

FIRE RESISTING ROLLING SHUTTER DOORS



Introduction

The Servery 60 & 120 fire shutters are manufactured and produced in accordance with the parameters and technical respects indicated within the specification, which was submitted to the Warrington Fire Research Establishment. The shutters are constructed to a design that has been tested in accordance with clause 8 of BS476 part 22:1987 (Test Number WARRES 165326).

Effectively the shutters are generally intended for protection of a range of openings in masonry / concrete, steel, steel stud or timber partitions. The maximum clear openings are for 4000mm wide x 2500mm high, or in a partition system for 1 hour up to an area of 10sq metres, principally this incorporates the BRE test FG 7941N which relates to a tested fire shutter in a stud partition, the opening must be fire rated to suit and be capable of carrying the weight of the shutter. Consideration must be given to the additional weight of the shutters over 3.5m w x 3.0 h, the configuration / strength of the partition must be increased accordingly. Where the shutters are used to protect a kitchen servery, it is assumed that the counter is composed of non-combustible material and the counter is of sufficient width to ensure that the bottom rail movement under heating cannot result in the rail overhanging the counter.

Curtain

Manufactured from 50mm flat profile or 75mm curved profile galvanised steel interlocking slats (gauge varies according to opening size) fitted with pressed steel end shoes to alternate slats along both ends to prevent lateral movement. The bottom rail is manufactured from purpose made 2mm thick preformed galvanised steel 'T' section.

Barrel

Manufactured from mild steel tube, tube size varies based on the overall width and height of the curtain and the gauge of laths. The tube wall thickness varies dependant on the width of the shutter, the barrels are mounted on bright steel shafts varying from 18mm to 30mm dependant on the overall size of the shutter, the shafts have mild steel bearing blocks at non geared end and tubular motor at the geared end.

Guides/End Plates

50mm x 32mm x 3mm purpose made galvanised steel channel bolted to 75mm x 50mm x 3mm continuous mild steel angle. The End Plates are

fabricated from 305mm x 305mm x 3mm mild steel plate with chamfered corner to meet BSEN 13241 and fitted with steel brackets to accept and support the Barrel assembly.

Coil Casing

The coil casing is provided as standard to enclose the coil of the shutter curtain and help to provide a fire seal at the head and is constructed from 0.9mm thick galvanised steel sheet manufactured to BS EN 10142 and BS EN 10143 with a zinc coating. A substantial visible steel support bracket may be essential (dependant on overall width of shutter).

Operation

Electrically Operated via a purpose made 240v single phase tubular electric motor unit. Detachable hand crank manual override for emergency use is standard.

Release Mechanisms

Fire Relay & Key switch (requires maintained supply - a battery back up is required if a maintained supply is not available). A Fusible-Link Switch will be required if a fire alarm connection is not available.

Modes of Actuation

FIRE RELAY

Principally the commonly used means of release. Linked to the fire alarm, the shutter will of course be powered down with a fully controlled descent. The unit will require a maintained supply; if this is not possible a separate battery back up unit can be provided. 200mm long x 130mm wide x 70mm deep. A volt free signal is required from the fire alarm.

FUSIBLE-LINK SWITCH

On activation the link, which is a soldered link, separates and releases at 64 degrees centigrade, in effect the temperature release of the link creates a signal to the relay which in turn powers the door down. Again if there is no facility for a maintained supply the battery back up unit must be used.

Optional Safety Devices at additional cost

FCP03 Audio Visual Control Panel This unit comprises of an audio visual warning and timer delay and is linked to a 24vDC fire alarm system, break glass units or smoke/heat detectors (by others). Upon receipt of a signal from one of these items, a siren will sound and the visual warning 'FIRE SHUTTER CLOSING' display will flash. After a preset delay time, the panel will send a signal to the motor unit and the shutter will close. A FCP Slave panel can also be provided



for the other side of the opening at an additional cost. The FCP03 also incorporates self contained batteries to maintain the panel should the power fail.

Finishes

Standard finish is Galvanised Curtain & Bottom Rail. All non galvanised parts are spray painted with Zinc based primer ready for site painting by others if required. At an additional cost, Polyester Powder Coat paint finish applied to the shutter Curtain, Bottom Rail, Guides and Coil Casing in virtually any standard/stock BS4800 or RAL range colour (subject to availability).



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