This is A-weighted in order to assess human perception.

L_{Amax} – the maximum RMS A-weighted sound pressure level occurring within a specified time period; the time weighting is typically either Fast or Slow.

R_w – The Weighted Sound Reduction Index (R_w) is a number used to rate the effectiveness of a soundproofing system or material.

$D_{n,e,w}$ – The Weighted Sound Reduction Index specifically for ventilators.

C_{tr} – C_{tr} is a spectrum adaptation term which method is defined in BS EN ISO 717. The standard uses a reference curve to determine the weighted value of airborne sound insulation. The spectrum adaptation terms C and C_{tr} may be used to take into account different source spectra. ' C_{tr} ' is the A-weighted urban traffic noise spectrum.



Let us introduce ourselves

Peak Acoustics formed in 2011, we are a fully accredited specialist consultancy and testing organisation.

We are a diverse team of Acoustic Consultants, Specialist Engineers and Building Compliance Technicians, with a network spanning the UK. We are proud to offer our services nationally, with no job too big or small.

We provide Acoustic Consultancy, Building Compliance Testing and Energy Services.

Additional Services

We offer an extensive range of services in the sectors of Acoustic Consultancy, Building Compliance & Energy Efficiency. We are able to put together custom packages combining multiple services which saves both time and money for you.

Building Compliance

- Sound Insulation Testing
- Air Tightness Testing
- Ventilation Testing
- Water Efficiency Calculations
- Sound Insulation Specification

Energy Efficiency

- SAP Calculations
- EPC's
- SBEM Calculations
- Energy Statements
- Sustainability Statements
- MEES Regulations
- Commercial EPC's

Acoustic Consultancy

- Noise Assessment for planning conditions
- Construction site noise monitoring
- Noise at work assessments
- Noise & Vibration Impact Assessments

Peace of mind

We are accredited and registered by all the relevant major UK authorities to provide the services we offer. Peak Acoustics is UKAS accredited for sound insulation testing, ATTMA registered for Air Leakage Testing. and our Energy team are all Domestic On-Completion Energy Assessors.

Our Added Value

We combine our detailed knowledge of building regulations with our technical understanding of building physics, acoustics and environmental sciences to maximise development quality. Our work ensures appropriate strategies and studies are prepared to demonstrate to local authorities how proposed developments will be of high quality and generate acceptable impact on the surrounding environment.

Contact Us

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