

DELTA TECH GROUP

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IFSS

INSULATED FIRE STEEL SHUTTER







NO AIR GAP SINGLE LAYER

COMPACT DESIGN



SINGLE SPAN (MM)

13,000×5,000

Our Delta Technology IFSS Insulated Fire Steel Shutter is tested up to 120 minutes of fire rating integrity and fire insulation under BS EN 1634-1:2014. The Insulated Fire Steel Shutter is tested up to 120 minutes of fire rating integrityand fire insulation under TCVN 9383:2012. Under normal circumstances, the IFSS can be used as a conventional security shutter. In the case of a fire outbreak, the IFSS is able to isolate and compartmentalize the fire.

The IFSS features a single layer steel curtain design.

No air gap; No double layers of curtain; No fabric finishing; Single layer even at 120 minutes of fire rating.

The curtain is constructed of a series of interlocking single continuous roll formed steel slats. Each steel slat is a hollow profile with fire insulation infill materials. The curtain is rolled up onto a barrel via a heavy-duty fire shutter motorised operator, forming a drum.

The IFSS is suitable to be used outdoors'. It is commonly used in commercial buildings, industrial factories, logistic hubs, ports, loading bays, substations, train/bus depots and mechanical carparks etc.

MODEL	INTEGRITY	INSULATION	SLAT THICKNESS	W×HMAX
IFSS 120	120 MINS	120 MINS	60 mm	13,000 x 5,000





¹IP- rated motor required.

² Colours subjected to prevailingcolor chart and availability.

DISTINCTIVE FEATURES

HIGHEST STANDARD OF FIRE RATING

- Ensures highest standard of fire safety in the industry
- Tested to SS486:2001/BS 476/BSEN 1634-1:2005
- Tested to TCVN 9383:2012

FIRE ACTIVATION VIA FIRE ALARM

- Works upon activation of the fire alarm (ERS-400)
- Shutter will be activated to close

BIGGER LARGER WIDER

- Single span up to 14x7.5m
- Caters to any large openings in the market

FIRE ACTIVATION VIA FUSIBLE LINK

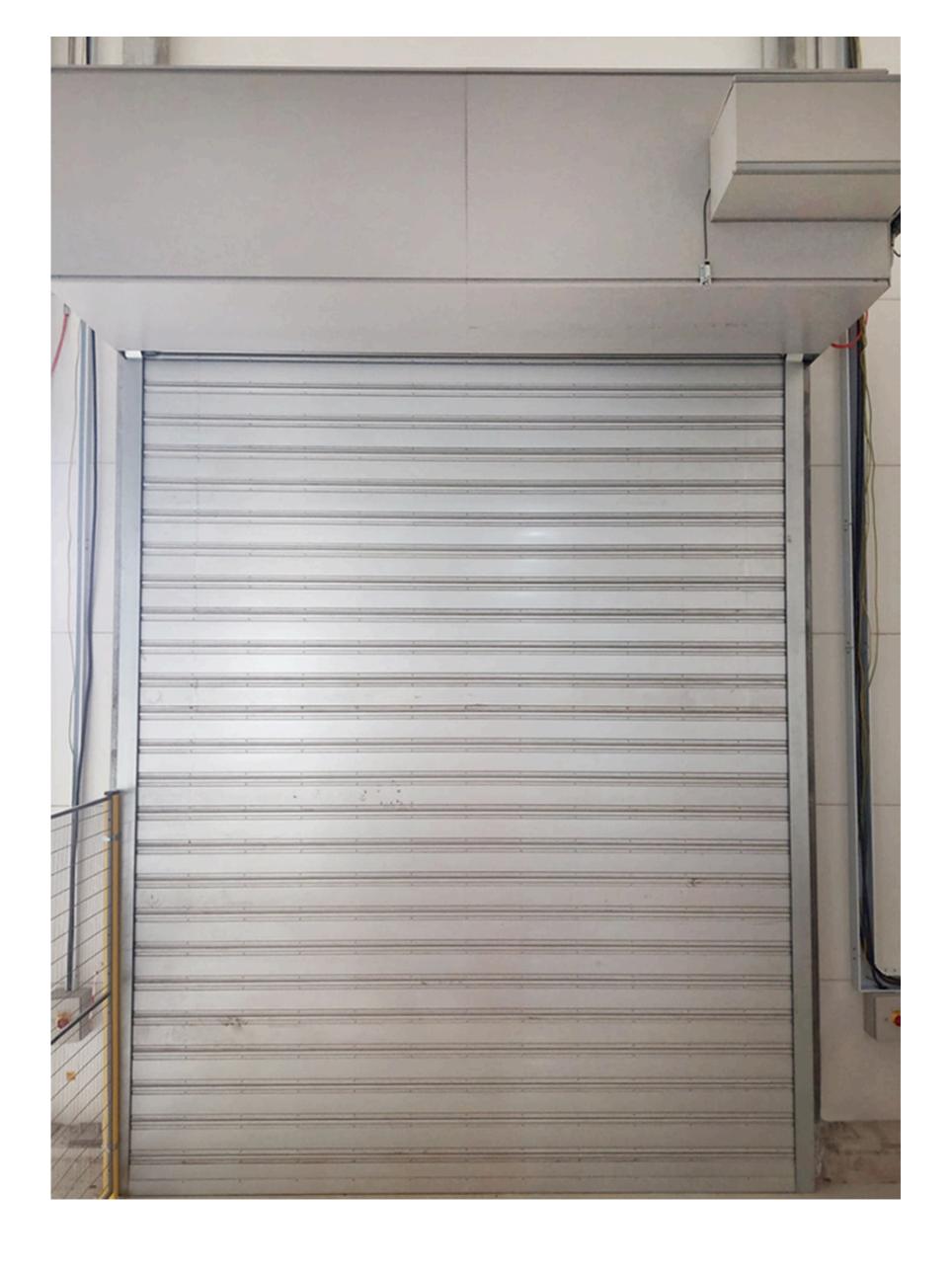
- Has a fusible link that melts at 69°C
- Causes the shutter to slide down freely under gravity Fail-safe mechanism

OPERATION VERSATILITY

- Can be operated automatically via push button
- Or manually via hand chain or rotation crank (dependent on motor type)

INTELLIGENT SYSTEM

- Built-in brake re-engagement device
- Stops the shutter once it touches the ground
- Protects the shutter and ground from any damage
- Automatically resets after fire alarm switches off



MATERIAL AND COATING

PART	BASE MATERIAL	OPT. MATERIAL	BASE COATING	OPT. COATING
SLAT	1.5 mm ONE SIDE & 0.8 mm OTHER SIDE WITH INSULATION INFILL	SUS 304 / 316	GALVALUME (GL)	COLOURBOND / POWDER COATED / PVDF
SIDE GUIDE	3 mm THICK MILD STEEL	SUS 304 / 316	GALVANIZED (GI)	COLOURBOND / POWDER COATED / PVDF
SHUTTERHOOD COVER	0.8 mm THICK MILD STEEL	SUS 304 / 316	COLOURBOND (PPGI) RAL7007	COLOURBOND / POWDER COATED / PVDF
MOTOR COVER	0.8 mm THICK MILD STEEL	SUS 304 / 316	COLOURBOND (PPGI) RAL7007	COLOURBOND / POWDER COATED / PVDF

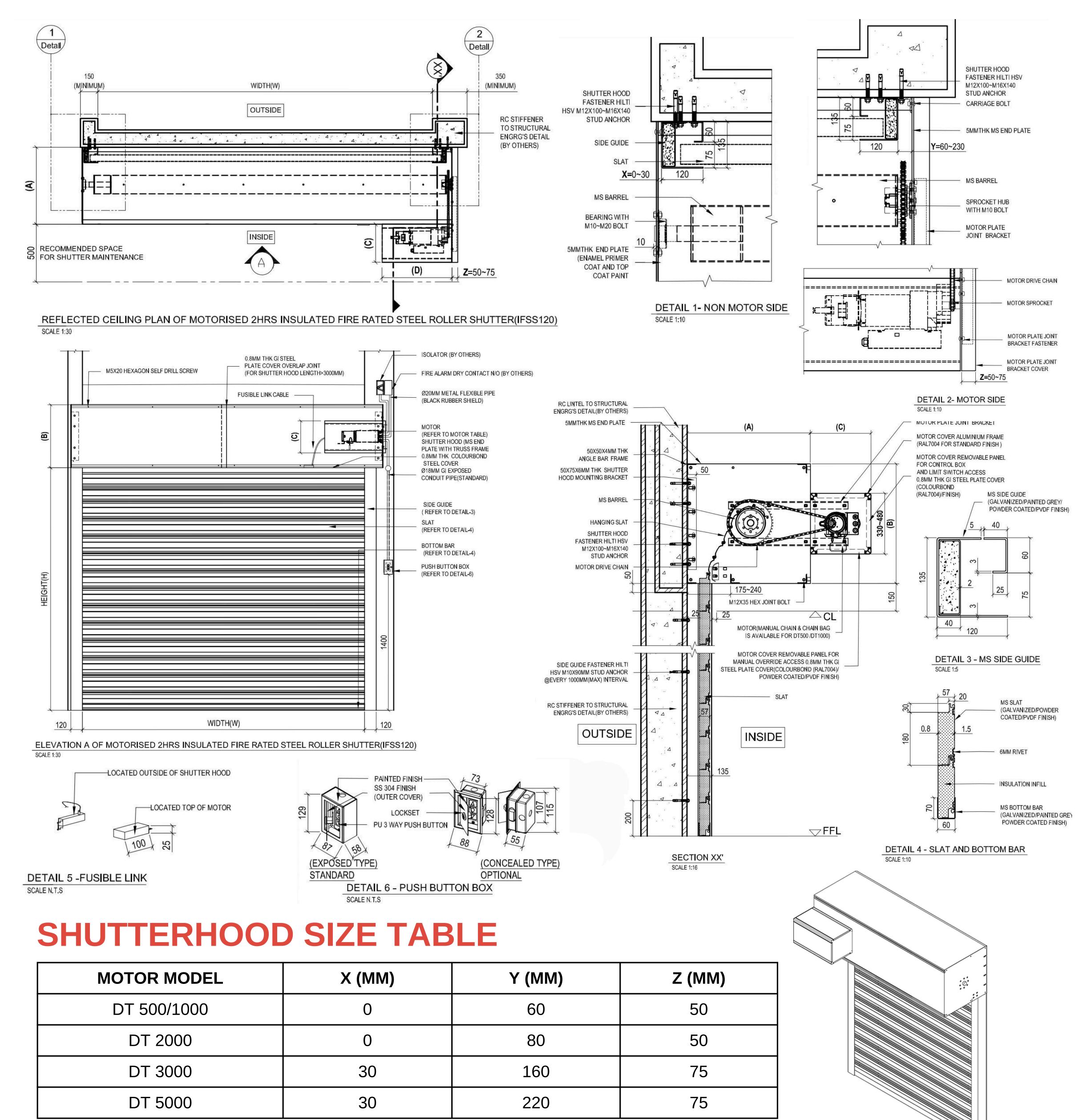
^{*}All colourbond coating colors will be in accordance to the color chart (subjected to availability)

MOTOR SPECIFICATIONS

MODEL	DT-500	DT-1000	DT-2000	DT-3000	DT-5000	
POWER	250W	550W	1500W	2200W	3700W	
TORQUE	65Nm	140Nm	400Nm	1350Nm	2150Nm	
RATED VOLTAGE	AC 2	230V	AC 400V			
PHASE			3			
FREQUENCY			50Hz			
STARTING CURRENT	10A	20A	12A	8A	12A	
FULL-LOAD CURRENT	2.5A	5A	3A	5.8A	6.5A	
STARTING METHOD	CAPACITO	DR START	DIRECT ON LINE			
POLE	4					
INSULATION CLASS						
DRIVE CHAIN SIZE	#50		#80	#80		
OUTPUT SPROCKET	8T	9T	10T	13T	14T	
OUTPUT SPEED	27rpm	29.5rpm	24rpm	13rpm	12.5rpm	
MANUAL OVERRIDE	HAND	CHAIN	ROTATION CRANK			
THERMAL PROTECTION	120)°C	FAN COOLED WITH COOLING FINS			
CONTROLS	BUILT-IN PCB	IC CONTROL	EXTERNAL PCB IC CONTROL BOX			
CONTROLLED DESCEND	BRAKE RELEASE WITH SPRING CLUTCH					
THERMAL RELEASE	GLASS BULB / FUSIBLE LINK					
FIRE ALARM INPUT	24V DC / DRY CONTACT					
BMS FEEDBACK	FULLY OPEN / FULLY CLOSED / ERROR					

DETAILED DRAWING

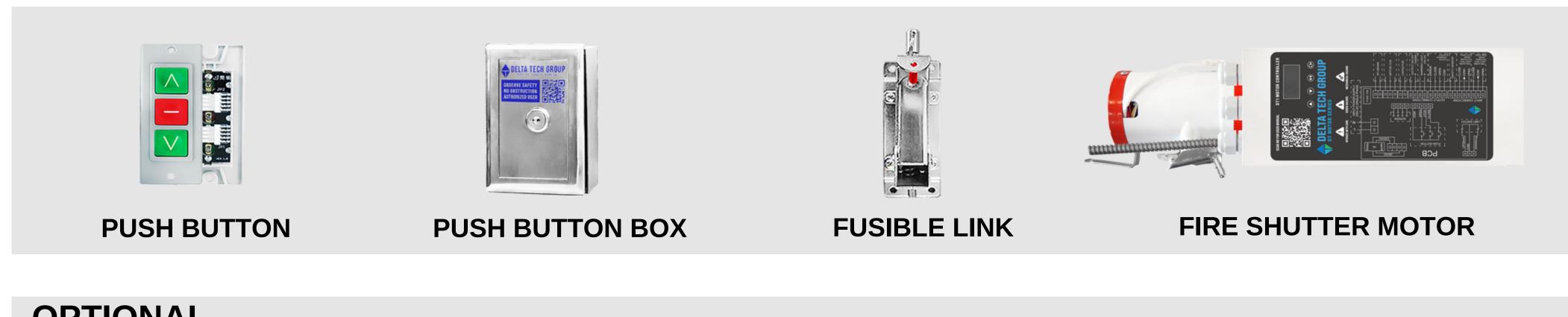
IFSS 120 E: 4 HOURS I: 2 HOURS



W < 6,000	6,001 < W < 10,000	10,001 < W < 12,000	12,001 < W < 14,000
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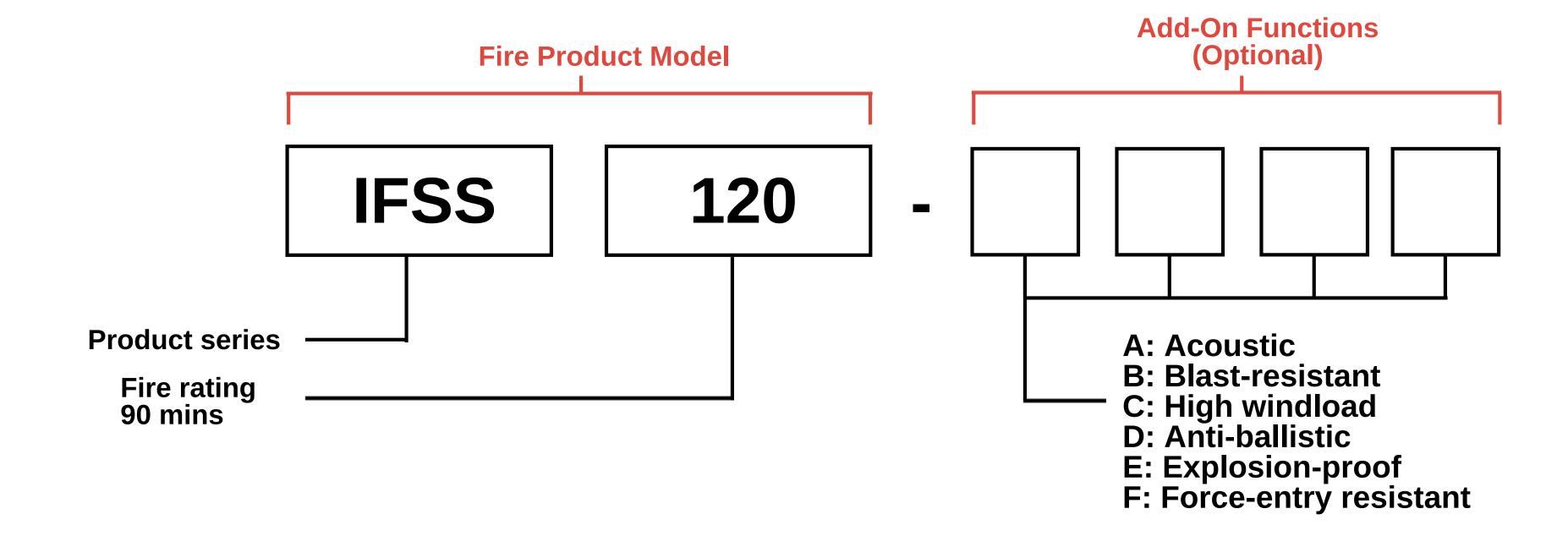
Н	ENDPLATE HEIGHT (B)	ENDPLATE LENGTH (A)	ENDPLATE LENGTH (C)	ENDPLATE LENGTH (D)						
1200	550	1200	550	900	550	600	550	570	300	600
2500	650	2150	650	2000	650	1200	650	670	330~440	600~800
3900	800	3600	800	3050	800	2500	800	820	330~440	600~800
5900	1000	5600	1000	5200	1000	5000	1000	1020	330~440	600~800
8000	1200	7500	1200	7350	1200	7000	1200	1220	330~440	600~800
		8000	1400	8000	1400	8000	1400	1420	330~440	600~800

ACCESSORIES

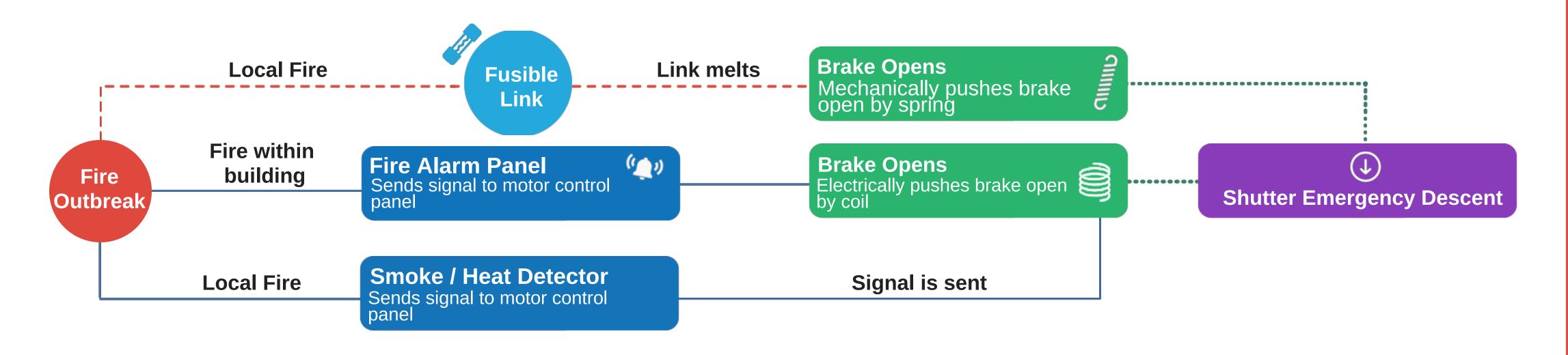




PRODUCT SERIAL



FIRE ACTIVATION



Does not require constant power supplyRequires constant power supplyGravity



PT. MITRA MANDIRI INDUSTRI Kav. B-009, Jl. Hang Kesturi Taiwan Industrial Park, Kabil Batam, Indonesia

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