

Acoustic Consultancy

Sweco's consultants and engineers leverage over 100 years of combined experience, along with comprehensive knowledge of building regulations, design standards, industry guidelines and relevant codes of practice to deliver reliable and high quality acoustic solutions.

The Sweco difference

Sweco's unique team of teams delivers integrated acoustic design solutions across commercial, transport, public realm, sports, entertainment and industrial settings. From early stakeholder engagement, strategic design assessment and modelling to design, optimisation and commissioning. We balance user experience and wellbeing with compliance for both noise/vibration-sensitive and noise/vibration-generating sites.

Multi-sector coordination

- ✓ Buildings
- ✓ Infrastructure
- ✓ Data Centres
- ✓ Environmental
- ✓ Biodiversity
- ✓ Human Health & Population
- ✓ Renewable Sustainable Energy
- ✓ Sports & Entertainment Venues

Measurement & modelling specialisms

- Environmental noise (BS 7445-1)
- Environmental vibration (BS 6472-1, BS 6472-2, BS 7385-1)
- Ground-borne and re-radiated noise
- Internal ambient noise levels (ANC Guidelines, BS 8233)
- Room reverberation (BS EN ISO 3382-2)
- Sound insulation (BS EN ISO 16283 and BS EN ISO 140 series)
- ANC registered testers for ADE commissioning
- Speech intelligibility measurements (STI & STIPA to BS EN 60268-16)
- CadnaA noise propagation modelling
- ODEON room acoustic modelling
- EASE electro-acoustic & room acoustic modelling

Our core expertise from strategic design to post completion

Residential

- ProPG, BS 8233
- Approved Document E
- Approved Document O

Commercial

- BCO, BS ISO 22955
- BS 4142:2014+A1:2019

Schools

- Building Bulletin (BB93)

Hospitals

- Healthcare Technical Memorandum (HTM 08-01)

Design & Sustainability

- RIBA Stages 1-7
- BREEAM / WELL / LEED

Building Services

- Design & commissioning
- CIBSE / ASHRAE / SRL

Planning

- Noise Impact Assessments
- Site Suitability Assessments
- EIA Environmental Statement (including screening, scoping, chapter and figures)

Amplified Sound & AV

- Avixa AV Standards
- BS 5839-8, EN54
- BS EN 50849
- BS 7827
- The Guide to Safety at Sports Grounds (Green Guide)

Transport

- CRTN / CRN / DMRB LA 111

Construction

- BS 5228 Part 1&2