

Construction Site Surveys and Environmental Impact Assessments

Monitoring Noise and Vibration for the Construction Industry

Noise & Vibration Monitoring

The monitoring of noise & vibration from construction sites is becoming more commonplace as standards and regulations become more developed. Modern construction companies must take noise and vibration seriously and often require an independent contractor to complete the assessments.

Xi engineers are able to produce accurate construction site noise and vibration assessments using our in-house measurement and modelling capabilities.

- Noise & vibration monitoring. Using automated equipment at locations agreed by contractor and local authorities.
- Real-time monitoring levels available online
- Environmental Impact Assessments (EIA)
- Noise mapping for noise pollution predictions
- Reporting and guidance on noise mitigation measures. Including acoustic barriers and trenches
- Detailed reports for post project conclusions

Additional Surveys

The engineers at Xi are able to complete additional surveys for the construction industry with regards to site machinery and measurements

- Whole Body Vibration (WBV) Surveys
- Hand Arm Vibration (HAV) Surveys
- Construction site dust monitoring
- Noise and vibration assessments of rotating machinery
- Crack monitoring

Standards and Regulations

To ensure that the data being recorded is relevant for the contractor and local authorities, Xi adheres to British and ISO Standards.

- Control of Pollution Act 1974
- Environmental Protection Act 1990
- Control of Noise at Work Regulations 2005
- Control of Vibration at Work Regulations 2005
- BS 1996-2 Determination of environmental noise
- BS 4142 Method for rating industrial and commercial sound
- BS 5228 The Code of practice for noise and vibration control on construction and open sites
- BS 6841 Guide to measurement of WBV
- BS 7385 Evaluation and measurement for vibration in buildings
- BS 8041 Human response to vibration



Capturing baseline noise measurements at a construction site near a motorway to determine the baseline dB level before work begins