



## Residential Sprinkler Systems

Fire Design Solutions provides a fully integrated cost-effective design and install service for residential sprinkler systems, engineered to offer occupants the safest possible protection from fire. They are designed specifically to control the spread of a fire within an apartment and from that apartment to any other; essential considerations in any residential building's evacuation philosophy. For people living in high-rise buildings or those who may otherwise struggle with mobility, they can be a life saver.

The importance of sprinkler systems is reiterated within the latest revision of Approved Document B - sprinkler systems are now an absolute requirement on residential developments with floors 30m above ground level.

FDS provide a complete range of systems, from basic, code-compliant systems to enhanced, value-engineered systems that enable ongoing maintenance to take place in the common areas, thereby avoiding the need to enter individual apartments every six months. Our innovative approach, assisted by our full-scale testing unit, has also allowed us to offer solutions to enable open plan apartment design.

At FDS, we're always driving innovation and now unnecessary water damage due to false activation of sprinklers in residential buildings could soon be a thing of the past, thanks to a groundbreaking new sprinkler system we have designed and developed.

Designed to offer a sprinkler system solution for open plan layouts, the new FDS AS01 Apartment sprinkler system offers increased design flexibility, allowing apartments to be constructed as open-plan living areas without the need for a protected entrance hall, internal fire doors, fire resistant walls and fire collars. Thanks to the advanced multi-criteria detection systems used to operate the sprinkler heads, which activate the sprinkler if a fire is detected anywhere within the apartment, the sprinkler system offers enhanced performance and functionality, dramatically improving the building's fire safety. Meanwhile, the system's ultra efficient water release system minimises the potential for false activation, preventing the risk of unnecessary water damage which is often associated with conventional sprinkler systems.

FDS Residential Sprinkler Systems offer significant benefits including:

- A value-engineered alternative to the basic code standards
- Open plan apartment layouts
- A failsafe 'double knock' system to minimise potential accidental discharge
- Increased speed of installation
- Removal of dedicated pumps, tanks and additional vertical pipework
- Aesthetically pleasing head arrangement
- Full Professional Design Service
- Fully researched and tested systems

Fire Design Solutions engineers work closely with architects on all aspects of sprinkler system design and installation to ensure the most cost effective implementation for their clients.

standards that are far from standard



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