NAFFCO
PASSION TO PROTECT

FIRE & SMOKE CURTAINS

SI-KA-TEC®
engineering coating · GmbH

FIRE CURTAIN

A Fire Curtain in a building creates a fire-resistant barrier which protects and separates a part or a section of the building from fire or smoke damage in the event of a fire mishap. The Fire Curtain is a part of fire safety measure, it is either fixed or it automatically drops and separates the area when activated by fire.
Compared to a Smoke Curtain, it includes a coated glass fabric with stainless steel wire insert as an additional safety measure to offer protection from sudden impacts and to with stand a fire resistance temperature of 1100˚C for 120 minutes or more of fire exposure.

SMOKE CURTAIN

A Smoke Curtain in a building will guide the smoke which consists of gas and small particles send into the air by burning materials to an extraction system within the building and effectively protect people from the exposure to dangerous smoke as well as limits the damage and further spread of fire.
A fixed Smoke Curtain or an automatic Smoke Curtain separates an area and keeps the smoke from spreading from one area to another. Silicone or PU coated woven glass fabric is used as a standard material to withstand a fire resistance temperature of 600˚C for 60 minutes of exposure to fire.

Applications

As Fire Curtains or Smoke Curtains in Shopping malls, Retail Centers, Hotels, Airports, Airport Hangars, Hospitals, Public buildings, Theatres, Railway stations, Tunnels, Car parks, Offices, Metro stations, Draft screens in tall buildings as well as for Passive Fire Protection, heat protection including insulations, special applications for Medical facilities, as marine fire curtains and many more applications

The standard material complies with the following standard

* Complied with Euro class EN 13501 – 1 + A1 : 2009
* Material of limited combustibility in accordance with approved documents B of the building regulations of the United Kingdom (Equivalent to A2)
* BS 476 part of 6 1989 and BS 476 part 7 1987

Carrier Materials and Coating

Fire Curtain

High quality 67% woven E-glass and 33% stainless steel wire fabric (630g/m²) or Panama weave fabric coated on one side or both sides with 25g of Polyurethane, has an approximate thickness of 0.7 mm and total weight of 680g/ m²

Smoke Curtain

High quality woven glass fabric (430g/m²) or panama weave fabric coated with 40g of silicone each side, has a thickness of 0.4mm and total weight of 510g/m².

High quality woven glass fabric (430g/m²) coated with 20g polyurethane each side, has a thickness of 0.4 mm and total weight of 470g/ m²

Fabric will meet to the following test when it is tested as a full system:

* BS EN 1201 – 1 : 2005 + A1 : 2006
  Smoke and heat control systems specifications for smoke barriers
* BS EN 1634 – 1 : 2008 – Monitoring of air temperature
* BS EN 1634 – 3 : 2004
  Fire resistance. Smoke control tests
* BS EN 1364 – 1 : 1999
  Fire resistance tests for non-loadbearing elements Walls
* BS 8524 – 1 : 2013 -Active Fire curtain barrier assemblies and specifications
* BS 5234 – 2 - 1992 - Partitions (including matching linings) Specifications for performance requirements for strength and robustness including methods of test

Key Facts

- Excellent fire properties
- Excellent fire resistance properties up to 240 minutes
- Anti-bacterial, anti-fungal and dew-resistant
- High heat reflection due to Aluminium pigment
- No smoke leakage
- High integrity due to the wire weaves
- Excellent mechanical properties
- High Cut resistance and flexibility
- Available width aprox. 100/125/150 cm
- Color - Grey

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