

Pizza Hut Noise Control



Pizza Hut sought planning permission to build a new small town restaurant in a central location. The proposed restaurant would operate until late at night. The local Environmental Health Department was concerned about potential noise impacts on local residents and required an Environmental Noise Impact assessment as part of the planning application.

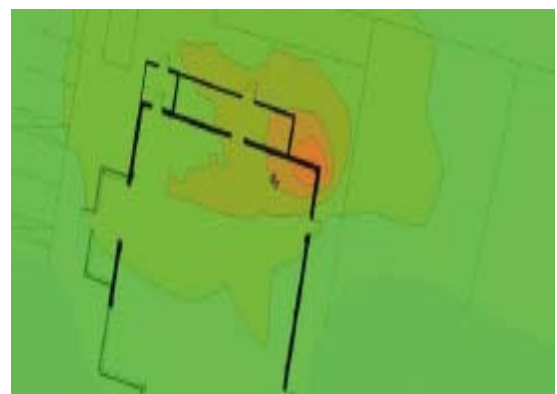
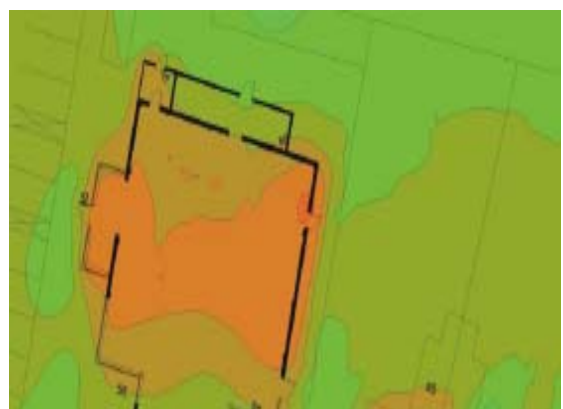
The nearest house was within 10m of the site boundary with a bedroom window directly overlooking the mechanical plant on the roof of the proposed restaurant building.

A baseline survey was carried out to confirm background noise levels in the next door garden. Noise was measured at an existing Pizza Hut restaurant elsewhere to obtain representative source estimates. An advanced three dimensional computer model was used to predict noise from the fixed plant and service yard deliveries.

The client had specified that the frontage and layout could not be altered, in order to ensure maximum visibility from the main road. An amended layout was developed within this constraint, working with the project design team architect and mechanical engineer.

The design solution involved reconfiguring the service yard; enclosing the fixed plant within the roof space; and upgrading the noise attenuation properties of the roof panels. These design amendments avoided changing the overall building appearance and layout.

The resultant design met all the local authority's environmental noise criteria and the development received planning permission with no objections.



The Airshed