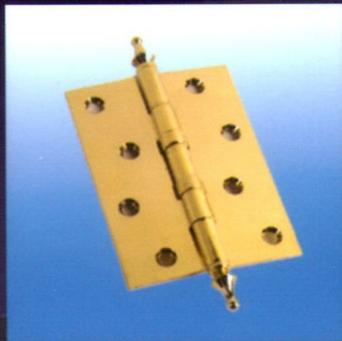
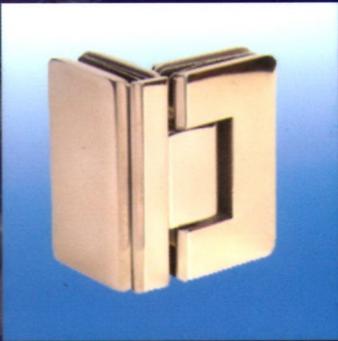
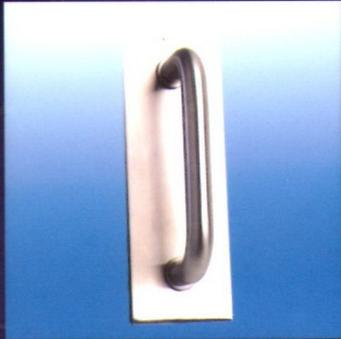


LB40mm (STANDARD TYPE)  
L1140mm (WIDE TYPE)



# PPY

PRODUCTS CO., LTD.



Starting Point

OPENING

CLOSED



## 80 Series

Surface Mounting Type

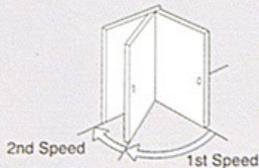
Standard Installation



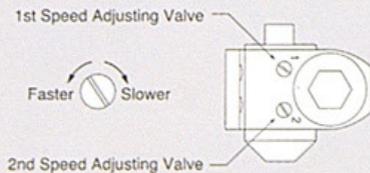
### Door Closing Speed Adjustment

#### Closing Speed Adjusting Valves

Trouble-free adjusting of speeds by simply turning the speed adjusting valves to the right or left.



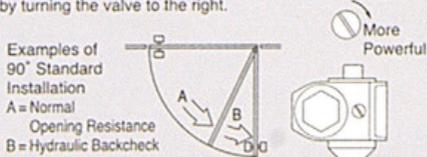
#### Adjustment of 1st and 2nd Speeds



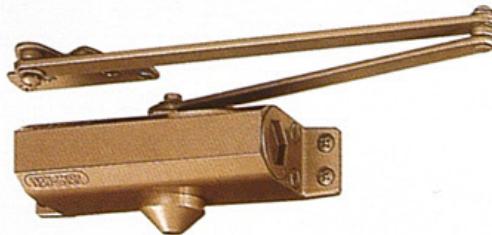
#### Backcheck Function (Optional)

This feature controls the opening swing of a door which has been pushed open with excessive force through heavy winds or rough treatment.

The backcheck function makes the 80 Series an ideal choice for exterior doors opening outwards. Moreover, the backcheck function can be adjusted to work more powerfully by turning the valve to the right.



### Parallel Arm Installation



### Colors

- Silver (N-01)
- Ivory White (N-04)
- Burnt Umber (N-52)
- Clear Gray (N-62)

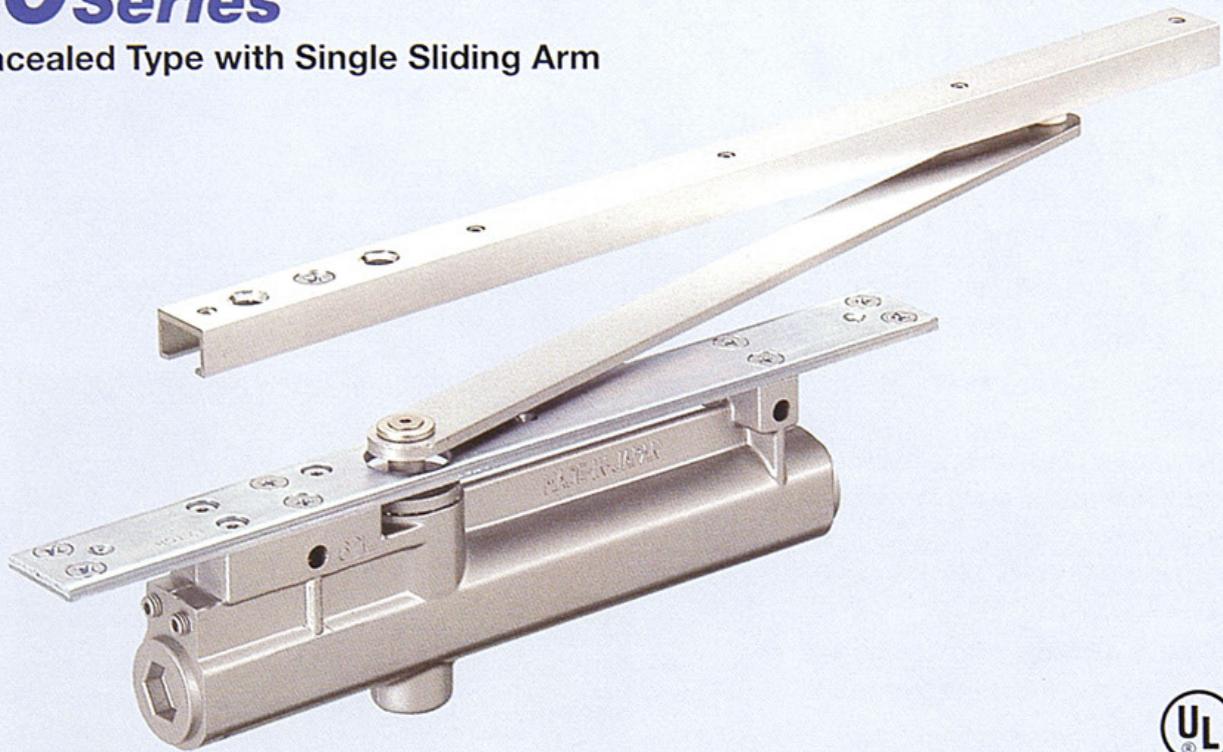
- A horizontal door closer refined by continued research into a product of the finest quality.
- Different models to fit different door sizes. Each of these models is available for either standard installation or parallel arm installation. Further, a choice can be made between a closer with or without a hold-open device.
- Simple inversion of the main body (turning upside-down) allows installation on both right hand and left hand doors.

Model Number				Applicable Door Dimensions DW×DH mm	Maximum Door Weight kg
Standard Installation		Parallel Arm Installation			
Without Hold-open	With Hold-open	Without Hold-open	With Hold-open		
81 · 81BC	181 · 181BC	P-81 · P-81BC	P-181 · P-181BC	800×1800	30
82 · 82BC	182 · 182BC	P-82 · P-82BC	P-182 · P-182BC	900×2100	45
83 · 83BC	183 · 183BC	P-83 · P-83BC	P-183 · P-183BC	950×2100	65
84 · 84BC	184 · 184BC	P-84 · P-84BC	P-184 · P-184BC	1050×2400	85
85 · 85BC	*185 · 185BC	P-85 · P-85BC	P-185 · P-185BC	1200×2400	120
86 · 86BC	*186 · 186BC	P-86 · P-86BC	P-186 · P-186BC	1800×2700	180

(Note) • In the case of standard installation, the maximum hold-open angle is 120°. (180° for parallel installation.)  
 • Those models marked with an asterisk (\*) are handed.  
 • For installation on fire doors, select a closer with a temperature fuse.

## 60 Series

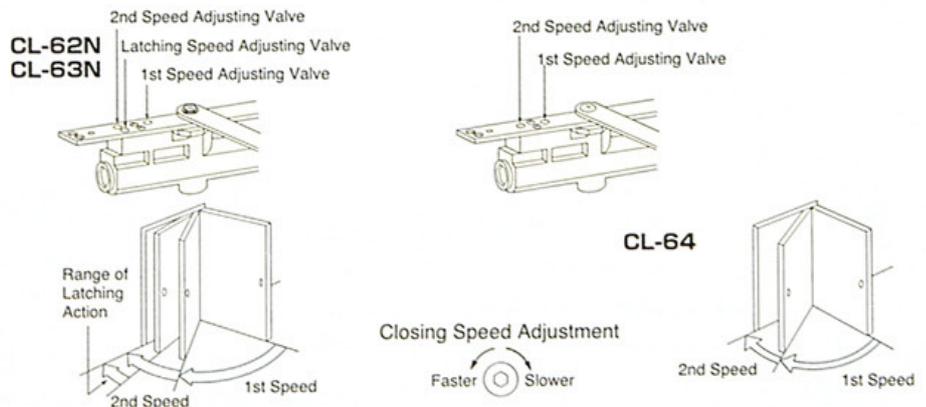
Concealed Type with Single Sliding Arm



### Door Closing Speed Adjustment

**Speed Adjusting Valves**  
 Trouble-free adjusting of speeds by simply turning the speed adjusting valves to the right or left.

### Adjustment of Closing and Latching Speeds



- A thin concealed-type door closer.
- The main arm slides in a guide rail attached to the top jamb.
- A check in advance is necessary to determine whether size of the top jamb is sufficient to accommodate the guide rail.
- The hand of the door should be determined before installation, since this model comes in two types, for right and left hand doors.

	Model Number		Applicable Door Dimensions DW×DH mm	Maximum Door Weight kg
	Without Hold-open	With Hold-open		
Single Sliding Arm Type	CL-62N	CL-162N	900×2100	45
	CL-63N	CL-163N	950×2100	65
	CL-64	CL-164	1050×2400	85

• Maximum door opening angle: 95° for CL type.

# DOOR CLOSER

## Surface Mount

millenium

# 7000 Series

- COMMERCIAL AND RESIDENTIAL USE-ENGINEERED CLOSERS
- DUAL VALVE CLOSING & LATCHING SPEED CONTROL
- PRECISION HEAVY DUTY RACK (PISTON) & PINION GEARS
- U.L. LISTED AND FIRE TESTED IN ACCORDANCE WITH BS 476
- 2, 3, 4, & 5 RANGE OF DOOR CLOSER SIZE
- OPTIONAL BACK AND HOLD OPEN ARM

### FEATERS

#### EASY SPEED CONTROL

Separate regulating dual valves for closing & latching speed control.

#### OPTIONAL BACK CHECK FUNCTION (BC)

Protect door and hardware from damage in opening cycle.

#### UNIVERSAL MOUNTING

Non handed reversible and can be mounted in the REGULAR.

TOPJAMB, and PARALLEL ARM, mounting applications.

#### HIGH STRENGTH CAST ALUMINIUM BODY

7000 series bodies are constructed of a special aluminium alloy for non-corrosive, long lasting durable housing

#### ADJUSTABLE FOREARM

Reinforced type adjustable arm for easy installations.

#### PRECISION RACK & PINION GEARS

Heat treated special alloy carbon steel materials for the highest quality and durability.



### CLASSIFICATION & GLOSSARY

7200: Size 2

7300: Size 3

7400: Size 4

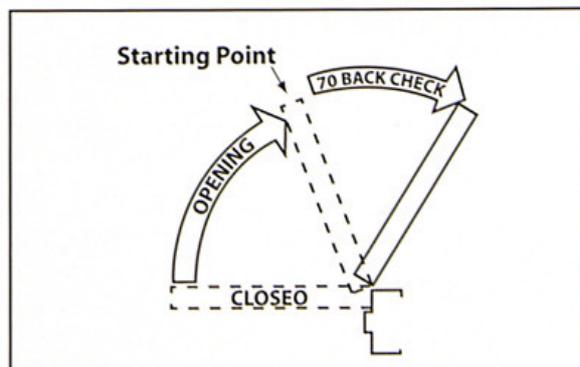
#### OPTIONAL ITEMS

C: Decorative P.V.C Slim Cover

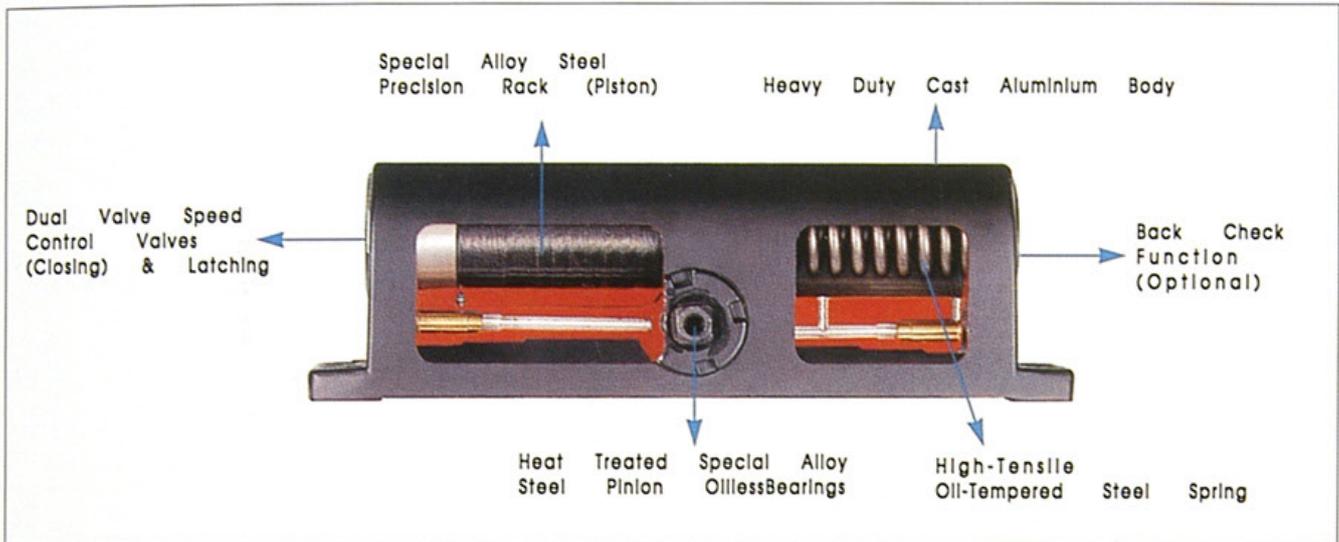
P: Parallel Arm Bracket

BC: Back check

### BACK CHECK CONTROL



## Part Name



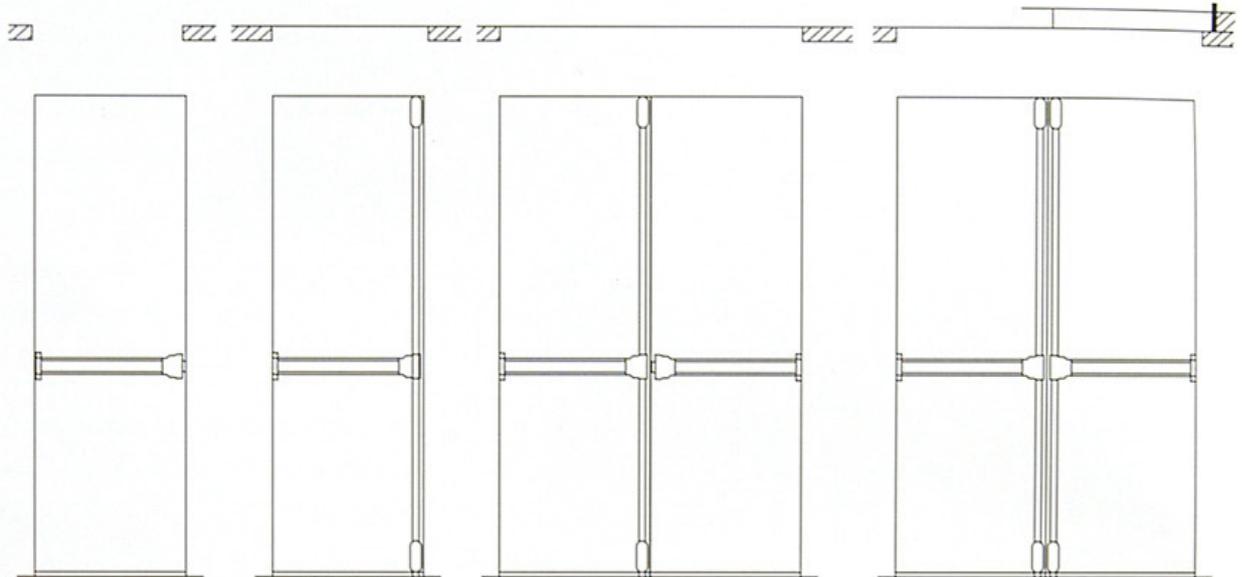
## Dimensions

Description	Size		
	2	3	4
A: Length of Closer Body	225mm	225mm	247mm
B: Horizontal Mounting Holes	208mm	208mm	230mm
C: Vertical Mounting Holes	19mm	19mm	19mm
D: Closer Body Height	50mm	50mm	50mm
E: Projection from Door	73mm	73mm	73mm

## Door Closer Selections

Door Closer Model	Applicable Door Size			Applicable Door Weight
	Interior Door	Exterior		
		Swing Out	Swing In	
7200	36"	32"	28"	66-99Lbs
	(0.91m)	(0.81m)	(0.71m)	(30-45 Kgs)
7300	42"	36"	32"	99-143Lbs
	(1.07m)	(0.91m)	(0.81m)	(45-65 Kgs)
7400	48"	42"	36"	143-187Lbs
	(1.07m)	(0.91m)	(0.81m)	(65-85 Kgs)

# PANIC EXIT DEVICES



Single Leaf Door:  
Side latch device

Single Leaf Door:  
Top and bottom  
latch type device

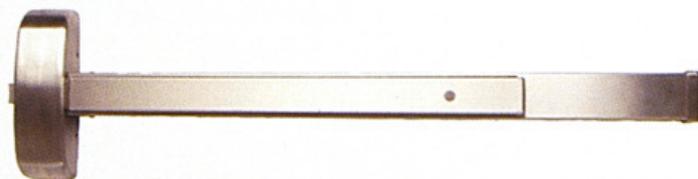
Double Leaf Door:  
1 Side latch type device  
and 1 top and bottom  
latch type device

Double Leaf Door:  
2 top and bottom latch  
type device

## Finish



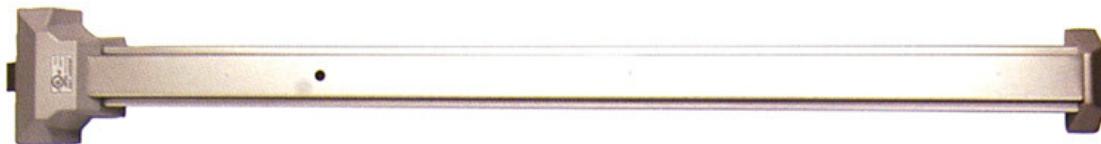
Aluminum (AL) No.80



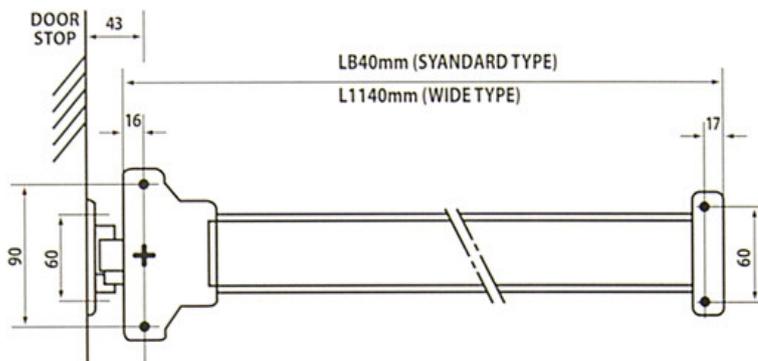
Stainless No.9000



Steel No.5000

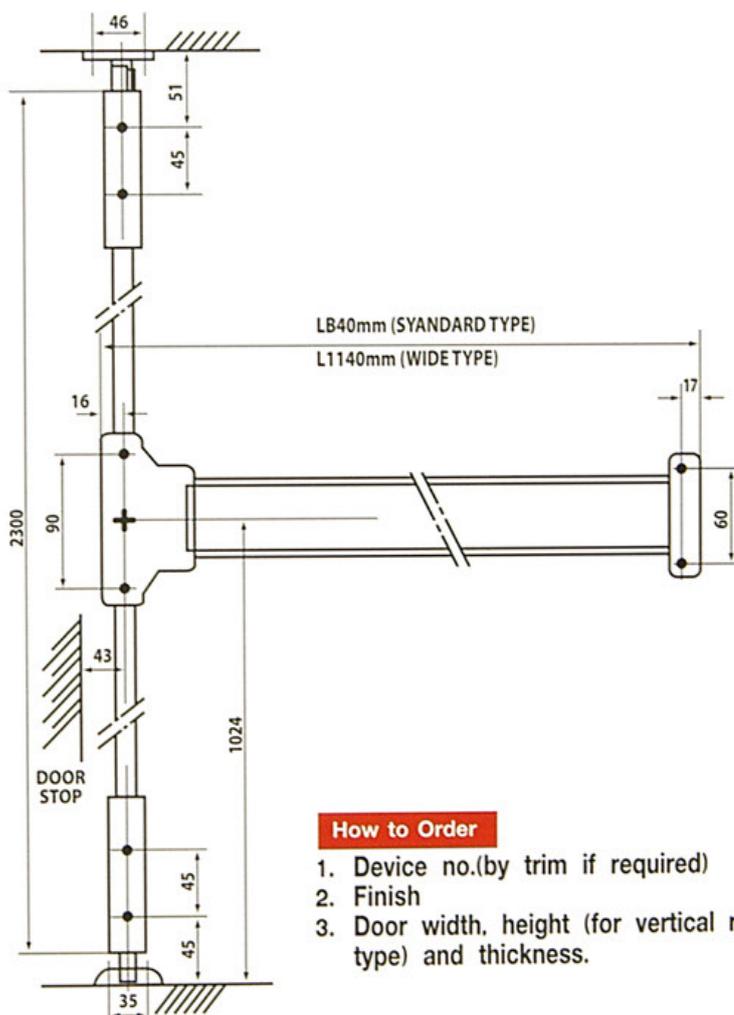


## 80 Series (side latch type)



## 80V series (top and bottom latch type)

- Material:** Horizontal push of extruded anodised aluminum, latch bolt of stainless steel.
- Latch Bolt:** 19mm throw. Pullman type with deadlocking latch.
- Operation:** Inside by slight pressure on any point on the crossbar at all times.
- Hand:** Univeral. non-handed.



### DEVICE SIZES:

Door Range

Standard Type: 700 mm to 900 mm

Wide type: 900 mm to 1200 mm

### How to Order

1. Device no.(by trim if required)
2. Finish
3. Door width, height (for vertical rod type) and thickness.

Key retracts knob	Key unlocks lever
	
82/82v	85/85v

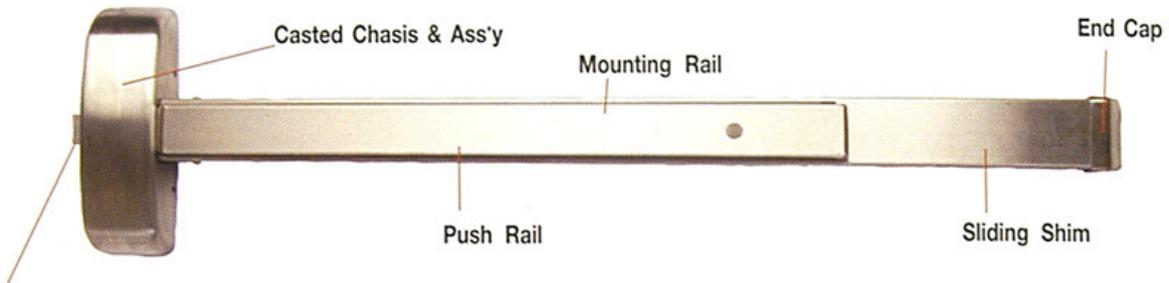
Product Description

# Panic Fire Exit Device

## No.9000 (Stainless Steel)

### Specifications

- For Doors..... 1 3/4" thick standard optional 2 1/4" thick 4 1/2" minimum stile width required for single or double door application using standard 239 strike and pull or lever trims.
- Chassis..... Nonferrous alloy (Panic Grade), steel (Fire Grade).
- Cover..... Drawn stainless steel, steel, or brass. Cover stock hollow metal doors with 161 cutout.
- Mounting..... Furnished stainless with wood and machine screws. Available with thru bolts on request.
- End..... Steel construction.



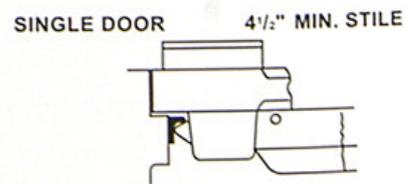
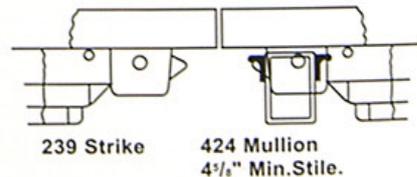
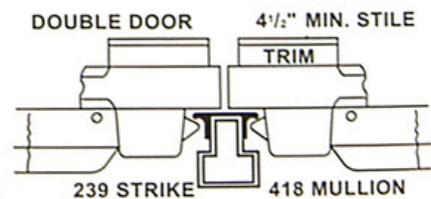
3/4" Stainless Steel Latchball

- Alarm..... Available.
- Hand..... Non handed, center hub.
- Latch Bolt..... Stainless steel 3/4 throw.
- Spring..... Stainless steel throughout.
- ANSI standard..... A156.3, Grade 1.
- Rail Assembly..... Heavy gauge steel, painted.
- Strike..... 239 packed standard (see strike page).
- Dogging Feature..... Allen-type key furnished standard on non-frie labeled devices. Cylinder dogging available.
- Mullion..... Available.
- UL and ULC Listed..... 9000 Series for fire exit hardware for all types of 4' x 8' single door and 8' x 8' double doors for up to 3 hours fire labeled, conforms to standards UL 10C and UBC 7-2-1997 codes.
- Finish..... Polished Bright Stainless (US32) Polished Brass (US3)

### Dimensions

Touchbar height to finished floor	41" (1043 mm) at center
Touchbar projection	
neutral	2 1/2" (64 mm)
depressed	1 3/4" (45 mm)
Center case	8 1/2" x 2 1/2" x 2 (216 mm x 63.5 mm x 52 mm)
Device length-Short 3' (914 mm)	2' 9" x 3' (840 mm to 914 mm) door size
Long 4' (1219 mm)	2' 9" x 4' (1145 mm to 1219 mm) door size

Minimum Stile Requirements  
4" escutcheon trims & 4 1/2" for thumbpiece and rose trims

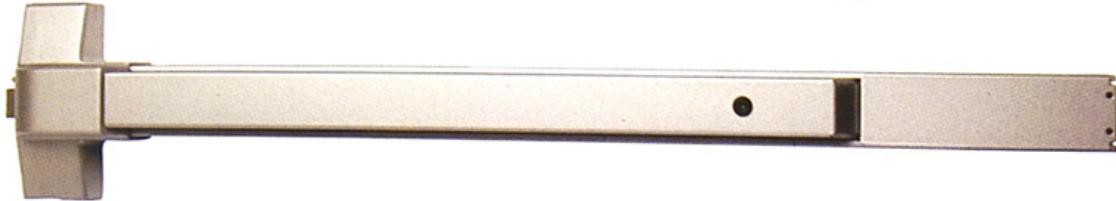


# Panic Rim Exit Device

## No.5000 (Steel)

An universal Non-Handed Exit Device with Security Guarded bolt, for all applications where labeled door used as exits, listed

- Panic Hardware in the accident Equipment
- Fire Exit Hardware and UL10C, UBC 7-2-1997 codes



### Specifications:

Conforms to Ansi STD  
A156.3 Grade 2

For Doors..... 1 3/4" thick standard. Also usable on 1 3/8 to 2" thick doors.(specify when other than 1 3/4" thick). Door widths from 30"-48".

Stile..... 4 1/2" minimum stile.

Mounting..... Furnished with wood & machine screws and SNB's.

Covers..... Zinc or stainless steel.

Chassis..... Steel or stainless steel.

Rail Assembly..... Steel or stainless steel.

End Cap..... Steel or stainless steel.

Hand..... Non Handed. Trim reversible.

Latch Bolt..... Stainless steel 3/4" throw.

Dead Latch Bolt..... Stainless steel 5/8".

Cylinder..... Brass, rim-type, 5-pin, 2 keys.

Strike..... 5/8" stop plus shim for 1/2" stop.

Dogging Feature..... Allin-Key. (Not permitted on Fire Rated mode).

Mullion..... Removable Mullion & Fire Exit Mullion.

ULC Listed..... For "Panic Hardware" and Fire Rated model 3 hour for use on doors up to 38" x 86".

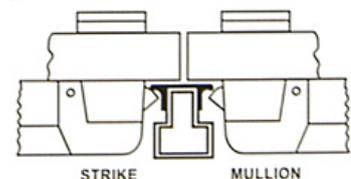
ANSI Standard..... ANSI 156.3-the 5000 series is built to conform to this standard.

Finishes..... Painted : Aluminum, Bronze, Duronodic.

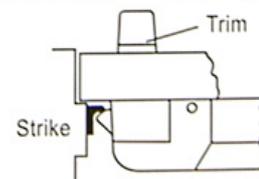
Plated : Highly polished brass or chrome.

### Minimum Stile Requirements

DOUBLE DOOR 4 1/2" MIN. STILE



SINGLE DOOR 4 1/2" MIN. STILE



### Dimensions

Touchbar height to finished floor 41" (1043 mm) at center

Touchbar projection

neutral 2 1/2" (64 mm)

depressed 1 3/4" (45 mm)

Center case

6" x 3-3/4" x 2 1/2" x 2  
(153 mm x 94 mm x 64 mm)

Device length-Short 3' (914 mm) 2' 9" x 3' (840 mm to 914 mm)

door size

Long 4' (1219 mm) 2' 9" x 4' (1145 mm to 1219 mm)

door size

# Trim Selection

## Escutcheon

### Construction

Grade 1, thru-bolted design, clutch freewheeling. Non-handed design. Easily field reversible. Hardened steel heavy-duty tailpiece. Available for fire and non-fire rated rim and vertical rod exit devices.

### Finished

Power coated aluminum (alum)  
Power coated dark bronze duranodic (duro)  
Power coated glod

### Door Thickness

Standard 1 3/4".

### Escutcheon Dimensions

2 5/16" width x 8 1/2" x 8 1/2" length. Lever length: 4 3/4".  
Fits and covers 2 1/8" 161 cutout.

### ESC-00 Entrance

Key lock or unlocks thumbpiece.

ANSI Function - 13 / 63

### ESC-05 Storeroom

Key retracts latchbolt, otherwise always locked.

ANSI Function - 04

### ESC-30 Passage

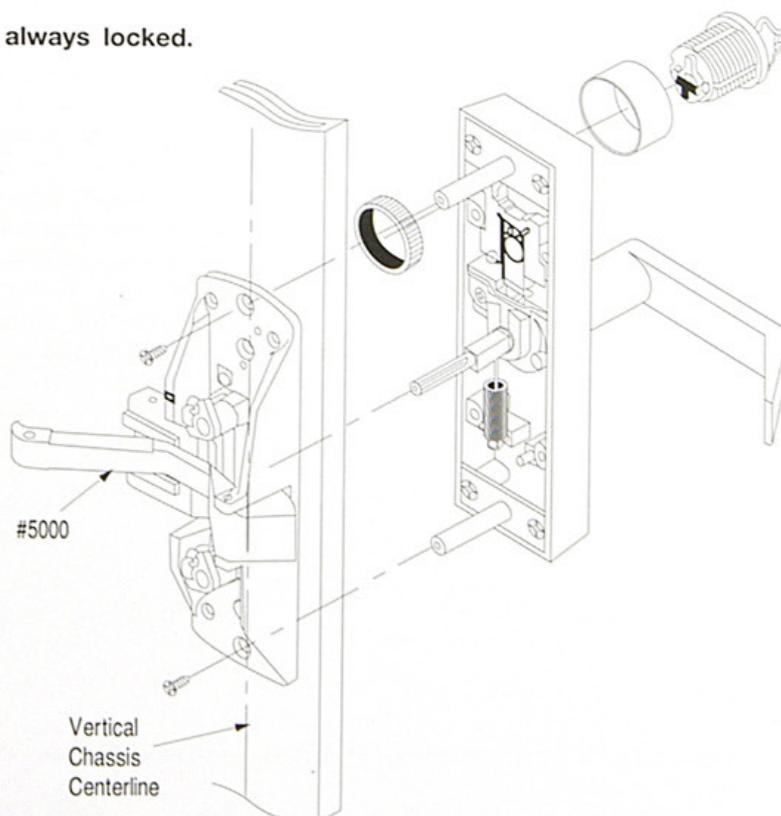
Trim always operable and free.

ANSI Function - 15 / 62

### ESC-40 Dummy

Tummy trim. One sided.

ANSI Function - 10



### Keyway :

Standard 6-pin "C" keyway. Also available in Schiage C-K, Russwin D1, Corbin 60, Sargent LA, Falcon/Weiser E, Arrow, Yale GA, Yale 8, Kwikset. Can also accept Medeco, Assa, and Kaba high security cylinders.

### Interchangeable Core

Interchangeable core locks will accept compatible 6 or 7 pin cores with BEST, FALCON and ARROW.

# DEAD BOLTS

Yank deadbolt is light-duty tubular deadlock developed for easy installation as an auxiliary lock. The lock case is resistant to corrosion, and hardened steel parts are pick and drill resistant. Available in various finishes.

## **Finishes :**

**US32** – Bright, no coating

**US32D** – Satin, no coating

**US5P** – Antique brass, clear coated

**US11P** – Antique copper, clear coated

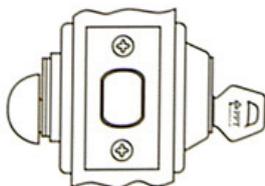


*Inside*

*Outside*

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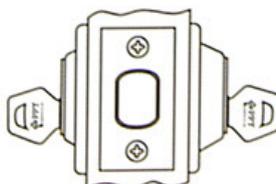
## Single Cylinder



The lock is operated by key from the outside and by a thumbturn from the inside. The cylinder and turnpiece are secured into square hole.

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## Double Cylinder



The lock is operated by key on both sides. Suitable for glass doors or with doors close to shutters.

---

# **KNOB**

Yank lock finishes are durable and obtained by strict controlled processing of bronze, brass stainless steel and treated steel in making exposed trim or inside parts. Where required, a protective clear-coating is electrically applied and cured in a high temperature inflaming oven. However, climatic conditions and usage should be taken into consideration when determining the finishes to be applied, especially in areas subjected to strong corrosive vapors, humid climate, sea air or salt spray, where the materials are easy to be damaged even proper protection is made on metals.

## **Finishes :**

**US32** – Bright, no coating

**US32D** – Satin, no coating

**US5P** – Antique brass, clear coated

**US11P** – Antique copper, clear coated

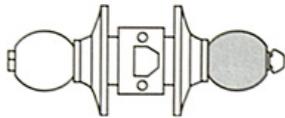


## **KNOB DESIGNS**

# Functions

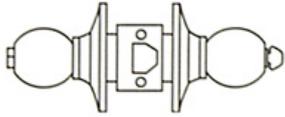
## *Inside Outside*

**G04**  
Storeroom  
Service station



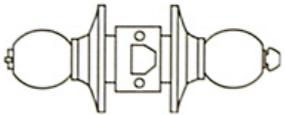
By key outside, by knob inside; outside knob fixed always. Inside knob free always for Immediate Exit. Deadlocking by guarded latchbolt.

**G25**  
Entrance all  
purpose



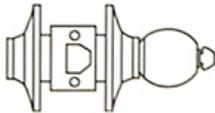
By knob on both sides. Outside knob locked by pushing button is unlocked by key. Key or inside knob releases button except when universal button depressed and turned by coin inside for locking by closing door. Deadlocking by guarded latchbolt.

**G37**  
Classroom  
Storage



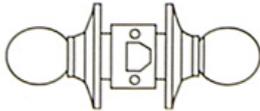
By knob outside except when locked by key outside. Inside knob free always Deadlocking by guarded latchbolt.

**G38**  
Closet



Locked or unlocked by key outside. Inside turnplate free always. Deadlocking by guarded latchbolt.

**U15**  
Patio Exit



By knobs on both sides

**U65**  
Bathroom

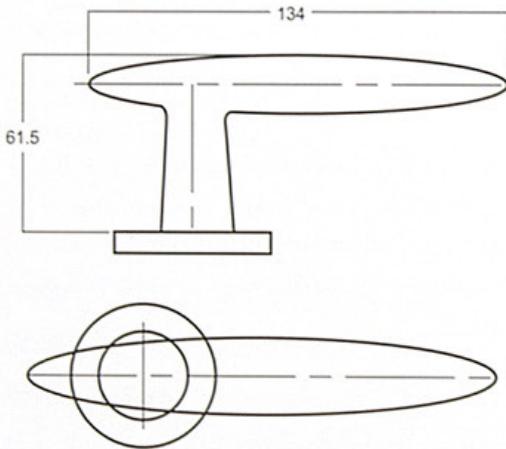
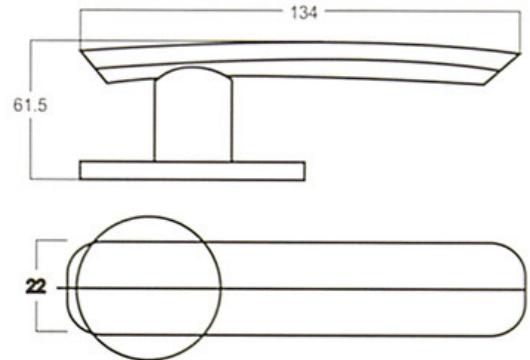


By knobs on both sides. Pushing button inside locks outside knob. Rotation of inside knob or Closing door releases locking. Emergency unlocking by coin or similar tools outside.

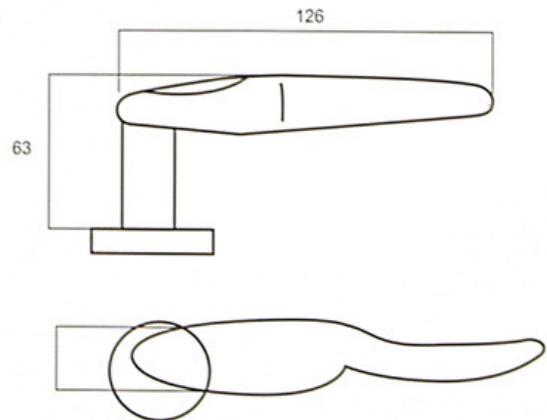
# LEVER HANDLE



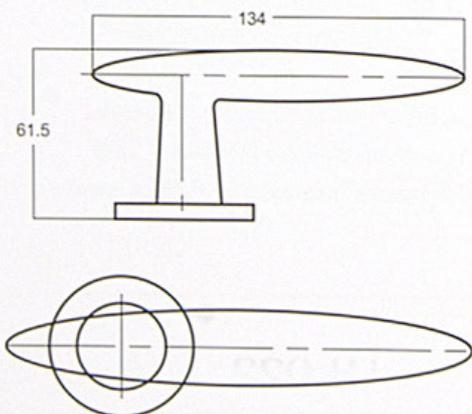
LH 101



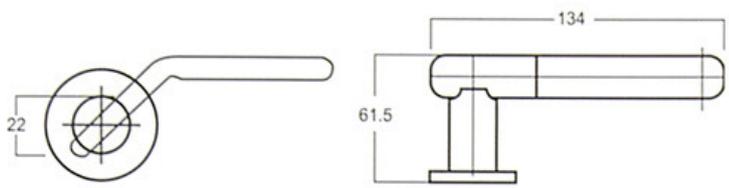
LH 102



LH 103



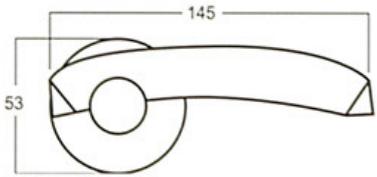
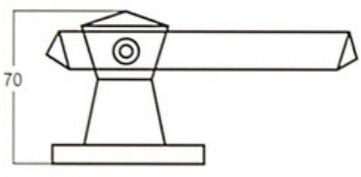
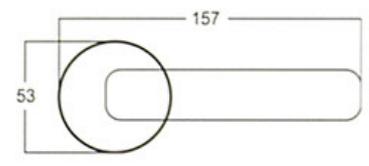
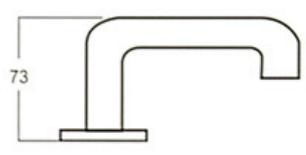
LH 104



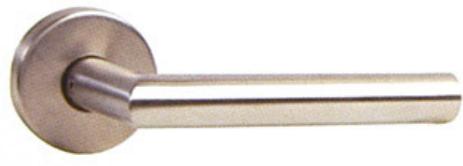
**LH 105**



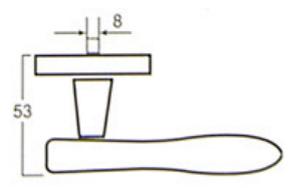
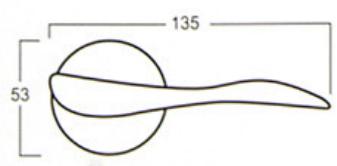
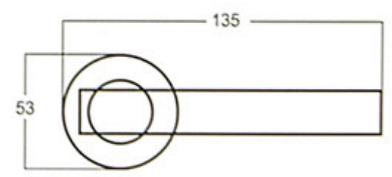
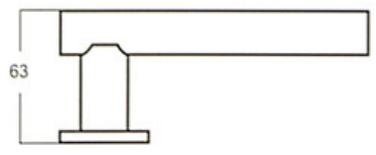
**LH 106**



**LH 107**



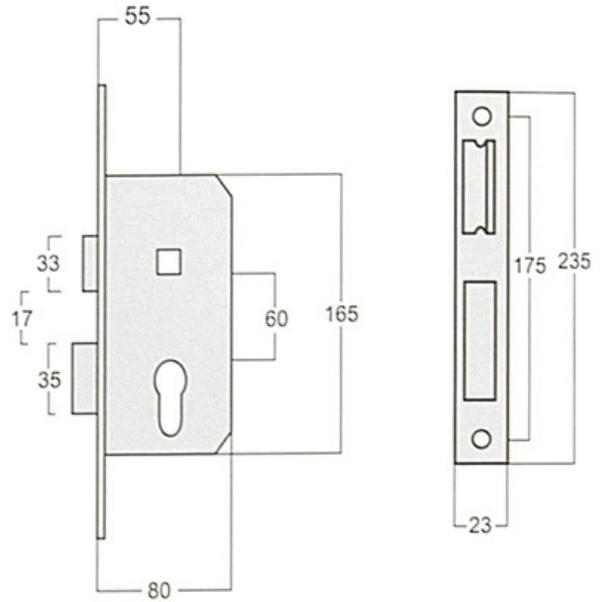
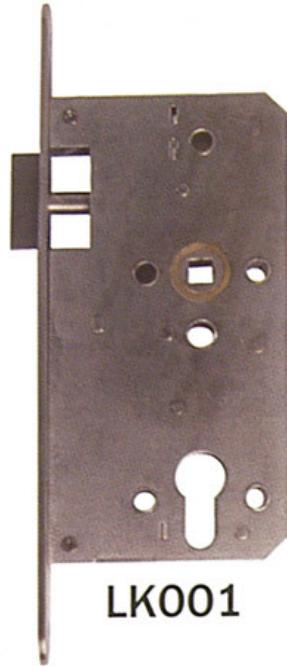
**LH 108**



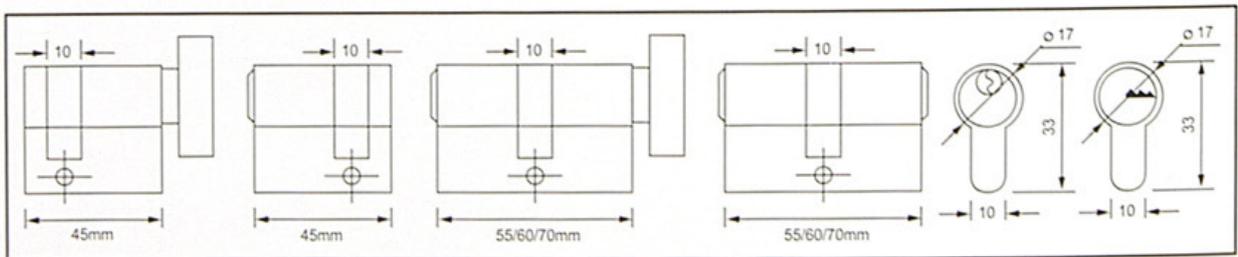
**LH 022**

# LOCKCASE

## Lockcase for Mortise Lock



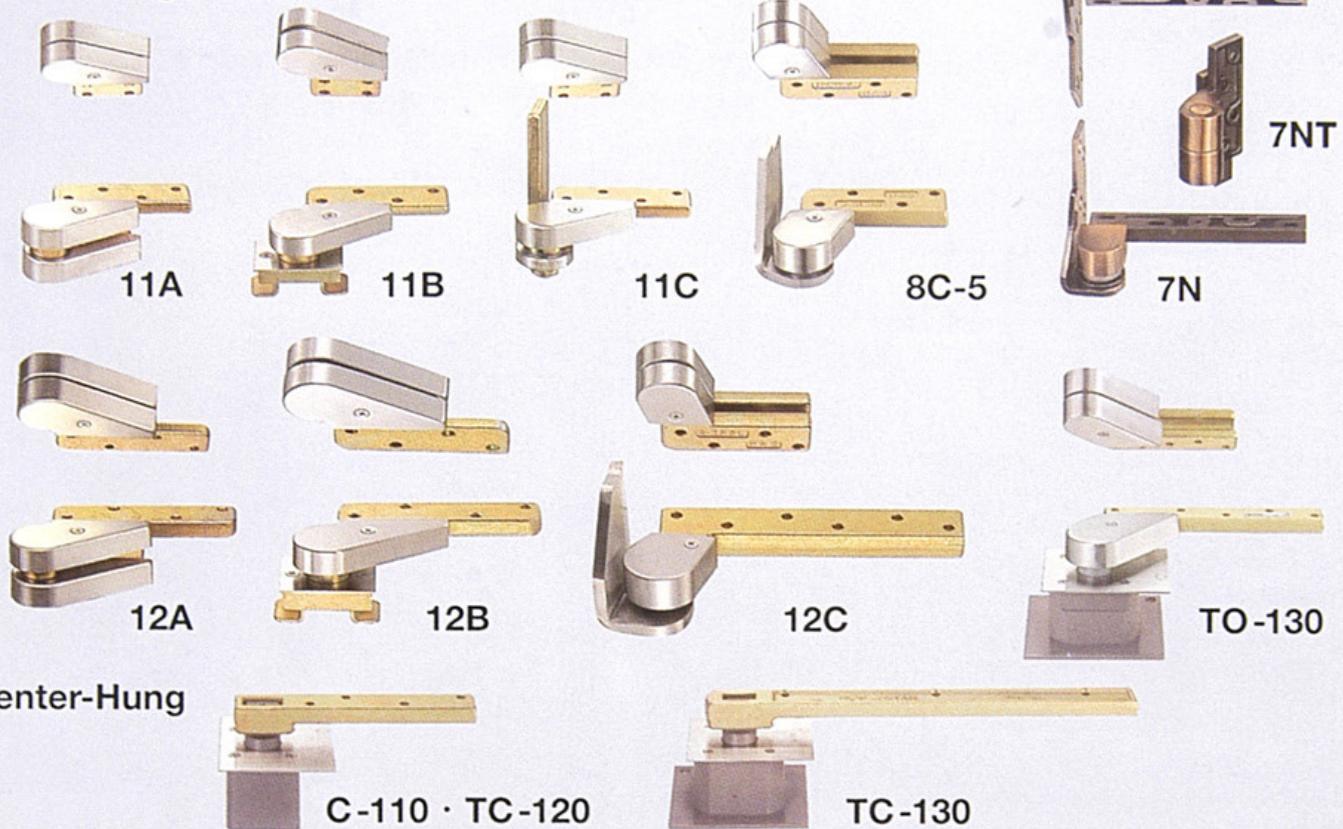
## Cylinder for Mortise Lock



# PIVOT HINGES

# NEW★STAR

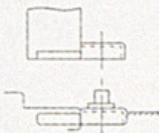
## Offset-Hung



## Center-Hung

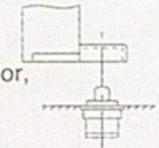
### • Doorsill Inserting Type A

With steel frames, fitting to the doorsill at the factory ensures trouble-free hanging at the actual site.



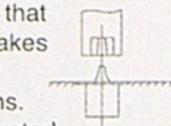
### • Embedding Type B

A shaft embedded in the floor supports the entire weight of the door, ensuring reliable and durable operation.



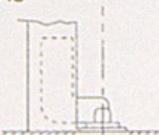
### • Embedding Body Type B

A large cast-iron body that embeds in the floor makes this model suitable for heavy door applications. May be used with fire-rated doors.



### • Jamb-Fixing Type C

Fitting of jamb-fixing type can be completed at the factory. Since there is no need for a shaft to be embedded in the floor, this model is especially suitable when floors cannot be cut away due to carpet or other floor coverings.



- A pivot hinge is a fitting for hanging doors which replaces the traditional butterfly hinge.
- Handed and with offset-hung, pivot hinges are suitable for both interior and exterior doors.
- High rotational resistance ensures constantly smooth opening and closing of the door.
- These hinges show excellent tolerance for heavy use with no dislocation of the hinge shaft or sagging of the door.

Door Type. Hanging Method			Model Number	Applicable Door Dimensions DW×DH mm	Maximum Door Weight kg	Material	Finish	
Offset Hung	For Steel Frames, Doors	Doorsill-Inserting	11A	900×2100	70	Steel	Stainless Cover, Hairline, Finish	
			12A	1050×2100	120			
		Embedding	11B	900×2100	70	Steel	Stainless Cover, Hairline, Finish	
			12B	1050×2100	120			
		Embedding Body	TO-120	1100×2400	185	Steel	Stainless Cover, Hairline, Finish	
			TO-130	1600×2800	300			
		Jamb-Fixing	11C	900×2100	70	Steel	Stainless Cover, Hairline, Finish	
				12C	1050×2100			120
				8C-5	900×2100			90
		For Wooden Frames, Doors	Jamb-Fixing	7N	900×2000	55	Diecast Zinc	Colored Plating
7NT	900×2000			55				
Center Hung	For Steel Frames, Doors	Embedding Body	C-110	900×2100	75	Steel	Stainless Cover, Hairline, Finish	
			TC-120	1100×2400	185			
			TC-130	1600×2800	300			

# Comfort in a widening range of applications

## Nitto Kohki's Auto Hinges of the flag type

They match all kinds of doors and make their images stand out beautifully.

### Flag type

#### 300, 1000, 100, and 200 series

##### Simple design

The hinges double as door closers, thus giving the doors a neat-looking finish. Their simple and beautiful designs match all kinds of doors.

##### A wide range of uses

They can also be used on arch doors that are not readily compatible with other door closers and doors with no head rails.

##### Sufficient door-closing power

The 100 and 200 series incorporate two springs (weak and strong) and a switching mechanism (clutch) for them, thus giving a small but sufficient door-closing power.

##### An internal stop mechanism

The 300 series comes with an automatic mechanism for stopping closings at 85° to 180° (free stops), the 1000 series at 85°, and the 100 and 200 series at 85° and 150°.

##### Simple adjustment of closing speed

The speed can easily be adjusted with the mere use of a screwdriver.

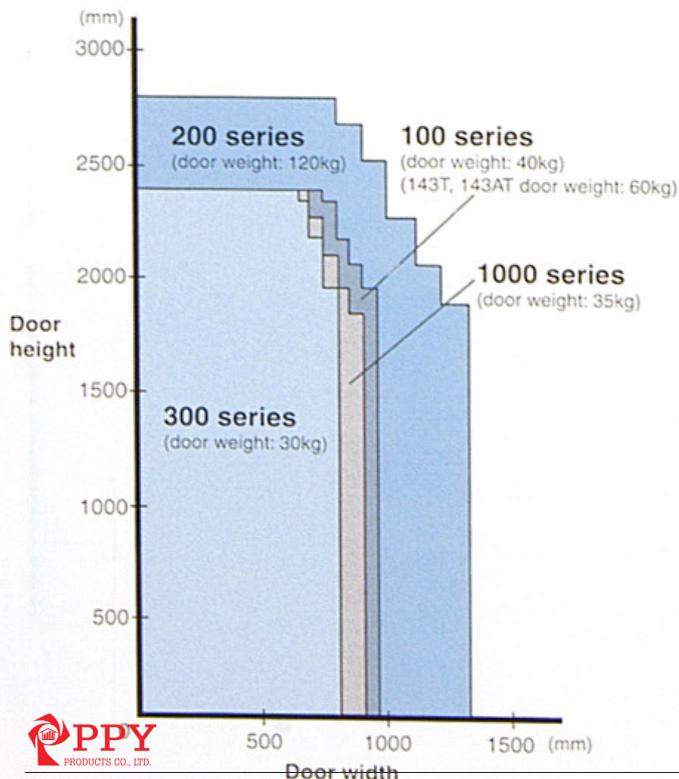
##### Easy to install

These hinges are installed in exactly the same manner as conventional flag-type hinges. They do not require much labor. They are easy to handle.

##### Outstanding durability

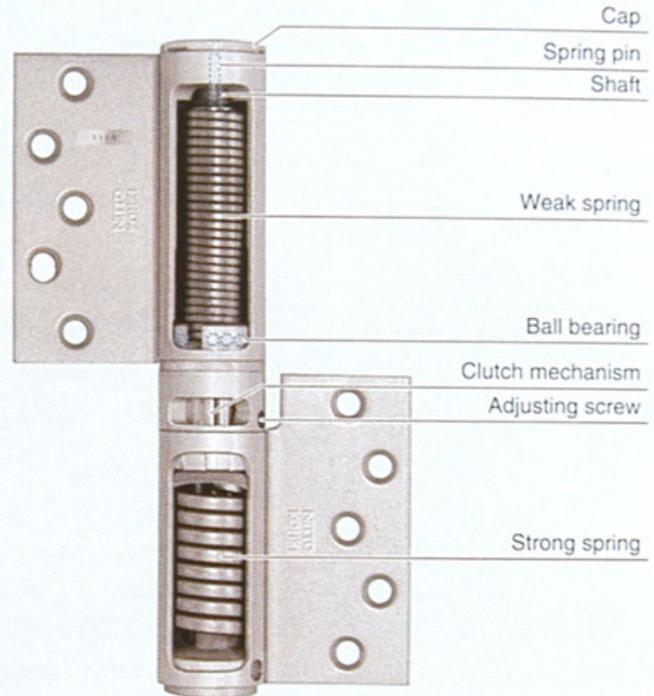
They are so structured as to undergo little friction, thus achieving outstanding durability.

### Table of applicable doors



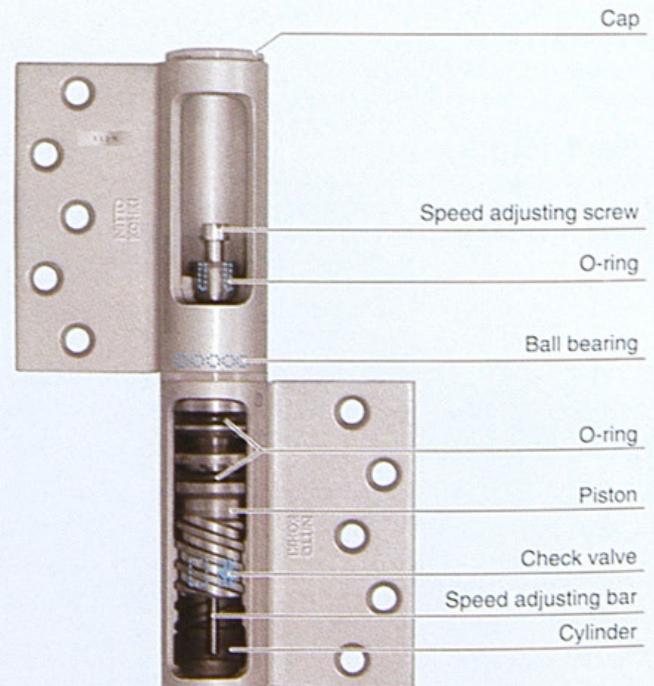
##### Spring hinge

(with an internal self-closing and stop mechanism)



##### Damper hinge

(with an internal control mechanism for closing speed)

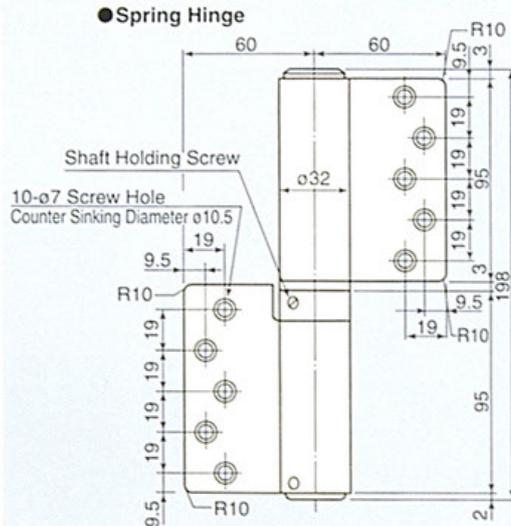


- Each model consists of a spring hinge and a damper hinge.
- This diagram represents the structure of the 100 series.

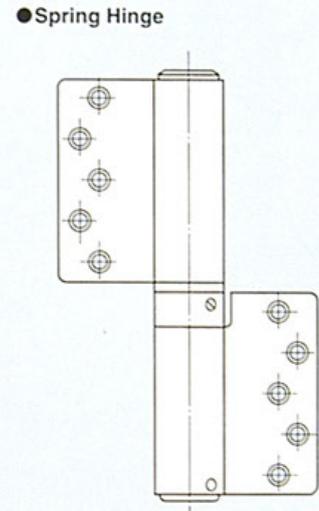
Model Number			Door Size Applicable(mm)			Door Weight (kg)	Closing Force (N·m)	Stop Mechanism	Location of Stop	Max. Opening Angle	Surface Color
Right hand door	Left hand door	W	H	D							
113R	113L	900(Max)	2100(Max)	30(Min)	60(Max)	15.0	—	85° & 150°	180° Left or Right One-side Opening	Silver	
113SR	113SL										
Empty Hinge	110R / 110L										



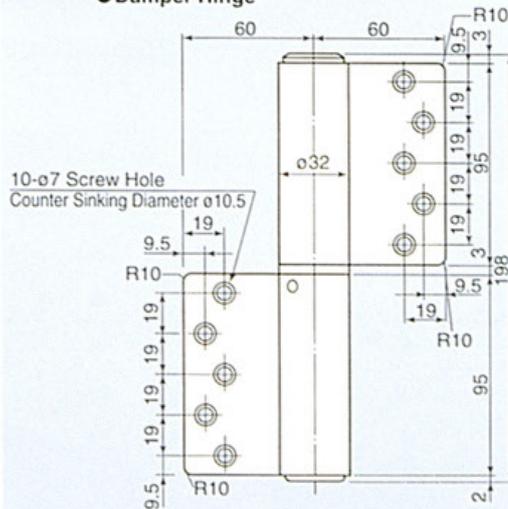
EXTERNAL DIMENSIONS  
Left Hand Door



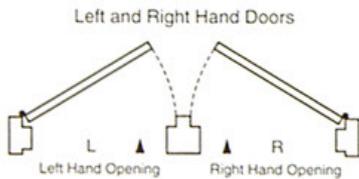
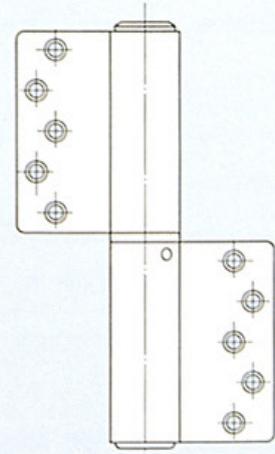
Right Hand Door



Damper Hinge



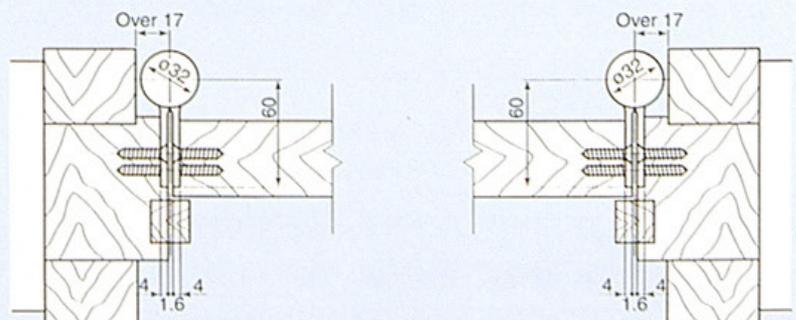
Damper Hinge



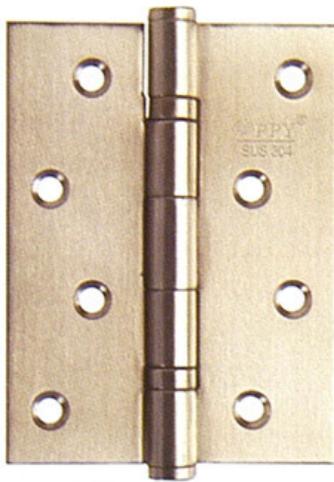
Remarks

1. The door and frame materials to which the hinge is to be fitted should be of hard wood such as lauan or harder.
2. Because the attached screws for fitting are 25mm long, the thickness of the frame should be over 25mm.
3. Allow at least 5mm of space between outer edge of door and frame.
4. The edge type is also available for the corner of leaves.
5. Surface treatment is by a baked coating of melamine resin.
6. Always allow for a door stopper to prevent the door from opening wider than 180°.

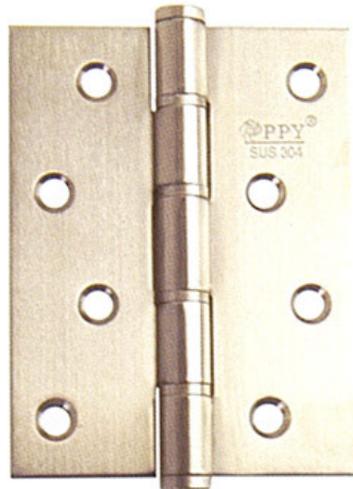
FITTING DIAGRAMS



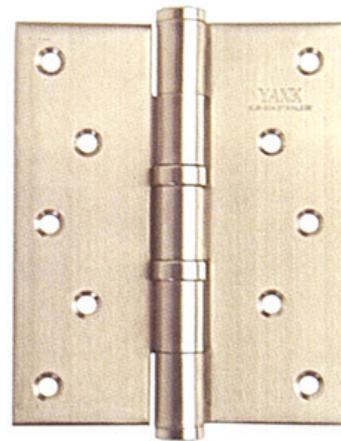
# BUTT HINGE



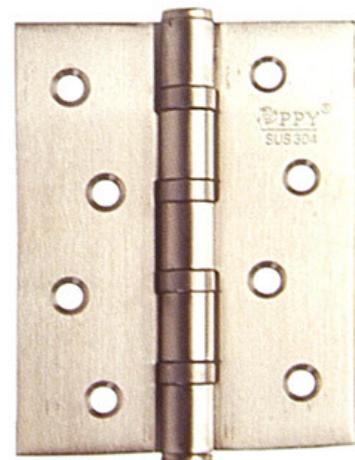
Plain



Washer hinge



2 Ball bearings



4Ball bearings

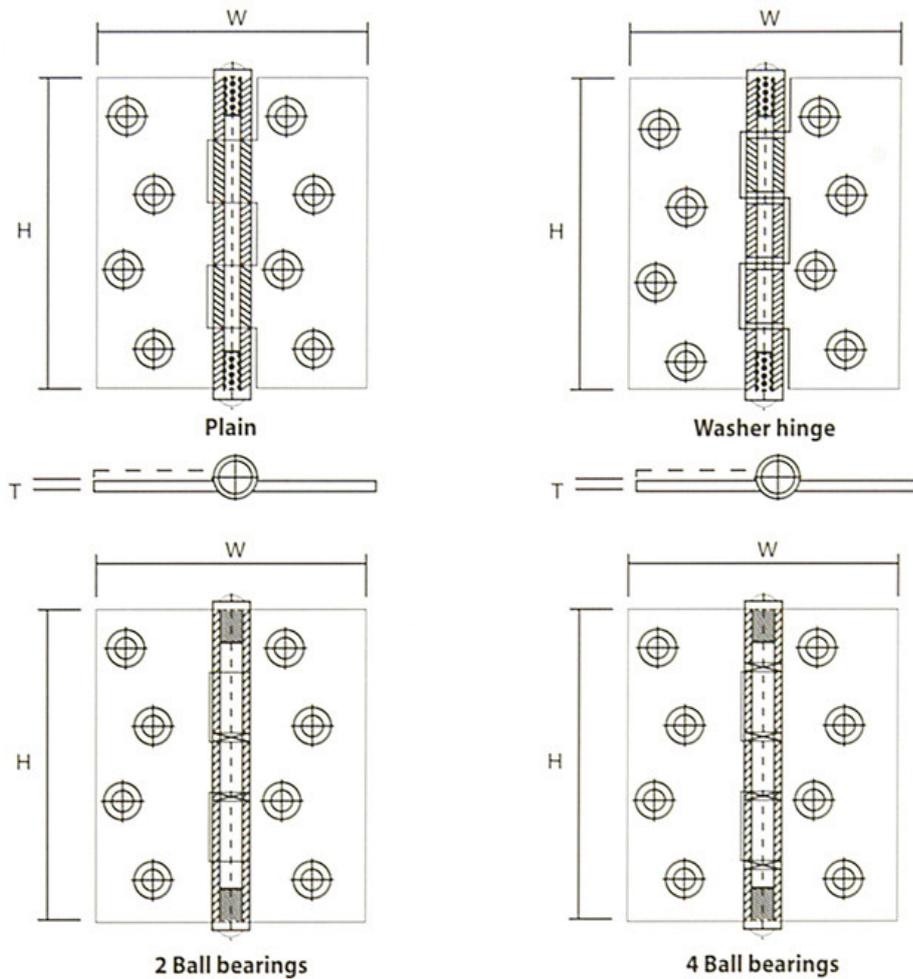
## YANK Stainless Steel Hinge

- For heavy doors or doors where high frequency use is expected,  
such as entrance doors on office buildings,  
stores, public buildings, and corridor doors to offices
- All hinges have screw-hole templates and two sets of screws,  
mounting  
on either wood or hollow metal doors and frames
- For doors receiving heavy traffic, where corrosion resistant  
butt hinges  
are advisable
- Stainless steel butt hinges have stainless steel tips, pins, and  
bearings
- Can be equipped with easily-seated, non-rising pins (NRP), if  
required

RECOMMENDATION: 2 OR 2 1/2 PAIR PER DOOR

- 3.0mm Thickness Hinges: 60~80kgs. Door Weight
- 2.5mm Thickness Hinges: 40~60kgs. Door Weight
- 2.0mm Thickness Hinges: 25~40kgs. Door Weight

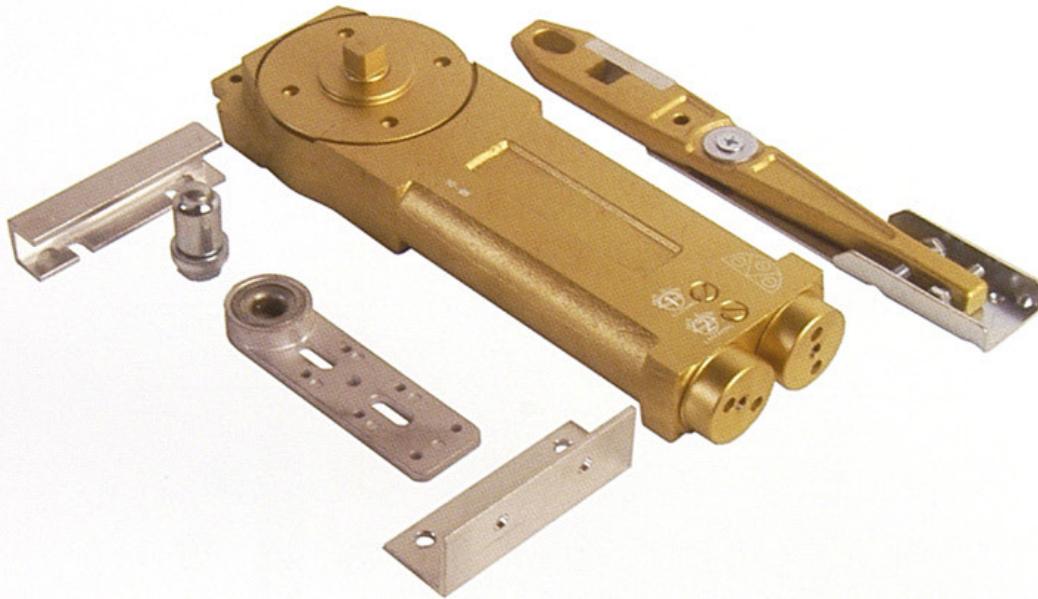
# YANK Stainless Steel Hinge



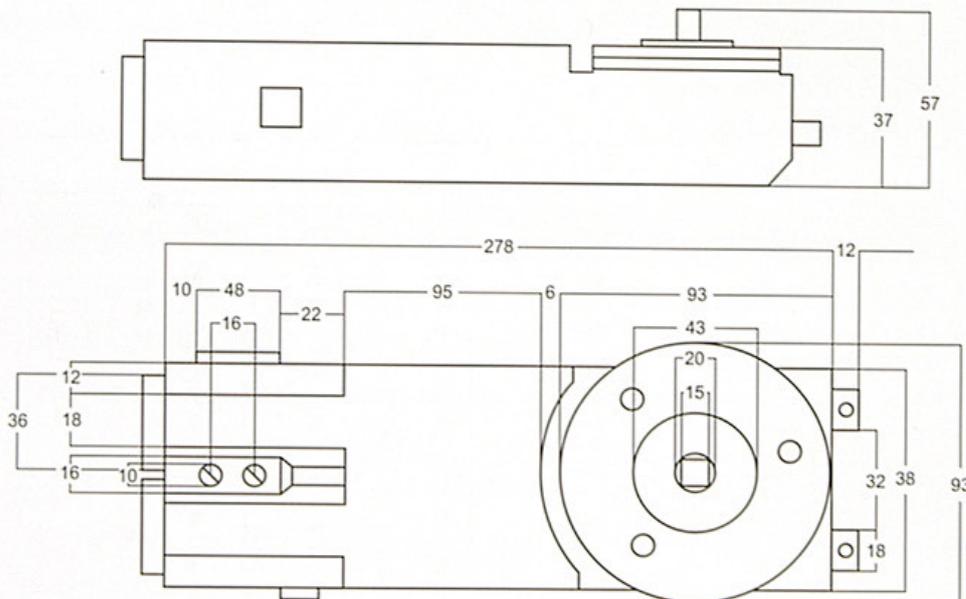
Model	Height	Width(inches)	Thickness(mm.)	Plain	SS	2BB	4BB
4320	4"	3"	2.0	●	●	●	
3520	3.5"	3.5"	2.0	●		●	
4420	4"	4"	2.0	●		●	
3325	3"	3"	2.5	●	●	●	
3525	3.5"	3.5"	2.5	●		●	
4325	4"	3"	2.5	●		●	
4425	4"	4"	2.5	●		●	
35/525	5"	3.5"	2.5	●		●	●
35/3530	3.5"	3.5"	3.0	●		●	
53/530	5"	3.5"	3.0	●		●	●
4330	4"	3"	3.0	●		●	
4430	4"	4"	3.0	●		●	
3530	3.5"	3.5"	3.0	●		●	
4434	4"	4"	3.4	●		●	●
45/430	4.5"	4"	3.0			●	●
45/343	4.5"	4"	3.4			●	●
5430	5"	4"	3.0			●	●

# DOOR CLOSER

## Transom Concealed Door Closer "PPY" Series DC101

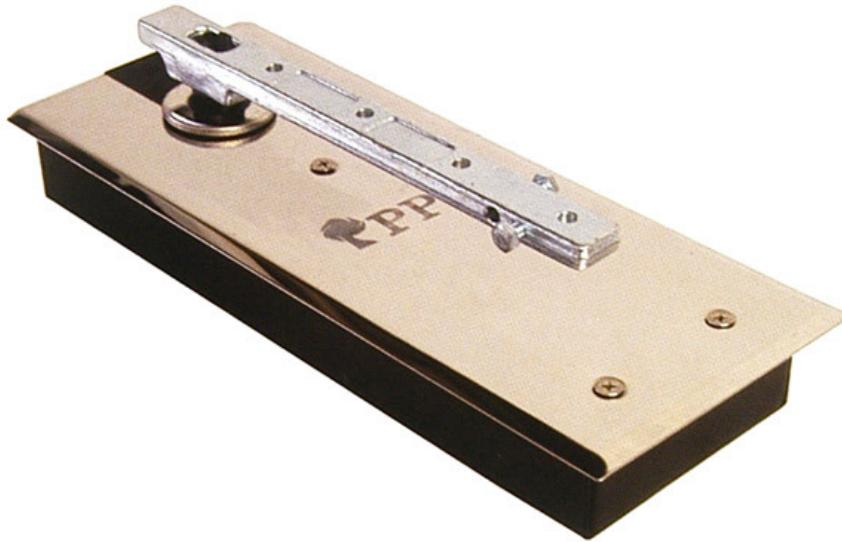


**DC101**

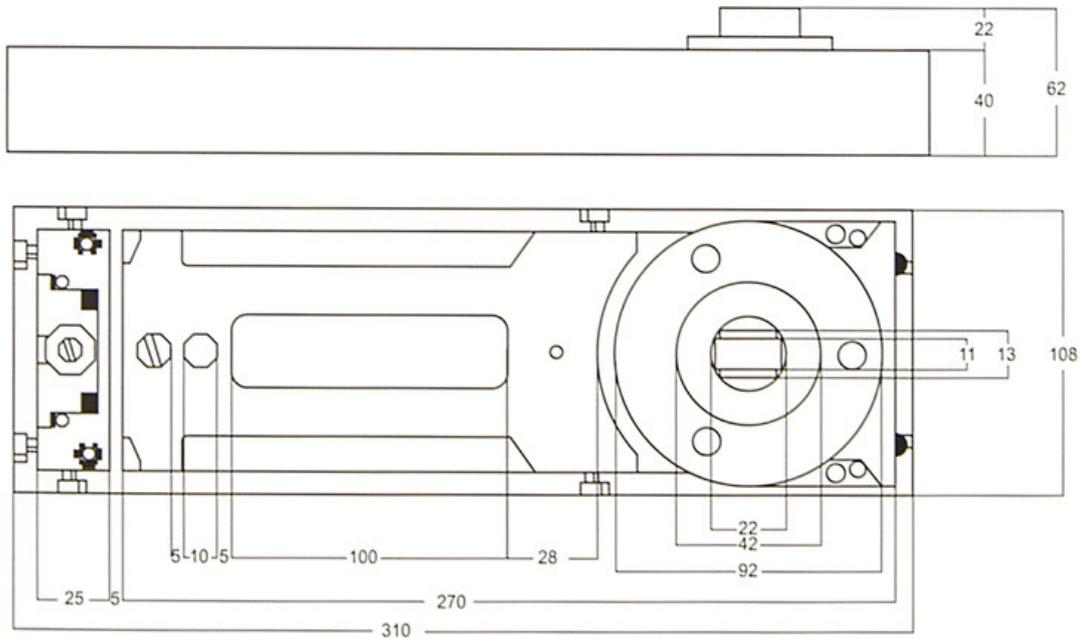


Model	Door size	Spring Tension	Maxinmium opening
no. 2200	Upto 750 mm.	Model 2200	105° backstop 90° hold-open
	(Light)	Model 1220	105° backstop no hold-open
no. 2300	800-950 mm.	Model 2300	105° backstop 90° hold-open
	(Medium)	Model 1230	105° backstop no hold-open
no. 2400	1000-1200 mm.	Model 2400	105° backstop 90° hold-open
	(Heavy)	Model 1240	105° backstop no hold-open

# Floor Hinges Door Closer “PPY” Series DC102



**DC102**

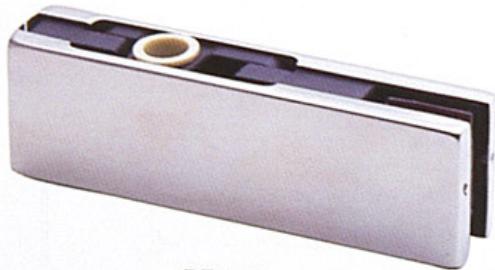
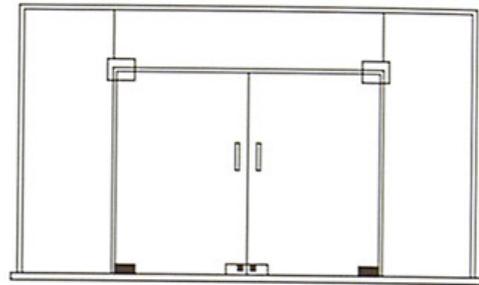
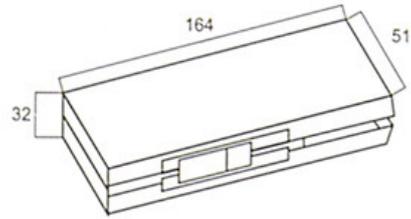


Model	Door size	Spring Tension	Maxinmium opening
no. 2200F	Upto 750 mm.	Model 2200F	105° backstop 90° hold-open
	(Light)	Model 1220F	105° backstop no hold-open
no. 2300F	800–950 mm.	Model 2300F	105° backstop 90° hold-open
	(Medium)	Model 1230F	105° backstop no hold-open
no. 2400F	1000–1200 mm.	Model 2400F	105° backstop 90° hold-open
	(Heavy)	Model 1240F	105° backstop no hold-open

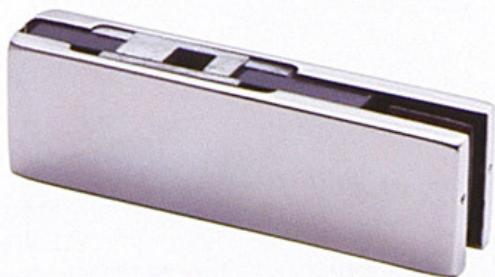
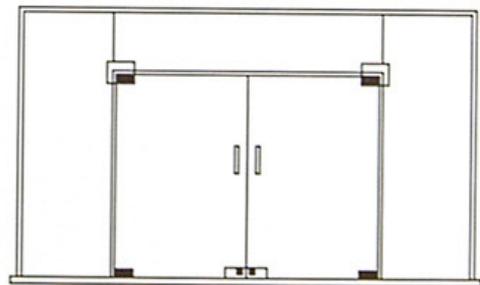
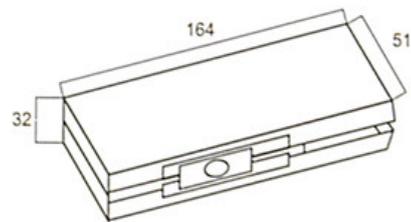
# PATCH FITTING



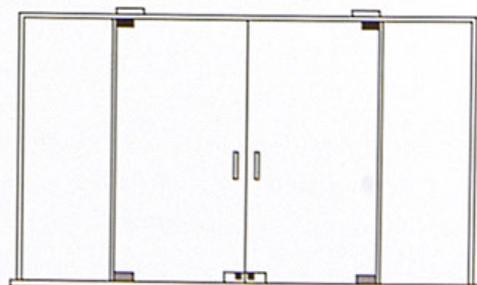
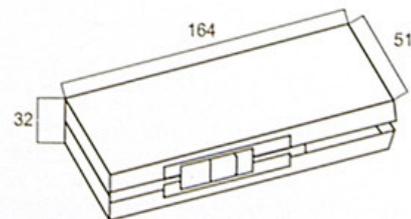
**PF 101**  
Bottom Patch Fitting



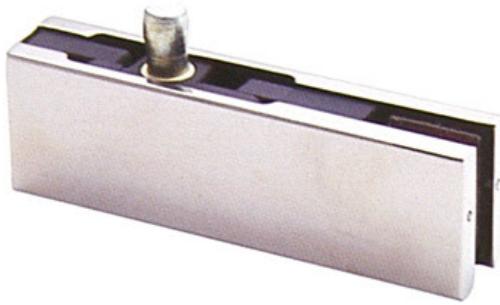
**PF 102**  
Top Patch Fitting



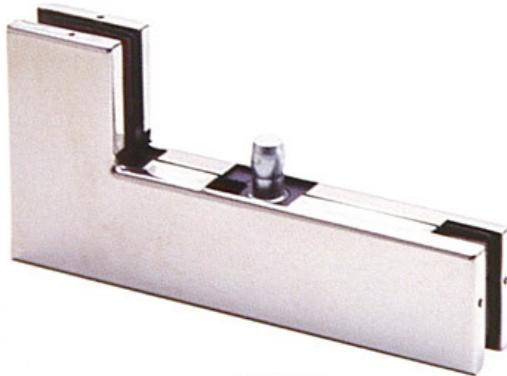
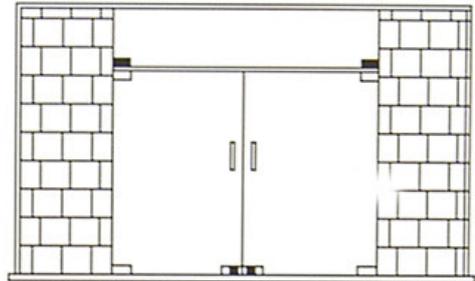
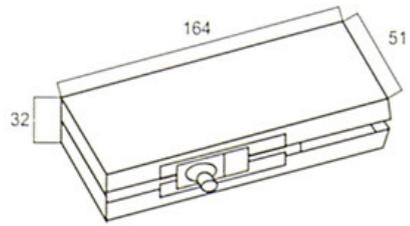
**PF 103**  
Top Patch Fitting for Overhead Door  
Closer



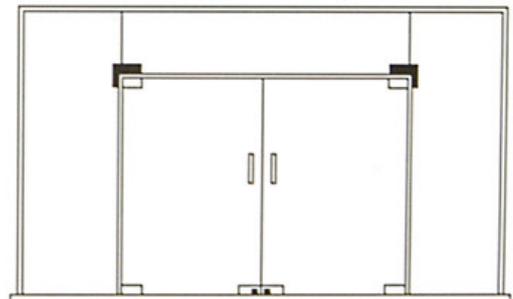
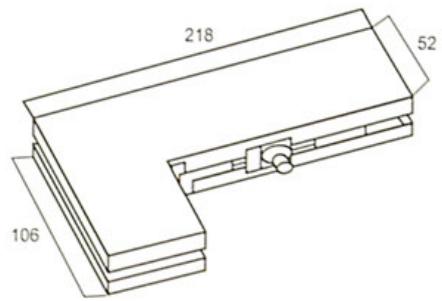
# PATCH FITTING



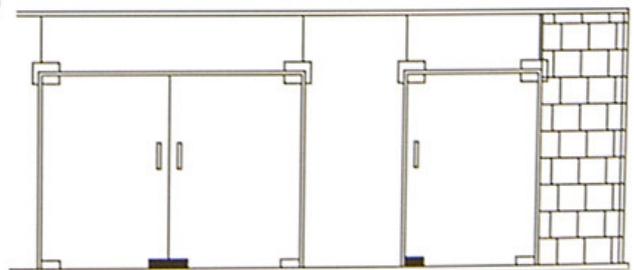
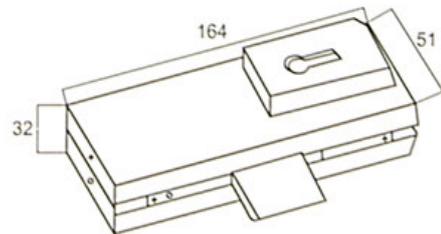
**PF 104**  
Overpanel Pivot Patch Fitting

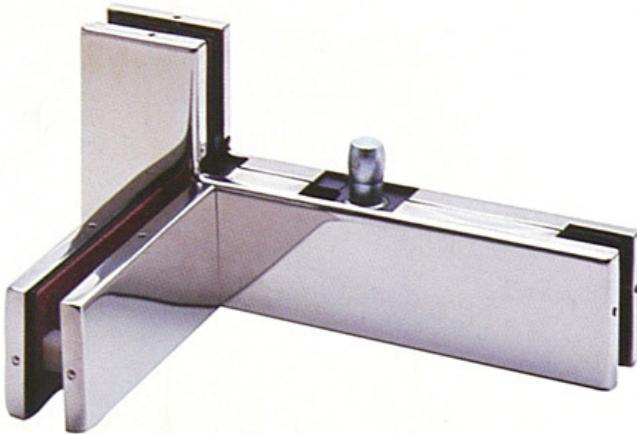


**PF 105**  
Patch Lock with Cylinder and Escutcheon for  
Profile Cylinder with Masterkey or Key Alike  
Available



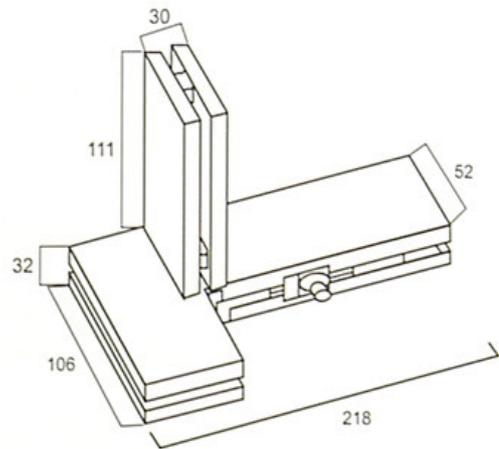
**PF 106**  
Patch Lock with Cylinder and Escutcheon for  
Profile Cylinder with Masterkey or Key Alike  
Available



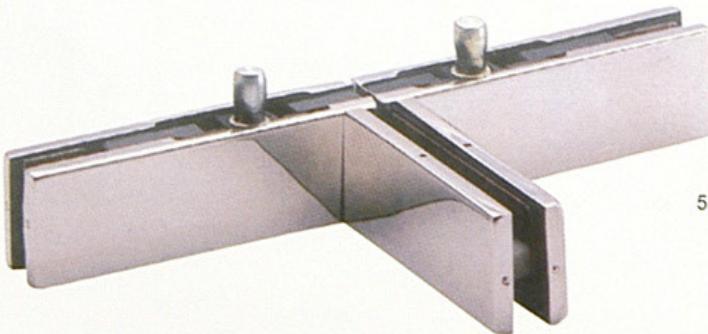
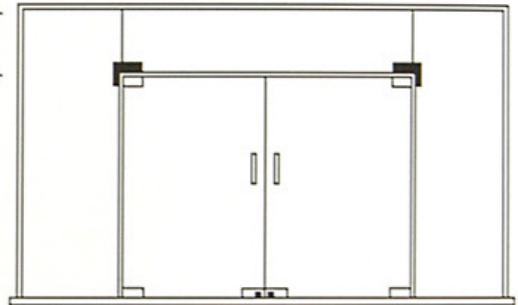


**PF 107**

Overpanel to Sidepanel Pivot Patch Fitting  
including Fin Fitting

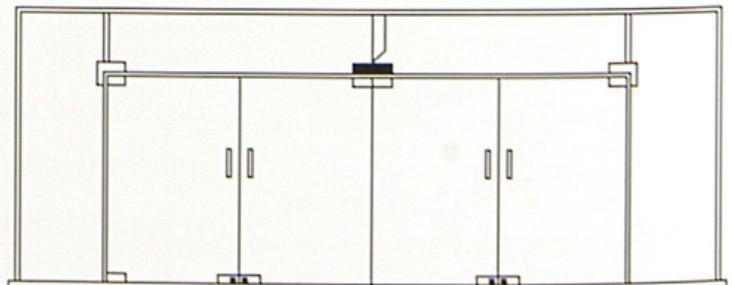
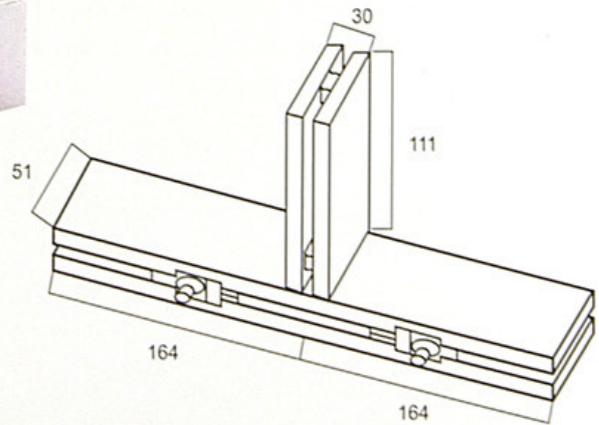


MORE THAN  
50 cm.



**PF 108**

Fin Fitting (back to back door complete with  
pivot and cover caps)



# MOTICE LOCKS

กุญแจบานเลื่อน/กุญแจบานสวิง



HOOKBOLT  
No. AL-002

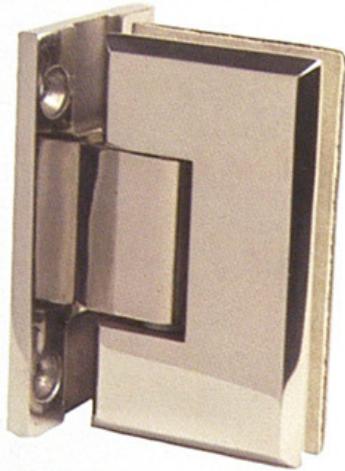


SWINGBOLT  
No. AL-001

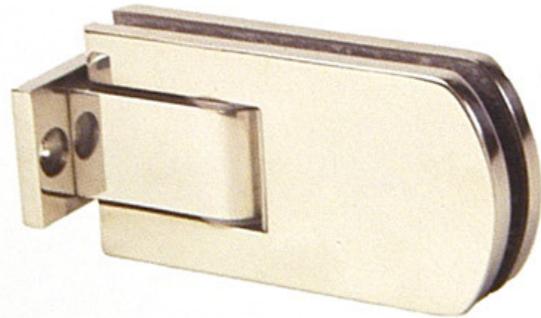
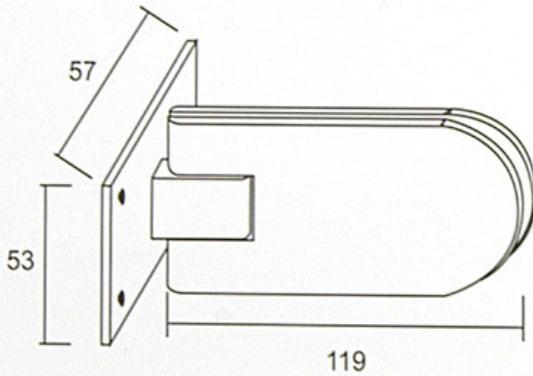
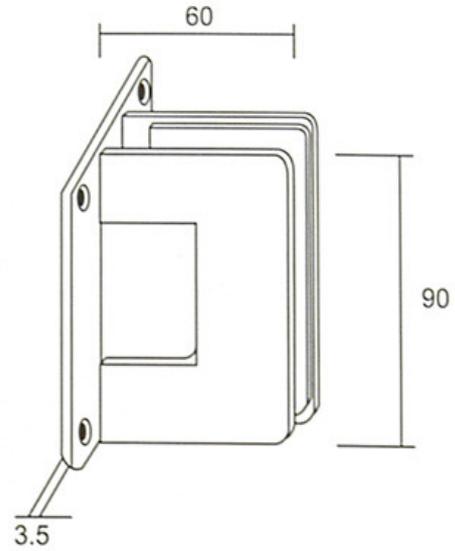
กุญแจล็อกสำหรับประตูอลูมิเนียมหรือประตูเหล็ก  
มีให้เลือกใช้งาน ทั้งบานประตูเลื่อนและแบบประตูบานสวิง  
ในแต่ละรุ่นสามารถเลือกใช้ได้ทั้ง 1 ทางหรือ 2 ทาง ตาม  
ความเหมาะสมแก่การใช้งาน

# SHOWER HINGE

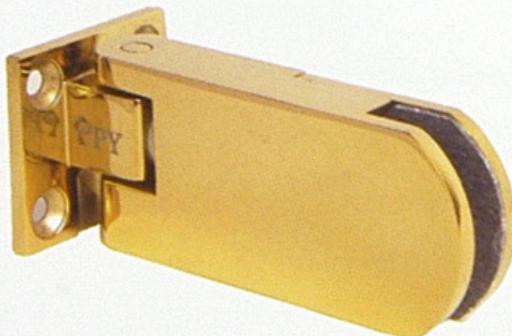
## Shower Hinge Stainless Steel Glass to Wall



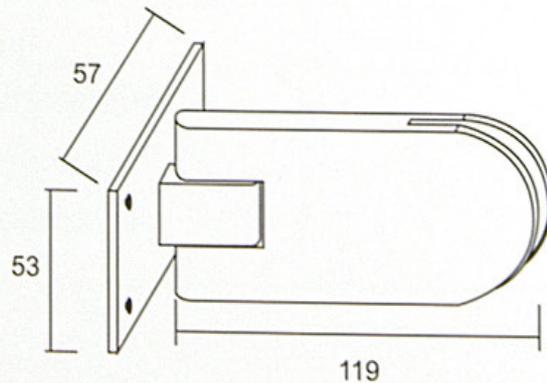
SH 101



SH 103

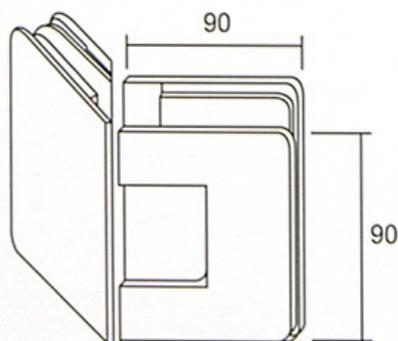
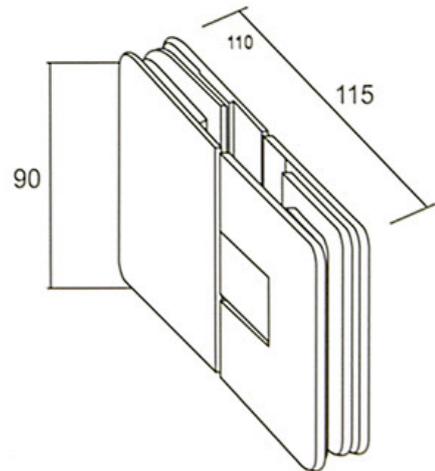
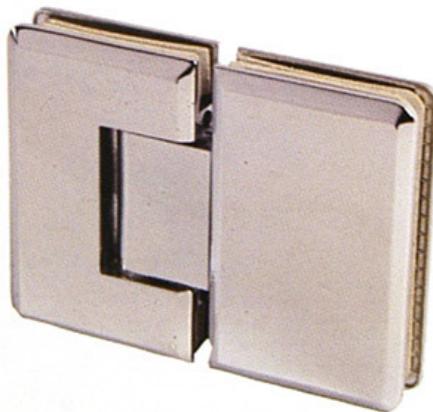
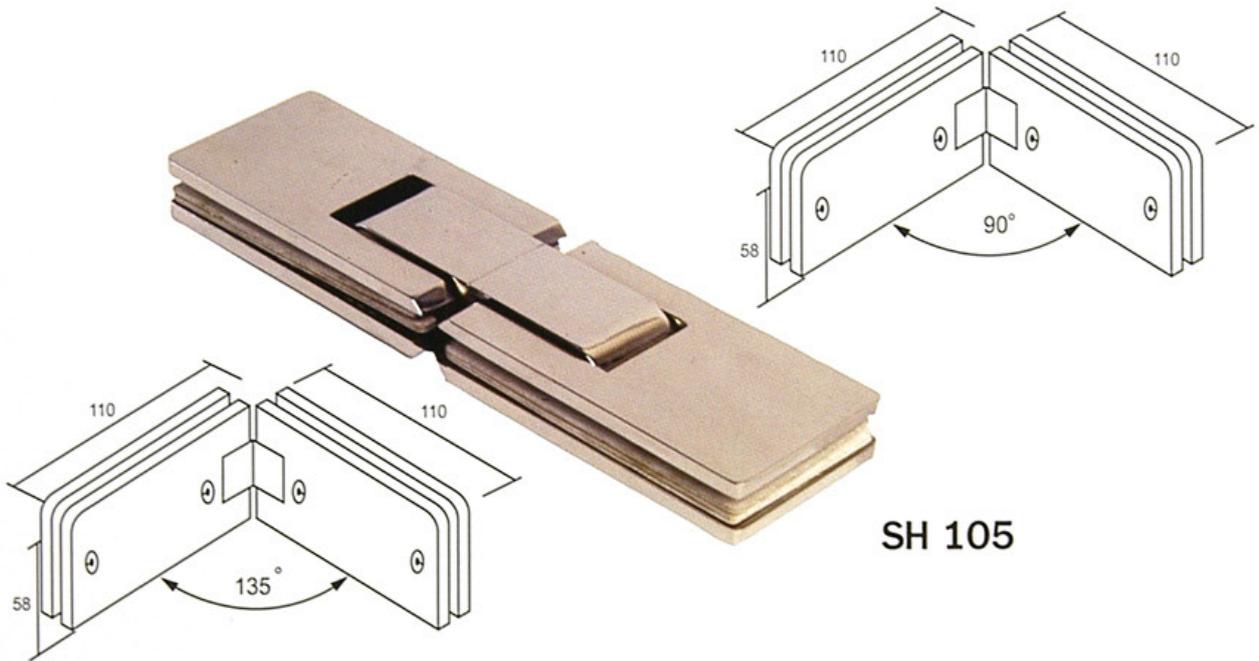


SH 104



# SHOWER HINGE

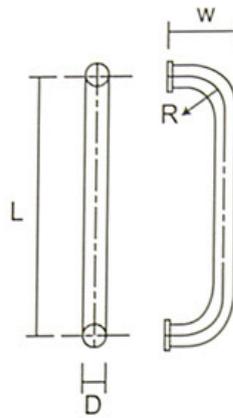
## Shower Hinge Stainless Steel Glass to Glass



# PULL HANDLE



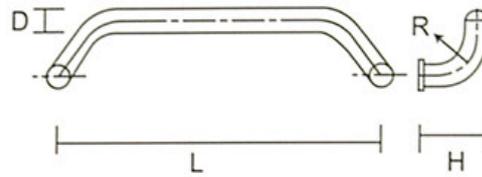
PH 501



CODE	D	L	W
PH 501 A	25	305	90
PH 501 B	25	350	90
PH 501 C	25	450	90
PH 501 D	25	600	90
PH 501 E	32	305	90
PH 501 F	32	350	90



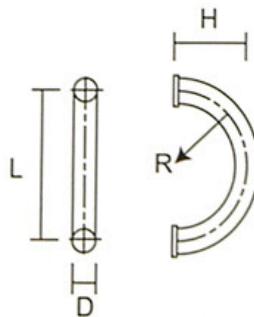
PH 502



CODE	D	L	W	R1	R2
PH 502 A	25	305	90	50	50
PH 502 B	25	350	90	50	50
PH 502 C	32	305	90	55	55
PH 502 D	32	350	90	55	55



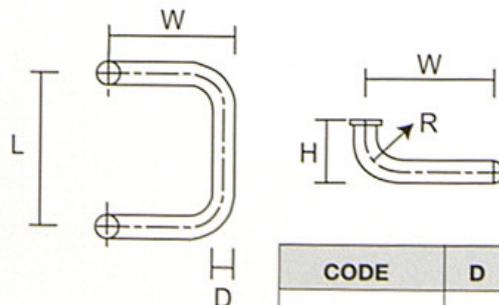
PH 503



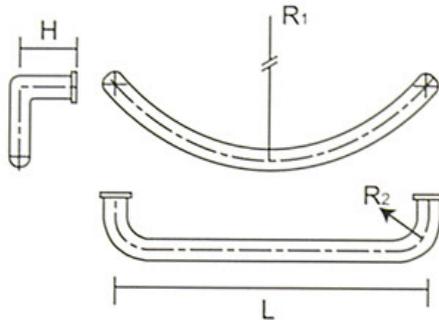
CODE	D	L	H	R2
PH 503 A	25	130	73	65
PH 503 B	25	200	118	100
PH 503 C	32	200	120	100



PH 504

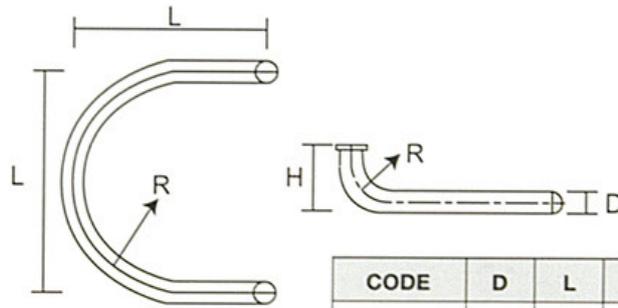


CODE	D	L	W	H
PH 504 A	25	200	170	80



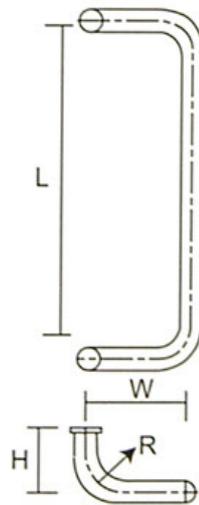
CODE	D	L	H	W	R1	R2
PH 505 A	25	305	70	58	300	40
PH 505 B	25	350	70	78	300	40
PH 505 C	32	305	70	58	300	40
PH 505 D	32	350	70	78	300	40
PH 505 E	32	450	70	95	300	40

PH 505



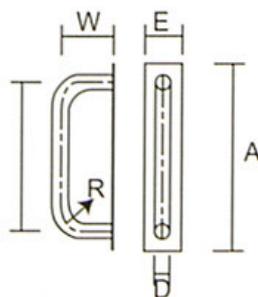
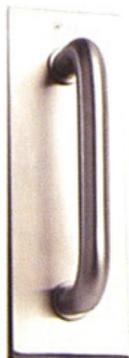
CODE	D	L	H	W	R
PH 506 A	25	200	80	140	140
PH 506 B	32	200	80	140	140
PH 506 C	32	350	90	150	150

PH 506



CODE	D	L	H	W	R
PH 507 A	25	305	80	100	40
PH 507 B	25	350	90	140	50
PH 507 C	32	305	80	100	40
PH 507 D	32	350	90	140	50

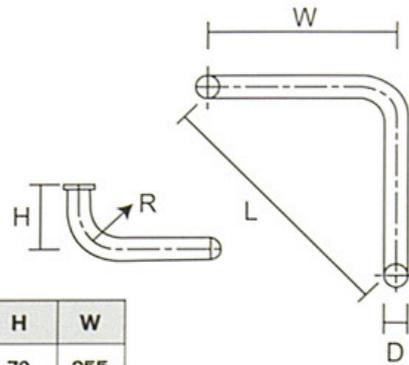
PH 507



CODE	A	B	W	D	E	R	T
PH 508 A	230-355	152-305	64	25-32	50-100	30	2
PH 508 B	230	152	64	25-32	50	30	2
PH 508 C	250	230	64	25-32	50	30	2
PH 508 D	300	205	64	25-32	100	30	3

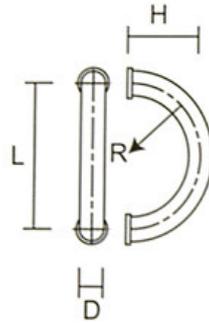
PH 508

# PULL HANDLE



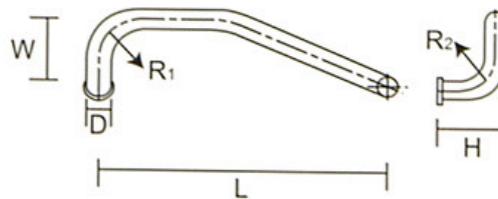
CODE	D	L	H	W
PH 509 A	25	318	70	255
PH 509 B	32	318	70	255

**PH 509**



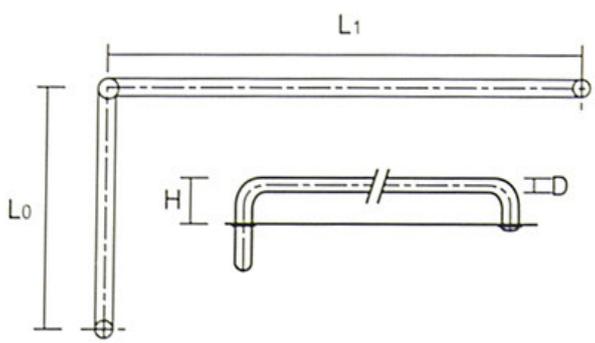
**PH 510**

CODE	D	L	H	W	R
PH 510 A	25	130	80	100	40
PH 510 B	25	200	90	140	50
PH 510 C	32	200	80	100	40



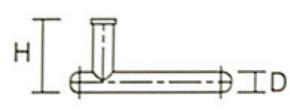
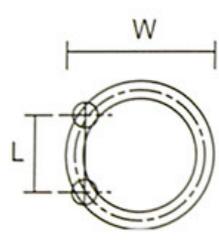
**PH 511**

CODE	D	L
PH 513 A	25	305
PH 513 B	25	350
PH 513 C	32	305
PH 513 D	32	350



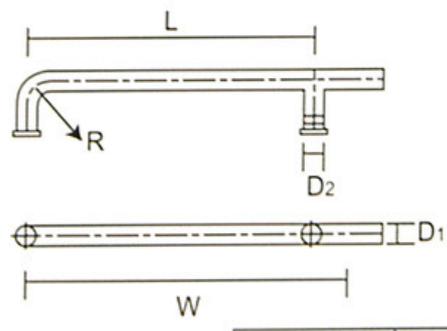
PH 512

CODE	D	L	H	W
PH 512 A	25	305	70	50
PH 512 B	32	305	70	50



PH 515

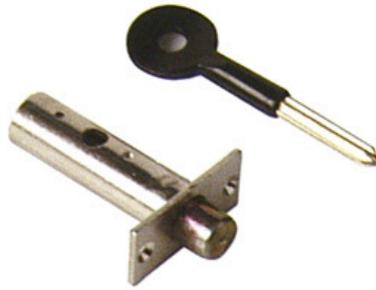
CODE	D	L	H	W
PH 515	25	100	80	200



PH 516

CODE	D	L	W	R
PH 516 A	25	305	357	55
PH 516 B	25	350	375	55
PH 516 C	32	305	357	55
PH 516 D	32	350	375	55

# ACCESSORY



Engineer Key  
No. AC 115M

Barrel Bolt 4", 6", 10"



Flush Pull Handle  
No. CDR -120



Door Viewer 180°



Dust Proof

Flush Bolt for  
Aluminium &  
Steel Door



AC 102

Flush Bolt for  
Wooden Door



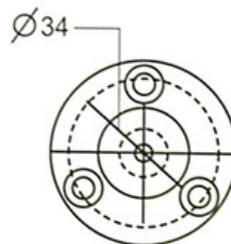
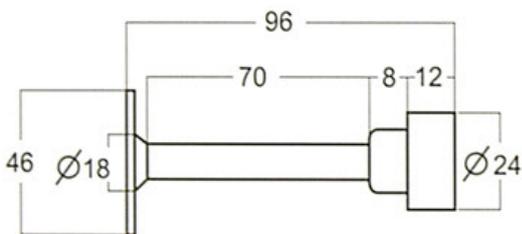
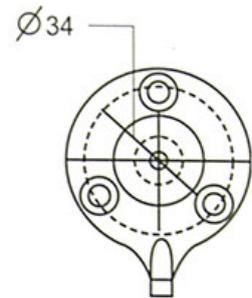
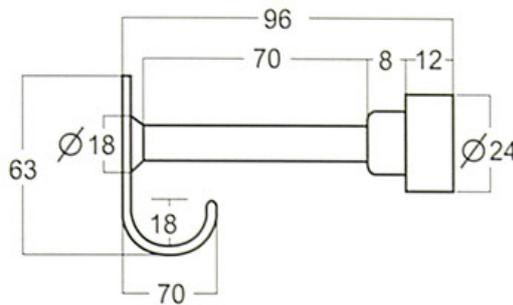
AC 103

# ACCESSORY

## Door Stopper



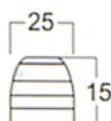
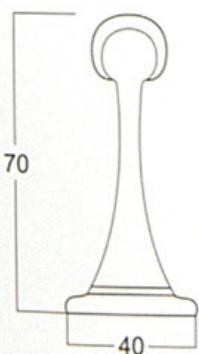
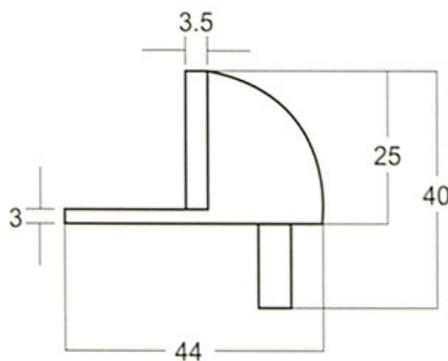
AC 105



AC 106



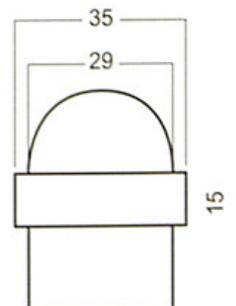
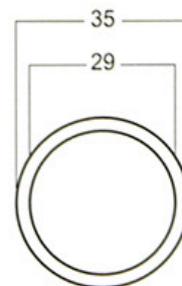
AC 107



AC 108



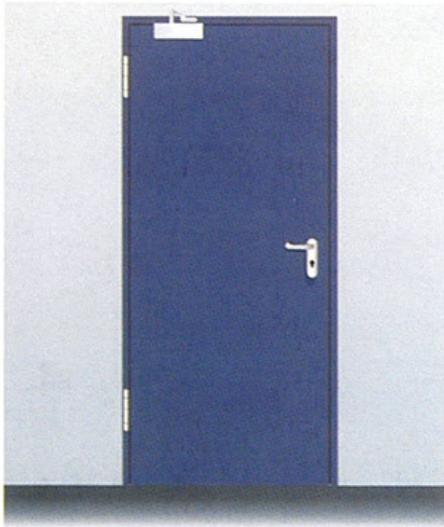
AC 109



# ประตูเหล็กทนไฟ บ้านเดี่ยว

## ชนิดบานทึบและชนิดมีช่องกระจก

Single steel doors – Solid steel doors and steel door with window openings



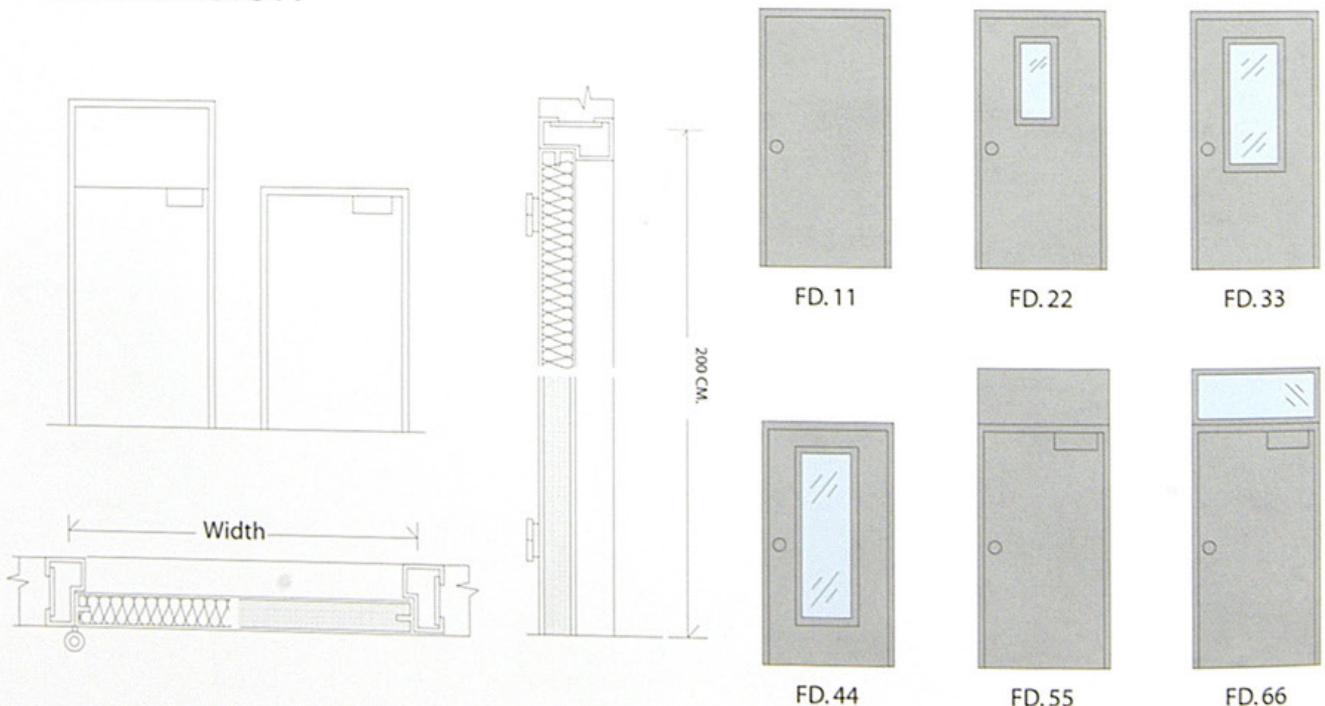
- FD. 11 ประตูเหล็กทนไฟบานทึบ  
Fire resistat dolid steel doors
- FD. 22 ประตูเหล็กชนิดเจาะช่องกระจกขนาด 20/60 ริมบานและ กลางบาน  
Steel Doors with window openings (20/610) at the edges and in the middle
- FD. 33 ประตูชนิดเจาะช่องกระจก 70/70 ขยาย  
Steel doors with window opening (70/70) expansion
- FD. 44 ประตูชนิดเจาะช่องกระจกเต็มบาน  
Steel doors with windows on entire door
- FD. 55 ประตูทนไฟบานทึบ ด้านบนทึบ  
Fire Resistat Solid Steel door with solid upper body
- FD. 66 ประตูชนิดบานทึบ มีช่องแสงด้านบน  
Solid Steel Door with Light opening upper body

ขนาด : กว้าง x สูง x หนา(ซม.)

Size: Length x Helght x Width (Centimeters)

70 / 80 / 90 / 100 x 200 x 3.5 / 4.0 / 4.5

## Dimension



# ประตูเหล็กทนไฟ บานคู่

## ชนิดบานทึบและชนิดมีช่องกระจก

Double Fire Resistant Steel Doors Solid and window opens



- FD. 12 ประตูเหล็กทนไฟ ชนิดเปิดโดยลูกบิด  
Fire Resistant Steel Door with Door Knobs
- FD. 13 ประตูเหล็กทนไฟชนิดใช้ตัวผลัก  
Fire Resistant Steel Door with Pushers
- FD. 14 ประตูเหล็กชนิดเจาะช่องกระจกและช่องเกล็ดระบายอากาศ  
Fire Resistant Steel Door with Window opening and air ventilation slats
- FD. 15 ประตูเหล็กชนิดมีช่องกระจก 20/60 คู่  
Steel Doors with window openings of 20/60 pairs
- FD. 16 ประตูเหล็กชนิดเกล็ดตลอดบาน  
Steel Doors with entire slats
- FD. 17 ประตูเหล็กชนิดเกล็ดเฉพาะบานล่าง  
Steel Doors with slats on lower body
- FD. 18 ประตูเหล็กชนิดมีช่องกระจกครึ่งบาน  
Steel Doors with Window Opening on entire half body

ขนาด : กว้าง x สูง x หนา(ซม.)

Size: Length x Height x Width (Centimeters)

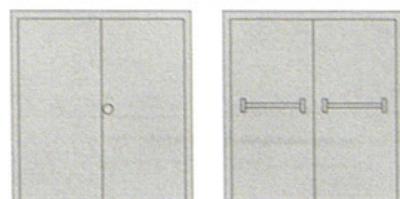
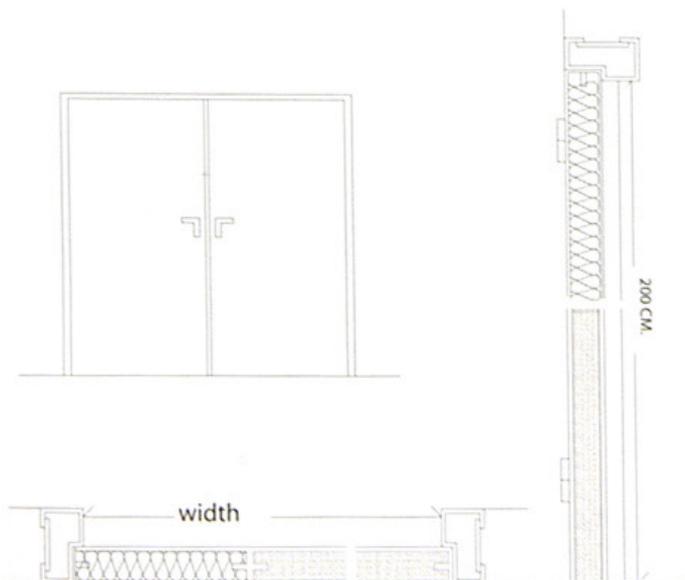
140/150/160/170/180 x 200/210 x 4.0/4.5



ระบบ DoubleDoor เพื่อป้องกันไม่ให้ควันที่เกิดขึ้นในขณะเกิดอัคคีภัยผ่านเข้าได้และเพื่อเป็นการช่วยลดปริมาณอากาศช่วยลดการลุกลามของไฟ

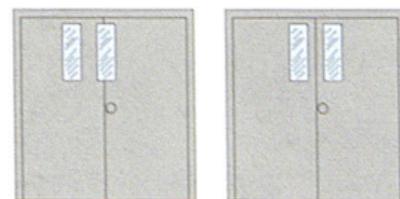
The Double Door system protects smoke of fires from entering as well as reduce the level of air and the spread of fire

## Dimension



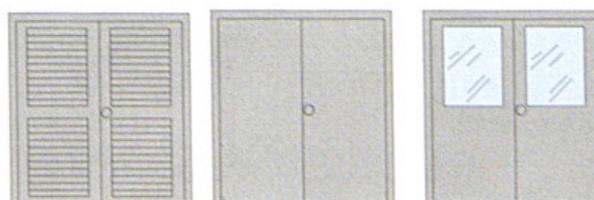
FD.12

FD.13



FD.14

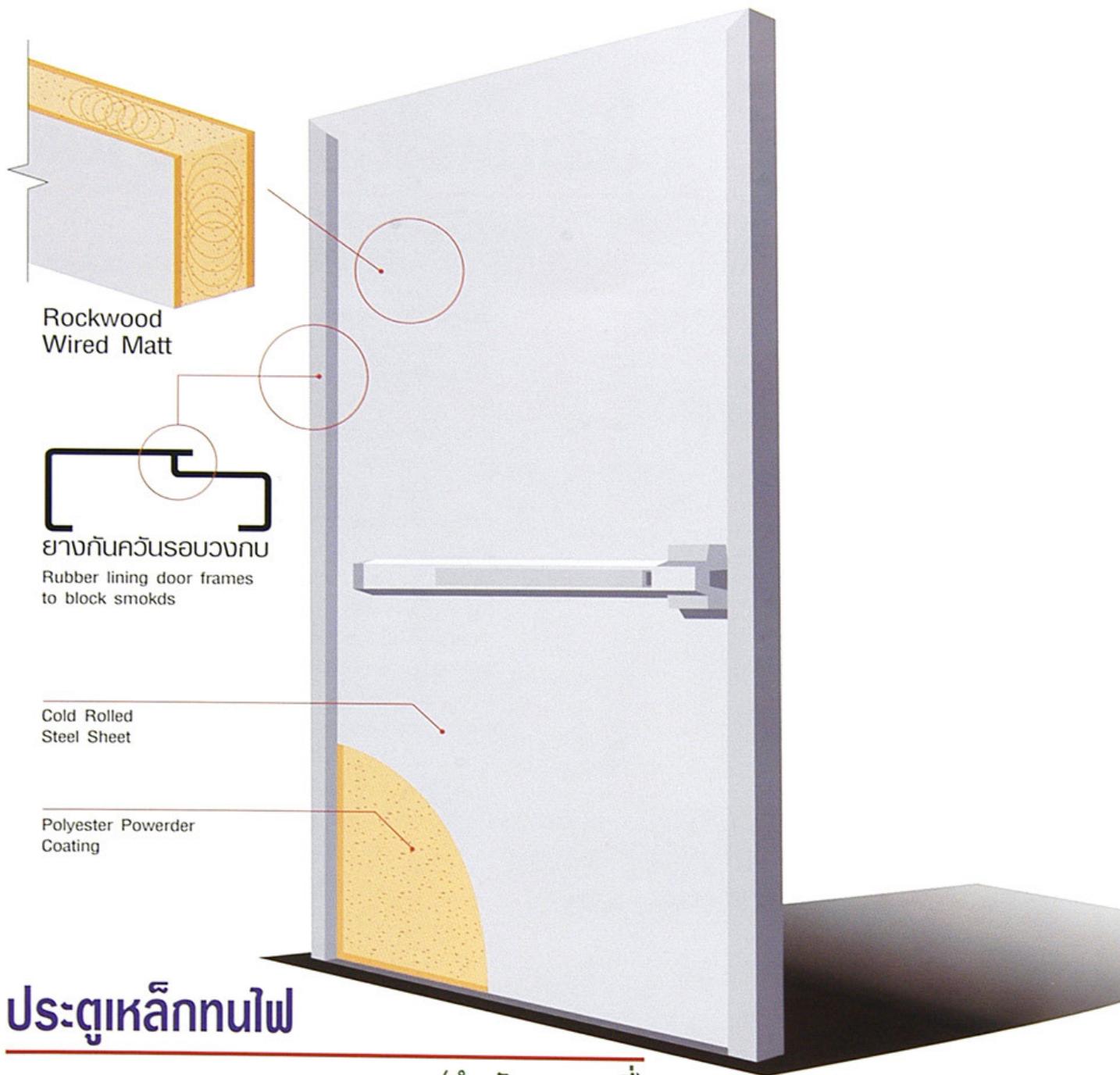
FD.15



FD.16

FD.17

FD.18



## ประตูเหล็กทนไฟ

(สำหรับงานเฉพาะที่)

**ประตูเหล็กทนไฟ** เป็นประตูเหล็กที่ผลิตขึ้นเพื่อใช้เป็นประตูทนไฟสำหรับทางหนีไฟ ตัวบานทำขึ้นจากเหล็กแผ่น Cold Rolled Steel Sheet มีความหนาให้เลือกใช้งานตั้งแต่ 1.2, 1.5 และ 1.6 มม. 2 แผ่นประกบเชื่อมต่อและเสริมโครงสร้างด้วย Stiffened เพื่อเสริมความแข็งแรง ภายในกรุด้วยแนวกันความร้อน Rockwool Wired Matt ที่มีคุณสมบัติในการกันความร้อนได้ 1,000 องศาเซลเซียสได้ถึง 2 ชั่วโมง เมื่อติดตั้งร่วมกับชุดเปิดปิดอัตโนมัติ จะทำให้เกิดความคล่องตัวในการใช้งานเมื่อเกิดอัคคีภัย

**FIRE RESISTING STEEL DOORS** were manufactured particularly to resist fires at fire exits. The door itself is made from Cold Rolled Steel Sheet with a selection of widths to choose from, namely 1.2, 1.5 and 1.6 millimeters respectively. The attached sheet is strengthened with Stiffened and insides and insides are lined with heat-resisting Rockwool Wired Matt, which can stand heat of 1,000 degrees celcius for two hours. When the BPI Steel Doors are installed with the automated open-close system, they work with ease in cases in fires and biases.

**วงกบสำหรับประตู** เป็นวงกบที่มียางกันควันโดยรอบ เพื่อป้องกันควันที่เกิดขึ้นจากอัคคีภัยเข้ามาในช่องทางหนีไฟ

**THE DOORFRAMES OF STEEL DOORS** are lined with rubber to protect smoke of fires from entering the fire exits

# Spider Foam Tape

เทปกาวย Spider Foam Tape เป็นการออกแบบพิเศษ และทำให้การติดตั้งเป็นไปตามความต้องการของการออกแบบทางสถาปัตยกรรมที่ต้องการความสวยงาม เป็นผลิตภัณฑ์ที่มีความยืดหยุ่นให้ตัวได้ จึงลดการสั่นสะเทือนที่เกิดขึ้นได้เป็นอย่างดี

Spider Foam Tape ประกอบด้วยโครงสร้างของเซลเคมีโฟมที่มีลักษณะเซลล์ปิดคลุมทั้งสองด้านด้วยระบบ Aggressive Acrylic ซึ่งมีความเกาะยึดสูง และสามารถเข้ากันได้เป็นอย่างดีกับซิลิโคน เหมาะสำหรับใช้ในการติดตั้งงานผนังอาคาร งานกระจกอลูมิเนียม กรอบประตู หน้าต่าง Metal Sheet และอื่นๆ

- ★ ผลิตภัณฑ์มีความสามารถต้านทานน้ำ ฝุ่นละออง และแสง ได้เป็นอย่างดี
- ★ มีความยืดหยุ่นต่อทุกสภาพอุณหภูมิ จึงทำให้ไม่ย่อยสลายง่าย
- ★ มีความต้านทานสภาพฝนฟ้าอากาศได้เป็นอย่างดี เป็นวัสดุที่มีออกซิเจนเป็นส่วนประกอบ และรังสี Ultraviolet
- ★ เนื่องจากโครงสร้างของวัสดุเป็น Closed Cell จึงเหมาะที่จะใช้ในการติดตั้งเพื่อป้องกันน้ำและอากาศที่อาจแทรกเข้าไปในช่องว่างของผนังได้เป็นอย่างดี
- ★ โครงสร้างของวัสดุสามารถเกาะยึดชิ้นงานได้ดีเป็นแนวตรง จึงช่วยให้ระบบการติดตั้ง สะดวก รวดเร็ว สวยงาม และช่วยลดปริมาณการใช้ Silicone Adhesive



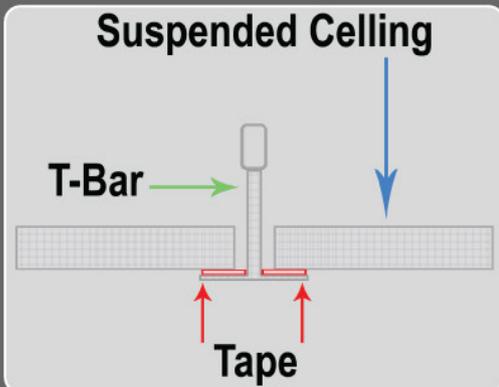
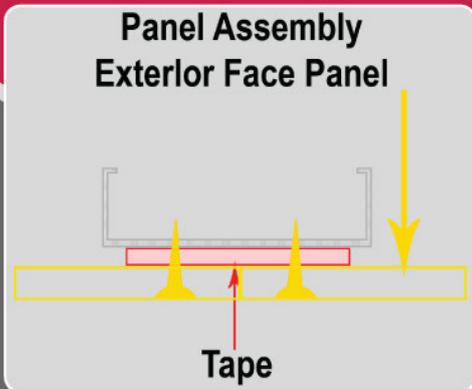
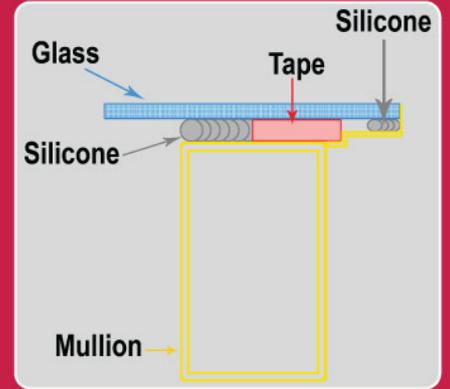
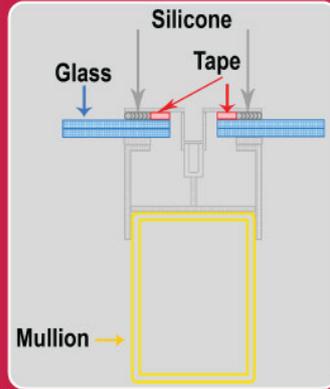
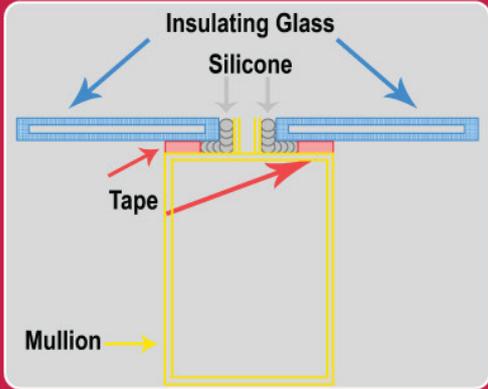
## Applicable Standard's Closed-cell Elastomer Foam

Average Physical Properties	Test Method	
★ Cell Structure	Closed cell	-
★ Apparent Density (gm/cm <sup>3</sup> )	0.047	JIS K6767
★ Tensile Strength (N/cm <sup>2</sup> )	34.7	JIS K6767
★ Elongation (%)	232	JIS K6767
★ Tear Strength (N/cm <sup>2</sup> )	19.7	JIS K6767
★ Compression Strength (%) (N/cm <sup>2</sup> )	0.04	JIS K6767
★ Compress set (%)	12.1	JIS K6767
★ Heating Shrinkage (%)	0.92	JIS K6767
★ Water Absorption (gm/cm <sup>3</sup> )	0.001	JIS K6767
★ Water Vapour Transmission 90% Relative Humidity at 38°C (g/h m <sup>2</sup> )	1.004	ASTM E96-80
★ Permeance (g/Pa.s.m <sup>2</sup> )	4.822x10 <sup>-5</sup>	ASTM E96-80
★ Hardness (Shore C)	55-60 Shore C	-
★ Thermal Conductivity (k cal/mhr°C)		
★ at 75°F mean temperature	0.0380	ASTM C518
★ at 89.9°F mean temperature	0.0306	ASTM C518
★ Combustibility	flame retardant, if required	-

# วิธีการใช้งาน SPIDER FOAM TAPE

Spider Foam Tape เป็นวัสดุที่ใช้ยึดเกาะระหว่างผนังกระจกกับอลูมิเนียม ยึดเกาะโลหะต่างๆ แม้กระทั่งผนังปูนหรือแผ่นพลาสติกเอาไว้ชั่วคราวก่อนที่จะทำการฉีดซิลิโคน และเพื่อให้ระบบการติดตั้งผนังต่างๆ มีความแข็งแรง คงทน และสวยงาม

1. การติดตั้งผนังให้มีความมั่นคงแข็งแรง และยึดเกาะกับตัวชิ้นงานได้ดีนั้น จำเป็นต้องคำนึงถึงการใช้ Silicone และ Tape จะต้องมีความหนาและปริมาณที่สมดุลกัน
2. ควรทำความสะอาดพื้นผิวของชิ้นงานให้สะอาดและแห้งสนิทก่อนที่จะทำการติดตั้งชิ้นงานร่วมกับ Tape และพื้นผิวของชิ้นงานควรมีลักษณะเรียบแบน



ลำดับ	ขนาด	จำนวน เส้น/กล่อง	ราคา	ราคา
	หน้ากว้างยาว		บาท/เส้น	บาท/กล่อง
1	1.5 มม. x 6 มม. x 1 ม.	800	8	6400
2	1.5 มม. x 8 มม. x 1 ม.	600	11	6600
3	1.5 มม. x 10 มม. x 1 ม.	480	15	7200
4	1.5 มม. x 12 มม. x 1 ม.	400	19	7600
5	2 มม. x 6 มม. x 1 ม.	600	9	5400
6	2 มม. x 8 มม. x 1 ม.	450	13	5850
7	2 มม. x 10 มม. x 1 ม.	360	17	6120
8	3 มม. x 6 มม. x 2 ม.	400	20	8000
9	3 มม. x 8 มม. x 2 ม.	300	26	7800
10	3 มม. x 9 มม. x 2 ม.	260	30	7800
11	3 มม. x 10 มม. x 2 ม.	240	32	7680
12	3 มม. x 15 มม. x 2 ม.	160	48	7680
13	3 มม. x 25 มม. x 2 ม.	80	80	6400
14	4 มม. x 6 มม. x 2 ม.	300	22	6600
15	4 มม. x 8 มม. x 2 ม.	225	28	6300
16	4 มม. x 9 มม. x 2 ม.	195	32	6240
17	4 มม. x 10 มม. x 2 ม.	180	36	6480
18	4 มม. x 12 มม. x 2 ม.	150	44	6600
19	4 มม. x 15 มม. x 2 ม.	120	54	6480
20	6 มม. x 6 มม. x 2 ม.	200	24	4800
21	6 มม. x 8 มม. x 2 ม.	150	32	4800
22	6 มม. x 9 มม. x 2 ม.	130	36	4680
23	6 มม. x 10 มม. x 2 ม.	120	40	4800
24	6 มม. x 12 มม. x 2 ม.	100	48	4800
25	6 มม. x 14 มม. x 2 ม.	80	56	4480
26	6 มม. x 15 มม. x 2 ม.	80	60	4800
27	8 มม. x 6 มม. x 2 ม.	150	32	4800
28	8 มม. x 8 มม. x 2 ม.	105	44	4620
29	8 มม. x 10 มม. x 2 ม.	84	56	4704
30	8 มม. x 12 มม. x 2 ม.	70	67	4690
31	8 มม. x 15 มม. x 2 ม.	56	84	4704
32	10 มม. x 10 มม. x 2 ม.	72	64	4608
33	10 มม. x 15 มม. x 2 ม.	48	96	4608
34	12 มม. x 12 มม. x 2 ม.	50	90	4500
35	12 มม. x 15 มม. x 2 ม.	40	114	4560
36	12 มม. x 20 มม. x 2 ม.	30	150	4500
37	14 มม. x 10 มม. x 2 ม.	48	88	4224
38	15 มม. x 15 มม. x 2 ม.	32	144	4608
39	17 มม. x 10 มม. x 2 ม.	36	114	4104

สนใจติดต่อโดยตรง

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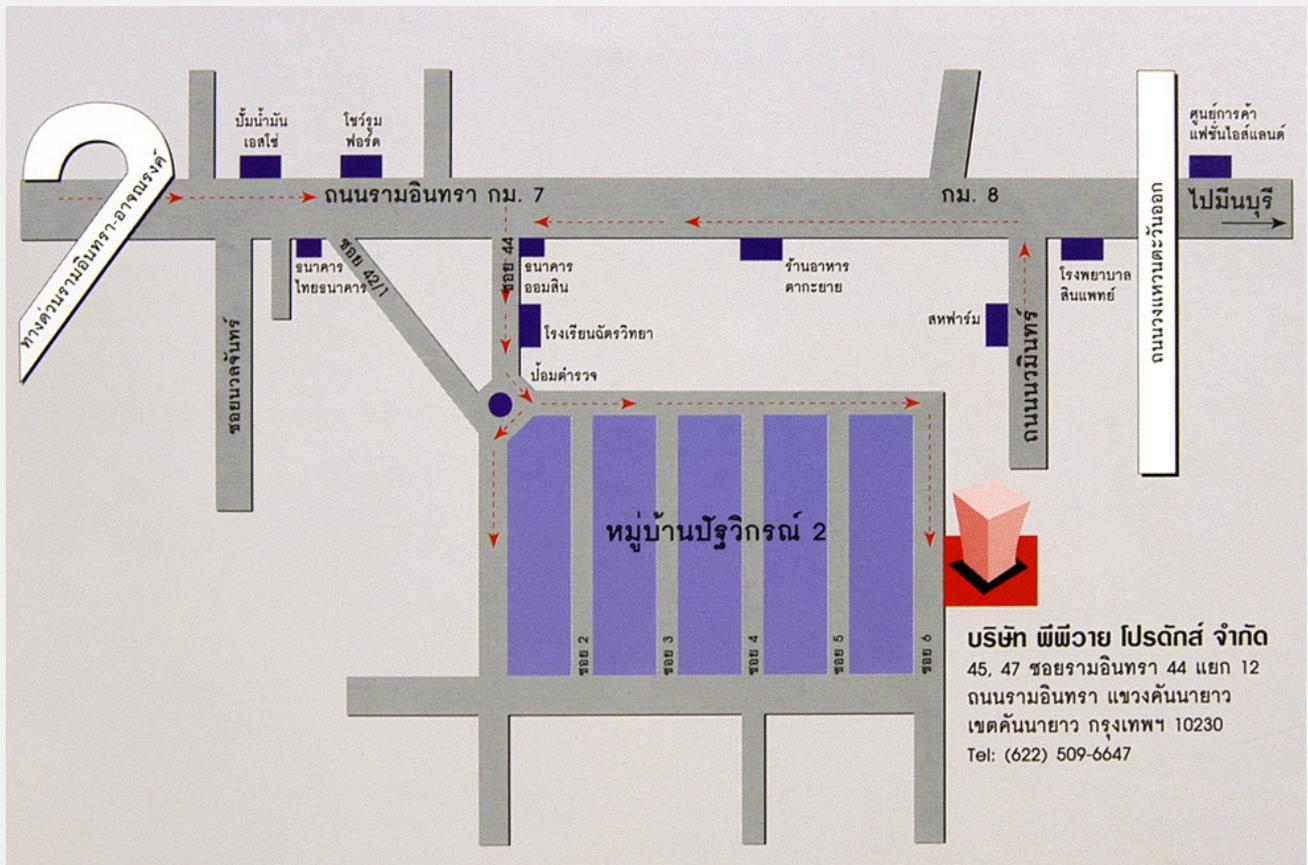
บริษัท พีพีวาย โปรดักส์ จำกัด

45,47 ซ.รามอินทรา 44 แยก 12

ถ.รามอินทรา แขวงคันนายาว

เขตคันนายาว กทม. 10230

# ติดต่อเรา



## จำหน่ายและปรึกษา

- อุปกรณ์ประตู-หน้าต่าง
- ใช้คอปประตูบานสวิง-บานเลื่อน
- อุปกรณ์ประตูกั้นไฟ
- บานพับอัตโนมัติ
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