



Quill Essential

AS 1668.1 Fire & Smoke Control Specialists

FIRE AND SMOKE

Air-conditioning and ventilation systems spread smoke through multi compartment buildings and are the leading cause of death in fire events.

We understand the requirement of AS/NZ 1668.1 and AS/NZ 1682. and provide practical solutions to building owners as well as Fire and HVAC contractors.

KNOWLEDGE
SAFETY
ASSURANCE

PRACTICAL
SOLUTIONS

OUR MAIN FOCUS

Fire and Smoke Control in commercial buildings

Quill Essential specialises in HVAC fire and smoke control. That's our main focus.

Installation and maintenance of mechanical fire and smoke control systems in buildings.

Fire Damper installation, maintenance and upgrades.

Stair Pressurisation and zone smoke control systems.

Site specific planned maintenance of mechanical smoke control systems.

Carpark and kitchen exhaust and smoke control.

Regulatory compliance and certification.

FIRE AND SMOKE CONTROL

Quill Essential is highly specialised in Fire and Smoke Control of multi compartment buildings. Multi residential, aged care and commercial buildings all incorporate complex ventilation systems.

AS/NZ 1668.1 and AS/NZ 1682.1&2 are often misinterpreted by builders, HVAC installers and Fire contractors. With over 35 years experience we were an early leader implementation of mechanical air handling solutions in Australia with hundreds of successful upgrades.

Our solutions have regularly saved building owners from huge upgrade costs where previous advice was just wrong. We understand risk and fix it. Quill Essential can provide smart solutions to complex problems.

MECHANICAL AIR HANDLING

Mechanical Air Handling means transport of very large volumes of air through buildings using mechanical fans and blowers.

Of course movement of air through ventilation ducts means movement of smoke through separate fire zones and smoke zones.

It is often poorly understood that smoke kills well before fire reaches an occupied space.

STAIRWELL PRESSURISATION

Safe exit pathways in High Rise buildings means lives saved in event of fire.

Nothing is more important than safe exit of people and sadly these complex systems are not well understood by most HVAC or Fire Contactors.

OBJECTIVES

- Manage regulatory compliance – Annual Fire Statement. Signed off by competent fire safety practitioner.
- Limit the migration of smoke within a building due to fire.
- Extract heat and smoke from building and prevent it from spreading
- Fire protection of openings and penetrations.
- Deliver professional support to building owners and managers.



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FIRE DAMPERS

Fire Dampers Stop Fire. Quill Essential are specialists in Fire Damper maintenance and service.

Our team have over 35 years experience in managing the risk involved with installation and servicing of fire dampers in Australia.

We have installed thousands of fire dampers in building upgrades.

SMOKE SAFE DAMPER

Finally disruptive innovation in Fire Smoke Control. Quill Essential has changed the concept of Fire and Smoke Control as it is understood under AS/NZ 1668.1 and AS/NZ 1670.1.

This patented smoke management device is a fast acting smoke control system.

REGULATORY COMPLIANCE

The Annual Fire Safety Statement is a critical document we prepare that assures building owners that all appropriate fire safety measures (mechanical) are tested and capable of the minimum standard of performance. Liason with council if required.



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