



Room acoustics measurement kits from Connevens

BB93 is the Buildings Bulletin Issue 93. It is a government document that provides a regulatory framework for the acoustic design of schools in support of the Building Regulations.

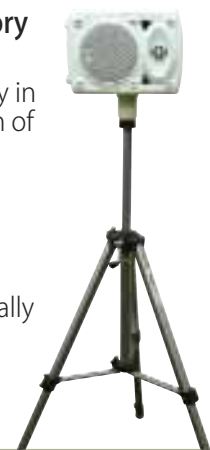
These regulations specify minimum acoustic performance requirements for teaching spaces, particularly in recognition of the requirements of the Special Educational Needs and Disability Act 2001 for integration of children with special needs in mainstream schools.

Why is acoustics in schools important?

Ambient background noise affects both speech intelligibility and concentration. Student and teacher performance is proven to be better in low ambient noise conditions.

Long reverberation times (typical in older school buildings) adversely affect speech intelligibility, especially at a distance from the source of sound (usually the teacher's voice).

Ambient noise and reverberation time are the most important parameters to know. These parameters cannot adequately be calculated in furnished rooms and must be measured on site.



Room Acoustics Measurement Kit *(accurate parameter measurement)*

The Room Acoustics Measurement Kit is suitable for characterising the acoustics of all typical school teaching spaces including halls and gymnasias and contains everything needed to make the measurements required to prove compliance with BB93.

This kit can be used to provide satisfactory evidence to contest 'out of county' placement tribunals and 'fit for use' in new build. For ease of use, comprehensive step by step instructions are given for making the required measurements.

The standard kit consists of the following:

Case 1: Handheld Type 1 (± 0.5 dB accuracy) real time integrating and data logging sound level meter with all necessary software applications. The meter may be used stand-alone and is supplied in a rugged carry case along with a calibrator, mains adaptor, PC upload cables, upload software and instructions. *Weight 2.9Kg*

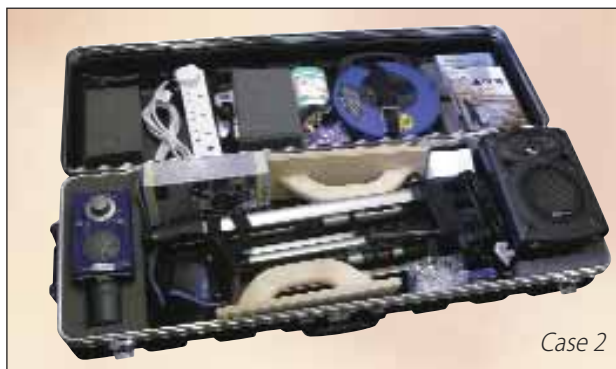


Case 2: Rugged wheeled trolley case containing amplified speakers, tripods, cables, impulse (bang) generator (for quick surveying), ear defenders, CD player (for STI measurement), power supplies, mains extension lead, long range ultrasonic distance measure and PC software including the Connevens RTFIX reverberation time reduction & cost calculator. *Weight 17.5Kg.*

85CRAMK2 £ 6994.00 each



The above kit is also available for hire with or without a Connevens operator. Please contact Connevens Customer Services for details. Further information can be found at www.connevens.com/acoustics



Classroom Reverb Survey Kit *(quick assessment survey)*

This survey kit will allow the reverberation time of existing classrooms to be quantified. The results will enable a decision on whether a full survey is required – including laser measure.



If the results are at least 10% lower than the BB93 guidelines, the room is almost certainly acceptable. Similarly, if the results are more than 10% higher than the BB93 guidelines, remedial work will be required.

This kit is affordable as well as quick and easy to use. The kit is easily portable and weighs in at only 4.7Kg. Measurements of reverberation time up to 1 second with an accuracy of around $\pm 10\%$ and sound levels between 41-115dBA SPL can be made.

Another Sound Level Meter such as the Cirrus 252B may be used to measure approximate ambient noise levels down to about 32dBA SPL.

Measurements with this kit are indicative and are sufficiently realistic for practical use but no method for measuring reverberation time that uses an impulse (bang) sound source is acceptable for proving compliance with BB93.

85CRSK1B £ 514.49 each

