



# TRANSPORT: RAILWAY STATIONS

We have a wealth of experience providing fire safety solutions for the ever-changing requirements and expansions of international transport hubs and infrastructure.

International Fire Consultants have a long and successful history of working on railway and transport infrastructure throughout the world. Our specialist award-winning team deliver clear, unbiased and actionable fire safety solutions.

We have a wealth of experience providing fire safety solutions for the ever changing requirements and expansions of transport hubs and infrastructure. We've worked on major transport projects such as the instantly recognisable Kings Cross and St Pancras train stations.

Providing detailed fire engineering and fire risk management advice to international infrastructure projects with unique security and design challenges, requires an expert advisor. Our involvement spans from the renovation of historic transport buildings, to modern new builds and extensions of urban and rural stations.

We are relied upon by many prestigious construction firms, architects, developers and station operators to advise on any fire safety and fire protection issues, incorporating active and passive systems, clear evacuation plans, fire stopping systems and compartmentation.

As well as providing critical understanding for projects at all sizes and complexities, **one of the unique benefits of IFC is our ability to provide expert insight and advice that spans all 0-7 RIBA stages of planning and development** encompassing conceptual design and planning, fire safety design, construction phase management and ongoing fire safety management throughout the lifespan of a facility.



IFC's Chartered Fire Safety Engineering Directors lead our project teams who are able to focus on:

- ✓ High standards of fire safety in order to ensure approval from regulatory authorities
- ✓ Compliance with relevant railway design criteria (such as Network Rail or LUL requirements) Fire safety design for flexible operation
- ✓ Fire engineering approaches to minimise costs and design options
- ✓ Operational stations; reducing disruption whilst maintaining high levels of fire safety throughout all phases of construction

This independent and holistic approach to all aspects of Fire Safety Engineering and Fire Risk Management (whilst allowing your chosen developers to supply, install and maintain the fire protection systems) ensures that you can be assured our advice remains impartial, fair and confidential and is based upon realistic and long term value.

Ultimately helping you to realise your project aims and keep staff, travellers and visitors safe from fire for the building's lifetime.

Key insight and advice available from the IFC Group includes:

- ✓ Fire Safety Strategies
- ✓ Smoke & Evacuation Modelling
- ✓ Structural Fire Engineering
- ✓ Expert Witness Testimony
- ✓ Peer Reviews
- ✓ Fire Safety Audits
- ✓ Fire Risk Assessments
- ✓ Emergency Planning
- ✓ On-Site Safety
- ✓ Engineering Assessments
- ✓ Detection & Alarm Systems
- ✓ Suppression Systems
- ✓ Fire Testing
- ✓ Fire Protection Training
- ✓ External Walls & Attachments

Bakerloo Line London Underground  
Gatwick Airport  
Dubai Metro  
Hong Kong International Airport  
Brussels Metro  
Luton Airport  
Dublin Airport  
Dubai International Airport  
Manchester Airport  
Eurostar International  
Brussels International  
Heathrow Airport  
Waterloo Train Station  
Shepherds Bush Westfield  
Paddington Crossrail  
Kings Cross, St Pancras International  
White Hart Lane Station  
Julius Nyerere International

## TRANSPORT HUB PROJECTS

Regional Airports | International Airports  
Train Stations | Underground Stations

### DUBAI METRO

Incorporating the latest Computational Fluid Dynamics, IFC provided advice on smoke ventilation, the evacuation strategy, potential design options, detailed designs and structural protection. In addition a peer review, assurance and negotiations were provided.

### WEMBLEY CENTRAL STATION

The project which included both refurbishment and new build construction required expert option and fire engineering advice relating to multiple elements and phases of the project including the hotel design, residential accommodation situated over offices, retail outlets, 3x tower blocks over LUL, London Overground and regional rail facilities.

### BRUSSELS METRO

The IFC Group conducted Computational Fluid Dynamics for the platform and the ticket hall areas of the station.

### EUROSTAR

IFC Group were retained for our expertise across all aspects of fire-safety for rail-stock, tunnels and Eurostar buildings.

### LONDON KINGS CROSS & ST PANCRAS STATION

IFC conducted a peer review for the stations retail and platform area and looked at smoke control, structural fire engineering, the passive fire compartmentation design, and means of escape.

### SHEPERDS BUSH WESTFIELD

IFC provided the station's Fire Strategy, smoke and evacuation modelling, including fire safety engineering advice for the shopping centre over central line depot during relocation of 36 sidings underground to allow the oversite development.

*"Fire protection is one of the most important investments and critical considerations that can be made on a construction project"*

