

Warmafloor Ltd.

'Creating a low carbon headquarters'

The design and development of a low carbon building to house our rapidly expanding business.



Ground source heat pump slinkies



Laying underfloor heating/cooling pipes



Low energy source heat pump



The finished headquarters

Notable Features

- Underfloor heating and cooling; ceiling cooling panels
- Ground source heat pumps and slinkies
- High grade PUR insulated cladding
- High efficiency condensing boiler as a top up at peak demand
- Low energy lighting
- Upgraded insulation throughout
- Heat recovery system to pre-condition ventilation system
- Rainwater harvesting
- Carbon offset through tree planting
- Solar Panel for domestic hot water
- Provision for Wind Turbine

Contact details

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Setting the scene

Growth and prosperity of the company meant we outgrew our old premises. Decision to build a bespoke, low carbon building was made easy when a piece of land became available within half a mile of our existing offices.

The decision was made to design a facility uniquely for our business, designed and built to our own spec, incorporating three floors: ground and first floors- offices; 2nd floor- staff welfare; warehouse facility and training academy.

The proposal was to use the mass of the building to control the internal environment with the least amount of energy, and incorporate renewable energy sources. The building houses the Sustainable Energy Centre, which educates on the technicalities of systems incorporated within it, and our aim is to host CPD Seminars to strengthen the knowledge base and maintain excellence in our industry.

The building will be monitored by BSRIA to obtain data regarding its' controllability.

Beating the odds

By developing our own building, we were able to incorporate all the sustainable technologies that were commercially viable to provide an almost carbon neutral building from the point of view of construction and running costs. The only issue that remains is to obtain planning permission for a wind turbine, to enable us to be carbon neutral during use of the building.

Reaping the benefits

We achieved a clean, healthy and safe working environment, and an accident free site during construction. All the technologies we have incorporated will provide very low running costs through energy consumption, water usage and ongoing maintenance.

By planting the site extensively with trees and shrubs, we have offset the carbon emissions that were created through the construction of the building.

People are encouraged to visit the project and take advantage of the Sustainable Energy Centre, which showcases these technologies in detail, and then walk the site to actually see them in practise. This is part of the main steer that the business and building are aiming to project to the industry.

All this has been achieved at a cost-effective rate and we have managed to show that these simple, renewable and sustainable technologies can be incorporated within a commercial building of any size, type or application.