

CASE STUDY

STRATFORD PLAZA | RESIDENTIAL



fire design solutions



Located in the capital's most exciting new commercial quarter, the 25-storey Stratford Plaza development in Stratford, East London, boasts 220 impressive one, two and three bedroom apartments across 20 floors. As well as its close links to the city centre and the Queen Elizabeth Olympic Park, the development also benefits from 2,000m² of commercial office space within its first five floors.

Appointed to the project by property developers Telford Homes, FDS designed, supplied, installed and commissioned mechanical smoke ventilation systems for the mixed use development. By keeping staircases and common corridors free from smoke in the event of a fire, the ventilation system will provide a safe escape route for residents, while also allowing access for fire fighters.

Having reviewed the building's design, FDS installed a corridor environmental system, which utilises the mechanical smoke ventilation system to provide day-to-day ventilation in order to prevent overheating in its corridors.

By making use of the existing mechanical system, costs were minimised, while also reducing the system's impact on the space available in the building.

As well as managing temperatures, the environmental system will revert to fire safety mode in the event of a fire, ventilating smoke and returning the corridors to tenable conditions.

Along with the office and residential space, FDS was also tasked with installing an enhanced car park ventilation system for the development's three levels of car parking space.

Through the use of Computational Fluid Dynamics (CFD) Modelling, FDS was able to demonstrate the effectiveness of the car park ventilation system, which will exhaust unwanted pollutants from vehicles, and provide smoke clearance in the event of fire, maximising safety for the occupants.

The Stratford Plaza development was completed in November 2014, while its car park was completed in March 2015.

Client:
Telford Homes

Architect:
Stockwool Architects

Service:
Mechanical Smoke Ventilation, Corridor
Environmental System, Car Park
Ventilation, CFD Modelling

