

INSULATED FIRE RATED CURTAIN





Introduction

Our Delta Technology Insulated Fire Rated Curtain (IFRC) is tested to SS 489: 2001 at TUV SUD PSB to 4 hours fire rating integrity and 4 hours fire insulation. We are listed with TUV SUB PSB and Setsco Services in Singapore. Our double layer curtains are design to compartmentalize and seal off the toughest fire outbreak; offering maximum protection against fire. During normal circumstances, the IFRC is always in the open position to allow traffic to pass. When there is a fire outbreak, the curtains are closed via gravity through fusible link or fire alarm activation. Our IFRC is suitable to be installed in any commercial, industrial, residential and public buildings. Note IFRC is not suitable for daily operation, it should only be activated in an event of fire.

Model	Fire Rating Integrity[E]	Fire Rating Insulation[I]	
IFRC 120	4 Hours Integrity	2 Hours Insulation	
IFRC 240	4 Hours Integrity	4 Hours Insulation	







Before Test After Test











High Standard of Fire-Rating



Ensues highest standard of fire safety in the industry with Fire integrity and insulation up to 4 hours.

Tested to SS489:2001/BS 476.

IFRC compartmentalizes and isolate fire.



Bigger, Larger, Wider



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



Fire Activation Via Fusible Link



IFRC has a fusible link that melts at 69 °C, thereby causing the shutter to slide down freely under gravity. This is a fail-safe mechanism.



Operation Versatility



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



Fire Activation Via Alarm



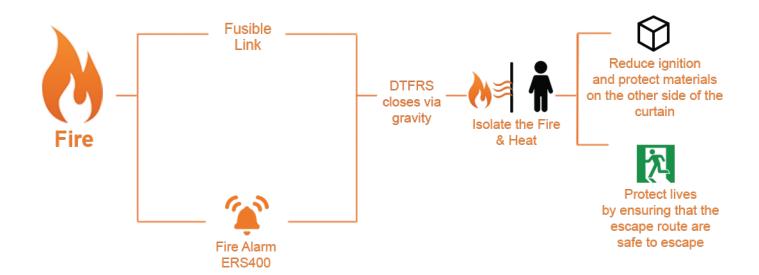
Upon activation of fire alarm (ERS400), the alarm will release the brake, thus allowing the shutter to close down freely under gravity.



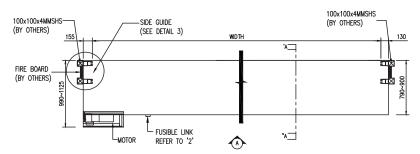
Intelligent System(IS)



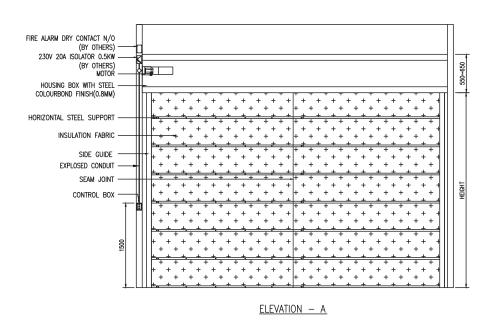
IS has a built-in Brake
Renagement Device that stops
the shutter once it touches the
ground, this will protect the
shutter and the ground from
any damages. In addition, IS will
automatically reset itself after
the fire alarm is switched off, this
conveniences the user as no
physical reset is required.

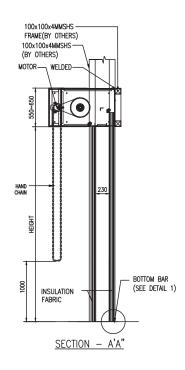


Insulated Fire Rated Roller Curtain Components



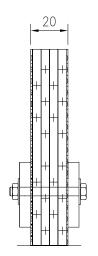
PLAN OF MOTORISED INSULATED FIRE RATED ROLLER CURTAIN (IFRC)

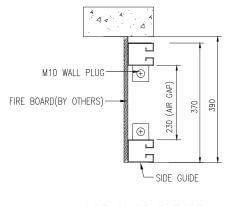


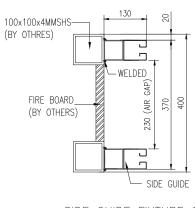


Slat Profile

Side Guide Fixing Position







SIDE GUIDE FIXTURE 1

SIDE GUIDE FIXTURE 2

Material & Finish Details

Part	Material	Coating
Curtain	20mm Thick Ceramic cloth and ceramic wool	No Coating, White colour & Grey
Side Guide	2mm Thick Mild Steel, SUS304	Electro-galvanized, Colourbond, Powder Coated, Fluorocarbon
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

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			lanetary Gear	
Gear Ratio	45:1			68:1	
Brake and Clutch System	Autnomous 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	IFRC 120	IFRC 240	
Fire Integrity		4 Hours	4 Hours	
Fire Insulation		2 Hours	4 Hours	
Maximum Single S		pan 15000 (Width)		
		8000 (Height)		
	Side Guide	W70 x L80 (2mm thickness)		
Main	Shutterhood	550~650		
Body	Curtain	20mm, Double layer		
200)	Bottom Bar	"I" Shape		

^{*}All dimensions in mm.

^{*}Refer to oxyplast chart for powder coating colour option

Components

Basic Components



Push Button Box Electrically operate (Mechanical)



Fusible Link Fire activation



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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