

# ALUMINIUM ROLLER SHUTTER

AMS

APS

**Delta Tech Group**



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# ALUMINIUM ROLLER SHUTTER

## Introduction

Under our Delta Tech Group, Aluminium roller shutter is widely used because of its light weight and corrosion resistance properties.

This unique features make the use of aluminium roller shutters an excellent choice for easy operation and places that constantly exposed to certain elements. Ventilation holes are also available as option for proper circulation.

It is commonly installed in places such as shop houses, utility center, industrials, stalls and HDB.



AMS	Solid Slat
APS	Perforated Slat



## Distinctive Features



### Strong Yet Light

Aluminium has 1/3 density of mild steel, making it light weight



### Security

Single span up to 6 m X 6 m in dimension, this caters to any large openings in the market.



### Ventilation

Custom perforated slat are available for good air ventilation and visibility.



### Operation Versatility<sup>^</sup>

RS can be manually or automatically operated by using hand chain or control box respectively.



### Corrosion Resistance

Aluminium come with Natural Anodised finishing which is excellent corrosion resistance



### Intelligent System(IS)<sup>^</sup>

IS has a built-in Brake Renagement Device that stops the shutter once it touches the ground, this will protect the shutter and the ground from any damages.

## Material & Finish Details

Part	Material	Coating
Curtain	1/1.6mm Thick Aluminium	Natural Anodised, Powder Coated, Fluorocarbon
Side Guide	Aluminium	Electro-galvanized, Colourbond, Powder Coated, Fluorocarbon, Natural Anodised
Bottom Bar	Mild Steel, SUS304	Electro-galvanized, Powder Coated, Fluorocarbon
Shutterhood Cover	Mild Steel, SUS304	Electro-galvanized, Colourbond, Powder Coated, Fluorocarbon
Motor Cover	Mild Steel, SUS304	Colourbond, Powder Coated, Fluorocarbon

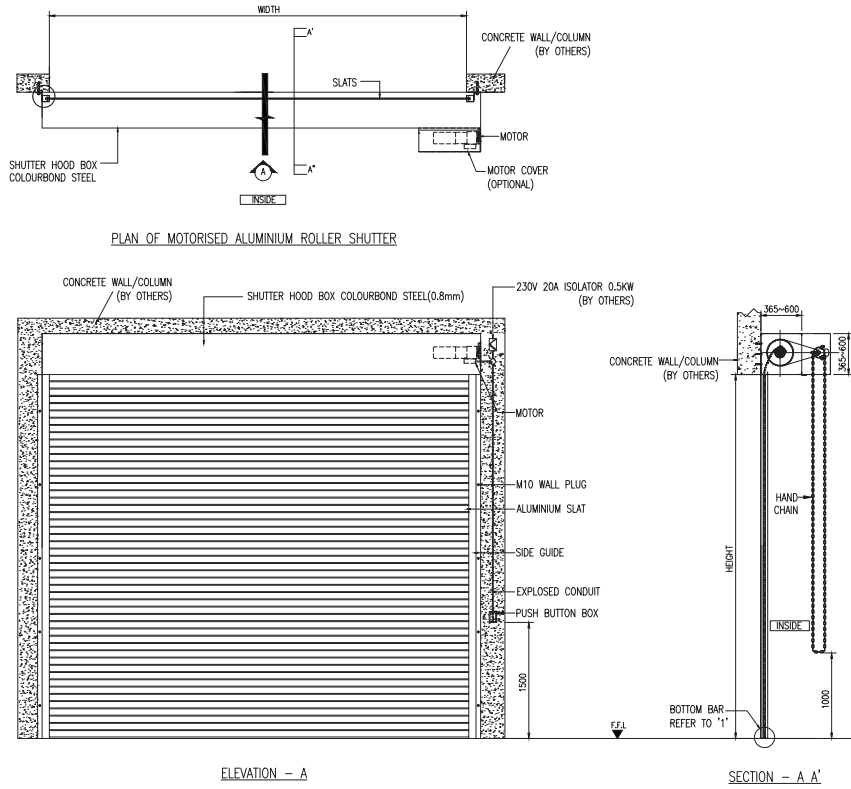
\*Refer DNT Chart for fluorocarbon colour options

\*Refer to oxyplast chart for powder coating colour option

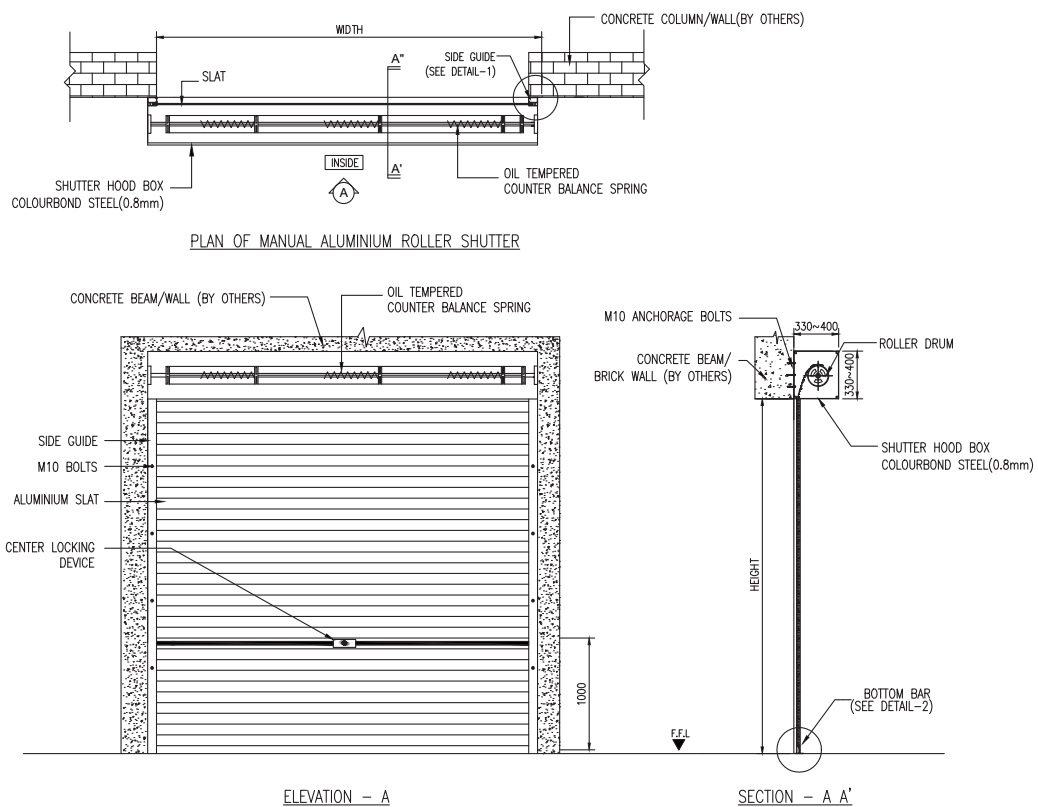
<sup>^</sup>Motorised Model Only

# Typical Drawing

## Motorised Aluminum Roller Shutter Components



## Manual Aluminium Roller Shutter Components



## Motor Specifications

Model	DT-300	DT-400	DT-500	DT-700	DT-1000
Direct Lifting Load (kg)	300	400	500	700	1000
Operation mode	Electric, AC				
Manual Function	Hand Chain Pulley				
Power (hp)	0.20	0.28	0.42	0.47	1.00
Power (W)	150	210	310	350	750
Current (A)	0.63	0.88	1.29	1.46	3.13
Poles (P)	4P				
Rating Time	5 minutes				
Rotation R.P.M	1720				
Gear Transmission	Single-Row-Off-Centre Gear			Double-Layer Planetary Gear	
Gear Ratio	45:1			68:1	
Brake and Clutch System	Autonomous Unit			Dual Brake	
Bracket	Chain Driven				
Sprocket	9T	9T	9T	10T	11T
Chain	#50			#60 / #80	#60 / #80
Length (mm)	445	445	470	570	615
Position Control	Built-in upper and lower limit switches				

\*Thermal Overload 100°C

## Shutter Specifications

Item		Model	Motorised	Manual
Maximum Single Span			6000mm (Width)	3000mm (Width)
			6000mm (Height)	3000mm (Height)
Main Body	Side Guide		W55 x L103 (1.8mm thick) / W70 x L80 (2mm Thick)	
	Shutterhood		365~600	
	Curtain		1mm~1.5mm	
	Bottom Bar		Inverted "T" Shape	

\*All dimensions in mm.

## Slat Profile



## Side Guide Fixing Position



# Components

## Basic Components



Push Button Box  
Electrically operate  
(Mechanical)



Hook  
Manual Operation



Motor  
Roller shutter  
motorised operator

## Optional Components



UPS  
For emergency  
back-up battery  
power



Remote  
Handheld controller  
to operate shutter



Motor Cover  
Protection Cover for  
motor



BMS  
To monitor the  
shutter position  
(open/ close/ fault)  
from BCC/FCC

Others  
Wind Lock  
Explosion Proof  
Remote Interfacing System

### Remarks:

- Due to the properties of printing ink, the colour of the product may differ from the actual color.
- The specifications are subject to change without notice for improvements.
- All items are subjected to Delta Tech Group Terms & Conditions (available at our website, <http://www.deltatech.com.sg>)
- Not all components are applicable

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