Automatic
Sliding door systems

DORMA ST TST

NEW
with ES 200 operator system

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 various solutions for the individual design of your entrance area. No matter if you prefer an elegant all-glass solution 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 solution for your entrance. DORMA ST-ES 200, FST-ES 200, TST-ES 200 and FTST-ES 200 systems not only meet 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 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 width of up to 3000 mm can easily be realised with all versions of the ES 200 operator system.

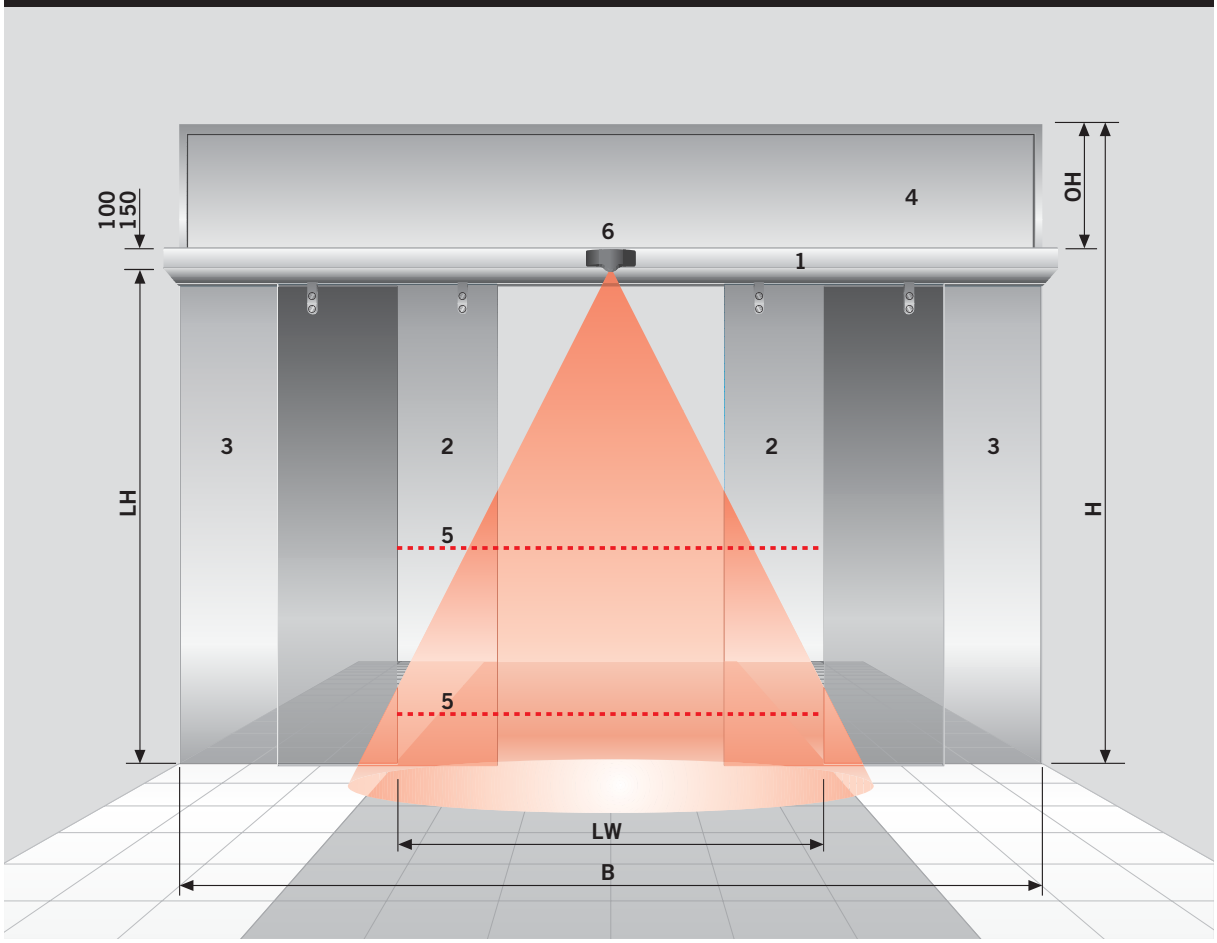
German type-approved door systems for emergency exits and escape routes
Due to their established Dual Drive Technology (ES 200-2D), DORMA sliding doors provide a convincing and reliable solution for emergency exits and escape routes. All operators are of redundant design and the systems are equipped 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 an especially economical solution. All door systems may be projected and manufactured in oversize and delivered pre-finished if desired. The professional mounting and commissioning by our qualified staff complete our service range.

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 reversion
- Delivery of pre-finished systems, mounting and commissioning if desired
- Manufactured according to the latest state of the art 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)
- 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 transom 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 panel
5 Safety light barrier
6 Activator, e.g. radar motion detector

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

Door parameters	ES 200 Easy	ES 200	ES 200-2D
Single-panel sliding door – Clear passage width (LW)* – Max. door panel weight	 700 – 3000 mm 1 x 100 kg	 700 – 3000 mm 1 x 200 kg	 900 – 1800 mm 1 x 150 kg
Double-panel sliding door – Clear passage width (LW)* – Max. door panel weight	 800 – 3000 mm 2 x 85 kg	 800 – 3000 mm 2 x 160 kg	 900 – 3000 mm 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 all-glass profile	 ●	 ●	 ●
– All-glass profile with G-Iso double glazing	●	●	●
– R standard frame profile	●	●	●
– R-Thermo thermal break profile	●	●	●
– MANET single-point fixing max. clear passage width (LW) single-panel = 1600 mm double-panel = 2000 mm	●	●	●
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 installation 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	●	●	●

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)	●	●	●
Setting of basic parameters via integrated display and pushbuttons	●	●	●
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 control	–	●	●
Door status contact (triple-type)	–	●	●
Monitoring of main closing edge and secondary closing edges	– / –	● / ●	● / –
Panic closing function	–	●	–
Bell contact	–	●	●
Airlock control	–	●	–
Synchronous operation	–	●	●

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	–	○	○

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

Fanlights and static side screens are generally available as accessories.

● standard

○ optional

With G all-glass profiles

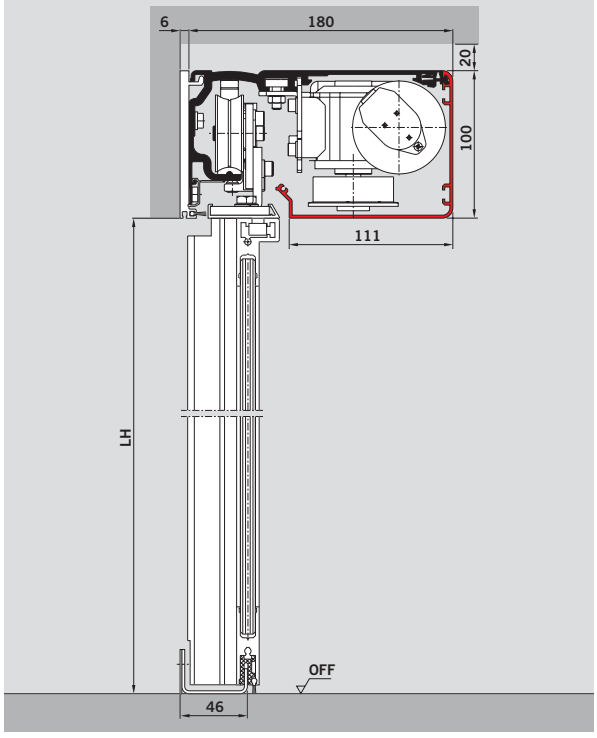
Features

- Elegant all-glass design
- High stability and torsional rigidity
- Draught protection thanks to side seals

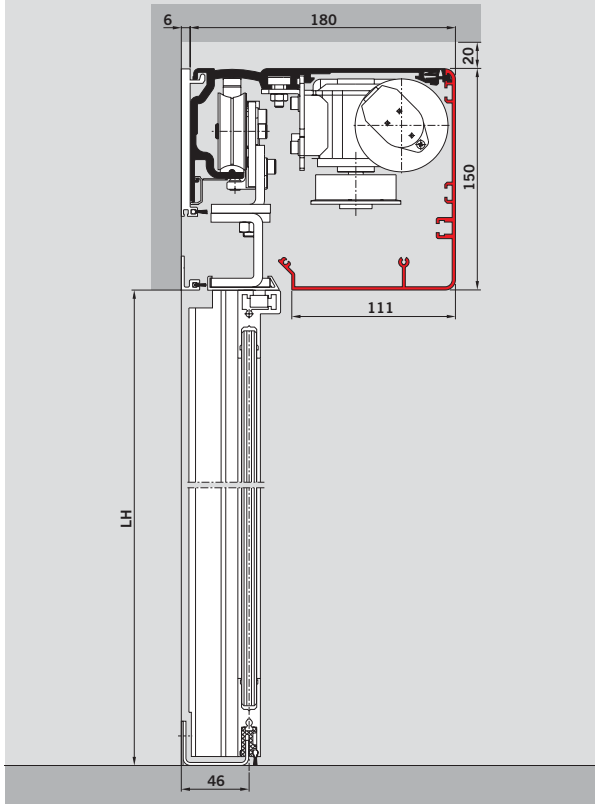
System dimensions and max. door panel weight

	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 + 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	

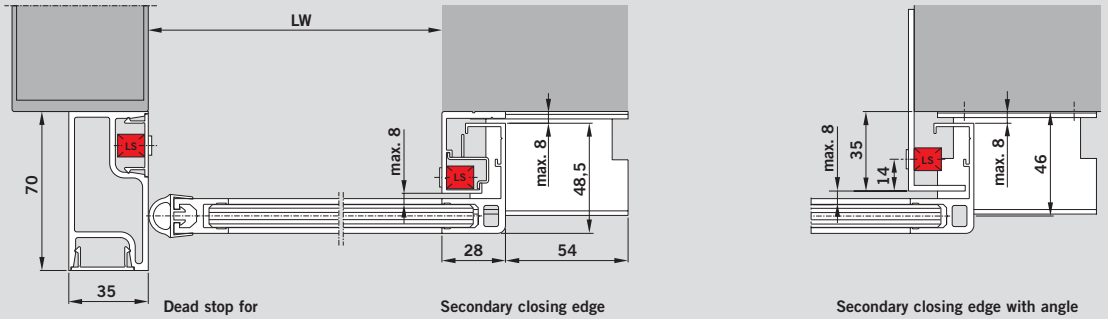
Wall / lintel fixing, operator 100 mm



Wall / lintel fixing, operator 150 mm



Horizontal section of connection profile



Dead stop for single-panel systems

Secondary closing edge with U-section profile

Secondary closing edge with angle profile for light barrier fixing

Panes

– Single-pane toughened glass (ESG) 10 mm
– Laminated safety glass (VSG) 9.6 mm made from single-pane toughened glass (ESG)
– Special glazing

Protective panel

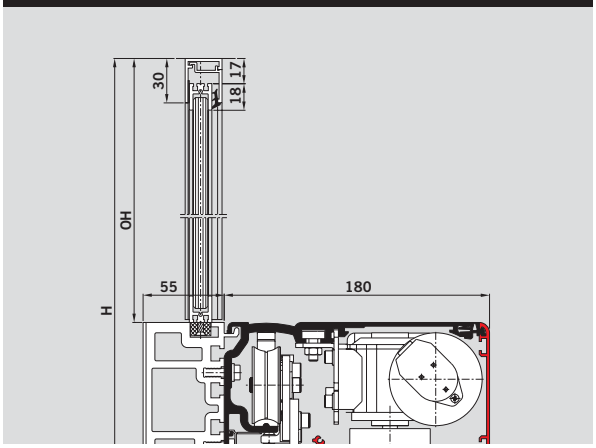
Protective panel see page 24

Clear passage height (LH)

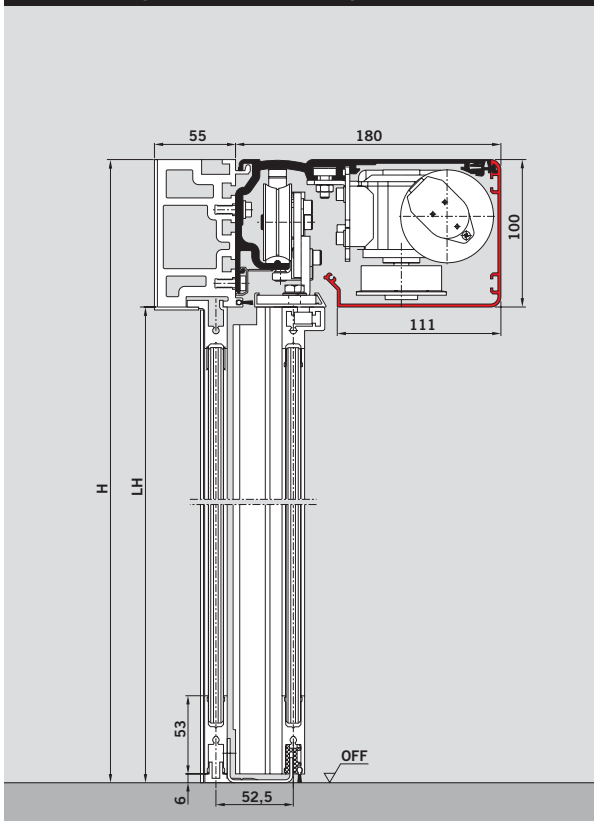
Determination of clear passage height LH (mm) depending on the clear passage width LW (mm) and the glazing:

see diagrams on page 26/27

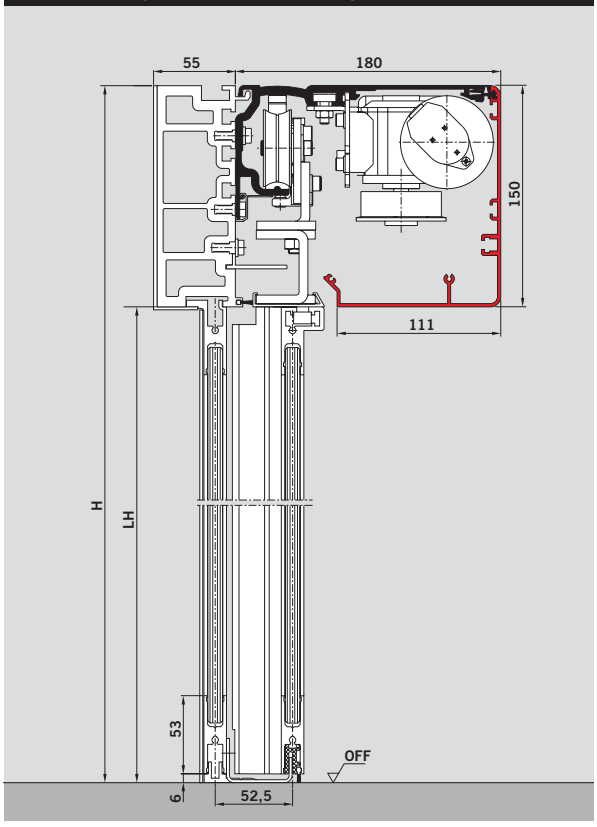
ST-G with fanlight



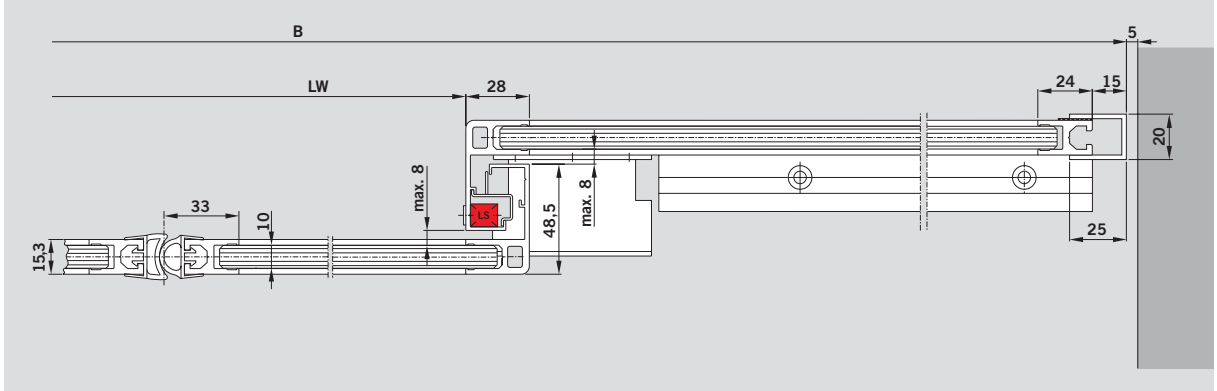
Corridor fixing with side screens, operator 100 mm



Corridor fixing with side screens, operator 150 mm



Horizontal section of connection profile



With all-glass profiles for G-Iso double-glazing

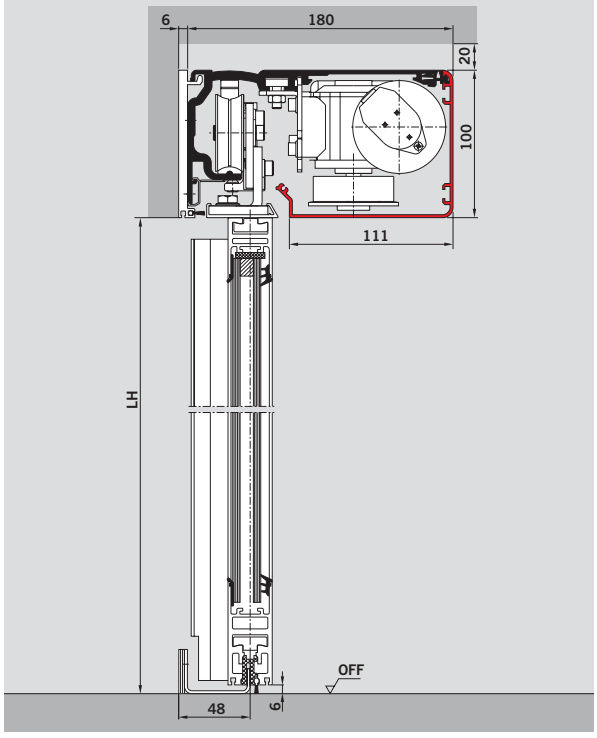
Features

- 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 inter-locking side seals and top and bottom seals

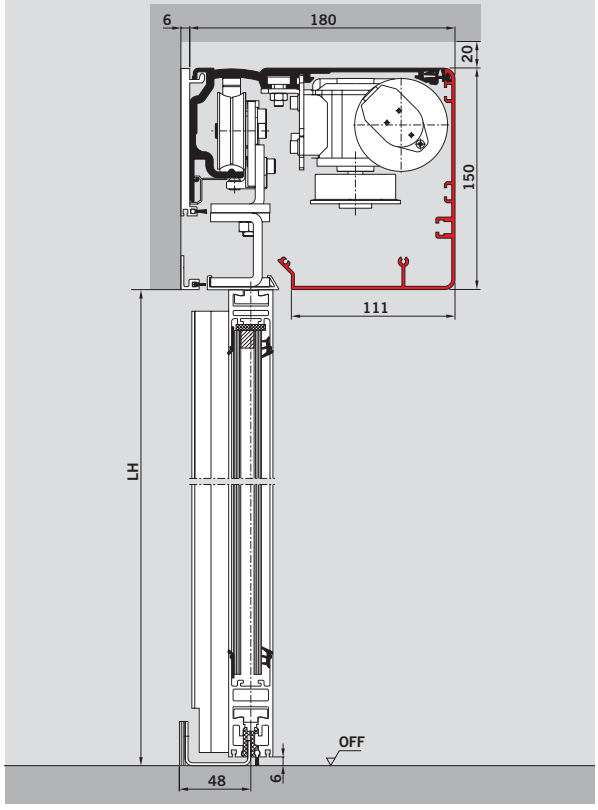
System dimensions and max. door panel weight

	Single-panel		Double-panel	
Operator	System width B	max. door panel weight	System width B	max. door panel weight
ES 200 *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	

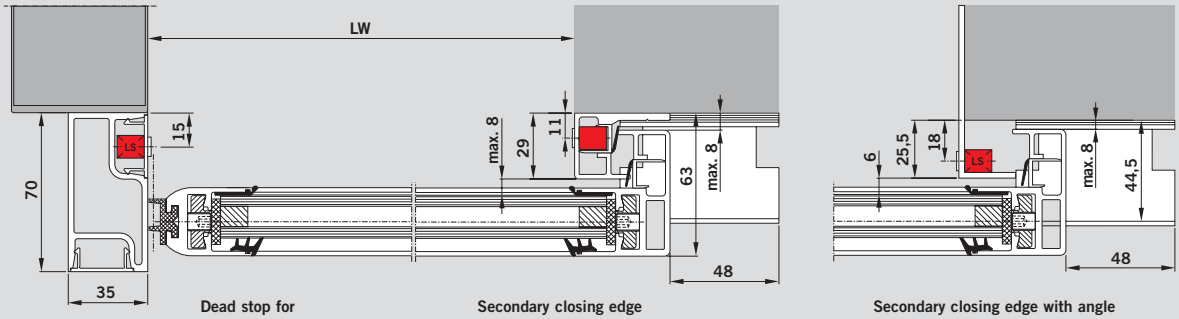
Wall / lintel fixing, operator 100 mm



Wall / lintel fixing, operator 150 mm



Horizontal section of connection profile



Dead stop for single-panel systems

Secondary closing edge with U-section profile

Secondary closing edge with angle profile for light barrier fixing

Panes

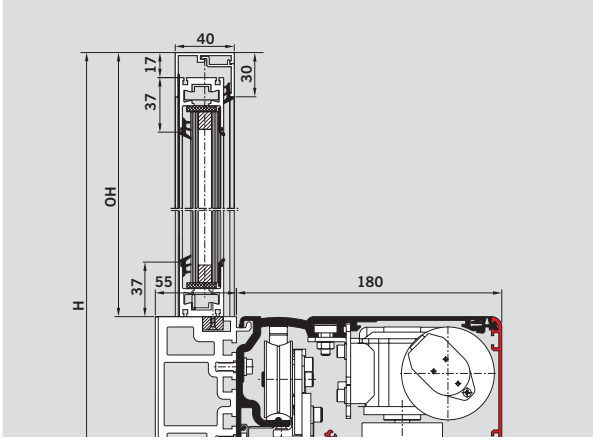
– Double-glazing 4/12/4 mm
– Double-glazing 5/10/5 mm
– Double-glazing 6/8/6 mm

Clear passage height (LH)

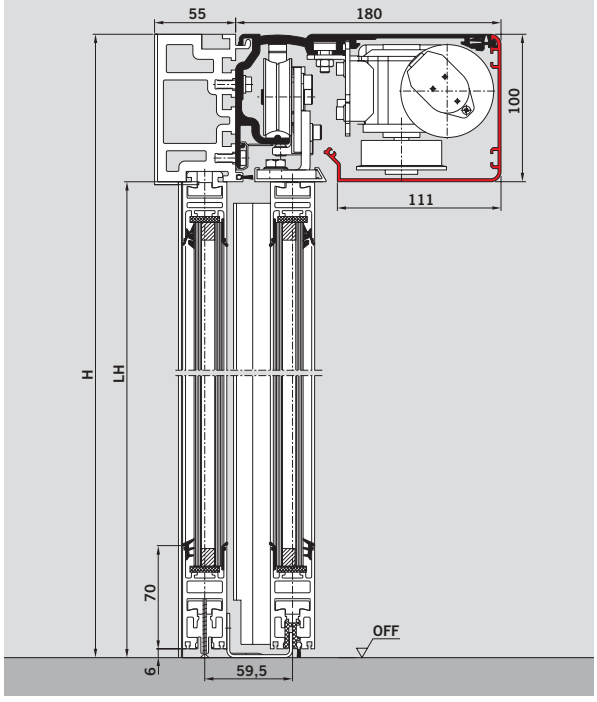
Determination of clear passage height LH (mm) depending on the clear passage width LW (mm) and the glazing:

see diagrams on page 26/27

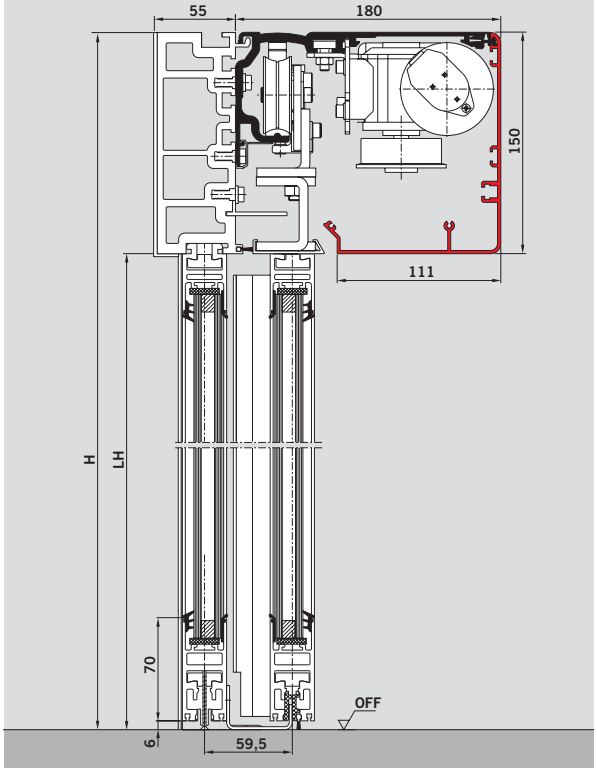
ST-G/Iso with fanlight



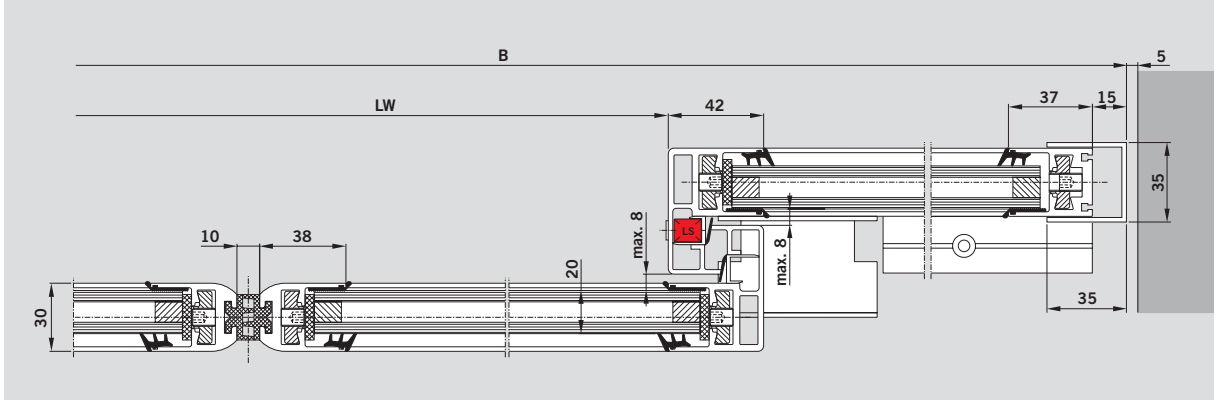
Corridor fixing with side screens, operator 100 mm



Corridor fixing with side screens, operator 150 mm



Horizontal section of connection profile



With R standard frame profiles

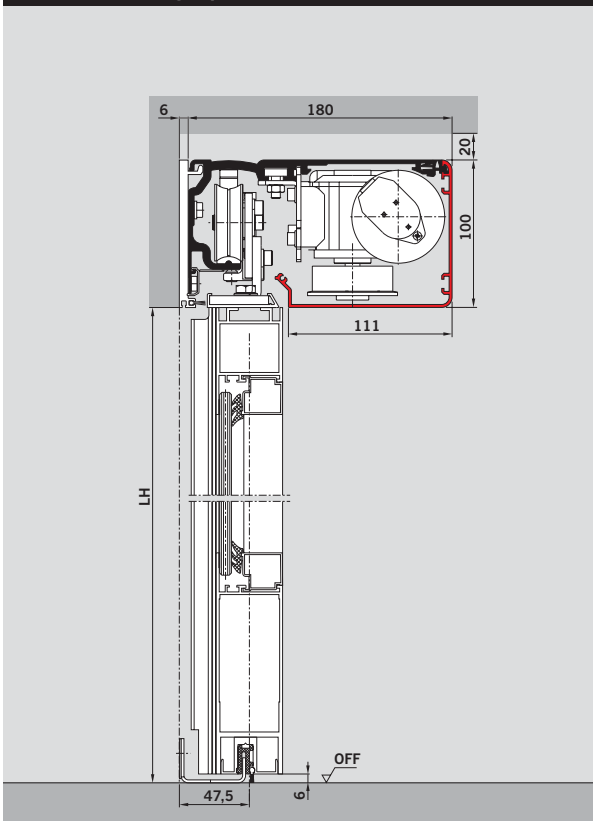
Features

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

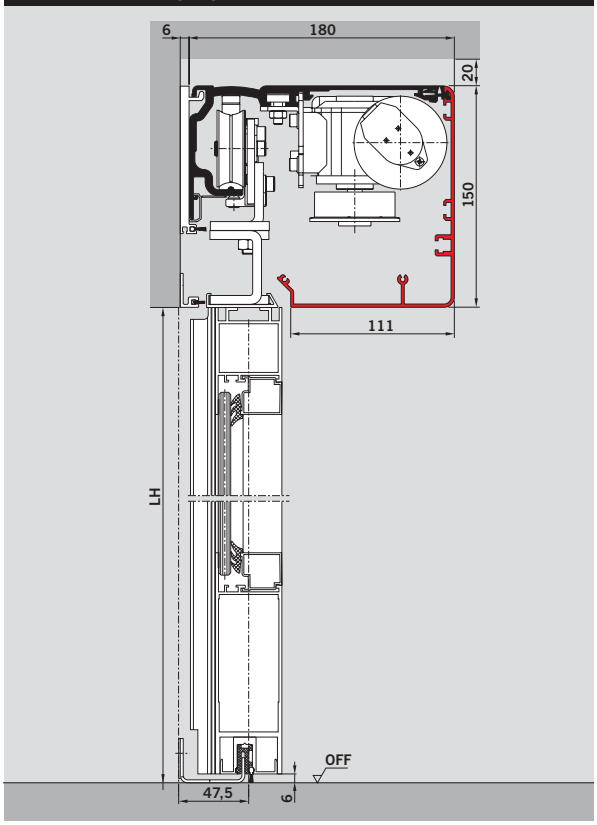
System dimensions and max. door panel weight

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	

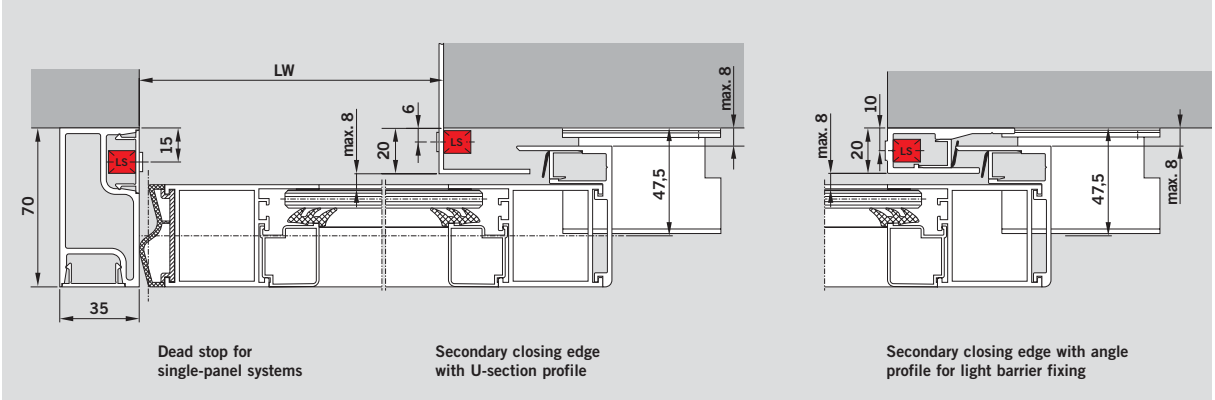
Wall / lintel fixing, operator 100 mm



Wall / lintel fixing, operator 150 mm



Horizontal section of connection profile



Dead stop for single-panel systems

Secondary closing edge with U-section profile

Secondary closing edge with angle profile for light barrier fixing

Panes

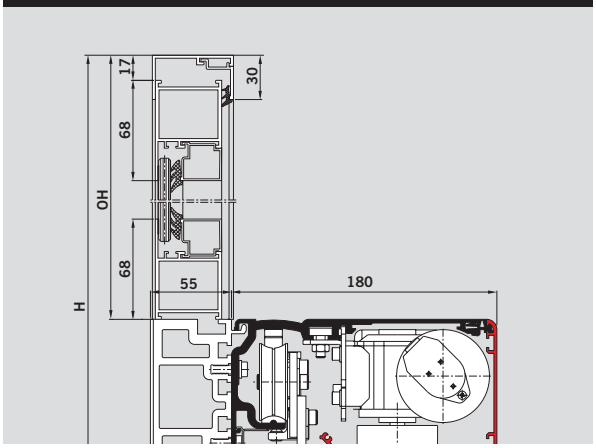
– Toughened glass (ESG) 6 mm	■
– Toughened glass (ESG) 8 mm	■
– Toughened glass (ESG) 10 mm	■
– Laminated safety glass (VSG) 6 mm	○
– Laminated safety glass (VSG) 8 mm	○
– Laminated safety glass (VSG) 9 mm, A1	■
– Laminated safety glass (VSG) 10 mm	○
– Double-glazing 5/14/5 mm	■
– Double-glazing 6/12/6 mm	■

■ alternatively ○ optional

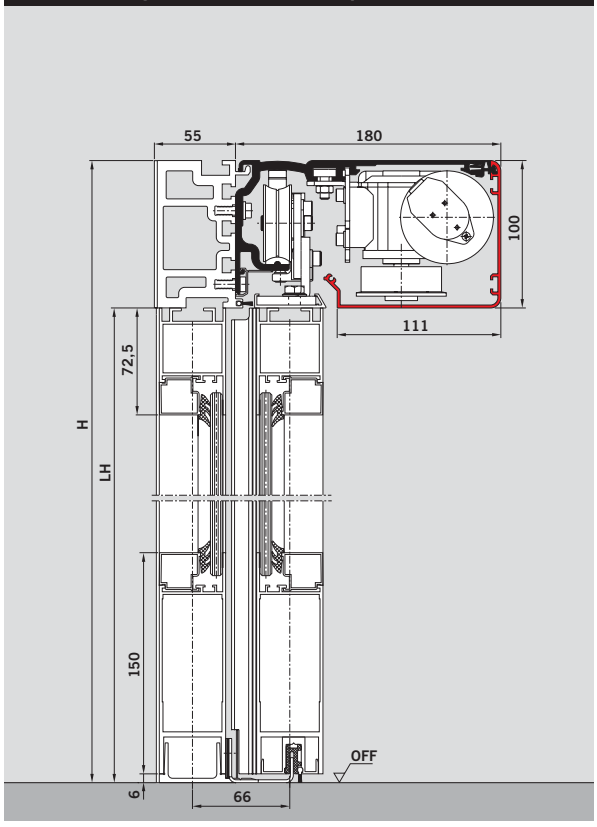
Clear passage height (LH)

Determination of clear passage height LH (mm) depending on the clear passage width LW (mm) and the glazing:
see diagrams on page 26/27

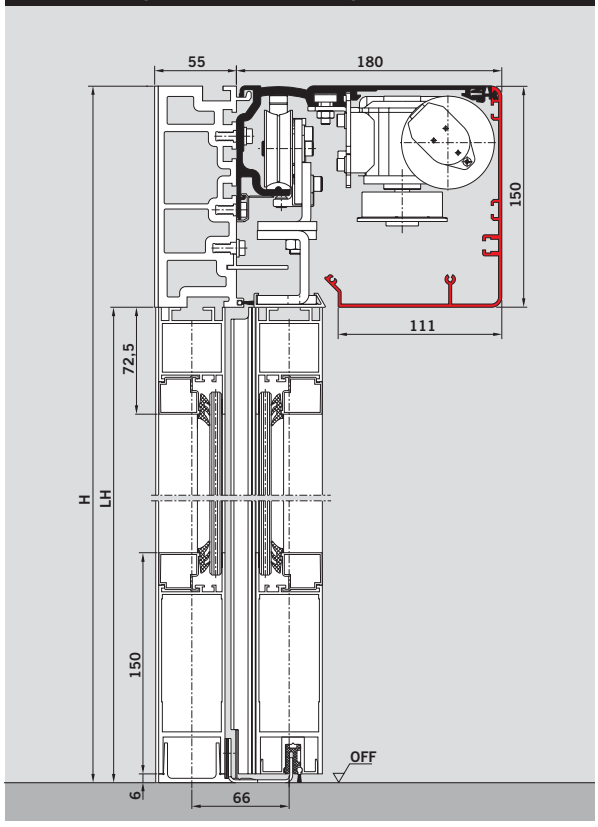
ST-R with fanlight



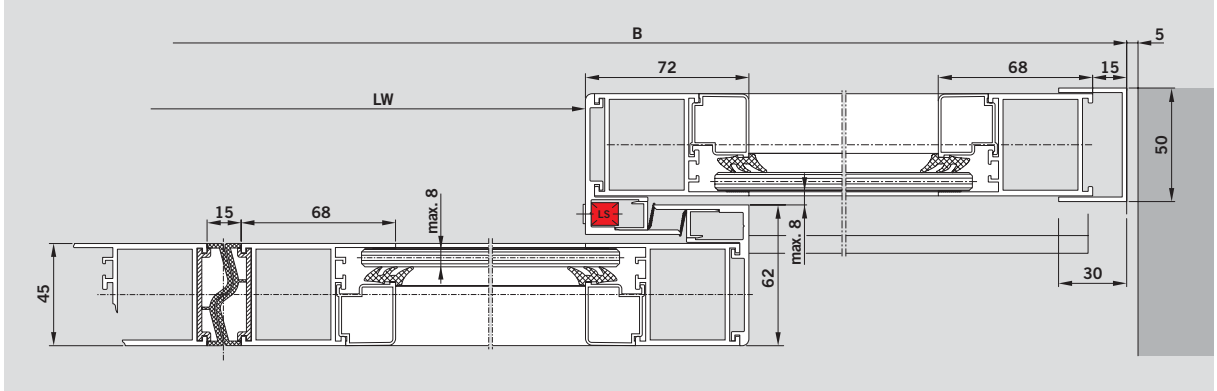
Corridor fixing with side screens, operator 100 mm



Corridor fixing with side screens, operator 150 mm



Horizontal section of connection profile



With R-Thermo thermal break profiles

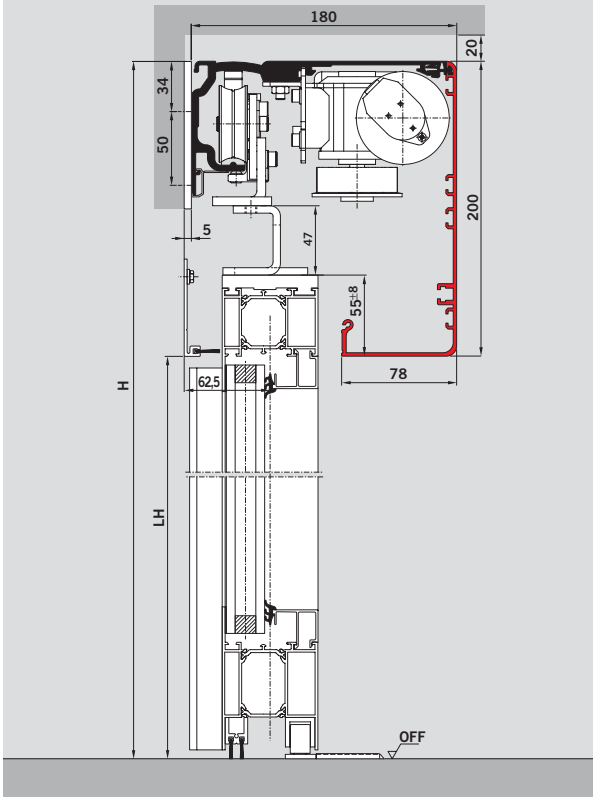
Features

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

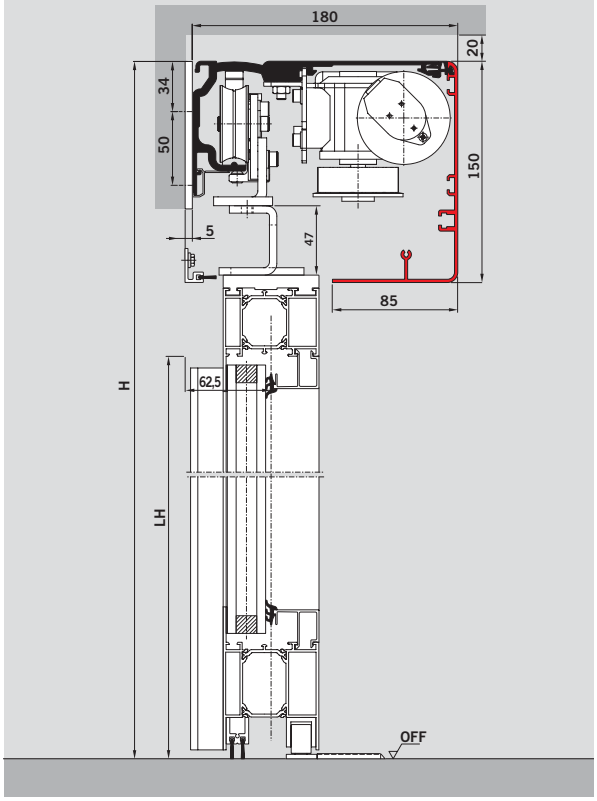
System dimensions and max. door panel weight

	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	

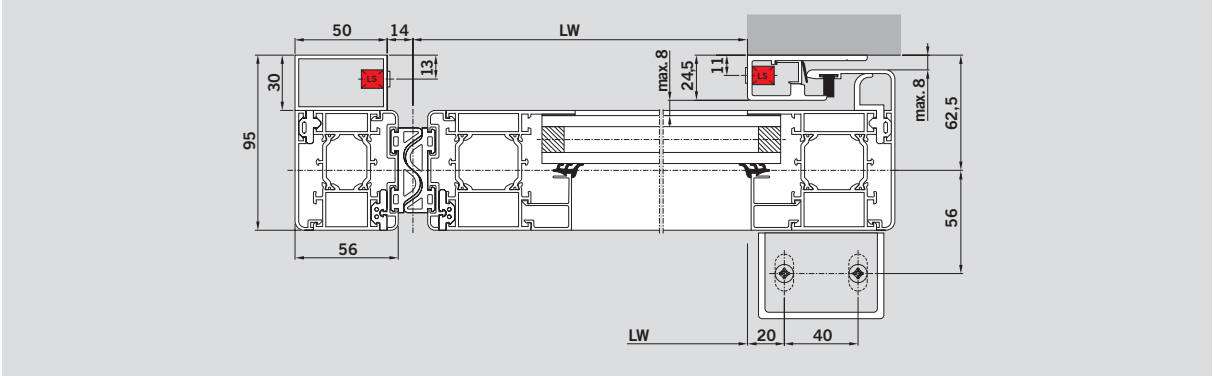
Wall / lintel fixing, operator 200 mm



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



Horizontal section of connection profile



Panes

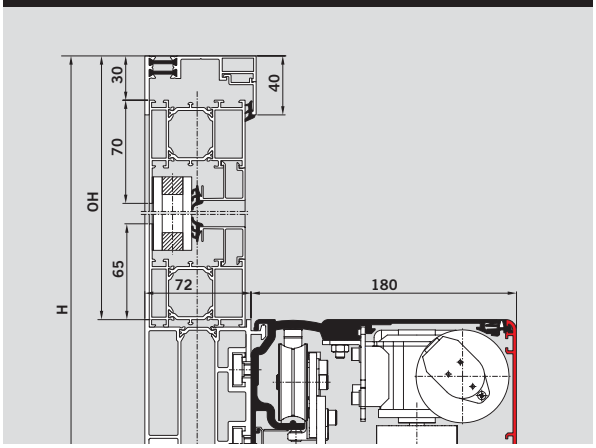
– Double-glazing 5/14/5 mm
– Double-glazing 6/12/6 mm

Clear passage height (LH)

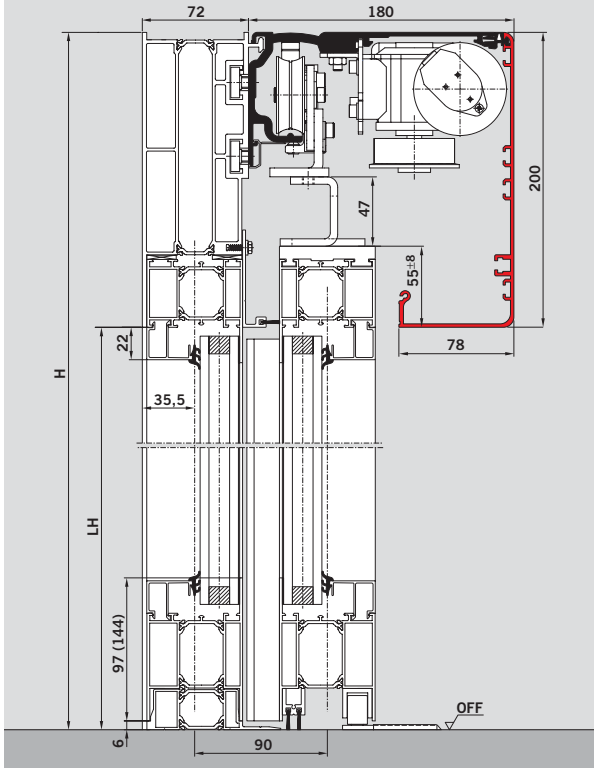
Determination of clear passage height LH (mm) depending on the clear passage width LW (mm) and the glazing:

see diagrams on page 26/27

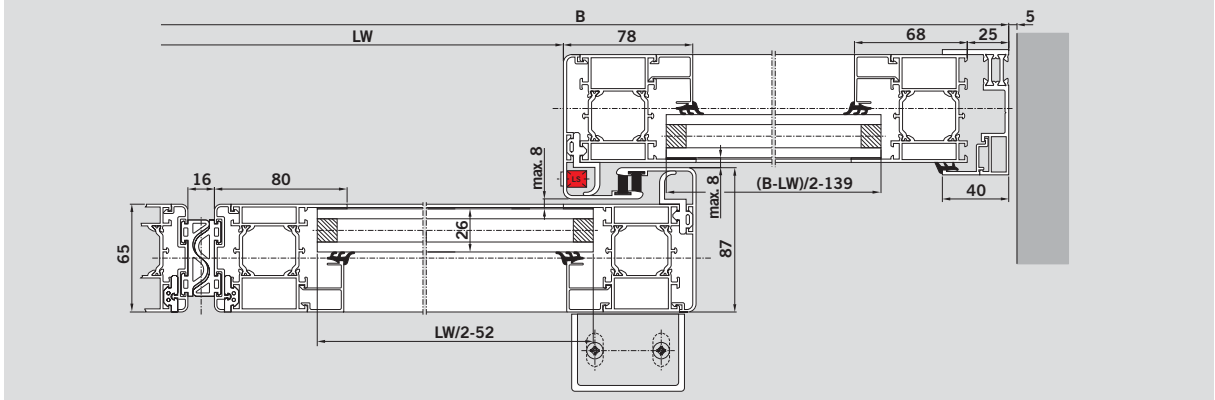
ST-R/Thermo with fanlight



Corridor fixing with side screens, operator 200 mm



Horizontal section of connection profile



With MANET single-point fixings

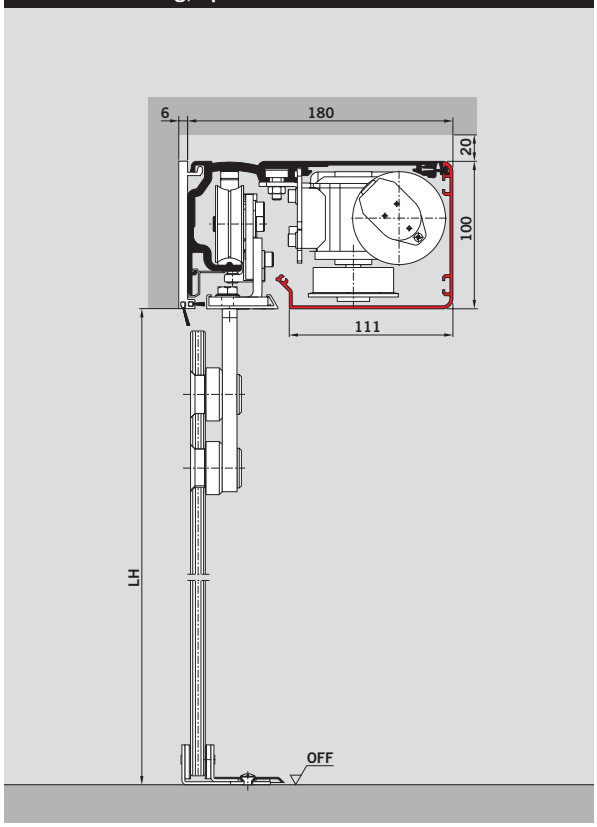
Features

- 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

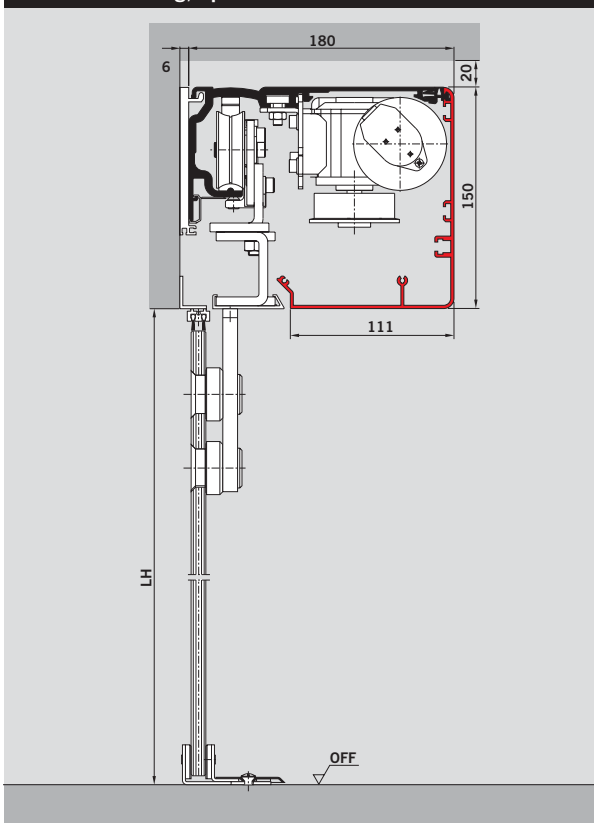
System dimensions and max. door panel weight

	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	

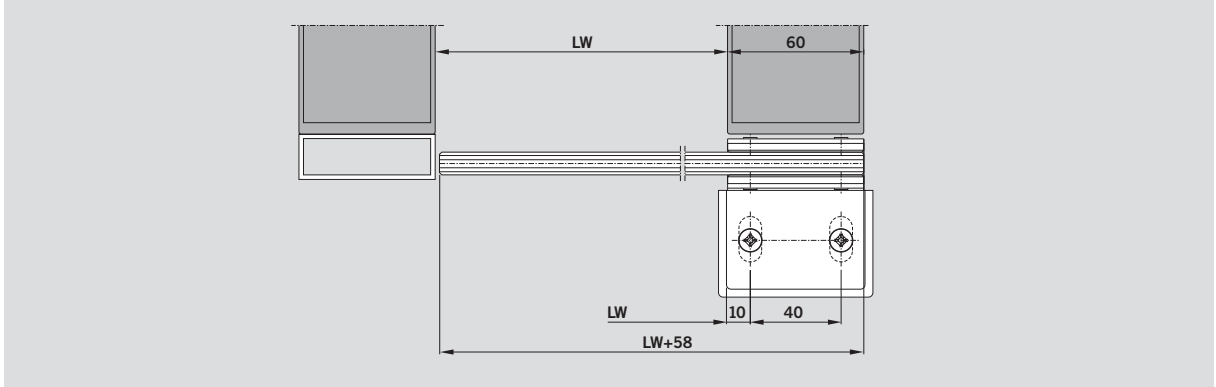
Wall / lintel fixing, operator 100 mm



Wall / lintel fixing, operator 150 mm



Horizontal section of connection profile



Panes

– Toughened glass (ESG) 10 mm

Clear passage height (LH)

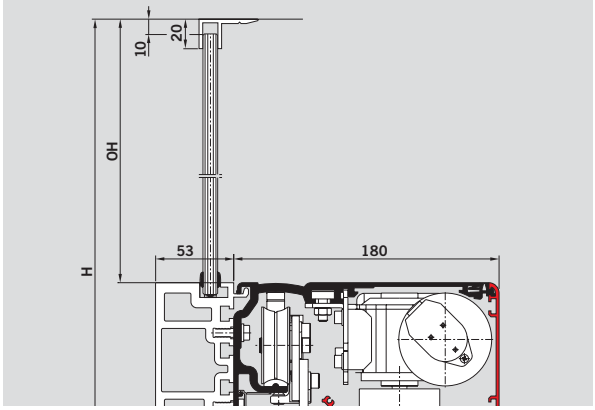
Determination of clear passage height LH (mm) depending on the clear passage width LW (mm) and the glazing: see diagrams on page 26/27.

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

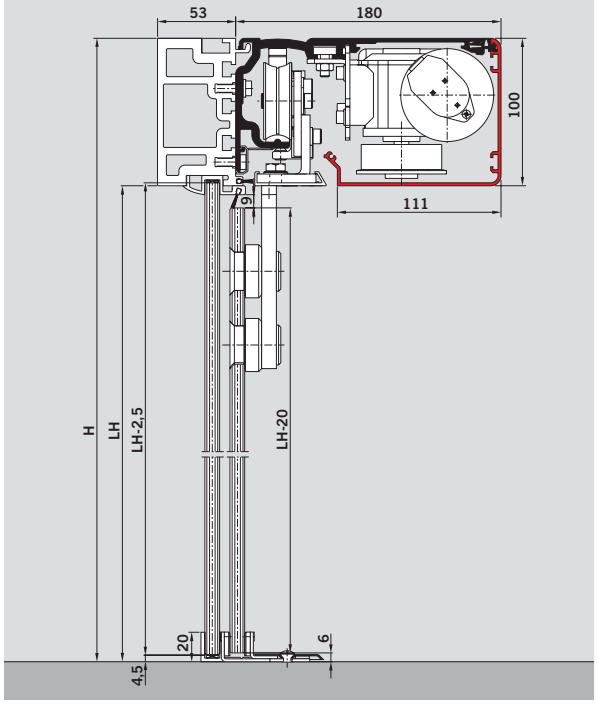
Single-panel max. clear passage width (LW) = 1600 mm, clear passage height (LH) = 2500 mm

Double-panel max. clear passage width (LW) = 2000 mm, clear passage height (LH) = 3000 mm.

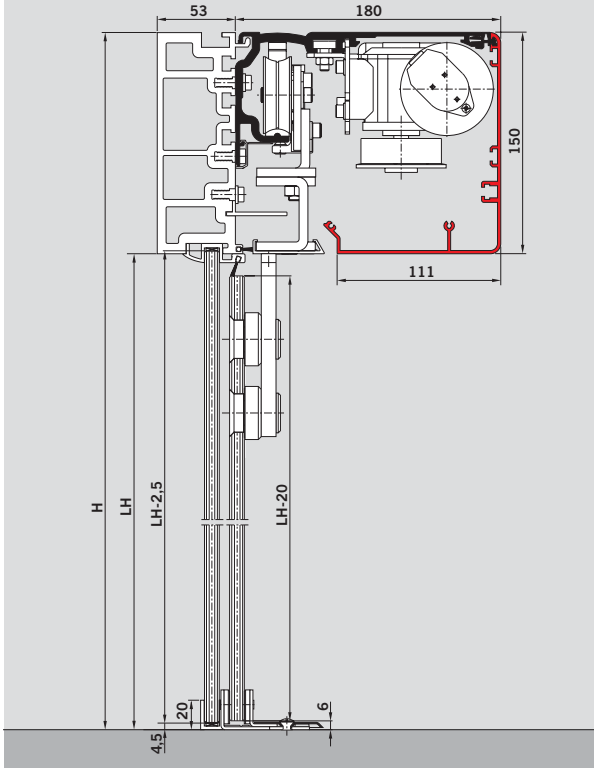
ST-MANET with fanlight



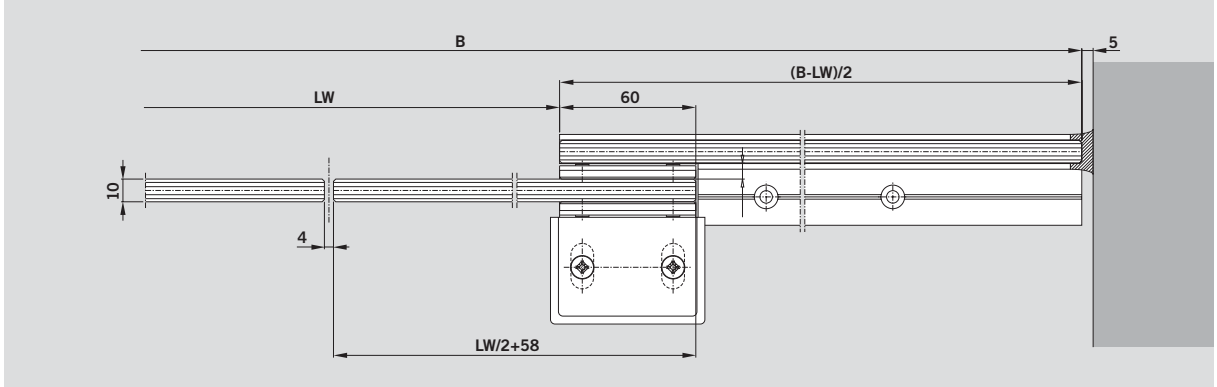
Corridor fixing with side screens, operator 100 mm



Corridor fixing with side screens, operator 150 mm



Horizontal section of connection profile



Door parameter	ES 200 T Easy	ES 200 T	ES 200 T-2D
Single-panel sliding door – Clear passage width LW* – max. door panel weight	 800 – 2400 mm 2 x 50 kg	 800 – 2400 mm 2 x 75 kg	 1000 – 2400 mm 2 x 65 kg
4-panel sliding door – Clear passage width LW* – max. door panel weight	 1400 – 4000 mm 4 x 43 kg	 1400 – 4000 mm 4 x 75 kg	 1400 – 4000 mm 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 all-glass profile All-glass profile with double-glazing G-Iso standard frame profile R	 ● ● ●	 ● ● ●	 ● ● ●
Elevation height and depth of operator 100 mm x 180 mm 150 mm x 180 mm	 ● ●	 ● ●	 ● ●
Recessed installation with floor guide rail (standard)	●	●	●
Surface 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 installation 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	●	●	●

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 pushbutton	●	●	●
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 control	–	●	●
Door status contact (triple)	–	●	●
Monitoring of main closing edge and secondary closing edges	– / –	● / ●	● / –
Panic closing function	–	●	●
Bell contact	–	●	●
Airlock control	–	●	–
Synchronous operation	–	●	●

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	–	○	○

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

Fanlights and static side screens are generally available as accessories.

● standard

○ optional

With G all-glass profiles

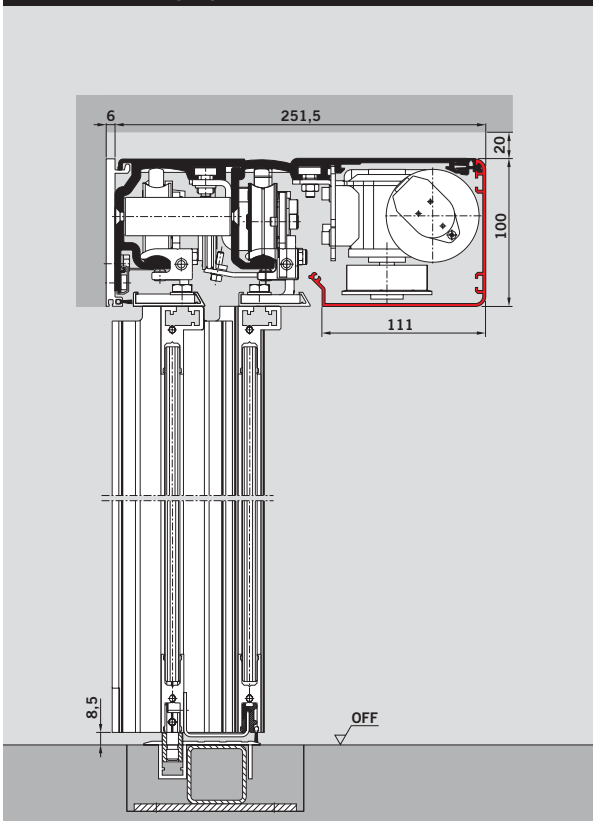
Features

- Elegant all-glass design
- High stability and torsional rigidity
- Draught protection thanks to side seals

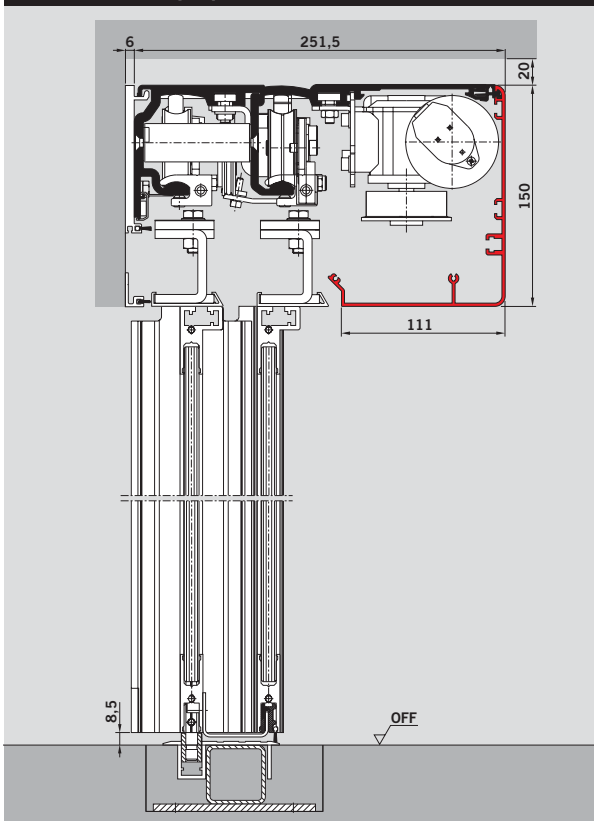
System dimensions and max. door panel weight

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

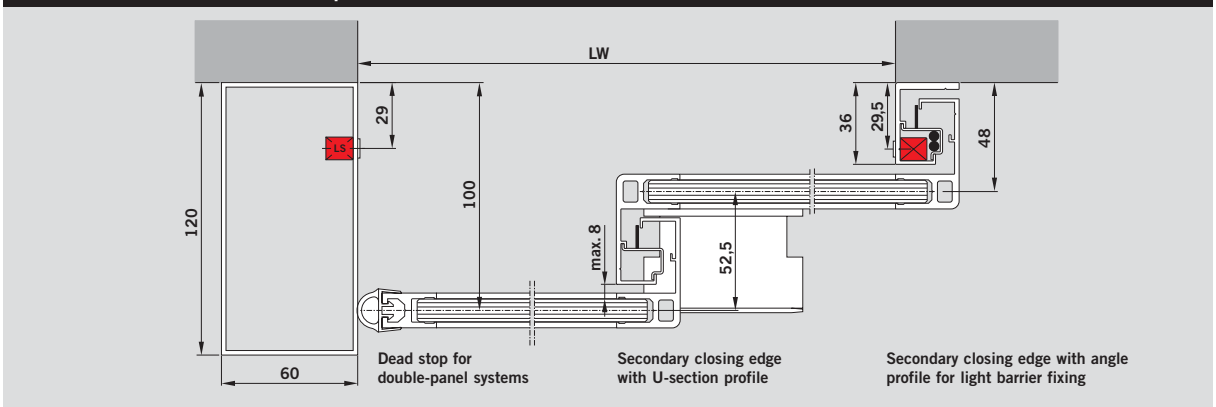
Wall / lintel fixing, operator 100 mm



Wall / lintel fixing, operator 150 mm



Horizontal section of connection profile



Panes

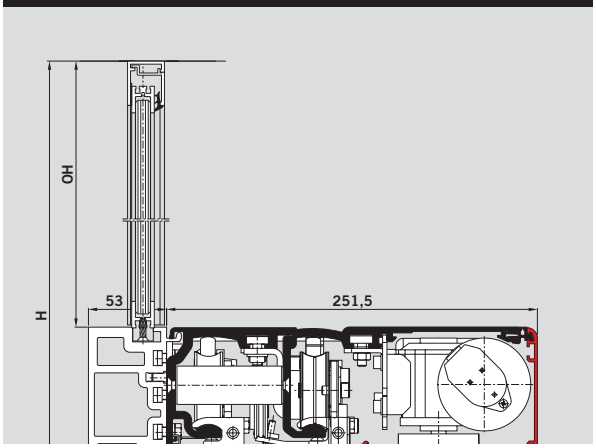
– Single-pane toughened glass (ESG) 10 mm
– Laminated safety glass (VSG) 9.6 mm made from single-pane toughened glass (ESG)
– Special glazing

Clear passage height (LH)

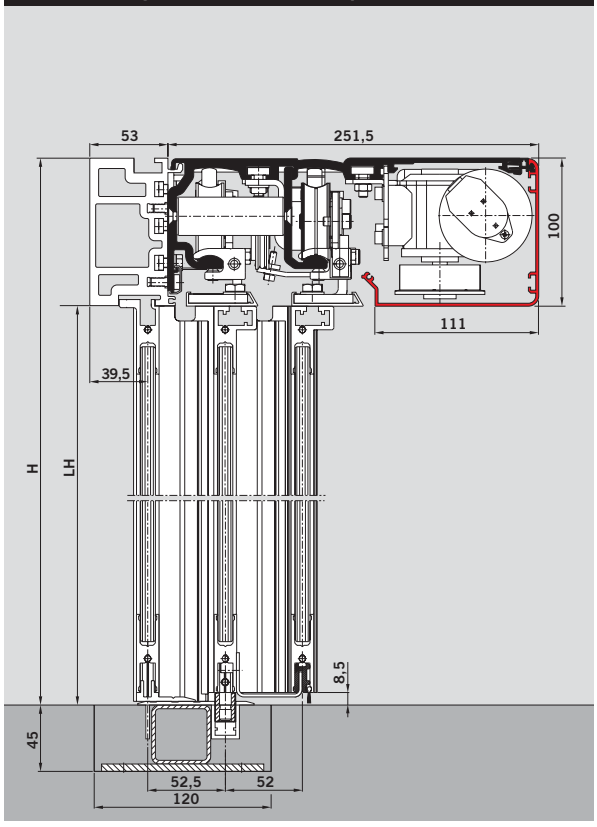
Determination of clear passage height LH (mm) depending on the clear passage width LW (mm) and the glazing:

see diagrams on page 26/27

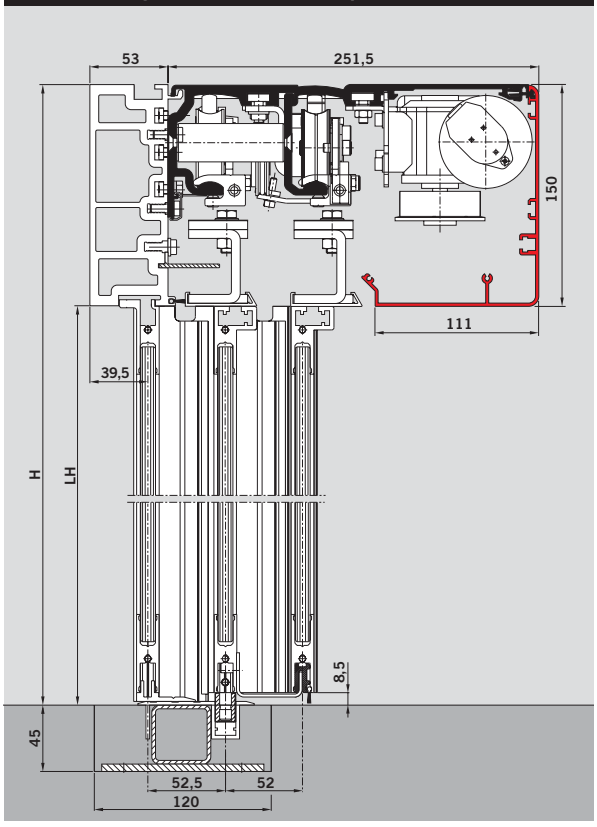
TST-G with fanlight



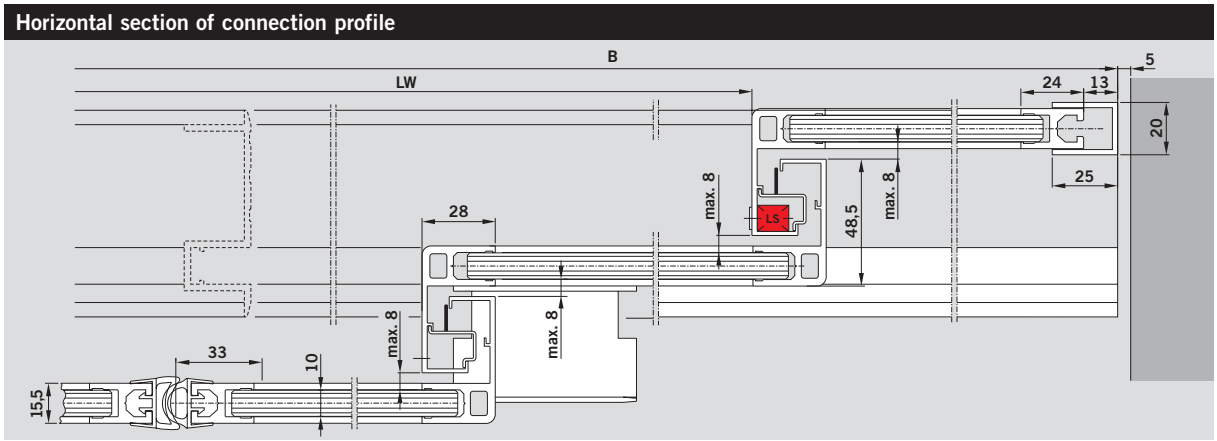
Corridor fixing with side screens, operator 100 mm



Corridor fixing with side screens, operator 150 mm



Horizontal section of connection profile



With all-glass profiles for G-Iso double-glazing

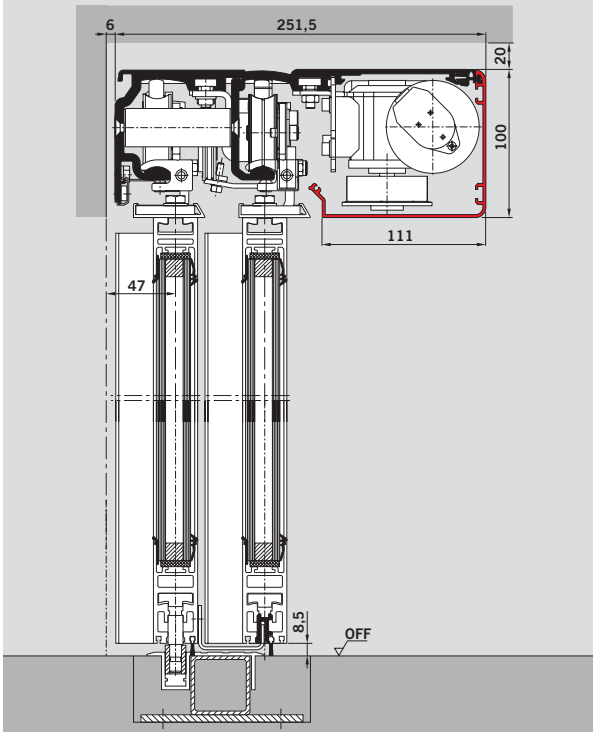
Features

- 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

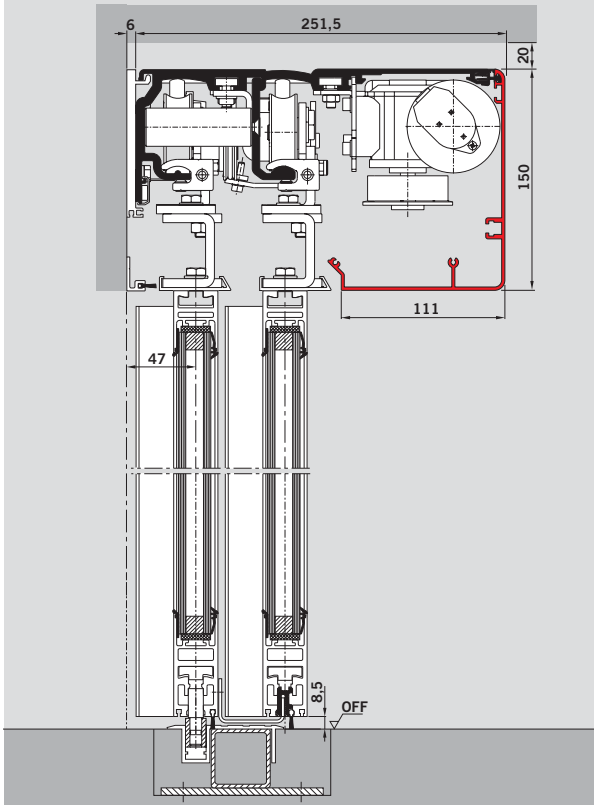
System dimensions and max. door panel weight

	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

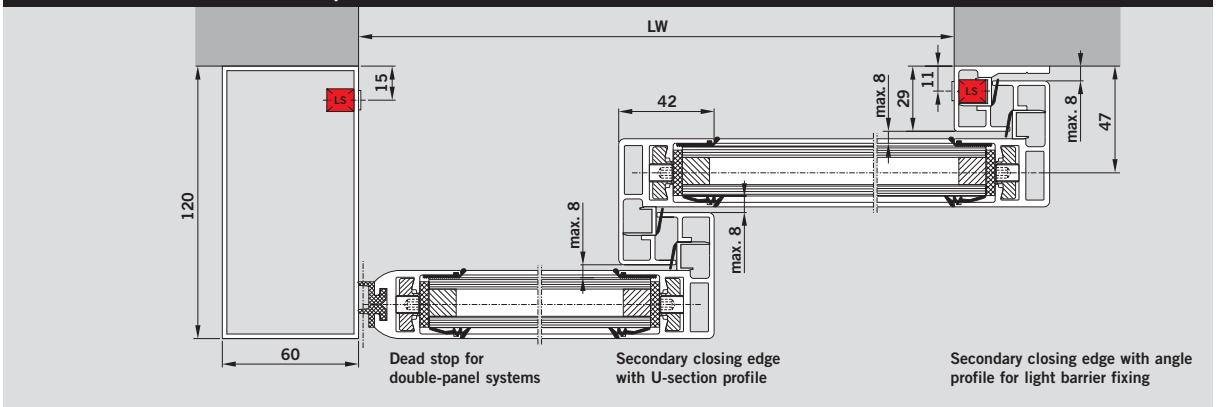
Wall / lintel fixing, operator 100 mm



Wall / lintel fixing, operator 150 mm



Horizontal section of connection profile



Panes

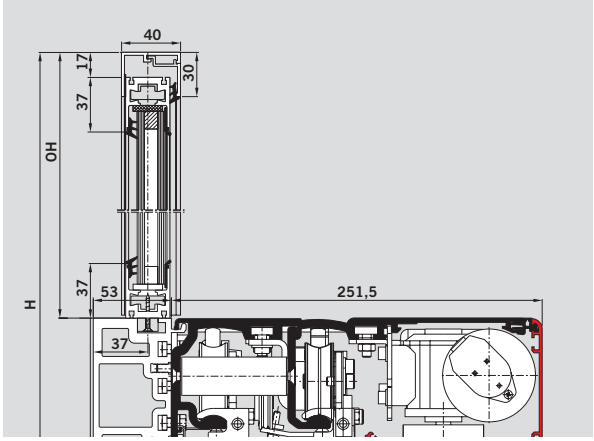
– Double-glazing 4/12/4 mm
– Double-glazing 5/10/5 mm
– Double-glazing 6/8/6 mm

Clear passage height (LH)

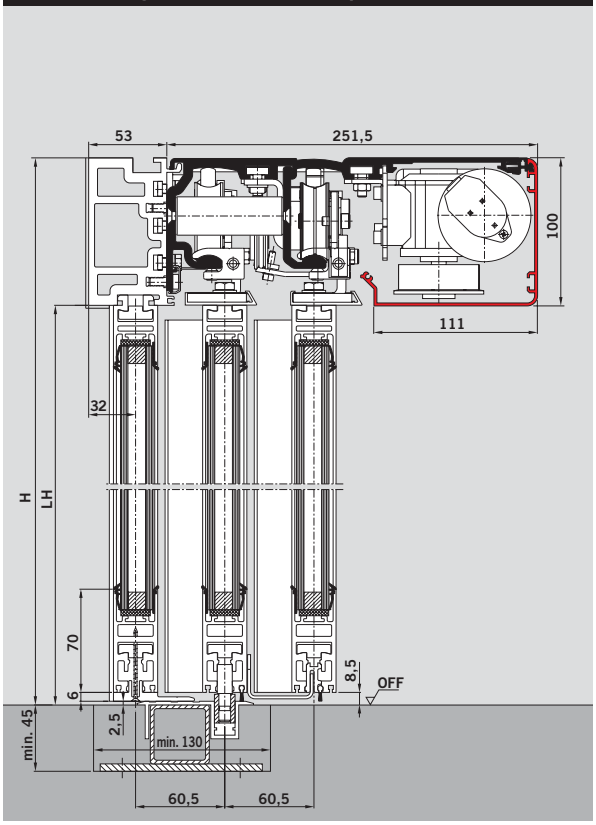
Determination of clear passage height LH (mm) depending on the clear passage width LW (mm) and the glazing:

see diagrams on page 26/27

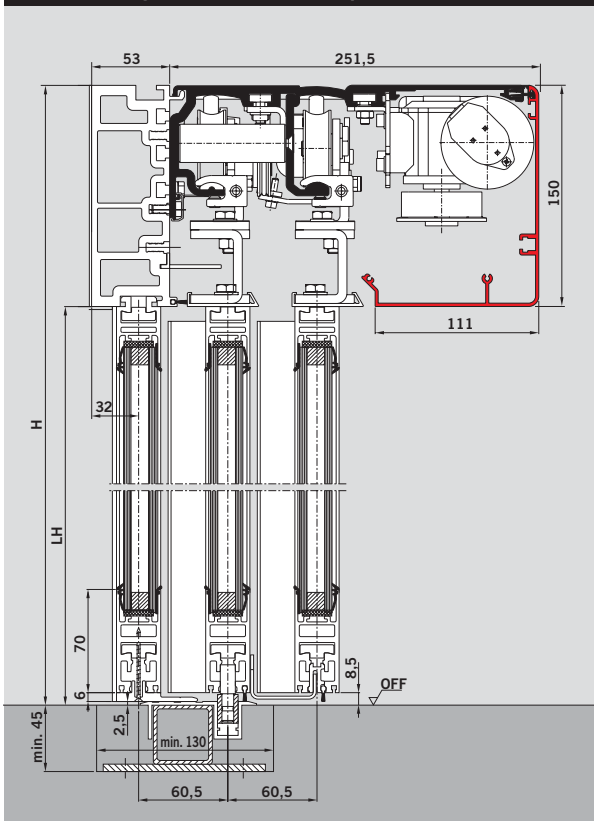
TST-G/Iso with fanlight



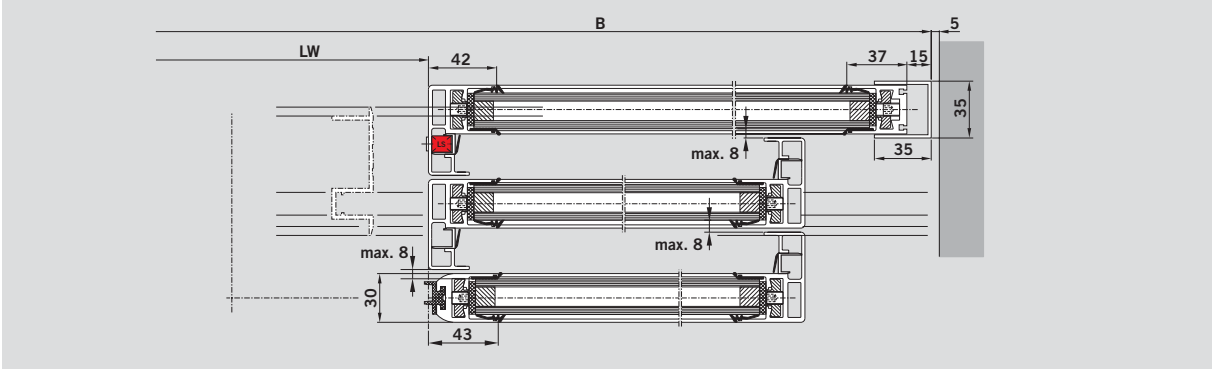
Corridor fixing with side screens, operator 100 mm



Corridor fixing with side screens, operator 150 mm



Horizontal section of connection profile



With R standard frame profiles

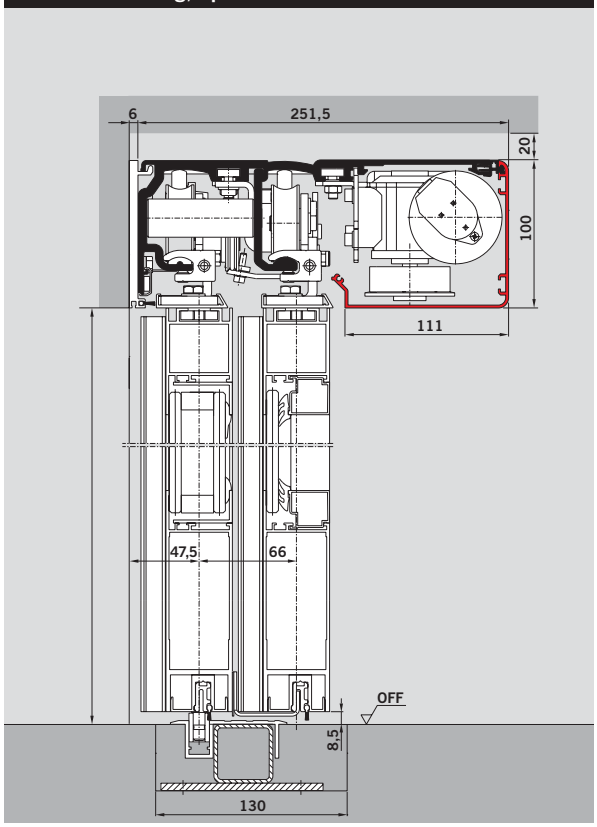
Features

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

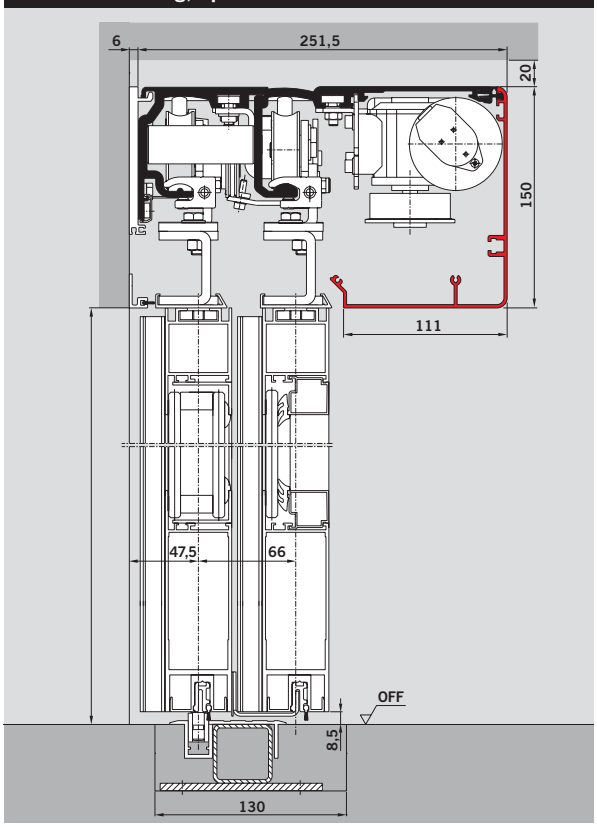
System dimensions and max. door panel weight

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 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

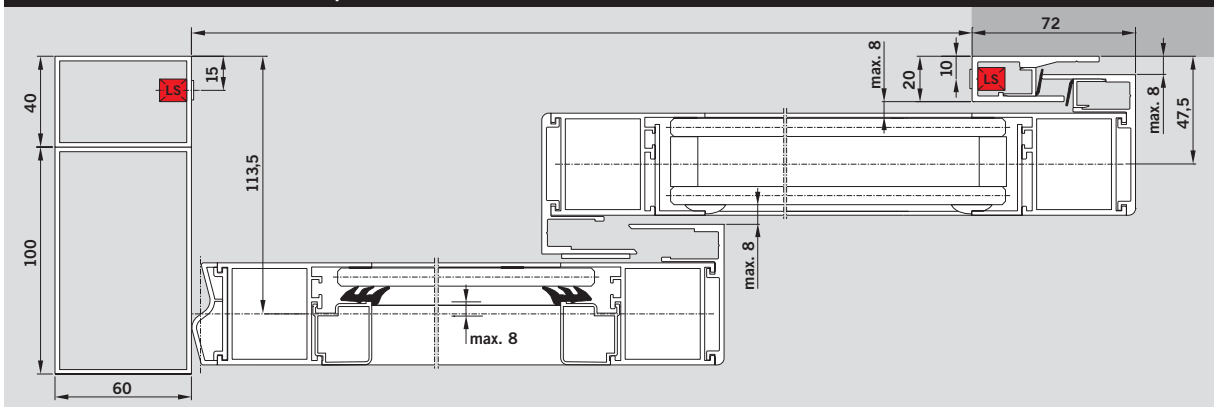
Wall / lintel fixing, operator 100 mm



Wall / lintel fixing, operator 150 mm



Horizontal section of connection profile



Panes

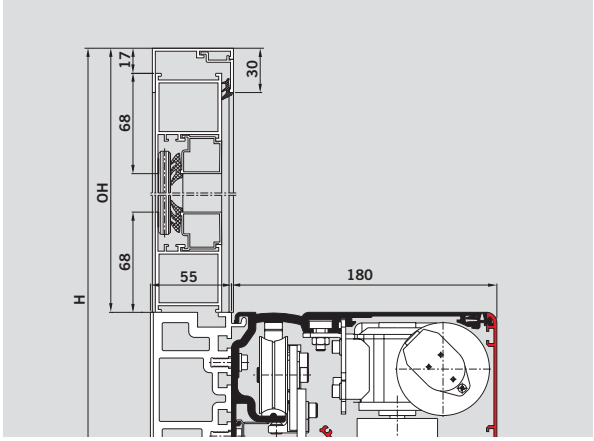
– Toughened glass (ESG) 6 mm	■
– Toughened glass (ESG) 8 mm	■
– Toughened glass (ESG) 10 mm	■
– Laminated safety glass (VSG) 6 mm	○
– Laminated safety glass (VSG) 8 mm	○
– Laminated safety glass (VSG) 9 mm, A1	■
– Laminated safety glass (VSG) 10 mm	○
– Double-glazing 5/14/5 mm	■
– Double-glazing 6/12/6 mm	■

■ alternatively ○ optional

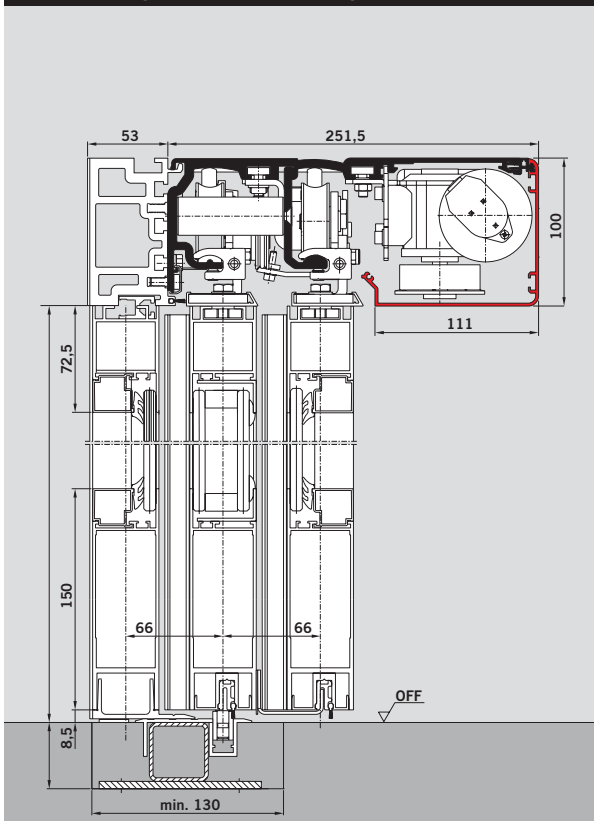
Clear passage height (LH)

Determination of clear passage height LH (mm) depending on the clear passage width LW (mm) and the glazing:
see diagrams on page 26/27

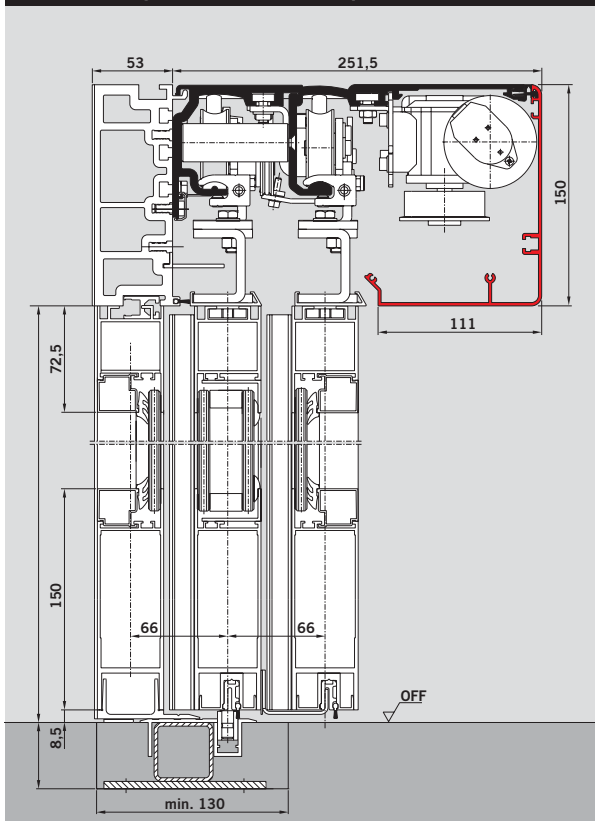
TST-R with fanlight



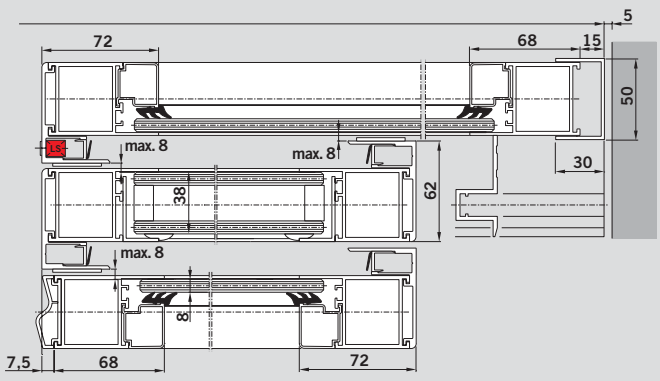
Corridor fixing with side screens, operator 100 mm



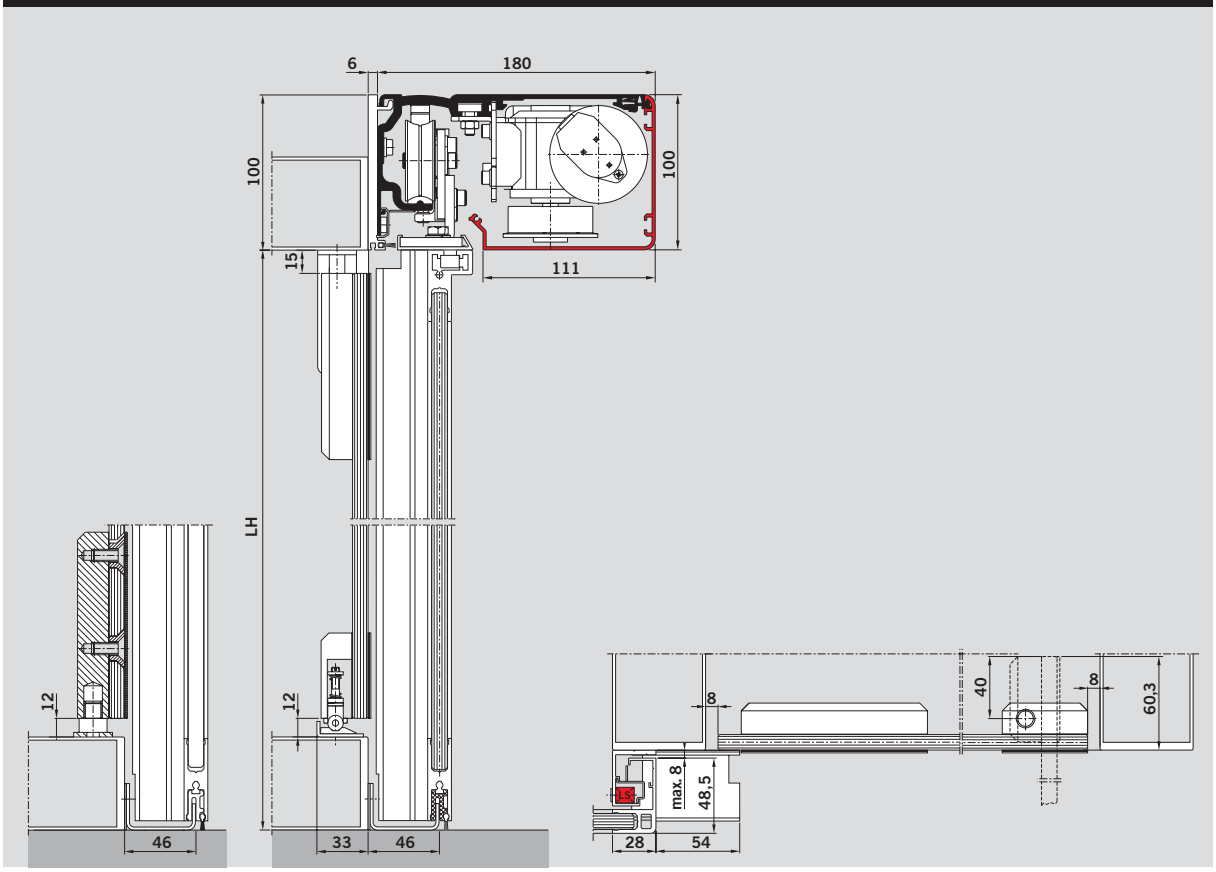
Corridor fixing with side screens, operator 150 mm



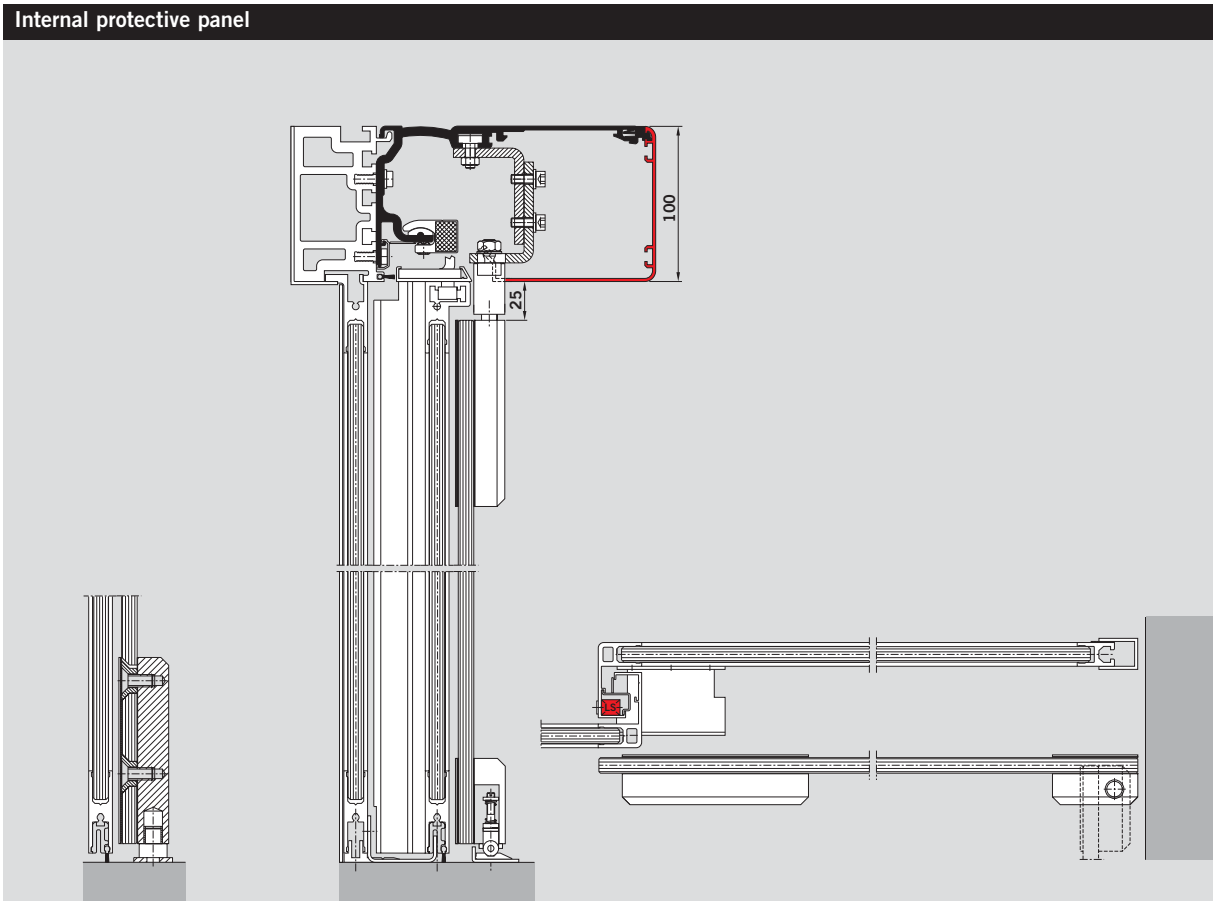
Horizontal section of connection profile



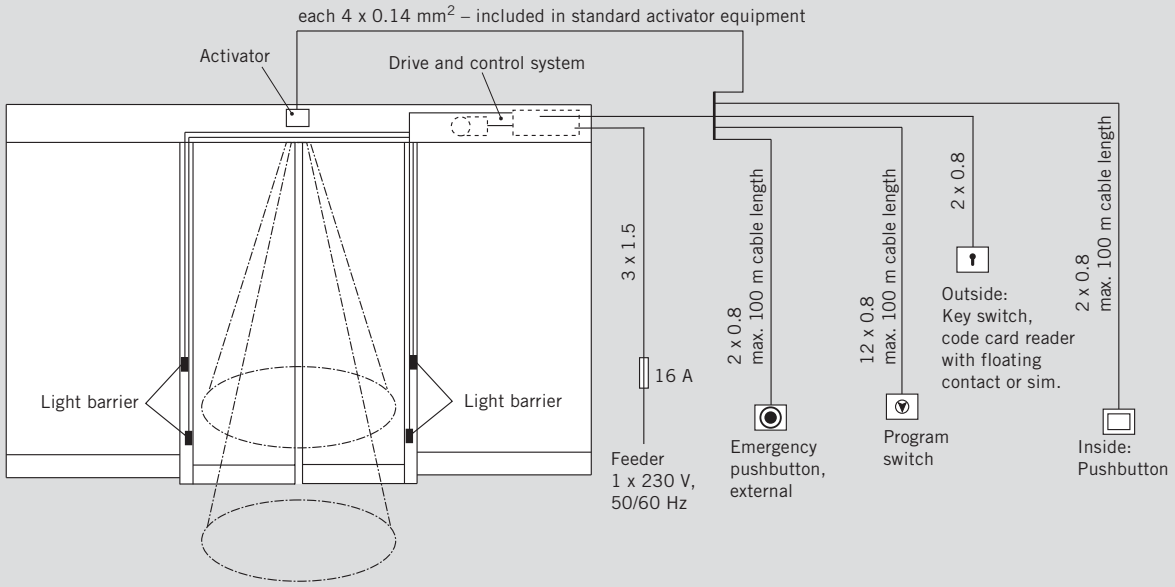
Protective panel latch – post



Internal protective panel



Connections



Determination of door panel size

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

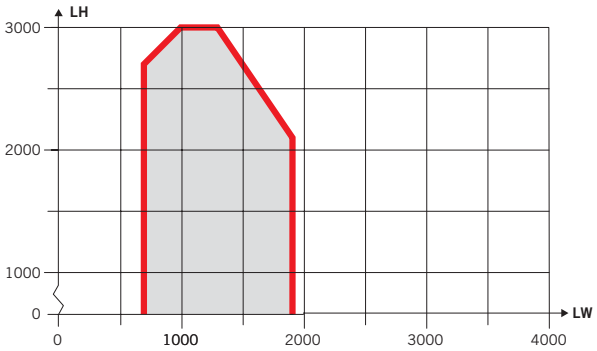
The maximum door panel weight of the relevant operators may not be exceeded. In areas with unfavourable wind conditions, smaller door sizes are to be installed.

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

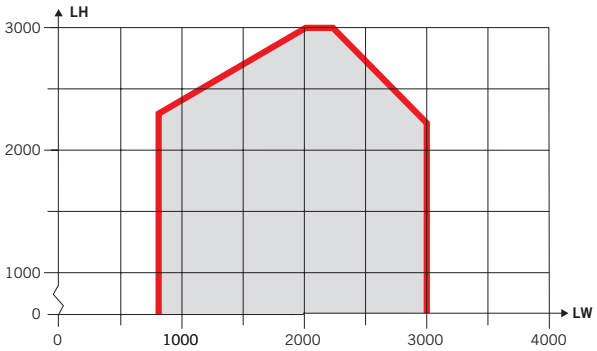
Higher clear passage heights (LH) on demand.

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) = 3000 mm.

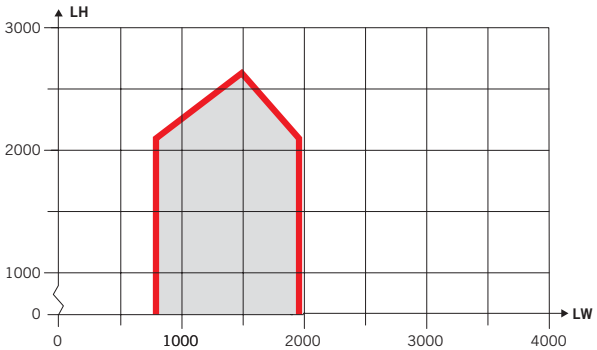
ST-ES 200 Easy single-panel



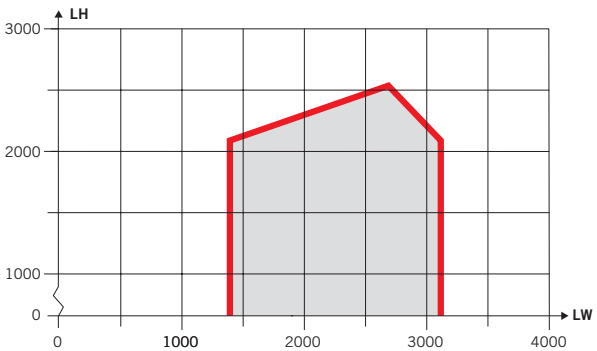
ST-ES 200 Easy double-panel



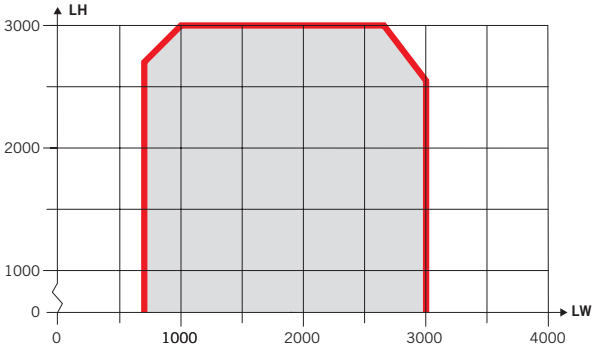
TST-ES 200 Easy double-panel



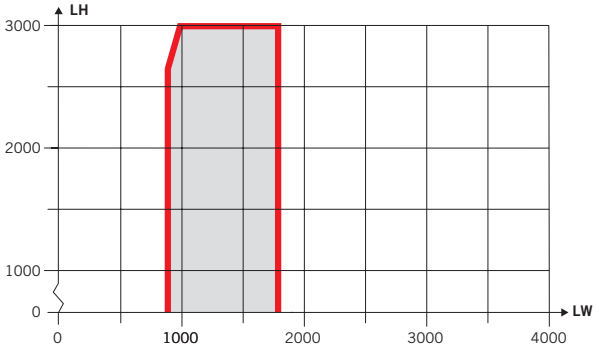
TST-ES 200 Easy 4-panel



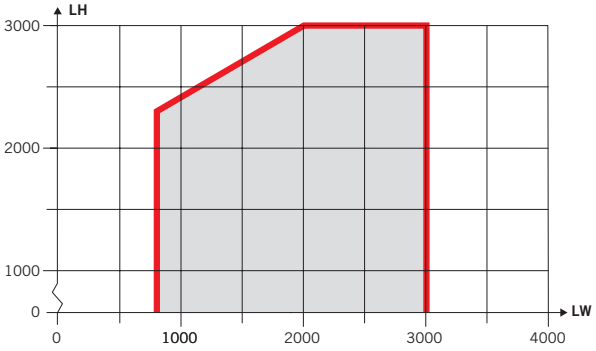
ST-ES 200 single-panel



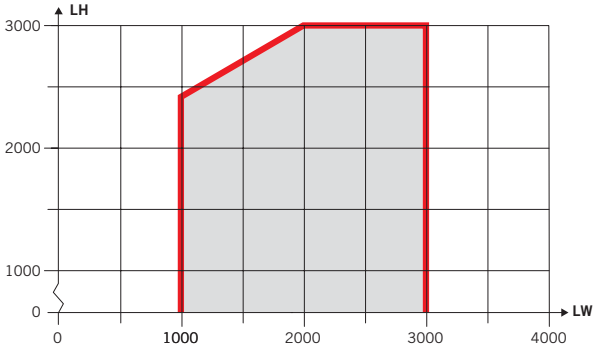
ST-ES 200 2D single-panel



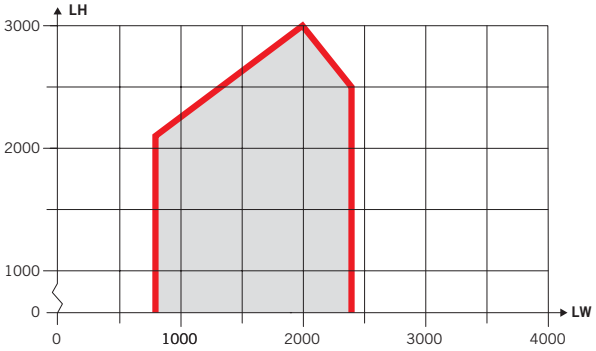
ST-ES 200 double-panel



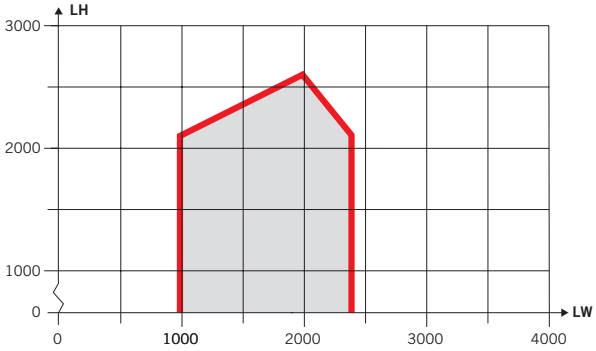
ST-ES 200 2D double-panel



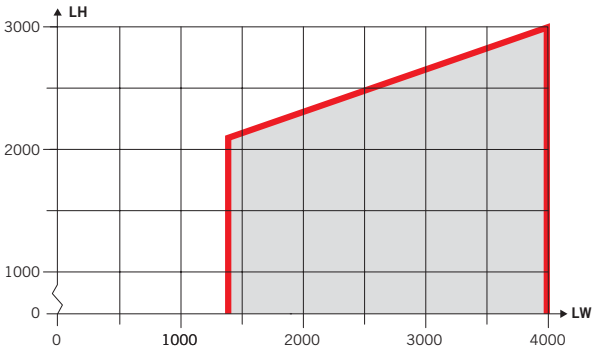
TST-ES 200 double-panel



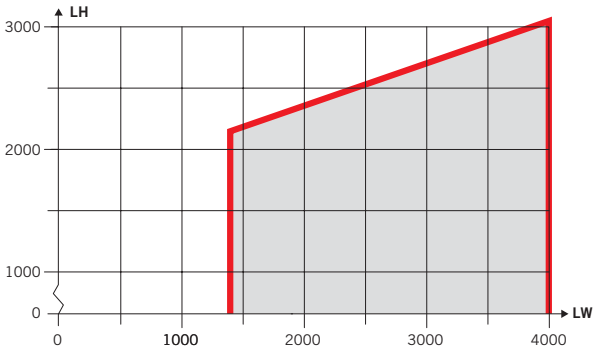
TST-ES 200 2D double-panel



TST-ES 200 4-panel



TST-ES 200 2D 4-panel



System accessories

Radar motion detectors

- Directional sensitive – standard version
- Directional non-sensitive
- Radar detector for any combination
- No effect on pacemakers due to the low output, approx. 2 mW

Program switch to select the operating mode of DORMA automatic doors.

- Up to 5 different functions:
  Off, Automatic, Exit, Partial opening, Permanent open
- Electronic program switch in System 55 design for the highest aesthetic demands
- Material variants for frames from polished steel, abrasive blasted silk-mat stainless steel, aluminium and brass to glass, ebony or terracotta
- Also lockable by key or electronic code
- For internal or external installation as well as flush-mounted or surface-type installation

Program switch EPS-S
System 55

Program switch PG-S2

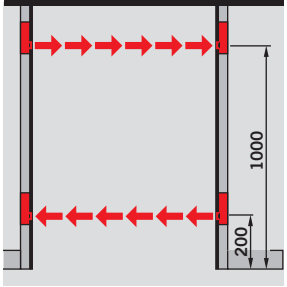
Emergency pushbutton, external
System 55

Pushbuttons and switches: Electric, pneumatic or radio remote.

- To open and close DORMA automatic doors
- Via key or manually by switch or momentary contact
- For a variety of installation situations: flush or surface mounted or in the door frame

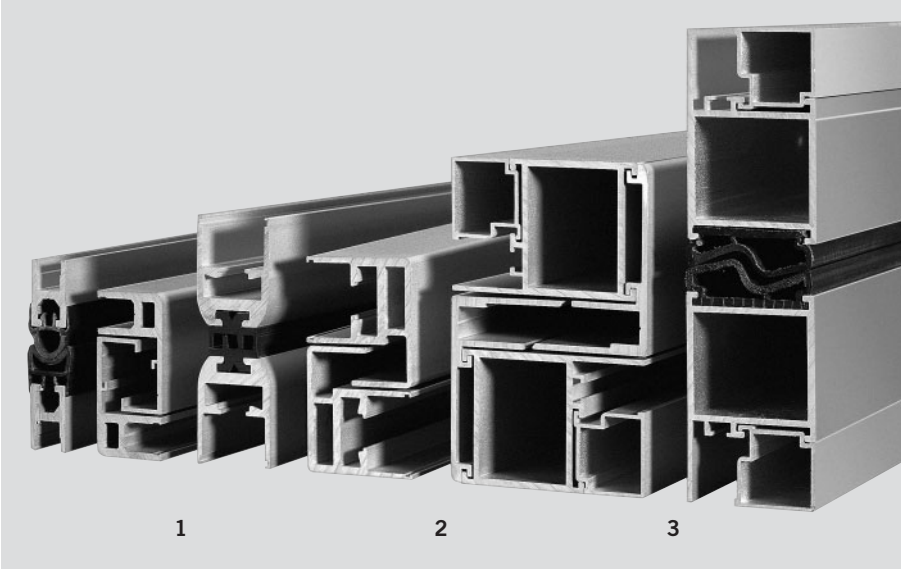
The widely diversified automatic system accessories from DORMA are complemented by further components which are specially matched to various safety measures.

Light barriers



- According to the reflex-light principle
- Additional protection of closing sweep, installation 200 and 1000 mm above floor level

Profiles



1 All-glass profile system
DORMA ST-G, TST-G

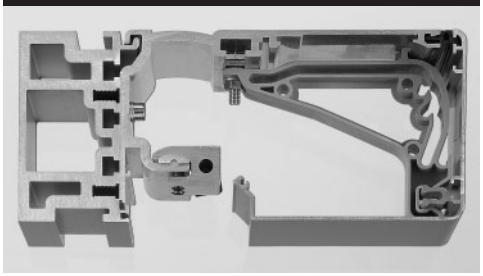
2 Double-glazing profile system
DORMA ST-G-Iso,
TST-G-Iso

3 Standard frame profile system
DORMA ST-R, TST-R

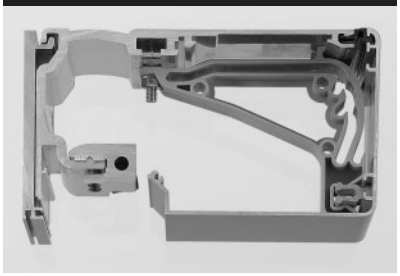
Thermal break profile system
ST-R-Thermo
(without drawing)

4 MANET single-point fixing
DORMA ST-MANET

Profiles for corridor installation, 100 mm



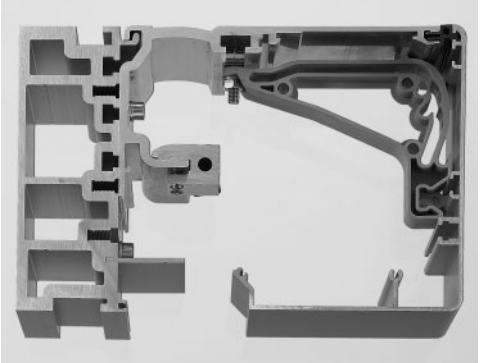
Profiles for wall face fixing, 100 mm



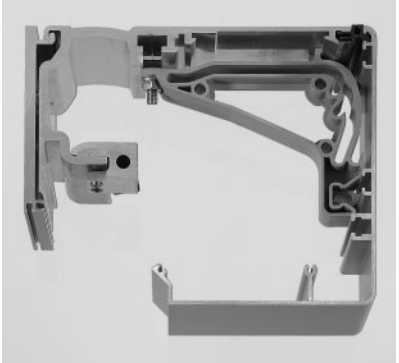
Profile for 100 mm and 150 mm height, for corridor or wall face fixing guarantees adaptation for all possible applications.

The basic mechanical system, with a low number of components, is the same for both heights.

Profiles for corridor installation, 150 mm



Profiles for wall face fixing, 150 mm



Specification text ST ES 200

Automatic sliding door system with
( ) 2 sliding panels (standard) ( ) 1 sliding panel
( ) 2 side screens ( ) 1 side screen
( ) without side screen
( ) 2 protective panels ( ) 1 protective panel
( ) fanlight
( ) 1-component ( ) 2-components ( ) 3-components
( ) solid panel
( ) suitable for installation in emergency exits and escape routes FST/ES 200-2D

Manufactured according to the guidelines for power-operated windows, doors and gates, UVV and VDE-regulations, latest issue respectively, TÜV-type approval, compliant with the Low Voltage Directive and manufactured to ISO 9000.

Power supply: 230 V, 50/60 Hz

Design:
( ) G all-glass profiles ( ) G-Iso double-glazing profiles
( ) R standard frame profile ( ) R-Thermo thermal break profiles
( ) MANET single-point fixings

Transom section:
( ) Aluminium girder, supported side screen, for up to 6250 mm
( ) MSH-profile (optional) with external cover

Transom height:
( ) Elevation height 100 mm
( ) Elevation height 150 mm
( ) Elevation height 200 mm (only with ST-R-Thermo)

Fixing:
( ) Corridor fixing (with side screens)
( ) Wall fixing (without side screens)

Floor guide:
( ) Surface installation without floor guide rail (standard)
( ) Recessed installation with floor guide rail

Glazing of sliding panel:
( ) Toughened glass (ESG) ... ( ) Laminated safety glass (VSG) ...
( ) Double-glazing ... ( ) Special glazing .....
( ) Adhesive-bound midrails

Glazing of side screen(s):
( ) Toughened glass (ESG) ... ( ) Laminated safety glass (VSG) ...
( ) Double-glazing ... ( ) Special glazing .....
( ) Adhesive-bound midrails

Glazing of protective panel:
( ) Toughened glass (ESG) ... ( ) Laminated safety glass (VSG) ...
( ) Special glazing .....

Glazing of fanlight:
( ) Float glass ... ( ) Toughened glass (ESG) ...
( ) Laminated safety glass (VSG) ... ( ) Double-glazing ...
( ) Special glazing .....

Drive and control unit ST/ES 200 Easy:
Automatic sliding door operator in modular design including internal cover
( ) ES 200 Easy

Integrated microprocessor control, self-learning, with adjustable parameters for opening and closing speed as well as hold-open time. Class of protection IP 20.

( ) Rechargeable battery pack fail-safe
( ) Rechargeable battery pack fail-secure
( ) Door status contact
( ) DORMA USV emergency power supply unit (external)

Drive and control unit ST/ES 200:
Automatic sliding door operator in modular design including internal cover
( ) ES 200

Integrated microprocessor control, self-learning, with adjustable parameters for opening and closing speed as well as hold-open time, opening and closing force. With pulse expansion for code card reader or key switch. Including connection for access control system. Class of protection IP 20.

( ) Rechargeable battery pack fail-safe
( ) Rechargeable battery pack fail-secure
( ) Bell contact
( ) Connection for airlock control
( ) Pharmacy control
( ) Door status contact
( ) Module for coupling to LON building control system
( ) DORMA USV emergency power supply unit (external)

Drive and control unit FST/ES 200-2D:
Automatic sliding door operator with Dual-Drive technology and modular design including internal cover.
( ) ES 200-2D

Including self-diagnostics of microprocessor control and integrated additional component for redundant monitoring of opening safety devices and a redundant power supply. Self-learning with adjustable parameters for opening and closing speed as well as hold-open time, opening and closing force. With pulse expansion for code card reader or key switch. Including connection for access control system, rechargeable battery pack. Class of protection IP 20.

( ) Door status contact
( ) Bell contact
( ) Pharmacy control
( ) Module for coupling to LON building control system
( ) DORMA USV emergency power supply unit (external)

Function programs:
Off, Automatic, Permanent open, Partial open, Exit only, Exit partial open, Night-/bank-function

Safety devices:
Obstacle self-detection, automatic reversing, force limitation, light barriers to monitor the passage area

Switch, pushbutton, external:
Program switch
( ) lockable (FST/ES 200-2D) ( ) not lockable (not available for FST/ES 200-2D)
( ) flush-mounting ( ) surface-mounting

Emergency pushbutton, external
( ) lockable ( ) not lockable
( ) flush-mounting ( ) surface-mounting
( ) behind glass

Locking device:
( ) Electro-mechanical locking device
( ) Manual lock release
( ) Mechanical locking device (not available for FST/ES 200-2D)

Activator:
( ) Radar motion detector, direction-sensitive, ... piece
( ) Radar motion detector, direction-unsensitive, ... piece
( ) Radar motion detector, self-monitoring, ... piece (for FST/ES 200-2D)
( ) others ....., piece .....

Colour of aluminium components:
( ) silver, anodised E6/C0 ( ) Special anodised finish E6/–
( ) RAL ..... ( ) Special colour .....

System dimensions:
Total width (B) ..... mm Clear passage width (LW) ..... mm
Total height (H) ..... mm Clear passage height (LH) ..... mm

Make:
( ) DORMA ST/ES 200 Easy
( ) DORMA ST/ES 200
( ) DORMA FST/ES 200-2D

Specification text TST ES 200

Automatic telescopic sliding door system with
( ) 4 sliding panels (standard) ( ) 2 sliding panels
( ) 2 side screens ( ) 1 side screen
( ) without side screen
( ) fanlight
( ) 1-component ( ) 2-components ( ) 3-components
( ) solid panel
( ) suitable for installation in emergency exits and escape routes FTST/ES 200-2D

Manufactured according to the guidelines for power-operated window, doors and gates, UVV and VDE-regulations, latest issue respectively, TÜV-type approval, compliant with the Low Voltage Directive and manufactured to ISO 9000.

Power supply: 230 V, 50/60 Hz

Design:
( ) G all-glass profiles ( ) G-Iso double-glazing profiles
( ) R standard frame profile

Transom section:
( ) Aluminium girder, supported side screen, for up to 6250 mm
( ) MSH-profile (not standard) with external cover

Transom height:
( ) Elevation height 100 mm
( ) Elevation height 150 mm

Fixing:
( ) Corridor fixing (with side screens)
( ) Wall fixing (without side screens)

Floor guide:
( ) Recessed installation with floor guide rail
( ) Surface installation without floor guide rail (standard)

Glazing of sliding panel:
( ) Toughened glass (ESG) ... ( ) Laminated safety glass (VSG) ...
( ) Double-glazing ... ( ) Special glazing .....
( ) Adhesive-bound midrails

Glazing of side screen(s):
( ) Toughened glass (ESG) ... ( ) Laminated safety glass (VSG) ...
( ) Double-glazing ... ( ) Special glazing .....
( ) Adhesive-bound midrails

Glazing of protective panel:
( ) Toughened glass (ESG) ... ( ) Laminated safety glass (VSG) ...
( ) Double-glazing ... ( ) Special glazing .....

Glazing of fanlight:
( ) Float glass ... ( ) Toughened glass (ESG) ...
( ) Laminated safety glass (VSG) ... ( ) Double-glazing ...
( ) Special glazing .....

Drive and control unit ES 200 T Easy:
Automatic sliding door operator in modular design including internal cover
( ) ES 200 T Easy

Integrated microprocessor control, self-learning, with adjustable parameters for opening and closing speed as well as hold-open time. Class of protection IP 20.

( ) Rechargeable battery pack fail-safe
( ) Rechargeable battery pack fail-secure
( ) Door status contact
( ) DORMA USV emergency power supply unit (external)

Drive and control unit ES 200 T:
Automatic sliding door operator in modular design including internal cover
( ) ES 200 T

Integrated microprocessor control, self-learning, with adjustable parameters for opening and closing speed as well as hold-open time, opening and closing force. With pulse expansion for code card reader or key switch. Including connection for access control system. Class of protection IP 20.

( ) Rechargeable battery pack fail-safe
( ) Rechargeable battery pack fail-secure
( ) Connection for airlock control
( ) Pharmacy control
( ) Door status contact
( ) Module for coupling to LON building control system
( ) DORMA USV emergency power supply unit (external)

Drive and control unit ES 200 T-2D:
Automatic sliding door operator in modular design with Dual-Drive technology including internal cover
( ) ES 200 T-2D

Including self-diagnostics of microprocessor control and integrated additional component for redundant monitoring of opening safety devices. Self-learning with adjustable parameters for opening and closing speed as well as hold-open time, opening and closing force. Fail safe. With pulse expansion for code card reader or key switch. Including connection for access control system, rechargeable battery pack. Class of protection IP 20.

( ) Door status contact
( ) Bell contact
( ) Module for coupling to LON building control system
( ) Pharmacy control
( ) DORMA USV emergency power supply unit (external)

Function programs:
Off, Automatic, Permanent open, Partial open, Exit only, Exit partial open, Night-/bank-function

Safety devices:
Obstacle self-detection, automatic reversing, force limitation, light barriers to monitor the passage area

Switch, pushbutton, external:
Program switch
( ) lockable (FTST/ES 200-2D) ( ) not lockable (not available for FTST/ES 200-2D)
( ) flush-mounting ( ) surface-mounting

Emergency pushbutton, external
( ) lockable ( ) not lockable
( ) flush-mounting ( ) surface-mounting
( ) behind glass

Locking device:
( ) Electro-mechanical locking device
( ) Manual lock release
( ) Mechanical locking device (not available for FTST/ES 200-2D)

Activator:
( ) Radar motion detector, direction-sensitive, ... piece
( ) Radar motion detector, direction-unsensitive, ... piece
( ) Radar motion detector, self-monitoring, ... piece (for FTST/ES 200-2D)
( ) others ....., piece .....

Colour of aluminium components:
( ) silver, anodised E6/C0 ( ) Special anodised finish E6/–
( ) RAL ..... ( ) Special colour .....

System dimensions:
Total width (B) ..... mm Clear passage width (LW) ..... mm
Total height (H) ..... mm Clear passage height (LH) ..... mm

Make:
( ) DORMA TST/ES 200 Easy
( ) DORMA TST/ES 200
( ) DORMA FTST/ES 200-2D

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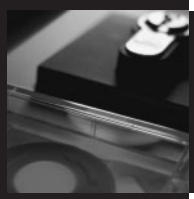
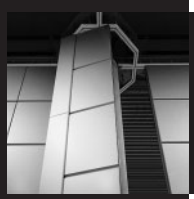
Door Control

Automatic

Glass Fittings and Accessories



Security/ Time and Access (STA)



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