



Smoke Curtains/Smoke Barriers

Coopers SmokeStop Smoke Curtains are designed as barriers to contain and/or control the movement of the fire effluent (smoke) in the event of a fire thus limiting its travel, or slowing down the entry of smoke into another area or void. They are used to achieve separation between the main smoke reservoir and adjacent spaces higher than the design smoke layer base in the smoke reservoir so that smoke is buoyant and can be extracted at high level.



Coopers Automatic Smoke Curtains are fitted to airports and shopping malls all over the world.

Smoke curtains using overlapping rollers have an unlimited width with drops up to 12m. In the soon to be completed Dubai International Airport some smoke curtains are up to 225m wide and drops up to 6m.

Coopers smoke curtains are in accordance with BS EN12101-1:2006 (enabling CE marking of the system) and BS7346-3, BS476-6 & 7.

Smoke Curtains are designed to activate upon receipt of a signal from either a fire alarm system, or locally positioned detector. Smoke Curtains are used to;

1. To act as a smoke separating element within the building design to prevent the passage of smoke, heat or superheated gases for a predetermined period of time in either the vertical or horizontal orientation,
2. To assist designers to form smoke reservoirs and compartments to minimise lateral smoke spread and/or to assist the SHEVS (smoke heat exhaust ventilation) system,
3. Can descend after a set predetermined period of time, to a predetermined position to assist with protected means of escape,
4. Descending to a predetermined position for a predetermined time to create a smoke layer reservoir; ensuring the protected means of escape remains open longer prior to descending to their fire operational position after planned evacuation times.

With ever increasing environmental safety legislation putting more restrictions on building design; integrating smoke containment systems that are compatible with good design is making designers' lives easier. Smoke curtains are proving to be the first choice for combining effective smoke protection with the latest trends in interior design.

The most universal type used is the automatic smoke curtain. A smoke curtain comprising of a fire resistant fabric rolled around a roller, which is driven by an internal, electrically powered, tubular motor. The complete assembly is housed within casing that is mounted either directly on, or in the void above the ceiling.

Solid barriers can provide effective smoke containment, but automatic smoke curtains are far more sympathetic to the requirements of design, appearance and building function.



Coopers Smoke curtains with overlapping rollers with widths of 225m have been fitted to Dubai International Airport



Coopers Smoke Curtain with curved 'all in one' ceiling interface