

# INSULATED AND FIRE-RATED • ROLLING SHUTTERS

## Features:

Available in 1hr/2hr/4hr – ratings, the shutter is electrically operated. The shutter is incorporated with a standard fusible link device which will close the shutter in the event of a fire. The motor operator is equipped with a controlled-descent governor mechanism to ensure automatic regulation of the rate of descent of the door to avoid injury to people or damage to property.

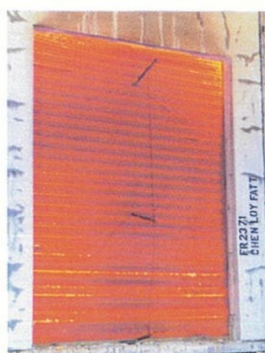
The shutter can be connected to the fire-alarm panel. Upon activation by the panel via a 24V signal, the shutter shall close at a controlled speed. In the event where only a contact free signal (OV) is provided, an optional interface device is required to provide the 24V signal. We are certified to manufacture fire-rated shutters of up to a maximum dimension of 10,000mm width and 7,000mm height in a single panel. Beyond this span, a separate assessment is required.

## Applications:

Industrial Buildings & Commercial Kitchens & Warehouses or any openings that require up to 4 hours fire rated steel shutter



Installation at Airport Cargo Complex



Our fire-rated steel shutters undergoing a vigorous fire test of up to 4 hours.

Chen Loy Fatt Fire Shutters conform to BS 476 : 1987 "Fire Tests On Building Materials and Structures, Part 22." and with full approval from the fire safety authority of Singapore



## Certificate of Conformity

PSB PRODUCT LISTING SCHEME

Class of Listing: 1B  
This Certificate is issued to  
Chen Loy Fatt Metal Works Pte Ltd  
138 Geylang Lane  
Singapore 349582

Product: Fire Rated Shutter  
Brand: -  
Model: CLF-401, CLF-402 & CLF-403  
Country of Origin: -  
Product Details: Integrity > 240 mins

which has complied with the requirements of the scheme and based on the following:

Standard(s): British Standard 476 Part 22 : 1987  
Test Report(s): BRANZ No. FR2410  
BRANZ Opinion No. 98/1280 & 98/1192

Lee Swan Hong  
Chief Executive  
Singapore Productivity and Standards Board

Certificate No: 020992  
Date of Original Issue: 06/11/1998  
Date of Last Revision: 01/12/2000  
Date of Expiry: 30/11/2005

## Specifications:

- **Curtain**  
+/- 1.2mm (minimum) thick roll-formed steel slat of 76/100mm pitch
- **Curtain Bottom Bar**  
38mm wide x 8mm thick steel flats
- **Motor**  
c/w Proprietary brake release system and manual override endless hand-chain
- **Finish**  
Shutters can be in E.G., colourbond, powder-coated
- **Fusible link**  
Set in motion to close shutter when the temperature fuse melts at 65°C
- **Alarm-activated Auto-Release Device (Optional)**  
On receiving a DC 24V activation signal from the fire alarm panel, the shutter curtain automatically closes
- **Interface device (Optional)**  
On receiving a DC OV activation signal (contact free), the device proceeds to supply the DC 24V signal needed to close the shutter curtain.