REFERENCE 17: LBS FIREGUARD FM75 FIRE-RESISTANT ROLLING SHUTTER

Manufacturer
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Product reference:  FIREGUARD FM75

Application
LBS FIREGUARD Fire resisting rolling shutters are designed to provide up to 4 hours protection and tested & certified by the LPCB (Loss Prevention Certification Board Certificate 247b to LPS 1056: Issue 8) for up to 4 hours fire resistance and openings up to 10.0m wide and 7.0m high to a maximum area of 49 m² - Shutters beyond this range are also available subject to individual BRE Global Assessment.

Performance
Fire resistance: up to 4 hour fire resistance BS476: Parts 20 & 22 (1987)
BS EN 12604 (2000) Mechanical aspects – Requirements
BS EN 12453 (2001) Safety in use of power operated doors – Requirements
BS EN 12206-1 (2004) Application of architectural powder coating
Manufacturer’s Declaration of Conformity in accordance with the Construction Products Directive 89/106/EEC
Manufacturer’s Declaration of Incorporation in accordance with the Machinery Directive 98/37/EC
Manufacturer’s Declaration of Conformity in accordance to LPS 1056: Issue 5 (Requirements and tests for fire doors, lift landing doors and shutters.)

Arrangement
Vertical roller curtain for face / reveal fixing

Barrel
Suitable mild steel tube as necessary finished with one coat rust inhibitive primer

End Plates and Barrel support brackets as required
Mild steel plates finished with one coat rust inhibitive primer

Curtain
75mm traditionally curved galvanised steel interlocking laths with steel endlocks and pre-formed bottom rail

Guides
Vertical guide channels with track retaining system that prevents the curtain from dislodging from the guide under heat or ventilation pressure

Coil Casing
3-sided galvanised steel coil casing

Finish
Standard finish is self-finish galvanised steel curtain with primed guides with mounting angles as required
These can be supplied with Polyester powder coat stock RAL or BS colour

Operation
Manual self-coiling push-up available for smaller doorway openings where the shutter is normally open, only closing in the event of fire or under test conditions
Shutter to be activated by a fusible link (local heat source in excess of 68°C) mounted to the underside of the hood) releasing the drop-weight mechanism enabling the shutter to close.

Electrically operated shutter operated via chain-driven Firedrive motor closing under controlled descent and having an endless hand chain so that the shutter can be opened in the event of power failure.

Fire shutter may be activated by a fusible link (local heat source in excess of 68°C) releasing the motor brake allowing the shutter to close. A solenoid can be incorporated (as an option) which can be linked into the fire alarm (by others) using a 24 volt DC supply (0.5 amp) supply. On receipt of an incoming fire alarm signal the door will close under controlled descent (if a volt-free signal is supplied via the fire alarm an audio visual warning panel will be required).

An audio and visual warning can be supplied where shutter is in a public area or escape route. This is activated when the panel receives a fire alarm signal (volt free). The unit also includes a facility for a delayed closing of the shutter and partial closing.

On activation from the fire alarm, the unit starts to flash and omit an audible warning with the shutter closing after a pre-determined delay of 10 to 240 seconds A repeated visual unit is available to be positioned on the opposite side of opening for those with hearing difficulties

Shutters may be linked to escalator control systems and other options include local heat detectors, Speech warnings systems and Battery back-up
SITE INSTALLATION
LPS 1056: Issue 5 (Requirements and tests for fire doors, lift landing doors and shutters.)
Test closing and reset leaving in working order
Provide Certificate of Conformity

WARRANTY
The manufacturer will provide a 12 month warranty excluding damage caused by impact, vandalism or misuse
(Exclusions may apply if any element is sublet to an unauthorised party)

MAINTENANCE
It is a legal requirement to regularly maintain all fire rated equipment. Under the Regulatory Reform (Fire Safety) BS9999:2008 Code of practice for fire safety in the design, construction and use of buildings
Work to certified in accordance with Loss Prevention Certification Board (LPCB) in respect to LPS 1197: Issue 2 (Requirements for LPCB certification of firms undertaking the maintenance and repair of doors, shutters, smoke /fire barriers) providing confirmation that the product has passed inspection and compliant with current statutory requirements
The frequency of this maintenance is determined by the use and occupancy of the building.