



Elliott Wood Partnership 241 The Broadway, Wimbledon

Project Brief:

To supply and install a system that would enable heat to be dissipated through the large window vents and provide a comfortable working environment for the partnerships employees.

Issues:

To provide a solution in keeping with the modern design of the building

Products Used:

For this unusual project we chose 230v Chain Actuators linked to synchronisation panels for each large vent, together with a Group Command Master Control Panel that divides the building into four separate environments, each with their own temperature, rain and wind sensor. Each uses a mini control panel to allow local control by the employees. The Group Command Master Control Panel can override all the local points, if required.

Awards:

The project was accredited with a Commendation from The Civic Trust Awards and Vent Engineering was very proud to be a part of such an innovative project. The innovative design of the building has contributed towards a lower carbon foot print and reduced running costs.



Natural
VENTILATION

“Thanks again for all of your hard work on the building which has made it such a success and a pleasure to work in”

Paul Wood,
Partner,
Elliott Wood
Partnership

86

Actuators

43

Sync Boxes

Rain, Temperature & Wind Sensors

1 GCC

Panel

43

Manual Switches

241 The Broadway

Case Study

Natural VENTILATION



Elliott Wood Partnership developed the 241 site to create new office space for their growing business. The development was part refurbishment of an existing four storey Victorian property and part new build. Due to constraints around the perimeter of the site there are no external windows at ground floor level.

The building is naturally ventilated and cooled by the use of below ground air ducts which rise out of the ground floor structure. The air ducts utilise the thermal mass of the ground and pre-heat or pre-cool the air depending on the external temperature. Opening vents at upper and lower roof levels produce good air circulation.

The studio is passively cooled, fresh air is drawn through an intake grille located adjacent to the side entrance door and transferred to the office.

In the summer months the hot air naturally rises and is expelled from the building at high level via six Vent Engineering mechanically operated ventilation panels which run the length of the studio. These are automatically controlled by a Group Command Control Panel monitoring four electric temperature sensors located around the building.

These in turn are linked to a number of small electric chain actuators, which respond not only to temperature, but also to rain and wind speed. The ventilation panels operate 24 hours a day thus allowing the building to cool naturally during the summer evenings.



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Paul Wood,
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