

# DORMA

Creating  
accessible  
entrances



## DORMA – providing safe and easy building access for all

Throughout the world, DORMA has been entrusted to provide safe and accessible entrances to thousands of hospitals, aged care facilities, schools and shopping centres.

As market leaders, we have vast experience in providing practical door solutions for all members of society. In particular, we are dedicated to creating environments that are easy for people with disabilities or the elderly to pass through. Whether it's an automatic door that aids individual room access; an outward opening door with an emergency release; or an electro-mechanical "hold open" device for a fire

door, DORMA products are designed to put people first.

Like many other countries around the world, Australia and New Zealand have increasingly ageing populations. With approximately 20% of citizens having a disability, it is no wonder modern-thinking developers and facility/building managers are placing greater importance on providing barrier-free building accessibility. There are legal obligations as well, with the Disability Discrimination Act and the Building Codes of Australia and New Zealand to comply with.

As such, it is our aim to

help you achieve the best access solutions into and within your building, that not only adhere to these laws, but positively enhance the quality and aesthetics of your building.

Our dedicated team of sales and service professionals located throughout Australasia specialise in the provision of access solutions to meet the needs of the disability and aged care markets. We offer expert advice, whether it's the planning and design of a new building, or renovating an existing area.



## Placing people in the heart of its design process

The Disability Discrimination Act and the Building Codes in both Australia and New Zealand state that all new and refurbished public developments must provide accessible entrances for people with disabilities, and comply with standards in access and mobility.

Regarded as the industry's leading 'access consultants', DORMA can offer expert advice to ensure such standards and guidelines are met.

Automatic opening devices are recommended where the required pressure to open a door is greater than 20N

A hydraulic door closer should be fitted in the absence of an automatic door system

Microwave (or similar) sensors should be beamed to detect wheelchairs, guide dogs etc and should have a five second time delay before the doors start to close.



## Designing for the disability and aged care sector

It is an unfortunate fact that people with disabilities along with the elderly have suffered discrimination due to poorly-designed, inaccessible entrances.

DORMA aims to design outstanding quality, user-focused door control and automatic door solutions that comply with the DDA in providing 'equitable,

functional and dignified access' for people with a disability, the elderly and even those with a temporary injury.

Buildings such as nursing homes, aged care facilities, residential homes, hospitals and surgeries must all conform and embrace every facet of stringent building codes and government

stipulations. Door solutions must meet standards in fire safety, disabled access and security – often all these requirements are met by DORMA in a single application.



Long-term reliability, exceptional quality and innovative design are the hallmarks of every DORMA product.



Removing barriers  
to create an  
independent lifestyle.

## ■ ■ About DORMA

DORMA is a world-leader in door systems technology. We specialise in the design and manufacture of automatic door solutions, door control devices, glass fixtures and fittings and movable walls. In short, our total package offering allows you to control your environment with products designed with ease of use and public safety in mind.

With manufacturing plants in Australia, New Zealand and Germany, we are proud that every DORMA product is engineered to a standard, not a price, and to a simple commitment to superior performance.

## Automatic Doors

### Putting people first

As the largest manufacturer, supplier and service provider of automatic door operators throughout Australia and New Zealand, nobody understands the requirements of internal and external room access better than DORMA.

Our range of automatic door operators provide a perfect access solution as minimal physical effort is required to activate the opening and closing of a door. Available in locking and non locking versions, DORMA's swing, sliding and folding automatic operators are ideal for both internal and external use. Automatic doors remove many of the

accessibility barriers and are ideal for both high-traffic and noise-sensitive areas.

From automatic sliding, swing and folding doors; to single, bi-parting, telescopic and breakout systems, our range of automatic door operators solve mobility issues for every type of environment.

With a vast array of actuation devices, a door can be operated via microwave sensors, compact remotes, security cut key switches, pin coded pads or swipe cards, convenient push buttons or hygienic clean scans.

## Product Profiles

### Automatic sliding doors – Models: AL 401, EL 301

These models are the most commonly used solution for building entrances and heavy traffic areas.

DORMA's range of automatic sliding doors can be installed for internal and external use in residential, commercial and industrial applications.

DORMA's O1 range has the flexibility to control bi-parting or single sliding doors with aluminium framed and glazed, frameless glass and timber or solid core doors. They are also available in Bi-Slide, Low Profile, Breakout or Power Train configurations depending on application.



### Automatic swing doors – Models: CD 80, ED 200

These models are often installed to replace a current manual door. The CD 80 is a lightweight - 70mm x 660mm - sleek, stylish, quiet and compact unit, boasting features such as Push and Go, Power Assist and Extended or Permanent Hold Open. Moving doors up to 150kg, the CD 80

is ideal for most applications e.g. public toilets, offices, home residence, hotel rooms etc. The heavy duty robust ED 200 can automate doors up to 250kg and is crammed with safety, security and interfacing features, making it ideal for high-traffic solutions e.g. hospitals.



### Low energy door operators – Model: ED 800

Specially designed for areas of low traffic e.g. domestic residences; this low energy door operator combines the best of both automated and manual operation. The ED 800 can be used as a

conventional manual swing door and closer, or with the option of 'power assist', can monitor the initial manual opening speed of the door determining if the user requires assistance.



### Automatic folding doors – Model: FFT

A bi-folding door system, whereby the door splits open in the centre as both door leaves fold inward and stack to the side to give a wider clear opening. These systems are ideal for corridors and areas of restricted space or for replacing existing

doorways. The FFT is resilient, quiet and smooth in operation, and is a viable option to sliding doors in defined areas of high traffic and restricted space e.g. airports, transport, hospitals, universities etc.



## DORMA case study: Westfield Shopping Centre, Chermside

Westfield Chermside is one of the larger suburban shopping centres in Queensland, located in Brisbane's inner northern suburbs. A recent \$200 million extension at the busy complex saw over 100 new stores added, and a requirement for disabled toilets and parent room facilities.

DORMA Automatics supplied a number of automatic cavity sliding disabled toilet and parent room doors for the extension as they facilitated the best possible use of limited space and provided full compliance with all codes and standards both now and into the foreseeable future. The doors also provided the centre with a modern, safe and aesthetically pleasing finish.

Westfield Chermside's Centre Manager, Mr Paul Swerdlow states: "In a centre so heavily used by the public, safety, looks and reliability are paramount. The use of DORMA's automatic cavity sliding doors in our amenities areas has allowed us to provide a much cleaner, brighter and safer facility for our valued patrons. We are able to attain full compliance with what is a very difficult standard to meet in regards to disabled access. It gives our staff, tenants and customers peace of mind."

Because the door in these units slides into a cavity in the wall, the risk of jamming or trapping a person is significantly reduced. The compact design of the cavity unit also permits users to freely manoeuvre into and around a small area.

DORMA's Privacy Lock Package, with palm activated rocker buttons and occupied LED light, was incorporated into the Westfield project on all disabled toilet doors. The Privacy Switches (featured left) ensure ease of access into the toilet allowing the patron to lock the door upon entrance. All units are installed with an override switch in case of emergency.



## Product Profiles

### Breakout system – Model: O1 Series

This system operates as an automatic sliding door until a reasonable force is placed on the door leaves causing them to break open in an outward direction. The leaves are manually stacked to the side to allow for unimpeded egress which creates a barrier free exit.

Breakouts are ideal for areas needing to move a large number of people in an emergency situation e.g. stadiums, or where front entrances aim to maximise available space with a large clear opening such as shopping centres and car dealerships.



### Fire doors – Model: ED 200

The ED 200 is fire-rated and is therefore the operator of choice for emergency exits or fire doors. During a fire, these doors must continue to open for people to exit and close shut to prevent the spreading of fire or smoke.

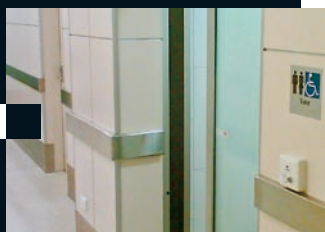
Upon actuation of a fire alarm, or when the power is cut, the ED 200 will revert from an automatic door to manual operation with a hydraulically dampened spring close action.



### Auto cavity sliding door – Models: EL 301, HD

Designed to slide into a cavity within a wall, this space-saving solution offers an increased level of safety and aesthetics as the door cannot jam or snag.

It is ideal for households or commercial areas where limited wall space is available, for example residential installations, hotels, disabled toilets, parent rooms etc.



## DORMA Door Control

### Facilitating a safe and caring environment

Regarded as a world-wide leader in the provision of door closer and door escape hardware manufactured to exceptional standards, DORMA Door Control products make life easier for people every day.

We aim to provide effective door control solutions that allow an independent lifestyle

#### Fire Door Solutions

Implementing a safe fire door solution in an environment that is occupied by people with disabilities and the elderly can pose conflicting ideals. Fire doors need to be closed at the time of a fire, however permanently closed fire doors can present an obstacle.

DORMA has a range of products for fire doors, whether it is an automatic operator that reverts to a hydraulically dampened door closer during a power failure, or a free swinging

and remove some of the barriers inhibiting a person's independence. Truly understanding user needs as well as the environments in which our products are used; DORMA continues to be the supplier of choice for builders and developers of disability and aged care facilities.

manual door that upon fire alarm reverts to a hydraulic closer, both will ensure that in the case of a fire, the door closes shut. These DORMA products are fire tested to prevent smoke or fire from spreading throughout the rest of the building.

DORMA offers a range of surface mounted closers, concealed closers, and floor springs which enable the door to be held open at a desired angle.

## Product Profiles

#### Free swing electro hold open door closers – Models: TS 73EMF, BTS 80-FLB

DORMA's TS 73 EMF free swing door closer offers the best of both worlds: equipped with a free-swing arm assembly, it can be used where doors are required to operate normally i.e. functioning in the same way as a door without a door closer. If the door leaf is opened wide (min. 75°), the closer spindle is held in this position by the electromagnetic hold-open device in the hydraulic closer body.

Then when the alarm sounds, or power fails, the required fire door barrier is kept intact by closing the door. This innovative product is a combination of hydraulic door closer and electromagnetic hold-open unit.

Furthermore if your application is a pivoting door the same function can be achieved using the DORMA BTS 80-FLB free swing electro hydraulic hold-open floor spring.



#### Tubular locksets – Model: CL 600

DORMA's Key n Lever range of tubular locksets provides the many common lock or latch functions ideal for nursing homes, hospitals and medical centres.

The two lever designs both incorporate

a return at the end of the lever, thereby preventing a person's hand from slipping when operating the latch (particularly beneficial for those with a weak grip).



#### Easy open cam action closers – Models: TS 97, TS 93, TS 92, TS 91, TS 90, ITS 96 system

The cam action range of door closers has set new standards in user convenience. The linear actuator and unique heart-shaped cam serve to instantly reduce the resistance encountered when opening the door.

As opening and closing forces are directly proportional, Cam Action closers exert their maximum closing force between 0-15° to ensure the correct latching action thus maintaining the functional integrity of the door.



## DORMA case study: Churches of Christ Living Care, NSW

Creating safe and accessible environments for its senior residents is a priority for Churches of Christ Living Care – a provider of quality retirement villages, nursing homes and hostels for Australia's older generations.

When it was looking to update seven of its hostels around the New South Wales region recently, a fundamental part of the upgrade was to select and install door closers that not only adhered to stringent building codes but also facilitated freedom of movement throughout the premises for all residents.

Ben Gambrill, Building Services Manager of Churches of Christ Living Care, explains: "We were looking for a solution that would enable our frail and elderly residents to be able to easily open a door without force, and yet in the case of a fire, automatically close under mechanical pressure."

Ben and his team explored a number of manufacturers' door closers before choosing DORMA's TS 73 EMF.

"Other products we looked at either didn't meet fire standards or required considerable maintenance time. The TS 73 EMF door closer from DORMA appealed to us as it met our needs from a safety and access perspective; enabled us to adhere to legislation outlined in the Building Codes of Australia; and requires very little ongoing maintenance."

Nearly 300 TS 73 EMF door closers have now been installed throughout Churches of Christ Living Care's hostels and have proved to be exceptionally reliable.

As well as providing a safe environment, DORMA's door closers help with residents' mobility - vital for their independence and self-esteem. "The door closers make life easy for our residents - particularly those who have walking aids." says Ben.



### Product Profiles

#### Panic exit devices for emergency egress – Models: PHA 2000, PHB 3000

Escape strategies for people with disabilities should be determined on the amount of assistance they require in order to leave the building. When ease of operation is a major concern, then panic bars with latches provide an ideal solution.

The DORMA PH Panic Hardware System offers an extensive range of high quality modular panic hardware fittings with horizontal and vertical locking and locking trims to suit. They are available as a push bar type device PHA 2000 or the push pad style PHB 3000.



#### Stainless steel door furniture – Models: 5300, 5400, 6600, 6700

Grade 316 Stainless steel was chosen when designing DORMA's latest range of door furniture. Its natural gleaming finish along with the associated hygienic values of stainless steel is ideal for health planners. The range has an extensive combination of possibilities with co-ordinated roses and backplates.

Of the ten lever designs, three incorporate a return at the end of the lever which can help prevent a hand from slipping. Moreover bolt-through fixing is standard as the lever may have to take extra pressure when someone with a disability leans heavily on the door furniture for support.



#### Mortice locks – Model: ST 9600 Series

The right choice of mortice lock offers numerous advantages when designing premises for people with disabilities. The ST 9600 mortice lock incorporates a radiussed latch bolt for easier latching. This is directly proportionate

to door closers by requiring less strength to close and therefore less resistance to open. Many of the lock functions require less rotation of a key to open or unlock a door due to the unique cams used.





**DORMA Australia  
and New Zealand**

Leading the world  
in door systems technology



**Door Control**



**Automatics**



**Glass Fittings and Accessories**



**Movable Walls**

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