



CAPABILITY STATEMENT · AUSTRALIA WIDE

Fire strategies. Smoke modelling. Clear reports.

Performance-based fire engineering, evacuation modelling and ventilation assessments. Delivered by our in-house team, from early design through construction.

01 / What we deliver

Fire engineering

02 / Specialist analysis

Ventilation modelling

03 / Our people

Your engineering team

From fire strategy to **final report.**

We help architects, developers and project teams resolve fire safety requirements in new and existing buildings.

01 **Performance-based design**

Assess alternatives where prescriptive provisions constrain your building design, and document the fire engineering strategy for certifier and authority review.

DOCUMENTS & ADVICE

Performance-Based Design Briefs (PBDB) · Fire Engineering Reports (FER) · Deemed-to-Satisfy (DtS) consulting

02 **Fire, smoke & evacuation**

Use computational fluid dynamics (CFD) and evacuation modelling to assess fire scenarios, smoke movement and how occupants leave a building.

ANALYSIS

Fire severity · Radiant heat transfer · Structural fire resistance · Human behaviour simulation

03 **Existing & heritage buildings**

Inspect existing conditions, assess fire risks and develop mitigation options to inform upgrades and refurbishment.

PROJECT SUPPORT

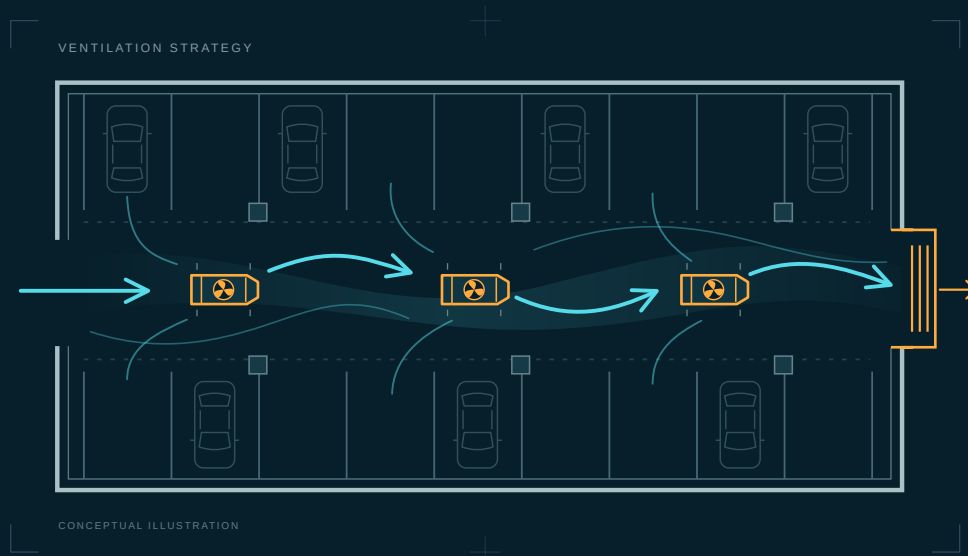
Fire safety audits · Risk assessments · Site inspections · Construction and completion review

ACROSS THE BUILT ENVIRONMENT

Residential · Commercial · Industrial · Healthcare & aged care · Education · Heritage · Retail · Transport

Test the ventilation. Refine the design.

Carpark CO modelling and ventilation performance solutions for car parks, warehouses, theatres and similar venues.



Concept illustration / Carpark ventilation

Assess the options before you commit.

We model proposed ventilation arrangements to assess how they perform for the building's use and project requirements.

The findings inform the ventilation strategy and the next design decision.

Carpark carbon monoxide (CO) modelling

Jet fan and reduced ductwork options

Mechanical and natural ventilation analysis

One engineering team.
From the brief to the findings.

Brief

Agree the question and scope.

Model

Assess the proposed design.

Report

Explain the findings and options.

Meet your fire engineers.

Direct conversations with the people developing the strategy, running the models and preparing your reports.



Fire Engineer / 17+ years' experience

Michael Greenwood

Performance-based fire strategies and coordination with project teams, regulatory bodies and referral agencies.



Fire Engineer / 7+ years' experience

Tristan Goode

Bachelor's and master's engineering degrees from the University of Queensland.
Performance-based design and peer-reviewed fire safety research.



Fire Engineer

Alexandra (Sasha) Leschuk

Fire protection systems, CFD modelling and technical reporting, with a foundation in nuclear engineering.

LET'S TALK ABOUT YOUR PROJECT

Talk to a fire engineer.

Send us your drawings, building use and project stage.

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