

# record Infloor Automatic Doors

Automatic entrance systems with greater design transparency



PRODUCT PORTFOLIO

## record Infloor Automatic Door Product Range

record Automatic Doors are specialists in working with architects and building owners and managers to create high quality bespoke automatic door entrance systems and this is no better illustrated than through its range of infloor mounted automatic door systems.

Unlike conventional automatic door systems that require a sometimes bulky overhead structure to support the head mounted operator drives, mounting the automatic operator in the floor provides the building designer with much greater flexibility and freedom to design their entrance with slimmer, sleeker and more elegant profiles.

When it comes to specialty infloor automatic doors, record has an excellent range of operators to meet a vast array of functions and applications, with benefits that include:

- Providing greater clear opening heights, particularly useful where space is limited and the mounting of an overhead operator would result in the entrance not meeting minimum clear height requirements.
- Ease of access for servicing requirements. In the case of very tall revolving doors or swing doors, it can be easier to access the drive motor in the floor, rather than use special access equipment to reach it at the head.
- Allowing architects greater flexibility in design and more light penetration to frameless glass lobby facades by not requiring structural beams to support automatic operators.
- Providing striking and unique entrance systems, incorporating glass roofs that would not be possible with a standard automatic operator.

The range of record automatic door products incorporating infloor operators include:

- Revolving Doors, with our Diamond and Crystal Series revolving doors being favoured among leading architects in Australia for over 15 years.
- Sliding Doors, in both linear and curved options, providing both practical and aesthetic advantages to building owners.
- Swing Doors, with infloor operators providing architects with a more aesthetic option for enabling necessary disabled access and emergency egress doors to frameless glass lobbies.

It should be noted that infloor mounted drive units require special consideration in:

- Adequate room for mounting and ongoing maintenance requirements and allowing cabling to activation and safety devices as may be required.
- Optimum drainage provision where there is likely to be impregnation from water.

At record, we will assist you with the necessary advice in planning of such an installation.

### Revolving



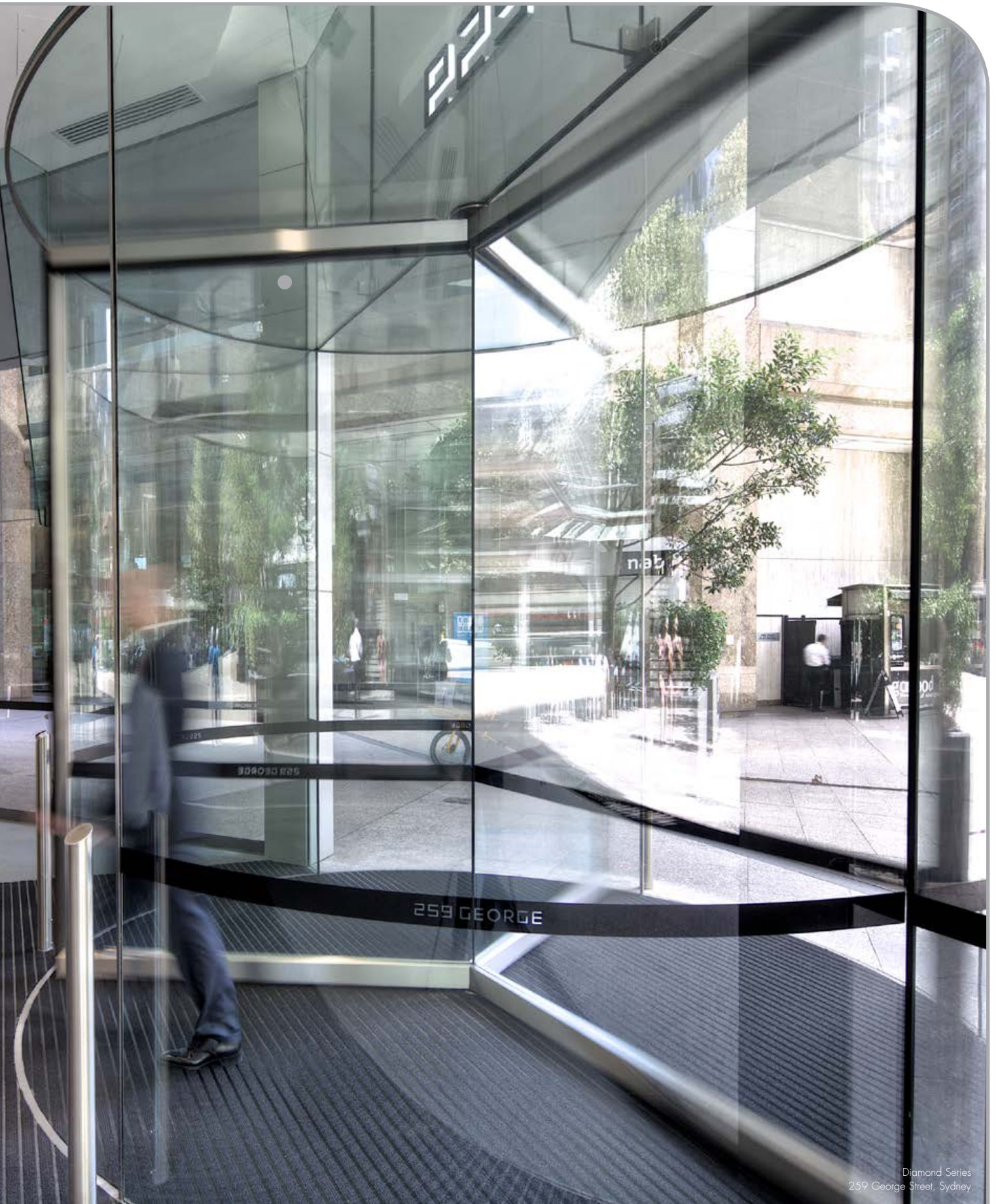
### Sliding



### Swing







Diamond Series  
259 George Street, Sydney





Crystal Series  
737 Collins Street, Docklands



## REVOLVING DOORS

record Automatic Doors, through its former company in Australia, AGP Door Systems, revolutionised the revolving door market in Australia in the late 1990's through its development of a fully automatic glass roof revolving door.

The Crystal Series revolving door was created with a stainless steel portal structure designed to support the glass roof and centre rotating carousel. The drive motor for these first doors were mounted within a pit in the floor, with access via removable floor panels.

record took this design a step further in 2005 with the creation of the Diamond Series, a glass roof revolving door that does not require the portal structure, with the loads from the glass roof wholly supported by the curved glass sidewalls and rotating carousel.

The Diamond Series is now the revolving door of choice for many Grade A commercial office building developments across Australia, with record able to push the boundaries of glass engineering within revolving door design, culminating in 4000mm diameter x 3900mm high revolving doors to the main entrance of International Towers 3 at Barangaroo in Sydney (pictured right).

The mounting of the drive motor has also been enhanced with record able to offer not only floor pit mounting but also under slab mounting, with the drive system bolted to the underside of a suspended concrete slab. This provides many benefits not only during construction but also for ease of servicing throughout the life span of the product.

This design also makes the choice of a Diamond or Crystal Series revolving door, as part of a building upgrade much simpler, with a builder only needing to provide a 100mm diameter core hole at the centre of the door, rather than cutting out and repouring large areas of floor slab to accommodate a floor pit mounting.



Diamond Series  
International Towers 3, Sydney



Crystal Series  
80 Queen Street, Auckland







## LINEAR SLIDING DOORS

The record S 16 infloor mounted automatic sliding door operator is specially developed from record's standard sliding door range to provide the same functionality and benefits of a standard sliding door, but with the greater design flexibility that is afforded by mounting the operator within the floor.

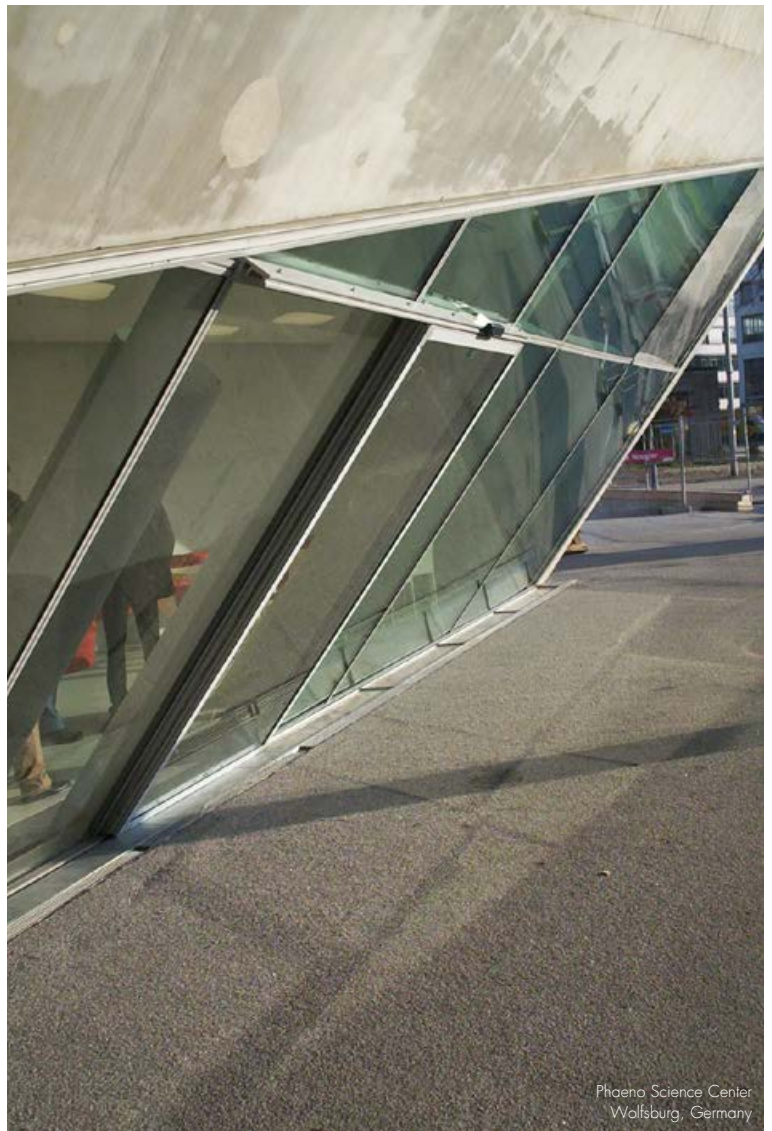
The drive unit is housed within a stainless steel enclosure, providing a sealed separation for the electrical and the motor components, with specially developed gully traps and drainage outlets to protect the unit and ensure safe and proper operation for the same lifetime as a regular overhead sliding door operator.

Available in single slide, bi-parting, angular, inclined and even slanted designs, the record S 16 operator will cover any architectural requirement where increased design transparency is preferred. All with a minimum installation depth for the operator of 200mm and width of 350mm.

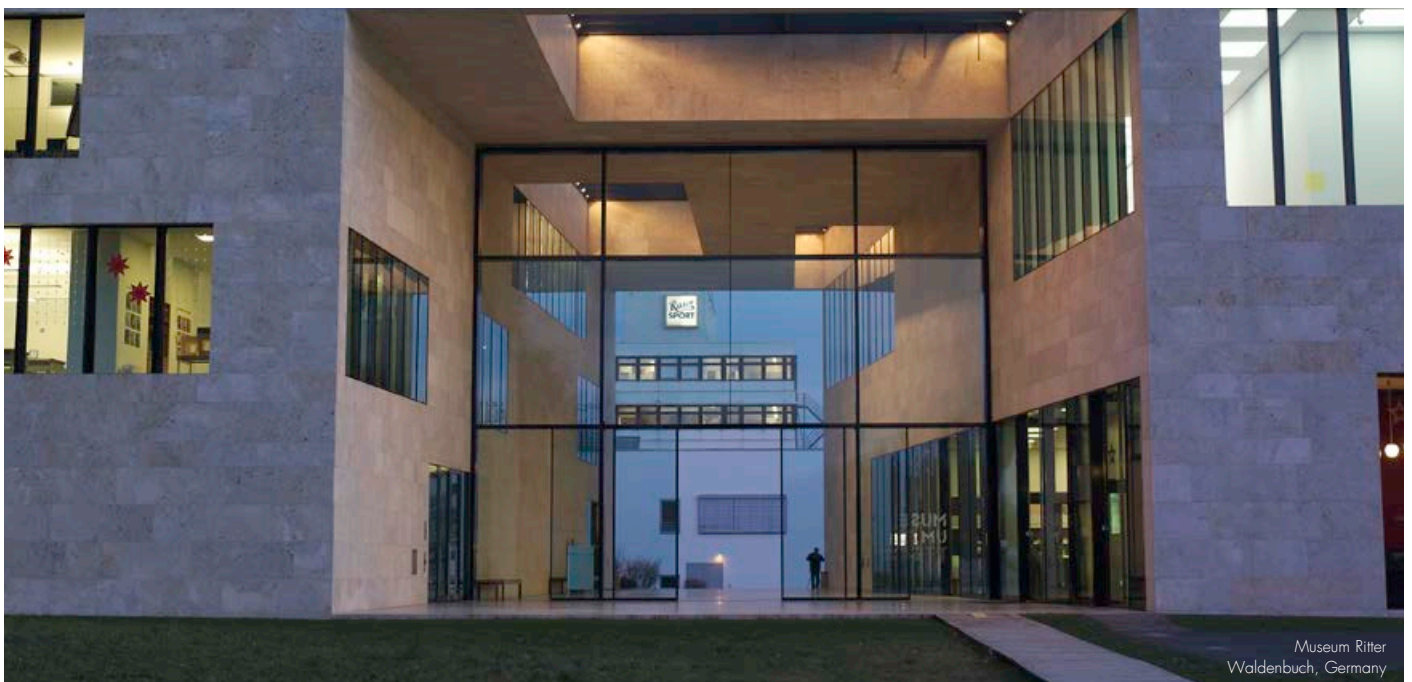
The infloor operator is capable of supporting a total door leaf weight of 400kg for a bi-parting door with passage widths up to 4000mm and heights to 5000mm (on request).



Rote Rathaus (Red City Hall)  
Berlin, Germany



Phaeno Science Center  
Wolfsburg, Germany



Museum Ritter  
Waldenbuch, Germany







## CURVED SLIDING DOORS

Curved sliding doors are ideally suited to lending any façade a real touch of style. They provide the unsurpassed elegance of a revolving door, but are less complex, more flexible and cost effective with regard to looks, as well as providing necessary disabled access and emergency egress requirements.

The record R 61 is an infloor mounted curved automatic sliding door operator that allows building designers to provide attractive and functional sliding door entrances without needing bulky overhead pelmets of conventional automatic doors.

The design options for a curved infloor sliding door operator are extensive, with record able to design freestanding curved glass structures, such as at 9 Castlereagh Street (opposite page), or incorporating the curved sliding door entrance as part of a frameless glass assembly, allowing building designers to provide truly impressive and unique frameless glass entrances.









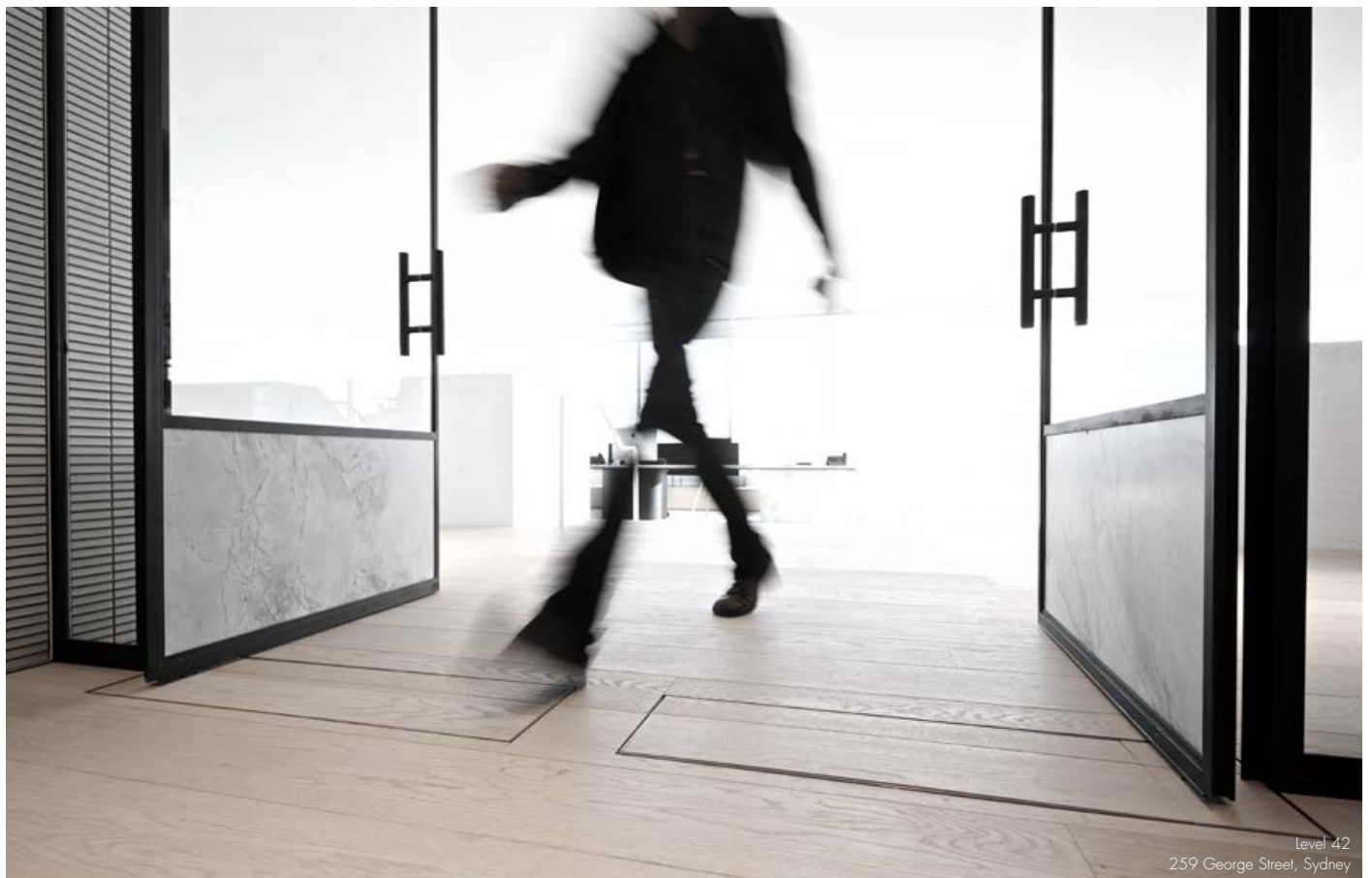
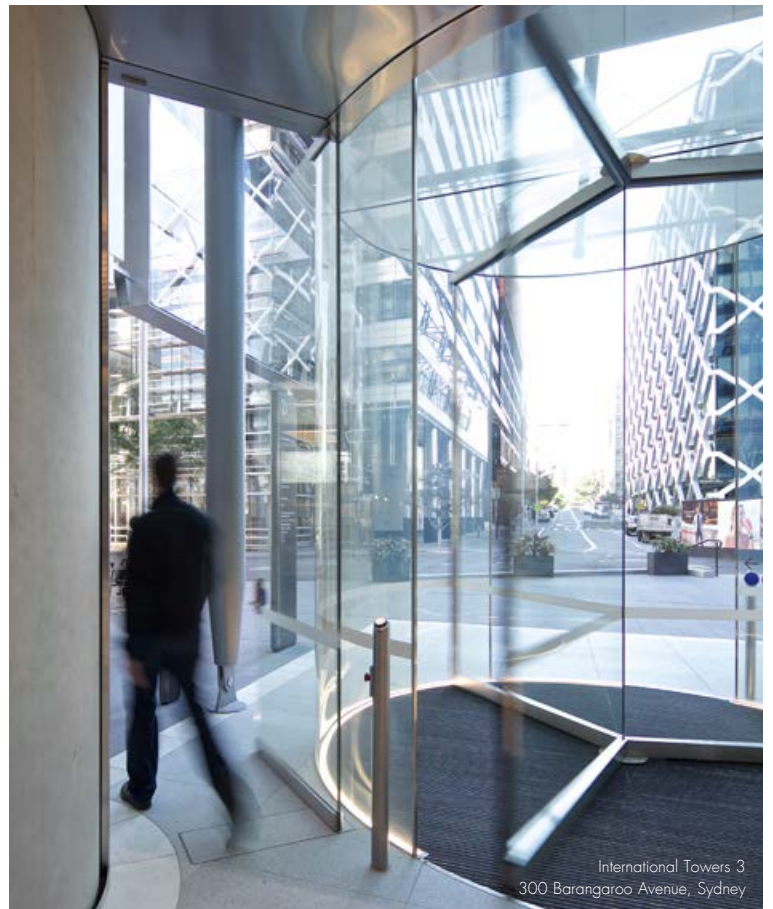
## SWING DOORS

An important consideration in building design is the requirement for disabled access and emergency egress, particularly in commercial office and public buildings where revolving doors are commonly used to provide an air locked main entrance, but do not assist in meeting these requirements

In these applications an automatic swing door entrance is deemed necessary and record's range of options for infloor swing operators provide greater flexibility in entrance system design than alternative transom mounted operators.

An infloor mounted automatic swing door operator is ideal for entrances within frameless glass facades or where overhead space is limited. The range of operators from record include:

- ➔ record C 127, which is mounted within the floor, like a standard manual floor spring, requiring a minimum set down of 143mm from the finish floor level. It is extremely quiet and the design offers a high level of momentum, allowing swing doors weighing up to 400kg to be easily operated.
- ➔ record DFA 127, which is designed to be mounted above a door but can be modified to be positioned under a suspended slab, making it suitable for applications where floor set down is not sufficient for a C 127. An 80mm diameter core hole is required at the door pivot point for an extended pivot spindle to extend below the floor.
- ➔ record C 90, which is an extra heavy duty infloor mounted operator capable of automating swing doors in excess of 600kg. It is a bigger version of the C 127 for extra large and heavy swing doors, requiring the control system to be mounted in a separate cupboard.





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