



Project name – Chiltern Hills Academy, Buckinghamshire

Market sector - Education

Geographic sector - Buckinghamshire

Project details

Chiltern Hills Academy is a £10 million regeneration project secured by Bam Construct UK. The scheme is due for completion by the end of 2013 and will create an integrated building providing an open-plan learning resource centre as well as new dining facilities, an art and digital design facility and a well-equipped sports hall that will replace the existing gym.

The Academy is located in an area of outstanding natural beauty, therefore BAM Design carefully selected materials in conjunction with the local environment whilst specifying sustainable products to manage the energy efficiency of the building as part of their MEP Design for the building.

Working alongside Bam Construction, we designed a sustainable and cost effective natural ventilation system for the Academy harnessing both wind and solar power.



Chiltern Hills Academy

Project overview

We manufactured and supplied various key products within our Intelivent Natural Ventilation Range including our Wall Units, our Penthouse Turrets and our Solarstore Turrets.

Harnessing natural wind power and temperature buoyancy to ventilate buildings significantly reduces energy consumption that would have been used to operate a more traditional mechanical arrangement.

Solar power is commonly used to assist in the effective operation of a natural ventilation system, particularly during the summer at times of high occupancy when an increased ventilation rate is required. Night-time purge can be further enhanced via the battery assisted fans within the solar-powered Penthouse Turret.

Benefits of using GDL Products to the project

- Bespoke ventilation system created by our in house design team.
- Wind and solar power utilised to generate cost savings.

GDL products used on this project:

Intelivent Penthouse Turrets, Intelivent Wall Units, Intelivent Solarstore unit.