



ST  
TST

# The complete range of sliding doors combined in one system

## The ES 200 operator technology sets new trends

The dormakaba Automatic sliding door range is both technologically advanced and flexible in construction. The ES 200 is a slimline unit with exceptional performance and various functions to suit your project and door type. Tested to 1,000,000 cycles, the ES 200 is a high quality, high performing modular automatic sliding door operator unit giving reliable performance. Additional modules and options facilitate made-to-measure solutions for automatic sliding doors.

## Select the door panel system for your requirements

dormakaba automatic sliding doors and telescopic sliding doors provide all applications for the individual design of your entrance area. No matter if you prefer an elegant full-glass application with a compact operator and MANET single-point fixings or a rather functional and robust frame structure, the ES 200 door system is the suitable application for your entrance. ST ES 200 systems not only meet all requirements, they also create new standards when it comes to functional range, motion paths, design, stability and heat insulation.

## Features and benefits

- Unsurpassed performance scope
- Easily adaptable to your individual requirements
- Emergency exit and escape route doors are equipped with a redundant operator, an additional control unit for safety purposes and a self-monitoring motion detector
- Excellent cost effectiveness and reliability thanks to established components and quality-assured production
- Numerous adjustable parameters
- Various standard connection facilities
- Obstacle self-detection and automatic reversing
- Delivery of "ready for installation" systems, mounting and commissioning if desired
- Manufactured according to the latest state of technology and compliant with all regulations
- Optional: individual burglary control

## EN 16005

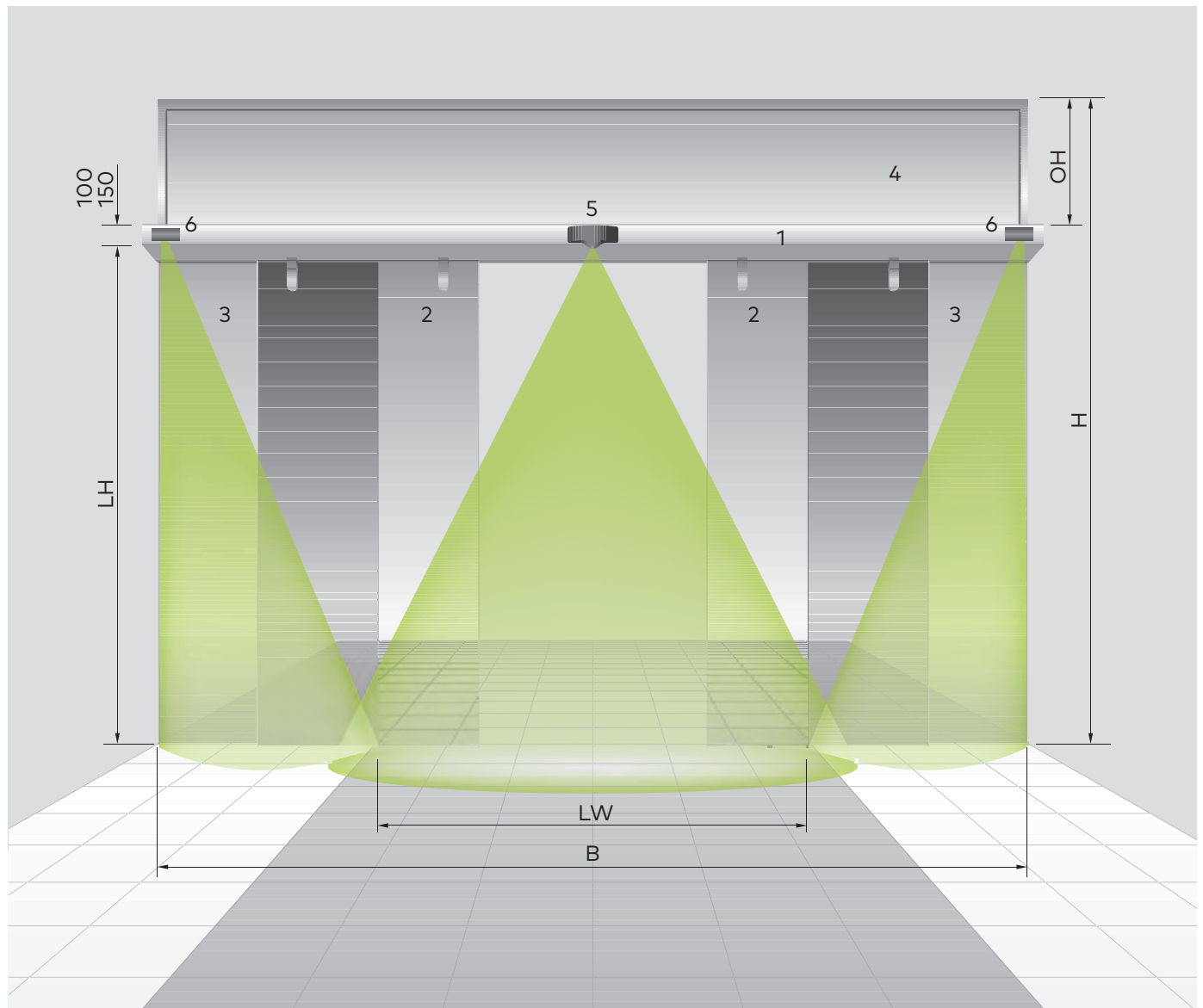
We offer our doors with EN 16005 compliant safety components as indicated on pages 18.

The required safety measures result from the respective risk analysis.

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## Sliding door components



- 1** Unsupported header with track rail, drive unit and control unit
- 2** Sliding door panel
- 3** Stationary side screens (these screens are not required for installation between extending wall faces or similar)

- 4** Fanlight or solid cover
- 5** Activator (e. g. motion detector) including safety sensors to monitor the passage area
- 6** DIN 18650 and EN 16005, sensors to monitor secondary closing edges

- LW** Clear passage width
- LH** Clear passage height
- B** System width
- OH** Height of fanlight
- H** System height

## ST FLEX with flex fine-frame profiles



### Features

- Attractive glass surfaces thanks to slender frames
  - High stability and torsional rigidity
  - Low damping behaviour (k-value) of frame due to double-glazing
  - Excellent insulation features thanks to interlocking side seals and top and bottom seals
  - Select secondary edge safety solution to meet EN 16005 from:
    - full height pocket screens
    - glazed barriers
    - presence sensors
- See page 18

### Important customer benefits at a glance

The full range of performance functions for the dormakaba ES 200 automatic sliding door operator (tested to 1,000,000 cycle)  
 Installation 'project coordinated' by the dormakaba Projects Team  
 Installed and commissioned by dormakaba's highly skilled engineer team to meet the requirements of BS EN 16005 "Power operated pedestrian doorsets. Safety in use. Requirements and test methods"

### System dimensions and max. door-panel weight

Operator	Single-panel version*		Double-panel version	
	Min. system width (B) =	Max. door-panel weight	Min. system width (B) =	Max. door-panel weight
<b>ES 200</b>				
without side screens	2 x LW + 70 mm	1 x 100 kg	2 x LW + 140 mm	2 x 100 kg
with side screens	2 x LW + 100 mm		2 x LW + 140 mm	

\* not considering the width of the door post

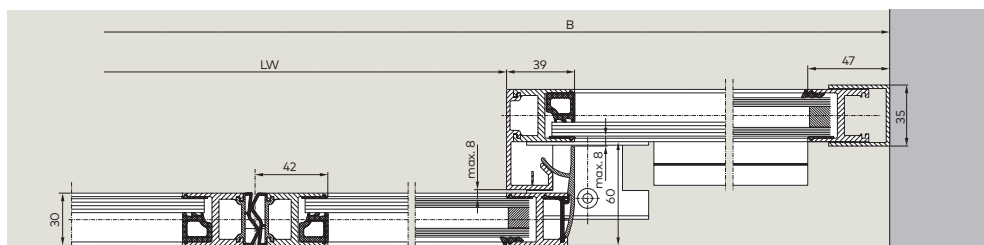
### Glass panes

- Toughened safety glass
- Laminated safety glass, 8 mm
- Iso 22 double-glazing (4/14/4)
- Special glazing

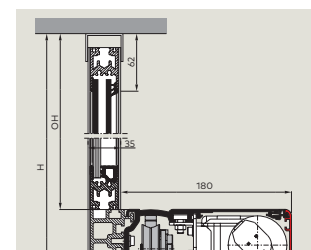
### Clear passage height (LH)

Determination of clear passage height LH (mm) depending on the clear passage width LW (mm) and the glazing:  
 See diagrams on pages 16

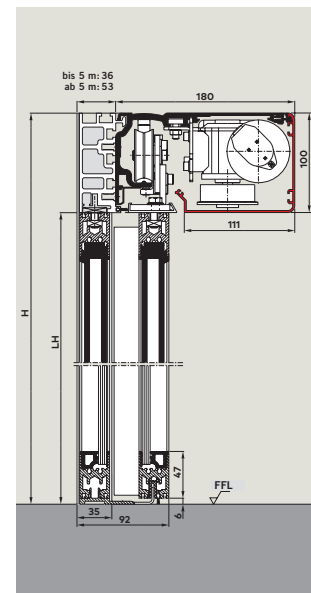
### Horizontal section with side screen



### ST-Flex with fanlight



### Corridor mounting with side screens, operator 100 mm



## ST FLEX Green, FST FLEX Green – Energy efficiency in elegant design



### Features

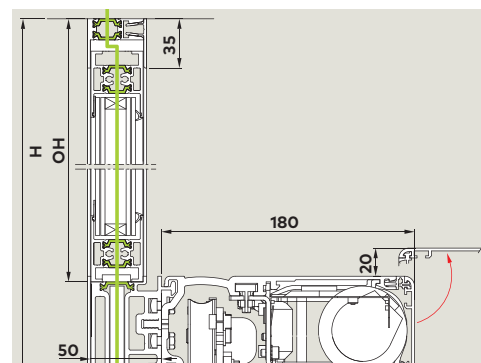
- The slender ST FLEX Green profile system is based on the FLEX profile system and provides thermal insulation in conjunction with excellent energy-saving features.
  - Elegant fine-frame design
  - High stability and rigidity
  - Protection against draughts via circumferential seals
  - Select secondary edge safety solution to meet EN 16005 from:
    - full height pocket screens
    - glazed barriers
    - presence sensors
- See page 18

### System dimensions and max. door-panel weight

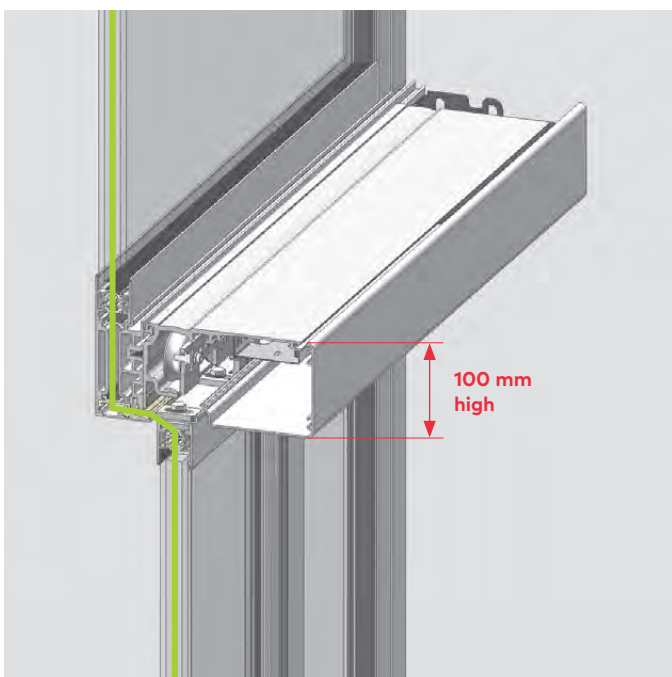
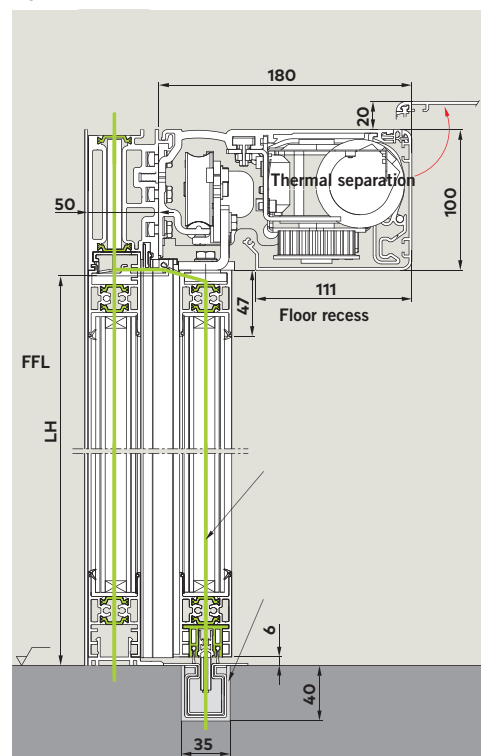
Operator	Single-panel version*		Double-panel version	
	Min. system width (B) =	Max. door-panel weight	Min. system width (B) =	Max. door-panel weight
ES 200				
without side screens	2 x LW + 60 mm	1 x 200 kg	2 x LW + 120 mm	2 x 160 kg
with side screens	2 x LW + 80 mm	1 x 200 kg	2 x LW + 160 mm	2 x 160 kg

\* not considering the width of the door post

### ST Flex Green with fanlight



### Corridor mounting with side screens, operator 100 mm



**Evidence of Performance**  
Thermal transmittance

Test Report No. 10-001011-PB09-A01-06-en-01

**ift**  
ROSENHEIM

**Client:** DORMA GmbH + Co. KG  
DORMA Platz 1  
58296 Ennepetal  
Germany

**Product:** Automatic sliding door, double leaf

**Designation:** ST FLEX Green

**Dimensions:**  
Top: 147 mm  
Lateral: 68 mm  
Middle: 50 mm / 104 mm  
Bottom: 66 mm

**Material:** Aluminium profile with thermal break

**Surface:** Powder coated, anodized  
Type: continuous bars  
Material: Polyamide 6.6 reinforced with 25% glass fiber  
Inlay: rigid polyurethane foam in the upper profiles  
Metal surfaces in thermal break: lightly oxidized surfaces, e.g. cavities after surface treatments by immersion

**Type of opening:** Parallel sliding casement  
Insulating glass units:  
 $U_g$  value of 1.0 W/(m<sup>2</sup> · K)  
Construction: 7VSG / 15 / 7VSG mm  
Gas filling: Argon 90 %  
Coating level: Pos 3.  $\epsilon_s = 0.01$  (nominal value)  
Spacer: TGI-Spacer

**Special features:**

**Thermal transmittance**

$U_D = 1.4 \text{ W/(m}^2 \cdot \text{K)}$

**Notes on publication:**  
The test results provided refer solely to the tested and described object.  
The determination of the thermal transmittance does not allow any statement to be made on further characteristics regarding performance and quality of the existing construction.

**Contents:**  
The report contains a total of 17 pages:  
1. Cover  
2. Protocol  
3. Detailed results

**ift Rosenheim**  
13. Oktober 2011  
F. Remiger  
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Building Physics

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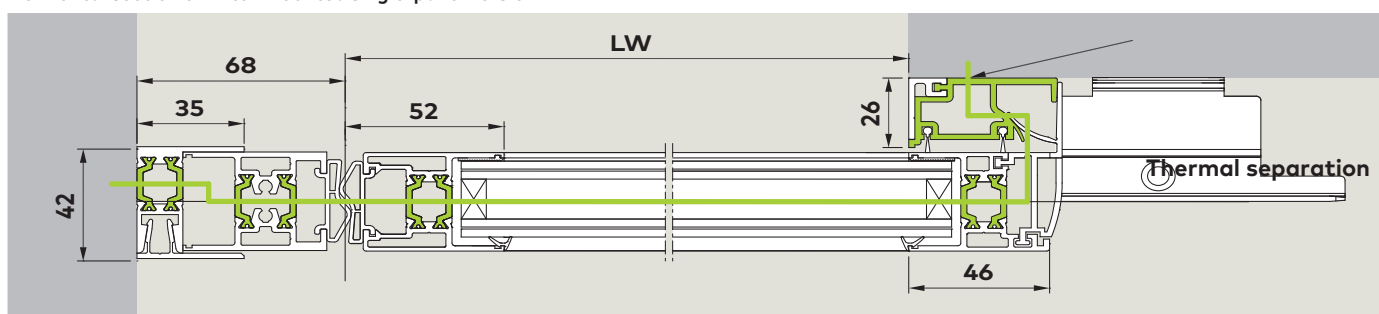
**ift Rosenheim GmbH**  
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### Important customer benefits at a glance

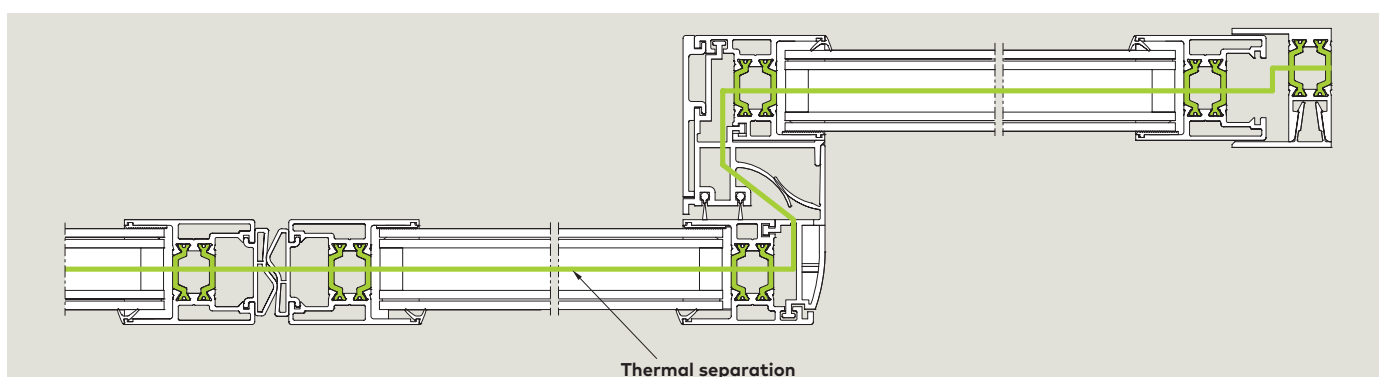
- Very low  $U_D$ -values from 1.4 to max. 1.8 (thermal transmission co-efficient)
- Tested quality with ift Rosenheim approval
- Compliant with the German energy-saving regulation (EnEV 2009)
- Sustainable, reliable and energy-saving system
- Interior and entrance doors in the same design to harmonise with the building's overall look
- Individual  $U_D$ -value certificates for each ST FLEX Green door system
- Glass panes with rugged but elegant frames
- Installation 'project coordinated' by the dormakaba Projects Team
- Installed and commissioned by dormakaba's highly skilled engineer team to meet the requirements of BS EN 16005 "Power operated pedestrian doorsets. Safety in use. Requirements and test methods"
- The full range of performance functions for the dormakaba ES 200 automatic sliding door operator (tested to 1,000,000 cycle)

The ST FLEX Green fulfils the requirements of the latest German energy-saving regulation (EnEV 2009) and harmonises perfectly with the existing dormakaba sliding door range. Even the smallest ST FLEX Green door system meets the requirements of the German EnEV 2009, which stipulates a certain  $U_D$ -value (thermal transmission co-efficient) for complete door systems.

Horizontal section of lintel-mounted single-panel version



Double-panel version with side screen





## ST FLEX Secure sliding door with anti-intruder protection



### Features

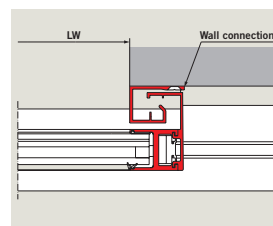
- Burglar resistant fine framed automatic door system
  - Tested burglar resistance RC2
  - Secure 4-point locking device
  - Monitored battery back-up system suitable for use on emergency escape routes
  - Special burglar resistant laminated safety glass
  - Select secondary edge safety solution to meet EN 16005 from:
    - full height pocket screens
    - glazed barriers
    - presence sensors
- See page 18

### Important customer benefits at a glance

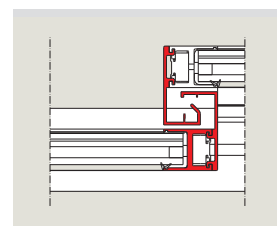
- Excellent intruder protection
- Appealing fine frame profiles
- Functionality as a high usage automatic sliding door in normal use
- In contrast to similar security doorsets, there are no visible barriers. Thus, your frontage remains as transparent and inviting as ever without any negative effect on its appearance
- Installation 'project coordinated' by the dormakaba Projects Team
- Installed and commissioned by dormakabas highly skilled engineer team to meet the requirements of BS EN 16005 "Power operated pedestrian doorsets. Safety in use. Requirements and test methods"
- The full range of performance functions for the dormakaba ES 200 automatic sliding door operator (tested to 1,000,000 cycle)

Evidence of performance		Burglar resistance	
<b>Expert statement</b> 10-001167-PR02 dated 18. October 2011 (BAS01-C01-05-en-01)			
Translation of Expert Statement 10-001167-PR02 dated 8 October 2011			
Client	<b>DORMA GmbH + Co. KG</b> DORMA Platz 1 58256 Ennepetal Germany		
Product	<b>Burglar resistant sliding door system, WK2 (RC2)</b>		
Designation	<b>ST FLEX SECURE / FST FLEX SECURE</b>		
Class regarding resistance (W + H)	<b>different (see type list)</b>		
Material	<b>Aluminium, DORMA profile system ST FLEX, DORMA operator profiles ES200</b>		
Access	<b>External face</b> Two leaf / single leaf sliding, with / without glazed side panels, with / without glazed top light 1 - / 2 - / 3-part		
Type of opening	<b>DIN EN 356 Klasse P4A</b>		
Opening	Multipoint lock Fuhr Type 3 pivoted bolt lock with 4 pivoted bolts as per DIN 18251 Class 4; Profile cylinder as per DIN 18252 P2B2; continuous strike plate; continuous coupling rim ST FLEX; continuous disengagement protection in drive; continuous DORMA floor guide track		
Hardware	<b>As per installation instructions from company DORMA GmbH + Co. KG</b>		
Installation	<b>As per installation instructions from company DORMA GmbH + Co. KG</b>		
<b>Burglar resistance</b> <b>Resistance Class RC 2*)</b>		Basis: DIN EN 1627 : 2011 (Windows, doors, shutters + / built-up resistance - Requirements and classification) DIN EN 1628 : 2011 DIN EN 1629 : 2011 DIN EN 1630 : 2011	
*) on the basis of the mentioned test reports and the complementary, change-related specifications		Test report 10-001167-PR01-02-05-de-01 dated 25 December 2010 Result protocol 10-001200-PR01 (EP01-C01-05-de-01) dated 08 July 2011 Result protocol 10-001200-PR02 (EP01-C01-05-de-01) dated 08 July 2011 Design sheets: Annex 1, sp. 1 to 13 Annex 2, sp. 1 to 38 Validity: Testing for burglar resistance does not allow any statement to be made on any further characteristics regarding performance and quality of the construction submitted. Validity of the expert statement expires with expiry of accuracy of the above items referred to in these documents or test reports. Notes on publication: The ift Guidance Sheet "Conditions and Guidance for the use of ift Test Reports" applies. The cover sheet including the type list can be used as an add-on.	
ift ROSENHEIM 18. October 2011  Robert Kippach, Dr.-Ing. (FH) Deputy Head of Testing Department Building Construction		ift ROSENHEIM 18. October 2011  Jens Pichler Managing Technical Officer Mechanical	
ift ROSENHEIM 18. October 2011  Thomas Gellert, Dr.-Ing. (FH) Deputy Head of Testing Department Building Construction		ift ROSENHEIM 18. October 2011  Thomas Gellert, Dr.-Ing. (FH) Deputy Head of Testing Department Building Construction	

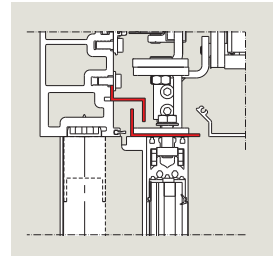
### Wall connection



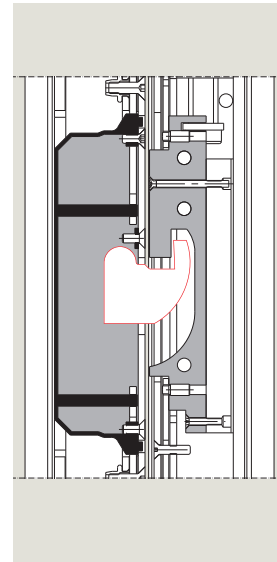
### Unlocking of sliding panel



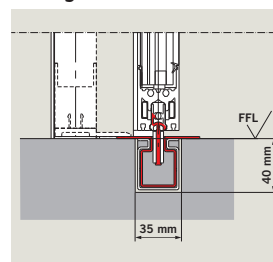
### Security feature inside operator



### Main closing edge



### Floor guide



## TST FLEX with flex fine-frame profiles



### Features

- Attractive glass surfaces thanks to slender frames
  - High stability and torsional rigidity
  - Low damping behaviour (k-value) of frame due to ISO glazing (double-glazing)
  - Excellent insulation features thanks to interlocking side seals and top and bottom seals
  - Select secondary edge safety solution to meet EN 16005 from:
    - full height pocket screens
    - glazed barriers
    - presence sensors
- See page 18

### Important customer benefits at a glance

- Allows maximum opening width to be achieved thereby easing traffic flow
- Installation 'project coordinated' by the dormakaba Projects Team
- Installed and commissioned by dormakaba's highly skilled engineer team to meet the requirements of BS EN 16005 "Power operated pedestrian doorsets. Safety in use. Requirements and test methods"
- The full range of performance functions for the dormakaba ES 200 automatic sliding door operator (tested to 1,000,000 cycle)

#### System dimensions and max. door-panel weight

Operator	Opening to one side*		Opening to two sides	
	Min. system width (B) =	Max. door-panel weight	Min. system width (B) =	Max. door-panel weight
<b>ES 200</b>				
without side screens	1.5 x LW + 60 mm	2 x 75 kg	1.5 x LW + 80 mm	4 x 75 kg
with side screens	1.5 x LW + 105 mm	2 x 75 kg	1.5 x LW + 170 mm	4 x 75 kg

\* not considering the width of the door post

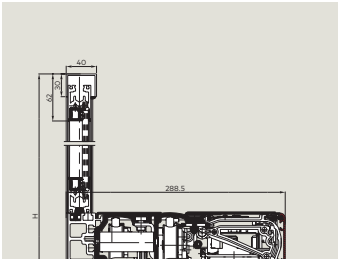
#### Glass panes

- Iso 22 double-glazing (4/14/4)
- Iso 22 double-glazing (6/10/6)
- Special glazing

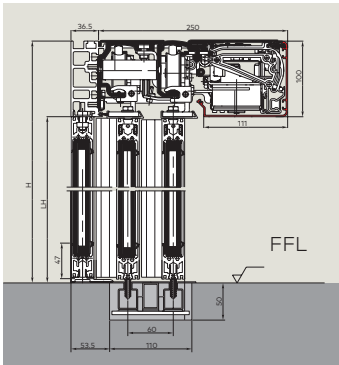
#### Clear passage height (LH)

Determination of clear passage height LH (mm) depending on the clear passage width LW (mm) and the glazing: see diagrams on pages 18/19

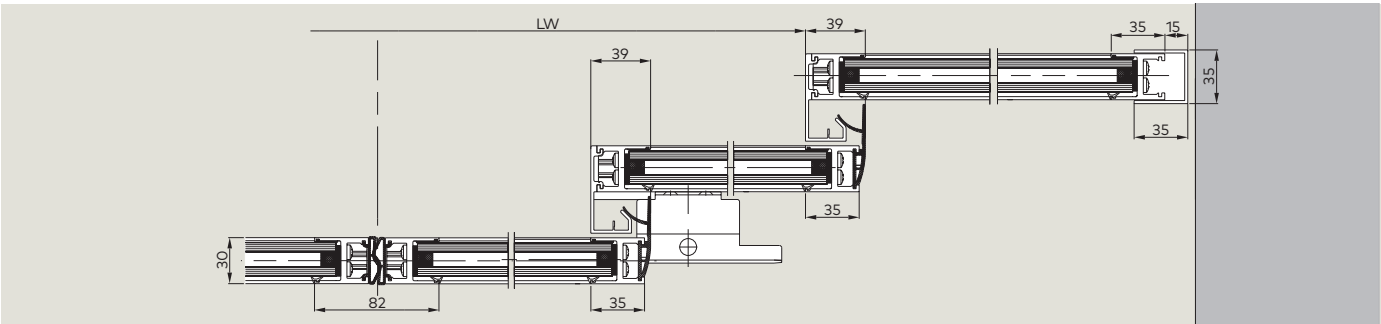
TST FLEX with fanlight



Corridor mounting with side screens, operator 100 mm



#### Horizontal section with side screen



Escape route version: Please consider the prevailing country-specific regulations.



## ST G with fine framed door leaves



### Features

- Fine framed door leaves
  - Single glazed only
  - Select secondary edge safety solution to meet EN 16005 from:
    - full height pocket screens
    - glazed barriers
    - presence sensors
- See page 18

### Important customer benefits at a glance

- The dormakaba ES 200 automatic sliding door operator provides both quality and assurance, having been tested to 1,000,000 cycles
- ST-G can be tailor made in the UK to suit your individual needs
- Installation 'project coordinated' by the dormakaba Projects Team
- Installed and commissioned by dormakaba's highly skilled engineer team to meet the requirements of BS EN 16005 "Power operated pedestrian doorsets. Safety in use. Requirements and test methods"

### System dimensions and max. door-panel weight

Operator	Single-panel version*		Double-panel version	
	Min. system width (B) =	Max. door-panel weight	Min. system width (B) =	Max. door-panel weight
<b>ES 200</b>				
without side screens	$2 \times LW + 50 \text{ mm}$	1 x 200 kg	$2 \times LW + 100 \text{ mm}$	2 x 160 kg
with side screens	$2 \times LW + 100 \text{ mm}$	1 x 200 kg	$2 \times LW + 180 \text{ mm}$	2 x 160 kg

\* not considering the width of the door post

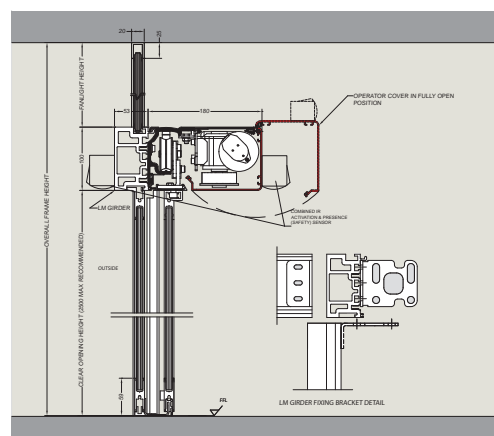
### Glass panes

- Toughened safety glass
- Laminated safety glass, 8 mm
- Special glazing

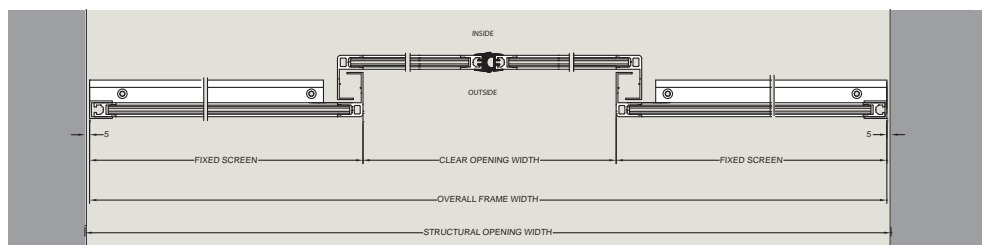
### Clear passage height (LH)

Determination of clear passage height LH (mm) depending on the clear passage width LW (mm) and the glazing: See diagrams on page 16

### Corridor mounting with side screens, operator 100



### Horizontal section with side screen



## ST-S with robust aluminium framing



### Features

- Combined with laminated or toughened safety glass
  - Select secondary edge safety solution to meet EN 16005 from:
    - full height pocket screens
    - glazed barriers
    - presence sensors
- See page 18

### Important customer benefits at a glance

- Robust framing for high traffic, high usage environments
- The dormakaba ES 200 automatic sliding door operator provides both quality and assurance, having been tested to 1,000,000 cycles
- ST-S can be tailor made in the UK to suit your individual needs
- Installation 'project coordinated' by the dormakaba Projects Team
- Installed and commissioned by dormakaba's highly skilled engineer team to meet the requirements of BS EN 16005 "Power operated pedestrian doorsets. Safety in use. Requirements and test methods"

### System dimensions and max. door-panel weight

	Single-panel version*		Double-panel version	
Operator	Min. system width (B) =	Max. door-panel weight	Min. system width (B) =	Max. door-panel weight
<b>ES 200</b>				
without side screens	$2 \times LW + 50 \text{ mm}$	1 x 200 kg	$2 \times LW + 100 \text{ mm}$	2 x 160 kg
with side screens	$2 \times LW + 100 \text{ mm}$	1 x 200 kg	$2 \times LW + 180 \text{ mm}$	2 x 160 kg

\* not considering the width of the door post

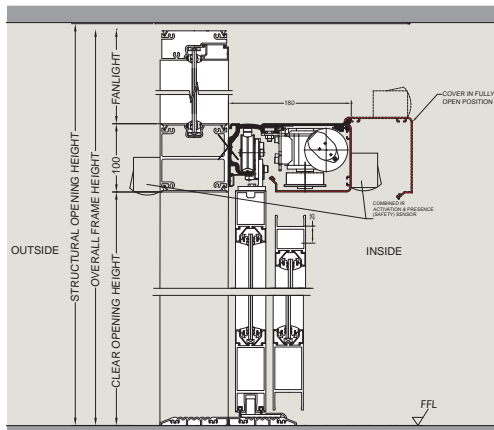
### Glass panes

- Toughened safety glass
- Laminated safety glass, 8 mm
- Iso 22 double-glazing (4/14/4)
- Special glazing

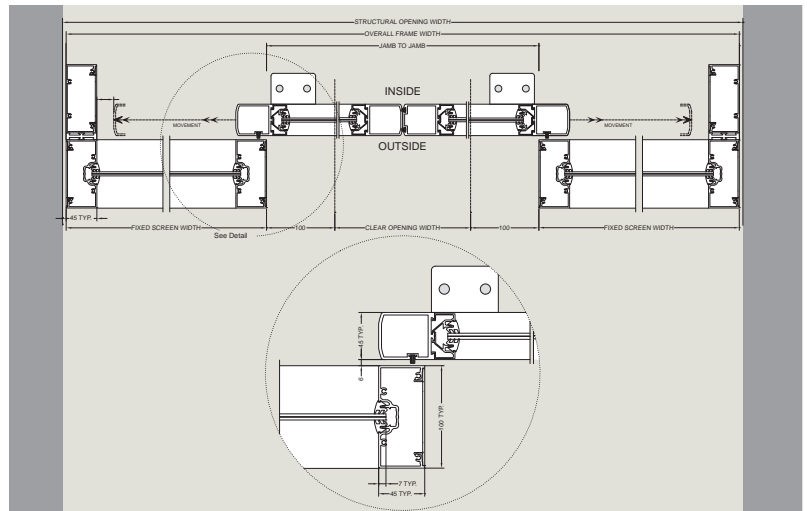
### Clear passage height (LH)

Determination of clear passage height LH (mm) depending on the clear passage width LW (mm) and the glazing: See diagrams on page 16

### Corridor mounting with side screens, operator 100 mm



### Horizontal section with side screen



## ST MANET, with MANET single-point fixings for full-glass doors



### Features

- For interior doors
  - Weightless design thanks to unobtrusive stainless steel single-point fixings
  - Versatile component range with various fitting options for walls, floors and ceilings, and to link glass elements
  - Select secondary edge safety solution to meet EN 16005 from:
    - full height pocket screens
    - glazed barriers
    - presence sensors
- See page 18

### Important customer benefits at a glance

- The dormakaba ES 200 automatic sliding door operator provides both quality and assurance, having been tested to 1,000,000 cycles
- ST MANET can be tailor made in the UK to suit your individual needs
- Installation 'project coordinated' by the dormakaba Projects Team
- Installed and commissioned by dormakaba's highly skilled engineer team to meet the requirements of BS EN 16005 "Power operated pedestrian doorsets. Safety in use. Requirements and test methods"

### System dimensions and max. door-panel weight

Operator	Single-panel version*		Double-panel version	
	Min. system width (B) =	Max. door-panel weight	Min. system width (B) =	Max. door-panel weight
<b>ES 200</b>				
without side screens	$2 \times LW + 70 \text{ mm}$	1 x 200 kg	$2 \times LW + 140 \text{ mm}$	2 x 160 kg
with side screens	$2 \times LW + 100 \text{ mm}$	1 x 200 kg	$2 \times LW + 140 \text{ mm}$	2 x 160 kg

\* not considering the width of the door post

### Glass panes

- Toughened safety glass (TSG) 10 mm
- Special glazing

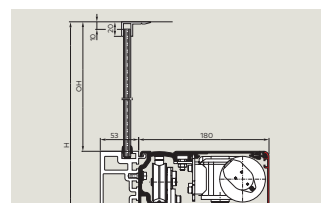
### Clear passage height (LH)

Determination of clear passage height LH (mm) depending on the clear passage width LW (mm) and the glazing: see diagrams on page 16

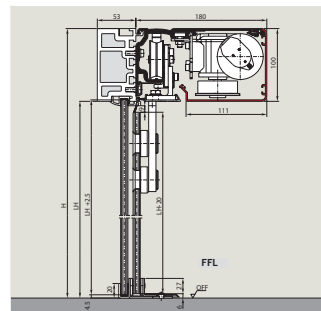
### Please consider the limited opening dimensions on application of MANET single-point fixings:

Single-panel version max.	Clear passage width (LW)	1600 mm
	Clear passage height (LH)	2500 mm
Double-panel version max.	Clear passage width (LW)	2000 mm
	Clear passage height (LH)	2500 mm

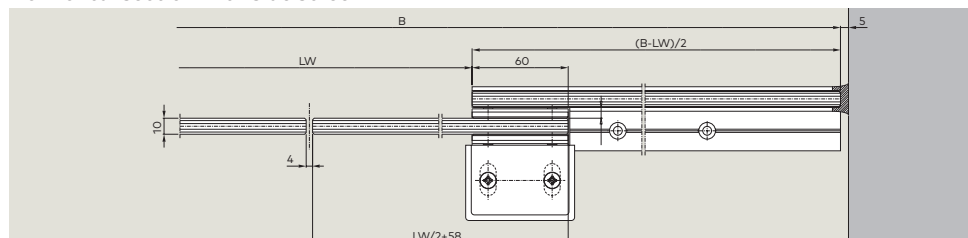
ST MANET with fanlight



Corridor mounting with side screens, operator 100 mm



### Horizontal section with side screen



## ST-AP with frameless door leaves and side panels



### Features

- Frameless door leaves with top and bottom rails or manet patch fittings
  - Frameless door leaves with maximum visual transparency
  - Select secondary edge safety solution to meet EN 16005 from:
    - full height pocket screens
    - glazed barriers
    - presence sensors
- See page 18

### Important customer benefits at a glance

- The full range of performance functions for the dormakaba ES 200 automatic sliding door operator (tested to 1,000,000 cycles)
- Tailored sizes and bespoke manufacture in the UK to suit your project
- Installation 'project co-ordinated' by dormakaba Projects Team
- Installed and commissioned by dormakaba's highly skilled engineer team to meet the requirements of BS EN 16005 "Power Operated Pedestrian Doorsets. Safety in Use. Requirements & Test Methods"

### System dimensions and max. door-panel weight

Operator	Single-panel version*		Double-panel version	
	Min. system width (B) =	Max. door-panel weight	Min. system width (B) =	Max. door-panel weight
<b>ES 200</b>				
without side screens	$2 \times LW + 50 \text{ mm}$	1 x 200 kg	$2 \times LW + 100 \text{ mm}$	2 x 160 kg
with side screens	$2 \times LW + 100 \text{ mm}$	1 x 200 kg	$2 \times LW + 180 \text{ mm}$	2 x 160 kg

\* not considering the width of the door post

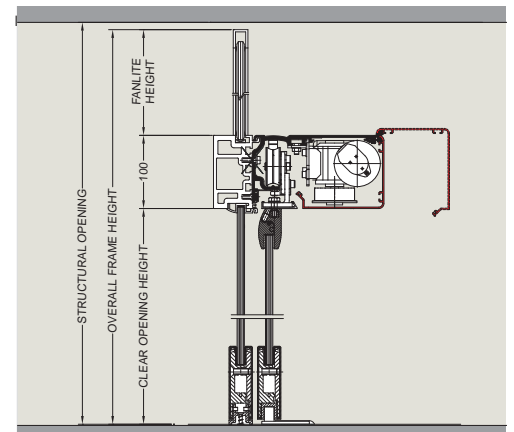
### Glass panes

- Toughened safety glass (10/12mm)
- Special glazing

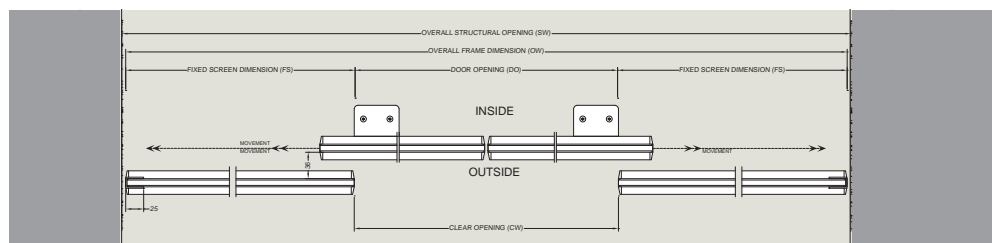
### Clear passage height (LH)

Determination of clear passage height LH (mm) depending on the clear passage width LW (mm) and the glazing:  
See diagrams on page 16

### Corridor mounting with side screens, operator 100



### Horizontal section with side screen



## Operator data ES 200

Door parameters		ES 200
Single-panel sliding door	– Clear passage width (LW) <sup>1)</sup> – Max. door-panel weight	700 – 3000 mm 1 x 200 kg
Double-panel sliding door	– Clear passage width (LW) <sup>1)</sup> – Max. door-panel weight	800 – 3000 mm 2 x 160 kg
Clear passage height <sup>1)</sup>		2100 – 3000 mm

Door parameters		EST 200
Double-panel sliding door, opening to one side	– Clear passage width (LW) <sup>1)</sup> – Max. door-panel weight	800 – 2400 mm 2 x 75 kg
4-panel sliding door, opening to both sides	– Clear passage width (LW) <sup>1)</sup> – Max. door-panel weight	1400 – 4000 mm 4 x 75 kg
Clear passage height*		2100 – 3000 mm

<sup>1)</sup> Other dimensions on request.

Designs		ES 200
Profile systems	ST FLEX GREEN fine-frame profile	●
	ST FLEX SECURE fine-frame profile	●
	FLEX fine-frame profile	●
	ST-G fine-frame profile	●
	ST-S robust frame profile	●
	ST-AP frameless	●
	MANET single-point fixing max. clear passage width (LW) single-panel version = 1600 mm double-panel version = 2000 mm Not suitable for telescopic doors	●
Operator height/depth	100 mm x 180 mm	●
	150 mm x 180 mm	●
Floor-integrated guide rail		○
Surface-mounted installation without floor guide rail (consider wind load and burglary control)		●

Technical specifications	
Suitable for application in emergency exits and escape routes	●
Max. opening and closing force 150 N	●
Opening speed (incremental setting)	10 – 75 cm/s
Closing speed (incremental setting)	10 – 50 cm/s
Hold-open time	0 – 180 s
Power supply/frequency	230 V, 50/60 Hz
Power consumption	250 W
Class of protection	IP 20
Admissible temperature	-20 – +60 °C
Admissible humidity (relative)	max. 93 % (non condensing)
Tested according to Low Voltage Directive	●
Manufactured to ISO 9001	●
	●

● standard ○ optional - no



Basic Module (BM)		ES 200
Modular design		Basic Module (BM)
Microprocessor control		●
Function programs	<ul style="list-style-type: none"> <li>– Off</li> <li>– Automatic</li> <li>– Permanent Open</li> <li>– Partial Open</li> <li>– Exit Only</li> <li>– Night-/Bank Function</li> </ul>	●
Automatic reversing		●
Connection for electromechanical locking device (bistable)		●
Connection for safeguarding of passage area (on both sides)		●
Equipped in accordance with DIN 18650 and EN 16005		●
Adjustment of all basic parameters via integrated display and keys		●
Parametrisation via handheld		●
Emergency opening/closing (only with rechargeable battery pack)		○
Emergency operation via rechargeable battery pack (only with rechargeable battery pack)		○
Synchronous operation		●
24 V output for external accessories		●
Read-out error log with error codes		●
DCW® bus connection (Protocol <b>D</b> ormakaba <b>C</b> onnect and <b>W</b> ork)		●
<b>Function Module (FM) - optional</b>		
Pharmacy Function		●
Door status contact (3 x)		●
Safeguarding of main and secondary closing edge/s		○
Bell contact		●
Airlock control		●
<b>Secondary Edge Function Module - optional</b>		
The function module provides tested monitoring of the secondary closing edges for compliance with EN 16005		○
<b>Additional equipment</b>		
Electromechanical locking device (bistable)		○
Manual lock release for electromechanical locking device		○
Light curtains		○
Rechargeable battery pack (emergency opening/closing)		○
dormakaba USV emergency power supply unit (external)		○
Module for coupling to LON/LAN building control system		○
● standard   ○ optional   - no		

## Determination of door panel size

The diagrams show the dependence of the clear passage height (LH) on the clear passage width (LW).

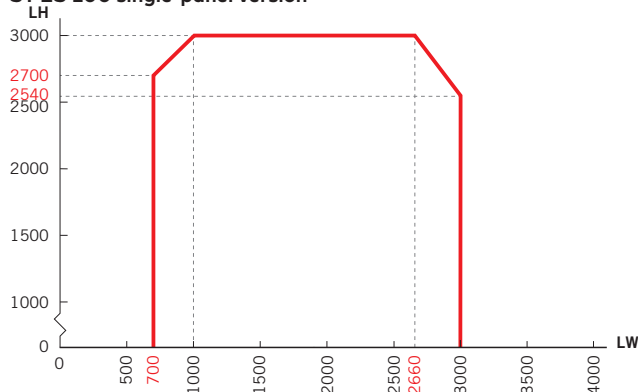
The maximum door-panel weight of the relevant operators must not be exceeded. We recommend smaller doors for areas with unfavourable wind conditions.

The charts refer to an average door panel weight of 25 kg/m<sup>2</sup>.

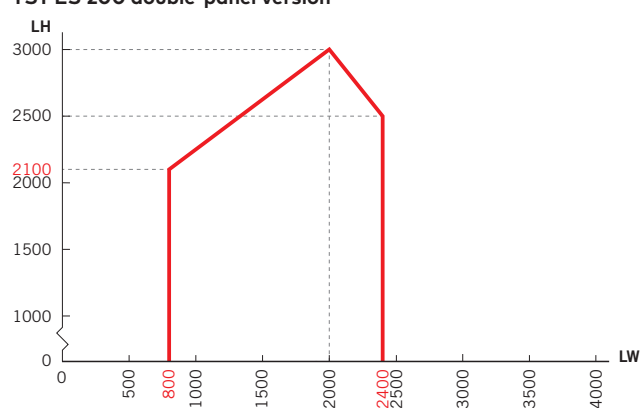
Higher clear passage heights (LH) on demand.

If using Manet fittings please refer to page 12 for specific opening dimensions.

**ST ES 200 single-panel version**



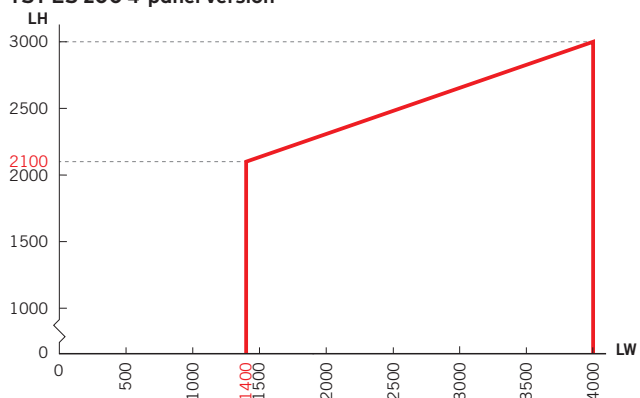
**TST ES 200 double-panel version**



**ST ES 200 double-panel version**



**TST ES 200 4-panel version**



# The complete solution

Automatic entrance systems require careful specification and installation to ensure safety and reliability in use. Commencing with a risk assessment survey, dormakaba will advise at all stages of design and installation so the correct methods of operation and user safety protection are adopted.

## Risk Assessment

**All automatic doors must be specified and installed following appropriate safety standards requiring risk assessment prior to installation and periodically during the life of the product. dormakaba are experienced with safety specification and can provide further details on request.**

Professional and impartial advice from staff assessed and accredited by ADSA (Automatic Door Suppliers Association):

- Site surveys, escape routes, impaired user access.
- Risk assessment reports
- Consultation with leading safety bodies and equipment manufacturers.
- CPD delivery to specifiers and professional organisations



## Protection

**Automatic doors installed in the UK are subject to the highest safety demands in accordance with EN 16005:2012. To meet these requirements consideration must be given to the use of barriers, self-monitoring sensors and other protective devices. These are mandatory for each door and uniquely specific to its location.**

Advanced, standards-compliant technologies for all door types:

- Compact sensors with microwave Doppler technology for motion detection
- Combination sensors with active infrared technology for simultaneous motion and passageway protection
- Active infrared motion detectors based on the triangulation principle for protection of users or obstructions located in the door panel travel path
- Laser sensors with precision monitoring and extended field of view over the door face
- Barriers, fingerguards and appropriate signage for increased risk users, children or failsafe situations



# Activation

dormakaba automatic doors are designed and tested to meet a wide range of building entrance styles and user requirements. Access to the building can be controlled through a number of methods from simple switches and keylocks to intelligent access control readers.

Wide choice of access methods from dormakaba:

- Radar approach sensors, opening integrated with emergency escape systems
- Manual pushbuttons with high visibility and ease of use for disabled users.
- Access control readers using simple access fobs or fully integrated with a monitored access control system



# Maintenance

Automatic doors must be maintained and periodically assessed to be safety compliant. dormakaba have the UK's largest service network of trained engineers experienced on all types of door system both dormakaba and from other manufacturers.

Qualified service engineers assessed and accredited by ADSA:

- Scheduled maintenance visits and emergency callout.
- Risk assessment reports
- Trained and accredited service engineers with national coverage and logistic support



For further advice on dormakaba products and accessories please contact:

01462 477600