

Office Locations

Devon - Humberside - Leicestershire - Nottinghamshire

Peterborough - Sussex - Wessex - Worcestershire

Acoustic Associates



Acoustic Services

Room/Building Acoustics

Auditoriums, Concert Halls and Cinemas
Sound Insulation Testing/ADE/PCT
Sound System Design
Acoustic Modelling/CATT Acoustics

Legal/Planning/Assessment

Aircraft Engine Test Cells
Aircraft Noise
Road Noise
Rail Noise
Industrial/Workplace
Planning & Assessment
IMMI Noise Mapping & Prediction
Expert Witness/Court Appeals/Legal

Vibration

Environmental Vibration
Human Vibration

bb93 - Design for Schools

School Acoustics

Energy Services

Air Tightness Testing
Display Energy Certificates
Domestic Energy Performance Certificates
Non-Domestic Energy Performance Certificates
SAP Calculations



Environmental Vibration

Sources of Vibration

Vibration can result from natural causes, for example an earthquake. However, there are manmade sources of vibration which can affect the environment. These include:

- + Piling Operations
- + Road Traffic
- + Railways
- + Blasting
- + Rotating Machinery
- + Drop Forging

Damage to Buildings

Ground-borne vibration can cause a noticeable level of vibration in buildings. Guidance on the level of vibration associated with damage to buildings is given in BS 5228: Part 4 and BS 7885: Part 2.

Human Response to Vibration

People can be very sensitive to vibration, especially when they perceive it in buildings. A guide to human exposure to vibration is given in BS 6472.

Acoustic Associates can provide the following services:

- + Measurement of ground-borne vibration
- + Assessment of building vibration
- + Assessment of human exposure to vibration
- + Recommending of solutions to vibration problems

