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Moving away from component regulations, the most important design and specification reference is Building Regulations Approved Document B (ADB), which not only provides all the necessary guidance on escape travel distances and smoke control options, but also gives advice on the location of vents, free area calculations and other key specifications.

In a smoke clearance system, we simply need to provide an extract rate based on the volume of the car park. In a Smoke Control system, we need to limit the travel of smoke within the car park. This requires an engineered solution, including careful impulse fan coordination and calculated extract rates, based on a predetermined design fire size.

CAR PARK VENTILATION. Renowned for Outstanding Service. At PSB UK Ltd we design the ultimate smoke control systems using the latest advanced technology. Specialists in impulse ventilation systems for both above ground and below ground applications, we are committed to delivering design solutions and products that perform well above the maximum requirements of our clients and their projects.

We have considerable experience in the design and implementation of smoke control systems or smoke ventilation in car parks. Colt offers the latest technology in impulse or induction ventilation systems, comprising of relatively small fan units positioned around the car park, eliminating the need for disruptive ductwork.

Important standards in smoke control: BS 9991: 2011 - Fire safety in the design, management and use of residential buildings. BS 9999: 2008 - Code of practice for fire safety in the design, management and use of buildings. BS EN 12101-6: 2005 - Specification for Pressure Differential Systems

How to design for smoke control - Design steps 1. Determine design fire size according to whether or not there are sprinklers -SLIDE 2. Determine zone layout, at least one extract and one supply point per zone. Decide on general flow distribution and smoke travel distance 3.

The guide's author, James Allen, senior fire safety and CFD design engineer at Fläkt Woods, explained: "Many enclosed car parks throughout the world employ jet fans to help clear smoke in the event of a fire with good effect. However, current practice relies heavily on air change rates when designing such systems.

Computational Fluid Dynamics (CFD) Modelling is a design tool that aids the detailed design of mechanical smoke ventilation systems and is required when applying a fire engineered solution that is not code compliant or an ADB prescribed solution. FDS presents the CFD results in a report for submission to building control and as part of our service will take the design through the approvals process.

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designed to control smoke movement by passively containing it within the smoke-source area. Smoke venting uses non-ducted, stand-alone equipment (i.e., smoke vents in building envelopes) de-signed to control smoke movement by releasing it under its own pressure to the outside. Smoke-control uses equipment (e.g., fans, ductwork, dampers, smoke de-

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safety systems such as smoke control. A well designed smoke control system should be able to maintain smoke free escape conditions at low level to allow the building to be evacuated with minimum risk of smoke inhalation, injury or death. Colt has considerable experience in the design and implementation of smoke control systems in Shopping Centres and

Smoke Control System Design. Smoke control systems keep building occupants safe from smoke generated during unwanted fires. Requirements for smoke control systems are given in Section 909 of the 2007 and 2010 International Building Code (IBC), the primary model building code used in the United States. For atrium smoke control, IBC 909 refers to NFPA 92B, "Standard for Smoke Management Systems in Malls, Atria, and Large Spaces" for the design of smoke control systems.

With impulsation ventilation, it is possible to design smoke control systems to be used when there is a fire and which satisfy the three standards enshrined in British and Belgian regulations. JF F400 Long Range Axail Jet Fan. Design. Jet fans especially designed for tunnel ventilation. 400°C/2h, 300°C/1h and 200°C/2h Certificates according to model

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Smoke ventilation is needed to provide a means of clearing smoke from the car park during and after a fire. This will limit smoke temperatures and structural damage and inhibit smoke spread between floors. Smoke ventilation systems may be designed in addition to provide clear smoke-free access for fire fighters to tackle the seat of the fire or to protect means of escape from the car park.

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