

FIRE RESISTANCE Roller Shutters

*Included of Newly Developed
Double Walled Insulated Design
for Sound Transmission Management*

- 2 & 4 Hour Fire Rated Resistance
- BS 476 Part 22 & MS 1073 Part 3 1988
- Tested in Warrington Fire Research Center UK & Sirim Malaysia



Fire Compartment Requirements

- Residential • Commercial • Industrial



- Included of Newly Developed Double Walled Insulated Design for Sound Transmission Management



ISO 9001-2008 Quality Management System



MS ISO/IEC 17021-2006 QS 18112006 CB 04
ISO 9001-2008 Manufacturing Standard



MITI Industrial Innovative Award 1996



MITI Industrial Product Excellent Award 1998



Selangor State Excellent Product Award 1999



Selangor State Excellent Product Innovative Award 2000



SIRIM Certificate



Warrington Fire Test Certificate



SIRIM Impact Tested

FIRE RESISTANCE Roller Shutters



BS 476 Part 22 & MS 1073 Part 3 1988
2 & 4 Hour Fire Rated Resistance

Design Specifications

Shutter Curtain

1. Single Skin Design

Roll formed from 1st grade BHP Zincalume steel SKB-A7 curve slat curtain.

2. Double Walled Insulated Design

Roll formed from 1st grade BHP Zincalume steel SKB-F7D flat slat curtain. All slats are infilled with 80kg/m³ rockwool.

Guide Rail

Fabricated from hot-dipped galvanised steel of 3.0mm with one piece design surface mounted type.
Model : SKB-G65 powder coated

Bottom Bar

Assembled of 2 pieces of 38x38x3mm galvanised steel angle bolted 800mm pitch with galvanised bolts and nuts or 2 pieces of 40x40x6mm steel flat bar.
Model : SKB-T120 powder coated

Shutter Enclosure Box

Fabricated from heavy duty 7.0mm steel plate for both ends and supports with steel frame with very well black primer one coat. Box covers shall be of 0.8mm steel sheets with BHP zincalume finishing.

Motor Drive Unit

Standard Features

Power Source : 110v 60Hz 1 phase
220v 60Hz 1 phase
230v 50Hz 1 phase
400v 50Hz 3 phase

Insulation Class E

Manual Chain Override

One unit push button switch

Gravity drop level

Auto close by relay switch after receive of 24vdc fire signal

Optional Features

Fail-Safe 24 vdc ER-S-400 Electric Releaser

Extra upper limit safety switch

Air pressure safety bottom sensor

Wireless remote control

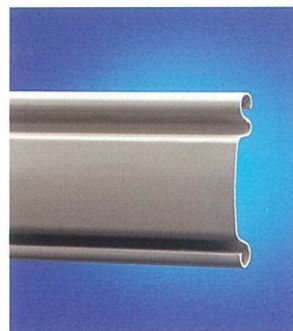
Stainless Steel Guides

Typhoon rated design

Guide silencer strips



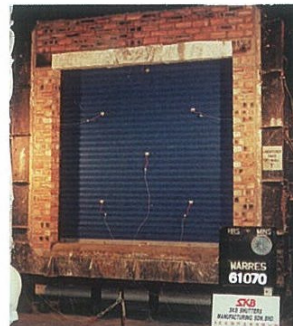
Shoplots, Malaysia



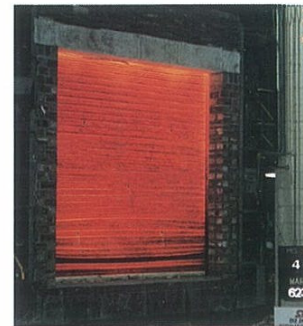
SKB-A7 (20kg/m²)



SKB-F7D (35kg/m²)



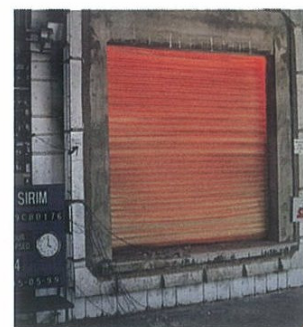
Warrington-Before Fire Test



Warrington-After Fire Test

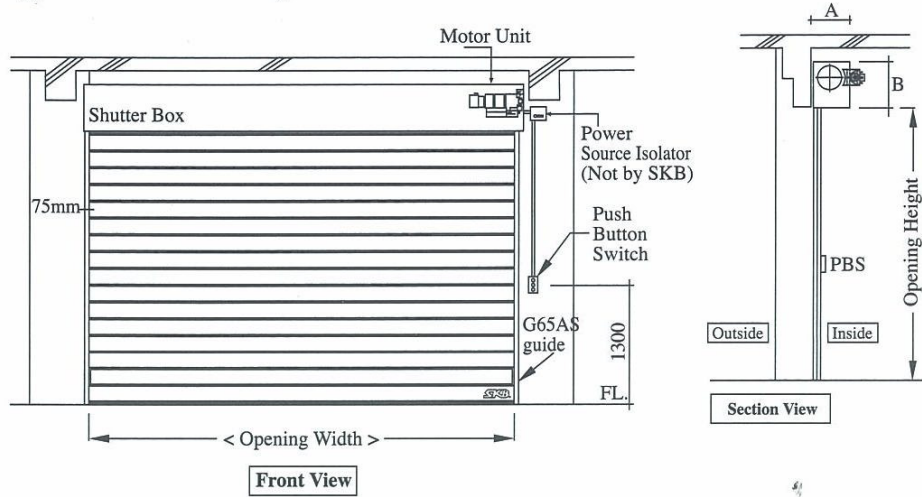


SIRIM-Before Fire Test

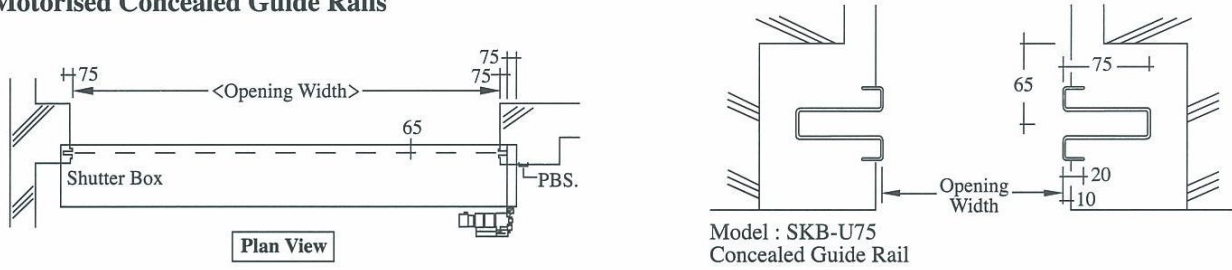


SIRIM-After Fire Test

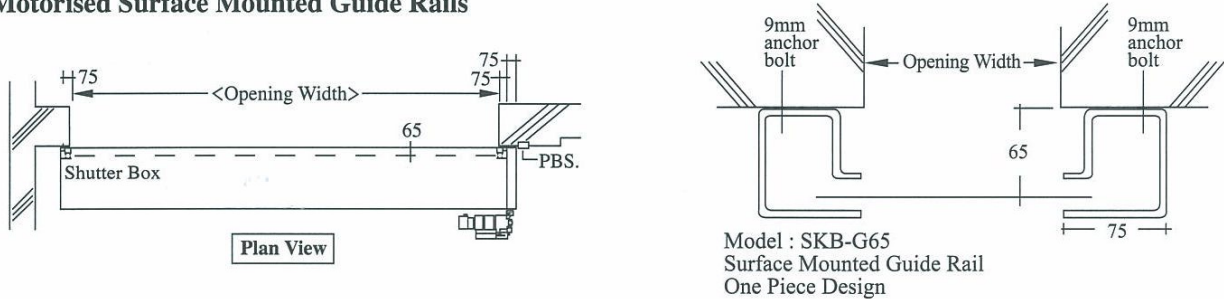
Typical Motorised Design



Motorised Concealed Guide Rails



Motorised Surface Mounted Guide Rails



Motorised Box Enclosure Size

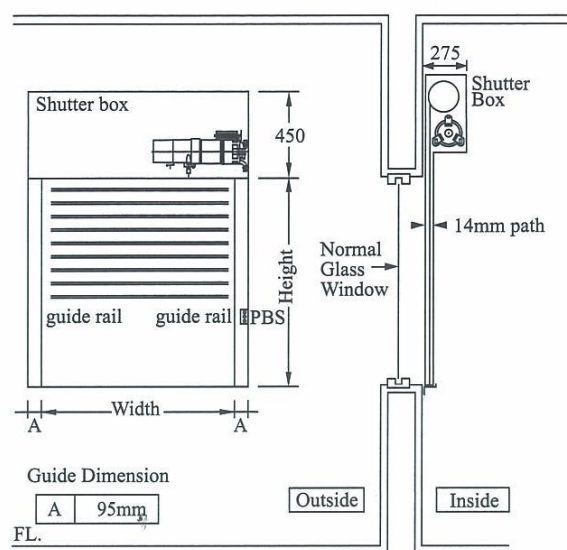
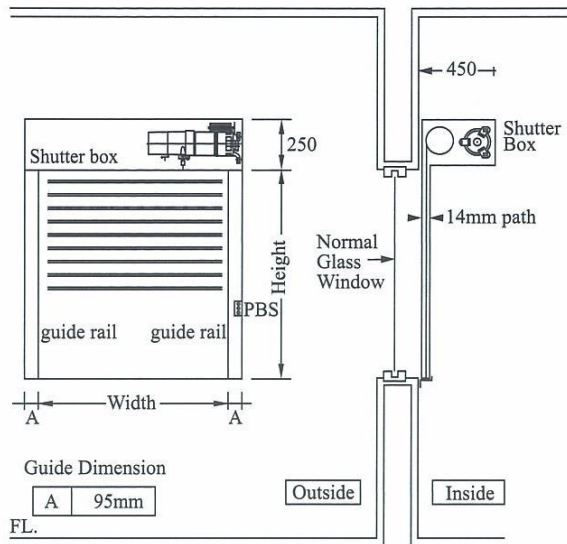
Clear Width	Clear Height	Box Size	
		A	B
7000 mm	3000 mm	400 x 500	
8000 mm	4000 mm	450 x 600	
8000 mm	5000 mm	500 x 600	
9000 mm	6000 mm	600 x 650	

Other Box size please refer to our Technical Department

Box height is decided by the opening height



Surface Mounted Installation Details



Specifications

Shutters Curtain

Design Model SKB-A738.

Roll formed from 1st grade zinalume / galvanised colourbond steel with 38mm pitch design and folded end lock safety. < stainless steel also available >

Thickness of shutters confirm to BS 476 part 22 approved.

Bottom Bar

Fabricated of 2 pieces of flat steel bar of 40mm x 4mm bolted.

Guide Rails

Pressed steel section of minimum of 1.5mm thickness of groove of minimum of 30mm depth. Natural galvanised finishing.

Enclosure Box

Pressed galvanised steel sheet to suite box size comply to fire test approved thickness.

Operation Control

Motorised type :

Gear motor with thermal protector, limit switches, manual override, c/w push button switch with keys lockable.

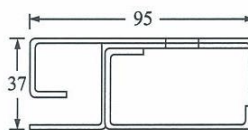
- Power Source : 110v 60Hz 1 phase Insulation Class E
- 220v 60Hz 1 phase Insulation Class E
- 230v 50Hz 1 phase Insulation Class E
- 400v 50Hz 3 phase Insulation Class E

Auto close by relay switch after receive of 24vdc fire signal < wiring from fire console by others >

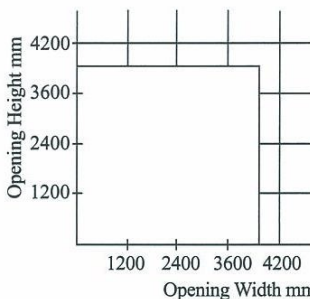
Optional Fire Mode Closing

A. by self gravity fuse link B. 24vdc Electric Releaser ER-S-400

Please call our Technical Department for a Product Comparison table to copied products.



Guide Model SKB-MFG95



Box Design Size



Shutter Model SKB-A738

Fire Proof Design Approved

Welcome to our Office and Production Plant and Showroom



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Recycle Material



We reserve the rights to upgrade any specification without any prior notice. 0914