

GCC[®]

Economic Double Action

Floor Spring

GTS 840



Spindle Fixed



Spindle Interchangeable

Technical Data

Code No.	1	2	3	4
Spring strength/Closing force in Nm, approx.	15	20	25	33

Closing ranges

Two closing speed variable by valve adjustment provide full hydraulic control
 Valve 1: 130°-20° closing speed.
 Valve 2: 20°-0° latching range.



Two Adjustment Screw

One for Closing Speed and the other for Latching Speed.

Special Retaining Rings

Prevent the Adjusting Screws from falling out of the Closer Body, which is the main cause of closer failure.

1 First adjusting closing range
130°-20°

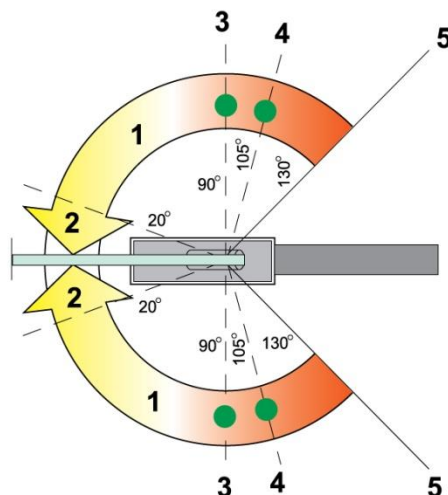
2 Second adjusting latching range
range from approx 20°-0°

3 Hold open at 90° (standard)

4 Hold open at 105° (optional)

5 Back stop at 130° (standard)

6 NHO: Non hold open (optional)



Cover plate available in:

SSS: Satin Polished Stainless Steel.

TP : Satin Polished Stainless Steel
with Titanium Plated(PVD Coated)

Specifications:

Maximum Door Width 43"(1100mm)
 Maximum Door Weight 242lbs.(110kg)

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Maximum Door Width 43"(1100mm)
 Maximum Door Weight 242lbs.(110kg)



Fixed Spindle Type



Interchangeable Spindle Type

Functions: HO & NHO

Code No.:

60= 90° Hold open & 130° Back stop(standard)

70= 105° Hold open & 130° Back stop(optional)

62=Non-Hold open & 130° Back stop(optional)

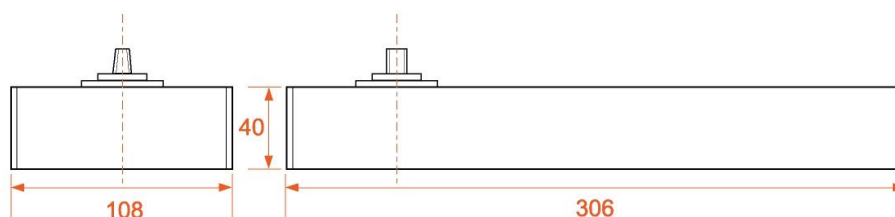


Adjustable Body

* Adjustment in cement case for height 4mm, width 10mm and length 7mm.

* For more adjustment, cement case in H: 45mm is available by order.

* Special design to make installation easy and hold the body tight without loosening after long use.

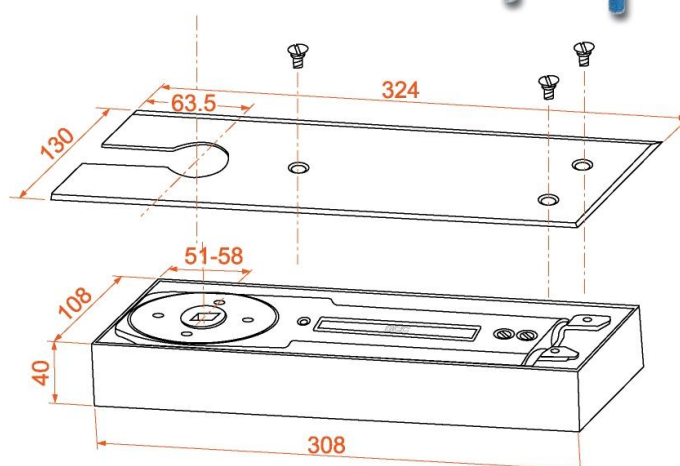


Cement case size: L: 306mm W: 108mm H: 40mm(standard)

Cement case size: L: 306mm W: 108mm H: 45mm(optional)



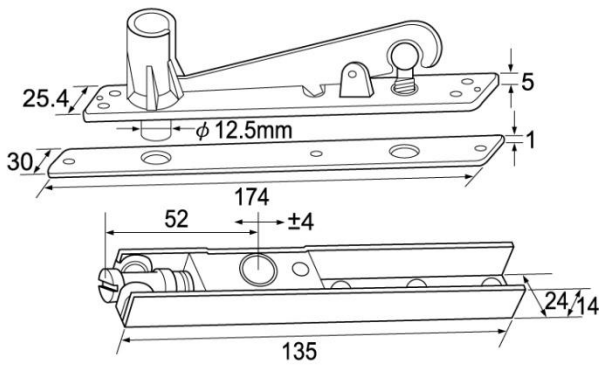
Spindle Code No.	"X" (Door Clearance)
-0	8mm
0	12mm
5	17mm
10	22mm
15	27mm
20	32mm
25	37mm



• Door clearance around 12mm for Fixed Spindle Type.

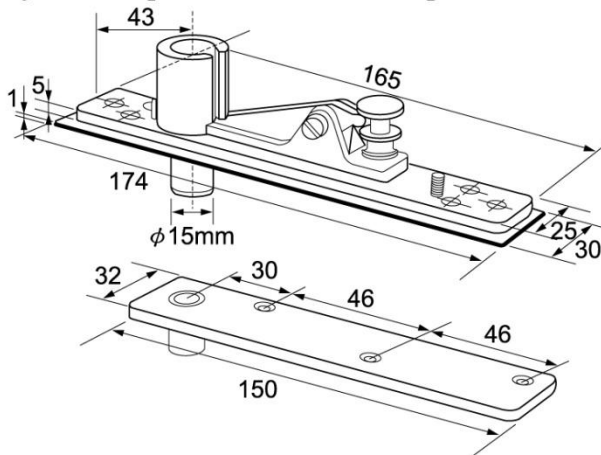
9116/7

Adjustable top centre with ϕ 12.5mm pin

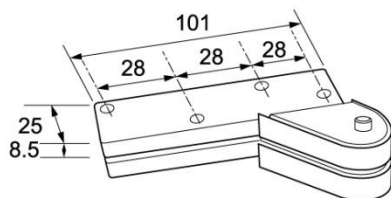


9118/9

Adjustable top centre with ϕ 15mm pin

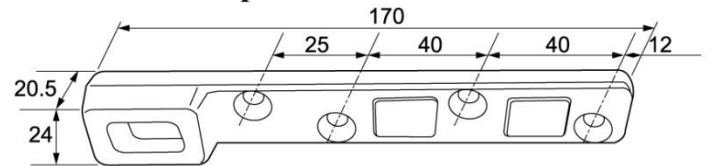


9143TC(L) Offset top centre



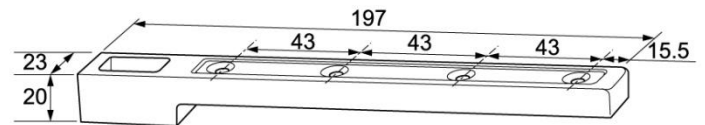
Drop forged steel, Zinc plated with stainless steel cover.

9123 Door strap



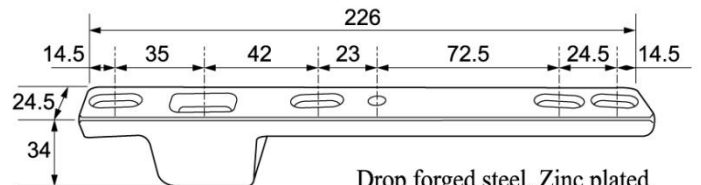
Drop forged steel, Zinc plated

9123L Door strap



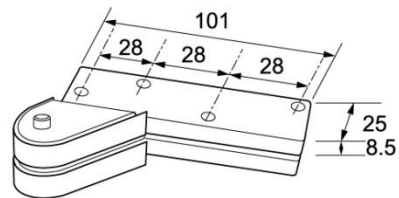
Drop forged steel, Zinc plated

9123XL Door strap



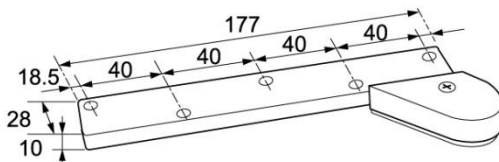
Drop forged steel, Zinc plated

9143TC(R) Offset top centre



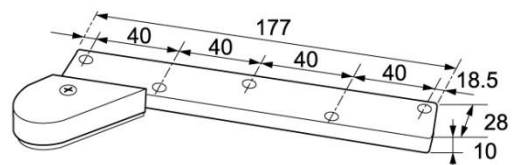
Drop forged steel, Zinc plated with stainless steel cover.

9143DS(L) Offset Door strap



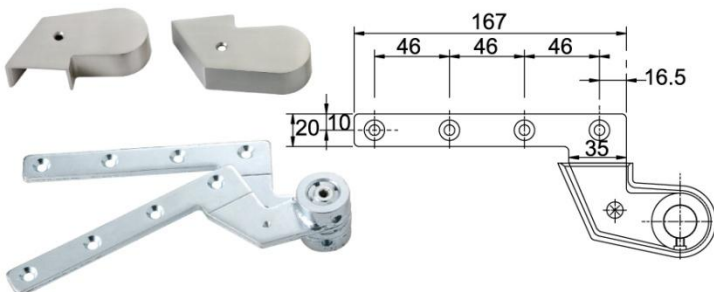
Drop forged steel, Zinc plated with stainless steel cover.

9143DS(R) Offset Door strap

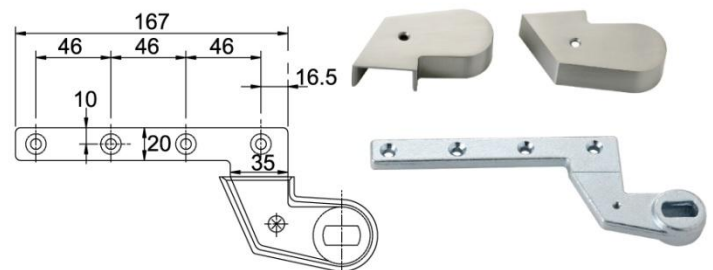


Drop forged steel, Zinc plated with stainless steel cover.

9149TC Offset top centre



9149DS Offset Door strap



● 9149TC, 9149DS are can be used for both left or right hand.

Accessories

9116/7

Adjustable top centre with ϕ 12.5mm pin



9118/9

Adjustable top centre with ϕ 15mm pin



9143DS(R) Offset door strap



9143TC(R)

Offset top centre

9123 Door strap



9123L Door strap



9123XL Door strap



9143DS(L) Offset door strap



9143TC(L)

Offset top centre

For detailed technical information of other **GCC** Door closers, please refer the related **GCC** catalogues.



GT Series



Full range of fittings for frameless tempered glass doors, please refer to **GCC** tempered glass fittings catalog.

Pivoting Door System



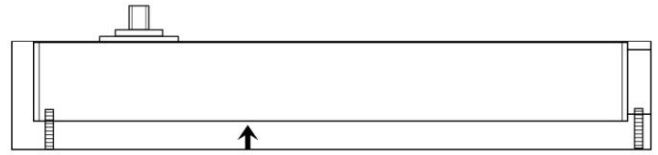
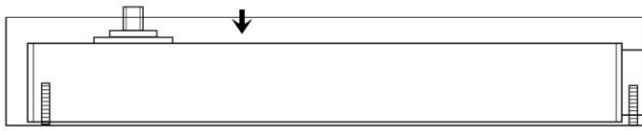
GP Series



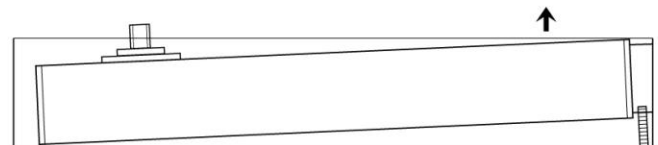
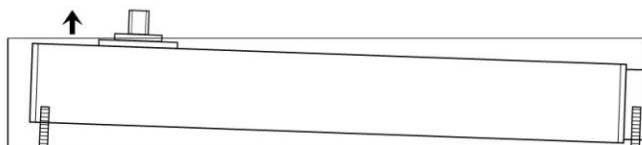
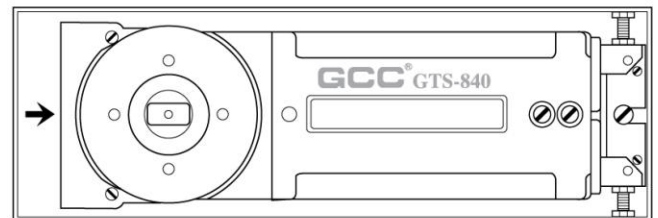
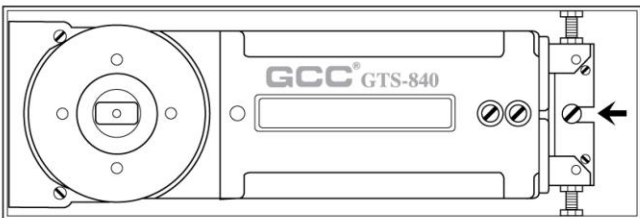
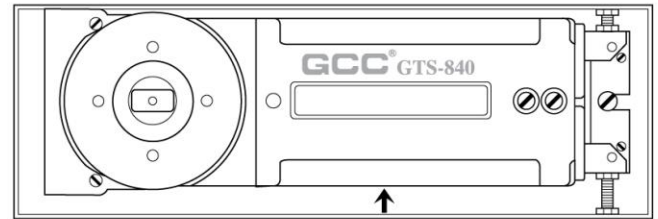
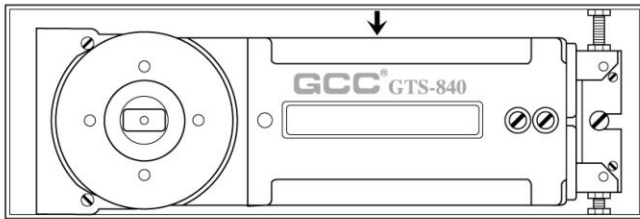
Door Rail System



Horizontal & Vertical Adjustments



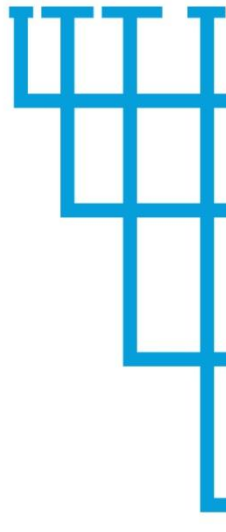
Height adjustment in **GCC** standard cement case(H:40mm) is 4mm
Deep cement case(H:45mm) is available by order for more adjustment in height(9mm)



How To Order

GCC Floor Spring

GTS 840-160SS-N



Spring strength/closing force:
 1=15NM
 2=20NM
 3=25NM
 4=33NM

Function: 60=90° Hold open & 130° back stop(standard)
 70=105° Hold open & 130° back stop(optional)
 62=Non-hold open & 130° back stop(optional)

Cover plate finish: SS= Satin Polished Stainless Steel
 TP= Stain Polished Stainless Steel
 with Titanium Plated(PVD coated)

Cement case type: N=40mm(Standard)
 D=45mm(Optional)

Note: Accessories must be ordered separately



Your product quality and safety mark, 500,000 cycles test approved
 According to EN 1154: 1996 (except clause 7.2.2 & 7.4)
 SS 332: 2000: clause 5 standard requirements

TEST REPORT

Year Ref: FEPL/KL/2002/279 Date: 2002-12-10
 Our Ref: 545021420/ST Page: 1/3
 PO: 69653771

NOTE: This Report is issued subject to the "Terms and Conditions Governing Technical Services" set out in the "Support for Technical Services" form. The terms and conditions governing the issue of this report are set out therein.

Subject:
 Cyclic movement endurance test on GCC GTS-840-362, size 3 floor spring with fixed backcheck function submitted by FireLine Engineering Pte Ltd.

Tested for:
 Good Credit Corporation
 P.O. Box 1700 Taichung 400
 Taiwan, R.O.C.

Attn: Mr Harrison Liao

Date submitted:
 2002-05-30

Test duration:
 2002-05-04 to 2002-09-30

Method of test:
 1.0 EN 1154 : 1996 (except clause 7.2.2 & 7.4) : Building hardware-Controlled door closing devices - Requirements and test methods or Singapore Standard 332 : 2000 : Clause 5 : Cyclic movement endurance test.

Description of sample:
 2.0 The description of the door closer submitted for the test, is as follows:
 2.1 Brand : "GCC" GTS-840-362 with fixed backcheck function
 2.2 Overall dimension : 306mm x 105mm x 42mm(1)

Results:

3.0 The door closer was verified to comply with the following items:
 3.1 Permanent marking on closer body : "GCC" GTS-840-362
 (Brand/model number/power size)
 3.2 The manufacturer's installation instructions were provided.
 3.3 There was no manual hold open device.
 3.4 The control regulators operated only by means of a tool.
 3.5 Adjustment of closing action was by means of tool.
 3.6 There was no delayed action function.

4.0 Measurement after 5,000 test cycles

Description	Measurements		EN 1154 (SS 332 : 2000) Requirement
	Right	Left	
Between 0° to 4°	Closing moment: 22.3	23.5	18 to 24 N.m
Between 80° to 92°	Opening moment: 39.2	39.5	6 N.m
	Closing moment: 17.8	18.4	
Between 0° to 90°	Opening moment: 47.3	51.6	4 N
	Closing moment: 7.0	11.2	
Between 0° to 90°	Opening moment: 43.0	43.9	47 N
	Closing moment: 56.9	59.5	
Between 0° to 4°	Efficiency: 56.9	59.5	50%

Closing time from 90°
 Sustainability: Yes
 Starting overload test: Yes

Verification after 100,000 test cycles
 Check: Complied

Measurement after 500,000 test cycles

Description	Measurements		EN 1154 (SS 332 : 2000) Requirement
	Right	Left	
to close from 90° to fully open	6.8 sec (original value: 4.8 s)		
0° to 4°	Closing moment: 22.4	20.5	18 to 24 N.m
	Opening moment: 37.2	34	
80° to 92°	Closing moment: 18.7	23	6 N.m
	Opening moment: 45.9	5	
0° to 90°	Closing moment: 17.4	17	4 N
	Opening moment: 41.7	41	
0° to 90°	Efficiency: 60.2		50%
Sustainability	Yes		
at position	Yes		
to position	Compl		

Sharon Tong
 Senior Engineer

Joseph Chng
 Assistant Vice President
 (Fire Safety & Security Products)
 Mechanical

7.0 Observations throughout test

Fluid leakage	No leakage	No fluid leakage from door closer
Damage	No damage	No damage to door closer or its arms that would adversely affect its performance

Conclusion:
 According to EN 1154 : 1996 (except clause 7.2.2 & 7.4) or Singapore Standard 332 : 2000 : Clause 5 : Cyclic movement endurance test, the test results obtained show that the floor spring door closer GCC GTS-840-362 size 3, floor spring with fixed backcheck function, meet with the requirements and is classified as:

3 8 3 1 1 0

PSB Corporation
 Your product quality and safety mark

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In the field of architectural fittings for aluminum & tempered glass doors. both high quality and total design flexibility are essential criteria together with ease of installation, safety and function.

GCC full range of fittings are aesthetically designed and manufactured to provide practicality and security to tempered glass assemblies, such as Tempered Glass Door Fittings, PVC Seals W/Weather Strips, Glass Clamps, Shower Door Hinges, Handles & Knobs, PVC Seals & Wipes and Reinforcement Bars for Shower Screen. Door Rails, Pivoting Door systems, office partition systems, Lever Hinges & Locks, Heavy-Duty Sliding Wall systems, Floor Spring, Concealed Overhead Door Closer, Glass Connectors....etc. For details welcome to visit our website at www.gccintw.com.tw

GCC will be happy to help your special requirements, for any doubts, please contact your nearest **GCC** distributors for any technical assistance on parts and services, or contact us directly.

If you are looking for high quality products, **GCC** is your best choice.



Agent/ Distributor



Member
NGA
National Glass
Association

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