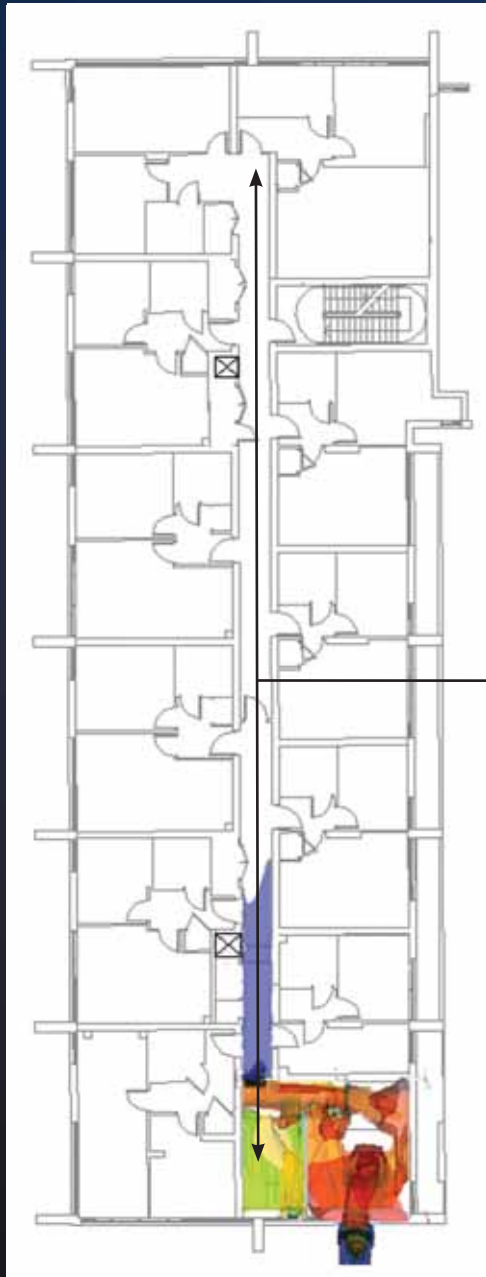


Fan assisted smoke venting systems



30m
Extended
travel
distances



Fire Design Solutions provides fan assisted smoke venting systems that are proven to outperform standard code based systems.

Developed using the first principles of fire engineering, our Fan Assisted System (FAS) offers clients a cost effective solution, greater design flexibility and an enhanced level of life safety.

In the event of a fire, fan assisted smoke venting systems remove smoke from the building to aid the occupants' means of escape and provide clear access for fire fighting services. Unlike natural ventilation systems, FAS is unaffected by wind conditions.



Innovative Solution

The result of an extensive research and development programme by Fire Design Solutions, the Fan Assisted System confronts the inadequacies of standard code based smoke venting systems and provides a flexible cost effective solution. Following our research and development initiative, a section of the new CIBSE Guide E was co-authored by Fire Design Solutions, outlining the concept.

The Fan Assisted System is proven to rapidly remove smoke, keeping vital escape and access routes smoke free. Such efficiency has seen the innovative system gain approval from the NHBC, various Building Control Bodies and Fire Officers in England and Ireland. It is recognised the standard of smoke management offered by FAS is higher than the code requirements. Leading fire engineering consultancy groups reference the Fan Assisted System as the preferred method.

Client Benefits

The FAS offers developers a number of tangible benefits. It has the highest floor space efficiency of any system available, utilising low area smoke shaft(s) and maximising saleable floor area. The system offers greater design flexibility and allows for the location of the stair and lobby within the central low cost area of the development and away from the exterior of the building. Where designed as part of a fire engineered solution, the system is able to allow for extended travel distances up to 30m in a single direction, therefore allowing many large buildings to be built with only a single stair.

Installation of the system is simple and coordinates easily with other trades, whilst ongoing maintenance costs are low.

The Fan Assisted System may be utilised for other design and environmental benefits. Fire Design Solutions can provide design advice to achieve a total solution for clients.

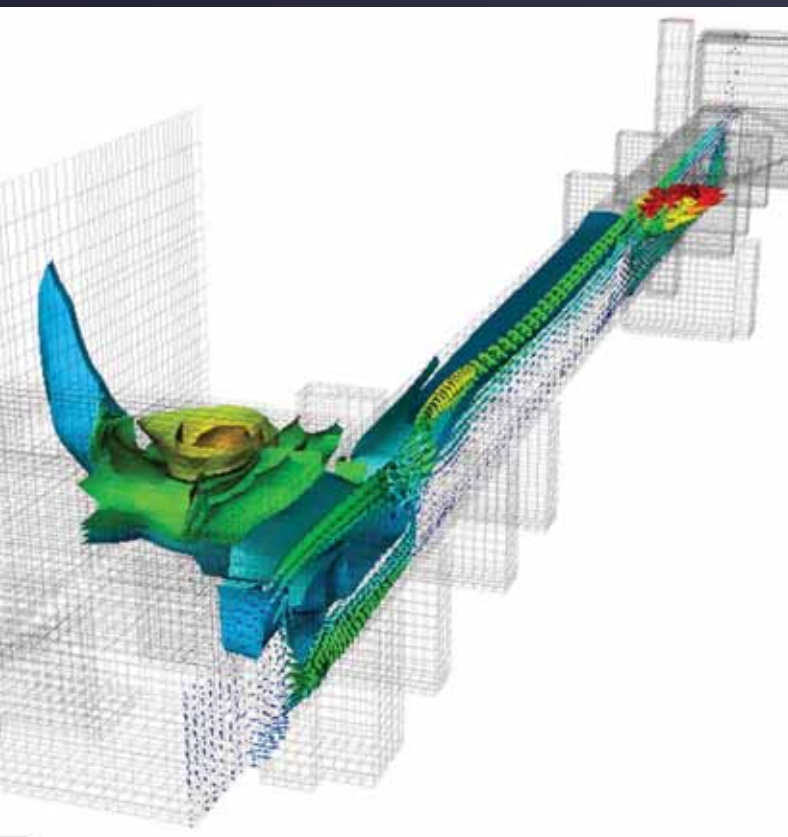
No Hidden Costs

The Fan Assisted System has no hidden costs and utilises a single interface panel with only one fused spur required per shaft. In contrast, other systems demand an interface and spur for every floor – making them over complicated and expensive in comparison.

Integrated Services

Fire Design Solutions provides a complete turnkey solution including design, supply, installation, commission and maintenance of the system. We are able to provide the FAS as an individual system or as part of a total solution for the entire building, incorporating all aspects of fire safety.

The Fan Assisted System provides an alternative engineered solution to natural ventilation or pressurised methods and offers substantial client benefits, together with the highest standards of life safety.



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