

# HORIZONTAL FIRE RATED ROLLER SHUTTER

HFRS 120  
HFRS 240

**Delta Tech Group**



**Delta Technology Pte Ltd**

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# HORIZONTAL FIRE RATED ROLLER SHUTTER



UP TO  
240 minutes | FIRE Resistance

Under our Delta Tech Group, HFRS series Horizontal Fire Rated Roller Shutter is tested to SS 489: 2015 & BSEN 1634 with 4 hours fire rating integrity . We are listed with SETSCO Services Pte Ltd. Horizontal Fire Rated Roller Shutter is commonly used in buildings and structures to isolate and compartmentalize fire during a fire outbreak. Our Horizontal Fire Shutter is designed to fit most size requirement. Our unique design allows the shutter to be sized to 7m by 40m, which is currently largest in the market.



Model	Hours of Integrity
HFRS 120	2 Hours Integrity
HFRS 240	4 Hours Integrity



Before Test



After Test

## Distinctive Features



### High Standard of Fire-Rating

Ensues highest standard of fire safety in the industry with Fire integrity up to 4 hours. Tested to SS489:2001/BS 476/ BSEN1634-1:2008.



### Bigger, Larger, Wider

Single span up to 7m (width) x 40m (length) in dimension, this caters to any large openings in the market.



### Intelligent System (IS)

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. In addition, IS will automatically reset itself after the fire alarm is switched off, this conveniences the user as no ohysical reset is required.



### Operation Versatility

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



### Fire Activation Via Alarm

Upon activation of fire alarm (ERS400), the alarm will activate the shutter to operate and close to the end.



Fire



Fire Alarm  
ERS400

DTFRS  
closes via  
gravity



Isolate the Fire

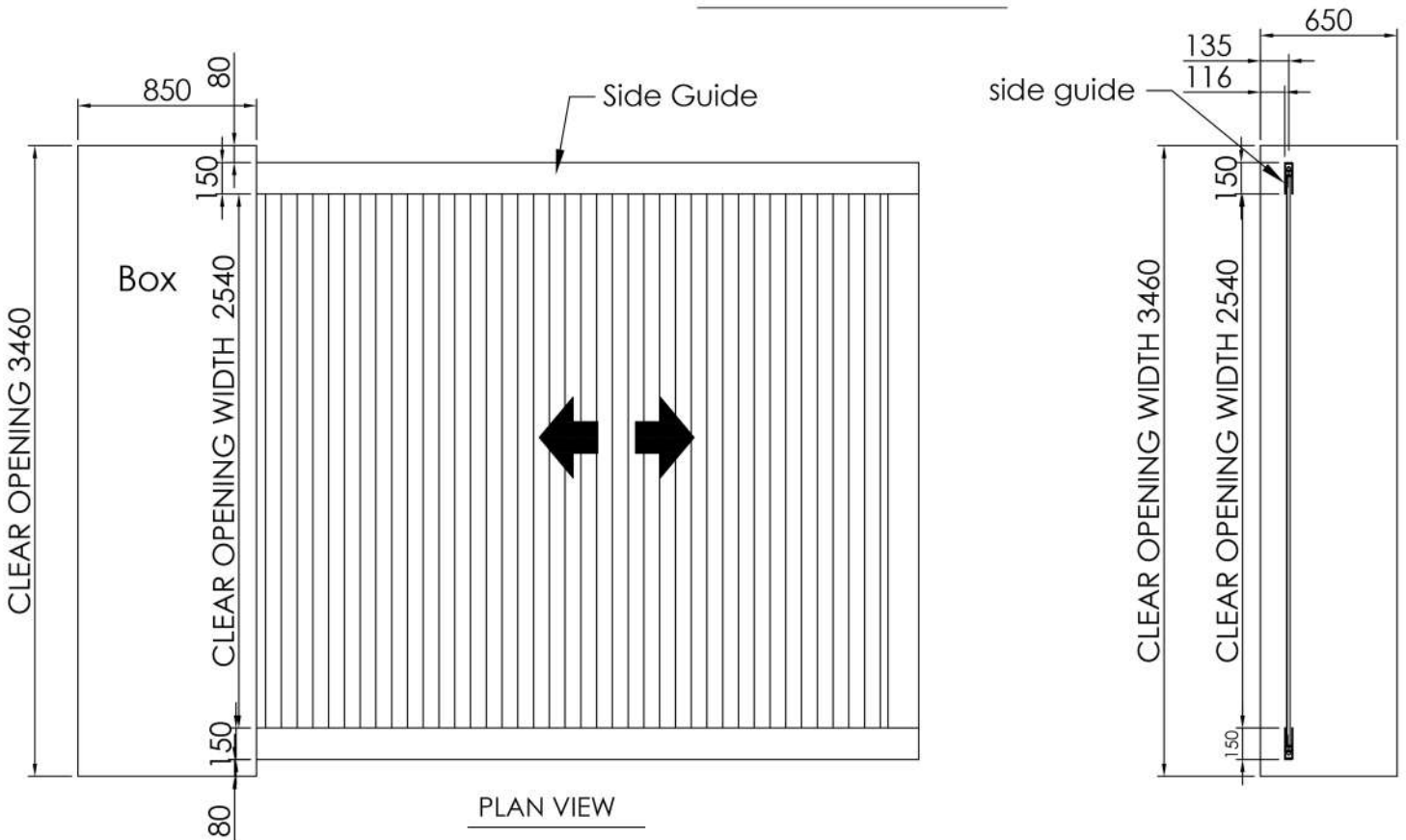
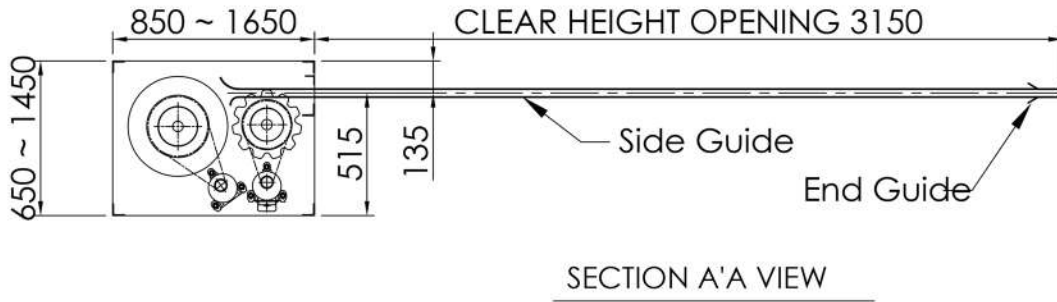
Protect materials  
on the other side  
of the curtain



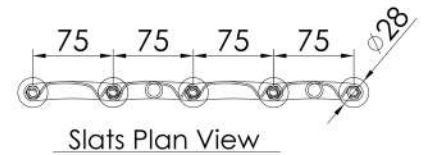
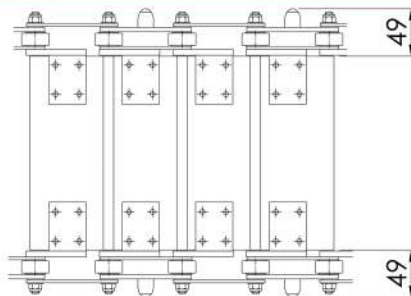
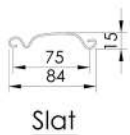
Protect lives  
by ensuring that the  
escape route are  
safe to escape

Typical Drawing

Horizontal Fire Rated Roller Shutter Component



Slat Profile



## Material & Finish Details

Parts	Material	Additional Coating
Slat	Galvanized Steel 0.8 - 1.5mm	Electro-Galvanized, Fluorocarbon, Colorbond or Powder Coated
Shutterhood	Galvanized Steel 0.8mm	Electro-Galvanized, Fluorocarbon, Colorbond or Powder Coated
Side Guide	Galvanized Steel 4mm	Electro-Galvanized, Fluorocarbon, Colorbond or Powder Coated
End Cap	Galvanized Steel 1.5mm	Electro-Galvanized, Fluorocarbon, Colorbond or Powder Coated

\*Refer DNT Chart for fluorocarbon colour options

\*Refer to oxyplast chart for powder coating colour option

## Motor Specifications

Model	DT-300	DT-400	DT-500	DT-700	DT-1000	DT-1500	DT-2000	DT-3000
Direct Lifting Load (kg)	300	400	500	700	1000	1500	2000	3000
Operation mode	Electric, AC							
Manual Function	Hand Chain Pulley							
Power (hp)	0.20	0.28	0.42	0.47	1.00	1.50	2.00	3.00
Power (W)	150	210	310	350	750	1000	1500	2200
Voltage (V)	230(V)	230(V)	230(V)	230/415(V)	230/415(V)	415(V)	415(V)	415(V)
Current (A)	0.63	0.88	1.29	1.46	3.13	3.3	3.5	5
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	11T	11T	11T
Chain	#50		#60 / #80	#60 / #80	#80	#80 / #100	#100	
Length (mm)	445	445	470	570	615	635	660	690

\*Thermal Overload 100°C

## Shutter Specifications

Model		HFRS 120	HFRS 240
Fire Integrity		2 Hours of Fire Integrity	4 Hours of Fire Integrity
Maximum Single Span		7000 (Width)	
		40,000 (Length)	
Main Body	Side Guide	150 x 38 [U-Shape]	
	Shutterhood	850 ~ 1650 (L) x 650 ~ 1450 (W)	
	Slat	75	
	Bottom Bar	60 x 19	

\*All dimensions in mm.

# Components

## Basic Components



Push Button Box  
Electrically operate  
(Mechanical)



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>)

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