



**SECURITYDIRECT**  
ROLLER SHUTTERS • INDUSTRIAL DOORS • STEEL DOORS • SECURITY GRILLES

# NBS Specification

## Compact Fire Shutters – Solid Structures

# Table of Contents

- 1. PRODUCT SUMMARY ..... 2**
- 2. PRODUCT DESCRIPTION ..... 2**
- 3. TECHNICAL CHARACTERISTICS..... 2**
  - 3.1. Curtain Slats..... 2
  - 3.2. Shutter Box ..... 2
  - 3.3. Bottom Rail ..... 2
  - 3.4. Guide Channels ..... 3
  - 3.5. Operation ..... 3
- 4. PERFORMANCE ..... 3**
- 5. PRODUCT OPTIONS ..... 3**
- 6. SUBSTRATE RECOMMENDATIONS ..... 4**
  - 6.1 Masonry:..... 4
  - 6.1 Structural Steel:..... 4
- 7 INSTALLATION ..... 4**
- 8 WARRANTY ..... 4**

## 1. PRODUCT SUMMARY

- **Product Name:** Compact Fire Shutter
- **Manufacturer:** Security Direct
- **Website:** [www.securitydirectuk.com](http://www.securitydirectuk.com)
- **Applications:** Kitchen serveries, reception counters, stores, smaller openings requiring fire resistance

## 2. PRODUCT DESCRIPTION

The Compact Fire Shutter is designed for smaller openings and is ideal for applications such as kitchen serveries and reception counters. It features a compact design with a smaller shutter box due to the use of a single-phase tube motor located within the barrel. Tested and certified to BS EN 16034:2014 and CE marked to BS EN 13241-1:2003, the shutter offers 30, 60, 120, and 240-minute fire ratings.

## 3. TECHNICAL CHARACTERISTICS

### 3.1. Curtain Slats

---

- Single skin, 76 mm (3") curved steel slat.
- Wall thickness options: 0.7 mm, 0.9 mm, or 1.2 mm, depending on fire rating and size of the opening.
- Maximum dimensions: Width: 6000 mm (depending on height), Height: 4800 mm (depending on width).
- Standard finish: Galvanised; optional powder coating in BS or RAL colours.

### 3.2. Shutter Box

---

- Material: Galvanised steel casing and end plates.
- Plate sizes vary based on guide height; refer to installation guides for precise measurements.
- Finish: Galvanised as standard, powder coating available at additional cost.

### 3.3. Bottom Rail

---

- Standard: Galvanised steel 'T' shaped bottom rail.

### 3.4. Guide Channels

---

- Galvanised steel 'U' channel guides.
- Sizes: 65 mm, 75 mm, or 100 mm, depending on application and size.
- Galvanised finish as standard.

### 3.5. Operation

---

- **Motor:** Single-phase tube motor integrated within the barrel for a neat, compact design.
- **Control Options:**
  - Standard: Fire Alarm Relay, Battery Backup and Manual Override.
  - Optional: Heat Detectors, Audio-visual panels, staged descent and emergency release switches.
- **Safety:** Anti-drop brake feature when installed over a doorway or a means of escape.
- **Fire Rating:** Available in 30, 60, 120, and 240-minute configurations.

## 4. PERFORMANCE

- **Fire Resistance:** Tested to BS EN 16034:2014, CE marked to BS EN 13241-1:2003.
- **Finish Options:** Standard galvanised finish, with optional powder coating for custom colour schemes.
- **Lead Time:** Approximately 10-15 working days, subject to change.

## 5. PRODUCT OPTIONS

- **Finish:** Galvanised as standard; optional powder coating in BS or RAL colours.
- **Fire Rating:** Configurable for 30, 60, 120, or 240-minute protection.
- **Control Systems:** Basic Fire Alarm Relay or fully automated control systems with various safety features.

## 6. SUBSTRATE RECOMMENDATIONS

The Compact Fire Shutter is certified for installation into masonry or structural steel substrates only. Specific substrate requirements are as follows:

### 6.1 Masonry:

---

- Density: Minimum 1600 kg/m<sup>2</sup>, thickness of 102.5 mm.
- Fixings: M6 x 70 mm sleeve anchors (Fisher FSA 8 mm), steel and nylon washers.
- Must be fire-rated equal to or greater than the fire rating of the shutter.

### 6.1 Structural Steel:

---

- Structural Steel section factor, A/V must be less than 230m<sup>-1</sup>. Section factor must be calculated assuming section is exposed on all four sides. The section factor shall be calculated as described in EN 13381-4 and EN 13381-8. This rule applies to both vertical and horizontal steel sections of the support frame.
- Fire protection system must have been shown by test to EN 13381 to maintain the steel temperature 400°C or less to retain strength and minimise the effects of expansion in the steel section.

## 7 INSTALLATION

- **Compliance:** Installation must adhere to BS EN 13241-1:2014+A1:2018 and BS EN 16034:2014, as well as local building codes.
- **Expansion Allowance:** Ensure vertical expansion of the shutter box is accounted for during installation. A 50 mm upstand is necessary for face-fixing applications.
- **Operation Checks:** Regular weekly checks are recommended for battery backup, alarm system integration, and overall operation.

## 8 WARRANTY

- Standard 1-year manufacturer's warranty on the motor and control systems.



Beverley, HU17 0LF



[info@securitydirectuk.com](mailto:info@securitydirectuk.com)



[www.securitydirectuk.com](http://www.securitydirectuk.com)



**SECURITYDIRECT**  
ROLLER SHUTTERS • INDUSTRIAL DOORS • STEEL DOORS • SECURITY GRILLES