APPENDIX 6.0

EXTERNAL NOISE LETTER FROM EEC

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Our Ref: TM/EC20561-4

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Greenacres Limited
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For the attention of Dory Gabbay

Dear Dory

Re: 8 Gloucester Gate, London NW1 4HG

We write in connection with regard to the above property and your question in relation to the ingress of ambient noise through the facades.

Our noise survey was undertaken at the rear of the property and recorded the following levels during the day and night time periods:

Period	Average $L_{Aeq,T}$ – dB
Day time (0700-2300 hrs)	57
Night-time (2300-0700 hrs)	48

Ambient and maximum noise levels

BS8233:2014, 'Guidance on sound insulation and noise reduction for buildings', section 7 gives guidance on acoustic criteria and noise levels appropriate for various internal spaces that have different functions. Section 7.7 relates specifically to buildings having a residential purpose and offers guidance on appropriate internal ambient noise levels for dwellings (when unoccupied) with specific consideration:

i. for bedrooms, the acoustic effect on sleep; and

ii. for other rooms, the acoustic effect on resting, listening and communicating.

The guidance applies to external noise as it affects the internal acoustic environment from sources without a specific character i.e. anonymous noise.

Table 4 of section 7.7.2 recommends the following internal noise limits based on the presence of steady, external noise sources:

Table 4 **Indoor ambient noise levels for dwellings**

Activity	Location	07:00 to 23:00	23:00 to 07:00
Resting	Living room	35 dB $L_{Aeq,16hour}$	—
Dining	Dining room/area	40 dB $L_{Aeq,16hour}$	—
Sleeping (daytime resting)	Bedroom	35 dB $L_{Aeq,16hour}$	30 dB $L_{Aeq,8hour}$

The guidance criteria are based upon research and existing guidelines provided by the World Health Organisation, 'Guidelines for Community Noise'. The document also indicates that for good sleep quality, indoor sound pressure levels should not exceed approximately 45 dB L_{Amax} more than 10–15 times per night. (Para 3.4 of the Guidelines).

It is generally considered that the sound insulation provided by a partially open window will be 10-15dB, dependent on window type, extent of opening and source frequency content.

Given the above limits and measured noise levels at the rear of the property, we would expect the following internal levels with partially open windows within rooms common to that facade:

Period	Internal noise level $L_{Aeq,T}$ – dB	BS8233 limit $L_{Aeq,T}$
Day time (0700-2300 hrs)	42-47	35
Night-time (2300-0700 hrs)	33-38	30

Internal ambient noise levels with open windows

It is noted that the internal ambient noise level limits are exceeded with windows open.

A further review of the noise levels overnight indicates that a significant source of noise during the survey (May 2024) included birdsong, notably not an anonymous noise source and one that can also be very distinctive and noticeable. Further analysis of the maximum noise levels indicates that the 45dB L_{Amax} limit would be exceeded by some margin during these periods and could well lead to sleep disturbance, depending on personal tolerance to such noise.

We cannot comment on the actual levels at the front of the property as we have not surveyed on that elevation. It may though be the case that it could be slightly noisier on this elevation.

We trust that the above assists and is sufficient to inform further discussion.

Yours sincerely

Tim Meed BSc(Hons) MIOA
Technical Director