

Noise impact assessments

Information requirements for permit applications that include computer modelling or spreadsheet calculations

When submitting your noise impact assessment as part of your permit application you must:

1. Provide the information requirements listed on page 2 of this note.
2. Clearly state any assumptions used in the computer model or spreadsheet
3. Submit all noise modelling files or spreadsheets.

Please note that we do not require assessments of off-site traffic or construction noise.

Version 4, April 2016

Information requirements

General

- Description of site location and layout, proposed activities, noise sources, noise remediation approach and local receptors.
- Map showing site and surrounding area including receptors.
- Site plan with installation boundary.
- Provide a full noise survey report if a BS4142 assessment has been carried out (see BS4142 'Information to be reported').
- Proposed noise mitigation measures and supporting evidence.

Noise data

- Noise Sources (all fixed and mobile plant plus noise emitting buildings) – grid references*, referenced sound power levels (octave band preferably), heights, directivities, operating times.
- For noise emitting buildings give corner grid references, heights, octave band reverberant sound pressure calculations or measurements, referenced octave band transmission coefficients and façade emissions. Include roof emissions. Account for building aperture emissions (grid references, sound power levels, dimensions, opening times).
- For site traffic include grid references for site roads and estimates for vehicle sound power levels, traffic numbers and speed.
- Site buildings (whether acoustically emitting or not) – grid references of corners, heights. Also off-site buildings that may affect sound propagation to receptors. This data is required to calculate acoustic screening and reflections.
- Site acoustic barriers - grid references of ends, construction details, thicknesses, heights.
- Terrain data – where screening by buildings or barriers is relied on for noise attenuation it can be important to have accurate heights for sources, barrier/ buildings and receptors. Use high resolution spot heights or contours. The terrain data should be incorporated into the model, do not submit separate copyrighted terrain files.
- Receptors – give reason for selections, grid references, addresses or other identification, number of storeys (estimate sound pressure levels for each storey), sensitivity, BS4142 background LA₉₀ and estimated/measured specific and rating LA_{eq} values for site activities. Provide the rationale for application or non-application of any acoustic penalties.

*1m resolution National Grid references required for all location data

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