

INSULATED FIRE FOLDING CURTAIN



UP TO
240 FIRE Resistance & Insulation

Under our Delta Tech Group, IFRU series insulated Fire folding curtain is tested to BSEN 1634-1:2008 to 4 hours fire rating integrity and 4 hours fire insulation.

Our double layer curtain are design to compartmentalize and seal off the toughest fire outbreak including complex design, corner, shape and sizes. It allow to bend at each corner or run continuously without any additional post in between. During normal circumstances, the IFRU 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.

IFRU is commonly installed in places such as commercial, industrial, residential and public buildings, escalator and void.



	The name		
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0:00:00			
Q17M09-2 RED 维略			
A	13.		
4:00:06			
Q17M09-2 RED 雄略			

Model Fire Rating Integrity		Fire Rating Insulation	
IFRU 120	4 Hours Integrity	2 Hours Insulation	
IFRU 240	4 Hours Integrity	4 Hours Insulation	

Before Test

After Test



High Standards of Fire-Ratng

Ensures the highest standard of fire safety in the industry with fire Integrity up to 4 hours and insulation up to 4 hours. Tested to BSEN 1634-1: 2008



Unlimited Span

Maximum span of unlimited x 9m (H) in dimension, this caters to the largest openings in the market



Versatility

The IFRU can be erected in a 'L' shape or in square/rectangular shape forming a closed loop without the need for side guide



Fire Activation via Fusible Link

IFRU 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



Fire Activation Via Alarm

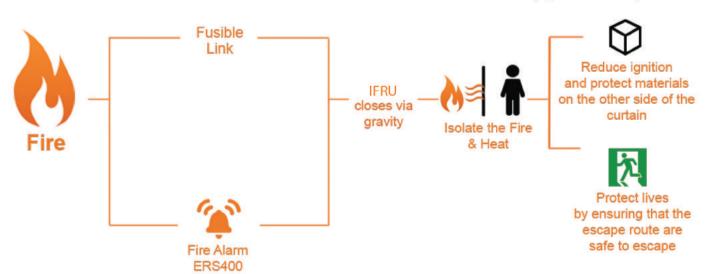
Upon activation of fire alarm (ERS400), the alarm will release the brake, thus allowing the shutter to close down freely under gravity.



Intelligent System(IS)

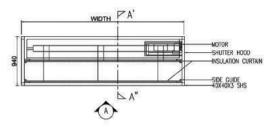
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IS has a built-in Brake
Renagement Device that stops
the shutter once it touches the
ground, this will protect the
shutter and the ground from
any damages. In addition, IS will
automatically reset itself after
the fire alarm is switched off, this
conveniences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



Typical Drawing

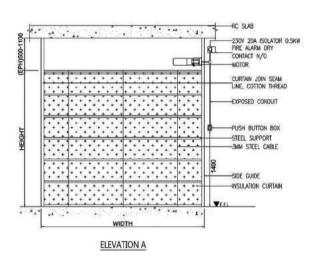
Insulated Fire Folding Curtain Components

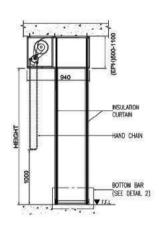


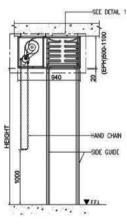
PLAN OF MOTORISED INSULATED FIRE FOLDING CURTAIN (IFRU - SINGLE SPAN)

HEIGHT(H)	EPH
H≤3000	500
3000 <h≤4000< td=""><td>600</td></h≤4000<>	600
4000 <h≤5000< td=""><td>700</td></h≤5000<>	700
5000 <h≤6000< td=""><td>800</td></h≤6000<>	800
6000 <h≤7000< td=""><td>900</td></h≤7000<>	900
7000 <h≤8000< td=""><td>1000</td></h≤8000<>	1000
8000 <h≤9000< td=""><td>1100</td></h≤9000<>	1100

ENDPLATE SIZE (MM)



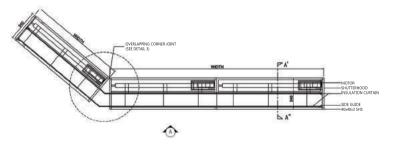




SECTION A'A" (CLOSE POSITION)

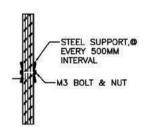
SECTION A'A" (OPEN POSITION)

IFRU of Multi Spans Details



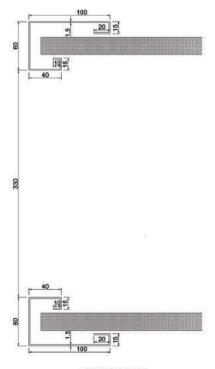
PLAN OF MOTORISED INSULATED FIRE FOLDING CURTAIN (IFRU-MULTI SPANS)

Curtain Profile



CURTAIN PROFILE (20MM THICK)

Details of Side Guide •



SIDE GUIDE DETAIL

Material & Finish Details

Part	Material	Coating	
Curtain	20mm Thick Ceramic cloth and ceramic wool	No Coating, White colour & Grey	
Side Guide	1.5 mm 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



^{*}Thermal Overload Protection cut off at 100 °C

Shutter Specifications

Item	Model	IFRU120	IFRU240	
Fire Rating Integrity		4 Hours Integrity	4 Hours Integrity	
Fire Rating Insulation		2 Hours Insulation	4 Hours Insulation	
Maximum Span		Unlimited (Width)		
		9000 (Height)		
Main Body	Side Guide	W60 x L100 (1.5mm Thick)		
	Shutterhood	500~1100		
	Curtain	20mm, Double Layer		
	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

BMS



Remote Handheld controller to operate shutter



Motor Cover Protection Cover for motor



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



Sealing
Silicone sealant can be
applied onto the shutterhood
to prevent water seepage
However, the shutterhood is
not water tight

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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