# FireMaster® S

## fire and smoke containment curtain



greene fire

delivering engineered solutions

# FireMaster® S

The FireMaster® S Active Fire Barrier is an automatic fire curtain which comprises technologically advanced fire-resistant fabric roller barriers encased in a compact steel housing.

The unique construction housing and additional tested smoke seals provide a smoke tight solution fully tested to AS1530.7(2007).

| Fire Rating | Max Width | Max Height |
|---|---|---|
| - / 240 / - | 30 metres | 6 metres |
| - / 120 / - | 30 metres | 9 metres |

## operation
FireMaster® S 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.
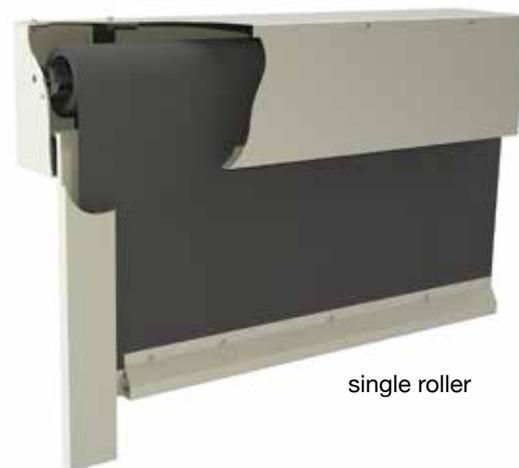
Testing is performed by a simple key switch. It is reset manually by pressing a reset button on the control panel. Automatic reset is available.

## fire curtain construction
Single roller construction only. Each roller is up to 30 meters wide and has a minimum of 70mm diameter with a wall thickness of not less than 1.5mm. Rollers wider than 5 meters are wide single rollers incorporating Wide Single Roller (WSR) head boxing.

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

single roller

### Benefits

- Provides both fire separation and smoke containment
- Smoke tight construction with tested performance to AS1530.7 (2007)
- Smoke performance has been tested when exposed to 200°C for 30 minutes

240mins

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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. Smoke seals are incorporated into the side guides.



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 fire integrity up to 4 hours. 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-21553.

#### Incident Irradiance (kW/m$^2$)

| Time (min) | $I_o$ - omm | $I_{1000}$ - 1000mm |
|:---:|:---:|:---:|
| 0 | 0.00 | 0.00 |
| 15 | 16.32 | 12.00 |
| 30 | 23.12 | 17.00 |
| 60 | 32.64 | 24.00 |
| 120 | 48.97 | 36.00 |

bsi. ISO 9001 Quality Management

bsi. ISO 14001 Environmental Management

bsi. AS/NZS 4801:2001 Occupational Health and Safety Management

### smoke rating

The complete product is tested to AS1530.7 (2007). Standard Reference Conditions (STP) @ 200°C and 25Pa after exposure for 30 minutes. Assessment report EXOVA BWA-RIR-2252.

| | |
|---|---|
| Fabric | 0.5m$^3$/m$^2$/hr |
| Side Guides and Head Box | 3.6m$^3$/m$^2$/hr |
| Threshold | 7.3m$^3$/m$^2$/hr |

### downloads

specification

drawings pdf

drawings cad

radiation calculator

leakage calculator