Electrically operated Fire Resisting Roller Shutter – single phase
Tube motor operation

Roller Curtain
75mm deep galvanised cold rolled sections are interlocked together to form the door curtain. The laths are concave in shape and are held together by pressed steel end locks secured by steel rivets.
The gauge of the lath is determined by the size of the door and the integrity required.

Bottom Rail Section
The bottom rail is normally a galvanised inverted 2.0 mm T section.

Side Guides and fixing support angles
Guide sections are manufactured from 3mm purpose rolled section, with different depths dependant upon the width of the shutter, and are secured to mild steel angles, pre drilled ready for fixing to the structure.

Roller Shutter Barrel
The mild steel tube is fitted with a drive sprocket on the motor side, and a plain shaft to allow fitment of a flange bearing on the non drive end of the door.

Normal Operation
The Shutter can be used to close off specific areas, and secure products away from the public, typically in kitchen servery areas.
A surface wall mounted key operated switch is supplied as standard, mounted to within 500mm of the door opening on the motor side. Flush mounted switches are available at additional cost.

Operation in fire condition
The door will commence closing on receipt of a fire alarm signal generated by the building management system; the operation will be controlled through the Audio Visual warning panel as detailed below –

Audio Visual Warning Closure
An audio & visual warning panel is used to provide a facility for delayed closing, together with an audible indication that the door is to commence its closing cycle.
The fire alarm signal is connected directly into this unit. On activation from the fire alarm the unit starts to flash & sound with the shutter closing after a pre-determined delay (10 - 240 seconds).
A battery back up is also provided as standard, to ensure full protection of the system in the event of a power failure

Electrical Wiring
A single phase 13 amp power supply is required terminated to a fused spur outlet; in addition, a fire rated cable with a volt free signal in alarm condition terminated to an adaptable is required, all prior to the door installation.
All wiring is carried out by our electrical engineers, to ensure compliance with current regulations.

Mounting of fused spur and termination of fire alarm cable.
To be provided by client unless agreed otherwise, installed to within 500mm from the motor and control panel position at high level.

Standard Finish
Powder coat finish is available in a wide range of colours and is applied to the complete door on both sides. Powder coat is a more durable and hard wearing finish and is ideally suited to roller shutters.

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