



Noise Impact Assessment

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Summary

A noise impact assessment has been carried out in relation to a proposed change of use to a gymnasium at basement level of Hilton House, 26-28 Hilton Street, Manchester, M1 2EH in order to provide supporting documentation as required by Manchester City Council [MCC] Environmental Health [EH]. The information is required to discharge two anticipated forthcoming planning conditions (NSE 1 and NSE 6) as detailed in the MCC EH Internal Memorandum dated 11th March 2019. The noise assessments have addressed the potential adverse impacts on nearby noise sensitive properties as a result of:

1. Music noise from the gym;
2. Noise breakout from the ground floor restaurant which has had its entrance area updated as part of refurbishment works (this assessment also considers noise impact due to an external ground floor seating area used by the restaurant);
3. External building services plant.

Previous background noise survey measurements undertaken have been used to inform the noise assessments. These measurements are detailed in the previous Peak Acoustics Reports ref: CH1209186NR and ref: CH1010181NRrev.2.

Limiting noise levels have been produced for music noise within the gym area which, if adhered to, should result in a low likelihood of adverse impact upon nearby noise sensitive properties.

Limiting noise levels have been produced for music noise within the restaurant area which, if adhered to, should result in a low likelihood of adverse impact upon nearby noise sensitive properties.

The external seating area associated with the ground floor restaurant has been considered to identify the likelihood of noise disturbance. It has been determined that the usage of the external seating area is unlikely to cause adverse impact upon nearby noise sensitive premises during daytime hours (07:00 – 23:00) but could have an impact during night-time hours (23:00 – 07:00), therefore it has been recommended that the external seating area is utilised during daytime hours (07:00 – 23:00) only.

Proposed mitigation measures have been reviewed for roof level to ensure that the appropriate noise criteria can be met for all plant operating simultaneously. The criteria are met with no additional attenuation measures deemed necessary.

1. Proposals

The description of proposals is as follows:

Description:	Change of use of the basement to a gym (use class D2); Creation of new access; Retention of the existing ground floor restaurant (Class A3 Use) (approved under application ref no 094485) with amendments to approved hours of operation and alterations to ventilation and fume extraction system; Regularisation of the use of the pavement adjacent to the building on Port Street as external seating area to comprise tables and chairs associated with and ancillary to the restaurant use; External alterations comprising the removal of the existing 'shack' structure and erection of a pergola structure and associated external alterations to the building including: • new ground floor entrances (relocation of those approved under application ref no 120931) • addition of roof level plant, and • minor amendments to basement window and door design (approved under application ref no 120931).
Location:	Hilton House, 26-28 Hilton Street, Manchester, M1 2EH
Proposed Hours:	D2 – (gym) Monday to Sunday 06.00 to 23.00 hours A3 – (Restaurant) Monday to Sunday 07.00 to 00.00 hours

2. Background Information

2.1 Location

Hilton House is situated in the northern sector of Central Manchester in a mixed residential and commercial area. Levels 1-5 of the building are offices.

The nearest noise sensitive properties are as follows:

1. The Vaults apartments due west of Hilton House, neighbouring on both Port Street and Tariff Street;
2. Hatters Hostel due north opposite Hilton House across Port Street.

Please see figure 1 on page 5.

2.2 Background Noise Surveys

Peak Acoustics have undertaken two background noise surveys at the site. The first survey was conducted with the microphone mounted on a tripod at roof level from 1st to 2nd October 2018, (position M1). The second survey was conducted from 27th to 28th November 2018 with the microphone located out of a first-floor level window overlooking Port Street (position M2). Full details, including equipment types and calibration information, are in Peak Acoustics Reports ref: CH1209186NR and ref: CH1010181NRrev.2.

A summary of the measured noise levels for both surveys is shown in Table 1 on page 5. Graphical data is shown for Positions M1 and M2 in Appendix A.

Position	Time period	T	$L_{Aeq, T}$ (dB)	Typical $L_{A90, T}$ (dB)
M1 (Roof)	Day	0700-2300	57	49 (T=1hour)
	Night	2300-0700	51	46 (T=15min)
M2 (Port Street)	Day	0700-2300	64	54 (T=1hour)
	Night	2300-0700	58	48 (T=15min)

Table 1: Noise Survey Results

2.3 Measurement Locations

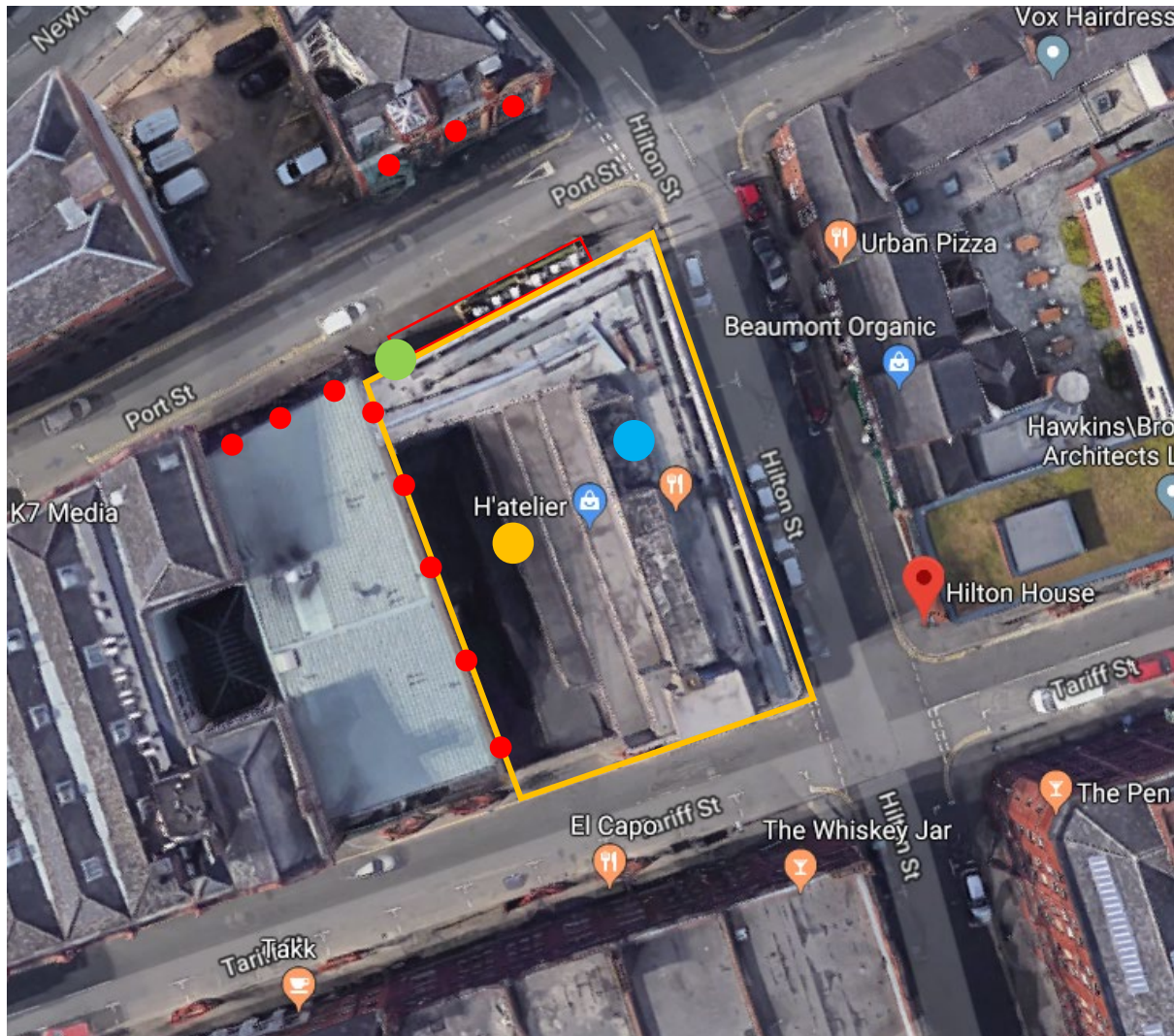


Figure 1: Site and Measurement Locations

- - Peak Acoustics Background Measurement Location (M1)
- - Peak Acoustics Background Measurement Location (M2)
- - Spectrum Acoustics Background Measurement Location (P1) (2010) (See Appendix C)
- - Site Location
- - Residential Windows
- - External Seating Area

3. Sound Transmission: Gym to The Vaults Apartments

3.1. Local Authority Requirements

Manchester City Council requires that:

Where entertainment noise is proposed the L_{Aeq} (entertainment noise) shall be controlled to 10dB below the L_{A90} (without entertainment noise) in each octave band at the facade of the nearest noise sensitive location, and internal noise levels at structurally adjoined residential properties in the 63Hz and 125Hz octave frequency bands shall be controlled so as not to exceed (in habitable rooms) 47dB and 41dB, respectively.

3.2. Layout and Construction Details

The proposed layout of the gym and the party wall that separates the gym from the adjoining “Vaults” apartments is shown below in Figure 2.

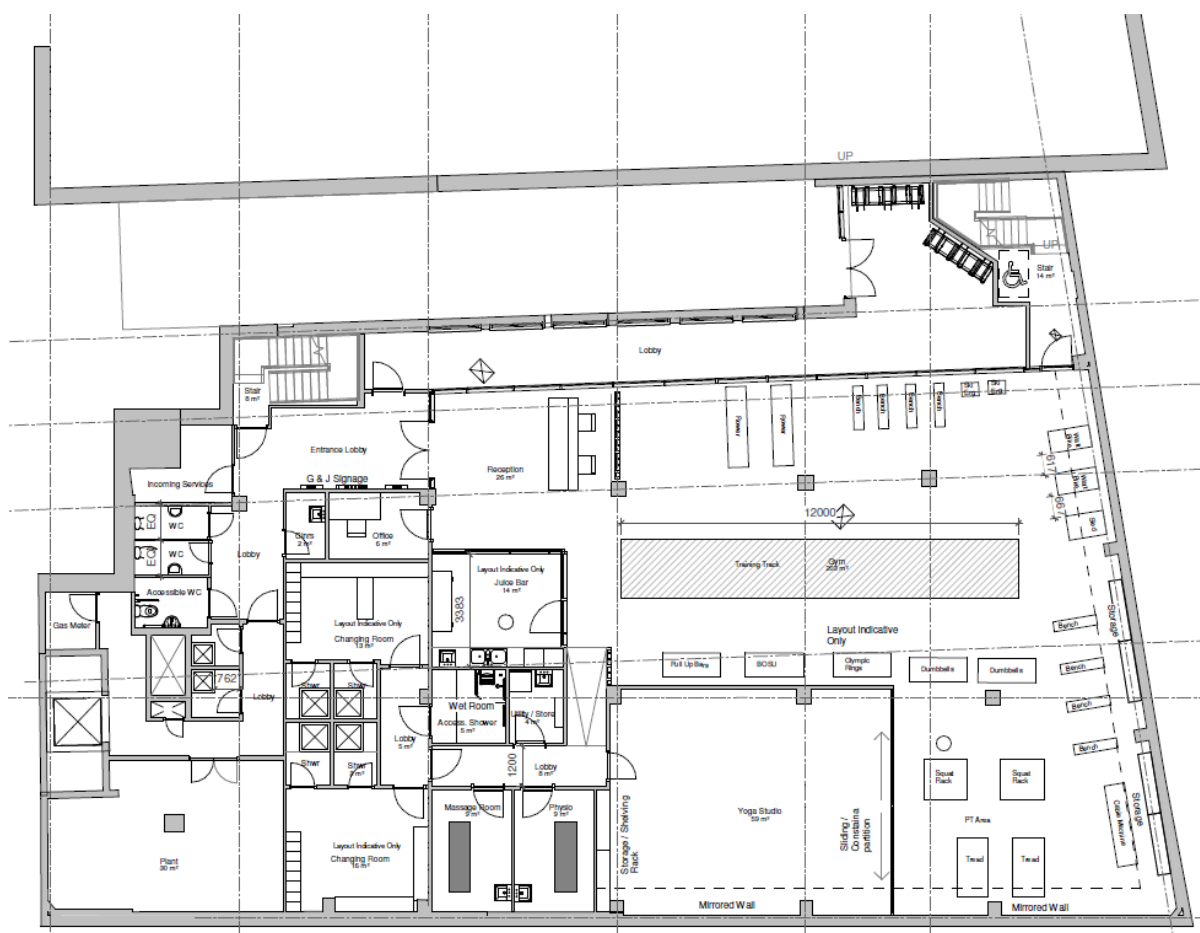


Figure 2: Basement (Gym) Layout

As illustrated, there is a long lobby area proposed which separates the gym from the areas immediately adjacent to the neighbouring property. The lobby also separates the gym from external areas. This lobby is landlord space and not within the demise of the gym, and it is not proposed to have any amplified music within this space. Music from the gym would therefore need to travel through the internal partition to the lobby, and the party wall, before entering the neighbouring building internally, or through the internal partition to the lobby, and the external wall, before reaching the neighbouring façade.

The layout of the neighbouring apartments is not known. It is considered unlikely that there would be a habitable room at basement level adjacent to the cycle store, nevertheless, an assessment has been undertaken to provide limiting music noise levels within the lobby area such that the local authority noise criteria can be met the other side of the party wall.

It has been advised that the party wall is of brick construction, but specific details are not known. For the purpose of the assessment, it has been assumed that the party wall construction is brick cavity, plastered both sides.

It is understood that the external wall at basement level is currently 100mm block inner leaf, 102mm brick outer leaf with 50mm cavity, with six 1500 x 500 louvres at the top of the wall. It is proposed that the louvres be closed up internally with 100mm blockwork. For the purpose of the assessment the sound reduction for this external wall is assumed to equal that provided by single 100mm block plastered both sides.

The internal partition separating the gym from the lobby is currently proposed as a metal mesh screen.

3.3. Predicted Internal Sound Transmission to Neighbouring Building

It is proposed to set limiting music noise levels to be achieved within the lobby area. This will allow:

1. Control of music noise through the party wall (in the 63Hz and 125Hz octave bands);
2. Control of music noise to external areas (to 10dB below the background noise level);
3. The opportunity for a meaningful and unobtrusive validation exercise to be undertaken at a later date, by measuring noise levels in the lobby area rather than the gym.

Table 2 details the limiting noise levels to be achieved in the lobby to satisfy the Local Authority's requirements. Calculations are included in Appendix C.

	Octave Band Centre Frequency (Hz)								dB(A)
	63	125	250	500	1k	2k	4k	8k	
Lobby Sound Level Limit	66	67	63	64	77	82	79	71	85

Table 2: Lobby Limiting Noise Levels

In order to ensure that these noise levels can be maintained, the gym music noise could be monitored and controlled with a limiter, although this is not expected to be required to limit overall noise levels. It will be noted during any validation exercise undertaken whether the sound system installed has the potential to exceed the recommended limits, and if this is found to be the case, a noise limiter may be advised.

N.B. There is no direct route for sound to travel from the gym to Port street, therefore an assessment is not deemed necessary for the Hatters Hostel.

4. Sound Transmission: Restaurant to Hatters Hostel

4.1 Main Restaurant

It is understood that the Local Authority requires specification of *“The maximum permissible noise levels in octave bands for the amplified music with the restaurant due to the reconfiguration of the doors to the external seating area.”*

The proposal includes an upgrade to the existing Port Street façade, which is proposed to be fully glazed with large glazed entrance doors. We have been informed by The Client that even though there is an external seating area on this façade, the door will remain closed other than for access, and there is no music proposed to be played in the outside seating area.

Table 3 shows the calculated limiting music noise levels to be achieved inside the restaurant to satisfy the Local Authority’s requirements. Calculations are included in Appendix D.

	Octave Band Centre Frequency (Hz)								dB(A)
	63	125	250	500	1k	2k	4k	8k	
Restaurant Music Sound Level Limit	91	89	82	86	98	97	82	76	101

Table 3: Lobby Limiting Noise Levels

It is understood that the company due to occupy the restaurant following refurbishment is a Coffee Shop. Although the premises will be licenced to sell alcohol, a major part of their offering is to provide workspaces, so there is not likely to be a noisy or ‘party’ atmosphere. Furthermore, it is understood that the likely closing time of the coffee shop will be 2000 hours; the limiting noise levels shown above are based upon targets derived from a much quieter part of the day (2300-0000), and thus provide a robust margin of additional protection.

In order to ensure that these noise levels can be maintained, the coffee shop music noise could be monitored and controlled with a limiter. It will be noted during any validation exercise undertaken whether the sound system installed has the potential to exceed the recommended limits, and if this is found to be the case, a noise limiter may be advised.

4.2 External Seating Area

The potential noise impact associated with use of the external seating area has been addressed previously in the Peak Acoustics report ref: CH1010181NRrev.2. It was recommended that the use of the external seating area is restricted to daytime hours only (07:00 – 23:00).

5. Plant Noise Assessment

5.1 Proposed Noise Sources

Noise generating equipment includes roof-mounted cooling equipment and air handling plant as listed in Table 4.

Reference	Description	Operating Hours
OU5, OU6, OU7	3 No. Hitachi RAS-14FSXNSE Air Conditioning Units	Any Time (24hr)
OU4	1 No. Hitachi RAS-16FSXNSE Air Conditioning Units	
OU1, OU2, OU3 & OU8	4 No. Hitachi RAS-18FSXNSE Air Conditioning Units	
AHU1	CIAT Floway Access 3000 Air Handling Unit	

Table 4: Proposed roof-top plant

The noise data provided by the manufacturer is included in Appendix B.

An attenuator schedule has been provided for the air handling unit as detailed in Table 5.

Reference	Location	Description	Duty (l/s)	Duct Size	Height (mm)	Width (mm)	Length (mm)
ATT03	Inlet	CAICE Circular PG01U/1K/L/	871	400	505	505	765
ATT04	Exhaust						320

Table 5: Proposed AHU attenuator schedule

Attenuator insertion losses have been provided by Caice and are shown in the following Table.

Insertion Loss	Octave Band Centre Frequency (Hz)							
	63	125	250	500	1k	2k	4k	8k
ATT03 (Supply Inlet)	1	1	2	6	10	6	6	4
ATT04 (Extract Exhaust)	1	2	4	11	17	8	8	7

5.2 Noise Limits for External Plant

Manchester City Council have specified that externally mounted plant should achieve a Rating Level of 5dB below the typical background (L_{A90}) level at the nearest noise sensitive location.

The nearest noise sensitive location most potentially affected by roof-mounted building services plant are 5th floor east-facing windows of The Vault Apartments. The data most representative of sound levels at this location is Peak Acoustics M1 data. Table 2 details the proposed plant noise limits for daytime and night-time periods.

Assessment Location	Time period	T	Typical $L_{A90, T}$	Target Criteria (dB $L_{Aeq, T}$)
The Vaults east facing 5 th floor windows.	Day	0700-2300	49	44
	Night	2300-0700	46	41

Table 6: Proposed Roof-mounted Plant Noise Criteria

5.3 Results

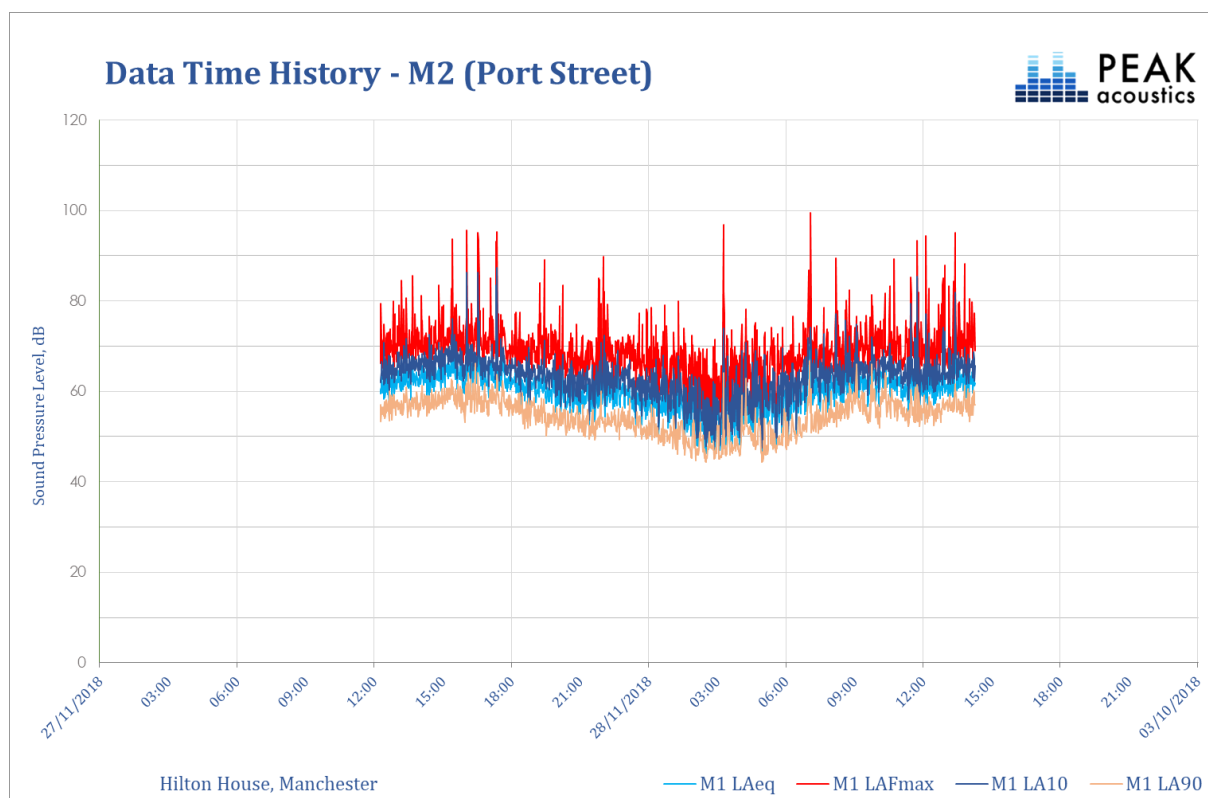
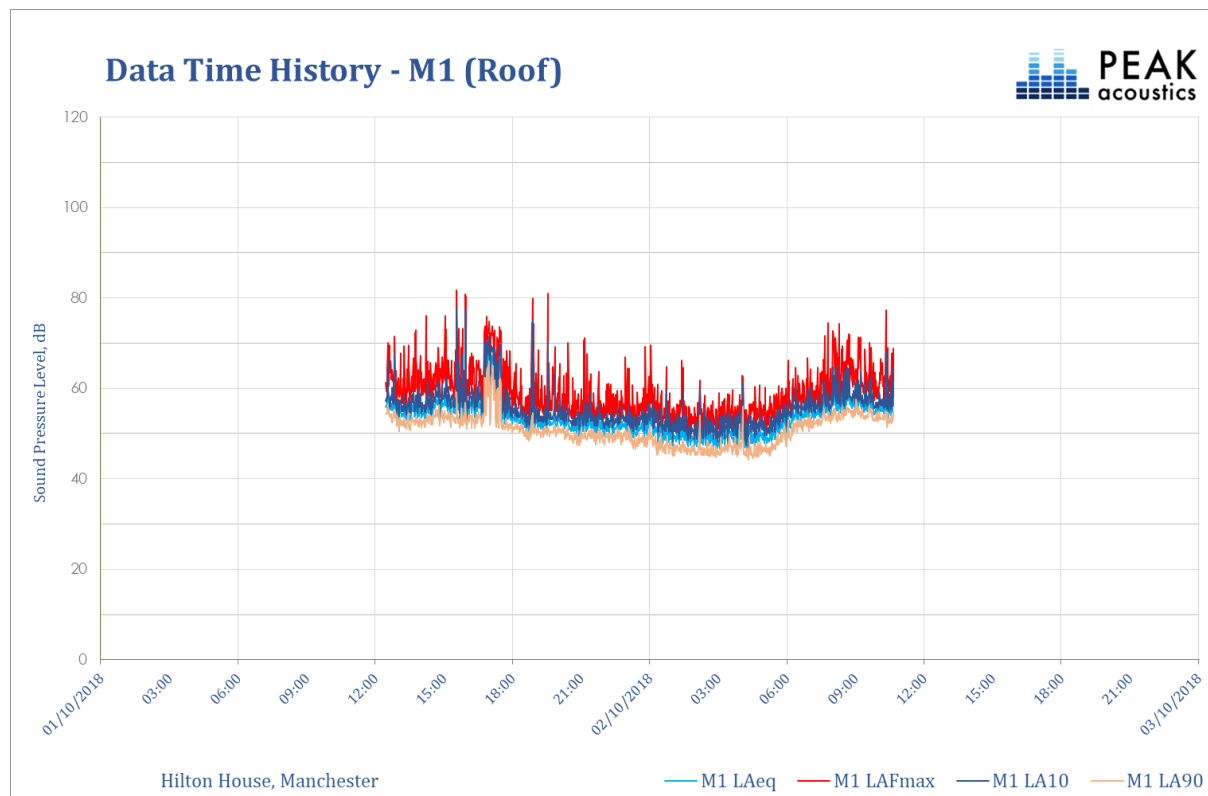
The cumulative noise levels at the most affected receptor position have been assessed using the data above. A new 2.5m high profiled aluminium plant enclosure is proposed at roof level which will provide screening to the receptor position and has been taken into account in the calculations. The enclosure is illustrated in Appendix E. The proposed plant layout is included in Appendix F.

The results are shown in Table 7. A summary of calculations is shown in Appendix B. The target criteria are met and no further mitigation is required.

Assessment Location	Time period	T	Target Criteria (dB L _{Aeq, T})	Results (dB L _{Aeq, T})
The Vaults east facing 5 th floor windows	Day	0700-2300	44	38
	Night	2300-0700	41	34 (Night-mode)

Table 7: Plant Noise Results

Appendix A – Background Noise Graphs



Appendix B – Calculations Summary – Plant Noise

DAY			63	125	250	500	1k	2k	4k	8k	dB(A)
Hitatchi RAS-14FSXNSE			66	68	63	60	57	51	44	42	62
quantity:	3		71	73	68	64	62	56	49	46	67
Hitatchi RAS-16FSXNSE			66	68	63	60	57	51	44	42	62
quantity:	1		66	68	63	60	57	51	44	42	62
Hitatchi RAS-18FSXNSE			67	69	64	61	58	53	45	43	63
quantity:	4		73	75	70	67	64	59	51	49	69
AC units total	1 m		76	78	73	69	67	61	54	51	72
Barrier (AC Units)	2.5 m		-7	-9	-11	-13	-16	-18	-18	-18	
Level at	10 m		49	49	42	36	31	22	16	13	39
Level at	15 m		45	45	38	33	27	19	12	10	35
AHU Extract unit Radiated	10 m		54	52	48	43	43	42	25	25	48
AHU Supply unit Radiated	10 m		54	53	48	44	44	42	25	25	49
AHU radiated	10 m		57	56	51	47	47	45	28	28	51
Barrier (AHU radiating)	2.5 m		-10	-12	-15	-18	-18	-18	-18	-18	
AHU radiating total	10 m		47	43	36	29	29	27	10	10	35
Level at	15 m		43	40	32	25	25	23	6	6	31
AHU Supply unit Inlet (in duct)			55	56	65	62	55	51	43	38	
a-weighting correction			26	16	9	3	0	-1	-1	1	
Linear In duct level	1 m		81	72	74	65	55	50	42	39	68
Silencer			-1	-1	-2	-6	-10	-6	-6	-4	
Barrier (AHU Inlet)	2.5 m		-10	-12	-15	-18	-18	-18	-18	-18	
Correction to	14 m		-23	-23	-23	-23	-23	-23	-23	-23	
Level at	14 m		47	36	34	18	4	3	-5	-6	28
AHU Extract unit Discharge (in duct)			64	62	70	67	69	66	58	54	
a-weighting correction			26	16	9	3	0	-1	-1	1	
Linear In duct level	1 m		90	78	79	70	69	65	57	55	75
Silencer			-1	-2	-4	-11	-17	-8	-8	-7	
Barrier (AHU Exhaust)	2.5 m		-10	-13	-15	-18	-18	-18	-18	-18	
Correction to	15 m		-24	-24	-24	-24	-24	-24	-24	-24	
Level at	15 m		55	40	36	17	10	15	7	7	32
Total AHU Inlet & Exhaust			56	41	38	21	11	16	8	7	33
Total AHU			56	44	39	27	25	24	10	10	35
ALL PLANT AT RECEPTOR			56	48	42	34	30	25	14	13	38
								Target Criterion			45

[illegible]

NIGHT (NIGHT-MODE)			63	125	250	500	1k	2k	4k	8k	dB(A)
Hitachi RAS-14FSXNSE (NIGHT)			61	63	58	55	52	47	41	40	57
quantity:	3		66	68	62	59	56	51	46	44	62
Hitachi RAS-16FSXNSE (NIGHT)			61	63	58	55	52	47	41	40	57
quantity:	1		61	63	58	55	52	47	41	40	57
Hitachi RAS-18FSXNSE (NIGHT)			62	64	59	56	53	47	42	41	58
quantity:	4		68	70	65	62	59	53	48	47	64
AC units total	1 m		71	73	67	64	61	56	51	49	66
Barrier (AC Units)	2.5 m		-7	-9	-11	-13	-16	-18	-21	-24	
Level at	10 m		44	44	37	31	25	17	9	5	34
Level at	15 m		40	40	33	28	22	14	6	1	30
AHU Extract unit Radiated	10 m		54	52	48	43	43	42	25	25	48
AHU Supply unit Radiated	10 m		54	53	48	44	44	42	25	25	49
AHU radiated	10 m		57	56	51	47	47	45	28	28	51
50% duty (night)			54	53	48	44	44	42	25	25	48
Barrier (AHU radiating)	2.5 m		-10	-12	-15	-18	-21	-24	-27	-30	
AHU radiating total	10 m		44	40	33	26	23	18	-2	-5	30
Level at	15 m		40	37	29	22	19	15	-5	-8	27
AHU Supply unit Inlet (in duct)			55	56	65	62	55	51	43	38	
a-weighting correction			26	16	9	3	0	-1	-1	1	
Linear In duct level	1 m		81	72	74	65	55	50	42	39	68
Silencer			-1	-1	-2	-6	-10	-6	-6	-4	
Barrier (AHU Inlet)	2.5 m		-10	-12	-15	-18	-21	-24	-27	-30	
Correction to	14 m		-23	-23	-23	-23	-23	-23	-23	-23	
50% duty (night)			-3	-3	-3	-3	-3	-3	-3	-3	
Level at	14 m		44	33	31	15	-2	-6	-17	-20	25
AHU Extract unit Discharge (in duct)			64	62	70	67	69	66	58	54	
a-weighting correction			26	16	9	3	0	-1	-1	1	
Linear In duct level	1 m		90	78	79	70	69	65	57	55	75
Silencer			-1	-2	-4	-11	-17	-8	-8	-7	
Barrier (AHU Exhaust)	2.5 m		-10	-13	-15	-18	-21	-24	-27	-30	
Correction to	15 m		-24	-24	-24	-24	-24	-24	-24	-24	
50% duty (night)			-3	-3	-3	-3	-3	-3	-3	-3	
Level at	15 m		52	37	33	14	4	6	-5	-9	29
Total AHU Inlet & Exhaust			53	38	35	18	5	6	-4	-8	30
Total AHU			53	41	36	24	19	15	-2	-5	32
ALL PLANT AT RECEPTOR			53	44	38	29	24	18	6	2	34
								Target Criterion			
								41			

Appendix C – Calculations Summary – Gym Noise Breakout

Through Party Wall	63	125	250	500	1k	2k	4k	8k	dB(A)
NR21 Spectrum Curve for Criterion Guidance	52	40	32	25	21	18	15	14	31
Specific Limit Values at 63Hz and 125Hz	47	41							
Adjusted target spectrum	47	40	32	25	21	18	15	14	30
Sound Reduction (Party Wall)	28	34	34	40	56	73	76	78	280mm brick, 56mm cavity, strip ties, outer faces plastered 12mm
Wall area adjustment	-10	-10	-10	-10	-10	-10	-10	-10	Party wall area assumed 3m x 3m = 9m ²
Absorption adjustment	8	8	7	8	9	10	10	10	
Noise Limit in Lobby Area (or stairwell)	73	72	63	64	77	91	92	92	97

Through External Wall	63	125	250	500	1k	2k	4k	8k	dB(A)
Background Noise Level Spectrum	57	51	50	46	47	43	35	27	51
Adjustment re: Spectrum Acoustics Assessment*	47	41	40	36	37	33	25	17	41
Criteria 1m from neighbouring façade (-10dB)	37	31	30	26	27	23	15	7	31
Minimum distance correction	3	3	3	3	3	3	3	3	2.7 m (Using Rathe Method 15m x 2.5m facade)
Sound Reduction External Wall	20	27	31	39	45	50	55	55	Block - 100mm - plastered
Inside to outside correction	6	6	6	6	6	6	6	6	
Noise Limit in Lobby Area	66	67	70	74	81	82	79	71	86

Overall Lobby Limiting Noise Level	63	125	250	500	1k	2k	4k	8k	dB(A)
(Minimum in each octave band from above)	66	67	63	64	77	82	79	71	85

Likely Sound reduction (internal wall)	3	3	3	3	3	3	3	3	Aluminium mesh wall
Estimated limiting noise level in gym	69	70	66	67	80	85	82	74	88

Typical Gym Noise Levels (for guidance)	63	125	250	500	1k	2k	4k	8k	dB(A)
Busy Gym floor with music (LAeq, T)	67	69	66	68	67	65	63	63	72

Period	Sample Period	Night time (2300 – 0700)	LAeq	LA90	LAmaz
1 Car ramp (The Vaults)					
Tuesday 31:08:10					
Wednesday 01:09:10	8-hours	45.9	40.7	69.9	
Thursday 02:09:10	8-hours	45.4	40.5	72.2	
Friday 03:09:10	8-hours	46.1	40.7	75.3	
Saturday 04:09:10	8-hours	48.3	43.1	74.8	
Sunday 05:09:10	8-hours	52.3	45.4	84.3	
Monday 06:09:10	8-hours	47.4	43.5	66.4	
Mean		48	42	74	

* The table shown on the left is from the Spectrum Acoustics Report Ref: PJ2805/10250 dated September 2010. Spectrum Acoustics undertook the original noise assessment for the restaurant. They measured sound levels "At 1m outside the ground floor west façade of Hilton House, overlooking the car park ramp and 'The Vaults' apartment building." This background noise level is considered more representative than that measured on the roof by Peak Acoustics (for the purposes of assessing breakout noise from the gym only).

Appendix D – Calculations Summary – Restaurant Noise Breakout

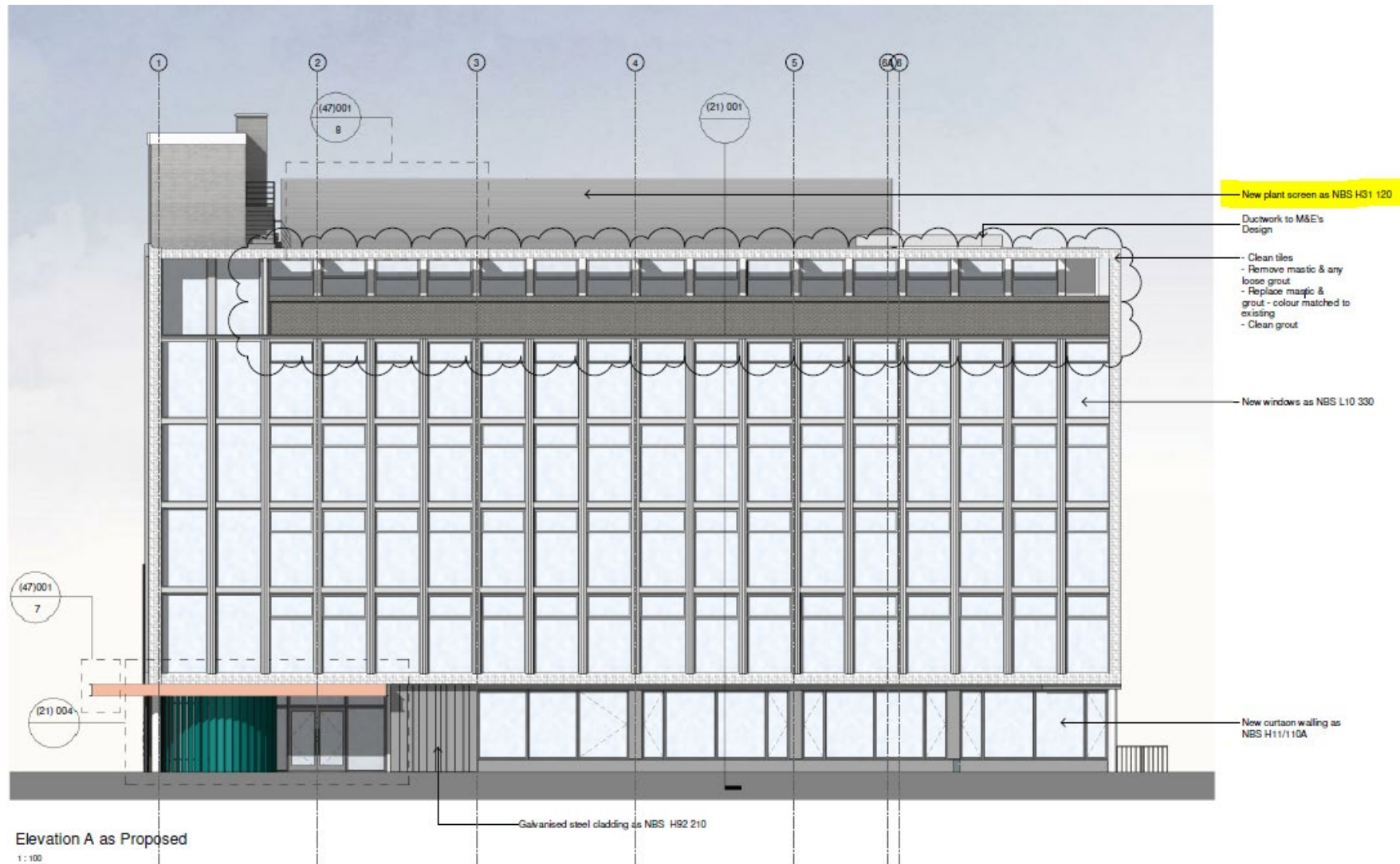
<i>Through Double-Glazed Element</i>	63	125	250	500	1k	2k	4k	8k	dB(A)	
Background Noise Level Spectrum	61	56	51	50	51	47	40	34	55	10th percentile in each octave band from Peak Survey 2 (M2) 2300-0000 hours
Criteria 1m from neighbouring façade (-10dB)	51	46	41	40	41	37	30	24	45	
Sound Reduction External Wall	19	22	20	26	36	39	31	31		Standard thermal double glazing (4-12-4)
Distance Loss Correction	15	15	15	15	15	15	15	15		12.5 m (Using Rathe Method 16.5m x 3m facade)
Inside to outside correction	6	6	6	6	6	6	6	6		
Music Noise Limit in Restaurant	91	89	82	86	98	97	82	76	101	

<i>Typical Restaurant Noise Levels (for guidance)</i>	63	125	250	500	1k	2k	4k	8k	dB(A)
Typical Restaurant: speech and background music	75	72	70	69	65	60	50	48	70
Lively / busy contemporary restaurant: raised speech and higher-level music	80	78	76	79	75	70	60	52	80

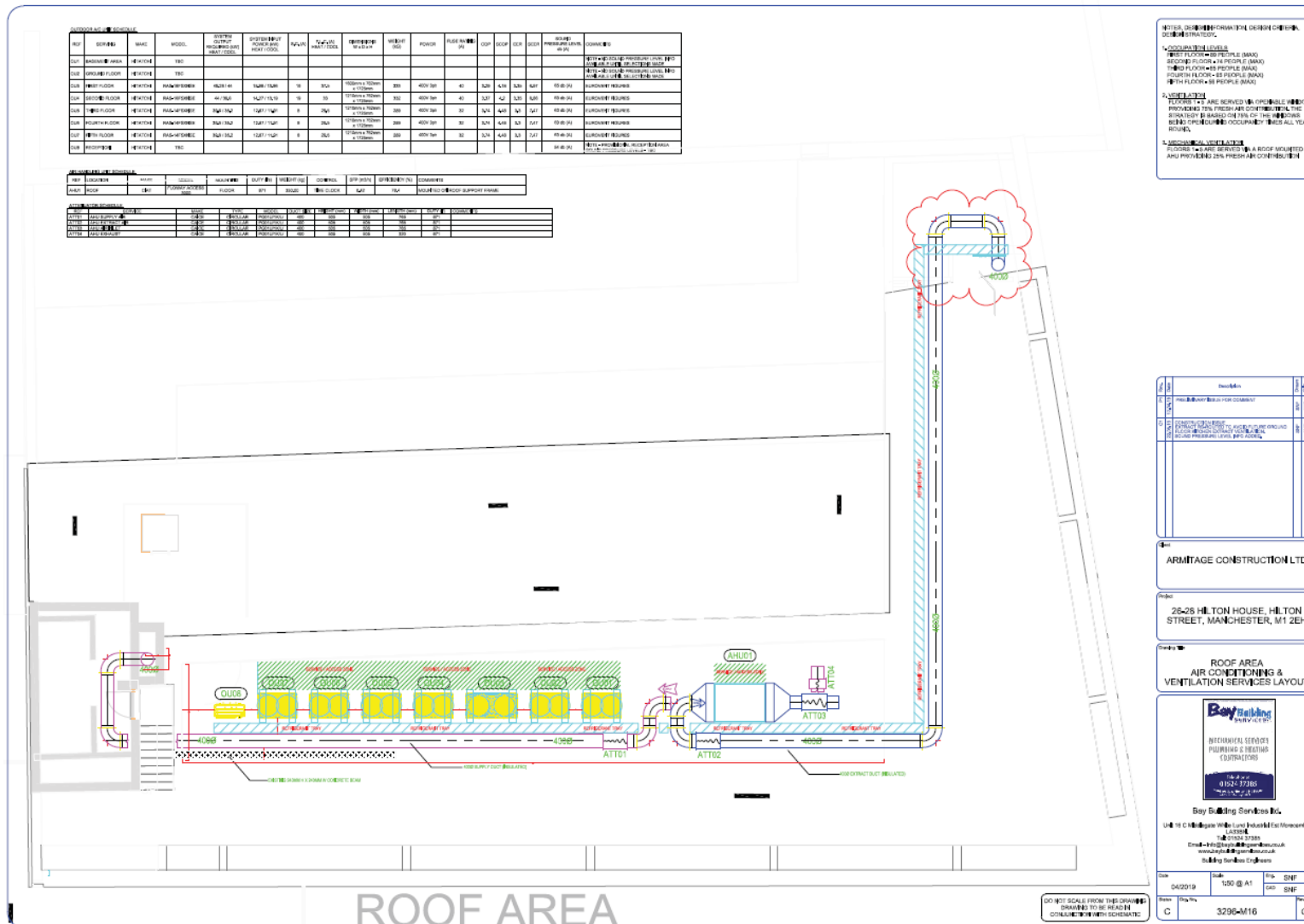
For illustration only:

<i>Through Open External Doors</i>	63	125	250	500	1k	2k	4k	8k	dB(A)	
Background Noise Level Spectrum	61	56	51	50	51	47	40	34	55	10th percentile in each octave band from Peak Survey 2 (M2) 2300-0000 hours
Criteria 1m from neighbouring façade (-10dB)	51	46	41	40	41	37	30	24	45	
Sound Reduction (Open Door) (pessimistic)	10	10	10	10	10	10	10	10		(Source: BS8233 10-15dB open window reduction)
Distance Loss Correction	22	22	22	22	22	22	22	22		12.5 m
Music Noise Limit in Restaurant (doors temporarily open)	83	78	73	71	73	69	62	56	77	

Appendix E – Proposed Plant Enclosure



Appendix F – Proposed Plant Layout





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 Efficiency Services.

Additional Services

We offer an extensive range of services in the sectors of Acoustic Consultancy, Building Compliance & Energy Efficiency Services. 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
- EPCs
- SBEM Calculations
- Energy Statements
- Sustainability Statements
- MEES Regulations
- Commercial EPCs

Acoustic Consultancy

- Noise Assessment for planning conditions
- Construction sitenoise 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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