

modular acoustic rooms



Composite Construction Acoustic Panel Systems

A range of acoustic panel systems, of varying density construction, complete with various features providing complimentary acoustic performance. Delivered to site on pallets or within crates, ready for site assembly and built to your precise dimensional requirements. Whilst principally designed for music practice, teaching and recording or rehearsal, these rooms can readily be used for many other purposes, such as audiology, interview rooms, quiet havens etc.

Construction

All of our systems are based on the use of 100mm thick panels of varying composite construction, dependent upon the required acoustic performance. The panels are seated in a floor channel and joined via clips or fabricated sections. An inverted top channel locks the walls together and provides the seat for the roof panels, which are joined in a similar manner to the walls. Large spans between walls are bridged with rectangular hollow section steels where required and the roof is finished with a perimeter trim. Panel skins can be provided in a variety of materials/finishes.

Doors

High performance room systems are provided with doors of steel construction, whilst our slightly lower performance systems use timber doors with a steel sheet core. In all cases the door-sets incorporate matching frames equipped with appropriate acoustic seals, vision panel, latch levers, locks and hinges. Opening sizes meet the requirements of Building Regulations Approved Document M. Double leaf construction, alternative furniture and various finishes, including timber veneer are all available.

Windows

These can be of double or triple glazed design, utilising laminated panes of dissimilar thickness. The glass is pre-fitted into aluminium frames with lined reveals between.

Ventilation

This can either comprise connection to an existing system or a simple forced extract arrangement, providing 10-20 air changes per hour. Air is drawn from and discharged back to the surrounding space, via attenuators providing acoustic performance compatible with the room structure.

Internal Finishes

This would be dependent on room use. A 'live' room may require some acoustically 'hard' surfaces, whilst a control room may require a higher degree of sound absorption. If a robust or 'hard' surface is required this could be pre-finished perforated or plain steel. Higher levels of sound absorption and improved aesthetics can be achieved using fabric finished panels.

Acoustic Performance

Rooms are generally designed to achieve a reduction of Rw_{35-40} from room to exterior, or vice versa, with up to Rw_{60} between adjacent rooms of similar construction. Higher reductions can be provided and rooms can also be designed to meet the requirements of Building Bulletin 93, Acoustic Design of Schools.

Ancillary Products and Services

Various complimentary products and services can be provided to afford a 'Turn Key' design, such as floor systems, air conditioning, lighting and power.

