



Importers & Distributors:

TYRO INDIA

Office No. 5 , New Ambika
Apartment, Jawahar Nagar,
Road No. 2, Goregaon (W),
Mumbai - 400 062

Tel.: +91-22-28793528
Fax: +91-22-28793538

Hyderabad

M : +91-99-49-979302

Email: info@tyroindia.com
Web: www.tyroindia.com



Distributors :



AUTOMATIC DOOR

CONCEALED DOOR CLOSER

SURFACE DOOR CLOSER

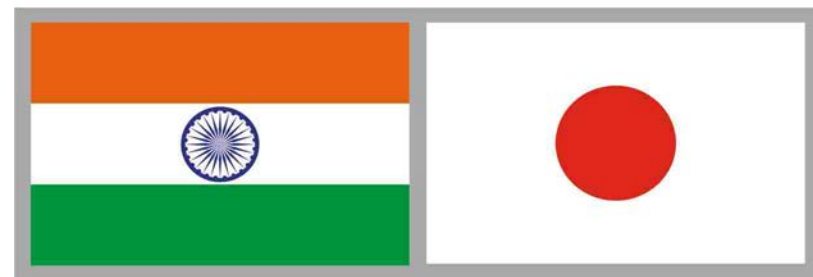
PIVOT DOOR CLOSER

FLOOR SPRINGS

PATCH FITTINGS

FIRE EXIT PANIC BARS





Contents



AUTOMATIC DOOR



CONCEALED DOOR CLOSER



SURFACE DOOR CLOSER



PIVOT DOOR CLOSER



FLOOR SPRINGS

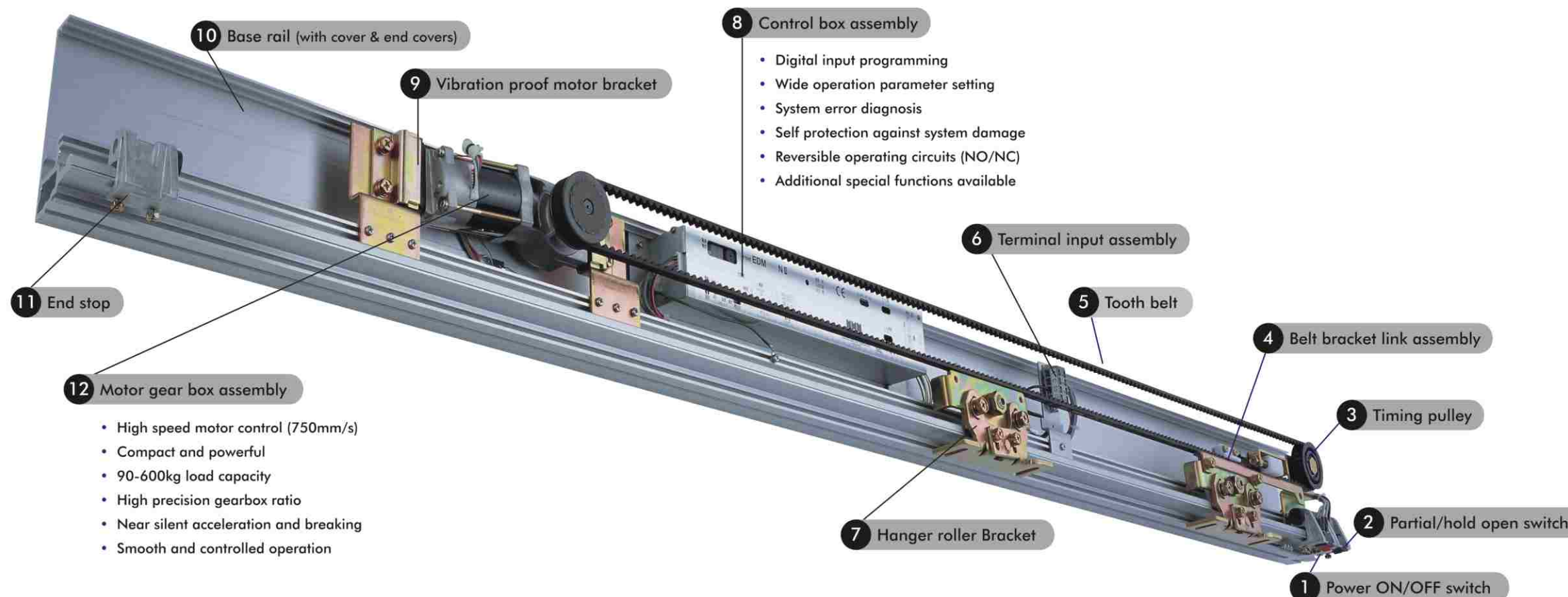


PATCH FITTINGS

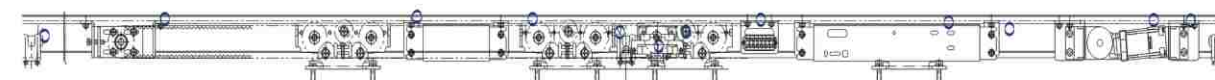
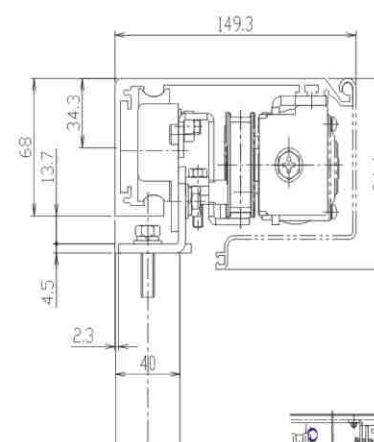


FIRE EXIT PANIC BARS

EDM NII Series (Sliding Door Operator)



EDM NII Series provides the basis for implementation of new ideas and concepts, opening new possibilities in the use of automatic door systems today.



Designed with installer and user in mind...

Our design team have carefully considered operation features, set-up procedures, installation and maintenance, as well as the use of the latest materials and fixing methods.

Quick and Easy Installation

All major components including motorgear, control box, battery and electromagnetic locking are front fixed onto the base rail, allowing all parts to be mounted or removed at the job site without dismantling the main base rail. With flexible position adjustment, parts can be moved for servicing purposes. Once the rail is fixed in place, doors can be easily mounted using our unique door bracket and flexible retainer design.

Programming and Set-up

After initial automatic learning and door stroke optimisation, setting of all standard parameters can be performed quickly and easily utilising the 2-button input and digital LED display. Setting and adjustment is easily achieved without the need for a hand held PALM system or additional expensive software. Through the 2 digit LED display, access to operational settings and history is possible.

Memory Retention

Using Random Access Memory (RAM) it is possible to re-write operational control settings up to 1 billion times. The RAM system also allows long term memory retention of control settings without the need for a lithium back up battery.

High Speed & Smooth Operation

EDM NII Series Motor Gear System offers faster acceleration, with a high speed of 750 mm/s. Our base rail design allows the doors to be mounted nearer to the centre of gravity, creating a smoother operation.

Accessories

Electromagnetic locking fail secure (LK1) and fail safe (LK2) options, combined with a battery backup system, meet safety and security requirements worldwide. We also offer a Battery Monitoring System (BMS) which monitors battery power to ensure power is present when required.

Wide Range Kg Capacity

EDM NII Series can move a wider range of sliding doors from light commercial doors to heavy industrial loads:

- EDM 18NII = 90kg per door leaf (x2 = 180kg)
- EDM 24NII = 120kg per door leaf (x2 = 240kg)
- EDM 30NII = 150kg per door leaf (x2 = 300kg)
- EDM 40NII = 200kg per door leaf (x2 = 400kg)
- EDM 50NII = 250kg per door leaf (x2 = 500kg)
- EDM 50NII = 500kg per door leaf (x1 = 500kg)
- EDM 65NII = 300kg per door leaf (x2 = 600kg)
- EDM 65NII = 600kg per door leaf (x1 = 600kg)

Concealed Door Closer

1035



- EN Standard Concealed Door Closer.
- Thickness 37mm.
- Power Adjustable No.2 to No.4 by Spring.
- Conforming to EN 1154. EN Fire Tested



Concealed Door Closer

1013



- EN Standard Concealed Door Closer.
- Thickness 32mm.
- Power No1, No.2 & No.3.
- Conforming to EN 1154. EN Fire Tested

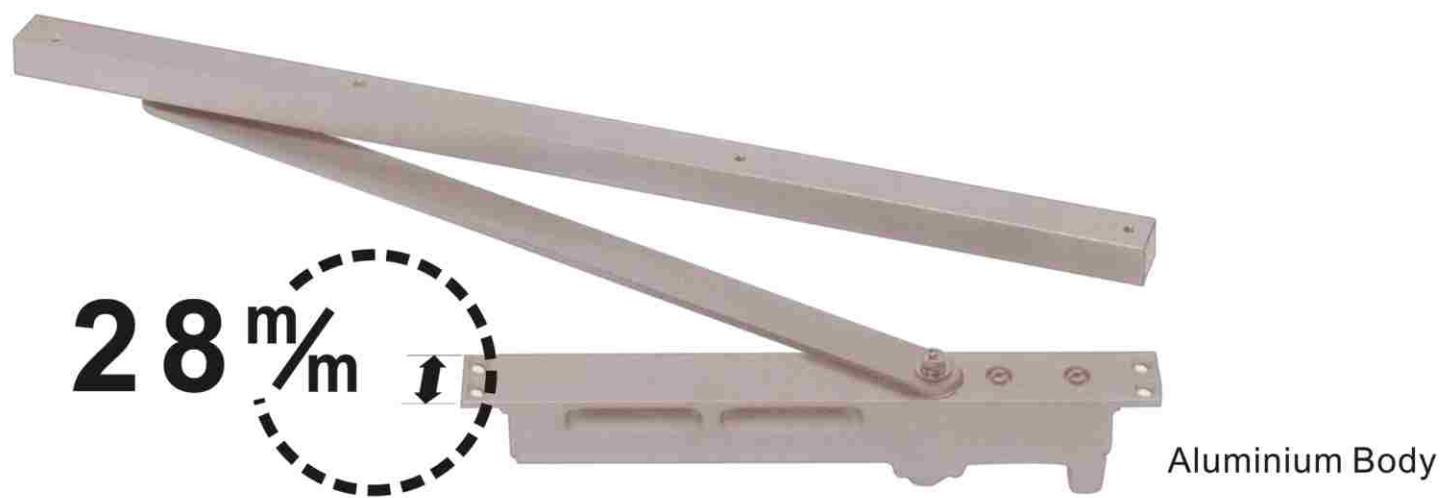


DATA AND FEATURES		1013	1035
Variable closing force	Spring strength (EN)	1 To 3	3 To 5
Standard doors	≤850mm ≤40kg	1013	X
	≤950mm ≤60kg	1013	X
	≤1100mm ≤80kg	X	1035
	≤1250mm ≤100kg	X	1035
	≤1450mm ≤120kg	X	X
Body dimensions (mm)	Length	230	239
	Height	57	61
	Projection	32	37
Arm	Standard	V	V
	Parallel	X	X
	Track (standard)	V	V
	Track (hold-open)	V	V
Rack and pinion		V	V
Power shoe arm bracket		X	X
Angle of opening		120°	120°
Power adjustable by spring		X	V
Power adjustable by position		X	X
Sweep speed adjustable		V	V
Latching speed adjustable		V	V
Hold-open	Built in	X	X
	Hold open arm	V	V
	Self-regulating	V	V
Back-check	Adjustable at valve	X	○
Delayed action adjustable		X	X
Non-handed		V	V
Application	Regular (1)	X	X
	Parallel arm (66)	X	X
	Transom (61)	X	X
Guarantee/years		5 years	5 years

V = yes X = no ○ = option

- GUARANTEE:**
A free replacement ex-works of any closer proved defective by reason either of faulty manufacture or defect in materials.
- BACK CHECK:**
Provides a cushioning effect when the door is forcibly thrown open but does not serve as substitute for a door stop.
- STANDARD FINISHES:**
Silver, dark brown or gold, other finishes upon request.

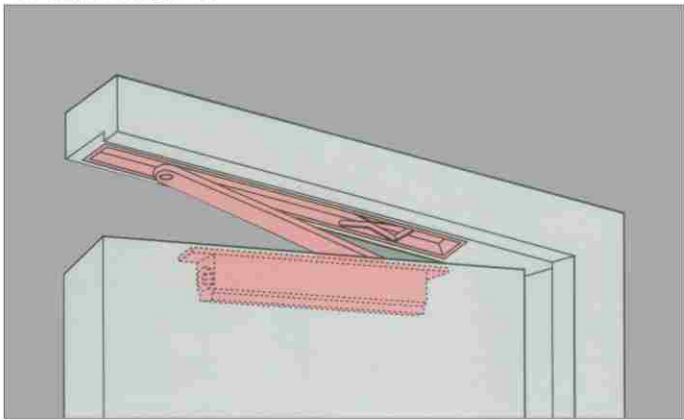
Concealed Door Closer 600 SERIES



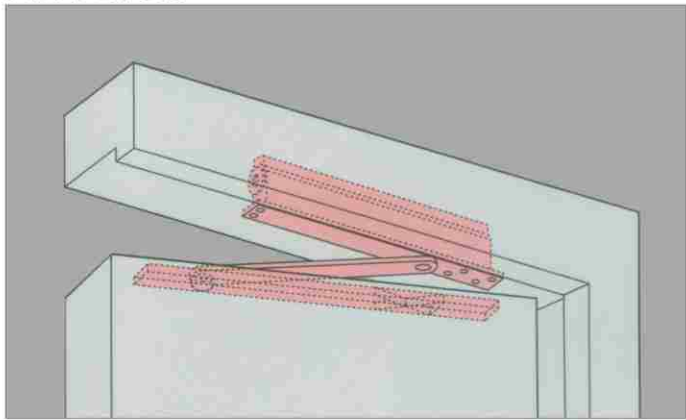
Aluminium Body

New... Super-thin... Ideal for regular or aluminium sash doors

Standard



Reverse



Close the door, and the door closer remains out of sight. Open it, and the closer's sleek lines lend beauty to your room decor. With light and smooth action, outstanding performance and superb durability, the 600U Series NHN Concealed Door Closer offers quietness and style in guest rooms, studies and other rooms.

Features

1. With the door closed, the main body and lever are concealed to streamline the external appearance....available for standard and reverse-installation closers.
2. The super-thin main body can be installed even on thin doors....aluminum doors, standard steel doors, wooden doors, etc.
3. The refined design, providing smooth opening and closing, is ideal for reception rooms, hotel rooms, libraries, etc....closing speed and the hold-open angle can be easily adjusted.
4. Functional, durable, and attractive....a needle bearing smoothly operates the stylish closer.

Models and applicable standard doors

Model	Applicable doors (indoors only)	
	Dimensions (mm)	Weight (kg)
No.1628U (with hold-open device)	900×2,100	25-45
No.1638U (with hold-open device)	950×2,100	40-65

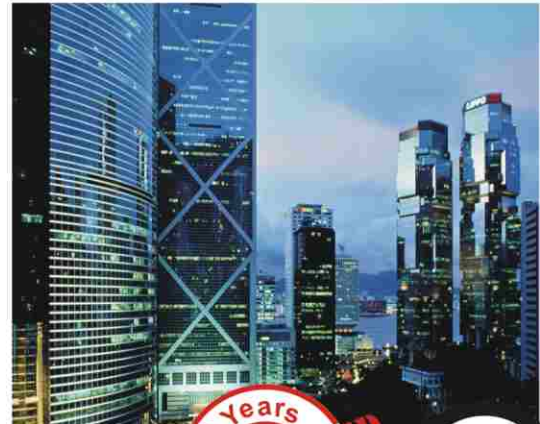
Adjustment of Hold -Open Angle

Install a hold-open device as shown in the table for hold-open angles. The hold-open angle will vary with the type of hinge.

Installation and Precautions

- This closer can be installed with butt hinge or pivot-hinge doors. Standard or reverse installation is possible in either door.
- For standard installation, the width of wooden door must be at least 40mm, and that of a sash door, 36mm.
- For reverse installation, a wooden door must be at least 40mm wide, and a sash door, 36mm wide.
- Use a butt-hinge door if the door must open 180°.
- Installation dimensions vary somewhat with the type of hinge.
- The distance between the top of the door and the ceiling should be at least 50mm for later adjustment.
- With pivot hinges, install a hold-open device or door stopper to prevent the door from opening beyond its maximum opening angle.

Surface Door Closer 400 En Closer



DATA AND FEATURES		400
Variable closing force	Spring strength (EN)	2 To 5
Standard doors	≤850mm ≤40kg	400
	≤950mm ≤60kg	400
	≤1100mm ≤80kg	400
	≤1250mm ≤100kg	400
Body dimensions (mm)	Length	236
	Height	55
	Projection	39
Arm	Standard	V
	Parallel	O
	Track (standard)	O
	Track (hold-open)	O
Rack and pinion		V
Power shoe arm bracket		V
Angle of opening		180°
Power adjustable by spring		V
Power adjustable by position		X
Sweep speed adjustable		V
Latching speed adjustable		V
Hold-open	Built in	X
	Hold open arm	O
Back-check	Self-regulating	X
	Adjustable at valve	O
Delayed action adjustable		O
Non-handed		V
With cover		O
Application	Regular (1)	V
	Parallel arm (66)	O
	Transom (61)	V
Guarantee/years		10 years

• EN Standard Power Adjustable EN 1154. Fire Tested.
• RAL9006 finish as standard with others available.
NHN 400 are CE approved to EU directives (89/106/EEC) by the EN 1154:1996/A1:2002 and EN1634-1:2000.

Guarantee : A free replacement ex-works if any closer proved defective by reason either of faulty manufacture or defect in materials.

Surface Door Closer

350



Surface Door Closer

351



DATA AND FEATURES		350	351
Variable closing force	Spring strength (EN)	2 To 4	1 To 2
Standard doors	≤750mm ≤20kg	X	351
	≤850mm ≤40kg	350	351
	≤950mm ≤60kg	350	X
	≤1100mm ≤80kg	350	X
	≤1250mm ≤100kg	X	X
	≤1450mm ≤120kg	X	X
Body dimensions (mm)	Length	220	162
	Height	59	44
	Projection	42	36
Arm	Standard	V	V
	Parallel	○	○
	Track (standard)	○	○
	Track (hold-open)	○	○
Rack and pinion		V	V
Power shoe arm bracket		V	V
Angle of opening		180°	120°
Power adjustable by spring		X	X
Power adjustable by position		V	V
Sweep speed adjustable		V	V
Latching speed adjustable		V	V
Hold-open	Built in	X	X
	Hold open arm	○	○
Back-check	Self-regulating	X	X
	Adjustable at valve	X	X
Delayed action adjustable		X	X
Non-handed		V	V
With cover		○	X
Application	Regular (1)	V	V
	Parallel arm (66)	○	○
	Transom (61)	V	V
Guarantee/years		5 years	5 years

Power Shoe Arm Bracket :

Designed to be reversed to increase final closing power by approximately 15%.

Back Check :

Provides a cushion effect when the door is forcibly thrown open but does not serve as a substitute for a doorstop.

Standard Finishes :

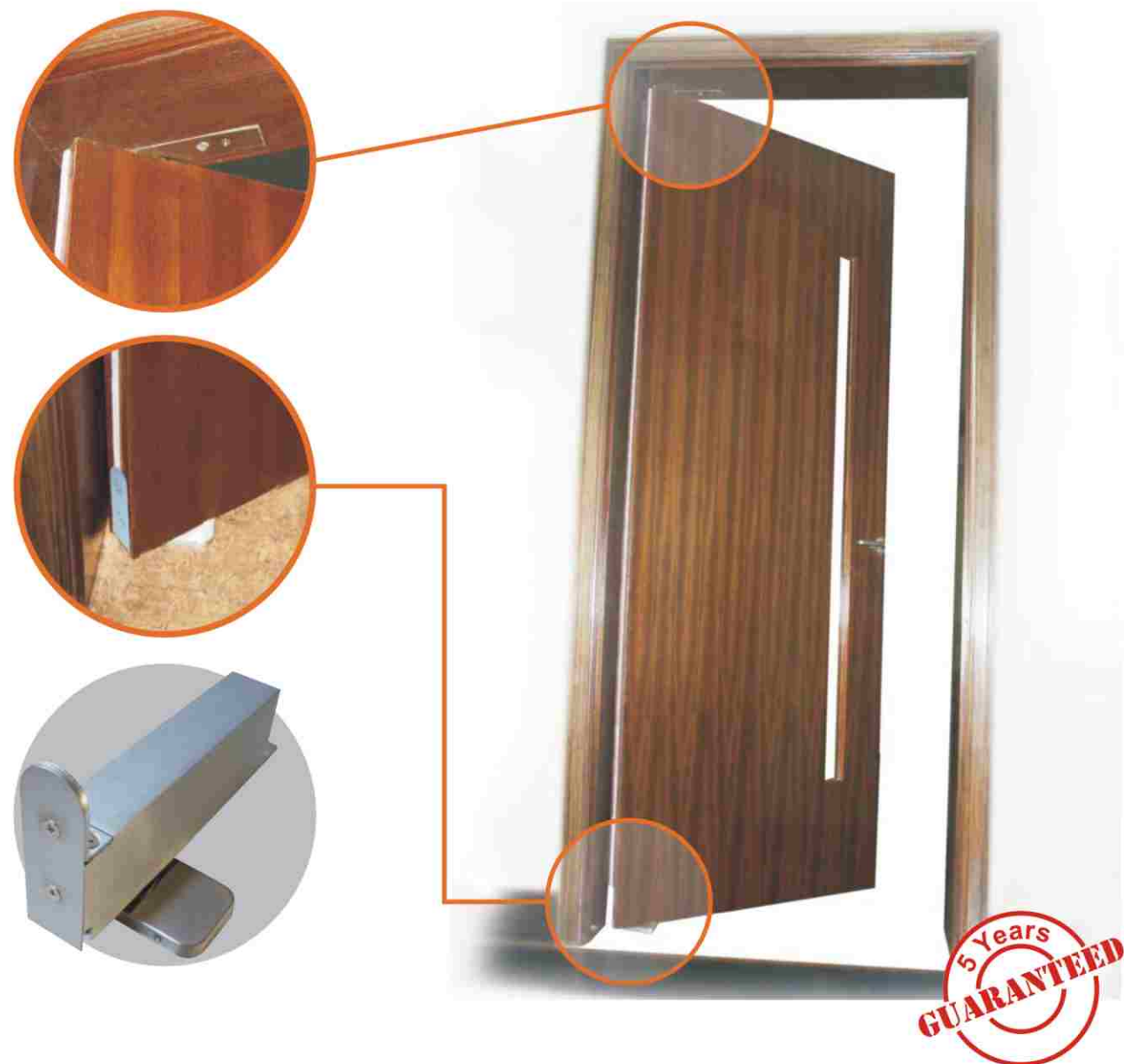
Sliver, Dark Brown or Gold. Other finishes available on request.

Guarantee :

Free replacment ex-works if any closer proved defective by reason either of faulty manufacture or defect in materials.

Standard Economical Model. EN 1154 Standard Closer. Power adjustable No.2 to No.4 by position. EN Fire Tested.

Pivot Door Closer PDC100W For Wooden Doors



The NHN PDC-100W pivot closers are suitable for timber, aluminium and steel doors.

Incorporating the latest cam type technology, the NHN PDC-100W pivot closers offer easy opening with increased efficiency on the closing torque.

The closing speed is easily adjusted via two independent adjustment valves.

Available with or without hold open at 90°.

Narrow style with high performance.

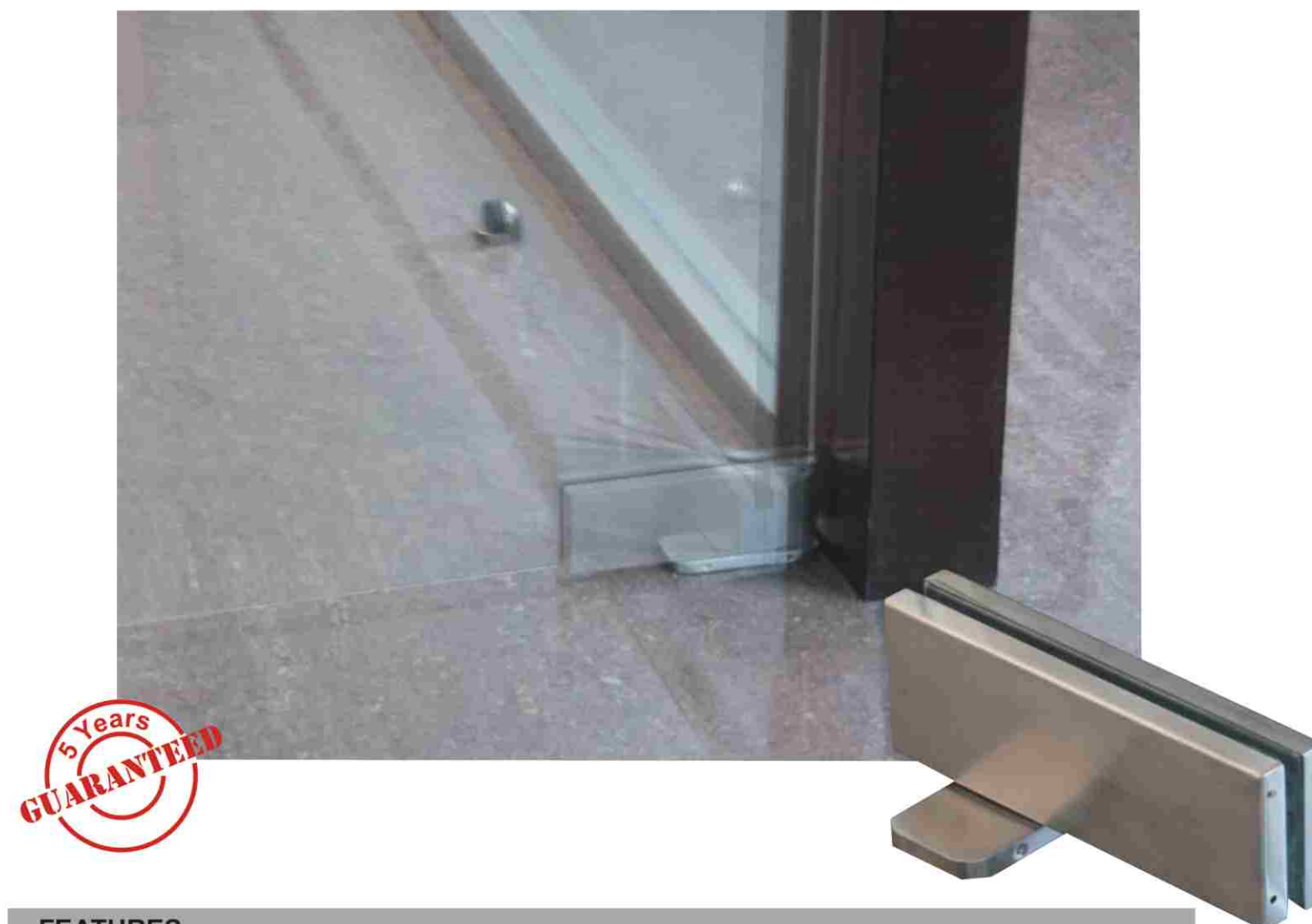
Easy installation; costs and time saving as no preparation on the floor needed.

5 year Guarantee against faulty workmanship.

FEATURES

- Suitable for double action doors, maximum 1250 mm wide and a maximum weight of 100 kg.
- Supplied non handed the NHN PDC-100W pivot closers provide optimum efficiency.
- Quick and easy installation.
- Low opening resistance and high closing efficiency
- Simple final adjustments, 3mm backward / forward, 3mm left / right, $\pm 4^\circ$ alignment.
- Ambient temperature $-20^\circ \text{C} - +40^\circ \text{C}$.
- Cover plates available as standard in satin stainless steel. Polished stainless steel available.
- Complete with top pivot set.

Pivot Door Closer PDC100 For Glass Doors



FEATURES

- Suitable for a glass door 8-13mm thick, 750 - 1000mm wide and a maximum weight of 100kg.
- Supplied non handed the NHN PDC100 provides optimum efficiency with quick and easy installation.
- Simple final adjustments. 3mm backward / forward, 3mm left / right, $\pm 4^\circ$ alignment.
- Ambient temperature $-20^\circ - +50^\circ$.
- Finishes available as standard are satin and polished stainless steel. (other finishes are available on request).

The NHN PDC100 pivot closer, is the first in the Flagship Range from NHN's next generation of hidden door closers.

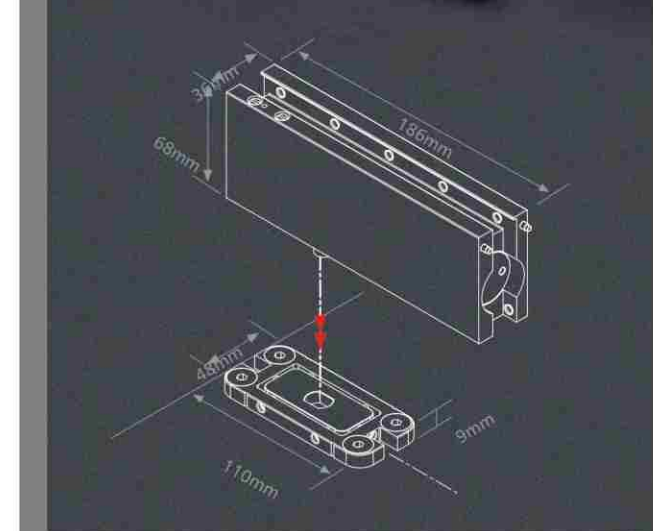
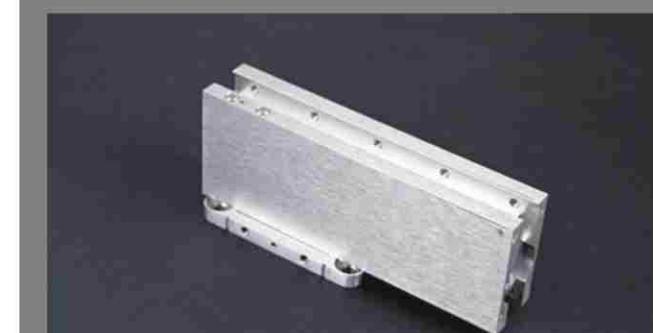
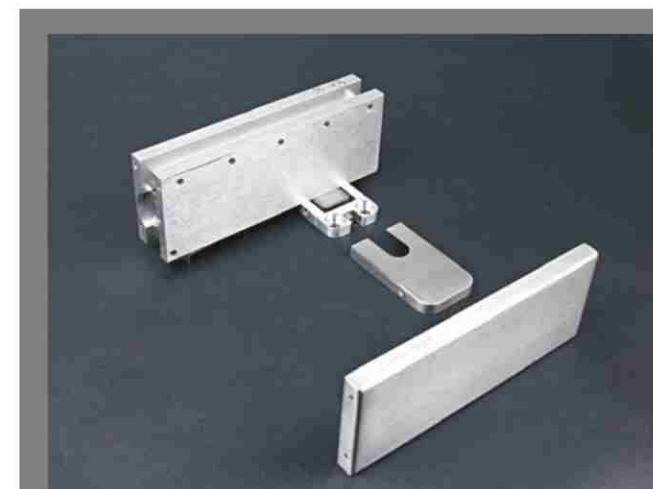
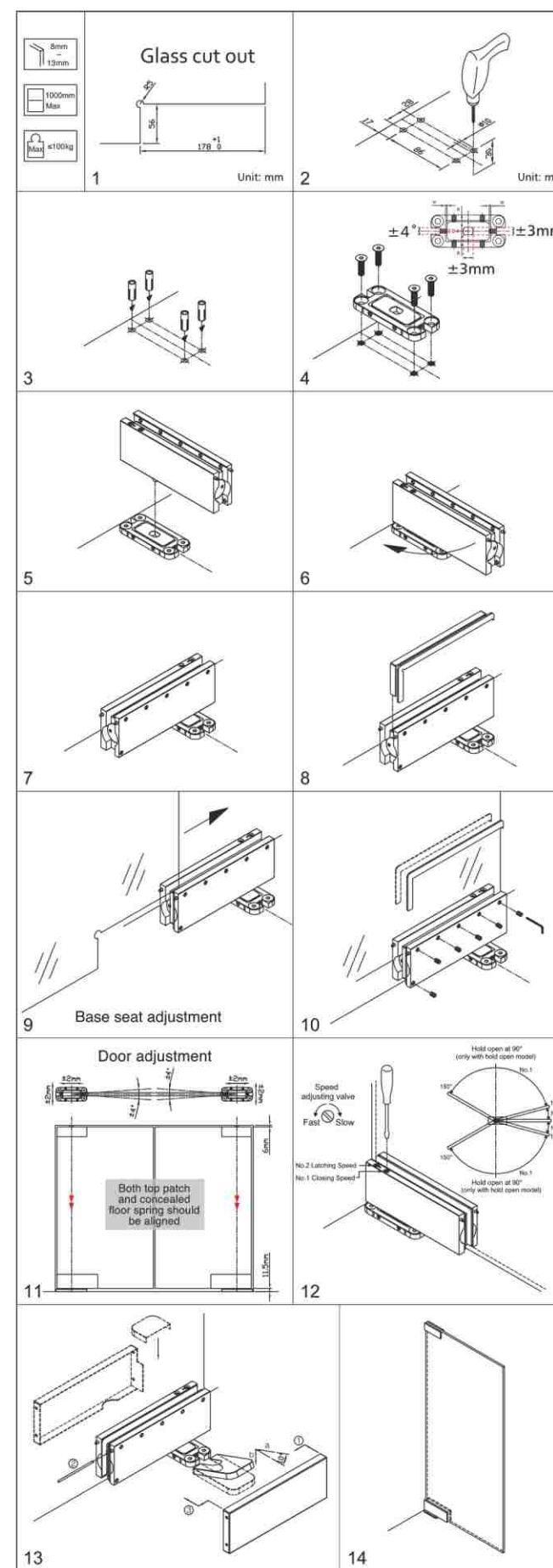
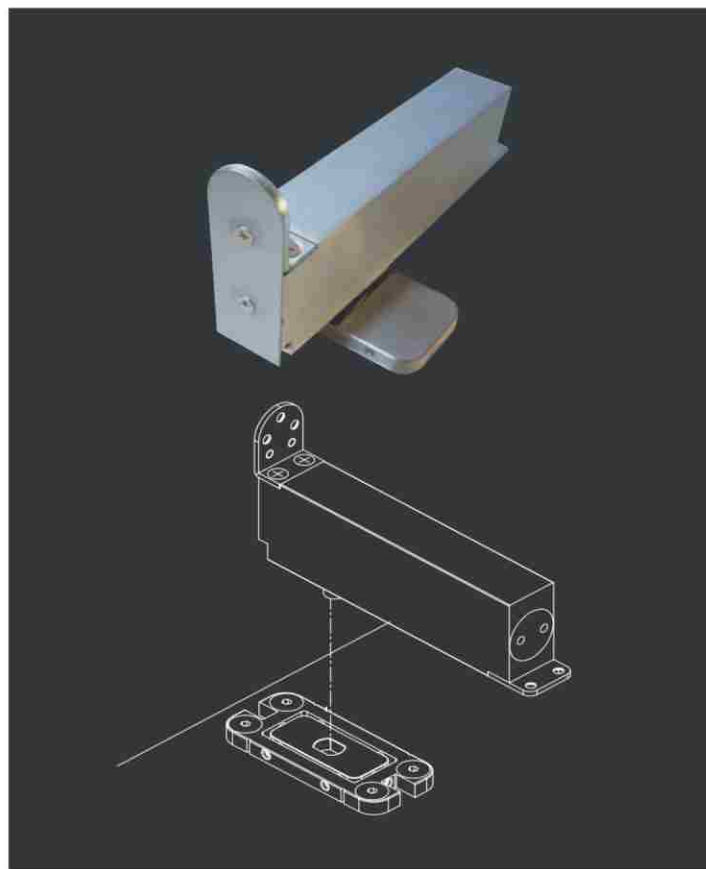
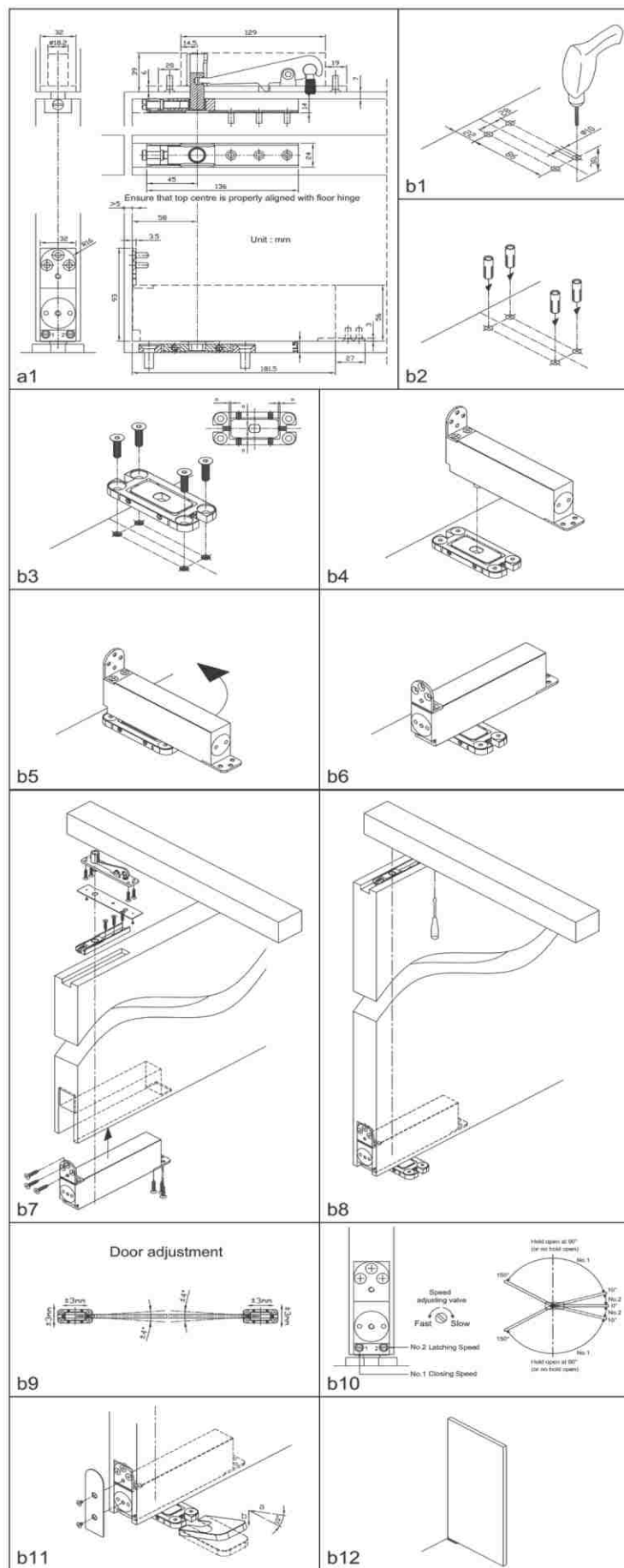
Incorporating the latest cam type technology, the NHN PDC100 pivot closer offers easy opening with increased efficiency on the closing torque.

The closing speed is easily adjusted via two independent adjustment valves.

Available with or without hold open at 90°.

Narrow style with high performance.

5 year Guarantee against faulty workmanship.



SELECTION CHART / FUNCTION & ADJUSTMENT

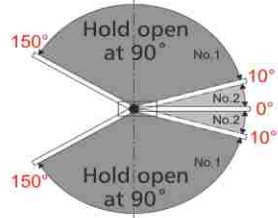
Model No.	Function	Door Width	Door Weight	Max. Opening Angle
PDC 100	Non-Hold Open	1000mm	100kg	150°
PDC 100-S	Hold Open (90°)			90°

Model No.	Function	Door Width	Door Weight	Max. Opening Angle
PDC 103W	Non-Hold Open	950mm	100kg	150°
PDC 103WS	Hold Open (90°)			
PDC 105W	Non-Hold Open	1250mm	100kg	
PDC 105WS	Hold Open (90°)			

1

Double action
Non hold open model PDC100:
Maximum opening angle 150°

Hold open model PDC100-S:
Hold open position and maximum
opening angle 90°

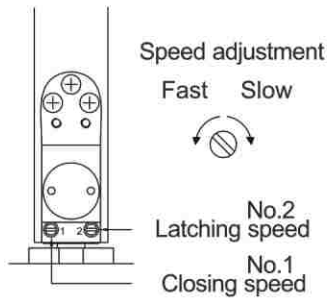
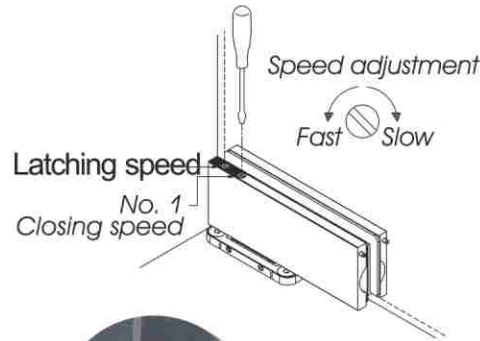


2

Two speed adjustment
Closing speed (150° ~ 10°)
Latching speed (10° ~ 0°)

3

Providing over 70% efficiency, the NHN
PDC100 combines light opening with
smooth closing.

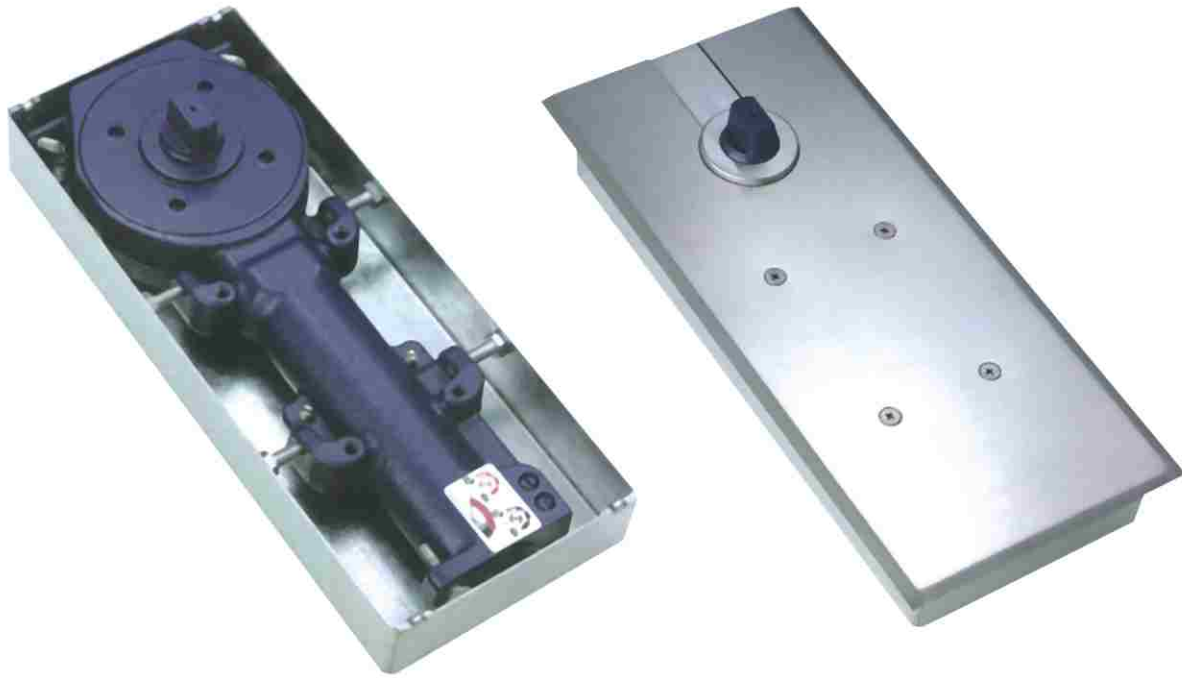


• Two speed adjustment -
Closing speed [150° ~ 10°]
Latching speed [10° ~ 0°]



Floor Springs

650 Series For Glass / Wooden Doors



DATA AND FEATURES

Variable closing force	Closing force EN1154+A1	3 / 4	Cam-action	●
Standard doors	≤ 950 mm ≤ 100kg	653	Dual door opening angle	130°
	≤ 1100mm ≤ 150kg	654	Sweep speed adjustable	●
Body dimensions (mm)	Length	276	Latching speed adjustable	●
	Width	108	Hold-open	without hold-open ○ at 90° hold-open ● at 105° hold-open ○
	Thick	40mm	Non-handed	●
Arm	Standard	●		
	Offset arm	○		

● = yes ○ = option

ACCESSORIES



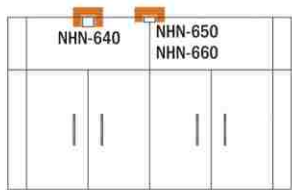
STANDARD STRAP,
TOP AND BOTTOM PIVOT (DMA)



STANDARD STRAP,
TOP AND BOTTOM PIVOT (NSA)

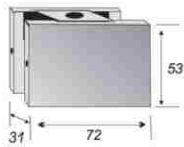


OFFSET PIVOT



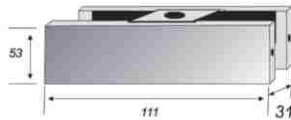
NHN-640

CONNECTOR PATCH

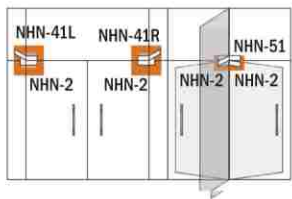
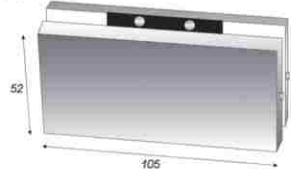


NHN-650

CONNECTOR PATCH - TWO GLASSES



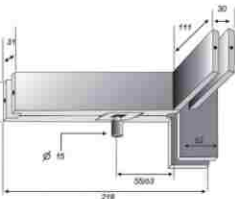
NHN-660



NHN-41L/41R

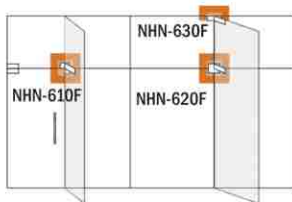
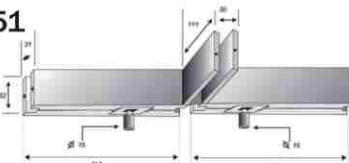
CORNER PATCH

Transom side & interior fin link patch with pivot (Left / Right)

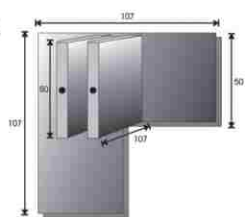


NHN-51

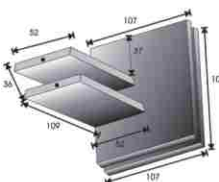
Double pivot Transom panel patch with fin holder for centre hung doors.



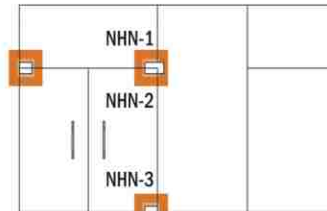
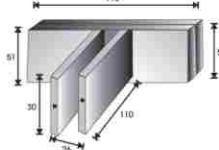
NHN-610F



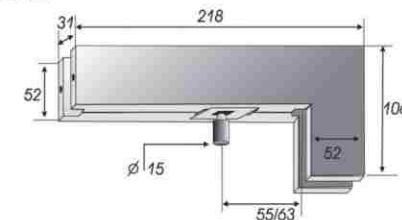
NHN-620F



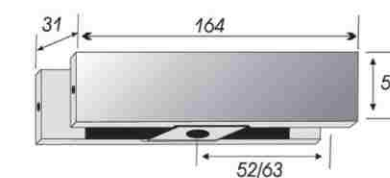
NHN-630F



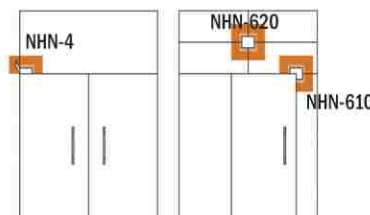
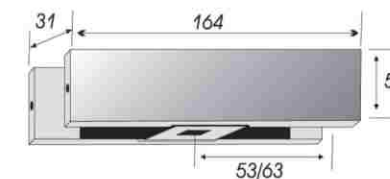
NHN-1 CORNER PATCH



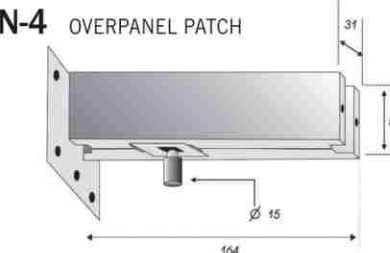
NHN-2 TOP PATCH



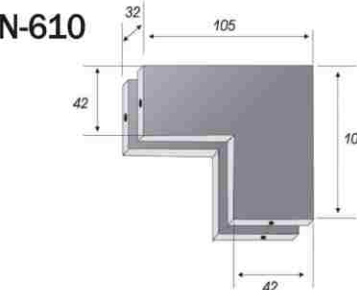
NHN-3 BOTTOM PATCH



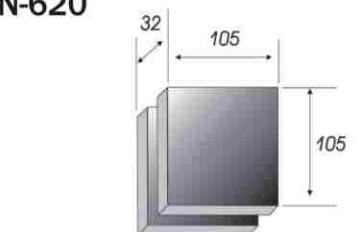
NHN-4 OVERPANEL PATCH



NHN-610



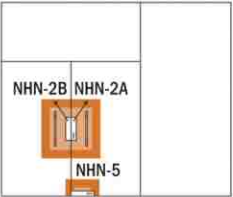
NHN-620



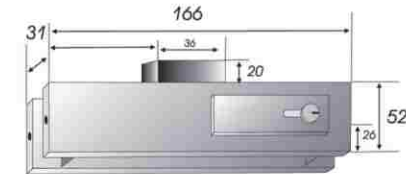
ARCHITECTURAL GLASS FITTINGS

PATCH FITTING / PATCH LOCK

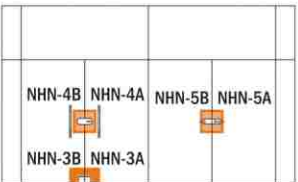
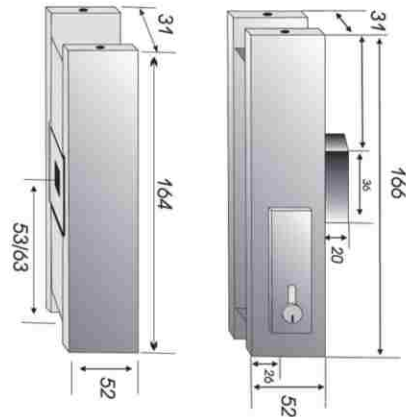
PATCH FITTING



NHN-5 PATCH LOCK

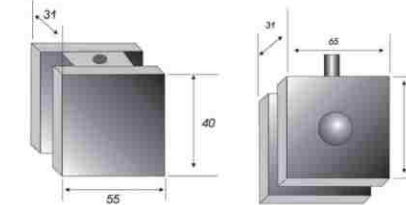


NHN-2A, 2B CENTER LOCK

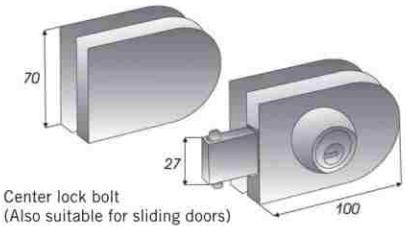


NHN-3A, 3B

TURN KNOB LOCK & STRIKE BOX



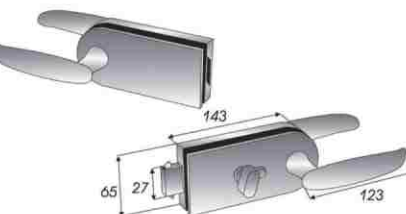
NHN-4A, 4B CENTER LOCK



Center lock bolt
(Also suitable for sliding doors)



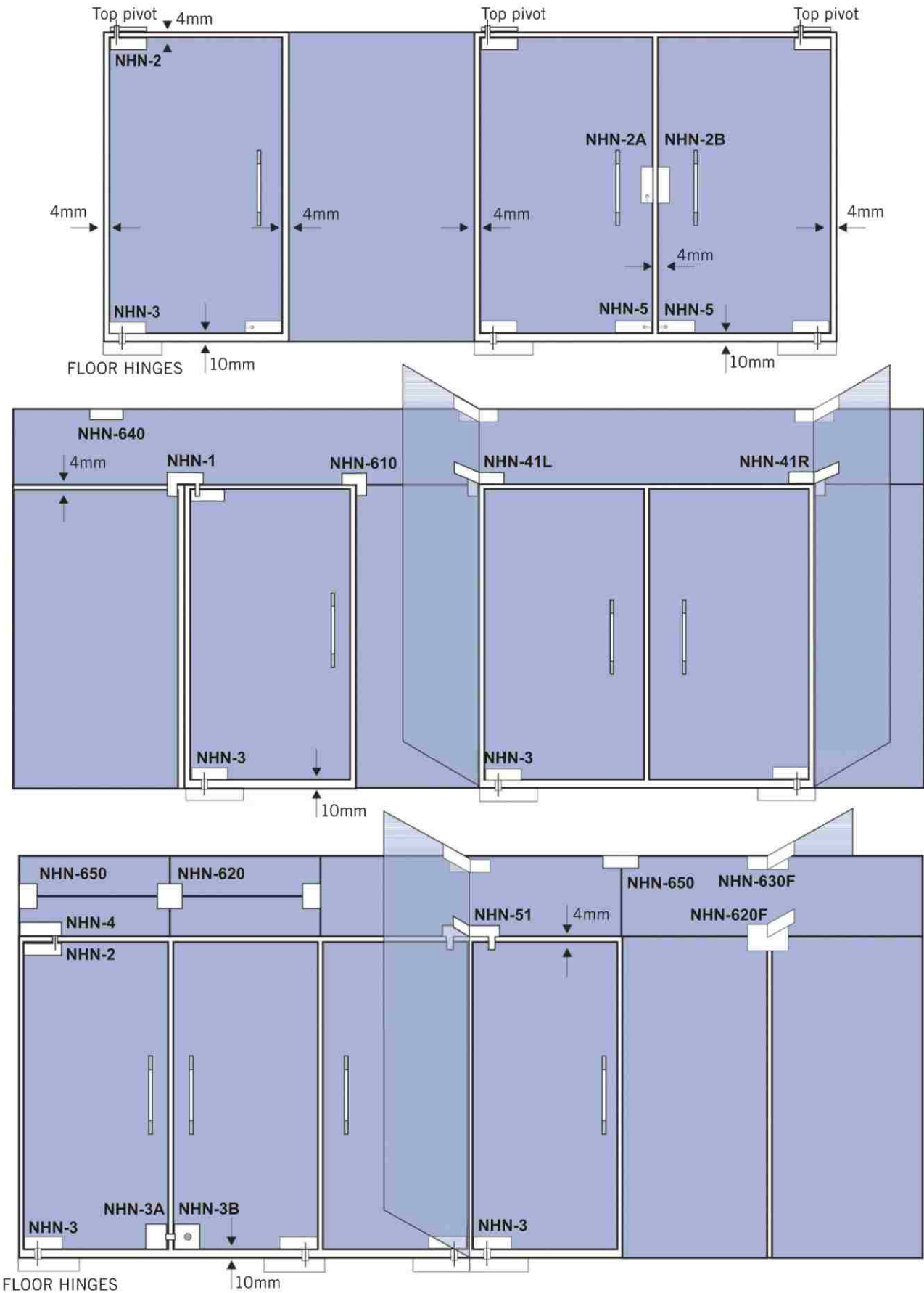
NHN-5A, 5B CENTER LOCK WITH HANDLE



Architectural Glass Fittings

PATCH FITTING / PATCH LOCK

PATCH FITTING APPLICATIONS FOR FRAMELESS GLASS DOORS & TEMPERED GLASS ASSEMBLIES



FIRE EXIT PANIC BARS

Single & Double Doors

Our Exit Devices meet the demand for superior emergency hardware. These Durable devices are designed to meet the need of modern Touch Bar Styling for heavy traffic applications by eliminating the need for lever arms and cross bars. All our exit devices are suitable for use at emergency exit in sky-high office buildings, shopping centers, supermarkets, theaters, hospitals, hotels, stations, airports, all commercial or public buildings, etc.



Features:

- Reversible surface mounted type.
- Non-handed and field sizeable.
- High density rust-resistant alloy or steel with coating head cover.
- Slight pressure retracts latch bolt for immediate exit.
- Latch bolts can be held retracted by locking touch bar during business hours.
- Auxiliary guarded latch deadlocks latch bolt when door is closed.

APPLICATIONS:

- Available for 1 1/4" to 2 1/4" thick doors, up to 4' wide.
- For use on single or double swinging hollow metal doors.

Lengths:

- Standard Device : 33" or 36"
- Long Device : 42" or 48"

Material and finishes:

- Body, Touch Bar, Head Cover & End Cap
- Aluminum painted steel, Duranodic painted steel.
- Brass plated steel (Us3), Satin chrome steel (US26D).
- Bright Stainless steel (Us32), Satin Stainless steel (Us32)

Latch Bolt:

- Stainless steel



Vertical Rod Type



L-Same as Rim Type.

Y-Can Supply with your desired length if be advised actual door height. The length of top rod is adjustable, it can be adjusted the length to meet door height covering 3 rangs such as 2100-2400, 2400-2700. 2700-3000mm.



OUR ESTEEMED CLIENTS

