

Ref: 1001/le/03

28 March 2023

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By email to: rob.paton@omiarchitects.com

Dear Rob

32-34 LAYSTALL STREET, MANCHESTER PLANNING CONDITION 30

Further to your recent enquiry regarding the above project we are pleased to confirm our proposals as detailed below.

1.0 Local Authority Requirements

Manchester City Council have stated the following condition for planning application number 128911/FO/2020:

“30) NEW BUILD- Before the development commences a scheme for acoustically insulating and mechanically ventilating the residential accommodation against noise from adjacent roads shall be submitted to and approved in writing by the City Council as local planning authority.

The approved noise insulation scheme and vibration and reradiated noise mitigation measures shall be completed before any of the dwelling units are occupied.

*The following noise criteria will be required to be achieved:
Bedrooms (night time - 23.00 - 07.00) 30 dB LAeq (individual noise events shall not exceed 45 dB L_{Amax,F} by more than 15 times)
Living Rooms (daytime - 07.00 - 23.00) 35 dB LAeq
Gardens and terraces (daytime) 55 dB LAeq*

Prior to occupation a post completion report to verify that all of the recommended mitigation measures have been installed and effectively mitigate any potential adverse noise impacts in the residential accommodation shall be submitted and agreed in writing by the City Council as local planning authority. Prior to occupation any non compliance shall be suitably mitigated in accordance with an agreed scheme."

2.0 Façade Sound Insulation

Our Acoustic Planning Report 1001/APR1 dated 14 November 2022 details sound insulation performance requirements for glazing (Section 6.6) and trickle ventilators (Section 6.7.1) in order to achieve the internal daytime and night-time requirements specified in Condition 30.

The developer has confirmed that glazing and trickle ventilator selections will be made at the appropriate time to ensure that the specified sound insulation performance requirements are achieved.

Based on the above, the internal daytime and night-time requirements specified in Condition 30 should be achieved by external noise break-in via the façade.

3.0 Mechanical Ventilation

Mechanical ventilation proposals have been received from Hurstwood Environmental and an assessment of internal noise levels within flats due to the operation of the proposed building services has been undertaken.

The assessment has been based on the following mechanical services ventilation layout drawings.

Author	Drawing No.	Revision	Date
Hurstwood Environmental	220019-HEC-ZZ-GF-DR-M-5701	P1	08.12.22
	220019-HEC-ZZ-01-DR-M-5701	P1	07.12.22
	220019-HEC-ZZ-02-DR-M-5701	P1	07.12.22
	220019-HEC-ZZ-03-DR-M-5701	P1	07.12.22
	220019-HEC-ZZ-04-DR-M-5701	P1	07.12.22
	220019-HEC-ZZ-05-DR-M-5701	P1	07.12.22
	220019-HEC-ZZ-06-DR-M-5701	P1	07.12.22
	220019-HEC-ZZ-07-DR-M-5701	P1	07.12.22
	220019-HEC-ZZ-08-DR-M-5701	P1	07.12.22

The proposals include a KERS MEV Indoor Heat Pump unit (KERS MVHR-W200) serving each flat with Exhaust air ducted to grilles in the façade of the building. The KERS MEV Indoor Heat Pump units are situated in a utility cupboard within each flat and ducted to kitchens, bathrooms and en-suites within the flat. Fresh air is provided via the trickle ventilators in the façade of the building.

It is understood that the KERS MEV Indoor Heat Pump units operate at 41l/s at 54Pa for flats with single bathrooms and 56l/s at 54Pa for flats with double bathrooms.

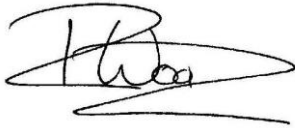
Based on the noise data received from Hurstwood Environmental, it is recommended that the insulation "hood" is fitted to the units and that the utility cupboard door is solid core and well fitting in order to minimise breakout sound from the KERS MEV Indoor Heat Pump unit to occupied spaces of the flat.

Based on the noise data received from Hurstwood Environmental, it is recommended that the Extract duct to the KERS MEV Indoor Heat Pump units is fitted with a silencer as specified in the attached Silencer Schedule in order to achieve the internal daytime and night-time requirements specified in Condition 30.

Based on the above, the internal daytime and night-time requirements specified in Condition 30 should be achieved by mechanical ventilation noise.

We trust the above to be clear and of assistance, however, should you have any queries please do not hesitate to contact us.

Yours sincerely
for LIGHTHOUSE ACOUSTICS

A handwritten signature in black ink, appearing to read 'Robin Wood', with a stylized flourish underneath.

Robin Wood

Ref: 1001/SS1

Date: 28 March 2023

Revision: -

Comments:

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Plant Ref.	Description	Inlet/Outlet	Vol. (l/s)	Typical Length (mm)	Face Velocity (m/s)	Pressure Drop (Pa)	Insertion Loss (dB) at Octave Band Centre Frequency (Hz)							
							63	125	250	500	1k	2k	4k	8k
KER-###	KERS MEV Heat Pump Single Bathroom	Extract	41	500	-	-	0	0	4	7	19	19	21	22
KER-###	KERS MEV Heat Pump Double Bathroom	Extract	56	500	-	-	0	0	4	7	19	19	21	22