

L20 DOORS/ SHUTTERS/ HATCHES

610 ROLLER SHUTTER DOORS

REFERENCE: GUARDIAN FR-INS 240 FIRE SHUTTER

DIMENSIONS

Maximum recommended dimensions 7000mm x 7000mm

Shutter weight: 45 kg/m² of door opening.

Size Parameters: The shutter test relates to 4HR fire resistance. The shutters are generally intended for protection of a range of openings in masonry / concrete, steel, steel. The maximum clear openings are for 7000mm wide x 7000mm high, the opening must be fire rated to suit and be capable of carrying the weight of the shutter.

Performance

Fire performance: 4-hour fire resistance BS 476: Part 22 (1987).

Irradiance: 2.7kW/m²

The INS 240 has an insulated curtain which is able to keep its unexposed face surface radiation below 20kW/m² when applied to the time temperature curve of BS 476 Part 20: 1987

Sound Reduction: The INS240 roller shutter has a weighted sound reduction value of 18dB

BS EN 12604 (2000) Mechanical aspects - Requirements.

BS EN 12453 (2001) Safety in use of power operated doors - Requirements.

Release Mechanisms: Fire relay and key switch (requires maintained supply, battery back up needed if no maintained supply. Fire relay, key switch and fusible link if no fire alarm.

Fire Relay: Principally the commonly used means of release, the characteristics mimic the use of the solenoid on the conventional fire shutter, again linked to the fire alarm, the shutter rather than closing manually through the gearbox will of course be powered down. A volt free signal is required from the fire alarm.

Fusible Link Release: 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.

Audio Visual Warning (FDI): Principally this unit is designed to delay the closing of the fire shutter: generally the fire alarm is linked to the audio visual unit and from the audio visual unit straight into the key switch. There is no need for a separate relay: there is already a relay in the FDI. On activation from the fire alarm the unit starts to "flash & sound", this unit contains a programmable timer which effectively delays the signal to the relay in the panel to close the door. 230mm wide x 240mm long x 120mm deep.

Arrangement Vertical roller shutter for face/reveal fixing.

Barrel Mild steel tube finished with one coat rust inhibitive primer.

End Plates 6mm mild steel plates finished with one coat rust inhibitive primer.

Curtain Manufactured from pre-galvanised material, designed to provide a hollow section panel with fibre infill. Each section is 100mm profile with twin ribbed face for rigidity. The curtain, when assembled is held in position with purposely designed end fittings, which act as a curtain alignment system. The bottom panel of the shutter is terminated with a galvanised steel plate with horizontal and vertical slots

Guides Formed from pre-galvanised material having a minimum thickness of 2.5mm. The door guide is designed to allow reduced working face and tapered inner faces to provide automatic interlock/retaining feature. Slotted guides and punched bottom hole to allow for expansion requirements. Nylon washers will be required for fixing detail.

Coil Casing BS EN 12453 0.9mm galvanised sheet steel coil casing as standard.

Finish Standard finish is galvanised steel curtain and guides with non-galvanised components lacquered. Door curtain, guides and coil casing can be supplied BS EN 12206-1 polyester powder coated (PPC) to our standard range of BS and RAL colours. Normal powder coverage of 40 microns. Non-standard colours are available on request - this may increase lead times.

Operation

Electric Operation (optional extra) A totally enclosed reduction geared motor to suit the size of the shutter. Standard voltage: 415V, 3 phase, 50 Hz. 240V single phase is also available. The motor is equipped with an electromagnetic brake and limit switches. The motor position can be handed to suit the site conditions. An emergency hand chain is provided for use in the event of a power failure.

Accessories

Control Accessories Controlled through the Guardian (FDI) Control Panel linked to the fire alarm system, allowing the shutter to open/close through an auxiliary signal, with the option of an essential supply or battery backup package.

Group Command

Colour Range

Any BS or RAL reference

Manufacturer

GUARDIAN INDUSTRIAL DOORS 45 Progress Road Leigh On Sea Essex, SS9 5PR

Tel: 01702 512424. Fax: 01702 260117.

Email: mail@guardiandoors.com Web: www.guardiandoors.com

Professional Installation



FIRAS is a certification scheme for companies installing fire protection products and systems. No matter how good a product is, poorly installed its fire protection performance can be severely reduced. We are certified installers of fire doors and shutters. Proper installation of fire shutter assemblies and door sets is fundamental to their overall performance. [Firas](http://www.firas.co.uk)