



Floor Springs

**DORMA**

**BTS 75 V**

**BTS 80**

**BTS 84**

## Quality assurance for DORMA floor springs



Data and features		BTS 75V	BTS 80		BTS 84	
Spring strength			EN 3	EN 4	EN 6	EN 3
Spring strength adjustment		EN 1-4				
Standard and external doors <sup>1)</sup>	≤ 950 mm ≤ 1100 mm ≥ 1400 mm	● ● ●	● – –	– ● –	– – ●	● – –
Fire and smoke check doors <sup>2)</sup>		–	–	–	–	–
Non-handed, suitable for single and double action doors		●	●	●	●	–
Closing speed adjustable by valve		●	●	●	●	●
Backcheck, mechanical		●	●	●	●	–
Hold-open, hydraulically adjustable		–	●	●	●	–
Constant hold-open at a door angle of	90°	○	–	–	–	○
	105°	○	–	–	–	○
Delayed action adjustable by valve (selectable alternative to the hold-open feature)		–	●	●	●	–
Weight in kg		3,0	7,1	7,1	7,1	5,0
Dimensions in mm	Length	285	341	341	341	306
	Width	82	78	78	78	108
	Height	50	60	60	60	40
Floor spring tested to EN 1154		●	●	●	●	●

<sup>1)</sup> For applications involving particularly high or heavy loads, and doors which have to close against wind or draught conditions, the next highest spring strength should be selected.

<sup>2)</sup> For floor springs for fire and smoke check doors, see special brochure.

● yes – no ○ option

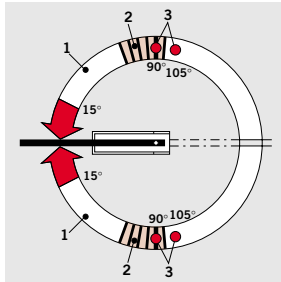
### Floor spring

### DORMA BTS 75 V

#### With adjustable spring strength.

Whether standard, narrow or wide, whether LH, RH or double action – with the DORMA BTS 75 V, the right spring strength can be obtained by simply turning the integral adjustment screw. Designed and built

for robustness, the DORMA BTS 75 V is suitable for all doors up to a weight of 120 kg and a width up to 1100 mm. Its range of functions ensures high user benefit, convenience and safety.



- 1 Fully controlled closing with adjustable speed in the ranges 175° – 15° and 15° – 0°.
- 2 Mechanical backcheck.
- 3 Fixed hold-open at 90° or 105°.



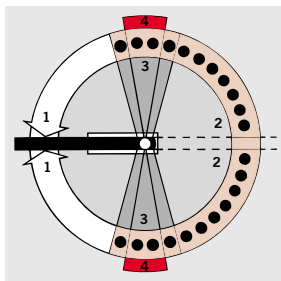
### Floor spring

### DORMA BTS 80

#### With many extras as standard.

The DORMA BTS 80 is suitable for virtually any size and design of door and offers features which owe their effectiveness to extensive know-how in the development, design and

manufacture of such units. Thanks to a wide range of functions which can be individually selected to suit different conditions and requirements, this floor spring offers maximum reliability and quality.



- 1 Fully controlled closing with adjustable speed.
- 2 Hold-open range or delayed action range (approx. 75° to 180°).
- 3 Adjustment range – point at which hold-open begins, or end of delayed action range (approx. 75° to 105°).
- 4 Mechanical backcheck (from approx. 80°).



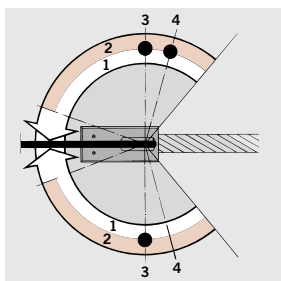
### Floor spring

### DORMA BTS 84

#### The “economical” solution for double action doors.

Specifically tailored to the requirements of floor springs for double action doors, the DORMA BTS 84 also impresses by its low-height design and the ease of installation that this brings.

With two closing ranges available for adjustment and the resulting flexibility of the floor spring's function, the BTS 84 is able to meet virtually any set of requirements. Its ever-constant reliability and functional efficiency are further enhanced by a comprehensive quality assurance programme.



- 1 First adjustable closing range (130° – 0°).
- 2 Second adjustable closing range (130° – approx. 20°).
- 3 Fixed hold-open at 90° (optional extra).
- 4 Fixed hold-open at 105° (optional extra).



## DORMA BTS 75 V

### Specification text

Universal floor spring with adjustable closing force, tested and approved to EN 1154, size 1 – 4, corrosion class 4, non-handed unit suitable for LH, RH and double action doors, with closing action operational from approx. 175°. Featuring hydraulically fully controlled closing cycle, adjustable closing speed with two independent valves, and mechanical backcheck. Cover plate secured to floor spring body.

### Special models

- Fixed hold-open at 90°
- Fixed hold-open at 105°

### Accessories

- Spindle
  - standard
  - ... mm extension
  - special design...
- Universal cover plate, 1.5 mm thick
  - stainless steel
  - satin brass
- Sealing compound


### Make DORMA BTS 75 V

- BTS75V
- BTS75V/90
- BTS75V/105

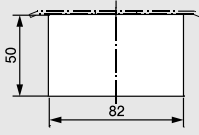
### Spindles

A range of interchangeable spindles is available to provide floor clearance in a variety of situations (doors with thresholds, carpeted floors etc).


Special spindles available on application: e.g. with 3° offset or square section; spindles for non-DORMA-specific accessories are also available.



Selection of spindles available

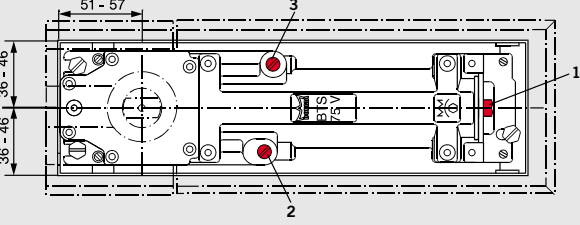


50  
82

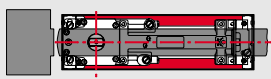


285

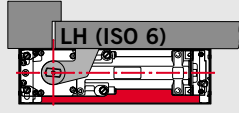
- 1 Adjusting screw for selecting the spring strength.
- 2 Valve for closing speed adjustment, 175° – 15°.
- 3 Valve for closing speed adjustment, 175° – 15°.



### Universal application ...

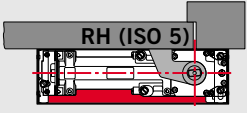


... for double action doors



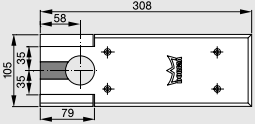
LH (ISO 6)

... for LH and RH single action doors

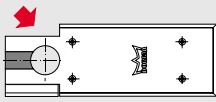


RH (ISO 5)


### Accessories



Cover plate for double action doors



Snap-off corner for LH (ISO 6) doors



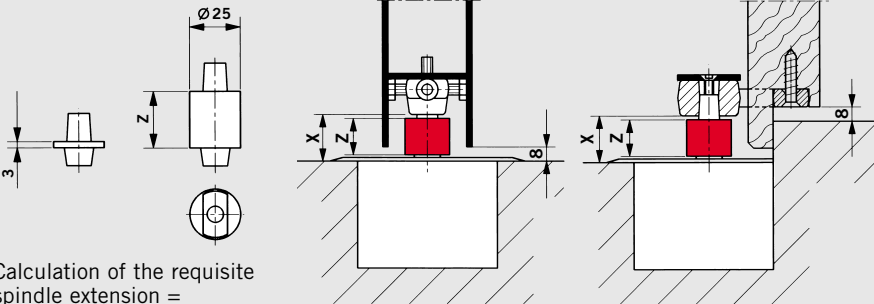
Snap-off corner for RH (ISO 5) doors

### Universal cover plate

Adaptable to right or left hand single action applications by simply snapping off the appropriate pre-blanked corner sections. For centre pivoted (i.e. double action) doors, the corner sections remain in place.

### DORMA 2300 sealing compound

For filling cavities between the floor spring body and the cement box to protect against moisture penetration (specified by German VOB regulations, inter alia, for wet rooms).



Calculation of the requisite spindle extension = **X** – floor clearance (standard value 8 mm)  
 Check calculation: Collar height **Z** – 3 mm = spindle extension

# DORMA BTS 80

## Specification text

Universal non-handed floor spring for single and double action doors up to max. 300 kg leaf weight. With closing action from approx. 175°, hydraulically fully controlled, and with integral pressure compensation feature for multi-point hold-open between 75° and 180° (removable). With adjustable hold-open start point, delayed action (end of delayed action range adjustable between 75° and 105°), and backcheck; including cement box and interchangeable spindle insert.

## Size

- EN 3
- EN 4
- EN 6

## Accessories

- Universal cover plate (1.5 mm thick)
  - stainless steel
  - satin brass
- Extended spindle insert, ... mm extension
- Sealing compound

## Make

DORMA BTS 80

- BTS80/3
- BTS80/4
- BTS80/6

## Spindles

A range of interchangeable spindles is available to provide floor clearance in a variety of situations (doors with thresholds, carpeted floors etc).

Special spindles available on application: e.g. with 3° offset or square section; spindles for non-DORMA-specific accessories are also available.

1 Valve for adjustment of the closing speed  
 2 Valve for activation of the hold-open or delayed action  
 3 Adjusting screw for varying the start of the hold-open range or the end point of the delayed action range

### Universal application ...

... for double action doors      ... for LH and RH single action doors

### Accessories

Cover plate for double action doors      Snap-off corner for LH (ISO 6) doors      Snap-off corner for RH (ISO 5) doors

### Universal cover plate

Adaptable to right or left hand single action applications by simply snapping off the appropriate pre-blanked corner sections. For centre pivoted (i.e. double action) doors, the corner sections remain in place.

The universal cover plate is available in stainless steel or satin brass (material thickness 1.5 mm).

### DORMA 2300 sealing compound

For filling cavities between the floor spring body and the cement box to protect against moisture penetration (specified by German VOB regulations, inter alia, for wet rooms).

Calculation of the requisite spindle extension =  $X$  - floor clearance (standard value 8 mm)  
 Check calculation: Collar height  $Z$  - 3 mm = spindle extension

## DORMA BTS 84

### Specification text

Floor spring for double action doors, with hydraulically fully controlled closing from approx. 130°, tested to EN 1154; including cement box and replaceable spindle insert.

### Size

- EN 3

### Models

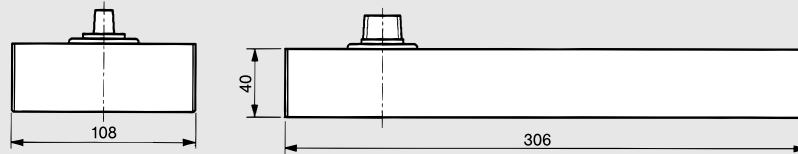
- Standard model
- With fixed hold-open at 90°
- With fixed hold-open at 105°

### Accessories

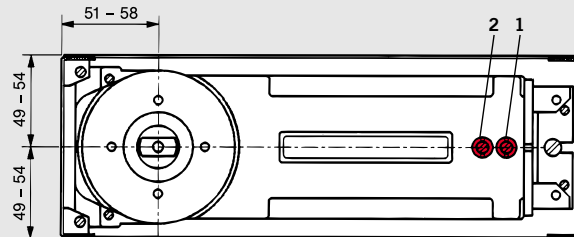
- Cover plate
  - stainless steel
  - satin brass
- Extended spindle insert, ... mm extension
- Sealing compound

Make DORMA BTS 84

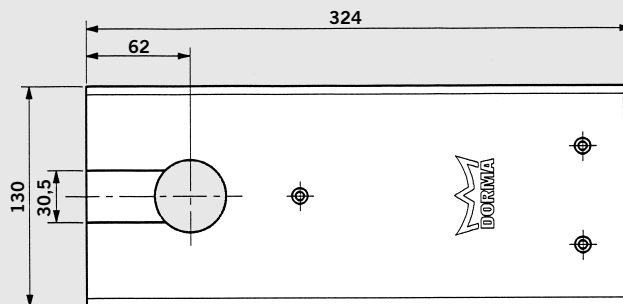
 BTS84/3



- 1 Valve for adjusting the closing speed in the range 130° to 0°
- 2 Valve for increasing the closing speed in the range 130° - 20°



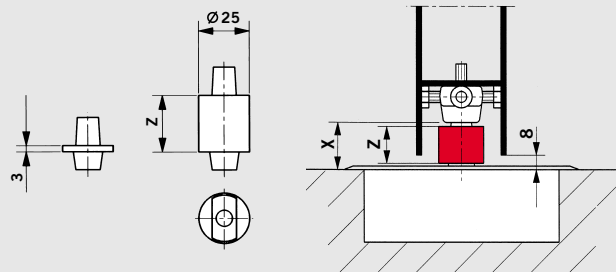
### Accessories



**Cover plate**  
available in stainless steel or satin brass.

Calculation of the requisite spindle extension =  $X$  - floor clearance (standard value 8 mm)  
Check calculation:  
Collar height  $Z$  - 3 mm  
= spindle extension

**DORMA 2300 sealing compound**  
For filling cavities between the floor spring body and the cement box to protect against moisture penetration (specified by German VOB regulations, inter alia, for wet rooms).



### Spindles

A range of interchangeable spindles is available to provide floor clearance in a variety of situations (doors with thresholds, carpeted floors etc).

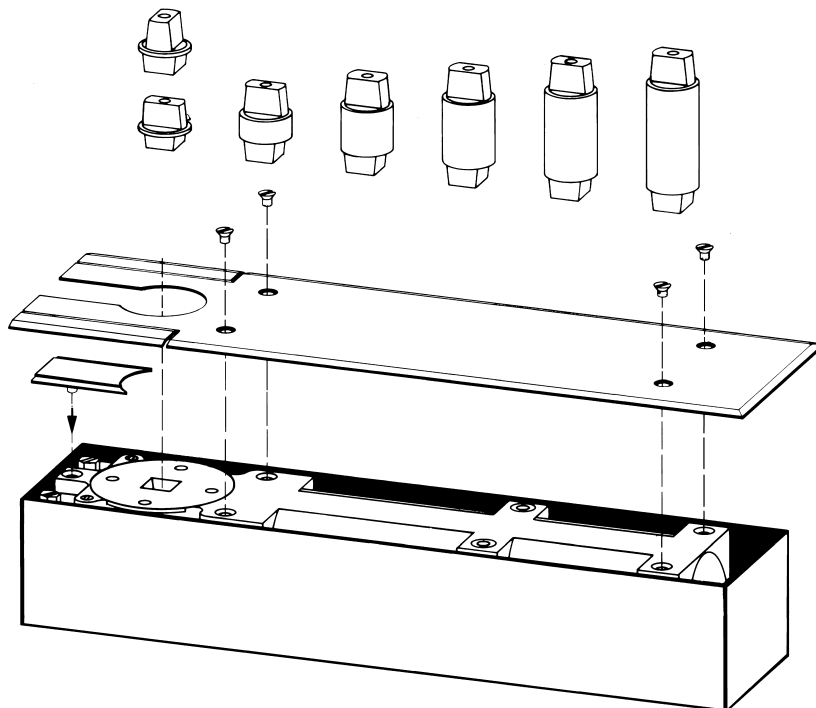
Special spindles available on application: e.g. with 3° offset or square section; spindles for non-DORMA-specific accessories are also available.

## Equipment and accessories

Floor spring including cement box and standard spindle	Floor spring including cement box without spindle	Extended interchangeable spindles* (extension in mm)														Universal cover plate		Sealing compound 2300 0.5 kg 45090059
		0 45200401	5 45200402	7.5 45200403	10 45200404	12.5 45200419	15 45200405	20 45200406	25 45200407	28 45200414	30 45200408	35 45200409	40 45200410	45 45200411	50 45200412	Stainless steel	Satin brass	
<b>BTS 75 V</b>																		
	Size EN 1 – 4 61701001	#	#	#	#	#	#	#	#	#	#	#	#	#	#	#	#	#
	Size EN 1 – 4 with hold-open at 90° 61701201	#	#	#	#	#	#	#	#	#	#	#	#	#	#	#	#	#
	Size EN 1 – 4 with hold-open at 105° 61701301	#	#	#	#	#	#	#	#	#	#	#	#	#	#	#	#	#
<b>BTS 80</b>																		
EN 3 80120000	EN 3 80120001	#	#	#	#	#	#	#	#	#	#	#	#	#	#	#	#	#
EN 4 80110000	EN 4 80110001	#	#	#	#	#	#	#	#	#	#	#	#	#	#	#	#	#
EN 6 80130000	EN 6 80130001	#	#	#	#	#	#	#	#	#	#	#	#	#	#	#	#	#
<b>BTS 84</b>																		
EN 3 81110002	81110001	#	#	#	#	#	#	#	#	#	#	#	#	#	#	#	#	#
with hold-open at 90° EN 3 81210002	81210001	#	#	#	#	#	#	#	#	#	#	#	#	#	#	#	#	#

# = Optional accessory

\*Special models on application:  
e.g. with 3° offset or square section insert; spindles for non-DORMA-specific accessories also available



## For aluminium-framed single action doors

### Aluminium door straps

- for flush-closing single action doors of various systems
- door widths up to 1200 mm, leaf weights up to 120 kg
- non-handed
- easy to install – no cutting work required; just four drill holes
- fast fixing thanks to lock pin connections
- robust and secure connection with insert plate and reinforcing bracket
- the press-fitted steel insert provides a robust, load-bearing interference fit with the floor spring's spindle

### DORMA aluminium door straps

Art. No. 7459

Silver finish (EV 1, Euras C-0):

Order No. 45010409

Dark brown finish

(DB 4, Euras C-34):

Order No. 45010709

Special colours on application.

### DORMA aluminium door straps

Art. No. 7459 B

Silver finish (EV 1, Euras C-0):

Order No. 45010482

Dark brown finish

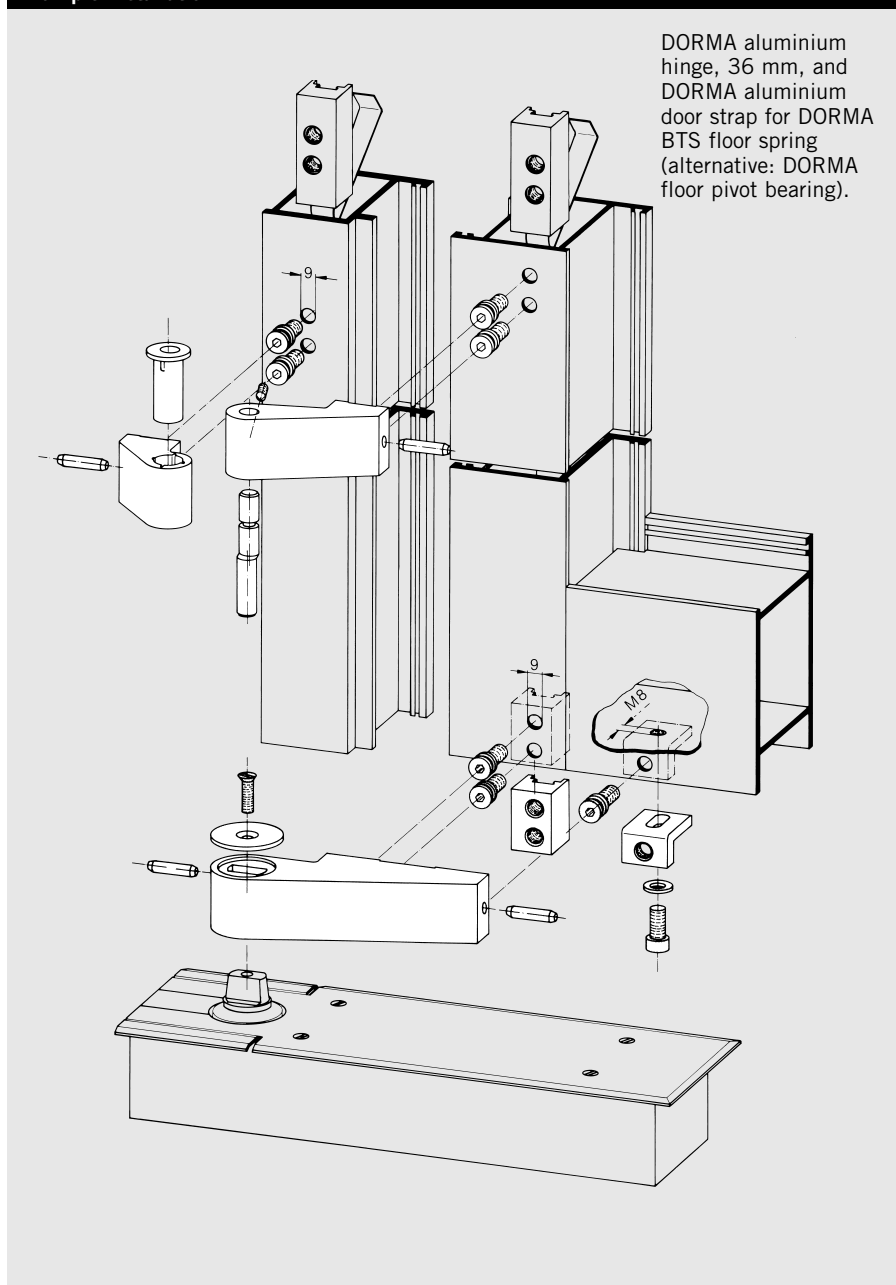
(DB 4, Euras C-34):

Order No. 45010782

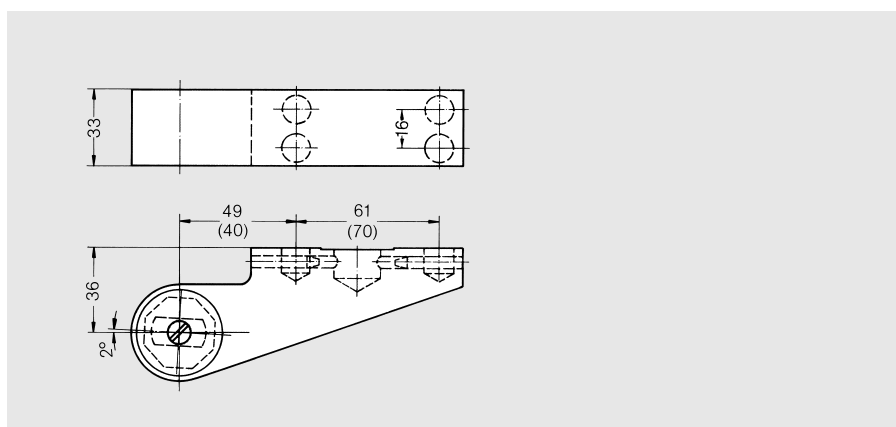
Special colours on application.

( ) = Dimensions for model 7459 B

### Example installation



DORMA aluminium hinge, 36 mm, and DORMA aluminium door strap for DORMA BTS floor spring (alternative: DORMA floor pivot bearing).





**Drilling template for aluminium hinges**

For standard hinges (9 mm dia.), for insulated door hinges (11 mm dia.) and also for 2 and 3-part hinges; indicate dimensions x and y, or profile system.

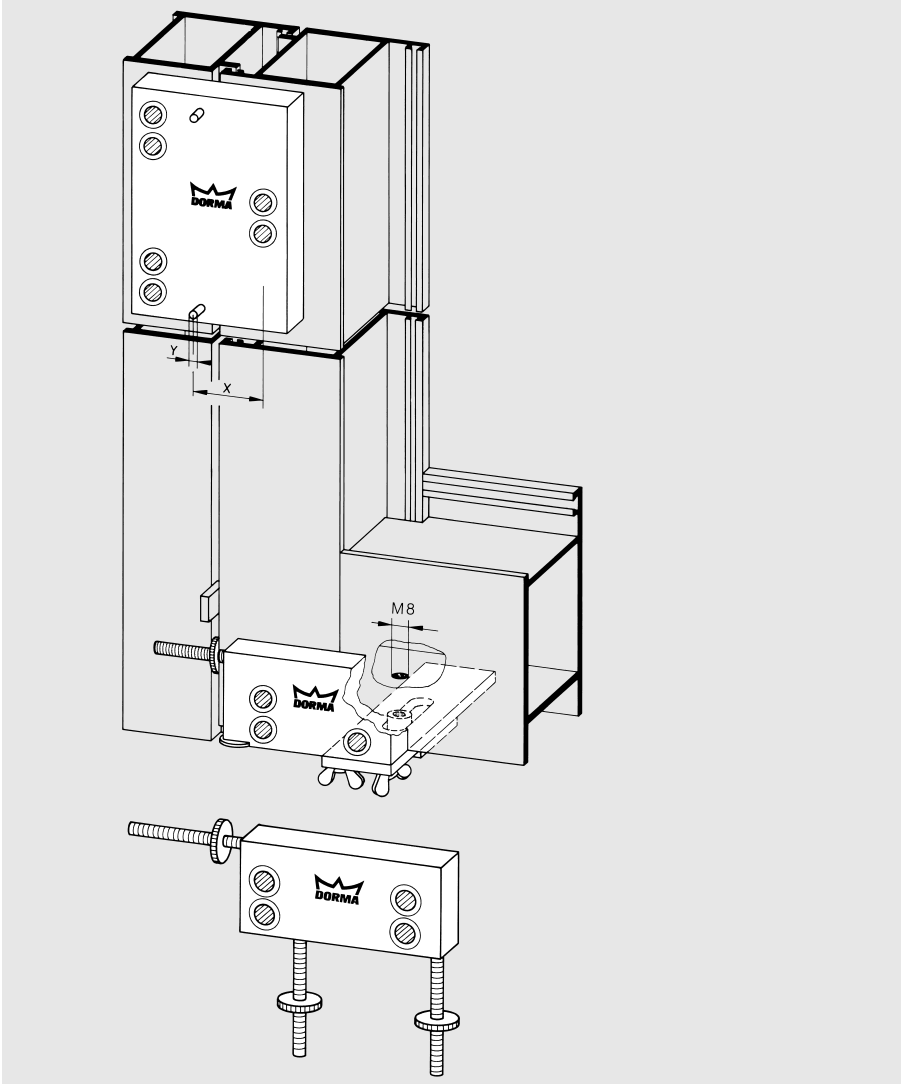
**Universal drilling template for aluminium door straps**

Art. No. 7459 L  
Adjustable to different profile systems; for standard doors (9 mm dia.) and insulated doors, external fixing (11 mm dia.).  
Standard model:  
Order No. 45090074  
Type B model:  
Order No. 45090075

**Universal drilling template for LM door straps for direct screw fixing**

Art. No. 7459 L/D  
Adjustable to different profile systems, designed for direct fixing; for standard doors (9 mm dia.) and insulated doors, external fixing (11 mm dia.).  
Standard model:  
Order No. 45090077  
Type B model:  
Order No. 45090078

**Drilling templates**



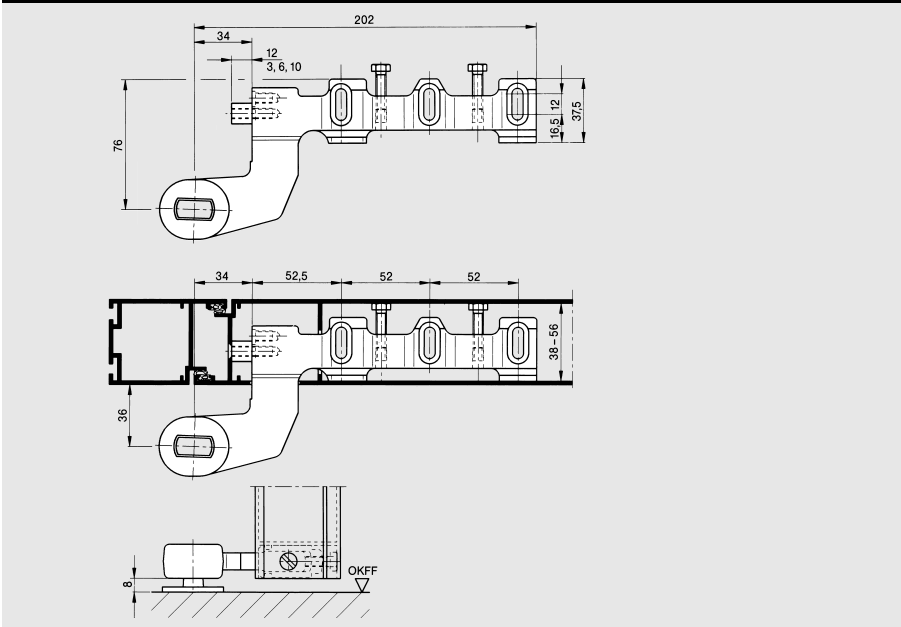
**Heavy duty door straps**

Art. No. 7456/1  
Drop-forged steel; adjustable to different profile systems, non-handed.  
Order No. 45010006

**Covers**

See pages 10 and 11,  
Art. No. 8081/2 and 7481/2.

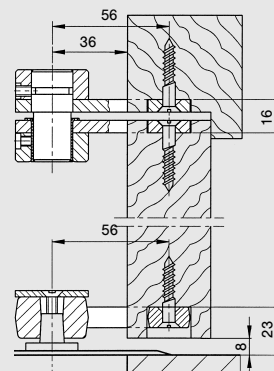
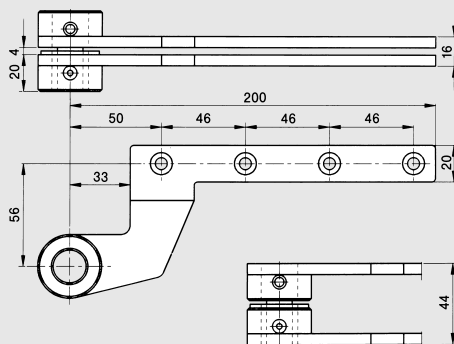
**Drop-forged steel door strap**



## For flush-closing single action timber doors

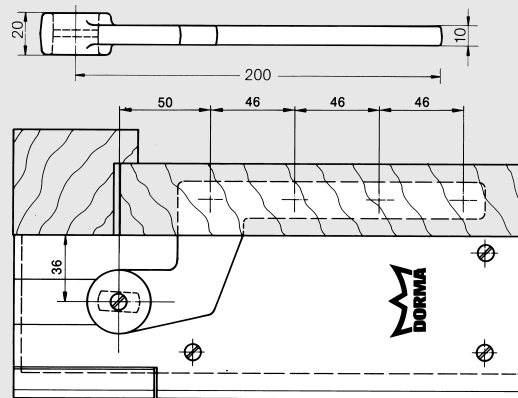
### Top centre

Art. No. 7411 K/56  
Steel, zinc-plated; with eccentric pin and eccentric plastic bushing for adjusting the door once installed (adjustment range  $\pm 2$  mm); non-handed.  
Order No. 45300016



### Door strap

Art. No. 7411/56  
Drop-forged steel, zinc-plated.  
Order No. 45010003

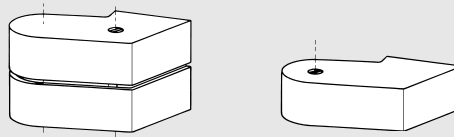


### Washer cover for door strap

Art. No. 7432  
of stainless steel.  
Order No. 45090030

### Covers

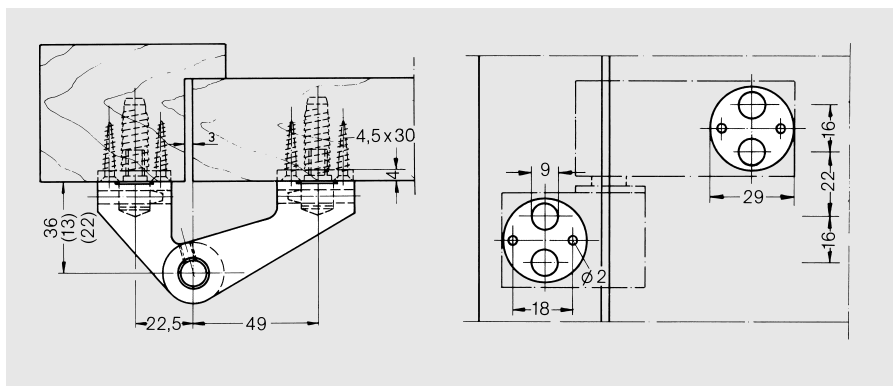
for top centre and  
for door strap



Design	Order No. for covers		
	For top centre, two-part	For door strap, single part	
		LH door (ISO 6)	RH door (ISO 5)
Die-cast aluminium Art. No. 7483/7481 Suitable for anodising Silver (EV 1, Euras C-0) Dark brown (DB 4, Euras C-34)	45500301 45500401 45500701	45055300 45055400 45055700	45051300 45051400 45051700

### Aluminium hinges with fixings for flush-closing timber doors

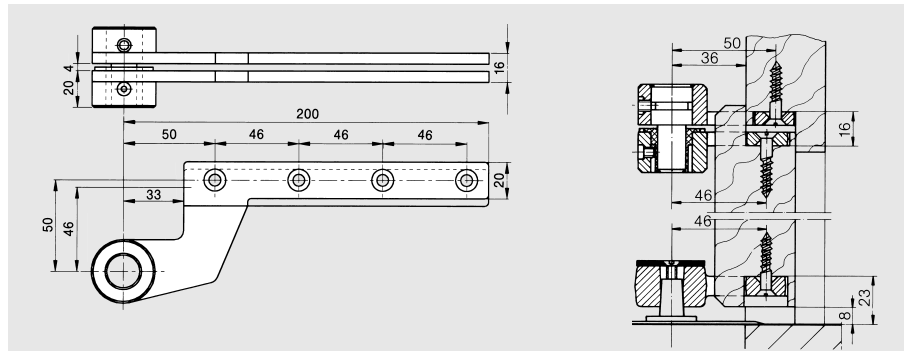
Offset in mm	Art. No.
36	A-36.10
22	A-22.10
13	A-13.10



## For over-rebated single action timber doors

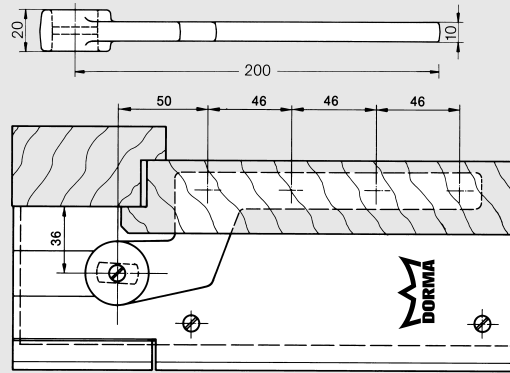
### Top centre

Art. No. 7411 K/46  
Steel, zinc-plated; with eccentric pin and eccentric plastic bushing for adjusting the door once installed (adjustment range  $\pm 2$  mm).  
LH door (ISO 6)  
Order No. 45305015  
RH door (ISO 5)  
Order No. 45301015



### Door strap

Art. No. 7411/46  
Drop-forged steel, zinc-plated.  
Order No. 45010000

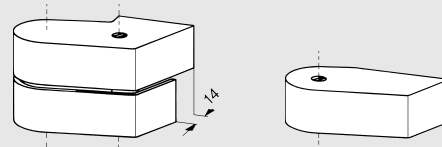


### Washer cover for door strap

Art. No. 7432  
of stainless steel.  
Order No. 45090030

### Covers

for top centre and for door strap



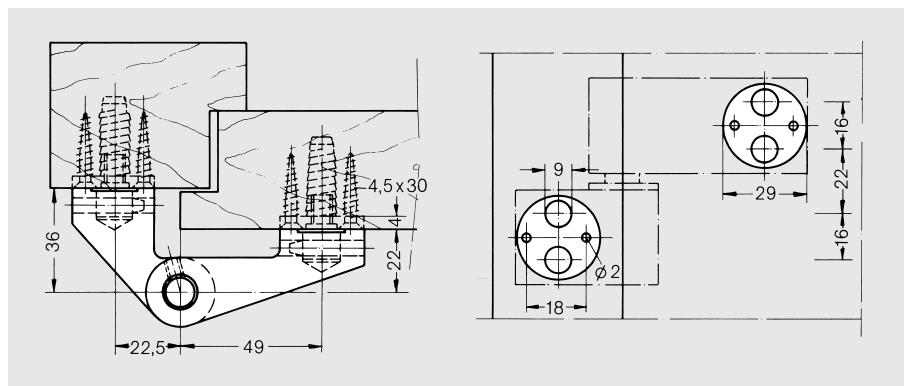
Design	Order No. for covers			
	For top centre, two-part		For door strap, single part	
	LH door (ISO 6)	RH door (ISO 5)	LH door (ISO 6)	RH door (ISO 5)
Die-cast aluminium Art. No. 7484/7482 Suitable for anodising	45505300	45501300	45055301	45051301
Silver (EV 1, Euras C-0)	45505400	45501400	45055401	45051401
Dark brown (DB 4, Euras C-34)	45505700	45501700	45055701	45051701

### Aluminium hinges with fixings for over-rebated timber doors

For order numbers, see separate aluminium hinges brochure

### Drilling template for flush-closing and over-rebated doors

Dimension x = 50,5 mm  
Dimension y = 3 mm

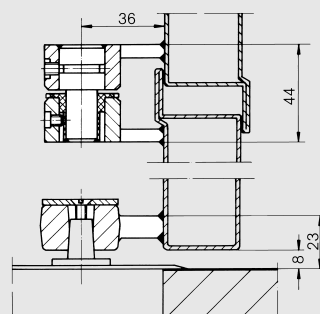
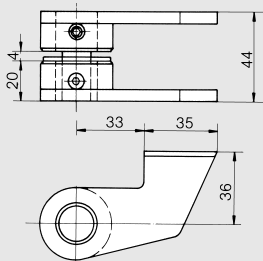


## For single action steel doors

### Weld-on

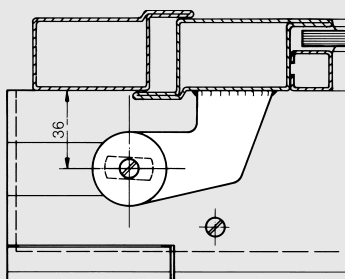
#### Top centre

Art. No. 7431 K  
Steel, primer-coated; with eccentric pin and eccentric plastic bushing for adjusting the door once installed (adjustment range  $\pm 2$  mm); non-handed.  
Order No. 45300012



#### Door strap

Art. No. 7431  
Drop-forged steel, primer-coated.  
Order No. 45010005



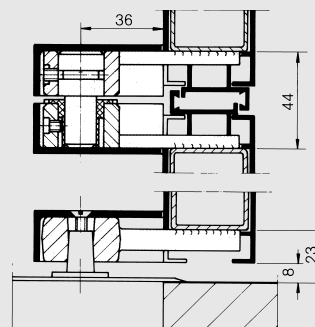
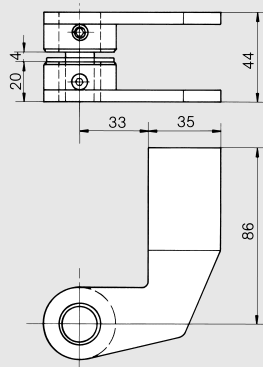
#### Washer cover for door strap

Art. No. 7432  
of stainless steel.  
Order No. 45090030

### Weld-in

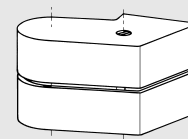
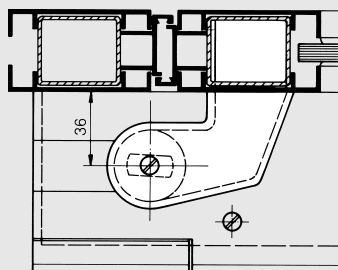
#### Top centre

Art. No. 7441 K  
Steel, primer-coated; with eccentric pin and eccentric plastic bushing for adjusting the door once installed (adjustment range  $\pm 2$  mm); non-handed.  
Order No. 45300014



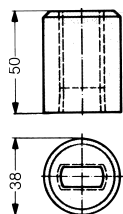
#### Door strap

Art. No. 7441  
Drop-forged steel, primer-coated.  
Order No. 45010007



#### Covers

See pages 10 and 11  
Art. No. 8081/2 and 7481/2



#### Weld-on extension

Art. No. 7412  
Order No. 45090011



## For steel, aluminium and timber double action doors

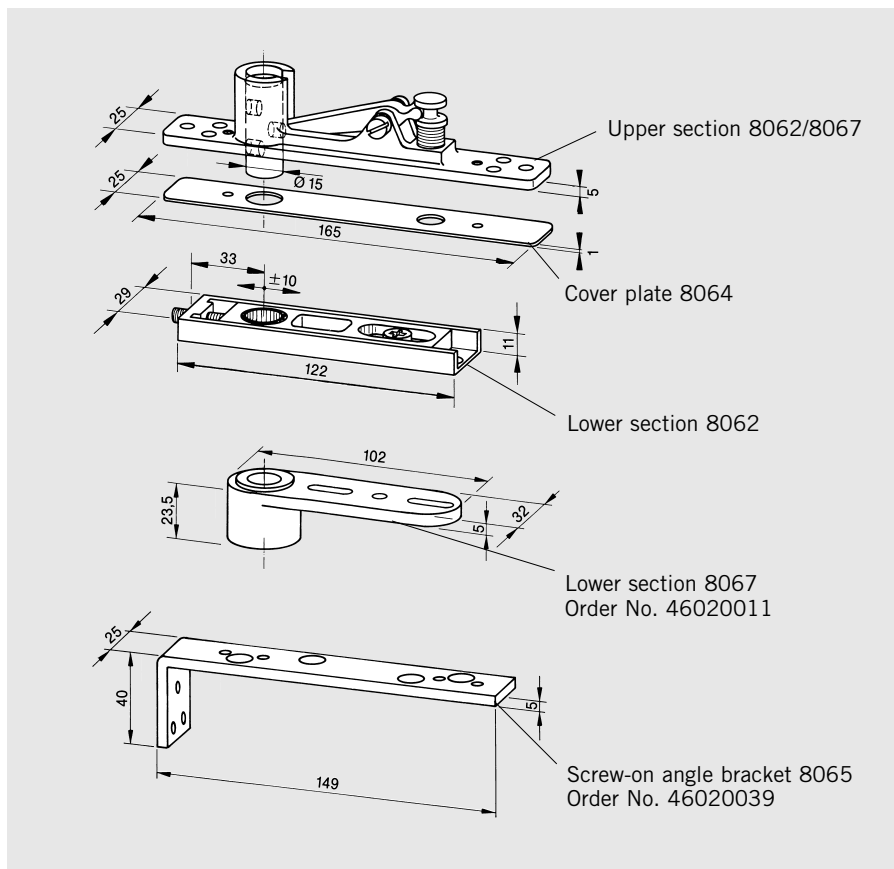
### Adjustable top centre (complete)

Art. No. 8062 in die-cast aluminium  
Order No. 46300003  
Art. No. 8066 in steel  
Order No. 46300004  
comprising upper section with adjustable pin for bridging door-frame gaps up to 20 mm, and lower section with needle bearing. Flat design ensures no routing or milling of the basic frame profile necessary.

For bridging of larger door-frame gaps, a top centre with 10 mm or 20 mm extended pin is also available.

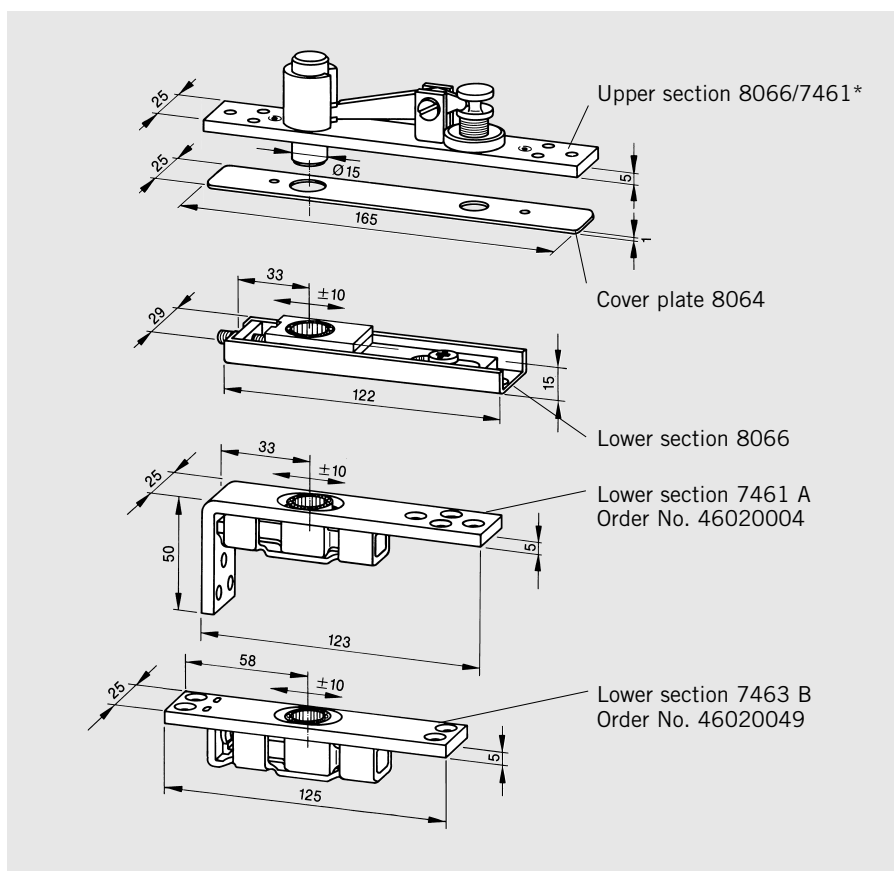
### Cover plate

Art. No. 8064  
Order No. for stainless steel 46020044  
Order No. EV 1 (C-0) 46300530  
in stainless steel, bright aluminium and EV 1 (Euras C-0)



### Adjustable top centre

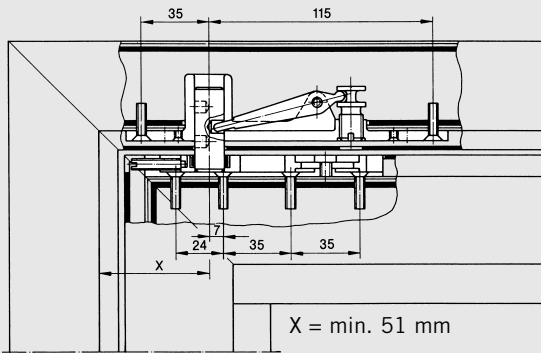
comprising an upper section with adjustable pin for bridging door-frame gaps up to max. 20 mm, and a lower section (A or B) for special door constructions. A top centre upper section with a 10 mm or 20 mm extended pin is available for bridging larger door-frame gaps.



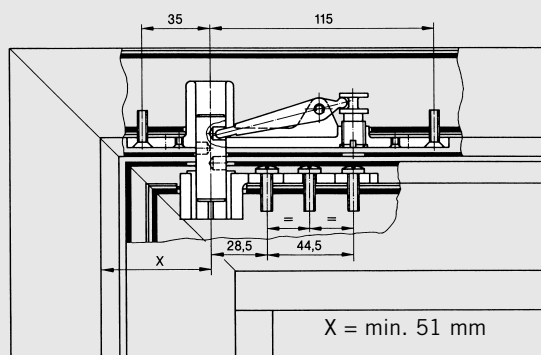
\* For lower sections 7461 A and 7463 B, use upper section 7461 with 13 mm dia. pin, Order No. 46020036.

## Example installations

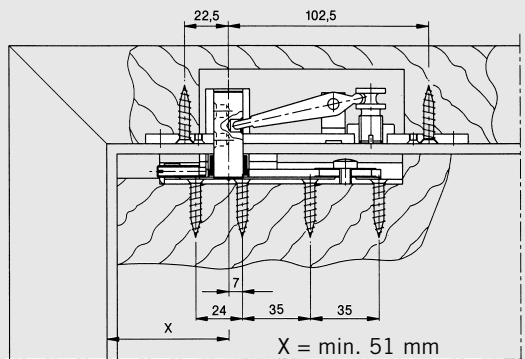
for aluminium doors **Top centre 8062**



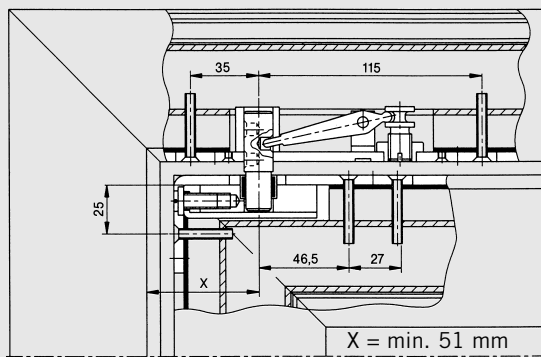
for steel doors **Top centre 8067**



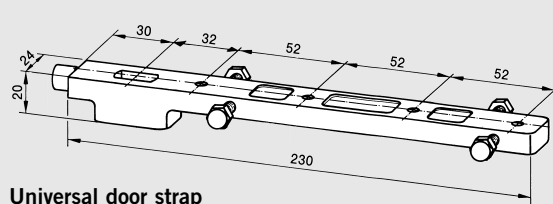
for timber doors **Top centre 8066**



for steel doors **Top centre 7461**



## Door straps

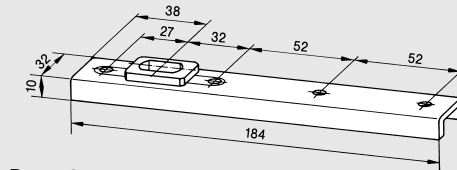


### Universal door strap

Art. No. 7422

Drop-forged steel, zinc-plated; adjustable to different profile systems.

Order No. 46010002

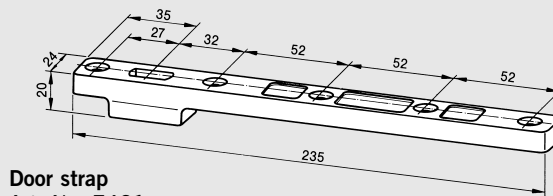


### Door strap

Art. No. 8021

Zinc-plated steel; for leaf weights up to 100 kg.

Order No. 45010410



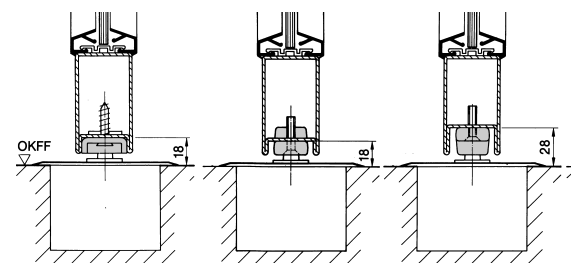
### Door strap

Art. No. 7421

Drop-forged steel, zinc-plated.

Order No. 46010001

## Door strap installation examples

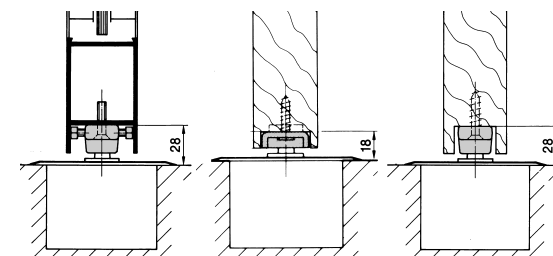


Door strap 8021

Door strap 7421

Door strap 7421

with milled recess without milled recess



Door strap 7422

Door strap 8021

Door strap 7421

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Subject to change without notice





Transom concealed  
door closer

# DORMA RTS 85

## Disappears into the frame

**Ideal for shopfitting. For both double and single action doors. Elegant, versatile, practical and quality assured.** The DORMA RTS 85 offers a solution for installations where door control must be provided without disturbing the aesthetic appearance of the door. The majority of preparation can be accomplished by the fabricator prior to installation,

leaving minimal on-site work. A complete line of accessories is available to accommodate virtually any door and frame configuration.



Quality assured manufacture to DIN ISO 9001, EN 29001, BS 5750, certified and verified by BSI Quality Assurance Reg.-No. Q 6423, FM 10756

### Plus points

#### For the trade

- Just **one** body for all types of fixing.
- Low inventory costs and minimal stocking requirement thanks to unit packs for closer body and accessories.

#### For the fabricator

- Can be used for double action doors, or left and right hand single action doors.
- Installation and setting adjustment possible before fixing the doorset on site.
- No floor preparation necessary.
- Positive "zero" position for double action doors – easy to adjust.
- Comprehensive range of accessories.

#### For the architect/specifier

- Aesthetically impressive solution – especially with toughened glass doors.
- Ideal for shopfitting applications.

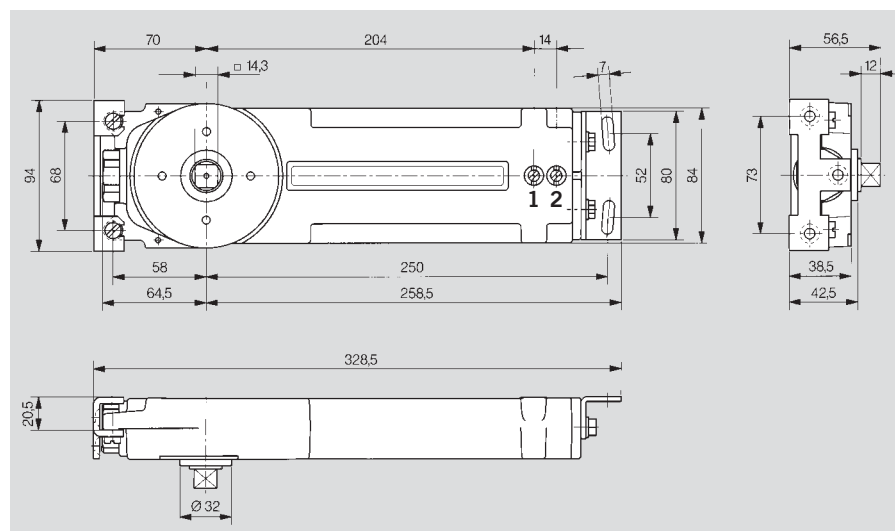
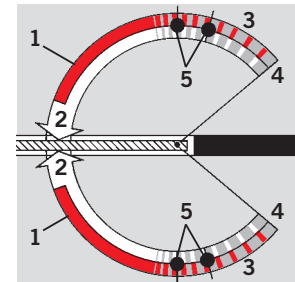
#### For the user

- No cluttering of door or floor appearance.
- Backcheck to prevent door contact with the frame.
- Smooth closing with adjustable closing speed.

Technical Data		RTS 85		
		EN 3	EN 4	EN 5
Closing force				
Internal doors*	up to 950 mm	●	–	–
	1100 mm	–	●	–
	1250 mm	–	–	●
External doors*	up to 950 mm	●	–	–
	1100 mm	–	●	–
	1050 mm	–	–	●
Same model for double action doors, RH (ISO 5) and LH (ISO 6)		●	●	●
Closing speed variable by valve adjustment		●	●	●
Final closing speed variable by valve adjustment		●	●	●
Backcheck, progressive, mechanical		●	●	●
Backstop, mechanical		●	●	●
Hold-open	105°	○	○	○
	90°	○	○	○
Extended spindle	5 mm	○	○	○
	10 mm	○	○	○
Reduced pivot point for tempered glass doors (65 mm)		○	○	○
Weight in kg		4.7	4.8	4.9
Dimensions in mm	Length	323	323	323
	Width	90	90	90
	Height	38	38	38
Door closer tested to EN 1154		●	●	●

● Yes – No ○ Option

\* Max Door weight for floor pivot 8550–8557 90 kgs  
8560 G 200 kgs.



### Standard and optional functions

- 1 Fully controlled closing with adjustable speed
- 2 Adjustable final closing
- 3 Progressive mechanical backcheck
- 4 Mechanical backstop\*\*
- 5 Hold-open points – depending on model (optional) 105° or 90°

\*\* Door opening angle max. 130° on both sides; in the case of heavy doors which can be opened further, door stops must be used. In the case of single action doors, the opening angle may be reduced depending on the door design.

**Accessories for double action and centre pivoted single action doors (70 mm pivot point)**
**Side-load installation**

Side-load installation is achieved by offering the door in the closed position, onto the floor pivot. The closer arm, fitted in the upper door rail, is connected to the spindle and secured with a clamping piece.

**1 Closer arm with arm channel**

Art.-No. 8530  
for top rails with min. 15 mm channel depth and 38 mm width.

**2 Closer arm with angle bracket**

Art.-No. 8531  
for top rails with min. 12 mm channel depth and 38 mm width (not suitable for doors with mitred-joints).

**3 Floor pivot set, total height 27 mm**

Art.-No. 8550  
for bottom rails with channel depth of 18–20 mm. Floor portion of pivot is fitted directly to floor.

**Floor pivot set, total height 57 mm**

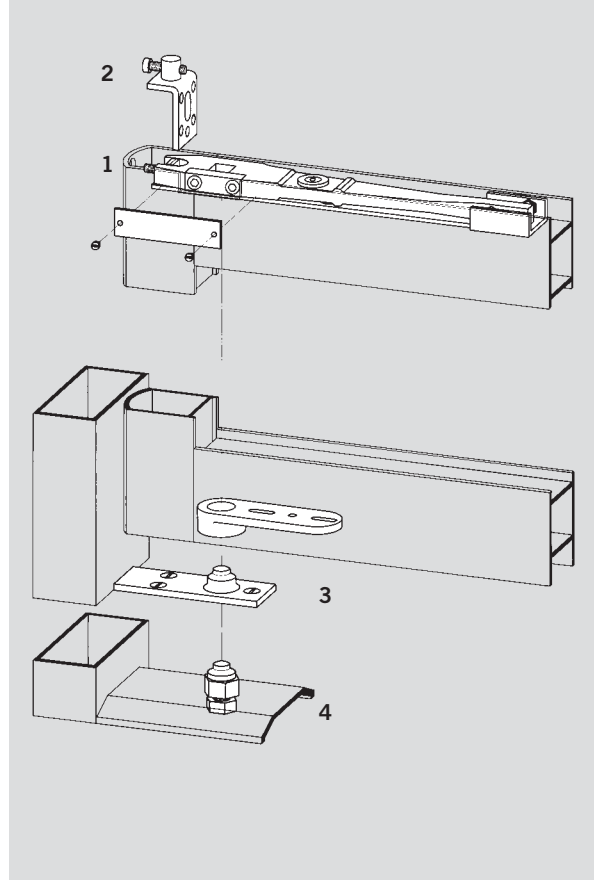
Art.-No. 8551  
for bottom rails with channel depth of 18–50 mm. (Floor portion may be shortened to suit bottom rail.) Floor portion of pivot is fitted directly to floor.

**4 Threshold pivot set**

Art.-No. 8554  
for bottom rails with channel depth of 25 mm. Floor clearance: 5 mm. Floor portion is fitted directly to threshold. (Upper portion same as 3).

**Threshold pivot set**

Art.-No. 8556  
for bottom rails with channel depth of 40 mm. Floor clearance: 5 mm. Floor portion is fitted directly to threshold. (Upper portion same as 3).


**End-load installation**

End-load installation is achieved by offering the door, in the open position, onto the floor pivot and spindle simultaneously. The floor pivot locks automatically, connection to spindle is secured with a clamping piece.

**1 Closer arm with arm channel**

Art.-No. 8534  
for top rails with min. 21 mm channel depth and 35 mm width.

**2 Closer arm with angle bracket**

Art.-No. 8535  
for top rails with min. 18 mm channel depth and 35 mm width (not suitable for doors with mitred-joints).

**3 Floor pivot set, total height 27 mm**

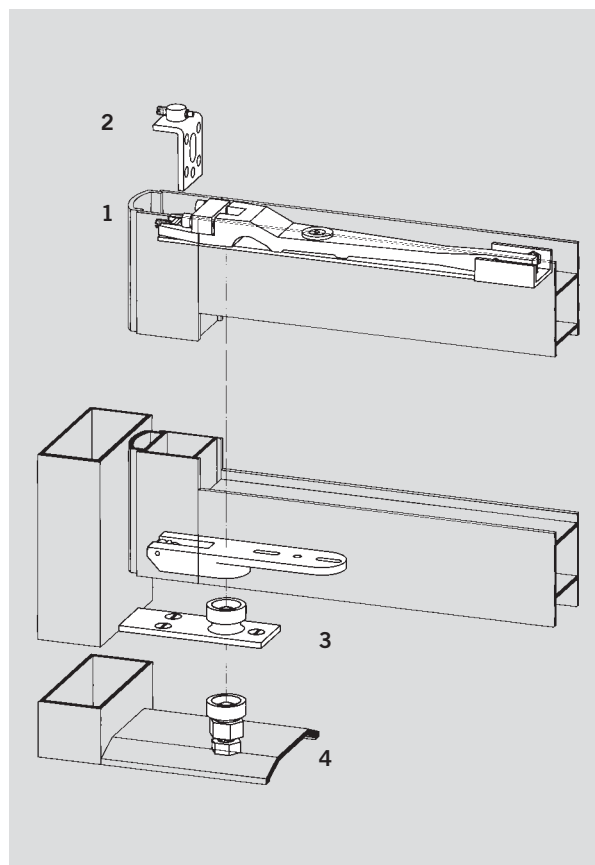
Art.-No. 8552  
for bottom rails with channel depth of 18–20 mm. Floor portion of pivot is fitted directly to floor.

**Floor pivot set, total height 57 mm**

Art.-No. 8553  
for bottom rails with channel depth of 18–50 mm. (Floor portion may be cut to suit bottom rail). Floor portion is fitted directly to floor.

**4 Threshold pivot set**

Art.-No. 8555  
for bottom rails with channel depth of 25 mm. Floor clearance: 5 mm. Floor portion is fitted directly to threshold. (Upper portion same as 3).



**Accessories for butt hung or offset pivoted single action doors**

Single action doors hung on butt hinges or offset pivots can be connected to the closer with slide arm and channel assemblies. Please note that this application may reduce the maximum opening angle available on the door. Similarly, if a hold-open model has been selected, the hold-open point will be altered: eg instead of 105°, the position

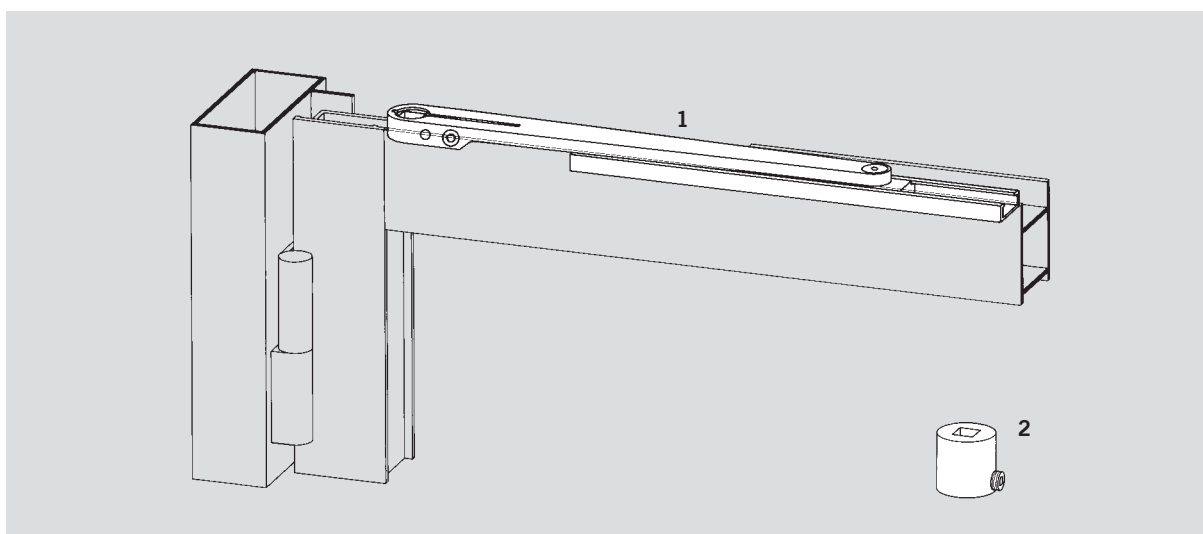
will lie between 90° and 100°, depending on door thickness.

**Note:**  
Maximum door opening with slide arm and channel assemblies –105°. Consult our Technical Service Department giving specific details for slide arm and channel assemblies. Drawings of door and frame

details must be submitted together with the pivot centre of the hinge.

**1 Slide arm and channel**  
Art.-No. 8510

**2 Weld-on extension**  
Art.-No. 8521  
For steel doors, 40 mm long (can be shortened), 38 mm dia.

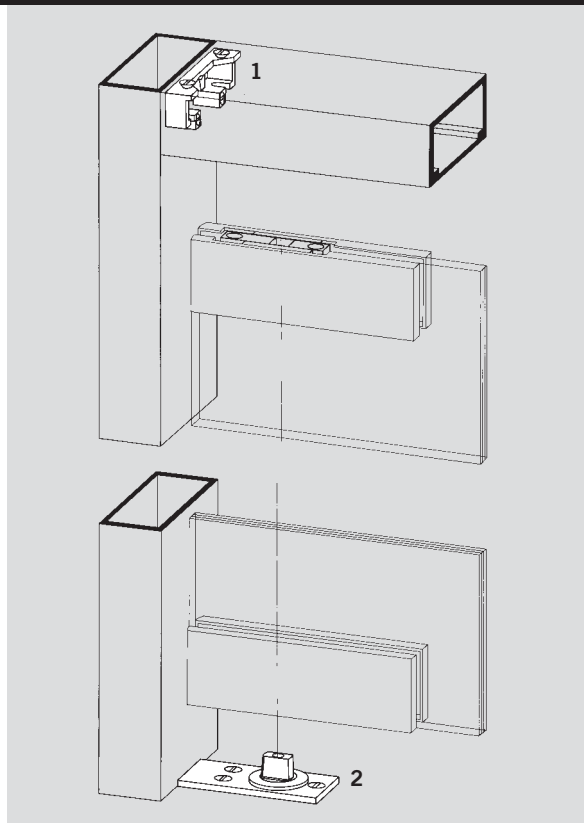


**Accessories for tempered glass doors (65 mm pivot point)**

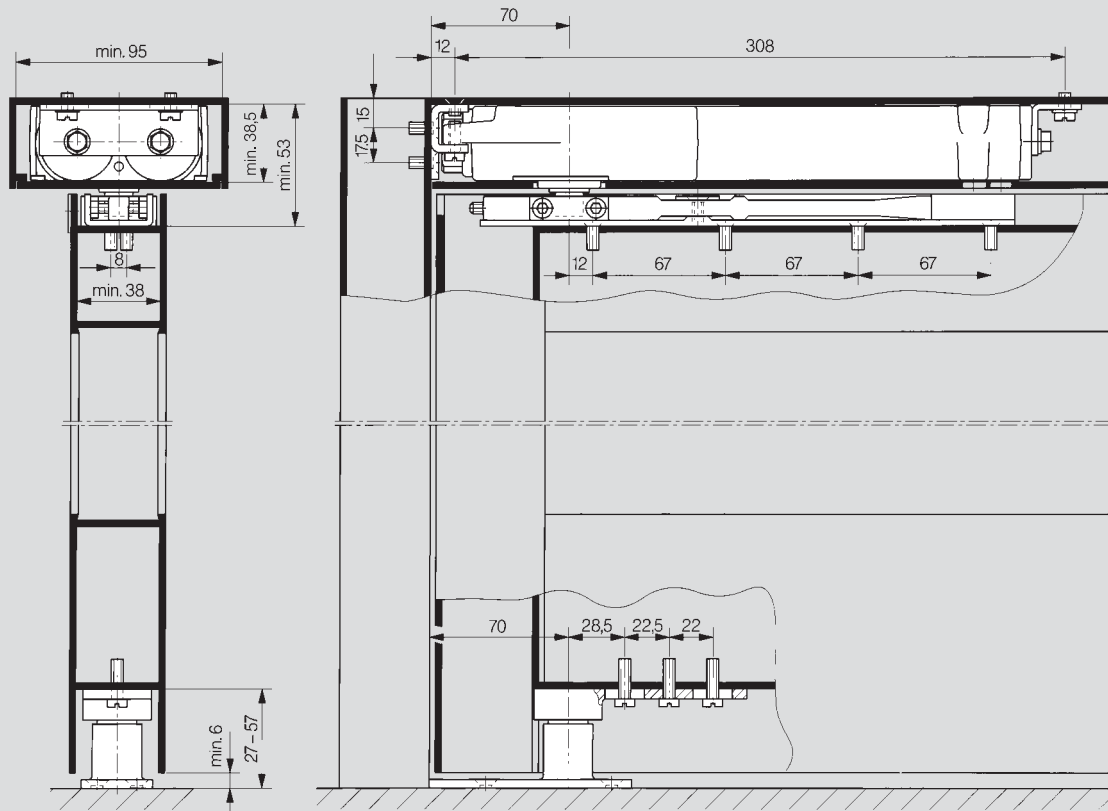
For tempered glass doors, the RTS 85 is used with a special fixing bracket, Art.-No. 8520 G, giving a 65 mm pivot point. The standard patch fittings can thus be used with appropriate inserts. (Patch fittings with insert available from DORMA-Glas range of products).

**1 Fixing bracket**  
Art.-No. 8520 G  
For fixing the DORMA RTS in the transom.

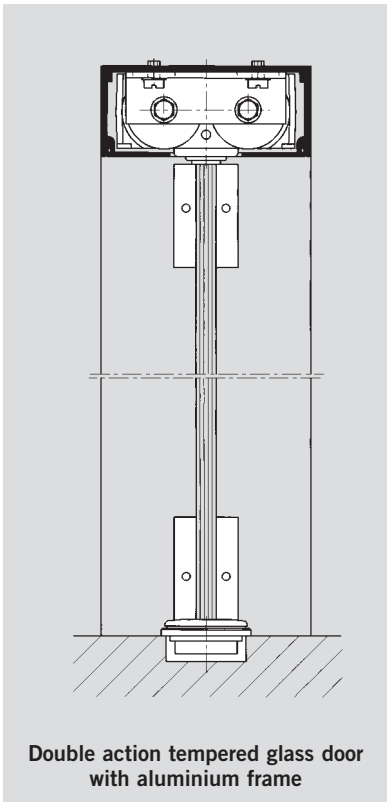
**2 Floor pivot bearing with flat-tapered spindle**  
Art.-No. 8560 G  
With sealed roller bearing assembly, rust-protected, for max. door weights of 110 kg (if used without the transom concealed door closer, then 200 kg).  
Special pivots also available with extended spindles of 5, 10 and 15 mm, and also for special environments (e.g. wet rooms) in stainless steel; Art.-No. 8560 GE (only available with standard spindle).  
The floor pivot bearing combined with appropriate bottom straps from the accessories range for DORMA BTS floor springs is also suitable for aluminium, steel and timber doors.



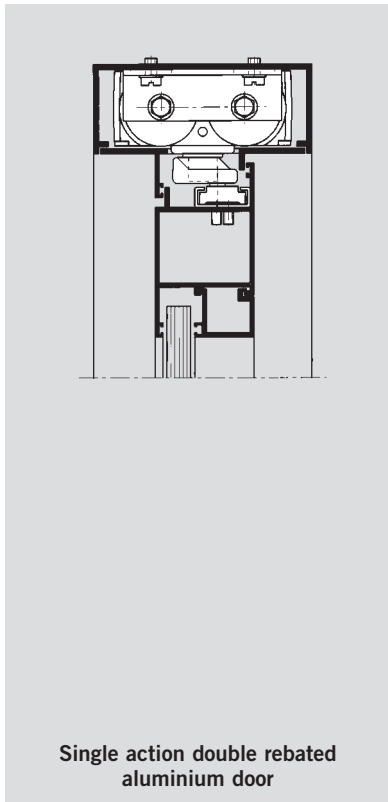
**Typical applications**



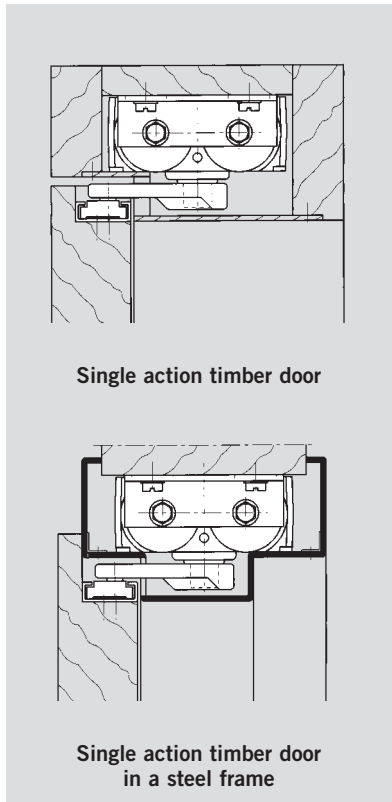
**Double action aluminium door**



**Double action tempered glass door with aluminium frame**



**Single action double rebated aluminium door**



**Single action timber door**

**Single action timber door in a steel frame**

Detailed installation drawings on a scale of 1:1 will be provided on request.

## DORMA RTS 85 for double and single action doors

Door closer RTS 85	Standard model	Standard model with hold-open at 105°	Standard model with hold-open at 90°	with spindle insert 5 mm extended	with spindle insert 5 mm extended and hold-open at 105°	with spindle insert 5 mm extended and hold-open at 90°	with spindle insert 10 mm extended	with spindle insert 10 mm extended and hold-open at 105°	with spindle insert 10 mm extended and hold-open at 90°
EN 3	85311101	85313101	85312101	85311102	85313102	85312102	85311103	85313103	85312103
EN 4	85321101	85323101	85322101	85321102	85323102	85322102	85321103	85323103	85322103
EN 5	85331101	85333101	85332101	85331102	85333102	85332102	85331103	85333103	85332103

Accessories	closer arm with channel	closer arm with bracket	Floor pivot set, height 27 mm	Floor pivot set, height 57 mm	Threshold pivot set 1"	Threshold pivot set 1 9/16"	Closer arm with channel for single action doors	weld-on extensions
Side-load installation	85210005	85210007	65310300	65410300	65510400	65510500	85210001	85110001
End-load installation	85210009	85210011	65320300	65420300	65520400	-		

## DORMA RTS 85 for tempered glass doors

Door closer RTS 85 G	Standard model	Standard model with hold-open at 105°	Standard model with hold-open 90°	with spindle insert 5 mm extended	with spindle insert 5 mm extended and hold-open at 105°	with spindle insert 5 mm extended and hold-open at 90°	with spindle insert 10 mm extended	with spindle insert 10 mm extended and hold-open at 105°	with spindle insert 10 mm extended and hold-open at 90°
EN 3	85311301	85313301	85312301	85311302	85313302	85312302	85311303	85313303	85312303
EN 4	85321301	85323301	85322301	85321302	85323302	85322302	85321303	85323303	85322303
EN 5	85331301	85333301	85332301	85331302	85333302	85332302	85331303	85333303	85332303

Accessories	Floor pivot set	Floor pivot set 5 mm extended	Floor pivot set 10 mm extended	Floor pivot set 15 mm extended	Floor pivot set stainless steel
to RTS 85 G	65540000	85210025	85210026	85210027	85540059

## Specification text

Transom concealed door closer with built-in cushion backcheck, adjustable closing speed and sweep range.

## Size

EN 3  EN 4  EN 5

## Model

- For both single and double action doors (pivot point 70 mm)  
 For tempered glass doors (pivot point 65 mm)  
 Non hold-open  
 Hold-open at 105°

- Hold-open at 90°  
 With spindle insert 5 mm extended  
 With spindle insert 10 mm extended  
 Closer arm  
 Art.-No. \_\_\_\_\_

- Floor pivot set  
 Art.-No. \_\_\_\_\_

**Make:** DORMA RTS 85

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