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The Specifiers Guide

Door Controls



**Feature Guide to
DORMA
Door Closers &
Floor Springs**

PRODUCT	SIZE	Max. Door Width	Max. Door Weight	BS EN 1154	CERTIFIRE	CE Marked	Adjustable Sweep Speed	Adjustable Latching Speed	Adjustable Delayed Action	Backcheck	Mechanical Hold Open Version	EMF Hold Open Version for fire doors	GSR Integral Door Co-ordinator Version	Min. Fire Door Width (EN3) for ADM/Section 3/Part R & BS8300
Cam Action Door Closers														
TS97	EN 2-4	1100mm		✓	ITT120, MM/IMM240	✓	✓	✓	✓	"THINKING"	0*	✓ (BS EN 1155)	✓	783mm
TS93	EN 2-5	1250mm		✓	ITT120, MM/IMM240	✓	✓	✓	✓	"THINKING"	0*	✓ (BS EN 1155)	✓	767mm
TS93	EN 5-7	1600mm		✓	ITT120, MM/IMM240	✓	✓	✓	✓	"THINKING"	0*	✓ (BS EN 1155)	✓	†
TS92	EN 2-4	1100mm		✓	ITT120, MM/IMM240	✓	✓	✓	✓	"THINKING"	0*	✓ (BS EN 1155)	✓	733mm
TS91	EN 3	950mm		✓	ITT120, MM/IMM240	✓	✓	✓	✓	"THINKING"	0*	✓ (BS EN 1155)	✓	867mm
TS90	EN 3	950mm		✓	ITT120, MM/IMM240	✓	✓	✓	✓	"THINKING"	0*	✓ (BS EN 1155)	✓	926mm
ITS96 (Concealed)	EN 2-4	1100mm	100kg	✓	ITT60, MM/IMM240	✓	✓	✓	✓	"THINKING"	0*	✓ (BS EN 1155)	✓	733mm
ITS96 (Concealed)	EN 3-6	1400mm	180kg	✓	ITT60, MM/IMM240	✓	✓	✓	✓	"THINKING"	0*	✓ (BS EN 1155)	✓	867mm
Rack & Pinion Door Closers														
TS83 BC DC	EN 2-5	1250mm		✓	ITT120, MM/IMM240	✓	✓	✓	✓	"THINKING"	0*	✓		833mm
TS83 BC	EN 2-5	1250mm		✓	ITT120, MM/IMM240	✓	✓	✓	✓	"THINKING"	0*	✓		833mm
TS83 BC DC	EN 3-6	1400mm		✓	ITT120, MM/IMM240	✓	✓	✓	✓	"THINKING"	0*	✓		983mm
TS83 BC	EN 3-6	1400mm		✓	ITT120, MM/IMM240	✓	✓	✓	✓	"THINKING"	0*	✓		983mm
TS73V	EN 2-4	1100mm		✓	ITT120, MM/IMM240	✓	✓	✓	✓	"THINKING"	0*	✓ (BS EN 1155) Size EN 4/5/6		792mm
TS72V BC	EN 2-4	1100mm		✓	ITT120, MM/IMM240	✓	✓	✓	✓	"THINKING"	0*	✓		833mm
TS71	EN 3/4	1100mm		✓	ITT120, MM/IMM240	✓	✓	✓	✓	"THINKING"	0*	✓		†
TS68	EN 2/3/4	1100mm		✓	ITT120	✓	✓	✓	✓	"THINKING"	0*	✓		†
Floor Springs														
BTS75 V	EN 1-4	1100mm	120Kg	✓	ITT60, MM/IMM240	✓	✓	✓	0	FIXED	0*	✓		767mm
BTS80	EN 3/4/6	800mm/ 1100mm/ 1400mm	300Kg	✓	NO FIRE RATING		✓	✓	✓	FIXED	Adjustable	✓		†
BTS80 F	EN 4/5/6	1100mm/ 1250mm/ 1400mm	300Kg	✓	ITT60, MM/IMM240	✓	✓	✓	✓	FIXED		✓ (BS EN 1155)	✓	†

*Mechanical Hold open option is only suitable for non-fire rated doors. 0 = Option

† Does not comply with the requirements of ADM/Section 3/Part R/BS8300 either due to the high closing force or being a fixed sized unit.

Electro-magnetic and Free Swing Solutions

PRODUCT	SIZE	Max. Door Width	Max. Door Weight	BS EN 1154 & 1155	CERTIFIRE	CE Marked	Adjustable Sweep Speed	Adjustable Latching Speed	Adjustable Delayed Action	Backcheck	EMF Hold Open	Free Swing	GSR Integral Door Co-ordinator Version	ADM/Section 3/Part R & BS8300 Compliant
Cam Action Door Closers														
TS93 EMF/EMR	EN 2-5	1250mm		✓	ITT120, MM/IMM240	✓	✓	✓	✓	"THINKING"	✓		✓	✓
TS93 EMF/EMR	EN 5-7	1600mm		✓	ITT120, MM/IMM240	✓	✓	✓	✓	"THINKING"	✓		✓	✓
TS92 EMF/EMR	EN 2-4	1100mm		✓	ITT120, MM/IMM240	✓	✓	✓	✓		✓		✓	✓
TS91 EMF/EMR	EN 3	950mm		✓	ITT120, MM/IMM240	✓	✓	✓	✓		✓		✓	✓
TS99	EN 4	1100mm		✓	ITT120, MM/IMM240	✓	✓	✓	✓		✓	✓	✓	✓
ITS96 (Concealed)	EN 2-4	1100mm	100kg	✓	ITT60, MM/IMM240	✓	✓	✓	✓		✓		✓	✓
ITS96 (Concealed)	EN 3-6	1400mm	180kg	✓	ITT60, MM/IMM240	✓	✓	✓	✓		✓		✓	✓
Rack & Pinion Door Closers														
TS73 EMF	EN4/5/6	1400mm		✓	ITT120, MM/ IMM240	✓	✓	✓	✓		✓		✓	✓
TS73 EMF Free Swing	EN4/5/6	1400mm		✓	ITT120, MM/ IMM240	✓	✓	✓	✓			✓		✓
Floor Springs														
BTS80 EMB	EN4/5/6	1400mm	300kg	✓	ITT60, MM/ IMM240	✓	✓	✓	✓	FIXED	✓		✓	✓
BTS80 FLB	EN4/5/6	1400mm	300kg	✓	ITT60, MM/ IMM240	✓	✓	✓	✓	FIXED	✓		✓	✓

EMF/EMB = Includes electro-magnetic hold-open unit for fire doors when linked with a fire alarm system. For more information see p14.

EMR = Features as EMF plus integral smoke detector and control unit. For more information see p14.

Free Swing = Enables a door to operate without any resistance. For more information see p14.

Founded in 1908, DORMA is one of the largest manufacturers of manual and automatic door systems in the world, with production facilities on four continents. Our name has become a byword for the very highest standards of quality, design, innovation and service.

In the UK, DORMA consists of five specialist divisions offering:

- Door Controls
- Automatic Doors and Operators
- Glass Fittings and Systems
- Door Service and Maintenance
- Movable Walls

Door Controls and Ironmongery

	Regulatory Parts		
Performance	England & Wales - approved documents	Scotland - Sections	Northern Ireland - Technical booklets
Fire Safety	B	2	E
Accessibility	M	3	R

In the door controls and ironmongery industry DORMA is justifiably renowned as the market leader. Our door closers, lock, fire protection systems and panic hardware set the benchmark.

DORMA have a wide range of closers that meet the requirements of the Accessibility & fire regulations.

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For full technical specification of the products featured in the Specifiers Guide please consult the DORMA Door Controls binder.

Specification

Correct specification of ironmongery is not merely an aesthetic consideration, it has a real impact on how successful a building will be. Independent studies by PSA research show that where doors and their ironmongery represent as little as 1% of a building's cost, they can account for 80% of the total maintenance bill once the building is in use. With this in mind DORMA offers advice on specification by our GAI (Guild of Architectural Ironmongers) qualified consultants.

Distribution

The door control products featured here are supplied by **DORMA UK Limited - Door Controls Division** through a nationwide network of partners and distributors. They can offer advice and scheduling for all of your ironmongery requirements.

Warranty

DORMA's service does not end when a project is finished either. Our Specification Schedule continues to add value with an extended warranty of ten years on DORMA door control products specified (provided the schedule is adhered to and products are not substituted).

Coupled with the range of maintenance programmes on offer from **DORMA UK Limited - Service Division** it will guarantee the long life and service of your door control equipment.

CPD Seminars

In order to further enhance your understanding of door controls in relation to fire safety and the Disability Discrimination Act, we can organise a CPD presentation at your premises.

Showbus

If you would prefer to see and touch the products we can arrange a visit by our showbus.

Door Closer Types

- Cam action: a unique mechanism combined with a slide channel, they offer maximum aesthetics and ease of use.
- Rack and Pinion: combined with a projecting arm, they are the traditional door closer.
- Floor Springs: door closers concealed in the floor.



Power Size

The power size of a door closer should be selected based on the size and weight of the door. Closers may be available in fixed sizes, (e.g. EN 3/4), with the size selected at the point of installation, or variable (e.g. EN 2-5) where the size can be varied after installation.

Speed

- Adjustable sweep speed - allows the speed at which the door closes to be varied to suit the site conditions.
- Adjustable latching speed - allows the speed of the door to be varied over the last few degrees to help overcome air pressure, latches and edge seals, ensuring that the door closes properly.
- Adjustable delayed action - when the door has been opened it allows the closer to wait or move slowly through 90° - 70°. This gives people time to get through the doorway before it then closes at normal speed.

Backcheck

Thinking backcheck - the resistance of the door closer to being opened is in direct proportion to the door acceleration as it is opened. This helps protect the door and surrounding area from damage.

BS EN 1154 - Controlled door closing devices

This standard gives the minimum performance levels for door closing devices, in relation to door width and mass. It also classifies closers for general suitability for use on fire doors, safety in use, and corrosion resistance. Closers must complete 500,000 opening and closing cycles without loss of performance or significant wear. The standard requires that closers fitted to fire doors be no less than size EN 3. Adjustable closers must be able to achieve this minimum.

Disability Discrimination Act, BS8300 and Approved Document M^{††}

The Disability Discrimination Act introduced new laws and measures aimed at ending the discrimination that many people with disabilities face. From 1st October 2004, it became necessary to remove physical barriers that prevent people with disabilities from using a service.

The DDA also encompasses BS8300 and Approved Document M^{††} which set out various requirements in respect of door opening forces on all door types within a building. These opening forces, when measured at the leading edge of the door should not provide more than 30N from 0 to 30 degrees and 22.5N from 30 to 60 degrees during their opening cycle. To assist in specifying door closers which will help doorsets meet this requirement. **DORMA can provide Third Party Accredited torque curves which detail their opening forces throughout the opening cycle.**

As required by the UK construction product regulations, all DORMA door closers for fire doors are CE marked.



^{††}See p5 for a summary table of UK National Fire Safety & Accessibility Regulations

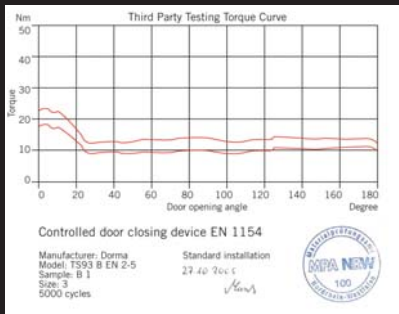
Cam action door closers



TS93 Cam action closer

DORMA has set new standards with its unique cam action door closers. Unlike rack and pinion closers, the cam action closer with its linear drive mechanism and heart-shaped cam ensures that the resistance encountered when opening the door decreases almost instantly within the first few degrees of the opening action. So even children, the elderly and people with disabilities have fewer problems in opening the door; an important consideration in helping to meet the requirements of BS8300 and Approved Document M^{††}.

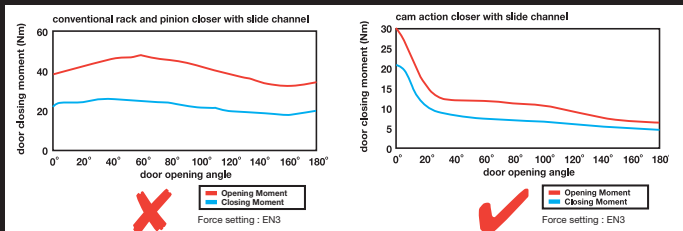
The DORMA cam action range can help doorsets meet the opening



force requirements of BS8300 and Approved Document M^{††} on a range of door widths. Third Party Accredited Certification can be provided to demonstrate these low opening forces and are available on our website. Ask for our Which Door Control? brochure

The aesthetics of a cam action closer are enhanced by the use of the slide channel, rather than a conventional scissor arm. It is also safer in high security situations.

Beware of imitations! A rack and pinion closer combined with a slide channel may offer the aesthetic benefits, however it actually becomes harder to open as you pull or push the door, thus failing to meet the requirements of BS8300 and Approved Document M^{††}.





TS92 Cam action closer

General Features

- Cam action technology
- Slide channel arm
- Adjustable sweep speed
- Adjustable latching speed
- EMF electro-magnetic hold-open unit available†
- EMR electro-magnetic hold-open with integral smoke detector version available†
- Successful independent testing to BS EN 1154
- CERTIFIRE approved for fire doors - CF119 ITT120, MM/IMM240
- CE Marked
- Contur Design as standard, plus a choice of finishes & covers (see page 17)
- Option: Mechanical hold-open must **not** be used for fire doors

†TS91, TS92 and TS93 only

Specific Features

TS90

- EN 3
- Max. door width: 950mm
- Will exert an opening force of 30N or less when fitted to a fire door (size EN3) width 926mm* and above.

TS92

- EN 2-4
- Adjustable closing force
- Max. door width: 1100mm
- Will exert an opening force of 30N or less when fitted to a fire door (size EN3) width 733mm* and above.

TS91

- EN 3
- Max. door width: 950mm
- Will exert an opening force of 30N or less when fitted to a fire door (size EN3) width 867mm* and above.

TS93

- EN 2-5 or EN 5-7
- Max. door width: 1250mm (EN2-5) 1600mm (EN5-7)
- Will exert an opening force of 30N or less when fitted to a fire door (size EN3) width 767mm* and above. (EN 2-5 unit only)
- Adjustable closing force
- Adjustable delayed action
- Adjustable back check



*Min door width allowing 0.4Nm for hinge resistance and closer set at EN 3

††See p5 for a summary table of UK National Fire Safety & Accessibility Regulations

Cam action door closers

TS97

The TS97 is the smallest surface-mounted cam-action closer available in the project sector with an overall depth of just 37mm and a height of 49mm. The straight lines of its cubic form and striking "Contur" profile give a modern, yet functional design. There is also a wide range of surface finishes available to enable discrete integration with architectural concepts.

Features

- Cam action technology
- EN 2-4
- Max door width 1100mm
- Will exert an opening force of 30N or less when fitted to a fire door (size EN3) width 783mm* and above.
- Slide channel arm
- Adjustable sweep speed
- Adjustable latching speed
- Uniform lengths of body and slide channel for enhanced harmony of appearance
- Successful independent testing to BS EN 1154
- Certifire approved for fire doors - CF119 ITT120/MM/IMM240
- CE Marked
- Option: Mechanical hold-open must **not** be used for fire doors



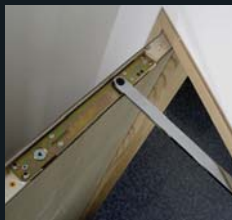
Concealed cam action door closers

ITS96

Offering all the benefits of a cam action door closer, whereby the door opening force rapidly falls away within the first few degrees of the opening action, the ITS96 ensures that prestigious doors retain all their inherent aesthetics, because the closer is concealed within the door leaf and frame.

Features

- Concealed closer
- Cam action technology
- EN 2-4 or EN 3-6
- Max. door width: 1100mm (EN 2-4) 1400mm (EN 3-6)
- Will exert an opening force of 30N or less when fitted to a fire door (size EN3) and 733mm* (EN2-4) and 867mm (EN3-6) .
- Slide channel arm
- Adjustable closing force
- Adjustable sweep speed
- Adjustable latching speed
- EN 2-4 closer also available in a double action version
- EMF electro-magnetic hold-open version available
- GSR integral door co-ordinator available
- Successful independent testing to BS EN 1154
- CERTIFIRE approved for fire doors - CF140 ITT60/MM/IMM240
- CE Marked
- Option: Mechanical hold-open - must **not** be used for fire doors

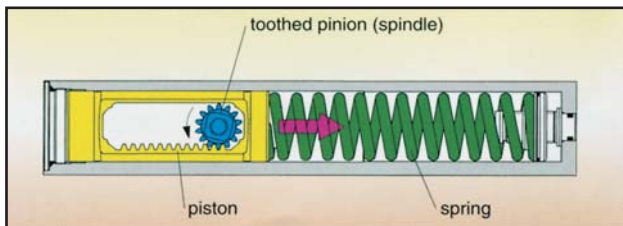


*Min door width allowing 0.4Nm for hinge resistance and closer set at EN 3.

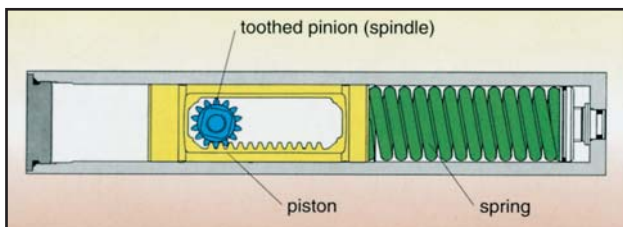


DORMA offers a wide range of conventional rack and pinion door closers with projecting arms.

The rotary movement of the spindle is converted into linear movement of the spring. When the door is released, the spring returns to its original length, thereby closing the door.



Section through rack and pinion closer:
the spring is not yet compressed
- door closed position.



Section through rack and pinion closer:
the spring is compressed
- door open position.

Rack & pinion door closers

All DORMA rack and pinion door closers are:

- Successfully independently tested to BS EN 1154
- CERTIFIRE approved for fire doors** ITT120 MM/IMM240
- CE Marked



TS83 BC Features

- EN 2-5 and EN 3-6
- Max. door width: 1250mm/1400mm
- Will exert an opening force of 30N or less when fitted to a fire door (size EN3) width 833mm/983mm* and above
- "Thinking" backcheck
- Adjustable sweep speed
- Adjustable latching speed
- Adjustable closing force
- Option: Mechanical hold-open - must **not** be used for fire doors



TS83 BC DC Features

as above plus:

- Adjustable delayed action

TS73 V Features

- EN 2-4
- Max. door width: 1100mm
- Will exert an opening force of 30N or less when fitted to a fire door (size EN3) width 792mm* and above
- "Thinking" backcheck
- Adjustable sweep speed
- Adjustable latching speed
- Adjustable closing force
- Option: Mechanical hold-open - must **not** be used for fire doors



TS72 VBC Features

- EN 2-4
- Max. door width: 1100mm
- Will exert an opening force of 30N or less when fitted to a fire door (size EN3) width 833mm* and above
- "Thinking" backcheck
- Adjustable sweep speed
- Adjustable latching speed
- Adjustable closing force
- Option: Mechanical hold-open - must **not** be used for fire doors



TS71 Features

- EN 3 / 4
- Max. door width: 1100mm (EN 4)
- Adjustable sweep speed
- Adjustable latching speed
- Selectable closing force
- Option: Mechanical hold-open - must **not** be used for fire doors



TS68 Features

- EN 2 / 3 / 4
- Max. door width: 1100mm (EN4)
- Adjustable sweep speed
- Adjustable latching speed
- Selectable closing force
- Option: Mechanical hold-open - must **not** be used for fire doors



* Min door width allowing 0.4Nm for hinge resistance and closer set at EN 3

Fire Doors

Fire doors are designed to contain a fire within the area it started, giving people time to escape the building and limiting the fire damage.

Therefore all fire doors must be self-closing and capable of staying closed. All DORMA door closers, locks and panic hardware have been fire tested and approved by CERTIFIRE to ensure that they are fit for purpose.

What is CERTIFIRE?

CERTIFIRE is a third party certification authority originally set up by Warrington Fire Research and the British Standards Institution.



It specialises in certification for a wide range of passive fire protection products which includes fire doors and their hardware.

To gain CERTIFIRE approval for use on a fire door:

- Items of door hardware must have been included in successful fire door tests
- They must be independently tested against the relevant BS EN or BS, to ensure their durability and safety
- They must be manufactured on quality assured production lines registered under an ISO 9000 regime

These three requirements give confidence to specifiers, regulating authorities and purchasers, that all relevant aspects of the product have been assessed.

Details

CERTIFIRE approval does not give carte blanche for the use of an item of hardware on any fire door. Check the following:

CF No.	Certificate number issued by CERTIFIRE
ITT120	Suitable for timber fire doors
MM240	Suitable for uninsulated metal doors
IMM240	Suitable for insulated metal doors

The number indicates that some items may be suitable for doors up to 120 mins fire resistance, whereas others may be suitable for up to 240 mins.

Check Certificates

DORMA is always willing to supply copies of certificates relating to their products. Certificates give details of any extra intumescent protection required in the locality of some mortised items. DORMA supplies such extra protection as ready cut gasket packs for those products which require them.

BS EN 1155

Electrically powered hold open devices for swing doors.

Covers both hold open magnets and electro-magnetic devices incorporated into door closers. To comply, the devices must be capable of both manual and electric release. Any door closing element must comply with BS EN 1154.

Electro-magnetic door closers



Hold-open solutions

Fire doors may be required in situations such as corridors where conventional door closers would provide a nuisance to the flow of traffic, and may lead to people wedging the door open. To avoid this, there are three options;

- Electro-magnetic door closers
- Free swing closers
- Hold-open magnets.

Electro-Magnetic Door Closers

DORMA offers a range of door closers that can hold a door open at any angle between 75⁰-180⁰ by means of an electro-magnetic control. If there is a fire alarm or a power cut, the hold-open is released and the door becomes self-closing once more.

Free Swing Option

This feature allows the door to operate without the resistance of a door closer. This is the ideal solution where an individual needs ease of access to and from their rooms or may even prefer to leave the door open (e.g. residential care homes). However, in the event of a fire or power failure, the door will close securely.

TS73 EMF Features

- **Electro-magnetic hold-open** unit for fire doors when linked with a fire alarm system
- EN 4/5/6
- Max. door width: 1100mm (EN 4) 1250mm (EN 5) 1400mm (EN 6)
- Adjustable sweep speed
- Adjustable latching speed
- **Free swing** option available
- Successful independent testing to BS EN 1154 and BS EN 1155
- CERTIFIRE approved for fire doors: CF117 ITT120/MM/IMM240
- CE Marked



Also available: **TS93, TS92 and TS91** in EMF, EMR and GSR versions.

(see pages 8 - 9).

ITS96 in EMF and GSR versions. (see page 10).



TS99 Free swing door closer

Similar to the TS73 EMF free swing door closer, the TS99 has a slide channel for improved aesthetics.



TS99

TS99 Features

- EN4
- Max door width 1100mm
- FL: can be linked to smoke detection system
- FLR: complete with intergrated smoke detector



- CERTIFIRE approved for fire doors
ITT120/MM/IMM240

Hold-Open Magnets

An alternative to electro magnetic door closers, is the use of EM Hold-open magnets which can be used in conjunction with conventional door closers or floor springs. If there is a fire alarm or power cut, the hold-open is released and the door becomes self-closing once more.

EM Features

- Surface or flush mounted
- 100N or 500N holding force
- Polarity reversal protection
- Successful independent testing to BS EN 1155
- Power supply unit available separately (DORMA PSU8)
- CE Marked



EM

Miscellaneous

products

Transom Closer

The DORMA RTS85 is a transom concealed door closer for both double and single action doors.



RTS85

RTS85 Features

- Transom concealed closer
- EN 3/4/5
- Max. door width: 950mm (EN 3)
1100mm (EN 4)
1250mm (EN 5)
- 2 valve control of closing speed
- Cushioned backstop
- Hold-open option
- Successful Independent testing to EN 1154

Door Co-ordinators

The DORMA range of SR **door co-ordinators** ensures the correct sequence of door closing for pairs of doors with rebated meeting stiles. They have successful independent testing to BS EN 1158 and are CE marked.

Floor springs



BTS75V

Floor springs are completely concealed in the floor and provide a flush installation that will perfectly complement the design of any door. Floor springs can operate single and double action fire and smoke resisting doors as well as coping with heavy duty doors. Available in satin stainless steel and satin brass finishes.

BTS75 V Features

- EN 1-4
- Max. door width: 1100mm
- Will exert an opening force of 30N or less when fitted to a fire door (size EN3) width 767mm and above
- Max. door weight: 120Kg
- Adjustable closing force
- 2 valve control of closing speed
- Fixed backcheck
- Adjustable sweep speed
- Adjustable latching speed
- Delayed action option
- Successful independent testing to BS EN 1154
- CERTIFIRE approved for fire doors CF127 ITT60/MM/IMM240
- CE Marked
- Option: Mechanical hold-open - must **not** be used for fire doors



BTS80 Features

- EN 3/4/6
- Max. door width: 950mm (EN 3) 1100mm (EN 4) 1400mm (EN 6)
- Max. door weight: 300Kg
- 2 valve control of closing speed
- Fixed backcheck
- Adjustable sweep speed
- Delayed action
- Adjustable hold-open*
- Successful independent testing to BS EN 1154

Suitable for fire doors:

- BTS80 F/FP** (single and double action available)
- BTS80 EMB electro-magnetic hold-open**
- BTS80 FLB free swing**

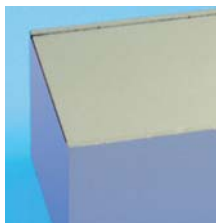


* For non-fire rated doors only

** CERTIFIRE approved for fire doors - CF127 ITT60/MM/IMM240 and CE marked

†† See p5 for a summary table of UK National Fire Safety & Accessibility Regulations

Covers



Standard format cover



Full square metal cover



Full softline metal cover

Finishes



Satin stainless steel



Polished brass



Polished chrome

When specifying DORMA Door Closers you can choose between a number of different cover and finish options to suit your design.

For the TS91 / TS92 / TS93 closers three formats are available:

- Contur Design (standard cover design in silver, stainless steel, polished brass or colour coated options.)
- Full softline metal cover with Contur slide channel
- Full square metal cover with Contur slide channel



Contur Design

For the TS71 / TS72 VBC / TS73 / TS83 closers finishes are available in three formats:

- Standard cover with threaded arm (silver or gold only)
- Full square metal cover with flat form arm
- Full softline metal cover with flat form arm

Metal cover finishes are:

- Satin stainless steel
- Polished brass
- Polished chrome
- Silver

In addition to the metal cover finish options, DORMA covers are available in the following colour coated options:

Coffee Brown, Pure White, Buttercup Yellow, Ruby Red, Burgundy, Ultra Marine Blue, Steel Blue, Forest Green, Meadow Green, Jet Black, Anthracite Grey, Stone Grey, Light Grey. Other colours are also available upon request.



TS71 with flat form arm

DORMA offers a full range of devices for virtually any emergency exit installation in which security, reliability and appearance are considerations.

BS EN 1125 - panic exit devices operated by a horizontal bar.

Ensures safe and effective escape through a doorway with **minimum effort and without prior knowledge** of the device. Body pressure alone must operate the bolt(s) and open the door.

BS EN 179 - emergency exit devices operated by a push pad.

Push pad applications are realised where people are familiar with the exit and its hardware.



AD4000 series touchbar

- Available in a range of architectural metal finishes
- Full door width touchbar
- Stainless steel deadlocking Pullman type latches
- Hex key or cylinder dogging
- Special options for solenoid operation and monitoring switches
- Successful independent testing and CE marked to BS EN 1125
- CERTIFIRE approved for fire doors CF 279



AD4300

PHB3000 series touchbar

- Full door width touchbar
- Standard zinc or steel Pullman type latches
- Optional dogging device as standard
- Special options for solenoid operation and monitoring switches
- Successful independent testing and CE marked to BS EN 1125
- CERTIFIRE approved for fire doors CF 319



PHA2000 series crossbar

- Heavy duty crossbar
- Available with zinc or steel Pullman latches
- Available with steel shoot bolts (PHA2220)
- Optional dogging device as standard
- Successful independent testing and CE marked to BS EN 1125
- CERTIFIRE approved for fire doors CF 318



PHA2500 series crossbar

- Full door width crossbar incorporating an emergency escape lock
- Suitable for use in conjunction with a range of OGRO ZS lever handles
- Successful independent testing and CE marked to BS EN 1125



PHA exit pad

- May be used as a stand alone product or combined with the PHA2000 series to provide 3 point locking.
- Zinc or steel latch
- Successful independent testing and CE marked to BS EN 179
- CERTIFIRE approved for fire doors CF 318





Locks

DORMA locks are designed so that all the internal workings are contained within new revolutionary cassettes to give maximum functionality and reliability.

The latch and handle are independently sprung. As a result the latch is lightly sprung to ensure that the door will fully close and latch with a lower door closer power setting. This is vital when considering ADM/BS 8300 compliance^{††}:

The handle is tightly sprung to ensure it always returns to its original position.

Select from either the Premier or Contract range.

All DORMA locks are CERTIFIRE tested and approved.



Disability

Discrimination Act

Disability Discrimination Act

The Disability Discrimination Act introduced new laws and measures aimed at ending the discrimination that many people with disabilities face. From 1st October 2004, it became necessary to remove physical barriers that prevent people with disabilities from using a service.

The DDA also encompasses BS8300 and the Approved Document M^{††} which set out various requirements in respect of door closing devices on all door types within a building. Door closers should be selected that meet the maximum opening forces set out in BS8300: 2009, and Approved Document M^{††}. "The opening force, when measured at the leading edge of the door should not be more than 30N from 0° (the door closed position) to 30° open, and no more than 22.5N from 30° to 60° of the opening cycle".

Design

Building designers must therefore consider the design implications of accessibility in planning new buildings. Considering the DDA's requirements at the planning stage prevents the need for expensive

^{††}See p5 for a summary table of UK National Fire Safety & Accessibility Regulations

and time-consuming alterations after completion. If they have not already done so service providers should audit their existing buildings for compliance. Careful planning can ensure that alterations be included within existing building maintenance budgets.

Products

DORMA offers a range of products that assist with access both into and around the building, and so help meet the requirements of the DDA.

Fire doors

Since fire doors need to be fully closed at the time of a fire in order for them to function properly, they normally present an accessibility problem because permanently closed fire doors are an obstacle to people with disabilities. DORMA have a range of products that offer a solution to this problem, allowing free access under normal circumstances with the reassurance that the door will close in the event of a fire emergency:

- **Hold-open closers**

DORMA electro-magnetic hold-open closers enable the door to be held open at any angle between 75°-180° by means of an electro-magnetic control. In the event of an alarm or a fault in the power supply, the electro-magnetic hold-open is released and the door is closed by the door closer. DORMA surface mounted closers, concealed door closers and floor spring ranges include models with an electro-magnetic hold-open tested to BS EN 1155.

- **Hold-open magnets**

As an alternative to a door closer with electro-magnetic hold-open, DORMA EM hold-open magnets can be used in conjunction with conventional closers to provide similar benefits. These may be surface-mounted or flush-mounted onto the wall.

- **Cam action closers**

Door closer mechanisms also play a major role in keeping door opening forces to a minimum. Where conventional door closers have to be used, cam action closers are preferable to conventional rack and pinion closers since the action of the cam and the slide channel mechanism makes them smoother and easier to open. On operation of the door the opening force falls away very rapidly after the first few degrees resulting in very little resistance throughout the opening cycle so that even children, the elderly and people with disabilities have fewer problems opening the door.

- **Free swing closers**

Ideal for individual room access in hospitals or residential care situations, electro-magnetic door closers equipped with a free swing facility allow a fire door to operate without resistance, in the same way as doors without a door closer, enabling people with a disability to circulate more freely between rooms. However, in the event of a fire or power failure, the door will close securely.

Emergency Egress

By their nature many emergency escape doors are tucked away at the bottom of stairways or at the end of corridors, and are seldom used. However it is important that they can be operated by a person with a disability in an emergency. Full door-width touchbars such as the DORMA AD4000 or PHB 3000 series require less force to operate compared with traditional tubular designed bars. They can be linked to an ED 800 low energy door operator to ensure that wheelchair users can exit unaided through emergency exit doors.

Contact

All DORMA sales staff are trained on the issues relating to the DDA and our dedicated DDA product specialist can be contacted to provide solutions to your specific access needs.



Automatic Doors

- Straight and curved sliding doors
- Space-saving and folding doors
- Swing doors
- Low energy swing doors
- Revolving doors

Email: autos@dorma-uk.co.uk



Glass

- Glass patch fittings
- Glass systems including:
 - Manet
 - Horizontal Sliding Walls
- Structural glazing systems
- Washroom systems including:
 - Shower enclosures
 - Glass WC cubicles

Email: glass@dorma-uk.co.uk



Movable Walls

- Partitioning systems with sound resistance
- Glazed partitioning walls
- Dividing curtains and protective nets for sports halls

Email: movablewalls@dorma-uk.co.uk



Service

- Manual doors
- Automatic doors
- Industrial doors
- Security and locks

Email: service@dorma-uk.co.uk

DORMA UK Limited, Door Controls Division has comprehensive brochures on each of the products featured in this guide. To receive further details, please complete and return this information request form.

- Door closer features - page 6
- Cam action door closers - page 8 - 10
- Concealed door closers - page 10
- Rack & pinion door closers - pages 11 & 12
- Fire doors/CERTIFIRE - page 13
- Electro-magnetic door closers - page 14
- Miscellaneous products - page 15
- Floor springs - page 16
- Finishes - page 17

Panic hardware - page 18

Locks - page 19

Disability Discrimination Act - page 19

Other DORMA products:

Automatics - page 21

Glass systems and fittings - page 21

Service and maintenance - page 21

Movable walls - page 21

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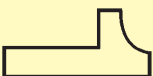
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