

ANGLIA CONSULTANTS

Specialists in Environmental Noise, Vibration and Building Acoustics

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M: [REDACTED]
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To: WYDesign Ltd
Attn: Wilson Yu

By Email

26 April 2024

RE: 35 Grays Inn Road, London WC1X 8PG

Dear Wilson

Thank you for the information on the development at 30 Kings Mews to the rear of 35 Grays Inn Road. It appears that bedrooms/living rooms are to be located on the rear façade and clearly the proposed plant layout for 35 Grays Inn Road will not comply with the requirements of Camden Council.

The scheme will need to be redesigned by the M&E engineers to significantly reduce noise levels at the rear façade of 30 Kings Mews. Based on the results of the predicted noise levels in our report to Focus 360 of 7th November 2023, the following mitigation measures would be needed to reduce plant noise level to below the daytime background noise level of L_{A90} 48dB. There is no night time operation of the plant.

1. The condenser units numbered 1 to 4 shown in Figure 1 of the noise report would need to be covered with acoustic enclosures each giving an attenuation of 10dB. These can be obtained from noise control engineers such as Noico Ltd.
2. The extract fan, item 5, would need to be located internally, typically with a 1200mm attenuator and some of the ductwork may also need to be repositioned at it is currently located within 1m of a living room window, depending on the revised fan noise emission level.
3. The air intake fan, item 6, is the current major noise source and would need to be replaced with a quieter model and located internally with attenuators and with an intake duct located towards the centre of the restaurant roof.
4. The extract fan, item 7, is low noise with a case breakout level of 29dB(A) at 4m and may need to be replaced, depending on the cumulative noise level of the revised plant.

The measures are considered from an acoustic viewpoint as the practicability needs to be assessed by the M&E engineers. The objective would be to achieve a cumulative plant noise level of 40dB(A) or less at the rear façade of 30 Kings Mews. The noise emission levels of a revised layout will be redetermined when available.

Your sincerely

[REDACTED]

John Hyde