



FMI Fire Curtain

Automatic Fire Curtain

Data Sheet

THE PURPOSE OF A FIRE CURTAIN

The purpose of a fire curtain is to seal off an area to contain a fire and to prevent that fire from spreading to other areas. A fire curtain is used where, if there is a fire, it is necessary to create a temporary barrier within an opening. This barrier should not be visible at any other time.

THE COLT FMI FIRE CURTAIN

The Colt FMI Fire Curtain is low in weight and has minimal dimensions, which enables it to be installed easily in places with space constraints such as within a false ceiling.

The Colt FMI Fire Curtain automatically descends on receipt of a signal from the fire alarm panel or upon loss of power. Once this signal has been reset it automatically retracts.

CLASSIFICATION

The Colt FMI Fire Curtain has been tested to EN 1634-1 and is classified E60-C, E120-C or E180-C in accordance with EN 13501-2:2007, thereby achieving an integrity rating for either 60, 120 or 180 minutes.

The Colt FMI is also approved to the Australian Standard AS 1530.4-2005.

It has achieved a successful continuous performance test (10,000 cycles) in accordance with DIN 4102-18.

The E 120 and E 180 fabrics achieve a EW 30 classification in accordance with EN 13501-2, demonstrating that this fabric re-radiates only a limited amount of heat.

HOW THE COLT FMI FIRE CURTAIN WORKS

The fire curtain comprises a flexible heat resistant fabric which is impervious to smoke and hot gases, wound round a tube. The tube contains an electric motor which normally holds the curtain retracted at ceiling level.

Upon receiving a signal from the fire detection system or on loss of power the curtain automatically unwinds in a controlled, gravity failsafe manner. A heavy bottom bar is fitted to the bottom edge of the fabric to pull the curtain down, to keep the material taut and to provide a suitable finish when the curtain is retracted.

Metal side guides with a fabric retaining system provide a seal between the curtain fabric and the building. The fabric retaining system ensures that a seal is maintained and that the fabric does not spill out of the side guides under fire or other pressures.

FEATURES OF THE COLT FMI FIRE CURTAIN

- Third party testing and certification in accordance with EN 1634-1 (Warrington Fire)
- Three fire classification options: E60-C, E120-C or E180-C

- Heat stabilized coating for the fabric, with a stainless steel inlay for the E 120 and E180 options. The E 120 and E 180 fabrics achieve a EW 30 classification. The E 60, E 120 and E 180 fabrics all achieve the building classification A2 S1 d0 to EN13501-2: 2007 ("Fire classification of construction products and building elements")
- Reliable: achieves 10,000 cycles
- Two bottom bar options depending on the desired application. An "Industrial" bottom bar with closure arrangement to ensure a tight seal even with uneven floors. An alternative "Commercial" bottom bar which is virtually invisible when curtain rolled up
- A certified tube side guide or roller side guide system
- Expansion joints to allow for thermal movement incorporated into the design
- Removable access panel for headbox integral 48V DC drive assembly which maintains a steady rate of gravity failsafe fall (approx. 0.12 m/s)
- A single 28 KGF overall torque drive
- Simple controls to receive external fire signals and for testing
- Supplied in partly pre-assembled form for fast installation.

