

2 - 4hr Fire Roller Shutters (LPCB)



Technical Specifications

Roller Curtain

The shutter curtain is constructed from cold rolled galvanised steel laths, (76 mm), with a minimum thickness of 20swg. Each lath is retained by pressed steel or malleable iron endlocks fixed and secured by steel rivets. Cast iron wind locks are fitted to retain the shutter curtain within the guide channels in a fire situation.

Bottom Rail

Formed from mild steel flat bar & angle depending on door width, bolted back to back through a centrally located galvanised steel flat quirk.

Side Angles and Guides

A purpose cold rolled mild steel section of depths ranging from 65 mm to 100 mm dependent upon the application. Mild steel angles of suitable size and thickness are supplied to support the side guides and to form a secure fixing to the structure.

Operation

Self-coiling shutters are manually operated i.e. push-up/pull-down. The roller barrel is manufactured from 102mm 9swg tube and contains suitable sized springs to counter-balance the shutter. In a fire situation, a solder fusible link melts at 72°C, releasing the shutter via a drop-bar and a ratchet and pawl mechanism.

Hand chain operated shutters are fitted with a gearbox unit complete with low level hand chain to open the shutter and a brake release cord, to close the shutter. The roller barrel is manufactured from mild steel tube of suitable outside diameter and wall thickness to suit the shutter application, and is un-sprung. The gearbox contains a controlled descent mechanism. A fusible link backup facility is provided as standard. A solenoid release mechanism is available which provides a manual test and reset facility, and can be connected to a fire alarm system (by others).

Electrically operated shutters are fitted with a motor/gearbox unit complete with a push button station with "UP", "DOWN" and "STOP" buttons. The roller barrel is manufactured from mild steel tube of suitable outside diameter and wall thickness to suit the shutter application, and is un-sprung. The gearbox contains a controlled descent mechanism and a brake release cord to close the shutter in the event of a power failure. A solenoid release mechanism is available which provides a manual test and automatic reset facility, and can be connected to a fire alarm system. (by others – Solenoid release mechanism requires a 24 volt signal at 1 amp and up to 3 amp start up current upon activation of the fire alarm system).

Audio-Visual Panel

A popular extra for fire shutters is an audio-visual panel which provides a warning that the shutter is about to close automatically via the fire alarm system. The panels require a 240 volt supply together with an appropriate signal from the fire alarm system (by others).

Finish

Side guides, supporting angles and door curtain are galvanised. Non-galvanised sections are primer painted. Powder coated finish is optional and can be provided at extra cost.

Roller Bracket Plates

Of suitable design ranging from 6mm-10mm thickness. Fitted with suitable cleats for fixing to the structure.

Coil Casings

Coil casings are supplied as standard and are manufactured from 20 swg galvanised sheet steel.

Test Reports

Loss Prevention Certification Board Reference No. 165a/01 (4 hour) and No. 165a/02 (2 hour).
Test Report No. TE 83228 – BS 476 Part 22 1987.
BRE Assessment No. CC269753.

Size/Weight

Maximum certified size of shutters is 7 m x 7 m (49 m²) and shutters weigh approximately 40 kg per m²

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