



FM 60396

Quality-assured manufacture

To ISO 9001

Certified and supervised

By BSI

DORINT
DOOR INTERNATIONAL

Leado Door Controls, Ltd.

EN STANDARD DOOR CLOSERS

SURFACE DOOR CLOSERS

ECONOMICAL CLOSERS

SLIDING ARM SURFACE CLOSERS

CONCEALED CLOSERS

TRANSOM CLOSERS

FLOOR HINGES

GLASS FITTINGS

EQUIPMENT & TEST REPORTS



NUMBER: 1121



1234567890
1234567890

EN STANDARD DOOR CLOSERS



with cover



915 EN CLOSER

Tested to EN 1154 **48 5 1 1 3**

by Warrington APT Laboratories, UK
Power Adjustable #2 to #5 by Spring
EN Fire Tested

48 5 1 1 3

- **4** ▶ **Category of Use**
All DORINT 915 closers are identified as grade 4 in this section which means the closer will close the door from approximately 180°. Grade 3 closers will close the door from 105°.
- **8** ▶ **Test Cycles**
Included in 500,000 cycle tests 8 is the only grade that can be obtained.
- **5 2** ▶ **Door Size**
Each number in this category identifies the closer size and its suitability for use on these doors.
Adjustable strength closers are defined by showing both the minimum and maximum strength.

Closer size	Door width	Door weight
1	750mm	20kg
2	850mm	40kg
3	950mm	60kg
4	1100mm	80kg
5	1250mm	100kg
6	1400mm	120kg
- **1** ▶ **Fire Behaviour**
Based on the results of the fire tests to BS 476: Part 22: 1987, 1 is the grade given to closers that are suitable for use on fire or smoke doors.
- **1** ▶ **Safety In Use**
A compulsory part of the standard which ensures the operation of the closer presents no hazard to the persons using the door.
Only grade 1 if identified.
- **3** ▶ **Corrosion Resistance**
Five grades are identified within this category from 0 which has no identified resistance to 4 which is very high resistance.
Grades are obtained after closers have been included in salt spray tests and had their performances re-confirmed after the test.

DATA AND FEATURES

915

Variable closing force	Spring strength(EN)	2 To 5
Standard doors	850mm 45kg	915
	950mm 60kg	915
	1100mm 80kg	915
	1250mm 110kg	915
Body dimensions(mm)	Length	236
	Height	54
	Projection	38
Arm	Standard	✓
	Parallel	○
	Track (standard)	○
	Track (hold-open)	○
Rack and pinion		✓
Power shoe arm bracket		✓
Angle of opening		180°
Power adjustable by spring		✓
Power adjustable by position		x
Sweep speed adjustable		✓
Latching speed adjustable		✓
Hold-open	Built in	x
	Hold open arm	○
Back-check	Self-regulating	x
	Adjustable at valve	○
Delayed action adjustable		○
Non-handed		✓
With cover		○
Application	Regular (1)	✓
	Parallel arm (66)	○
	Transom (61)	✓
Guarantee/years		20 years

✓ =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.

POWER SHOE ARM BRACKET:

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

BACK CHECK:

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

DELAYED ACTION:

Provides prolonged closing time to assist passage of trolleys, wheel chairs, elderly people etc.

STANDARD FINISHES:

Silver, dark brown or gold, other finishes upon request.

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EN STANDARD DOOR CLOSERS



with cover

913 EN CLOSER

Tested to EN 1154 **482113**

Power Adjustable / by Position

by Warrington APT Laboratories, UK

Power Adjustable #2 to #4 by Position

EN Fire Tested



DATA AND FEATURES
913

Variable closing force	Spring strength(EN)	2 To 4
Standard doors	850mm 45kg	913
	950mm 60kg	913
	1100mm 80kg	913
	1250mm 110kg	x
Body dimensions(mm)	Length	206
	Height	54
	Projection	38
Arm	Standard	✓
	Parallel	○
	Track (standard)	○
	Track (hold-open)	○
Rack and pinion		✓
Power shoe arm bracket		✓
Angle of opening		180°
Power adjustable by spring		x
Power adjustable by position		✓
Sweep speed adjustable		✓
Latching speed adjustable		✓
Hold-open	Built in	x
	Hold open arm	○
Back-check	Self-regulating	x
	Adjustable at valve	○
Delayed action adjustable		○
Non-handed		✓
With cover		○
Application	Regular (1)	✓
	Parallel arm (66)	○
	Transom (61)	✓
Guarantee/years		10 years

✓ =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.

POWER SHOE ARM BRACKET:

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

BACK CHECK:

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

DELAYED ACTION:

Provides prolonged closing time to assist passage of trolleys, wheel chairs, elderly people etc.

STANDARD FINISHES:

Silver, dark brown or gold, other finishes upon request.

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EN STANDARD DOOR CLOSERS



with cover

730^o EN CLOSER

Tested to EN 1154 **483113**

by Warrington APT Laboratories, UK

Power Adjustable #2 to #4 by Position

EN Fire Tested



DATA AND FEATURES

DATA AND FEATURES			733	735
Variable closing force	Spring strength(EN)		2 To 4	4 To 6
Standard doors	850mm	45kg	733	x
	950mm	60kg	733	x
	1100mm	80kg	733	x
	1250mm	110kg	x	735
	1400mm	150kg	x	735
Body dimensions(mm)	Length		227	246
	Height		60	62
	Projection		39	45
Arm	Standard		✓	✓
	Parallel		○	○
	Track (standard)		○	○
	Track (hold-open)		○	○
Rack and pinion			✓	✓
Power shoe arm bracket			✓	✓
Angle of opening			180°	180°
Power adjustable by spring			x	x
Power adjustable by position			✓	✓
Sweep speed adjustable			✓	✓
Latching speed adjustable			✓	✓
Hold-open	Built in		x	x
	Hold open arm		○	○
Back-check	Self-regulating		○	○
	Adjustable at valve		○	○
Delayed action adjustable			○	○
Non-handed			✓	✓
With cover			○	○
Application	Regular (1)		✓	✓
	Parallel arm (66)		○	○
	Transom (61)		✓	✓
Guarantee/years			10 years	10 years

✓ =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.

POWER SHOE ARM BRACKET:

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

BACK CHECK:

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

DELAYED ACTION:

Provides prolonged closing time to assist passage of trolleys, wheel chairs, elderly people etc.

STANDARD FINISHES:

Silver, dark brown or gold, other finishes upon request.



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SURFACE DOOR CLOSERS

Easy Installation by Inserting the Two Fixing Pins

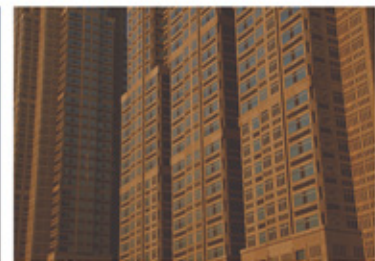
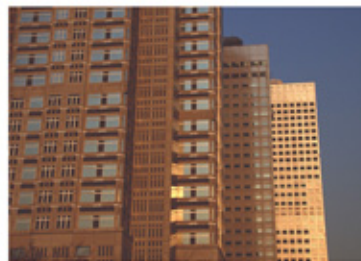


724 DOOR
CLOSER

Adjustable Power #2 to #4

EN Fire Tested

by Warrington APT Laboratories, UK



DATA AND FEATURES
724

Variable closing force	Spring strength(EN)	2 To 4
Standard doors	750mm 36kg	x
	850mm 45kg	724
	950mm 60kg	724
	1100mm 80kg	724
Body dimensions(mm)	Length	206
	Width	48
	Thick	45
Arm	Standard	✓
	Parallel	○
	Track (standard)	○
	Track (hold-open)	○
Rack and pinion		✓
Power shoe arm bracket		✓
Angle of opening		180°
Power adjustable by spring		x
Power adjustable by position		✓
Sweep speed adjustable		✓
Latching speed adjustable		✓
Hold-open	Built in	x
	Hold open arm	○
Back-check	Self-regulating	○
	Adjustable at valve	x
Delayed action adjustable		x
Non-handed		✓
Application	Regular (1)	✓
	Parallel arm (66)	○
	Transom (61)	✓
Guarantee/years		5 years

✓ =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.

POWER SHOE ARM BRACKET:

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

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.



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ECONOMICAL DOOR CLOSERS



770 DOOR CLOSER

EN Fire Tested
by Warrington APT Laboratories, UK



DATA AND FEATURES
770

Variable closing force	Spring strength(EN)	2 TO 4
Standard doors	850mm 45kg	770
	950mm 60kg	770
	1100mm 80kg	770
	1250mm 110kg	x
Body dimensions(mm)	Length	180
	Height	44
	Projection	65
Arm	Standard	✓
	Parallel	○
	Track (standard)	○
	Track (hold-open)	○
Rack and pinion		✓
Power shoe arm bracket		✓
Angle of opening		180°
Power adjustable by spring		x
Power adjustable by position		x
Sweep speed adjustable		✓
Latching speed adjustable		✓
Hold-open	Built in	○
	Hold open arm	○
Back-check	Self-regulating	x
	Adjustable at valve	○
Delayed action adjustable		x
Non-handed		✓
With cover		○
Application	Regular (1)	✓
	Parallel arm (66)	○
	Transom (61)	✓
Guarantee/years		5 years

✓ =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.

POWER SHOE ARM BRACKET:

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

BACK CHECK:

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

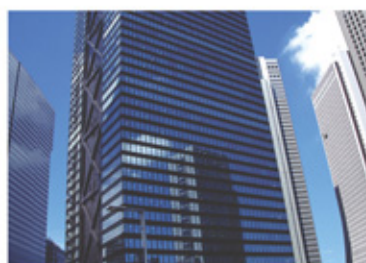
STANDARD FINISHES:

Silver, dark brown or gold, other finishes upon request.



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ECONOMICAL DOOR CLOSERS



680 DOOR CLOSER

Power Adjustable #2 to #4 by Position

EN Fire Tested

by Warrington APT Laboratories, UK

DATA AND FEATURES
680

Variable closing force	Spring strength(EN)	2 To 4
Standard doors	850mm 45kg	680
	950mm 60kg	680
	1100mm 80kg	680
	1250mm 110kg	x
Body dimensions(mm)	Length	220
	Height	50
	Projection	42
Arm	Standard	○
	Parallel	○
	Track (standard)	○
	Track (hold-open)	○
Rack and pinion		✓
Power shoe arm bracket		180°
Angle of opening		x
Power adjustable by spring		x
Power adjustable by position		✓
Sweep speed adjustable		✓
Latching speed adjustable		✓
Hold-open	Built in	○
	Hold open arm	○
Back-check	Self-regulating	○
	Adjustable at valve	○
Delayed action adjustable		x
Non-handed		✓
With cover		x
Application	Regular (1)	✓
	Parallel arm (66)	○
	Transom (61)	✓
Guarantee/years		5 years

✓=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.

POWER SHOE ARM BRACKET:

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

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.



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ECONOMICAL DOOR CLOSERS



with cover



1200 DOOR CLOSER

Power #2, #3, #4



DATA AND FEATURES
1200

Variable closing force	Spring strength(EN)	2, 3, 4
Standard doors	850mm 45kg	1202
	950mm 60kg	1203
	1100mm 80kg	1204
Body dimensions(mm)	Length	210
	Height	48
	Projection	45
Arm	Standard	✓
	Parallel	○
	Track (standard)	○
	Track (hold-open)	○
Rack and pinion		✓
Power shoe arm bracket		✓
Angle of opening		110°
Power adjustable by spring		x
Power adjustable by position		✓
Sweep speed adjustable		✓
Latching speed adjustable		✓
Hold-open	Built in	○
	Hold open arm	x
Back-check	Self-regulating	○
	Adjustable at valve	x
Delayed action adjustable		x
Non-handed		✓
With cover		○
Application	Regular (1)	✓
	Parallel arm (66)	○
	Transom (61)	✓
Guarantee/years		5 years

✓ =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.

POWER SHOE ARM BRACKET:

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

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.



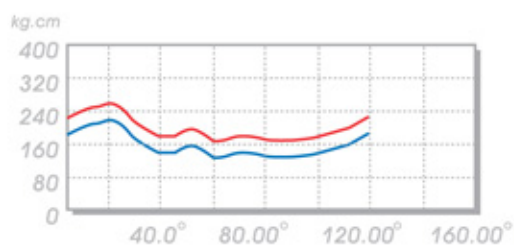
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SLIDING ARM SURFACE CLOSERS



DOUBLE ACTION SURFACE MOUNTING DOOR CLOSER

Conforming to EN 1154



Sliding Arm with Hold Open Function
High Efficiency of Opening and Closing

DATA AND FEATURES

			178	278
Variable closing force	Spring strength(EN)		1 to 3	2 to 4
Standard doors	750mm	36kg	178	278
	850mm	45kg	178	278
	950mm	60kg	178	278
	1100mm	80kg	x	x
Body dimensions(mm)	Length		238	220
	Width		58	64
	Thick		36	40
Arm	Standard		x	x
	Parallel		x	x
	Track (standard)		✓	✓
	Track (hold-open)		✓	✓
Double Action			✓	✓
Power shoe arm bracket			x	x
Angle of opening			120°	120°
Power adjustable by spring			✓	✓
Power adjustable by position			x	x
Sweep speed adjustable			✓	✓
Latching speed adjustable			✓	✓
Hold-open	Built in		x	x
	Hold open arm		x	x
Back-check	Self-regulating		x	x
	Adjustable at valve		x	x
Delayed action adjustable			x	x
Non-handed			✓	✓
Application	Regular (1)		x	x
	Parallel arm (66)		x	x
	Transom (61)		x	x
Guarantee/years			5 years	5 years

✓ =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.



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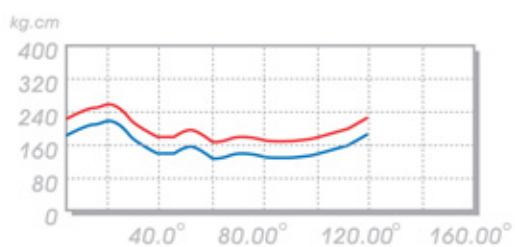
CONCEALED DOOR CLOSERS



DOUBLE ACTION

CONCEALED DOOR CLOSER

Conforming to EN 1154



Sliding Arm with Hold Open Function
High Efficiency of Opening and Closing

DATA AND FEATURES

			168	268
Variable closing force	Spring strength(EN)		1 to 3	2 to 4
Standard doors	750mm	36kg	168	268
	850mm	45kg	168	268
	950mm	60kg	168	268
	1100mm	80kg	x	x
Body dimensions(mm)	Length		238	220
	Width		58	64
	Thick		36	40
Arm	Standard		x	x
	Parallel		x	x
	Track (standard)		✓	✓
	Track (hold-open)		✓	✓
Double Action			✓	✓
Power shoe arm bracket			x	x
Angle of opening			120°	120°
Power adjustable by spring			✓	✓
Power adjustable by position			x	x
Sweep speed adjustable			✓	✓
Latching speed adjustable			✓	✓
Hold-open	Built in		x	x
	Hold open arm		x	x
Back-check	Self-regulating		x	x
	Adjustable at valve		x	x
Delayed action adjustable			x	x
Non-handed			✓	✓
Application	Regular (1)		x	x
	Parallel arm (66)		x	x
	Transom (61)		x	x
Guarantee/years			5 years	5 years

✓ =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.



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CONCEALED DOOR CLOSERS

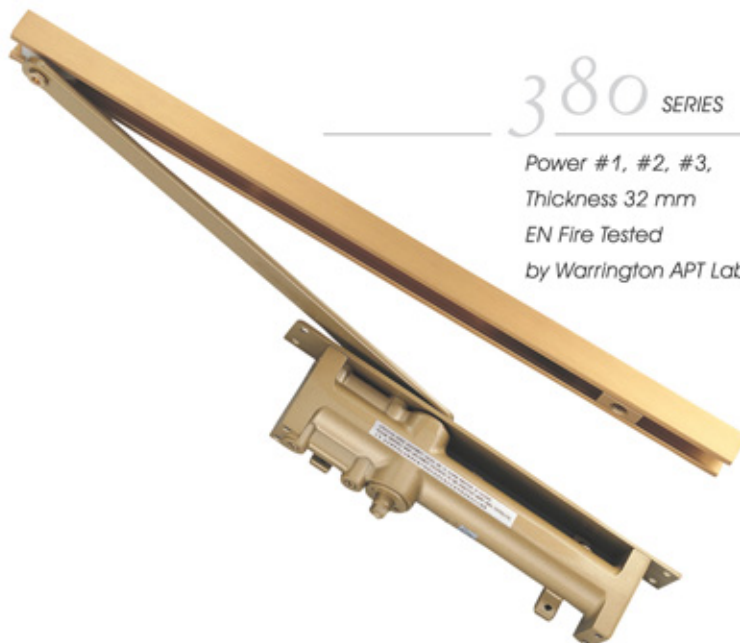


385 SERIES



Adjustable Power #2 to #4
Thickness 37 mm
Back Check [Optional]
EN Fire Tested
by Warrington APT Laboratories, UK

380 SERIES



Power #1, #2, #3,
Thickness 32 mm
EN Fire Tested
by Warrington APT Laboratories, UK

DATA AND FEATURES

DATA AND FEATURES			380	385
Variable closing force	Spring strength(EN)		1,2,3	2 to 4
Standard doors	750mm	36kg	381	x
	850mm	45kg	382	385
	950mm	60kg	383	385
	1100mm	80kg	x	385
Body dimensions(mm)	Length		230	255
	Width		56	61
	Thick		32	37
Arm	Standard		x	x
	Parallel		x	x
	Track (standard)		✓	✓
	Track (hold-open)		✓	✓
Rack and pinion			✓	✓
Power shoe arm bracket			x	x
Angle of opening			120°	120°
Power adjustable by spring			x	✓
Power adjustable by position			x	x
Sweep speed adjustable			✓	✓
Latching speed adjustable			✓	✓
Hold-open	Built in		x	x
	Hold open arm		x	x
Back-check	Self-regulating		x	x
	Adjustable at valve		x	○
Delayed action adjustable			x	x
Non-handed			✓	✓
Application	Regular (1)		x	x
	Parallel arm (66)		x	x
	Transom (61)		x	x
Guarantee/years			5 years	5 years

✓ =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.



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TRANSOM CLOSERS



850 TRANSOM CLOSER

10 Years Guaranteed
Power #2, #3, #4



DATA AND FEATURES
850

Variable closing force	Spring strength(EN)	2,3,4
Standard doors	850mm 70kg	852
	950mm 105kg	853
	1100mm 150kg	854
Body dimensions(mm)	Length	306
	Width	108
	Thick	40
Arm	Standard	✓
	Offset arm	○
Cam-action		✓
Angle of opening		130°
Sweep speed adjustable		✓
Latching speed adjustable		✓
Hold-open	Without hold-open	✓
	at 90° hold-open	○
	at 105° hold-open	○
Back-check	Self-regulating	x
	Adjustable at valve	○
Delayed action adjustable		x
Non-handed		✓
Guarantee/years		10 years

✓ =yes x=no ○ =option

GUARANTEE:

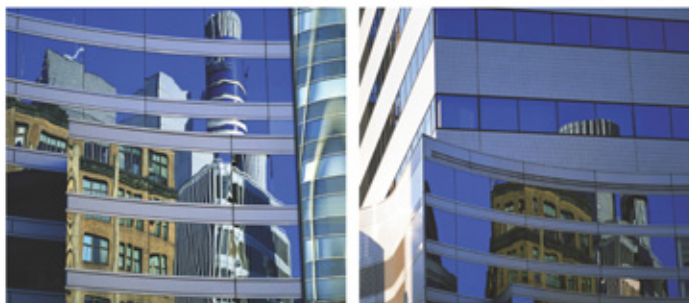
A free replacement ex-works of any closer proved defective by reason either of faulty manufacture or defect in materials.

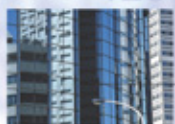
BACK CHECK:

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

COVER PLATE FINISHES:

Satin Stainless steel or polished brass.





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FLOOR HINGES



840 FLOOR SPRING



Power #2, #3, #4
Back Check (Optional)
EN Fire Tested
by Warrington APT Laboratories, UK



DATA AND FEATURES
840

Variable closing force	Spring strength(EN)	2,3,4
Standard doors	850mm 70kg	842
	950mm 105kg	843
	1100mm 150kg	844
Body dimensions(mm)	Length	306
	Width	108
	Thick	40
Arm	Standard	✓
	Offset arm	○
Cam-action		✓
Angle of opening		130°
Sweep speed adjustable		✓
Latching speed adjustable		✓
Hold-open	Without hold-open	✓
	at 90° hold-open	○
	at 105° hold-open	○
Back-check	Self-regulating	x
	Adjustable at valve	○
Delayed action adjustable		○
Non-handed		✓
Guarantee/years		10 years

✓ =yes x=no ○ =option

GUARANTEE:

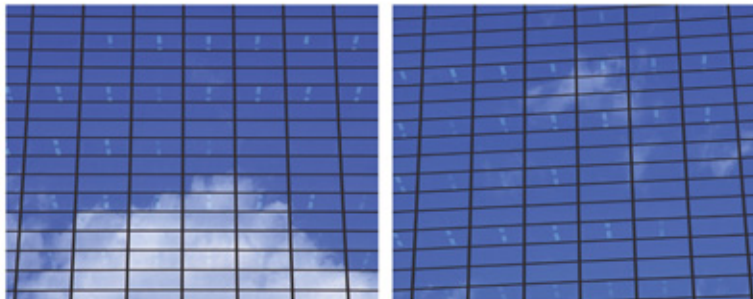
A free replacement ex-works of any closer proved defective by reason either of faulty manufacture or defect in materials.

BACK CHECK:

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

COVER PLATE FINISHES:

Satin Stainless steel or polished brass.





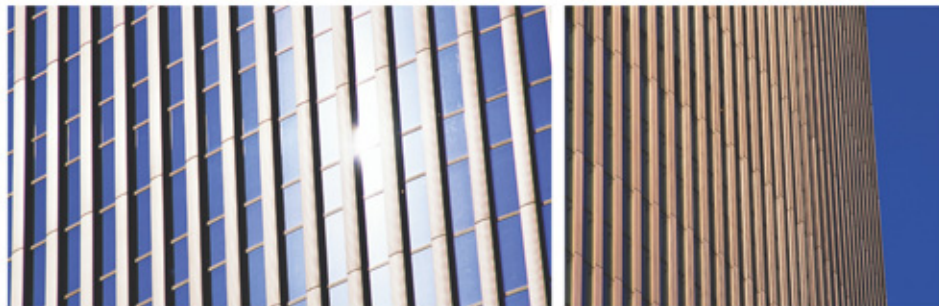
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FLOOR HINGES



220 FLOOR HINGES

10 Years Guaranteed
Power #2, #3, #4



DATA AND FEATURES
220

Variable closing force	Spring strength(EN)	2,3,4
Standard doors	850mm 70kg	222
	950mm 105kg	223
	1100mm 150kg	224
Body dimensions(mm)	Length	290
	Width	135
	Thick	47
Arm	Standard	✓
	Offset arm	○
Cam-action		✓
Angle of opening		120°
Sweep speed adjustable		✓
Latching speed adjustable		✓
Hold-open	Without hold-open	✓
	at 90° hold-open	○
	at 105° hold-open	○
Back-check	Self-regulating	x
	Adjustable at valve	x
Delayed action adjustable		x
Non-handed		✓
Guarantee/years		10 years

✓ =yes x=no ○ =option

GUARANTEE:

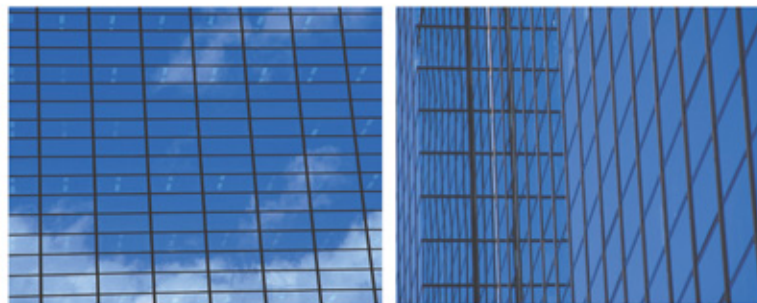
A free replacement ex-works of any closer proved defective by reason either of faulty manufacture or defect in materials.

BACK CHECK:

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

COVER PLATE FINISHES:

Satin Stainless steel or polished brass.



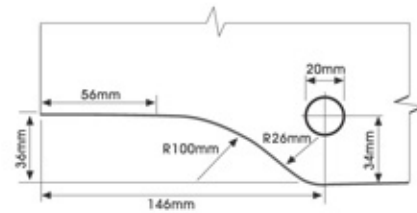


1234567890
1234567890

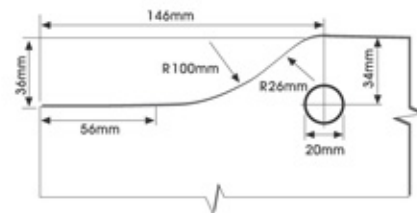
GLASS FITTINGS



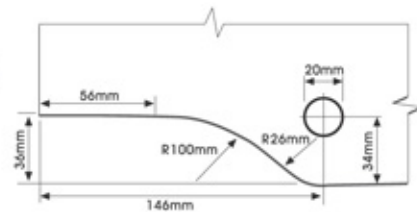
<PF-BP>
Bottom Patch



<PF-TP>
Top Patch

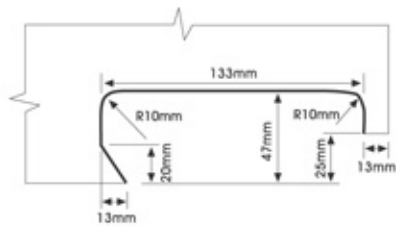


<PF-OPP>
Overhead
Pivot Patch

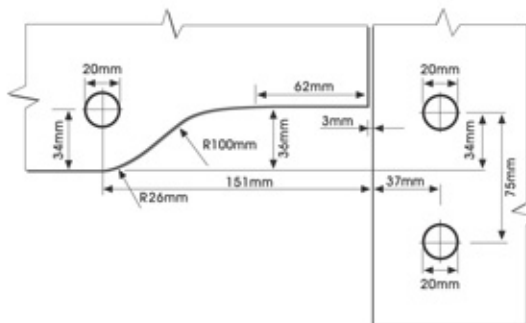




<PF-PL> Patch LOCK



<PF-SPC> SIDE PANEL CONNECTOR





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SHOWER HINGES

FINISHES

Bright Chrome Plate - CP

OTHER FINISHES

Satin Chrome - SC, Polished Brass - PB

TECHNICAL DATA

Self closing function when the door stays approx. 30°

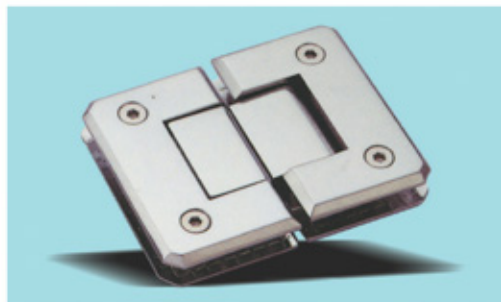
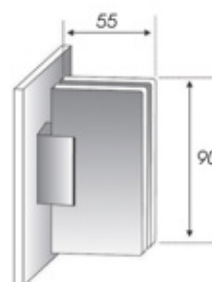
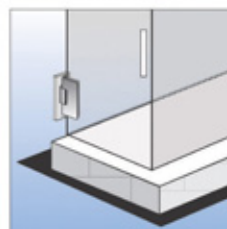
Suitable for 8mm thick glass but can be specified for 10mm thick glass

Width of up to 800mm with a maximum weight of 35kgs



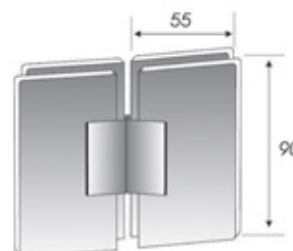
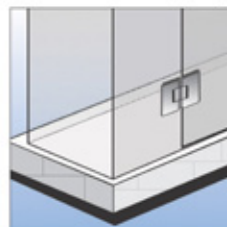
DSH-1

Wall to Glass Hinge



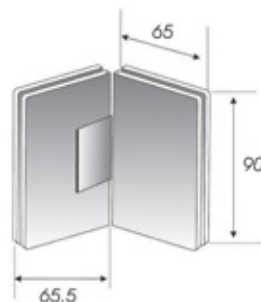
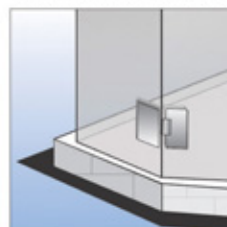
DSH-2

Glass to Glass 180° Hinge



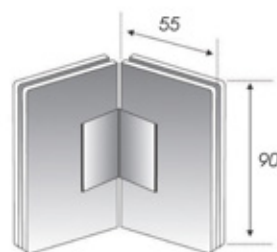
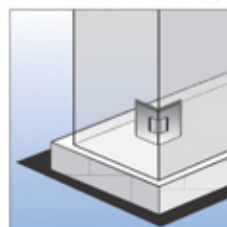
DSH-3

Glass to Glass 135° Hinge



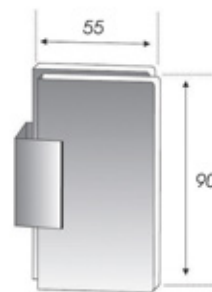
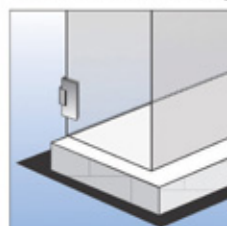
DSH-4

Glass to Glass 90° Hinge

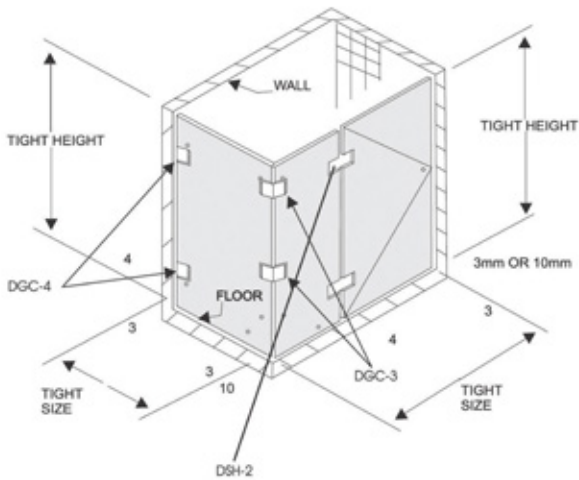


DSH-5

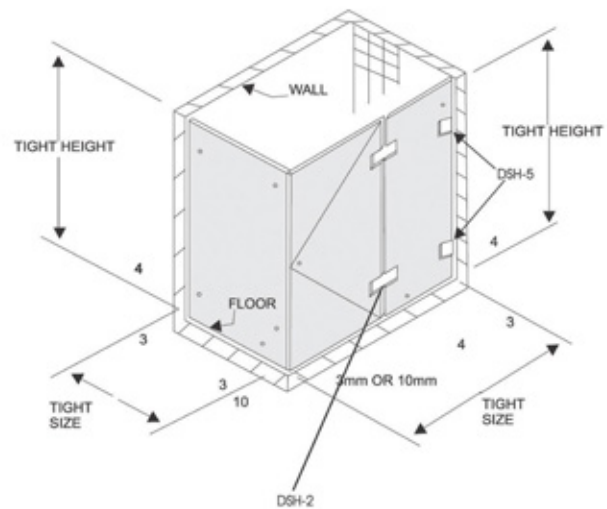
Wall to Glass Fixed Hinge



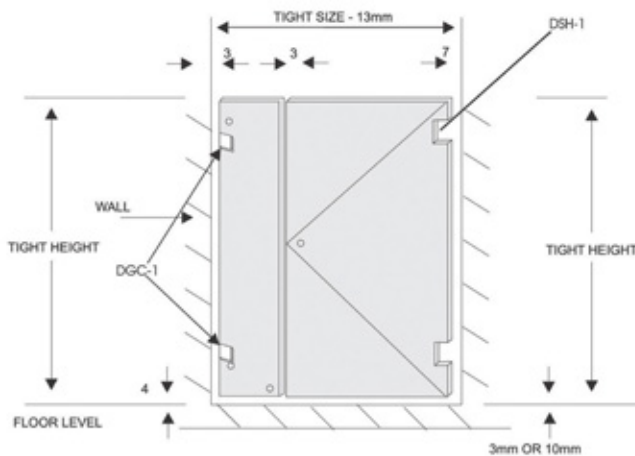
TYPICAL LAYOUTS FOR FRAMELESS SHOWER ENCLOSURES



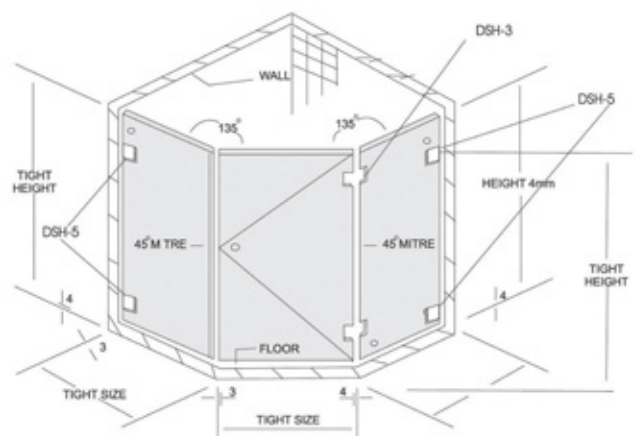
180° GLASS / GLASS LAYOUT (A)



180° GLASS / GLASS LAYOUT (B)



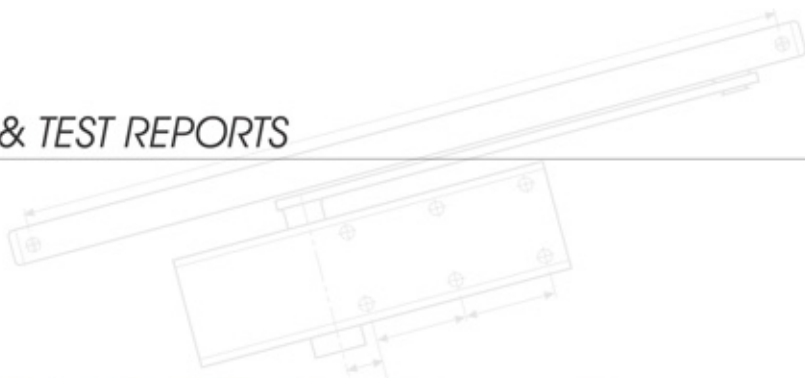
WALL / GLASS LAYOUT



135° GLASS / GLASS LAYOUT

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EQUIPMENT & TEST REPORTS



▲ Cycle Test



▲ Temperature Test



Fire Tested



▲ Wire Cutting



FM 60396

INTERNATIONAL STANDARDS

All products are manufactured under a quality management system BS 5750, ISO 9002, EN 29002, CNS 12681, Z4034, JIS Z9901 and ASQC Q91.



▲ Meeting



▲ R & D Center



▲ Precision Measurement



NUMBER: 1121



▲ Lathe Cutting



▲ CNC Cutting



