

PRODUCT SPECIFICATIONS – MIRAGE DOORS S100 FIRE RESISTANT STEEL ROLLER SHUTTERS – STANDARD TO AS 1905 – PART 2 1989

CRITICAL NOTES FOR ARCHITECTS & CERTIFIERS:

1. Fire resistant shutters must be installed to concrete, 190mm thick core – filled masonry or solid brick. Steel or stud walls are NOT a suitable fixing surface and cannot be certified;
2. Mirage fire resistant roller shutters have a maximum rating of 0 / 240 / 0 and are not an insulated product;
3. It is not possible for a fire resistant roller shutter to have a rating of 0 / 240 / 30 unless sprinklers or drenchers are added to the fire shutter. This addition is by a 3rd party and is not part of the product offering of Mirage Doors (Aust.) Pty Ltd.
4. Although fire resistant roller shutters can be manually operated, they are not designed or suited for installation into rooms where there is no other form of access into the room. Chain or electric operation is advisable;
5. Fire shutters cannot be mounted to side walls – adequate headroom and sideroom must be provided.

RECOMMENDED SPECIFICATIONS: S100 Standard Fire Resistant Steel Roller Shutters as manufactured by Mirage Doors (Aust.) Pty. Ltd. These shutters can be rated for up to 4 hours (e.g. - / 240 / 0 is a four hour rating).

SIZE LIMITATIONS: Shutters manufactured for compliance to the above standard are limited in size to 8000mm wide and 5000mm high, to a maximum of 36.0m² overall. Certification of the fire shutter only is the responsibility of Mirage Doors (Aust.) Pty. Ltd.

SLATS: Slats are 100mm high and 1.0mm gauge. End clips are formed from malleable iron and are fitted every alternate slat.

DRUM: The drum shall be manufactured from steel tube and attached to end caps, in accordance with relevant assessment reports. Helical coil oil tempered springs will be fitted to an axle inside the drum tube.

GUIDES: 100mm x 37mm channel, fixed to a masonry surface.

WINDLOAD SPECIFICATIONS: Fire shutters do not comply with windload specifications.

BRACKETS: Brackets are fabricated from minimum 10mm mild steel and prime painted. A hood is provided for enclosure of the drum & curtain bundle.

BOTTOM RAIL: 50mm x 50mm dual duragal angle. Locking is not permitted on fire resistant roller shutters.

OPERATION:

- Chain operation (up to 20.0m²);
- Electric operation is by a Grifco 1 h.p. 3 phase motor / gearbox c/- push button operation via a reversing contactor. This includes emergency chain operation in the event of power failure. Key switches can be added if required.

The operating speed upon actuation of the fire shutter will be at 0.3 metres / second to ensure compliance with AS1905 Part 2 - 2005. The shutter shall be held open via a fusible link. Where interfacing with a smoke detector or fire alarm system is required, the shutter shall also have hold – open magnets. Provision of the interfacing work from the FIP to the hold open magnets is by others.

FINISH OPTIONS:

- Galvabond steel (standard);
- Dulux Duralloy or Interpon D1000 powdercoat finishes are suitable for S100 fire resistant roller shutters.

SPECIAL NOTES

- The power supply required for the motor is either:
 - 3 phase 415v with neutral (10 amp), located within one metre of the motor. This work is by others;
 - Single phase hard wired (10 amp), located within one metre of the motor. This work is by others;
- Product warranty – 12 months.

TECHNICAL DETAILS: Refer to Technical Data Sheets 10A, 10B & 10C.