Intelligent security and fire protection

SecureFire
Fire Protection

www.securitydirect.uk.com
SecureFire Flame Curtain

Intelligent automatic fire curtain – The flexible solution for a safe exit route.

Invisible when not in use, Flame Curtain is automatically activated in the event of a fire alarm or power failure. This ensures safety where it is needed without having to compromise on the aesthetics or design of a building.

The Flame Curtain, when lowered or deployed divides up large open spaces to slow down the spread of fire, allowing a safe exit. Flame Curtain is strong enough to contain a fire for up to 2 hours whilst still allowing a route of escape should this be required. This is achieved by simply lifting the bottom rail to create a gap large enough to go under.

Overview

✓ Helps stop the spread of fire
✓ 2 hour rating
✓ Invisible when not in use
✓ Auto-operation
✓ Gravity fail safe
✓ Complies with regulations

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Flame Curtain Specifications
- Testing & Standards
  - Tested and approved by Exova Warringtonfire
- BS476: Part 22 1987
- BSEN1634-1:2008
- 2 Hour Fire Rating

Curtain
- Stainless Steel wire reinforced glass fabric intended for applications exposed to high temperatures
- Curtain fabric weight 0.69 kg/m²
- Grey Finish

Bottom rail
- T Section 40 mm High x 55 mm Deep

Guide Rails
100 mm Wide x 60 mm Deep double sections which can be reveal or face fitted. Specify at time of order. Designed to retain the fabric curtain during fire conditions. The guide rails expand towards the shutters box during fire conditions.

Shutterbox
Two piece galvanised steel powder coated white as standard. Other RAL colours available. Only 200 mm wide x 220 mm high. Supplied in sleeved sections to allow for expansion in fire conditions.

Finish
Galvanised steel powder coated white as standard. Other RAL colours available at extra cost.

Motor
24 V DC Tubular Motor. This product is not designed for frequent use and should remain open unless activated. The motor operates under mains supply in normal use. Battery backup is provided for power failure and in the event of complete battery discharge the brake is released and Flame Curtain closes automatically under gravity fail safe.

Controls
- Standard FC Control Panel
  - Alarm input
  - Emergency Override input for emergency escape switch
  - Audio Visual output
  - 24 V Battery backup
- The FC PLUS control panel also includes
  - Split drop curtain to retain smoke & allow emergency escape
  - Safety device inputs

Installation
Face or reveal fit to masonry, concrete or fire protected steel with at least the fire resistance rating of the product being fitted.

Technical Drawings
Full technical drawings available.
SecureFire Flame Shutter

One, two or four hour rating options available.

Flame Shutter is an electrically operated vertical fire shutter, consisting of a steel slatted curtain and galvanised steel box assembly and guide rails. The box, curtain, guide rails and bottom rail can be powder coated as an optional extra.

This product is designed to be a security barrier during normal use and to be closed automatically during a test or an emergency situation. In the event of receiving a fire alarm signal the barrier will perform a powered descent to create a fire resistant barrier. In the event of power failure Flame Shutter will close using the battery backup feature. Flame Shutters design allows for both face or reveal installations.

Size limitations

- Minimum width: 800 mm
- Minimum height: 800 mm
- Maximum width: 7000 mm
- Maximum height: 4600 mm

Sizes can vary according to integrity rating and larger sizes require a hood support bracket. Please check for confirmation. Maximum sizes can vary according to integrity rating.

Approved standards

The SecureFire Flame Shutter has been tested to the Fire Resistance Performance of Shutters standards and achieved BS476: Part 22: 1987 British Standard and BS EN 1634-1: 2008 European Standard. The product was tested and approved by Exova Warringtonfire, report no. 312862

Product performance

This product is uniquely capable of providing specifiers with a choice of Flame Shutter 60, 120, or 240 minutes integrity performance in accordance with the standards mentioned above.

Available in three integrity ratings:

- Flame Shutter 60
- Flame Shutter 120
- Flame Shutter 240
Intelligent Features

Flame Shutter Specifications
- Testing & Standards
  - Tested and approved by Exova Warringtonfire
  - BS476: Part 22 1987
  - BSEN1634-1:2008
- Available in 1, 2 and 4 hour rating

Curtain
- A single skin 75 mm scrolled or 50 mm flat galvanised steel slat
- Weight: 50 mm flat slat 10 kg/m²
  - Weight: 75 mm scrolled slat 10 – 16.5 kg/m² dependent upon the size of the curtain and integrity rating
- The product is available galvanised as standard or powder coated to RAL or BS colour at extra cost

Bottom rail
- T Sectioned steel bottom slat 49 mm high x 74 mm deep

Guide Rails
- 3 mm thick galvanised steels channels 50 mm or 65 mm deep, depending upon shutter width mounted on steel angles for fixing. Available for face or reveal installations. Specify on order.

Shutterbox
- Galvanised steel endplates welded to the top of the guide assembly, in a flag arrangement with a two piece box assembly. Boxes are supplied in sleeved sections to allow for expansion in 250 mm, 300 mm and 350 mm sizes depending upon shutter height.

Axles
- 101.6 mm (1.6 mm), 101.6 mm (3.2 mm) 5", 5 1/2" or 6 5/8" round steel barrels are used depending on the product size.

Finish
- Galvanised as standard or powder coated to RAL or BS colours at extra cost.

Motor
- The fire curtain is powered using a 240 V AC tubular motor which is supplied as standard with a 2.5 m 4 core cable.

Controls
- FS control panel with separate battery backup
- Fire alarm interface relay with separate battery back up

Optional extras:
- Localised sensors such as smoke and heat detectors, a range of audio visual devices and emergency retract switches can be connected to the panels using a 24 V DC supply from the panel.
  - Key switch
  - Manual over ride

Installation
- Face or reveal fit to masonry, concrete or fire protected steel with at least the fire resistance rating of the product being fitted.

Technical Drawings
- Full technical drawings available.
There is a requirement under The Regulatory Reform (Fire Safety) Order 2005 for companies to ensure fire safety equipment is maintained and a record kept.

- **Weekly**: Check all the system for correct operation
- **6 Months**: Inspections and test of the systems by a competent engineer
- **Annually**: Full inspections and test of the systems by a competent engineer, clean self-contained detectors and check or replace batteries
Your SecureFire Checklist

Remember, only SeceuroFire offers all of the following:

✓ A name you can trust
   When buying a SecureFire product you can be reassured by the values behind the name.

✓ A perfect fit
   With every SecureFire product made to measure we can meet your design needs.

✓ Manufactured in the UK
   Using the latest machinery and equipment, all SecureFire products are proudly manufactured and assembled in the UK.

✓ A solution for all fire protection requirements
   A 1, 2 and 4 hour fire shutter range plus a 2 hour fire curtain mean that you have the widest choice of solutions from one manufacturer.

✓ Fully tested
   Conforming to UK and European standards for the property owners peace of mind.

✓ Neat design
   All motors are within the housing which is available in a range of sizes to minimise space requirements.

✓ Local supply and installation
   A national network of trained installers.

Product Testing

Both the Flame Curtain and the Flame Shutter were tested and assessed by Exova Warringtonfire. The product is fitted on the furnace side replicating the most severe condition and the temperature of the furnace is increased to 1000°C at a rate defined by the product standards.

Peace-of-Mind Warranties

All SecureFire products are guaranteed against defect of material or workmanship by Security Direct Products, subject to correct installation, maintenance and operation, for a period of 12 months from the date of purchase.