

smokestop™

Automatic smoke curtain



revision 5.0 November 2019

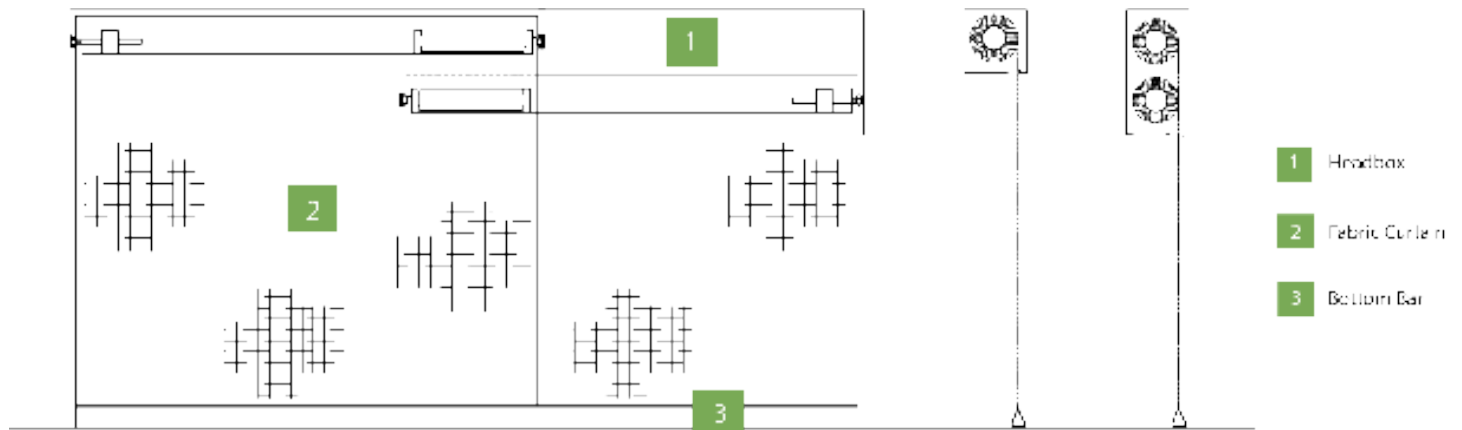
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smokestop™

Automatic smoke curtain

A smoke curtain is a device that controls the movement of smoke during a fire by directing the smoke towards mechanical or natural ventilation points. Traditionally smoke curtains have been used as an integral part of a naturally ventilated building however smoke curtains are proving to be a cost effective solution in conjunction with mechanical ventilation.

The smokestop™ active smoke barrier is an automatic smoke curtain which comprises of technologically advanced fire-resistant fabric roller barriers encased in a compact steel housing.



fabric

The curtain material is a fibreglass fabric with a micronized aluminium filled fire retardant polyurethane and weighs approximately 465g/m² in its finished form.

material finish

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

side guides and edge gaps

Side guides are only required if the designer requires a 0mm edge gap at the sides. Standard side edge gap for SmokeStop™ D600A is 20mm and the headbox edge gap is 0mm. Side guides can be used to create a seal between a smoke barrier and construction works to further reduce smoke leakage, if required, due to air pressure.

barrier construction

Each roller is up to 5m wide with multiple roller construction up to unlimited widths. Maximum size single roller construction is 6 metres wide x 8 metres high.

fire performance

More than 2 hours at 600°C.

smoke performance

Leakage tested to EN12101-1 Annex C

Single Roller Fabric	0.5m ³ /m ² /hr
400mm overlap positive pressure	0.5m ³ /m ² /hr
400mm overlap negative pressure	17.06m ³ /m ² /hr

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controls

Controls are custom made to be fully compatible with both existing alarm systems and the number of barrier units installed, whether single or multiple roller assembly. These controls can also be grouped into a single enclosure allowing for easier installation and servicing. When an alarm signal is detected, the control will automatically trigger all of the connected barrier systems using our total gravity safe system.

test / reset

Test is performed by a simple key switch operator. The system is reset manually by pressing the reset button on the control panel. Automatic reset is available. Automatic reset is available.

operation

A 24v electromagnetic brake holds the fire curtain open. Closing is by gravity at a controlled speed of 0.06 - 0.15m/s. Opening is driven by one or more 24vDC tubular motors mounted within the barrel.

control specifications

power supply

230V AC 50Hz dedicated supply via all pole isolator

batteries

2 x 12V 12A/h lead acid batteries

alarm signal

Normally closed volt-free contacts. Open on activation

test facility

Zone Control Panel (ZCP) located on front of Power Supply Unit (PSU)

display

Power ON, Alarm ACTIVE and Alarm OFF status LED's on ZCP

power supply size

400mm(w) x 500mm(h) x 210mm(d)

motor control unit size

300mm(w) x 200mm(h) x 80mm(d)

benefits

- Small lightweight headboxing
- Allows for uninterrupted ceiling heights.
- No drop down bulkheads or fixed glass smoke baffles
- Creates open spaces and increases yield of workable/chargeable floor space
- Is true Fail-Safe by gravity which means it will work when required
- Ease of service and maintenance





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