GILGEN DOOR SYSTEMS

NBS Specification

Gilgen Firetex 240 2/4 hour– Fire Resistant Steel Shutter

A power operated single-skinned fire resistant automatic steel shutter consisting of concave, solid profiles. Offers good security and fire resistance with an integral smoke check and curtain suspension system. On large doors, wind endlocks are fitted to prevent excessive deflection and curtain retention.

Industrial heavy duty steel fire resistant vertical rolling shutter doors are designed for industrial, commercial and retail applications and are suitable for internal compartmentation functions.

The product is specifically designed for low cycle usage and is generally intended to be normally left in the open position for automatic activation in the event of a fire alarm signal, or closed on a daily basis for loss prevention/ security purposes. It is tested and assessed to provide maximum 4 hour resistance in accordance with BS 476-22.

Standard details for Gilgen Firetex 240 – Fire Resistant Steel Shutter:

- Manufacturer: Gilgen Door Systems Ltd
- Product Reference: Firetex 240
- Arrangement: Face fixed
- Finish/Colour: Manufacturer's standard
  Polyester powder coat finish to BS4800
  Standard RAL colour range
- Frame/Guides: 2.6 > 3mm thick galvanised steel side guides, complete with articulated windlock
  6 > 10mm thick mild steel BZP steel end plate anchor brackets
- Control: Manufacturers standard
  Low level sprung loaded key switch
- Fire Activation: Manufacturer's standard
  Electro mechanical solenoid units with fully automatic reset
  Firegard alarm interface panel
  Firegard E: High level control panel
  Firegard E: Low level control panel
  Local heat detection
- Safety Options: Standard
  In addition to standard – Time delay closing with fire interface panel
  In addition to standard – Time delay closing with fireguard E control system
  In addition to standard – Time delay closing and two stage closing with Firegard E control system
- Accessories: Not required
  Removeable 3 sided motor cover
  3 sided hood with chamfered corners

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Guidance

As standard

Components

Manufactured from 75mm deep, concave galvanised steel scroll lath curtain, galvanised steel bottom rail, one piece side guides, steel endplates, barrel assembly complete with curtain suspension and smoke control system at the head of the opening.

Smoke check system

A 'patented' curtain suspension/ smoke check system is fixed at the head of opening. The system is designed to both support the main curtain assembly in the closed position, providing full fire integrity, which also negates the requirement for a full head casing and also effect a full width mechanical smoke check facility which significantly reduces the opportunity for smoke passage through the head of the shutter.

Fire performance

To DIN 4102. Door section element materials are Class A2 (non-flammable) and have been tested and assessed to provide maximum 4 hour resistance in accordance with BS 476-22.

Weight (door assembly)

30kg/m^2.

Environmental ingress protection level (motor and controls)

No performance determined - use in dry, dust free environments only.

Motor drive duty rating

Class S3 – 30 %.

Ironmongery

It is not normal practice to supply secondary locking devices on life safety equipment.

Options

Size (maximum w x l)

7000 x 7000mm. Larger sizes can be supplied on application, normally to a maximum area of 49 m^2, but even greater area's can be supplied for extended applications which can be agreed with full project specific interface designs and fire assessment documentation.

Operation

Electrically operated by means of a 3 phase - 415 volt motor unit c/w an integral manual controlled descent system (CDO) for use in the event of manual operation and automatic fire activation. The unit is mounted external to the drive barrel and head hood casing (where supplied).

Mains power supply required 3 phase - neutral & earth 220/415V ac 10 amp terminating in a suitable isolator to suit the environment. This should be positioned on the motor side of the door and within 1 m of the opening and at high level adjacent to the motor drive unit, unless otherwise agreed.

Control

Pre-wired low level push button station with open, close and emergency stop functions.
Fire Activation Systems:
Auto reset solenoid unit with manual test & reset cables and secondary gravity fail safe fusible link.

Safety Options
Impulse or remote fire activation; additional photo cell safety beam with Firegard E control system
Audible/ visual/ voice warning devices.

Finish
The main exposed metal work structure and optional casings are mainly a galvanised self finish as standard, but optional polyester powder coat finish can be supplied to the whole or part of the door assemblies and optional head casings

Activation
A comprehensive range of fire activation systems with auxiliary audible/ visual and safety devices are available to accommodate a range of fire strategies, including but not limited to local heat detection, electro mechanical solenoid units for linking to the main building fire alarm with either manual reset and test cables or fully automatic electrical reset function, optional Firegard interface panels with fault monitoring, LED status lights, key switch fire test facilities, automatic power detection for either power driven or manual controlled descent closure with options for delayed activation with two stage closing sequence.

Safety Options
Standard: Impulse/ dead man operation with gravity fail safe closing on mains failure.

Casings
Note the Gilgen Firetex product does not require a hood casing or motor cover to comply with the required fire performance, but these are available for aesthetic purposes, if required.

- Removable 3 sided motor cover (to cover the exposed part of the drive motor, outside of the 3 sided hood profile).

Organisation

- Fire Insurance Committee.
- FIRTO Tested Smoke Check.
- Institute of Fire Prevention Officers.
- Lloyds Insurance.
- London Scientific Services.
- Loss Prevention And Certification Board (LPCB).
- Warrington Fire Research Centre.