

FireMaster® SuperPlus

insulated fire curtain using sprinklers (-/120/120)



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delivering engineered solutions

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FireMaster® SuperPlus™ is a fire curtain used in conjunction with tested sprinklers to cool the surface of the curtain thus reducing the ambient temperature on the safe side of the curtain when a fire is burning on the opposing side.

The FireMaster® SuperPlus™ fire curtain has the same fabric as the FireMaster fire curtain and uses the cooling effect of water from the sprinklers to provide insulation performance. Sprinklers are activated from local heat detectors installed adjacent to the fire curtain.

Fire Rating	Max Width	Max Height
- /120 / 120	30 metres	4 metres

operation

FireMaster® SuperPlus™ will remain retracted within its head box until it is automatically activated by the fire alarm signal. Once activated it will completely close the opening, creating a fire and smoke compartment. Deployment is by gravity at a controlled speed of 0.06 - 0.15m/s. The only true gravity failsafe product on the market.

Sprinkler activation is to be designed by others. The sprinklers are open head and all activate at once.

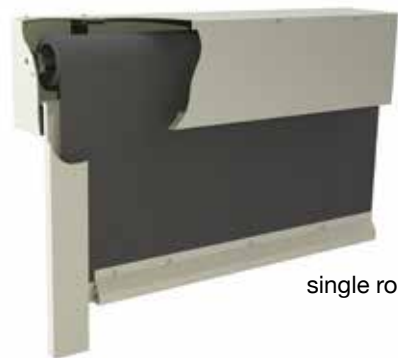
Testing is performed by a simple key switch. It is reset manually by pressing a reset button on the control panel. Automatic reset is available. Ensure that the sprinklers are isolated before testing the fire curtain.

material finish

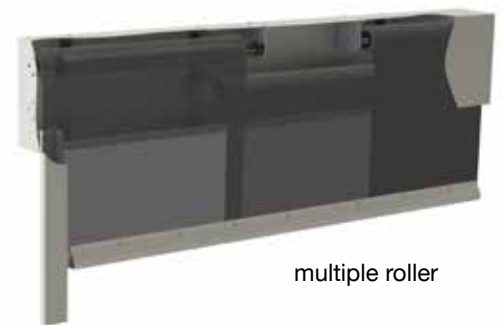
Metalwork is zinc coated mild steel. This can be painted on site or powder coated to DULUX or RAL colours.

fire curtain construction

Each roller is up to 5m wide with multiple roller construction up to 30m wide. Wide Single Roller (WSR) construction is available up to 17m wide.



single roller



multiple roller



Benefits

- Provides insulation performance where it is essential
- 2 hour fire integrity
- 2 hour insulation
- Tested and proven system to work with flexible fire curtain
- Patented TOTAL fail-safe by gravity which means it will work when required



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headbox installation options



unistrut and drop rods



I beam



face fixed



soffit fixed

side guides

Side guide channels seal the curtain fabric and the building. As fire can cause extreme positive or negative pressures, Coopers' unique fabric locking system has been developed and proven over many years to prevent fire spread and smoke leakage.



end fixed



face fixed



recess fixed
(recommended 5mm gap between side guide and building material)

fire curtain concealment

Standard bottom bar is Jumbo which is a triangular shaped bar 40mm wide. Also available operable ceiling interface systems (SLAT) in 150mm profile and 75mm stall plate.



flush fit



suspended ceiling with SLAT
(self levelling access trim) for ease of maintenance through ceiling - no need for destructive access



removable, reinforced suspended ceiling with stall plate

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fire rating

Full scale and full assembly fire testing to AS1530.4 providing full 2 hour fire rating including insulation. Testing also includes motor testing and proving 12 operating cycles across 30 minutes fire exposure.

No need to fire protect the headbox or side guides as the complete product is fire rated. Assessment report EXOVA EWFA-RIR-26371.

sprinkler requirements

The design and supply of the detectors and activation devices are by others. These shall be suitable to supply the requirements in the table below for the duration of insulation required, up to 2 hours.

The sprinklers shall be activated by a suitable device, designed by others. The detector shall activate the sprinklers on the non fire side only.



Requirement	Specification
Sprinkler head	Viking C1 window sprinkler
Fire one direction	Sprinklers on non-fire side
Fire both directions	Sprinklers on both sides
Sprinkler setback from curtain face	380mm (+20mm)
Sprinkler vertical position	Base of sprinkler level to the bottom of the headbox
Flow rate	3m height - 27l/min/head 4m height - 36l/min/head
Sprinkler head spacing	840mm maximum

downloads

[specification](#)

[drawings pdf](#)

[drawings cad](#)

[test certificate](#)

