

WILES & MAGUIRE

ACOUSTIC ASSESSMENT

Application number: 135440/FO/2022

Proposal: Creation of holiday accommodation (Use Class C3) and external alterations to existing building including new rear wheelchair access door, alterations to boundary treatment, replacement and installation of new windows, new rainwater pipe and remodelling of part of existing roof.

Location: 41 Liverpool Road, Manchester, M3 4NQ

An acoustic assessment would be required for this change of use, which provides details of the existing noise levels in the area including levels during daytime, night time and weekends along with an indication of noise levels that you propose to achieve within the accommodation. External heat pumps are proposed as part of the scheme. Please provide details regarding the noise output from any external equipment and any acoustic attenuation measures you are proposing to install to limit the breakout of noise from the units.

SURVEY PROCESS

An acoustic survey and assessment has been commissioned from AEI acoustics of Wakefield and recording commenced on Friday 25th November. An initial statement is provided here and this will be expanded as the survey information is received and processed.

Architect's comments on acoustic design considerations

We are aware that with a change of use from office to holiday accommodation there will be people now sleeping on site where they have not done so before. Externally there are the usual sounds of any city as well as the specific noise associated with the adjacent high level rail line approaching Piccadilly Station.

While this will be a change for this building the district is a mixed use of commercial and residential buildings with many homes sharing the same acoustic environment. Compared to being alongside the urban motorway, for instance, background noise is not excessively loud or constant through the night.

Visitors are not in this building for extended periods and the proximity to the railway is one of the unique and celebrated benefits of the building. We do not feel that the basic level of background noise in the area will affect the future sustainability of this development.

The design changes that we propose on this site to reduce heat-loss through the fabric also have a positive impact in reducing any residual sound transmission. This is particularly the case for the windows where we are changing to sealed unit double glazing and sashes that have air seals at their edges.

The external brick walls are solid and thicker than a typical Victorian house. These will be solid enough to resist many sound frequencies on their own and the proposed addition of an insulation board inner lining will only increase the level of protection.