LATERAL FIRE RATED ROLLER SHUTTER

LFRS120 LFRS240



Delta Tech Group



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BRANZ





LATERAL FIRE RATED ROLLER SHUTTER

Introduction

Under our Delta Technology, LFRS series Insulated Fire Rated Roller Shutter is tested to SS 489 : 2001 & BSEN 1634-1 : 2008 with 4 hours fire rating integrity value. We are listed with SETSCO Services Pte Ltd.

Our lateral shutter are design to compartmentalize and seal off the toughest fire outbreak; offering maximum protect and isolate against fire. The unique design required no single barrel with single motor to operate.

During normal circumstances, the LFRS is always in open position to allow traffic to pass and only to closed via fire alarm activation upon fire outbreak.

LFRS is commonly installed in places such as schools, industrial opening, stalls, malls and car parks where fire hazard can be a concern.







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. LFRS isolate fire



Bigger, Larger, Wider

Single span up to 30m x 8m in dimension, this caters to any large openings in the market.



Spiral Shape

LFRS is able to bend through shaping up as a curved shape yet retaining its fire protection purpose. Minimum radius 200m.



Operation Versatility

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



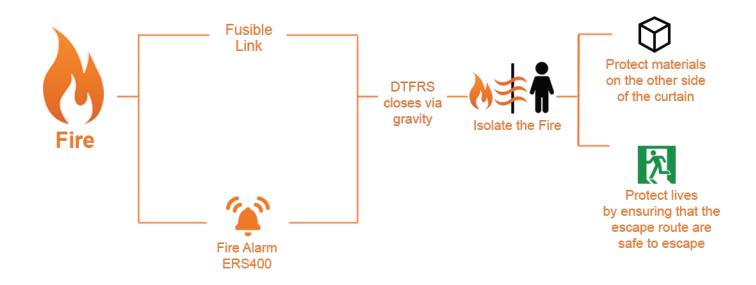
Fire Activation Via Alarm

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



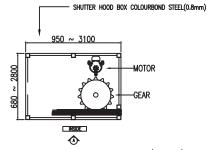
Intelligent System(IS)

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 physical reset is required.

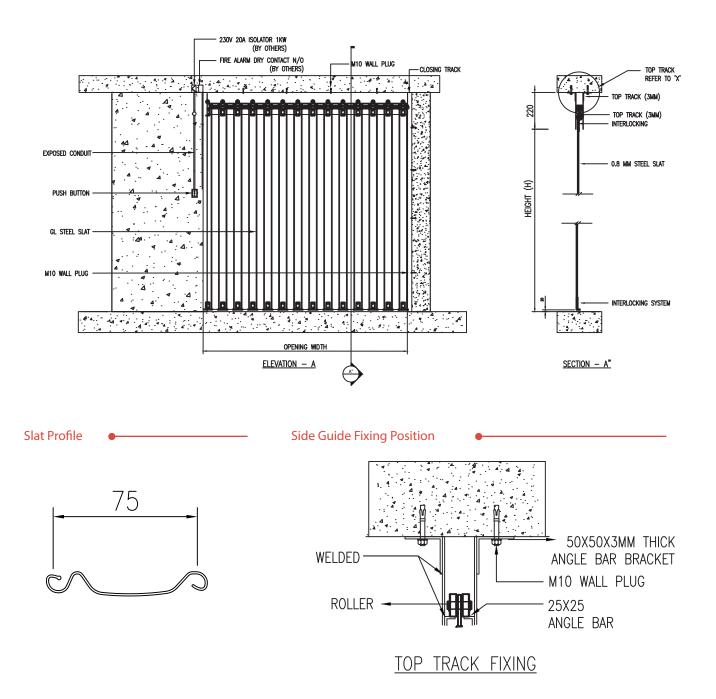




Lateral Fire Rated Roller Shutter Component



PLAN OF LATERAL FIRE RATED ROLLER SHUTTER (2-4HRS)



Material & Finish Details

Part	Material	Coating		
Slats	Mild Steel, SUS304	Galvalume, Colourbond, Powder Coated, Fluorocarbon		
Top Track	3mm Mild Steel	Colourbond, Powder Coated, Fluorocarbon		
Interlocking	Mild Steel, SUS304	Galvanised, Stainless Steel		
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

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Motor Specifications

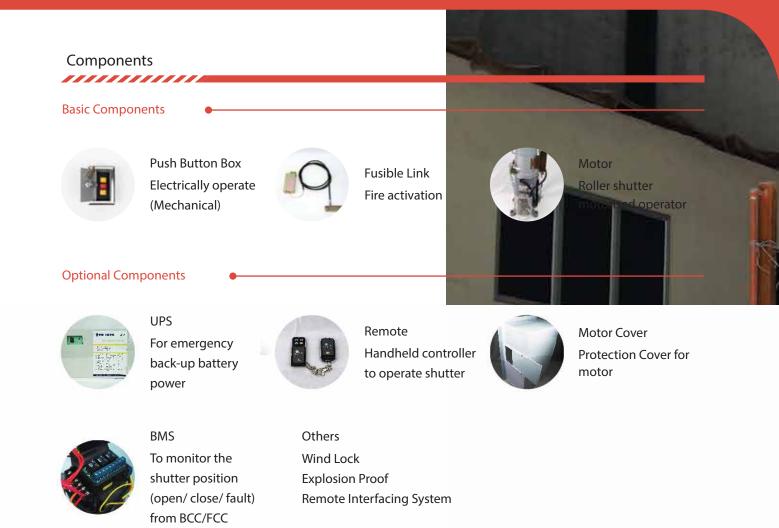
Model	DT-300	DT-400	DT-500	DT-700	DT-1000	DT-1500	DT-2000	DT-3000
Direct Lifting Load (kg)	300	400	500	700	1000	1500	2000	3000
Operation mode	Electric, AC							
Manual Function	Hand Chain Pulley							
Power (hp)	0.20	0.28	0.42	0.47	1.00	1.50	2.00	3.00
Power (W)	150	210	310	350	750	1000	1500	2200
Voltage (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					ear		
Gear Ratio	45:1				68:1			
Brake and Clutch System	Autnomous 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

ltem	Model	LFRS 120	LFRS 240	
Fire Inte	ergrity	2 Hours	4 Hours	
Maximum Single Span		30000 (Width)		
	J J J J	8000 (Height)		
	Side Guide	H220 x W46 (3mm Thick)		
Main	Shutterhood	950 x 680 - 3100 x 2800		
	Slat	0.8mm ~ 1.5 mm		
Body	Roller	32 mm		
	Bottom Bar	"l" Shape		

*All dimensions in mm.



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)

