



One Central Square changes the face of Cardiff

Overview:

One Central Square is a major new development near the central rail station in the very heart of Wales' capital city, Cardiff.

The building is part of a five phase masterplan for the area due to be completed in 2018, adding significant new space for offices, retail and residential properties for this ever-growing capital.

One Central Square is the first phase office building and totals 135,000 sq ft across nine floors – the site also offers basement car parking for staff and visitors. The building has achieved a BREEAM rating of 'Excellent', and as part of its design required an energy-efficient smoke ventilation system to be installed in order to meet fire safety legislation.

Outcome:

Adexsi UK was appointed by CMB to supply the smoke ventilation to the building, in the form of a VeriFlow natural smoke shaft. This system relies on hot smoke's natural buoyancy to extract hazardous fumes in the instance of a fire, by venting them through a 3m² smoke shaft up and out of the building. The arrangement also keeps occupants on other floors safe by stopping smoke from leaking from the shaft once it has entered. It's an energy-efficient solution which minimises maintenance requirements when compared to a mechanically-powered alternative.

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