

# record CLEAN

automatic door systems for environments with special requirements



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# 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 75 000 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

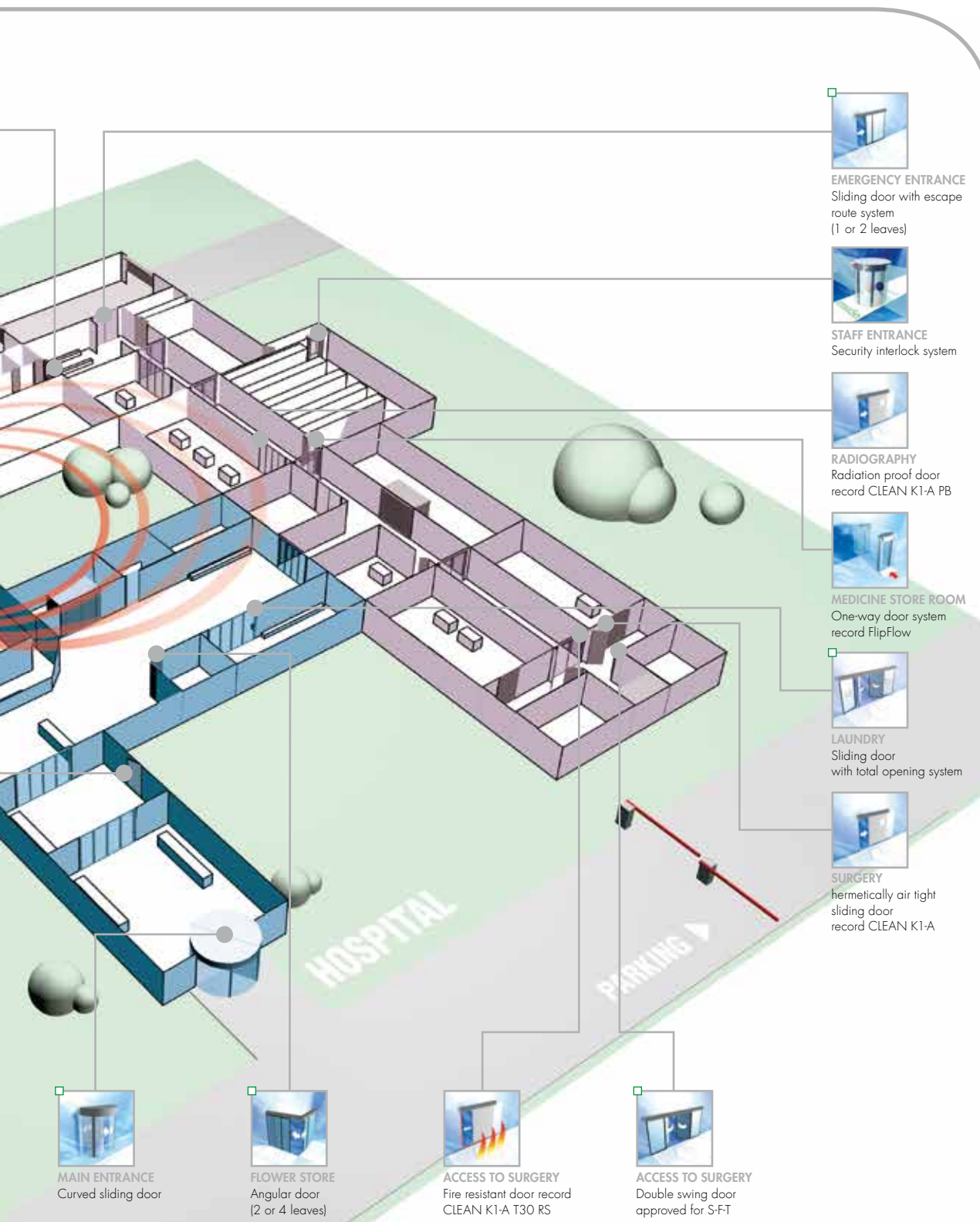


OFFICE ENTRANCE  
Noise-dampening door  
record CLEAN K1-A -dB



ACCESS TO LOUNGE  
Swing door INVERS  
smoke evacuation





**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



**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

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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.





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## 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.



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## 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
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### Motor and Drive

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

### Functional Safety

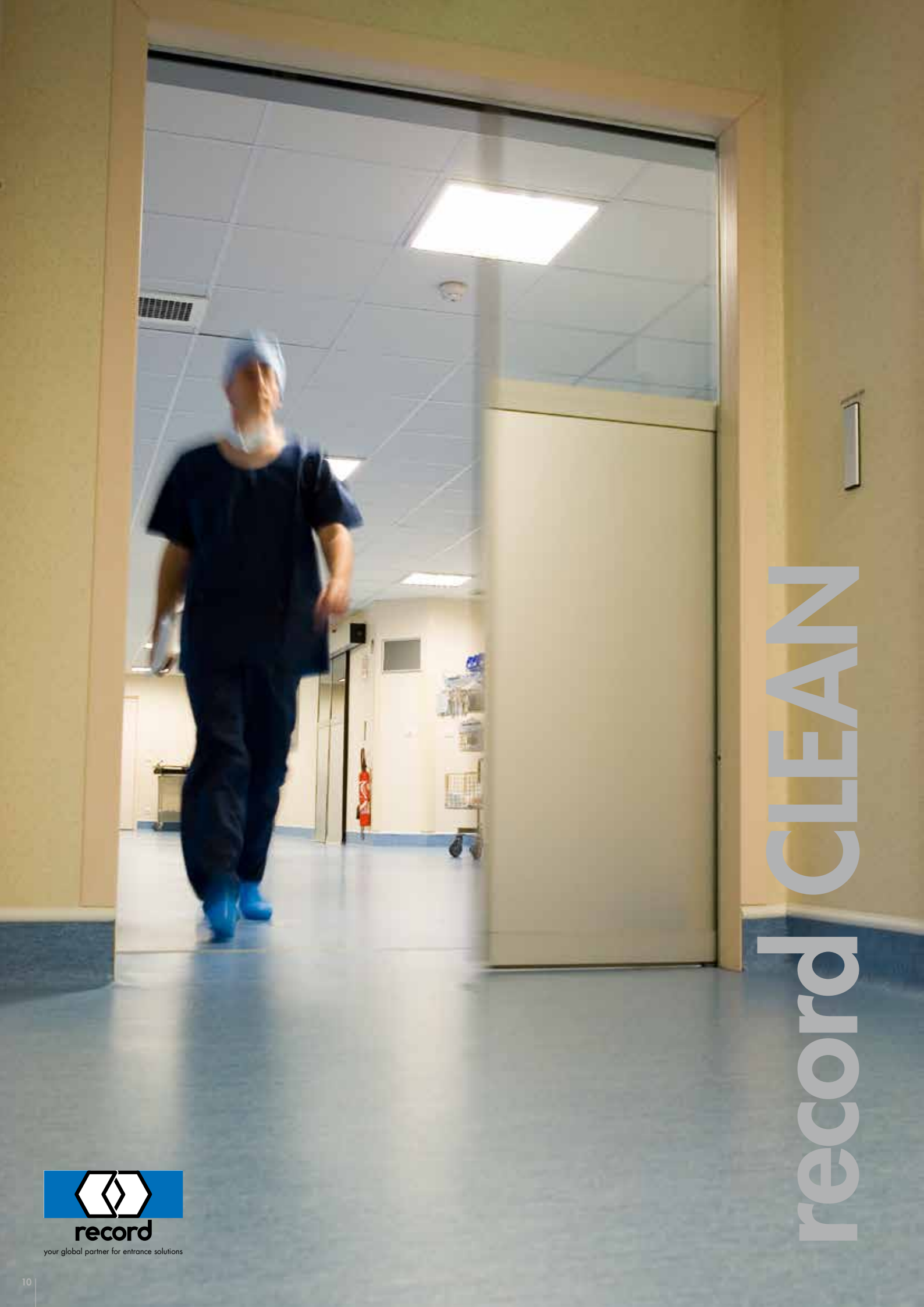
Speed	Selectable from 0.03 – 0.5 m/s
Complies with norms and conditions	EN 16005, EN 18650, EI 30: EN 1363-1, EN 1634-1, EI 30, EI 60







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## record CLEAN – 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

→ **record UK limited**

Head Office: Unit D, 9 Watt Place – Hamilton International Park – Blantyre – G72 0AH – UK

Central Office: 450a Bradford Road – Batley, WF17 5LW – UK

Southern Office: 17 Invincible Road – Farnborough, GU14 7QU – UK

tel.: +44 1698 376411 – fax: +44 1698 376422 – [info@recorduk.co.uk](mailto:info@recorduk.co.uk) – [www.recorduk.co.uk](http://www.recorduk.co.uk)

→ **record global export**

agtatec ltd – Allmendstrasse 24 – 8320 Fehraltorf – Switzerland

tel.: +41 44 954 91 91 – e-mail: [export@record.global](mailto:export@record.global) – [www.record.global](http://www.record.global)

→ **Headquarters**

agtatec ltd – Allmendstrasse 24 – 8320 Fehraltorf – Switzerland

tel.: +41 44 954 91 91 – e-mail: [info@record.group](mailto:info@record.group) – [www.record.group](http://www.record.group)

