



# DUODEX ENGINEERING & TRADING SDN. BHD. (332685-X)

- Fire protection specialist contractor & engineer
- Fire roller shutter & industrial doors specialist
- Fire rated partition & interior plaster supplier



**H** heavy duty shutter designed to provide security where choice for ventilation is optional. These Duodex shutters come in 3 forms - Colourbond®, Zincalume and galvanised iron (G.I.) types. The curtain (slats) is constructed from 1.0mm thick interlocking slats. Here the shutters can be motorised or chain block.

Sometimes the shutters are powder coated to provide the required colour. For the shop front, the thickness is 0.5mm. These shutters are supplied either motorised or manually operated with powder coating and/or ventilation for the shutters which are supplied as an option.





## Heavy Duty Shutter

In this section, heavy duty shutters are caterogised into 3 types of shutters manually Colour Bond, Zinalume and Galvanized iron. The core material of these 3 shutters is mild steel. It is the coating which makes them different in colour and texture. Colour Bond usually have 2 different colours usually beige on one side and grey on the other. Galvanised is silver like colour and zinalume the latest finishing has speckle of zinc all over.

Each shutter curtain is constructed from interlocking slats, a T section bottom rail steel channels mounted as support angles bolted to structure. The shaft support the curtain which runs on bearing and a gear and is finished with 1 coat of primer.

### Duodex Specification

#### **Curtain**

Shutter curtains are constructed from continuously interlocking mild steel based slats. These slats coated in either colour bond, zinalume and galvanised iron. All the slats are held together by end locks. Thickness of 0.5mm are used for manually operated shutters and 1.0mm for motorized ones. Bottom rails for manually operated ones are roll forme, L shaped and 2 angles welded on the other side. Aluminium T bars can be used. For motorized a T bar with 2 angles bolted can be used.

#### **Side Guides**

Here the side guides used are similar to see thru as both are mild steel based. Size of 45mm x 32mm x 1.2mm for manual operated and 75 x 90x 1.8mm for motorized ones.

#### **Endplates**

Here mild steel plates 3mm for manual operated ones and 4mm for motorized . Where chain block is used for high and big shutters, side plate size of 4mm or more is required.

#### **Finish**

Galvanised finish is for the G.I. Shutters. As for colour bond, beige and grey colour are most common. Zinalume finish is the newest metal finish.

#### **Manual operation**

Most shop front use these type of shutters for security whereby the thickness of slat will be of 0.5mm. Some shutters will have a ventilated holes on the top of the shutters. All the side guides and mullions here are of mild steel type.

#### **Chain block type**

As the maximum length of shutters using manually operated can reach up to only 3.5 meters, a chain block which can reach to 8 meters can be an option. The height which can reach 6 meters can be used. Further more thicker slats can be utilized.

#### **Motorised Operation**

These shutters are the most convenient in usage. Motorised shutters will make the shutter go up and down faster than chain block system.



Zinalume



75mm X 0.5mm GI Slat



Power Coat Slat

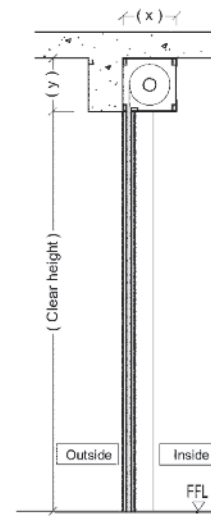
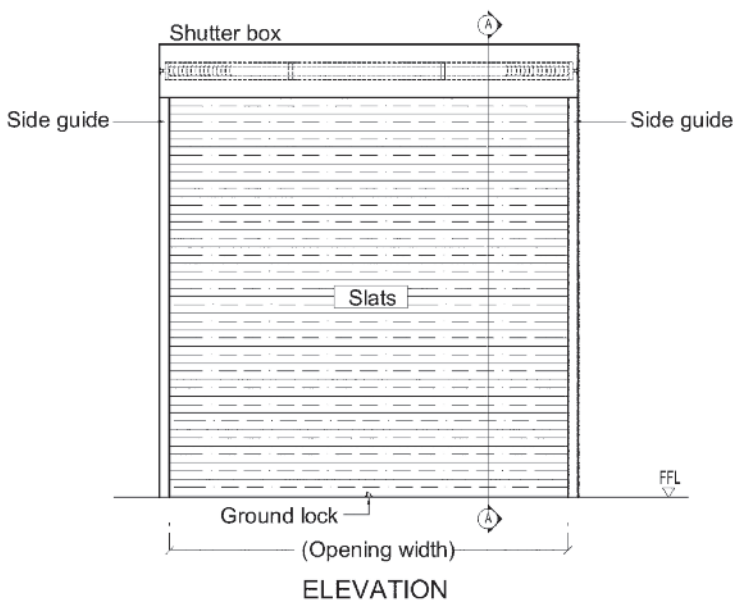


Bottom Metal T Bar (Motorised)



# Heavy Duty 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

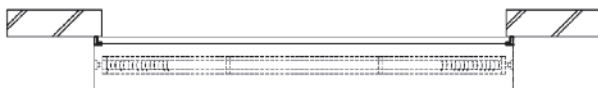


**ROLLER SHUTTER PLAN**

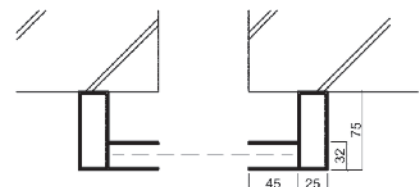


**SIDE GUIDE**

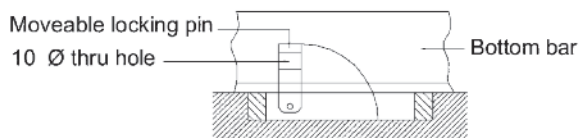
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**ROLLER SHUTTER PLAN**



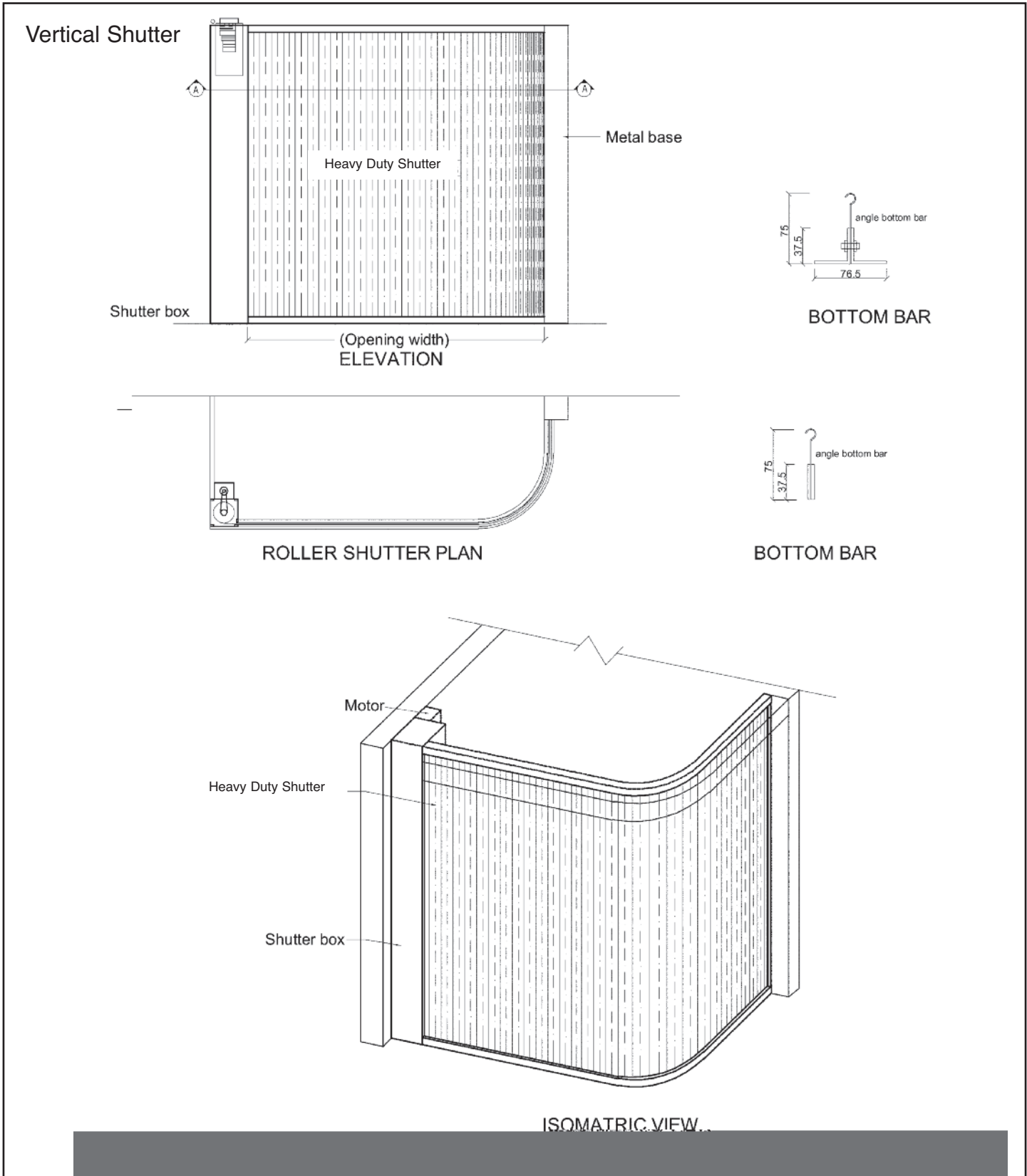
**SIDE GUIDE**



**GOUND LOCK**



**Special Custom Design Heavy Duty Shutter**



**DUODEX ENGINEERING & TRADING SDN. BHD. (332685-X)**

*(Formerly known as FIVE QUAYS ENGINEERING & TRADING SDN. BHD.)*

No1, Jalan 6/4, Taman Sri Serdang, 433300 Serdang Selangor, Selangor Darul Ehsan, Malaysia.

Tel: (603) 8948 3808, 8943 6179, 8943 8022, 8943 6755 Fax: (603) 8943 6752, 8948 3078

**E-mail: sales@duodex.com Website: www.duodex.com.my**