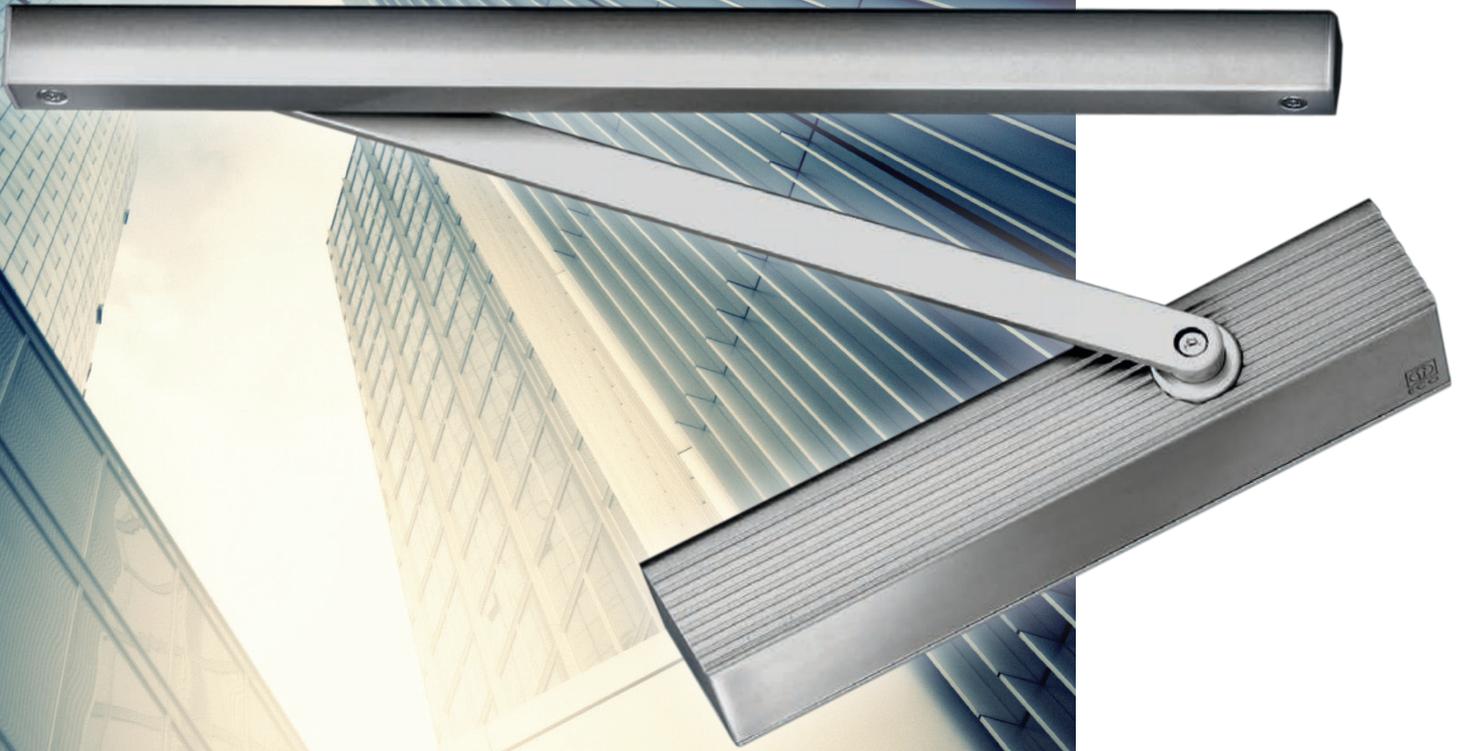


ECO Newton

A new generation of door controls



Door Closers

Floor Springs

Transom Closers

Pivots

Patch Fittings

Pull Handles

GAINSBOROUGH

Architectural HARDWARE



ECO

COMPANY INTRODUCTION

A family owned German company, ECO-Schulte has seen continuous growth over 80 years. World renowned for innovation and quality, ECO is committed to manufacturing cutting edge door control systems from the highest grade core materials. ECO-Schulte offers an extensive product range, from simple latches to highly complex panic lock systems as well as a complete offering of door closers to cover almost every imaginable application.

Innovation and vision have made ECO an indispensable partner of the architectural hardware industry. All new products are developed and epitomise the latest in European styling whilst adhering to strict European standards.



COMPANY PHILOSOPHY

“The total is more than the sum of its parts”

This old adage by the great philosopher Aristotle is the foundation of our ECO philosophy. Furniture, door closers, locks and panic hardware are important individual components that equip doors with functionality. But only as a whole, as a tuned system, will they show their true sophistication, ensuring safe functionality even under extreme conditions.

System technology for doors

This is the standard to which we have dedicated decades of research, development and production. For us, this means:

- Faultlessly tuned functional elements.
- A high degree of safety due to perfectly matched individual components.
- European standards as a basis of every product development.

PASSION FOR
TOTAL
SOLUTION

PROJECT REFERENCES WORLDWIDE

| | | |
|---------------------------|-----------------------------------|---|
| German Bank, Turin | Savings Bank, Bonn | Nato Air Base, Geilenkirchen |
| Hotel Astoria, Vienna | Sterncenter, Potsdam | Hotel Intercontinental, Berlin |
| Airport Hotel, Dusseldorf | Civicism Department, Munich | Roche Research Centre, Basel |
| Hotel Arcade, Cologne | Olympia Stadium, Lillehammer | Restaurant Zugspitze, Zugspitze |
| Telecom, Braunschweig | Olympia RTV-Center, Lillehammer | Tax Bureau, Donauwoerth |
| Research Centre, Dessau | Centro Commercial, Lisbon | Le Meridien Domhotel, Cologne |
| Policlinic, Munich | Railway Station, Zurich | Provincial Hospital, Selb |
| New Fair, Munich | Indoor Gymnasium, Bern | Rhein-Main-Theater, Niedernhausen |
| Airport, Leipzig | Holiday Inn Hotel, Merseburg | Kempinski Grand-Hotel, Heiligendamm |
| CentrO, Oberhausen | SAS Plaza Hotel, Hamburg | Technician Health Fund, Hamburg |
| Power Plant, Deizlsau | Fiat Office Building, Turin | Langenscheidt Publishing Company, Munich |
| Prison, Berlin | Airport-Center 3, Salzburg | Chemnitz Opear House, Chemnitz |
| Abbey Notre Dame, Tilburg | Euroforum, Luxemburg | Norw. Inst. f. Luftforsch., University Oslo |
| Fuji-factory, Tilburg | Migros Office Building, Solothurn | Congress hall, University of Computer Science, Innsbruck |
| Delbrueck-House | Norwegian Embassy, Mosco | European Union Headquarter, Berlaymont Building, Brussels |

PROJECT REFERENCES IN CHINA

| | | |
|---|---|--|
| ChaoYang Hospital, Beijing | Domino Coding Ltd., Shanghai | Hong Kong Tseung Kwan O DSS Secondary School |
| CISCO Office Building, Beijing | Fuli Centre, Guangzhou | The Putman Boutique Hotel, Hong Kong |
| Eastbalt Bakery Company, Beijing | Fuli City, Guangzhou | Hong Kong Education Resources Centre |
| Chengpin Apartment Building, Beijing | Fuli Shoe City, Guangzhou | Marriott Resort & Spa, Sanya |
| Lanbao Building, Beijing | The Ritz-Carlton Hotel, Guangzhou | Nanjing Industrial & Commercial Bank |
| Huamao Centre Apartment Building, Beijing | The Grand Hyatt Hotel, Guangzhou | Hong Kong-Shenzhen Western Corridor |
| Xinhua Hospital, Shanghai | Hong Kong Metro | Passenger Terminal & Ancillary Buildings, Shenzhen |
| Yalong Plaza, Shanghai | Victoria Peak, Hong Kong | Qingdao Yihe International |
| Dow Corning Laboratory, Shanghai | Hong Kong International Airport Hotel | Qingdao Haiyun Eastern |
| Shanghai Pudong Development Bank | GAP Hong Kong Office | Jiangsu Province No.1 People's Hospital |
| Tianci Apartment Building, Shanghai | Hong Kong University Stanley Ho Sports Centre | |



TGA-ZM-03-90-00
Certificate of approval of quality management Systems
TO DIN EN ISO 9001
Certified and supervised by



DOOR CLOSERS

The safety principle: ECO Newton door closers

Door closers must be able to cope with routine operation and emergency situations: in everyday use they make it easier to open the doors, while softening the door strike and ensuring secure closing. In emergency situations they guarantee that fire zones can be separated reliably, thus saving lives. The ECO Newton door closers were designed with disability access standards in mind.

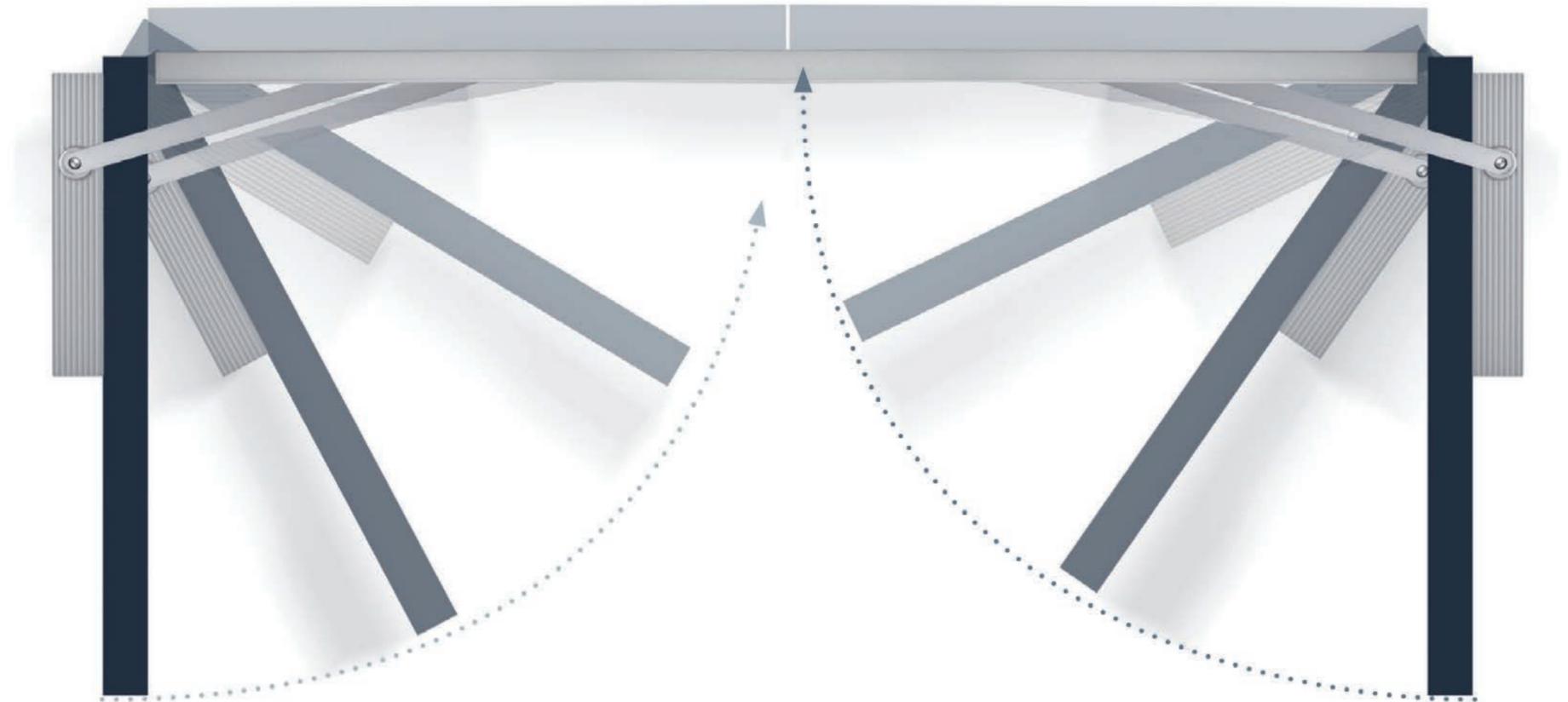
The new ECO Newton door closer generation combines tried and tested spring force retention with two innovative concepts: the new ECOvalve technology and new ECOclic stainless steel cover. One provides a new level of quality in the precise adjustment of the closer while the other ensures that the adjustment elements are easily accessible, but only by specialists.

With two models in a uniform design, ECO Newton door closers cover many applications in and around buildings. They are available with a classical articulated arm and aesthetic slide rail.



The choreography of security

Door hold-open systems are highly complex systems which were developed to separate fire and smoke sections purely mechanically and independently. In the event of fire, a locking sequence is set in motion which is reminiscent of an exact choreography in its predetermined precision. A precisely defined closing sequence is prescribed with double-leaf doors: the passive wing must close first, then the active wing.



High performance power retention with hydraulic damping: ECO Newton system door closers are designed for far more than 500,000 closing operations.

DOOR CLOSERS

The best thing that can happen to a door

The profiled aluminium body unit of the new ECO Newton door closer generation is the heart-piece and functional highlight of this series. Although its characteristic profile gives it a reduced, technical appearance, the system also shines with functional highlights.

TWO UNITS FOR THE ENTIRE BUILDING

The ECO Newton closer portfolio covers all door dimensions with only two basic closer units. In addition to this, end-mounted valve technology permits the mounting of the same closer on the hinge and hinge-opposite side (TS 41, 50 and 20).



STAINLESS STEEL AND ALUMINIUM

Elegant materials are standard with ECO Newton: the stainless steel cover and aluminium body unit of the new door closer generation are perfectly matched with one another - in an architecturally compatible form language.



INTELLIGENT STAINLESS STEEL COVER

ECOclíc envelops the aluminium body unit with the power of spring force. The cover conceals all of the adjusting elements and cannot be removed without tools, thus securing the closer against unauthorised access.



PATENTED ASSEMBLY SYSTEM

The base plate of the ECO Newton closer is fitted with standardised drill holes which allow its simple assembly. The special feature here is that it is surrounded and completely covered by the aluminium closer body unit.



NEW VALVE TECHNOLOGY

The new ECOvalve technology provides a wide and precisely adjustable setting range and thereby the simple, highly precise and permanently secure adjustment of all parameters of the closing process.



Body unit:
Silver RAL 9006
ECOclíc: stainless steel satin

ECO Newton system overview

Door closer with slide rails

| Description | Certificates ¹ | Dimensions in EN ² | L x B x D in mm | Latching speed ³ | Back-check ⁴ | Closing speed adjustment | Delayed action ⁵ | DIN L + R / HS + OS ⁶ |
|-------------|---------------------------|-------------------------------|-----------------|-----------------------------|-------------------------|--------------------------|-----------------------------|----------------------------------|
| TS-61 EN | F / CE | 5-6 infinitely variable | 267 x 62 x 49 | front-mounted | adjustable | front-mounted | optional | yes / yes ⁷ |
| TS-61 EN | F / CE | 2-5 infinitely variable | 287 x 62 x 49 | front-mounted | adjustable | front-mounted | optional | yes / yes ⁷ |
| TS-51 EN | F / CE | 1-4 infinitely variable | 265 x 61 x 46 | front-mounted | adjustable | front-mounted | - | yes / yes ⁷ |
| TS-41 EN | F / CE | 1-4 infinitely variable | 243 x 56 x 40 | end-mounted | constant | end-mounted | - | yes / yes |

Articulated arm closer

| Description | Certificates ¹ | Dimensions in EN ² | L x B x D in mm | Latching speed ³ | Back-check ⁴ | Closing speed adjustment | Delayed action ⁵ | DIN L + R / HS + OS ⁶ |
|-------------|---------------------------|-------------------------------|-----------------|-----------------------------|-------------------------|--------------------------|-----------------------------|----------------------------------|
| TS-50 EN | F / CE | 1-5 infinitely variable | 243 x 56 x 40 | end-mounted | constant | end-mounted | - | yes / yes |
| TS-20 EN | F / CE | 2 / 3 / 5 | 243 x 56 x 40 | end-mounted | constant | end-mounted | - | yes / yes |

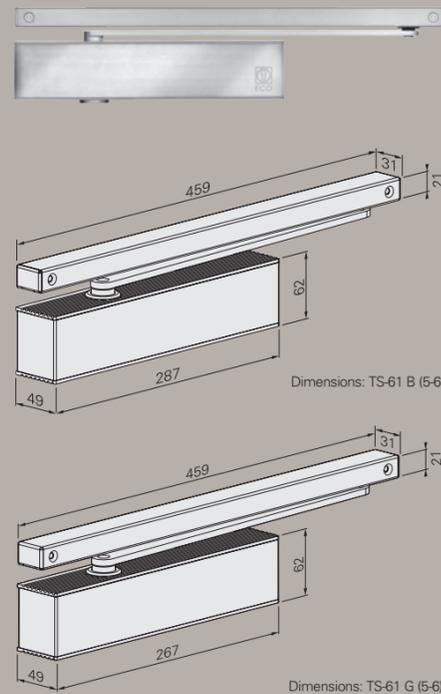
Legend

- 1) EN 1154 – CE mark and fire rated for up to 2 hours on selected cores to AS 1905.1-2005. Please consult your local Gainsborough representative prior to purchase.
- 2) Door size classes in line with European Norm (EN).
- 3) Increases closing force shortly before closing so that the door snaps securely into the lock.
- 4) Regulates the force necessary to open the door.
- 5) Convenience delayed action, eg. for hotel room doors.
- 6) Assembly left and right (L + R) possible, as well as hinge side (HS) or hinge-opposite side (OS).
- 7) Please order version G (= hinge-opposite side).

DOOR CLOSERS

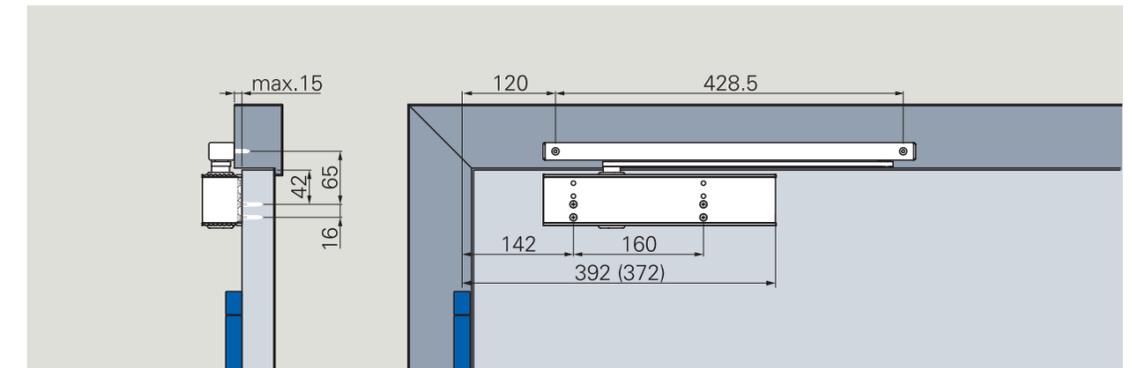
Door closer with slide rail

ECO Newton TS-61 B hinge side with delayed action (DA)
 ECO Newton TS-61 G hinge opposite side with delayed action (DA)
 Closing force 2-5 (5-6) tested according to EN 1154 A for door widths up to 1,250mm (1,400mm) continuously adjustable.
 Latching speed, closing speed and back-check continuously adjustable. Delayed action. Same version DIN left and DIN right.
 Mounting height with mounting plate only 49mm. Door opening angle: 180°. Fire rated for up to 2 hours on selected cores to AS 1905.1-2005. Please consult your local Gainsborough representative prior to purchase.

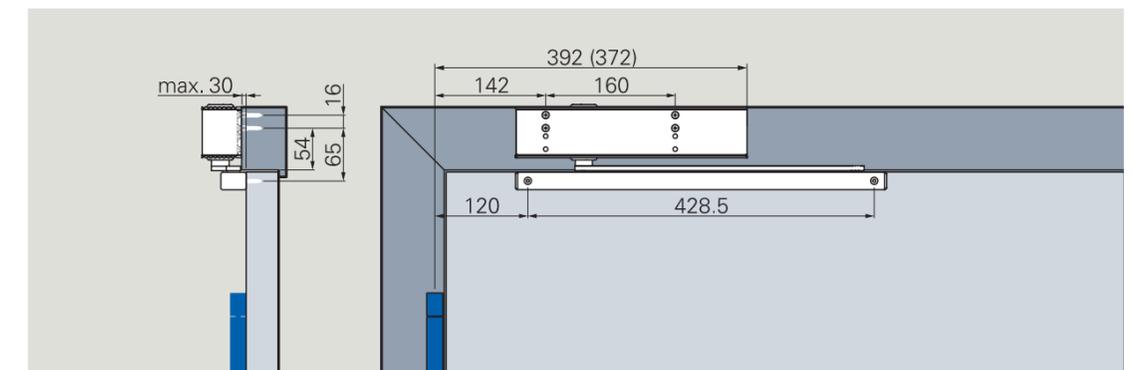


Hinge side TS-61 B

Mounting with slide rail B, illustration DIN left door, DIN right laterally reversed



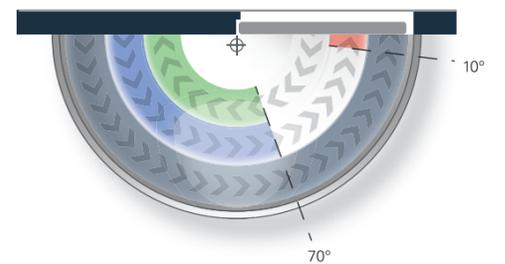
Standard mounting with slide rail B, hinge side



Head mounting with slide rail B, hinge side

- **Closing speed**
Continuously adjustable closing speed from approx. 180° to 0°.
- **Latching speed**
Increases the closing speed and thus the safe closing of the door, for example to overcome door seals, door locks and high air pressure. Continuously adjustable, works between 10° to 0°.
- **Back-check**
Reduces the opening speed starting at 70° and avoids the slamming of the door. Back-check continuously adjustable.
- **Delayed action**
Reduces the closing speed and allows a safer passing for people and transport. Especially suitable for use in nursing homes and hospitals. Delay action continuously adjustable. Works between 180° to 70°.

Closing force diagram ECO Newton TS-61 B, hinge side



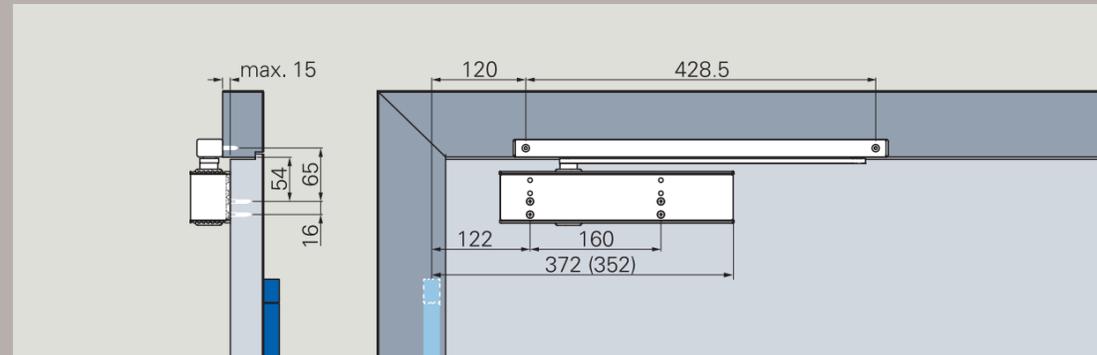
| CLOSING FORCE | | |
|-------------------------------------|-------------|-------------|
| Continuously adjustable TS-61 (5-6) | min. size 5 | max. size 6 |
| OR | | |
| Continuously adjustable TS-61 (2-5) | min. size 2 | max. size 5 |
| Default delivery condition: size 3 | | |



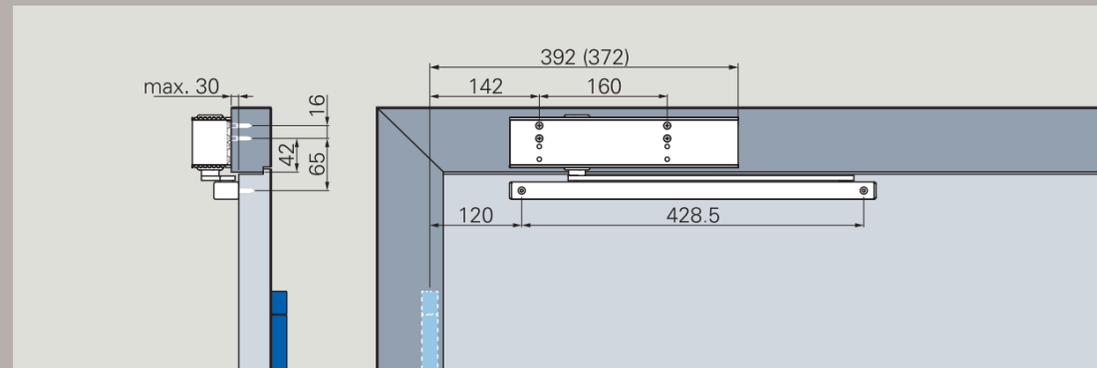
DOOR CLOSERS

Hinge opposite side TS-61 G

Mounting with slide rail B, illustration DIN right door, DIN left laterally reversed



Standard mounting with slide rail B, hinge-opposite side

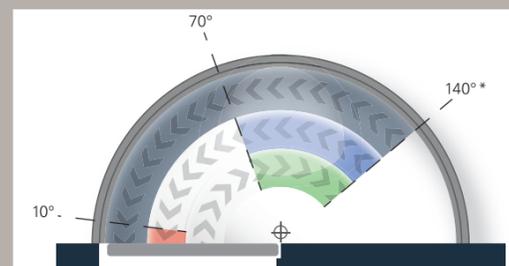


Head mounting with slide rail B, hinge-opposite side

- **Closing speed**
Continuously adjustable closing speed from approx. 140° to 0°.
- **Latching speed**
Increases the closing speed and thus the safe closing of the door, for example to overcome door seals, door locks and high air pressure. Continuously adjustable, works between 10° to 0°.
- **Back-check**
Reduces the opening speed starting at 70° and avoids the slamming of the door. Back-check continuously adjustable.
Note: Back-check not appropriate for head-mounting/ mounting on hinge-opposite side.
- **Delayed action**
Reduces the closing speed and allows a safer passing for people and transport. Especially suitable for use in nursing homes and hospitals. Delay action continuously adjustable. Works between 140° to 70°.



Closing force diagram ECO Newton TS-61 G, hinge-opposite side



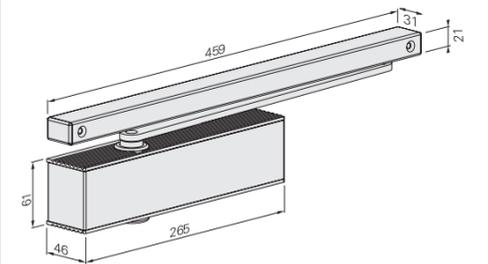
*Varies according to door thickness and type of hinge.
A door stopper for opening limit is a must!

Door closer with slide rail

ECO Newton TS-51 B hinge side

ECO Newton TS-51 G hinge opposite side

Closing force 1-4 tested according to EN 1154 A (for door widths up to 1,100mm) continuously adjustable. Latching speed, closing speed and back-check continuously adjustable. Same version DIN left and DIN right. Mounting height with mounting plate only 46mm. Door opening angle: 180°. Fire rated for up to 2 hours on selected cores to AS 1905.1-2005. Please consult your local Gainsborough representative prior to purchase.

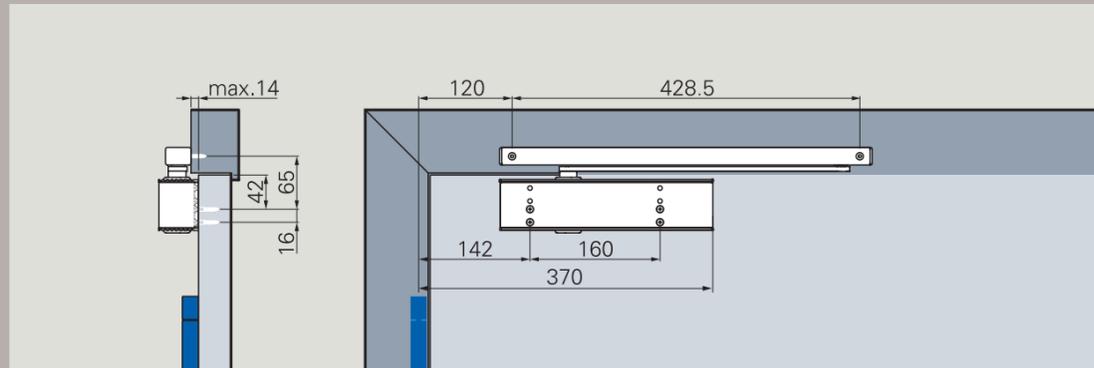


Dimensions: TS-51

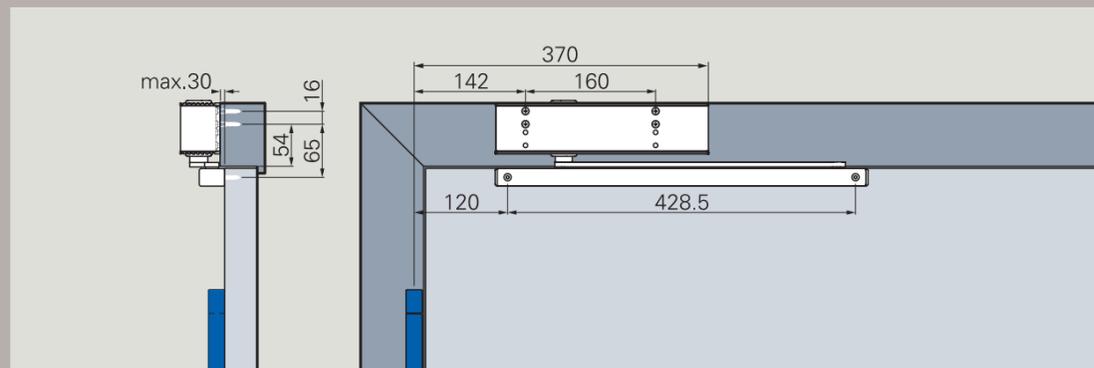
DOOR CLOSERS

Hinge side TS-51 B

Mounting with slide rail B, illustration DIN left door, DIN right laterally reversed



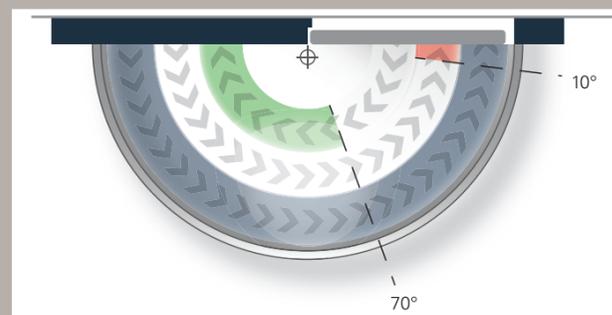
Standard mounting with slide rail B, hinge side



Head mounting with slide rail B, hinge side

- Closing speed
Continuously adjustable closing speed from approx. 180° to 0°.
- Latching speed
Increases the closing speed and thus the safe closing of the door, for example to overcome door seals, door locks and high air pressure. Continuously adjustable, works between 10° to 0°.
- Back-check
Reduces the opening speed starting at 70° and avoids the slamming of the door. Back-check continuously adjustable.

Closing force diagram ECO Newton TS-51 B, hinge side

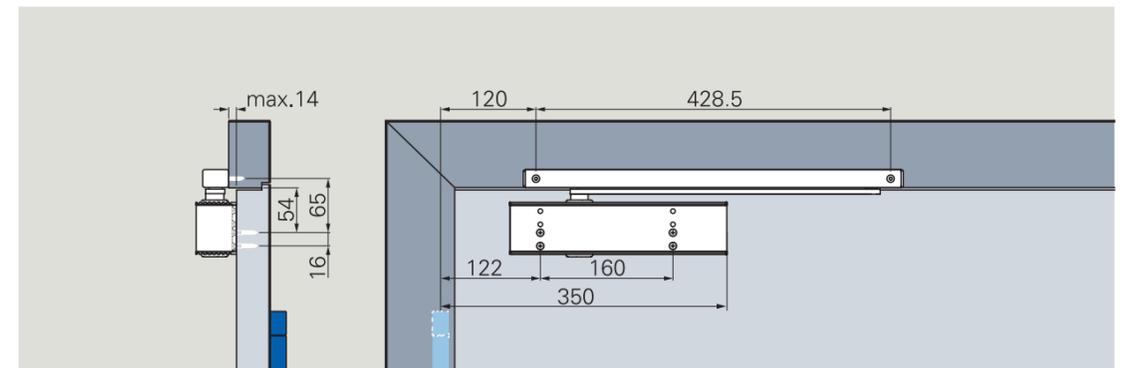


| | | |
|-----------------------------|-------------------------|-------------|
| CLOSING FORCE | Continuously adjustable | min. size 1 |
| | | max. size 4 |
| Default delivery condition: | | size 3 |

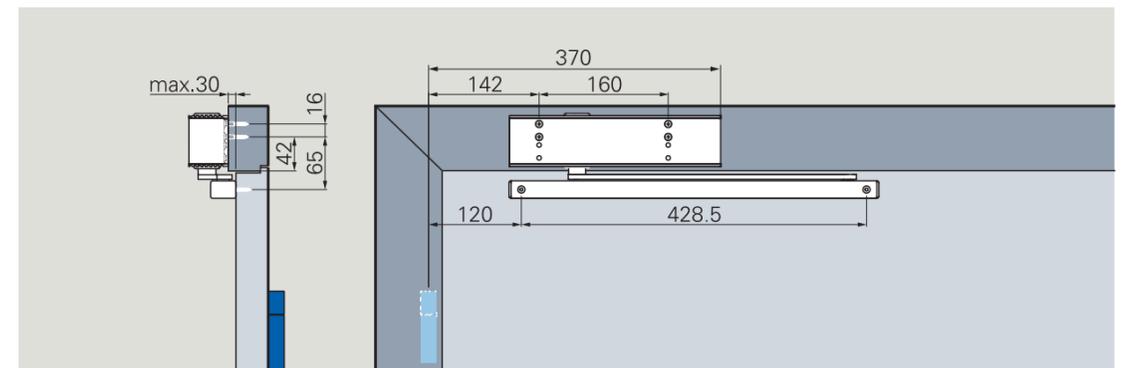


Hinge opposite side TS-51 G

Mounting with slide rail B, illustration DIN right door, DIN left laterally reversed



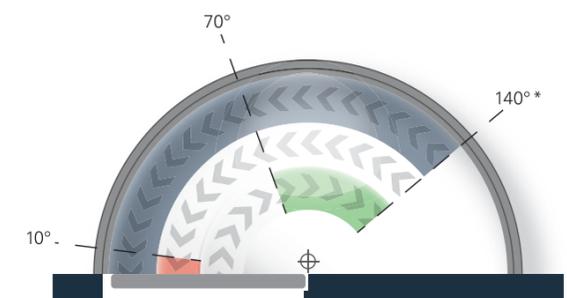
Standard mounting with slide rail B, hinge-opposite side



Head mounting with slide rail B, hinge-opposite side

- Closing speed
Continuously adjustable closing speed from approx. 140° to 0°.
- Latching speed
Increases the closing speed and thus the safe closing of the door, for example to overcome door seals, door locks and high air pressure. Continuously adjustable, works between 10° to 0°.
- Back-check
Reduces the opening speed starting at 70° and avoids the slamming of the door. Back-check continuously adjustable.

Closing force diagram ECO Newton TS-51 G, hinge-opposite side



Note: Back-check not appropriate for head-mounting/mounting on hinge-opposite side.

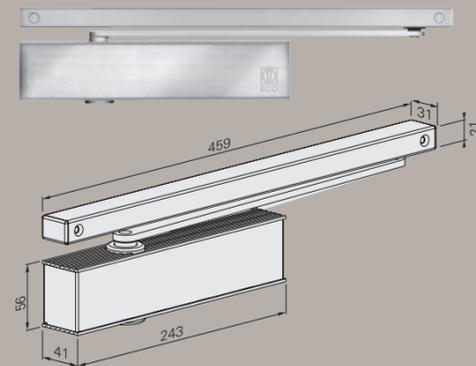
*Varies according to door thickness and type of hinge.
A door stopper for opening limit is a must!



DOOR CLOSERS

ECO Newton TS-41

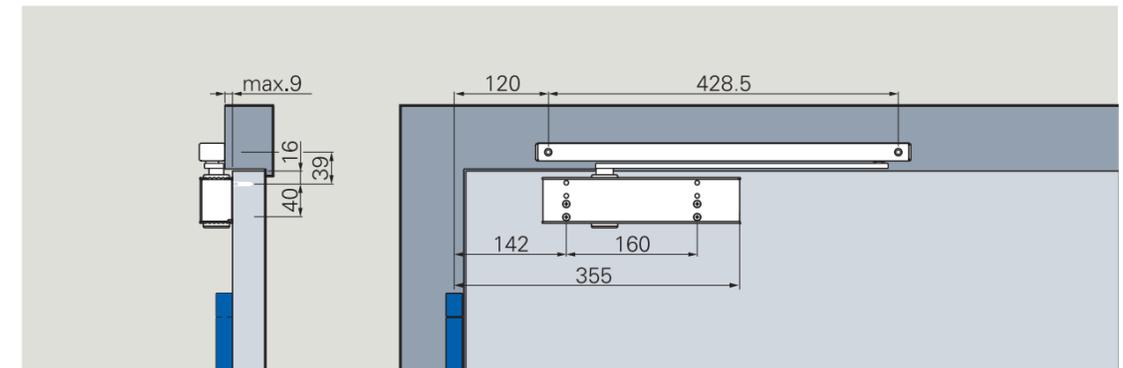
Closing force 1-4 tested according to EN 1154 A (for door widths up to 1,100mm) continuously adjustable. Latching speed and closing speed continuously adjustable. Back-check fixed. Same version DIN left and DIN right. Mounting height only 41mm. Weight: 1,380g. Max. door opening angle: 180°. Mounting plate as option. Fire rated for up to 2 hours on selected cores to AS 1905.1-2005. Please consult your local Gainsborough representative prior to purchase.



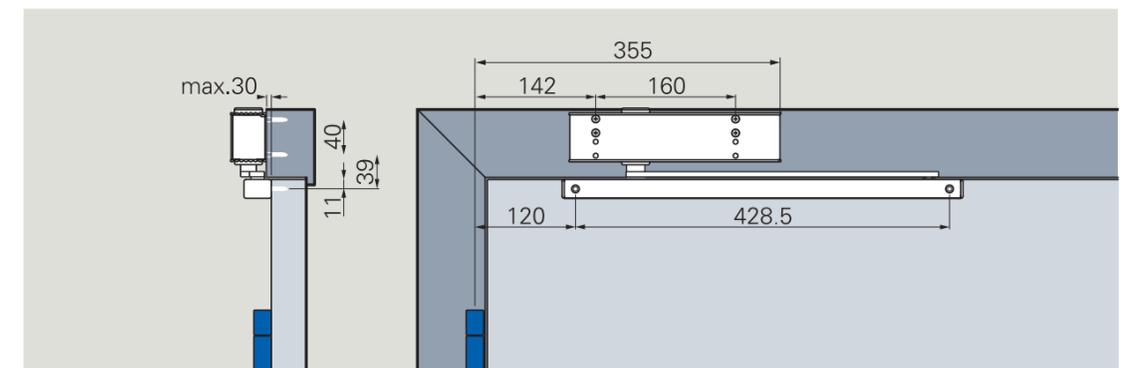
Dimensions: TS-41 with slide rail B

Hinge side TS-41

Mounting with slide rail B, illustration DIN left door, DIN right laterally reversed



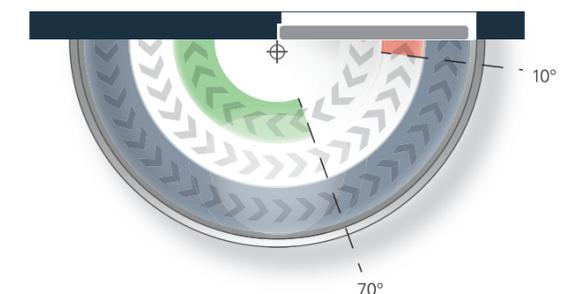
Standard mounting with slide rail B, hinge side (with optional mounting plate with DIN holes)



Head mounting with slide rail B, hinge side (with optional mounting plate with DIN holes)

- **Closing speed**
Continuously adjustable closing speed from approx. 180° to 0°.
- **Latching speed**
Increases the closing speed and thus the safe closing of the door, for example to overcome door seals, door locks and high air pressure. Continuously adjustable, works between 10° to 0°.
- **Back-check**
Reduces the opening speed starting at 70° and avoids the slamming of the door. Back-check fixed.

Closing force diagram ECO Newton TS-41, hinge side



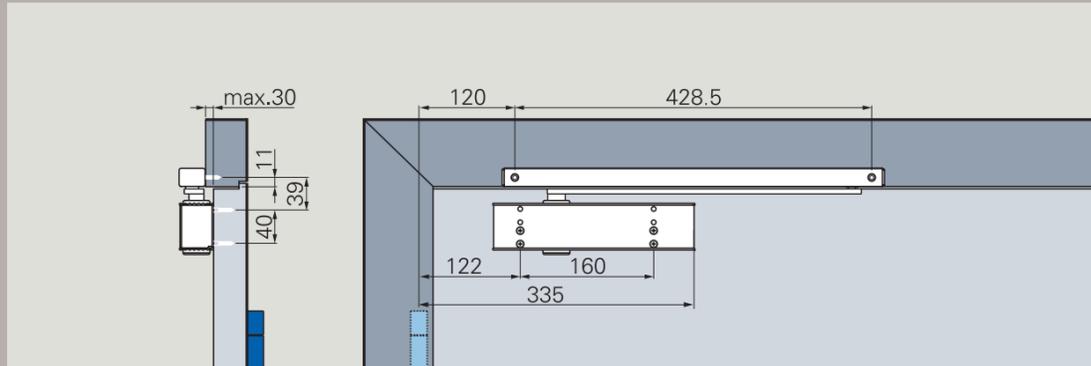
| | | |
|--|-----------------------------|----------------------------|
| | CLOSING FORCE | |
| | Continuously adjustable | min. size 1 max. size 4 |
| | Default delivery condition: | size 3 |



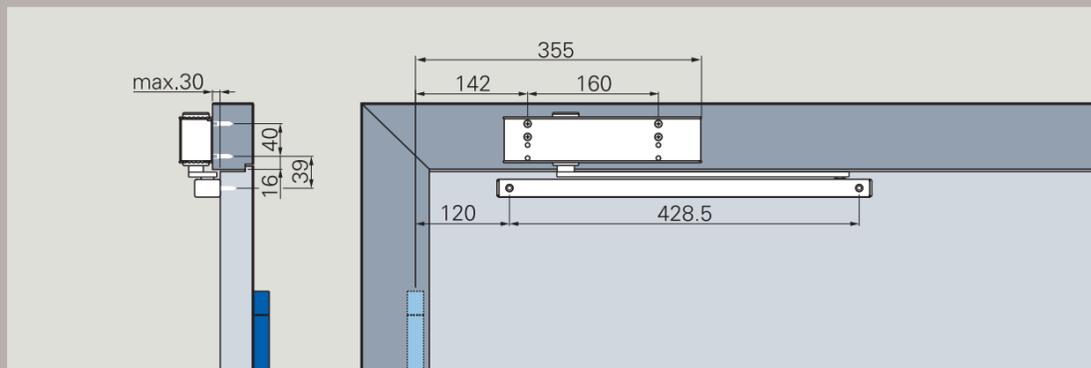
DOOR CLOSERS

Hinge-opposite side TS-41

Mounting with slide rail B, illustration DIN right -door, DIN right laterally reversed



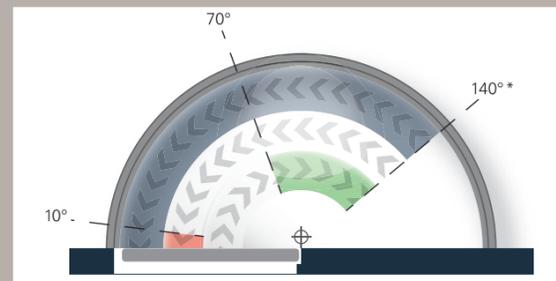
Standard mounting with slide rail B, hinge-opposite side (with optional mounting plate with DIN holes)



Head mounting with slide rail B, hinge-opposite side (with optional mounting plate with DIN holes)

- **Closing speed**
Continuously adjustable closing speed from approx. 140° to 0°.
 - **Latching speed**
Increases the closing speed and thus the safe closing of the door, for example to overcome door seals, door locks and high air pressure. Continuously adjustable, works between 10° to 0°.
 - **Back-check**
Reduces the opening speed starting at 70° and avoids the slamming of the door. Back-check fixed.
- Note: Back-check not appropriate for head-mounting/mounting on hinge-opposite side.

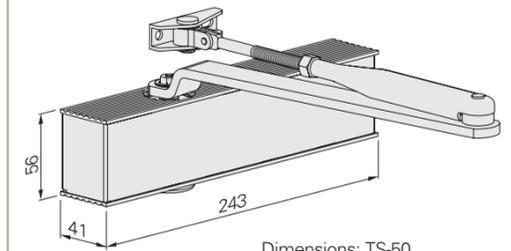
Closing force diagram ECO Newton TS-41, hinge-opposite side



*Varies according to door thickness and type of hinge.
A door stopper for opening limit is a must!

Door closer with standard arm ECO Newton TS-50

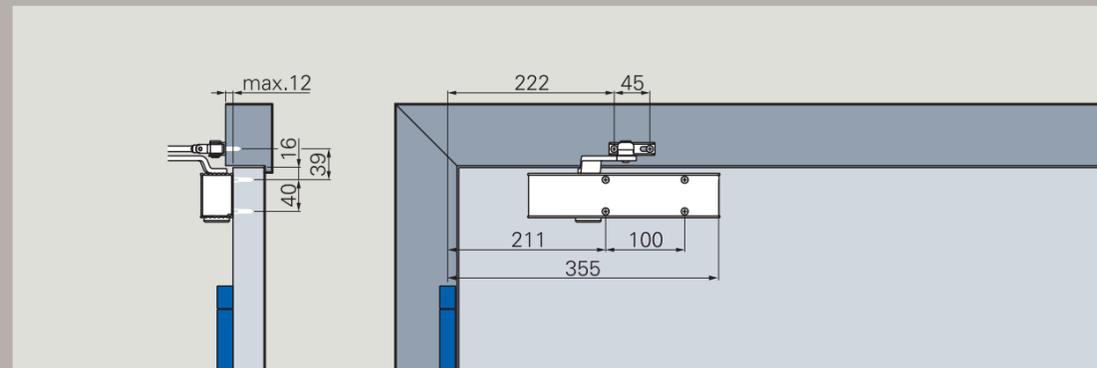
Closing force 1-5 tested according to EN 1154 A (for door widths up to 1,250mm) continuously adjustable. Latching speed and closing speed continuously adjustable. Back-check constant. Same version DIN left and DIN right. Mounting height only 41mm. Weight: 1,280g. Max. door opening angle: 180°. Mounting plate as option. Fire rated for up to 2 hours on selected cores to AS 1905.1-2005. Please consult your local Gainsborough representative prior to purchase.



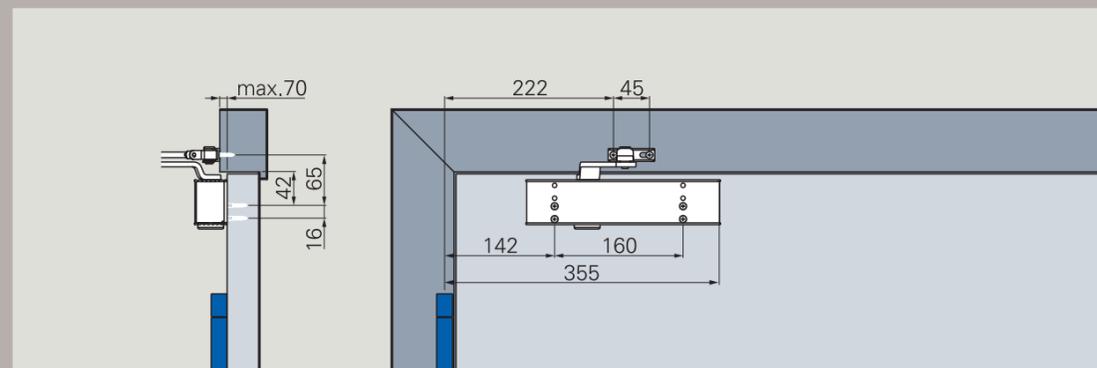
DOOR CLOSERS

Hinge side TS-50

Illustration DIN left door, DIN right laterally reversed



Standard mounting, hinge side (direct mounting, without mounting plate)



Standard mounting, hinge side (with optional mounting plate with DIN holes)

Closing speed

Continuously adjustable closing speed from approx. 180° to 0°.

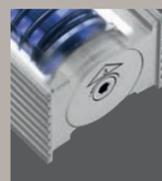
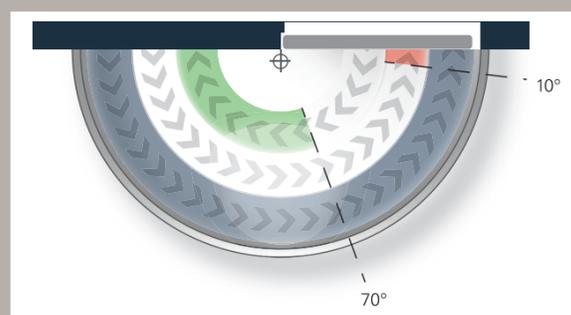
Latching speed

Increases the closing speed and thus the safe closing of the door, for example to overcome door seals, door locks and high air pressure. Continuously adjustable, works between 10° to 0°.

Back-check

Reduces the opening speed starting at 70° and avoids the slamming of the door. Back-check fixed.

Closing force diagram ECO Newton TS-50, hinge side

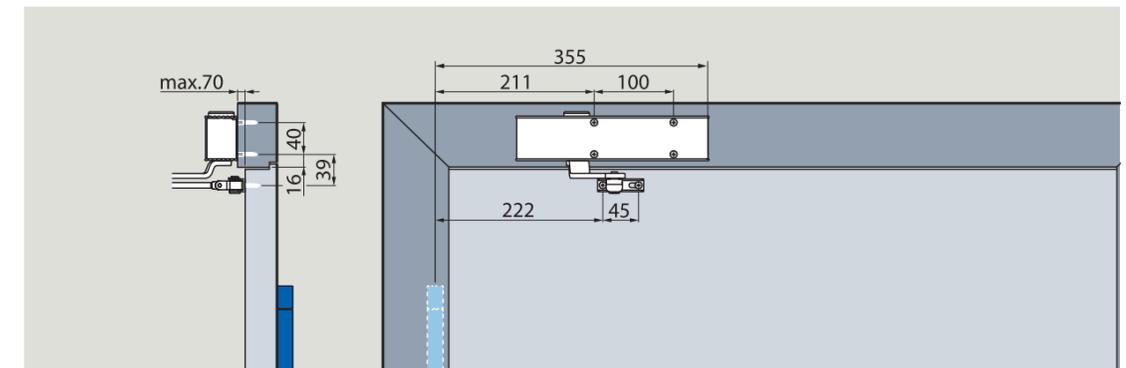


| | |
|-----------------------------|----------------------------|
| CLOSING FORCE | |
| Continuously adjustable | min. size 1 max. size 5 |
| Default delivery condition: | size 3 |

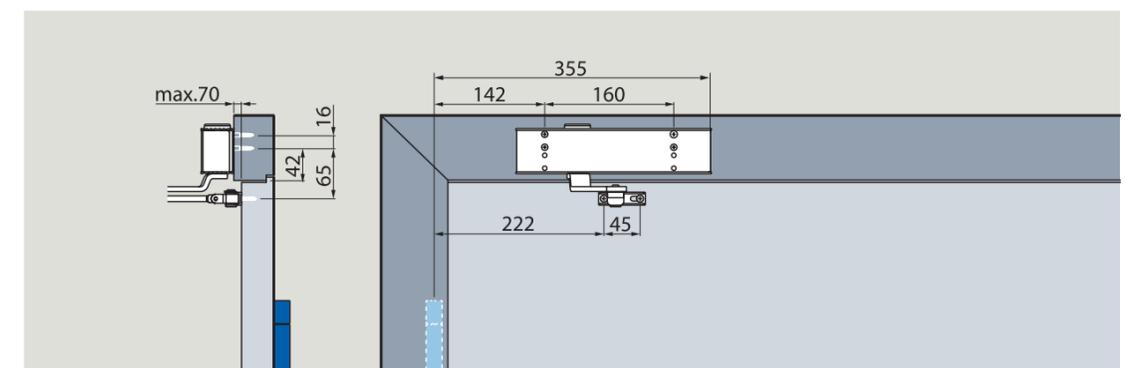


Hinge-opposite side TS-50

Illustration DIN right door, DIN left laterally reversed



Head mounting, hinge-opposite side (direct mounting, without mounting plate)



Head mounting, hinge-opposite side (with optional mounting plate with DIN holes)

Closing speed

Continuously adjustable closing speed from approx. 170° to 0°.

Latching speed

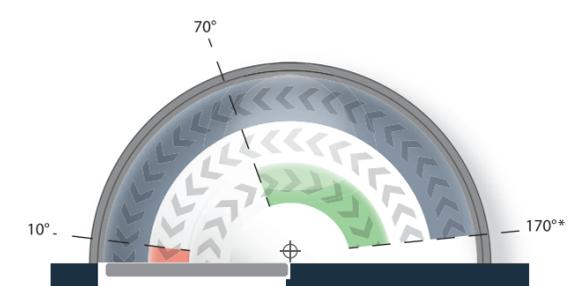
Increases the closing speed and thus the safe closing of the door, for example to overcome door seals, door locks and high air pressure. Continuously adjustable, works between 10° to 0°.

Back-check

Reduces the opening speed starting at 70° and avoids the slamming of the door. Back-check fixed.

Note: Back-check not appropriate for head-mounting/mounting on hinge-opposite side.

Closing force diagram ECO Newton TS-50, hinge-opposite side



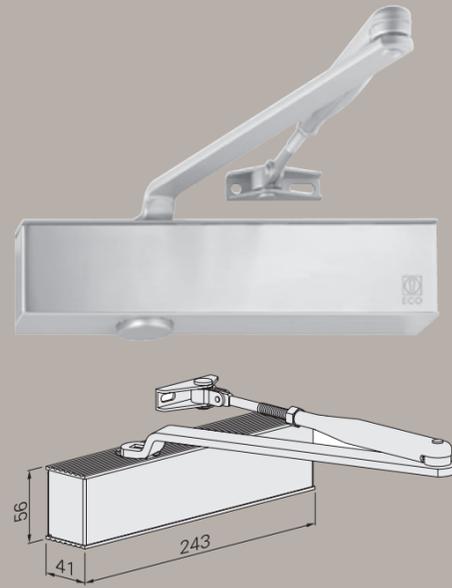
*Varies according to door thickness and type of hinge.
A door stopper for opening limit is a must!



DOOR CLOSERS

Door closer with standard arm ECO Newton TS-20

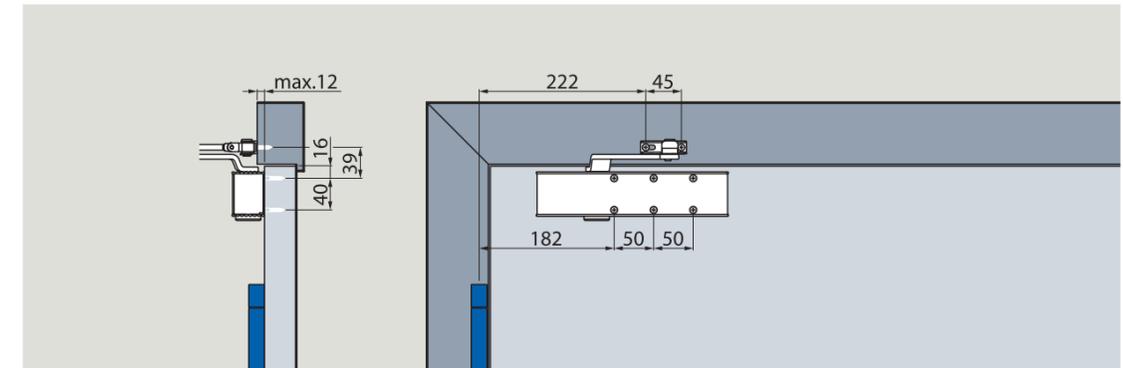
Closing force 2/3/5 tested according to EN 1154 A (for door widths up to 1,250mm) adjustable by moving the door closer. Latching speed and closing speed continuously adjustable. Back-check constant. Same version DIN left and DIN right. Mounting height only 41mm. Weight: 1,320g. Max. door opening angle: 180°. Fire rated for up to 2 hours on selected cores to AS 1905.1-2005. Please consult your local Gainsborough representative prior to purchase.



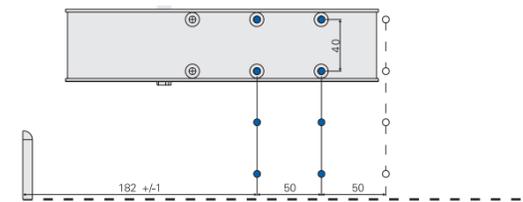
Dimensions: TS-20

Hinge side TS-20

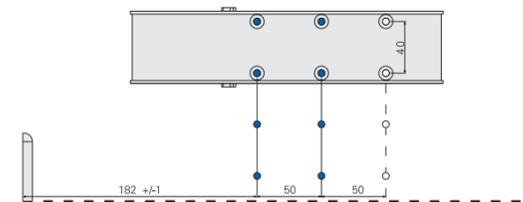
Illustration DIN left door, DIN right laterally reversed



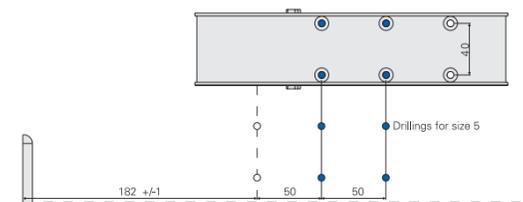
Standard mounting, hinge side (direct mounting, without mounting plate)



Closing force EN 2

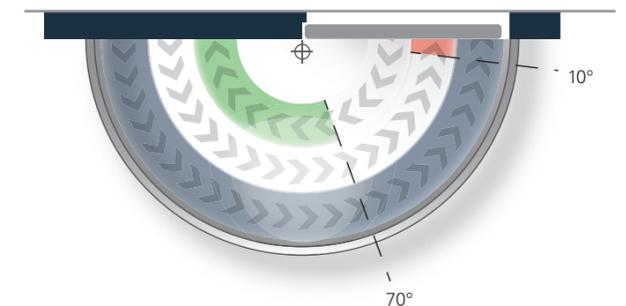


Closing force EN 3



Closing force EN 5

Closing force diagram ECO Newton TS-20, hinge side



- **Closing speed**
Continuously adjustable closing speed from approx. 180° to 0°.
- **Latching speed**
Increases the closing speed and thus the safe closing of the door, for example to overcome door seals, door locks and high air pressure. Continuously adjustable, works between 10° to 0°.
- **Back-check**
Reduces the opening speed starting at 70° and avoids the slamming of the door. Back-check fixed.

CLOSING FORCES

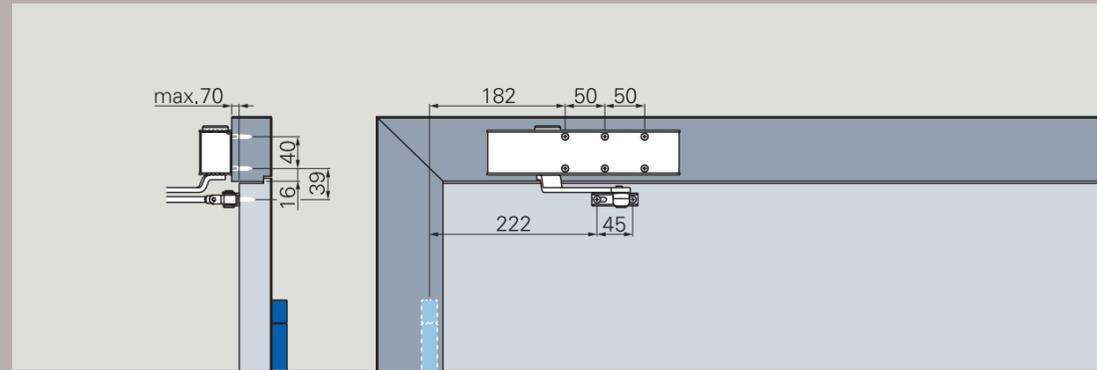
The different sizes are reached by moving the door closer on the door leaf. Additional drilling only necessary for size EN 5.



DOOR CLOSERS

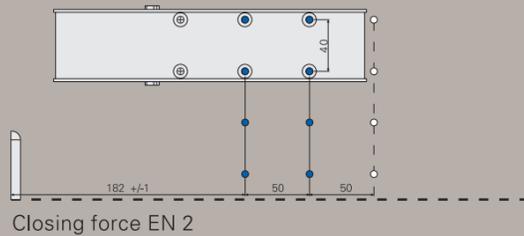
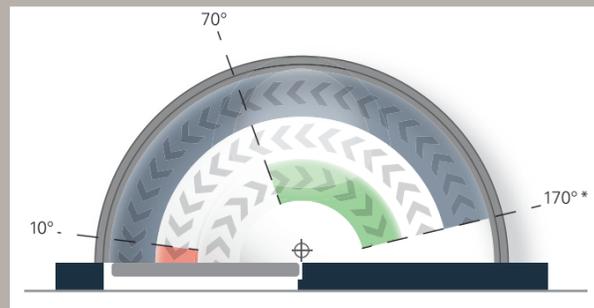
Hinge-opposite side TS-20

Illustration DIN right door, DIN left laterally reversed

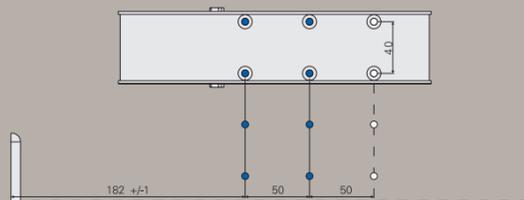


Head mounting, hinge-opposite side (direct mounting, without mounting plate)

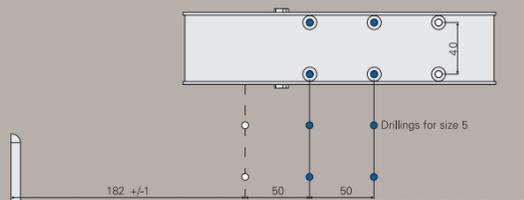
Closing force diagram ECO Newton TS-20, hinge-opposite side



Closing force EN 2



Closing force EN 3



Closing force EN 5

CLOSING FORCES

The different sizes are reached by moving the door closer on the door leaf. Additional drilling only necessary for size EN 5.



- Closing speed
Continuously adjustable closing speed from approx. 170°* to 0°.
- Latching speed
Increases the closing speed and thus the safe closing of the door, for example to overcome door seals, door locks and high air pressure. Continuously adjustable, works between 10° to 0°.
- Back-check
Reduces the opening speed starting at 70° and avoids the slamming of the door. Back-check fixed.

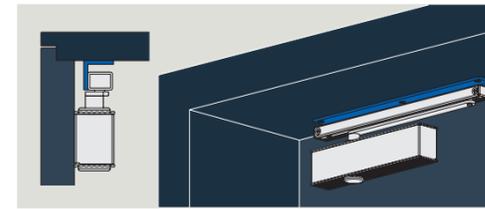
Note: Back-check not appropriate for head-mounting/mounting on hinge-opposite side.

*Varies according to door thickness and type of hinge.
A door stopper for opening limit is a must!

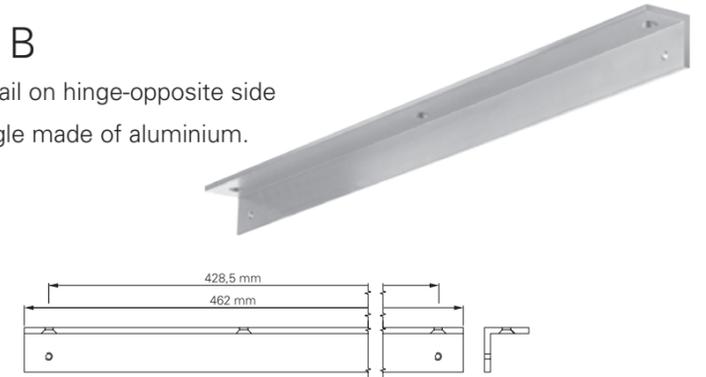
ACCESSORIES

Under-lintel angle for slide rail B

For standard mounting installation on the slide rail on hinge-opposite side for doors with deep door lintels. Under-lintel angle made of aluminium.



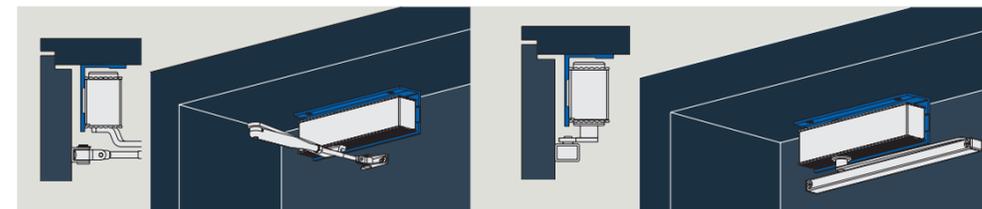
Under-lintel angle for standard mounting door closer with slide rail



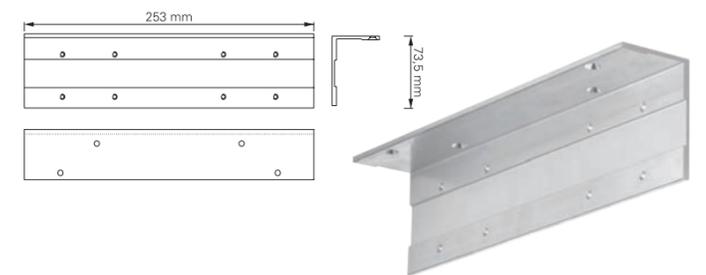
Under-lintel angle for slide rail B

Under-lintel angle for door closers with slide rail/standard arm

For head mounting of the door closer on hinge-opposite side for doors with deep door lintels. Under-lintel angle made of aluminium.



Under-lintel angle for head mounting door closer with standard arm (l.) or door closer with slide rail (r.).

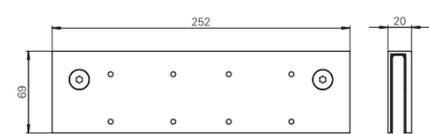


Glass clamping device for TS-41

Clamping device made of aluminium, silver coated for fixing an ECO door closer ECO Newton TS-41 onto a glass door. Suitable for 8-10mm glass (toughened safety glass). Same version DIN left and DIN right. Including threaded holes for the door closer. Aluminium F1 silver coated.



Mounting of glass clamping device



Glass clamping device ECO Newton TS-41

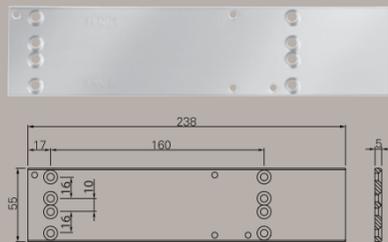


ACCESSORIES

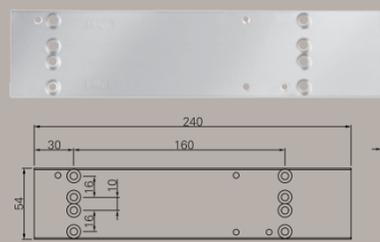
Mounting plate

The special feature of the ECO Newton assembly system is that the mounting plate is completely concealed by the aluminium body of the closer, thus making it invisible. The mounting plate has standardised drill holes which guarantee time-saving, secure and simple attachment. Same version DIN left and DIN right.

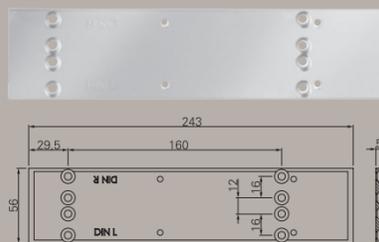
Mounting plate TS-61



Mounting plate TS-51



Mounting plate TS-41, TS-50

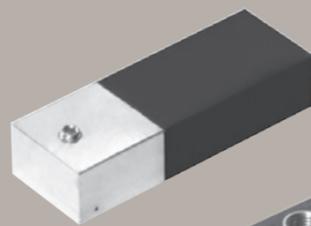


Full cover for ECO Newton TS-61, TS-51, TS-41, TS-50 & TS-20

The full cover is an optional stainless steel covering for the ECO Newton door closers and related slide rails. The overall appearance is perfected by a lever arm with a stainless steel look. A cover on the closer body is available for standard arm closers.

In rail buffer to suit guide rail B

Mechanically adjustable opening limit (MOL) for the slide rail B. The opening angle can be locked by moving the MOL in the slide rail. 30 x 20mm.



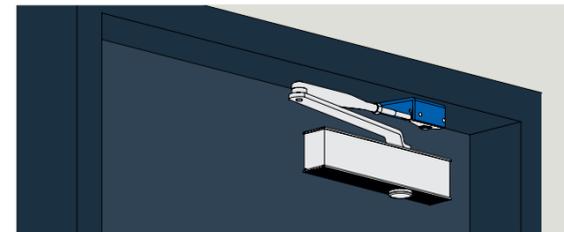
In rail mechanical hold open device to suit guide rail B

Mechanical locking device for belated assembly in slide rail B. Not permitted for use in fire protection. 30 x 21mm.



Parallel arm bracket for TS-50/TS-20

For mounting the standard arm on the hinge-opposite side on profile frame constructions as well as over-rebated wooden doors with slim steel frames.



Angle bracket parallel arm mounting door closer with standard arm

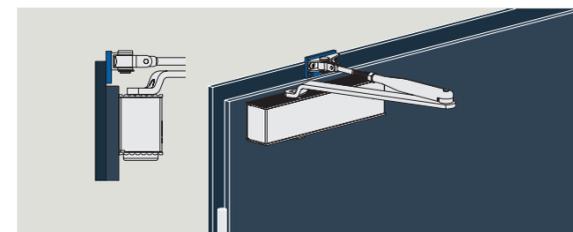
Hold open arm for TS-50/TS-20

The hold-open arm offers an additional hold-open function to fix the door. Steel zinc-plated. Hold-open angle 70° – 130°. Hold-open force adjustable. Not allowed on fire-protection doors.

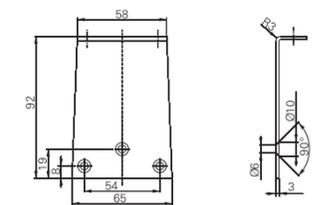


Adaptor profile for door closer with standard arm or hold open arm

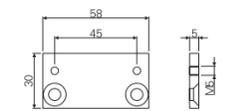
For installation of the standard or hold open arm on the pull side on profile door constructions as well as over-rebated wooden doors with slim steel frames.



Adaptor profile for standard mounting door closer with standard arm



Angle bracket for standard arm



PATCH FITTINGS



MATERIAL

Cover SUS304 stainless steel

Body Aluminium

Suitable for 10mm/12mm glass

Maximum door weight 100kg

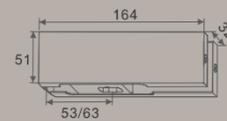
Maximum door width 1100mm

Finishes

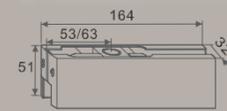
S Satin

P Polished

Snap on covers create a polished stainless steel range.



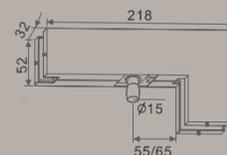
GF-0100
BOTTOM PATCH



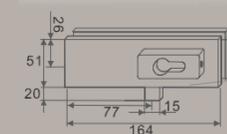
GF-0200
TOP PATCH
Also available to suit
COC GF250



GF-0300
OVERPANEL PATCH

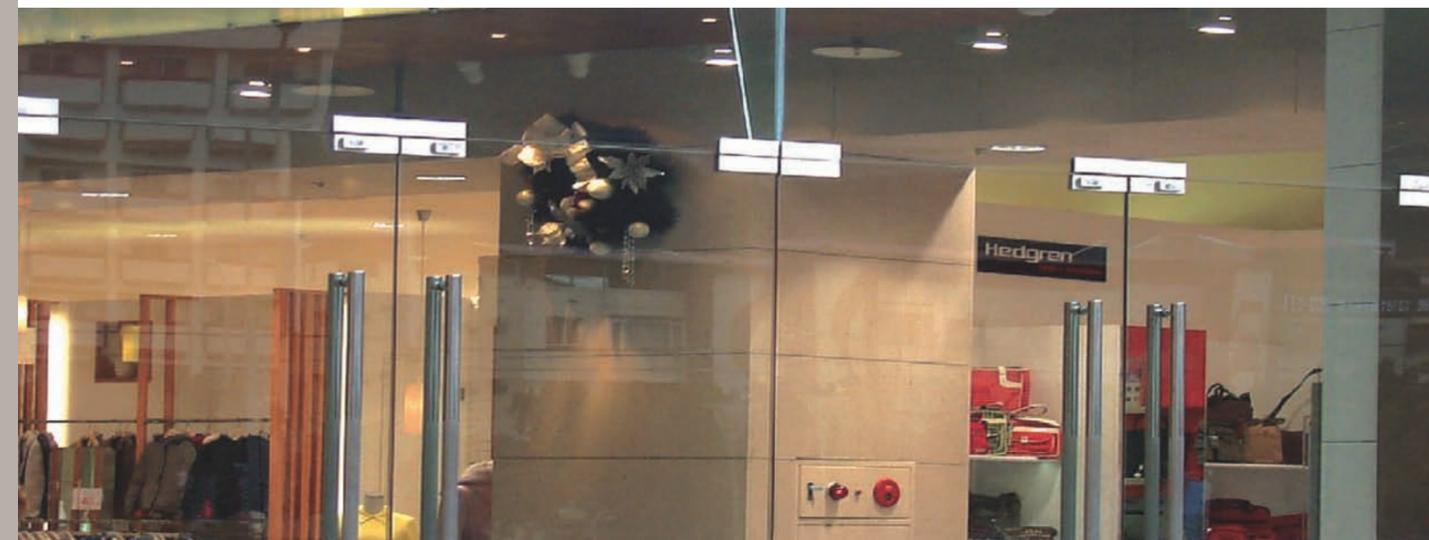
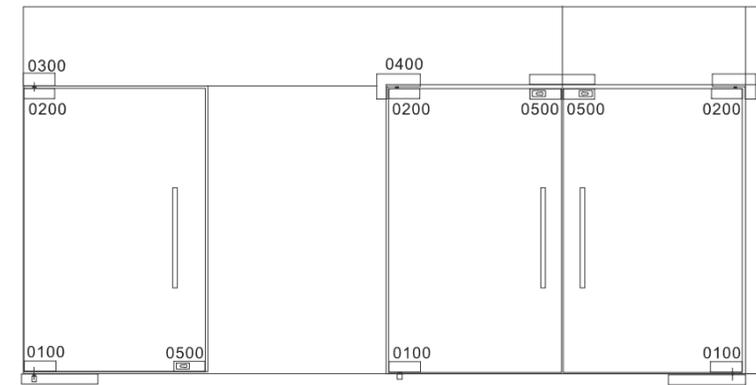


GF-0400
OVERPANEL &
SIDE PATCH



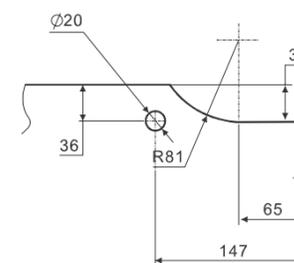
GF-0500
PATCH LOCK

PT855/CY70C45SCK cylinder can be purchased separately.

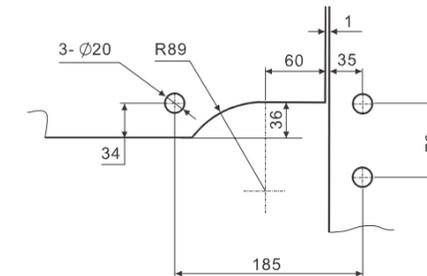


GLASS CUT-OUT

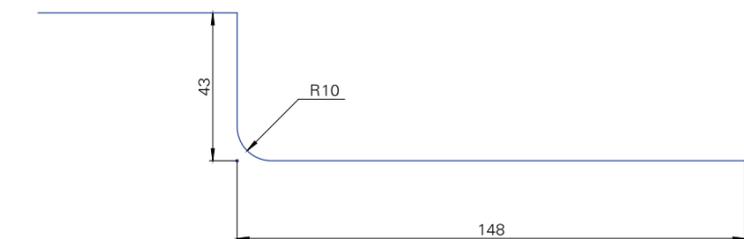
0100 | 0200 | 0300



0400



0500



ACCESSORIES

GF-0330 Door stop adaptor

Floor Bearing



FLOOR SPRINGS

German designed and precision engineered for durability. EN 1154 rated 500,000 cycles. Supplied with fully galvanised, powder coated cement box and stainless steel cover plate.



FH 840 series

| Floor spring model | EN size | Max. door width (mm) | Max. door weight (kg) | Cam-action | Angle of opening | Arm | | Adjustable functions | | Hold open | | |
|--------------------|---------|----------------------|-----------------------|------------|------------------|--------------|------------|----------------------|---------------|-------------------|------------------|-------------------|
| | | | | | | Standard arm | Offset arm | Latching | Closing speed | Without hold open | Hold open at 90° | Hold open at 105° |
| FH 842 | 2 | 850 | 120 | ✓ | 130° | ✓ | ◆ | ✓ | ✓ | ◆ | ✓ | ◆ |
| FH 843 | 3 | 950 | 120 | ✓ | 130° | ✓ | ◆ | ✓ | ✓ | ◆ | ✓ | ◆ |
| FH 844 | 4 | 1100 | 150 | ✓ | 130° | ✓ | ◆ | ✓ | ✓ | ◆ | ✓ | ◆ |

✓ Standard ◆ Optional

TRANSOM CLOSER

German designed and precision engineered. Supplied with accessory set, mounting brackets, side load arm and floor pivot. EN 1154 rated to 500,000 cycles.



RT 850 series

| Transom closer model | EN size | Max. door width (mm) | Max. door weight (kg) | Cam-action | Angle of opening | Arm | | Adjustable functions | | | Hold open | |
|----------------------|---------|----------------------|-----------------------|------------|------------------|---------------|--------------|----------------------|---------------|-------------------|------------------|-------------------|
| | | | | | | Side load arm | End load arm | Latching | Closing speed | Without hold open | Hold open at 90° | Hold open at 105° |
| RT 852 | 2 | 850 | 80 | ✓ | 130° | ✓ | ◆ | ✓ | ✓ | ✓ | ◆ | ◆ |
| RT 853 | 3 | 950 | 100 | ✓ | 130° | ✓ | ◆ | ✓ | ✓ | ✓ | ◆ | ◆ |
| RT 854 | 4 | 1100 | 120 | ✓ | 130° | ✓ | ◆ | ✓ | ✓ | ✓ | ◆ | ◆ |

✓ Standard ◆ Optional

FH 840 series EXTENDED SPINDLE INSERTS



FH 840 SERIES ACCESSORIES



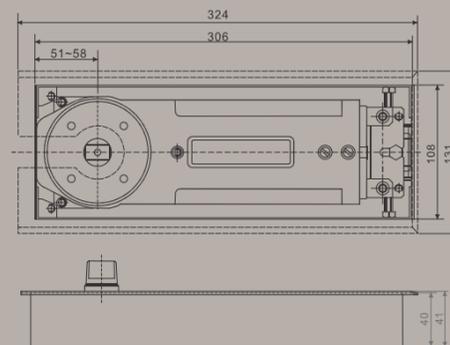
FH 840 series OFFSET PIVOT



PIVOT SET WITH LATERAL ADJUSTMENT 100kg 300kg



EXTENDED PIVOT SET 120kg



RT 850 series ACCESSORIES



SWING DOOR SYSTEM



SW ROUND AND SQUARE SERIES

A minimalist approach to pivoting doors -
 SUS316 solid stainless steel
 Suitable for 10mm and 12mm tempered glass
 Max door weight 120kg
 Double point fixing

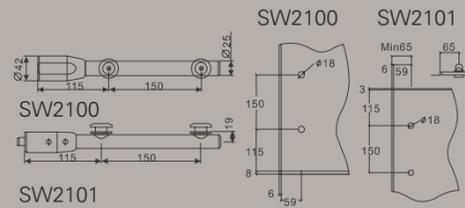
SW ROUND SERIES



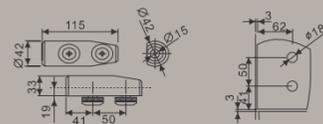
SW2100



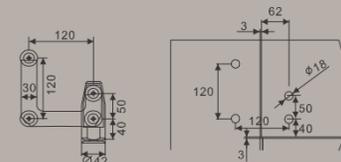
SW2101



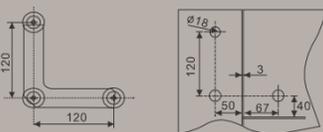
SW1100



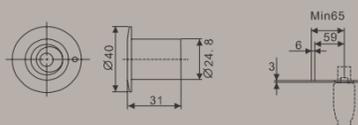
SW1101



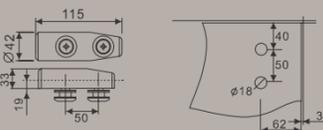
SW3S00



SW4S00



SW1102



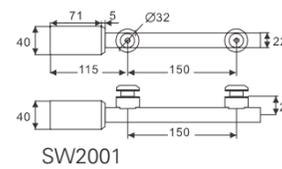
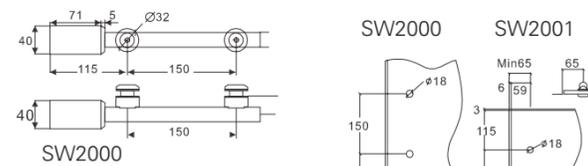
SW SQUARE SERIES



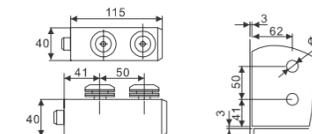
SW2000



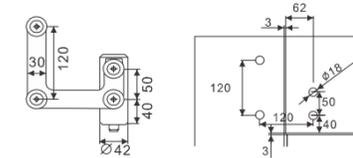
SW2001



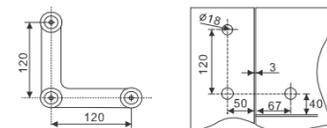
SW1000



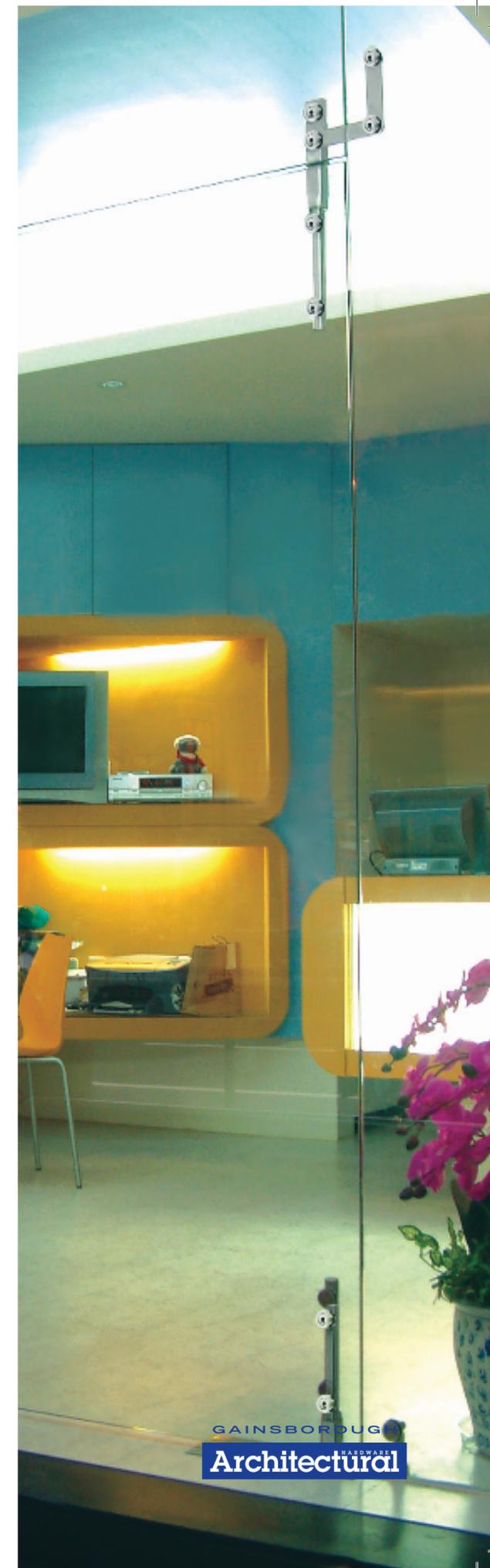
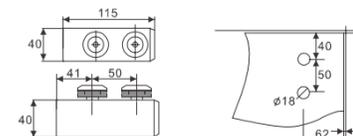
SW1001



SW3S00



SW1002



GAINSBOROUGH
Architectural



PULL HANDLES



PH SERIES

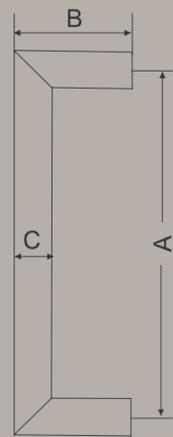
SUS316 stainless steel

Available as back to back or single, face fix sets

Finishes

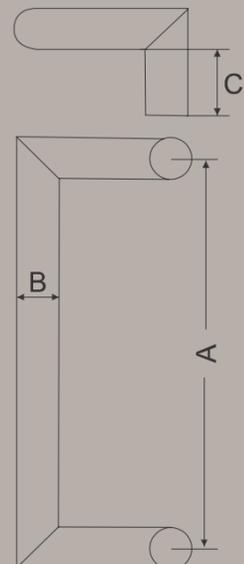
S Satin

P Polished



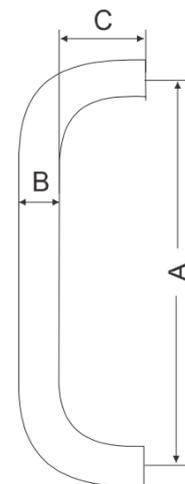
80JL32216002 Glass cutting Ø12

| TYPE | A | B | C |
|------|-----|----|-----|
| 1 | 450 | 75 | Ø32 |
| 3 | 600 | 75 | Ø32 |



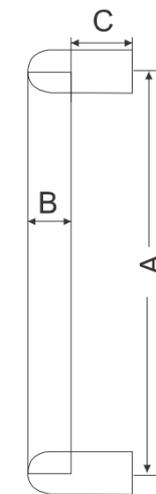
80JL41116002 Glass cutting Ø12

| TYPE | A | B | C |
|------|-----|-----|----|
| 1 | 450 | Ø32 | 53 |
| 2 | 600 | Ø32 | 53 |
| 3 | 900 | Ø32 | 53 |



80JL21116002 Glass cutting Ø12

| TYPE | A | B | C |
|------|-----|-----|----|
| 2 | 300 | Ø32 | 53 |
| 3 | 600 | Ø32 | 53 |
| | 900 | Ø32 | 53 |



80JL11A16002 Glass cutting Ø12

| TYPE | A | B | C |
|------|-----|-----|----|
| 1 | 300 | Ø32 | 53 |
| 2 | 450 | Ø32 | 53 |
| 2 | 600 | Ø32 | 53 |



GLASS CONNECTOR

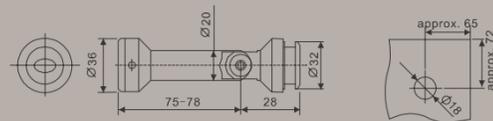


GF 1 SERIES

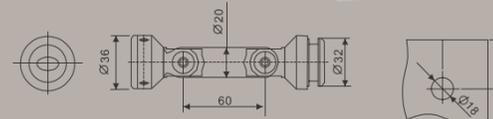
SUS316 solid stainless steel

Suitable for 10mm or 12mm tempered glass

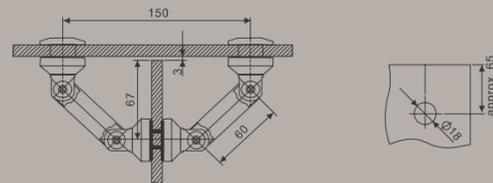
Fixing base: 36mm with 180° / 360° adjustment



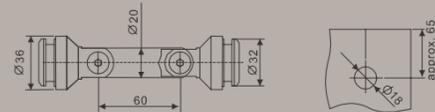
GF 1WS0
Ceiling/Floor - Glass Connector



GF 1WY0
Flexible Glass - Wall Connector



GF 1GX0
Flexible T Glass - Glass Connector



GF 1GZ0
Flexible Glass - Glass Connector

DOOR CLOSERS



Door closers with slide rail

| | Article Number | Size | Finish |
|--|-----------------|------|--------|
| ECO Newton TS-61 (hinge side) with delayed action (DA) | T61B3D1UCS10008 | 2-5 | Silver |
| | T61B3E1UCS10008 | 5-6 | Silver |

| | | | |
|---|-----------------|-----|--------|
| ECO Newton TS-61 (hinge opposite side) with delayed action (DA) | T61G3D1UCS10008 | 2-5 | Silver |
| | T61G3E1UCS10008 | 5-6 | Silver |

| | | | |
|--|-----------------|-----|--------|
| ECO Newton TS-51 (hinge side) | T51B2B1UCS10008 | 1-4 | Silver |
| ECO Newton TS-51 (hinge opposite side) | T51G2B1UCS10008 | 1-4 | Silver |
| ECO Newton TS-41 | T41B2B1UCS20008 | 1-4 | Silver |

Door closers with standard arm

| | | | |
|----------------------------|-----------------|-------|--------|
| ECO Newton TS-50 | T50B2K1UCA20008 | 1-5 | Silver |
| ECO Newton TS-50 body only | 9T50B2K11105H | 1-5 | Silver |
| ECO Newton TS-20 | T20B2G1UCA20008 | 2/3/5 | Silver |
| ECO Newton TS-20 body only | 9T20B2G11105H | 2/3/5 | Silver |

Accessories

| | | |
|--|-----------------|--------------------|
| Under-lintel angle for ECO Newton TS-61 | 350310E00A00000 | Anodised Aluminium |
| Under-lintel angle for ECO Newton TS-51 | 350320E00A00000 | Anodised Aluminium |
| Under-lintel angle for ECO Newton TS-41, TS-50 and TS-20 | 300330E00A00000 | Anodised Aluminium |
| Under-lintel angle for slide rail B | 350300J00A00000 | Anodised Aluminium |

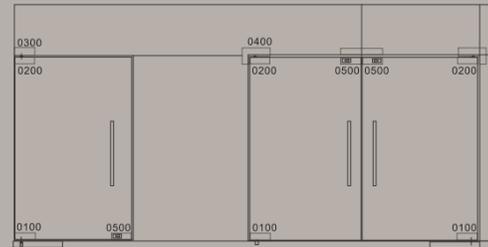
| | | |
|--|-----------------|--------------------|
| Glass clamping device for ECO Newton TS-41 | 350310600A00000 | Anodised Aluminium |
|--|-----------------|--------------------|

| | | |
|--|------------|--------------------|
| Mounting plate for ECO Newton TS-61 | 9T615022L0 | Anodised Aluminium |
| Mounting plate for ECO Newton TS-51 | 9T515022L0 | Anodised Aluminium |
| Mounting plate for ECO Newton TS-41, TS-50 and TS-20 | 9T31502LA | Anodised Aluminium |

| | | |
|-------------------------------------|-----------------|-----|
| Full cover to suit TS-61 body | 350400052Q00002 | PSS |
| | 350400052Q00001 | SSS |
| Full cover to suit TS-50/TS-20 body | 350400054Q00002 | PSS |
| | 350400054Q00001 | SSS |

| | | |
|---|-----------------|--|
| In rail mechanical hold open device to suit guide rail B | 350100000056200 | |
| In rail buffer for TS-61/TS-51/TS-41 to suit guide rail B | 350100000054000 | |

| | | |
|--|-----------------|--------|
| Parallel arm bracket to suit TS-50/TS-20 | 350300B00A00000 | Silver |
| Hold open arm for TS-50/TS-20 | 9A401003P | Silver |
| Adaptor profile for standard arm and arm with hold open device | 300300A00000000 | Silver |



PATCH FITTINGS

ECO-Schulte patch fittings are supplied with gasket to suit 12mm glass as standard. Gaskets to suit 10mm glass are available on request. Maximum recommended door leaf weight 100kg and maximum leaf width 1100mm.

| ECO GF-0100 | Article number | Description | Size | Surface |
|-------------------------------------|-----------------|---|------|---------|
| GF-0100 S | 80JP11004663886 | Bottom patch | 12mm | SSS |
| ECO GF-0200 | | | | |
| GF-0200 S | 80JP12004663886 | Top patch | 12mm | SSS |
| GF-0250 S | 80JP06004663886 | Top patch to suit COC | 12mm | SSS |
| ECO GF-0300 | | | | |
| GF-0300 S | 80JP13004663886 | Over panel patch with 15mm pivot | 12mm | SSS |
| GF-0330 ADT | 80JA0043 | Door stop adaptor | 12mm | SSS |
| ECO GF-0400 | | | | |
| GF-0400 S | 80JP14004663882 | Over panel / side light patch | 12mm | SSS |
| ECO GF-0500 | | | | |
| GF-0500 S | 80JP15004663882 | Patch lock | 12mm | SSS |
| Polished patch fitting cover | | | | |
| GF-0100 | 80JP01504700882 | Patch fitting cover for GF-0100 | | PSS |
| GF-0200 | 80JP02504700882 | Patch fitting cover for GF-0200/GF-0250 | | PSS |
| GF-0300 | 80JP03504700882 | Patch fitting cover for GF-0300 | | PSS |
| GF-0400 | 80JP04504700882 | Patch fitting cover for GF-0400 | | PSS |
| GF-0500 | 80JP05504700882 | Patch fitting cover for GF0500 | | PSS |

SSS = Stainless Steel
PSS = Polished Stainless Steel



GF-0100
BOTTOM PATCH



GF-0200
TOP PATCH



GF-0300
OVERPANEL PATCH



GF-0400
OVERPANEL & SIDE PATCH



GF-0500
PATCH LOCK



FLOOR SPRINGS

For metal and timber, single action doors and double swing doors. Includes stainless steel cover plate and cement case.

| ECO Floor Spring | Article Number | EN size | Door Width | Door Weight |
|--|-----------------|----------------------------------|------------|-------------|
| FH 842 including cement box and SSS cover, without accessory set | | | | |
| Non Hold Open (NHO) | 80JF42232200105 | 2 | 850mm | 120 kg |
| 90° Hold open | 80JF42232202105 | 2 | 850mm | 120 kg |
| 105° Hold open | 80JF42232201105 | 2 | 850mm | 120 kg |
| FH 843 including cement box and SSS cover, without accessory set | | | | |
| Non Hold Open (NHO) | 80JF43232200105 | 3 | 950mm | 120 kg |
| 90° Hold open | 80JF43232202105 | 3 | 950mm | 120 kg |
| 105° Hold open | 80JF43232201105 | 3 | 950mm | 120 kg |
| FH 844 including cement box and SSS cover, without accessory set | | | | |
| Non Hold Open (NHO) | 80JF44232200105 | 4 | 1100mm | 150 kg |
| 90° Hold open | 80JF44232202105 | 4 | 1100mm | 150 kg |
| 105° Hold open | 80JF44232201105 | 4 | 1100mm | 150 kg |
| Accessory set | 80JF43000003002 | top pivot (2 part), bottom strap | | |

ACCESSORIES

Floor spring spindle inserts

| | | |
|------------------|----------|----|
| extended by 5mm | 80JA0026 | 5 |
| extended by 10mm | 80JA0027 | 10 |
| extended by 15mm | 80JA0028 | 15 |
| extended by 20mm | 80JA0029 | 20 |
| extended by 25mm | 80JA0030 | 25 |
| extended by 30mm | 80JA0031 | 30 |
| extended by 35mm | 80JA0032 | 35 |
| extended by 40mm | 80JA0033 | 40 |
| extended by 45mm | 80JA0034 | 45 |
| extended by 50mm | 80JA0035 | 50 |

Floor pivot with standard spindle 80JA0036 silver
Floor pivot cover plate 80JA0037 satin stainless steel

Offset pivot for single action doors with SSS universally handed covers 80JA0038

Pivot set with lateral adjustment

| | |
|--------------------------|-----------------|
| 100kg | 80JA00724300012 |
| 300kg | 80JA00734300012 |
| Extended pivot set 120kg | 80JA00744300012 |

TRANSOM CLOSER

Transom mount door closer complete with accessories for double action doors.

| ECO Transom Closer | Article Number | EN size | Door Width | Door Weight |
|---------------------------|-----------------|---------|------------|-------------|
| RT 852 with accessory set | | | | |
| Non hold open | 80JF52272230105 | 2 | 850mm | 80kg |
| 90° Hold open | 80JF52272232105 | 2 | 850mm | 80kg |
| 105° Hold open | 80JF52272231105 | 2 | 850mm | 80kg |
| RT 853 with accessory set | | | | |
| Non hold open | 80JF53222230105 | 3 | 950mm | 100kg |
| 90° Hold open | 80JF53222232105 | 3 | 950mm | 100kg |
| 105° Hold open | 80JF53222231105 | 3 | 950mm | 100kg |
| RT 854 with accessory set | | | | |
| Non hold open | 80JF54242230105 | 4 | 1100mm | 120kg |
| 90° Hold open | 80JF54242232105 | 4 | 1100mm | 120kg |
| 105° Hold open | 80JF54242231105 | 4 | 1100mm | 120kg |



GLASS CONNECTOR SYSTEM

| Description | Article Number | Finish |
|--------------------|-----------------|--------|
| GF1WS0 10mm Glass | 80JC1WS04663015 | SSS |
| | 80JC1WS04763015 | PSS |
| GF1WS0 12mm Glass | 80JC1WS04664015 | SSS |
| | 80JC1WS04764015 | PSS |
| GF1WY0 10mm Glass | 80JC1WY04663015 | SSS |
| | 80JC1WY04763015 | PSS |
| GF1WY0 12mm Glass | 80JC1WY04664015 | SSS |
| | 80JC1WY04764015 | PSS |
| GF1GZ0 10 mm Glass | 80JC1GZ04663015 | SSS |
| | 80JC1GZ04763015 | PSS |
| GF1GZ0 12 mm Glass | 80JC1GZ04664015 | SSS |
| | 80JC1GZ04764015 | PSS |
| GF1GX0 10 mm Glass | 80JC1GX04663015 | SSS |
| | 80JC1GX04763015 | PSS |
| GF1GX0 12mm Glass | 80JC1GX04664015 | SSS |
| | 80JC1GX04764015 | PSS |

SSS = Stainless Steel
PSS = Polished Stainless Steel



SWING DOOR SYSTEM

| ROUND SERIES | Article Number | Finish |
|--------------|-----------------|--------|
| SW2100 | 80JW21004664015 | SSS |
| SW2101 | 80JW21014664015 | SSS |
| SW1100 | 80JW11004664015 | SSS |
| SW1101 | 80JW11014664015 | SSS |
| SW3S00 | 80JW3S004664015 | SSS |
| SW4S00 | 80JW4S004664015 | SSS |
| SW1102 | 80JW11024664015 | SSS |
| | | |
| SW2100 | 80JW21004764015 | PSS |
| SW2101 | 80JW21014764015 | PSS |
| SW1100 | 80JW11004764015 | PSS |
| SW1101 | 80JW11014764015 | PSS |
| SW3S00 | 80JW3S004764015 | PSS |
| SW4S00 | 80JW4S004764015 | PSS |
| SW1102 | 80JW11024764015 | PSS |

| SQUARE SERIES | Article Number | Finish |
|---------------|-----------------|--------|
| SW2000 | 80JW20004664015 | SSS |
| SW2001 | 80JW20014664015 | SSS |
| SW1000 | 80JW10004664015 | SSS |
| SW1001 | 80JW10014664015 | SSS |
| SW1002 | 80JW10024664015 | SSS |
| | | |
| SW2000 | 80JW20004764015 | PSS |
| SW2001 | 80JW20014764015 | PSS |
| SW1000 | 80JW10004764015 | PSS |
| SW1001 | 80JW10014764015 | PSS |
| SW1002 | 80JW10024764015 | PSS |

SSS = Stainless Steel
PSS = Polished Stainless Steel



PULL HANDLES

ECO-Schulte pull handles are produced from 316 grade stainless steel. Available as either single side or back to back fixing. Available finishes are satin stainless steel or polished stainless steel.

| ECO PHD-110 | Article Number | Size | Finish |
|--------------------------|-----------------|----------|--------|
| Single fix pull handle | 80JL21A14600012 | 300x32mm | SSS |
| Single fix pull handle | 80JL21A14700012 | 300x32mm | PSS |
| | | | |
| Back to back pull handle | 80JL21114600012 | 300x32mm | SSS |
| Back to back pull handle | 80JL21114700012 | 300x32mm | PSS |
| | | | |
| Single fix pull handle | 80JL22A14600012 | 600x32mm | SSS |
| Single fix pull handle | 80JL22A14700012 | 600x32mm | PSS |
| | | | |
| Back to back pull handle | 80JL22114600012 | 600x32mm | SSS |
| Back to back pull handle | 80JL22114700012 | 600x32mm | PSS |
| | | | |
| Single fix pull handle | 80JL25A14600012 | 900x32mm | SSS |
| Single fix pull handle | 80JL25A14700012 | 900x32mm | PSS |
| | | | |
| Back to back pull handle | 80JL25114600012 | 900x32mm | SSS |
| Back to back pull handle | 80JL25114700012 | 900x32mm | PSS |

| ECO PHD-115 | Article Number | Size | Finish |
|--------------------------|-----------------|----------|--------|
| Single fix pull handle | 80JL11A14600012 | 300x32mm | SSS |
| Single fix pull handle | 80JL11A14700012 | 300x32mm | PSS |
| | | | |
| Back to back pull handle | 80JL11114600012 | 300x32mm | SSS |
| Back to back pull handle | 80JL11114700012 | 300x32mm | PSS |
| | | | |
| Single fix pull handle | 80JL12A14600012 | 450x32mm | SSS |
| Single fix pull handle | 80JL12A14700012 | 450x32mm | PSS |
| | | | |
| Back to back pull handle | 80JL12114600012 | 450x32mm | SSS |
| Back to back pull handle | 80JL12114700012 | 450x32mm | PSS |
| | | | |
| Single fix pull handle | 80JL13A14600012 | 600x32mm | SSS |
| Single fix pull handle | 80JL13A14700012 | 600x32mm | PSS |
| | | | |
| Back to back pull handle | 80JL13114600012 | 600x32mm | SSS |
| Back to back pull handle | 80JL13114700012 | 600x32mm | PSS |

SSS = Stainless Steel
PSS = Polished Stainless Steel



PULL HANDLES

| ECO PHD-310 | Article Number | Size | Finish |
|--------------------------|-----------------|----------|--------|
| Single fix pull handle | 80JL32B14600012 | 450x32mm | SSS |
| Single fix pull handle | 80JL32B14700012 | 450x32mm | PSS |
| Back to back pull handle | 80JL32214600012 | 450x32mm | SSS |
| Back to back pull handle | 80JL32214700012 | 450x32mm | PSS |
| Single fix pull handle | 80JL33B14600012 | 600x32mm | SSS |
| Single fix pull handle | 80JL33B14700012 | 600x32mm | PSS |
| Back to back pull handle | 80JL33214600012 | 600x32mm | SSS |
| Back to back pull handle | 80JL33214700012 | 600x32mm | PSS |

| ECO PHD-315 | Article Number | Size | Finish |
|--------------------------|-----------------|----------|--------|
| Single fix pull handle | 80JL41A14600012 | 300x32mm | SSS |
| Single fix pull handle | 80JL41A14700012 | 300x32mm | PSS |
| Back to back pull handle | 80JL41114600012 | 300x32mm | SSS |
| Back to back pull handle | 80JL41114700012 | 300x32mm | PSS |
| Single fix pull handle | 80JL42A14600012 | 450x32mm | SSS |
| Single fix pull handle | 80JL42A14700012 | 450x32mm | PSS |
| Back to back pull handle | 80JL42114600012 | 450x32mm | SSS |
| Back to back pull handle | 80JL42114700012 | 450x32mm | PSS |
| Single fix pull handle | 80JL43A14600012 | 600x32mm | SSS |
| Single fix pull handle | 80JL43A14700012 | 600x32mm | PSS |
| Back to back pull handle | 80JL43114600012 | 600x32mm | SSS |
| Back to back pull handle | 80JL43114700012 | 600x32mm | PSS |
| Single fix pull handle | 80JL45A14600012 | 900x32mm | SSS |
| Single fix pull handle | 80JL45A14700012 | 900x32mm | PSS |
| Back to back pull handle | 80JL45114600012 | 900x32mm | SSS |
| Back to back pull handle | 80JL45114700012 | 900x32mm | PSS |

SSS = Stainless Steel
PSS = Polished Stainless Steel





ECO

GAINSBOROUGH

Architectural HARDWARE

HEAD OFFICE 31-33 Alfred Street (PO Box 330)
Blackburn Victoria 3130 Australia
Telephone (03) 9877 1555 Facsimile (03) 9894 1599

NEW SOUTH WALES
45 Sammut Street
SMITHFIELD NSW 2164
Tel: (02) 9725 1033
Fax: (02) 7525 1115

SOUTH AUSTRALIA
32 Jacobsen Crescent
HOLDEN HILL SA 5088
Tel: (08) 8261 9633
Fax: (08) 8266 4712

VICTORIA & TASMANIA
31-33 Alfred Street
BLACKBURN VIC 3130
Tel: Melb (03) 9877 1555
Fax: Melb (03) 9894 1599

QUEENSLAND
241 Elliott Road
BANYO QLD 4014
Tel: (07) 3260 9000
Fax: (07) 3260 9055

WESTERN AUSTRALIA
48 Luisini Road
WANGARA WA 6065
Tel: (08) 9408 4400
Fax: (08) 9309 2777



GWA
Door & Access Systems