

MODULAR ROOMS

High Performance Acoustic Panel System



A frameless panelwork system forms the structural shell, which is supplied complete with timber acoustic doors and other features as required. These could include observation windows, integrated ventilation and sound absorbing fabric finishing to the internal wall surfaces. The whole system is easily assembled on site from standard components and built to your precise dimensional requirements. Designed to create a quiet environment for music practice, teaching, recording or rehearsal.

Shell Construction

The system comprises Isolamin or similar modular steel panels of 100mm thickness, seated within floor channels. Panels feature a mineral fibre core faced with steel skins, the vertical joints of each panel being acoustically sealed and locked together. The panel skins can be supplied in a variety of finishes, including perforate to the internal surfaces. A channel section locks the wall panels together and creates a ledge to support the roof. To ensure the integrity of the structure, particularly where roof spans are extensive or additional loading may be applied to the roof, rectangular hollow section steels are incorporated within the design. These may also be used to frame door apertures.

Doorsets

These would be Huet ISA-DX-45 acoustic construction, comprising timber leaf and frame with double seals, vision panel and latch levers with Europrofile cylinder lock. The clear opening size would be to suit your requirements. Veneered finishes, alternative furniture and double leaf construction are all available.

Windows

These would normally be of double glazed design with panes of 6.4mm and 8.8mm thickness. The glass would usually be laminated and pre-fitted into aluminium frames with lined reveals between.

Alternative multiple glazed designs, toughened glass, 'Georgian' wired polished plate or polycarbonate are also available.

Internal Surfaces

Finish treatments would depend on the rooms use. A 'live' room may require some acoustically 'hard' surfaces, whilst a control room would require a higher degree of sound absorption. If a robust surface is required, we recommend the use of pre-painted perforated or plain metal. If, however, a more professional appearance is required a sound absorbing fabric finish may be preferred. Very often a combination of these is most suitable.

Integrated Ventilation

This would usually comprise a simple forced extract system, designed to provide 10-20 air changes per hour, drawing air from and discharging it back to the surrounding space. Attenuators would be provided to maintain acoustic performance compatible with the room structure and grilles would be fitted to visible apertures.

Ancillary Products and Services

A range of complimentary products and services are available to afford provision of 'Turn Key' designs. These encompass general installation, floating floors, air conditioning, lighting and electrical power.



Acoustic Performance

Standard room constructions are designed to achieve a nominal reduction of Rw35-40 from room to exterior or vice versa and up to Rw60 from the interior of one room to the interior of another adjacent room 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.

