



# Achieving a Safer Railway

## Fire Safety Engineering for Railway Infrastructure

Our innovative approach to fire safety design in railway infrastructure projects has benefited projects across the globe. Our commitment to achieving cost-effective solutions has made us a favoured partner for a wide range of clients, both public and private.

Ensuring the safety of the travelling public is an essential element in the design and operation of rail infrastructure. Safety is a priority issue which drives public perception and which can greatly affect capital expenditure. The adequacy and effectiveness of safety systems can bring added value to high investment rail infrastructure projects and can extend working life.

Subterranean rail installations present a unique fire and life safety challenge, which requires careful and experienced consideration.

Mosen has world class expertise in the field of fire and life safety and considerable experience in applying that expertise to a wide variety of railway infrastructure projects. Mosen recognises that life safety commands a high level of importance in rail infrastructure projects and prides itself on ensuring clients successfully achieve their project goals through the implementation of innovative and cutting edge safety solutions.

### Experience

Mosen has a track record of providing high quality fire safety advice, which has contributed to the success of major rail infrastructure projects, such as

- Forrestfield Airport Link, Perth
- Tottenham Hale Station, UK
- Crossrail West (14 stations)
- Lucknow Metro, India (3 stations)
- LOCROS Lifts Schemes East, UK (3 stations)
- Delhi Metro, India
- Addition of 45 new stations to the Singapore MRT



*New Tottenham Hale Station*

## Expertise in Stations and Tunnels

Mosen offers world-class fire and life safety consultancy services in all phases in the development and use of rail infrastructure, including the design of new facilities, and safety system inspection and audit of existing infrastructure. We are experienced in all types of railway infrastructure, including surface and underground stations, tunnels, subways and retail outlets. Mosen's range of fire and life safety expertise for railway infrastructure includes:

- fire and life safety engineering
- fire and life safety system inspections and audits
- mechanical / electrical equipment surveying and analysis
- hazard analysis and classification
- fire risk assessment
- tunnel and underground station ventilation and smoke management design
- fire suppression design
- passive fire protection optimisation
- fire compartmentation design
- intelligent way-finding in case of fire
- egress and escape analysis



*Forrestfield Airport Link*

## Innovation

Mosen places great emphasis on innovation, both in the services it provides to its clients and on the products that it specifies. Our objective is always to achieve the greatest benefit to our clients at the lowest cost.

Mosen has patented the unique MoJet® tunnel ventilation system, which has been adopted in a number of metro and road tunnels worldwide. This patented device provides significantly greater thrust and reduced energy consumption from a single axial fan, leading to substantial savings in fan procurement, energy and cabling costs.



*MoJet®*

## Contact us

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