



## Fire Shutter

Fire fighting and fire protection is a major concern for building designers or architects. Duodex fire shutters are designed to provide stability and integrity for 120 / 240 minutes during fire. The shutter assembly comprises of four main components - curtain (slats), shutter casing, casing cover & side guides. The curtain (slats) are constructed from a minimum of 0.7mm to 1.2mm thick pre-galvanised steel slats interlocking along their entire length to form a continuous hinge.

Duodex fire shutter was tested at Warrington, United Kingdom. The fire shutters have also been successfully tested at FRIM to satisfy the requirement of MS 1073; Part 1: 1987(P) and BS 476 Pt 22: 1987.





## Fire Shutter

Duodex Fire Shutter 2 & 4 hours have passed the Warrington Test laboratory test 2 & 4 Hours. This shutters engineered and constructed with R & D to be the leader in the shutter industry.

Areas of components and openings such as service courts, life shafts, common area and vertical shaft openings shutter. As it is designed for pass thru areas it can provide excellent protection against fire and for security purposes. Large span of shutters are needed for smoke control. We have an assesment report spanning 13m in length.

### Duodex Specification

#### **Curtain**

The Shutter curtain are constructed from continuously 75 X 0.7mm thick slats securely placed by end locks.

#### **Side Guides**

Vertical guides are constructed from mild steel plates bent to channel of 75mm X 90mm which are aligned to the shutter casing.

#### **Roller**

The Shutter roller is made of black B pipe of required size to avoid deflection. Both ends of the pipe is supported with bearings on end plates.

#### **Endplates**

These fire shutters have end plates which are in different thickness and sizes pending on width and height of the shutter.

#### **Operation**

The shutter is driven by a motor which runs on single phase 240V power supply 13 Ampere.

300kg motor runs on 1/4 hp      400kg motor runs on 1/3 hp

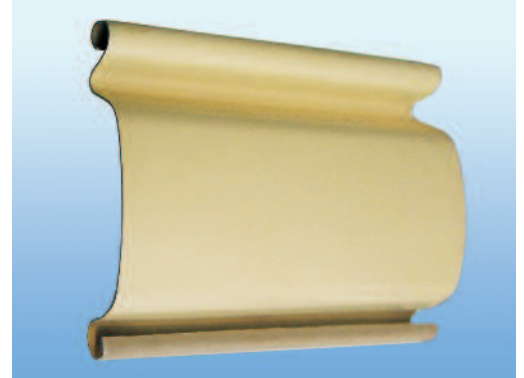
500kg motor runs on 1/2 hp      750kg motor runs on 3/4hp

1000kg motor runs on 1hp

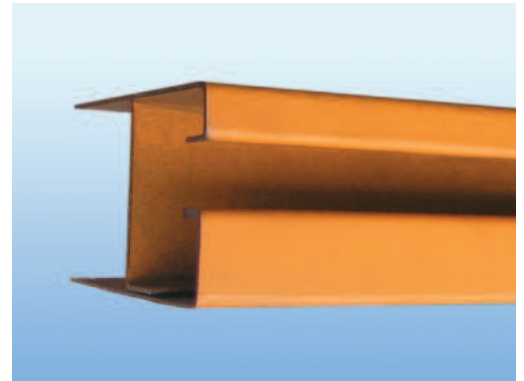
When shutter motor is over 1000kg then the motor requirement will be 415V 3 phase power supply. In any case any motor can be 3 phase but there is additional cost incurred.

A delay timer can be use for escape purpose. The timer will allows the shutter stop at half level and for a few second or minutes before closing fully.

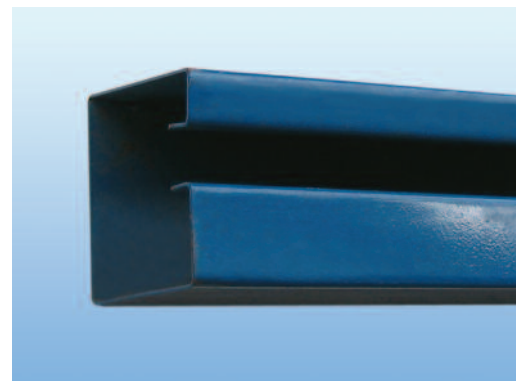
This design can incorporate a fail safe system where by in event a power loss during fire, the shutter can still close.



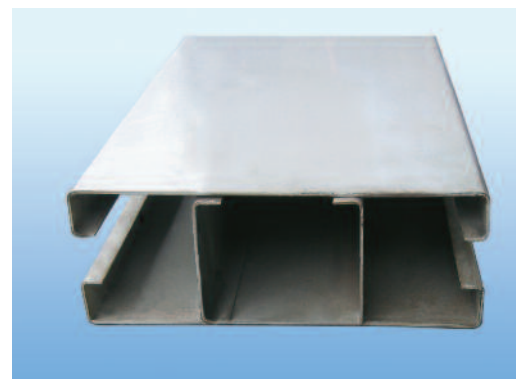
Fire Shutter Slat



Side Guide



Side Guide



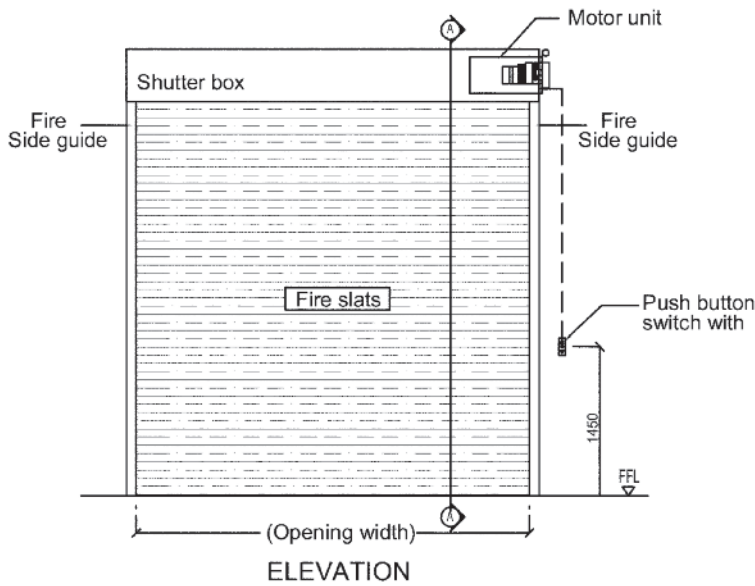
Center Mullion



# Fire Shutter

Clear Width	Clear Height	Box Size	
		A	B
4000mm	3000mm	380	400
6000mm	4000mm	380	400
8000mm	5000mm	400	450
10000mm	6000mm	550	600

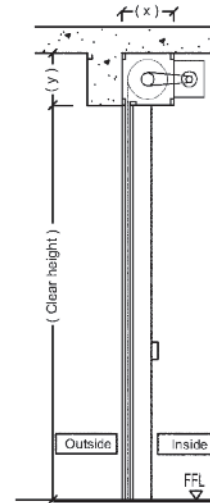
TYPICAL MOTORISED DESIGN



ELEVATION



ROLLER SHUTTER PLAN

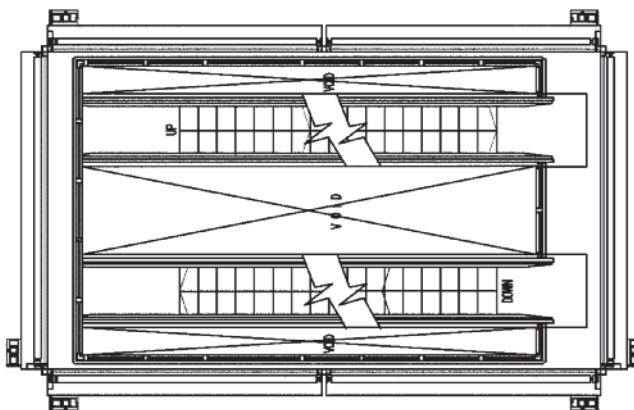


SHUTTER BEHIND BEAM



CENTER MULLION

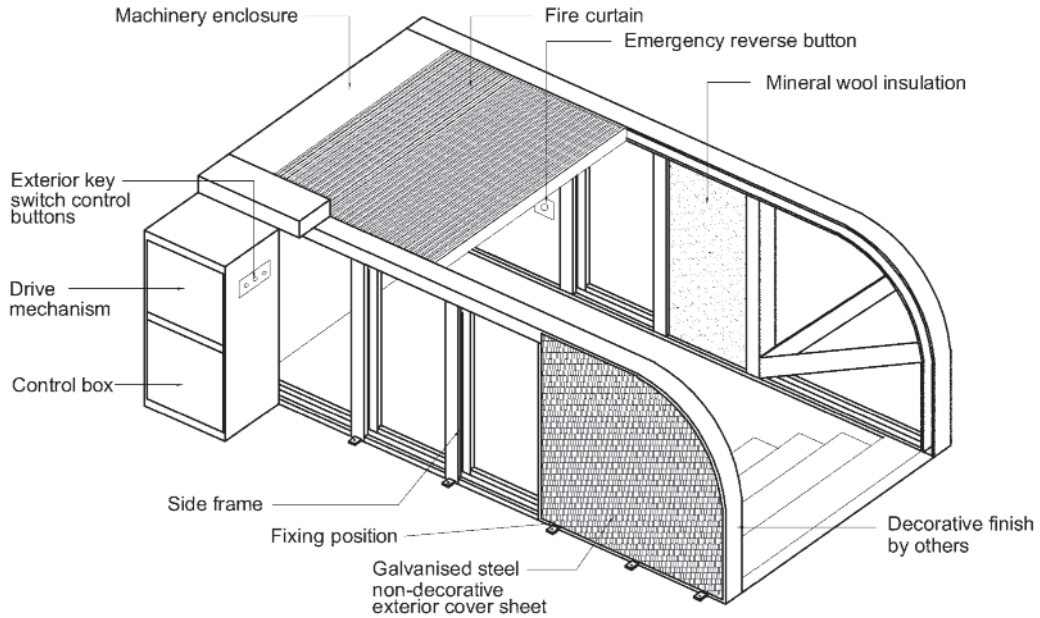
## Fire Shutter ( Escalator fire shutter details)



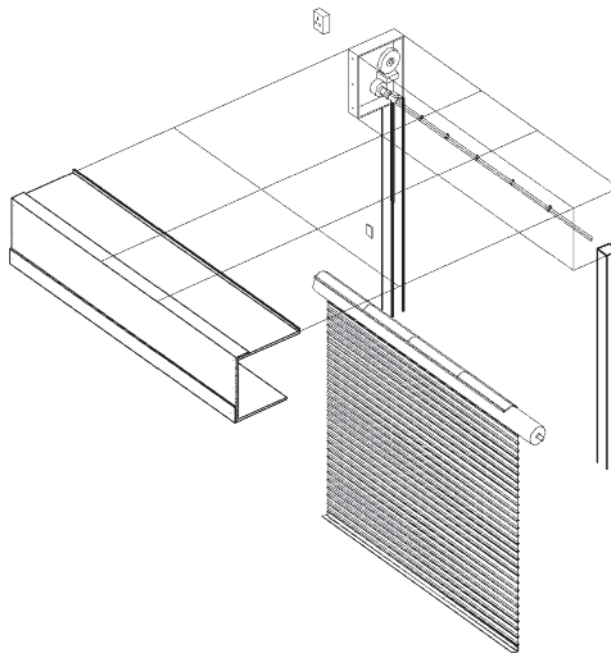


**Special Custom Design Fire Shutter**

**Escalator Fire Shutter**



TYPICAL FACE-FITTED MOUNTING SCHEMATIC



SHAFT ASSEMBLY AND STEEL SLATS