FSW EASY Safe
Technical Brochure 2017

FSW EASY Safe
FSW EASY Safe C / Cplus

dormakaba

FSW EASY Safe

Types and functions

FSW toughened glass folding walls featuring door rails top and bottom and a roller carrier at the end of each second panel.

FSW folding sliding walls are suitable for linear configurations. With an FSW EASY Safe assembly, you can have either two or four panels (a basic panel and 1 or 3 folding panels) linked together. Where two counter-running (bi-parting) assemblies are installed, it is possible to create frontages with up to eight FSW panels.

As the panels are visually compatible with the HSW EASY Safe pivoting/sliding panels, and both systems use the same track design, shop/store frontages or similar transparent partition systems can be made up of these two different types, with the FSW assembly at the free end or supplemented by a single- or double-action HSW end panel (types 4+5). FSW systems can be designed for either opening direction.

Example: Design with 2 x 2 panels (type 1c), bi-parting

01
Track rail

02
Upper locking bolt

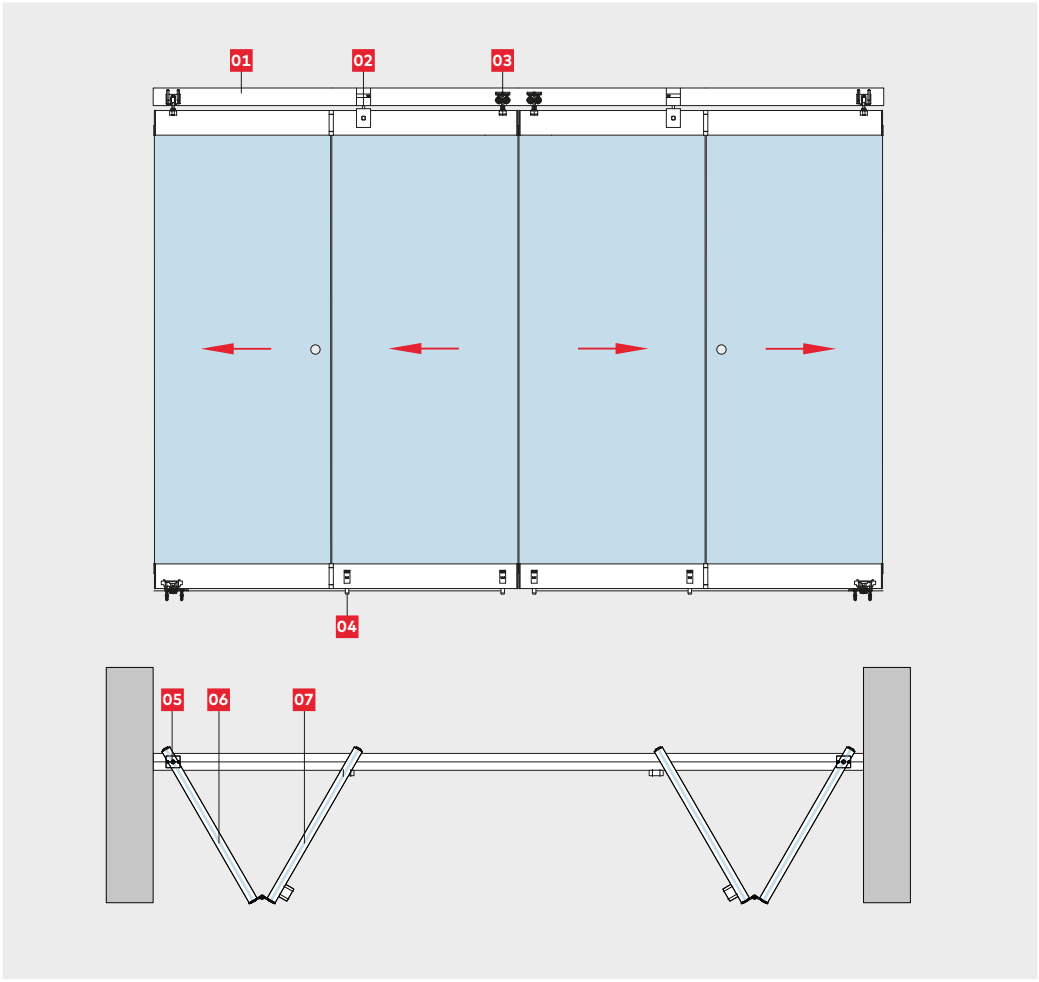
03
Roller carrier

04
Face mounted slide bolt

05
Upper pivot bearing of the basic panel

06
Basic panel

07
Folding panel

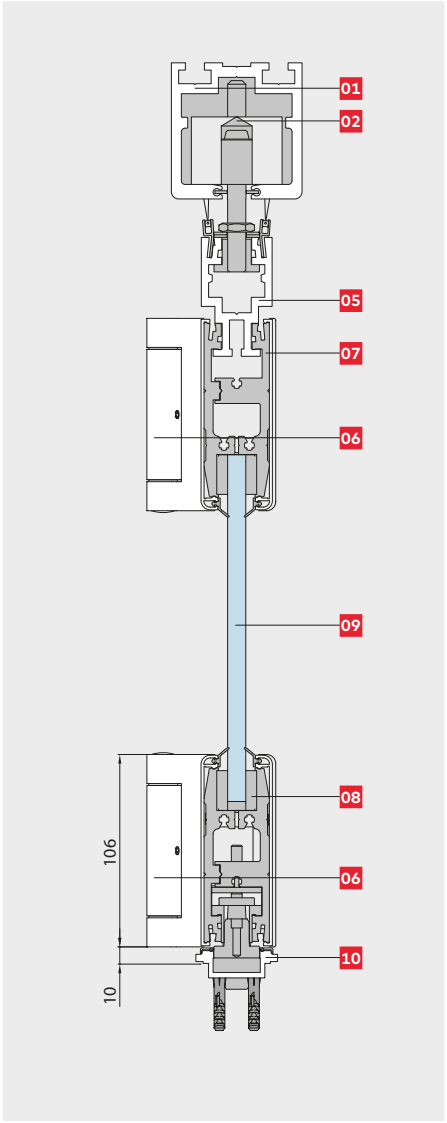


Max. panel sizes and weights	**Basic panel** with top pivot and floor pivot	**Folding panel** with roller carrier and lock bolts top and bottom	**Folding panel** with roller carrier and lock bolts top and bottom	**Basic panel** with roller carrier and lock bolts top and bottom
Max. assembly height	3000 mm	3000 mm	3000 mm	3000 mm
Max. panel width	1250 mm	1250 mm	1250 mm	1250 mm
Max. panel weight	80 kg	80 kg	80 kg	80 kg

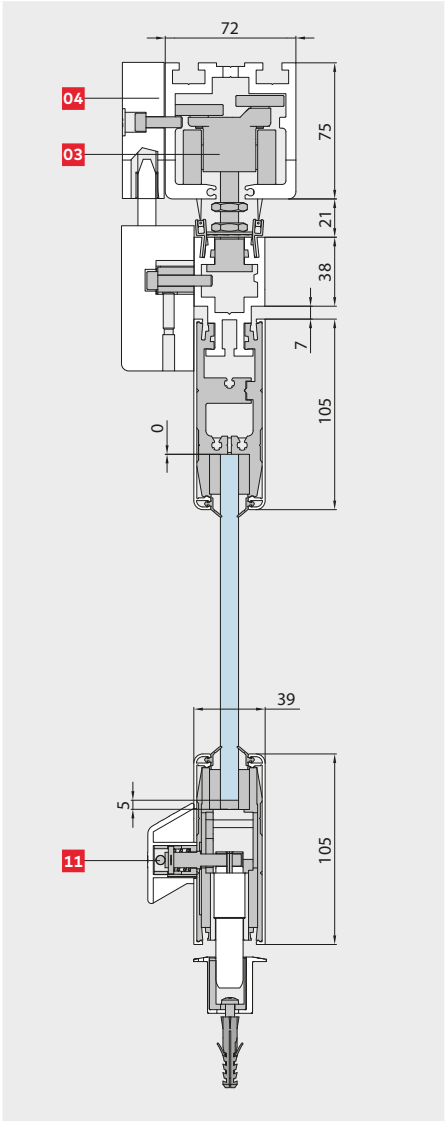
The standard thicknesses are 10/12 mm toughened safety glass (TSG).
Other thicknesses and glazing with laminated safety glass (LSG) available on request.

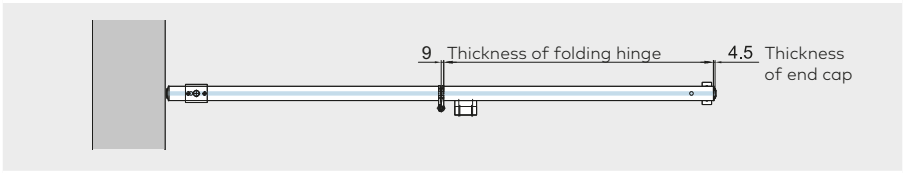
System components

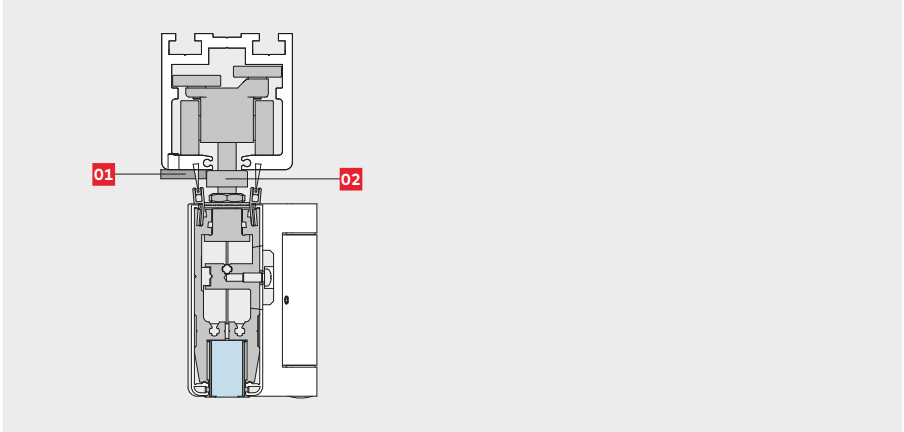
Basic panel



Folding panel







The FSW EASY Safe assembly consists of the following basic components:

01
Track rail (fixed to the substructure)

02
Upper pivot bearing

03
Roller carrier

04
Upper locking bolt

05
Carrier profile

Design without a carrier profile also available – see drawing below

06
Folding hinge

07
Top door rail

08
Bottom door rail consisting of basic profile and covers with lip seal

09
Toughened safety glass, or LSG of TSG (when using LSG we recommend the Clamp&Glue technology)

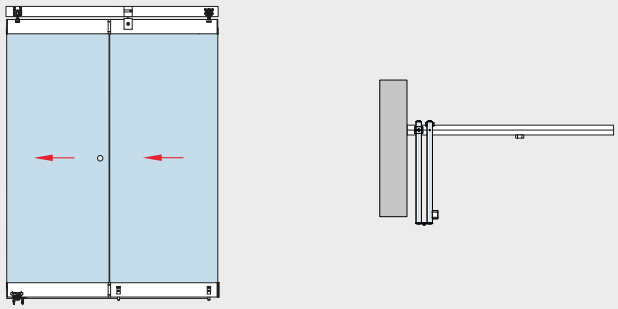
10
Floor pivot bearing

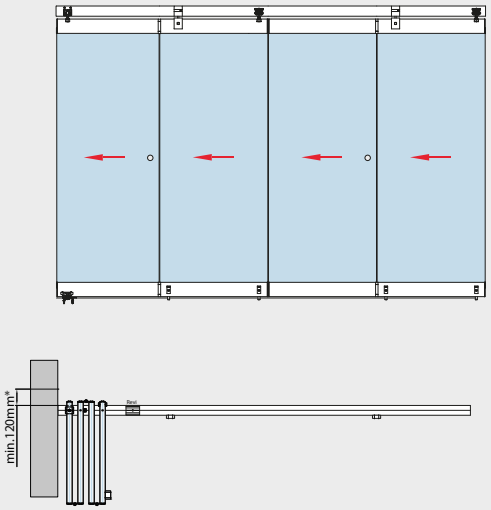
11
Face mounted slide bolt

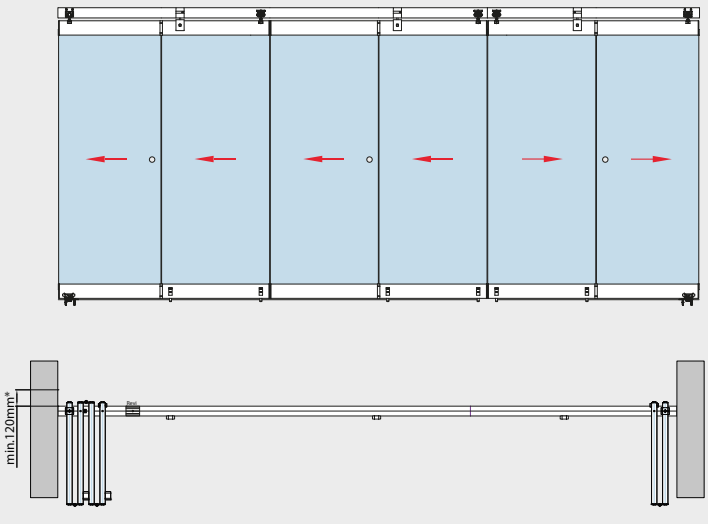
01
Contact plate

02
Roller carrier with stop device

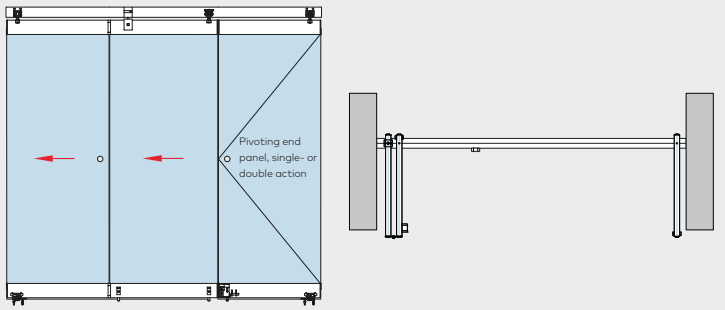
Layout variants

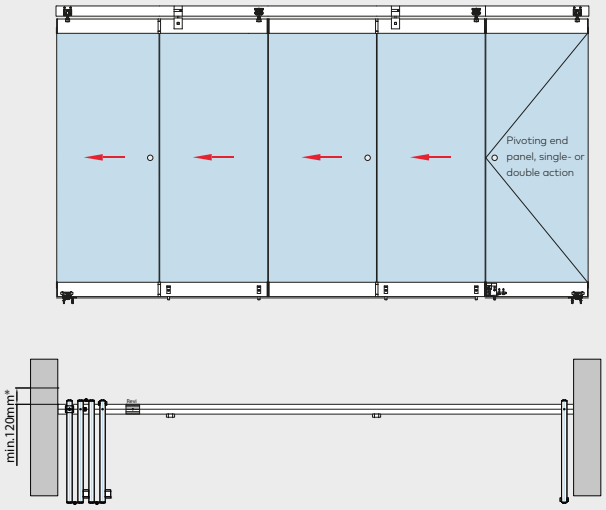
Type 1	Classification	Product description
	**1a**	2 panels left, as illustrated
	1b	2 panels right, invers
	1c	4 panels (2 panels left and 2 panels right), bi-parting

Type 2	Classification	Product description
	**2a**	4 panels left, as illustrated
	2b	4 panels right, invers
	2c	8 panels (2 panels left and 4 panels right), bi-parting

Type 3	Classification	Product description
	**3a**	6 panels left, as illustrated (4 panels left and 2 panels right)
	3b	6 panels left, invers (2 panels left and 4 panels right)

* Minimum structural clearance (e.g. balustrade, railings etc.)

Type 4	Classification	Product description
	**4a**	2 panels left and 1 pivoting end panel, single- or double action, right (as illustrated)
	4b	2 panels right and 1 single- action or double-action end panel left (invers)

Type 5	Classification	Product description
	**5a**	4 panels right and 1 pivoting end panel, single- or double action, right (as illustrated)
	5b	4 panels right and 1 pivoting end panel, single- or double action, left (invers)

* Minimum structural clearance (e.g. balustrade, railings etc.)

FSW EASY Safe C / Cplus

Types and functions

Toughened glass folding partitions with door rails top and bottom roller carrier at panel centre

The FSW EASY Safe C is adaptable to large spans. An assembly comprises a basic panel, up to 6 folding centre panels and a folding pivoting panel which, when the system is closed, can be used for access (alternatively, a non-attached single or double action end panel can be used). The number of panels therefore ranges between 3 and 8. As the roller carriers are centrally arranged on the folding panels, the basic panel must be designed as a half-width unit (plus pivot offset of 65 mm). The pivoting access panel can be of either basic panel or centre panel width. The slightly offset hinges mean that the panels can be folded into particularly compact stacks, with high stability also ensured. Available as standard for glass thicknesses of 10 or 12 mm. Other glass thicknesses and models with laminated safety glass also available on request. Please indicate your requirements when ordering!

Example: Partition type C2 (symmetrical with narrow pivoting access panel)

01
Pivot bearing top and bottom

02
Basic panel

03
Track rail

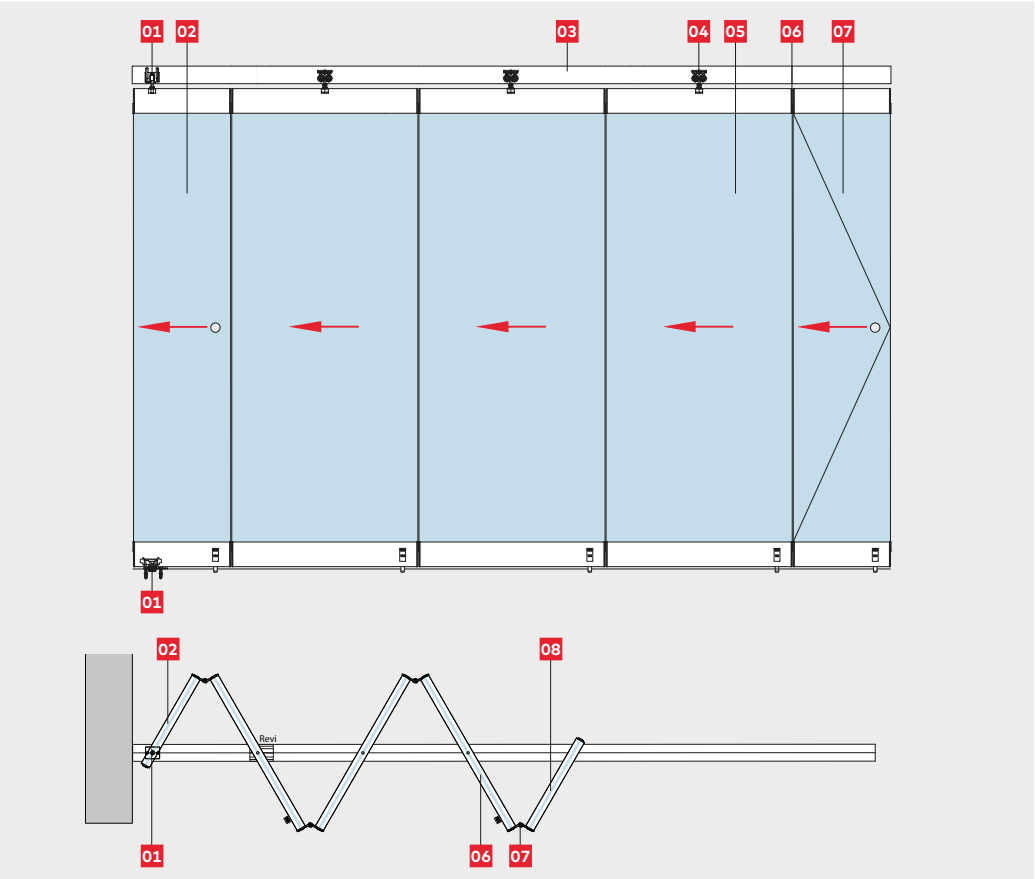
04
Roller carrier

05
Folding basic panel

06
Folding hinge

07
Pivoting access panel

05 + 06 + 07
Dual panel assembly



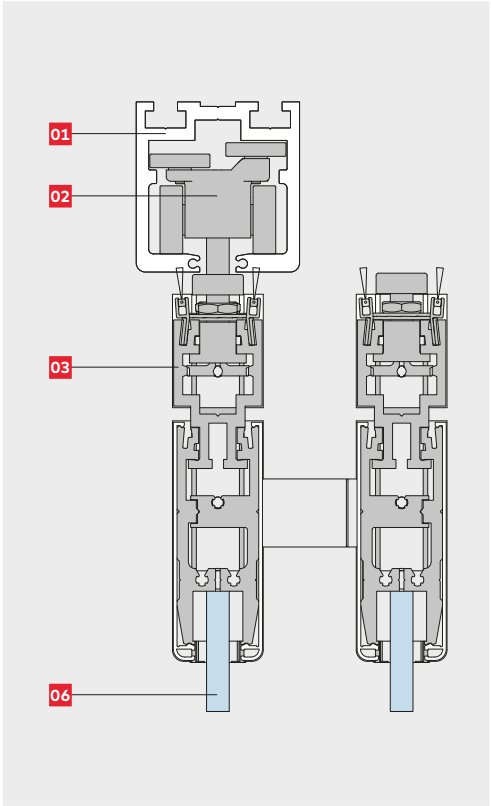
Dual panel assembly

Max. panel sizes and weights	**Basic panel** with top pivot and floor pivot	**Folding panel** with roller carrier and lock bolts top and bottom	**Folding panel** with roller carrier and lock bolts top and bottom	**Basic panel** with roller carrier and lock bolts top and bottom	**Pivoting panel** for access with lock bolts top and bottom
Max. assembly height	3000 mm	3000 mm	3000 mm	3000 mm	3000 mm
Max. panel width	½ panel width + 65mm	1000 mm	1000 mm	1000 mm	1000 mm
Max. panel weight	80 kg	80 kg	80 kg	80 kg	–

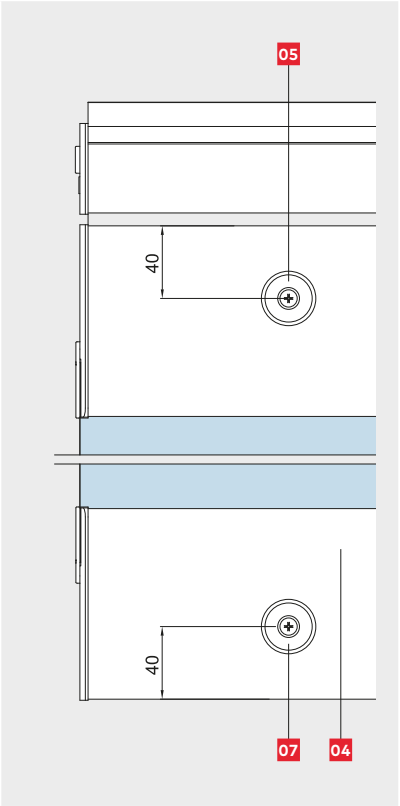
The standard thicknesses are 10/12 mm toughened safety glass (TSG).
Other thicknesses and glazing with laminated safety glass (LSG) available on request.

System components

Folding panel with bolt



Magnetic door holders top and bottom



The FSW EASY Safe C system consists of the following basic components:

01
Track rail (fixed to the substructure)

02
Roller carrier

03
Carrier profile
Top door rail also available in a design without the carrier profile – see drawing below.

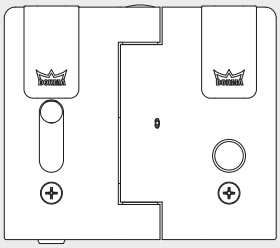
04
Bottom door rail consisting of basic profile and covers with lip seal.

05
Magnetic holder top

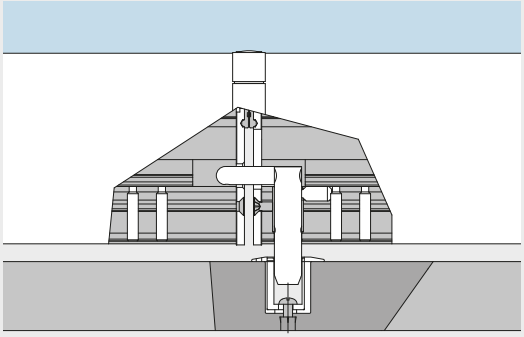
06
Toughened safety glass, or LSG of TSG (when using LSG we recommend the Clamp&Glue technology)

07
Magnetic holder bottom

Bottom hinge

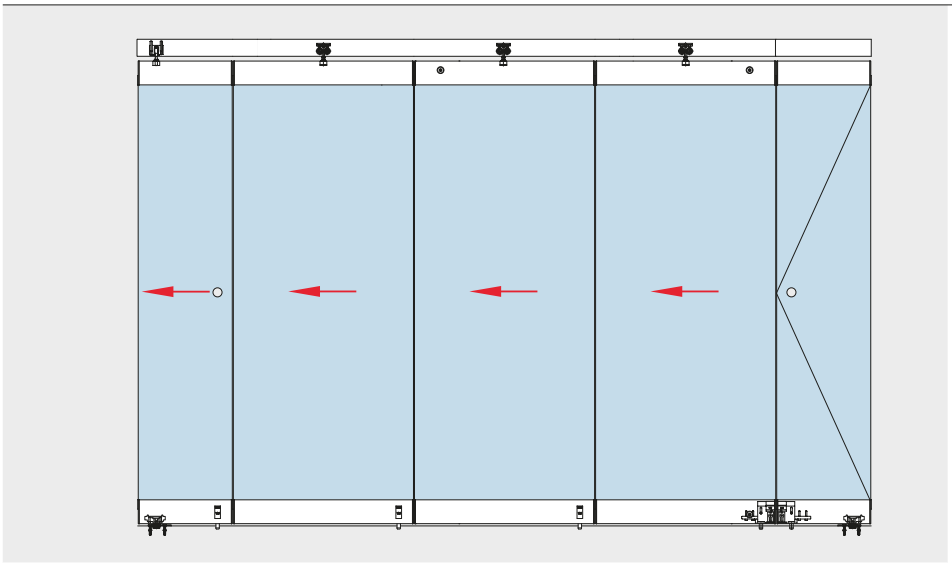


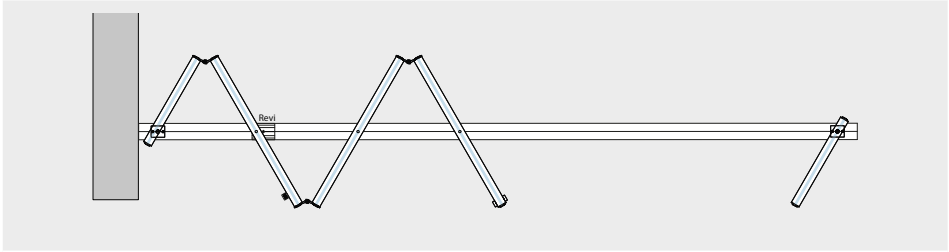
End mounted slide bolt at the bottom in the area of the double unit/pivoting access panel



Layout variants

Type C1

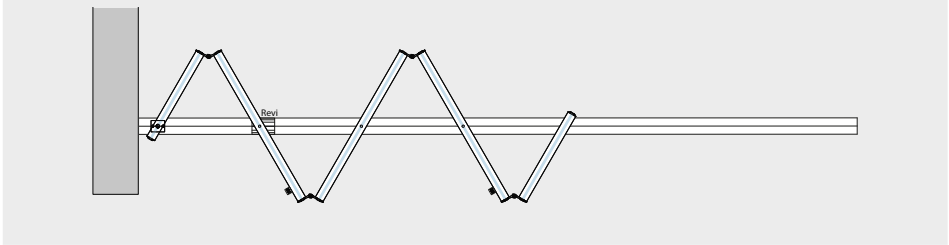




Product description

- 1 pivoting end panel, single-action, as access (here in narrow design for reasons of symmetry)
- 1-6 folding panels
- 1 basic panel (narrow)

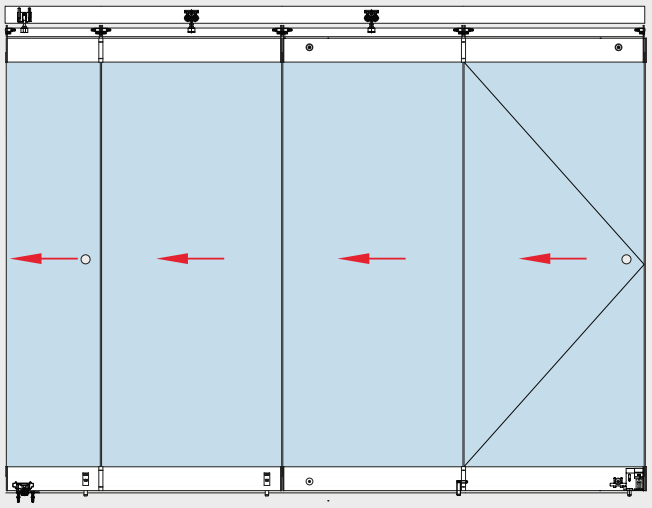
Type C2

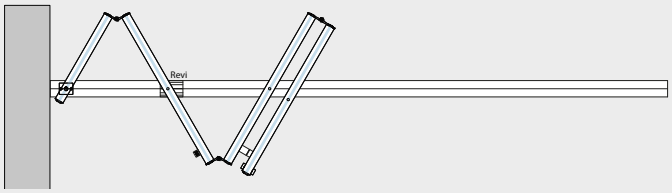


Product description

- 1 pivoting access panel (here in narrow design for reasons of symmetry)
- 1-6 folding panels
- 1 basic panel (narrow)

Type C3

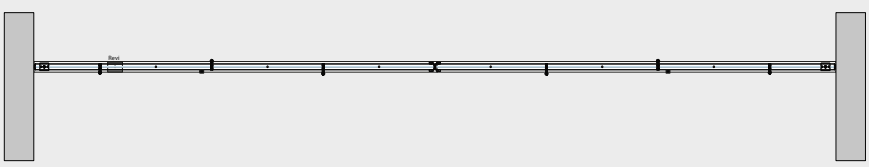




Product description

- 1 basic panel (narrow)
- 1-5 folding panels
- 1 dual panel assembly

Type C3, dual assembly (bi-parting)



Product description

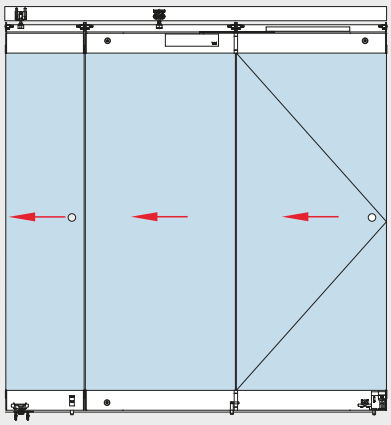
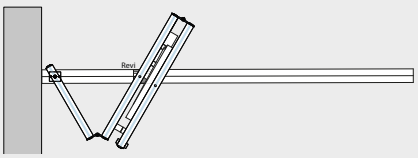
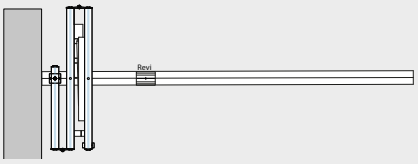
Left:
- 1 basic panel (narrow)
- 1-5 folding panels
- 1 dual panel assembly

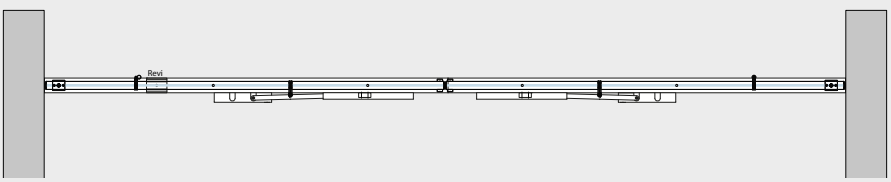
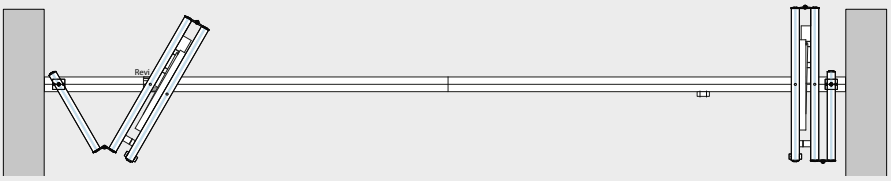
Right:
- 1 basic panel (narrow)
- 1-5 folding panels
- 1 dual panel assembly

Types and functions

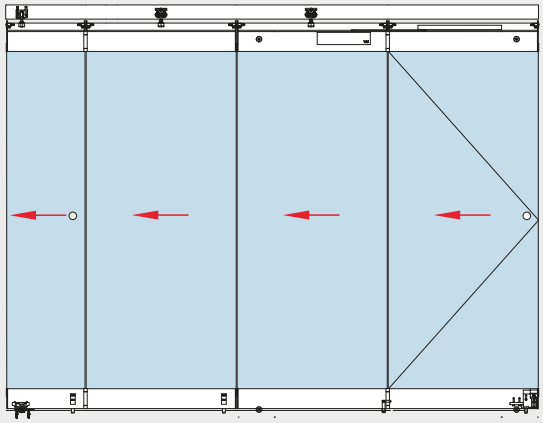
Access with convenience – the plus you get with the FSW EASY Safe Cplus

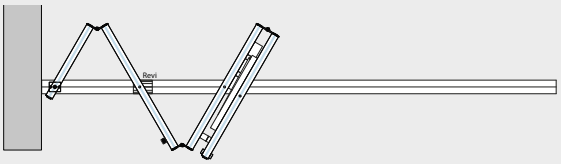
Based on the design of the FSW EASY Safe Cplus, the model variant FSW EASY Safe Cplus offers the possibility of including a hinged, folding end panel as a fully fledged access door when the system is otherwise closed – with all the automatic closing convenience which the DORMA TS 93 G cam-action door closer can offer. The special bottom lock bolt and the top clamp-fitted stop serve to stabilize the first folding panel in this configuration. The top angle stop ensures the correct positioning of the closed folding end panel. The folding hinges connect the access panel to the folding panel and offer a larger pivot offset in order to create space for the door closer and pull handles. All the other folding panels are equipped with standard hinges and roller carriers.

Type Cp 1	Product description
  	• 1 basic panel (narrow) • 1 dual panel assembly with TS93 G cam-action door closer easy open

Type Cp1 dual assembly (bi-parting)	Product description
	**Left:** • 1 basic panel (narrow) • 1 dual panel assembly with TS93 G cam-action door closer
	**Right:** • 1 basic panel (narrow) • 1 dual panel assembly with TS93 G cam-action door closer

Type Cp 2



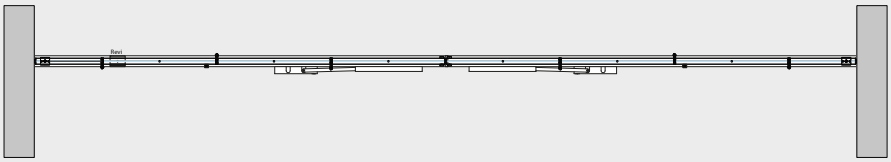


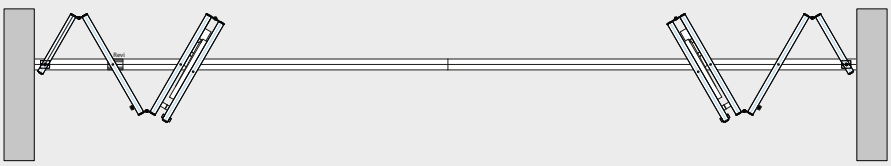
Product description

- 1 basic panel (narrow)
- 1 – 5 folding panels
- 1 dual panel assembly with TS93 G cam-action door closer

easy open

Type Cp2, dual assembly (bi-parting)





Product description

Left:
- 1 basic panel (narrow)
- 1 – 5 folding panels
- 1 dual panel assembly with TS93 G cam-action door closer

Right:
- 1 basic panel (narrow)
- 1 – 5 folding panels
- 1 dual panel assembly with TS93 G cam-action door closer

TS 93 technical data and features

Spring strength/Door closer size	EN 2 – 5	EN 5 – 7
Adjustable closing force	Adjustable screw	Adjustable screw
Adjustable closing speed	Adjustable valve	Adjustable valve
Non-handed	Yes	Yes
Adjustable latching action	Adjustable valve	Adjustable valve
Adjustable backcheck	80° – 120°	80° – 120°
Adjustable hold-open	75° – 150°	75° – 150°
Weight	3.5 kg	5.2 kg
Length	275 mm	285 mm
Installation depth	53 mm	62 mm
Height	60 mm	71 mm

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Subject to change without notice

dormakaba Deutschland GmbH
DORMA Platz 1
58256 Ennepetal
Germany

T: +49 2333 793-0
F: +49 2333 793-4950