

# record brochure collection

record – automatic door systems



collection

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**record**

your global partner for entrance solutions

# Welcome to record

record – automatic door systems



## Dear customers

The first chapter of our company began in 1953 selling door drives, which were at that time a brand new product. Today, 60 years later, our automatic door systems are in use worldwide, maintained by hundreds of service teams. Around 75 000 new record drives are sold every year in more than 50 countries.

Over 2 000 employees currently belong to the international record Group of Companies. In 2014, record's 29 subsidiaries generated sales of € 292 million.

Our Group of companies manufactures, sells, installs and maintains not only high-quality products in the field of doors and shutter doors, but also building automation systems (door control and monitoring). The Group develops all the components for drives, controllers and peripherals at their production sites in Switzerland, USA, Germany and France, providing the drive behind the steady growth of the last few decades.

Our subsidiaries in Europe, USA and Asia and our many years of experience in the field of mechanics, sensors, electronics and software for automatic door systems and peripherals make us a highly competent and reliable partner.

The customer is at the centre of both the development of our products and their related services. We are open to new ideas and methods.

The full satisfaction of our customers with the quality of our products and services is our most important goal and crucially important. We implement creative solutions, as only the constant

renewal of the range of products and services can secure the success of the Group in the future.

The issue of maintenance and inspection enjoys a special status at record. Our products are designed for extreme longevity, so with the passing of time they may encounter changes to various statutory



rules and provisions. In order to enhance customer convenience, our maintenance contracts are designed to provide personalized solutions that can be varied to suit the customer and provide the right kind of support to meet legal responsibilities in maintaining and caring for the installation.

Our principles are market-based and profit-oriented. As a listed company, we take into consideration the long-term interests of shareholders and stakeholders\*.

For all our processes and procedures, we are continuing to strive for clear guidelines and good conduct to ensure our full and growing commitment to social issues and environmental responsibility on an on-going basis.

Stefan Riva – Chief Executive Officer



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**record**  
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# record portfolio

automatic door systems



Portfolio



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# Portfolio



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## record – automatic door system

We have been designing, developing, building, selling, installing and maintaining automatic door systems for 60 years. During this length of time, we have accumulated a wealth of knowledge, from which, in turn, a wealth of solutions can be derived.

Our automatic door systems reflect this knowledge in all its facets, and results in a wide range of models capable of fulfilling the requirements of practically any entrance.

### Typical record!

Whether in functional applications such as escape routes, fire containment or separating two climate zones; whether enhancing convenience by providing barrier-free access in nursing homes, or enabling touch-free access to operating theatres, or as a welcoming gesture in department stores; whether functioning as a security interlock in sensitive areas, permitting one-way access only, or functioning as a representative telescopic, revolving or curved sliding door: record makes all these options possible!

### record system 20

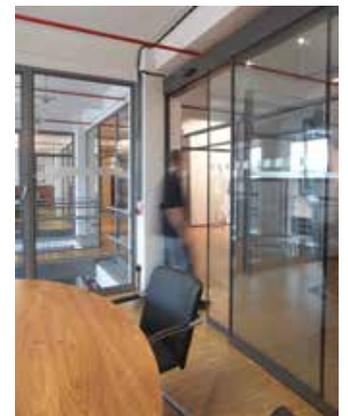
Even our so-called classic "standard" two-leaf sliding doors are sophisticated structures that, together with their complex security systems and refined operational features, are justifiably called "high-tech". They also benefit from the record system 20, a comprehensive control platform, which sets new safety standards, primarily due to the ability of its individual modules to interact, and is also unmatched with regard to user-friendliness!

The record system 20 is used in all our sliding and folding door models, and has also recently been fitted to the record FlipFlow. The integration of other door drives using the record system 20 control platform is a continuous process, and impressively demonstrates the System's enormous diversity.

Automatic door systems that do not use the record system 20 due to their type of construction, such as swing door operators and revolving doors, also benefit from the knowledge derived from the development of system 20.

### Your record partner

The solutions shown in this portfolio only cover a small range of the possibilities they provide, and serve to give you just a first impression of our extensive product range. The record partners in your area are glad to assist you should you have any further questions about the planning or design of your automatic door system.





# Portfolio



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## record – automatic sliding doors

Although our sliding doors can be designed to look very different from one another, they are all characterized by a host of features, which, taken together, we consider «typical record». For you the customer, their most striking feature is their conspicuous smoothness, which is the conscious result of our design and engineering skills. However, the overall impression becomes favourable only when all door movements work harmoniously together. Which is where our experience as developers comes into play, experience that stretches back over 60 years.

Automatic sliding doors are the basis of our success. Sliding doors are not only the type that customers favour, they are also the most versatile. Starting with the different types of glazing available, the variety and type of surface treatments for door and frame profiles, or the option of all-glass construction, the diversity of designs is a challenge to anyone's creativity.

### Linear Sliding Doors

Our classic single or double leaf sliding doors can be found where automatic doors are usually fitted. They have opening widths of 800 to 3000mm, and the most powerful model can accommodate door weights of up to 1 x 250 or 2 x 200 kilos.

Just as inviting and reliable, but more impressive in construction and operation are our two or four leaf telescopic sliding doors. In comparison with the traditional sliding door, they take up about 30% less space thanks to their narrower leaves, and can cover especially large opening widths of up to 4000mm. The maximum door weights range from 2 x 170kg for single, and 4 x 130kg for telescopic sliding doors on both sides.

### Radial Sliding Door

Round and curved sliding doors are ideal as stylistic features of a facade. They offer the unsurpassed elegance of revolving doors, but are in comparison less structurally complex, possessing highly flexible design possibilities. The door can be integrated into almost any radius, and can be curved both outward and inward.

### Angled sliding door

This is an entrance of originality, with extraordinary looks. The angle is freely selectable between 90° and 180° and can be applied inside or outside. With obtuse angles, this type of door is often fitted to operate over a large radius, and is also widely used in place of curved doors.





# Portfolio



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## record – swing door drives

The record DFA 127 is a universal drive system for the automation of swing doors. It features sophisticated technology, compact design and incredible record-typical smoothness of operation. Our constructive approach to a broad range of applications makes it a full door drive suitable for a wide range of different applications.

### Universal applications

These are possible because of its modular construction and electro-mechanical operation. When the door opens or closes using the drive, tension is simultaneously added to the spring integrated in the housing. The counter movement is powered using the energy stored in the spring, which, depending on requirements, can also be motor assisted. Even without motor assistance, ingenious mechanics ensure optimal force is distributed over the entire swing area. This is necessary to ensure the door arrives at its end position in spite of resistance from drafts, for example, and corresponds to the norms and standards of the relevant safety requirements.

The record DFA 127 can be used with door sizes of EN4 to EN6. The different spring forces required can be quickly and accurately adjusted on the spot using a special screw.

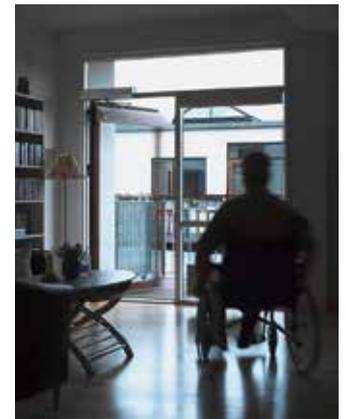
### The right choice every time

The record DFA 127 FULL POWER and LOW ENERGY versions are the correct choice when you need a door capable of meeting conflicting requirements. Extremely strong, the FULL POWER version can move doors of several hundred kilos, whereas the kinetic energy of the LOW ENERGY model is limited to 1.6 joules, enabling it to operate safely without safety sensors.

For escape routes and fire protection applications, we provide the INVERT and FIRE versions. Externally identical to the others, these are basically other variations of the record DFA 127 electro-mechanical swing door drive.

### Possible variations:

- Dual swing door, with or without master / slave operation
- Energy saving mode, adjustable opening of one or both door leaves (sister opening)
- Integrated sequential control for double leaf fire door applications
- Interlock function for two single doors installed consecutively
- Direction-oriented opening for two-way traffic in corridors
- Normal opening or closing





# Portfolio



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## record – automatic revolving doors

Revolving doors are undoubtedly the most prominent part of our portfolio. This is not just because of their sometimes imposing dimensions, but because of the remarkably individual way they allow architects to change and interpret their shape and design, with new and extensive variations.

### Applications

Revolving doors are the first choice when it comes to counteracting drafts, noise, dust, and temperature fluctuations. Revolving doors are particularly effective at preventing drafts, and other door systems, such as two consecutive sliding doors, are unable to equal this. Revolving doors can greatly reduce heat loss, minimising the heating and air conditioning required, in some cases dramatically.

### Versions

Revolving doors are almost always unique. This is shown by the fact that they have to be integrated much earlier into the general architectural design and planning process than is commonly the case with our other automatic door systems. It is also obvious that you have enormous leeway, not only in terms of aesthetics, but also in the selection of materials and surface finishes, all of which enable a wide range of possibilities.

Our revolving doors are available in two, three and four leaf versions, depending on your needs; a variety of options are possible. Features such as built-in showcases, interior or exterior night shutters, or drives located below ground are all part of the design. The well-known BDE-D door control unit, adapted from our other systems, further enhances convenience of operation. Ensuring the highest level of operational safety, a control unit of the latest generation uses several coordinated sensors to reliably detect potentially dangerous situations; if it does, it immediately performs an emergency stop.

### Variations:

- Available with two, three or four leaves
- Diameters from 1 600mm to 7 000mm
- Aluminium, brass, stainless steel or full glass model
- All RAL or anodized colours
- Door drive fitted below ground or conventionally in the ceiling
- Revolving showcases can be located in the leaves or in the middle of the installation
- Night shutters
- Integrated or attached air curtain





Portfolio



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## record – automatic folding doors and entrance systems

Our folding doors and their variants use another design principle of automatic doors.

### record FTA 20

If there is only limited space for door leaves to open in the passage area, which excludes the use of sliding doors, an automatic folding door provides a good solution.

The width of passage can be almost fully retained. Automatic folding doors can be retrofitted relatively easily; they are designed to work particularly well when fitted in corridors. Depending on the total width available, the folding door is built as one- or two-sided. Typical applications for the record FTA 20 can be found in gastronomy, in the passage to the pantry, for example, or from the kitchen to the dining area, but a recent trend is to use the door to implement no smoking laws by separating non smokers from newly set up «smoking lounges».

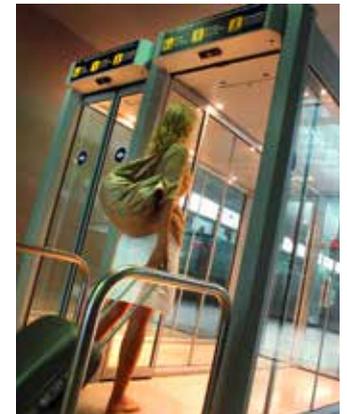
A special feature is the optional «break-out» function (FBO), permitting the record FTA 20 to be used as an escape door in accordance with local conditions and regulations. As with the TOS (Total Opening System) of our automatic sliding doors, the FBO enables swing doors to function as emergency exits by opening in the direction of escape as quickly as possible.

### record FlipFlow

Belonging to record's product family, the FlipFlow is a more advanced folding door. FlipFlow products control pedestrian flow automatically, and are used in security-sensitive areas, like airports, to prevent the uncontrolled entry of persons from public to secure zones.

Pedestrians pass through this one-way access system one at a time, and in one direction only. Attempts to pass through the FlipFlow in the opposite direction are recognized by the intelligent sensor system, which triggers an alarm, automatically closing the doors and blocking the way back with barriers.

Depending on security requirements, FlipFlows come with one or two doors and / or barriers. Several selectable operating modes enable the door to react quickly to changing security situations. Free-flow mode enables fast passenger check-in; the FlipFlow closes and locks only when a person stops, or moves against the scheduled direction. The restrictive interlock mode, by contrast, is designed to allow access one at a time. When a person is present in the interlock, at least one door remains closed, thus effectively preventing objects being thrown or passed through. Automatic switching between these modes is selectable, and is controlled by the volume of passenger traffic.





# Portfolio



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## record – special applications

record also offers solutions for emergency exits and highly specialized designs for special applications.

### Escape door systems

The internationally approved redundant design (RED) for escape doors consists of a double drive unit, two combined but independent controls, and a battery to perform an emergency movement in case of power failure. For admission as an escape door in the UK and Denmark, the drive is fitted with battery monitoring (BAT). Also available is the CO48-opening system, originally provided for the French market, with mechanical energy storage.

Our classic sliding and folding doors can also be ordered as a Total Opening System (TOS). Doors can be swung open in the direction of escape, enabling the widest possible area to be used. Doors with side panels can also be integrated into TOS (standard on the escape door system).

### Special applications

The record CLEAN series of automatic door models are used when there are requirements for hermetic seals with clearly defined properties. It is often the case in the medical field, for instance in operating theatres, that our doors support the maintenance of a sterile environment by their hermetic closing and easy-to-clean qualities. These tightly closing sliding doors are available as single or twin leaf models.

The German Institute IFT Rosenheim has certified the record SAFECORD 20, our burglar resistant sliding door, to resistance class RC 2, i.e. providing effective but unobtrusive protection against intruders. In addition to multi-point locking, reinforced running gear and continuous floor guides, this model also features special laminated safety glass and a framework reinforced with steel plates.

### High speed gates

record SPEEDCORD crash-safe high-speed gates can be found inside distribution centres in the food industry and at logistics companies.

The SPEEDCORD can be used as a connecting element between storage areas with different temperatures, to name just one application. The high opening and closing speeds mean shorter open times, which help to counteract thermal exchange on the one hand, and virtually eliminate waiting in front of the gates, on the other. With a maximum size of 3000 x 3000mm and the low drive cover height of 236mm, this model can be used in an extremely wide range of applications.





# Portfolio



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## record – Inspection and Maintenance Services

We have been manufacturing and marketing automatic door systems since 1953. The very first applications were to operate doors in laundries, but automatic door drives rapidly developed into attractive entrance systems with very different functional principles, initially driven by time-saving needs. Later came the prestige element, and today our door systems enhance the architecture of any building, actively contributing to its security and safety, and saving energy by reducing heating and air conditioning costs.

In the course of these developments, our products have become increasingly more refined, their functionality more comprehensive and their operation more convenient and user-friendly. At the same time, the legal requirements have become more demanding in order to enhance operational safety.

### The right service package for your needs

Today there are over 8 000 record automatic door systems installed all over Switzerland, our home market, still operating smoothly, even after 20 years or more! Our customers use them every day and this enhances their satisfaction. Reliability such as this is only possible with a combination of clear aims and goals, the highest standards of design, construction and installation, and long-term maintenance by record's highly skilled in-house service technicians.

For your automatic door to function smoothly over decades and be able to fulfil the relevant safety and security regulations, periodic servicing and maintenance is unavoidable. Benefit from the flexibility of a record maintenance contract, which will allow you to vastly reduce your operational and maintenance costs.

### Your nearest record partner

Inspection and maintenance have a particularly high priority at record. The fact that record products are designed and built to last a long time also means they face changing legal requirements. To avoid unpleasant situations for our customers, we make it our priority to personalise our service and maintenance packages, enabling you to fully meet your legal requirements of due diligence.

In consultation with you, our advisor will find the ideal maintenance and service package to meet all your needs.

To know more, please get in touch with your record partner!



## Contact

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# record system 20

the trend-setting automatic door system



system 20



# system 20



**record**

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## record system 20 – Features

The record system 20 is the first automatic door system featuring interactive communication, simplified commissioning, intuitive control and greatly enhanced operational safety and reliability.

### Qualities

The record system 20 supplies the basis of our automatic door drives. It enables us to provide a wide range of models for the market, all of which are based on this system and use the same components, modified to suit the needs of the individual customer. The result is quicker assembly and lower service and maintenance costs.

The record system 20 fulfils 2006 / 42 / EG industrial guidelines for machines, DIN 18650 as well as meeting all relevant national and international norms and standards.

### Standard Applications

The record system 20 covers practically the entire range of applications: single and twin leaf standard sliding doors, elegant two and four leaf telescopic sliding doors, even graceful curved and round sliding doors, record's original angled sliding doors, as well as space-saving folding doors: all these are based on the record system 20.

### Special Applications

For special applications there is an abundance of models available. The record system 20 range of products is also available for escape routes or specially equipped for specific applications.

### Your Benefits

The record system 20 is the very latest generation in automatic door systems. In addition to the qualities for which record has become legendary, i.e. exceptionally low-noise operation and typical Swiss quality, the innovative features of the record system 20 make it the market leader from the technological point of view.

### Maintenance and Inspection

We have 29 subsidiaries in more than 50 countries and about 700 skilled service technicians whose training is a permanent part of our program.

Service and maintenance contracts, tailor-made to suit the needs and circumstances of the customer, ensure that your installation functions smoothly and retains its value for many years to come.

Our hotline staff are ready to provide advice and practical support; they can dispatch the nearest record service technician immediately to your location. This guarantees rapid support for you also effectively reduces unnecessary waiting time.





# system 20



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## record system 20 – Qualities

The record system 20 enables the construction of a vast range of door models. Designed using modular construction principles, it can be adapted to suit the widest range of conditions and yet is largely based on the same components. This shortens installation time and reduces service and maintenance costs.

### Mechanics

The absence of noise is the most striking feature of record automatic doors. Our combination of short, low-momentum toothed belts, rollers made from hard-wearing, low-noise plastic, acoustically decoupled running tracks, guide pulley wheels with ball bearings and door leaf guides with specially developed guide profiles all contribute to an exceptionally quiet running door.

### Electronics

The record system 20 components can communicate with one another interactively, which, among other things, enhances safety and security. The ability of drive, sensors and remote to communicate enables continuous monitoring of component status. The operational status of the door system and its individual electronic components also continuously undergo plausibility checks. Thanks to its learning capacity, the potential of the unit to malfunction is reduced to a minimum.

Doors can be operated using a remote control featuring a graphic display with background lighting, and easy-to-use, menu-led navigation with text in the language of your choice; if required, an additional key operated switch is available.

### Design

For the record system 20, there are 20 mm thick aluminium profiles available for 10 mm thick single glazed leaves, or 32 mm thick profiles suitable for 24 mm thick insulating glass to allow the greatest possible transparency. Even profiles of other manufacturers up to 65 mm can be fitted. Both profiles and drive unit cover can be anodized or powder-coated.

Drive unit heights for both the normal, DUO and RED versions are available in either 108 mm or 150 mm; 200 mm for the STA 20-200 and STA 22 reinforced models. The drive unit can be fitted to the lintel, freestanding or integrated in the ceiling.



	Linear standard-sliding door		Linear telescopic sliding door	
Door type	E-STA (one leaf)	D-STA (two leaves)	E-TSA (two leaves)	D-TSA (four leaves)
Opening width	800 – 3000mm	800 – 3000mm	800 – 3000mm	1200 – 4000mm
Clear height of passage	3000mm	3000mm	3000mm	3000mm
Max. door leaf weight	1 x 150kg	2 x 120kg	2 x 90	4 x 80kg
DUO / RED model	1 x 150kg	2 x 150kg	2 x 120kg	4 x 90kg
Reinforced (20-200 / 22)	1 x 200 / 1 x 250kg	2 x 150 / 2 x 200kg	2 x 130 / 2 x 170kg	4 x 90 / 4 x 130kg
Recommended application	single leaf door automation for tight spaces	for most normal applications	for maximum width of passage in tight spaces	for elegant entrances and generous width of passage

\*recommended maximum value





# system 20



**record**

your global partner for entrance solutions

## record system 20 – Standard Applications

The record system 20 provides the right product for every application. Whether you require one of our highly versatile sliding doors, standard or telescopic, curved or angled, or one of our space-saving folding doors that fits into the tightest of spaces, record system 20 can deliver all of this and more.

### Linear Sliding Door

Single or two leaf standard sliding doors can typically be seen wherever automatic sliding doors are required. Standard sliding doors have an opening width of 800 to 3000mm, and the strongest model takes door leaf weights of up to 2 x 200kg. Equally attractive and reliable, but more impressive in construction and range of motion, are our two or four leaf telescopic sliding doors. Thanks to their narrower door leaves, they require about 30% less space compared to standard sliding doors, and can cover particularly large opening widths of up to 4000mm.

### Radial Sliding Door

Round and 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 and far more flexible with regard to looks. This type of door can be integrated into virtually any curved space, and be curved inwards or outwards.

### Angled Sliding Door

This is a highly original design, eye-catching and unusual. Angles are available between  $\geq 90^\circ$  up to  $< 180^\circ$  and can open inwards or outwards.

### Folding Door

Folding doors are necessary when the full width of entrance has, if possible, to be used. They are simple to retrofit, and integrate well into existing entrances. For example, a typical application is in restaurants to provide access to the preparation area, or from the kitchen to dining room.



	Radial sliding door	Angled sliding door	Folding door
Door type	One or two leaves	Two or four leaves	Two or four leaves
Opening width	800 – 3000mm	800 – 3000mm	800 – 2000mm
Clear height of passage*	3000mm	3000mm	2500mm
Door leaf weight max.	1 x 200 or 2 x 100kg	2 x 120 or 4 x 80kg	2 x 40 or 4 x 40kg
as DUO/RED model	1 x 250 or 2 x 200kg	2 x 200 or 4 x 90kg	–
Recommended application	for elegant entrance solutions	for impressive entrances	for tight spaces and simple retro-fitting

\*recommended maximum value





Klinik

# system 20



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## record system 20 – Non-Standard Applications

The record system 20 products are also available for use as escape doors or specially equipped for unusual applications.

### Door systems for Escape Routes

The redundant model (RED) consists of two drive units, two independent controls and a rechargeable battery to ensure emergency operation in power failures. The drive with battery monitoring (BAT) is officially permitted in Britain and Denmark as an escape door system. Also available for the French market is the CO48 opening system with mechanical power storage.

Our standard sliding doors and folding doors can also be ordered equipped with the Total Opening System (TOS). The door leaves can be swung open in the direction of escape, enabling the largest possible width of passage. Doors with swing-out side screens can also be integrated into the TOS system (standard with escape door systems).

### Special Applications

The record CLEAN series of automatic door models are used when there are requirements for hermetic seals with clearly defined properties. It is often the case in the medical field, for instance in operating theatres, that our doors support the maintenance of a sterile environment by their hermetic closing and easy-to-clean qualities. These tightly closing sliding doors are available as single or twin leaf models.

The German Institute IFT Rosenheim has certified the record SAFECORD 20, our burglar resistant sliding door, to resistance class RC 2, i.e. providing effective but unobtrusive protection against intruders. In addition to multi-point locking, reinforced running gear and continuous floor guides, this model also features special laminated safety glass and a framework reinforced with steel plates.

### Other Solutions

We can also provide you with suitable applications in addition to system 20. Whether you require a record drive unit for swing doors, one-way access systems or representative revolving doors, your record partner can provide you with all the necessary information, including competent advice and service. Please ask for our detailed brochure.



	Escape route systems		
			
Door type	RED	BAT (UK, DK)/CO48 (F)	TOS
Standard sliding door	●	●	●
Telescopic sliding door	●	●	
Radial sliding door	●	●	
Angled sliding door	●	●	
record SAFECORD 20	●		
Folding door			●





# system 20



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## record system 20 – your benefits

The record system 20 is the very latest generation of automatic door systems. In addition to making the development of tried and tested designs a permanent feature of their work, our developers have brought to market many innovative ideas which they have integrated into the record system 20.

### In-house Development

The fruits of this innovative thinking are features such as opening widths that adapt to traffic frequency, and the ability of the sensor to suppress the interference of extraneous signals in the door area.

Thanks to the fact that record is one of the few manufacturers of automatic doors that develops and produces both controls and sensors in-house, we are able to optimize the design and functionality of these devices to suit our products right from the design and planning phase. Thus record is optimally positioned to provide 100% compatible control software for its doors and peripherals.

Our sensors, which feature combined radar/infrared, radar only or active-infrared trigger devices are available for assembly on the lintel or flush with it. The unique learning ability of the record system 20 ensures an unusually high level of reliability with regard to functionality. Self-triggering, also called ghosting, caused by the door leaves as they close, has been completely eliminated.

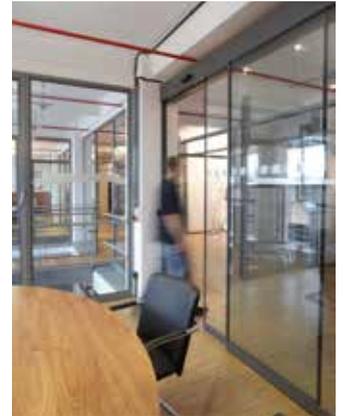
### Faster Assembly

Considerations about reducing the complexity of installations, as well as the possibility of reducing assembly time through more drive pre-assembly, have led to the development of the slide bar. This enables us to manufacture drives of identical widths, independent of the opening width, thus streamlining the manufacture of the drive unit. As a result, our automatic doors are by and large assembled and ready to run in a day.

We have developed the slide bar drive design, and are now in a position to provide it for most linear sliding doors, even those with drive covers of just 108 mm.

### Mechanically the Best

Our efforts to produce the quietest automatic doors possible can also be seen in their operation. They open and close exceptionally quietly, which is indicative of the highest precision and the perfect matching of materials; this precision engineering can also be seen in the harmonious sequence of door leaf movements.



# Options and Equipment



## record system 20

- Standard sliding door, single or twin leaves
- Telescopic sliding door, two or four leaves
- Round or curved sliding door
- Angled sliding door
- Folding door
- Specific sliding door solutions



## Escape door systems



- Redundant (RED)
- Electrical power storage device BAT (UK / DK)
- Mechanical power storage device CO 48 (F)
- Total opening system (TOS)

## Installation Variants

- On lintel, freestanding or recessed in ceiling



## Maximum Door Leaf Weight

- Standard sliding doors [DUO / RED]: E-STA 1 x 150 kg [1 x 150 kg], D-STA 2 x 120 kg [2 x 150 kg]
- Telescopic sliding doors [DUO / RED]: E-TSA 2 x 90 kg [2 x 120 kg], D-TSA 4 x 80 kg [4 x 90 kg]
- Reinforced models STA 20-200 [STA 22]: E-STA 1 x 200 kg [1 x 250 kg], D-STA 2 x 150 kg, [2 x 200 kg], E-TSA 2 x 130 kg [2 x 170 kg], D-TSA 4 x 90 kg [4 x 130 kg]



## Profile Systems for Door Leaves, overhead lights and side panels

- Aluminium 20 mm for 10 mm single glazing
- Aluminium 32 mm for 24 mm insulating glass
- Other brands of profile up to 65 mm



## Surface Finishes and Treatments

- In any RAL finish, powder-coated
- Clear or special anodized finish



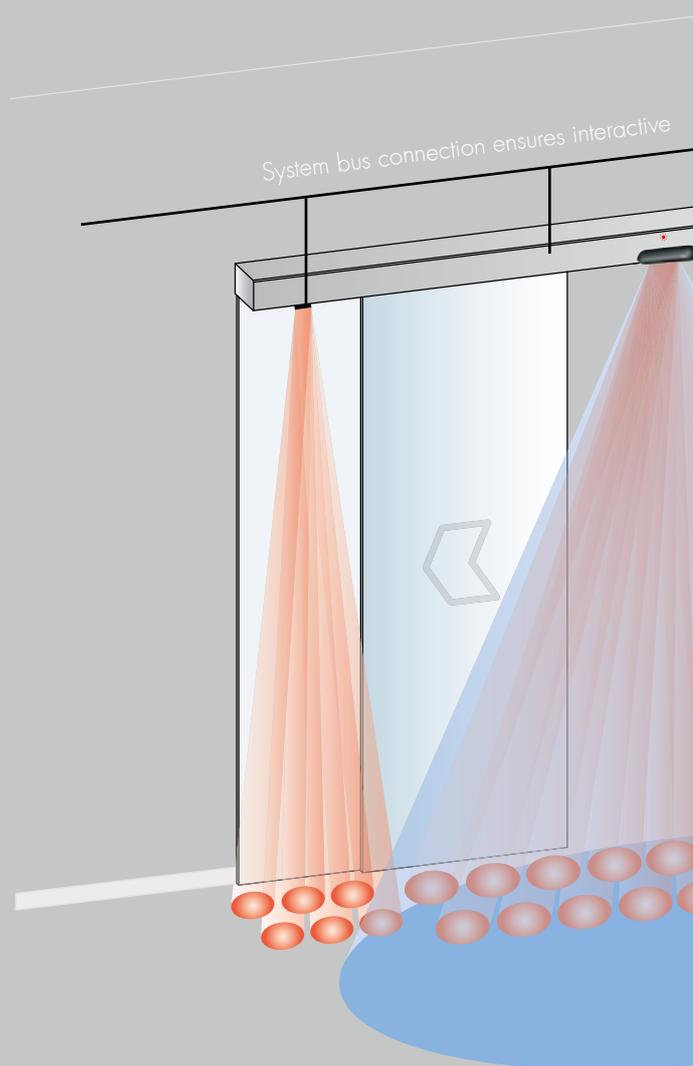
## Control Unit (STM)

- Self-learning, 32-bit microprocessor control
- Controllable, adjustable door leaf motion sequence
- Low power consumption despite very high-performance drive unit



## Drive Covers

- Drive unit height 108 mm and 150 mm
- 200 mm drive unit height for reinforced models STA 20-200 and STA 22
- Hinged, foldable drive unit cover and/or in several parts



## Burglar Protection Options

- SAFECORD burglar-resistant sliding door (tested and approved by RC 2)
- Multipoint locking (MPV)
- Floor rails (stainless)
- Safety rails
- Floor locks (mechanical)

### Special Options

- Optical locking display (OVA)
- Use-dependent opening width (TOWA)
- Bell contact
- Monitoring of locking
- Other options available in line with customer's wishes



### Trigger Devices, Safety and Security Sensors

- RAD 290 (Radar motion sensor)
- AIR 290 (Active infrared motion sensor / monitoring of persons)
- RIC 290 (combined sensor)
- Proximity switch (Infrared)



### Buttons and Switches

- Wireless trigger device EASY open,
- Remote Control Device for RADAR
- Passive infrared sensors (PIR)



### Key-operated contact (SSK)

- Built-in or remote controlled



### Manual Unlocking

- HEI (indoors)
- HEA (outdoors)

### Rechargeable batteries for emergency operation

- Available in a range of capacities



### Locking

- Motorized bolt-operated locking (VRR 20)
- Magnetic locking (VRR 16)
- Multipoint locking (MPV)
- Magnetic catch



### Protective screens

- Elegant protection against trapping



### Fire Protection System

- Several country-specific systems in accordance with E 30, EI 30



### Remote Control Devices

- BDE-D (display with background lighting)
- Available in narrow fitting or square for standard built-in frames
- Equipped with key-operated lock if required



system 20

We reserve the right to make technical modifications at any time

## Specifications

	Standard sliding door		Telescopic sliding door	
	E-STA (single leaf)	D-STA (twin leaves)	E-TSA (twin leaves)	D-TSA (four leaves)
<b>Drive dimensions</b>				
d x h with side screen (mm)	194 x 108 / 150 or 197 x 200		259 x 108 / 150 or 262 x 200	
d x h without side screen (mm)	157 x 108 / 150 or 160 x 200		222 x 108 / 150 or 225 x 200	
<b>Door movement</b>	1.5 s to 0.7 m	1.0 s to 0.7 m	1.5 s to 0.7 m	1.0 s to 0.7 m
<b>Electrical connection data</b>	230V / 50 / 60Hz / 100W			
<b>Ambient temperature</b>	-15°C to +50°C			
<b>Remote control unit</b>	Graphic display with background lighting			
<b>Modes of operation</b>	<ul style="list-style-type: none"> <li>→ Automatic operation</li> <li>→ Continuously open</li> <li>→ Manual operation</li> <li>→ One-way traffic</li> <li>→ Locked</li> </ul>			
<b>Optional functions</b>	<ul style="list-style-type: none"> <li>→ Energy saving functions (automatic opening width TOWA)</li> <li>→ Defining customer-specific door parameters</li> <li>→ Control lock</li> <li>→ Bell contact</li> <li>→ Emergency opening or closing (programmable parameters)</li> </ul>			
<b>Options</b>	<ul style="list-style-type: none"> <li>→ Remote control unit BDE-D, compact model</li> <li>→ Key operated contact (SSK)</li> <li>→ record trigger devices: RAD 290, RIC 290, AIR 290 with record system bus connection</li> <li>→ optical lock indicator (OVA)</li> <li>→ Manual unlocking on outside or inside of door</li> <li>→ Locking device surveillance</li> <li>→ Emergency stop switch</li> <li>→ Rechargeable battery for emergency operation in power failures</li> <li>→ Approved escape door systems</li> <li>→ Hinged, foldable drive unit cover or in several parts</li> <li>→ Module to extend functionality for optional upgrades (FEM)</li> </ul>			
<b>Assembly variants</b>	Lintel installation, free-standing or inside ceiling			

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# record SAFECORD 20

automatic linear sliding door with RC 2 burglar protection



# SAFECORD 20



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# record SAFECORD 20

automatic linear sliding door with RC 2 burglar protection

The record SAFECORD 20 is designed for users who have above-average burglary protection requirements, but appreciate the convenient operation of a standard automatic door.

## record SAFECORD 20

After passing the relevant tests in June 2013, the record SAFECORD 20 was certified RC 2 burglar-resistant, in line with EN 1627:2011 norms and standards. The outstanding feature of this model is the complete integration of all security-enhancing modifications, so that outwardly the door appears unchanged, but remains straightforward and convenient to operate. To fully lock the installation, just press a button on the record BDE-D remote control display, supplied as standard.

The drive and control units are also standard, so the extra cost of the SAFECORD is generated exclusively by the security-enhancing measures.

We at record have provided SAFECORD with a range of features that provide a package of good burglary protection. The RC 2 class ensures the model is fitted with special projectile-resistant glass, in contrast to the weaker RC 2 N requirements. By using standard P5A laminated glass, which corresponds to a higher resistance class, the SAFECORD exceeds the norm's minimum requirements. This has had a positive impact on the overall stability of the door system, achieving a comfortable safety margin.

## Burglary Protection Measures

Measures to strengthen door construction cover all the critical areas:

- P5A laminated safety glass in line with EN 356 norms and standards
- Modified running gear protected against lifting
- Structural reinforcements on side screens, door leaves and closing edges

In addition to specific design changes, the record SAFECORD 20 features some safety equipment you can order in substantially identical form for doors other than the SAFECORD specification. These include:

- MPV multi-point locking
- Floor rails made of stainless steel
- Continuous floor guide

According to the requirements of resistance class RC 2, the sum of these measures provides sufficient resistance to opportunistic burglars to force them to give up their attempt to break in, or stop them long enough to enable security forces to intervene before access is gained.

As vehemently as the SAFECORD denies access to burglars, it opens equally reliably in the opposite direction. The SAFECORD RED redundant version can also be used in escape routes.

## Specifications

### Key data

	D-STA (double sided)	E-STA (single sided)
Opening width A	800 – 3000mm	800 – 3000mm
Clear height of passage G	maximum 3000mm	maximum 3000mm

### Drive dimensions

Without side screens (T x H)	160 x 200mm	160 x 200mm
With side screens (T x H)	197 x 200mm	197 x 200mm

### Maximum door leaf weights

record STA 20-200 [DUO/RED]	2 x 120kg [2 x 150kg]	1 x 150kg [1 x 200kg]
record STA 22 DUO/RED	2 x 200kg	1 x 250kg

### Conforms to norms

Test standards	EN 16005, DIN 18650, EN 1627:2011 bis EN 1630:2011
Resistance class	RC 2, as certified by IFT Rosenheim

## Electrical connection data

### Connection Data STA 20-200

Mains voltage	230VAC, 50/60Hz
Rated power	100W
Consumption in standby mode	25W



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# SAFECORD 20

## Contact

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# record THERMCORD

automatic linear door system with heat insulating properties



THERMCORD



**record**

your global partner for entrance solutions



# THERMCORD



**record**

your global partner for entrance solutions

## record THERMCORD – elegant and thermally insulated

Thermal insulation is a key factor in the construction industry. While roofs, walls and windows have been insulated for decades, automatic sliding doors still exhibit massive and continuous heat exchange. This takes place even when the doors are fitted with insulated glass and are in the closed position.

This is due to the one-piece aluminum profiles used in the construction of the doorframe for reasons of stability. The high thermal conductivity of aluminum means that over the entire surface of the door profiles, heat escapes outwards, or, in an air-conditioned room, ambient heat simply radiates away.

Door leaves are subject to dynamic effects that have special requirements; these practically never allow the dimensions of thermally insulated doorframes to remain compact. This is why the systems currently available on the market are often very big and heavy. Thermally insulated profiles, derived from the design and construction of the façade, are at best a compromise as far as looks are concerned.

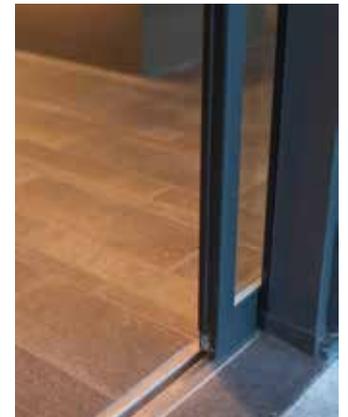
### Developed in-house

The record THERMCORD system has been specially developed for automatic door applications, and for the first time features thermally optimised door profiles with insulating properties. The dimensions, however, are so inconspicuous that they can hardly be distinguished from our conventional doors.

With the record THERMCORD, we have taken the opportunity to consider this technically demanding task strictly from the perspective of the door manufacturer. The result is a stand-alone design that sets new standards in form and function. Thus, a thermal value ( $U_D$ ) of up to  $1.4 \text{ W/m}^2 \text{ K}$  is achieved in conjunction with 30mm double glazing.

### Benefits

- Effective thermal barrier even with narrow door profiles of only 38 mm depth
- All new record design and construction
- Explicit design for use with automatic door systems
- Short payback period
- Unchanged standard drive units
- Digitally networked electronic components





# THERMCORD



**record**

your global partner for entrance solutions

## record THERMCORD – reduces heat gain or loss

New design with familiar looks. The thickness of the THERMCORD has increased by a mere 6mm, and you can hardly tell the difference between the profile widths. The record THERMCORD retains the aesthetics of conventional doors, blending harmoniously into the design of existing models.

### Innovation with series technology

The THERMCORD is powered by standard modules from the record STA 20 series. This door drive has a long and proven track record, and is one of the most advanced systems on the market. Its parameters can be adjusted in numerous ways, enabling it to be optimized for use in virtually any application. The benefits of the THERMCORD become particularly clear when it comes to the individual adjustment of opening and closing speeds, as well as the hold open time, ensuring the lowest possible heat exchange values for the door.

The entire system is digitally networked. This means that the control, drive unit, sensors and remote control device all communicate with one another via the CAN bus protocol. The high data transfer rate enables continuous self-diagnosis, the results can be read from the error memory. For example, interruptions can be recognized, and faulty components or broken cable connections immediately identified.

### Features

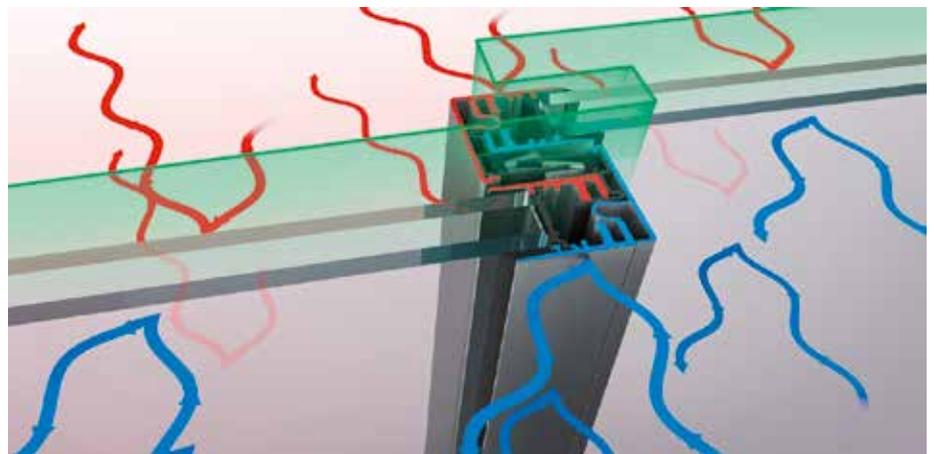
- $U_p$  value of up to  $1.4W/m^2 K$
- Opening widths of 800 – 3000 mm for one-or two-sided linear sliding door systems
- Recommended maximum height of passage 3000 mm
- Maximum weight 1 x 150 or 2 x 150kg with 150mm drive unit height, and 1 x 250 and 2 x 200kg with 200mm drive unit height
- Available for use in escape door systems with redundant equipment

### Options

- Protection screen of toughened glass to safeguard the secondary closing edge
- MPV Multi-point locking to protect against unauthorized intrusion

### Areas of Application

The record THERMCORD is ideal for all construction projects where large temperature fluctuations occur. It can be used as an exterior or interior door, making it suitable for thermally insulating the building from the ambient external temperature, as well as thermally insulating heated interior zones (for example, the spa area) or cooler areas (for example server rooms in data centers).



MIGROS

THERMOCORD+



record

your global partner for entrance solutions

## record THERMCORD<sup>+</sup> – automatic sliding doors with integral thermal insulation

The record THERMCORD profile system, with its striking range of features designed to reduce climate control costs, was introduced for the first time in 2012. The THERMCORD<sup>+</sup> continues to apply this idea by using active seals.

### Operation

Pressure differences between the inside and outside of large buildings are common, and inevitably lead to considerable suction, allowing cold, heat and dust to get in, but also cooled or heated air to escape in an uncontrolled manner.

With the door closed, the active sealing system patented by record stops all suction, and achieves air permeability values which, for sliding doors, are exceeded only by special products for use in operating theaters or clean rooms.

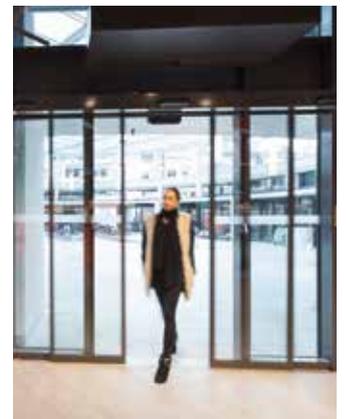
While the main and secondary closing edges are equipped with conventional sealing systems, the sides at the top and bottom feature newly developed so-called active seals. Active seals make it possible for the door to open with no resistance to disturb the smooth running. At the end of the closing process, a carefully designed mechanism presses the sealing profile, which is located in the bottom edge of the door, to the floor. In addition, an integral sealing lip descends at the door upper edge along the full width to close the remaining gap between the door leaf and the drive housing.

### Applications:

- To divide different temperate zones with high temperature gradients
- To prevent suction effects with its innovative, active sealing system
- To significantly reduce energy loss when the door is shut
- Can be used both inside and as outside doors

### Can be retrofitted to THERMCORD systems

Active seals can be retrofitted to all automatic door systems with THERMCORD profiles already installed. With relatively little effort, the result is a fully functional record THERMCORD<sup>+</sup>.



# record THERMCORD

elegant and thermally insulated

## Specifications

Basic data	D-STA (double sided)	E-STA (single sided)
Opening width A	800 – 3000 mm	800 – 3000 mm
Clear height of passage G	maximum 3000 mm	maximum 3000 mm
Total height	G + 150 mm / 200 mm	G + 150 mm / 200 mm
Support length F	minimum 2A + 250 mm	minimum 2A + 125 mm
<b>Drive dimensions</b>		
Without side screens (d x h)	157 x 150 mm / 167 x 200 mm	157 x 150 mm / 167 x 200 mm
With side screen (d x h)	210 x 150 mm / 200 mm	210 x 150 mm / 200 mm
<b>Maximum door leaf weight</b>		
record STA 20 [DUO / RED*]	2 x 120 kg [2 x 150 kg]	1 x 150 kg [1 x 150 kg]
record STA 20-200 [STA 22 DUO / RED*]	2 x 150 kg [2 x 200 kg]	1 x 200 kg [1 x 250 kg]

\* The THERMCORD<sup>+</sup> with active seals and redundant door drive is restricted to door leaf weights of 2 x 170 kg or 1 x 210 kg.

## Thermal value ( $U_p$ ) according to EN 10077

Door dimension	3000 x 3000 mm D-STA	2500 x 3000 mm E-STA
Lintel installation with side screens	1.5 W / m <sup>2</sup> K	1.4 W / m <sup>2</sup> K

## Electrical connection data

### Connection data STA 20

Power supply voltage	100 – 240 VAC, 50 / 60 Hz
Rated power	90 W
Consumption in standby mode	25 W

## Environmental conditions

### Basic data

Ambient temperature	-15° to +50°C
Humidity range	up to 85% rel. humidity, non-condensing

## General technical features

### Motorisation and drive

Motor power	up to 200 W
Gear box	worm gear
Drive	toothed belt

### Functional safety

Maximum opening / closing speed	0.75 m / s
Standard compliance	EN 16005, DIN 18650, EN 16361





# THERMCORD

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# record DFA 127

automatic drive system for swing doors



DFA 127



# DFA 127



**record**

your global partner for entrance solutions

## record DFA 127 – the universal drive system for swing doors

The record DFA 127 is a universal drive system for the automation of swing doors. It is characterized by sophisticated technology, compact design and especially record's legendary smoothness of operation. The focus on a broad range of applications makes it a full-fledged drive, suitable for widely differing requirements.

### Universally applicable

Its universal qualities are mainly due to its electro-mechanical construction, and partly due to its modular design. When the door drive motor operates, it simultaneously tensions a spring integrated in the drive housing. The shutting movement uses energy stored in the spring, which, depending on requirements, is also motor-assisted. Even without motor assistance, thanks to ingenious mechanics, optimum power deployment is achieved in the entire door swing area. This is necessary to move the door reliably to its end position against draft resistance, for example, and also complies with the norms and standards of current safety requirements.

The record DFA 127 is available to operate doors in sizes EN4 to EN6. The different spring forces required can be quickly and precisely adjusted on the spot using the special adjustment screw.

In detail, this model also provides many other sophisticated features, allowing pre-defined door types to be quickly and easily adapted to local and country-specific circumstances.

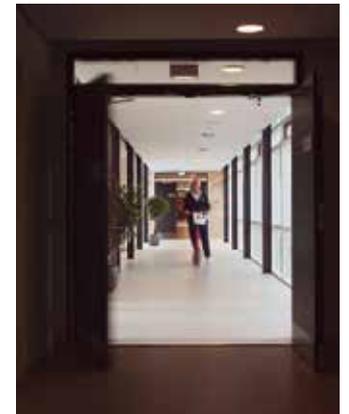


### Features:

- DIN 18 650-compliant technology, approved worldwide
- Approved as a hold-open system for fire protection barriers
- Can be used with various fire-protection profile systems such as Jansen, Forster, Heroal and Schüco
- Features gerontology technology for barrier-free access

### Variations:

- Double swing doors with or without master / slave operation
- Power saving mode: adjustable opening of one or both door panels (stretcher opening)
- Integrated sequential closing control for double-leaf fire door applications
- Interlock function for two single doors installed consecutively
- Direction-oriented opening for oncoming traffic in corridors
- Opening or closing without current





DFA 127



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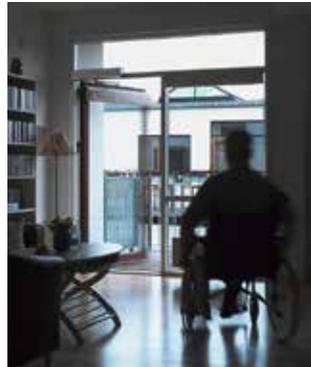
## record DFA 127 – one drive system with four orientations

→ One version → modular construction → all types of installation → well-proven technology

### FULL POWER



### LOW ENERGY



### INVERSE



### FIRE



The **STRONG** one  
very versatile

#### Key benefits:

- Universal, powerful, programmable
- Extensive functionality without additional modules
- Robust, reliable mechanics

#### Recommended use:

- Optimized for the use of large, heavy doors
- Provides a high level of dynamism



Compact and powerful

The **GENTLE** one  
with reduced motion energy

#### Key benefits:

- Depending on location, little or no additional sensors required
- Lowers the inhibition threshold, even in elderly people
- Its gentle operation is convenient and inspires confidence

#### Recommended use:

- Suitable for environments with people of limited or slow reactions



Can be used without security or safety sensors

The **SAFE** one  
opens without mains power

#### Key benefits:

- No emergency power supply required
- Opens by spring force
- Door hinge is integrated into drive (no tripping hazard on the ground)

#### Recommended use:

- Opens to vent smoke from inside buildings in case of fire
- Guides people in power failures



Opens in power failures, enhances safety and guidance in emergencies

The **RELIABLE** one  
closes reliably in case of fire

#### Key benefits:

- Combines comfort with safety
- Can be used with various fire-protection profile systems

#### Recommended use:

- Acts as a fire and smoke barrier



Secure closure in case of fire

### The following is valid for all drive types:

- Identical design of available models
- Technically unified, coherent approach
- Proven peripherals, developed and produced in-house
- Cross-platform operating system
- Remarkably smooth in operation
- Easy to maintain and reliable
- Drive housing available in stainless steel or aluminium
- Surface treatments available in a variety of designs and finishes



**Crew**



**DFA 127**



**record**

your global partner for entrance solutions

## record DFA 127 – the right choice every time

The FULL POWER and LOW ENERGY versions demonstrate that the DFA 127 is the correct choice despite conflicting requirements. The strength of the FULL POWER version can move doors of several hundred kilos in weight, whereas the LOW ENERGY version, however, is limited to 1.6 joules of kinetic energy to enable it to operate safely without special sensors.

### DFA 127 FULL POWER

The DFA 127 FULL POWER is the powerhouse in the family of record swing door operators. Its adjustable spring force gives it great versatility, and can be adjusted on the spot, enabling a range of door sizes from EN4 to EN6 to be used. This enhances its flexibility, enabling it to take additional customer-specific settings. Its sophisticated technology is under the auspices of the record control, enabling complex functions with optimum power deployment in the entire swing area.

#### Especially suitable for use in:

- Retail outlets
- Airports
- Administration and office buildings
- Restaurants and hotels

### DFA 127 LOW ENERGY

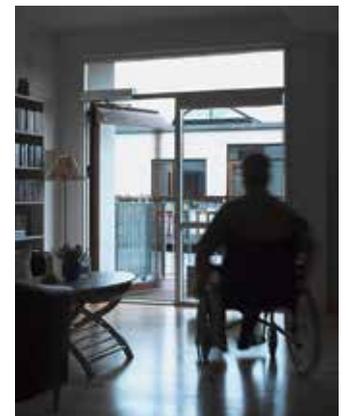
The DFA 127 LOW ENERGY is the ideal drive for environments where people move only slowly and have limited reaction capacity, such as hospitals and nursing homes. Kinetic energy is limited to 1.6 joules, which means the safety of people in the swing area, even in the absence of additional security sensors, is not compromised.

#### Especially suitable for use in:

- Homes for the elderly and disabled
- Hospitals, clinics and retirement homes
- Private homes and apartments

#### Special benefits:

- Thanks to its smooth, even movement, it lowers the inhibition threshold of slow-reacting people
- Additional security sensors can be dispensed with
- Practically silent operation preserves the peace and quiet of living areas





# DFA 127



**record**

your global partner for entrance solutions

## record DFA 127 – escape route and fire protection applications

For escape route and fire protection applications, record has the INVERSE and FIRE versions. These are further variations of the record DFA 127 electro-mechanical swing door operator, although look identical to them.

### DFA 127 INVERSE

The DFA 127 INVERSE enables doors to open securely and reliably, even without a power supply. During the motor-driven closing cycle, the energy required for opening is mechanically stored using a spring. Should smoke start to fill the building, the independent smoke and heat venting system controls the drive, and the INVERSE opens reliably, even during power failures. The door can therefore be used to allow fresh air to circulate inside buildings, or to vent smoke and heat.

#### Especially suitable for use in:

- Escape route openings
- Securing guide routes for persons
- Venting smoke and heat

#### Special benefits:

- The opening stop is integrated into the door drive system (no hazard for pedestrians to stumble over)
- No emergency power supply required to open the door
- The electromagnetic parking brake means additional electrical opening devices on interior doors can be dispensed with.



### DFA 127 FIRE

The DFA 127 FIRE is approved for use as a smoke and fire protection door. In case of fire, a signal from the smoke and heat detector or fire alarm system triggers immediate closing of the passage. Closing takes place by spring force. The SFR 127's mechanical sequential control also enables double leaf fire doors to be used.

#### Especially suitable for use as:

- Fire and smoke protection barriers

#### Special benefits:

- Compact design thanks to built-in fire protection components
- Door system can be connected to on-site fire control
- Own additional control to connect smoke and heat detector ports
- Can be used with various fire protection profile systems



Approvals for specific countries: Germany: DIBt (German Institute for Building Technology), No. Z6.5-1944; France: CNPP (Centre National de Prévention et de Protection); Austria: IBS (Institute for Fire Protection Technology), ÖNORM – B 3850; The use of external components for the door system for example, smoke and heat alarms or electrical door openers, requires evidence of a building inspectorate approval



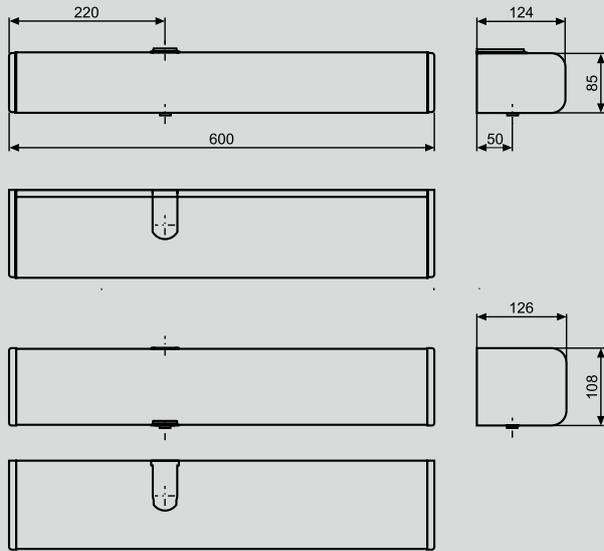
DFA 127



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# record DFA 127 – technical specifications



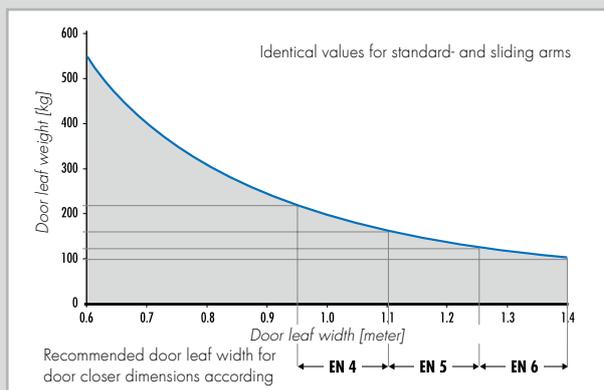
Dimensions of the operator (H x W x L)	85 x 124 x 600 mm or 110 x 126 x 600 mm
Door closer size	EN4 – EN6 for standard arm and slide arm
Opening time / closing time	3 – 20s / 5 – 20s
Opening angle	70 – 115° (INVERSE up to 95°)
Electrical power supply	230VAC, 50 / 60 Hz
Rated power	67W
Consumption in standby mode	13W

<b>Operating modes with internal BDI operating switch</b>	
	Automatic operation
	Continuously open
	Manual operation

<b>Operating modes with BDE-D control panel with display (optional)</b>	
In addition to the standard modes	
	Locked
	One-way traffic
	Operation lock

<b>Functions</b>	
	Automatic reverse
	Touch control (push and go)
	Emergency stop, interlock control or 2-leaf doors
	Customer-specific door parameters

<b>Options</b>	
	Electro-magnetic brake
	Integrated mechanical sequential control SFR 127
	Special control option: «barrier-free WC access»
	Hold-open system for fire and smoke protection doors



## Installation variants



**Lintel installation**  
(1-leaf door)  
Standard bars, DIN left or right, pushing; drive variant for pushing sliding bars available



**Lintel installation**  
(1-leaf door)  
Slide arm DIN left or right pulling



**Lintel installation**  
(2-leaf door, master / slave operation)  
Two electrically coupled drives with standard arm pushing or slide arm pulling



**Lintel installation**  
(2-leaf door with two-way traffic)  
Alternating operation of two drives that are independent of each other



**Door leaf installation**  
(1-leaf door)  
Arm and possible combinations such as lintel installations



**Interlock operation**  
(2 x 1-leaf doors standing one after the other)  
Two electrically interconnected drives in all arm variants



## Accessories and options

### Arm types

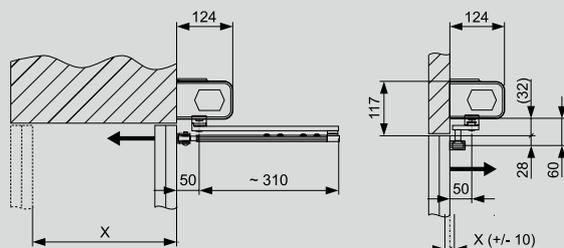
- The power transmission from the drive to the door works by means of a bar, which, depending on the mounting situation is available as a standard or sliding arm. Standard arms are available in different lengths to compensate for a range of lintel sizes.
- Through the use of optional axle extension pieces, so-called spacer bushes, different lintel heights can be compensated for.



Standard arms, pushing

Sliding arms, pulling or pushing

### Lintel depths



Type	Standard arm SG1 – SG3	Slide arm GG
Lintel depths	$X = 0 - 330\text{mm}$	$X = 0 + / - 10\text{mm}$

### Axis extensions

- For standard or slide arm



Type	Standard arm pushing	Slide arm pulling
20 – 80	42.5 – 102.5 mm	32.0 – 92.0 mm

### Sensor systems

- record RAD 290 radar motion detector
- Infrared presence detector
- Security sensors for the monitoring of the door swivel area



### Product range



FULL POWER



LOW ENERGY



INVERSE



FIRE

(conforms to DIN 18650)

### FULL POWER + LOW ENERGY + FIRE

- Currentless drive units function like a mechanical door closer

### INVERSE

- Currentless drive unit opens using spring tension

### Arm systems and accessories

- Standard arm: pushing, different lengths
- Slide arm pulling and pushing with integrated stop
- Axis extensions

### Operator casing

- Standard (stainless steel 85 mm) and in aluminium 85 mm or 108 mm
- Extended as required
- Extended for double swing doors (master / slave operators)

### Treated surfaces

- Satin stainless steel or coloured aluminium or anodised



### Spring tension

- Adjustable spring pretensioning (EN4 – EN6)

### Installation versions

- Lintel installation on hinge side or opposite hinge side
- Door panel assembly
- Hold-open systems for fire protection barriers
- Master / slave operation applied as fire proof doors require also a mechanical sequential control SFR 127



### Trigger devices



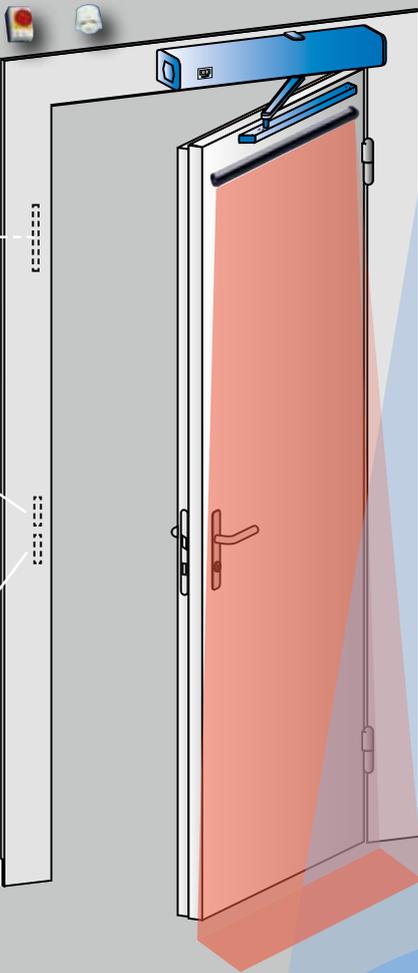
- Radar motion detector RAD 290
- Active and passive infrared sensors
- Hygienic sensor
- Push button

- Presence detector
- Pull switch
- Remote controller
- Key operated contact



### Smoke and fire detector

#### Main switch



### Safety + security sensors (both sides)

- Sensor bar to monitor door swing area: flexible cable routing for existing doors



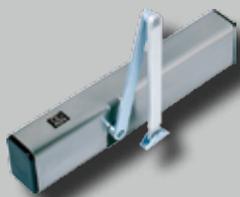
### Additional options

- Interlock control (master / master)
- Mechanical integrated sequential control, for use with fire protection doors (only possible with housings 108 mm high)



### Control panel

- BDI (toggle switch standard)
- Options:
  - BDE-D with display
  - Manual switch
  - BDE-M (mechanical key switch instead of BDI)



# DFA 127

## Contact

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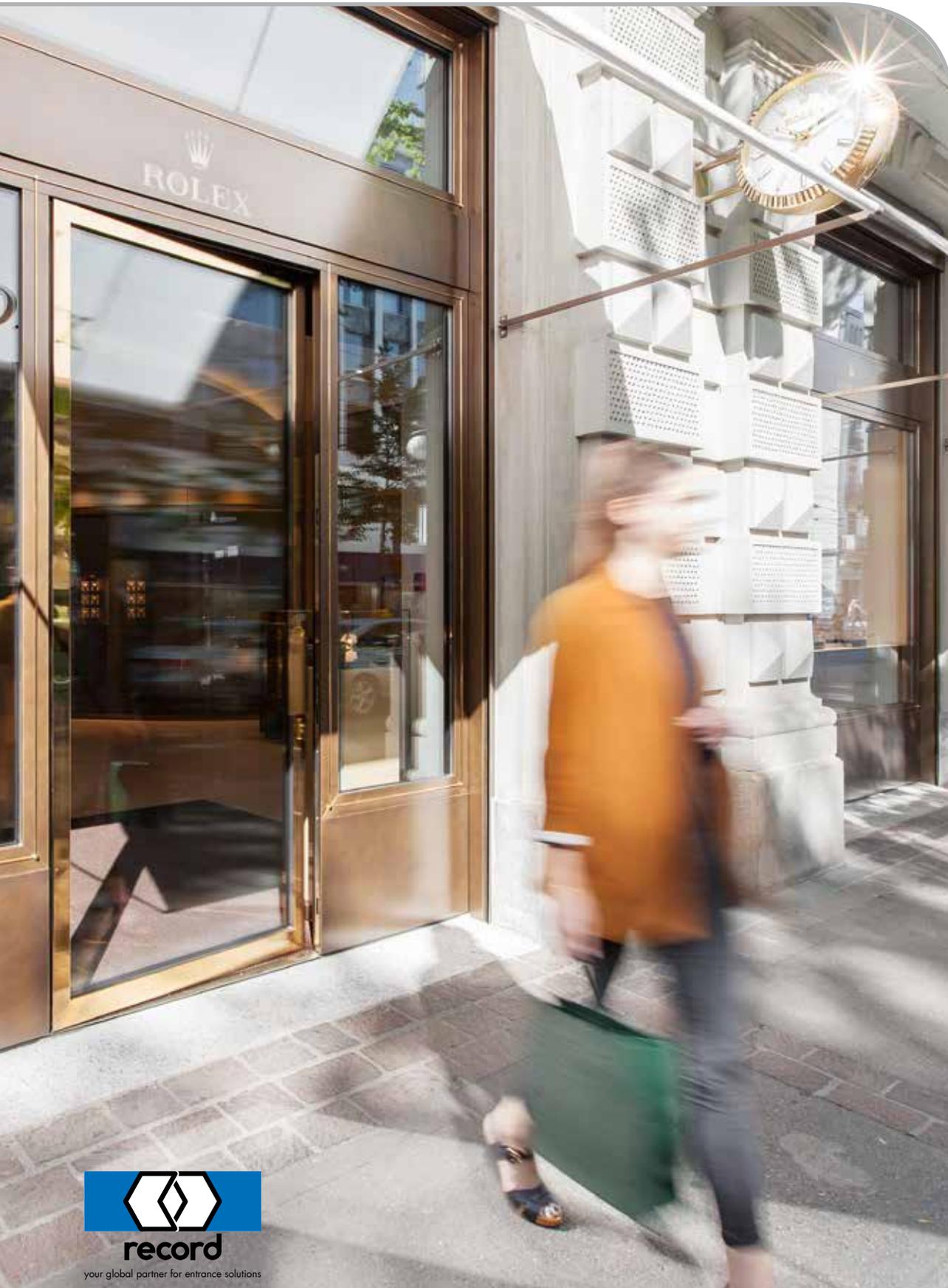
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# record C 127

concealed underfloor drive for doors



record C 127

# record C 127

concealed underfloor drive for swing doors

A well-maintained principle in developing our products is how extremely quiet they are during operation. The prime example of this is the record DFA 127 designed for the automation of swing doors, that is virtually silent even when being utilised fully. With the underfloor installation option now on offer, noise levels are reduced even further whereby the door can no longer be heard moving.

## Invisible record drive – tried and tested, powerful and silent

The record C 127 underfloor drive for swing doors adds another type of application to the range of the DFA 127 product range that has been truly tried and tested for many years. Experience, expertise and reliable technology from record have been combined in the development of this drive. Due to its modular construction and its flexibility in adapting it to the existing door, the record C 127 can be used for the most diverse applications. As it is extremely quiet and has a high level of momentum, even heavy doors weighing up to 400 kg can easily be operated.

The concealed drive supports the design flexibility available to the sophisticated architect. The easy-care system is sunk into the ground – if necessary concealed underneath the floor covering – and thus harmoniously blends in with the entrance area.

The door leaf is driven by means of a lever arm, either directly, in which case the lever arm may simultaneously function as a lower door mounting, or with the aid of a sliding arm, as is required in the case of doors already hinged.

## Technical specifications:

Housing dimensions (LxBxD):	710x200x130 mm, with ground housing 780x270x150 mm
Operating voltage:	230VAC 50/60Hz
Power consumption:	13W in standby mode, 67W rated power
Maximum torque:	50Nm (80Nm in the case of a reinforced "heavy" version)
Maximum moment of inertia of the door leaf:	65 kgm <sup>2</sup> (140 kgm <sup>2</sup> in the case of the reinforced "heavy" version)

## Adjustable parameters:

Angle of aperture:	Can be selected from 70° to 115°
Hold-open time:	Can be selected from 0 to 60 seconds
Opening speed:	Can be selected from 3 to 20 seconds
Closing speed:	Can be selected from 5 to 20 seconds

## Operating conditions:

Ambient temperature	-15 °C to +50 °C
Humidity range:	Up to 85% relative humidity, non-condensing
Wind load:	Designed for wind load zone 2 (25 m/s)
Protection class:	IP67

## Fully integrated; encapsulated to repel dirt and liquids

The drive unit is placed in its own housing, where it is protected from mechanical influences. Cable bushings for connecting actuating elements or optional safety sensors are sealed with watertight sealing glands.

With the end stop integrated in the drive, door stops affixed to the floor can be dispensed with. The strong encapsulation to avert dirt and moisture in accordance with Protection Class IP67 ensures a virtually unlimited suitability for everyday application. Puddles of melted snow and ice or rainwater, as well as washing liquid from floor cleaning machines, do not impair the record C 127 underfloor drive's operation.

The record C 127 underfloor drive is suitable for single or double-leaf framed glass doors or all-glass doors. The operating modes can easily be selected by means of an electronic BDE-D operating unit. The backlit display informs you about the current operating status of the door at any time in the language of the country and in plain text.

We offer a range of sensors and matching accessories, co-ordinated with our products, which excels through outstanding actuating performance, the highest degree of reliability and optimum safety.





# record C 127

## Contact

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your global partner for entrance solutions

# record FTA 20

automatic folding doors



FTA 20



# FTA 20



**record**

your global partner for entrance solutions

## record FTA 20 – automatic folding doors

Our folding doors and their variants use another design principle of automatic doors.

### record FTA 20

If there is only limited space for door leaves to open in the passage area, which excludes the use of sliding doors, an automatic folding door provides a good solution.

The width of passage can be almost fully retained. Automatic folding doors can be retrofitted relatively easily; they are designed to work particularly well when fitted in corridors. Depending on the total width available, the folding door is built as one- or two-sided. Typical applications for the record FTA 20 can be found in gastronomy, in the passage to the pantry, for example, or from the kitchen to the dining area, but a recent trend is to use the door to implement no smoking laws by separating non smokers from newly set up "smoking lounges".

### record FTA 20 FBO

A special feature is the optional «break-out» function (FBO), permitting the record FTA 20 to be used as an escape door in accordance with local conditions and regulations. As with the TOS (Total Opening System) of our automatic sliding doors, the FBO enables swing doors to function as emergency exits by opening in the direction of escape as quickly as possible.

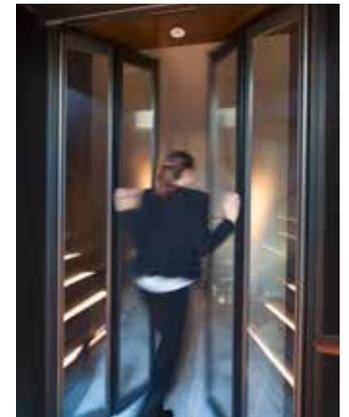
The FBO folding door was specially developed for use in escape and rescue routes. In normal use, the door panels fold inwards. In emergencies, access to escape and rescue routes is provided by light pressure on the door panel. This frees the track from its mountings, allowing the door panel and track to open outwards.

### Applications

The record folding door is ideal for narrow passageways in restaurants, hotels, business headquarters, hospitals and old people's homes.

### Optional details

- Aluminium frame and cover available in all anodised and paint colours
- record BDE-D: the electronic remote control unit with back-lit graphic display enables easy setting of individual parameters (speed, hold open time etc.), and other additional functions.



## Specification

### record FTA 20 – automatic folding door

Opening width (A): 800 – 2000 mm  
 Door leaf weight max.: 4 x 37,5 kg  
 Door operating speed: 0.7 m/s  
 Height of passage (G): up to 2500 mm  
 Operating housing dimension: D x H: 240 x 180 mm  
 Power supply: 230VAC / 50 / 60Hz  
 Ambient temperature: – 15 °C to + 50 °C  
 Trigger devices: radar / infrared detectors, switch etc.

Basic functions:

- automatic operation
- one way traffic
- continuously open
- manual control
- interlock function
- operating lock
- automatic reverse

Options:

- interlock control
- emergency cut-off function
- remote control and surveillance
- night control
- bell option
- door leaf surveillance
- key operated contact (SSK)
- module for extended functionality (FEM)

Assembly variants: → Wall or beam assembly

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# record CLEAN

automatic door systems for environments with special requirements



record CLEAN



# The name for automatic door systems is record!

Welcome to record, your international partner for automatic door systems.

At record, comprehensive knowledge of all aspects of the construction of automatic door systems is combined in one provider, from the development and production of both mechanical and electronic components, to the installation of door systems, to repair and maintenance. We have subsidiaries in 14 countries, and over 200 distributors serve our customers all over the world, installing approximately 60 000 new door systems and a wide range of drives every year.

The record program provides a wide range of automatic doors and peripherals for every conceivable application. Core products are linear and radial automatic sliding doors, swing door drives, folding doors, revolving doors, burglar-resistant doors, security doors for use in escape and rescue routes as well as for fire protection. There are also special products such as doors for hygienically demanding applications, airtight doors, high-speed doors and one-way access systems.



Hermetically airtight automatic door record CLEAN K1-A

Our subsidiary KOS Spezialtüren GmbH (KOS Special Doors Ltd) in Germany has been providing the market with door constructions developed and produced in-house since 2001. The focus of KOS is on sliding doors that close hermetically for use in clean-room environments, as required for operating theaters and some production facilities.



With the incorporation of KOS Spezialtüren GmbH into the record Group, we are now positioned to provide automatic door systems for almost all requirements in hospitals, doctors' practices and other facilities with hygiene-critical requirements, all produced entirely in-house. The benefits to you as the customer are, on the one hand, a new calculation basis, and on the other, that planning, installation and maintenance are always concomitant with the current state of your project, and all sourced from one vendor.

Be inspired! Your record partner is waiting for you!



□ emergency exits version



ACCESS TO PATIENT ZONE  
Linear sliding doors



CONSULTING OFFICE  
Telescopic door  
(2, 4 or 6 leaves)



CORRIDOR BREAK AREA  
robust door  
(1 or 2 leaves)



SECURITY OFFICE  
Swing door record DFA127  
FULL POWER



PHARMACY ENTRANCE  
Burglar-resistant door  
(RC 2)



ACCESS RESTAURANT /  
KITCHEN  
Folding door (2 or 4 leaves)



DELIVERY RAMP  
Rapid high speed gates  
(stacking system)



ENTRANCE RESTAURANT  
Revolving door

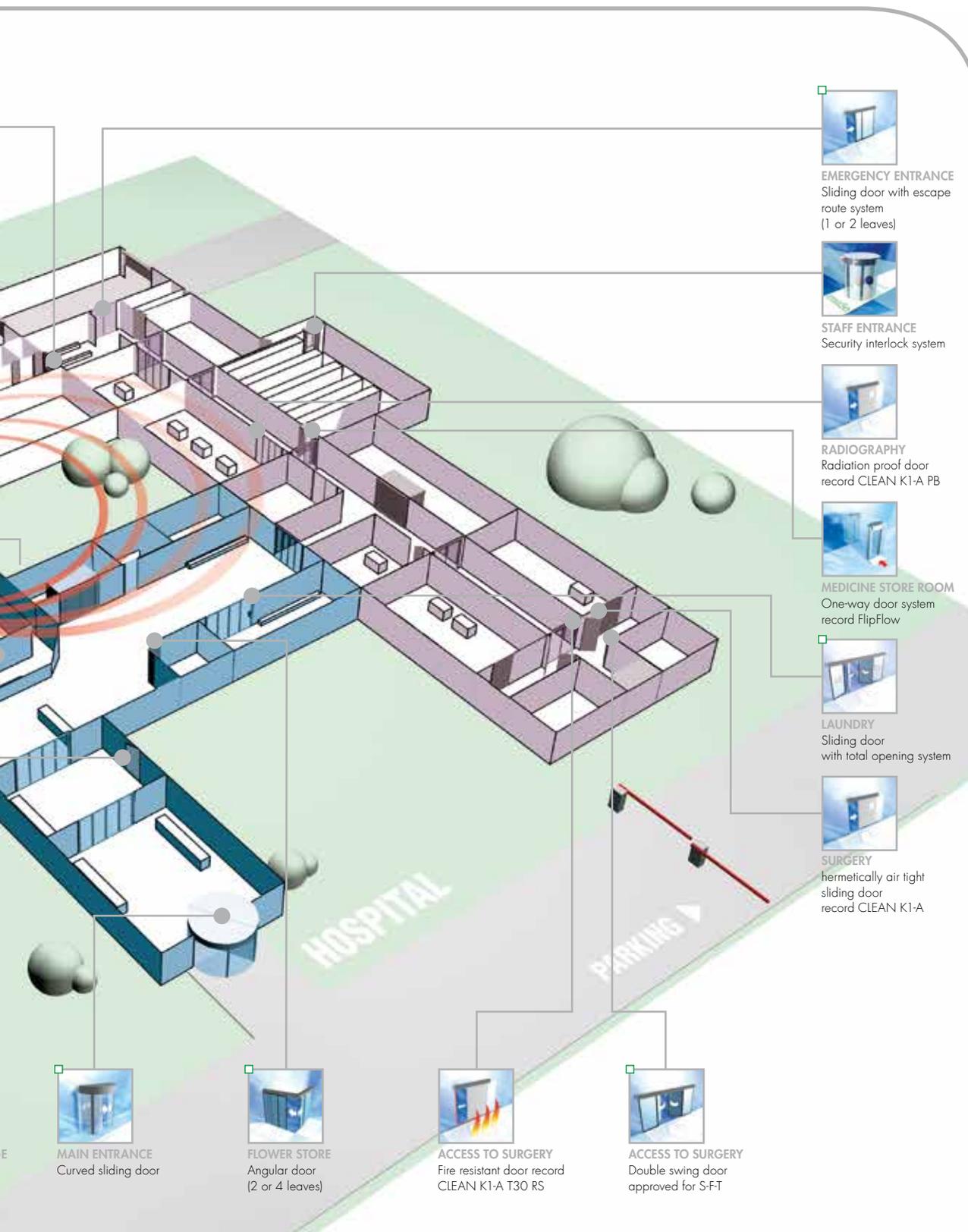


OFFICE ENTRANCE  
Noise-dampening door  
record CLEAN K1-A -dB



ACCESS TO LOUNG  
Swing door INVERS  
smoke evacuation





**MAIN ENTRANCE**  
Curved sliding door



**FLOWER STORE**  
Angular door  
(2 or 4 leaves)



**ACCESS TO SURGERY**  
Fire resistant door record  
CLEAN K1-A T30 RS



**ACCESS TO SURGERY**  
Double swing door  
approved for S-FT



**EMERGENCY ENTRANCE**  
Sliding door with escape  
route system  
(1 or 2 leaves)



**STAFF ENTRANCE**  
Security interlock system



**RADIOGRAPHY**  
Radiation proof door  
record CLEAN K1-A PB



**MEDICINE STORE ROOM**  
One-way door system  
record FlipFlow



**LAUNDRY**  
Sliding door  
with total opening system



**SURGERY**  
hermetically air tight  
sliding door  
record CLEAN K1-A



# record CLEAN



record CLEAN



**record**

your global partner for entrance solutions

## record CLEAN: modular door systems for clean room conditions

The record CLEAN series of automatic door models are used when there are requirements for hermetic seals with clearly defined properties.

### Special doors for use in clean room conditions

It is often the case in the medical field, for instance in operating theatres, that our doors support the maintenance of a sterile environment by their hermetic closing and easy-to-clean qualities. These tightly closing sliding doors are available as single or twin leaf models.

Having now acquired KOS Spezialtüren GmbH in Germany as a record subsidiary, we are now able to provide a wide range of doors with a wide variety of applications, all of which are produced in-house. The basic models in the record CLEAN series are the K1, a single leaf sliding door, and K2, with two leaves. A large range of materials are available for the door leaf core and surface finishes, as well as the design of the door frames and sealing system, enabling a wide field of applications.

### Selectable features

- Hermetically tight closing
- Hygiene-friendly surfaces
- Noise-dampening door leaf core
- Radiation protection insert available in a range of lead equivalent values
- Water resistant materials for use in damp areas
- Smoke and fire protection function

By building on the basic model, many variants for special applications can be created. Protection against electrons, X-rays and gamma rays can be provided with the addition of a full-surface lead insert in the door leaf, in the inside of the frame profiles as well as in the plinth itself. This radiation protection is available in lead equivalents of 0.5 mm increments, and the door is available as a single or double leaf sliding model.

With modified seals and a heat-absorbing core, the basic record CLEAN K1 becomes a certified smoke control door. Add a fire-retardant core and additional intumescent seals, PVC covered to fulfill hygiene requirements, and this model becomes a fire door with combined smoke protection, fully compliant with E130 norms and standards.





record CLEAN



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your global partner for entrance solutions

## record CLEAN: modular door systems for clean room conditions

Our door leaves are finished in high-pressure laminate (HPL) as standard. This durable, easy-care material is available in many colors and patterns, and enables the doors to blend harmoniously into the overall design, or introduce contrasting design touches. Optional are stainless steel, galvanized sheet steel and glass inserts of different dimensions; even all-glass versions are possible.

### Operation

The hermetically tight closing doors roll on a track in the upper area, while the door leaf is guided at the bottom by three flat cams, fastened appropriately. The cams are rotatable both to reduce friction and minimize noise. Shortly before reaching the closed position, the door lowers on the track downward and toward the wall by a few millimeters, thereby exerting pressure on the door seals, which press against the sealing surfaces to produce the hermetic seal. Being flexible, the lower seal can to some extent compensate if the floor surface is not completely level and flat.

### Options

In addition to a variety of surface finishes and customized door leaf cores, the doors can also be fitted with various sizes of windows, integrated blinds and even laser protection according to requirements. Also, mechanical or electrical locks are available, as well as various models of cantilever-type handles.

### Variants

If no hermetic separation required, the doors can also be supplied with a slightly modified door leaf. Due to the elimination of the hermetic closed position, optical changes occur to the lower leaf guides and the path of the door. Otherwise, the visible similarity to the K1 / K2 series remains, enabling homogenous designs to be implemented.

On the basis of the non-hermetic closing K1, we can also integrate a guide frame into the closing system. This model, marketed by us as the K3, is also available with various options and protective features.

The program is rounded out by additional elegant, space-saving telescopic sliding doors, as well as by single- or double-leaf swing doors, in case there is insufficient passage space available to use sliding doors.



# record CLEAN

automatic door systems for environments with special requirements

## Specifications

<b>Basic data</b>	<b>K1-A (one-sided) / K2-A (double sided)</b>
Opening width (A)	up to 3000 mm (wider on request)
Clear height of passage (G)	up to 3000 mm (higher on request)
Total height	G + 305 mm (steel version 330mm)
<b>Housing dimensions automated</b>	
T x H without locking device	120 mm x 252 mm
<b>Maximum door leaf weight</b>	
record	1 x 220 kg / 2 x 110 kg (higher weights available on request)

## Environmental Conditions

### Basic Data

Temperature Range	-15° bis +50° C
Humidity Range	85% rel. humidity, non-wetting

## General Technical Characteristics

### Door Leaf

Strength	40 mm, deviating for special designs
Door Frame Profile	Anodized aluminum profile, reinforced if necessary
Surface	HPL laminate or solid material, stainless steel, powder coated or galvanized sheet steel, lead inserts available in different strengths
Core	Tubular or solid chipboard, polystyrene foam, ESG
Seal	All-round rubber seals recessed into the door leaf

### Frame

Quality of materials	HPL or steel surfaces with aluminum corner protectors for the profiles, stainless steel
----------------------	---

### Motor and Drive

Motor Output	up to 500W
Transmission	Worm gear
Drive	Toothed belt

### Functional Safety

Speed	Selectable from 0.03 – 0.5 m/s
Complies with norms and conditions	EN 16005, EN 18650, EI 30: EN 1363-1, EN 1634-1, EI 30, EI 60





record CLEAN

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# record GATES

Roller shutters, rolling grilles and rapid shutter doors



record GATES

## record GATES – Roller shutters, rolling grilles and rapid shutter doors

Welcome to record, your international partner for automatic door systems.

record delivers full and comprehensive know-how in the construction of automatic door systems and gates, all from the same provider. This ranges from the development and production of various mechanical and electronic components, the installation of entire door systems, to the full range of repair and maintenance services. We have subsidiaries in 17 countries, and more than 200 distributors all over the world to meet our customers' needs, and install around 75,000 new door systems and drives of different types every year.

The record program provides a wide range of automatic doors and peripheral devices for every conceivable application. Core products are linear and radial automatic sliding doors, swing door drives, folding doors, revolving doors, burglar-proof doors, security doors for use in escape and rescue routes, and fire protection barriers. It also includes special products such as doors for hygienically demanding applications, airtight doors and one-way door systems.

record GATES has expanded its product portfolio to include a series of roller shutters, rapid shutter doors and rolling grilles.

ISEA France, our French subsidiary, specializes in doors for trade and industry.

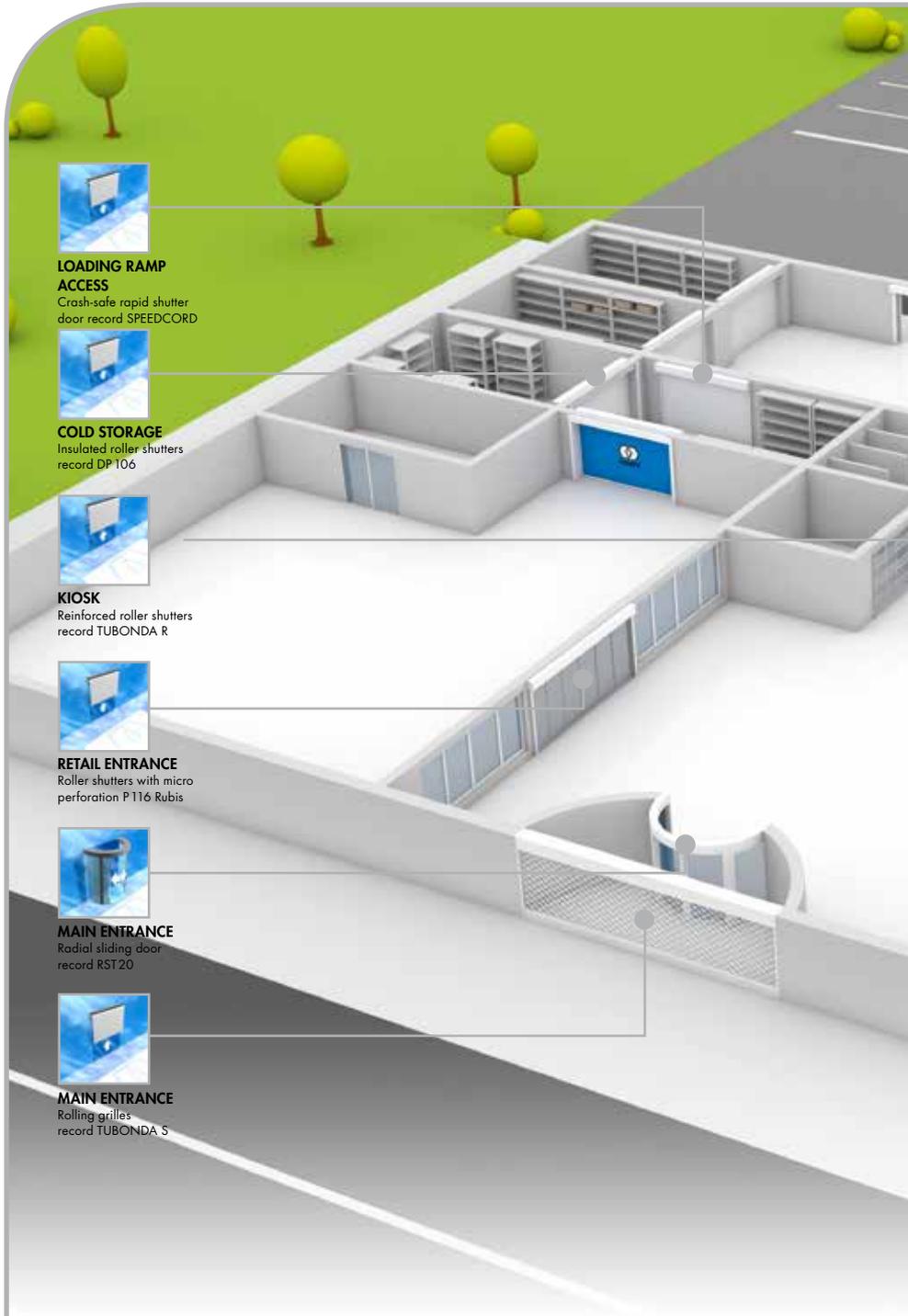


FERMETURES INDUSTRIELLES  
COMMERCIALES & RÉSIDENTIELLES

Since its inception in 1979, it now sells around 15,000 units every year, all developed and produced in-house.

By incorporating ISEA France into the record Group, we are now perfectly positioned to provide entrance solutions for virtually every industrial and retail need, all of which we make and produce ourselves. On the one hand, this enables you the customer to benefit from a new calculation basis, and on the other, you always receive planning, installation and maintenance concomitantly with the current state of your project, all from a single source.

Let us inspire you! Your record partner is expecting your call.



**LOADING RAMP ACCESS**  
Crash-safe rapid shutter door record SPEEDCORD



**COLD STORAGE**  
Insulated roller shutters record DP 106



**KIOSK**  
Reinforced roller shutters record TUBONDA R



**RETAIL ENTRANCE**  
Roller shutters with micro perforation P116 Rubis



**MAIN ENTRANCE**  
Radial sliding door record RST20



**MAIN ENTRANCE**  
Rolling grilles record TUBONDA S



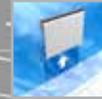
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Rapid shutter doors



Roller shutters



**LOADING RAMP**  
Insulated roller shutters  
record DP 106



**WAREHOUSE**  
Full surface roller shutters  
record P 116



**LOADING RAMP ACCESS**  
Printing option NO LIMIT



**JEWELLERY SHOP**  
Roller shutters with micro perforation P 116 Rubis



**SHOE SHOP**  
Roller shutters  
record EUROLOOK



**BOUTIQUE**  
Total opening system  
record TOS



Roller shutters with partial micro perforation "Tatoo"



Roller shutters EUROLOOK



Insulated roller shutters



Full surface roller shutters

# record GATES



# record GATES



**record**

your global partner for entrance solutions

## Full surface roller shutters

Their simple, robust yet flexible design, combined with their tightly rolled shutter, enables a wide range of applications: whether installed outdoors or in, the roller shutter can be adjusted to suit every situation, and are easy to integrate due to their small space requirements.

Robust steel profiles, insulated aluminum, galvanized or painted: our roller shutters always meet your requirements.

### record P 116: made-to-measure protection

Maximum security at a good price for your shop or industrial location. The P 116 roller shutter is perfect for all kinds of outdoor openings. The P 116 roller shutter profile can also be ordered with perforated finish (the "Rubis" option)

### record P97: Exceptional strength

With larger sizes, the stiffness of the profile could be affected. The curved shape of the P97 roller shutter profiles enhances not only its strength, but also enhances its smooth, quiet operation when rolling, making it perfect for commercial or industrial applications.

### record P 57: Space-saving

Ideal for shops with limited space: the profile height of only 57 mm enables the P 57 roller shutter to have a very small roller diameter. Widths available are 900 – 4700 mm; the maximum overall height is 3 250 mm

### record DP 106: with insulated hinged profiles

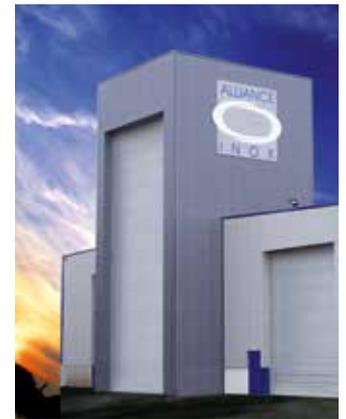
20mm thick profiles ensure good insulation properties, thus reducing heat exchange with the outside.

Particularly suitable for large spaces and busy entrances, or when overhead cranes are in use.

In addition to its economic advantages, the record DP 106 roller shutter is also extremely compact and space-saving. It always delivers the right solution for overcoming cramped or narrow entrances.

Painted in white 9016 or grey 9006 finish, it proudly becomes your new, contemporary business card, at a cost well within your budget.

For information about fitting motor drives please see the section entitled Drives and Options.



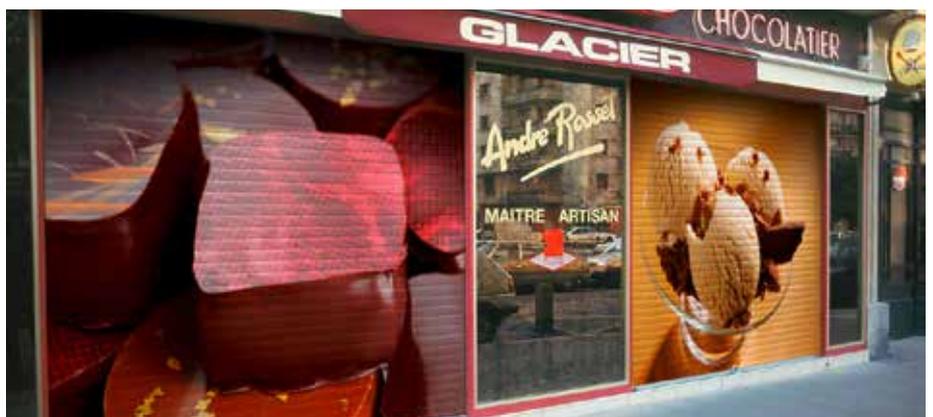
	record P 116	record P97	record P 57	record DP 106
Profile	116 mm steel	97 mm steel	57 mm steel	106 mm aluminium / foam
Insulation	no	no	no	yes
Dimensions max. (W/H)	12 000 and 6 500 mm	13 500 and 12 500 mm	4 700 and 3 250 mm	8 000 and 6 000 mm
Maximum surface	70 m <sup>2</sup>	95 m <sup>2</sup>	12 m <sup>2</sup>	48 m <sup>2</sup>
Automation	yes	yes	yes	yes



SP 130 Finishing profile



Aluminium finishing profile with profile seals





# record GATES



**record**

your global partner for entrance solutions

## Shutter door with micro perforations (Rubis)

This shutter door is particularly suitable for show-rooms, exclusive boutiques, car dealers etc.

- Steel profiles
- Materials and finishes galvanized or painted
- Transparent effect
- Secure values

### A unique roller shutter

In construction, it is simply a roller shutter with hinged profiles, but its materials (with micro perforations) make it almost a shutter door: the space behind is safe and secure, but the products being presented remain clearly visible inside, and are made incomparably more attractive to the eye!



### Unique and fundamental innovation

In the world of building entrances, particularly in the field of metal blinds, we are proud to present another example of our innovative spirit: the new perforations of the P 116 profile, which do not cover its entire surface, thus enhancing its stability and reducing the risk of cracks developing.

### Guaranteed visual enhancement

The TATOO option provides you with the possibility of combining the fully perforated Rubis blinds and the full surface roller shutter, enabling you to have perforations in the shape of your logo, or over just part of the curtain.



### Options

The ANTI GRAFFITI and NO LIMIT options can also be selected for roller shutters with micro perforations. For further information, please see the section entitled Drives and Options.

Nylon stops on the profile ends reduce noise during operation, enabling you to dispense with the need to lubricate the guide rails.



ANTI GRAFFITI and NO LIMIT options are also available.





# record GATES



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## Roller shutter record EUROLOOK®

The Standard record EUROLOOK® transparent protective roller shutter is crystal clear, with 83% transparency, allowing 92% of light to penetrate.

Thanks to its resistance to UV radiation, it does not colour or yellow, and retains its glass-like transparency year after year.

### Security

The EUROLOOK® protective roller shutter consists of polycarbonate plastic links, connected at five points to ensure an optimally robust structure with a maximum of flexibility. This enables a EUROLOOK® roller shutter to yield slightly, but does not permit it to crack. This ensures a highly efficient EUROLOOK® security system.

### Areas of application

For years now, EUROLOOK® protective roller shutters have been used where security and transparency are 100% necessary, i.e. in trades, shops and other businesses, as well as banks and museums.

### Benefits

- Highly aesthetic system
- Ensures transparency and brightness
- Suitable for many applications

### Technical Specifications

- Weight of shutter: 9 kg/m<sup>2</sup>
- Thickness of polycarbonate: 3 mm
- A maximum of 12000mm in width and 6000mm in height

### 3 motor variants:

- Roller motor
- Side-mounted motor
- Mid-mounted motor

For more information on motorization please see the section entitled Motorization.





SONIA  
BY ZOLA STREET

DEE BY CAHILL

XANZESABRUDO

ISABEL MARANT

BBEUN, BAAAH

ANTIK-BATIK

Zepetto

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...

23 rue

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## Rolling grilles

In shopping centers and exhibition halls, this indispensable complement to the windows of your retail outlet covers all your security requirements.

We provide three models of rolling grilles. Whether you opt for the version with bars or the one with profiles, you always benefit from their legendary robust construction as well as our quality guarantee.

### The BITUBO AR: for aesthetics, and smooth, low noise operation

Its construction from 10 x 10 mm galvanized steel profiles with connecting bars make this model ideal for large openings.

Other benefits of the BITUBO AR are its modern aesthetics and especially its smooth-running, quiet operation, thanks to its nylon end caps.

The BITUBO AR is the flagship model of our rolling grille product family; you can order it in any colour you like.

### The TUBONDA S: for good looks and expert protection

The Tubonda S rolling grille consists of corrugated pipes made of galvanized steel with a diameter of 14 mm, making it ideally suited to the needs of your retail outlet. It provides maximum security for your shop window, as well as efficient protection against burglary.

### The TUBONDA R for extra protection

With straight, horizontal tube reinforcements in the sections, the Tubonda R rolling grille (R means reinforced) is a direct evolution of the Tubonda S, and provides an even greater degree of strength, yet retains its elegant appearance.

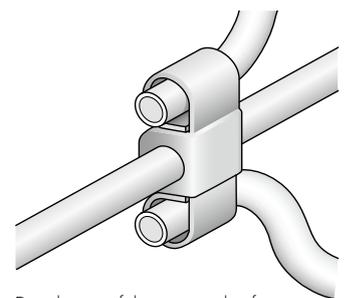
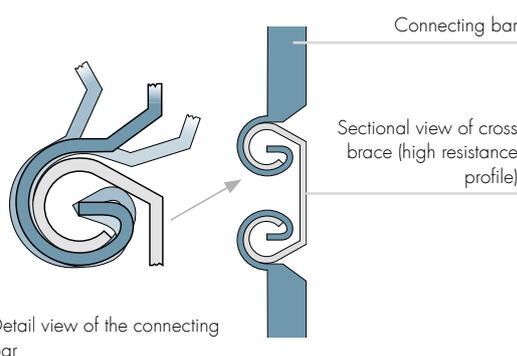
### 3 motor variants:

- Roller motor
- Side-mounted motor
- Mid-mounted motor

For more information on motors, please see the section motorization and options.



	record BITUBO AR	record TUBONDA S	record TUBONDA R
Construction	galvanized or painted steel profiles	galvanized steel bars, corrugated	galvanized steel bars, corrugated
Diameter profile / pipes	10 / 10 mm	14 mm	14 mm
Mesh height	60 mm	110 mm	110 mm (reinforced protection)
Mesh width	243 mm	155 mm	155 mm
Dimensions max. (W/H)	13 700 und 12 500 mm	8 000 und 5 500 mm	8 000 and 5 500 mm
Maximum surface area	80 m <sup>2</sup>	60 m <sup>2</sup>	60 m <sup>2</sup>



Detail view of the patented safety hinge available for TUBONDA R-type blinds





# record GATES



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## record SPEEDCORD benefits: shorter opening intervals reduce heat loss

The record SPEEDCORD can be used as the connecting element between two storage areas with different temperatures. The high opening and closing speeds mean on the one hand short hold-open times, which counteract thermal exchange, and on the other, virtually eliminate possible waiting times in front of the doors. The SPEEDCORD is also very well suited as a noise barrier at the end of assembly line areas.

- Maximum size: 3000 x 3000mm
- Drive: powerful, compact and low-maintenance
- Power supply: 230VAC
- Door materials: 900g/m<sup>2</sup>, choice of several colours available; print or transparent area also possible



### Benefits

- All drive elements integrated into housing; no extraneous components
- User panel integrated into frame; graphic display (BDE-D)
- Power supply 230V: no external switch box required
- Warning light is maintenance-free, LED technology

### Range of applications

- Supermarkets, individual shops, logistics centres, haulage and delivery companies.
- Ends of assembly lines
- Airports



The construction not only takes into consideration the stress produced by the dynamic opening and closing speeds, but also the requirements its unusual size makes on staff safety, and how it reacts to collisions.

### Integrated light curtain

To enhance personal safety, therefore, a light curtain has been developed which is integrated into the sidetracks; it reaches a height of 2500mm and is equipped with additional light beams nearer the ground.



### record anti-crash system (RACS)

The record anti-crash system (RACS) was developed for the SPEEDCORD to protect against damage to the shutter panel to protect against damage to the shutter panel caused by collisions from the improper handling of forklift trucks. The shutter panel is cleverly designed to slide smoothly out of its track whenever a predefined mechanical effect impacts on the SPEEDCORD.

### Maintenance

The record SPEEDCORD is designed to be extremely maintenance-friendly. The brushless motor, chain drive and LED technology all contribute benefits.





# record GATES



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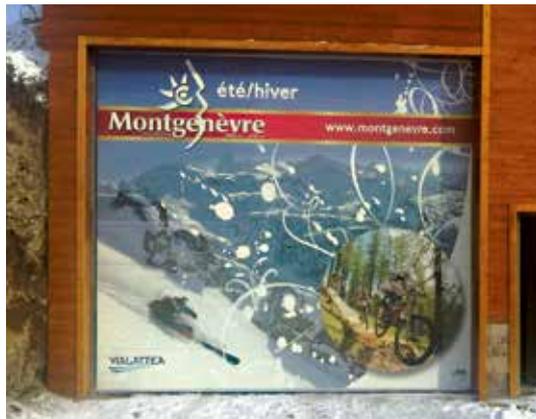
## Innovation

We give you the option of customizing your doors and shutters with your own designs.

### NO LIMIT uses Numéricoat TNM® technology for photographic quality

This is far more than just paint. By using a file of your choice, your desired enhancement data is transmitted digitally onto the surface. Full graphic freedom of expression ensures you can show off your unique selling proposition, and clearly define your commercial identity.

- Excellent resolution of photos and best print quality (600 dpi)
- Available in glossy, satin or matt finishes.
- Anti-UV treatment with a 10-year warranty; special anti-graffiti finish
- Resistant to impacts, drilling, cutting, surface treatments, detergents and bactericides
- Environmentally friendly: colour paints contain no heavy metals; polymer primer contains no solvents
- The Numéricoat TNM® process was awarded the Qualicoat® standard of quality as it complies with the most demanding standards



### ANTIGRAFFITI Technology

ANTI GRAFFITI puts an end to graffiti for ever! From now on, this solution allows you to relax, secure in the knowledge that your metal blinds will not suddenly become defaced by graffiti from one day to the next.

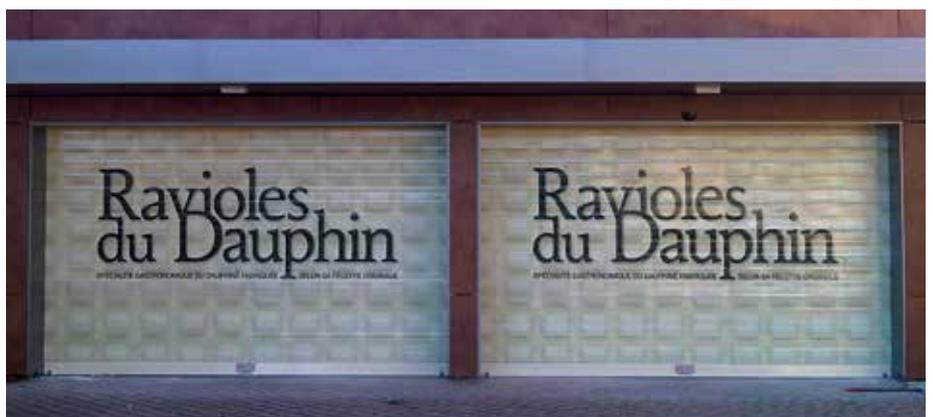
#### This investment really pays off!

- The anti-defacement solution is available at a very reasonable price
- You can easily remove the traces of marker pens, permanent markers, paints and other aggressive dyes and solvents
- The protective lacquer is not adversely affected by cleaning materials of any kind

#### An efficient solution

The powerful anti-defacement technology has also been recognized by RATP, the Paris transport company. It is guaranteed to withstand 50 successive cleanings of all-metal blinds, sectional doors and entrance doors to residential buildings.

The anti-defacement treatment may be applied to both new and older metal blinds.



# Drives and options

## Drives

Four built-in solutions are available: mid-mounted motor, a roller motor, a motor with direct drive and a side-mounted motor with chain drive

### Selection Criteria

- Number of cycles per day
- Frequency of use
- Area extent

Use	Mid-mounted	Roller Motor	Direct Drive	Chain
Width over 5000mm	–	•	•	•
Area over 21 m <sup>2</sup>	–	•	•	•
over 15 cycles per day	–	–	•	•
Industrial use	–	–	•	•
Retail outlet	•	•	•	•
Voltage 380 three phase	–	–	•	•
Voltage 220 single phase	•	•	•	–
Available outside France	–	•	•	–

• available, – not available

## Options

The many options we have available enable you to customize our products to your individual needs.

### Storm anchors

Special guide rails and storm anchors are available for metal gates exposed to high wind.

### Nylon end caps

Nylon end caps not only save the labour of lubricating the guide rails, they also significantly reduce operating noise.

### Advantages of nylon cap

- Smooth, quiet operation
- Profiles are laterally rigid
- Prevents steel-steel contact

By choosing a shutter or gate from the record GATES series, you have selected the best!

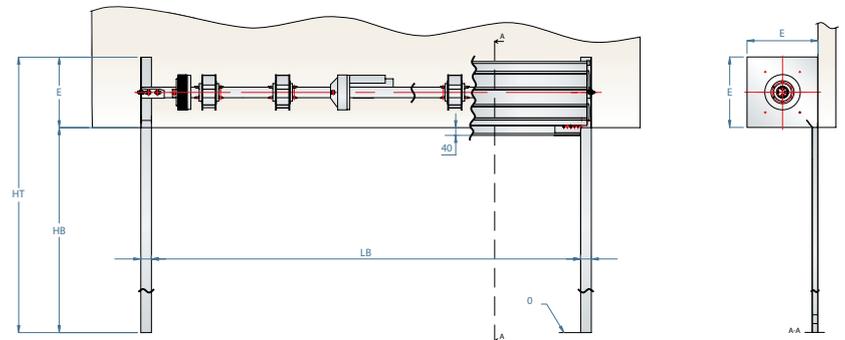
### Guide rails with seals

This exclusive option dampens the noise of the door during operation.

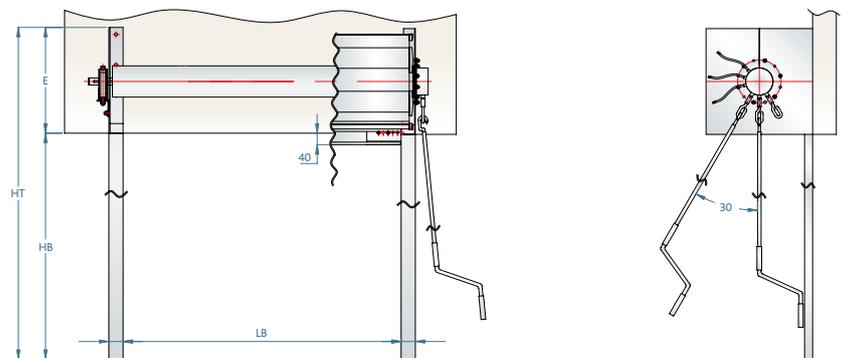
### Finishing profile with seal

This innovative seal reduces the ingress of air and moisture.

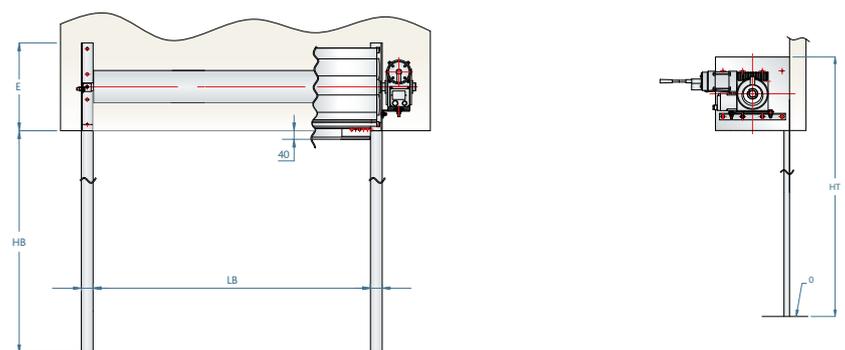
## Mid-mounted motor



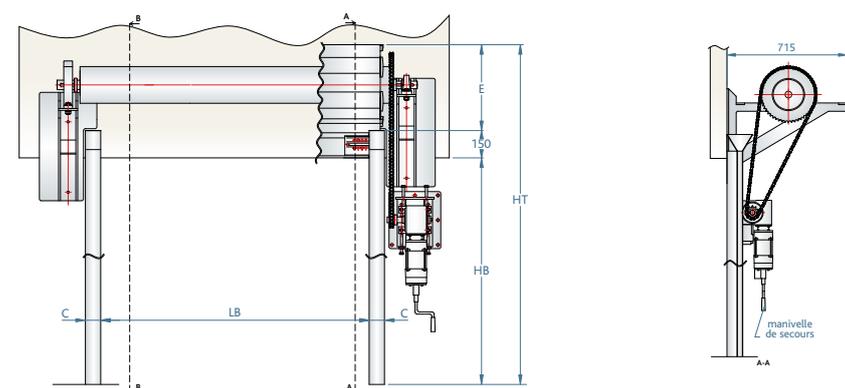
## Roller motor



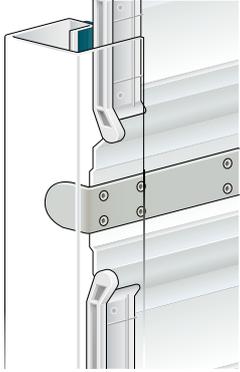
## Sideways flanged motor with direct drive



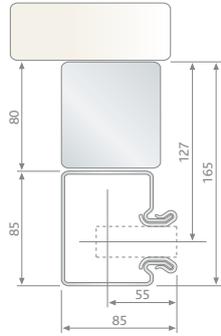
## Side-mounted motor with chain drive



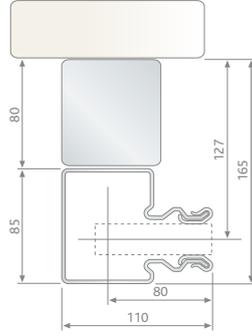
### Options



Storm anchor option



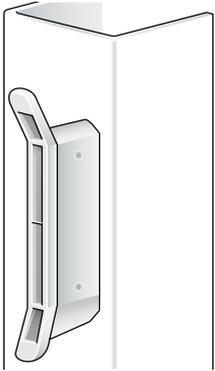
DP 106 guide rails



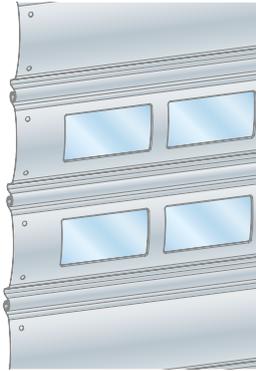
DP 106 guide rails for enhanced wind resistance



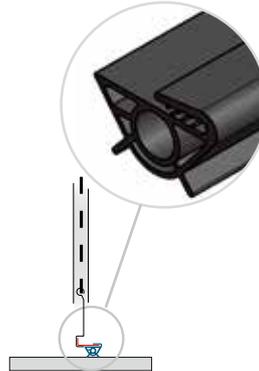
Guide rails with seal



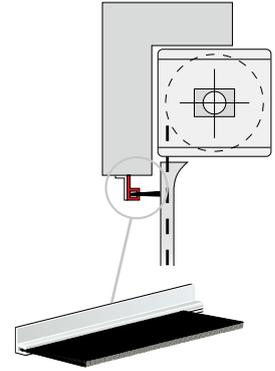
Nylon end caps option



5 Inspection windows / lfm – 100x50mm



Finishing profile with seal



Brush seal at lintel

Options	P 97	P 116	P 57	DP 106	Rubis	TUBONDA S	TUBONDA R	BITUBO AR	SPEEDCORD
Lock with round cylinder	○	○	○	—	○	○	○	○	—
Lock with Euro-profile cylinder	○	○	○	—	○	○	○	○	—
Side locking	○	○	○	—	○	○	○	○	—
Switch type Retail outlet	○	○	○	○	○	○	○	○	—
Industry switch type 2P	○	○	○	○	○	○	○	○	—
Industry switch type 3P	○	○	○	○	○	○	○	○	—
Key-operated switch	○	○	○	○	○	○	○	○	○
Contactors Guide rails Box	○	○	○	○	○	○	○	○	—
Impact protection outside	○	○	○	○	○	○	○	○	—
Switch with impact protection outside	○	○	○	○	○	○	○	○	—
Guide rails for high winds	○	○	○	○	○	○	—	—	—
Guide rails in RAL-colours of choice	○	○	○	—	○	○	○	○	●
Blinds in RAL 9010 (pure white) oder 7021 (Black-grey)	○	○	—	—	—	—	—	—	—
Blinds in RAL 9006 (aluminium white) or 9016 (signal white)	—	—	—	○	—	—	—	—	—
Blinds in RAL of choice	○	○	○	○	○	—	—	○	●*
Surface treatment NO LIMIT	—	—	—	○	○	—	—	—	○**
Surface treatment ANTI GRAFFITI	○	○	○	○	○	—	—	—	—
option Rubis / TATOO	—	○	—	—	—	—	—	—	—
Nylon end caps	○	○	○	○	○	—	—	●	—
Inspection window	—	○	—	—	—	—	—	—	○
Finishing profile with seal	○	○	○	●	○	○	○	○	●
Guide rails with seals	○	○	○	●	○	○	○	○	●

Key: ● Standard; ○ Option; — not available; \* record SPEEDCORD blind only available in RAL 1003, 1015, 1018, 2004, 3002, 5002, 5010, 6018, 6026, 7016, 7037, 7038, 8017 and 9016; \*\* without surface treatment ANTI GRAFFITI

# record GATES

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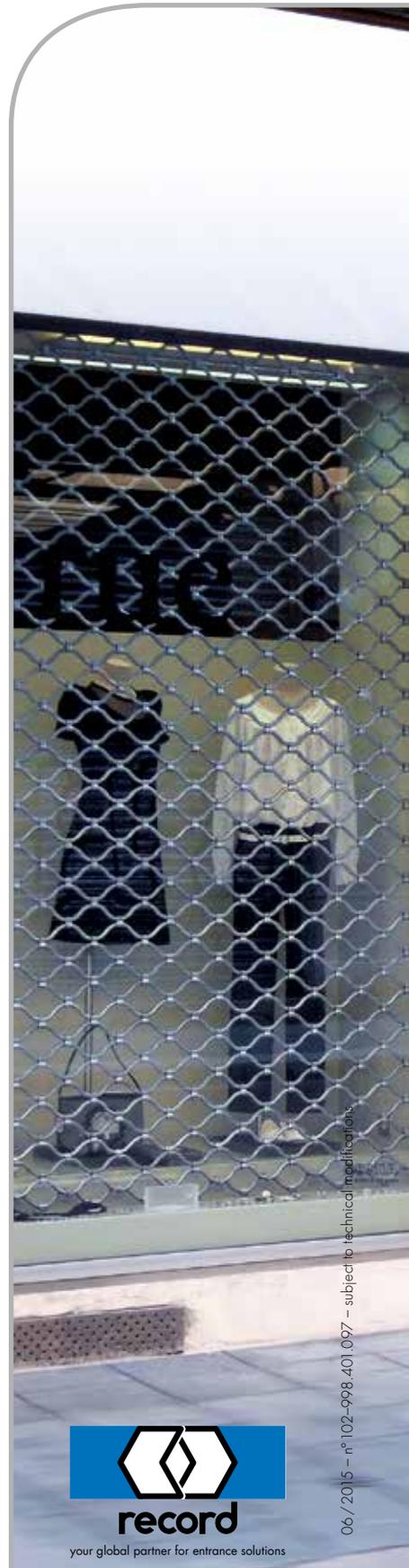
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