

# record THERMCORD

automatic door system with heat insulating properties



## Brief description

record THERMCORD is an automatic door system that has thermally separated door profiles with heat insulating properties. The ift Rosenheim determined an achievable heat transmission coefficient ( $U_g$ ) of  $1.4 \text{ W/m}^2\text{K}$  featuring approved insulating glazing. THERMCORD is employed as an inside or outside door in areas with a – even temporarily – high temperature differential.

THERMCORD is a complete record in-house development – from the original idea to market introduction. This has allowed us to focus on and implement specific features which are of particular importance to the use as a door system from the very start of the project onward. This distinguishes THERMCORD from most of the systems available on the market, whose construction derives from the facade.

## Noticeably familiar

Barely distinguishable except for its thermal performance, THERMCORD can be subtly incorporated into your global concept and is therefore perfectly suited to replace old installations and complete conventional door systems.

## Well-known control concept

THERMCORD is entirely new. For us, this entails extensive measures concerning its handling. However, as the drive, controller and control unit come from the proven components of record system 20, the difference for our customers is only of limited scope: operation remains menu-based via the record BDE-D display and maintenance costs remain as low as before, thanks to the ultra-silent drive elements from the record STA 20 range, which have proved themselves hundreds of thousands of times. Your heating and air-conditioning costs, on the other hand, will be barely recognisable.

## Key data

- Opening width: 800 – 3000 mm
- Opening speed: up to 0.75 m/s
- Clear height of passage: max. 3000 mm
- Door leaf weight [DUO/RED]: E-STA max. 1 x 150 kg [1 x 150 kg]; D-STA max. 2 x 120 kg [2 x 150 kg]
- Thermal value ( $U_g$ ) up to  $1.4 \text{ W/m}^2\text{K}$
- TÜV certification

## Benefits

- Short amortisation period
- Effective thermal barrier despite narrow door profiles (just 38 mm thick)
- Adapted to visually match our conventional sliding doors
- Explicitly focused on use in automatic doors
- record standard drives with associated benefits
- Well-known control concept

## Options

- Standard or multipoint locking device (VRR or MPV)
- Manual unlocking device inside/outside (HEI/HEA)
- Integrated battery – emergency opening in case of power failure (emergency service configurable)
- Actuating devices and presence sensors (RIC combi-sensor, radar, push-button, etc.)
- Extended functions module FEM for special applications

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## General description

record THERMCORD is our recently developed profile system which, in combination with insulating glazing, produces door leaves and side screens featuring remarkable heat-insulating properties. Standard components from the record system 20 range drive and control the door system.

THERMCORD is suitable for all construction projects where there are entrances with large temperature differentials. It can be used either as an outside or an inside door to insulate buildings from external temperature, or to thermally seal access ways to heated or refrigerated areas within a building.

The THERMCORD profile system has been designed in such a way that no thermal bridge exists between the inner and outer side of a door leaf. This effect is achieved by specially developed plastic elements which link both inside and outside aluminium frames together in an extremely compact arrangement. The sophisticated combination of inserted, screwed and glued components gives the door leaves high stability, comparable to that of the conventional door leaves.

Coated panes of glass filled with inert gas are used as glazing, which are available with various different  $U_G$  (Glazing) thermal transmittance values. Depending upon the application, the panes of glass are supplied as ESD/ESD or VSD/ESD. Taking as a basis reference glazing with a  $U_G$  value of  $1.0W/m^2K$ , the following values specified for doors with the value  $U_D$  (Door) result for record's THERMCORD:

- E-STA 2500 x 3000mm  
Lintel installation with side screens  $1.4W/m^2K$
- D-STA 3000 x 3000mm  
Lintel installation with side screens  $1.5W/m^2K$

## record THERMCORD

Numerous record THERMCORD entrance systems are already in daily use. THERMCORD is also available with a drive height of 150 mm as a single sliding door (E-STA) and as a bi-parting version (D-STA).

An extended drive height of 200 mm, to allow the integration of the robust drive record STA 22 among other things, completes the THERMCORD offer.



## Standard equipment:

- Complete one or two leaf door with or without side screens, with thermally separated 38 mm profile system
- CNS floor track with continuous blade
- Basic accessory, BDE control unit with display, self-calibrating, adaptive to the environment
- Surface coating



## Actuators:

- Motion sensors as surface-mounted or flush-mounted versions:
  - record RAD 290 (radar technology)
  - record RIC 290 (radar and active infrared combined)
  - record AIR 290 (active infrared)
- Pressure sensitive or contact-free push-button
- Radio-frequency (RF) push-button
- Key operated switch



## Safety sensors:

- record AIS 290 (surveillance of secondary closing edges)

## Upgradable into...

- RED redundant version as escape route solution
- DUO double drive version for door leaves with up to 2 x 150 kg weight per side (120 kg standard)

## Installation variants

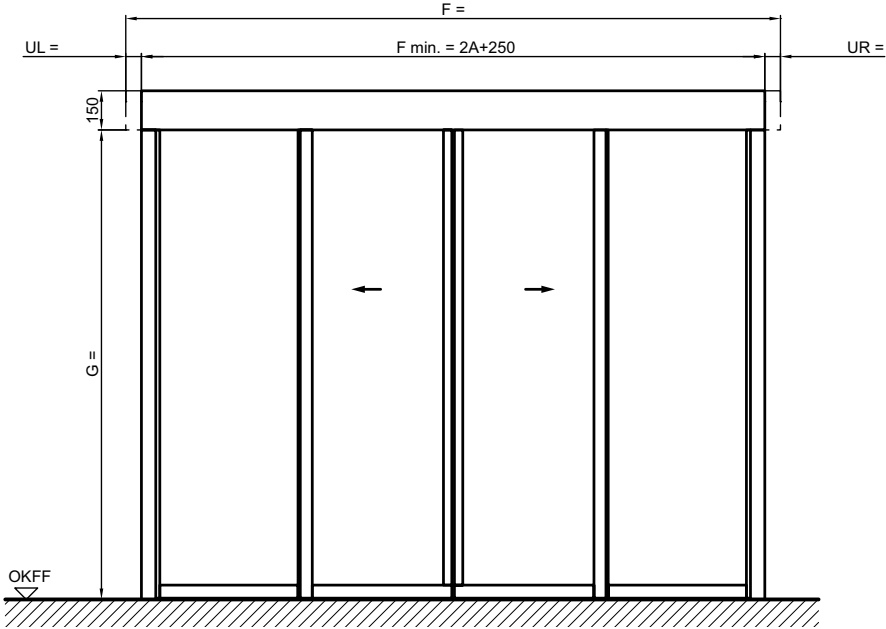
- On the lintel
- Self-supporting from wall to wall

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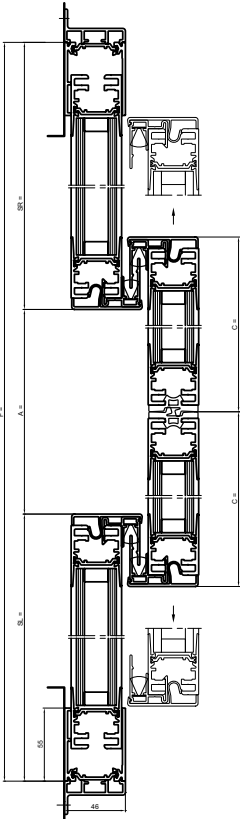
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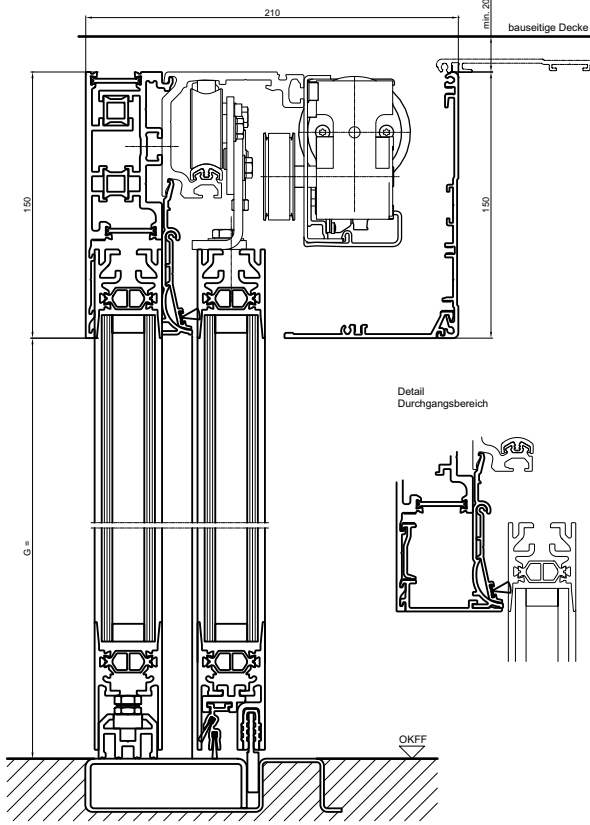
Elevation



Horizontal section



Vertical cross section



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## Technical data

### Basic 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
Door leaf weight [DUO/RED]	maximum 2 x 120kg [2 x 150kg]	maximum 1 x 150kg [1 x 150kg]
Total height	G + 150mm / 200mm	G + 150mm / 200mm
Support length F	minimum 2A+250mm	minimum 2A+125mm

## Electrical connection data

### Connection data STA 20

Power supply voltage	100 – 240VAC, 50/60Hz
Rated power	90W
Maximum power consumption	250 – 300W
Consumption	25W

## Environmental conditions

### Basic data

Thermal value $U_D$	up to 1.4W/m <sup>2</sup> K
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 200W
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

### Drive dimensions

Without side screens (depth x height)	157 x 150mm / 167 x 200mm
With side screen (depth x height)	210 x 150mm / 210 x 200mm



your global partner for entrance solutions

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