neco~fire~gard

Manufacturer, Supplier & Installer

T: +44 2920 668332
E: info@necogroup.eu

Specification For:

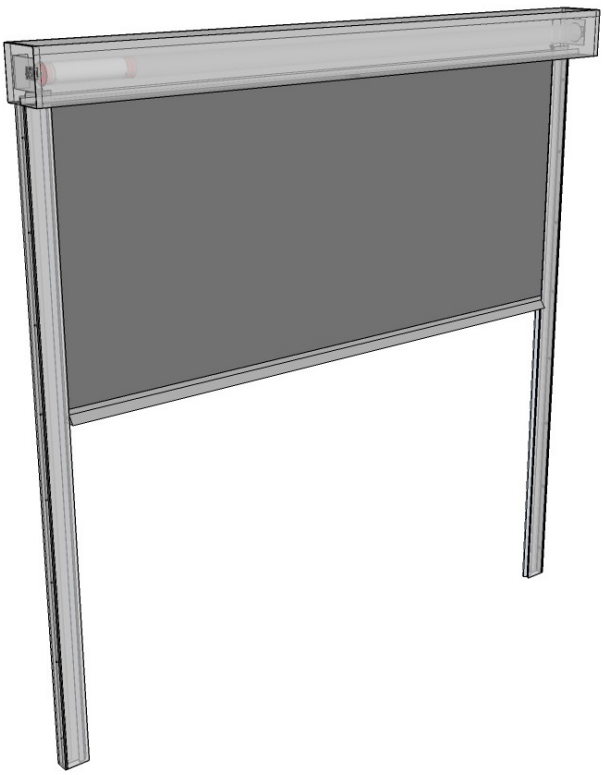
NECO Fire Curtain

Product Description:

Our 4 Hour Rated Fire Curtains are made manufactured using wire re-inforced e-glass fabric. It is housed in a smaller headbox than a fire shutter. All NECO Fire Curtains are automatic and motorised by our patented DC Fire Safety Technology System.

Ideal Uses:

- Domestic Premises
- Hotels
- Shopping Centres
- Airports
- Where a Shutter May Be Obtrusive



Benefits:

- Discreet
- Easy To Install
- Large Sizes Avavilable
- Fast Evacuation
- Made To a Building's Specific Needs
- Contains Fire Up To 4 Hours

Protection Ratings Available:

- 1 Hour Rated
- 2 Hours Rated
- 4 Hours Rated

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Construction:

- All materials shall comply with our test report and to BS476 part 20 and 22 up to 251 minutes.
- All materials shall comply with our test report and BS476 part 31.1
- All materials shall have a Class 1 surface spread of flame rating when tested in accordance with BS476 part 7.
- All materials shall have a Class 0 fire propagation when tested in accordance with BS476 part 6.
- All materials shall comply with BS7346 part 3 specification for smoke curtains.
- The testing from Warringtonfire Research Centre allows us NECO Fire Gard to produce a standard Fire Curtain up to the size of 30 metres wide x 8 metres high. A Fire Curtain can be produced up to 50 metres wide x 10 metres high with a seperate assessment from Warringtonfire Research Centre.

Performance:

1. Resistance to fire/heat: All materials shall comply with our test report and to BS476 part 20 and 22 up to 251 minutes.

2. Reliability of automatic curtains: All automatic fire and smoke curtains have a 12 month parts warranty.

The motor and all associated components have been tested in excess of 2000 thousand cycles.

Each automatic curtain is designed so that it assumes its fire operational position on activation of a fire alarm or localised signal.

The design incorporates a gravity fail-safe system, even if the batteries become depleted or the cables damaged the unit will gravity fall under controlled descent into its fire ready position.

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System Requirements:

The automatic curtain power requirements should be fed from a mantained 240v 5a fused spur within the following distances:

Up to 15 metre distance = 1.0 mm²
Up to 35 metre distance = 1.5 mm²
Up to 50 metre distance = 2.5 mm²

The actuating mechanism shall be operated by a normally open volt free signal from the fire alarm or localised detection system, to ensure that the curtains assume their fire operational position at the earliest opportunity in the event of a fire. Overriding/ test controls are provided as part of the control system.

The NECO 240+ Fabric:

We have developed the NECO 240+ Fabric. This complies fully with the most demanding requirements for specifiers and fire safety authorities, in countries where legislation exists for smoke and fire control systems.

The NECO 240+ Fabric exceeds the performance required for materials used in the manufacture of smoke and fire curtains and blinds, smoke screens, cavity walls and roof void barriers etc.

The NECO 240+ Fabric is a woven glass fibre fabric, reinforced with stainless steel wire and coated on both sides with a specilly formulated micronised aluminium polymer coating, which provides an effective heat reflective surface as well as other properties required for materials used in the manufacture of smoke and fire curtains, when installed in public buildings with open areas, where public safety is paramount both onshore and offshore.

As a coated fabric, **NECO 240+ Fabric** offers advantages over similarly approved materials, in terms of minimal smoke permeability and reduced skin irritation. The material is flexible and easy to piece together and install.

The NECO 240+ Fabric provides speedy evacuation as the lightweight fabric can be lifted by individuals escaping the building.

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Operational Features:

Electronic Limits:
A fire curtain can be commissioned without gaining access to the motor. All limits are set from the control panel.

If you need to return to site to commission your fire curtain, only one engineer is required.

Battery Back-Up:
If the power supply fails, the inbuilt battery back-up system maintains operation of the fire curtain until the power is restored (up to 48 hours).

Audio Visual:
A full audio siren and flashing beacon are supplied. These can be (dis)connected depending on the site requirements. Further sirens or beacons may be connected.

Split Drop Delay:
Once the alarm is activated, the fire curtain will descend to the middle split drop limit and remain in this position for up to 16 minutes. It acts as a smoke curtain and prevents the spread of smoke, allowing people to escape before it descends to the floor.

Delay Before Descent:
Once the fire alarm is activated, the curtain will remain in the up position ensuring the safe evacuation of the building. After a set period of time (up to 16 minutes), it will automatically close.

Deadman and Auto Operation:
The control panel can be placed in either automatic operation up or automatic operation down, or automatic operation up and deadman down.

Auto Return Reset Function:
Once the fire alarm is activated, the fire curtain will descend to the floor. It will remain in this position whilst the alarm is activated. Once the alarm is reset, the fire curtain will automatically return to the open position.

This feature is important where numerous fire curtains are installed. All fire curtains will return to the open position without having to raise each individual fire curtain.

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Operational Features:

Emergency Retract:
If the fire curtain is activated a trapped person can press the emergency switch and raise the fire curtain to escape to the nearest fire exit.

Volt Free Fire Alarm Connection:
The control panel is designed to receive a volt free fire alarm signal. This can open or close.

Double Knock Fire Activation:
The control panel can operate a double knock fire alarm activation. This means that when the fire alarm is activated the fire curtain will descend to the split drop delay limit and act as a smoke curtain only.

The fire curtain will only reach the floor once a second signal is received either from a second fire signal or a stand alone relay based smoke or heat detector.

Building Management System:
The control panel can connect the fire curtains to a building management system.

This allows a person in a control room or designated area to monitor all fire curtains.

For example, if the fire alarm is activated the relevant person can check to see if all fire curtains have descended without having to walk around the building.

Obstacle Detection:
A photocell can be attached to the fire curtain with a flashing beacon and sounder and connect to the control panel. This means that if an object is placed under the fire curtain, the alarm will sound until the object is removed.

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Fire Test Performance:

The British Standards Fire Tests for smoke and fire curtains and blinds, smoke screens etc, requires that when in its operational position, it shall remain in place and intact, when tested for a minimum period of 30 minutes at 620°C.

A Smoke & Fire Curtain/Blind manufactured using **NECO 240+ Fabric** met this requirement and then exceeded it, by remaining **in place** and **intact** for **251 minutes** at tempratures up to and above 1000°C.

NECO 240+ Fabric therefore complies fully with the requirements of BS476: Parts 20 and 22: 1987 tested at the Faverdale Technology Centre.

NECO 240+ Fabric also meets with the requirements of BS476: Parts 6 and 7: Class 0.