

Objection 2021/1860/P 11 Belsize Crescent Acoustic Report 25/10/2021

We start by saying we fully support all aspects of environmental improvement,
However this report uses words “likely” “ will not” various cut and pastes that follow below:

Executive Summary

Noise control recommendations are required to meet the likely planning requirements of Camden Council. The predictions show that the noise from the plant will be at least 10dB below the lowest measured background noise level at 1 metre from the nearest residential window.

1.2 The development is for the installation of 2 air source heat pumps and one air conditioning condenser unit. The equipment will operate intermittently over a 24-hour basis but will not be audible above the residual ambient noise level. The plant to be installed are 2 Daikin EHBH16CB3V air source heat pumps and 1 Daikin RXYSCQ5TV1 air conditioning condenser unit.

1.3 The air source heat pumps and air conditioning condenser unit will be located on the roof of 11 Belsize Crescent and screened from the nearest window by the chimney breast and the lack of line of sight to the nearest window

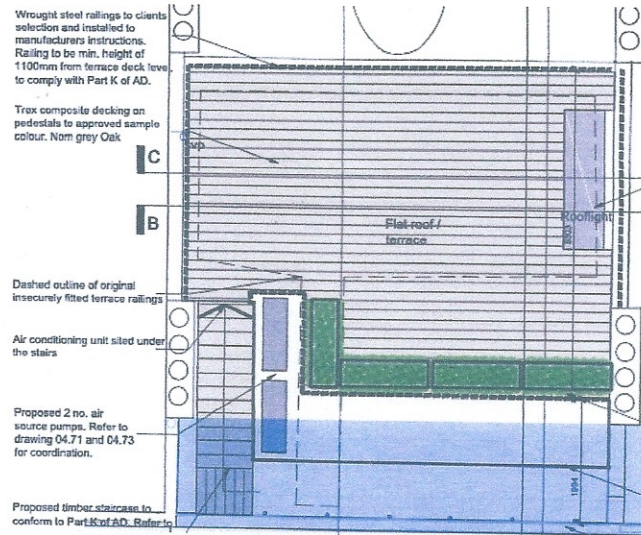
The above words would lead anyone to believe that these machines will not be heard in our home and bedrooms of 13 Belsize Crescent, but is that the case?

The report ignores the roof ventilation/light next to the low level party wall see pdf's below, the first is a copy and paste from the Acoustic Report, the second shows the missing roof vent/light indicated by the blue rectangle, the existence of this vent/roof light is evidenced on The third pdf of page 5 Figure 1

11 Belsize Crescent Acoustic Assessment



Figure 2.



11 Belsize Crescent Acoustic Assessment

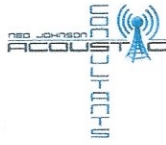


Figure 2.

Wrought steel railings to clients selection and installed to manufacturers instructions. Railing to be min. height of 1100mm from terrace deck level, to comply with Part K of AD.

Trex composite decking on pedestals to approved sample colour. Nom grey Oak

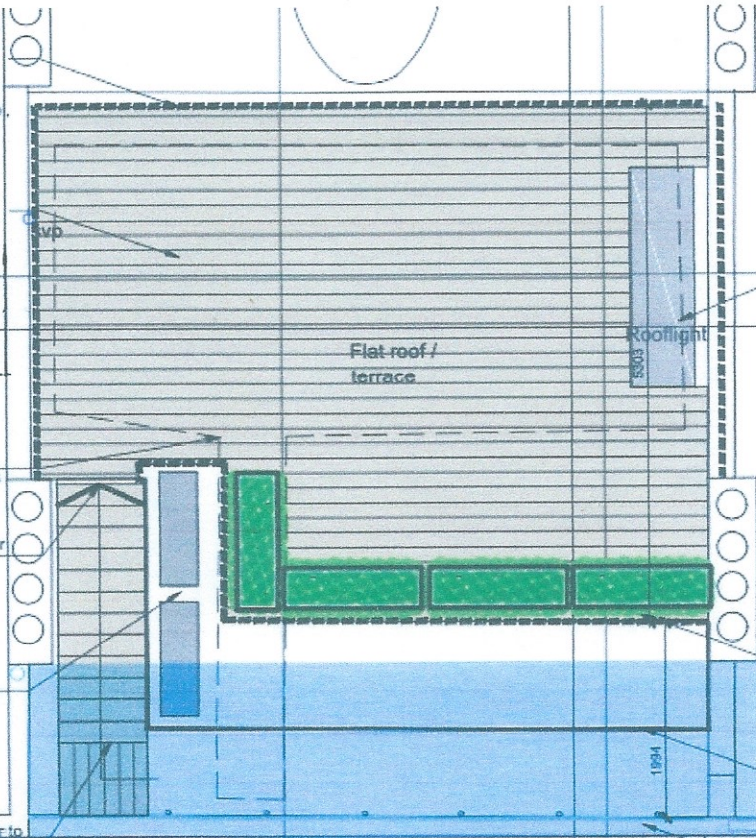
**ROOF LIGHT
VENT
IS BELSIZE CREAS**

Dashed outline of original insecurely fitted terrace railings

Air conditioning unit sited under the stairs

Proposed 2 no. air source pumps. Refer to drawing 04.71 and 04.73 for coordination.

Proposed timber staircase to conform to Part K of AD. Refer to



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2. Site Description

- 2.1 The main source of noise at this location is road traffic travelling the local road network. The area is relatively quiet with no other obvious sources of noise.
- 2.2 Figure 1 below shows the location of the development; the measurement location is shown below (MP1).

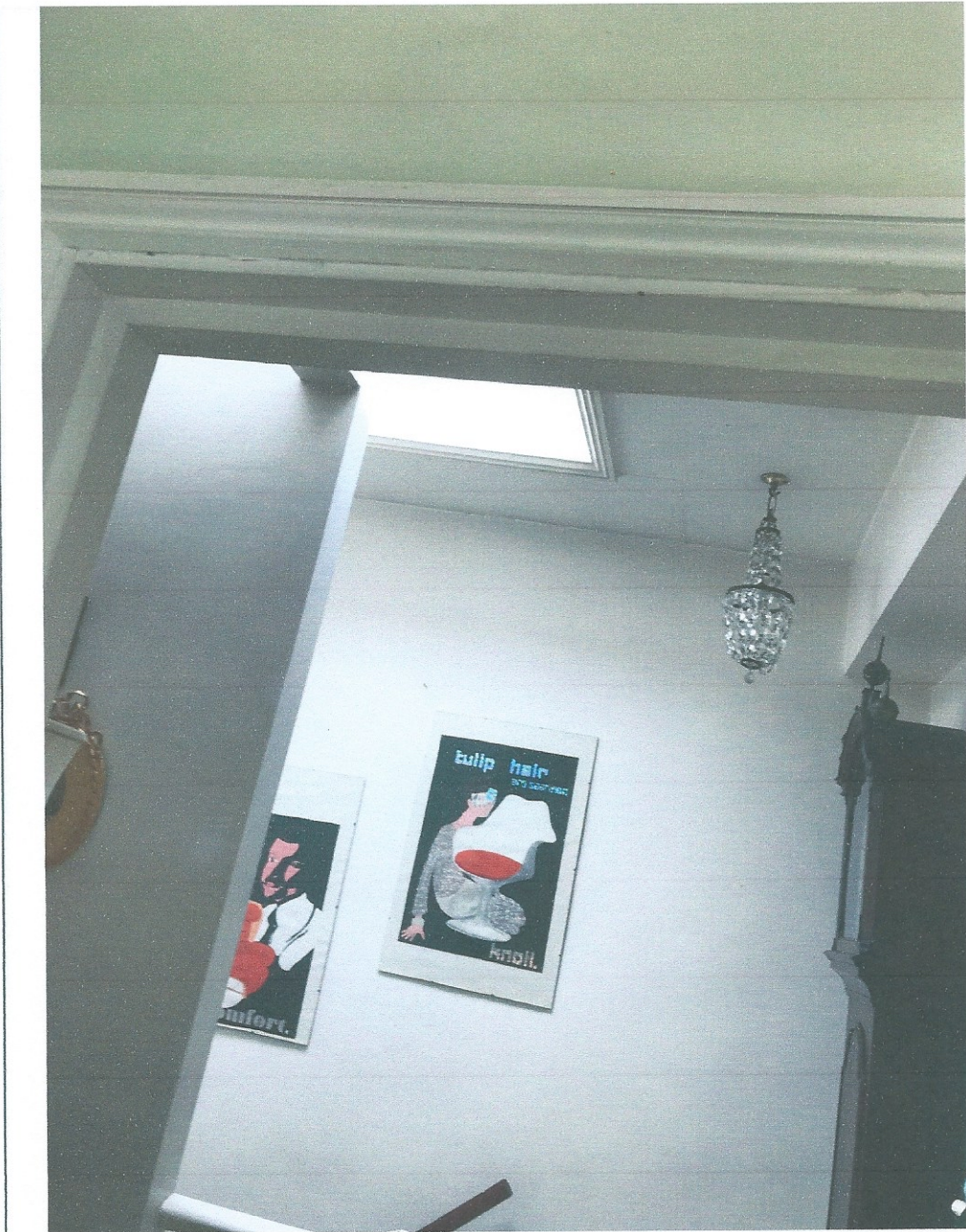
Figure 1.



2.3 Figure 2 below shows the plant locations.

UNSHOWN ROOF LIGHT/VENT

5



13 Belsize Crescent Vent/Roof Light from internal Bedroom 1

3 Reference Documents

All these documents require enhancement and improvement to local environment and not adverse impacts from noise below are report extracts that support these requirements

3.2 a “mitigate and reduce to a minimum potential adverse impacts resulting from noise from new development – and avoid noise giving rise to significant adverse impacts on health and the quality of life.

3.14 In particular BS4142 describes the “use outdoor sound levels to assess the likely effects of sound on people who might be inside or outside a dwelling or premises used for residential purposes upon which sound is incident.” It sets out a methodology for assessing a noise Rating level which is a combination of absolute or ‘specific’ noise level (in terms of LAeq average noise level over different durations; 1 hour for daytime and 15 minute at night); and then including penalties to account for character of a noise (i.e. tonality, impulsivity, intermittency and ‘other’).

6 Evaluation of Results

6.3 The above results demonstrate that the noise from the proposed plant would have a low impact. The predicted sound pressure level at the nearest noise sensitive receptors would meet with the likely requirements of Camden Council for plant noise.

6.4 In terms of BS4142 penalties, the plant will operate intermittently, but the noise will not be readily distinctive against the residual acoustic environment at the nearest noise sensitive receptor and no penalty has been added.

6.5 The noise level due to the plant at the nearest receptor is a result of the attenuation with distance and the installation of a barrier. (see Appendix 5 for calculations). The air conditioning condenser is located under a wooden staircase leading to the flat roof and has no line of sight to the nearest window and is completely screened by a wall. The air source heat pumps are on the flat roof and are screened from the nearest window by a chimney breast. As the chimney breast does not provide enough sound attenuation on its own to reduce the plant noise from the air source heat pumps to 10dB below the lowest measured background noise level, the barrier is required to provide the extra attenuation necessary.

6.6 The barrier must have a minimum sound attenuation of 15dB, which can be achieved with a solid-boarded wooden panels, with a minimum mass of 20Kg/m². An example of such performance can be found using Jackson's Jakoustic Reflective Barrier. The barrier must be higher and wider than the air source heat pumps by a minimum of 10% of their dimensions.

Final Comments from 13 Belsize Crescent

This report starts at no problem with noise from the 2 Heat Pumps & Air Con Compressors as they will operate 24 hour below the background noise and won't be heard by neighbouring properties and then leaps to the need for acoustic barriers to reduce operational noise levels, the simple solution is to place the noise producing elements in the gardens and sound screened.

We attach below our original objection for convenience and agree with the officers views contained therein, this a huge house with front and rear gardens any of their machine requirements do not need to be on the roof.

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