

# HSBC ARENA CENTRAL SPRINKLER PACKAGE

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**PROJECT NAME:**

2 Arena Central Sprinkler Package

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**LOCATION:**

Birmingham

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**VALUE:**

£1.2m

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2 Arena Central is the new head office of HSBC's ring-fenced bank in Birmingham. The building is a ten floor office block with 3 levels of underground car parking and extensive rooftop plant installations.

Dodd Group as main MEP management contractor employed Tyco Fire & Integrated services to undertake the design, supply, manufacture, deliver, install, test and commission the automatic fire sprinkler installation, generally to meet with the requirements of the Loss Prevention Council Rules for Automatic Sprinkler Installations (2009) incorporating BSEN12845 and all relevant technical bulletins issued to date. The design works were undertaken and BIM modelled in REVIT to Level 02 LOI 350 detail, with Dodd Group managing TYCO through the design process to provide a fully co-ordinated sprinkler system and aesthetic sprinkler head layout with the other architectural, structural and MEP disciplines.

The sprinkler protection was designed to protect an Ordinary Hazard High Rise Occupancy, the building being over 70mts in height, with Group II Risk in Car Park Areas (Dry - Property Protection System), and Group III Risk in offices and remaining areas (Wet - Life safety protection System). Due to the height of the building dual rising waters mains were provided to ensure sufficient pressure and resilience to the floors was delivered in the event of a fire. In specialist areas such as the critical power supply standby generator plant room a separate high pressure water mist sprinkler system was provided and within the bulk fuel storage plantrooms a separate foam deluge system was provided, both to provide the continuity of power systems required to the facility in a fire situation.

The works involved the full provision of dual pump systems, water storage tanks, distribution pipe works, floor zone valves and indications controls to provide a complete sprinkler package and certified to LPS 1090 standards for insurance purposes.

Dodd Group undertook all the LV power dual supplies infrastructure to the sprinkler system, including standby generation and changeover switches and fire alarms interlinks to provide full monitoring and reporting of the sprinkler system to the fire service at the fire control point of entry location.

