



# GUARDIAN

DOOR SOLUTIONS FOR ALL REQUIREMENTS

ROLLER SHUTTERS - SECTIONAL OVERHEAD DOORS - INSULATED DOORS - FOLDING DOORS  
STEEL DOORS - FIRE RATED DOORS - SECURITY DOORS - SLIDING GATES - HIGH SPEED DOORS

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## Fire Shutters & Curtains

### Fire Products Structural Recommendation

The structure supporting the rolling door-set must be a fire resistant separating element (to B.S. 476: part 20,21,22: 1987), having a fire resistance greater or equal to that required of the door-set itself. It must be capable of supporting the door-set for the required fire resistance period without compromising the fire performance of the door-set. In addition, consideration must be given to the loads imposed by the various door-set components, i.e. endplates and barrel support brackets. It is recommended, that a critical temperature of 400 °C and steel sections with an  $H_p/A$  value below  $230m^{-1}$  are used for designing fire resistant steel supporting sections.

Where rolling shutters are fixed to masonry supporting elements, the masonry elements must be capable of providing a fire resistance in terms of the insulation, integrity and load bearing capacity criteria of B.S. 476: Part 21: 1987 equal to or greater than the fire resistance rating (integrity) of the rolling shutter assembly.

Shutters fitted to a timber stud partition / steel framed partitions are acceptable for up to 60 minutes fire resistance, to a tested opening size of 2750mm wide X 3250 high.

The opening must be capable of carrying the weight of the shutter and be equal or greater than the fire resistance of the roller shutter assembly.

### Safety Bearings (Fire Shutters) – Risk Assessment

Effectively if the sole intended use of the shutter is as a “fire shutter” i.e. the shutter will be in the closed position, or, it will remain in the open position and close only under fire conditions then a safety bearing would not be required.

If however the shutter is also to be used in a conventional manner, then there must be a consideration that under safe working practises and Health & Safety in the work place “all upward moving doors must be provided with an effective means of protecting them from falling back and causing injury”. (In accordance with the DSMA code of practice for fire shutters).

We can provide re-settable safety bearings that have been tested to EN12604, EN 12605 and comply with the anti fall back regulation.

## Fire Alarm Requirements

### TM120 Tube motor fire shutters

the relay provided by Guardian requires a normally open volt free signal going closed on fire.

### FM240 Fire shutters

the solenoid unit requires a 24volt D.C. signal (0.5 amps on activation)

### Audio Visual unit

requires a normally open volt free signal going closed on fire.

If you have any queries, please do not hesitate to contact our technical department.



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