

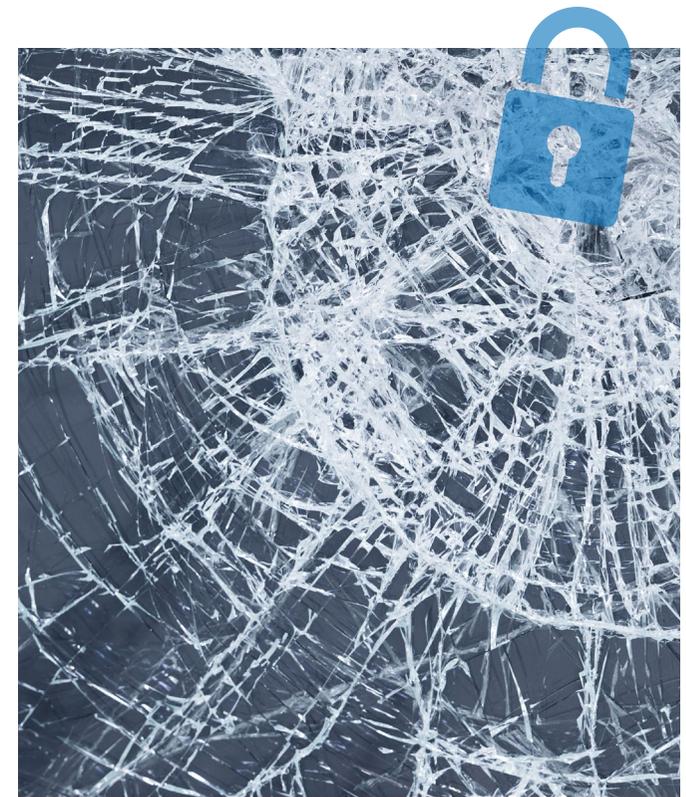
record THERMCORD with STA 20 drive



Can industrially manufactured products be «green»?



How quiet is quiet?



How secure are record doors?

Can industrially manufactured products be «green»?

The awareness of using natural resources responsibly is also reflected in the requirements for buildings and their elements such as windows and doors, leading to an improved indoor climate and a reduction in energy costs.

record takes this new awareness into account, which is why record's automatic door systems are constantly being further developed and make a decisive contribution to environmental protection, sustainability and energy efficiency.

In the manufacture of controls and electrical components, we comply with EU Directive 2011/65/EU, which regulates the restriction and use of certain hazardous substances in electrical and electronic equipment.

Consequently, record neither uses such hazardous substances nor places them on the market.

More than one third of the energy demand is produced by the in-house photovoltaic system, thus contributing to a sustainable reduction of CO₂ emissions by 20 tons.

Design and technology hand in hand!

Based on the record system 20, a wide range of door variations can be realised. This results in a highly flexible, modular system that can be adapted to a wide variety of conditions, but is fundamentally based on the same components. This shortens the installation period and reduces maintenance costs.



Design

In terms of design, the drives are offered in different heights of 200 mm, 150 mm and 108 mm, which fulfils optimal conditions also for architectural requirements. Safety sensors can also be integrated into the operator, so that the door disappears into the facade.

Escape and rescue routes

record STA 20 operators can move door leaf weights of 2 x 200 kg or 1 x 250 kg and are also suitable and certified for applications in escape and rescue routes.

The record system 20 meets the requirements of the Machinery Directive 2006 / 42 / EC, DIN 18 650, EN 16 005 and all relevant national and international standards.

Speed is not everything

The record STA 20 drives open at a speed of 0.7 m/s. In addition, the closing speed is regulated by standard with >1.5s to < 4 seconds.

However, speed is not everything and how relevant is this in terms of energy efficiency? If there are requirements in terms of U-value, airtightness, watertightness or noise insulation, record THERMCORD³ with its completely thermally separated profile system offers outstanding product properties.

Product properties THERMCORD³ according to EN 16361

record THERMCORD³ is the only product in the world with a complete thermally separated profile system from the fascia to the floor rail and is characterised by outstanding product properties that have been confirmed by ift Rosenheim.

record THERMCORD³: Intelligent design with outstanding advantages

- Weatherproof door
- Tighter than ever, improvement of air impermeability increases indoor climate and energy efficiency
- Certified driving rain tightness even at high air pressures
- Withstands extreme wind loads
- Tested sound tightness according to SSK 1
- Energy-saving door with low U-value of 1.1 W/m²K, complies with EnEV 2016
- record THERMCORD³ offers a comprehensive automatic sliding door solution with outstanding product features, see also the white paper: Thermal barrier from top to bottom



Pdf THERMCORD³



record THERMCORD³ Product properties tested and certified by ift Rosenheim

Air permeability		PPD (3/3/600)	Better airtightness means fewer drafts: tight when it needs to be tight. 50% improvement at 30% higher test pressure compared to the previous product.
Resistance to wind load		PPD (600) A, PPD (400) B, PPD2 C	Excellent tightness works reliably even under enormous loads, even at hurricane force of 110 km/h. The record THERMCORD ³ door system functions perfectly even under loads of 1270 Pa, which corresponds to a wind speed of 150 km/h, and escape and rescue route functions remain guaranteed.
Resistance to wind load safety check		1270 Pa	
Water tightness against driving rain		E 600	Dry entrance areas thanks to superior driving rain tightness E 600 Pa, through the intelligent sealing system and the floor rail with drainage.
Direct airborne sound reduction index		RW = 35 dB	Noise insulation is an increasing factor in sales decisions. record THERMCORD ³ reduces noise by 35 dB and meets sound insulation class 1 according to DIN 4109. This is a typical value for entrance doors of conventional doors. THERMCORD ³ makes a major contribution to a more pleasant indoor climate.
Heat transfer coefficient		UD =1.1 W/m ² K	THERMCORD ³ achieves a U-value of 1.1 W/m ² K due to its completely thermally separated profile system as well as the intelligent sealing system and fulfils the energy efficiency according to EnEV 2016. For this purpose, triple glazing with a U-value (glass) of 0.6 W/m ² K is used.
Building closure		State of the art	Conforming building closure according to the state of the art with complete closure of the building structure

How quiet is quiet?

Brushless motors are quieter than those with brushes, but they cost much more. The motors we use can withstand more than 1 million load cycles. And the loudest part of a sliding door is not the motor, but the gearbox, rollers, wrong choice of material or interference from decoupled profiles.

The low noise level is one of the most striking details of our automatic door and a sign of the highest precision and perfect coordination of the materials used. The combination of a short and therefore low-vibration toothed belt, rollers made of low-wear, noise-reducing plastic, acoustically decoupled tracks, ball-bearing guide rollers and door leaf guides with specially developed guide profiles ensure exceptionally quiet running.

In terms of noise insulation, the record THERMCORD³ is second to none with a noise insulation value of 35 dB.

Reliability and Durability

record STA 20 operators are busy workhorses and work reliably day after day under any conditions. The drives are tested according to EN 16005 and easily meet the required 1 million cycles, which is confirmed by TÜV. In addition, internal tests show that our drives achieve load cycles of up to 2 million cycles.



Interactive communication – state of the art

The STA 20 operator communicates interactively via a proprietary BUS system with the components such as sensors and control unit and enables permanent status monitoring (health check) of the individual components. Thus, the operating status of the door system and its individual electronic components is continuously checked for plausibility by the control unit. The intelligent control system's learning capability further minimises malfunctions – safety first!

Modularity and easy expansion

Modularity is an essential point nowadays with regard to maintenance and fast expandability of additional functions. However, this flexibility sometimes seems to contradict fully integrated solutions in terms of cost. Here, record has found the optimum balance for customer requirements with its STA 20 drive, and new applications can be developed with the extension module (FEM) or the locking modules, for example.

Safety with record doors!

Security is always an issue with doors. Nobody wants uninvited visitors, but especially with automated doors and in buildings with many people, it must also be guaranteed that in an emergency these automated doors work without any doubt.

record offers an unbeatable portfolio of burglar-resistant products for revolving, linear or curved sliding doors suitable for escape and rescue routes. Special design measures, stiffeners and reinforced elements integrated in the door system provide effective protection against intruders. Here record offers various systems with resistance classes such as RC 3 tested and certified according to EN 1627.

RC 3	THERMCORD	PROTECT	CURVED	K 32	K 42
					
RC 3 (EN 1627)	●	●	●	●	●
Escape and rescue route	●	●	●	●	
Thermally separated profiles	●				
With side part	●	●	●		
Without side part	●				
Profile system (mm)	38	30	30		



record Trust

Trust in the right product, the right advice, the right service – always and at all times – competent and close to the customer. That's record with 90,000 drives for automatic door systems worldwide every year.

Headquartered in Switzerland, the record group sells its products and services across the globe and is directly present with subsidiaries in many countries.

Global sales and service contacts: www.record.group/countries