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CAPABILITY STATEMENT – ALL SERVICES



RED FIRE ENGINEERS

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



THE RED FIRE EXPERIENCE

We invite you to be part of our story! Let's start with some Q&A:

Who are RED? – We are RED Fire Engineers - fire engineers and risk managers for clients who appreciate good service and on-time delivery.

What does RED do? – We think outside the box and relish the chance to create new techniques.

What will RED do for us? – We know that our success depends on yours, so we will go the extra mile. If there is a smarter, more efficient or effective solution for your project we'll help you find it!

Why should we go with RED? – Our team offers tailor-made fire engineering solutions for each project, large or small. We do this with a personal touch, in a manner that will make you want to come back again. We want to give you "the RED Fire Experience"!



*Our story
continues...*



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.



We consult with you

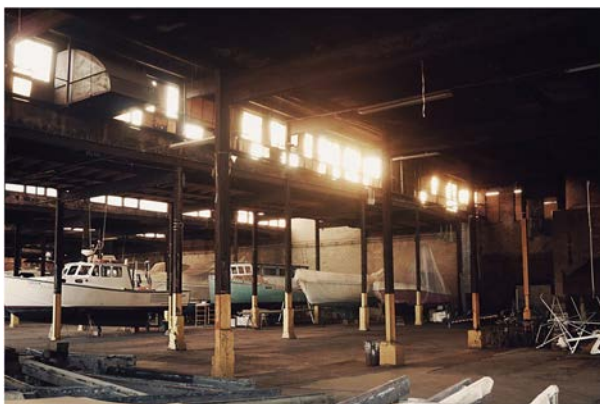


SERVICES OFFERED

RED provides support throughout the project life cycle, from feasibility/benchmarking studies, schematic design, detailed design, approval, construction, training to facility management.

We offer:

- 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



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



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.



*We are proud of our
high professional
standards*



RELEVANT PROJECT EXPERIENCE

The RED team have extensive international experience across all market sectors, including Property, Transport, Infrastructure, Industrial, and Environmental. Our staff is 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 the sectors listed.

CLADDING AND FACADES	LOCATION
RED Fire Engineers is a leader in providing fire engineering solutions for buildings found to have combustible façades. We have assisted dozens of Owners Corporations, OC managers, Councils and Building authorities to identify, classify the type of cladding, assess the risk, and plan remediation. Significant projects include:	
Property audits and Advisory Review Panels for Victorian Building Authority (c. 300 residential, educational, government and commercial buildings 2018-)	VIC
Department of Health and Human Services Hospital Audits (c. 20 buildings)	VIC
Department of Health and Human Services - Community Housing Audits (12 buildings)	VIC
High rise mixed use building - cladding assessment, response to building notices, and rectification for aluminium composite panels, glass reinforced polymer.	VIC
Low-rise residential building - cladding assessment, response to building notices, and rectification for timber cladding	VIC
Cladding review and rectification for three major sports stadia	VIC
Cladding review and rectification for two major sporting arenas	VIC
Project Management and fire engineering for façade scale fire testing of hospital external wall - EPS sandwich panel construction	VIC
Expert witness services for a high rise building dispute	NSW
We have carried out product reviews and building code compliance assessments for the following companies:	
Kingspan insulation and Kingspan insulated panels	
Fairview architectural	
James Hardie	
Weathertex	

HEALTH AND AGED CARE	LOCATION
Northern Beaches Hospital	NSW
Cabrini Hospital Stage 1-3 extensions	VIC
Royal North Shore Hospital peer review	NSW
Milward Place Aged Care Facility extensions	VIC
Hospital construction dispute - Expert Witness services	NT
Bushfire planning and fire matrix upgrade assessments, Uniting Aged Care - various sites	VIC
Albury Wodonga Health positron emission tomography (PET) scanner	VIC
Dame Eadith Walker Dementia care	NSW
Royal Dental Hospital Melbourne Fire Safety Audit	VIC



HEALTH AND AGED CARE	LOCATION
Mona Vale Hospital – Maternity Ward Refurbishment	NSW
Bathurst Hospital	NSW
Moruya Hospital Extension	NSW
Robina Hospital	QLD
Manilla Hospital	NSW
Perth Childrens Hospital Clients proof engineer (defects liability phase)	WA
Department of Health and Human Services Hospital Audits (c. 20 buildings)	VIC
Sunshine Hospital Acute Services Building Cladding replacement	VIC
Sunshine Hospital Acute Services Building Solar Panel risk assessment	VIC
Ballarat Health Services 5 yearly audit upgrades	VIC
Mercy Hospital Cladding review	VIC
Bishop Davies Court Aged Care Facility Extensions	TAS
Fred French Aged Care Facility Extensions	TAS
Royal Adelaide Hospital - Review of penetrations	SA
Western Hospital Footscray, Gordon St, Footscray	VIC
Williamstown Hospital 5 yearly audit upgrades	VIC

APARTMENTS AND HOTEL BUILDINGS	LOCATION
Gowings Building and State Theatre redevelopment (QT Hotel), Sydney	NSW
Quayside, Kingston Harbour	ACT
Miramare Gardens Hotel, Terrey Hills	NSW
1-4 Robert Street, Corrimal	NSW
28 Eastcrescent Street, McMahons Point	NSW
3 Winnie Street, Cremorne	NSW
2 Crows Nest Road, Waverton	NSW
30 Ramsgate Avenue, Bondi Beach	NSW
337 Barrenjoey Road, Newport	NSW
Dalgety Square apartments, Sydney	NSW
142 Booran Road, Glen Huntly	VIC
2-4 Samada Street, Notting Hill	VIC
32-48 Rosehill Street, Redfern	NSW
341 Heidelberg Road, Northcote	VIC
636 Darling Street, Rozelle	NSW
76-78 New Dapto Road, Wollongong	NSW
Banbury Village, Footscray	VIC
Common Ground, Sydney	NSW
Hyde Park Plaza, Sydney	NSW
Kyme Place, Port Melbourne	VIC
Mayada Apartments, Toorak	VIC
Silos Apartments, Collingwood	VIC
337 Barrenjoey Road, Newport	NSW
2 Crows Nest Road, Waverton	NSW
Hyde Park Plaza, Sydney	NSW
28 Eastcrescent Street, McMahons Point	NSW
Miramare Gardens Hotel, Terrey Hills	NSW
3 Winnie Street, Cremorne	NSW
30 Ramsgate Avenue, Bondi Beach	NSW



APARTMENTS AND HOTEL BUILDINGS	LOCATION
	Throughout Australia & New Zealand
IHG Hotels - review of newly constructed/rebranded facilities	
IHG Hotels - conversion of IHG brand standards to meet NZ and Australian Building legislation	
Land and Housing Corporation High Rise Building audits and upgrades	NSW
Land and Housing Corporation Fire Risk Manual	NSW
2 Hopkins St, Footscray	VIC
54 Winbirra Pde, Ashwood	VIC
Scape, Swanston St Modular Student Accommodation building, Melbourne	VIC
295-301 Bay St, Rockdale	NSW
240 New South Head Rd, Edgecliff	NSW
Lincoln Square North, Carlton	VIC
12-18 Dawson St, Surry Hills	NSW
666 Doncaster Rd, Doncaster	VIC
Shearwater Apt, Warners Bay	NSW
Royal Oak, Double Bay	NSW
University of Tasmania Apartments, Inveresk	TAS
Gardenhill Apartments, Doncaster	VIC
RACV Hotel Hobart	TAS

COMMERCIAL OFFICE	LOCATION
New Freyberg (NZ Defence Services Headquarters), Wellington	New Zealand
Vogel Integrated Campus (NZ Ministry of Justice offices), Wellington	New Zealand
Site 7 Kumutoto (NZ's first 5 Greenstar rated commercial building), Wellington	New Zealand
Quay Park One (Auckland's first 5 Greenstar rated commercial building), Wellington	New Zealand
Abu Dhabi Islamic Bank	United Arab Emirates
Barangaroo Headlands mixed use development	NSW
Alexandria Creative Park	NSW
F1/F2 (BNZ Wellington Offices), Wellington	New Zealand
Bond 1, Walsh Bay, Sydney	NSW
Macquarie Bank, Sydney	NSW
Victoria Towers, Chatswood	NSW
Altium, Belrose	NSW
TAL fitout Peer Review, George Street, Sydney	NSW
101 Miller Street, North Sydney	NSW
60 Station Street, Parramatta	NSW
202 Normanby Rd, Southbank	VIC
Central Station retail modelling, Haymarket, Sydney	NSW
47-49 William Street, Darlinghurst	NSW
Botanicca 3, Burnley	VIC
346-350 Windsor & 2 Seven Hills Rd, Baulkham Hills	NSW



COMMERCIAL OFFICE	LOCATION
96-110 Church St Richmond	VIC
Town Hall House L1-3	VIC
Harbour Control Tower adaptive reuse study, Barangaroo	NSW

RETAIL/SHOPPING CENTRES	LOCATION
Apple Flagship Store, Sydney	NSW
Chadstone Shopping Centre - fitouts for Kennedy, Paspaley, Celine, Fendi, Moncler, Cartier, Givenchy and Louis Vuitton stores	VIC
Castle Towers Shopping Centre Redevelopment Peer Review	NSW
Big W, Inverell	NSW
Arana Hills Shopping Centre Upgrade, Arana Hills	QLD
Palms Shopping Centre Refurbishments, Coffs Harbour	NSW
Jam Factory Redevelopment, Toorak	VIC
Coles, Coffs Harbour	NSW
312 George Street, Sydney	NSW
Bayview Ramsgate Development, Ramsgate Beach	NSW
Westfield Shoppingtown Queensgate redevelopment, Lower Hutt	New Zealand
Traralgon Shopping Centre redevelopment	VIC
Coles supermarkets wall lining reviews	Throughout Australia
Eastpoint Shopping Centre, Edgecliff	NSW
Albert Park Hotel, Albert Park	VIC
Toyota Car Dealership, Hoppers Crossing	VIC
Mercedes-Benz Dealership, Waverley	VIC
Porsche Melbourne Dealership Extensions	VIC
Queen Victoria Market Precinct Renewal	VIC

ROAD, RAIL, TUNNELS AND OTHER TRANSPORT INFRASTRUCTURE	LOCATION
North East Program Alliance, Rosanna Station Level Crossing Removal	VIC
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



ASSEMBLY	LOCATION
Wellington Regional Aquatic Centre	NZ
UAE University Aquatic Centre, Al Ain	United Arab Emirates
Swedish Church, Toorak	VIC
ANMM Warships Pavilion, Darling Harbour	NSW
Tasmanian Museum and Art Gallery, Hobart	TAS
Glenmore Hotel, The Rocks NSW Australian Heritage Hotel, The Rocks	NSW
Gemini Hotel, Randwick	NSW
The Australian Heritage Hotel, The Rocks	NSW
Dangrove Art Storage facility/Gallery, Alexandria	NSW
Monash University Library redevelopment, Caulfield	VIC
Forbes Hotel, 30 York St, Sydney	NSW
RACV Hotel redevelopment, Hobart	TAS
Village Cinema - VJunior slide assessment, various locations	VIC
Barangaroo Hedland Park - Peer review	NSW
Macarthur Memorial Park	NSW
State Library of NSW - Mitchell Building	NSW
Cirque du Soleil big top egress assessment - mutiple shows since 2013	Throughout Australia

HERITAGE STRUCTURES AND FACILITIES	LOCATION
Brisbane City Hall Redevelopment, Brisbane	QLD
Tasmanian Museum and Art Gallery Redevelopment, Hobart	TAS
39 Hunter Street, Sydney	NSW
Transport House, Sydney	NSW
Dame Eadith Walker Dementia care	NSW
Fitzroy Town Hall fire alarm assessment, Fitzroy	VIC
Polly Woodside, Melbourne	VIC
Ormond College McCaughey Building Refurbishment, Parkville	VIC
Jam Factory Redevelopment, Toorak	VIC
375 George Street, Sydney	NSW
Warehouses, Huntley Street, Alexandria	NSW
State Library NSW - Mitchell Building, Sydney	NSW

EDUCATION AND RESEARCH	LOCATION
UTS Great Hall Redevelopment, Sydney	NSW
Blue Mountains Grammar School	NSW
CSIRO Discovery Centre, Canberra	ACT
Resurrection House, Essendon	VIC
Queen Margaret College extensions, Wellington	New Zealand
UAE University, Al Ain smoke modelling	United Arab Emirates
Mount St Benedict College, Block E Redevelopment, Pennant Hills	NSW
Fisher Library, Sydney University, Darlington	NSW
Emanuel Synagogue Sydney, Woollahra	NSW
C2C Global, Haymarket	NSW
Jarjum College, Redfern	NSW



EDUCATION AND RESEARCH	LOCATION
Polly Woodside, Melbourne	VIC
St Andrews College Performing Arts Centre, Camperdown	NSW
UNSW, Cliffbrook Campus Redevelopment	NSW
Trinity Grammar School, Woollamia	NSW
Collingwood Arts Precinct Redevelopment	VIC
Manly Vale Public School, Manly Vale	NSW
Scotch Oakburn School North Precinct Redevelopment	VIC
St Mary's College, new indoor stadium, 53 Franklin St, Adelaide	SA

DEFENCE, POLICE AND DETENTION	LOCATION
Victoria Police Specialist Training Facility	VIC
Review of prison fire alarm systems throughout Victoria for Department of Justice	VIC
Dame Phyllis Frost Centre Mental Health and Cellar Accommodation buildings	VIC
Fulham Prison peer review	VIC
Project Single Living Environment and Accommodation Precinct (Project Single LEAP) - Phase 2 (14 sites)	Throughout Australia
Airborne Early Warning & Control in Support Service, Building 410, RAAF Base Amberley	QLD
Headquarters Joint Operations Command (HQJOC), Kowen	ACT
Qantas Hanger 96, Sydney	NSW
Building 83, Essendon Airport	VIC
Brisbane Domestic Airport Expansion	QLD
Mt Hotham Airfield/terminal due diligence assessment	VIC
New Freyberg (NZ Defence Services Headquarters), Wellington NZ	New Zealand
21 Construction Squadron, Amberley	QLD
Stokes Avenue Police Station	NSW
Villawood Immigration Detention Centre (internal refurbishment)	NSW
Malmsbury Youth Justice Centre Fire alarm system review	VIC
Downing Centre Courthouse refurbishment	NSW

INDUSTRIAL AND STORAGE/LOGISTICS	LOCATION
Swire Cold Storage:	
Laverton 2 (stages 1 & 2)	VIC
Lurnea	NSW
Welshpool	WA
Hemmant 3	QLD
Banjup	QLD
Cannons Hill	QLD
RAND Cold Storage:	
Erskine Park	NSW
Direk	SA
Benalla	VIC
Montague Truganina	VIC
Nestle Project Oceania	NSW
Tooheys Lidcombe Brewery	NSW
Heinz Echuca factory extensions	VIC
Heinz Wagga Wagga factory upgrade and alterations	NSW
SCT Rail Freight Terminal, Bromelton	QLD



INDUSTRIAL AND STORAGE/LOGISTICS	LOCATION
Nolan Meats, Gympie	QLD
Southern Steel storage warehouse	NSW
Hobson Engineering Warehouse, Larapinta	QLD
Volvo Truck Facility – Warehouse Extension, Wacol	QLD
Laminex Facilities, Toolara Forest	QLD
Batlow Apples, Batlow	NSW
Aurora - Wetherill Park Dairy Processing Facility Upgrade, Wetherill Park	NSW
Amtcor Orora Knoxfield	VIC
Graincorp Sunshine	VIC
Lion Beverages, Wetherill Park	NSW
John Dee, Rosehill Rd, Warwick	QLD
Dexus Warehouse, Erskine Park	NSW
Meyer Timber Warehouse, St Marys	NSW
Linfox Warehouse, Erskine Park	NSW
West Tuna Remote Access Tower HAZOP	VIC
Kemira, Risk Assessments	Sweden
Renex soil treatment and storage facility	VIC

CRITICAL INFRASTRUCTURE	LOCATION
Cross River Rail Tender review, QLD	QLD
Victorian Desalination plant	VIC
Com Hem, Risk- and Consequence Analysis, Sweden	Sweden
Detailed fire risk analysis (HJ Hansen Electromagnetic Environment A / S, Landskrona municipality), Sweden	Sweden
Air New Zealand Boeing 777 Training Simulator Hall	New Zealand
Risk Based Training Needs Analysis, RailCorp, NSW	NSW

INSPECTIONS AND AUDITS	LOCATION
Sydney Airport - Accessible Facilities review	NSW
Defence Single LEAP - construction inspections of dozens of accommodation buildings as part of this major project, plus Peer review of fire engineering design.	Throughout Australia
Rexam, Several Locations, USA	USA
St Vincents Public Hospital Building Code and Fire Safety Audits, VIC	VIC
Department of Planning, Victoria – Structural and Safety Audits of 60 properties throughout Victoria, with final reports delivered within 3 months of commission	VIC
Corrections Victoria Fire Alarm review	VIC
Property cladding audits and Advisory Review Panels for Victorian Building Authority (c. 300 residential, educational, government and commercial buildings 2018-)	VIC

EXPERT WITNESS AND ASSISTANCE WITH LEGAL MATTERS	LOCATION
<p>From time to time we assist with legal matters, whether this is assisting building owners to comply with Building Notices/Orders, or fire event reconstruction and design review, or acting as an expert witness up to Supreme Court level. The following is a selection of matters with our involvement:</p>	



EXPERT WITNESS AND ASSISTANCE WITH LEGAL MATTERS	LOCATION
Party wall and cladding expert witness for a domestic housing construction dispute	VIC
Warehouse fire in NSW – expert witness in relation to building design, fire growth and sprinkler system operation/effectiveness, including attendance at the expert witness conclave.	NSW
Regional hospital building in central Australia – expert witness to this dispute relating to the design and construction of the building.	NT
Residential building forming part of a resort in Queensland – expert witness to this dispute regarding the original design and construction.	QLD
Restaurant/shopping centre fire in Queensland – expert witness in relation to fire safety compliance, adequacy of construction of a fire wall, and fire re-construction analysis.	QLD
Cold storage building in Queensland – fire safety design and presentation to the Queensland Building and Development Tribunal. The design was approved by the Tribunal.	QLD
Cold storage building in South Australia – fire safety design and presentation to the Building Rules Assessment Commission. The design was approved by BRAC.	SA
Mining equipment fire in NSW – expert witness with respect to fire ignition and development, post-fire reconstruction, and reviewing adequacy of training and supervision of staff.	NSW
Residential apartment building in Victoria – review of original design and advice given to assist owner’s corporation in complying with a Building Order relating to fire safety, moisture proofing, structural design, and other issues.	VIC
Townhouses being used as student accommodation, Victoria – assistance to multiple owners to comply with council Building Order.	VIC

*The RED story
continues...*