



Uniclass L4181	EPIC D181
Cl/SfB (31.59)	X

March 2008



The Specifiers Guide

Automatic and Revolving Doors

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For full technical specification of the products featured in the Automatic Doors Specifiers Guide please consult the DORMA Automatic and Revolving Doors binder



DORMA UK Headquarters in Hitchin, Hertfordshire.

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
- Automatics
- Glass
- Service
- Movable Walls

Automatics

DORMA offers a total range of automatic slide and swing doors. If operating space is an issue then our folding or space-saving doors provide the perfect solution. We also offer a complete range of both manual and automatic revolving doors.

Through **DORMA Automatics Division** we offer a supply and fix service for complete door packages using our own team of highly trained engineers ensuring all the relevant safety standards are complied with.

CPD Seminars

In order to further enhance your understanding of the issues relating to the specification of doors, we can organise a presentation of one of our CPD's at your premises.

- Disability Discrimination Act
- Automatic Doors: Safety by Design
- Modern Door Controls
- Movable Walls - Making a Sound Decision in Operable Walls

Sliding doors



DORMA ES200

The new DORMA ES 200 automatic sliding door operator offers a range of features that not only makes it the ideal automatic unit for every sliding door application, but it also sets standards for others to follow.

Combining new technology with a new visual appearance the DORMA ES 200 offers great flexibility to complement any design, available in three different cover sizes (200, 150 and 100mm) the unit is ideal for both new installations and retrofit projects.

Self assessment of the DORMA ES 200 is continuously achieved through the use of an intelligent microprocessor which measures the opening and closing speeds of the unit each time a cycle begins, ensuring the highest possible safety for users at all times. The microprocessor also controls the self testing function of the electromagnetic locks to ensure that security requirements are also met.

Features

- Available as a single slider, bi- parting or telescopic unit.
- A powerful yet smooth motor provides virtually silent operation.
- Highly adjustable operation settings ensures the door movements can be tailored to specific requirements.
- New programming functions allow for quick and easy installation, set-up and maintenance.
- A universal suspension system suitable for all glass, framed, metal, timber and plastic doors.

Sliding doors



DORMA ES200



DORMA ES200

Sliding doors



BST

BST Curved sliding door system

DORMA BST is a complete curved sliding door package which creates an extremely impressive entrance and occupies significantly less space than a traditional straight sliding door.

The unit is available in a wide range of sizes and in segment or semi-circle configurations offering designers and architects the ultimate in design flexibility. In addition the slimline frame of BST gives the unit a very attractive "all-glass" appearance.

The power train for the BST package is the reliable DORMA ES curved sliding door operator which is derived from the tried and tested ES range of straight sliding door operators.

In addition to forming part of the complete BST package, the ES operator is also available as a separate curved sliding door operator.

Features

- A wide range of curved sliding door designs, ranging from gentle curves to semi-circles
- Either a bi-parting arc segment catering for door openings of 1000 to 2500mm or a biparting semi-circle catering for door openings of 1000 to 2500mm
- An all-purpose suspension for unframed glass
- Highly adjustable operation, ensuring that the door movements can be tailored precisely to an application's specification
- A powerful yet quiet motor, accurately guided actuator rods and a smooth running trolley with fully adjustable suspensions
- A comprehensive safety system



ED 200i

ED 200i - In head swing door operator

DORMA ED 200i is the ideal automatic swing door operator where aesthetics are important, fitting almost invisibly into the transom above a door or pair of doors. Furthermore, ED 200i does not require an arm to operate the door, making the unit even less conspicuous.

DORMA ED 200i also offers an optional breakout facility, enabling unhindered and rapid exit in either direction in case of an emergency. A special catch system switches off the door's powered operation if the door is pushed open in the opposite direction to the norm. This catch can be reset easily, allowing normal automatic door operation to recommence with the minimum of delay and fuss.

Features

- An almost invisible unit, fitting into the transom above the door(s)
- No arm required to open and close the door
- Suitable for a wide range of applications, with facilities for connecting external devices as standard
- Powered door operation with an hydraulic closing mechanism
- A comprehensive range of safety features utilising the IRS range of safety equipment
- A powerful unit providing reliability even under heavy usage
- An optional breakout facility, allowing the door to be manually pushed open in the opposite direction to the normal automatic opening

Swing doors



ED 200 Swing door operator

DORMA ED 200 is an all purpose automatic swing door system which is ideal for internal and external doors alike.

A compact swing door operator ED 200, is perfect for both new build and retro-fitting to existing doors. It is encased in an attractive "Softline" cover or, alternatively pairs of ED 200 operators can be housed in a continuous aluminium cover, thereby offering complete design flexibility.

Features

- A comprehensive range of arm types, together with a wide selection of activators, suitable for a wide range of applications, with facilities for connecting external devices as standard
- The ability to push or pull the door, with a special pull slide arm where space is restricted
- Powered open operation, with a hydraulic closing mechanism. The closer is adjustable from spring sizes EN 4-6, covering almost every application
- A comprehensive range of safety features utilising the IRS range of infra red safety equipment
- A powerful unit providing functional reliability even under heavy usage



FFT Folding door operator

DORMA FFT is a complete door system powered by the highly reliable DORMA ES sliding operator.

An important feature of the FFT folding door is that it occupies the minimum of the door opening width and extremely little in depth. This makes it especially suitable for narrow door openings, passageways and for other locations where space is limited.

DORMA FFT also features a monitored battery backup system, ensuring at all times that the power pack is sufficiently charged to open the door in case of power to the unit failing.

Features

- An aesthetic and cost effective means of access, especially when the maximum door opening is required in narrow locations
- Clearly defined system responsibility.
- The best possible utilisation of awkward layout or restricted space
- No floor track requirement for internal applications, enabling unbroken floor finishes
- A unit catering for opening widths from 800mm to 2000mm
- A comprehensive safety system

Space-saving doors



RST Space-saving door operator

The unique special swivelling action, elegant design and excellent space-saving characteristics have resulted in DORMA RST being the choice of the discerning designer.

The supporting structure and the open door occupy only a hand's breadth, and even at it's maximum, the sweep of the door is only a few centimetres outside the door line.

Features

- A door system powered by the highly reliable DORMA ED 200 swing door operator, which powers the door open and uses a hydraulic mechanism for closing
- Facilities for connecting to external devices as standard
- A powerful unit providing functional reliability even under heavy usage
- Simple installation, whether in new or existing buildings
- Clearly defined system responsibility from a complete door system



HSW-EM

DORMA's HSW-EM is an innovative automatic glass sliding shopfront and partition system which enables architects and designers to create entrances and display windows which can melt away into thin air at the touch of a button. Whenever the proprietor decides, the panels can be moved away with no effort, taking away the barrier between potential customers and the shop's goods and services.

HSW

The system is also available as a manual system with the panels being moved by hand into the stacking area.

Any or all of the sliding panels can be equipped to act as single or double action swing doors allowing the design to cope with a variety of traffic flows when the system is closed. When the system is opened the doors and panels are stored in parking bays.

Features

- Automatic sliding glass partition system which is ideal for shop fronts and internal partitions
- Panels can be moved with no effort at the push of a button
- Fixed or sliding panels
- Ceiling mounted, so there are no floor channels or guides; no obstacles to trip over and no dirt traps
- Can cope with complex designs including curves
- Available with all glass or framed panels

Revolving doors



Revolving doors

DORMA revolving doors create an impressive entrance to a building that is ideal for use in high traffic areas such as hotels, offices, shopping centers, supermarkets and airports.

A revolving door can act as an airlock keeping out draughts, noise, dust and dirt. This can be achieved using less space than a conventional lobby with swing or sliding doors.

They can be tailored to the specific needs of the installation in terms of size, drum type, operation, number of door wings and finish.

Features

- Improved interior working environment
- Reduced building maintenance costs for heating and air-conditioning
- Available with night security doors and additional breakout safety system
- 2, 3, or 4 door wing configurations with or without showcases

KTV

- Manual, positional, servo- assist or fully automatic operation
- Inside diameter:
2000-3400mm 3 or 4 wings 3000-3400mm 2 wings
- Clear passage height:
2100-3000mm 3 or 4 wings 2100-2200mm 2 wings

KTC

- Automatic operation
- Inside diameter:
3600-6200mm 3 or 4 wings 3600-4800mm 2 wings
- Clear passage height:
2200-2800mm 3 or 4 wings 2200-2910mm 2 wings



KTV-Atrium

The all glass appearance of the KTV - Atrium is ideal for use with glass facades.

Features:

- Manual, positional, or servo-assist operation
- 3, or 4 door wing
- Inside diameter:
2000- 2800mm (1800 available longer lead time)
- Clear passage height:
2100-2500mm
- Glass construction Roof, 21.5mm clear toughened laminated side walls,
17.5mm clear laminated turnstile, 12mm clear toughened
- Finish: Anodized Satin Stainless Steel Polished Stainless Steel
- Available with night security doors
- Improved interior working environment
- Reduced building maintenance costs for heating and air-conditioning

Low energy swing doors



ED 800 Low energy swing door operator

DORMA ED 800 is the perfect operator for offering increased access and independence to people that would otherwise be restricted by conventional manual swing doors.

This is particularly important as all buildings must comply with the requirements of the Disability Discrimination Act.

ED 800 does not require additional safety equipment in order to operate safely, unlike traditional automatic swing door operators. ED 800 thereby provides inexpensive universal access on both existing and new doors. The reduced and regulated operating speeds and sophisticated intelligence of the ED 800 ensure safety at all times.

Features

- Low energy and power assist operating modes
- Activation via external devices or the push and go facility
- Reliable control of doors from 45-90kg
- Field adjustable closing force.
- The ability to push or pull the door open
- A wide range of activation options
- Microprocessor control allowing a wide variety of users adjustments to be made in the field
- An internal TS83 manual door closer providing safe, reliable closing and precision configuration
- Suitability for retro-fit or new installations



The Disability Discrimination Act

The Disability Discrimination Act 1995 (DDA) has introduced new laws and measures aimed at ending the discrimination that many people face.

Since 1st October 2004, when part three of the act came into force, all service providers have had to make reasonable adjustments to the premises to ensure that all can gain safe and easy access to a building and its facilities.

Design

Building designers must therefore consider the design implications of accessibility when planning new buildings.

It is important that the requirements of the DDA are considered at the earliest stage possible to prevent the need for costly and time-consuming alteration after the project has been completed.

Products

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

Products such as automatic doors, low energy swing door operators and electromagnetic hold open devices can all be incorporated in the building's specification to ensure the building is accessible and meets all the requirements of the Act.

Contact

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

BS 7036: 1996

The British Standard relating to automatic and revolving doors (BS 7036: the Code of Practice for Safety at Powered Doors for Pedestrian use) comprises five sections:

Part 1 : General

Part 2 : Straight and curved sliding doors and prismatic and folding doors

Part 3 : Swing doors and balanced doors

Part 4 : Low energy swing doors

Part 5 : Revolving doors

BS 7036 provides guidance on safety, maintenance and the immediate environment applicable to the increasing number of types of power operated doors (commonly referred to as automatic doors) in general public use.

Summary

For your assistance we reproduce a section of BS 7036 which refers to the environment and management of the doors and, in particular, the initial design specification. This is not a complete reproduction of this section of BS 7036 but, instead, aims to show the responsibilities which now lie with the specifier of the door(s).

4. Environment and management

4.1 Initial design specification

4.1.1 The specifier should ensure that equipment specified for a door installation conforms to the recommendations of this standard.

4.1.2 At the design specification stage, the specifier should seek specialist advice from, and work in close liaison with, the powered door manufacturers or their approved distributors. *The specifier should also consult other relevant authorities (eg. fire and building control authorities, and end user organisations) since each has particular, but related responsibilities.*

4.1.3 It is particularly important that the specifier should establish predicted user characteristics and precise operational requirements to enable account to be taken of the volume and type of pedestrian traffic (such as the elderly, the infirm, disabled persons and young children) that is likely to pass through the particular installation at different times of the day.

4.1.4 It is essential that appropriate safety devices and safety measures are chosen. The specifier should, therefore, ensure that a full Hazard Analysis and Risk Assessment is undertaken to confirm that the final installation is safe for its predicted use.

NOTE. Attention is drawn to the Management of Health and Safety at Work Regulations: 1992. Guidance is available in the Approved Code of Practice - L21, and in BS 5304:1988.

4.1.5 If the Hazard Analysis and Risk Assessment indicates that risk cannot be reduced to an acceptable level using safety devices and safety measures, and a residual risk remains for certain sectors of the population, then additional suitable safety measures should be provided, e.g. installation of an additional manually activated powered door at the side of an automatically activated powered door to provide a more suitable means of entry and exit for the elderly, the infirm and disabled.

4.1.6 There should be no attachments to, or devices incorporated into, powered doors or adjacent areas that would create a potential hazard.

NOTE. Such devices include letter boxes, letter flaps, handles.

4.2 Planning

The specifier should give careful consideration to the design and location of powered door installations.

Extracts from BS 7036: Part 1 : 1996 are reproduced with permission of BSI. Complete editions of the standards can be obtained by post from BSI Customer Services, 389 Chiswick High Road, London W4 4AL. (Telephone 020 8996 7000).

The DORMA Commitment to Safety and BS 7036

DORMA strongly recommends that all installations comply with BS 7036. We will provide customers with every assistance to ensure that the doors that we install operate safely and correctly at all times.

Quotations

Furthermore we state clearly on our quotations the safety equipment for which we have provided a price and, in addition, any areas where we feel that the level of safety should be increased in order to ensure safe door use at all times.



BS7036 'Safety at powered doors for pedestrian use' states that powered doors should be maintained regularly, at six month intervals to the manufacturers specifications.

It is the responsibility of the building owner/occupier to ensure that all powered doors comply with relevant British Standards.

All DORMA engineers take the Automatic Door Suppliers' Association's competency exam which gives them authorisation to carry out maintenance in compliance with British Standards, particularly BS7036 (1996).

As well as allowing people easy access, regular servicing and maintenance will also ensure unwanted visitors are kept out. A well maintained automatic door is a secure door.

The DORMA Service Division of DORMA UK Limited offers a complete maintenance and breakdown service for manual, automatic and industrial doors, as well as windows and movable walls, giving you a single source reference point for solving any type of entrance problem.

Nationwide cover is provided by our team of fully trained and ADSA approved engineers located throughout the UK, which enables us to respond to your calls quickly and efficiently, keeping costs and inconvenience to both yourself and your customers to a minimum, whilst still giving you peace of mind that all work is carried out to the relevant British Standards.

Maintenance agreements, providing regular inspection and maintenance of your door systems are surprisingly inexpensive yet dramatically reduce the risks of your entrances breaking down and affecting your business opportunities. Alternatively, if you do experience a breakdown of self-closing equipment on manual doors, entry control systems or automatic doors call us on **FREEPHONE 0800 212380** and let our technical staff arrange for one of our engineers to visit.

Economic prices, coupled with total commitment to provide you with a quality service makes DORMA Service Division the best solution to your maintenance needs.



DORMA service and maintenance is offered in two different ways:

Reactive Service

If a customer experiences a breakdown or malfunction they can call DORMA in to repair or replace the faulty door at anytime. Our response times aim to get an engineer on site within one working day or receipt of the call. For instance, if a customer calls in the morning we aim to be there in the afternoon, or if the customer calls in the afternoon we aim for the next morning. However, if the breakdown compromises safety or security, then we aim to have an engineer on site as soon as possible. This service is offered 24 hours a day, seven days a week.

Preventative Service

Preventative servicing is offered on a planned contract basis at three different levels:

3 Star

Consisting of two visits per year, this package provides basic adjustments, ensures doors are working correctly without removing them, rectifies any minor faults in closing speeds, sensors, backcheck and latching, and checks compliance of automatic doors with BS7036. After the completion of the service a written report is submitted to the client outlining any major defects or upgrades that are required to ensure the door functions correctly and safely.

All three packages can cover both manual and automatic doors whilst industrial doors are only covered by the 3 Star package.

4 Star

A service visit comprises all the maintenance checks listed in 3 Star Cover above, but in addition all faults rectified on that call-out are free of labour costs. You only pay for the parts – deemed necessary for the safe and correct operation of the door – that need replacing.

5 Star

You get a full year's servicing for one price along with free call outs within working hours (8am-5pm), as required (excluding misuse and abuse). There is no charge at all for parts and labour incurred in the replacement of any worn components during servicing that are deemed necessary for the safe and correct operation of the door.



Door Controls

- Door Closers
- Door Handles
- Locks
- Panic Hardware

Available from:

Door Controls Division

Tel: 01462 477600

Fax: 01462 477601

Email: hardware@dorma-uk.co.uk



Glass

- Glass patch fittings
- Shower door fittings
- Glass systems including:
 - Manet
 - Horizontal Sliding Walls

Available from:

Glass Division

Tel: 01462 477600

Fax: 01462 477601

Email: glass@dorma-uk.co.uk



Service

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

Maintenance and repair by:

Service Division

Tel: 01462 477602

Fax: 01462 477603

Email: service@dorma-uk.co.uk



Movable Walls

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

Available from:

Movable Walls Division

Tel: 01462 477600

Fax: 01462 477601

Email: movablewalls@dorma-uk.co.uk

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

- Sliding doors - page 4 - 7
- Sliding glass partitions - page 8 & 9
- Swing doors - pages 10 & 11
- Space saving & folding doors - pages 11 & 12
- Revolving doors - pages 14 & 15
- Low energy swing doors - page 16
- DDA - Guide to Accessibility - page 17

Other DORMA products:

- Door hardware - page 19
- Glass systems and fittings - page 19
- Service and maintenance - page 19
- Movable Walls - page 19

Please indicate the nature of your enquiry:

- Current Project
- Future Project
- Information Update
- CPD Seminar
- Showbus visit

Name

Position

Company

Address

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Postcode

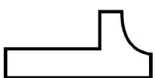
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