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Coupled with Trend's wireless sensors, a TermoDeck® system delivers an energy efficient ventilation system solution.

At MHS Homes Headquarters in Kent, a fully networked Trend IQ2xx Building Management System was supplied and installed, complete with 23 wireless temperature sensors.

The building is constructed utilising the TermoDeck® ventilation and A/C system that uses thermal energy storage in hollow core slabs for energy saving and peak power reduction.

When days are hot, the mass of the building can absorb the ambient and internal heat the following day.

During the night, the cooled supply air dissipates the surplus heat stored in the slab and cools down the slab. Conversely, when days are cold, the mass of the building absorbs the surplus heat provided by the occupants, lighting, computers, etc during the working day.

At night, this stored heat will compensate for the fabric losses and keep the room warm to the morning. If necessary, it is warmed by heated re-circulated air. Irrespective of external climate conditions, the TermoDeck system produces an efficient and low cost method for heating or cooling a building to the highest standard of comfort.

The ventilation to the open plan offices is provided by two Menerga AHU's which utilise Adiabatic cooling that are integrated with the building management system via an XNC, in addition the Auditorium Ventilation is provided by Inverter driven AHU's.

Client: MHS Homes

Consultant: Fulcrum, London

Installed by: Safe and Sound Controls

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