



SAS Metal Ceiling, Room Comfort and Architectural Metalwork products are specified and installed on numerous educational projects; in these demanding environments SAS have provided durable yet easy to maintain metal solutions.

SAS has 40 years experience in providing acoustic solutions. To meet the requirements of BB93, SAS design and manufacture performance led products to meet acoustic absorption and attenuation.

Innovative energy efficient products manufactured by SAS that can be integrated seamlessly include chilled ceilings, chilled beams, radiant heating and trench heating.

Exceptional whole of life costs are achieved using 100% recyclable steel. All SAS products contain a minimum of 20% recycled content in accordance with national standards.

To meet design requirements and objectives SAS metal products can be supplied in a range of RAL colours.

## Metal Ceilings

SAS can provide a range of suspended metal ceilings to meet any design or performance requirement.

SAS metal ceilings are guaranteed to remain serviceable for 25 years. A polyester powder coating offers a highly durable and easy to clean solution with an exceptional life span and minimal maintenance costs.

Clip-in or lay-in tiles provide an ideal solution for education projects. Clip-in tiles can ensure voids are kept secure in appropriate environments while a washable polyester powder coated finish offers a cost-effective, hygienic, wipe clean solution.

In corridors and areas where a number of services run, clip-in hinge-down SAS System 150 tiles slide along the suspension grid, to provide access to large areas of the ceiling void for maintenance.

SAS FT, a fine textured paint finish, is available on the full range of SAS ceiling tiles. SAS FT offers a semi-matt/low gloss appearance, visually similar to emulsioned plasterboard, but with the durability of a metal ceiling. It is ideal in areas of natural daylight and is used to create a feeling of space, reducing lighting hot spots.



System 600 and ISMs are a range of acoustic lighting rafts or modules that are directly suspended from a flat structural soffit or in coffers allowing free air movement to the structural slab for natural or chilled beam cooling. Manufactured from metal, the durable finish provides cost effective solutions while reducing whole of life costs.

## System 600 Acoustic Lighting Rafts

System 600 rafts or modules are available in a range of curved, flat or angled profiles, or as a bespoke design service. They can be designed to carry client/M&E specified services, such as cabling, fire detection and control systems.

To meet the demands of BB93, a range of acoustic treatments are available to absorb sound through the perforations in the face panel and reflected sound from the structural soffit onto the rear of the panel.

Luminaires and up-lighters are some of the different intelligent lighting options available to create natural lighting effects, with factory formed apertures integrating lighting and acoustic comfort in one unit, reducing capital and installation cost.

In naturally ventilated schools, System 600 can contribute to increased energy efficiency by leaving the soffit exposed for natural thermal mass cooling.

The range of design options are endless with System 600. SAS offer a range of modules and rafts that can be tailored to any environment.

The experience we have gained working with architects and M&E consultants has enabled us to develop cost effective solutions. By employing standing components, capital costs are reduced while still allowing project customisation.

## Integrated Service Modules (ISMs)

Integrated Service Modules (ISMs) offer a suspended beam solution which integrates chilled beam technology and luminaires with other building services.

ISMs act as a more energy efficient alternative to traditional air conditioning methods, supplementing the passive cooling provided by the exposed thermal mass.

The rafts and modules incorporate either an active, where a fresh air supply is incorporated, or a passive chilled beam using water as a heat transfer method.

Energy efficiency is obtained for the higher operating water temperatures, of between 14°C and 17°C, and the ability to combine beams with free cooling and ground sourcing.

Whole of life costs are significantly reduced when compared to traditional systems, due to fewer moving parts and reduced energy consumption.

ISMs are available in a range of profiles to meet design and budget requirements. A bespoke design service is available without effecting performance.

Meeting educational requirements, other building services including fire detection and control systems, voice and data cables, public address systems and CCTV can be integrated.



SAS Architectural Metalwork includes a range of integrating products for educational projects including:

### Acoustic Attenuators

In naturally ventilated schools, it is necessary to provide acoustic separation between rooms while maintaining air flow. Acoustic attenuators create a series of sound absorbing chambers between room and corridors without affecting cross-ventilation.

### Acoustic Baffles

With large open atriums, acoustic baffles effectively control any unwanted and drifting noise.

Metal vertical baffles provide a low maintenance, easy clean solution with an exceptional life cycle. In naturally ventilated buildings they can assist with cross-ventilation at the soffit level.

### Acoustic Rafts

In auditoriums, rafts can provide acoustic absorption without the depth needed for acoustic baffles. Acoustic rafts have the same properties as System 600 acoustic lighting rafts, absorbing sound though the face and reflected from the soffit.

### Acoustic Wall Panelling

In areas where acoustic lighting rafts are not suitable, acoustic wall panels can provide an acoustic solution to BB93.

Acoustic wall panels can be supplied utilising standard ceiling components, to provide a cost effective solution. On previous projects, acoustic wall panels have been supplied in a range of colours and shapes to highlight different teaching areas.

### Bulkheads

Metal bulkheads provide a means of changing levels between two horizontal planes. They can be manufactured in different sizes and shapes, providing a curved or bullnose feature.

The installed cost of a traditional bulkhead using wet trades can result in higher final installed costs, when compared to a durable metal solution.



metal ceilings • partitioning • room comfort • architectural metalwork

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