

www.etonfire.com



Put Simply, **Eton Fire Ltd**
offers **Peace of Mind**

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Home Page Introduction

Welcome to Eton Fire Ltd, we are an industry accredited fire engineering company offering a wide range of specialist fire protection solutions to suit every application; we pride ourselves on a quality approach and professional engineering ability in all our business activities. As an independently owned business with many years of knowledge within our field, we are confident that you will gain every benefit from our experience. Using the latest technology we offer an innovative approach to fire engineering whilst maintaining our core values and traditional practices.

All our engineers are trained to the highest standards to ensure that we maintain our position as one of the markets leading fire protection specialists.

Our aim is to ensure we select the most effective product to protect your most valuable assets, life, property and our environment. Every consideration is given to our customer's requirements to ensure we offer best practice solutions from inception to completion.

We entrust a great deal of our brand identity towards our approach to health, safety and quality systems, we feel that these are of equal importance to our fire engineering ability. Without doubt, these are the values that have built Eton Fire Ltd's proven reputation amongst our business associates.

We cover all areas of commerce and have successful associations with many large corporations, as an accredited Loss Prevention Certification Board LPS 1048 contractor, we can offer a wide range of services tailored to your specific needs.

Our client list includes Axima, Barclays, Bluewater, Canary Wharf Group, City Group, Clifford Chance, HSBC, JCB, Kier, Marriott Hotels, McGraw Hill, Prada, Toyota, and Zara, to name but a few. We also work for major construction and support services companies across the UK namely Bovis, Carillion, Interserve, Kier Group, Overbury and Willmot Dixon.

Our extensive in house capability covers, design, installation, testing, commissioning and maintenance of all fixed fire fighting systems either new build, retrofitting or modifications to existing. We have successfully completed many projects ranging from small retail units to large 15 story office blocks, covering low to high risk applications up to £2.5m. We approach every project with the same values and principals; we trust that you will enjoy the Eton Fire Ltd experience.

Products and Services

Expertise

At Eton Fire Ltd we have engineered systems to all major business sectors both public and private; our varied experience allows us to adapt our products to suit any working environment. We facilitate the following industries:

| | |
|------------------------------|---|
| Commercial | Retail |
| Leisure | Industrial |
| Healthcare | Waste Management Facilities |
| Education | Residential & Care Homes |
| Special Risk Premises | Overseas Design, Supply & Commission |

As a specialist fire engineering business we combine our experience with the latest manufacturers technology, our in house team will ensure that your systems are designed, installed, tested, commissioned and maintained to the highest of standards.

Fire Protection Facts

In the UK, statistics show that there has never been a multiple loss of life in a fully sprinklered building.

In buildings fully protected by sprinklers, 99% of fires were controlled by sprinklers alone and 60% of fires were controlled by the spray from no more than 4 sprinklers.

Sprinklers use much less water than the Fire and Rescue Service. Because the sprinkler system tackles the fire immediately, it only has a small fire to deal with. A fire sprinkler uses between 1/25th and 1/100th of the water discharged by each fire hose, so in the event of a fire, sprinklers will minimise water damage.

Accidental discharge of water due to manufacturing defects is 1 in 14,000,000 (per year of service)

By including Fire Sprinklers in a new development the Developer can reduce land development costs as buildings can be built closer together as half the spacing is required between and certain requirements in respect of access for the fire service may be relaxed overcoming the common problems when developing new sites: restricted or narrow access for Fire Services, length of driveway and restricted turning space.

Incorporating fire sprinklers into new build developments can achieve reduced build costs by the relaxation of certain passive fire protection measures, and provide additional flexibility to designers and developers.

In unusual or unconventional buildings the inclusion of sprinklers can allow building regulations compliance in a very cost effective manner and allow your architects or designers to implement stylish or unorthodox features in their designs such as 'open plan' designs in three-storey dwellings and apartments.

Sprinklers can compensate in developments where Building Regulations cannot be complied with in respect of a means of escape or ensuring adequate access for the Fire Services. If a change of use is being considered, installing Sprinklers is often the only way that a “means of escape” requirement can be achieved.

In retail premises, sprinklers can be taken into account when calculating fire growth and smoke volume. This in turn allows the approval of longer distances of travel to exits.

In residential care homes fitted with sprinkler protection can adopt a policy of delayed evacuation in the event of a fire alarm and the usual requirements to fit self-closers to all bedroom doors may be relaxed.

In environments sensitive to water damage, such as clean rooms, food processing lines, industrial oil cookers etc, special fire protection measures such as Water Mist systems can provide enhanced property protection by their overall cooling and air scrubbing effects to minimise downtime in the event of a fire.

Furthermore, once your premises are established, a Sprinkler System can automatically raise the alarm, rapidly control a fire and vastly reduce the rate of production of heat and smoke. This combines to allow more time for occupants to escape without the need for them to attempt to tackle the fire themselves.

Modern sprinklers are specially designed to meet the needs of architects in offices, hotels, shops, hospitals and prestige buildings. They are compact and elegant. In most buildings the public are usually unaware that sprinklers are fitted.

Miniature sprinklers are little bigger than a 50p piece and are neat and robust. They can be fitted with ceiling rosettes and painted to match any colour scheme.

Concealed sprinklers are recessed and covered by a flat plate flush with the ceiling. They are unobtrusive and almost invisible. Concealed sprinklers are ideal for clean areas, where there is restricted headroom or vandalism is a potential problem

Sprinkler Systems

Eton Fire Ltd offer a complete design, install, test and commission of Sprinkler systems in accordance with the current standards

| | |
|-------------------------------|--|
| British & European Standards: | BSEN 12845 Incorporation LPC Technical Bulletins BS 9251 Residential and Domestic |
| American Standards: | NFPA 13 or FM Global |

The automatic sprinkler systems is the most widely used fire protection system today, the systems are designed to discharge a suitable amount of water for the risk involved as specified under various standards outlined above. Sprinkler systems are designed to provide immediate fire defence when a fire occurs to protect lives and minimise material losses in the event of a fire.

The system activates when the sprinkler head detects heat emitted from a fire. A sprinkler opens to release a spray of water when the heat-sensitive element reaches a specific temperature. The resulting drop in system pressure will ensure that the fire pump will operate providing the appropriate design flow and pressure through the system and discharge to control or extinguish the fire.

We offer the following systems backed up by dedicated water supplies

| | |
|-------------------|--------------------|
| Wet Type | Dry Type |
| Pre-action | Open Deluge |

All our systems are designed in house and calculated to meet with the specific risk criteria to suit any type of application.

Water Mist Systems

Eton Fire Ltd offer a complete design, install, test and commission of High & Low Pressure Water Mist systems in accordance with the current standards

| | |
|-------------------------------|--|
| American Standards: | NFPA 750 incorporating NFPA 13 or FM Global Standards |
| British & European Standards: | PrEN: 14972 Water Mist Systems Design and Installation DD 8458 Residential and Domestic Water Mist Systems DD 8489 Industrial and Commercial Water Mist Systems |

Water

Mist systems are becoming an alternative concept to traditional sprinkler systems, in principal the systems are constructed using similar methods to standard fire sprinklers but carry additional benefits.

- Smaller water supplies which reduces the environmental impact on water usage
- Smaller components resulting in overall space saving for co-ordination, construction methods and developers
- Minimal water damage and reduced smoke damage upon activation resulting in lower repair costs and operating downtime

The systems are designed to provide immediate fire defence when a fire occurs to protect lives and minimise material losses in the event of a fire.

Typically the system activates when the nozzle head detects heat emitted from a fire. A nozzle opens to release a fine spray of water (mist) when the heat-sensitive element reaches a specific temperature. The resulting drop in system pressure will ensure that the fire pump will operate providing the appropriate design flow and pressure through the system and discharge to control or extinguish the fire. Low Pressure Mist Systems are designed to a maximum operating pressure of 12.1 bar where as High Pressure Water Mist Systems are designed to operate to a maximum of 200 bar. Our systems can be designed to suit any risk or application across all industry sectors. Our special projects division offer all major manufacturer brands under licence and will only install approved Water Mist products.

We offer the following systems backed up by dedicated water supplies

| | |
|-------------------|--------------------|
| Wet Type | Dry Type |
| Pre-action | Open Deluge |

All our systems are designed in house and calculated to meet with the specific risk criteria.

Deluge Water Spray

Eton Fire Ltd offer a complete design, install, test and commission of medium and high velocity water spray deluge systems. Deluge Water spray systems are similar to standard sprinkler systems except all nozzles are open and will discharge together when control valve opens. These systems are designed to protect areas where fire is likely to spread rapidly and / or where cooling of surrounding equipment is necessary.

In some circumstances extinguishment is not always desirable, only cooling. Common applications include power generation equipment (e.g. switchgear), flammable liquid storage, gas tanks and process plants.

Cooling is achieved by the use of medium velocity spray nozzles and extinguishment usually by high velocity nozzles.

This system can be activated manually or automatically by hydraulic, pneumatic or electrical detection systems.

Fire Hydrants & Rising Mains

Rising Mains

Eton Fire Ltd offer a complete service incorporating the design, installation, testing and commissioning of wet and dry riser systems in accordance with BS 9990:2006. Wet rising and dry rising mains are intended for use by the Fire Brigade or other trained personnel. They provide a readily available means of delivering considerable quantities of water to extinguish a fire or to prevent its spread.

Dry risers are vertical mains fitted into staircase enclosures or other suitable positions, with outlet valves on each floor and inlets fitted at ground level to enable the fire brigade to connect to the water supply. Wet risers are pipes kept permanently charged with water under pressure, typically from a storage tank and booster pump set.

As part of our service we also inspect, test, maintain and commission existing systems under the guidance of our service team.

Fire Hydrants

Eton Fire Ltd offer a complete service incorporating the design, installation, testing and commissioning of hydrant mains systems in accordance with BS 9990:2006. Hydrant mains are an important part of the fire brigade's defence against fire; our systems are located on large sites which have private water mains such as hospitals, military establishments and industrial estates. All our installations are installed using approved components; we can provide civil works to facilitate installation and repair works.

As part of our service we also inspect, test, maintain and commission existing systems under the guidance of our service team.

Gas Suppression Systems

Eton Fire Ltd offer complete design, installation, testing and commissioning of Gas Extinguishing systems in accordance with the current standards.

British & European Standards: **BSEN 15004 1 - 10 Gas Extinguishing Systems**

Eton Fire is an LPS 1204 approved company and offer a complete range of Gas Extinguishing systems and all subsidiary components. Typically our systems are used in IT, Data and Comms rooms or areas where there are concerns about the risk of water damage. Generally our mechanical and electrical release installations are installed to the above British Standards and are in accordance with our manufacturer's requirements. Inert (IG-55, IG-541) and synthetic (HFC) extinguishing agents are the most environmentally friendly gases available on the market today.

Inert and synthetic gases reduce the oxygen concentration in a risk to a level below the threshold where combustion can be supported and are able to be used in occupied spaces subject to design calculation.

Gas extinguishing systems normally require pressure relief venting to safeguard room construction.

As part of our product range, we offer a complete CO2 package. CO2 systems provide excellent cost-effective solutions for normally unoccupied areas such as switchrooms and printing machinery areas. These systems are reliable and inexpensive to recharge after activation.

Specialist Concept Systems

At Eton Fire Ltd we are considered as one of the industry's most innovative fire engineering companies. Although our business was built on main stream fire protection, we are continuously developing our product range to ensure that our customers are offered the most effective products to suit their individual requirements. As part of our portfolio, we offer several specialist products, our specialist range includes:

Hypoxic air fire suppression is an active fire protection measure that reduces and maintains the oxygen levels within an area to typically 13% concentration. Although hypoxic air is safe to breathe for most people, it prevents fire ignition in many materials. Hypoxic fire suppression is typically used in high value areas where clients are concerned with Water or Gas discharge. Eton Fire Ltd offers a complete design, install, test and commission service.

Kitchen Hood Fire Suppression, Eton Fire Ltd offers a complete design, install, test and commission service under manufacturer's license. We can protect all kitchen canopy equipment using latest approved technology by means of High Pressure Water Mist or Chemical Agent systems.

Aspirating Smoke Detection Systems work by drawing air continually from the protected area into a pipe network and transporting it to a detector unit. Laser technology detects any smoke and measures it against alert and alarm thresholds programmed into a fire control panel. The system is typically used in Computer Rooms, Telecommunications, Hospitals, and Clean Rooms. Eton Fire Ltd offers a complete design, install test and commission service.

Rainwater Harvesting for fire protection applications is regarded as a sustainable product that reduces the use of fire water mains. As part of our design initiatives we can explore the use of rainwater harvesting for your property and help to reduce the demands on the fire mains infrastructure. Recycled water initiatives are popular concepts with all local authorities and can add value to planning applications. Eton Fire Ltd is committed to sustainability products and the changing face of fire protection.

Service & Maintenance

Regular, routine maintenance of your Fire Protection System is just as important as the quality of the design and installation and ensuring appropriate service and maintenance for your systems is as important as your decision to provide them in the first place and as such Eton Fire Ltd offers a complete service package for all our products. Our professional service team will ensure that your systems are checked, tested and maintained in accordance with the latest codes of practice. We provide comprehensive status reports supporting your maintenance contract; our service team will inform you of any faults identified within your system and will provide a quotation and follow up date for the associated repairs. All our work is carried out to the highest standards and backed by specific method statements, risk assessments, and health and safety policies.

As part of our service we offer a 24hr 365 day reactive facility covering the UK, we have engineers located within accessible distance to all major cities.

In addition to the above our service team offers customer training, engineering support and system familiarisation to ensure your fire systems are regularly checked by a competent person.

We also provide Fire Hosereel installation, repairs and testing and a full range of Fire Extinguisher supply, install and service facility.

Our engineers can also carry out flow and pressure testing on hydrant mains and riser systems for feasibility reports, ongoing maintenance or client witnessing.

Accreditations and Membership

At Eton Fire Ltd., we are proud of our high standards; accreditations mean more to us than just a plaque on the wall, they represent our commitment to achieving the highest health and safety, technical and quality standards demanded by ourselves and our clients. We believe that these achievements demonstrate our competence in all our business activities and provide assurance that we carry out our works to the highest of standards.



LPS1048-1 Approved Sprinkler Contractor
London Certificate No. ASC-081
Midlands Certificate No. ASC-114



LPS1204
Certificated Fixed System Installer
London Certificate No. CFSI-020

While there is nothing mysterious about Sprinkler Systems the high reliability and effectiveness of these systems has come about over the years by strict adherence to the Sprinkler rules and design standards approved by the LPCB (Loss Prevention Certification Board) which itself is accredited by a Government-approved body, the United Kingdom Accreditation Service (UKAS).

www.redbooklive.com



Assessed to ISO 9001
London & Midlands Certificate No. 662

Our registration to ISO 9001 shows our commitment to quality, customers and our willingness to continually improve. As an ISO 9001: 2008 accredited company, our customers can be sure that we have excellent documentation and control of processes which means less time is wasted due to inconsistencies and therefore increased productivity.

www.redbooklive.com



As a world leading advocate of fire prevention and an authoritative source on public safety, the National Fire Protection Association (NFPA) aim to reduce the worldwide burden of fire and other hazards on the quality of life by providing and advocating consensus codes and standards, research, training, and education intended to minimize the possibility and effects of fire and other risks.

www.nfpa.org

Eton Fire Ltd. is committed to technical excellence and to supplement our LPCB accreditations, we are proud members of the following leading Trade organisations.



The British Automatic Fire Sprinkler Association (BAFSA) work closely with the government, fire and rescue service, building control officers, insurers, architects and town planners and provide authoritative information on the benefits of sprinkler systems including how sprinklers can play a significant role in saving life and property from the devastating effects of fire. BAFSA is dedicated to making sure that sprinkler systems are installed to the highest professional standards.

www.bafsa.org.uk



The Fire Protection Association (FPA) is the UK's national fire safety

organisation working to identify and draw attention to the dangers of fire and the means by which their potential for loss is kept to a minimum. The FPA has an unrivalled reputation for quality of work and expertise in all aspects of fire including research, consultancy, training, membership, publications, risk surveying and auditing and their products and services are designed to assist fire, security and safety professionals achieve and maintain the very highest standards of fire safety management.

www.thefpa.co.uk



FM Global provides comprehensive global commercial and industrial property insurance, engineering-driven underwriting and risk management solutions alongside groundbreaking property loss prevention research and prompt, professional claims handling. As a mutual company, their products and services directly support their clients' overall risk management objectives through:

- Understanding the nature and reality of their specific risks
- Establishing sound loss prevention solutions that safeguard against loss
- Developing cost-effective insurance and risk transfer solutions backed by large, stable capacity
- Providing the claims and loss mitigation support to minimize business disruption

www.fmglobal.com

At Eton Fire Ltd., industry accreditations are not enough. We show our commitment to our staff by demanding extremely high standards in Health and Safety and to this end we are accredited by Safe Contractor, CHAS and Building Confidence and hold the Committed to CSCS Gold Award.

Contact Us

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