



**NAFFCO**  
PASSION TO PROTECT

# FIRE RATED DOOR

## TECHNICAL PORTFOLIO



### WIDE RANGE OF CERTIFIED FIRE-RATED PRODUCTS:

- Stainless Steel Door
- Blast Resistant Door
- Rolling Shutter
- Fully Glazed Door
- Wood Finished Steel Door
- Acoustic Door
- Hospital Door
- Ironmongeries



over  
**2,000**  
Engineers



over  
**15,000**  
Employees



over  
**6,500,000** ft<sup>2</sup>  
Manufacturing Facilities



Serving over  
**100**  
Countries



Over **900** Internationally  
Certified  
Products



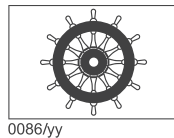
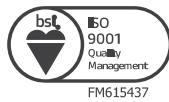
# AN INTRODUCTION TO **NAFFCO**

NAFFCO was founded in Dubai, UAE to become the world's leading producer and supplier of life safety solutions. By recognizing the importance and convenience of having easy access to multiple safety services, we became specialized by offering complete solutions under one roof for all types of high quality firefighting equipment, fire protection systems, fire alarms, addressable emergency systems, security systems, custom-made vehicles such as fire trucks, ambulances, mobile hospitals and airport rescue firefighting vehicles (ARFF).

With the most talented and dedicated employees from around the world, NAFFCO has over 2,000 passionate engineers and over 6.5 million square feet of manufacturing facilities. We are currently exporting to over 100 countries worldwide.

NAFFCO manufactures UL FM, BSI & Global Mark approved products in our facility in consistent with International Standards UL-DQS, BSI certifies for the Quality Management System against ISO 9001. Our Environmental (ISO 1400) & Occupational Health & Safety (ISO 45001) Management Systems have been certified by UL-DQS. Our Trucks & Vehicles division has been assessed & Certified for Quality Management System requirement for Aviation, Space & Defense organization (AS 9100) by UL-DQS.

Our success is driven by our passion to protect; our vision is to become the world's number one provider of innovative solutions in protecting life, environment and property.







# MANUFACTURING

NAFFCO manufacturing facilities has the latest technology, state-of-the-art machines (CNC machines, hydraulic shearing and bending machines, all types of welding machines - MIG, TIG, ARC etc.) that enable us to meet the needs of any production requirement.

NAFFCO has the ability to introduce the latest technological systems & equipment in the fire safety field. Our engineers and technicians are well qualified & experienced in producing quality products. The department is equipped with full-fledged testing facilities to test the equipment as per NFPA, EN, ICAO, KKK and Civil Defense standards & requirements, and to meet the customers specifications.

Considering the above facilities and excellence in engineering capabilities, NAFFCO can meet any challenges to produce bulk quantities of fire safety materials.

NAFFCO has a dedicated state-of-the-art manufacturing facility for Fire Rated Doors.

With one of the highest production capacities in the industry, NAFFCO is positioned as a leader in the door and hardware market. NAFFCO's strength is in the reliability it can offer. With one of the highest numbers of sophisticated machinery and expert professionals, NAFFCO ensures compliance to its commitments and client requirements.

Our strict zero tolerance quality program guarantees client satisfaction in each and every delivered unit, making the NAFFCO brand synonymous with quality.

NAFFCO Fire Rated Doors are designed and manufactured in accordance with internationally recognized standards such as NFPA 80, SDI, ANSI/UL 10B, ANSI/UL 10C, BS 476 Part 22, CAN/ULC-S104, NAMM HMMA, AHJ & NFPA 252.





# FIRE DOOR PRODUCT SCHEDULE

Sr	Description	File No.	Model No	Fire Rating (Hr)	Manufacturer	Certification	Remarks
1	Door Leaf	R25075	NF-HSD	120 Min	NAFFCO	UL	
2	Door Frame	R25545	NF-SF	180 Min	NAFFCO	UL	
3	Vision Glass	R38488	FireLite NT	120 min	NAFFCO	UL	
4	Hinges	R40089	SZi-454034	180 Min	ZILLY	UL	
5	Horizontal Push Base W/ External Lever Trim	R40045	SZi-ED8500 + SZi-ESC-00-550	180 Min	ZILLY	UL	
6	Vertical Push Bar	R40045	SZi-ED8600	180 Min	ZILLY	UL	
7	Mortise Lock	R40043	SZi-ML Series	180 Min	ZILLY	UL	
8	Door Closer	R39940	SZi-DCF8915BC	180 Min	ZILLY	UL	
9	Door Coordinator	R40041	SZi-DCS60XY Series	180 Min	ZILLY	UL	
10	Manual Flush Bolt	R40042	SZi-FB100	180 Min	ZILLY	UL	
11	Automatic Flush Bolt	R40044	SZi-FB620M	180 Min	ZILLY	UL	
12	Automatic Drop Seal (Door Bottom)	R40327	SZiDB311	180 Min	ZILLY	UL	
13	Weather Strip/ Smoke Seal	R40327	SZi-612	180 Min	ZILLY	UL	
14	Magnetic Door Holder	R40023	SZi-MH1000F/ SZi-D990XX	180 Min	ZILLY	UL	

NAFFCO STEEL [ SWINGING TYPE ]  
FIRE RATED DOOR ASSEMBLIES [ DOOR LEAF + FRAME ]



**NAFFCO STEEL [ SWINGING TYPE ]  
 FIRE RATED DOOR ASSEMBLIES [ DOOR LEAF + FRAME ]**

T	T	T
A	A	ANDARD
A	A	AB R RAN
N	R	RD RA B
N	R	RD R RA
FRAME SHEET THICKNESS	-	1.2MM
DOOR SHEET THICKNESS	-	1.2MM
BRAND	-	NAFFCO
FRAME PROFILE	-	SINGLE [OR] DOUBLE RABBET
FRAME CONSTRUCTION	-	WELDED/KNOCKDOWN depending on Size/Client's requirement
DOOR LEAF THICKNESS	-	45 mm
LEAF CONSTRUCTION	-	MECHANICAL INTERLOCK WITH VISIBLE SEAM
TOP AND BOTTOM CHANNEL	-	INVERTED TYPE
DOOR LEAF INFILL	-	IMPREGNATED KRAFT PAPER HONEYCOMB
OTHER DEISGN/CONSTRUCTION DETAILS	-	AS PER THE TESTED DOORS UNDER UL stds
DOOR LEAF / FRAME BASE MATERIAL	-	STEEL
FINISH	-	TGIC POLYESTER POWDER COATED – NON METALLIC – APPROX. 50% GLOSS
STANDARD AVAILABLE COLOURS	-	<b>RAL 3020; RAL 3000; RAL 5015</b>
OTHER STANDARD AVAILABLE COLOURS	-	RAL 9010; RAL 9001; RAL 9006; RAL 7032; RAL 7038; RAL 7044; RAL 8003; RAL 8028; RAL 8025; RAL 1013
HARDWARE AND ACCESSORIES	-	TO BE UL LISTED

The Following kind of Label is affixed on the Door Leaf showing the Fire Integrity of the Entire Door – Assembly. The Labels and the usage of these Labels are audited and controlled by UL itself. Apart from the 2 Labels shown below, NAFFCO is also allowed to affix one more kind of label which is used for Doors with Mortice Lockset.

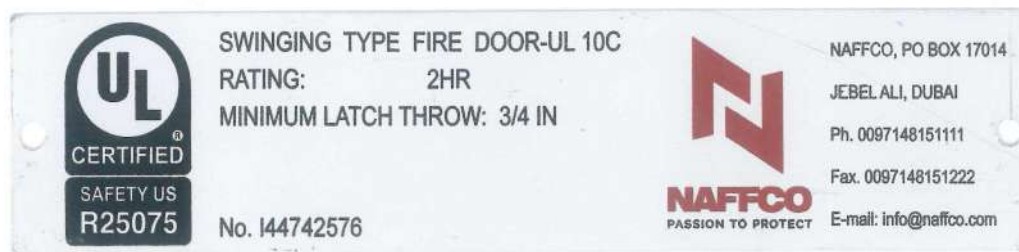


Refer the first label in the next page for one more type of Label affixed on the Door Leaf



**NAFFCO STEEL [ SWINGING TYPE ]  
FIRE RATED DOOR ASSEMBLIES [ DOOR LEAF + FRAME ]**

The Following kind of Label is affixed on the Door Leaf showing the UL File Number associated with the testing/certification of the Door Assembly.



The Following kind of Label is affixed on the Door Frame confirming the listing of the Door Frame under UL. The Label on the Door Frame does not have any Fire rating mentioned on it. All these Labels are audited and controlled by UL itself.



# CERTIFICATE OF COMPLIANCE

**Certificate Number** 20121031-R25075  
**Report Reference** R25075-20121031  
**Issue Date** 2012-OCTOBER-31

**Issued to:** NATIONAL FIRE FIGHTING MFG FZ CO  
PO BOX 17014  
JEBEL ALI FREE ZONE  
DUBAI UNITED ARAB EMIRATES

**This is to certify that  
representative samples of**

SWINGING-TYPE FIRE DOORS;  
SWINGING-TYPE FIRE DOORS, POSITIVE-PRESSURE  
TESTED


A single and a pair of Swinging-type fire door assembly of  
the hollow metal type with honeycomb construction,  
intended for 2h (where applicable), 1-1/2h, 1h and 3/4h  
locations for use in masonry constructions.

Have been investigated by UL in accordance with the  
Standard(s) indicated on this Certificate.

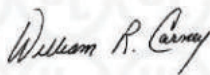
**Standard(s) for Safety:** ANSI/UL 10C, Positive Pressure Fire Tests of Door  
Assemblies

**Additional Information:** See the UL Online Certifications Directory at  
[www.ul.com/database](http://www.ul.com/database) for additional information

Only those products bearing the UL Classification Mark should be considered as being covered by  
UL's Classification and Follow-Up Service.

The UL Classification Mark includes: UL in a circle: with the word "CLASSIFIED"  (as shown); a control  
number (may be alphanumeric) assigned by UL; a statement to indicate the extent of UL's evaluation of  
the product; and the product category name (product identity) as indicated in the appropriate UL  
Directory.

Look for the UL Classification Mark on the product.



William R. Carney, Director, North American Certification Programs  
UL LLC

Any information and documentation involving UL Mark services are provided on behalf of UL LLC (UL) or any authorized licensee of UL. For questions, please  
contact a local UL Customer Service Representative at [www.ul.com/contactus](http://www.ul.com/contactus)







# GSYX.R25075 - Swinging-type Fire Doors

## Swinging-type Fire Doors

**NATIONAL FIRE FIGHTING MFG FZ CO**

R25075

PO BOX 17014

JEBEL ALI FREE ZONE

DUBAI, United Arab Emirates

Swinging doors may be provided as follows:

Max Rating	Opening Type	Composite Type	Hollow Metal
1 Hr	Single	X	—
	Single Point Lock		
3 Hr	Single or Pair With Astragal	X	—
	Single Point Lock/Flush Bolts		
3 Hr	Double Egress With Astragal	X	—
	Vertical Rod/Vertical Rod		
	Fire Exit Hardware		
1-1/2 Hr	Door With Automatic	X	—
	Louver		
1-1/2 Hr	Single or Pair Without Astragal	X	—
	Rim, Mortise/Vertical Rod,		
	Vertical Rod/Vertical Rod		
	Fire Exit Hardware		
1-1/2 Hr	Double Egress w/o	X	—
	Astragal Vertical		
	Rod/Vertical Rod		
	Fire Exit Hardware		
3 Hr	650 F Temp Rise Door	—	—
3 Hr	Single/Pair With Astragal	X	—
	Rim, Mortise/Vertical Rod		
	Fire Exit Hardware		
1-1/2 Hr	Dutch Door	X	—

1-1/2 Hr	Pair With Astragal	—	X
	Fire Exit Hardware		
	250° Temperature Rise		
3 Hr	Single	—	X
	Fire Exit Hardware		
	250° Temperature Rise		
2 Hr	Single or Pair with Astragal	X	—
	Single Point /Mortise/Vertical Rod/Flush Bolts		
	Rim, Mortise/Vertical Rod/Flush Bolts		
	Door with Automatic Louver		
	Max 100 sq in. Glazing		
	450° F Temperature Rise		
2 Hr	Single or Pair with astragal	—	X
	Rim, Mortise/Vertical Rod/Flush Bolts		
	Door with Automatic Louver		
	Max 100 sq in. Glazing		
1 Hr	Single Wood Door, without astragal	X	—
	Single point latch		
1 Hr	Single Wood Covered Composite Door, without astragal	X	—
	Single point latch		
3 Hr	Single or Pair with Astragal	—	X
	Single Point /Mortise/Vertical Rod/Flush Bolts		
	Rim, Mortise/Vertical Rod/Flush Bolts		
	Max 100 sq in. Glazing		
	250° F Temperature Rise		
2 Hr	Pair with Astragal	—	X
	Single Point /Mortise/Vertical Rod/Flush Bolts		
	Rim, Mortise/Vertical Rod/Flush Bolts		
	Max 100 sq in. Glazing		
	450° F Temperature Rise		

2 Hr	EAGLEpro - Double Egress with Astragal		X
	Vertical Rod/Vertical Rod		
	Max 100 sq in. Glazing		

Trademark and/or Tradename: **NAFFCO** 

Last Updated on 2022-01-19

The appearance of a company's name or product in this database does not in itself assure that products so identified have been manufactured under UL's Follow-Up Service. Only those products bearing the UL Mark should be considered to be Certified and covered under UL's Follow-Up Service. Always look for the Mark on the product.

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# Certificate of Compliance

Certificate Number 20111031-R25545  
Report Reference R25545 -20070820  
Issue Date 2011-October-31

Page 1 of 1



*Issued to:* NATIONAL FIRE FIGHTING MFG FZ CO  
PO BOX 17014, JEBEL ALI FREE ZONE  
DUBAI UNITED ARAB EMIRATES

*This is to certify that representative samples of* **FIRE DOOR AND WINDOW FRAMES**


Fire-door frames of the single pressed steel type for walls at least 6 cm thick.

*Have been investigated by Underwriters Laboratories in accordance with the Standard(s) indicated on this Certificate.*

*Standard(s) for Safety:* Fire Tests of Door Assemblies / Positive Pressure Fire Tests of Door Assemblies - UL 10B and/or UL 10C

*Additional Information:* See UL On-line Certification Directory at [WWW.UL.COM](http://WWW.UL.COM) for additional information.

**Only those products bearing the UL Listing Mark should be considered as being covered by UL's Listing and Follow-Up Service.**

The UL Listing Mark generally includes the following elements: the symbol UL in a circle:  with the word "LISTED"; a control number (may be alphanumeric) assigned by UL; and the product category name (product identifier) as indicated in the appropriate UL Directory.

**Look for the UL Listing Mark on the product**

**William R. Carney**  
**Director, North American Certification Programs**

Underwriters Laboratories Inc.

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For questions, please contact a local UL Customer Service Representative at <http://www.ul.com/global/eng/pages/corporate/contactus>

# GTVV.R25545 - Fire Door and Fire Window Frames

## Fire Door and Fire Window Frames

### NATIONAL FIRE FIGHTING MFG FZ CO

PO BOX 17014  
JEBEL ALI FREE ZONE  
DUBAI, United Arab Emirates

R25545

Fire door frames for either a pair or single swing doors for walls at least 4 in. (100.6 mm) thick.

Designer Series Type Fire Window Frame assemblies intended for 20, 45, 60 and 90 min locations.

#### Door Frames for use as a component in fire door assemblies that meet the requirements of UL 10C:

Three-sided and four-sided steel frame without transoms (single swing and pairs and double egress pairs\*). These frames are also suitable for use in smoke door applications when used with Classified Swinging Type Fire Doors, Positive Pressure Tested (GSZN) bearing the "S" mark on the Classification Mark and Category H Smoke and Draft Control Gasketing. See Gasketing Materials for Fire Doors, Positive Pressure Tested (GVYI) for Listings of Category H Smoke and Draft Control Gaskets.

Steel frames with lights. Requires glazing materials and glazing compound Classified as components in fire door assemblies complying with UL 10C. See Glazing Materials (KCMZ) for a list of glazing materials and Miscellaneous Fire Doors Accessories, Positive Pressure Tested (GVUY) for a list of glazing compounds.

Category C transom panel frames with transom bars.

\* Double egress should be limited to 1-1/2 hours or 2 hours (where applicable)

#### Door Frames for use as a component in fire door assemblies that meet the requirements of UL 10B (neutral pressure):

Three-sided and four-sided frames (single swing, pairs and double egress pairs).

Frames with lights. Requires glazing materials Classified as components in fire door assemblies complying with UL 10B and/or UL 10C. See Glazing Materials (KCMZ) for a list of glazing materials.

Transom panel frames with transom bars.

#### Window Frames for use as a component in fire window assemblies that meet the requirements of UL9 (neutral pressure):

Four-sided steel frames with a maximum size of 109 in. in width and 120 in. in height, fire rated up to and including 3/4 hr. Requires glazing materials Classified as components in fire window assemblies complying with UL 9. See Glazing Materials (KCMZ) for a list of glazing materials.

Four sided steel frames, designated Fireframes SG Curtainwall Systems and Fireframes Aluminum Series, fire rated up to and including 3/4 hr.

Trademark and/or Tradename: **NAFFCO** 

Last Updated on 2022-01-19

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# FireLite<sup>®</sup>NT



## FIRE-RATED, SAFETY-RATED GLASS CERAMIC MADE WITH SURFACE APPLIED FILM

FireLite<sup>®</sup> NT, supplied by NAFFCO, is a 3/16" (5 mm) thick fire-rated and impact safety-rated glazing material, composed of FireLite and surface-applied fire-rated film. It is listed for use in doors, sidelites, transoms and borrowed lites with fire rating requirements ranging from 20 minutes to 3 hours. The FireLite family of products now feature ultraHD<sup>®</sup> Technology for superior color and surface quality.



### FEATURES

- Now with ultraHD<sup>®</sup> Technology for improved surface quality, clarity and color
- FireLite<sup>®</sup> NT, supplied by NAFFCO, is comparable to alternative fire-rated ceramics that are marketed as having a "Premium" finish
- Fire-rated for up to 3 hours with required hose stream test
- Impact safety-rated—meets ANSI Z97.1 and CPSC 16 CFR1201 (Cat. I and II)
- Glass ceramic with high performance surface-applied approved fire-rated film
- Clear and wireless
- Fits in standard fire-rated frames
- Withstands thermal shock
- Larger Sizes available
- Protects from fire and safety on both sides of glass
- May be lightly Sandblasted (or) etched on one side without affecting the Fire Rating
- Passes positive pressure test standards UL 10C, UBC 7-2 and UBC 7-4
- 3-years limited warranty

### LISTINGS

Classified and labeled by Underwriters Laboratories, Inc.<sup>®</sup> and Underwriters Laboratories of Canada. UL File number for labeled fire-rated glass is R38488. Tested in accordance with UL 9, UL 10B, UL 10C, ASTM E2074, CSFM 43.7, NFPA 80, NFPA 252, NFPA 257, UBC 43.2, UBC 43.4, UBC 7-2, UBC 7-4, CAN4 S-104, CAN4 S-106.

### GENERAL CHARACTERISTICS

<b>THICKNESS:</b>	3/16" (5 mm) overall
<b>WEIGHT:</b>	2.4 lb / ft <sup>2</sup> (11.72 kg / m <sup>2</sup> )
<b>APPROX. VISIBLE TRANSMISSION:</b>	88%
<b>APPROX. VISIBLE REFLECTION:</b>	9%
<b>HARDNESS (VICKER'S SCALE):</b>	700
<b>FIRE RATING:</b>	20 minutes to 3 hours
<b>IMPACT SAFETY RATING:</b>	Meets ANSI Z97.1 and CPSC 16CFR1201 (Cat. I and II)



In line with NAFFCO policy for continuous product development, NAFFCO has the right to change specifications without prior notice.





RATING	ASSEMBLY	MAX. EXPOSED AREA	MAX. WIDTH OF EXPOSED GLAZING	OR	MAX. HEIGHT OF EXPOSED GLAZING
20 to 60 min.	DOORS (non-temp rise)	3,204 in <sup>2</sup> / 22.25 ft <sup>2</sup> (2.07 m <sup>2</sup> )	36" (914 mm)		89" (2,260 mm)
	DOORS (temp rise)	100 in <sup>2</sup> / 0.69 ft <sup>2</sup> (.06 m <sup>2</sup> )	12" (304 mm)		33" (838 mm)
	OTHER THAN DOORS	3,325 in <sup>2</sup> / 23.09 ft <sup>2</sup> (2.15 m <sup>2</sup> )	95" (2,413 mm)		95" (2,413 mm)
90 min.	DOORS (non-temp rise)	2,034 in <sup>2</sup> / 14.13 ft <sup>2</sup> (1.31 m <sup>2</sup> )	36" (914 mm)		56-1/2" (1,435 mm)
	DOORS (temp rise)	100 in <sup>2</sup> / 0.69 ft <sup>2</sup> (.06 m <sup>2</sup> )	12" (304 mm)		33" (838 mm)
	OTHER THAN DOORS	2,627 in <sup>2</sup> / 18.24 ft <sup>2</sup> (1.69 m <sup>2</sup> )	56-1/2" (1,435 mm)		56-1/2" (1,435 mm)
3 hour	DOORS	100 in <sup>2</sup> / 0.69 ft <sup>2</sup> (.06 m <sup>2</sup> )	12" (304 mm)		33" (838 mm)

Check with frame manufacturer for maximum tested glass sizes and required stop height.

**Note:** Individual lite sizes cannot exceed "Max. Exposed Area" shown above.

**Note:** This product is not a barrier to radiant heat, as it does not meet test standards ASTM E-119 or UL 263.

<b>SURFACE FINISH</b>	Standard	Premium	Obscure
<b>MAX. SHEET SIZE</b>	49" x 82" (1.24 m x 2.08 m)	48" x 96" (1.21 m x 2.43 m)	36" x 96" (.91 m x 2.43 m)

## LABELING

Each piece of glass shall be permanently labeled with the **FireLite NT** logo, **NAFFCO** logo, **UL** logo and fire rating.

## INSTALLATION

**FireLite NT**, supplied by **NAFFCO**, shall be glazed into the appropriate fire-rated framing with an approved glazing compound as supplied by the installer. Both the Vision Panel Frame and the Glazing compound should be listed/classified/certified/tested for use with this Glass and the Door/Framing assembly to which it is to be fitted with. The Area and Size of the Exposed portion of the Glass shall be limited either to the above mentioned Sizes (or) Door Manufacturer's listing where the Door manufacturer's listing takes precedence over the above mentioned sizes. For 90 minute ratings that exceed 1,393 in<sup>2</sup> (.8987 m<sup>2</sup>), FireLite NT, supplied by NAFFCO, shall be glazed with fire-rated glazing tape as supplied by the Glass Supplier.

Inspect each piece of FireLite NT, supplied by NAFFCO, immediately before installation and eliminate any with observable edge damage or face imperfections. As with any glass produced by the "roll out" method, individual pieces of FireLite NT, supplied by NAFFCO, may contain minimal variations in thickness. Occasionally, process marks and small occlusions or seeds (bubbles, knots or crystals) may be apparent. However, since they do not generally impair the transparency or affect the technical performance of the glass, they do not represent cause for rejection.

## STORAGE & HANDLING

**FireLite NT**, supplied by **NAFFCO**, must be handled with care during transportation, storage, inspection and installation. Store in a dry place.

## FAMILY OF PRODUCTS

NAFFCO offers a complete family of products for all your fire-rated glazing needs, ranging from 20 minute to 3 hour applications.

Kindly contact NAFFCO for more details.

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# CERTIFICATE OF COMPLIANCE

**Certificate Number** 20150821-R38488  
**Report Reference** R38488-20150818  
**Issue Date** 2015-AUGUST-21

**Issued to:** NATIONAL FIRE FIGHTING MFG FZ CO  
PO BOX 17014, JEBEL ALI FREE ZONE,  
DUBAI UNITED ARAB EMIRATES

**This is to certify that representative samples of** FIRE-PROTECTION-RATED GLAZING MATERIALS  
Ceramic type glass glazing material. The glass is clear, not tinted. Firelite, Firelite NT, FireLite Plus, FireLite IGU, WireLite and WireLite NT glazing material.

Have been investigated by UL in accordance with the Standard(s) indicated on this Certificate.

**Standard(s) for Safety:** UL 9 - Fire Tests of Window Assemblies  
UL 10B - Fire Tests of Door Assemblies  
UL 10C - Positive Pressure Fire Tests of Door Assemblies  
ULC/CAN4-S106 - Standard Method for Fire Tests of Window and Glass Block Assemblies  
ULC/CAN4-S104 - Standard Method for Fire Tests of Door Assemblies

**Additional Information:** See the UL Online Certifications Directory at [www.ul.com/database](http://www.ul.com/database) for additional information

Only those products bearing the UL Certification Mark should be considered as being covered by UL's Certification and Follow-Up Service.

Look for the UL Certification Mark on the product.



Bruce Mahrenholz, Director North American Certification Program

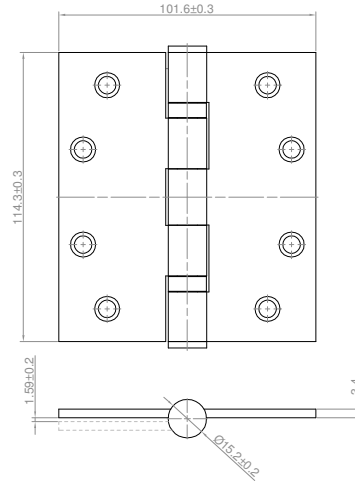
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## SZi-454034

### 5 Knuckle, 2 Ball Bearing Full Mortise Hinge



#### Features

- Recommended for medium frequency usage
- Made with two ball bearing assemblies
- Recommended for use with a door closer
- Fasteners for steel doors as standard and for wooden doors as option



#### Certifications

- Certified to ANSI/BHMA A156.1 for performance standards
- Meets ANSI/BHMA 156.7 for template hinge dimensions
- UL Listed, 3-hour fire doors

Model	Dimensions		Gauge		Finish	Grade
	H x W (inches)	H x W (mm)	inches	mm		
SZi-454034	4.5" x 4"	114 x 102	0.134"	3.4	US32D	316 304



# CERTIFICATE OF COMPLIANCE

**Certificate Number** 20220131-R40089  
**Report Reference** R40089  
**Issue Date** 2022-January-31

**Issued to:** SHIELD FIRE SAFETY & SECURITY LTD  
Unit 3, Endeavour Dr  
Basildon, SS14 3WF United Kingdom

**This certificate confirms that  
representative samples of**

Door Hinges

Have been investigated by UL in accordance with the  
Standard(s) indicated on this Certificate.

**Standard(s) for Safety:** ANSI/UL 10C, "Positive Pressure Fire Tests of Door  
Assemblies."

**Additional Information:** See the UL Online Certifications Directory at  
<https://iq.ulprospector.com> for additional information.

This *Certificate of Compliance* does not provide authorization to apply the UL Mark. Only the UL Follow-Up Services Procedure provides authorization to apply the UL Mark.

Only those products bearing the UL Mark should be considered as being UL Certified and covered under UL's Follow-Up Services.

Look for the UL Certification Mark on the product.



Bruce Mahrenholz, Director North American Certification Program  
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# CERTIFICATE OF COMPLIANCE

**Certificate Number** 20220131-R40089  
**Report Reference** R40089  
**Issue Date** 2022-January-31

This is to certify that representative samples of the product as specified on this certificate were tested according to the current UL requirements.

Ball bearing type hinges for use on swinging type fire doors rated up to and including 3 hours.

Series SZi-403030, SZi-403530, SZi-404030, SZi-454030, SZi-454034, SZi-454046, SZi-454534, SZi-454546, SZi-504546, SZi-505046, SZi-604540, SZi-EFF.

Series SZi-404034, SZi-454530, SZi-503030, SZi-503530, SZi-504030, SZi-504034, SZi-504534, SZi-504048, SZi-504548.

Aluminum continuous door hinges, Models SZi-G001, SZi-G002, SZi-G003, SZi-G004, SZi-G005, SZi-G006, SZi-G007, SZi-G008, SZi-G009, SZi-G010, SZi-G011 each model with 83 inch and 95 inch length options, also meets the requirements of UL 10C, when installed on swinging type fire doors of the hollow metal, sheet metal and steel covered composite type rated up to and including 3 hours, wood composite rated up to and including 1-1/2 hours and wood core rated up to 20 minutes when supplied with interlocking pins.

Trademark and/or Tradename:

**ZILLY**

**ZILLY**

DOOR & WINDOW  
HARDWARES



Bruce Mahrenholz, Director North American Certification Program  
UL LLC

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## SZi-ED8500 Series

### Fire Rated Rim Exit Device



### Technical Data & Characteristics

#### Specifications

- All exit devices shall be of touch bar design with smooth operation and be operative over 2 /3 of the door's clear opening width.
- All exit devices must be listed under "Panic Hardware" in the Accident Equipment List of Underwriter's Laboratories, Inc. Where labeled doors are used as exits, they must be equipped with labeled Fire Exit Hardware and UL 10C, UBC 7-2-1997 codes.
- All exit devices shall be chassis mounted unit construction.

#### Certification

- ANSI A165.3, Grade 1
- UL Listed for Panic and UL10C, UBC 7-2-1997 codes
- UL Listed for Fire Exit Hardware 3 Hours.
- (A) Label rating on pairs of doors up to 8'0" x 8'0" swinging in same or opposite directions.

#### Optional

- Available with different outside trim.
- Alarm kits available.
- Glass bead kits available
- Available in 48" width size, specify "L".
- Cylinder Dogging available complete devices only, not "kits".

#### Finishes

US3, US4, US10, US26, US32D, Aluminum, Duro, Gold.

#### Features

- Chassis mounted unit construction
- Minimum stile: 4-1 /2"
- Standard door thickness 1-3 /4"
- For All Doors up to 36"
- Material: Cap and rail are made of brass or Stainless Steel or Steel
- Mounting: Furnished with wood & machine screws
- Thru-bolts: Standard on fire rated devices
- Non Handed
- Latch Bolt: Stainless Steel 3 /4"

#### Dimensions

Touchbar height to finished floor	41" from floor
Touchbar projection	
Neutral	2-1 /2"
Depressed	1-3 /4"
Center case	8-1 /2" x 2-1 /2" x 2"
Device Length	
Standard	2'2" to 3"
Extra Long (L)	2'9" to 4"







## SZi-ESC550 Series

### Outside Trims - Escutcheon Levers for SZi-ED8500 Series

#### Features

- Non-handed, easy install with exit device.
- Easy operating lever handle allows convenient one hand operation.
- Finish US26D(626).
- Trim has 4 through-bolts to the device chassis directly for more security and durability. It fits 1-3 /4" (44mm) door standard. For 2" (51mm), 2-1 /4" (57mm), thick door or the shim-mounted exit device. specify the door thickness when ordering.
- Clutch freewheeling design, the lever rotates when the door is locked preventing excessive force from being applied to the horizontal lever. This design feature can decrease the lever to be broken or damaged.

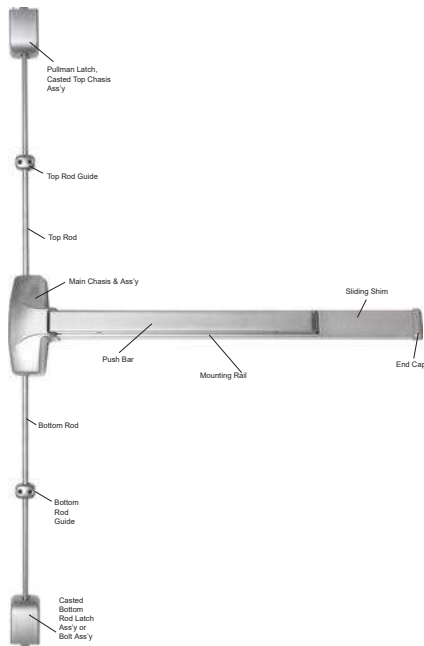
#### Models and Functions:

Operation Options	Key Locks & Unlocks Lever	Lever Always Active (No Cylinder)	Key Retracts Latchbolt (Rigid Lever)	Pull When Dogged (Rigid Lever)
(Dummy Trim is not recommended for fire device)				
Function	Classroom	Passage	Storeroom	Dummy
Trim Designation	Cylinder Escutcheon Lever	Blank Escutcheon Lever	Night Latch Escutcheon Lever	Dummy Escutcheon Lever
Model Number & Use	SZi-ESC00550	SZi-ESC30550	SZi-ESC40550	SZi-ESC05550
Escutcheon Plate Size	For Rim, Surface / Vertical Rod, LBR Exit Device Use			
ANSI Function	2 5/16" width x 8 1/2" length. Lever Length: 4 3/4". Fits and Covers 2 1/8" 161 cutout			
Cylinder Type	11-1 /4" Mortise	-	Rim	-

- When need to meet key requirement, the trims may receive cylinders from other manufacturers.
- Cylinder is not furnished standard. Specify cylinder type (RC - Regular Cylinder, IC - Interchangeable Core, NC - No cylinder) when the cylinder is required.

## SZi-ED8600 Series

### Fire Rated Vertical Rod Exit Device



#### Features

- Chassis mounted unit construction
- Minimum stile: 4-1/2"
- Standard door thickness 1-3/4"
- For All Doors up to 36"
- Material: Cap and rail are made of brass or Stainless Steel or Steel
- Mounting: Furnished with wood & machine screws
- Thru-bolts: Standard on fire rated devices
- Non Handed
- Latch Bolt: Stainless Steel 3/4"

#### Technical Data & Characteristics

##### Specifications

- All exit devices shall be of touch bar design with smooth operation and be operative over 2/3 of the door's clear opening width.
- All exit devices must be listed under "Panic Hardware" in the Accident Equipment List of Underwriter's Laboratories, Inc. Where labeled doors are used as exits, they must be equipped with labeled Fire Exit Hardware and UL 10C, UBC 7-2-1997 codes.
- All exit devices shall be chassis mounted unit construction.

##### Certification

- ANSI A165.3, Grade 1
- UL Listed for Panic and UL10C, UBC 7-2-1997 codes
- UL Listed for Fire Exit Hardware 3 Hours.
- (A) Label rating on paris of doors up to 8'0" x 8'0" swinging in same or opposite directions.

##### Optional

- Available with different outside trim.
- Alarm kits available.
- Glass bead kits available
- Available in 48" width size, specify "L".
- Cylinder Dogging available complete devices only, not "kits".

##### Finishes

US3, US4, US10, US26, US32D, Aluminum, Duro, Gold.

Dimensions	
Touchbar height to finished floor	41" from floor
Touchbar projection	
Neutral	2-1/2"
Depressed	1-3/4"
Center case	8-1/2" x 2-1/2" x 2"
Device Length	
Standard	2'2" to 3"
Extra Long (L)	2'9" to 4"
Top and Bottom Latch Case	3-15/16" x 2-1/8" x 1-3/8"
Fire Rated Bottom Latch Case	3-15/16" x 2-11/16" x 2-1/6"
Top and Bottom Rod Length Standard	Top Rod 43-1/4" / Bottom Rod 37-3/4"
Top and Bottom Rod 48" x 96"	Top Rod 56-1/6" / Bottom Rod 37-3/4"

# CERTIFICATE OF COMPLIANCE

**Certificate Number** 20220131-R40045  
**Report Reference** R40045  
**Issue Date** 2022-January-31

**Issued to:** SHIELD FIRE SAFETY & SECURITY LTD  
Unit 3, Endeavour Dr  
Basildon, SS14 3WF United Kingdom

**This certificate confirms that representative samples of** Fire-exit Hardware

Have been investigated by UL in accordance with the Standard(s) indicated on this Certificate.

**Standard(s) for Safety:** ANSI/UL 10C, "Positive Pressure Fire Tests of Door  
ANSI/UL 305, "Panic Hardware"

**Additional Information:** See the UL Online Certifications Directory at <https://iq.ulprospector.com> for additional information.

This *Certificate of Compliance* does not provide authorization to apply the UL Mark. Only the UL Follow-Up Services Procedure provides authorization to apply the UL Mark.

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Look for the UL Certification Mark on the product.

See addendum page 2.



Bruce Mahrenholz, Director North American Certification Program  
UL LLC

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# CERTIFICATE OF COMPLIANCE

**Certificate Number** 20220131-R40045  
**Report Reference** R40045  
**Issue Date** 2022-January-31

This is to certify that representative samples of the product as specified on this certificate were tested according to the current UL requirements.

Concealed vertical rod devices with auxiliary fire latch for LBR devices Model(s) SZi-ED8750F

Concealed vertical rod devices with auxiliary fire latch for LBR devices, for use on doors not exceeding 10 ft. in height Model(s) SZi-ED8550F, SZi-ED8650F

Rim types Model(s) SZi-ED8000#, SZi-ED8500#

Single point mortise lock devices Model(s) SZi-ED8620F, SZi-ED8820F

Single point rim type latches Model(s) SZi-ED8610F, SZi-ED8710F, SZi-ED8810F

Surface mounted vertical rod devices with auxiliary fire latch for LBR devices Model(s) SZi-ED8530F, SZi-ED8730F

Surface mounted vertical rod devices with auxiliary fire latch for LBR devices, for use on doors not exceeding 10 ft. in height Model(s) SZi-ED8630F, SZi-ED8830F

Surface-mounted vertical rod types Model(s) SZi-ED8100#, SZi-ED8600#

Single point rim type latches with the Series 6000 mullions Model(s) SZi-ED8510F

# - Additionally investigated to Sec. 11B-309.4 of the California Building Code.

Trademark and/or Tradename: **ZILLY** DOOR & WINDOW  
HARDWARES



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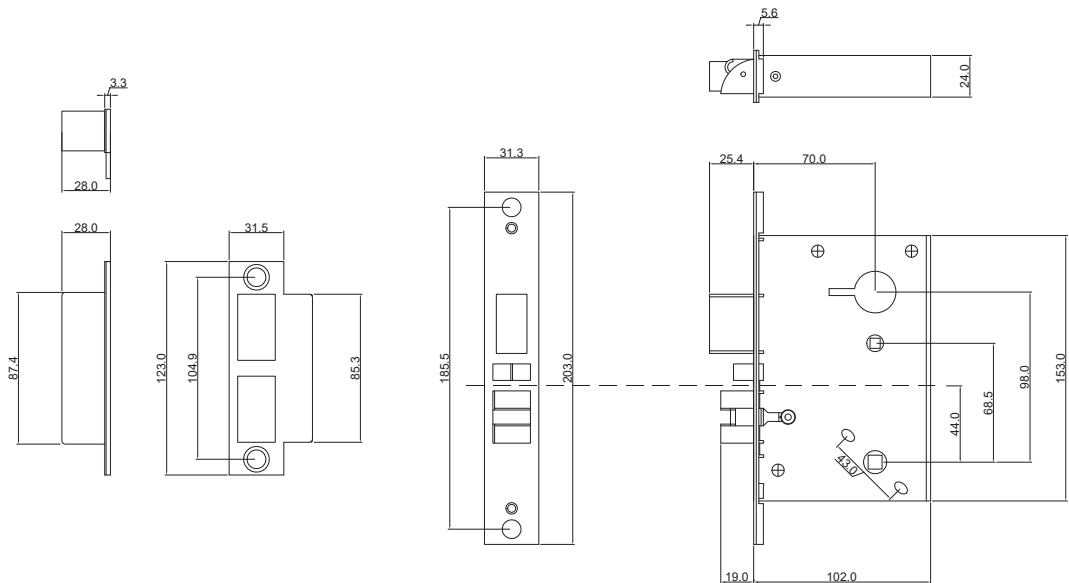
## SZi-ML 2433

### Heavy Duty Mortise Locks



Door Prep	1-3/4" [44.5mm] standard thickness. If the door thickness is greater than 45mm, customer must specify thickness.
Backset	2-3/4" [70mm]
Lock Case	Heavy duty wrought steel, zinc dichromate plated.
Cylinder	lever to cylinder is 3-7/32" [203mm x 31.3mm]; ANSI Standard A115.1
Strike	Brass or Stainless Steel; ANSI Standard A115.1; curve lip with dust box
Deadbolt	1" [25.4mm] throw; hardened stainless steel.
Latchbolt	3/4" [19mm] throw; one-piece stainless steel with anti friction reversible tongue
Auxiliary Latch	Stainless Steel, non-handed
Toggle Button	High rust-resistant chrome plated zinc alloy
Masterkeying	Can be masterkeyed or grand masterkeyed, construction keying available
Finishes	US32D (Standard) Options: US26D, US3, US10B, US4
ANSI / BHMA	A1 56.2 Grade 1.
UL/CUL	UL Listed

### Dimensions



# CERTIFICATE OF COMPLIANCE

**Certificate Number** 20220131-R40043  
**Report Reference** R40043  
**Issue Date** 2022-January-31

**Issued to:** SHIELD FIRE SAFETY & SECURITY LTD  
Unit 3, Endeavour Dr  
Basildon, SS14 3WF United Kingdom

**This certificate confirms that representative samples of** Single-point Locks and Latches

Have been investigated by UL in accordance with the Standard(s) indicated on this Certificate.

**Standard(s) for Safety:** ANSI/UL 10C, "Positive Pressure Fire Tests of Door Assemblies."

**Additional Information:** See the UL Online Certifications Directory at <https://iq.ulprospector.com> for additional information.

This *Certificate of Compliance* does not provide authorization to apply the UL Mark. Only the UL Follow-Up Services Procedure provides authorization to apply the UL Mark.

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# CERTIFICATE OF COMPLIANCE

**Certificate Number** 20220131-R40043  
**Report Reference** R40043  
**Issue Date** 2022-January-31

This is to certify that representative samples of the product as specified on this certificate were tested according to the current UL requirements.

Single point locks or latches of the mortise type with 3/4 in. latch bolts, SZi-ML Series.

Cylindrical Type, Series SZi-4300 Series, SZi-4400 Series and SZi-4500 Series, with a 1/2 in. latch bolt, used on fire doors rated up to and including 3 h.

Cylindrical Type, SZi-0A1000 Series with a 1/2 in. latch bolt, used on fire doors rated up to and including 3 h.

Cylindrical Type, SZi-01D4A1 Series and SZi-01E4A1 Series interconnected lock assembly, with a 1/2 in. latch bolt, used on fire doors rated up to and including 3 h.

Tubular type, Series SZi-6713 Series, SZi-6712 Series and SZi-6711 Series (Entrance lock, Privacy lock, Passage Lock, Storeroom Lock, Classroom lock, Double cylinder lock, Connecting lock).

Cylindrical Type, SZi-4500 Series, with a 3/4 in. latch bolt.

Trademark and/or Tradename:  Zilly,  DOOR & WINDOW HARDWARES



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## SZi-DCF8900 Series

### Door Closer

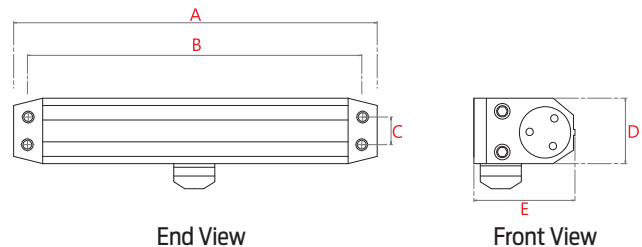


#### Specification

- ANSI/BHMA 156.4 Grade 1 Certified.
- UL and cUL listed, UL 10C 3-hour fire rated.
- Cast Iron body.
- Standard Backcheck function and self reaming and tapping screws.
- All weather fluid, non-handed; optional plastic cover.
- Closer to Meet ADA requirements;
- Using for regular installation, top jamb installation and parallel arm installation.
- Available finish: Aluminum, Silver, Bronze.
- Full plastic cover supplied as standard
- Metal cover 630 finish (Optional)

#### Dimensions

SZi-DCF1600 - Dimensions	
A. Length of the closer body	9-3/4" (248mm)
B. Horizontal Mounting Holes	9-1/16" (230mm)
C. Vertical Mounting Holes	3/4" (19mm)
D. Closer body Height	1-3/16" (46.5mm)
E. Projection from the door	2-13/16" (72mm)



#### Closer Selection Data

Model	Size	Applicable Door Size (Width)			Application Door Weight
		Interior Door	Exterior Door		
			Swing out	Swing in	
SZi-DCF8914BC	1-4	32"-48" (0.81-1.22m)	28"-42" (0.71-1.07m)	24"-36" (0.61-0.91m)	33-87Lbs. (15-85kgs)
SZi-DCF8915BC	1-5	32"-54" (0.81-1.37m)	25"-48" (0.71-1.22m)	24"-42" (0.61-1.07m)	33-264Lbs. (15-120kgs)
SZi-DCF8916BC	1-6	32"-58" (0.81-1.47m)	25"-52" (0.71-1.32m)	24"-48" (0.61-1.22m)	33-330Lbs. (15-150kgs)
SZi-DCF8925BC	2-5	36"-54" (0.91-1.37m)	32"-48" (0.81-1.22m)	28"-42" (0.71-1.07m)	66-264Lbs. (30-120kgs)
SZi-DCF8936BC	3-6	42"-58" (0.91-1.47m)	36"-52" (0.81-1.32m)	32"-48" (0.71-1.22m)	87-330Lbs. (60-150kgs)

ANSI Standard  
Door Closer

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**Arm Options and Accessories**

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Series	Model No.	Description
<b>SZi-DCF8900 Series</b>	SZi-F8900HOA	Forged hold open arm
	SZi-F8900FHOA	Friction type hold open arm
	SZi-F8900PHOA	Post type hold open arm
	SZi-F8900CVR	Full Plastic cover
	SZi-F8900NDP	Narrow drop plate for F8900
	SZi-F8900LDP	Large drop plate for F8900
	SZi-SNB	



# CERTIFICATE OF COMPLIANCE

**Certificate Number** 20220131-R39940  
**Report Reference** R39940  
**Issue Date** 2022-January-31

**Issued to:** SHIELD FIRE SAFETY & SECURITY LTD  
Unit 3, Endeavour Dr  
Basildon, SS14 3WF United Kingdom

**This certificate confirms that  
representative samples of**

SWINGING FIRE DOOR CLOSERS

Have been investigated by UL in accordance with the  
Standard(s) indicated on this Certificate.

**Standard(s) for Safety:**

ANSI/UL 10C, "Positive Pressure Fire Tests of Door  
Assemblies."

UL 228, "Door Closers-Holders, With or Without Integral  
Smoke Detectors."

**Additional Information:**

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See addendum page 2.



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# CERTIFICATE OF COMPLIANCE

**Certificate Number** 20220131-R39940  
**Report Reference** R39940  
**Issue Date** 2022-January-31

This is to certify that representative samples of the product as specified on this certificate were tested according to the current UL requirements.

Cam action concealed mounted type Model(s) SZi-DCC6000+

For self closing door closers, without hold-open feature, floor mounted type, size 2-4 Model(s) SZi-HD-75V

For self closing door closers, without hold-open feature, floor mounted type, size 3 Model(s) SZi-HD84

For self closing doors, without hold-open feature, cam action type, size 2-5 Model(s) SZi-DCC8000+

For self closing doors, without hold-open feature, concealed mounted type Model(s) SZi-DCF6203G+

For self closing doors, without hold-open feature, overhead concealed mounted type, size 2 Model(s) SZi-DCC1020+

For self closing doors, without hold-open feature, overhead concealed mounted type, size 2-3 Model(s) SZi-DCC2013+

For self closing doors, without hold-open feature, overhead concealed mounted type, size 2-4 Model(s) SZi-DCC2014+, SZi-DCF7325BC+

For self closing doors, without hold-open feature, overhead concealed mounted type, size 2-5 Model(s) SZi-DCC2035+

For self closing doors, without hold-open feature, overhead concealed mounted type, size 3 Model(s) SZi-DCC1030+

For self closing doors, without hold-open feature, overhead concealed mounted type, size 4 Model(s) SZi-DCC1040+

For self closing doors, without hold-open feature, overhead concealed mounted type, size 5 Model(s) SZi-DCC1050+

For self closing doors, without hold-open feature, surface mounted type Model(s) SZi-DCF1725BC+

For self closing doors, without hold-open feature, surface mounted type, size 2 Model(s) SZi-DCF8500+

For self closing doors, without hold-open feature, surface mounted type, size 2-4 Model(s) SZi-DCDCS1714+

For self closing doors, without hold-open feature, surface mounted type, size 2-5 Model(s) SZi-DCF8915BC+



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# CERTIFICATE OF COMPLIANCE

**Certificate Number** 20220131-R39940  
**Report Reference** R39940  
**Issue Date** 2022-January-31

For self closing doors, without hold-open feature, surface mounted type, size 2-6 Model(s) SZi-DCF1916BC+, SZi-DCF8300+, SZi-DCF8400+

For self closing doors, without hold-open feature, surface mounted type, size 3 Model(s) SZi-DCB3W+

+ - Also evaluated in accordance with Standard UL 10C, designed to be used with swinging type fire doors rated up to and including 3h.

Trademark and/or Tradename:

**ZILLY** DOOR & WINDOW  
HARDWARES



Bruce Mahrenholz, Director North American Certification Program  
UL LLC

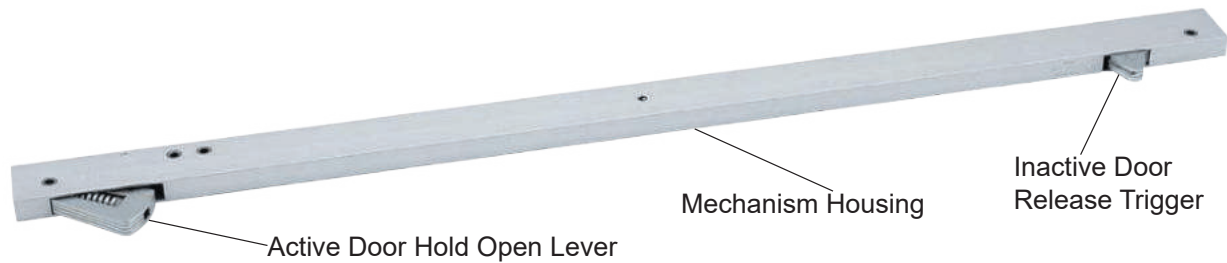
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## SZi-DCS60XY Series

### Bar Type with filler Bar Door Coordinator

Zilly SZi-DCS60XY Series Door Coordinator has two finishes, one is aluminum painted finish, the other one is dark bronze painted. Filler Bar is also painted to match the top frame and door that make both coordinator and Filler Bar almost invisible and appear to be an integral part of the frame opening.



### Use Description

The Door Coordinator is used on double doors when the inactive door needs to close before the active door which has equipped with or without overlapping astragal. It can prevent the active door from closing earlier than the inactive door, because the unit has an Active Door Hold open Lever & Inactive Door Release Trigger as shown in above Figure, this mechanism permits the active door to close and latch after the inactive door, thus both leaves can avoid collision each other.

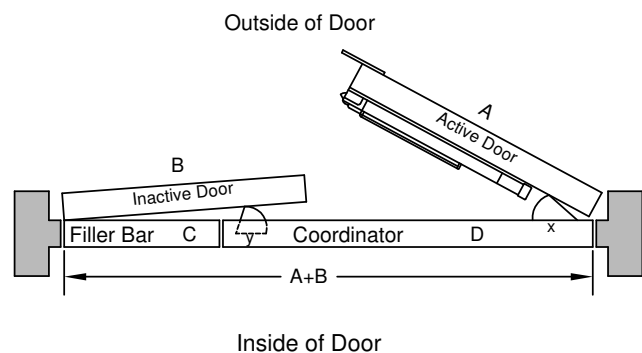
### Models and Sizes

The Door Coordinator has three lengths and four lengths of the Filler Bar for diverse door sizes use as shown in the table below.

Model Number	Coordinator Lengths
SZi-DCS6042	42"
SZi-DCS6052	52"
SZi-DCS6060	60"

Model Number	Filler Bar Lengths
SZi-C6012	12'
SZi-C6020	20"
SZi-C6036	36"
SZi-C6048	48"



As shown in above illustration, The Active Door Hold open Lever (x) holds the active door open until the Inactive Door Release Trigger (y) is released to its retracted position by closing. The door closers must be installed on the double doors without mullion when a coordinator is used.

### Coordinator and Filler Bar Sizes

Door Size (width)		Top Frame Opening Widths	Coordinator Length	Filler Bar Length
Active Leaf A	Active Leaf B	A+B	C	
2.5' (30")	2.5' (30")	60"	42"	18"
			52"	8"
3' (36")	3' (36")	72"	52"	20"
			60"	12"
3' (36")	4' (48")	96"	60"	36"
4' (48")	4.5' (54")	108"	60"	48"



# CERTIFICATE OF COMPLIANCE

**Certificate Number** 20220131-R40041  
**Report Reference** R40041  
**Issue Date** 2022-January-31

**Issued to:** SHIELD FIRE SAFETY & SECURITY LTD  
Unit 3, Endeavour Dr  
Basildon, SS14 3WF United Kingdom

**This certificate confirms that representative samples of** Fire Door Coordinators

Have been investigated by UL in accordance with the Standard(s) indicated on this Certificate.

**Standard(s) for Safety:** ANSI/UL 10B, "Fire Tests of Door Assemblies."  
ANSI/UL 10C, "Positive Pressure Fire Tests of Door Assemblies."

**Additional Information:** See the UL Online Certifications Directory at <https://iq.ulprospector.com> for additional information.

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See addendum page 2.



Bruce Mahrenholz, Director North American Certification Program  
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# CERTIFICATE OF COMPLIANCE

**Certificate Number** 20220131-R40041  
**Report Reference** R40041  
**Issue Date** 2022-January-31

This is to certify that representative samples of the product as specified on this certificate were tested according to the current UL requirements.

Model SZi- DCS60XY Door Coordinator (a) for use with a pair of swinging fire doors incorporating an astragal.

Model SZi-GDD6600 and SZi-GDD6800 coordinators for use with a pair of swinging fire doors incorporating an astragal.

(a) - Where X: number 1~9, Y: Number 0~9

Also evaluated in accordance with Standard UL 10C.

Trademark and/or Tradename:

**ZILLY**

**ZILLY** DOOR & WINDOW  
HARDWARES

*Bruce Mahrenholz*

Bruce Mahrenholz, Director North American Certification Program  
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## SZi-FB100 + SZi-DPS100

Manual Flush Bolt, for Metal Doors - Non-Handed



SZi-DPS100

### Specification

- Face size: 6-3/4" x 1".
- Length of Bolt rod: 10-1/4" with a 5/8" throw.
- Bolt diameter: 1/2".
- Forged brass body, aluminum faceplate.
- Easy finger grip lever action and easy installation.
- Plunger supplied with milled surface on side which fits into a matching guide prevents bolt from turning and unscrewing.
- Conforms to ANSI spec., UL Listed for use on all fire labeled metal doors.
- Lengths are from center of bolt mechanism when bolt head is retracted.
- Finish: 605, 606, 625, 626

This manual flush bolt has a spring loaded snap action lever, which will retract the bolt when moved to the 'up' position, and project the bolt into the head frame when moved to 'down' position. All metal doors shall use one pair (top and bottom) of manual flush bolts. (Inactive leaf of double doors only).

# CERTIFICATE OF COMPLIANCE

**Certificate Number** 20220131-R40042  
**Report Reference** R40042  
**Issue Date** 2022-January-31

**Issued to:** SHIELD FIRE SAFETY & SECURITY LTD  
Unit 3, Endeavour Dr  
Basildon, SS14 3WF United Kingdom

**This certificate confirms that representative samples of** Flush and Surface Bolts, Manual Type

Have been investigated by UL in accordance with the Standard(s) indicated on this Certificate.

**Standard(s) for Safety:** ANSI/UL 10C, "Positive Pressure Fire Tests of Door Assemblies."

**Additional Information:** See the UL Online Certifications Directory at <https://iq.ulprospector.com> for additional information.

This *Certificate of Compliance* does not provide authorization to apply the UL Mark. Only the UL Follow-Up Services Procedure provides authorization to apply the UL Mark.

Only those products bearing the UL Mark should be considered as being UL Certified and covered under UL's Follow-Up Services.

Look for the UL Certification Mark on the product.

See addendum page 2.



Bruce Mahrenholz, Director North American Certification Program  
UL LLC

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# CERTIFICATE OF COMPLIANCE

**Certificate Number** 20220131-R40042  
**Report Reference** R40042  
**Issue Date** 2022-January-31

This is to certify that representative samples of the product as specified on this certificate were tested according to the current UL requirements.

Manual flush bolts, Model SZi-FB100, with 5/8 in. throw for use on swinging metal fire doors measuring up to 4 ft. wide and 8 ft. high with 1-3/4 in. thickness and rated up to and including 3 hr.

Manual flush bolts, Model SZi-FB100W, with 5/8 in. throw for use on swinging type, wood composite fire doors measuring up to 4 ft. wide and 8 ft. high with 1-3/4 in. thickness and rated up to and including 1-1/2 hr.

Trademark and/or Tradename:  **ZILLY** DOOR & WINDOW HARDWARES



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UL LLC

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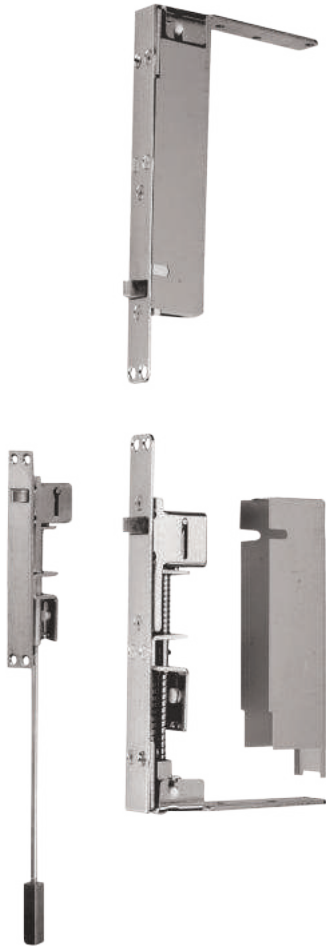


## SZi-FB620

### Automatic Flush Bolts

SZi-FB620M (Top & Bottom) for Metal Doors

SZi-FB620W (Top & Bottom) for Wood Doors



### Specification

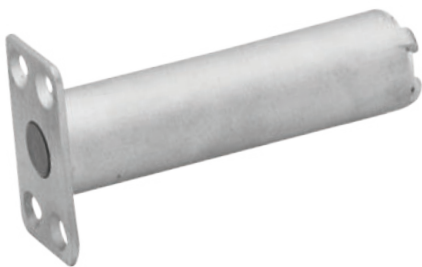
- Non-Handed
- Label: A (3 hours)
- UL Listed for Fire Hardware
- Conform to ANSI/BHMA A 156.3 Type 25
- Faceplate Size: SZi-FB620M- 1" x 6-3/4" (25.5mm x 171mm)  
SZi-FB620W- 1" x 8-1/2" (25.5mm x 216mm)
- Faceplate Materials: Steel, Stainless Steel or Brass
- Finishes  
US Standard: US3, US4, US10, US10B, US26, US26D, US32, US32D.  
BHMA Standard: 605, 606, 612, 613, 625, 626, 629, 630

### Operation

- These bolts are used in pairs at top and bottom of inactive door.
- In double door application, opening active door automatically retracts top and bottom bolts. Closing active door extends top and bottom bolts into frame and sill strikes, locking inactive door. (A dust - proof strike SZi-DP005 may be used with bottom side, option). It is fully automatic.
- If use of one unit for top side only, it has to combine a fire latch bolt which replaces the bottom bolt. This combination greatly reduced floor preparation, also eliminates field problems caused by door warp or changes in field conditions.

### Fire Latch Bolt - Model SZi-FL001

This auxiliary Fire Latch Bolt is a temperature-actuated bolt that automatically extends from active door into the inactive door when the temperature exceed the rating of the fusible link. It is installed in bottom door edge inside of the active door to replace the bottom flush bolt.



# CERTIFICATE OF COMPLIANCE

**Certificate Number** 20220131-R40044  
**Report Reference** R40044  
**Issue Date** 2022-January-31

**Issued to:** SHIELD FIRE SAFETY & SECURITY LTD  
Unit 3, Endeavour Dr  
Basildon, SS14 3WF United Kingdom

**This certificate confirms that representative samples of**

Flush and Surface Bolts, Automatic Type

Have been investigated by UL in accordance with the Standard(s) indicated on this Certificate.

**Standard(s) for Safety:** ANSI/UL 10C, "Positive Pressure Fire Tests of Door Assemblies."

**Additional Information:** See the UL Online Certifications Directory at <https://iq.ulprospector.com> for additional information.

This *Certificate of Compliance* does not provide authorization to apply the UL Mark. Only the UL Follow-Up Services Procedure provides authorization to apply the UL Mark.

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See addendum page 2.



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# CERTIFICATE OF COMPLIANCE

**Certificate Number** 20220131-R40044  
**Report Reference** R40044  
**Issue Date** 2022-January-31

This is to certify that representative samples of the product as specified on this certificate were tested according to the current UL requirements.

Models SZi-FB510M, SZi-FB610M, SZi-FB620M top and bottom flush bolt units for use on metal doors measuring up to 1219 mm (4 ft) wide and 2438 mm (8 ft) high, rated up to and including 3 hrs.

Models SZi-FB510W, SZi-FB610W, SZi-FB620W top and bottom flush bolt units for use on wood or plastic covered composite type fire doors measuring up to 1219 mm (4 ft) wide and 2438 mm (8 ft) high, rated up to and including 1-1/2 hrs.

Model SZi-FB610M/FL001 top flush bolts only for use on metal doors measuring up to 1219 mm (4 ft) wide and 2438 mm (8 ft) high, rated up to and including 3 hrs.

Model SZi-FB610W/FL001 top flush bolts only for use on wood doors measuring up to 1219 mm (4 ft) wide and 2438 mm (8 ft) high, rated up to and including 20 min.

Trademark and/or Tradename:   DOOR & WINDOW HARDWARES



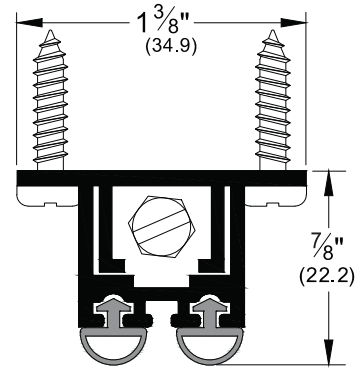
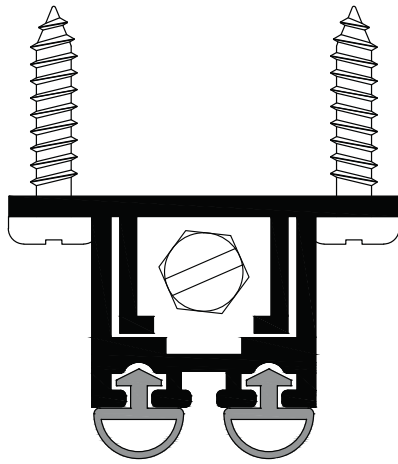
Bruce Mahrenholz, Director North American Certification Program  
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## SZiDB311

### Door Bottoms - Automatic Door Bottoms (Cont.)



#### Available Finishes

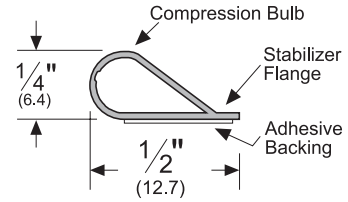
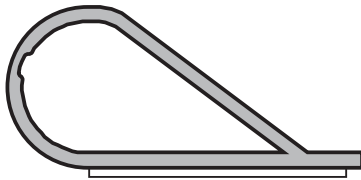
A (Mill Finish Aluminum)

C (Clear Anodized Aluminum)

D (Dark Bronze Anodized Aluminum)

## SZi-612

### Adhesive Weatherstrip



#### Available Finishes

**BL** (Black)

**C** (Clear)

**D** (Dark Brown)

**GR** (Light Gray)

**W** (White)

#### Available Lengths

17', 18', 20', 21', 25', 30', 204', 510'

- Seal begins compressing at 1/4"; compresses to seal up to a 1/16" gap



# CERTIFICATE OF COMPLIANCE

**Certificate Number** 20220131-R40327  
**Report Reference** R39848-20190528  
**Issue Date** 2022-January-31

**Issued to:** SHIELD FIRE SAFETY & SECURITY LTD  
Unit 3, Endeavour Dr  
Basildon, SS14 3WF United Kingdom

**This certificate confirms that representative samples of** GASKETING AND EDGE-SEALING MATERIALS FOR FIRE DOORS, POSITIVE-PRESSURE TESTED

Have been investigated by UL in accordance with the Standard(s) indicated on this Certificate.

**Standard(s) for Safety:** ANSI/UL 10C, "Positive Pressure Fire Tests of Door Assemblies."

**Additional Information:** See the UL Online Certifications Directory at <https://iq.ulprospector.com> for additional information.

This *Certificate of Compliance* does not provide authorization to apply the UL Mark. Only the UL Follow-Up Services Procedure provides authorization to apply the UL Mark.

Only those products bearing the UL Mark should be considered as being UL Certified and covered under UL's Follow-Up Services.

Look for the UL Certification Mark on the product.

See addendum page 2.



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# CERTIFICATE OF COMPLIANCE

**Certificate Number** 20220131-R40327  
**Report Reference** R39848-20190528  
**Issue Date** 2022-January-31

This is to certify that representative samples of the product as specified on this certificate were tested according to the current UL requirements.

Gasketing materials, Category J, Door Thresholds, Model(s) SZIT301, SZIT302, SZIT303, SZIT304, SZIT305, SZIT306, SZIT307, SZIT308, SZIT309, SZIT310, SZIT311, SZIT312, SZIT313, SZIT315, SZIT316.

Gasketing materials, Category J, Weather Strips, Model(s) SZiW201, SZiW202, SZiW203, SZiW204, SZiW205, SZiW206, SZiW207, SZiW208, SZiW209, SZiW210, SZiW211.

Gasketing materials, Category J, Door Shoes, Model(s) SZiDS100, SZiDS101, SZiDS102, SZiDS103, SZiDS104, SZiDS105, SZiDS106, SZiDS107, SZiDS108, SZiDS109, SZiDS110, SZiDS111.

Gasketing materials, Category J, Door Bottom Sweeps, Model(s) SZiDB102, SZiDB103, SZiDB104, SZiDB105, SZiDB106, SZiDB107, SZiDB108, SZiDB109, SZiDB111, SZiDB201, SZiDB402.

Gasketing materials, Category J, Automatic Door Bottoms, Model(s) SZiDB301, SZiDB302, SZiDB303, SZiDB304, SZiDB305, SZiDB307, SZiDB308, SZiDB309, SZiDB310, SZiDB311.

Gasketing materials, Category J, Silicone Adhesive-Backed Gaskets, Model(s) SZi-716, SZi-612, SZi-932, SZi-381.

Gasketing materials, Category J, Series HSS, Silicone Adhesive-Backed FireSmoke Gasketing, SZiFS2000 x SZi-716, SZiFS2000 x SZi-612, SZiFS2000 x SZi-932, SZiFS2000 x SZi-381

Gasketing materials, SZiDB202, SZiDB601, SZiDB602, SZiDB603, SZiDB604, SZiDB605, SZiDB606, SZiDB607, SZiDB608, SZiDB609, SZiDB610, SZiDB613, SZiDB614, SZiDB615

Gasketing materials, Category J, Series YDW, Astragals, SZiDW403, SZiDW602

Gasketing materials, Category J, Series YDT, Door Thresholds, SZiT100\_T, SZiT100\_V, SZiT101\_T, SZiT101\_V, SZiT102, SZiT103, SZiT104, SZiT105\_T, SZiT105\_V, SZiT106\_T, SZiT106\_V

Model(s), SZiW201\_S, SZiW202\_S, SZiW203\_S, SZiW204\_S, SZiW205\_S, SZiW206\_S, SZiW207\_S, SZiW208\_S, SZiW209\_S, SZiW210\_S, SZiW211\_S

Use with Listed steel frames and/or Classified steel covered composite, hollow metal doors rated to 3 h; wood and plastic covered composite doors rated to 1-1/2 h; wood core doors rated for 20 min.

Trademark and/or Tradename: **ZILLY** **ZILLY** DOOR & WINDOW HARDWARES



Bruce Mahrenholz, Director North American Certification Program  
UL LLC

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## SZi-D900 Series

### Electromagnetic Door Holders



Zilly electromagnetic door holders are designed for use with self-closing fire and smoke barrier doors. They usually use independently or with any fire or smoke detector system. Typical installations include hospitals, schools and public buildings. Electromagnetic door holders can also be operated by manual release for safety and convenience.

#### Features

- Standard voltage AC or DC
- Typical high holding force up to 80 lbs.
- No residual magnetism
- Swivel/Self-adjustable armature plate for easy installation
- Flush/Floor/Surface mounted
- Extension rods for increased operational alignment
- Manual release button allows to release the door at any time

#### Patents, Approvals and Listings

- UL 228, ULC C228 listed: R21907 (GD900 series)
- NF S 61-937 compliant (GD840S, GD850F, GD860S)

### ANSI Standard Electromagnetic Door Holders

Model	Voltage	Holding Force (lbs)	Manual Release Button	Mount	Finish Color	LED	Bond Sensor	Armature Plate Type	
*SZi-MH1000F	24VAC/DC *(12VAC/DC)	80	●	Floor	Black	-	-	Square	Swivel
*SZi-MH100W/S	24VAC/DC *(12VAC/DC)	80	-	Surface	Stainless Steel	-	-	Square	Swivel
*SZi-MH100W	24VAC/DC *(12VAC/DC)	80	-	Flush	Stainless Steel	-	-	Square	Swivel
*SZi-D900WEXX	24VAC/DC *(12VAC/DC)	80	●	Flush Surface	Stainless Steel	●	-	Square	Swivel
SZi-D970XX	12 /24VDC 110VAC/220VAC	32.9 38.8	-	Flush	Silver	-	-	Round	Swivel
SZi-D970SXX	12 /24VDC 110VAC/220VAC	32.9 38.8	-	Surface	Silver	-	-	Round	Swivel
SZi-D990XX	12 /24VDC 110VAC/220VAC	32.9 38.8	-	Flush	Stainless Steel	-	-	Round	Swivel
SZi-D990SXX	12 /24VDC 110VAC/220VAC	32.9 38.8	-	Surface	Stainless Steel	-	-	Round	Swivel

\*Special order for 12VAC/DC operation

ANSI Standard Electromagnetic Door Holders

SZi-MH1000F



SZi-MH100W/S



SZi-MH100W



SZi-D970XX



SZi-D970SXX



SZi-D990XX



SZi-D990SXX



SZi-D900WEXX



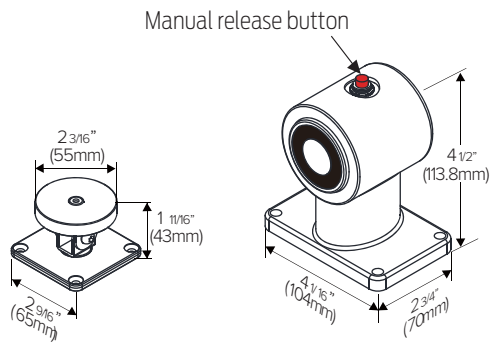
SMB-050  
Optional Back Box for SZi-D900WEXX



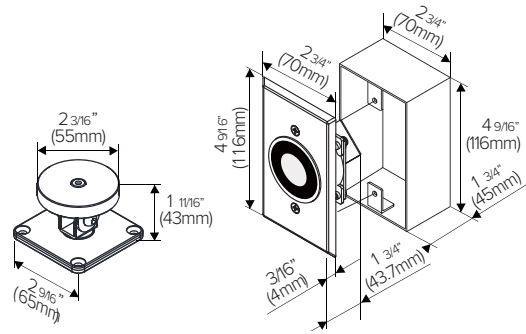


ANSI Standard Electromagnetic Door Holder Dimensions

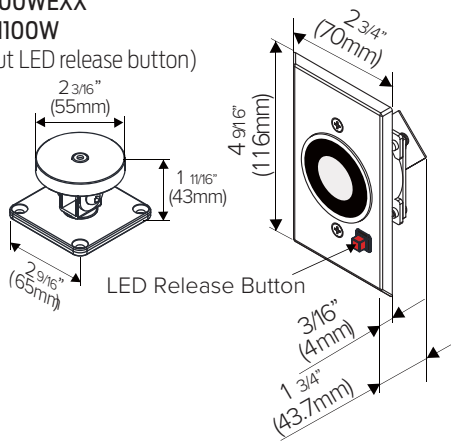
**SZi-MH1000F**



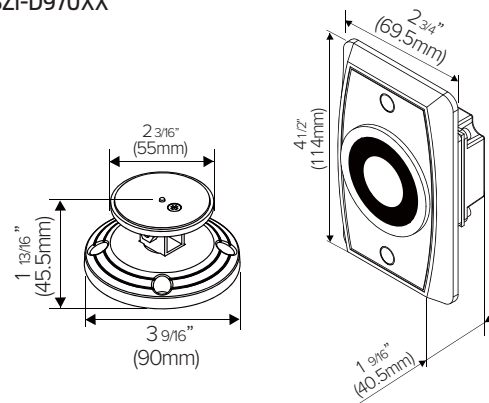
**SZi-MH100W/S**



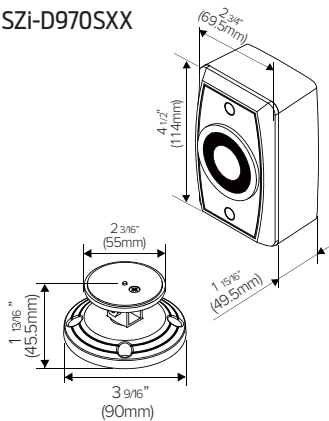
**SZi-D900WEXX**  
**SZi-MH100W**  
(Without LED release button)



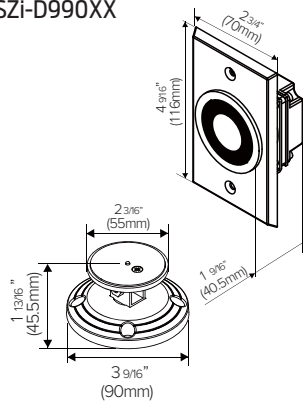
**SZi-D970XX**



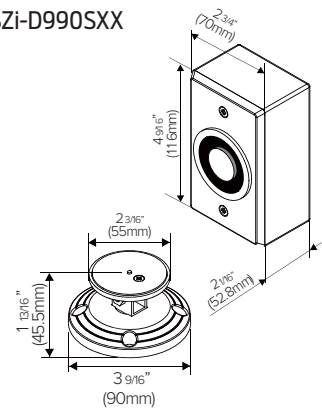
**SZi-D970SXX**



**SZi-D990XX**



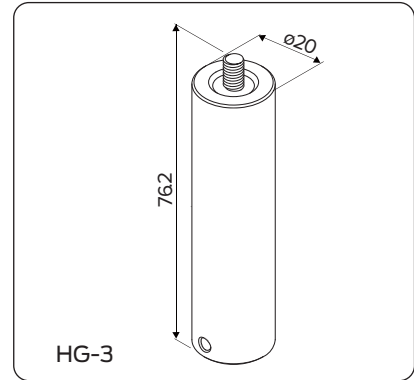
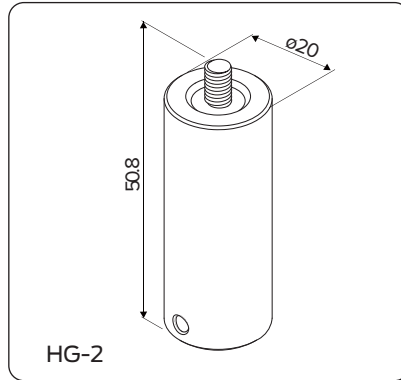
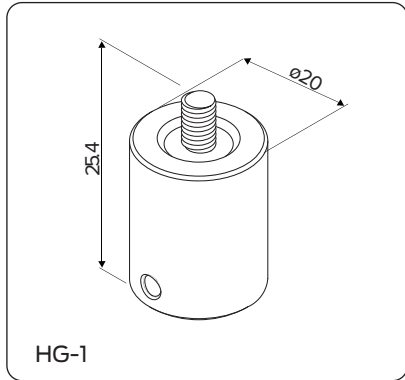
**SZi-D990SXX**





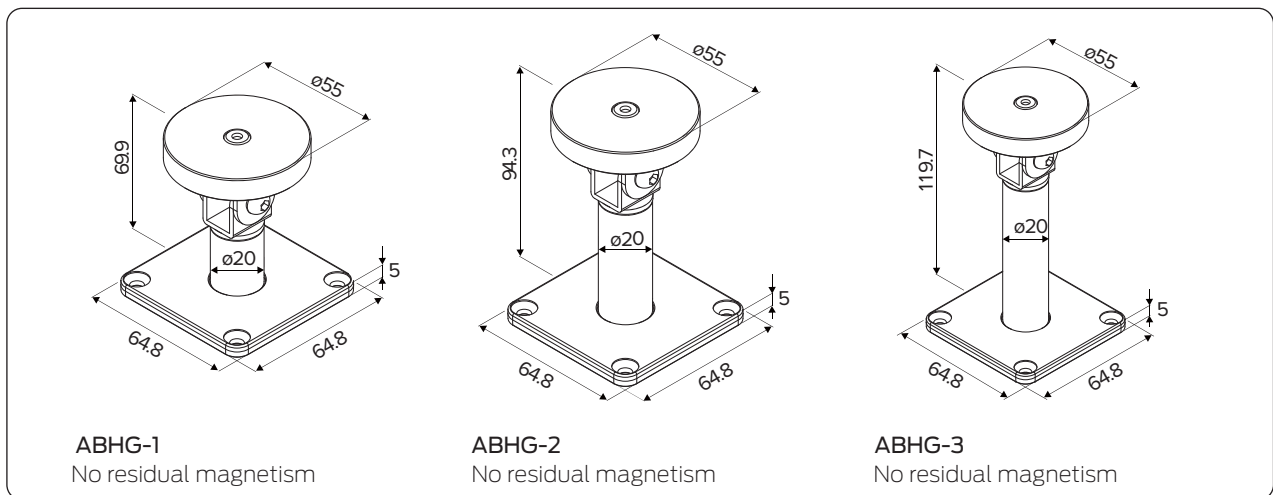
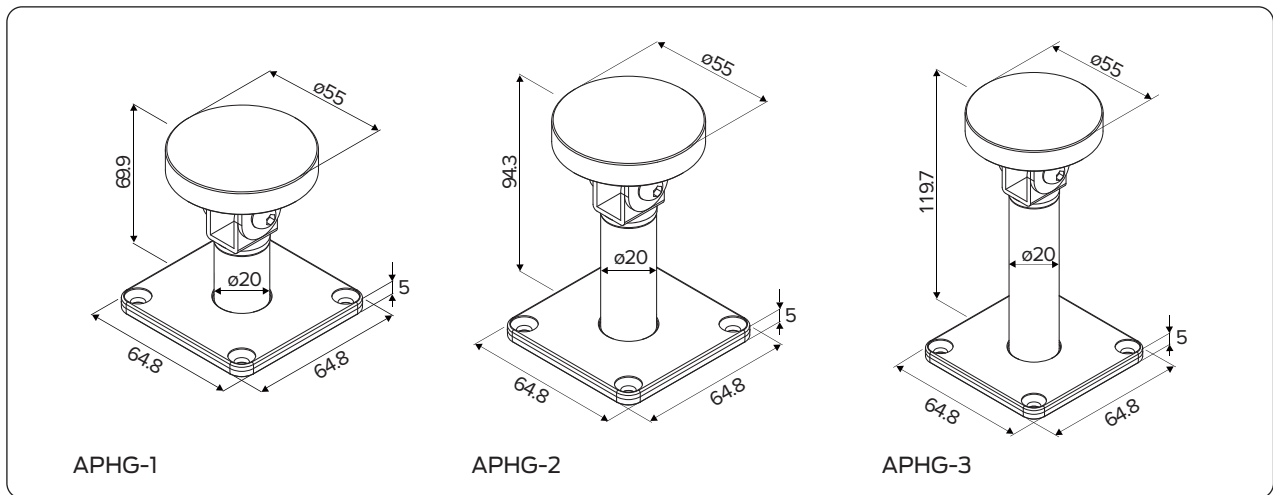
**Extension Rods for Square Type Armature Plates**

Extension rod(s) may be required to ensure proper installation by providing increased reach for the Armature plate.



Note: RM90 is not available for use with extension rod.

**Extension Rod Application (Square Type Armature Plate Only)**



# CERTIFICATE OF COMPLIANCE

**Certificate Number** 20220131-R40023  
**Report Reference** R40023  
**Issue Date** 2022-January-31

**Issued to:** SHIELD FIRE SAFETY & SECURITY LTD  
Unit 3, Endeavour Dr  
Basildon, SS14 3WF United Kingdom

**This certificate confirms that representative samples of** FIRE DOOR HOLDERS

Have been investigated by UL in accordance with the Standard(s) indicated on this Certificate.

**Standard(s) for Safety:** UL 228, "Door Closers-Holders, With or Without Integral Smoke Detectors."

**Additional Information:** See the UL Online Certifications Directory at <https://iq.ulprospector.com> for additional information.

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**Certificate Number** 20220131-R40023  
**Report Reference** R40023  
**Issue Date** 2022-January-31

This is to certify that representative samples of the product as specified on this certificate were tested according to the current UL requirements.

Electro-magnetic door holders, Models SZi-D970XX (Wall Mount), SZi-D970SXX (Wall Surface Mount), SZi-D990XX (Wall Mount), SZi-D990SXX (Wall Surface Mount), SZi-MH1000F (Floor Mount), SZi-MH100W (Wall Mount), SZi-MH100W/S (Wall Surface Mount) rated 12V DC/ 24V DC / 110V AC / 220 V AC.

Trademark and/or Tradename: 



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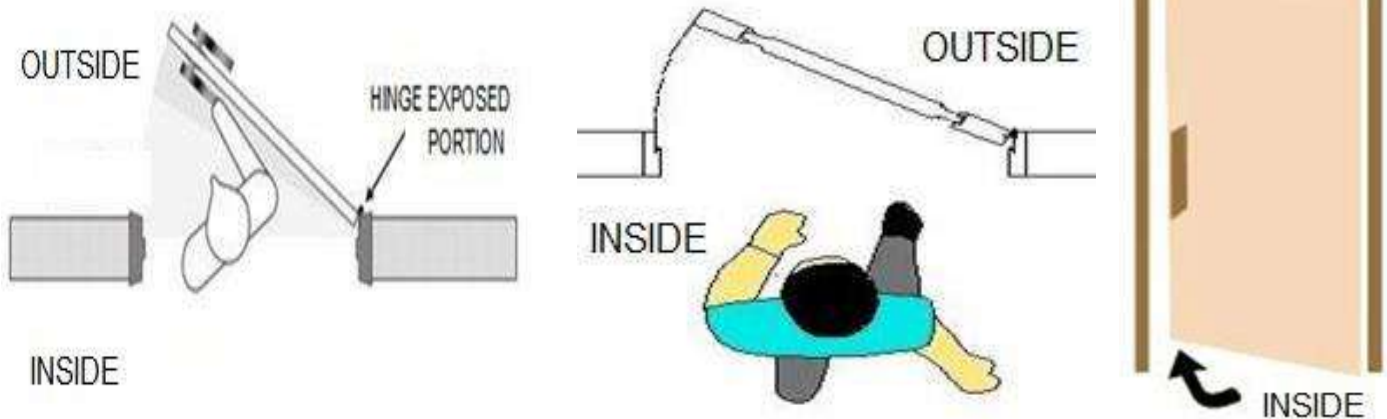


The two important types of Handing for each type of Door as per the below details,

- 1) Single Leaf Door
  - a) LHR – Left Hand Reverse
  - b) RHR – Right Hand Reverse
  
- 2) Double Leaf Door [with Equal or Unequal Leaf]
  - a) LHRA – Left Hand Reverse Active
  - b) RHRA – Right Hand Reverse Active

## SINGLE LEAF DOORS

### LHR – LEFT HAND REVERSE



- **Left Hand Reverse [LHR]** handing is where the Door is **pushed** from the **inside** with the help of the **Right Hand** of the User.
  
- For example, a Door with Fire Exit Latch [located always on the Inside] and External Trim [located always on the Outside] that is operated/pushed with the Right Hand from the Inside has a Handing of LHR.



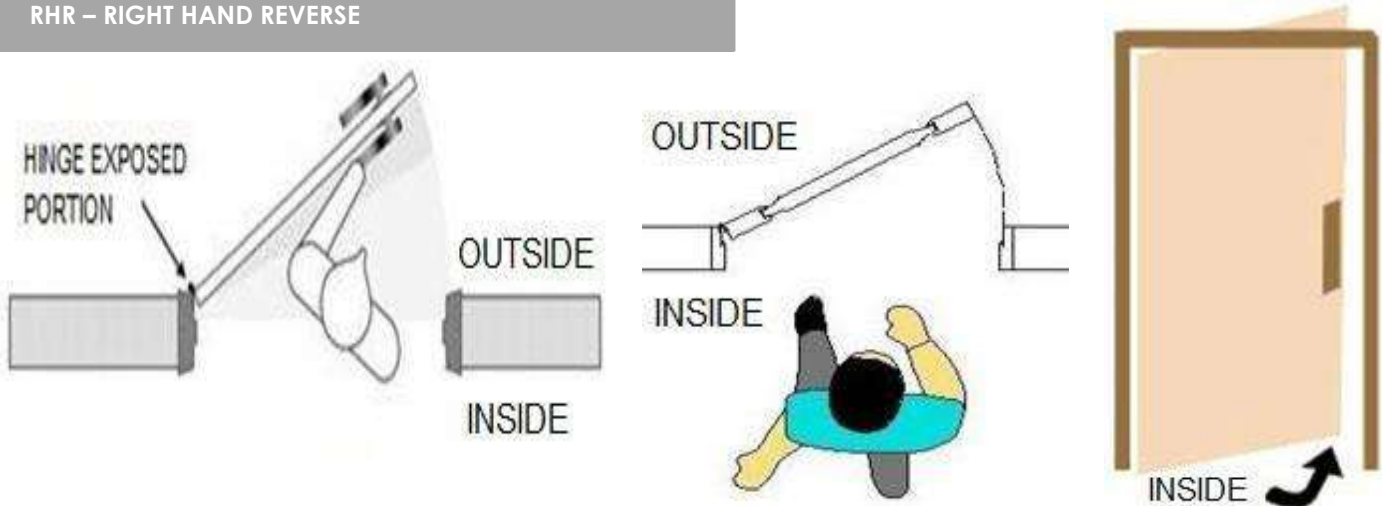


NAFFCO  
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## DOOR HANDING GUIDE FOR SWINGING TYPE DOOR

### SINGLE LEAF DOORS

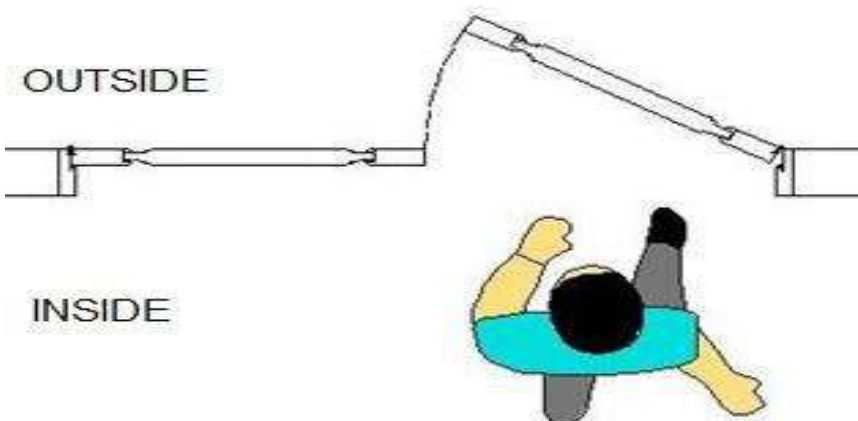
RHR – RIGHT HAND REVERSE



- **Right Hand Reverse [RHR]** handing is where the Door is **pushed** from the **inside** with the help of the **Left Hand** of the User.
- For example, a Door with Fire Exit Latch [located always on the Inside] and External Trim [located always on the Outside] that is operated/pushed with the Left Hand from the Inside has a Handing of LHR.

### DOUBLE LEAF DOORS

LHRA – LEFT HAND REVERSE ACTIVE



- **Left Hand Reverse Active [LHRA]** Handing is where the **Active Leaf** of a Double Leaf Door is **pushed** open from the **Inside** with the help of a **Right Hand**. In this Case the Active Leaf is always the **Right Side Leaf** from the Inside.





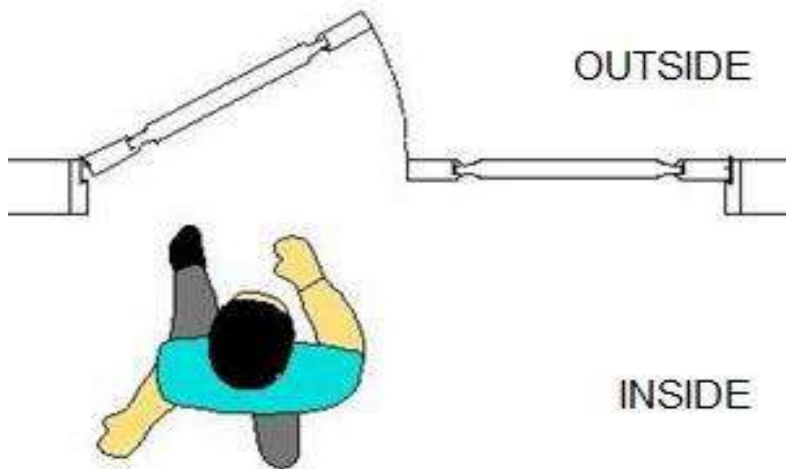
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## DOOR HANDING GUIDE FOR SWINGING TYPE DOOR

- For example, a Door with Fire Exit Latch [located always on the Inside and on Active Leaf] and External Trim [located always on the Outside on the Active Leaf] that is operated with **Right hand** from the **Inside** has a Handing of **LHR**. This Door may have a Vertical Fire Exit Device or a Flush Bolt on the Other/Inactive Leaf.

### DOUBLE LEAF DOORS

#### RHRA – RIGHT HAND REVERSE ACTIVE



- Right Hand Reverse Active [RHRA]** Handing is where the **Active Leaf** of a Double Leaf Door is **pushed** open from the **Inside** with the help of a **Left Hand**. In this Case the Active Leaf is always the **Left Side Leaf** from the Inside

- For example, a Door with Fire Exit Latch [located always on the Inside and Active Leaf] and External Trim [located always on the Outside on the Active Leaf] that is operated with **Left hand** from the **Inside** has a Handing of **RHR**. This Door may have a Vertical Fire Exit Device or a Flush Bolt on the Other/Inactive Leaf.

### IMPORTANT INFORMATION

- Remember, all the Double Leaf Doors have the additional word “**Active**” in their handing term, which shows that those Doors are Double Leaf Doors.

\*\*The pictures used in this Guide has been drafted only to provide a Door Handing guide to the user and the guide in no way reflects the design and/or construction and/or other specification and/or any other details related to the door.

-----[END OF THE HANDING GUIDE]-----





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*COLOUR YOUR LIFE WITH NAFFCO's WIDE COLOUR CHOICES*

The following are the RAL standard colours that are available readily and as a Standard with NAFFCO,



RAL 3020



RAL 3000



RAL 5015





**NAFFCO**  
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**RAL COLOUR CHART FOR NAFFCO STANDARD COLOURS**



RAL 9010



RAL 9001



RAL 1013



RAL 9006



RAL 8003



RAL 8028



RAL 7032



RAL 7038



RAL 7044



RAL 8025







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## Important Coating Information:

- 1) All the Colours shown above are coated only with Jotun TGIC Polyester Powder.
- 2) All the Colours are coated with Approx. 50% Glossy Non-Metallic Finish. Requirements for lesser/higher gloss will attract cost variations.
- 3) All the offers from NAFFCO are based only on the RAL Colours mentioned above.
- 4) Other RAL Colours can be provided upon demand of the Client, subject to higher cost variations, provided the minimum quantity of Door to be coated with the demanded colour is not less than 50.
- 5) The Colours provided in this catalogue/chart are only for reference purposes whilst the actual colour may have slight variations due to the variation caused between different kind of surfaces [Eg: Paper and Steel], printing machines and such.

-----[END OF THE COLOUR CATALOGUE]-----





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