DORMA

ST
TST

Automatic
Sliding door systems

The complete range of sliding doors combined in one system.

Thanks to the lately developed ES 200 operator, DORMA 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 DORMA ST-ES 200 is the suitable application for your entrance. DORMA ST-ES 200, FST-ES 200, TST-ES 200 and FTST-ES 200 systems not only meet all requirements, they create new standards when it comes to functional range, motion paths, design, stability and heat insulation.

The ES 200 operator technology sets new trends
With ES 200 Easy, ES 200 and ES 200-2D, the ES 200 operator system offers a versatile range of operators for all conditions. Sliding doors in combination with the ES 200 Easy handle all sliding door versions with a door panel weight of 2 x 85 kg. Doors equipped with the ES 200 operator system can deal with door panel weights of 2 x 160 kg and the escape route version of the ES 200-2D has the German type approval for door panel weights of 2 x 130 kg. Passage widths of up to 3000 mm can easily be realised with all versions of the ES 200 operator system.

German type-approved door systems for emergency exits and escape routes
Due to their established Dual Drive Technology (ES 200-2D), DORMA sliding doors provide a convincing application and operational safety for emergency exits and escape routes. All operators are of redundant design and the systems are equipped with an additional control unit for safety purposes and a self-monitoring radar motion detector. Their characteristic is an additional **F** in their name. These systems have the German type approval as "automatic sliding door for installation in escape routes without break-out system".

Economic efficiency is our priority
Thanks to a large variety of standard dimensions, DORMA automatic sliding door operators and telescopic sliding door operators are especially economical application. All door systems may be projected and manufactured in oversize and delivered pre-finished if desired. The professional mounting and commissioning by our qualified DORMA staff complete our service range.

DIN 18650
If desired, we offer our doors with DIN 18650-compliant safety components (sensors) as indicated on page 25. The required safety measures result from the respective risk analysis.

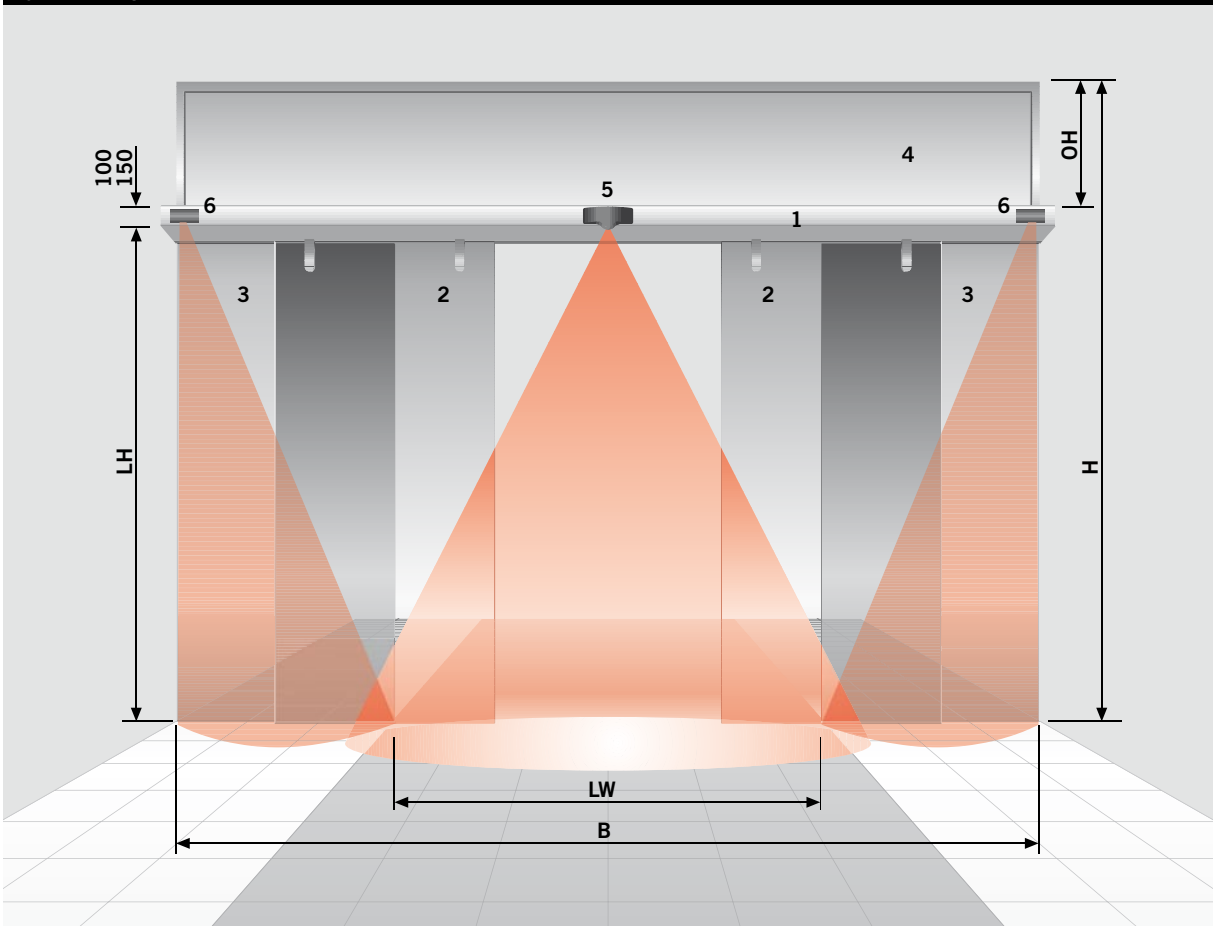
Features and benefits

- 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 radar motion detector
- Excellent cost effectiveness and reliability thanks to established components and a 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

Additional features and benefits of the ES 200-2D operator

- Double-safe **Dual-Drive** operator technology (redundant design)
- Integrated rechargeable battery pack
- Emergency opening following a power failure
- Integrated mechanical manual lock release (optional)
- Minimum operator length = 2 x clear passage width (LW)

System components



1 Unsupported header with track rail, drive unit and control unit
2 Sliding door panel
3 Side screens, stationary (these screens are not required for installation between extending wall faces or similar)
4 Fanlight or solid cover
5 Activator, e.g. radar motion detector
6 DIN 18650, sonsors to monitor secondary closing edges

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

Door parameters	ES 200 Easy	ES 200	ES 200-2D
Single-panel sliding door			
– Clear passage width (LW)*	700 – 3000 mm	700 – 3000 mm	900 – 1800 mm
– Max. door panel weight	1 x 100 kg	1 x 200 kg	1 x 150 kg
Double-panel sliding door			
– Clear passage width (LW)*	800 – 3000 mm	800 – 3000 mm	900 – 3000 mm
– Max. door panel weight	2 x 85 kg	2 x 160 kg	2 x 130 kg
Passage height*	2100 – 3000 mm	2100 – 3000 mm	2100 – 3000 mm

*Further dimensions on demand

Designs	ES 200 Easy	ES 200	ES 200-2D
Profile systems			
– G fine-frame profile	●	●	●
– Full-glass profile with Flex double glazing	●	●	●
– R frame profile	●	●	●
– R-Thermo thermal profile	●	●	●
– MANET single-point fixing max. clear passage width (LW) single-panel = 1600 mm double-panel = 2000 mm	●	●	●
– Full-glass fixing PURE	●	●	
Operator height/depth 100 mm x 180 mm	●	●	●
150 mm x 180 mm	●	●	●

Technical data	ES 200 Easy	ES 200	ES 200-2D
Suitable for application in emergency exits and escape routes	–	–	
Maximum opening and closing force 150 N	●	●	●
Opening speed (adjustable)	10 – 50 cm/s	10 – 75 cm/s	10 – 75 cm/s
Closing speed (adjustable)	10 – 40 cm/s	10 – 50 cm/s	10 – 50 cm/s
Hold-open time	0,5 – 30 s	0 – 180 s	0 – 120 s
Supply voltage / frequency	230 V, 50-60 Hz	230 V, 50-60 Hz	230 V, 50-60 Hz
Power consumption	180 W	250 W	250 W
Class of protection	IP 20	IP 20	IP 20
Compliant with the Low Voltage Directive	●	●	●
Manufactured to ISO 9001:2000	●	●	●

● yes – no

Control unit	ES 200 Easy	ES 200	ES 200-2D
Modular design	–	Basic module (BM)	Basic module (BM)
Microprocessor control	●	●	●
Function programs – Off – Automatic – Permanent Open – Partial Open – Exit Only – Night-/Bank Function	 ● ● ● ● ● ●	 ● ● ● ● ● ●	 ● ● ● ● ● ●
Automatic reversing	●	●	●
Connection for bistable electro-mechanical locking device	●	●	●
Connection for light barriers (max. 2 pairs)	●	●	●
Equipment in accordance with DIN 18650	–	○	○
Setting of basic parameters via integrated display and keys	●	●	●
Parameterisation via PDA	–	●	●
Emergency opening / emergency closing (only with rechargeable battery pack)	● / ●	● / ●	● / – (rechargeable battery pack as standard)
Emergency operation via rechargeable battery pack (only with rechargeable battery pack)	–	●	–
24 V DC-output for external accessories	●	●	●
Read-out error log with error codes	●	●	●
DCW* bus connection	–	●	●

Function module (FM) – optional	ES 200 Easy	ES 200	ES 200-2D
Pharmacy Function	–	●	●
Door status contact (triple-type)	–	●	●
Safeguarding of main closing edge and secondary closing edges	– / –	● / ●	● / –
Panic Closing Function	–	●	–
Bell contact	–	●	●
Airlock Function	–	●	–
Synchronous operation	–	●	●

DIN 18650 function module - optional	ES 200 Easy	ES 200	ES 200-2D
The DIN 18650 function module provides a tested monitoring process for the secondary closing edges for compliance with the German DIN 18650 standard.	–	●	●

Additional equipment	ES 200 Easy	ES 200	ES 200-2D
Electro-mechanical locking device (bistable)	○	○	○
Manual lock release for electro-mechanical locking device	○	○	○
Light barriers	○	○	○
Rechargeable battery pack (Emergency opening / emergency closing)	○	○	● / –
DORMA USV emergency power supply unit (external)	○	○	○
Module for coupling to LON-building control system	–	○	○

● standard ○ optional – not included

*DCW: Log **D**ORMA **C**onnect and **W**ork

Fanlights and static side screens are generally available as accessories.

With G fine-frame profiles

Features

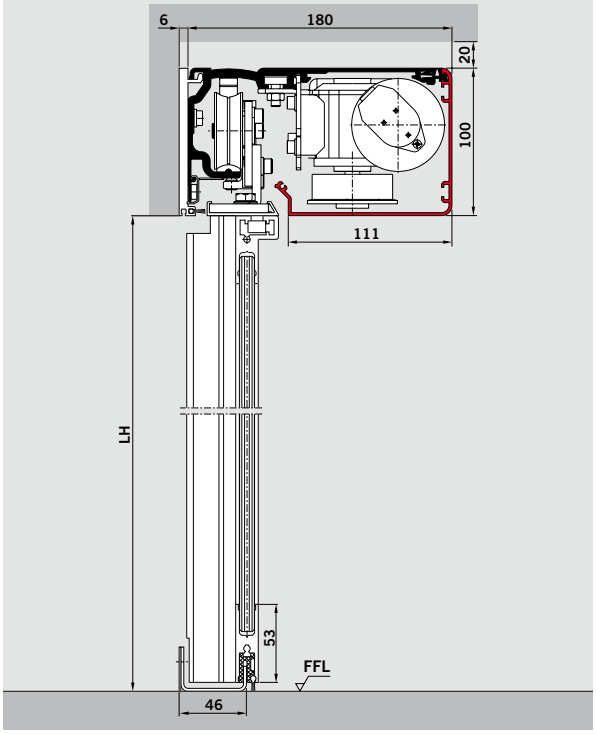
- Elegant fine-frame design
- High stability and torsional rigidity
- Draught protection thanks to lateral seals

LW = clear passage width

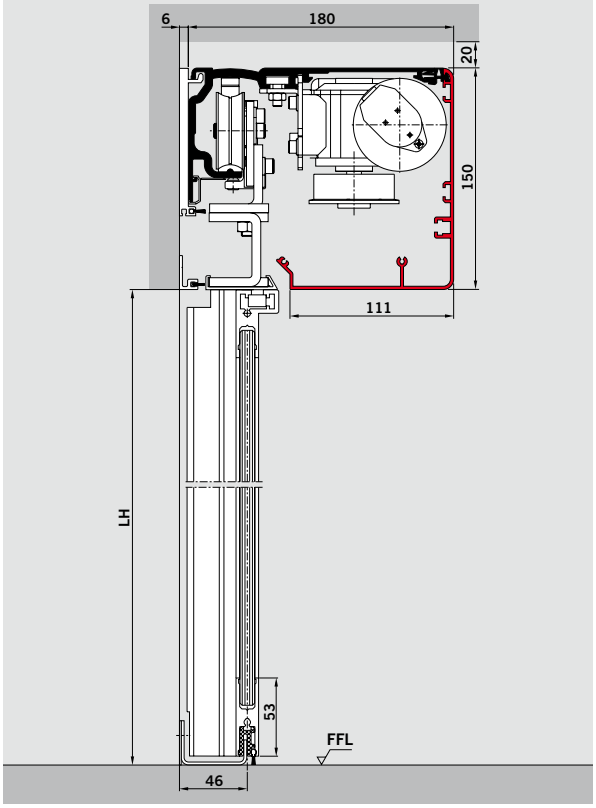
System dimensions and max. door panel weight

Operator	Single-panel System width B	Single-panel max. door panel weight	Double-panel System width B	Double-panel max. door panel weight
ES 200 *Easy*				
without side screens	B = 2 x LW + 35	1 x 100 kg	B = 2 x LW + 70	2 x 85 kg
with side screens	B = 2 x LW + 100		B = 2 x LW + 140	
ES 200				
without side screens	B = 2 x LW + 35	1 x 200 kg	B = 2 x LW + 70	2 x 160 kg
with side screens	B = 2 x LW + 100		B = 2 x LW + 140	
ES 200-2D				
without side screens	B = 2 x LW + 35	1 x 150 kg	B = 2 x LW + 70	2 x 130 kg
with side screens	B = 2 x LW + 100		B = 2 x LW + 140	

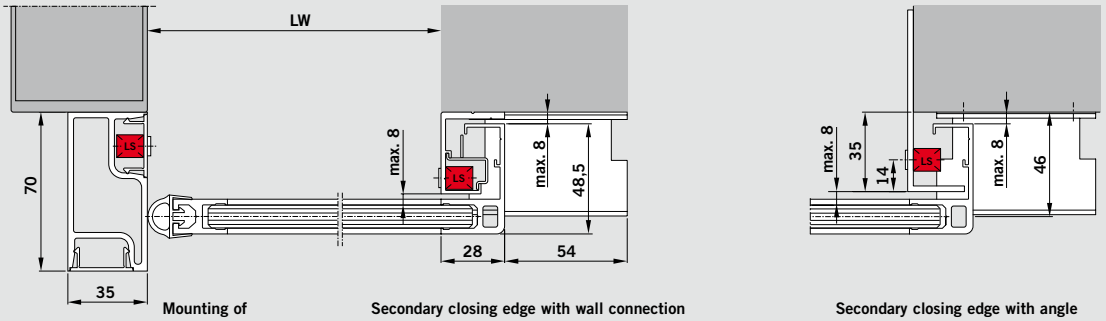
Wall / lintel mounting, operator 100 mm



Wall / lintel mounting, operator 150 mm



Horizontal section of connection profile for door systems that open only to one side



Mounting of single-panel systems

Secondary closing edge with wall connection profile for systems without side screens

Secondary closing edge with angle profile for light barrier fixing

Glass panes

- Toughened safety glass (TSG) 10 mm
- Laminated safety glass 9.6 mm made of toughened safety glass
- Special glazing

Safety screen

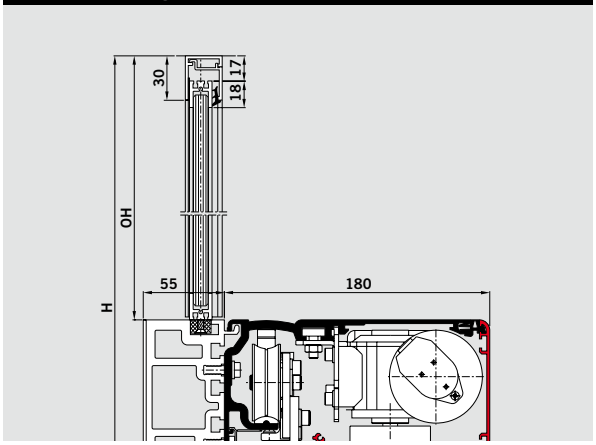
See page 26 for safety screen

Clear passage height (LH)

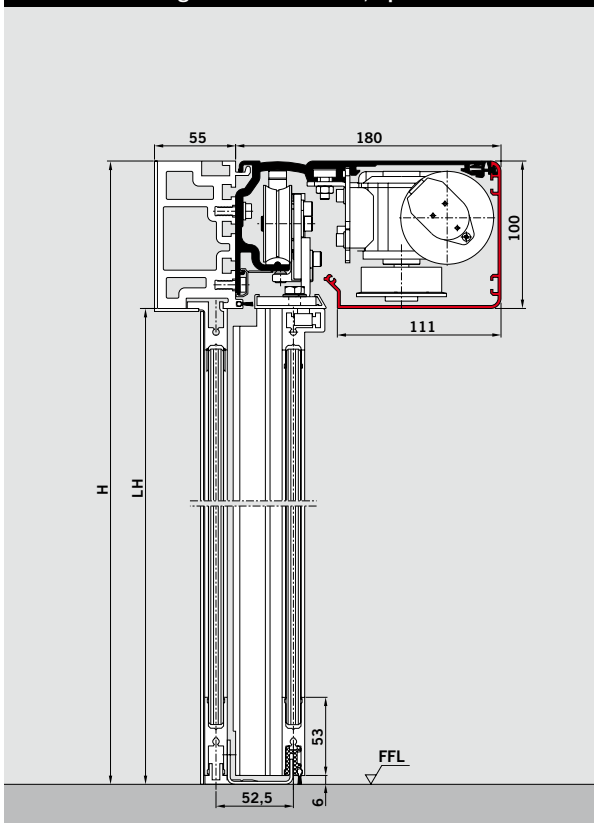
Determination of clear passage height LH (mm) depending on the clear passage width LW (mm) and the glazing:

see diagrams on page 28/29

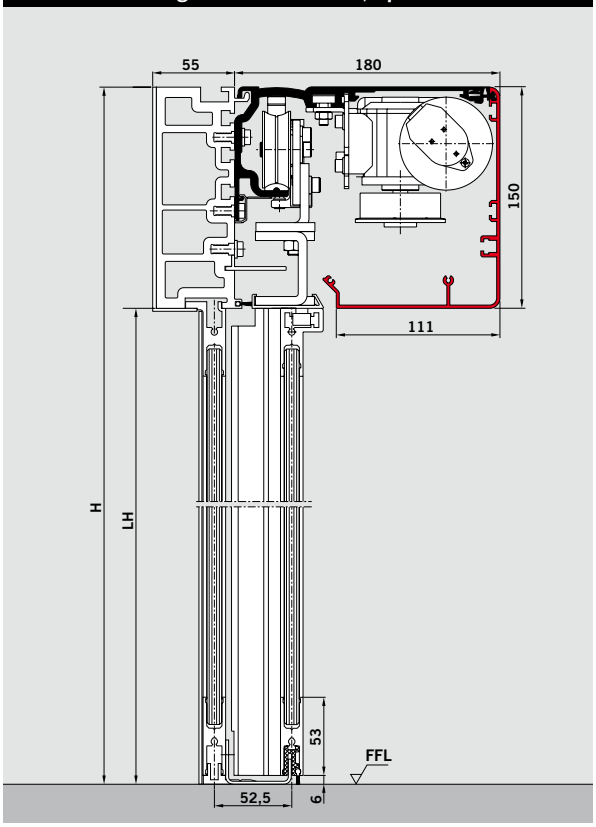
ST-G with fanlight



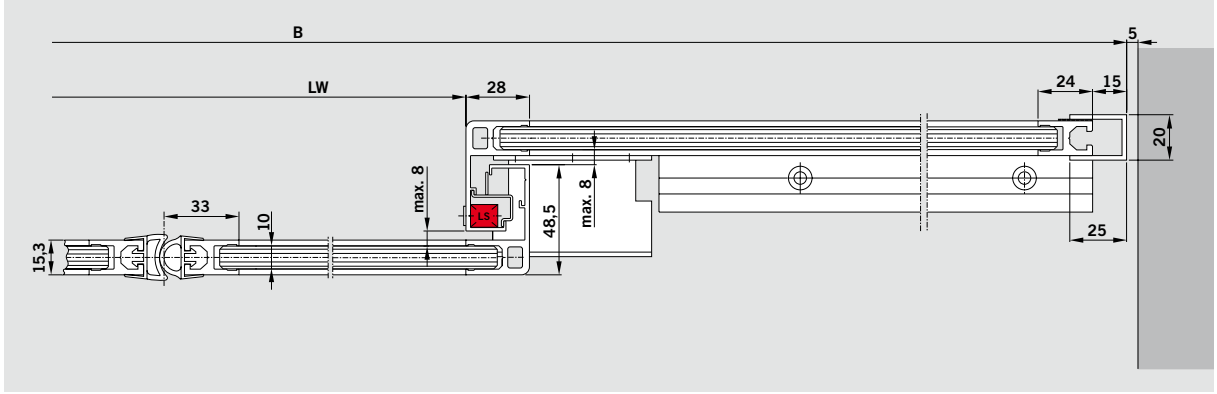
Corridor mounting with side screens, operator 100 mm



Corridor mounting with side screens, operator 150 mm



Horizontal section with side screens



With FLEX fine-frame profiles

Features

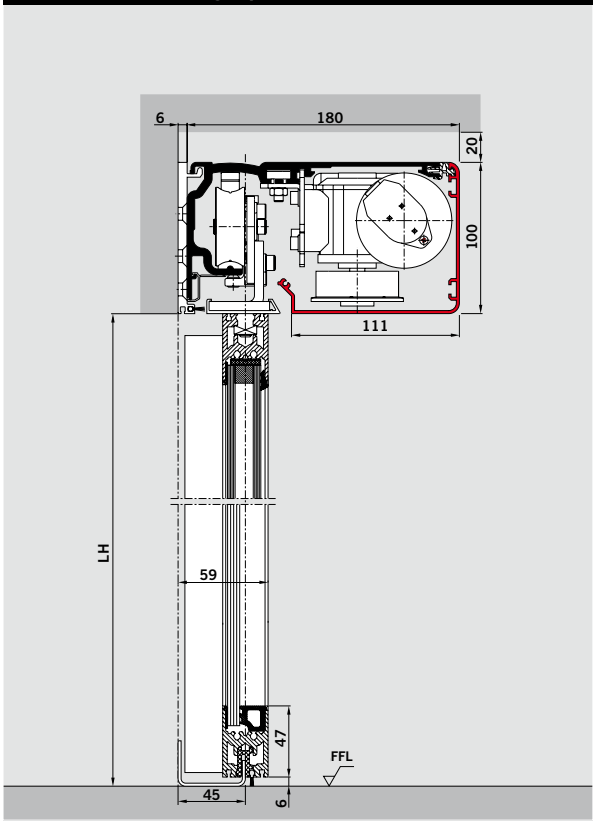
- Attractive glass surfaces thanks to slender frames
- High stability and torsional rigidity
- Low damping behaviour (k-value) of frame due to double-glazing
- Excellent insulation features thanks to interlocking side seals and top and bottom seals

LW = Clear passage width

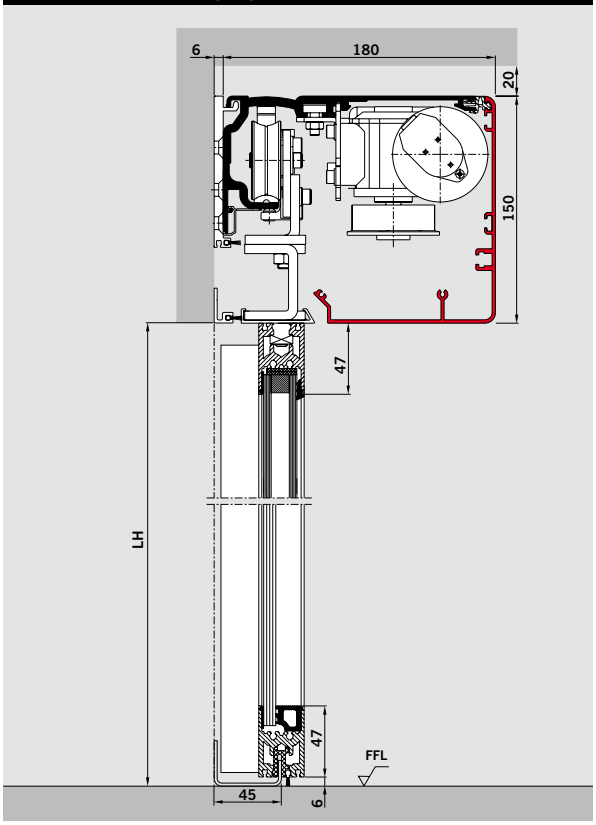
System dimensions and max. door panel weight

	Single-panel		Double-panel	
Operator	System width B	max. door panel weight	System width B	max. door panel weight
ES 200 *Easy*				
without side screens	B = 2 x LW + 50	1 x 100 kg	B = 2 x LW + 100	2 x 85 kg
with side screens	B = 2 x LW + 100		B = 2 x LW + 180	
ES 200				
without side screens	B = 2 x LW + 50	1 x 200 kg	B = 2 x LW + 100	2 x 160 kg
with side screens	B = 2 x LW + 100		B = 2 x LW + 180	
ES 200-2D				
without side screens	B = 2 x LW + 50	1 x 150 kg	B = 2 x LW + 100	2 x 130 kg
with side screens	B = 2 x LW + 100		B = 2 x LW + 180	

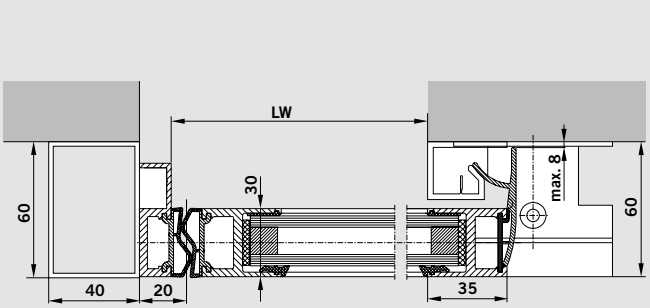
Wall / lintel mounting, operator 100 mm



Wall / lintel mounting, operator 150 mm

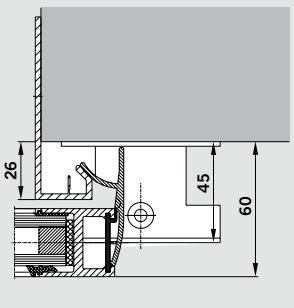


Horizontal section of connection profile for door systems that open only to one side



Mounting of single-panel systems

Secondary closing edge with wall connection profile for systems without side screens



Secondary closing edge with angle profile for light barrier fixing

Glass panes

- Toughened safety glass
- Laminated safety glass 8
- ISO 22 (4/14/4)
- Special glazing

Clear passage height (LH)

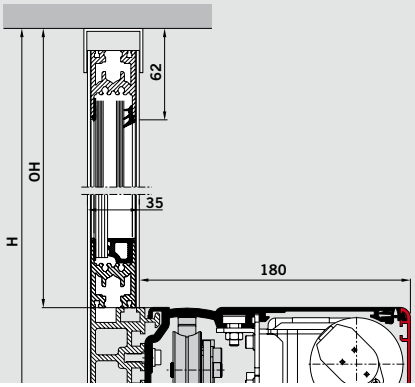
Determination of clear passage height LH (mm) depending on the clear passage width LW (mm) and the glazing:

see diagrams on page 28/29

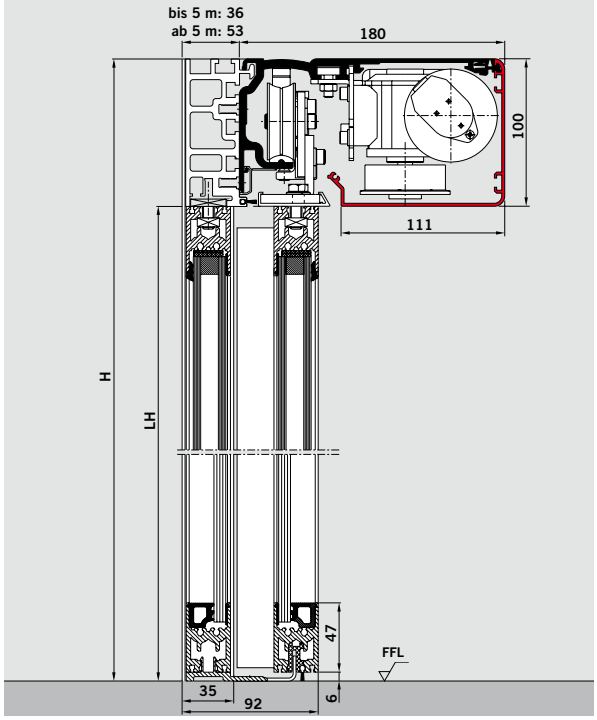
Safety screen

See page 27 for safety screen with ISO glazing (double-glazing).

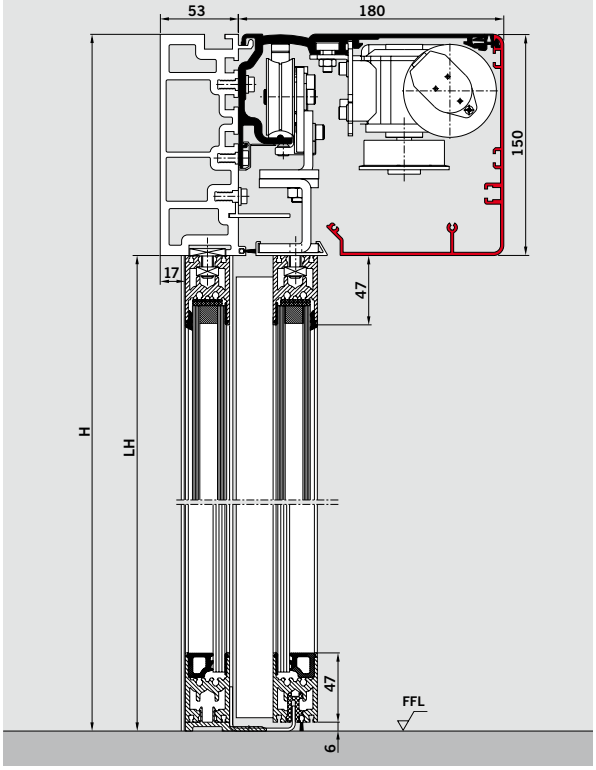
ST-Flex with fanlight



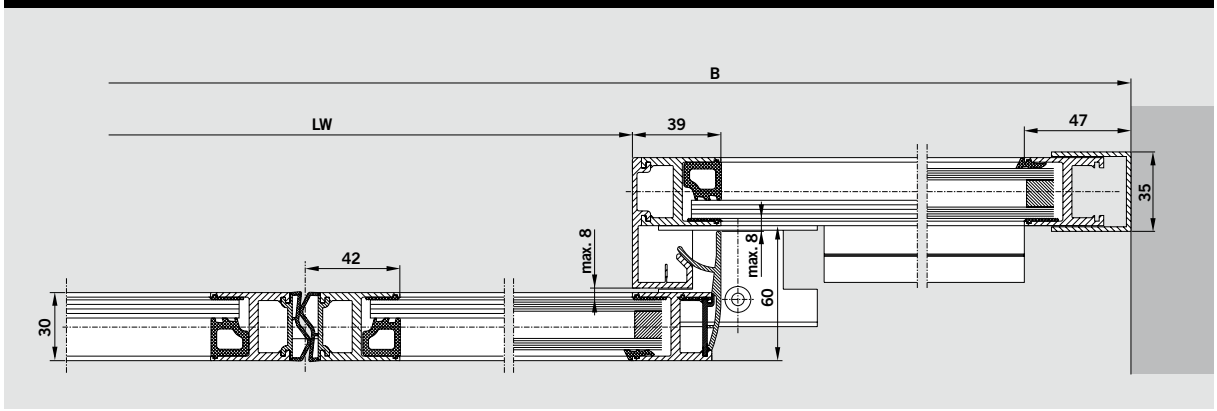
Corridor mounting with side screens, operator 100 mm



Corridor mounting with side screens, operator 150 mm



Horizontal section with side screen



With R frame profiles

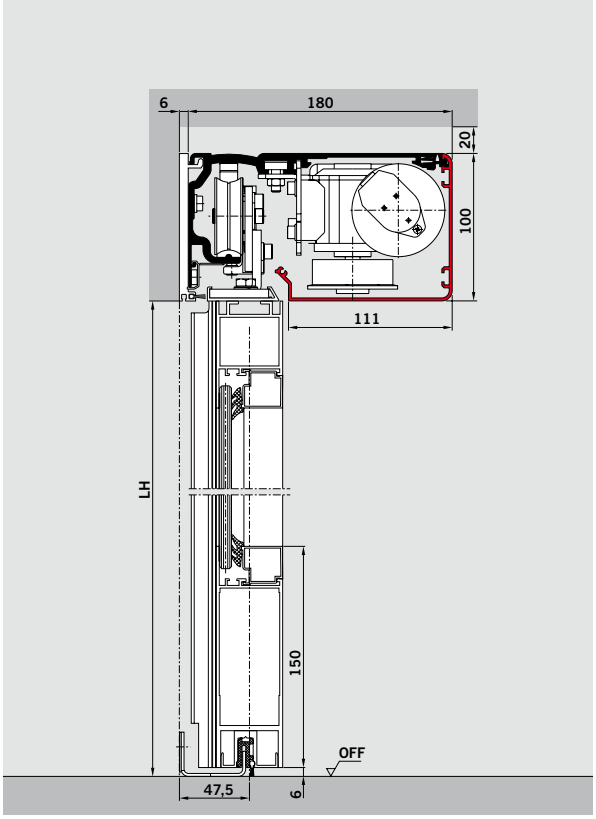
Features

- Robust and reliable frames to protect the panes
- High stability and torsional rigidity
- Draught protection thanks to interlocking side seals

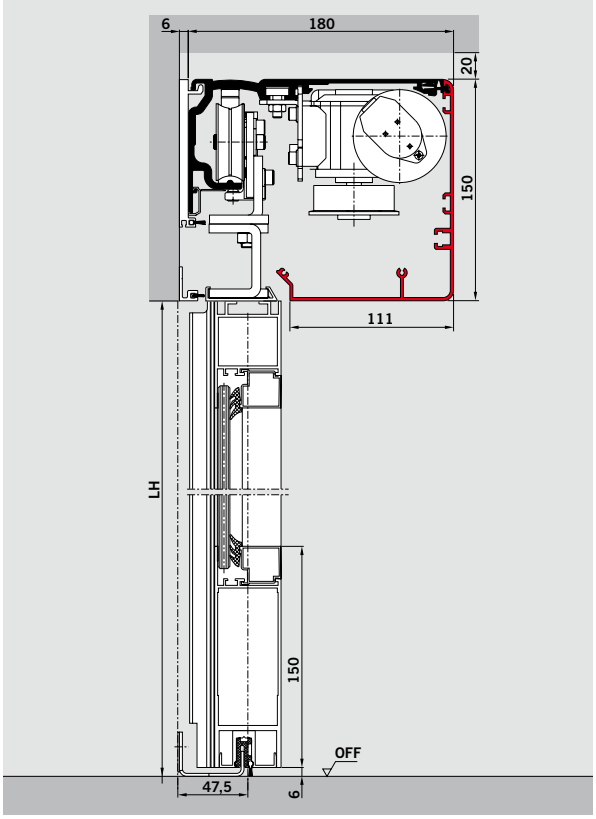
System dimensions and max. door panel weight

Operator	Single-panel System width B	Single-panel max. door panel weight	Double-panel System width B	Double-panel max. door panel weight
ES 200 *Easy*				
without side screens	B = 2 x LW + 75	1 x 100 kg	B = 2 x LW + 150	2 x 85 kg
with side screens	B = 2 x LW + 110		B = 2 x LW + 230	
ES 200				
without side screens	B = 2 x LW + 75	1 x 200 kg	B = 2 x LW + 150	2 x 160 kg
with side screens	B = 2 x LW + 110		B = 2 x LW + 230	
ES 200-2D				
without side screens	B = 2 x LW + 75	1 x 150 kg	B = 2 x LW + 150	2 x 130 kg
with side screens	B = 2 x LW + 110		B = 2 x LW + 230	

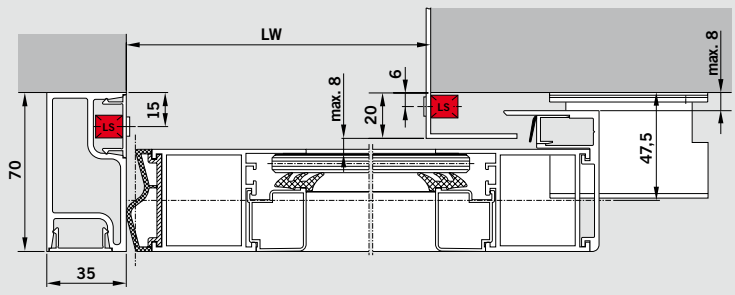
Wall / lintel mounting, operator 100 mm



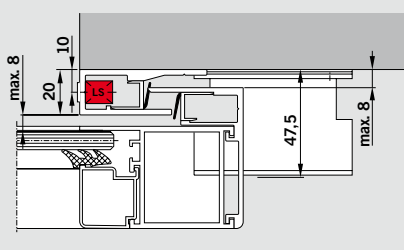
Wall / lintel mounting, operator 150 mm



Horizontal section of connection profile for door systems that open only to one side



Dead stop for single-panel systems



Secondary closing edge with U-section profile

Secondary closing edge with angle profile for light barrier fixing

Glass panes

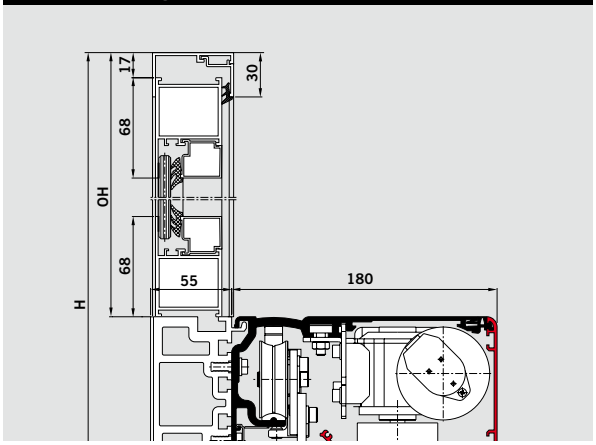
– Toughened safety glass (TSG) 6 mm	■
– Toughened safety glass (TSG) 8 mm	■
– Toughened safety glass (TSG) 10 mm	■
– Laminated safety glass (LSG) 6 mm	○
– Laminated safety glass (LSG) 8 mm	○
– Laminated safety glass (LSG) 9 mm, A1	○
– Laminated safety glass (LSG) 10 mm	○
– ISO glazing (double-glazing) 5/14/5 mm	■
– ISO glazing (double-glazing) 6/12/6 mm	■

■ alternatively ○ optional

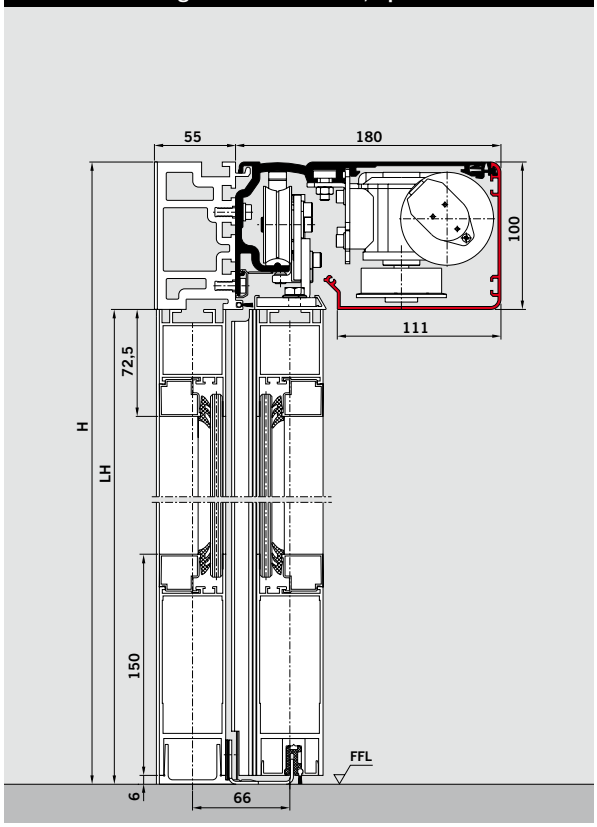
Clear passage height (LH)

Determination of clear passage height LH (mm) depending on the clear passage width LW (mm) and the glazing:
see diagrams on page 28/29

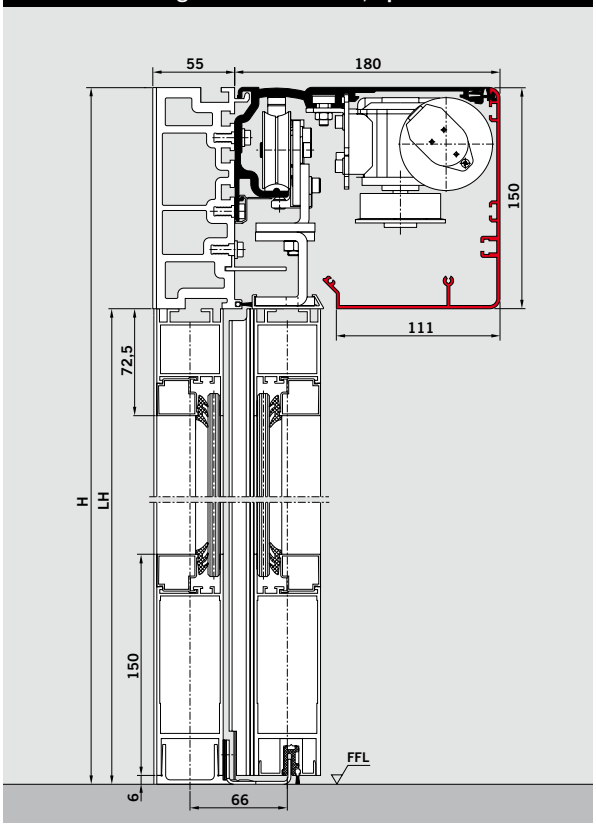
ST-R with fanlight



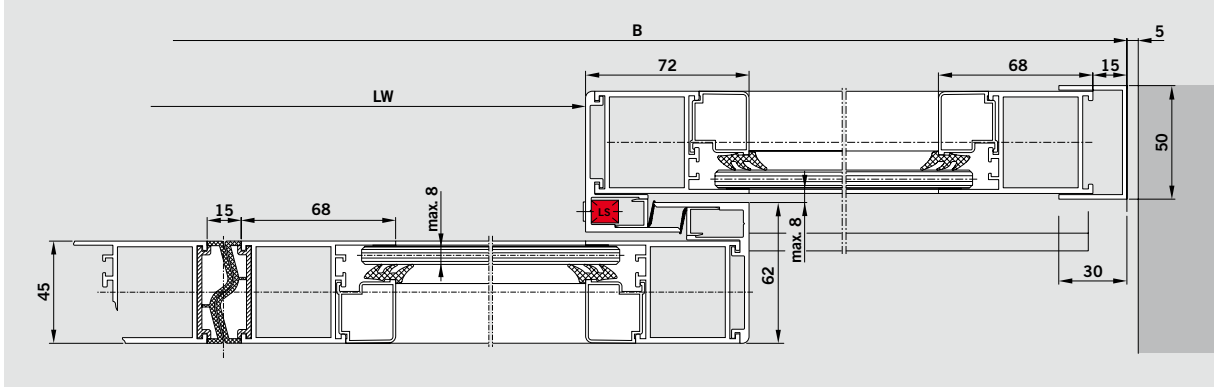
Corridor mounting with side screens, operator 100 mm



Corridor mounting with side screens, operator 150 mm



Horizontal section with side screen



With R-Thermo thermo profiles

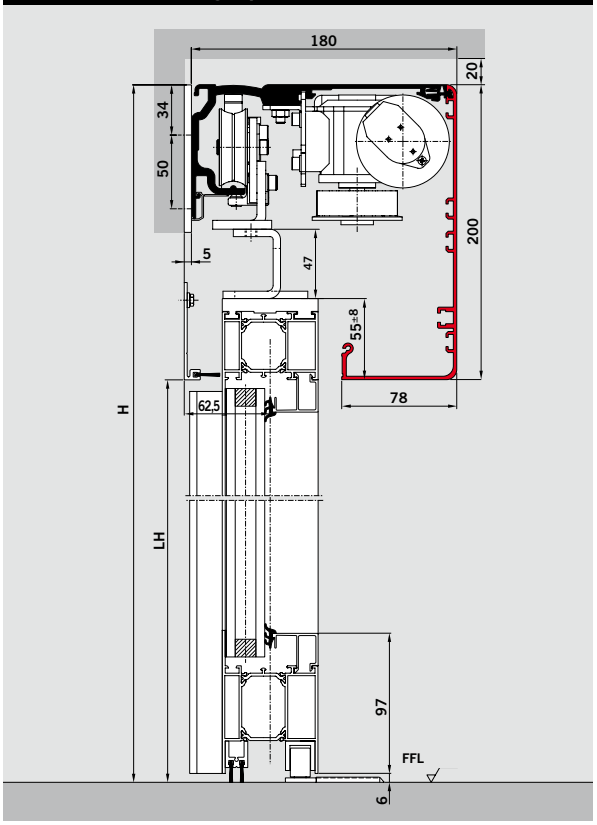
Features

- Robust and reliable frames to protect the glass panes
- High stability and torsional rigidity
- Draught protection thanks to interlocking side seals

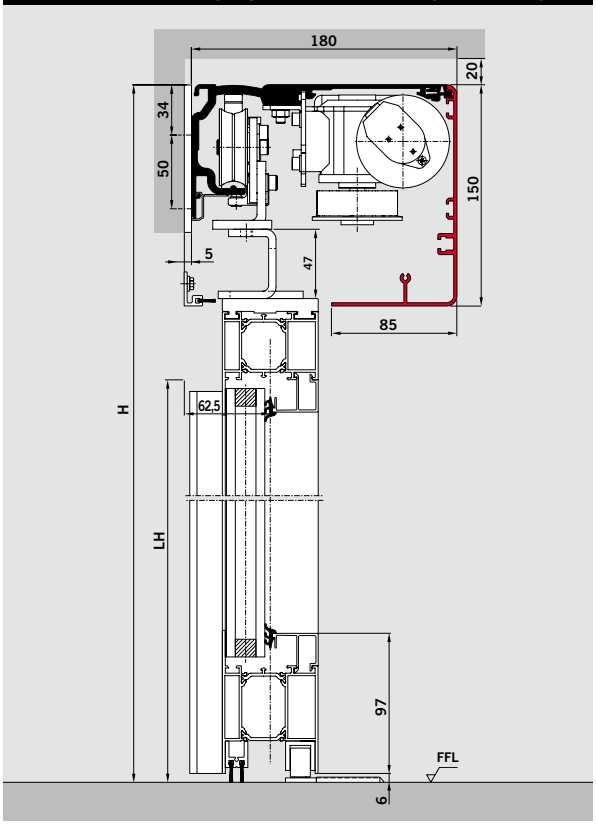
System dimensions and max. door panel weight

	Single-panel		Double-panel	
Operator	System width B	max. door panel weight	System width B	max. door panel weight
ES 200 *Easy*				
without side screens	B = 2 x LW + 90	1 x 100 kg	B = 2 x LW + 180	2 x 85 kg
with side screens	B = 2 x LW + 130		B = 2 x LW + 260	
ES 200				
without side screens	B = 2 x LW + 90	1 x 200 kg	B = 2 x LW + 180	2 x 160 kg
with side screens	B = 2 x LW + 130		B = 2 x LW + 260	
ES 200-2D				
without side screens	B = 2 x LW + 90	1 x 150 kg	B = 2 x LW + 180	2 x 130 kg
with side screens	B = 2 x LW + 130		B = 2 x LW + 260	

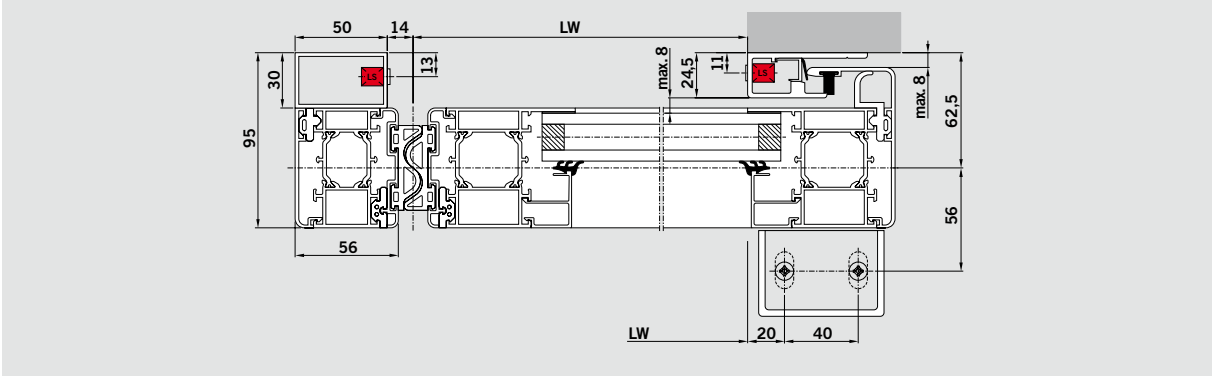
Wall / lintel mounting, operator 200 mm



Wall / lintel mounting, operator 150 mm (special design)



Horizontal section of connection profile for door systems that open only to one side



Glass panes

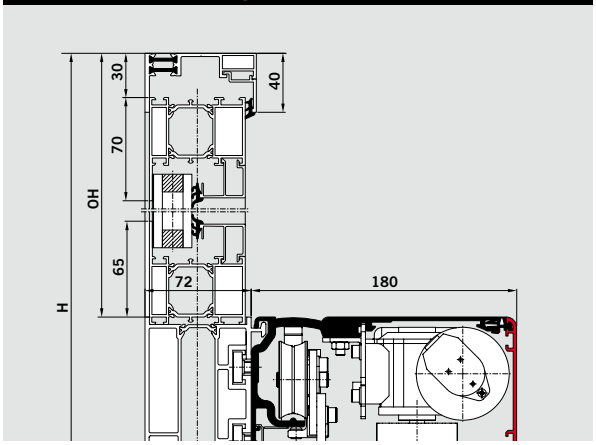
- ISO glazing (double-glazing) 5/14/5 mm
- ISO glazing (double-glazing) 6/12/6 mm
- Special glazing

Clear passage height (LH)

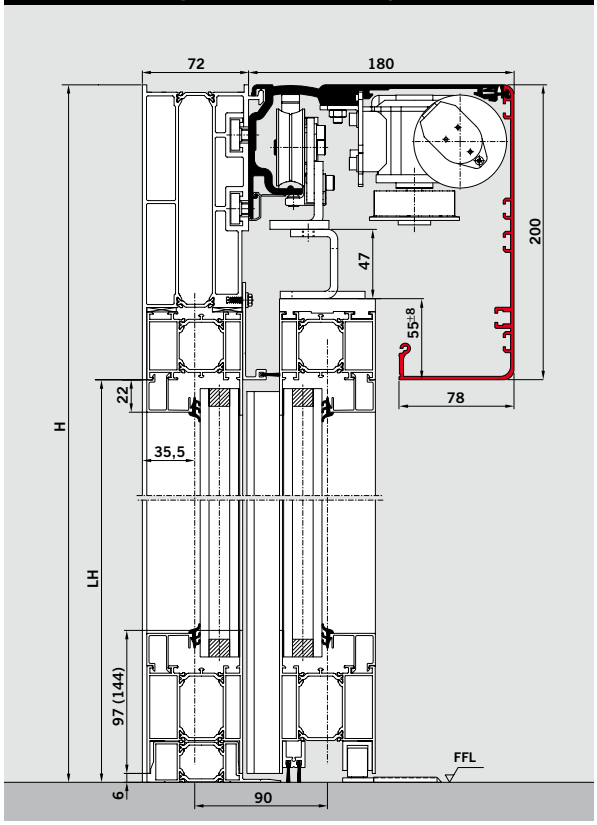
Determination of clear passage height LH (mm) depending on the clear passage width LW (mm) and the glazing:

see diagrams on page 28/29

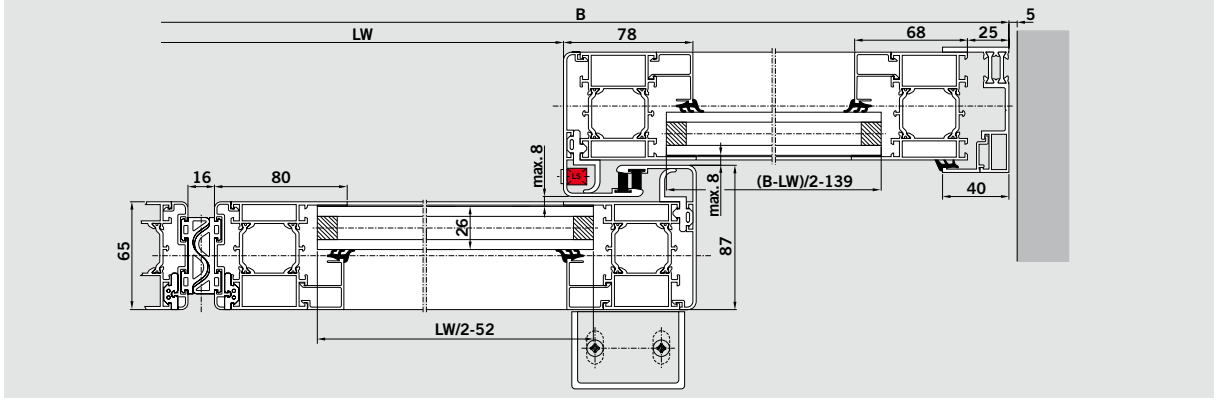
ST-R/Thermo with fanlight



Corridor mounting with side screens, operator 200 mm



Horizontal section with side screens



With MANET single-point fixings for all-glass doors

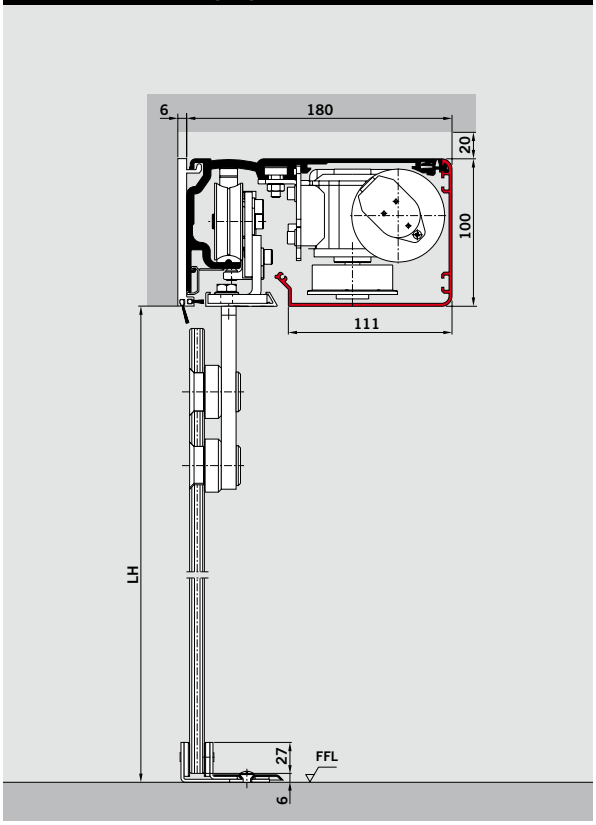
Features

- For interior doors
- Agravic-like design thanks to unobtrusive stainless steel single-point fixings
- Complete range of suitable components, which allow to connect glazing elements in any way to walls, floors and ceilings and to interconnect them

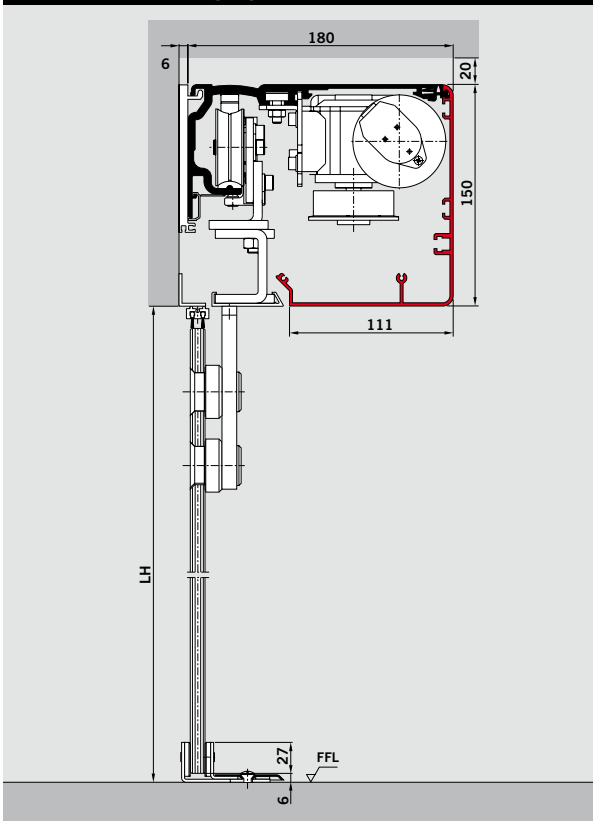
System dimensions and max. door panel weight

	Single-panel		Double-panel	
Operator	System width B	max. door panel weight	System width B	max. door panel weight
ES 200 *Easy*				
without side screens	B = 2 x LW + 70	1 x 100 kg	B = 2 x LW + 140	2 x 85 kg
with side screens	B = 2 x LW + 100		B = 2 x LW + 140	
ES 200				
without side screens	B = 2 x LW + 70	1 x 200 kg	B = 2 x LW + 140	2 x 160 kg
with side screens	B = 2 x LW + 100		B = 2 x LW + 140	
ES 200-2D				
without side screens	B = 2 x LW + 70	1 x 150 kg	B = 2 x LW + 140	2 x 130 kg
with side screens	B = 2 x LW + 100		B = 2 x LW + 140	

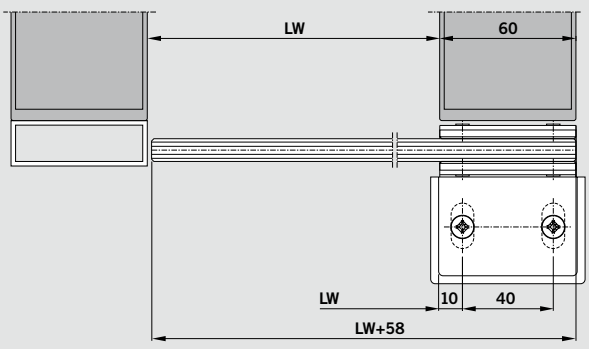
Wall / lintel mounting, operator 100 mm



Wall / lintel mounting, operator 150 mm



Horizontal section of connection profile for door systems that open only to one side



Glass panes

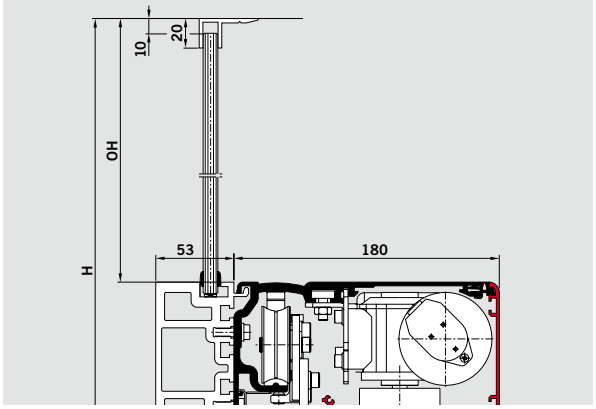
– Toughened safety glass (TSG) 10 mm
– Special glazing

Clear passage height (LH)

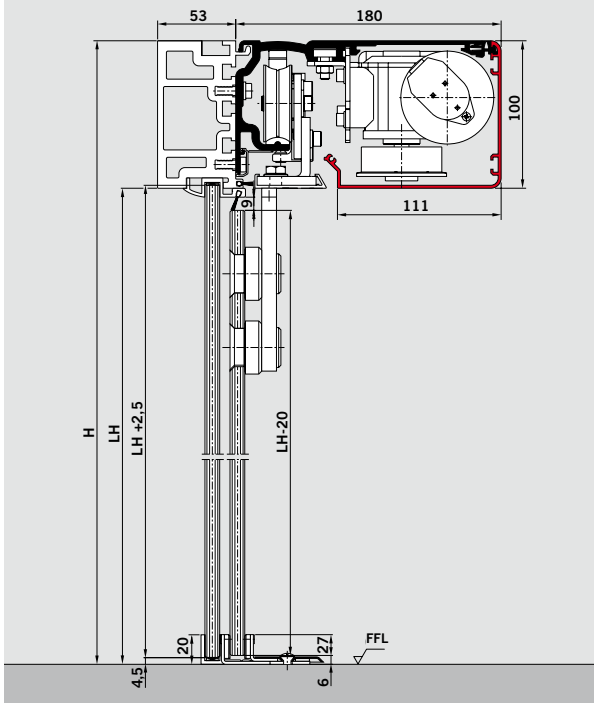
Determination of clear passage height LH (mm) depending on the clear passage width LW (mm) and the glazing: see diagrams on page 28/29.

Please consider the limited opening dimensions on application of MANET single-point fixings:
Single-panel max. clear passage width (LW) = 1600 mm, clear passage height (LH) = 2500 mm
Double-panel max. clear passage width (LW) = 2000 mm, clear passage height (LH) = 2500 mm.

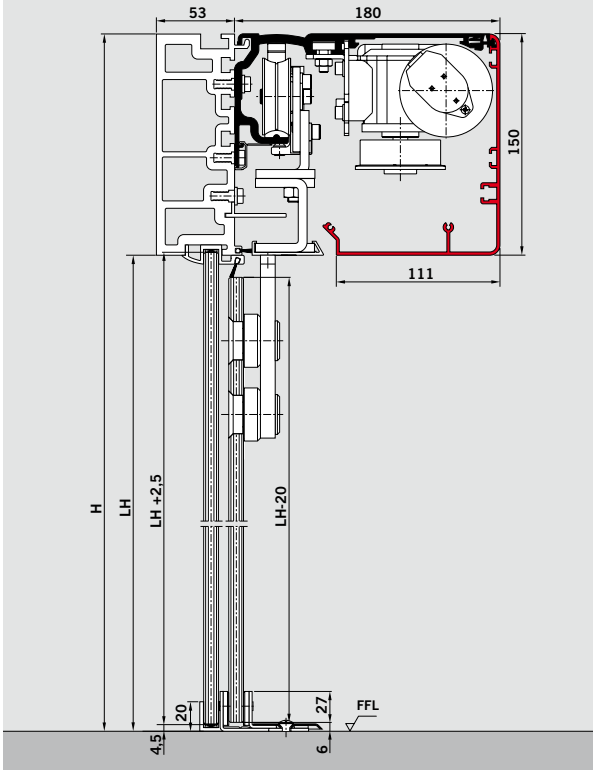
ST-MANET with fanlight



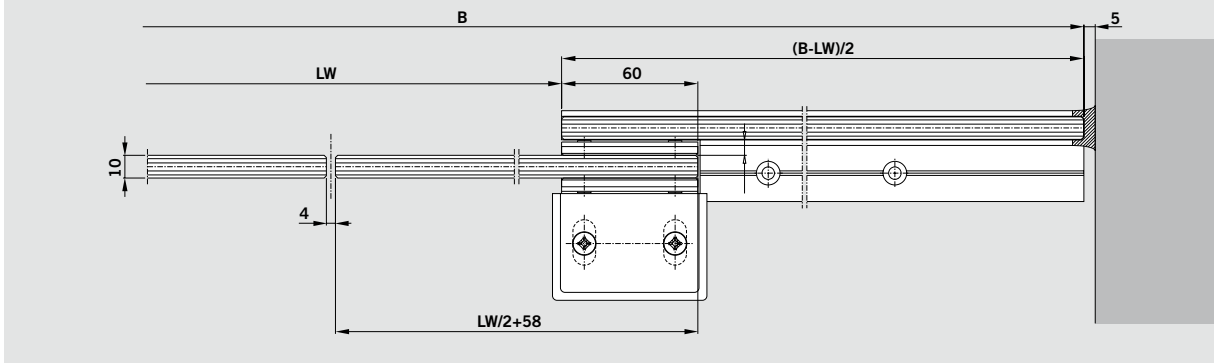
Corridor mounting with side screens, operator 100 mm



Corridor mounting with side screens, operator 150 mm



Horizontal section with side screens



With PURE single-point fixings for full-glass systems

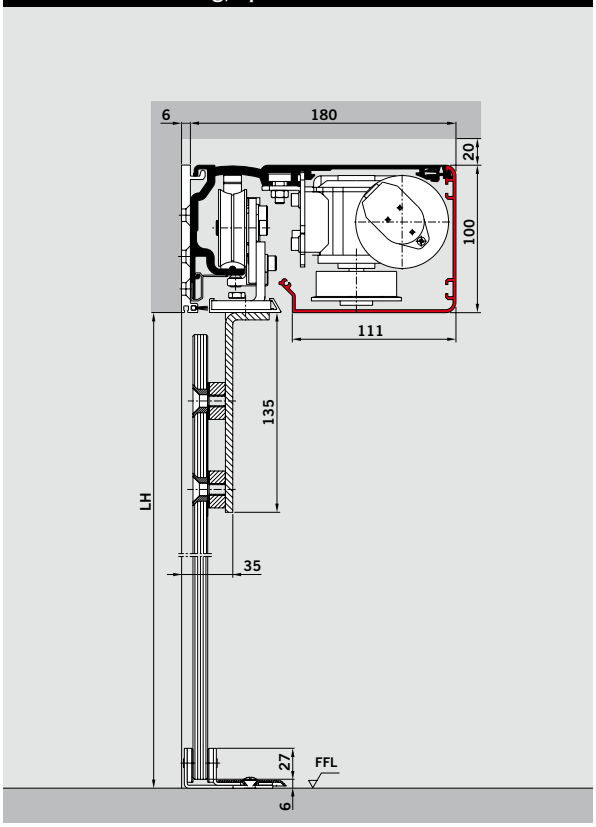
Features

- For interior doors
- Agravic-like design thanks to unobtrusive single-point fixings

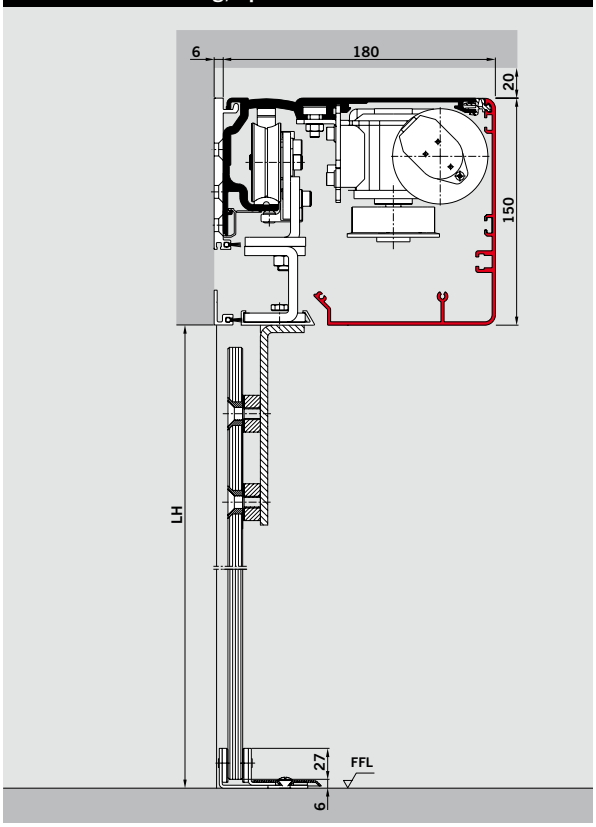
System dimensions and max. door panel weight

Operator	Single-panel (LW max. 1600) System width B	Single-panel (LW max. 1600) max. door panel weight	Double-panel (LW max. 2000) System width B	Double-panel (LW max. 2000) max. door panel weight
ES 200 *Easy*				
without side screens	B = 2 x LW + 70	1 x 100 kg	B = 2 x LW + 140	2 x 85 kg
with side screens	B = 2 x LW + 100		B = 2 x LW + 140	
ES 200				
without side screens	B = 2 x LW + 70	1 x 100 kg	B = 2 x LW + 140	2 x 100 kg
with side screens	B = 2 x LW + 100		B = 2 x LW + 140	
ES 200-2D				
without side screens	B = 2 x LW + 70	1 x 100 kg	B = 2 x LW + 140	2 x 100 kg
with side screens	B = 2 x LW + 100		B = 2 x LW + 140	

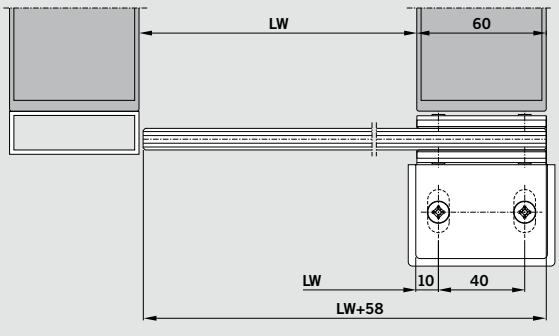
Wall / lintel mounting, operator 100 mm



Wall / lintel mounting, operator 150 mm



Horizontal section of connection profile for door systems that open only to one side



Glass panes

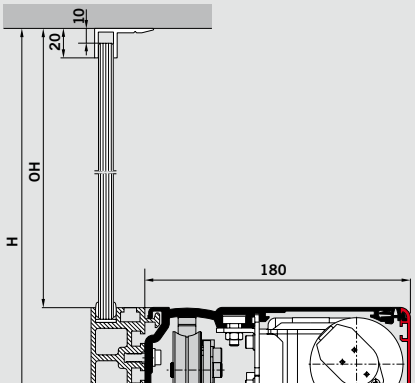
– Toughened safety glass (TSG) 10 mm
– Special glazing

Clear passage height (LH)

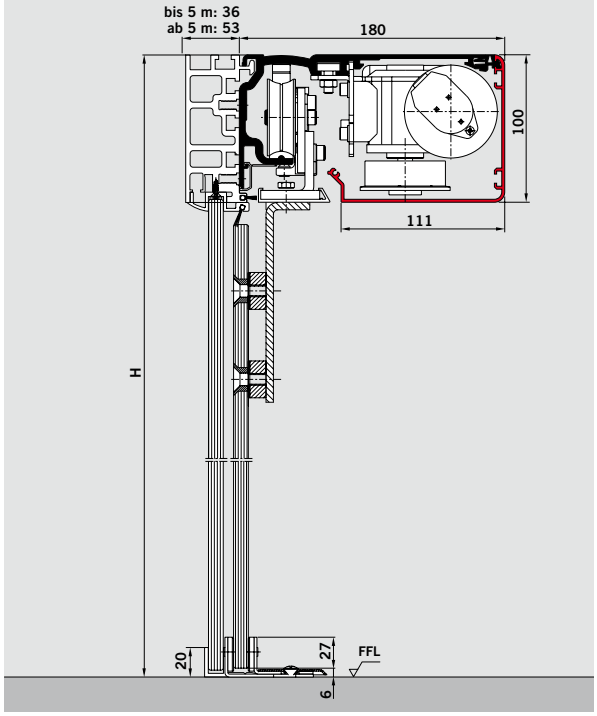
Determination of clear passage height LH (mm) depending on the clear passage width LW (mm) and the glazing: see diagrams on page 28/29.

Please consider the limited opening dimensions on application of ingle-point fixings for full-glass systems:
Single-panel max. clear passage width (LW) = 1200 mm, clear passage height (LH) = 2500 mm
Double-panel max. clear passage width (LW) = 2000 mm, clear passage height (LH) = 2500 mm.

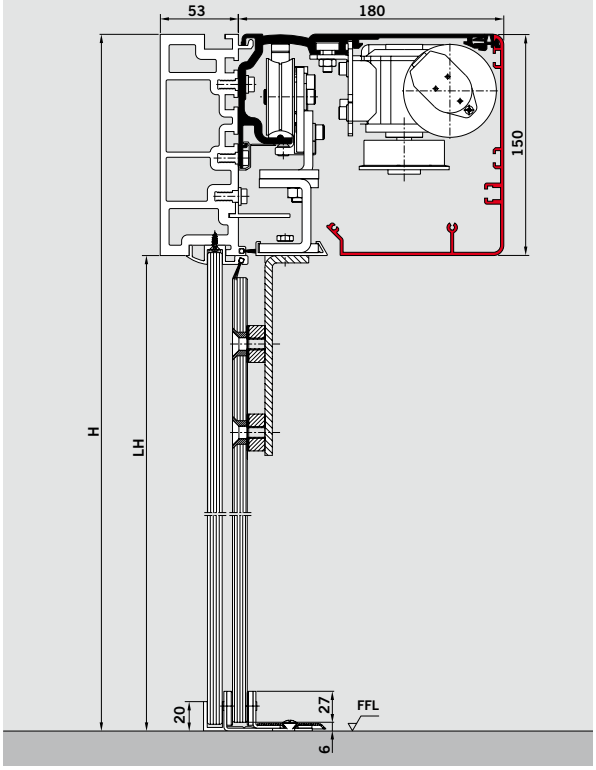
ST all-glass with fanlight



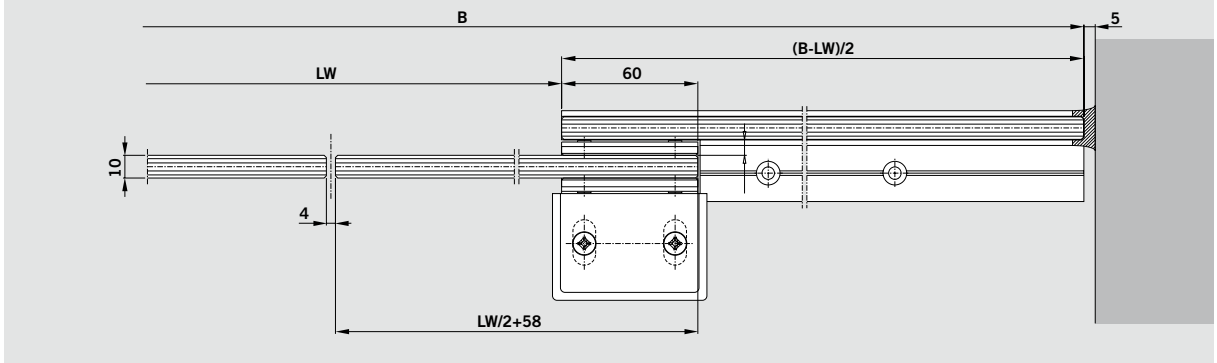
Corridor mounting with side screens, operator 100 mm



Corridor mounting with side screens, operator 150 mm



Horizontal section with side screen



Door parameter	ES 200 T Easy	ES 200 T	ES 200 T-2D
Double-panel sliding door, opening to one side			
– Clear passage width LW*	800 – 2400 mm	800 – 2400 mm	1000 – 2400 mm
– max. door panel weight	2 x 50 kg	2 x 75 kg	2 x 65 kg
4-panel sliding door, opening to both sides			
– Clear passage width LW*	1400 – 4000 mm	1400 – 4000 mm	1400 – 4000 mm
– max. door panel weight	4 x 43 kg	4 x 75 kg	4 x 65 kg
Passage width*	2100 – 3000 mm	2100 – 3000 mm	2100 – 3000 mm

*Further dimensions on demand

Designs	ES 200 T Easy	ES 200 T	ES 200 T-2D
Profile systems	●	●	●
G fine-frame profile	●	●	●
FLEX fine-frame profile	●	●	●
Full-glass profile with G-ISO double-glazing	●	●	●
Frame profile R	●	●	●
Elevation height and depth of operator			
100 mm x 180 mm	●	●	●
150 mm x 180 mm	●	●	●
Floor-integrated floor guide rail	●	●	●
Surface-mounted installation without floor guide rail (consider wind load and burglary control)	○	○	○

Technical data	ES 200 T Easy	ES 200 T	ES 200 T-2D
Suitable for application in emergency exits and escape routes	–	–	
Maximum opening and closing force 150 N	●	●	●
Opening speed (adjustable)	10 – 50 cm/s	10 – 75 cm/s	10 – 75 cm/s
Closing speed (adjustable)	10 – 40 cm/s	10 – 50 cm/s	10 – 50 cm/s
Hold-open time	0,5 – 30 s	0 – 180 s	0 – 180 s
Power supply / frequency	230 V, 50-60 Hz	230 V, 50-60 Hz	230 V, 50-60 Hz
Power consumption	180 W	250 W	250 W
Class of protection	IP 20	IP 20	IP 20
Compliant with the Low Voltage Directive	●	●	●
Manufactured to ISO 9001:2000	●	●	●

● yes ○ optional – no

Control unit	ES 200 T Easy	ES 200 T	ES 200 T-2D
Modular design	–	Basic module (BM)	Basic module (BM)
Microprocessor control	●	●	●
Function programs – Off – Automatic – Permanent Open – Partial Open – Exit Only – Night-/Bank Function	 ● ● ● ● ● ●	 ● ● ● ● ● ●	 ● ● ● ● ● ●
Automatic reversing	●	●	●
Connection for bistable electro-mechanical locking device	●	●	●
Connection for light barriers (max. 2 pairs)	●	●	●
Setting of basic parameters via integrated display and keys	●	●	●
Parameterisation via PDA	–	●	●
Emergency opening / emergency closing (on application of rechargeable battery pack)	● / ●	● / ●	● / – (rechargeable battery pack as standard)
Emergency operation via rechargeable battery pack (on application of rechargeable battery pack)	–	●	–
24 V DC output for external accessories	●	●	●
Read-out error log with error codes	●	●	●
DCW*-bus connection	–	●	●

Function module (FM) – optional	ES 200 T Easy	ES 200 T	ES 200 T-2D
Pharmacy Function	–	●	●
Door status contact (triple)	–	●	●
Safeguarding of main closing edge and secondary closing edges	– / –	● / ●	● / –
Panic Closing Function (Abide by prevailing regulations!)	–	●	●
Bell contact	–	●	●
Airlock Function	–	●	–
Synchronous operation	–	●	●

DIN 18650 function module - optional	ES 200 T Easy	ES 200 T	ES 200 T-2D
The DIN 18650 function module provides a tested monitoring process for the secondary closing edges for compliance with the German DIN 18650 standard.	–	●	●

Additional equipment	ES 200 T Easy	ES 200 T	ES 200 T-2D
Electro-mechanical locking device (bistable)	○	○	○
Manual lock release for electro-mechanical locking device	○	○	○
Light barriers	○	○	○
Rechargeable battery pack (Emergency opening function / emergency closing function)	○	○	● / –
DORMA USV emergency power supply unit (external)	○	○	○
Module for coupling to LON building control system	–	○	○

● standard ○ optional – not included

*DCW: Log **D**ORMA **C**onnect and **W**ork

Fanlights and static side screens are generally available as accessories.

With G fine-frame profiles

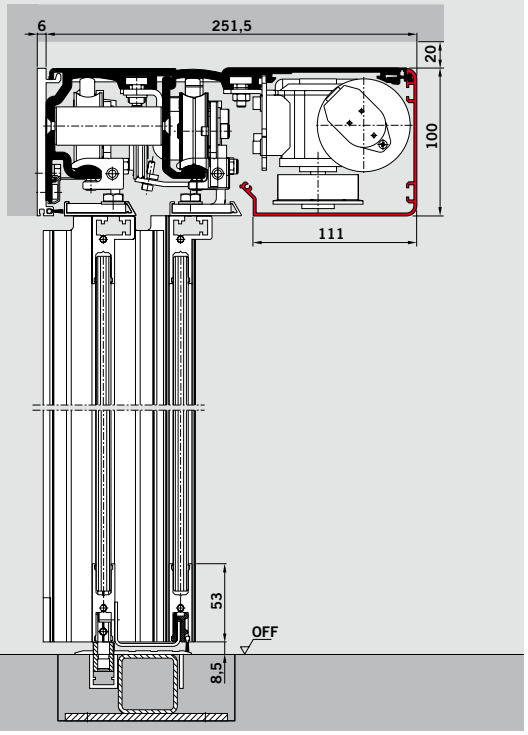
Features

- Elegant fine-frame design
- High stability and torsional rigidity
- Draught protection thanks to side seals

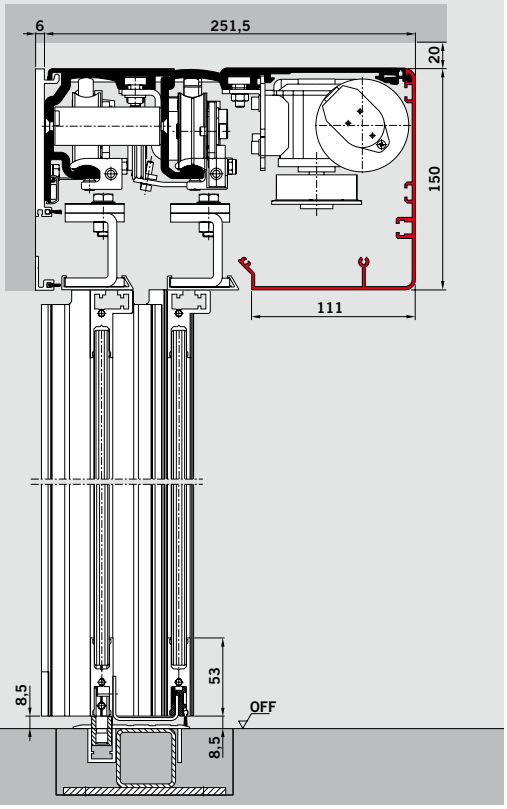
System dimensions and max. door panel weight

Operator	Single-panel System width B	Single-panel max. door panel weight	Double-panel System width B	Double-panel max. door panel weight
ES 200 T *Easy*				
without side screens	B = 1,5 x LW + 100	2 x 50 kg	B = 1,5 x LW + 100	4 x 43 kg
with side screens	B = 1,5 x LW + 140	2 x 50 kg	B = 1,5 x LW + 140	4 x 43 kg
ES 200-T				
without side screens	B = 1,5 x LW + 100	2 x 75 kg	B = 1,5 x LW + 100	4 x 75 kg
with side screens	B = 1,5 x LW + 140	2 x 75 kg	B = 1,5 x LW + 140	4 x 75 kg
ES 200-T-2D				
without side screens	B = 1,5 x LW + 100	2 x 65 kg	B = 1,5 x LW + 100	4 x 65 kg
with side screens	B = 1,5 x LW + 140	2 x 65 kg	B = 1,5 x LW + 140	4 x 65 kg

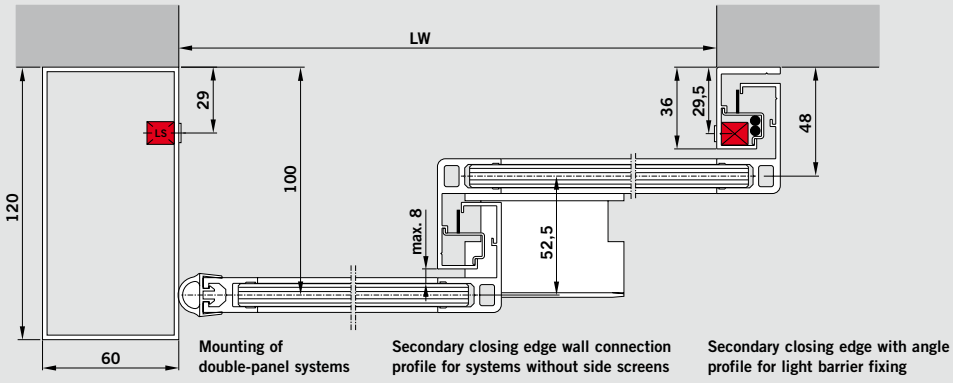
Wall / lintel mounting, operator 100 mm



Wall / lintel mounting, operator 150 mm



Horizontal section of connection profile for door systems that open only to one side



Mounting of double-panel systems

Secondary closing edge wall connection profile for systems without side screens

Secondary closing edge with angle profile for light barrier fixing

Glass panes

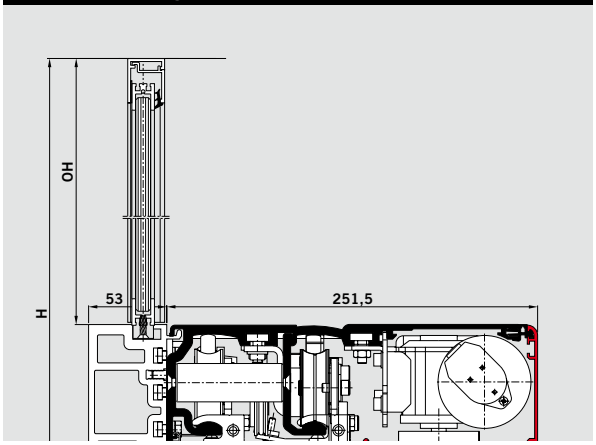
- Toughened safety (TSG) 10 mm
- Laminated safety glass (LSG) 9.6 mm made of toughened safety glass (TSG)
- Special glazing

Clear passage height (LH)

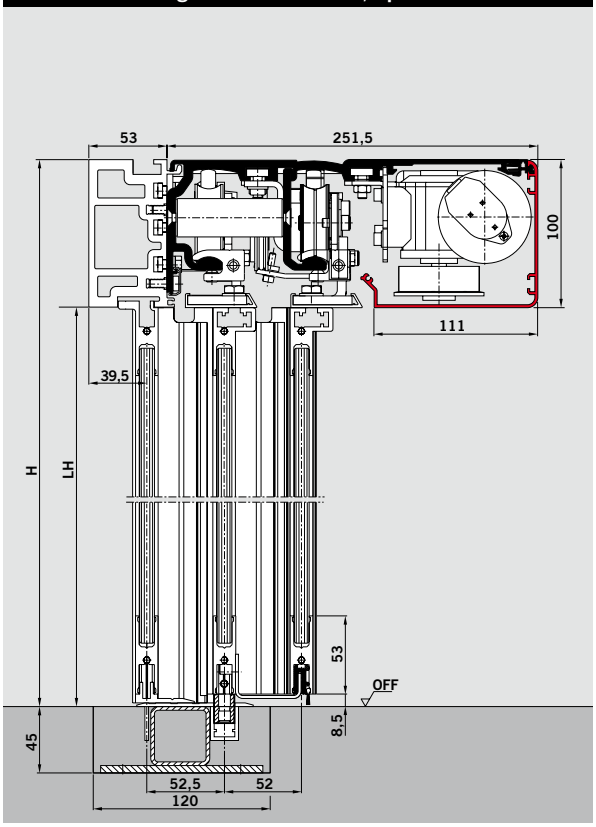
Determination of clear passage height LH (mm) depending on the clear passage width LW (mm) and the glazing:

see diagrams on page 28/29

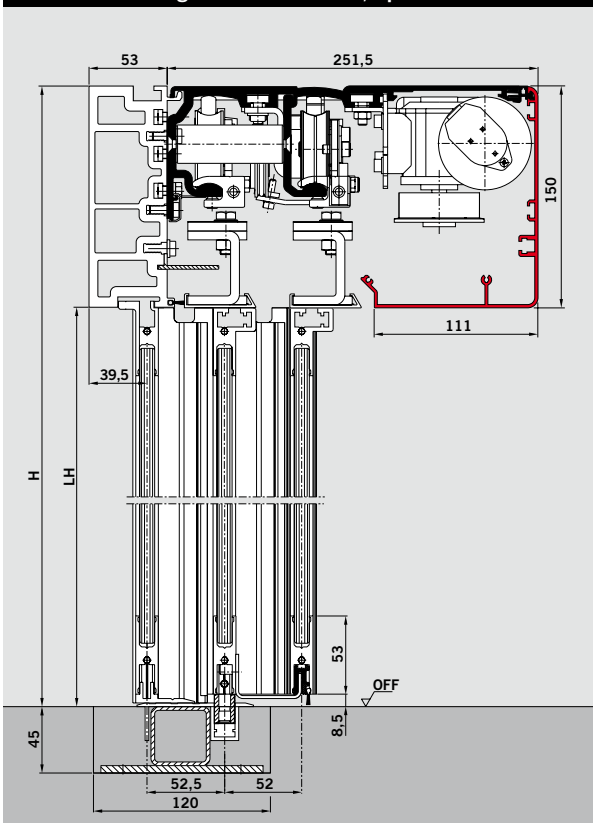
TST-G with fanlight



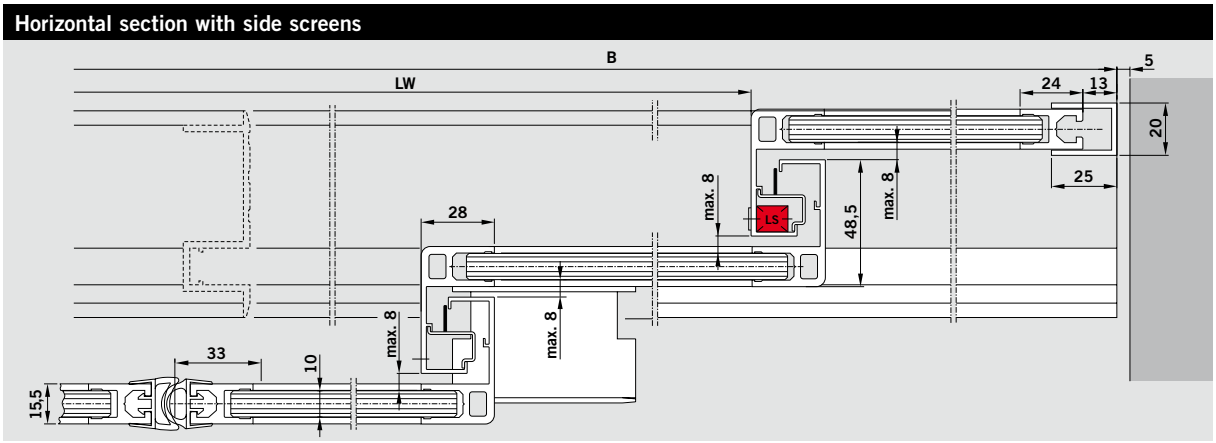
Corridor mounting with side screens, operator 100 mm



Corridor mounting with side screens, operator 150 mm



Horizontal section with side screens



With FLEX fine-frame profiles

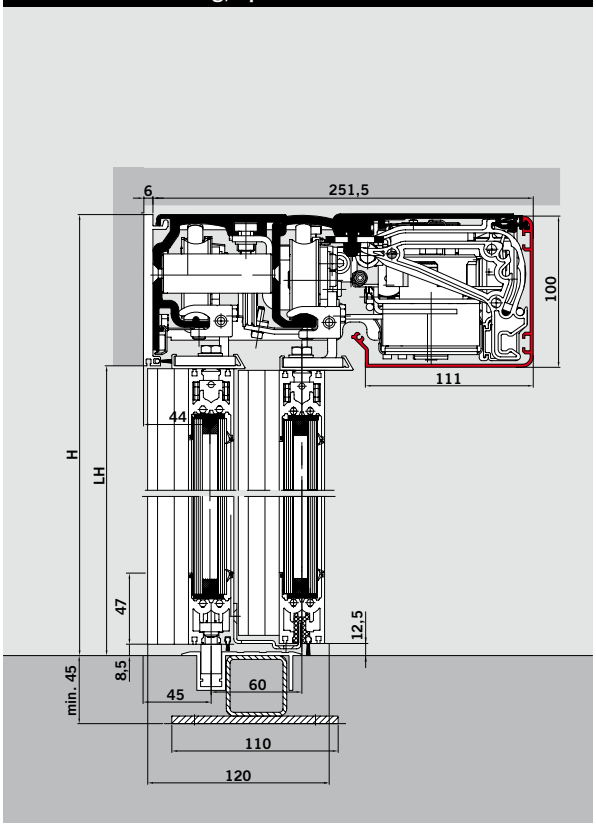
Features

- 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

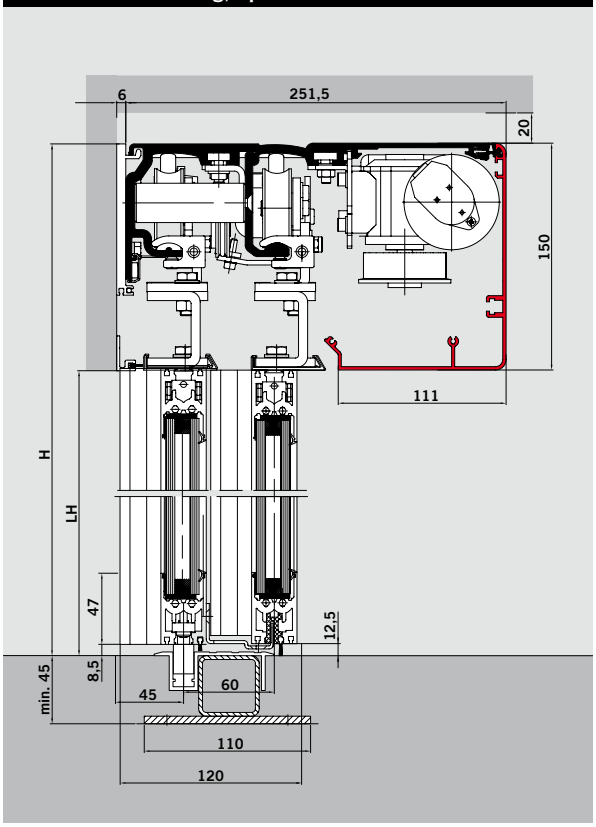
System dimensions and max. door panel weight

	Single-panel		Double-panel	
Operator	System width B	max. door panel weight	System width B	max. door panel weight
ES 200 T *Easy*				
without side screens	B = 1,5 x LW + 100	2 x 50 kg	B = 1,5 x LW + 100	4 x 43 kg
with side screens	B = 1,5 x LW + 100	2 x 50 kg	B = 1,5 x LW + 164	4 x 43 kg
ES 200-T				
without side screens	B = 1,5 x LW + 100	2 x 75 kg	B = 1,5 x LW + 100	4 x 75 kg
with side screens	B = 1,5 x LW + 100	2 x 75 kg	B = 1,5 x LW + 164	4 x 75 kg
ES 200-T-2D				
without side screens	B = 1,5 x LW + 100	2 x 65 kg	B = 1,5 x LW + 100	4 x 65 kg
with side screens	B = 1,5 x LW + 100	2 x 65 kg	B = 1,5 x LW + 164	4 x 65 kg

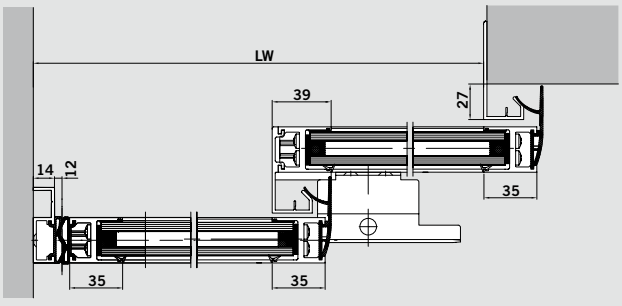
Wall / lintel mounting, operator 100 mm



Wall / lintel mounting, operator 150 mm



Horizontal section of connection profile for door systems that open only to one side



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

Glass panes

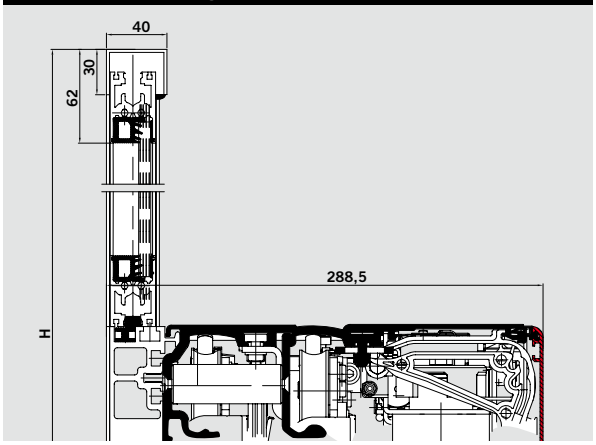
- ISO 22 (double-glazing) (4/14/4)
- ISO 22 (double-glazing) (6/10/6)
- Special glazing

Clear passage height (LH)

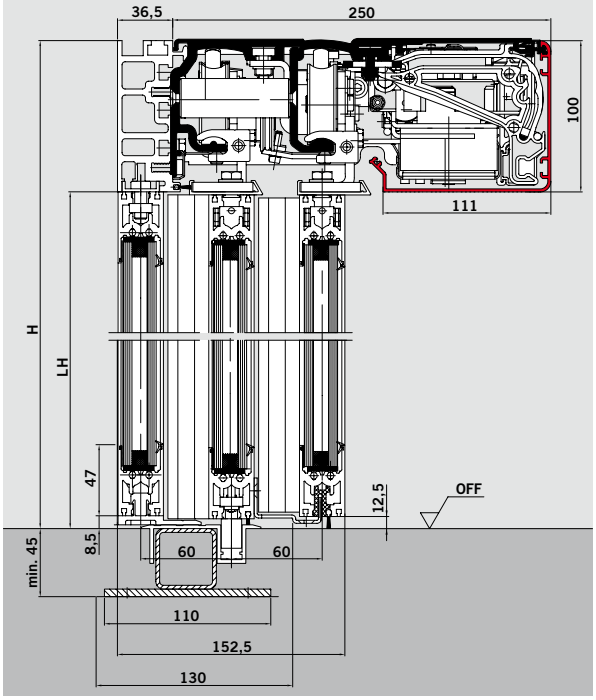
Determination of clear passage height LH (mm) depending on the clear passage width LW (mm) and the glazing:

see diagrams on page 28/29

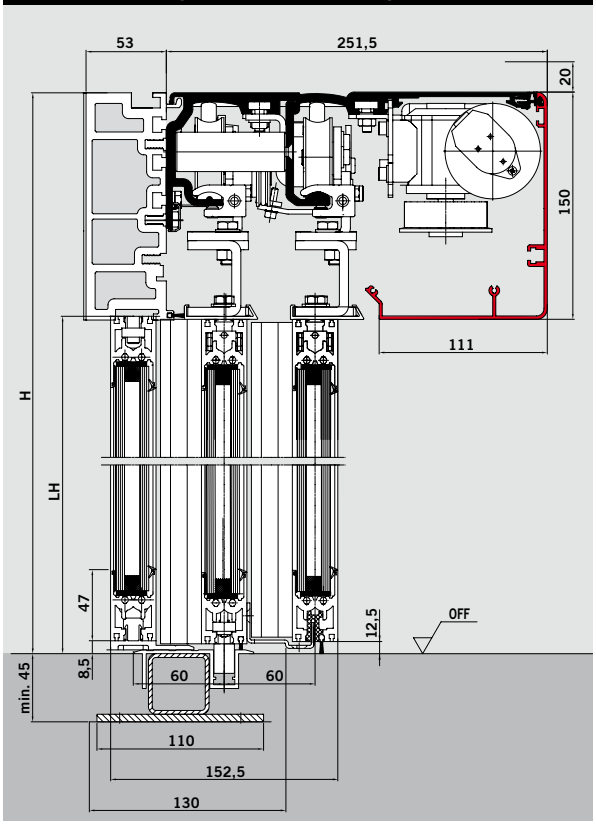
TST-G/Iso with fanlight



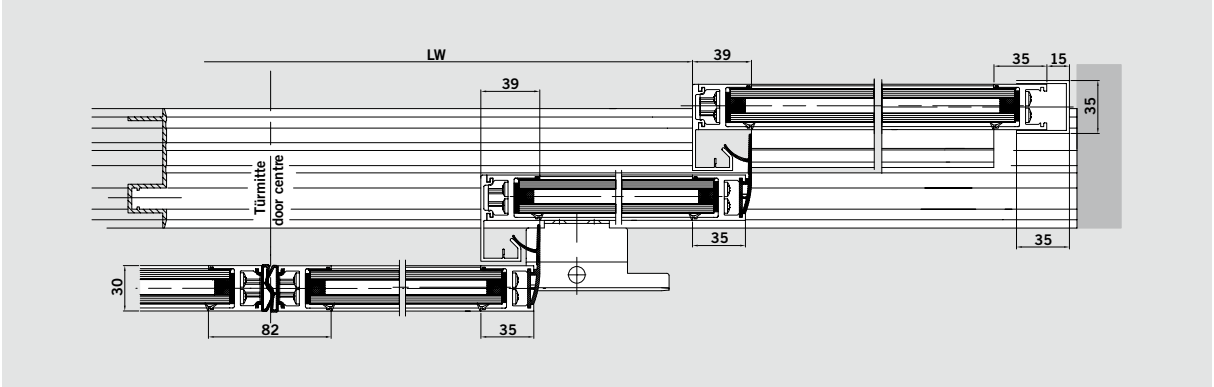
Corridor mounting with side screens, operator 100 mm



Corridor mounting with side screens, operator 150 mm



Horizontal section of connection profile



With R frame profiles

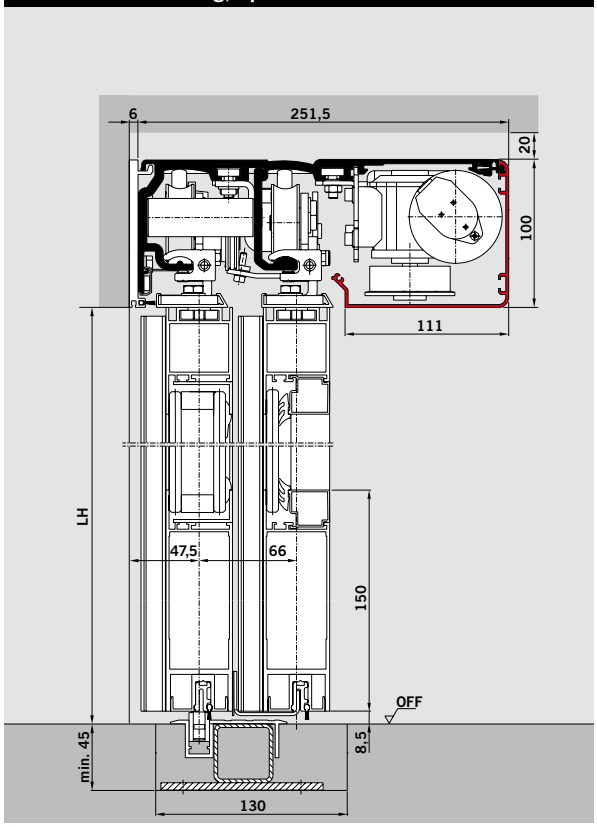
Features

- Robust and reliable frames to protect the glass panes
- High stability and torsional rigidity
- Draught protection thanks to interlocking side seals

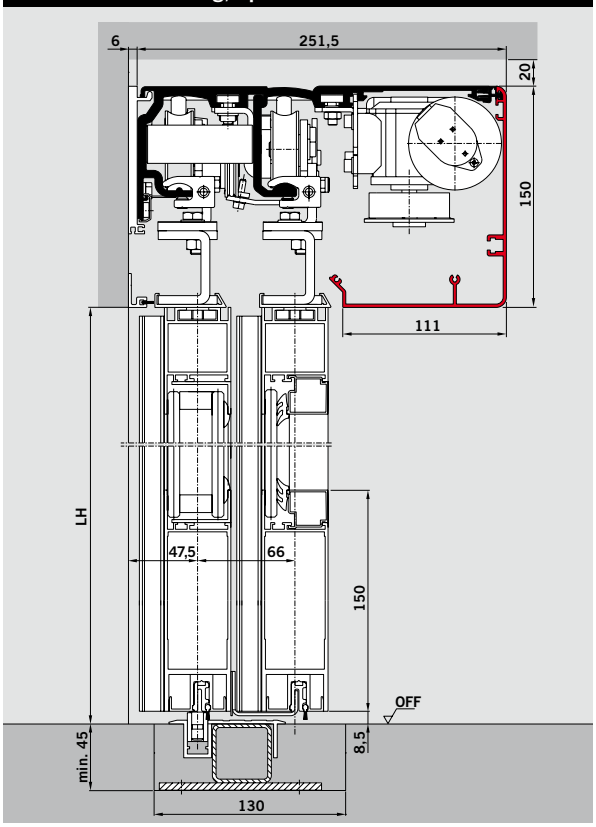
System dimensions and max. door panel weight

Operator	Single-panel System width B	Single-panel max. door panel weight	Double-panel System width B	Double-panel max. door panel weight
ES 200 T *Easy*				
without side screens	B = 1,5 x LW + 100	2 x 50 kg	B = 1,5 x LW + 150	4 x 43 kg
with side screens	B = 1,5 x LW + 140	2 x 50 kg	B = 1,5 x LW + 230	4 x 43 kg
ES 200-T				
without side screens	B = 1,5 x LW + 100	2 x 75 kg	B = 1,5 x LW + 150	4 x 75 kg
with side screens	B = 1,5 x LW + 140	2 x 75 kg	B = 1,5 x LW + 230	4 x 75 kg
ES 200-T-2D				
without side screens	B = 1,5 x LW + 100	2 x 65 kg	B = 1,5 x LW + 150	4 x 65 kg
with side screens	B = 1,5 x LW + 140	2 x 65 kg	B = 1,5 x LW + 230	4 x 65 kg

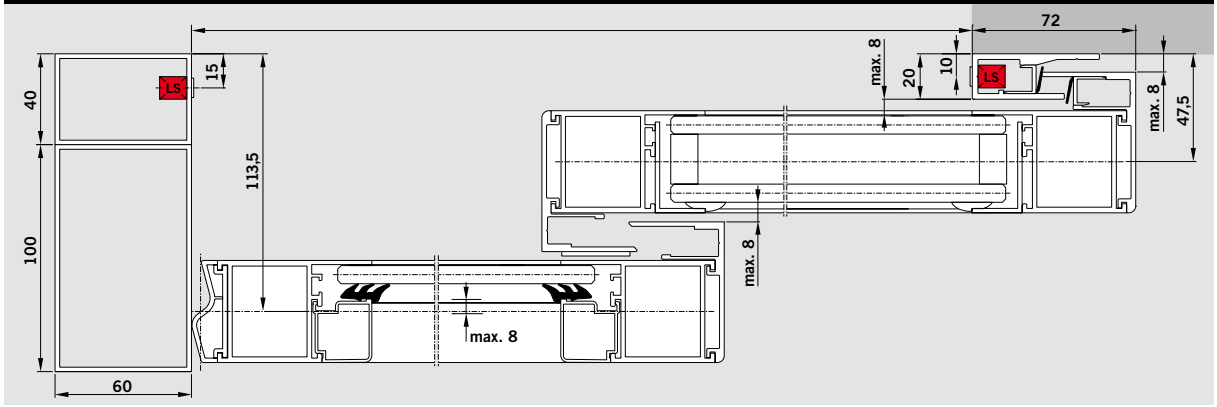
Wall / lintel mounting, operator 100 mm



Wall / lintel mounting, operator 150 mm



Horizontal section of connection profile for door systems that open only to one side



Glass panes

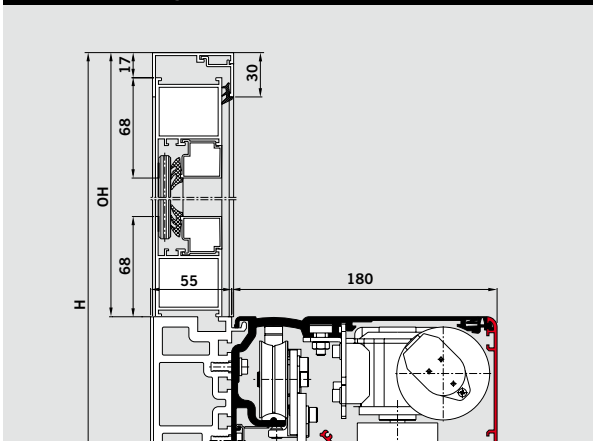
– Toughened safety glass (TSG) 6 mm	■
– Toughened safety glass (TSG) 8 mm	■
– Toughened safety glass (TSG) 10 mm	■
– Laminated safety glass (LSG) 6 mm	○
– Laminated safety glass (LSG) 8 mm	○
– Laminated safety glass (LSG) 9 mm, A1	○
– Laminated safety glass (LSG) 10 mm	○
– ISO glazing (double-glazing) 5/14/5 mm	■
– ISO glazing (double-glazing) 6/12/6 mm	■

■ alternatively ○ optional

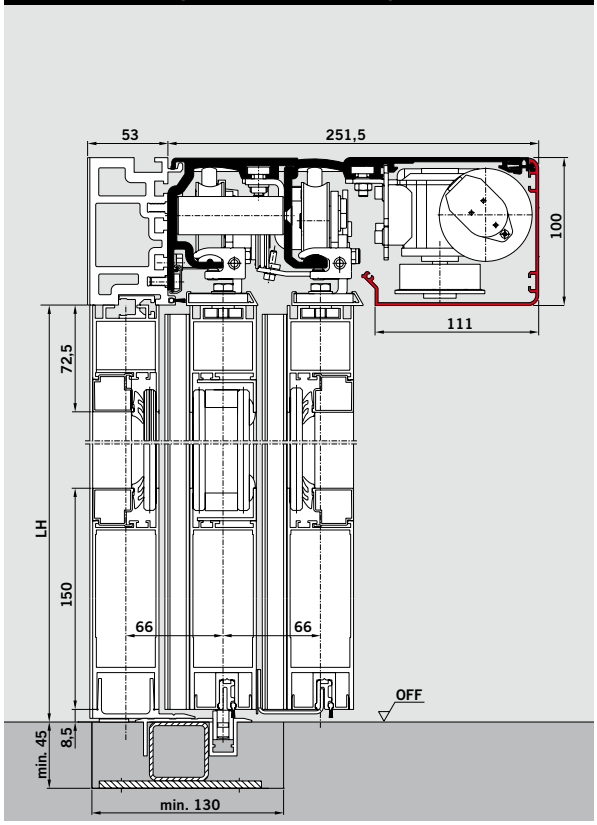
Clear passage height (LH)

Determination of clear passage height LH (mm) depending on the clear passage width LW (mm) and the glazing:
see diagrams on page 28/29

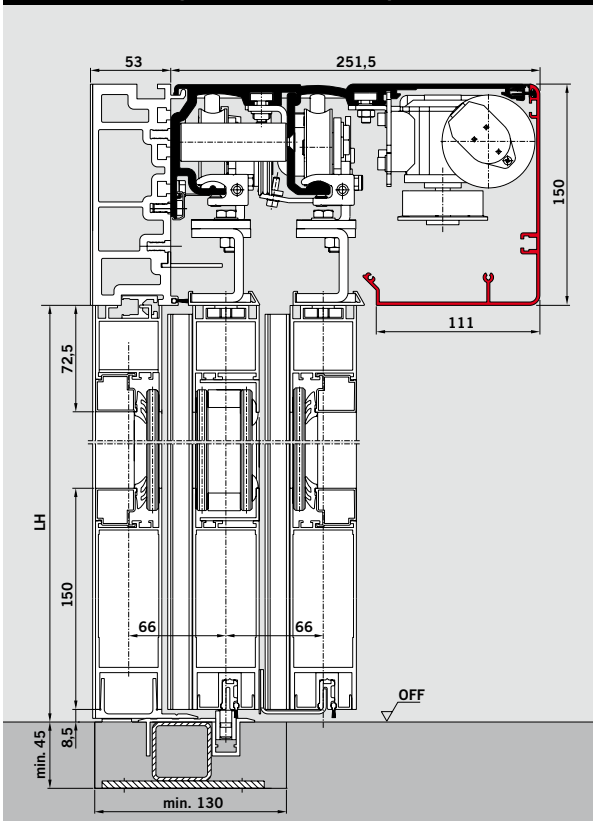
TST-R with fanlight



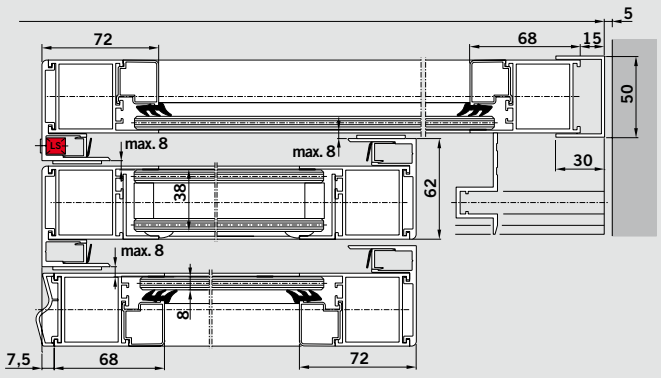
Corridor mounting with side screens, operator 100 mm



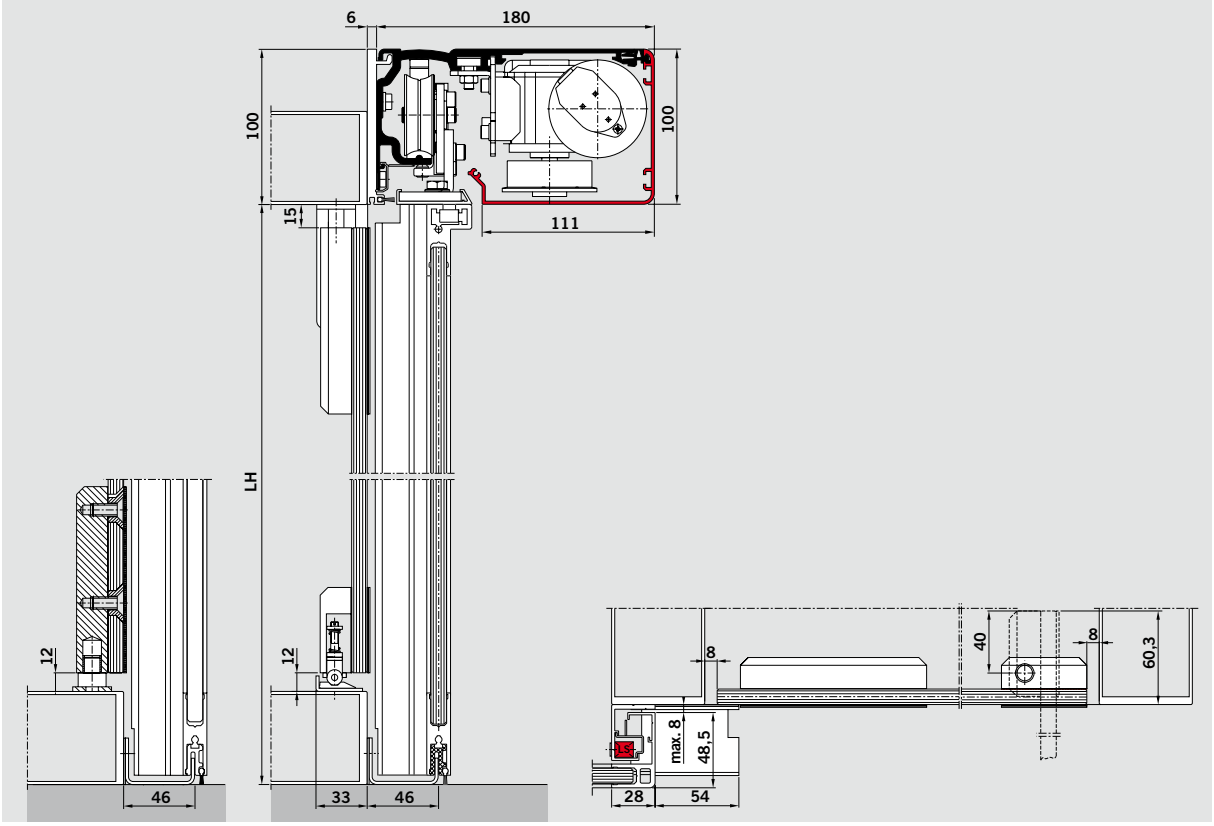
Corridor mounting with side screens, operator 150 mm



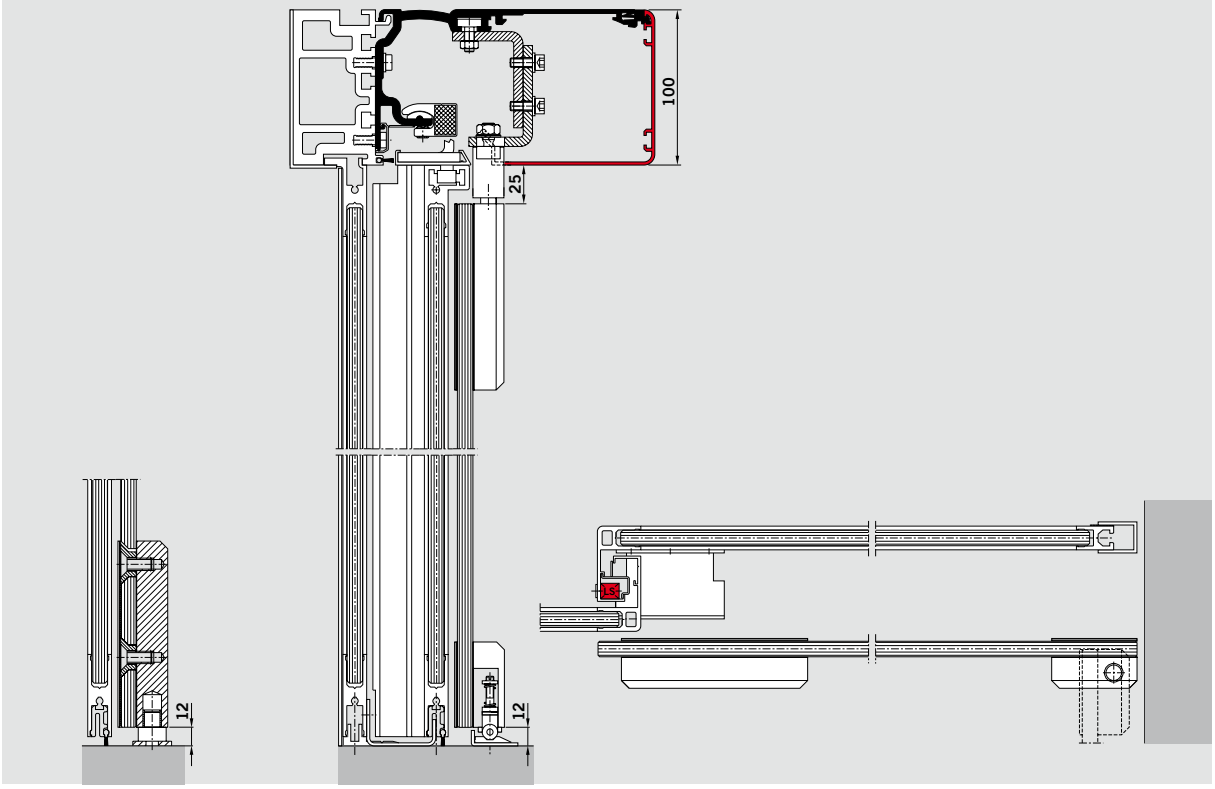
Horizontal section with side screens



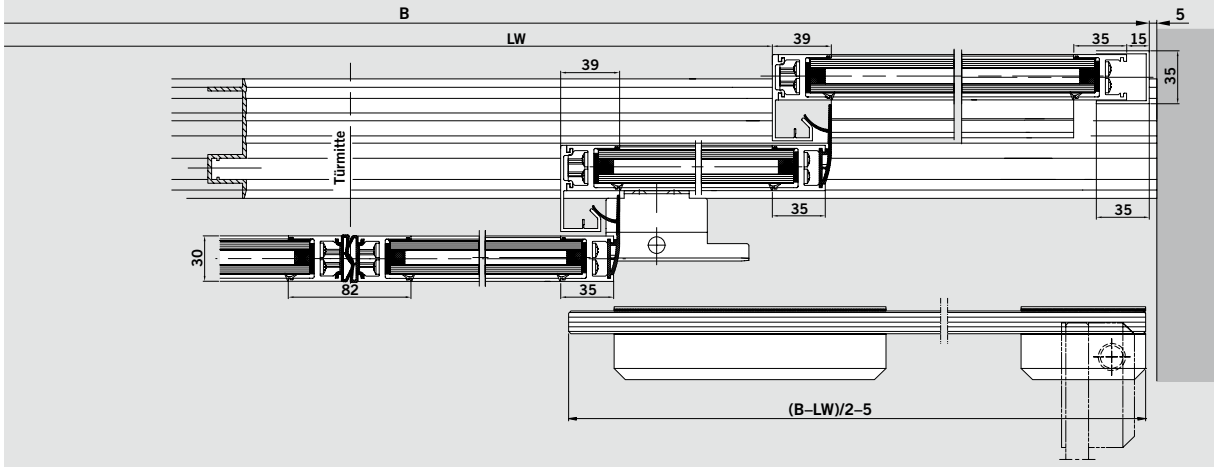
Safety screen latch – post, ST-G



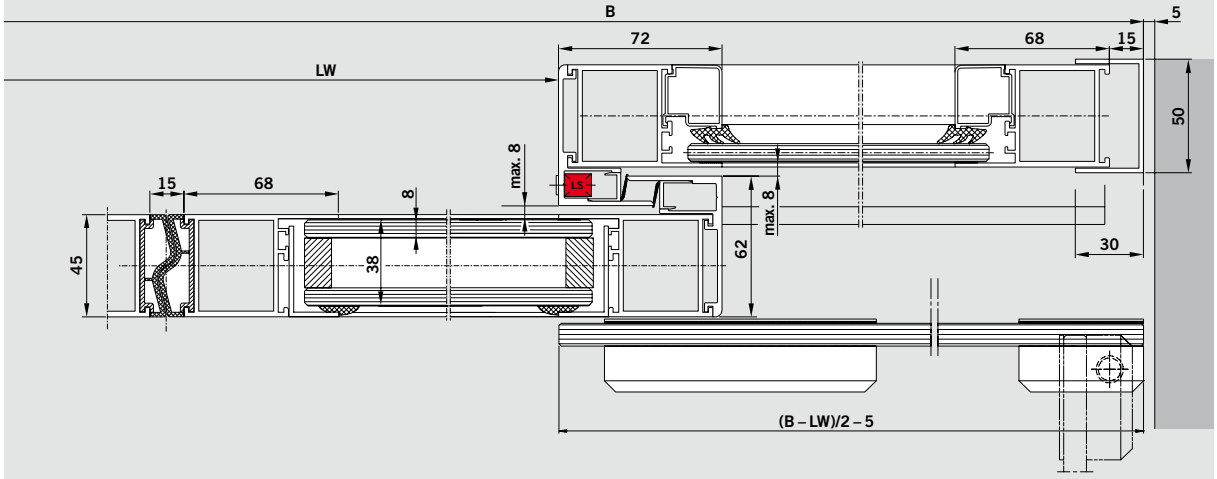
ST-G with internal safety screen



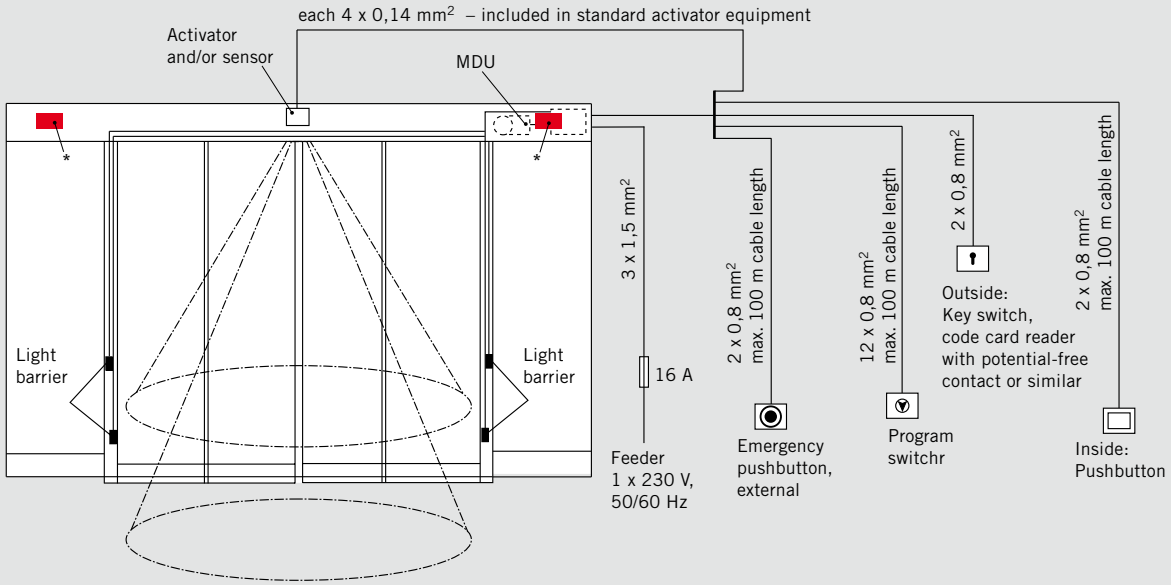
ST-G/ISO with internal safety screen



ST-R with internal safety screen



Connections



* Sensors to monitor the secondary closing edges in accordance with DIN 18650

Determination of door panel size

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

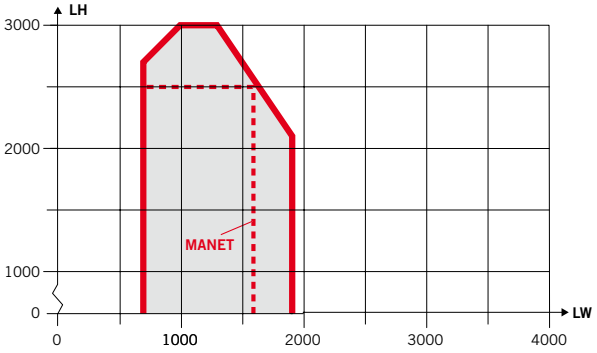
The maximum door panel weight of the relevant operators may not be exceeded. In areas with unfavourable wind conditions smaller door sizes are to be installed.

The charts refer to an average door panel weight of 25 kg/m².

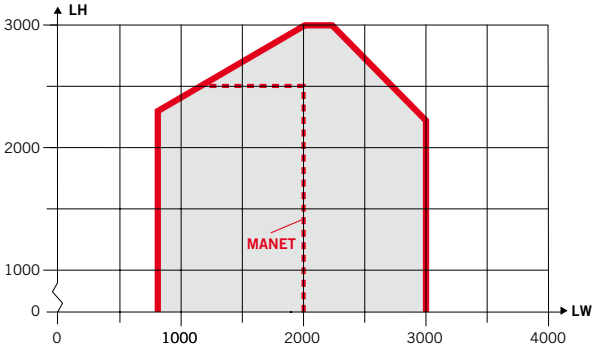
Higher clear passage heights (LH) on demand.

Please consider the limited opening dimensions on application of MANET single-point fixings:
Single-panel max. clear passage width (LW) = 1600 mm,
clear passage height (LH) = 2500 mm
Double-panel max. clear passage width (LW) = 2000 mm,
clear passage height (LH) = 2500 mm.

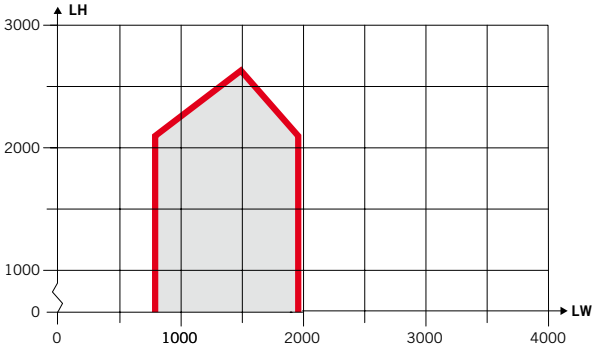
ST-ES 200 Easy single-panel



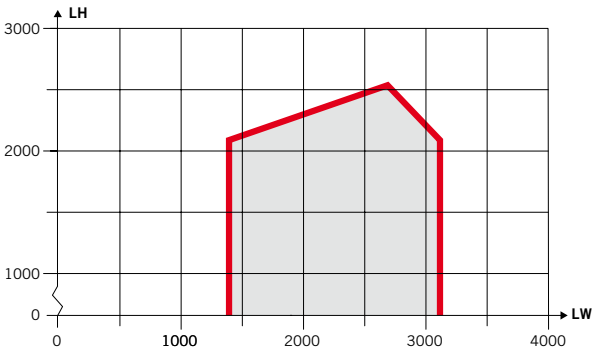
ST-ES 200 Easy double-panel



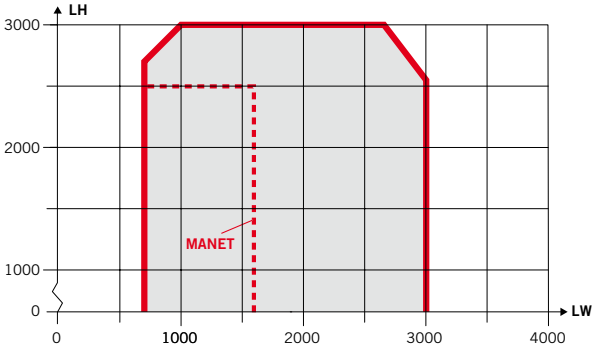
TST-ES 200 Easy double-panel



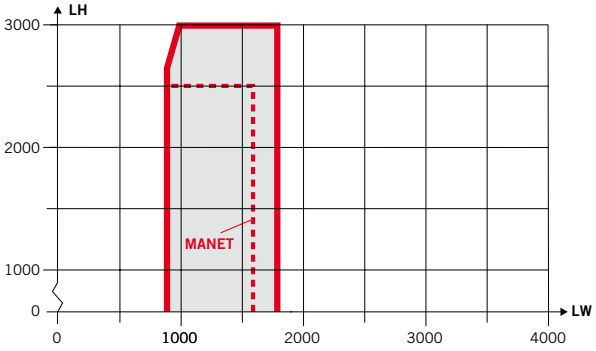
TST-ES 200 Easy 4-panel



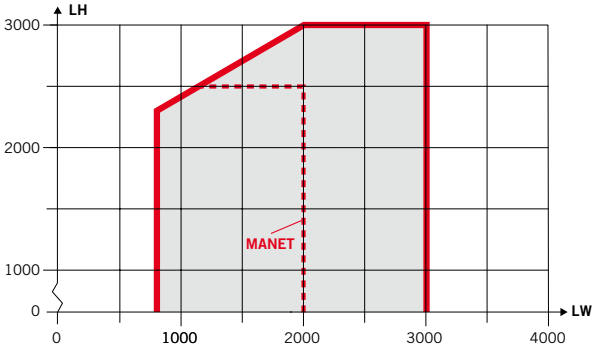
ST-ES 200 single-panel



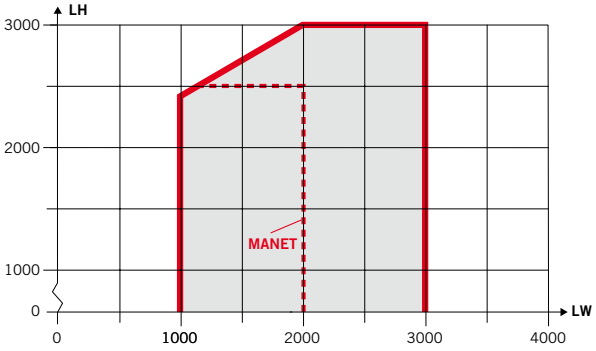
ST-ES 200 2D single-panel



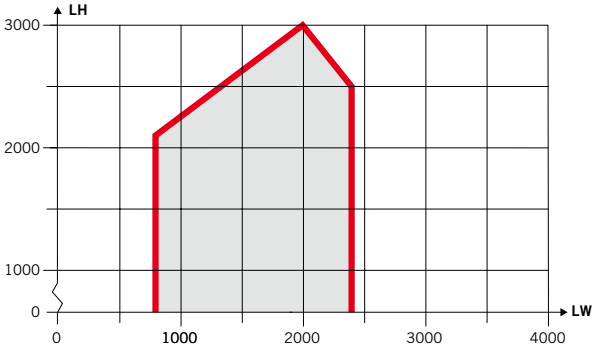
ST-ES 200 double-panel



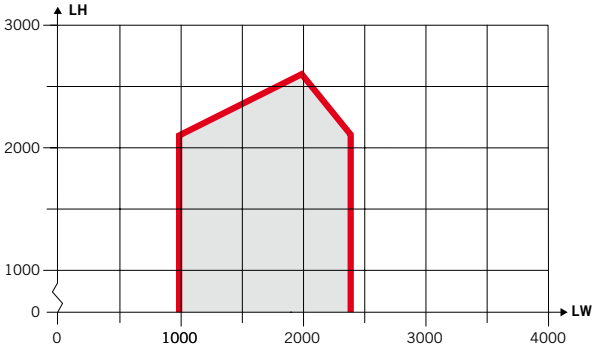
ST-ES 200 2D double-panel



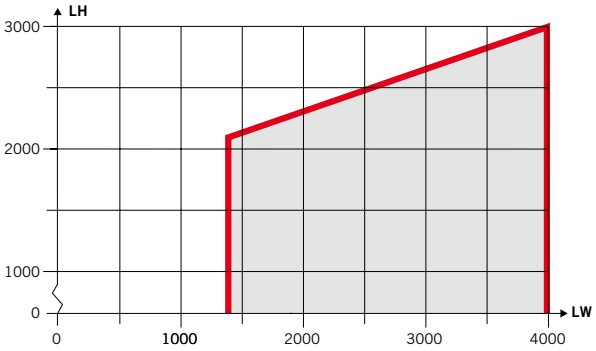
TST-ES 200 double-panel



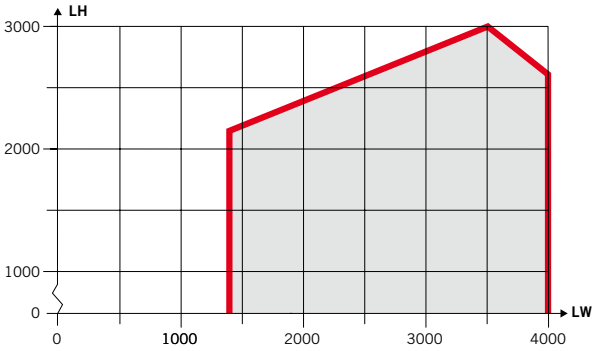
TST-ES 200 2D double-panel



TST-ES 200 4-panel



TST-ES 200 2D 4-panel



Program switch

When combining the system with a program switch out of the DORMA accessory range, the automatic door system meets individual requirements and offers easy handling.

These program switches are available in various designs have been conceived for all kinds of demands.

Furthermore they offer various options, from a mechanical to a full-electronic version alternatively also lockable via Euro profile half-cylinder or in a full-electronic way via code.

- Up to 5 different functions: Off, Automatic, Exit Only, Partial Open, Permanent Open
- Electronic program switches in System 55 design to cope with the highest aesthetic demands

Program switches for sliding door operators

Program switches	Designation	Specification	Installation system	Order No.
 PG-S1	**PG-S1**	5-position, aluminium, white, UP, 80 x 80 x 40 mm	Gira S-Color	19135401150
 PG-S2	**PG-S2**	5-position, lockable, aluminium, white, flush-mounting, 80 x 80 x 40 mm	Gira S-Color	19135602150
	PG-FST2*	5-position, lockable via Euro profile half-cylinder, also suitable for FST systems, aluminium, white, for flush-mounting, 105 x 80 x 65 mm Box for surface-mounting: 19142201170	Deutsche Solenoid	19135602150
 EPS-S	**EPS-S**	Full-electronic program switch in System 55 design, 5-position, lockable via code or additional key switch TL-ST S55, membrane keypad, aluminium-coloured, white, flush-mounting, 80 x 80 mm	System 55	16556901150
	For header installation PS-FST3**	5-position, lockable, also suitable for FST systems		25006014150

* Illustration see below ** no illustration

Program switches for sliding door operators in emergency exits and escape routes (FST)

Program switches	Designation	Specification	Installation system	Order No.
 PG-FST1	**PG-FST1**	5-position, lockable, aluminium, white, flush-mounting, 80 x 80 mm	Gira S-Color	19135603150
 PG-FST2	**PG-FST2**	5-position, lockable via Euro profile half-cylinder, white, aluminium, flush-mounting, 105 x 80 x 65 mm, Box for surface-mounting: 19142201170 (see page 11)	Deutsche Solenoid	19142001170
	EPS-FST	Full-electronic program switch in System 55 design, 5-position, lockable via code or additional key switch TL-ST S55, membrane keypad, white, aluminium-coloured, flush-mounting, 80 x 80 mm	System 55	16556801150
 EPS-FST	**For header installation* PS-FST3**	5-position, lockable		25006014150

* no illustration

Pushbuttons

Pushbutton

Pushbutton

Designation	Specification	Installation system	Order No.
Pushbutton	Single-pole changeover contact, standard frame, white, flush-mounting	System 55	19144701170

Key switches

Key switch

KT 3-1 AP/UP

KT 8 AP/UP

Designation	Specification	Order No.
KT 3-1	1 NO contact, with Euro profile half-cylinder (can be replaced by any half-cylinder of a master-key system), key only retractable in neutral position, aluminium, metal, 75 x 75 x 60 mm	
KT 3-1 UP	flush-mounting	05054531332
KT 3-1 AP	surface-mounting	05054631332
KT 8	Lettering “Auf, Zu” (German for “Open/Closed”), 2 NO contacts, with Euro profile half-cylinder (can be replaced by any master-key system half-cylinder), key only retractable in neutral position, aluminium, metal, 75 x 75 x 60 mm	
KT 8 UP	flush-mounting	05054831332
KT 8 AP	surface-mounting	05054931332

Key switch TL-ST key switch out of STA range

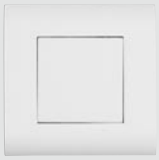
Key switch

TL-ST S55

Designation	Specification	Installation system	Order No.
TL-ST S55	Switch with single-pole changeover contact, for Euro profile half-cylinder by others to DIN 18252, locking cam centre 30 – 32.5 mm, overall length 40.5 – 43,5 mm, Locking cam position left (90°), incl. cover for System 55, not suitable for box for surface-mounting, not including Euro profile half-cylinder, **not including frame**		
TL-ST S55 W	white	System 55	56330710
TL-ST S55 S	silver	System 55	56330701
TL-ST S55 A	anthracite	System 55	56330715

Switches

Switches



Switches

Designation	Specification	Installation system	Order No.
On / Off switch	white, aluminium, flush-mounting, 80 x 80 mm	Gira S-Color	19135403150
Radar switch	„MAGIC SWITCH", proximity-type radar switch responds to movement, for flush-mounting, 80 x 80 mm		05076831332

Key switches

KT 3-2

Key switches

Designation	Specification	Order No.
KT 3-2	1 NO contact with Euro profile half-cylinder, can be replaced by any master key system half-cylinder, key only retractable in neutral position, interchangeable cover, lettering "Ein, Aus" (German for "On/Off"), aluminium, for flush-mounting: 125 x 100 mm, for surface-mounting: 70 x 90 mm	05054731332
KT 3-2.1*	2 changeover contacts, with Euro profile half-cylinder, replaceable by any master-key system half-cylinder, key only retractable in neutral position, lettering "Ein, Aus" (German for "On/Off"), aluminium, for flush-mounting: 125 x 100 mm, for surface mounting: 70 x 90 mm	05032631332

*no illustration

Emergency pushbuttons

NAT 1

TL-N S55

NAT 4

Emergency pushbutton

Designation	Specification	Installation system	Order No.
	To interrupt the automatic movement of the door. Emergency pushbutton (Function: Emergency Off) for automatic door operators. Manufactured according to ZH 1/494 (German Guidelines for power-operated windows, doors and gates) and BGR 232 (German Employer's Liability Insurance Association Rule) as well as DIN 18650 (German Industrial Standard). Red knob with yellow centre insert. Maximum load current: 10 A at 230 V AC.		
NAT 1	NO contact: 1, NC contact: 1, white frame, flush-mounting, 80 x 80 mm	System 55	90400025
NAT 2*	Function: "Emergency Open" with green knob, NO contact: 1, NC contact: 1, Maximum load current: 10 A at 230 V AC, white frame, flush-mounting, 80 x 80 mm	System 55	90400035
	Highly-illuminated emergency pushbutton environment with visual locking status indication, optical and acoustic alarm via yellow flashlight and integrated alarm siren, sabotage-proof, behind glass, **not including frame**		
TL-N S55	NO contact: 1, NC contact: 1, Maximum load current: 1 A at 24 V DC, flush-mounting, 80 x 80 mm	System 55	56330500
NAT 3*	Behind glass, NO contact: 1, NC contact: 1 for flush-mounting, 120 x 87 mm		90400023
NAT 4	NO contact: 1, NC contact: 1, for surface-mounting, 68 x 68 mm		05027031332

* no illustration

Infrared detectors

These detectors are designed to safeguard automatic doors by detecting moving people or objects

Light barriers

Light barriers

LB 03

Designation	Specification	Order No.
	To safeguard the passage area of sliding doors by detecting the presence of people and objects	
LB 03	Counter light barrier comprising transmitter and receiver	05102331332

Crystal Presence

Crystal Presence

Crystal Presence

System for ceiling mounting

Designation	Specification	Order No.
	– For improved protection of passage areas and secondary closing edges of sliding doors – Designed to detect the presence of people and objects	
Crystal Presence	Presence detection curtain for improved protection thanks to exactly adjustable detection range, black	16504301170
System for ceiling mounting	for Crystal Presence, white	05094731332

Combined sensors

Combined sensors

Activ8.2

Jupiter

Designation	Specification	Order No.
	To activate (open) and protect automatic sliding doors This system is designed to substitute light barriers with the aid of an integrated active infrared function. This combined sensor opens sliding doors via radar and protects the main and secondary closing edges via an active infrared system.	
Activ8.2	Direction recognition, black	16518301170
Activ8.3-N	Direction recognition, self-monitoring, suitable for application on FST doors (fire and smoke doors), black	16555001170
Jupiter	Direction recognition with cross-traffic suppression, black	16563201170
Jupiter SE	Direction recognition with cross-traffic suppression, self-monitoring, suitable for application on FST doors (fire and smoke doors), black	16563301170

Art Motion

Designation	Specification	Order No.
White		16614703170
Silver		16614702170
Black		16614701170

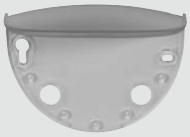
Radar motion detectors

Radar motion detectors

Eagle

Merkur

System for ceiling installation Eagle



Rain protection cover Eagle

Special bracket (Eagle)

System for ceiling installation (Merkur)

Designation	Specification	Colour	Order No.
	The user-friendliness of automatic doors depends a lot on what kind of activator is used and its construction. The DORMA sensor range combines the flexibility that is required for the different fields of application with reliability and the highest level of user friendliness. Furthermore it effectively detects moving people or objects in order to activate (open) automatic doors.		
	Standard motion detectors		
Eagle 2	Standard	black	16503201170
		white	16503203170
		silver	16507502170
Merkur M	Standard	black	16537501170
	Motion detectors with direction recognition		
	Direction recognition for perfectly controlled opening and closing cycles.		
Eagle 1	Direction recognition	black	16503101170
		white	16503103170
		silver	16503102170
Merkur	Cross-traffic suppression with direction recognition	black	16532201170
	Self-monitoring motion detector (FST application – for door with application in emergency exits and escape routes)		
	Radar motion detector for doors in emergency exits and escape routes with self-monitoring function and electronics in redundant design		
Eagle 3-N	Self-monitoring, direction recognition	black	1655161170
		white	1655163170
		silver	1655162170
Merkur SE/R	Self-monitoring, direction recognition with cross traffic suppression	black	16532201170
	Accessories for Eagle detectors		
	System for ceiling mounting	white	16502901170
	Rain protection cover	transparent	05090731332
	Infrared remote control to adjust all radar motion detectors	black	16503001170
	Special bracket, for projections of up to 500 mm	black	19138903150
	Accessories for Merkur-type detectors		
	System for ceiling installation (Merkur)	white	05102231332

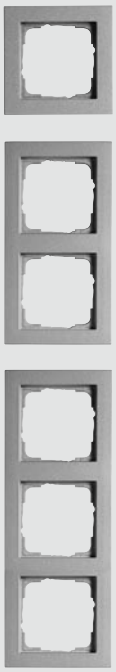
DORMA AutoSwitch transponder

DORMA AutoSwitch

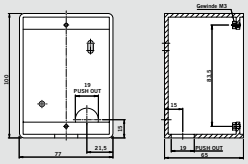
Designation	Specification	Order No.
	The “active” transponder system. The transponder sends a pulse to the control unit as soon as it enters the receiver range, which amounts to approx. 2.5 m. This system is especially suitable for areas where a manual operation of the system is to be excluded. Thanks to its range, it is the perfect access control system for doors used by wheelchair drivers.	
DORMA AutoSwitch	Receiver/control unit, surface-mounted version, white	16571101175
	Programming-(Transponder-) key, yellow	16571201175
	Standard-(Transponder-) key, blue	16571301175

Frames and boxes for surface-mounted pushbuttons and switches

Frames



Frames



Box for surface-mounting

Designation	Specification	All dimensions in mm (W x H x D)	Installation system	Order No.
System 55	**Cover frame (STA range)**			
FR-S55 1	Single-type frame, Standard 55, white	80.7 x 80.7	System 55	56391110
FR-S55 2	Double-type frame, Standard 55, white	151.8 x 80.7	System 55	56391210
FR-S55 3	Triple-type frame, Standard 55, white	223.3 x 80.7	System 55	56391310
FR-E2W 1	Single-type frame, E2 55, white	80.8 x 80.8	System 55	56392110
FR-E2W 2	Double-type frame, E2 55, white	151.9 x 80.8	System 55	56392210
FR-E2W 3	Triple-type frame, E2 55, white	223.4 x 80.8	System 55	56392310
FR-E2S 1	Single-type frame, E2 55, silver	80.8 x 80.8	System 55	56392101
FR-E2S 2	Double-type frame, E2 55, silver	151.9 x 80.8	System 55	56392201
FR-E2S 3	Triple-type frame, E2 55, silver	223.4 x 80.8	System 55	56392301
FR-E2A 1	Single-type frame, E2 55, anthracite	80.8 x 80.8	System 55	56392115
FR-E2A 2	Double-type frame, E2 55, anthracite	151.9 x 80.8	System 55	56392215
FR-E2A 3	Triple-type frame, E2 55, anthracite	223.4 x 80.8	System 55	56392315

Please see STA price list for further frames and versions.

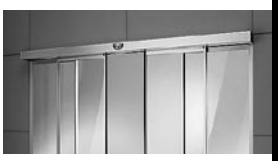
Designation	Specification	All dimensions in mm (W x H x D)	Installation system	Order No.
System 55	**Boxes for surface-mounting for Standard 55 frames**			
ST-AP 55-1*	Single-type frame, pure white, RAL 9010	81.0 x 52.5 x 44.5	System 55	515853332
ST-AP 55-2*	Double-type frame, pure white, RAL 9010	152.0 x 81.0 x 44.5	System 55	515863332
ST-AP 55-3*	Triple-type frame, pure white RAL 9010	224.0 x 81.0 x 44.5	System 55	515873332
Box for surface-mounting	For mechanical program switch PG-FST2 with Euro profile half-cylinder Single-type frame, white	100 x 80 x 65	Deutsche Solenoid	19142201170

* no illustration

DORMA

www.dorma.com

Door Control



Automatic

Glass Fittings
and Accessories

Security/Time
and Access (STA)

Movable Walls

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