

CAPABILITY STATEMENT

AED FIRE



Fire

Fire Engineering Advice and Consultation
Fire Safety Upgrade Services
Fire Engineering Alternative Solutions for BCA Compliance



About AED fire

Our team comprise highly experienced Fire Engineers, offering a personalised service and ensuring our clients' needs are always a priority. AED Fire's clients receive the benefit of our expertise on every project regardless of size and scope.

AED Fire are accredited fire engineers in New South Wales, Queensland, Australian Capital Territory, and Victoria.

AED Fire use the most current and sophisticated fire engineering computational tools available, including Computational Fluid Dynamic (CFD) fire modelling and three dimensional (3D) pedestrian modelling.

AED Fire are constantly testing, researching and applying other techniques in order to ensure that our solutions meet each project's specific requirements and objectives.

AED Fire are aware of cost implications and project timelines and are a project and client oriented organisation.

AED Fire strive to provide innovative, practicable and cost effective solutions in a timely manner resulting in positive design outcomes.

AED Fire are sympathetic to innovative architectural design and work closely with architects to enable new designs to be developed.

AED Fire Consulting Services

AED Fire provide fire engineering and performance based assessments. Our extensive industry experience ensures we are proficient in a wide variety of building project types and classifications. These range from complex large scale developments to smaller refurbishments and include private and public sector projects, residential, retail, commercial, health, defence, hospitality, and public entertainment.

- 💡 A problem solving approach that permits the project team to consider innovative approaches or unusual building types by tailored fire engineering design for your building, process or issue.
- 💡 Specialist fire safety engineering consultancy for the design of performance based alternative solutions.
- 💡 CFD modelling and 3D egress analysis.
- 💡 Expert experience and knowledge in fire and building services, including smoke control, sprinkler design and services interfaces that allow AED Fire to provide practicable and cost effective solutions.
- 💡 Assurance that the building will comply with the current legislation, codes and regulations. This includes devising solutions to design challenges that often present themselves when attempting to comply with the prescriptive requirements of the Building Code of Australia.
- 💡 Fire Engineers with broad experience in fire services, building services, emergency services, quality control, assurance and chemical engineering.
- 💡 Performing fire safety audits in relation to providing solutions to fire safety issues.

Project Showcase



HOTEL AND HOSPITALITY

Project Name:	Noah's Backpackers Bondi Beach, and other Hotel and Hostels
Client:	Sydney Backpackers Strand Hotel
Project Description:	Fire Upgrade Strategy based on addressing issues in a council fire order.
Value:	\$150k

TRANSPORTATION

Project Name:	Sydney International Terminal Building
Client:	SACL
Project Description:	Managing Isolations for Fire Safety Systems throughout the SACL international/domestic terminals and associated buildings at the Sydney Airport and the provision of Ad Hoc advice Fire Engineering Reports on Hangar building. Fire Safety Audit of Domestic Terminal T2
Value:	\$1m

AGED CARE

Project Name:	Aged Care Hostels
Client:	DAHC
Project Description:	Fire Engineering Reports
Value:	\$5m

RETAIL

Project Name:	Numerous Supermarkets, Major Retail Tenancies and Shopping Centres in NSW
Client:	Major supermarket and retail chains
Project Description:	Fire Engineering Reports to address the occupant egress from large supermarkets Major Retail Tenancies, and Shopping Centres using performance based smoke exhaust and sprinkler designs. 3D egress modelling was used to provide quantitative assessment of egress systems.
Value:	\$5m

Project Name:	Target Stores at Bowral and Burwood
Client:	Target
Project Description:	Alternative solution for smoke hazard management
Value:	\$200K

Project Name:	Auburn Central
Client:	Hoken
Project Description:	Fire safety upgrade
Value:	\$250K

RESIDENTIAL

Project Name:	Numerous Residential developments Zetland
Client:	Major Australian Residential Developer
Project Description:	Fire engineering Alternative Solutions for multi-building residential and mixed used complexes in Zetland.
Value:	\$20-100m

Project Name:	Victoria Square stage 2
Client:	Meriton Group
Project Description:	Multiple alternative solutions for residential tower and low rise residential buildings located on a podium.
Value:	\$50m

Project Name:	Hutchinson Walk
Client:	Meriton Group
Project Description:	Multiple alternative solutions for residential tower and low rise residential buildings located on a podium.
Value:	\$50m

Project Showcase



INDUSTRIAL

Project Name:	Industrial Warehouse Fire safety Upgrades
Client:	Major Australian Building Products manufacturer
Project Description:	Major fire engineering upgrade for the building following the issue of council fire safety order.
Value:	\$2-3m

Project Name:	Industrial Warehouse Darra, Qld
Client:	Industrial Chemical Production Company
Project Description:	Fire Engineering Report to address performance based sprinkler design for the large warehouse building.
Value:	\$300k

GOVERNMENT

Project Name:	Belmore EA Sub-station
Client:	Energy Australia
Project Description:	Alternative solutions for city substation.
Value:	\$20m

Project Name:	University Campus Redevelopment
Client:	Multi-Campus NSW University
Project Description:	Redevelopment of an existing university campus with fire engineering incorporated into the design to allow for an innovative design and reduced costs.
Value:	\$5-10m

Project Name:	RAAF Air Force Base NSW Location
Client:	RAAF
Project Description:	Redesign and reuse of a major building on an air force base to allow compliance with the BCA and MFPE.
Value:	\$5-10m

Project Name:	NSW Courthouse Fire and Life Safety Upgrades -Wagga Wagga Courthouse
Client:	NSW Government
Project Description:	Fire and life safety upgrades of NSW Courthouses.
Value:	\$2.5m

Project Name:	Town halls and Civic Centres Department of Education Building
Client:	Rockdale, Warringah and Maitland City Council, Department of Education
Project Description:	Fire Engineering Report including upgrade strategies for auditorium redevelopments. Many of these cases had significant heritage issues
Value:	\$500k

Project Name:	Non-explosive storage warehouse
Client:	C.C Pines
Project Description:	Alternative solutions to suit BCA and MFPE requirements
Value:	\$250k

Project Name:	NSW Services Offices
Client:	Dept. of Community
Project Description:	Break glass alarm removal program
Value:	\$200k