



Door Closer

# DORMA TS 68

The ideal low-cost solution for standard doors

With the TS 68, DORMA has developed a low-cost door closer which can be universally used on all common door types. It is particularly quick and easy to install - and does not require a mounting backplate.

The closer arm's power shoe and changes in templating allow easy selection of the closing force to suit various door sizes.



Plus points

For the trade

- The low cost solution for standard doors.
- Just one model for all mounting positions.

For the installer

- Non-handed unit.
- Quick and easy to install.
- Fixes perfectly to all door types without the need for a mounting backplate.

For the specifier/architect

- Compact design.
- Inexpensive, proven reliability.

For the user

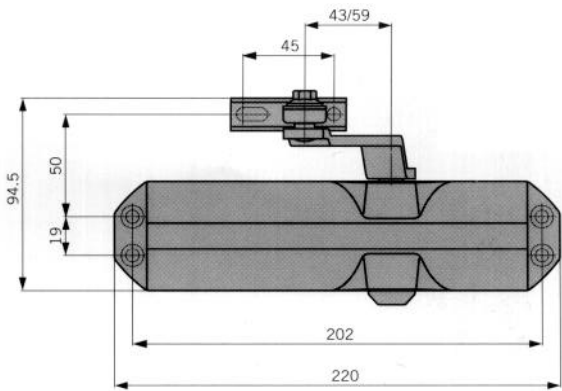
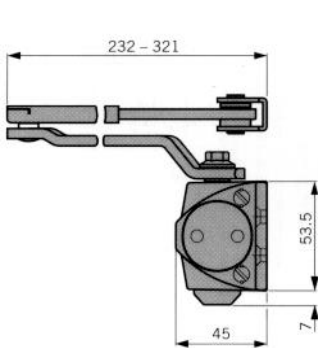
- Closing cycle largely unaffected by temperature changes.
- Two valves for optimum closing speed and reliable latching action.

Data and features		TS 68
Selectable closing force (variable via arm power shoe and templating)	Size	EN 2/3/4
Door width	≤ 1100 mm	●
External doors, outward opening		–
Non-handed		●
Arm	Slimline	●
	Slide channel	–
Closing speed adjustable via 2 independent valves	180° – 15° 15° – 0°	●
Backcheck		–
Delayed action		–
Hold-open		○
Weight in kg		1.4
Dimensions in mm	Length	220
	Overall depth	45
	Height	53.5

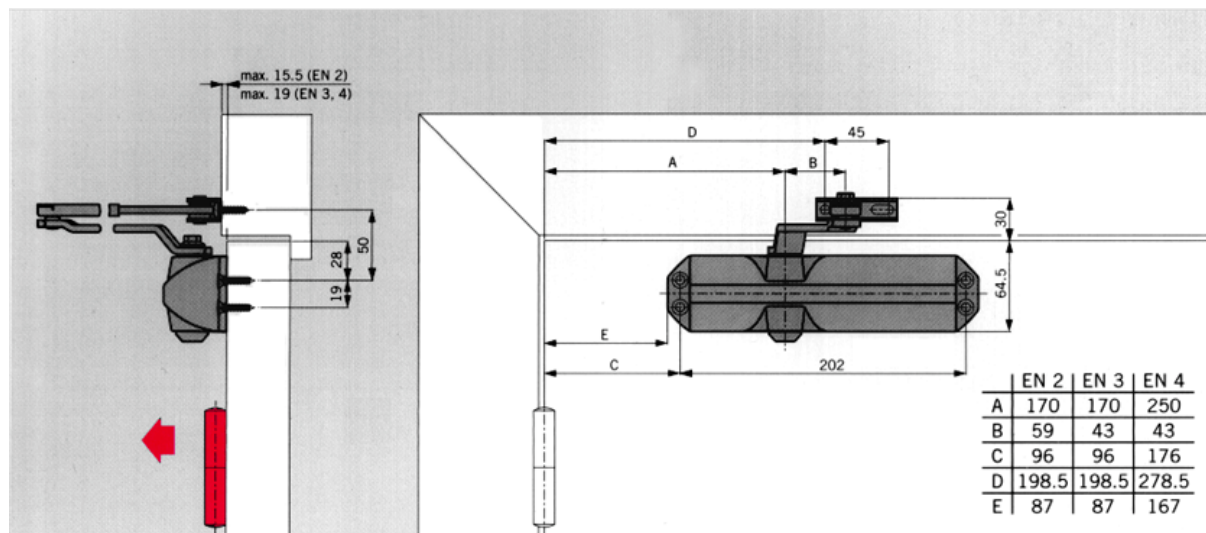
● Yes – no ○ option

Standard and optional functions

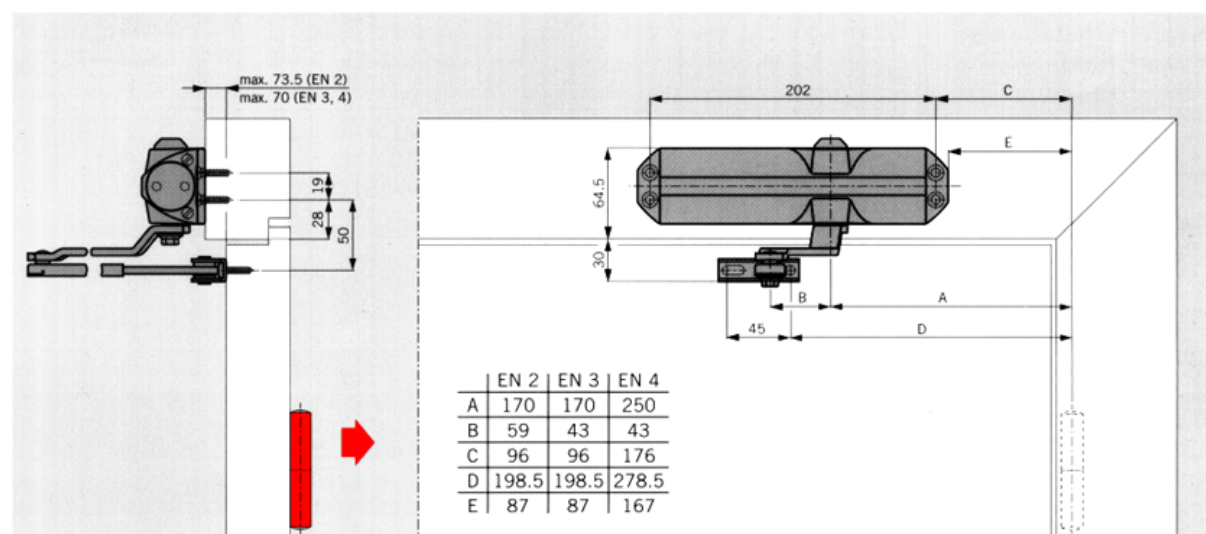
- 1 Adjustable closing speed in the range 180° - 15°.
- 2 Adjustable closing speed in the range 15° - 0°.
- 3 Hold-open range with hold-open arm model (optional extra).



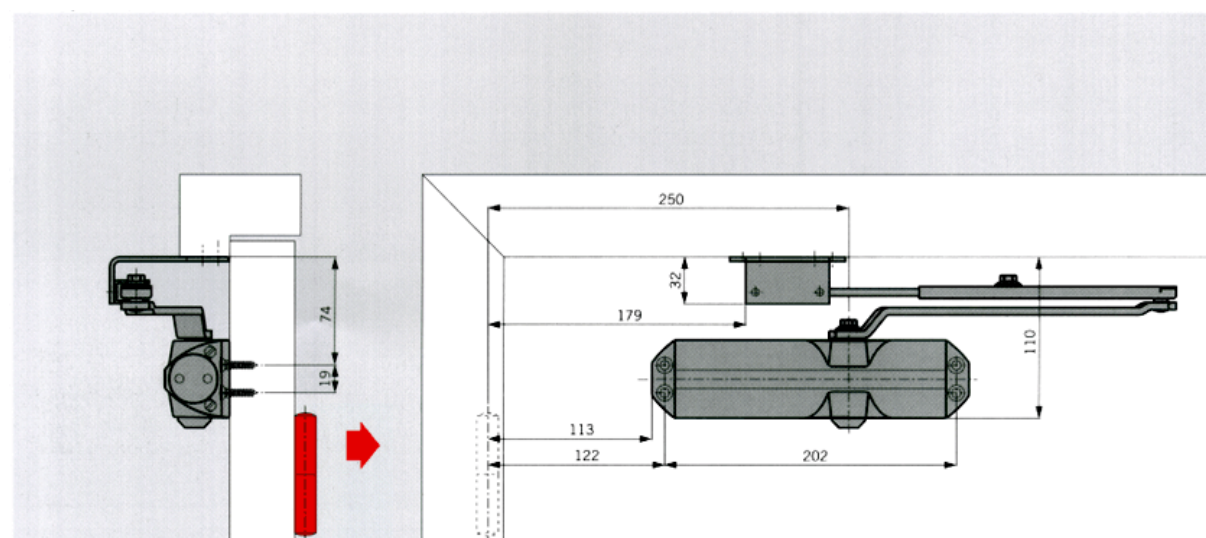
## Door-leaf fixing, pull side



## Frame fixing, push side



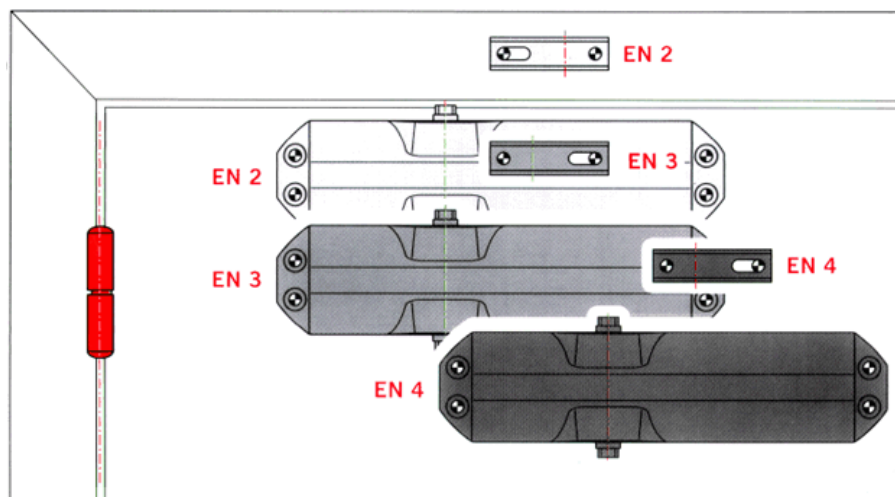
## Parallel arm fixing, push side



### Closing force settings

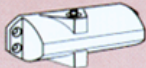





Door width	Size setting
≤ 850	EN 2
≤ 950	EN 3
≤ 1100	EN 4



The TS 68's size setting is selected for the door width by moving the closer body and/or turning the arm power shoe.



### Standard equipment and accessories

Colour	xx
silver	01
brass	02
dark brown	03
special colour	09

Door closer TS 68	Standard arm	Hold-open arm	Parallel arm bracket
			 280066xx
Size EN 2/3/4	 664001xx	 664002xx	#

Order-Number:  = Closer with arm, complete  
 = Accessory

### Specification text

Rack-and-pinion door closer with selectable closing force, size EN 2, 3 and 4; adjustable closing speed in two independent ranges. Non-handed.

#### Model

- ☐ with standard arm  
☐ with hold-open

#### Colour

- ☐ silver  
☐ dark brown  
☐ brass  
☐ special colour \_\_  
(similar to RAL\_\_)

**Make** DORMA TS 68

Subject to change without notice

**DORMA GmbH + Co. KG**  
Postfach 40 09  
D-58247 Ennepetal  
Tel. 0 23 33/7 93-0  
Fax 0 23 33/79 34 95  
www.dorma.de



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## CERTIFICATE OF APPROVAL

### No. CF 289

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This is to certify that, in accordance with  
CERTIFIRE's Rules for Certification,  
the undermentioned products of

### **DORMA UK LIMITED**

**Wilbury Way, Hitchin, Hertfordshire, SG4 0AB**  
**Tel: 01462 477600 Fax: 01462 477601**

have been assessed against the requirements of the Technical Schedule(s)  
denoted below and are approved for use subject to the conditions  
appended hereto:

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#### **CERTIFIED PRODUCT**

**DORMA TS68 overhead door  
closers**

#### **TECHNICAL SCHEDULE**

**TS34 - The Contribution of  
Controlled Door Closing  
Devices and Accessories to  
Fire Resisting Doorsets**

Signed and sealed for and on behalf of CERTIFIRE

Kenneth J Knight  
Chairman - Management Council

Issued: 7<sup>th</sup> August 2002  
Revised: 27<sup>th</sup> June 2005  
Valid to: 26<sup>th</sup> June 2010





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## CERTIFICATE No. CF 289

### DORMA UK LIMITED

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#### DORMA TS68 OVERHEAD DOOR CLOSERS

1. **DORMA TS68** Overhead Door Closers are adjustable strength (by position) rack and pinion overhead door closers. This approval relates to their use with the following door assemblies:-  
**Latched and unlatched, intumescent sealed door assemblies consisting of timber faced and edged leaves with timber, cellulosic or mineral cores in timber frames having a fire resistance up to 120 minutes (Code ITT).**
2. This certification is designed to demonstrate compliance of the product or system specifically with Approved Document B (England and Wales), Section D of the Technical Standards (Scotland), Technical Booklet E (N. Ireland). If compliance is required to other regulatory or guidance documents there may be additional considerations or conflict to be taken into account.
3. The closers are approved on the basis of:
  - i) Initial type testing to EN 1154 and EN1634-1
  - ii) An appraisal against TS34
  - iii) Production surveillance under ISO 9001:2000
  - iv) Ongoing audit testing in accordance with EN 1154 requirements
4. This approval is applicable only to the specified closers used with door assemblies of proven fire resistance (as defined in EN 1634-1) and having power ratings appropriate to the leaf sizes subject to a minimum size 3 (as specified in BS EN 1154).
5. The approval relates to on going production. Product and/or its immediate packaging is identified with the manufacturers' name, the product name or number, the CERTIFIRE name or name and mark, together with the CERTIFIRE certificate number and application where appropriate.

Page 2 of 4 Signed

Issued: 7<sup>th</sup> August 2002  
Revised: 27<sup>th</sup> June 2005  
Valid to: 26<sup>th</sup> June 2010



## CERTIFICATE No. CF 289 DORMA UK LIMITED

### DORMA TS68 OVERHEAD DOOR CLOSERS

5. The following tables show acceptable doorsets types and fire resistance periods for **DORMA TS68** closers:

**Table 1.** For doorsets to BS 476: Part 22: 1987

Fire resistance performance as required by Approved Document B	MM	IMM	TT	ITT	ITM	ITC
FD20	X	X	X	✓	X	X
FD30	X	X	X	✓	X	X
FD60	X	X	X	✓	X	X
FD90	X	X	X	✓	X	X
FD120	X	X	X	✓	X	X
FD240	X	X	X	X	X	X

**Table 2.** For doorsets to EN 1634-1

Classification to prEN13501-2	MM	IMM	TT	ITT	ITM	ITC
E 20	X	X	X	✓	X	X
EI 20	X	X	X	✓	X	X
E 30	X	X	X	✓	X	X
EI 30	X	X	X	✓	X	X
E 60	X	X	X	✓	X	X
EI 60	X	X	X	✓	X	X
E 90	X	X	X	✓	X	X
EI 90	X	X	X	✓	X	X
E 120	X	X	X	✓	X	X
EI 120	X	X	X	✓	X	X
E 240	X	X	X	X	X	X
EI 240	X	X	X	X	X	X

See CERTIFIRE Technical Schedules for designation of doorset types i.e. TT, ITT etc.



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## CERTIFICATE No. CF 289

### DORMA UK LIMITED

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#### DORMA TS68 OVERHEAD DOOR CLOSERS

##### **Scope of Approval for TS68 closers:**

Doors may not include uninsulated glass above 20% of their total area

The closers may not be fitted to metallic doorsets

The closers may not be fitted to timber doorsets without intumescent protection

##### **Classification code for TS68 closers**

The above approval provides the following classification:

3	8	4 3	1	1	2
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##### **Further Information**

Further information regarding the details contained in this data sheet may be obtained from DORMA UK Limited (Tel: 01462 477600).

Further information regarding CERTIFIRE certification and other approved products can be obtained from CERTIFIRE (Tel: 01925 646777).

Page 4 of 4 Signed

A handwritten signature in black ink, enclosed within a rectangular box.

Issued: 7<sup>th</sup> August 2002  
Revised: 27<sup>th</sup> June 2005  
Valid to: 26<sup>th</sup> June 2010



Door Closer

# DORMA TS 71

The inexpensive solution for standard doors – with quality assured

With the TS 71, DORMA has developed a door closer that rounds off its ClassicLine series perfectly. The ease and speed with which it can be fixed, the fact that its spring strength can be so easily adapted to the door size – by simply turning round the hinge plate – and

its competitive price should make it the ideal choice for your application.



Benefits

- For the trade**
- Increased stocking flexibility thanks to use of the standard ClassicLine series arm.
  - Complements the ClassicLine series as a competitive model for standard doors.
- For the installer/fabricator**
- Non-handed design.
  - Easy and quick to fix.

- For the architect/specifier**
- Competitive and reliable.
  - Compact construction combined with classic design.
- For the user**
- Constant closing action virtually unaffected by temperature fluctuations.
  - Optimum closing speed adjustment with two regulating valves.
  - Reliable closing with adjustable latching action.

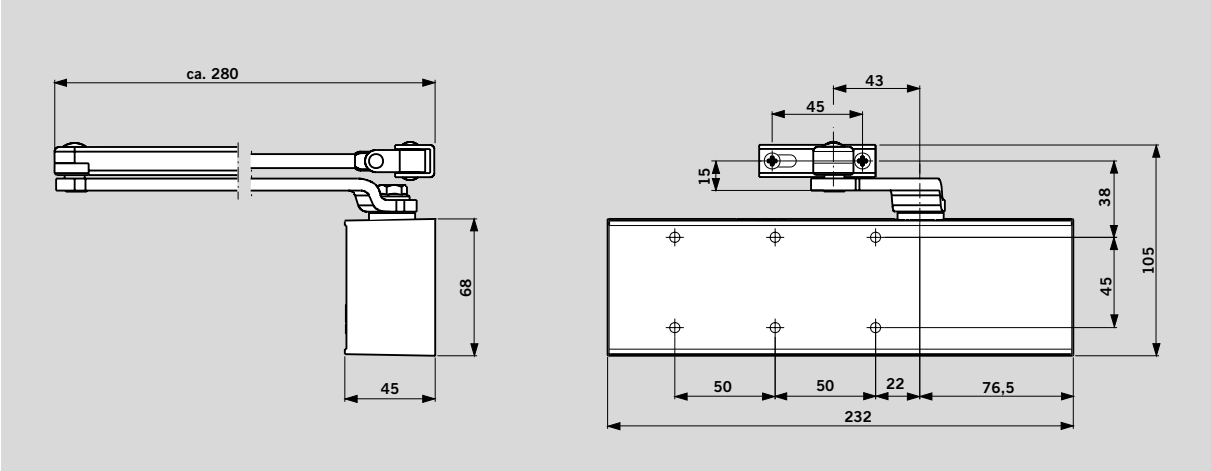
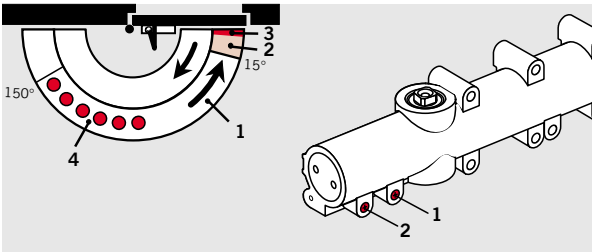
Data and features		TS 71
Spring strength (adjustable by turning round the hinge plate)	Size	EN 3/4
Standard doors	≤ 1100 mm <sup>1)</sup>	●
External doors, outward opening		–
Fire doors		–
Non-handed		●
Arm type	Standard	●
	Slide channel	–
Closing speed adjustable at 2 separate valves	180° – 15°	●
	15° – 0°	●
Latching action adjustable (by arm)		●
Backcheck		–
Delayed action		–
Hold-open		○
Weight in kg		1.2
Dimensions in mm	Length	232
	Overall depth	45
	Height	68
Door closer tested and approved to EN 1154		●

● Yes – No ○ Option

<sup>1)</sup>With parallel-arm fixing, the closing force is approx. 20 Nm (for doors up to 950 mm)

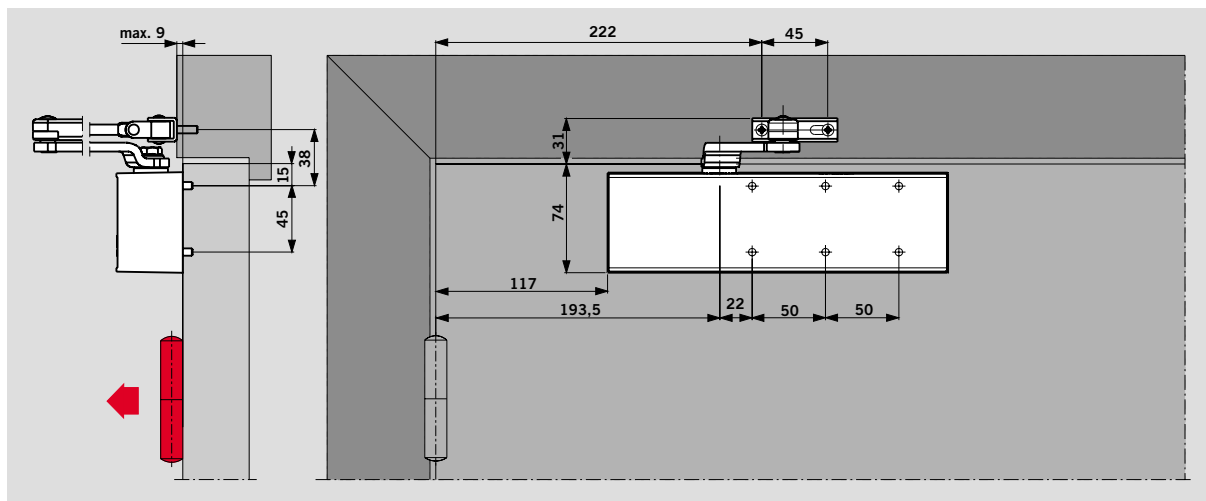
Standard and optional functions

- 1 Closing speed adjustable in the range 180° – 15°.
- 2 Closing speed adjustable in the range 15° – 0°.
- 3 Latching action.
- 4 Hold-open range for model with hold-open arm (optional extra).



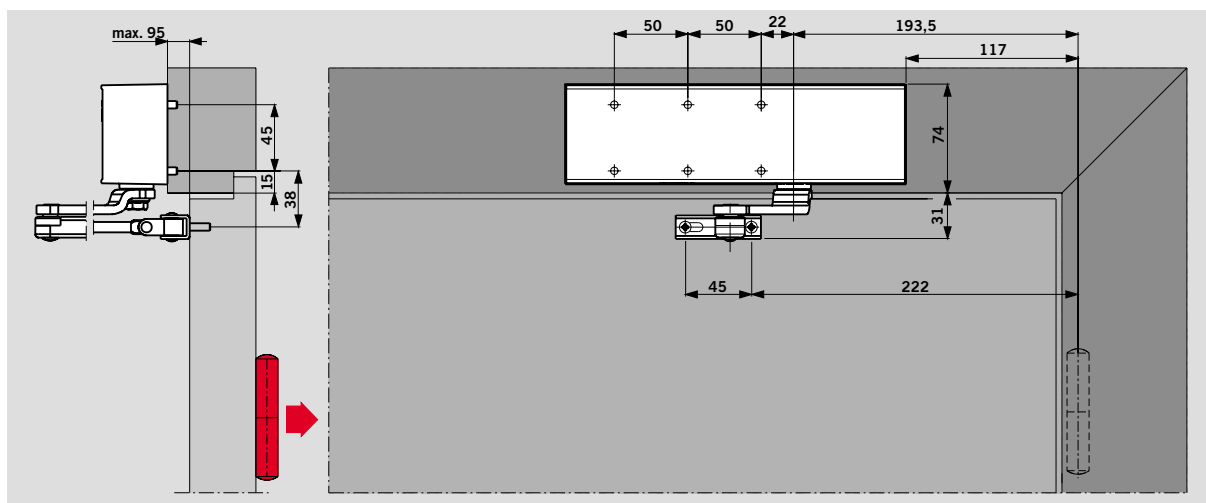
## Door leaf fixing, pull side

(Example refers to left-hand [ISO 6] door; mirror image applies to right-hand [ISO 5] door)



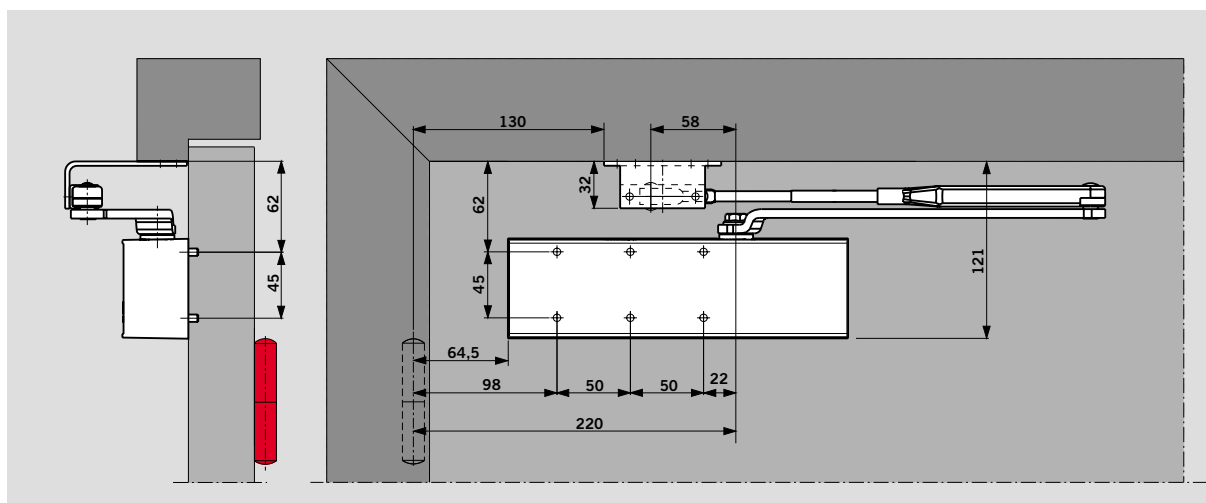
## Transom fixing (overhead frame installation), push side

(Example refers to left-hand [ISO 6] door; mirror image applies to right-hand [ISO 5] door)



## Parallel-arm fixing, push side

(Example refers to left-hand [ISO 6] door; mirror image applies to right-hand [ISO 5] door). Parallel-arm bracket (accessory) necessary

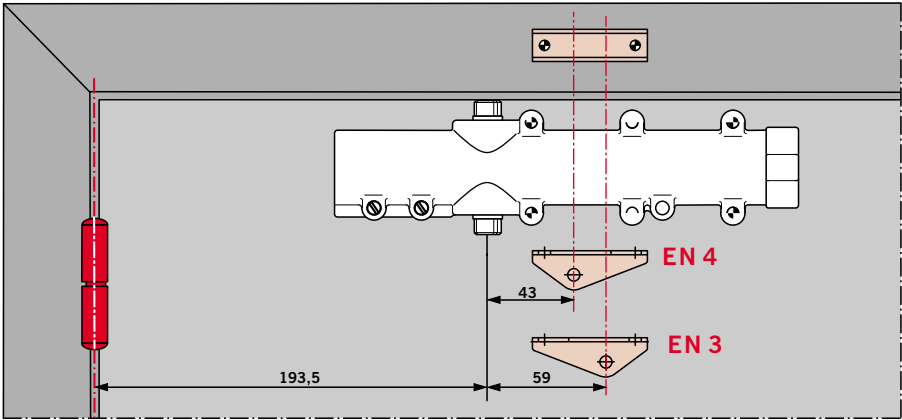


With this fixing method, the closing force is approx. 20 Nm (for doors up to 950 mm)

Closing force settings

Door width	Setting
≤ 950	EN 3
≤ 1100	EN 4

With the TS 71, the spring strength (size setting) of the closer is adjusted to the door width concerned by merely turning round the hinge plate.



Standard equipment and accessories

Order No.:

■ = Closer body with arm and fixing bracket for parallel-arm assembly  
# = Accessory

Colour	xx
Silver	01
Dark brown	03
White (sim. to RAL 9010)	10
White (sim. to RAL 9016)	11
Special colour	09

Closer body TS 71	Standard arm	Parallel-arm bracket	Hold-open arm	Mounting backplate
			220025xx	220021xx
Size EN 3/4 (PA Size 3)	■ 222124xx		#	#

Specification text

Rack-and-pinion door closer with adjustable closing force, size EN 3 or 4, closing speed adjustable in two independent ranges, with adjustable latching action. Non-handed. Tested and approved to EN 1154.

**Model**  
☐ With standard arm and fixing bracket for parallel-arm assembly

**Accessories**  
☐ Hold-open arm  
☐ Mounting backplate

**Colour**  
☐ Silver  
☐ Dark brown  
☐ White (sim. to RAL 9010)  
☐ White (sim. to RAL 9016)  
☐ Special colour \_\_\_\_\_ (sim. to RAL \_\_\_\_\_)

**Make** DORMA TS 71

**DORMA Door Controls Ltd**  
DORMA Trading Park  
Staffa Road  
GB-London E10 7QX  
Tel. 020 8558 8411  
Fax 020 8558 6122  
Email:  
hardware@dorma-uk.co.uk  
www.dorma-uk.co.uk

**DORMA Door Controls Ltd**  
19 Sandyford Office Park  
Foxrock  
IRL-Dublin 18  
Tel. 01 295 8280/1/2  
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dormadublin@dorma.com

**DORMA GmbH + Co. KG**  
P.O. Box 4009  
D-58247 Ennepetal  
Germany  
Tel. +49(0)23 33/793-0  
Fax +49(0)23 33/79 34 95  
www.dorma.com



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## **CERTIFICATE OF APPROVAL**

### **No CF 268**

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This is to certify that, in accordance with  
**CERTIFIRE's Rules for Certification**  
The undermentioned products of

**DORMA UK LIMITED**

**Wilbury Way, Hitchin, Hertfordshire SG4 0AB**  
**Tel: 01462 477600 Fax: 01462 477601**

Have been assessed against the requirements of the Technical Schedule(s)  
denoted below and are approved for use subject to the conditions  
appended hereto:

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**CERTIFIED PRODUCT**

**TS71 & TS72VBC**  
**Overhead Door Closers**

**TECHNICAL SCHEDULE**

**TS 34 - The Contribution Of**  
**Controlled Door Closing**  
**Devices And Accessories**  
**To Fire Resisting Doorsets**

**Signed and sealed for and on behalf of CERTIFIRE**

Sir Ken Knight  
Chairman - Management Council

Issued: 11<sup>th</sup> December 2001  
Reissued: 19<sup>th</sup> February 2007  
Valid to: 18<sup>th</sup> February 2012

Page 1 of 3





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## CERTIFICATE No CF 268

### DORMA UK LIMITED

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#### TS71 & TS72VBC OVERHEAD DOOR CLOSERS

1. Dorma Door Controls TS71 & TS72VBC overhead door closers comprise a range of closers. This approval applies to the TS71 and TS72VBC models but excludes mechanical hold open variants. This approval only applies to door leaf mounted closers. It relates to their use with the following door assemblies:

**Latched and unlatched, intumescent sealed door assemblies consisting of timber faced and edged leaves with timber, cellulosic or mineral cores in timber frames having fire resistances up to 120 minutes (Code ITT).**

**Latched and unlatched door assemblies consisting of metallic faced and edged leaves in metallic frames having fire resistances up to 240 minutes (Code MM and IMM).**

2. This certification is designed to demonstrate compliance of the product or system specifically with Approved Document B (England and Wales), Section D of the Technical Standards (Scotland) and Technical Booklet E (N. Ireland). If compliance is required to other regulatory or guidance documents there may be additional considerations or conflict to be taken into account.
3. The closers are approved on the basis of:
- i) Initial type testing to EN 1154 and EN1634-1
  - ii) An appraisal against TS27 and TS28
  - iii) Production surveillance under ISO 9001:2000
  - iv) Ongoing audit testing in accordance with EN 1154 requirements
4. This approval is applicable only to the specified closers used with door assemblies of proven fire resistance (as defined in BS476: Part 22: 1987 or BS EN 1634-1:2000) and having power ratings appropriate to the leaf sizes subject to a minimum size 3 (as specified in BS EN 1154: 1997).
5. The approval relates to on going production. Product and/or its immediate packaging is identified with the manufacturers' name, the product name or number, the CERTIFIRE name or name and mark, together with the CERTIFIRE certificate number and application where appropriate.



## CERTIFICATE No CF 268

### DORMA UK LIMITED

#### TS71 & TS72VBC OVERHEAD DOOR CLOSERS

5. The following tables show acceptable doorsets types and fire resistance periods:

For doorsets to BS 476: Part 22: 1987

Fire resistance performance as required by Approved Document B	MM	IMM	TT	ITT	ITM	ITC
FD20	✓	✓	✗	✓	✗	✗
FD30	✓	✓	✗	✓	✗	✗
FD60	✓	✓	✗	✓	✗	✗
FD90	✓	✓	✗	✓	✗	✗
FD120	✓	✓	✗	✓	✗	✗
FD180	✓	✓	✗	✗	✗	✗
FD240	✓	✓	✗	✗	✗	✗

For doorsets to EN 1634-1

Classification to EN13501-2	MM	IMM	TT	ITT	ITM	ITC
E 20	✓	✓	✗	✓	✗	✗
EI 20	✓	✓	✗	✓	✗	✗
E 30	✓	✓	✗	✓	✗	✗
EI 30	✓	✓	✗	✓	✗	✗
E60	✓	✓	✗	✓	✗	✗
EI 60	✓	✓	✗	✓	✗	✗
E 90	✓	✓	✗	✓	✗	✗
EI 90	✓	✓	✗	✓	✗	✗
E 120	✓	✓	✗	✓	✗	✗
EI 120	✓	✓	✗	✓	✗	✗
E 240	✓	✓	✗	✗	✗	✗

See CERTIFIRE Technical Schedules for designation of doorset types i.e. TT, ITT etc.

#### Scope of Approval:

The closers may not be fitted to timber doorsets without leaf/frame edge intumescent protection.

#### Classification code

The above approval provides the following classifications:

Dorma TS71 and TS72VBC

4	8	3 4	1	1	2
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#### Further Information

Further information regarding the details contained in this data sheet may be obtained from Dorma UK Limited (Tel: 01462 477600).

Further information regarding CERTIFIRE certification and other approved products can be obtained from CERTIFIRE (Tel: 01925 646777).



Easy-action  
Door Closer

# DORMA TS 83



## The multi-function, multi-purpose door closer

### Outstanding versatility. Quality assured.

#### Tested to EN 1154.

Decades of experience have gone into the development of the DORMA TS 83. The result is user comfort coupled with outstanding versatility. It can be adjusted to suit almost all types of door. Additional anti-corrosion protection for exposed or aggressive conditions is available to special order.

Fixing couldn't be easier and last but not least – it's engineered for excellence.



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

### Plus points ...

#### ... for the trade

- Streamlined product range means low inventory costs and reduced stocking requirement.
- Comprehensive choice of accessories provides practical and effective solutions to meet special applications.

#### ... for the specifier/architect

- Compact closer design and sturdy flat-form arm assembly.
- Wide range of standard functions supplemented by optional extras.
- Suitable for fire doors. (CERTIFIRE approved ITT Ref. CF 118)

#### ... for the installer

- Easy to fix.
- Can be "tailored" to the requirements of the door by simple adjustment.
- Just one model for RH (ISO 5) and LH (ISO 6) doors and for standard and frame/lintel fixing and parallel arm.
- Spring strength range EN 2–6 to suit virtually every application.

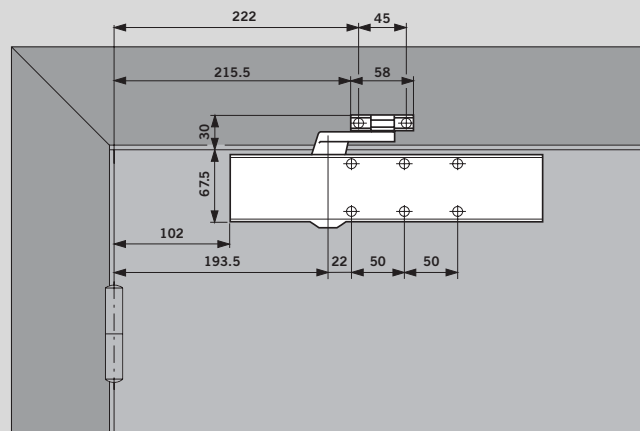
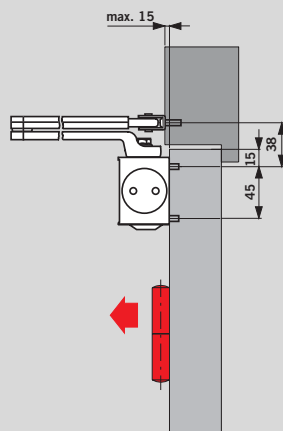
#### ... for the user

- Optimum wall and door protection thanks to "thinking" backcheck.
- Closing speed virtually unaffected by temperature fluctuations.
- High mechanical efficiency gives easy-action opening.

### Applications and fixing ...

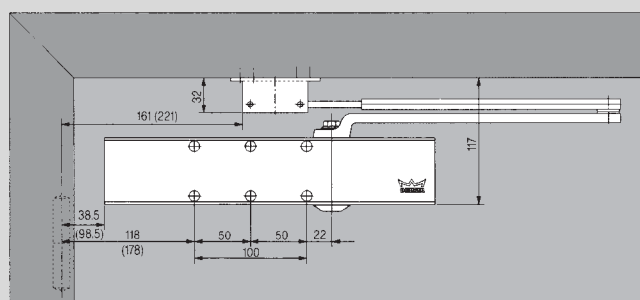
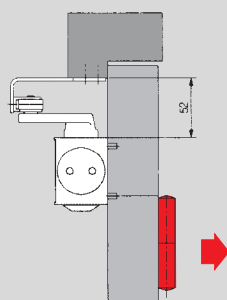
#### ... on the pull side

Door leaf fixing (standard installation)



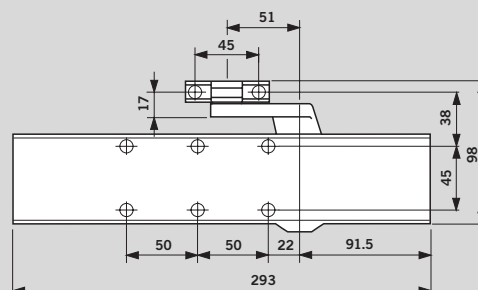
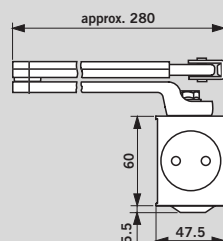
#### ... on the push side

Door leaf fixing (parallel arm installation)  
With parallel arm application, the backcheck comes in later at between 85° and 90°, depending on the door thickness and projection of the hinge used; the delayed action, on the other hand, releases the door at an earlier point in its closing sweep.



#### Examples

Installation for the opposite hand is a mirror image of the above illustrations.



The TS 83 conforms to most recognised international standards and complies with the requirements and/or recommendations of the following: CERTIFIRE approved for fire doors ITT; Ref. CF 118  
Closer weight: 3.3 kg

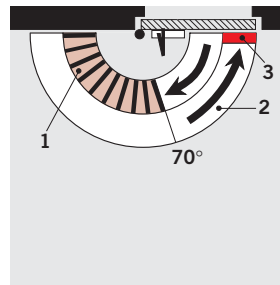
## Standard functions

### With “thinking” backcheck –

Thanks to an innovative design concept, the resistance developed by this backcheck system is directly proportional to door acceleration as the door is opened beyond approx. 70°. It is almost imperceptible when the door is opened slowly. However, if the door is opened roughly, the backcheck responds in equal measure.

And if the door should be flung open at speed – whether deliberately, thoughtlessly, accidentally or as a result of a gust of wind – the backcheck reacts at full strength, protecting the wall and door from damage.

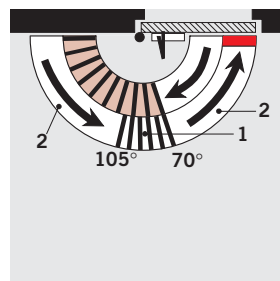
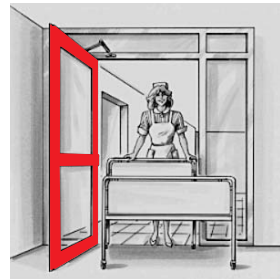
**If no backcheck function is required, the system can simply be switched off.**



### And with delayed action –

The integrated delayed action enables the closing cycle to be retarded within an adjustable range so that

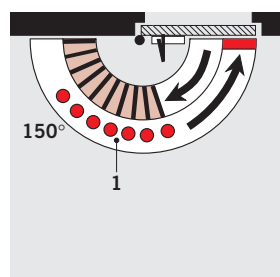
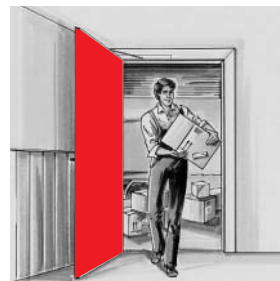
disabled persons, mothers with prams and people carrying bulky items are able to pass through the door without difficulty.



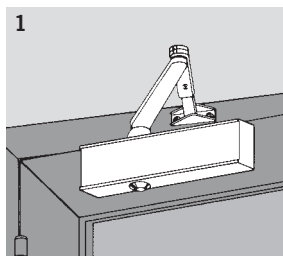
### With optional hold-open arm –

Combining the TS 83 with a hold-open arm enables the door to be held open at an appropriate angle (up to

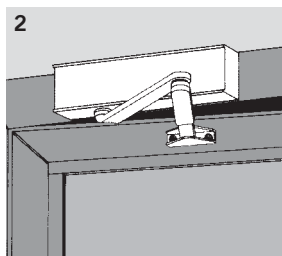
approx. 150°). The hold-open function of the standard hold-open arm can be switched on and off by the user by simply pressing a pushbutton.



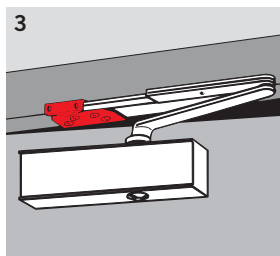
**Hold-open arms are not approved for fire doors.**



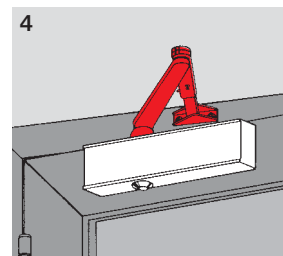
**Standard installation**  
Art. No. 8300



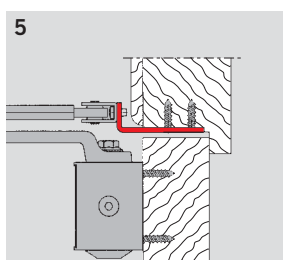
**Frame installation**  
Art. No. 8300



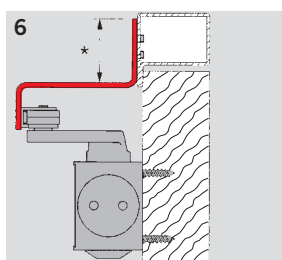
**Parallel arm installation**  
Art. No. 8300  
(The above bracket is supplied with every TS 83 standard door closer.)



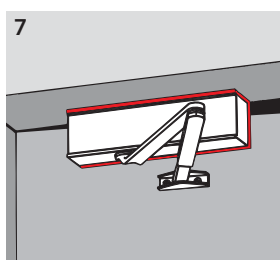
**Hold-open arm installation**  
Art. No. 8301  
Adjustable for hold-open up to 150°. Can be switched off to act as a standard arm.



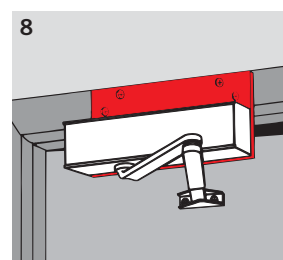
**Soffit bracket and arm for standard installation with shaped architrave**  
Art. No. 8382/1



**Parallel arm bracket with upstand**  
(\*upstand 35 or 60 mm)  
Art. No. 8382/2



**Angle bracket installation**  
Frame installation for outward opening doors with extra deep reveals.  
Art. No. 8357



**Drop plate installation**  
For installation on frame (or door) when direct fixing of closer is not possible.  
Art. No. 8359

#### Specification text

DORMA TS 83 rack and pinion door closer; non-handed; hydraulic control from 180°; adjustable spring strength EN 2–6; separate sweep and latch valve; self-adjusting backcheck and adjustable delayed action. Suitable for standard or frame installation on doors up to 1400 mm wide.

Parallel arm installation suitable for doors up to 1200 mm wide.

Specify finish: silver, dark bronze, gold lacquer. A range of colours is also available.

For architectural electro-plated finishes see separate brochure.

**DORMA Door Controls Ltd.**  
DORMA Trading Park  
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GB-London E10 7QX  
Tel. 020 8558 8411  
Fax 020 8558 6122  
E-mail:  
hardware@dorma-uk.co.uk

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## CERTIFICATE OF APPROVAL

### No. CF 118

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This is to certify that, in accordance with  
CERTIFIRE's Rules for Certification  
The undermentioned products of

### DORMA UK LIMITED

**Wilbury Way, Hitchin, Hertfordshire SG4 0AB**  
**Tel: 01462 477600 Fax: 01462 477601**

Have been assessed against the requirements of the Technical Schedule(s)  
denoted below and are approved for use subject to the conditions  
appended hereto:

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#### CERTIFIED PRODUCT

**Dorma TS 83 Overhead  
Mounted Door Closer**

#### TECHNICAL SCHEDULE

**TS 34 - The Contribution Of  
Controlled Door Closing  
Devices And Accessories  
To Fire Resisting Doorsets**

Signed and sealed for and on behalf of CERTIFIRE

Sir Ken Knight  
Chairman - Management Council

Issued: 3<sup>rd</sup> February 1992  
Reissued: 19<sup>th</sup> February 2007  
Valid to: 18<sup>th</sup> February 2012

Page 1 of 4





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## CERTIFICATE No CF 118

### DORMA UK LTD

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#### DORMA TS83 OVERHEAD MOUNTED DOOR CLOSER

1. Dorma TS 83 is an overhead mounted door closing device with adjustable power and integral backcheck and delayed action functions.
2. This certification is designed to demonstrate compliance of the product or system specifically with Approved Document B (England and Wales), Section D of the Technical Standards (Scotland) and Technical Booklet E (N. Ireland). If compliance is required to other regulatory or guidance documents there may be additional considerations or conflict to be taken into account.
3. This approval relates to its use with the following door assemblies:-

**Latched and unlatched, intumescent sealed door assemblies consisting of timber faced and edged leaves with timber, cellulosic or mineral cores in timber frames having a fire resistance up to 120 minutes (Code ITT).**

**Latched and unlatched, intumescent sealed door assemblies consisting of metallic faced and edged leaves with cellulosic or mineral cores in steel frames having a fire resistance up to 240 minutes (Code IMM).**

4. The closers are approved on the basis of:
  - i) Initial type testing to EN 1154 and BS 476: Part 22: 1987
  - ii) An appraisal against TS34
  - iii) Production surveillance under ISO 9002
  - iv) Ongoing audit testing in accordance with EN 1154 requirements
5. This approval is applicable only to the specified closers used with door assemblies of proven fire resistance (as defined in BS EN 1634-1:2000 or BS476: Part 22: 1987) and having power ratings appropriate to the leaf sizes subject to a minimum size 3 (as specified in BS EN 1154).
6. The approval relates to on going production. Product and/or its immediate packaging is identified with the manufacturers' name, the product name or number, the CERTIFIRE name or name and mark, together with the CERTIFIRE certificate number and application where appropriate.
7. The following tables show acceptable doorsets types and fire resistance periods:



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## CERTIFICATE No CF 118

### DORMA UK LTD

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#### DORMA TS83 OVERHEAD MOUNTED DOOR CLOSER

For doorsets to BS 476: Part 22: 1987

Fire resistance performance as	MM	IMM	TT	ITT	ITM	ITC
FD20	✓	✓	✗	✓	✗	✗
FD30	✓	✓	✗	✓	✗	✗
FD60	✓	✓	✗	✓	✗	✗
FD90	✓	✓	✗	✓	✗	✗
FD120	✓	✓	✗	✓	✗	✗
FD240	✓	✓	✗	✗	✗	✗

For doorsets to EN 1634-1

Classification to EN13501-2	MM	IMM	TT	ITT	ITM	ITC
E 20	✓	✓	✗	✓	✗	✗
EI 20	✓	✓	✗	✓	✗	✗
E 30	✓	✓	✗	✓	✗	✗
EI 30	✓	✓	✗	✓	✗	✗
E60	✓	✓	✗	✓	✗	✗
EI 60	✓	✓	✗	✓	✗	✗
E 90	✓	✓	✗	✓	✗	✗
EI 90	✓	✓	✗	✓	✗	✗
E 120	✓	✓	✗	✓	✗	✗
EI120	✓	✓	✗	✓	✗	✗
E240	✓	✓	✗	✗	✗	✗
EI240	✓	✓	✗	✗	✗	✗

See CERTIFIRE Technical Schedules for designation of doorset types i.e. IMM etc.

#### **Scope of Approval:**

Doors may not include uninsulated glass above 20% of their total area.  
The closers may not be fitted to timber doorsets without leaf/frame edge intumescent protection.



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## CERTIFICATE No CF 118

### DORMA UK LTD

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#### DORMA TS83 OVERHEAD MOUNTED DOOR CLOSER

##### Classification code

The above approval provides the following classification:

##### TS83 EN7

4	8	7	1	1	4
---	---	---	---	---	---

##### TS83 EN3-6

4	8	6 3	1	1	4
---	---	--------	---	---	---

##### TS83 EN2-6

4	8	6 3	1	1	4
---	---	--------	---	---	---

##### Further Information

Further information regarding the details contained in this data sheet may be obtained from Dorma UK Limited (Tel: 01462 477600).

Further information regarding CERTIFIRE certification and other approved products can be obtained from CERTIFIRE (Tel: 01925 646777).



Cam-action  
door closers

# **DORMA**

# **TS 92**

# **TS 91**

## 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 Softline 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.



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

### 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 Softline 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 Softline 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 <sup>1)</sup>	TS 91 B
Closing force	EN size	2–4	3
Adjustable		●	–
Standard doors <sup>2)</sup>	up to 950 mm	–	●
	up to 1100 mm	●	–
External doors, outward opening <sup>2)</sup>		–	–
Fire and smoke check doors		●	●
Non-handed design		●	●
Arm assembly	Slide channel	●	●
Closing speed and latching adjustable	180°–15°	●	●
	15°–0°		
at two separate valves			
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		●	●

● yes – no ○ option

<sup>1)</sup> B = Standard model for pull-side door leaf fixing/push-side transom fixing.

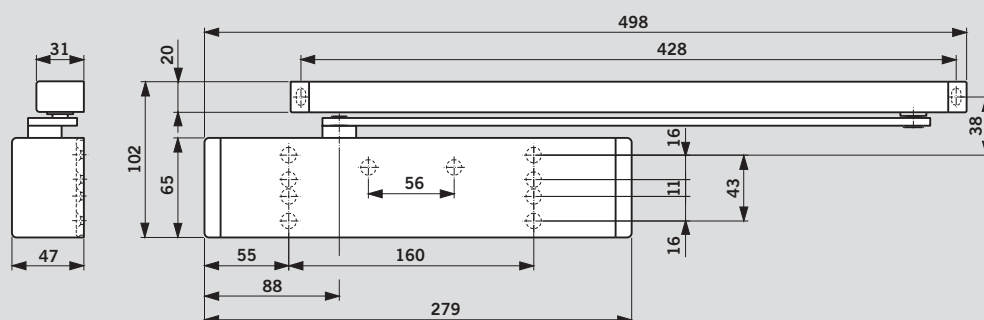
G = Special model for push-side door leaf fixing/pull-side transom fixing.

<sup>2)</sup> For particularly heavy doors and doors which have to close against wind resistance, we recommend the DORMA TS 93.

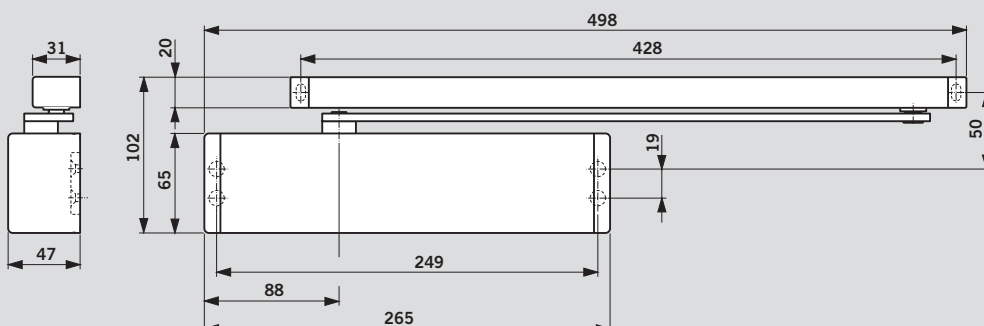


The TS 92/TS 91 complies with the requirements and/or recommendations of the following:  
CERTIFIRE approved for fire doors ITT 120; Ref. CF 119

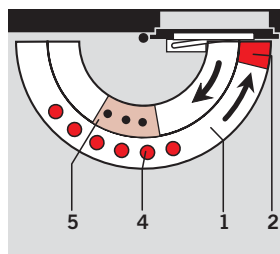
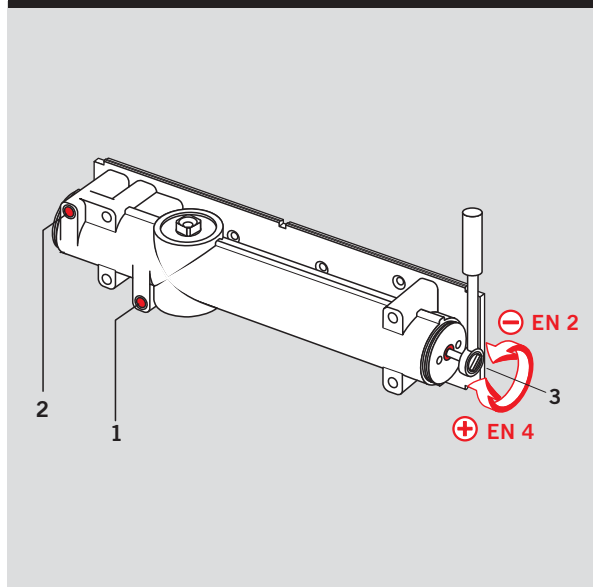
DORMA TS 92,  
Size EN 2 – 4



DORMA TS 91,  
Size EN 3



### DORMA TS 92 B/G

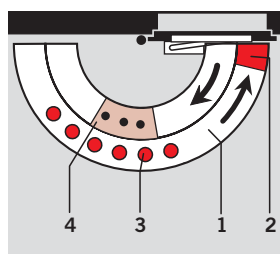
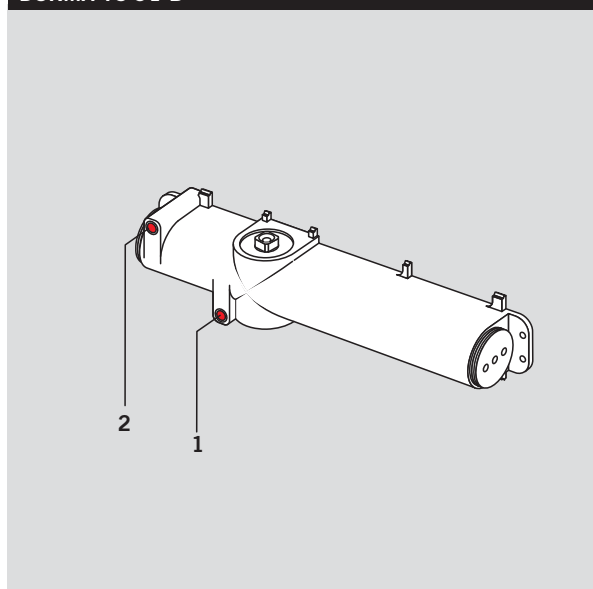


- 1 Variable closing speed in the range 180°–15°
- 2 Variable latching speed in the range 15°–0°
- 3 Infinitely variable closing force
- 4 Hold-open (option)
- 5 Cushioned limit stay (option)

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.

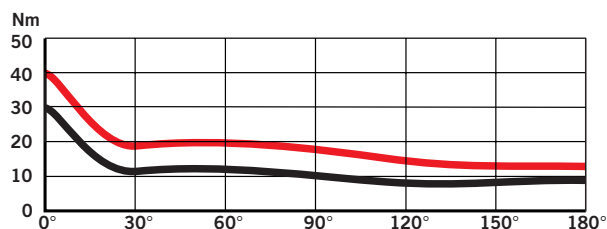
### DORMA TS 91 B



- 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

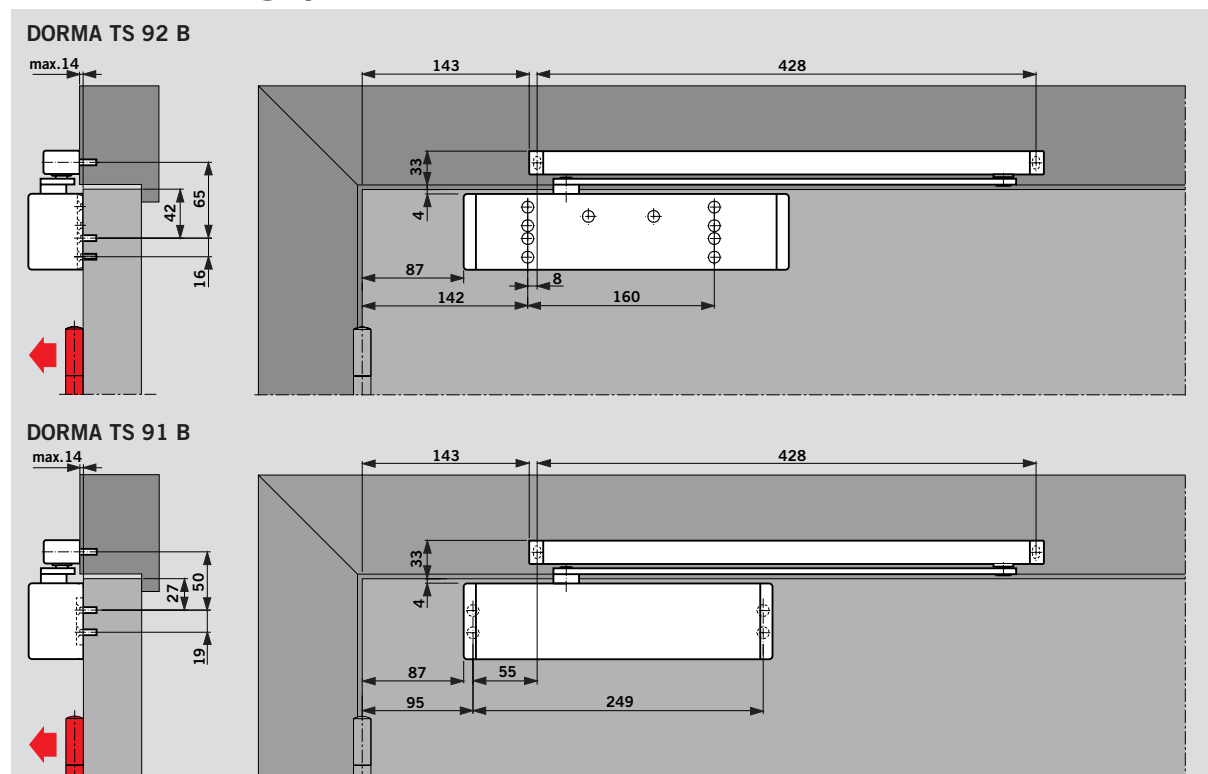
- Opening resistance
- Closing force



The heart-shaped cam and the linear drive mechanism which characterise all DORMA cam-

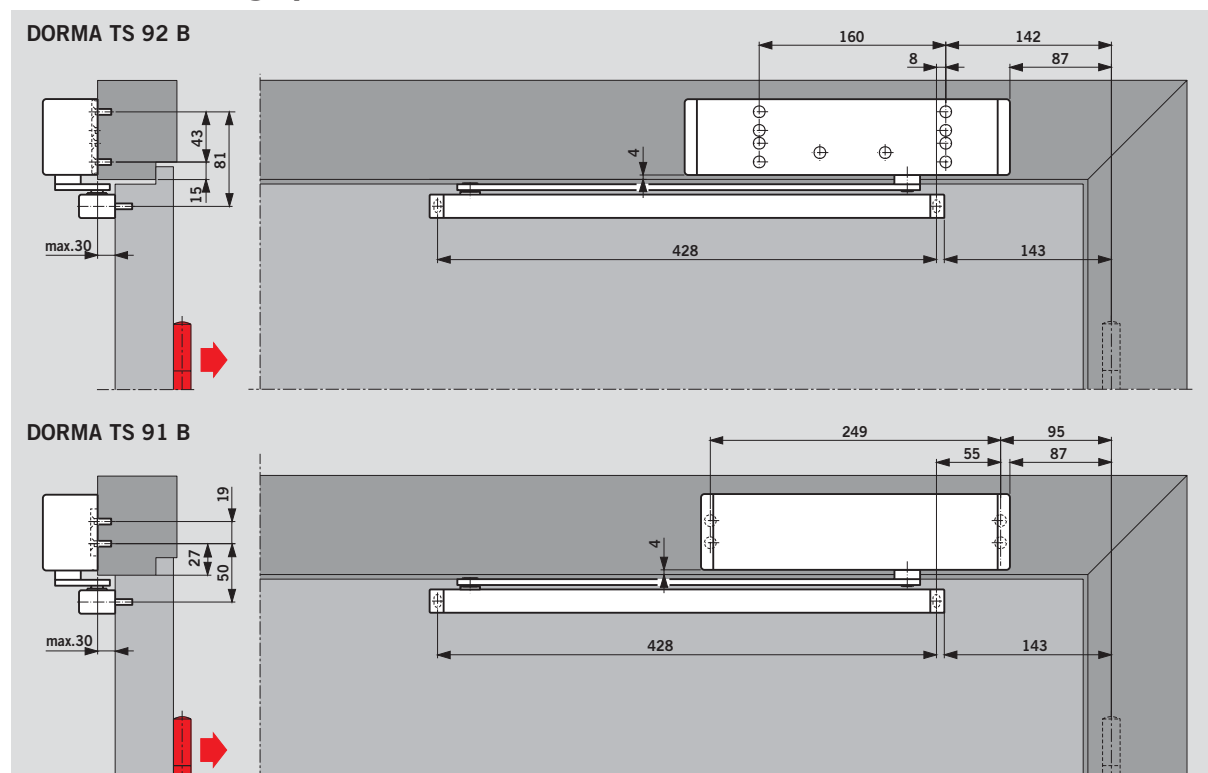
action door closers produce a rapidly decreasing opening torque, so greatly reducing the amount of effort required. This means that even children, the elderly and the disabled can open doors with ease. The user-friendliness of the system is further enhanced by the reliable latching action achieved by 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)



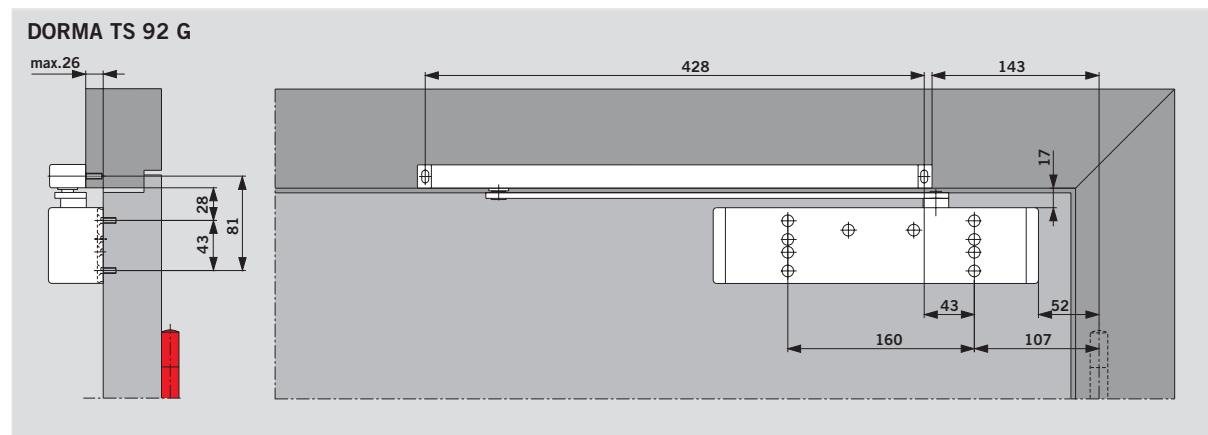
Provided the structural conditions allow, an opening angle of 180° is possible with this method of fixing. In most cases, however, a wall recess will have to be provided for the door closer.

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



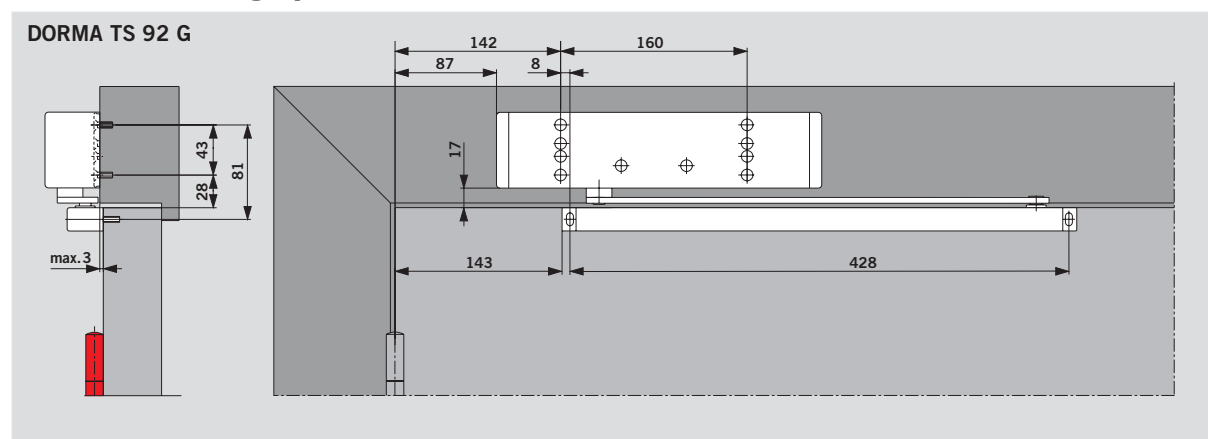
Depending on the structural conditions, the door opening angle with this method of fixing is limited to approx. 120° to 145°. In order to avoid damage to the door or door closer, users are recommended to install a cushioned backstay or a door stop.

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



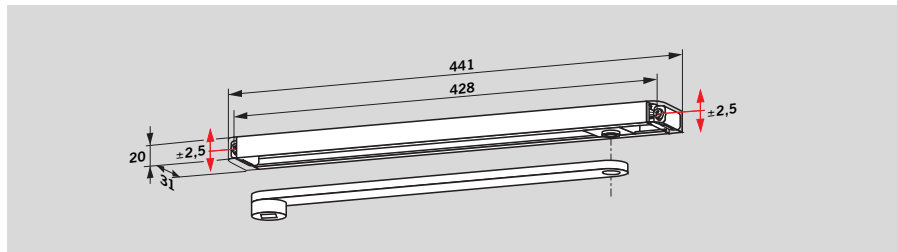
Depending on the structural conditions, the door opening angle with this method of fixing is limited to approx. 120° to 145°. In order to avoid damage to the door or door closer, users are recommended to install a cushioned backstay or a door stop.

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



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

## Slide channel

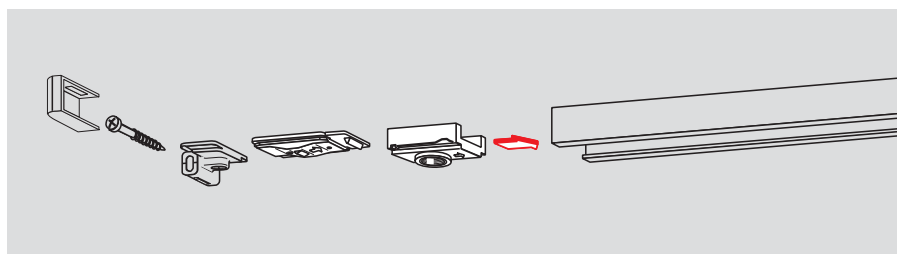


The **DORMA G-N** slide channel assembly comprises the main arm, slide channel, slide block, fixings, screws and end caps. The DORMA G-N slide channel

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.

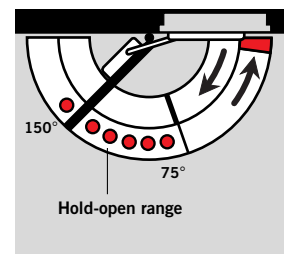
## Hold-open unit



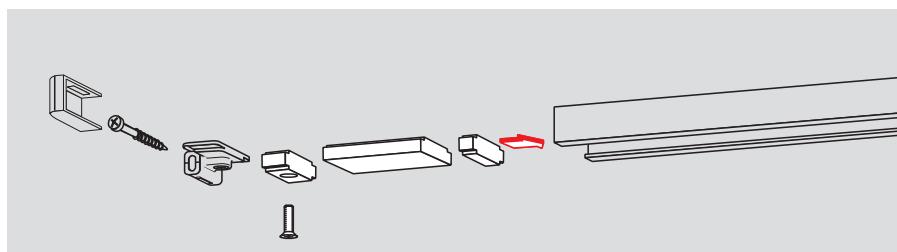
The DORMA RF mechanical hold-open unit ensures that doors are held open at precisely the correct angle – up to approx. 150° – without any fallback.

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.



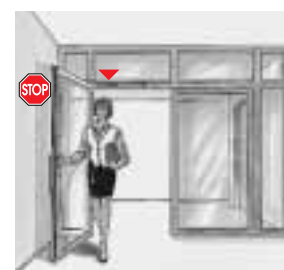
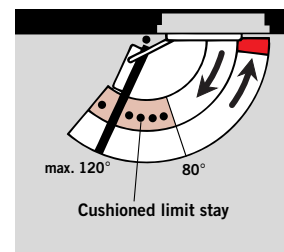
## Cushioned limit stay

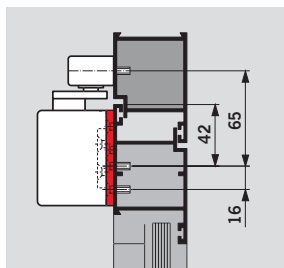


Cushioned limit stay simply slides into the slide channel. Adjustable between 80° and max. 120°. Also suitable for retrofitting.

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

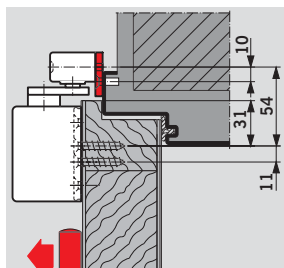
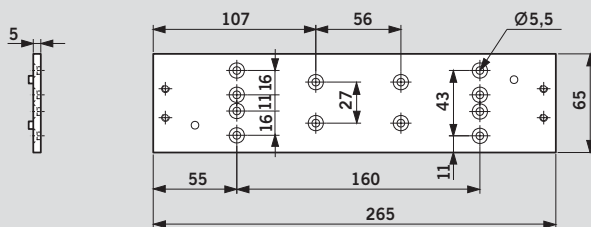
**The cushioned limit stay is not an overload protection device and in many applications will not be a suitable substitute for a door stop.**





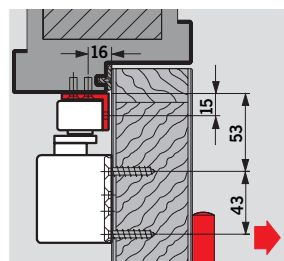
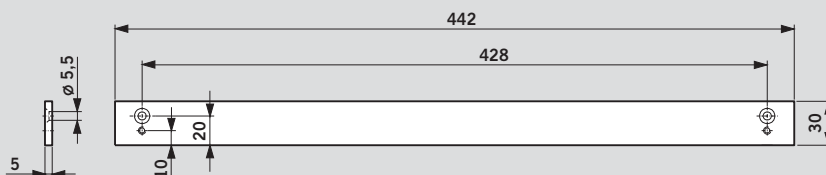
## Mounting backplate for DORMA TS 91

For fixing to doors which provide no means of direct mounting.  
Fixing hole pattern as per Supplement 1 to EN 1154.



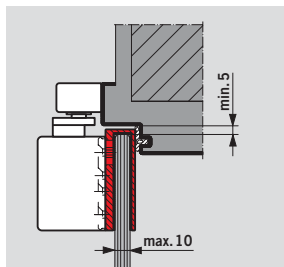
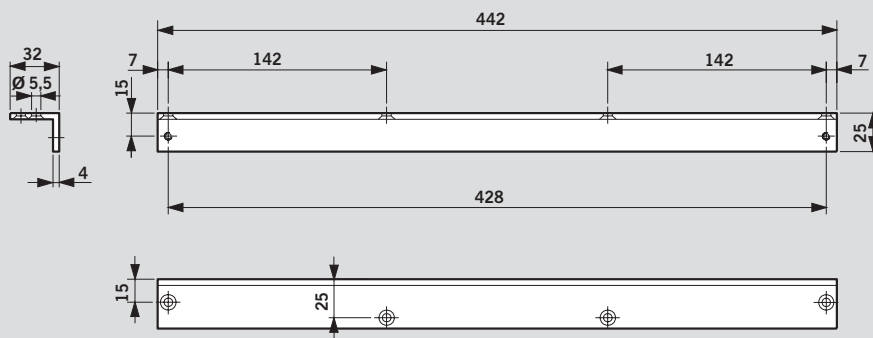
### Mounting backplate for G-N

For fixing the slide channel to the door frame where there is no means of direct mounting.



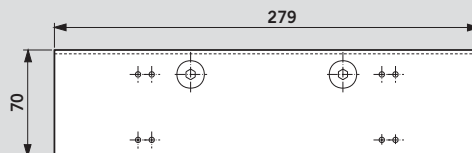
### Angle bracket for G-N




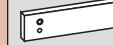







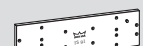
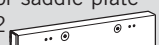
For push-side fixing of the slide channel to door frames with a deep reveal.



## 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	Cam-action door closer TS 92 G	Cam-action door closer TS 91 B	Mounting backplate for G-N	Angle bracket for G-N	Cushioned limit stay for G-N	Hold-open unit for G-N
	 Size EN 2-4 ■ 110201xx	 Size EN 2-4 ■ 110301xx	 Size EN 3 ■ 100201xx	 183400xx	 183600xx	 35800093	 18570000
Slide channel G-N  □ 180100xx				#	#	#	#
Mounting backplate for TS 91  100002xx			#				
Glass door saddle plate for TS 92  110001xx	#	#					

Order number:

■ = Closer body separate

□ = Arm assembly separate

# = Accessory

Colour

Silver

Dark brown

White (RAL 9010)

White (RAL 9016)

xx

01

03

10

11

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

Stainless steel "Design" 04

Polished brass 05

## Specification text TS 92 B/G

Cam-action door closer, CERTIFIRE approved (CF 119), in Softline design with linear drive and rapidly decreasing opening resistance/torque, adjustable closing speed in two independent ranges and mounting backplate with universal fixing hole pattern; closing force infinitely variable between size EN 2 and EN 4. Non-handed. Approved to EN 1154.

## Model

□ TS 92 B

□ TS 92 G

## Accessories

- Hold-open unit
- Cushioned limit stay
- Mounting backplate for G-N
- Angle bracket for G-N
- Saddle plate for toughened glass doors

## Colour

□ Silver

□ Dark brown

□ White (sim. to RAL 9010)

□ White (sim. to RAL 9016)

□ Stainless steel "Design"

□ Polished brass

□ Special colour \_\_\_\_\_ (similar to RAL \_\_\_\_\_)

## Make

DORMA TS 92 B

DORMA TS 92 G

☐ TS92

## Specification text TS 91 B

Cam-action door closer, CERTIFIRE approved (CF 119), in Softline design with linear drive and rapidly decreasing opening resistance/torque, adjustable closing speed in two independent ranges and mounting backplate with universal fixing hole pattern; closing force EN 3. Non-handed. Approved to EN 1154.

## Accessories

- Hold-open unit
- Cushioned limit stay
- Mounting backplate for G-N
- Mounting backplate

## Colour

□ Silver

□ Dark brown

□ White (sim. to RAL 9010)

□ White (sim. to RAL 9016)

□ Special colour \_\_\_\_\_ (similar to RAL \_\_\_\_\_)

Make DORMA TS 91 B

☐ TS91

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The address of a subsidiary/representation in your area you can find at the DORMA website:  
**www.dorma.com**



Floor Springs

# **DORMA**

## **BTS 80** **BTS 75 V**

## Universal application, individual functions and assured quality

Whether standard, narrow or wide, whether LH, RH, or single or double action – DORMA BTS 80 and BTS 75 V door springs are designed for all types of door. A comprehensive program of accessories ensures that they can be used successfully with a wide variety of door constructions and floor coverings.

Thanks to a wide range of functions, which can be individually selected to suit different requirements, DORMA BTS 80 and BTS 75 V floor springs offer maximum reliability and quality.

Certified to ISO 9001.

### Benefits...

#### ... for the trade

- Reduced stock requirements because of separate, interchangeable spindles.
- Slim product range offering all key functions.

#### ...for the installer

- Suitable for installation with LH or RH single and double action doors.
- Interchangeable spindles enable easy adaptation to structural conditions – even when retrofitted.

#### ...for the architect/specifier

- Concealed installation for maximum visual elegance
- All essential functions provided
- Proven, robust design capable of withstanding leaf weights of up to 300 kg (BTS 80).

#### ...for the user

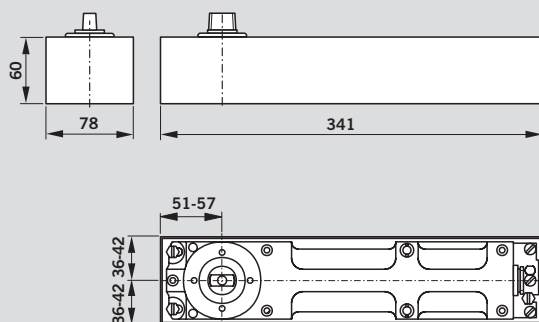
- Constant, temperature-independent closing cycle.
- Highly efficient mechanism gives maximum user convenience.

Data and features		BTS 80			BTS 75 V
Spring strength (EN)		3	4	6	1–4
Spring strength adjustment		–	–	–	●
Standard and external doors <sup>1)</sup>	≤ 950 mm	●	–	–	–
	≤ 1100 mm	–	●	–	●
	≤ 1400 mm	–	–	●	–
Fire and smoke check doors		–	–	–	●
Max. leaf weight (kg)		300			120
Non-handed, suitable for single and double action doors		●			●
Closing speed adjustable by valve	175° – 0°	●			–
	175° – 15°	–			●
	15° – 0°	–			●
Backcheck, mechanical		●			●
Delayed action adjustable by valve (selectable alternative to the hold-open feature)		●			–
Hold-open	Adjustable	●			–
	Fixed 90°	–			●
	Fixed 105°	–			●
Coverplate secured to	cement box	–			–
	floor spring	●			●
Weight in kg		7.1			3.0
Dimensions in mm	Length	341			285
	Width	78			82
	Height	60			50
Floor spring tested to EN 1154		●			●
CE marking for building products		In preparation			

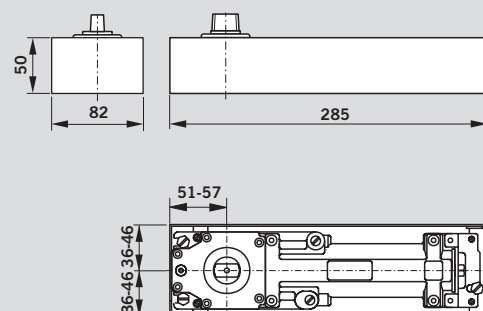
● yes – no

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

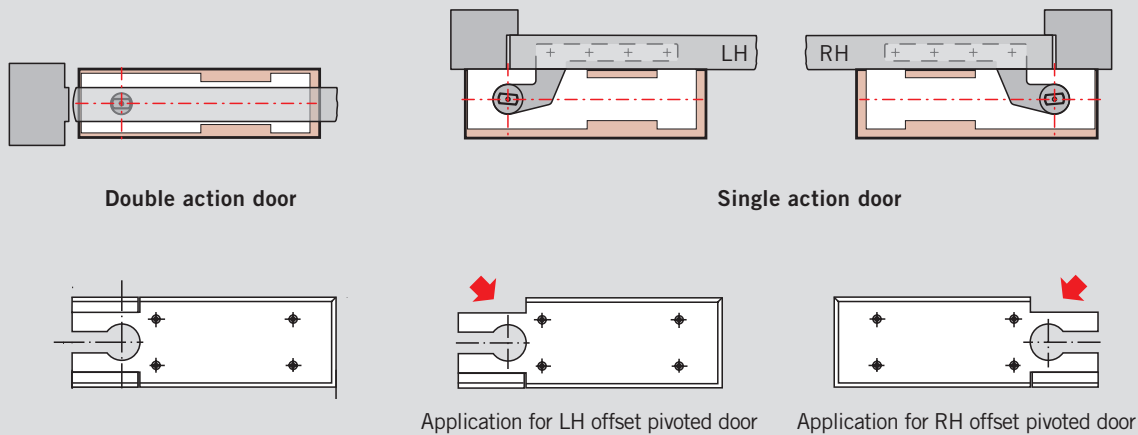
### BTS 80



### BTS 75 V



## Application and Installation

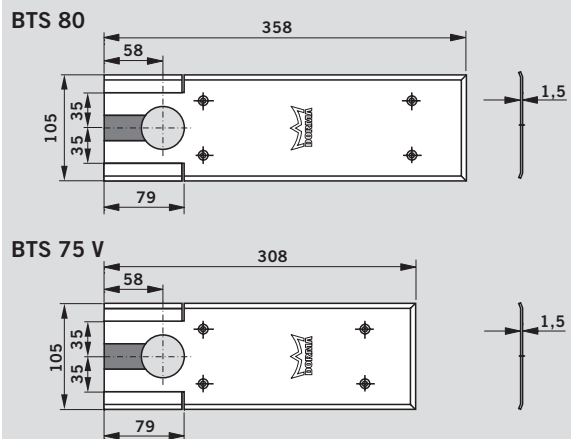


## Accessories

### Universal cover plate

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

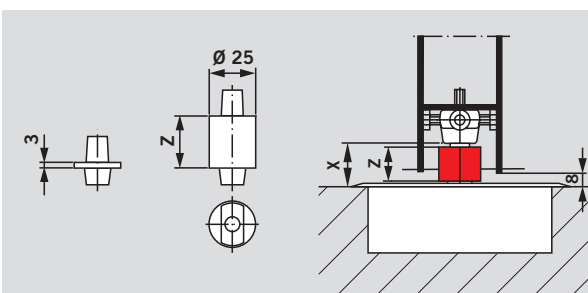
The universal cover plate is available in stainless steel or satin brass (material thickness 1.5 mm).



### Spindles

A range of interchangeable spindles is available to provide greater floor clearance if required (e.g. doors with thresholds, carpeted floors etc).

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

















Spindle Extension = Dimension "X" – 8 mm)  
(Door Clearance) Z – 3mm

### DORMA 2300 sealing compound

For filling cavities between the floor spring body and the cement box to protect against moisture penetration.

Information about other accessories such as **door straps and top centres** can be found in the "Accessories for DORMA BTS Floor Springs" leaflet

Standard equipment and accessories																
BTS 80 floor spring 	BTS 75 V floor spring 	Extended spindles (extension in mm)														2300 sealing compound, 0.5 kg  45090059
		 Standard 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	
Including cement box and standard spindle																
EN 3 80120000	EN 1 – 4 61701000		#	#	#	#	#	#	#	#	#	#	#	#	#	
EN 4 80110000	EN 1 – 4 with hold-open at 90° 61701200		#	#	#	#	#	#	#	#	#	#	#	#	#	
EN 6 80130000	EN 1 – 4 with hold-open at 105° 61701300		#	#	#	#	#	#	#	#	#	#	#	#	#	
Including cement box without spindle																
EN 3 80120001	EN 1 – 4 61701001	#	#	#	#	#	#	#	#	#	#	#	#	#	#	
EN 4 80110001	EN 1 – 4 with hold-open at 90° 61701201	#	#	#	#	#	#	#	#	#	#	#	#	#	#	
EN 6 80130001	EN 1 – 4 with hold-open at 105° 61701301	#	#	#	#	#	#	#	#	#	#	#	#	#	#	
Universal cover plate																
46700000	46700059	Stainless steel														
46700100	46700159	Satin brass														

● = Floor spring with spindle      # = Accessories

#### BTS 80 specification text

Universal non-handed floor spring conforming to DIN EN 1154 for single and double action doors up to max. 300 kg leaf weight. With adjustable closing speed and closing action from approx. 175°, with hydraulically fully controlled closing cycle and backcheck. With integral pressure compensation feature for temperature-independent hold-open between 75° and 175° (removable). With adjustable hold-open start point and delayed action (end of delayed action range adjustable between 75° and 105°). Including cement box.

#### Size

- ☐ EN 3
- ☐ EN 4
- ☐ EN 6

#### Accessories

- ☐ Spindle
  - ☐ standard
  - ☐ ... mm extension
  - ☐ special model ...
- ☐ Universal cover plate (1.5 mm thick)
  - ☐ stainless steel
  - ☐ satin brass

- ☐ Sealing compound

**Make:** DORMA BTS 80

#### DORMA BTS 75 V specification text

Universal floor spring conforming to DIN EN 1154, non-handed unit suitable for LH and RH single and double action doors up to 120 kg leaf weight, with adjustable spring strength (size EN 1 – 4) and closing speed, with closing action operational from approx. 175°. Featuring hydraulically fully controlled closing cycle and backcheck. Including cement box.

#### Accessories

- ☐ Spindle
  - ☐ standard
  - ☐ ... mm extension
  - ☐ special design...
- ☐ Universal cover plate (1.5 mm thick)
  - ☐ stainless steel
  - ☐ satin brass

- ☐ Sealing compound

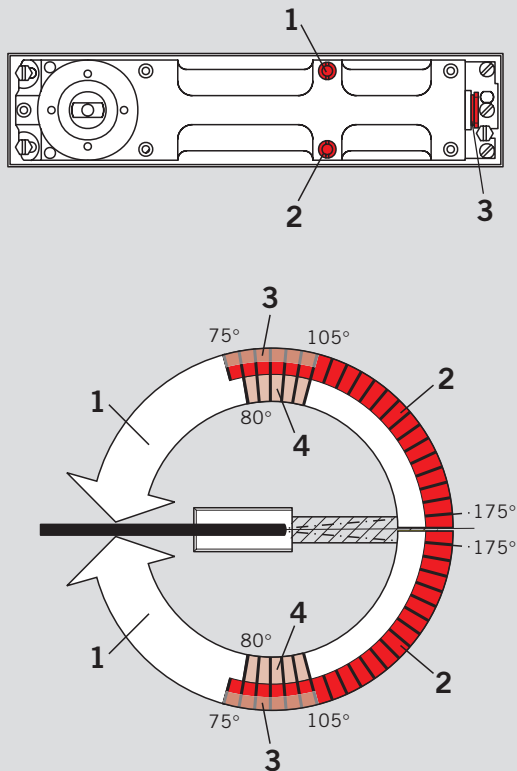
**Make:** DORMA BTS 75 V

#### Models

- ☐ With spindle
- ☐ Without spindle

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

## Standard and optional functions of the BTS 80



1 Adjustable closing speed

2 Hold-open range or delayed action range

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°)

### Hydraulic hold-open

The integrated hold-open function allows the door to be held open at any angle between 75° and 175°. The angle at which the hold-open function begins can be adjusted in the range of 75° to 105°.

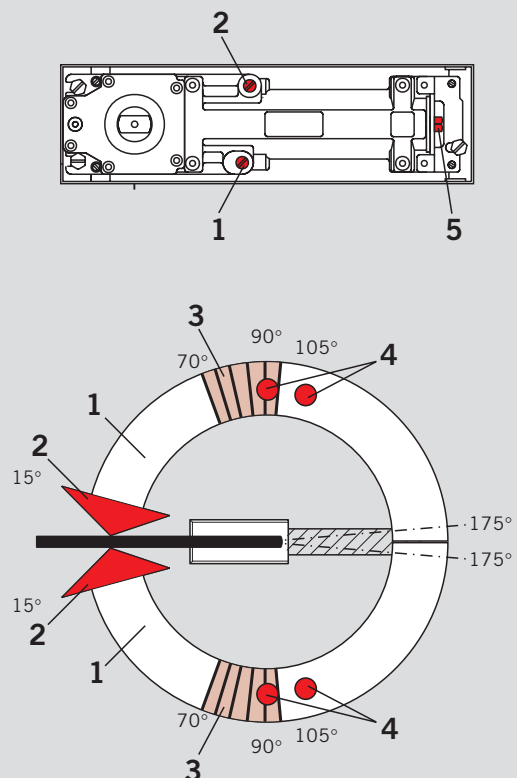
### Delayed action

The delayed action function slows the door closing speed, thereby allowing disabled persons, mothers with pushchairs, staff with trolleys or hospital gurneys etc. to pass through the door without problem.

### Backcheck

The integrated mechanical backcheck function protects the wall and door from damage caused by excessively vigorous opening.

## Standard and optional functions of the BTS 75 V



1 Adjustable closing speed in the range 175° – 15°.

2 Adjustable closing speed in the range 15° – 0°.

3 Mechanical backcheck (from approx. 70°).

4 Fixed hold-open at 90° or 105° (option).

5 Adjustable spring strength (EN 1–4).

### Closing speed

With two independently adjustable closing ranges (175° – 15° and 15° – 0°) the DORMA BTS 75 V is ideally adaptable to different structural conditions.

### Fixed hold-open (option)

With the fixed hold-open function the door can be held open at an angle of 90° or 105°, depending on model.

**Not suitable for use on Fire doors.**

### Backcheck

The integrated mechanical backcheck function protects the wall and door from damage caused by excessively vigorous opening.



The DORMA BTS 75 V is CERTIFIRE approved (Certificate No. 127) for door types ITT 60 and IMM, IMN 240.

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Door Control

Automatic

Glass  
Fittings and  
Accessories

Security/  
Time and  
Access (STA)

Movable  
Walls



4 021 226 286 715



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## CERTIFICATE OF APPROVAL

### No. CF 127

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This is to certify that, in accordance with  
CERTIFIRE's Rules for Certification  
The undermentioned products of

**DORMA UK LIMITED**  
Wilbury Way, Hitchin, Hertfordshire, SG4 0AB  
Tel: 01462 477600 Fax: 01462 477601

Have been assessed against the requirements of the Technical Schedule(s)  
denoted below and are approved for use subject to the conditions  
appended hereto:

---

#### CERTIFIED PRODUCT

DORMA BTS 75V, 80F, 80EMB  
And 80FLB Floor Springs and  
Associated Accessories

#### TECHNICAL SCHEDULE

TS27 The Contribution of Closing  
Devices and Accessories to the  
Fire Resistance of Door Assemblies  
with Non Metallic Leaves  
TS28 The Contribution of Closing  
Devices and Accessories to the  
Fire Resistance of Door  
Assemblies with Metallic Leaves  
TS34 - The Contribution of Controlled  
Door Closing Devices and Accessories  
to Fire Resisting Doorsets

Signed and sealed for and on behalf of CERTIFIRE

Kenneth J Knight  
Chairman - Management Council

Issued: 2nd April 1993  
Reissued: 8<sup>th</sup> August 2005  
Revised: 10<sup>th</sup> February 2006  
Valid to: 7<sup>th</sup> August 2010

Page 1 of 4



Seal is in place Only valid when authentic  
CERTIFIRE



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## **CERTIFICATE No CF 127**

### **DORMA UK LTD**

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#### **DORMA BTS 75V, 80F, 80EMB AND 80FLB FLOOR SPRINGS AND ACCESSORIES**

1. BTS 75V, 80F, 80EMB and 80FLB Floor Springs is are adjustable floor mounted closing devices which may be used with the following accessories:
  - i) Top centre 8066, 7411, 6150 and K56F
  - ii) Dorma Bottom Strap 7421
  - iii) Offset bottom straps 4150, 7411/56
2. This certification is designed to demonstrate compliance of the product or system specifically with Approved Document B (England and Wales), Section D of the Technical Standards (Scotland), Technical Booklet E (N. Ireland). If compliance is required to other regulatory or guidance documents there may be additional considerations or conflict to be taken into account.
3. This approval relates to its use with the following door assemblies:-

Latched and unlatched, intumescent sealed door assemblies consisting of timber faced and edged leaves with timber, cellulosic or mineral cores in timber frames having a fire resistance up to 60 minutes (Code ITT) where the leaf is a minimum of 54mm thick.

Latched and unlatched, intumescent sealed door assemblies consisting of timber faced and edged leaves with timber, cellulosic or mineral cores in steel frames having a fire resistance up to 60 minutes (Code ITM) where the leaf is a minimum of 54mm thick.

Latched and unlatched, intumescent sealed door assemblies consisting of metallic faced and edged leaves with cellulosic or mineral cores in steel frames having a fire resistance up to 240 minutes (Code IMM).
4. The closers are approved on the basis of:
  - i) Initial type testing to EN 1154/5, BS 476: Part 22: 1987 & BS EN 1634-1:2000
  - ii) An appraisal against TS27, TS28 & TS 34
  - iii) Production surveillance under ISO 9001: 2000
  - iv) Ongoing audit testing in accordance with EN 1154/5 requirements
5. This approval is applicable only to the specified closers used with door assemblies of proven fire resistance (as defined in BS476: Part 22: 1987 or BS EN 1634-1: 2000 as applicable) and having power ratings appropriate to the leaf sizes subject to a minimum size 3 (as specified in BS EN 1154). The approval does not relate to the hold open variant of BTS 75V.
6. The approval relates to on going production. Product and/or its immediate packaging is identified with the manufacturers' name, the product name or number, the CERTIFIRE name or name and mark, together with the CERTIFIRE certificate number and application where appropriate.



## CERTIFICATE No CF 127

### DORMA UK LTD

#### DORMA BTS 75V, 80F, 80EMB AND 80FLB FLOOR SPRINGS AND ACCESSORIES

7. The following tables show acceptable doorsets types and fire resistance periods:

BTS 75V for doorsets to BS 476: Part 22: 1987

Fire resistance performance as	MM	IMM	TT	ITT	ITM	ITC
FD20	x	✓	x	✓	✓	x
FD30	x	✓	x	✓	✓	x
FD60	x	✓	x	✓	✓	x
FD90	x	✓	x	x	x	x
FD120	x	✓	x	x	x	x
FD240	x	✓	x	x	x	x

BTS 80F, 80EMB and 80FLB for doorsets to BS 476: Part 22: 1987

Fire resistance performance as	MM	IMM	TT	ITT	ITM	ITC
FD20	✓	✓	x	✓	✓	x
FD30	✓	✓	x	✓	✓	x
FD60	✓	✓	x	✓	✓	x
FD90	✓	✓	x	x	x	x
FD120	x	x	x	x	x	x
FD240	x	x	x	x	x	x

BTS 75V, and 80F for doorsets to EN 1634-1\*

Classification to prEN13501-2	MM	IMM	TT	ITT	ITM	ITC
E 20	x	x	x	✓	x	x
EI 20	x	x	x	✓	x	x
E 30	x	x	x	✓	x	x
EI 30	x	x	x	✓	x	x
E60	x	x	x	✓	x	x
EI 60	x	x	x	✓	x	x
E 90	x	x	x	x	x	x
EI 90	x	x	x	x	x	x
E 120	x	x	x	x	x	x
EI120	x	x	x	x	x	x
E240	x	x	x	x	x	x
EI240	x	x	x	x	x	x

See CERTIFIRE Technical Schedules for designation of doorset types i.e. IMM etc.



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## **CERTIFICATE No CF 127**

### **DORMA UK LTD**

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#### **DORMA BTS 75V, 80F, 80EMB AND 80FLB FLOOR SPRINGS AND ACCESSORIES**

##### **Scope of Approval:**

Doors may not include uninsulated glass above 20% of their total area  
The closers may not be fitted to timber doorsets without intumescent protection  
Where the door leaves are 45mm thick the approval is limited to FD30 with codes ITT and ITM

\* Doorsets tested to EN 1634-1: 2000 must be a minimum of 54 mm thick and the closer strap, top centre and cover plate must all be bedded onto 1 mm thick mono ammonium phosphate intumescent sheet material.

##### **Classification codes**

The above approval provides the following classification for BTS 75V floor springs:

3	8	4 3	1	1	4
---	---	--------	---	---	---

The above approval provides the following classification for BTS 80F floor springs:

4	8	6 4	1	1	4
---	---	--------	---	---	---

The above approval provides the following classification for BTS 80EMB and BTS 80FLB floor springs:

3	8	6 4	1	1	4
---	---	--------	---	---	---

##### **Further Information**

Further information regarding the details contained in this data sheet may be obtained from Dorma UK Limited (Tel: 01462 477600).

Further information regarding CERTIFIRE certification and other approved products can be obtained from CERTIFIRE (Tel: 01925 646777).



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.

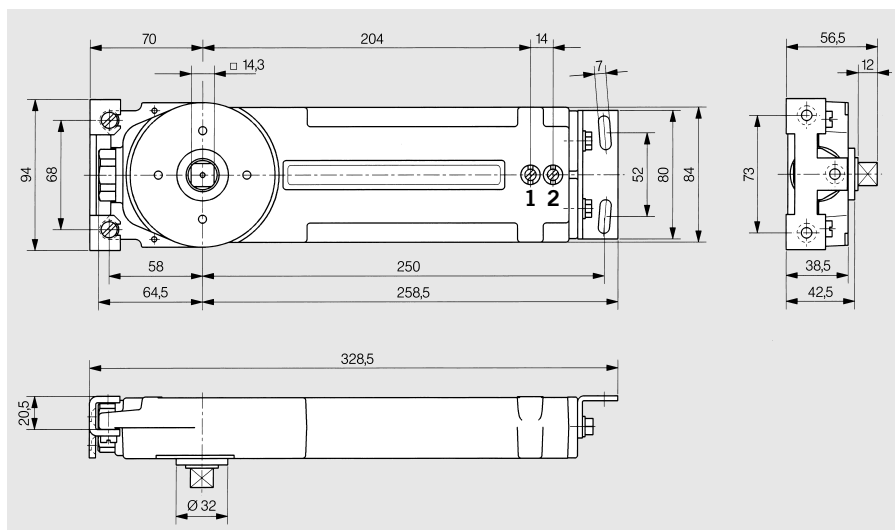
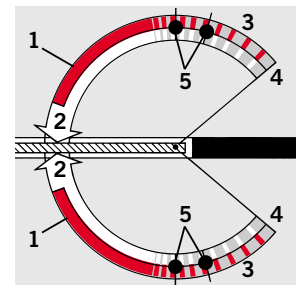
#### For the user

- 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	up to 950 mm	●	–	–
and external	1100 mm	–	●	–
doors	1250 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

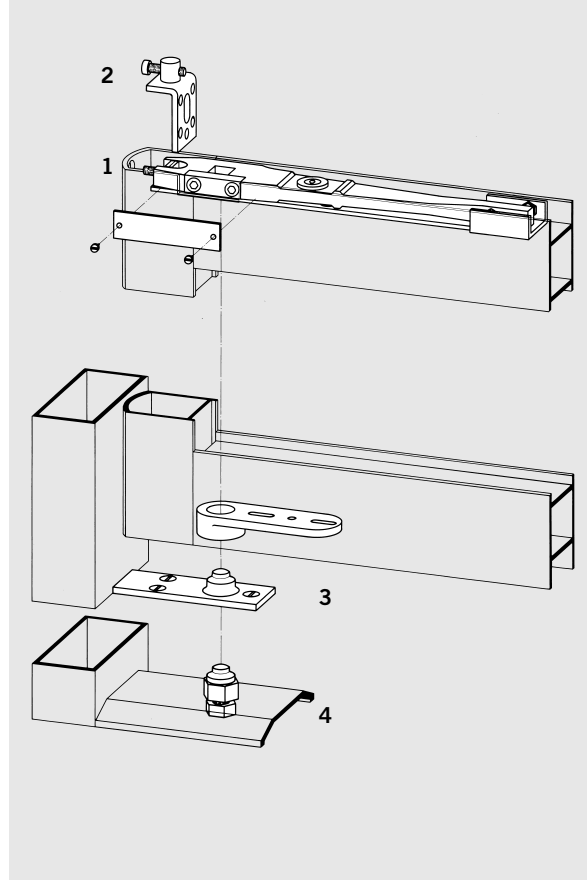
Art.-No. 8551  
for bottom rails with channel depth of 18–50 mm.  
(Floor portion may be shortened to suit bottom rail.)  
Floor portion of pivot is fitted directly to floor.

#### 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

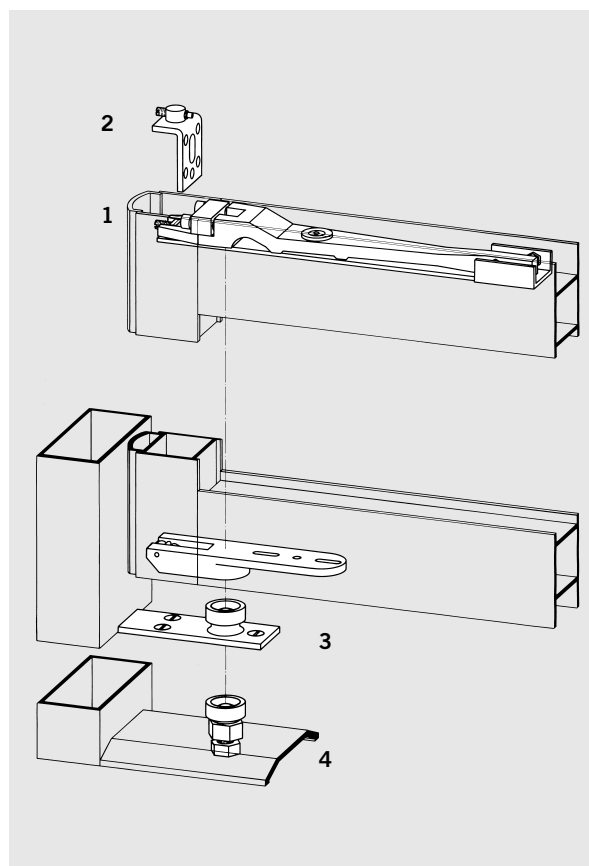
Art.-No. 8552  
for bottom rails with channel depth of 18–20 mm. Floor portion of pivot is fitted directly to floor.

#### 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.

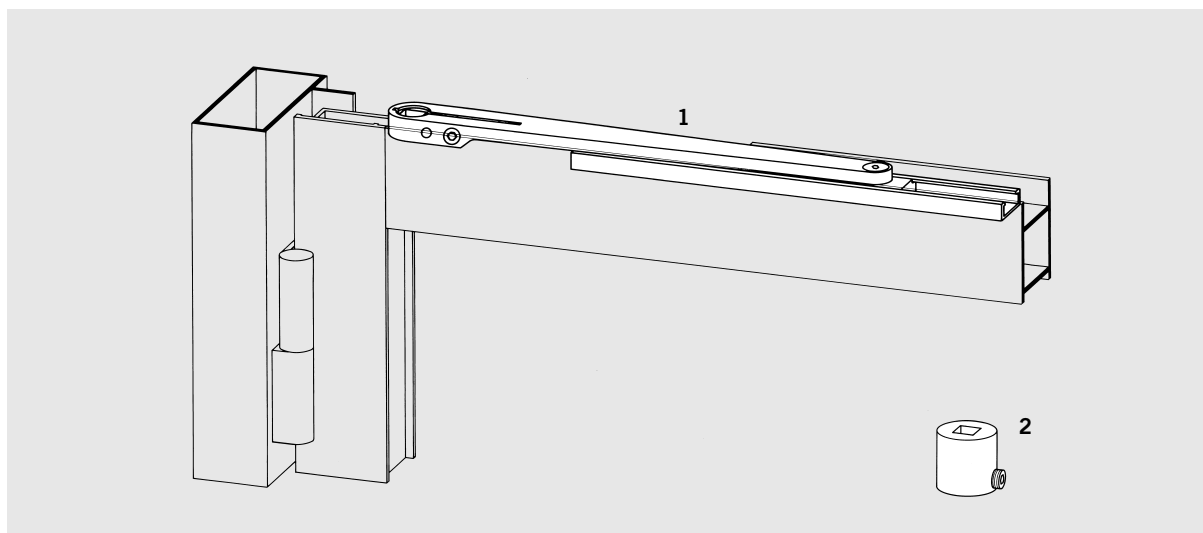
### Note:

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)

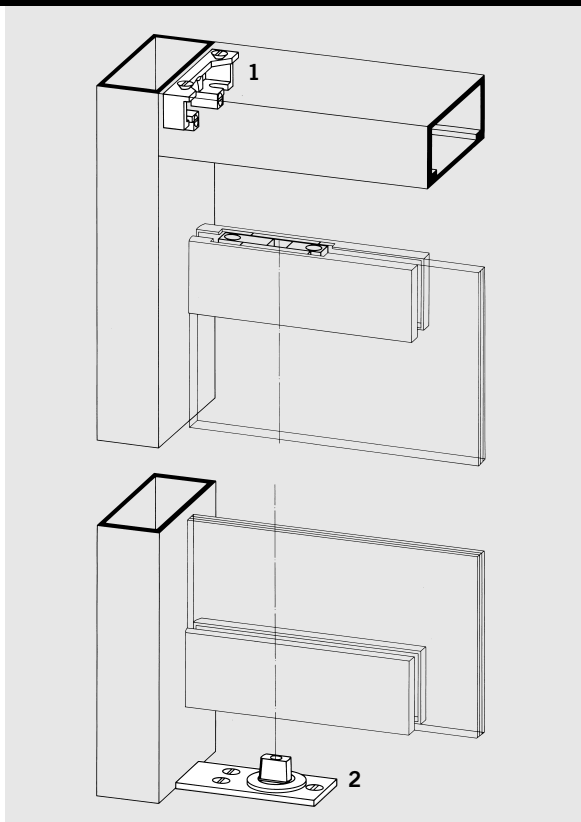
For tempered glass doors, the RTS 85 is used with a special fixing bracket, Art.-No. 8520 G, giving a 65 mm pivot point. The standard patch fittings can thus be used with appropriate inserts. (Patch fittings with insert available from DORMA-Glas range of products).

### 1 Fixing bracket

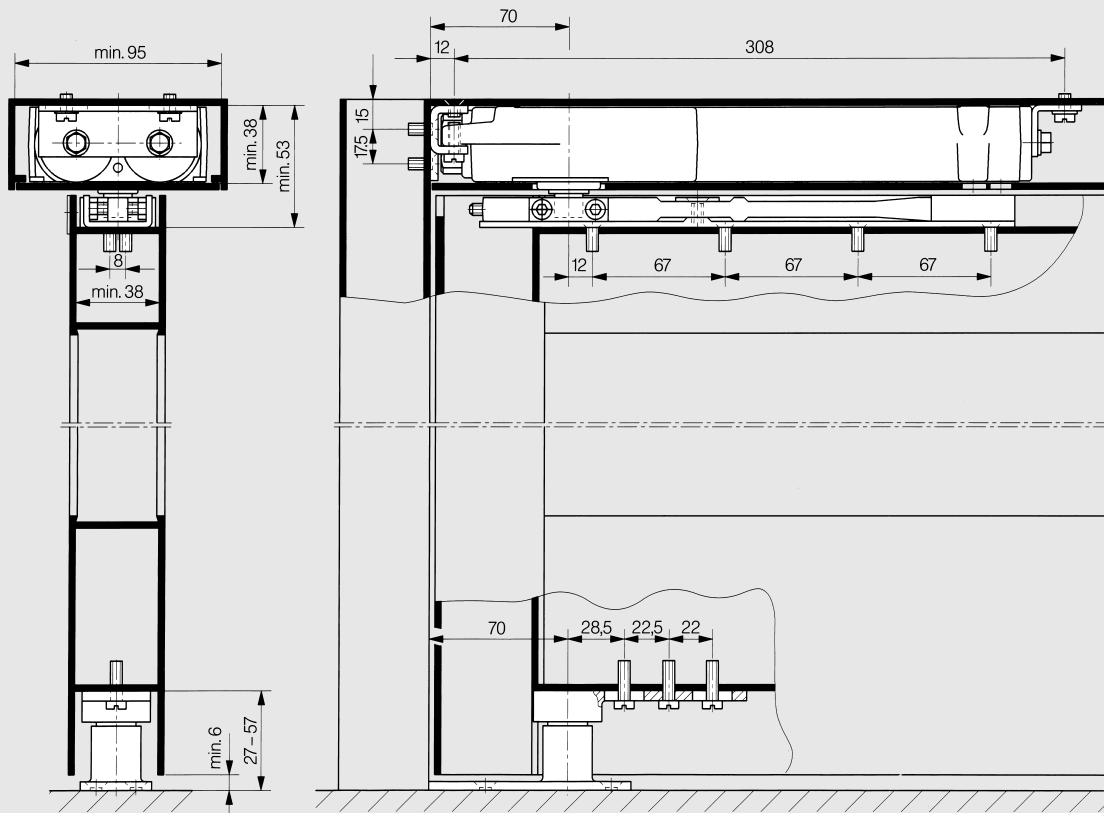
Art.-No. 8520 G  
For fixing the DORMA RTS in the transom.

### 2 Floor pivot bearing with flat-tapered spindle

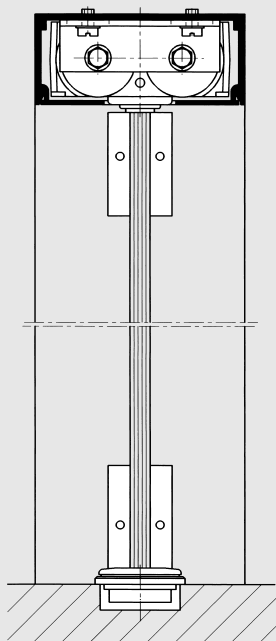
Art.-No. 8560 G  
With sealed roller bearing assembly, rust-protected, for max. door weights of 110 kg (if used without the transom concealed door closer, then 200 kg).  
Special pivots also available with extended spindles of 5, 10 and 15 mm, and also for special environments (e.g. wet rooms) in stainless 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.



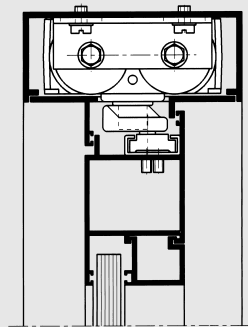
## Typical applications



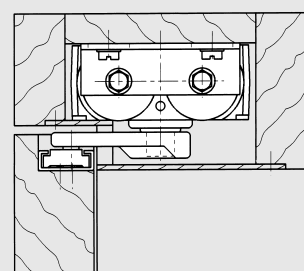
**Double action aluminium door**



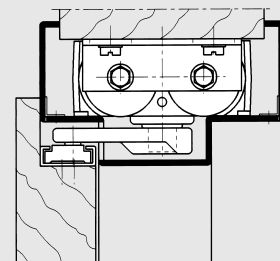
**Double action tempered glass door  
with aluminium frame**



**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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