

Case Study

Project

The Portal, Land at Gypsy Corner,
North Acton

Client

Create Future Ltd

Overview

IDOM provided noise and vibration assessment as part of a larger Geo-environmental assessment which feed into detailed layout design for a successful outline planning application for a mixed-use high-rise apartment block with commercial space, office space, rooftop amenity space and balconies. This 36 storey development provided complex acoustic considerations including underground railway lines, industrial noise sources, a major road network and the proposed HS2 railway which will pass close to the development site. IDOM undertook comprehensive assessment to assist at the detailed design stage with mitigation through good design practices providing a suitable audible environment for future site users.

Services Provided

- Preparing technical acoustic reports to support outline planning application.
- Environmental Noise Assessments including BS8233, BS4142 and vibration impact assessments using measurement and modelling techniques to assess a complex setting. The development proposals included high-rise apartments above commercial retail units in a town center setting adjacent to a busy road network, underground and over ground railway lines. The assessments also include consideration of existing residential neighbours who are in close proximity to the development scheme.
- Acoustic modelling of future year road traffic noise from the immediate road network with the use of CadnaA software.
- Vibration impact assessment calculations at height through concrete high-rise structures from underground rail and adjacent road network vibration sources.
- Assessment of future noise sources from high speed railway proposed within close proximity of the development site.

