

SERVICES & SOLUTIONS

L.B. FOSTER IS RECOGNISED AS AN TRUSTED EXPERT IN FIRE SAFETY SCIENCE AND ENGINEERING

With proven accreditations, extensive regulatory knowledge, and an unwavering commitment to innovation, L.B. Foster stands as a trusted partner for organisations seeking robust fire engineering solutions.

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WE SPECIALISE IN INTELLIGENT DETECTION AND SUPPRESSION TECHNOLOGIES THAT INTEGRATE SEAMLESSLY WITH RAIL INFRASTRUCTURE—SAFEGUARDING LIVES, THE ENVIRONMENT, PROPERTY, AND MISSION-CRITICAL OPERATIONS.

We apply rigorous, data-driven methodologies to assess and validate fire protection strategies, ensuring every solution meets the highest standards of safety, performance, and regulatory compliance.

Our expertise encompasses every facet of fire safety, from achieving compliance with stringent regulatory standards to mitigating operational and infrastructure risks that threaten continuity of mission-critical operation and passenger safety.

Complex Infrastructure & Environments

We deliver integrated fire engineering services that provide end-to-end solutions for rail operators and asset managers. These include comprehensive fire risk assessments, detailed fire strategy reports, and performance-based designs tailored for complex infrastructure & environments. To ensure early detection in challenging environments, our advanced systems utilise Aspirating Smoke Detection (ASD), offering rapid response in large open spaces and tunnels where smoke may be difficult to detect. Additionally, our compartmentation solutions feature the installation and certification of fire doors, penetration seals, and fire-rated lagging, effectively containing fire spread within multi-level stations and underground facilities.

Public Safety

We prioritise public protection through early warning and rapid response systems, deploying intelligent fire detection and alarm technologies to minimise evacuation time. Our solutions include low-pressure water mist systems for effective flame cooling and inert gas suppression for electrical rooms, ensuring safe fire control without harming people or equipment. We also design fire strategies that comply with accessibility standards, incorporating safe evacuation routes for People with Restricted Mobility (PRM) and integrating with Operations Control Centers (OCC) to provide real-time guidance during emergencies.

Regulatory Complexity

We ensure full compliance with stringent fire safety standards by holding LPS 1014 certification for fire alarm systems and LPS 1048 for sprinkler systems, meeting both UK and international requirements. Our expertise spans EN 45545 for rolling stock materials and BS 9992 for underground systems, enabling us to guide clients through evolving regulations with confidence. In addition, our dedicated consultancy teams provide detailed fire safety design reviews and liaise directly with regulatory authorities to streamline approvals and minimise compliance risks.

Operational Resilience & Continuity During Incidents

We strengthen resilience through robust fire suppression infrastructure, including dry and wet risers, hydrant systems, and compartmentation measures that help maintain partial operational capability during incidents. Our maintenance and testing programs feature 25-year sprinkler head inspection cycles and continuous monitoring to ensure long-term reliability.

Additionally, we implement performance-based evacuation designs that enable stations and tunnels to meet resilience objectives without compromising safety.

Remote Monitoring & Control

Integration of detection systems with OCC for real-time incident management and minimal disruption.
Gas Suppression for Data & Control Rooms: Protects critical IT and signaling assets, reducing downtime risk.

Competency Gaps & Risk Management

We address competency gaps through tailored fire safety training programs for operators and maintenance teams, ensuring staff are equipped to manage emergencies effectively.

We conduct comprehensive Fire Risk Assessments (FRA) and HAZID workshops to identify vulnerabilities early and implement robust mitigation strategies. To maintain best practices, our approach includes regular audits and continuous updates to fire strategies, ensuring alignment with evolving standards and regulatory requirements.

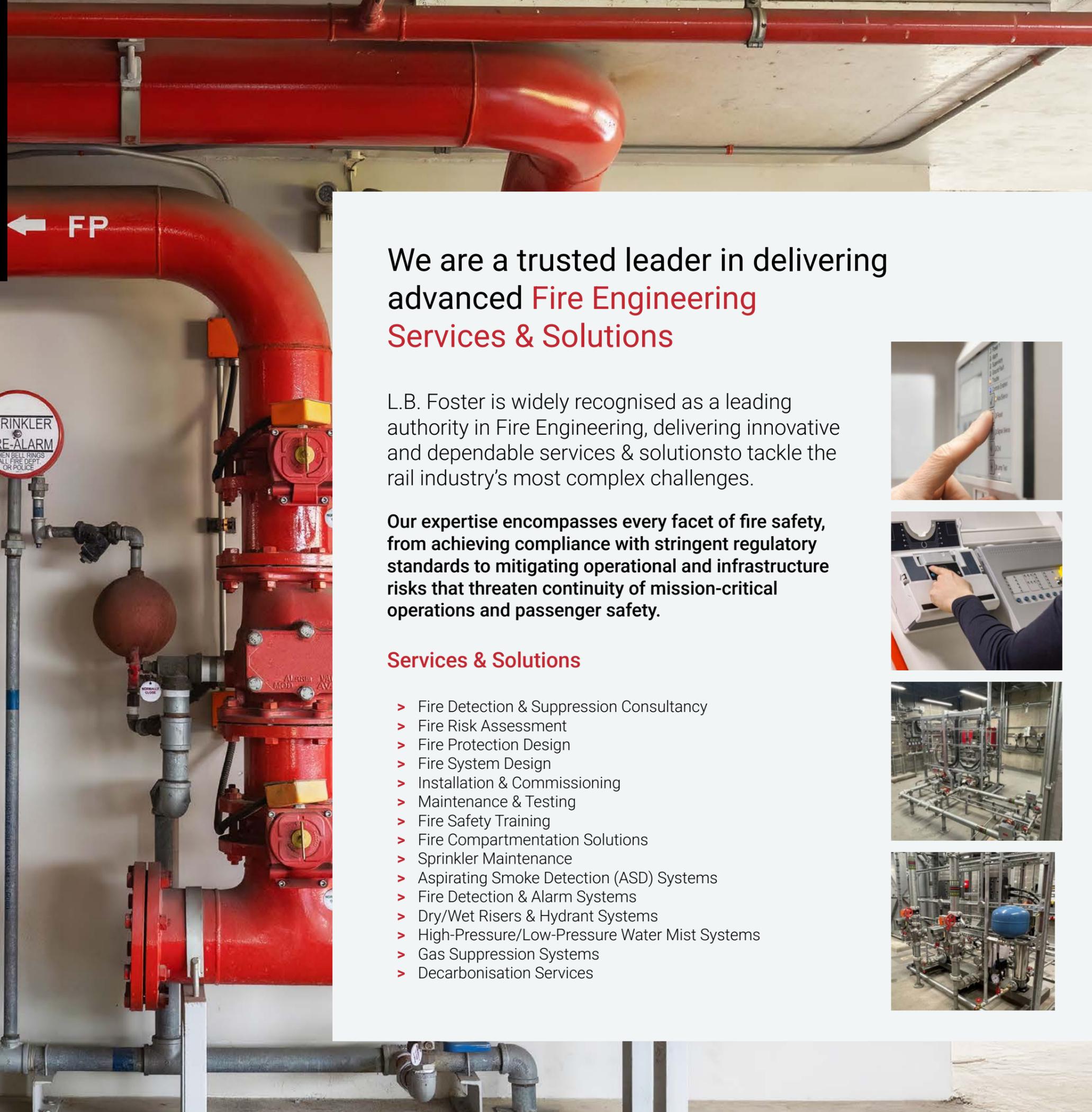
Fire Strategy Integration with Business Continuity Plans

Our systems are designed to allow freight corridors and critical infrastructure to remain functional during emergencies.



Fire Engineering Strategies

We develop Fire Engineering strategies that uphold regulatory compliance, operational resilience, and peace of mind keeping mission-critical rail operations safe, efficient, and prepared for evolving risks.



We are a trusted leader in delivering advanced **Fire Engineering Services & Solutions**

L.B. Foster is widely recognised as a leading authority in Fire Engineering, delivering innovative and dependable services & solutions to tackle the rail industry's most complex challenges.

Our expertise encompasses every facet of fire safety, from achieving compliance with stringent regulatory standards to mitigating operational and infrastructure risks that threaten continuity of mission-critical operations and passenger safety.

Services & Solutions

- > Fire Detection & Suppression Consultancy
- > Fire Risk Assessment
- > Fire Protection Design
- > Fire System Design
- > Installation & Commissioning
- > Maintenance & Testing
- > Fire Safety Training
- > Fire Compartmentation Solutions
- > Sprinkler Maintenance
- > Aspirating Smoke Detection (ASD) Systems
- > Fire Detection & Alarm Systems
- > Dry/Wet Risers & Hydrant Systems
- > High-Pressure/Low-Pressure Water Mist Systems
- > Gas Suppression Systems
- > Decarbonisation Services





We are a trusted, end-to-end supplier to the global rail sector, renowned for delivering market-leading, high-performance engineering solutions that are essential to the safe and reliable operation of rail networks worldwide.

Our engineering technology innovations enable safety, improve information flow, keep things moving, monitor conditions, and enhance environments that improve the lives of people who rely on us to keep our world moving.

L.B. Foster inform.
Award-winning intelligent & inclusive **Customer Information Technology Solutions** engineered for public safety.



Research-led **Friction Management Solutions** to mitigate risks, reduce noise pollution, protect public health and improve operational efficiency.



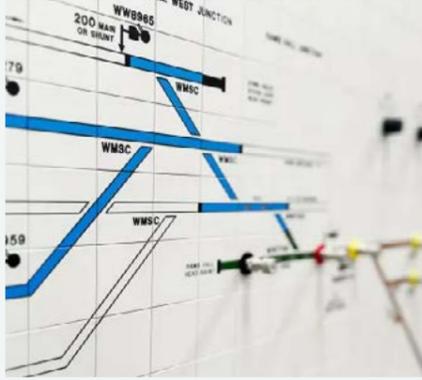
Leading provider of **Fire Engineering Services** and Systems, recognised as a trusted expert in fire safety science and engineering.



From immersive audio zones, ambient scent diffusion and dynamic signage to interactive menu boards and kinetic lighting, we create multi-sensory experiences that captivate audiences. www.skatchtech.com



Leading manufacturer and inspector of **Rail Signalling & Control Technology** and a trusted supplier of high-quality replacement components.



L.B. Foster Surveillance Technology Solutions are engineered with high reliability and precision, delivering critical data to traffic control systems to help reduce operational and infrastructure Risks.



WE DELIVER PRODUCTS AND SOLUTIONS THAT PERFORM FLAWLESSLY IN THE MOST DEMANDING ENVIRONMENTS.

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GLOBAL REACH, LOCAL KNOWLEDGE AND EXPERTISE.



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