DORMA

Cam-action
door closers

DORMA TS 92
TS 91

reddot design award
winner 2005

The universal closers for standard doors – tested and approved to EN 1154

As units designed especially for interior applications, the DORMA TS 92 and TS 91 door closers constitute the perfect complement to the DORMA TS 93 cam-action door closer system. They likewise come in the Contur design and, thanks to their linear drive mechanism with heart-shaped cam, they offer the same ease of use.

Moreover, their competitive pricing combined with their outstanding level of assured quality make them particularly attractive from an economic standpoint as well.

Certified to ISO 9001

Benefits

for the trade
- Inexpensive cam-action technology for standard interior doors.
- Low storage costs and reduced inventory requirement thanks to uniform slide channels of the Contur series.

for the fabricator
- Non-handed.
- Easy to fix and quickly adjustable.

for the architect/specifier
- Excellent value for money.
- Uniform appearance throughout the entire Contur slide channel range.

for the user
- Exceptional ease of use and fully controlled closing action.
- Optimum adaptability of the closing speed with reliable latching thanks to two regulating valves.

Data and features		TS 92 B/G[1]	TS 91 B
Closing force	EN size	2–4	3
Adjustable		●	–
Standard doors[2]	up to 950 mm	–	●
	up to 1100 mm	●	–
External doors, outward opening[2]		–	–
Fire and smoke check doors		●	●
Non-handed design		●	●
Arm assembly	Slide channel	●	●
Closing speed and latching action independently adjustable at two separate valves	180°–15°	●	●
	15°– 0°		
Cushioned limit stay, mechanical		○	○
Backcheck		–	–
Delayed action		–	–
Hold-open		○	○
Weight in kg		2,0	1,9
Dimensions in mm	Length	279	265
	Overall depth	47	47
	Height	65	65
Door closer approved to EN 1154		●	●
CE mark for building products		●	●

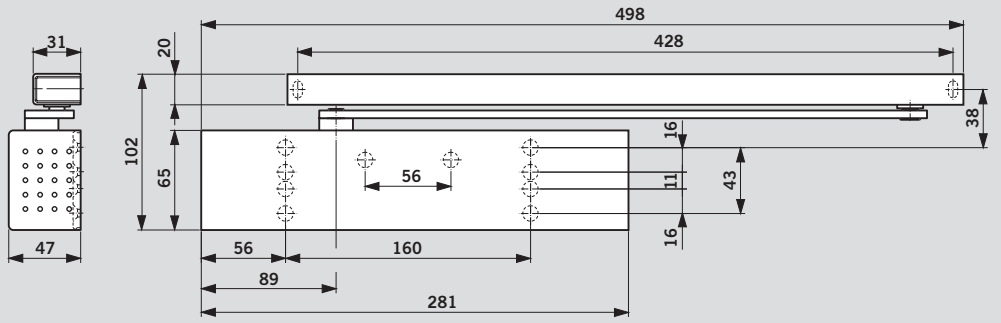
● yes – no ○ option

[1] B = Standard model for pull-side door leaf fixing/push-side transom fixing.
G = Special model for push-side door leaf fixing/pull-side transom fixing.
[2] For particularly heavy doors and doors which have to close against wind resistance, we recommend the DORMA TS 93.

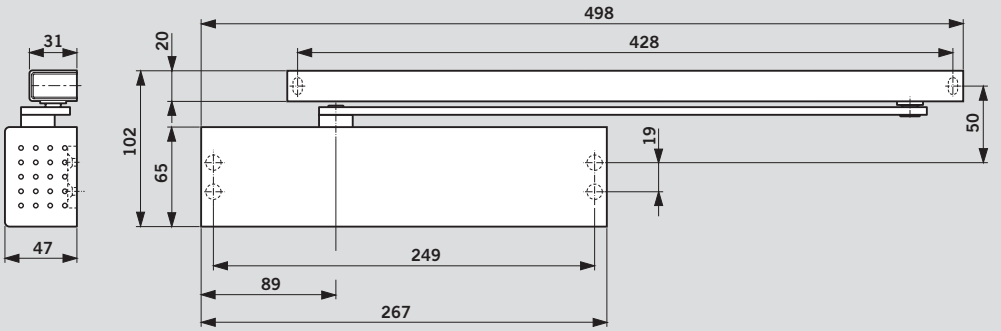
certifire

The TS 92/TS 91 complies with the requirements and/or recommendations of the following:
CERTIFIRE approved for fire doors ITT 120; Ref. CF 119

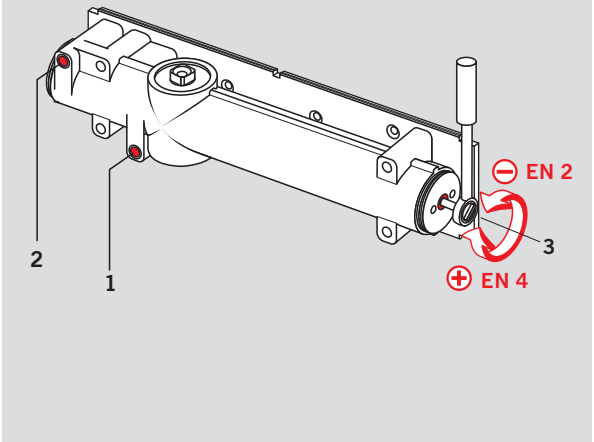
DORMA TS 92, Size EN 2 – 4

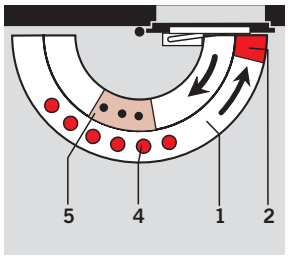


DORMA TS 91, Size EN 3



DORMA TS 92 B/G

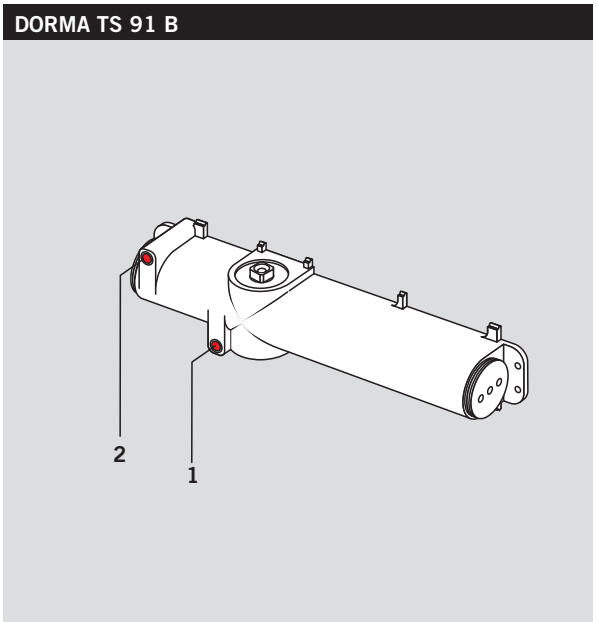


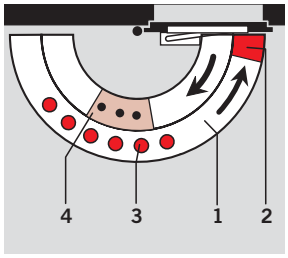


1 Variable closing speed in the range 180°–15°
2 Variable latching speed in the range 15°–0°
3 Infinitely variable closing force
4 Hold-open (option)
5 Cushioned limit stay (option)

The **closing speed** of the DORMA TS 92 is individually adjustable over two independent ranges at two separate valves.
The **closing force setting (spring strength)** for the relevant door width is adjusted with the DORMA TS 92 at an infinitely variable lateral adjustment screw.

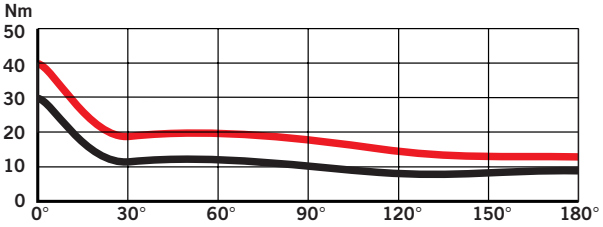
DORMA TS 91 B



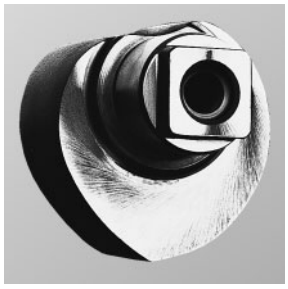


1 Infinitely variable closing speed in the range 180°–15°
2 Infinitely variable latching speed in the range 15°–0°
3 Hold-open (option)
4 Cushioned limit stay (option)

The **closing speed** of the DORMA TS 91 is individually adjustable over two independent ranges at two separate valves.
The **closing force (spring strength)** in the DORMA TS 91 is permanently set to size EN 3.

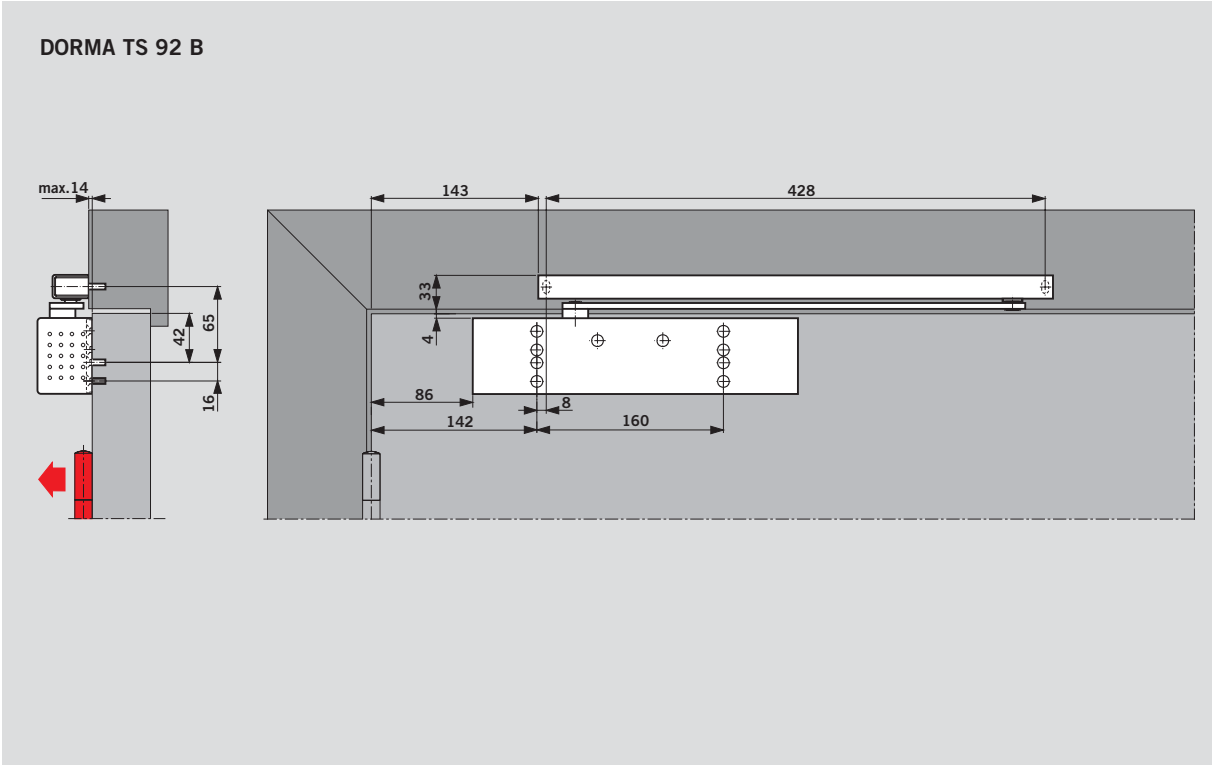


Force profile
Example: DORMA TS 92 B
Closing force setting:
size EN 4



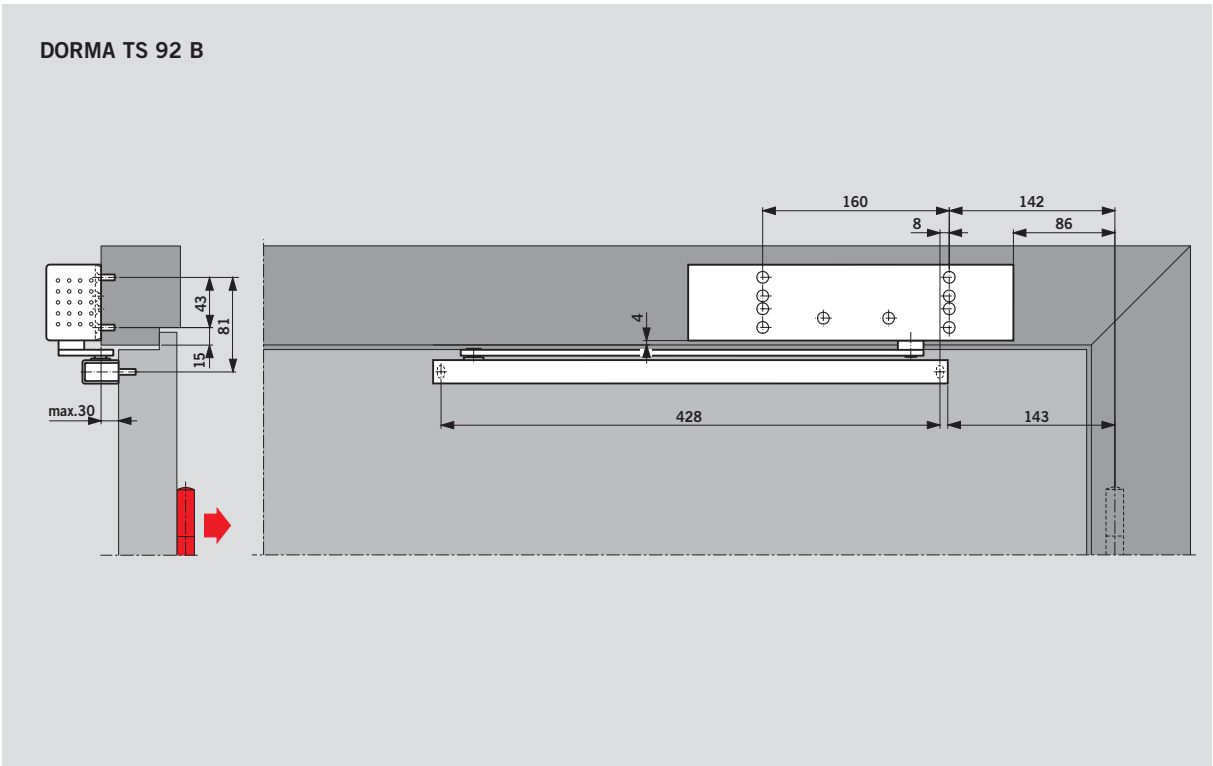
The heart-shaped cam and the linear drive mechanism which characterise all DORMA cam-action door closers produce a rapidly decreasing opening torque, so greatly reducing the amount of effort required. This means that even children, the elderly and the disabled can open doors with ease. The user-friendliness of the system is further enhanced by the reliable latching action achieved by the fact that the closing force only rises in the end phase of the cycle.

Door leaf fixing, pull side (example shows LH [ISO 6] door; RH [ISO 5] doors mirrored arrangement)



Provided the structural conditions allow, an opening angle of 180° is possible with this method of fixing.
In most cases, however, a wall recess will have to be provided for the door closer.

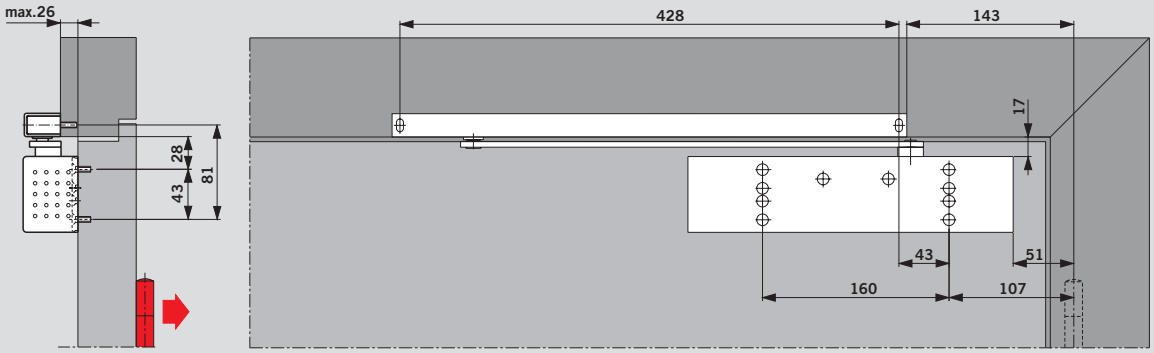
Transom fixing, push side (example shows LH [ISO 6] door; RH [ISO 5] doors mirrored arrangement)



Depending on the structural conditions, the door opening angle with this method of fixing is limited to approx. 120° to 145°.
In order to avoid damage to the door or door closer, users are recommended to install a cushioned backstay or a door stop.

Door leaf fixing, push side (example shows LH [ISO 6] door; RH [ISO 5] doors mirrored arrangement)

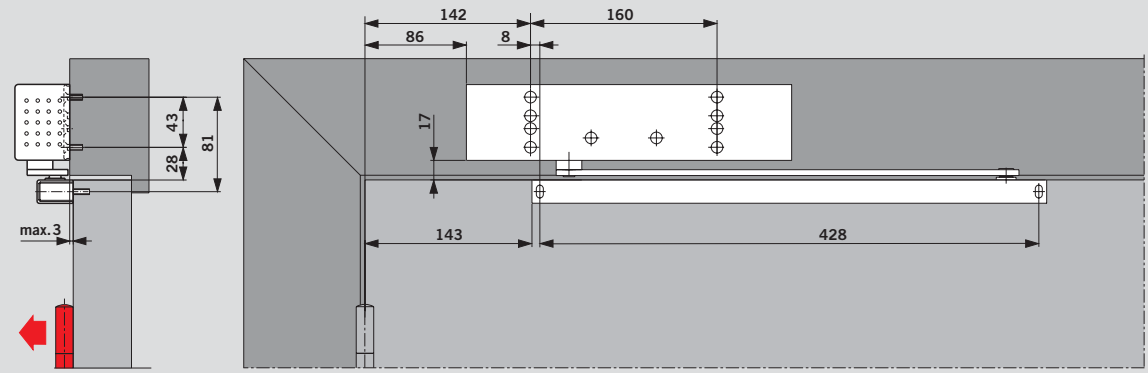
DORMA TS 92 G



Depending on the structural conditions, the door opening angle with this method of fixing is limited to approx. 120° to 145°. In order to avoid damage to the door or door closer, users are recommended to install a cushioned backstay or a door stop.

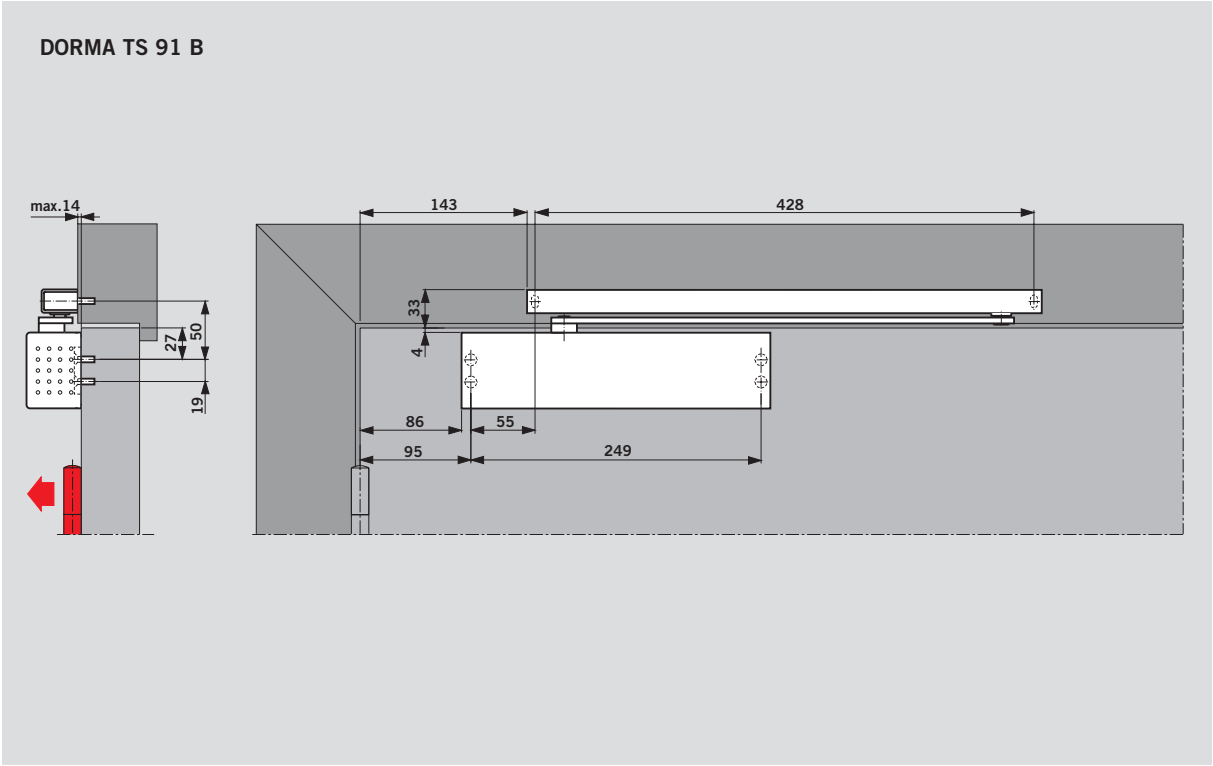
Transom fixing, pull side (example shows LH [ISO 6] door; RH [ISO 5] doors mirrored arrangement)

DORMA TS 92 G



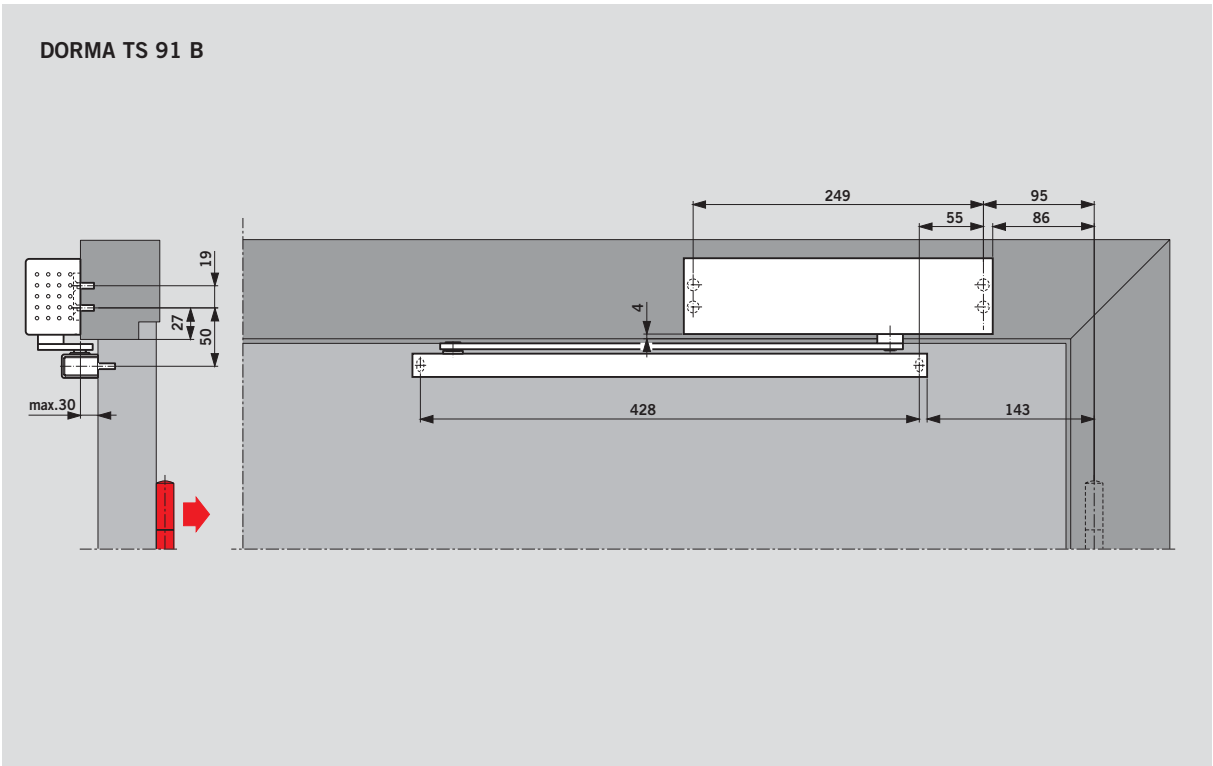
Provided the structural conditions allow, an opening angle of 180° is possible with this method of fixing.

Door leaf fixing, pull side (example shows LH [ISO 6] door; RH [ISO 5] doors mirrored arrangement)



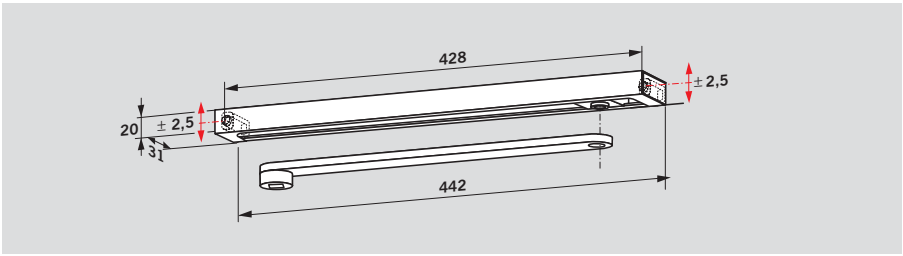
Provided the structural conditions allow, an opening angle of 180° is possible with this method of fixing.
In most cases, however, a wall recess will have to be provided for the door closer.

Transom fixing, push side (example shows LH [ISO 6] door; RH [ISO 5] doors mirrored arrangement)



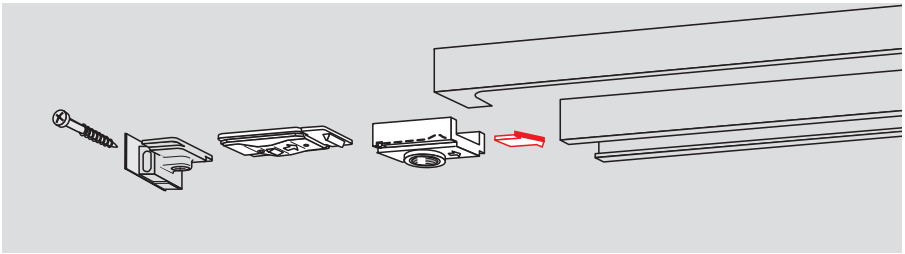
Depending on the structural conditions, the door opening angle with this method of fixing is limited to approx. 120° to 145°.
In order to avoid damage to the door or door closer, users are recommended to install a cushioned backstay or a door stop.

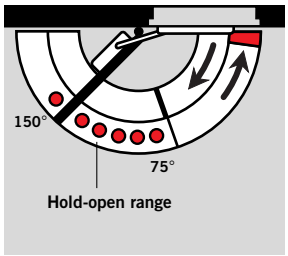
Slide channel



The **DORMA G-N** slide channel assembly comprises the main arm, slide channel, slide block, fixings, screws and end caps. The DORMA G-N slide channel is non-handed and can be combined with both door closers. Thanks to oblong holes in the fixing pads, it is possible to compensate for deviations in the drill hole pattern and to keep the door closer body and slide channel perfectly parallel.

Hold-open unit



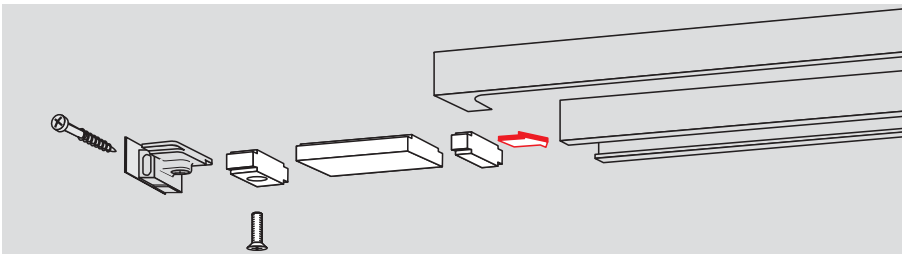


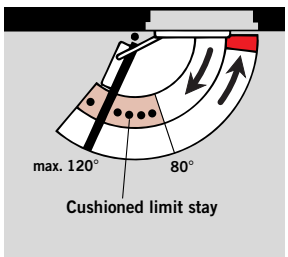
The DORMA RF mechanical hold-open unit ensures that doors are held open at precisely the correct angle – up to approx. 150° – without any fallback.

The hold-open unit can be switched on and off by the user as required, and the pull-off force can be adjusted to suit each individual door situation.

The DORMA RF hold-open unit is non-handed and can also be supplied for retrofitting to the slide channel at a later date.

Cushioned limit stay

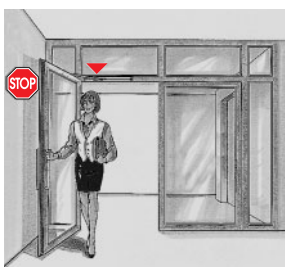


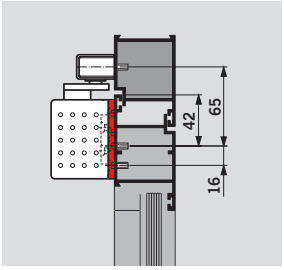


Cushioned limit stay simply slides into the slide channel. Adjustable between 80° and max. 120°. Also suitable for retrofitting.

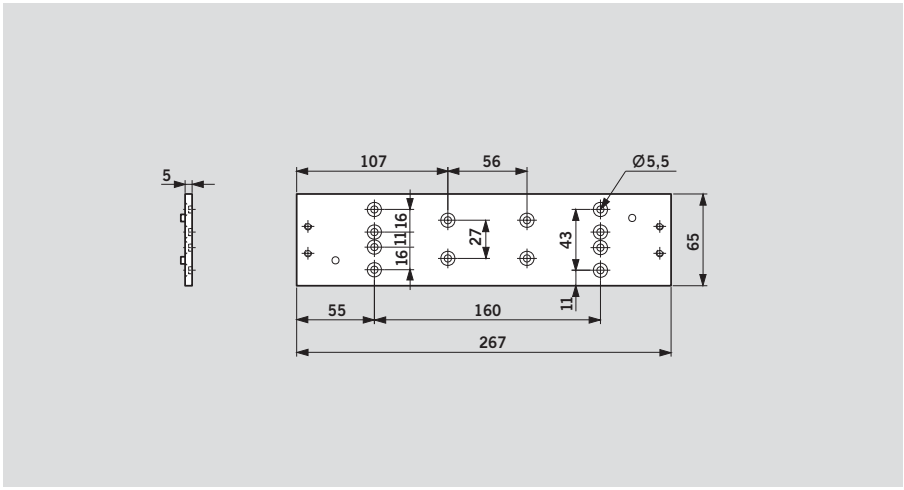
Fitting a cushioned limit stay prevents doors which are opened normally from impacting against adjacent walls.

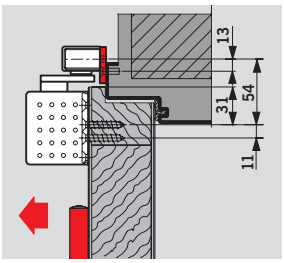
The cushioned limit stay is not an overload protection device and in many applications will not be a suitable substitute for a door stop.



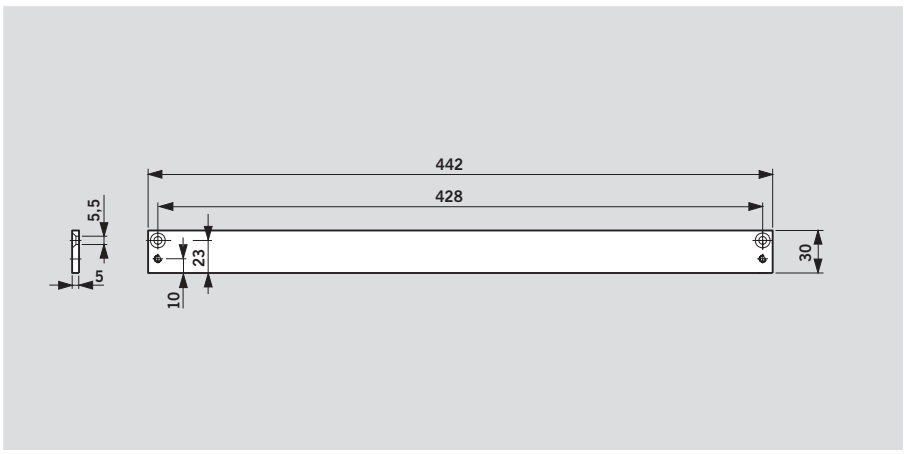


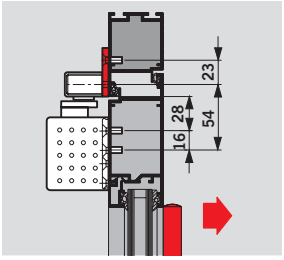
Mounting backplate for DORMA TS 91
For fixing to doors which provide no means of direct mounting.
Fixing hole pattern as per Supplement 1 to EN 1154.



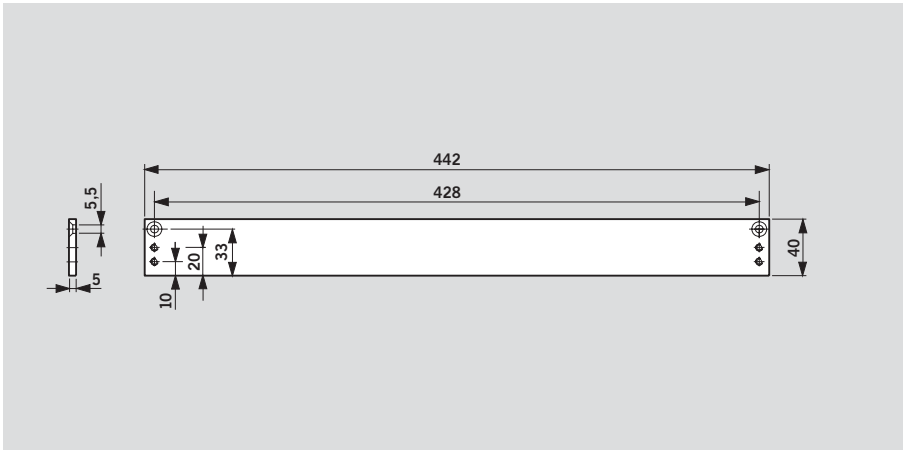


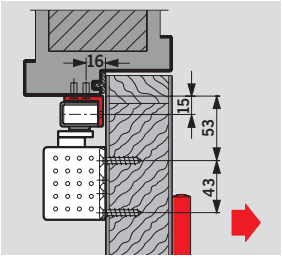
Mounting backplate 30 mm for G-N
For fixing the slide channel to the door frame where there is no means of direct mounting.



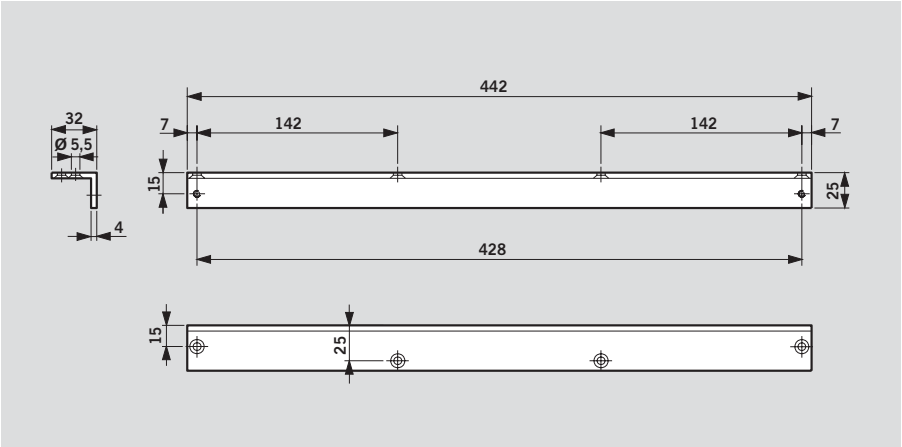


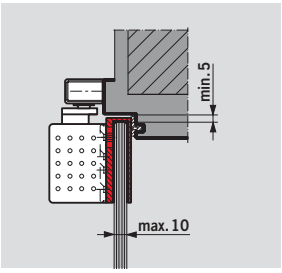
Mounting backplate 40 mm for G-N
For fixing the slide channel to the door frame where there is no means of direct mounting.



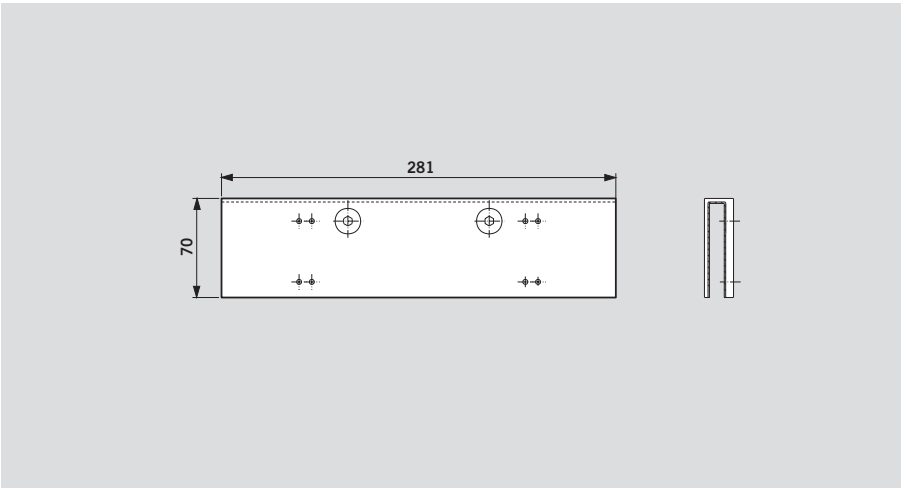


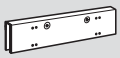
Angle bracket for G-N
For push-side fixing of the slide channel to door frames with a deep reveal.





Glass door saddle plate for DORMA TS 92
For fixing the closer to toughened glass doors
– No glass drilling or recessing required.



Standard equipment and accessories							
	Cam-action door closer TS 92 B Size EN 2–4 ■420201xx	**Cam-action door closer TS 92 G** Size EN 2–4 ■420301xx	**Cam-action door closer TS 91 B** Size EN 3 ■410201xx	Mounting backplate for G-N 30 mm 644000xx 40 mm 644100xx	Angle-bracket for G-N 644300xx	Cushioned limit stay for G-N 64530000	Hold-open unit for G-N 64510000
Slide channel G-N ▯ 640100xx	■ ▯	■ ▯	■ ▯	#	#	#	#
Mounting backplate for TS 91 410002xx			#				
Glass door saddle plate for TS 92  420001xx	#	#					

Order number:
■ = Closer body separate
▯ = Arm assembly separate
= Accessory

Colour	**xx**
Silver	01
Dark brown	03
White (RAL 9010)	10
White (RAL 9016)	11
Stainless steel “Design”	04
Polished brass	05

The TS 92 is also available in our “Design” surface finishes.

DORMA TS 92 B

Size EN 2-4
Cam action door closer conforming to EN 1154, carries the CE mark, Contur design, with rapidly decreasing opening torque/force. Door leaf fixing on the pull side, transom fixing on the push side. The closing speed is individually adjustable over two independent ranges at two separate valves. Mounting bracket with universal fixing hole system. Non-handed. Height-adjustable slide channel.

Accessories
☐ With retrofittable cushioned limit stay for integration in the standard slide channel.

☐ With retrofittable mechanical hold-open unit (RF), hold-open point adjustable between 75° and 150°. **Use of mechanical hold-open units is not permitted on fire and smoke check doors.**

☐ Mounting backplate for G-N
☐ Saddle plate for toughened glass doors

Colour
☐ silver
☐ white (sim. to RAL 9016)
☐ stainless steel
☐ polished brass
☐ special colour (sim. to RAL)

Make
DORMA TS 92 B, EN 2-4

DORMA TS 92 G

Size EN 2-4
Cam action door closer conforming to EN 1154, carries the CE mark, Contur design, with rapidly decreasing opening torque/force. Door leaf fixing on the push side, transom fixing on the pull side. The closing speed is individually adjustable over two independent ranges at two separate valves. Mounting bracket with universal fixing hole system. Non-handed. Height-adjustable slide channel.

Accessories
☐ With retrofittable cushioned limit stay for integration in the standard slide channel.

☐ With retrofittable mechanical hold-open unit (RF), hold-open point adjustable between 75° and 150°. **Use of mechanical hold-open units is not permitted on fire and smoke check doors.**

☐ Mounting backplate for G-N
☐ Angle bracket for G-N
☐ Saddle plate for toughened glass doors

Colour
☐ silver
☐ white (sim. to RAL 9016)
☐ stainless steel
☐ polished brass
☐ special colour (sim. to RAL)

Make
DORMA TS 92 G, EN 2-4

DORMA TS 91 B

Size EN 2-4
Cam action door closer conforming to EN 1154, carries the CE mark, Contur design, with rapidly decreasing opening torque/force. Door leaf fixing on the pull side, transom fixing on the push side. The closing speed is individually adjustable over two independent ranges at two separate valves. Non-handed. Height-adjustable slide channel.

Accessories
☐ With retrofittable cushioned limit stay for integration in the standard slide channel.

☐ With retrofittable mechanical hold-open unit (RF), hold-open point adjustable between 75° and 150°. **Use of mechanical hold-open units is not permitted on fire and smoke check doors.**

☐ Mounting backplate for TS 91
☐ Mounting backplate for G-N

Colour
☐ silver
☐ white (sim. to RAL 9016)
☐ special colour (sim. to RAL)

Make
DORMA TS 91 B, EN 3

www.dorma.com

Door Control

Automatic

Glass Fittings and Accessories

Security/ Time and Access (STA)

Movable Walls

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WN 053 126, 05/06, TS 92/TS 91 Contur, GB, X. DD. xx/06 · Subject to change without notice