



SHAKE RATTLE & ROLL

VIBRATION ASSESSMENT
SOMERSET COUNTY COUNCIL
ECONOMY & PLANNING

Vibration Assessment

Assessing the level and frequency of vibration may be required for a number of reasons:

- To assess risk of building damage
- To assess residential impact
- To assess risk to employee health
- To provide commercial product information

Vibration impacts on a building may result from highway faults, engineered ground works and quarry development. In most instances of quarrying and large development projects there will be vibration planning limits. Limits however do not prevent residents experiencing considerable anxiety as perceptible vibration is often wrongly thought to result in damage to their building. In some cases the sporadic nature of such events makes them difficult to demonstrate. Measurement assessment and explanation of findings can help to reduce and address complaints or identify when mitigation measures are required.

Vibration in the workplace is controlled under The Control of Vibration at Work Regulations 2005 and this prescribes limits for Hand Arm Vibration and Whole Body Vibration. Measurements can help an employer establish the provision of safe working environments.

Vibration measurement can help to determine the sources of mystery noises. In some cases secondary sound emission can be traced to a source of vibration that may not be obvious during inspection.

What we can provide

We can offer measurement and advice that provides:

- Unattended dual tri-axial vibration monitoring of level and frequency characteristic for the investigation of sporadic or continuous vibration
- Attended uniaxial accelerometer measurement of vibration level and frequency characteristic

We cannot provide tri-axial HAV accelerometer assessment.