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66 Old Fort Road, Shoreham by Sea

Application to discharge planning condition 03 of application AWDM/2199/21 relating to:-

Construction works shall not commence until a scheme is submitted to and approved by the local planning authority for attenuating all external fixed plant. The scheme shall have regard to the principles of BS 4142:2014+A1:2019 and ensure there is no detrimental impact to the nearest residential dwellings. A test to demonstrate compliance with the scheme shall be undertaken within one month of the scheme being implemented. All plant shall be mounted on anti- vibration mounts and maintained in accordance with manufacturer's guidance and any future plant shall also meet the specified levels within the approved scheme.

To be read in conjunction with accompanying technical documents.

External fixed plant - Proposed Air Source Heat Pump (ASHP)

It is proposed to use the Ecodan R32 Monoblock Air Source Heat Pump to serve this new dwelling. There are no proposals to attenuate this ASHP. It will be mounted on anti-vibration mounts and will be maintained in accordance with the manufactures guidance.
This ASHP is noted under 'Key Features' in their technical literature as achieving 'Ultra quiet noise levels'. From the published sound data this suggests the noise level of the ASHP unit at 1m away is 45dB(A).

Location of proposed Air Source Heat Pump

The proposed position of the ASHP is on the north wall to the garage, being approximately 3m away from a double-glazed door serving the east elevation of the existing neighbouring dwelling 64 Old Fort Road. It should be noted that a planning application is currently being considered for a replacement dwelling at 64 Old Fort Road (AWDM/1062/22) that indicates that the nearest east facing window will be approximately 10m away from the location of the proposed ASHP at 66 Old Fort Road.

Comparison of dB level.

For comparison purposes and examples of decibel levels of common sounds, it can be seen from the accompanying information that a dishwasher under 45dB is considered to be 'very quiet' and a dishwasher of between 45-49dB is considered to be in a sound range of 'a suburb during the daytime'. It is also suggested that 45dB sits somewhere between a library/bird calls and a quiet suburb or conversation at home. We have not accounted for the noise reduction of the timber enclosure indicated on the accompanying ground floor plan.

Conclusion

The proposed ASHP, having a noise level of 45dB(A) at 1m, located on the north wall of the proposed garage, some 3m from a glazed door serving the existing neighbouring property and approximately 10m away from any window to the proposed neighbouring property, is considered acceptable.

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