

acoustics



**CAPITA SYMONDS**

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# a comprehensive range of acoustics services

Capita Symonds offers a unique and comprehensive range of services to deal with all noise, vibration, acoustics and sound technology issues across a range of sectors - from transport and entertainment sources to industrial and commercial processes.

We work with blue chip companies, leading architectural practices, consulting engineers and major entertainment, stadium and arena facilities around the world.

Our team has particular expertise in architectural acoustic design; acoustic modelling; building services noise and vibration; and airborne and impact sound insulation design, testing and assessment. We also have extensive experience in environmental acoustics and providing design services in the fields of voice alarm and performance sound systems, sound system modelling, and audio visual systems.

We're even the UK's leading assessor of entertainment noise, having controlled over 500 events over the past 15 years.

Based in our offices across the UK, our acoustics consultants offer the following services -

- architectural acoustics
- building bulletin 93 assessments for schools
- construction noise and vibration Impact
- entertainment sound control
- industrial noise prediction
- noise and vibration environmental impact assessment
- noise and vibration measurement and analysis
- noise mapping
- planning for noise sensitive development
- recreational facilities noise prediction and mitigation
- remote noise and vibration monitoring
- sound insulation testing and specification
- workplace noise and vibration

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### Entertainment Sound Control

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From pubs and clubs to massive outdoor music festivals such as Glastonbury, our team provides active noise control at events of all types and sizes. We also provide feasibility studies for new or refurbished venues and expert witness at licence hearings.



### Environmental Noise and Vibration Impact Assessment

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We provide comprehensive advice on the environmental issues relating to major development projects - including residential and industrial. This covers environmental road and rail noise and vibration assessments, mitigation assessment, construction and operational impact assessment.

### Construction Noise and Vibration Impact

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Our projects - assessed in accordance with BS 5228 - include demolition, piling and landscaping, including advice for mitigation and on-site management where necessary. The team has also undertaken continuous noise and vibration monitoring on high profile projects, including Wembley Stadium.



### Sound Insulation Testing and Specification

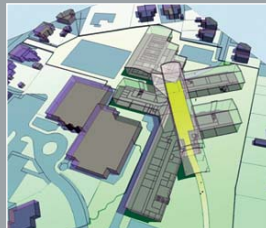
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We offer pre-completion sound insulation testing - in accordance with the Building Regulation's Approved Document E - for new and converted properties. We also advise on the suitability of specifications and products to meet the test standard or specific requirements for projects.

### Building Acoustics and BB93 School Assessments

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Capita Symonds has project managed numerous Building Schools for Future (BSF) projects which have involved acoustic modelling of spaces to determine reverberation times, external to internal noise calculations, and required sound insulation performance for learning areas.



### Workplace Noise and Vibration

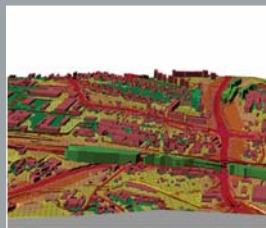
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Workplace noise assessments are undertaken to comply with the recent control of Noise at Work Regulations 2005. Hand-arm and whole body vibration assessments are undertaken to comply with The Control of Vibration at Work Regulations 2005.

### Noise Mapping

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Capita Symonds has extensive noise mapping capabilities across various small and large-scale projects. The team - which uses IMMI noise mapping software in a wide range of projects to aid the assessment and mitigation stages - was involved in the Noise Mapping England project, completing three contracts for Defra.



### Industrial Noise and Vibration

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We frequently carry out assessments of industrial noise, using BS4142 where appropriate. We have carried out wide ranging projects including assessing the processing of contaminated soils at a regeneration project in Yalding, a plastic products manufacturer in Whitstable, and boatyards in Southampton.

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[www.capitasymonds.co.uk/acoustics](http://www.capitasymonds.co.uk/acoustics)

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For further information please contact:

Dr Rukhsana Adam

07826 875 947

[rukhsana.adam@capita.co.uk](mailto:rukhsana.adam@capita.co.uk)



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