

record THERMCORD

automatic linear door system with heat insulating properties



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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 insulated 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





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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

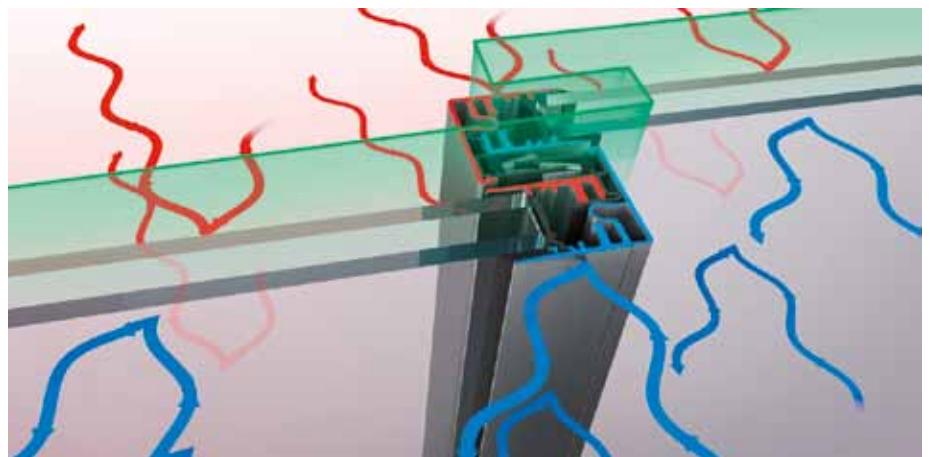
- U_D value of up to $1.4W/m^2 K$
- Opening widths of 800 – 3000 mm for one- or two-sided linear sliding door systems
- Recommended maximum height of passage 3000 mm
- Maximum weight 1 x 150 or 2 x 150 kg with 150mm drive unit height, and 1 x 250 and 2 x 200 kg with 200mm drive unit height
- Available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

thermaccord+



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record THERMCORD⁺ – 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⁺ 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.

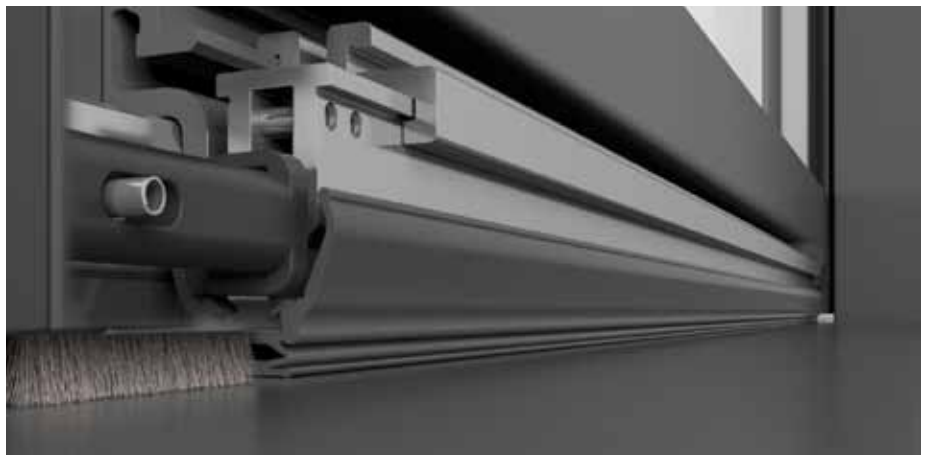
While the main and secondary closing edges are equipped with conventional sealing systems, the sides at the top and bottom feature newly developed so-called active seals. Active seals make it possible for the door to open with no resistance to disturb the smooth running. At the end of the closing process, 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⁺.



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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
Drive dimensions		
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
Maximum door leaf weight		
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* 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_D) 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 ² K	1.4 W / m ² 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





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record system 20 – 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 8000 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!



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