

INSULATED FIRE STEEL SHUTTER





Under our Delta Tech Group, IFSS series Insulated Fire Steel Shutter is tested to BSEN 1634-1: 2008 & SS 489: 2015 with 4 hours fire rating integrity and 2 hours insulation value. We are listed with SETSCO Services Pte Ltd. Our single layer panels are designed to compartmentalize and seal off the toughest fire outbreak; offering maximum protect and isolate against fire and heat. The unique design only required single barrel and single panel which only required minimum guide space. During normal circumstances, the IFSS is always in open position to allow traffic to pass and only to closed via gravity through fusible link or fire alarm activation upon fire outbreak.



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

Model	Fire Rating Integrity [E]	Fire Rating Insulation (I)		
IFSS	4 Hour	2 Hour		



Before 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/BSEN1634-1:2008. IFSS compartmentalizes and isolate the fire



Bigger, Larger, Wider



Single span up to 14.5 x 7.5 in dimension, this caters to any large openings in the market.



Fire Activation Via Fusible Link



IFSS 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



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



Fire Activation Via Alarm



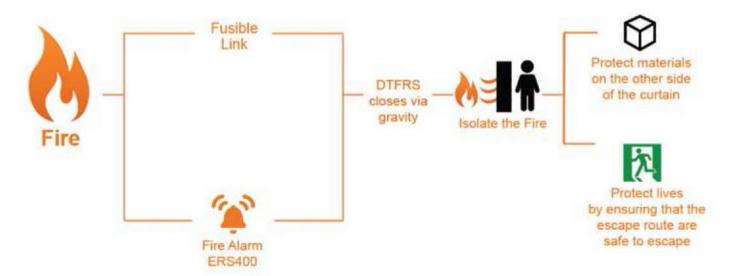
Upon activation of fire alarm (ERS400), the alarm will activate the shutter to operate and close to the end.



Intelligent System(IS)

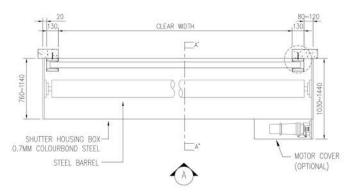


IS has a built-in Brake
Renagement Device that stops
the shutter once it touches the
ground, this will protect the
shutter and the ground from
any damages. In addition, IS will
automatically reset itself after
the fire alarm is switched off, this
conveniences the user as no
physical reset is required.

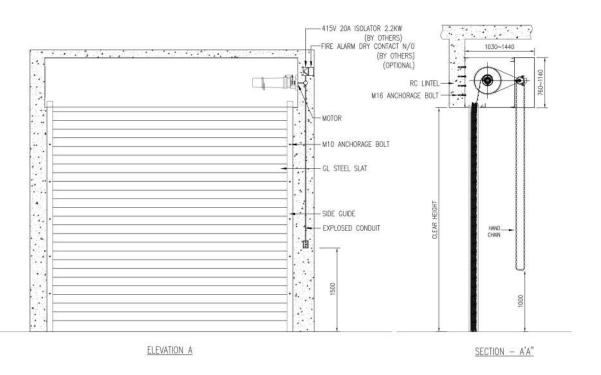


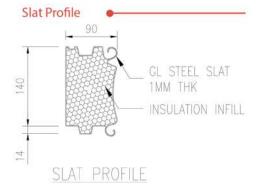
Typical Drawing

Insulated Fire Steel Shutter Component

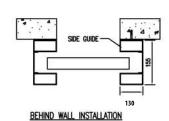


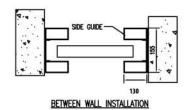
PLAN OF MOTORISED INSULATED FIRE STEEL SHUTTER (IFSS)





Side Guide Fixing Position





Part	Material	Coating		
Slat	90mm width steel with insulation fill,	Galvalume, Colourbond, Powder Coated,		
Sidt	S/S	Fluorocarbon		
Side Guide	2mm Thick Mild Steel, S/S	Electro-galvanized, Colourbond, Powder Coated,		
Side Guide	zmm rnick ivilia steel, 5/5	Fluorocarbon		
Shutterhood Cover	Mild Stool S/S	Electro-galvanized, Colourbond, Powder Coated		
Shutternood Cover	Mild Steel, S/S	Fluorocarbon		
Motor Cover	Mild Steel, S/S	Colourbond, Powder Coated, Fluorocarbon		

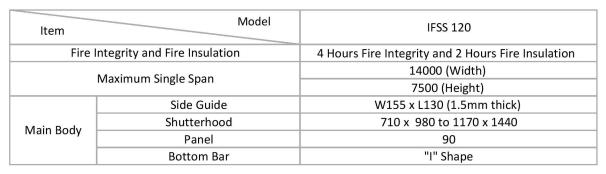
^{*}Refer DNT Chart for fluorocarbon colour options

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	Sing	Single-Row-Off-Centre Gear			Double-Layer Planetary Gear				
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



^{*}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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