

CAPABILITY STATEMENT - TRANSPORT & INFRASTRUCTURE



THE RED FIRE EXPERIENCE

Vision Statement

Sustainable and safe communities - for everyone, everywhere

Mission Statement

We are fire safety professionals. We work with people. We collaborate, negotiate and communicate. We improve the communities we live in.

RED Core Values

Family

We care about our employees, their families, their friends and the communities they live in.

Diversity

We value creativity and diversity and we treat colleagues, clients and partners with respect and kindness.

Sustainability

We embrace sustainability and strive to be climate positive.

Quality

We value quality and recognize that our management systems facilitate continual improvement to help us in our mission.



COMPANY BACKGROUND

RED Fire Engineers Pty Ltd (ABN 52 164 239 212) is a privately-owned consulting firm specialising in providing fire safety and risk engineering services to the construction, infrastructure, product development/testing and legal/insurance sectors.

Our engineers are internationally trained and experienced. We have designed major projects throughout Australia and around the world. Our aim is to solve any fire engineering problem, no matter how complex, and communicate the solutions in the simplest way possible.

We have developed novel approaches to fire engineering designs, and are at the forefront of applying risk assessment techniques to fire safety problems.

Fire safety challenges need to be handled in such a way as to allow the building to function and maximise commercial opportunities. In addition to the traditional code advice, our team applies fire engineering techniques to effectively resolve these competing issues.

We have developed advanced fire safety techniques to optimise building designs. We use these techniques to demonstrate the achievement of optimal safety levels for minimum cost whilst maintaining architectural flexibility

*A diverse team of
internationally trained,
professional problem solvers*



RELEVANT PROJECT EXPERIENCE

The RED team have extensive international experience across all market sectors.

Our staff are skilled in the development and delivery of complex fire safety strategies through the application of advanced fire engineering techniques.

The following pages outline some of our teams' recent experience in these sectors.

- CLADDING & FACADES
- HEALTH & AGED CARE
- APARTMENTS & HOTEL BUILDINGS
- COMMERCIAL OFFICES
- RETAIL & SHOPPING CENTRES
- INSPECTIONS & AUDITS
- ROAD, RAIL, TUNNELS & OTHER TRANSPORT INFRASTRUCTURE
- HERITAGE STRUCTURES & FACILITIES
- ASSEMBLY
- EDUCATION & RESEARCH
- DEFENCE, POLICE & DETENTION
- INDUSTRIAL & STORAGE
- LOGISTICS
- CRITICAL INFRASTRUCTURE



SERVICES OFFERED

- Customised fire safety assessments and designs
- Advanced fire, egress and structural computer modelling techniques
- Innovative design of active and passive fire protection systems
- Advice on fire brigade requirements and negotiation
- Qualitative and Quantitative Risk Assessments
- Inspections, audits and due diligence assessments
- Facilitation of Safety in Design workshops to meet OHS requirements
- Building Code consulting (Australian and international experience)
- Training for staff in evacuation procedures and general fire safety
- Forensic engineering and Expert Witness
- Cladding audit, risk assessment and rectification assistance

We offer the full range of fire engineering and risk management services



TRANSPORT & INFRASTRUCTURE



Mooroolbark Train Station
Mooroolbak VIC

- Fire engineering during construction and demolition works
- Egress, fire and smoke modelling
- Fire safety risk assessments



Lilydale Railway Station
Lilydale VIC

- Fire engineering during construction and demolition works
- Egress, fire and smoke modelling
- Fire safety risk assessments



Mt Hotham Airport
Conbungra VIC

- Desktop Review
- Site inspection
- Fire Safety Risk Assessment



Wulkaraka Train Station
Wulkuraka QLD

- Fire engineering during construction and demolition works
- Egress, fire and smoke modelling
- Fire safety risk assessments



Rosanna Train Station
Rosanna VIC

- Fire engineering during construction and demolition works
- Egress, fire and smoke modelling
- Fire safety risk assessments



Brisbane Airport
QLD

- Desktop Review for Terminal Expansion
- Fire Engineering Report

TRANSPORT & INFRASTRUCTURE

Cross River Rail, Brisbane	QLD
North East Program Alliance, Darebin St underpass	VIC
Regional Rail Link, redevelopment of 5 stations	VIC
Canberra Airport, independent peer reviewer for new international terminal	ACT
Wellington Airport Southern Runway End Safety Area Extension and underpass fire safety and fire protection design	New Zealand
The Waterview Connection tunnel (concept design), Auckland	New Zealand
New Lynn Rail Box, Auckland	New Zealand
Chatswood Transport Interchange, Chatswood	NSW
Brisbane Domestic Terminal Expansion, Brisbane	QLD
M2 Motorway Interim Widening Project, Norfolk Road Tunnel - Westbound, Epping	NSW
Metro High Capacity Metro Trains Depot, East Pakenham	VIC
Webb Dock West New RO-RO Automotive Terminal	VIC
Melbourne Metro tunnel Critical Velocity and station egress standards review	VIC
Wulkuraka Station redevelopment	QLD
Rosanna Train Station, Rosanna	VIC

QUALIFICATIONS & REGISTRATIONS

Our team have all the qualifications and registrations necessary to carry out fire engineering throughout Australia.

We have Washington accord-accredited engineering degrees and post-graduate qualifications in fire safety and risk management.

Our engineers are registered on the National Engineering Register as well as in New South Wales (C10), Victoria (RBP), Queensland (RPEQ) and Tasmania (CC).

Our team members are also members of the Society of Fire Protection Engineers (SFPE), National Fire Protection Association (NFPA), Engineers Australia's Society of Fire Safety (SFS), and other professional associations.

Senior staff are chartered professional engineers through Engineers Australia, which is a recognised benchmark worldwide.



ACCREDITATIONS

We embrace sustainability and strive to be climate positive by reducing our carbon footprint.

RED holds ISO 9001 and ISO 14001 Certification. This Quality and Environmental Management System (QEMS) assists us to deliver a more effective service and streamline our processes.





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