



Architectural Louvre Products

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At LouvreSol SP we have been working towards being increasingly sustainable, both on a business level and also on our products and services offered to our clients. But sustainability covers a very wide remit, in fact today it permeates everything we do.

So it was with interest that I read the recent report from the Construction Products Association, 'Material gains in sustainability' a copy is available as a download on our website. Produced in conjunction with PricewaterhouseCoopers LLP. The report offers a 2011 view of how businesses in the construction sector are viewing the issue of sustainability.

We recognised some time ago that a reduction in carbon usage can also reduce costs and ultimately lead to greater efficiencies. We take this principle in all our bespoke designs, the savings we share with our clients.





South Cheshire College



But not only in design, for example, we have invested in new CNC machinery for material preparation. This has removed carbon from our final product, before we used to ship these items out to source at a specialist and cover transport costs. With the additional facility of our own CNC machine we are now able to speed up many processes and incorporate less carbon whilst we re-think product design and how we can further reduce carbon during both design and process.

The road to sustainability is a long one, with no apparent end in sight, but to remain at the forefront of good design and business efficiency, we no option. We are very proud of our route travelled

to date and we welcome anyone to visit us and to discuss sustainability issues and how this may benefit your project.

Eddie Dean
Managing Director

‘A Spectacular College’

LouvreSol Special Projects are proud to have been involved one of the most stunning colleges to be built of late. The South Cheshire college is constructed in the form of a crescent around a mature copse of oak trees. Designed by Jefferson Sheard Architects, the building was designed to minimise its carbon footprint and achieves a ‘very good’ BREEAM rating.

The design concept of the South Cheshire College is based on a strong, clear design brief, to put the College as an integral part of its local community. This concept gives the new college a distinctive feel of a village whilst at the same time being a centre of excellence for education in the area.

Within the Crescent, the back wall acts as a spine which contains many of the central functions of the College, such as a reprographics unit, a student cafeteria and additional facilities which are open to the public such as the restaurant, the entrance to the theatre, the shop and travel centre.

LouvreSol SP provided and installed the

extensive Brise Soleil array around the crescent, with each end of the crescent featuring a four storey horizontal brise soleil feature. The large and expansive use of glass has been designed to create a sense of continuity between the natural environment outside, the Copse, and the human environment inside. The solar shading helps to reduce solar gain and solar glare within the communal area of the atrium.

In conjunction with the brise soleil, the build requirement was for a low carbon footprint for the project. This in turn required the architects to maximise use of natural ventilation and daylight penetration, to build in night cooling, include rainwater collection and re-use and to use solar thermal collectors, ground source heat pumps, and motion sensor lighting. All these strategies have helped to reach the BREEAM rating.

To enable secure daytime ventilation and night time cooling of the atrium, LouvreSol SP supplied and installed their new LouvreWall system which is located at the bottom of the glazed crescent facade at ground level. The wide insulated louvre blades are opened by the Building Management System (BMS) when solar gain in the atrium is identified. In the evening the louvre blades open for a predetermined time to help flush warm air out to be replaced with cool fresh air for the following days occupancy.

LouvreWall is believed to be the largest spanning, motorised and insulated ventilation louvre system available on the market.

Further information about LouvreSol Specialist Projects, their products and services, can be found at www.louvresol.com or by phoning their Head Office in St Helens on 01744 811866.



South Cheshire College