

From: Neil Morgan <neil@inacoustic.co.uk>
Sent: 01 June 2017 11:39
To: rahul taheem
Cc: riatpaul@yahoo.co.uk; Lakshmi Kanthan; Antony Best
Subject: Re: 170491/FUL and 170492/FUL- 163-165 Caversham Road [OFFICIAL]

Importance: High

Rahul / All,

Please see my respective responses below:

LPA: The noise assessment submitted (inacoustic Noise Assessment Project Number 16-234 15 March 2017) demonstrates that the noise levels at the Caversham Road monitoring location exceed the internal noise level guidelines as set out in BS8233:2014. However, it suggests that the target daytime and night-time internal noise levels can be achieved through suitable selection of glazing and ventilation. To that end a suggestion for thermal double glazing and hit and miss trickle vents has been offered and it is noted that the only current form of ventilation is openable windows. Our guidance regarding ventilation is as follows:

Response: The assessment provides a specification for acoustically uprated double glazed units, plus an acoustic specification for background/trickle ventilators, as required by BS8233:2014 and Part F of the UK Building Regulations. The requirement for achieving BS8233:2014 internal levels alongside higher than background rates of ventilation is a higher-than-typical requirement, which will require input from a building services engineer.

LPA: *'Noise mitigation is likely to focus on the weak point in the structure; glazing. Given that the acoustic integrity would be compromised should the windows be opened, ventilation details must also be provided, where mitigation relies on closed windows. Ventilation measures should be selected which do not allow unacceptable noise ingress and should provide sufficient ventilation to avoid the need to open windows in hot weather, however non-openable windows are not considered an acceptable solution due to the impact on living standards....'*

Response: The specification provided identifies the required D,n,e,w statistic for the ventilation system, alongside an example background/trickle unit that would achieve this. Should the local authority require a higher airflow rate, such as would be required to allow comfort cooling or purge ventilation, without the need to open a window, then the advice of a buildings services engineer should be sought, who will be able to specify such a system, taking due account of the acoustic performance requirements stated in our report.

LPA: *'Where opening windows will lead to an internal noise level increase of 5 dBA or greater above BS 8233:2014 recommended internal levels, the scheme shall include provision of alternative mechanical ventilation with minimum performance equivalent to a mechanical heat recovery (MVHR) system with cool air bypass as an alternative means of cooling and ventilation. Noise from the system should not result in BS8233 internal levels being exceeded.'*

Response: The project may not require full MVHR, but a mechanical ventilation system that achieves the following acoustic specifications (for noise generated by the operation of the system itself), while also achieving the appropriate airflow rates:

- Bedrooms: 30 dBA (23:00-07:00) at 1.5m from any ventilation aperture
- Living Rooms: 35 dBA (07:00-23:00) at 1.5m from any ventilation aperture

LPA: The applicants are asked to consider the above and provide confirmation/further information as may be necessary regarding the proposed glazing and ventilation measures which will satisfy the requirements for internal noise levels.

Response: Details to be provided by a building services engineer, taking account of our stated acoustic requirements.

LPA: The assessment notes that the detailed design of the proposal will affect the final selection of appropriate glazing and ventilation units in order to ensure the required standards are met. To follow on from that, due consideration should be given to the layout/arrangement of the residential accommodation to minimise noise impacts as far as possible, for example, ensuring that noise sensitive rooms are located on the quieter façades and bathrooms, kitchens, hallways and cupboards etc. on the noisiest facades.

Response: The assessment considers the currently proposed layout and room volumes, alongside an assumption of furnished rooms with hard floors - a reasonable worst case. If any amendment is made to the layout, or room sizes previously considered and assessed, then the report will require revision. If no changes are proposed, then the report is acceptable in its current form.

I hope the above is clear and of assistance.

Kind regards

Neil



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On 30 May 2017, at 16:54, rahul taheem <rahulktaheem@hotmail.co.uk> wrote:

<163-165 Caversham Road 170491.doc>