

Description

- ◆ Services were designed for the new ten classroom teaching block, services included, boiler plant, underfloor heating, low energy natural ventilation utilising automatically controlled side wall inlets and roof outlets supported by full thermal model calculations
- ◆ The project was undertaken in 2 phases; the first phase included 6 classrooms and ancillary facilities for staff including staff room and WCs; the second phase comprised of 4 classrooms
- ◆ The building has high levels of insulation and has been designed where possible to be naturally ventilated
- ◆ The classrooms have chimneys that induce natural air circulation.
- ◆ Louvres set above windows regular air into the building. In this way the building structure can be cooled at night to reduce temperatures in the summer
- ◆ CO² levels are monitored and fresh air admitted to reduce drowsiness
- ◆ A full electrical design was included together with their integration to the existing site services
- ◆ The key benefits on this project were delivery of a scheme to meet limited budget constraints.

Benefits Delivered

- ◆ Delivery of the scheme to meet limited budget constraints through model design of typical teaching space and modular solutions.

Involvement

- ◆ SDS carried out the detailed design of the M&E services and full thermal modelling of the 2-storey extension.



A centre of excellence in the South West providing 16-19 year old students with high quality advanced level education