Coopers

Fire and Smoke Engineering

Fire Curtains/Fire Barriers

Coopers FireMaster offers both 2 and 4 hour integrity fire curtains as a revolution in active fire separation.

FireMaster is tested for fire resistance from either, or both directions and it allows escape for occupants and entry for emergency services through or under the curtains. With delayed and/or split drop deployment the control system offers safe escape as well as controlled gravity failsafe, auto retract, or fully addressable local or remote monitoring, enabling easy integration with a dedicated fire alarm system, or building management suite.

Coopers FireMaster Fire Curtains are designed as barriers to prevent the spread of fire. Fire curtains use side guides channels either side of the curtain opening to retain the fire resistant curtain material which is subjected to pressure in a fire. Coopers FireMaster Fire Curtains are in accordance with BS EN1634-1, BS476-6, 7 & 22, 31.1, and BS7346-3. Coopers have UAE Civil Defense Approval, and independent UAE product listing approval from different agencies.

Fire curtain technology is safe and as standard incorporates a total fail-safe by gravity system in the event of total mains, wiring and/or system corruption. A technology originally patented by Coopers in the late 1970 s which is still used today. Systems are also supplied with Battery Back Up and Emergency Supply in the event of a prolonged mains failure. Installing a large roller fire wall fire curtain to replace a non-bearing wall opens up exciting design possibilities for architects and construction engineers.

Coopers Fire curtains have a rating 240 minutes at 1000° C

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

1. To act as a fire separating element within the building design to prevent the passage of smoke, heat, superheated gases and fire for a predetermined period of time in either the vertical or horizontal orientation.
2. To assist designers to form fire compartmentation to minimise fire spread and/or to assist the SHEVS (smoke heat exhaust ventilation) system.

Coopers Fire curtains with overlapping rollers up to 54m wide and drops of up to 8m

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.

Cutting edge technologies enables active fire curtains to revolutionise fire engineering solutions. Providing clients and their designers with an effective alternative to traditional fire shutters and fire doors thus allowing a far greater flexibility in design for both refurbishment or new buildings.

Design can include the use of virtual lift lobbies, escalator and stairwell protection and be used in combination with non-fire rated glazing for building separation. Coopers Fire Curtains provide an effective alternative to fire shutters and fire doors and are used extensively as part of the fire engineered solution in domestic dwellings, commercial and industrial applications such as airports, shopping centres, offices, factories etc, where the need for maintaining open areas for access is vital. Fully retracted fire curtains provide a less cumbersome and more aesthetic alternative to other traditional fire compartmentation elements.

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