

Folding sliding walls

FSW ES
FSW ES-C
FSW ES-C Plus



FSW ES/ES-C/ES-C Plus

Folding sliding walls



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FSW ES-C

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FSW ES

Types and functions

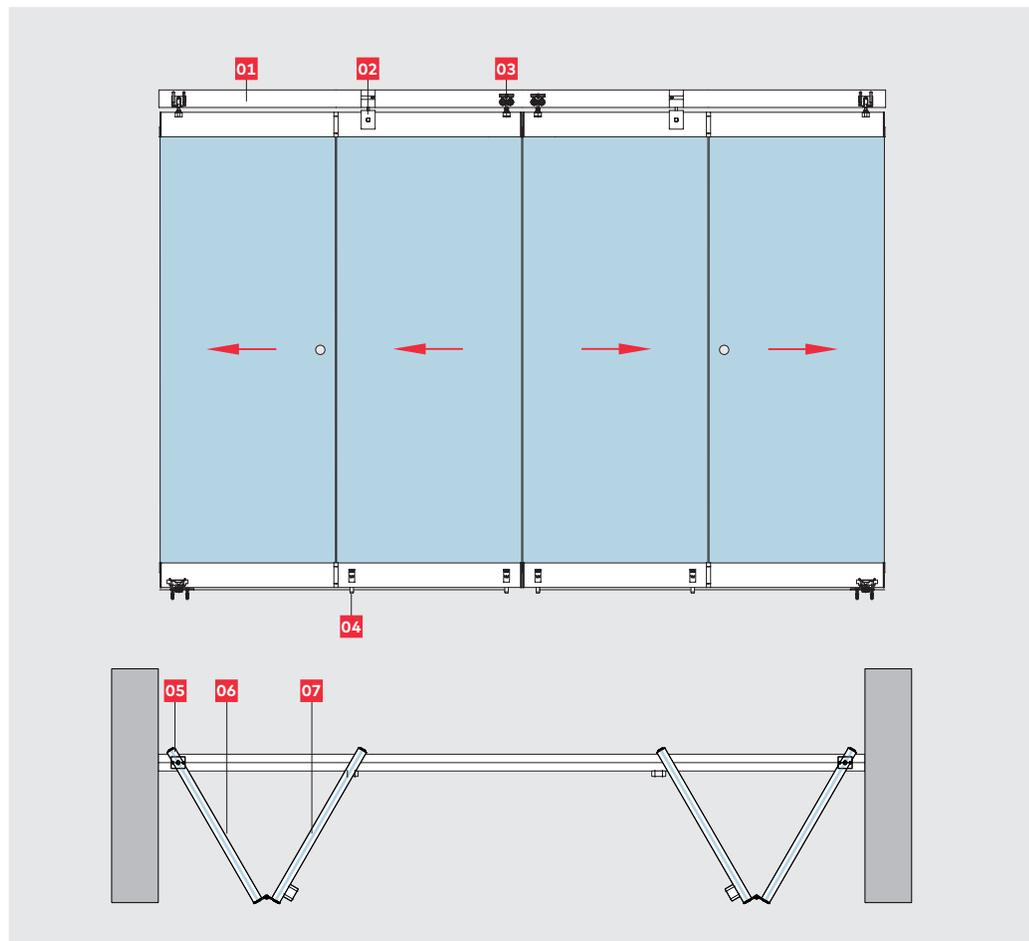
FSW ES is a folding sliding wall system created for use with tempered glass. Featuring top and bottom door rails and a roller carrier at the end of each second panel.

The FSW system is suitable for linear configurations. With an FSW ES assembly, you can have either two or four panels (a basic panel and 1 or 3 folding panels) linked together. Where two bi-parting assemblies are installed, frontages with up to eight FSW panels are

possible. As the panels are visually compatible with the HSW ES pivoting/sliding panels, and both systems use the same track design, systems can be designed using these two different system types. In this case the FSW assembly must be at the free end or supplemented by a single- or double-acting 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



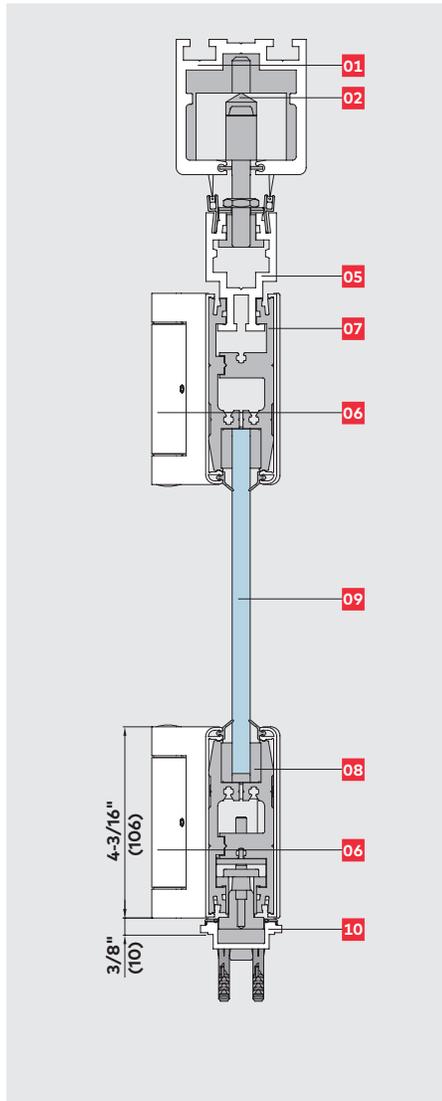
Max. panel sizes and weights	Basic panel with top pivot and floor pivot	Folding panel with roller carrier and lock bolts top and bottom	Folding panel with roller carrier and lock bolts top and bottom	Basic panel with roller carrier and lock bolts top and bottom
Max. assembly height	118-1/8" (3000)	118-1/8" (3000)	118-1/8" (3000)	118-1/8" (3000)
Max. panel width	49-7/32" (1250)	49-7/32" (1250)	49-7/32" (1250)	49-7/32" (1250)
Max. panel weight	176 lb (80 kg)	176 lb (80 kg)	176 lb (80 kg)	176 lb (80 kg)

The standard thicknesses are 3/8"-1/2" (10-12) tempered monolithic glass (TMG). Other thicknesses and glazing with tempered laminate glass (TLG) available on request.

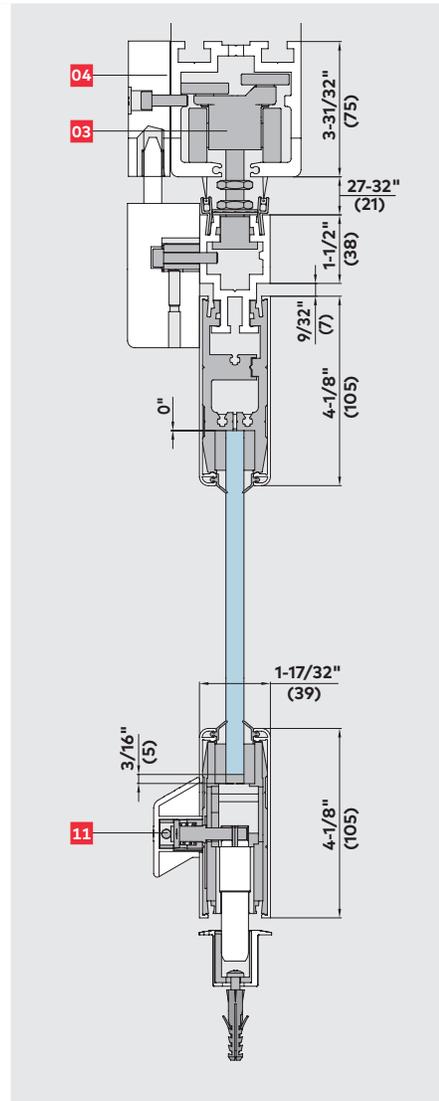
FSW ES

System components

Basic panel

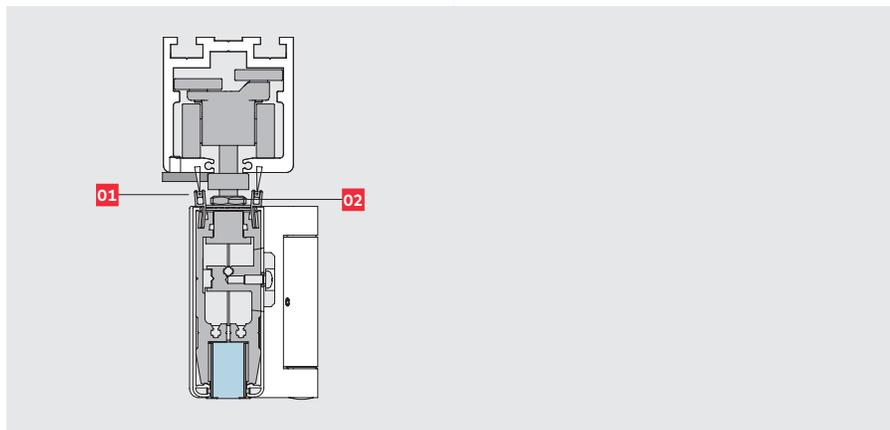
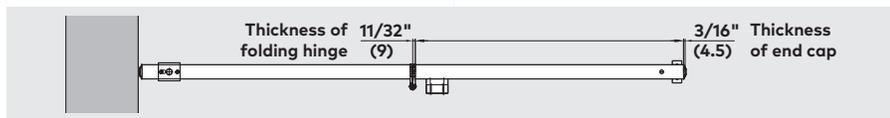


Folding panel



The FSW ES 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** Tempered monolithic glass (TMG) or tempered laminate glass (TLG) (dormakaba requires use of Clamp&Glue technology)
- 10** Floor pivot bearing
- 11** Face mounted slide bolt

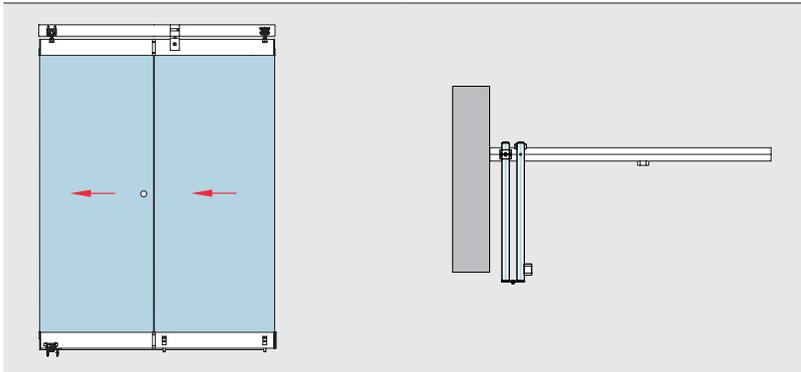


- 01** Contact plate
- 02** Roller carrier with stop device

FSW ES

Layout types

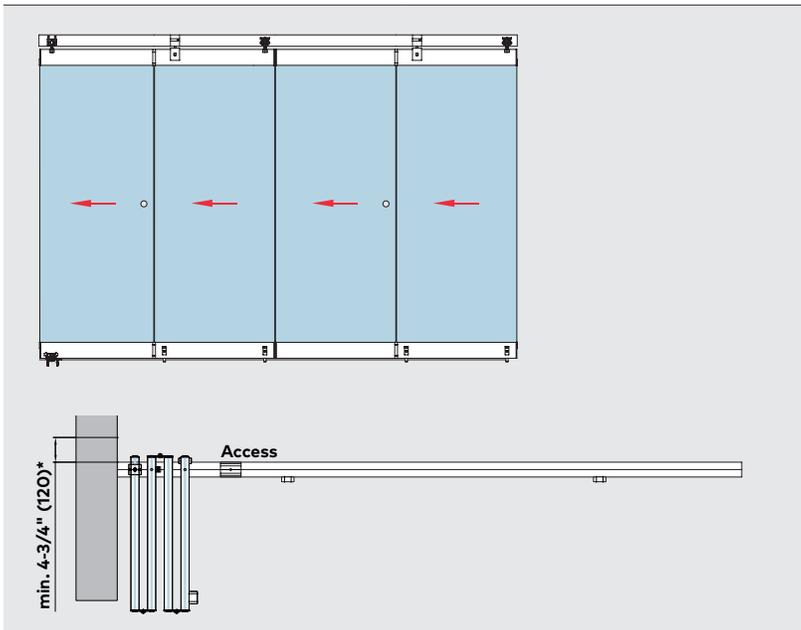
Type 1



Classification **Product description**

- 1a** 2 panels left, as illustrated
- 1b** 2 panels right (inverse)
- 1c** 4 panels (2 panels left and 2 panels right), bi-parting

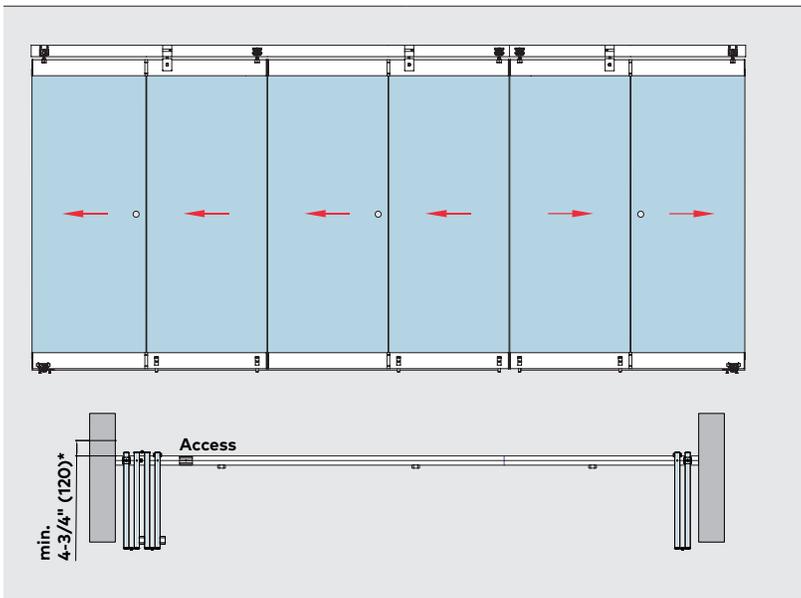
Type 2



Classification **Product description**

- 2a** 4 panels left, as illustrated
- 2b** 4 panels right (inverse)
- 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 (inverse) (2 panels left and 4 panels right)

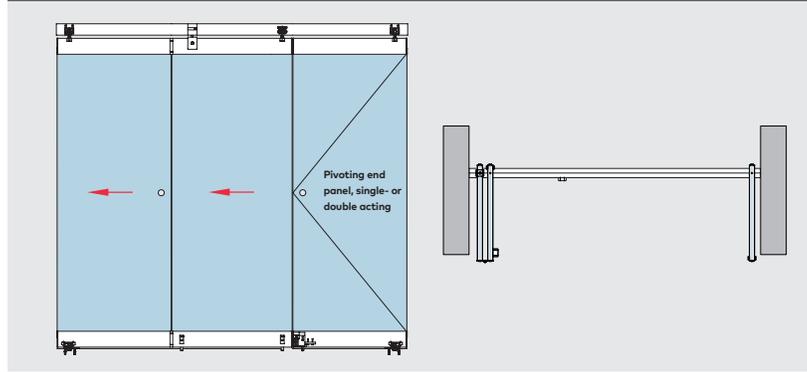
* Minimal structural clearance (e.g. wall, knee-wall, railings, posts, etc.)

FSW ES

Layout types

Type 4

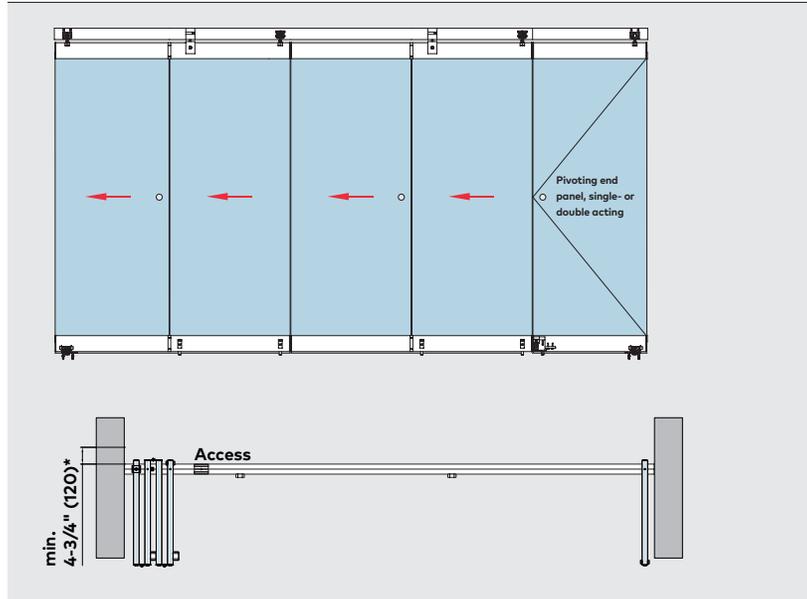
Classification Product description



- 4a** 2 panels left and 1 pivoting end panel, single- or double-acting, right (as illustrated)
- 4b** 2 panels right and 1 single- or double-acting end panel left (inverse)

Type 5

Classification Product description



- 5a** 4 panels right and 1 pivoting end panel, single- or double-acting, right (as illustrated)
- 5b** 4 panels right and 1 pivoting end panel, single- or double-acting, left (inverse)

* Minimal structural clearance (e.g. wall, knee-wall, railings, posts, etc.)

FSW ES-C/-C Plus

Folding sliding walls



FSW ES-C

Types and functions

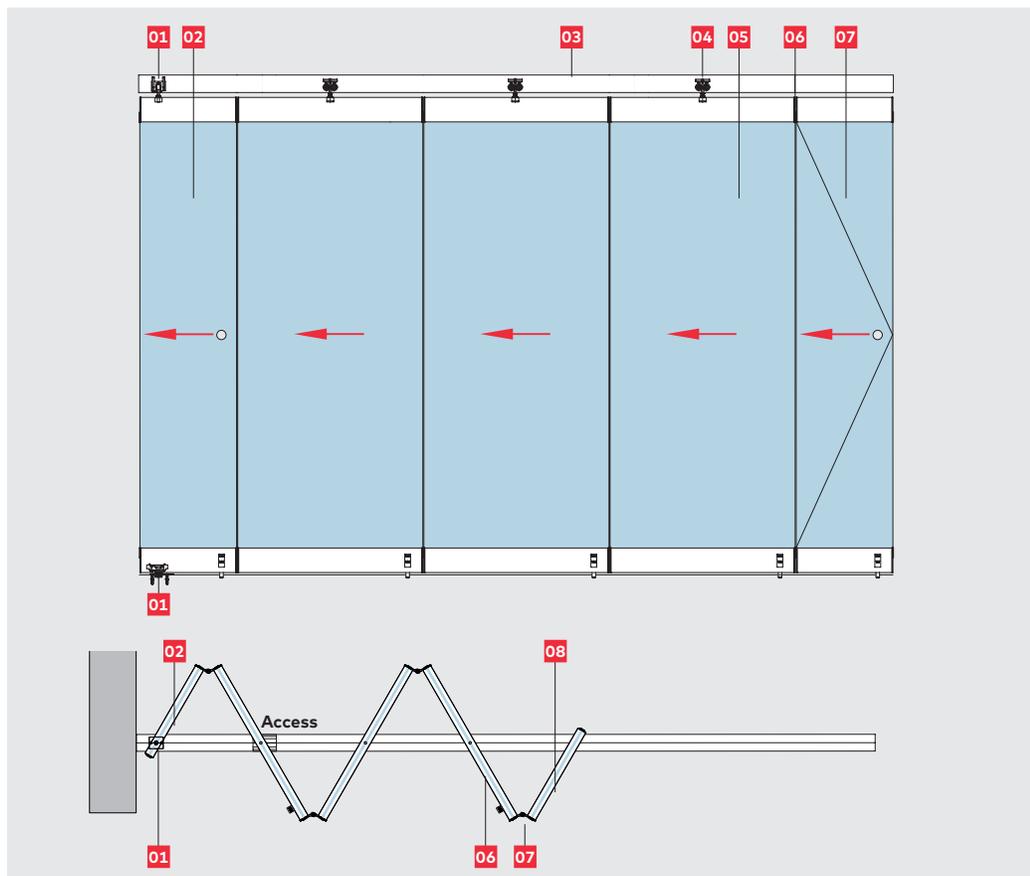
FSW ES-C is a folding sliding wall system created for use with tempered glass, featuring top and bottom door rails and a roller carrier at the center panel.

The FSW ES-C is adaptable to large width spaces. An assembly comprises a basic panel, up to 6 folding center panels, and a folding pivoting panel which, when the system is closed, can be used for access. (Alternatively, a non-attached single or double acting end panel can be used.) The number of panels 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 2-9/16" [65]). The pivoting access panel can be of either basic panel or center panel width. The slightly offset hinges mean that the panels can be folded into a highly stable, compact stack. Available as standard for glass thicknesses of 3/8" (10) or 1/2" (12). Other glass thicknesses and models with tempered laminate glass are also available on request. Please indicate 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

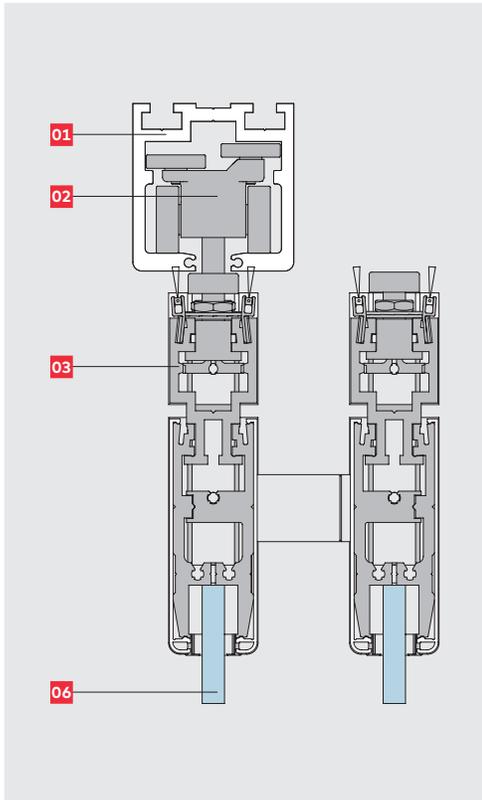
Max. panel sizes and weights	Basic panel with top pivot and floor pivot	Folding panel with roller carrier and lock bolts top and bottom	Folding panel with roller carrier and lock bolts top and bottom	Basic panel with roller carrier and lock bolts top and bottom	Pivoting panel for access with lock bolts top and bottom
Max. assembly height	118-1/8" (3000)	118-1/8" (3000)	118-1/8" (3000)	118-1/8" (3000)	118-1/8" (3000)
Max. panel width	1/2 panel width + 2-9/16" (65)	39-3/8" (1000)	39-3/8" (1000)	39-3/8" (1000)	39-3/8" (1000)
Max. panel weight	176 lb (80 kg)	176 lb (80 kg)	176 lb (80 kg)	176 lb (80 kg)	—

The standard thicknesses are 3/8"-1/2" (10-12) tempered monolithic glass (TMG). Other thicknesses and glazing with tempered laminate glass (TLG) available on request.

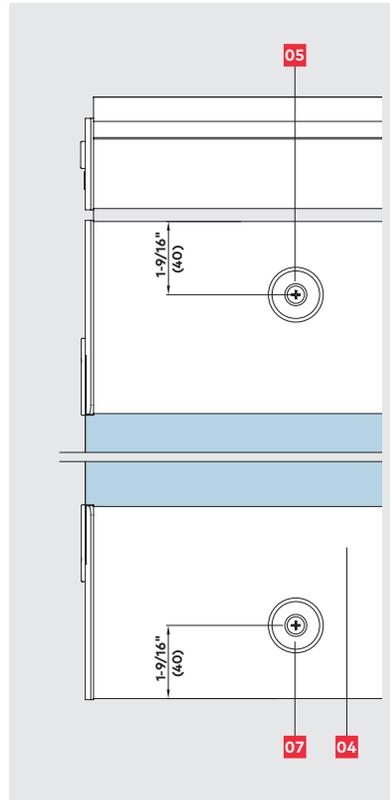
FSW ES-C

System components

Folding panel with bolt

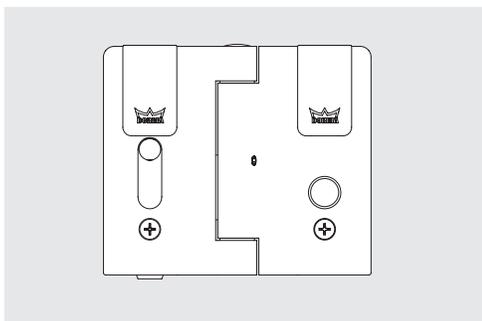


Magnetic door holders top and bottom

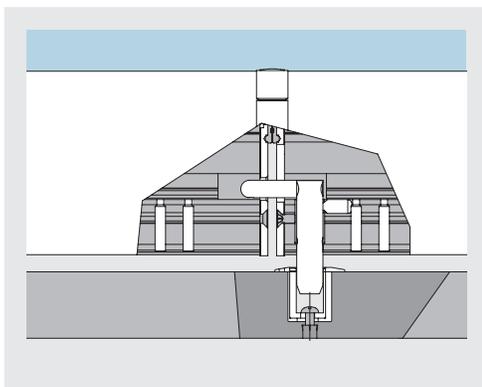


The FSW ES-C system consists of the following basic components:

- 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** Tempered monolithic glass (TMG) or tempered laminate glass (TLG) (dormakaba requires use of 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

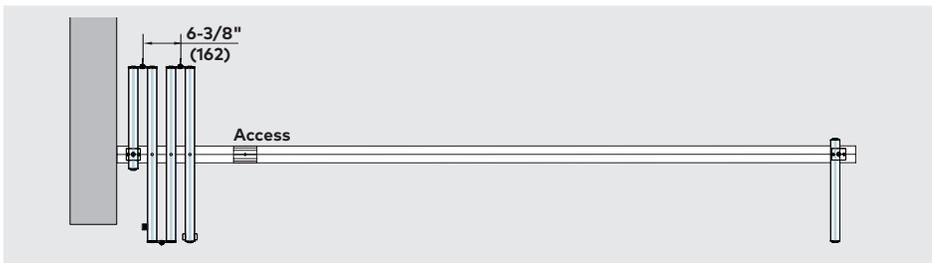
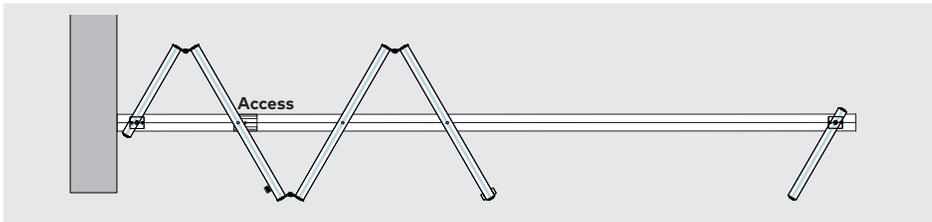
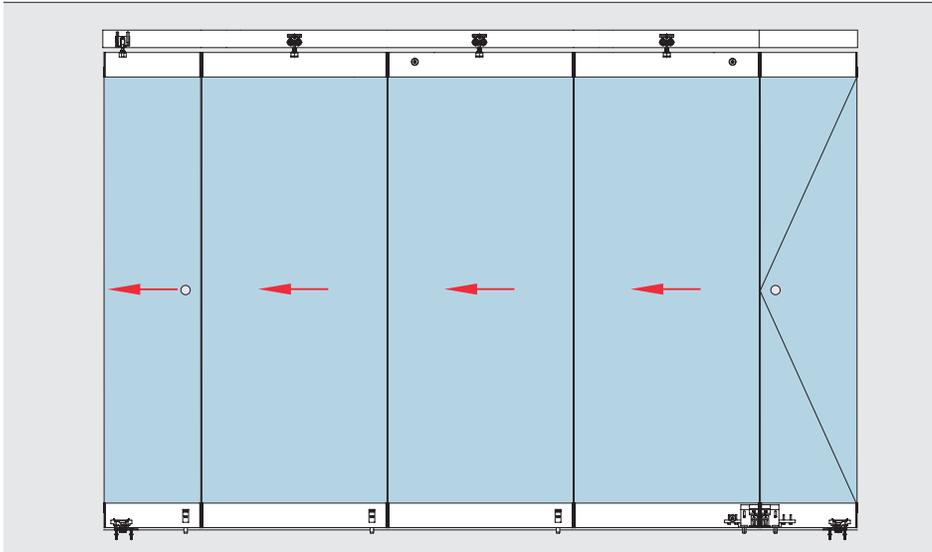
FSW ES-C

Layout types

Type C1

Product description

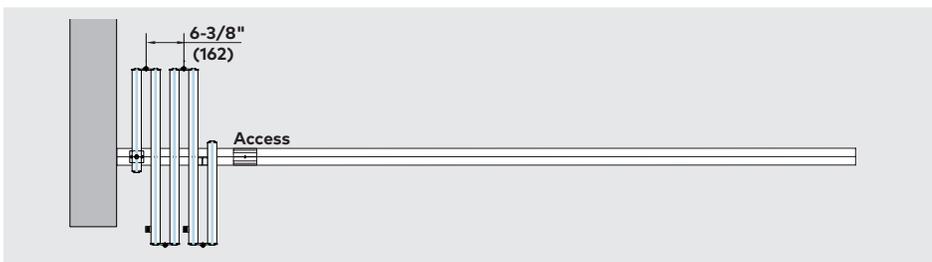
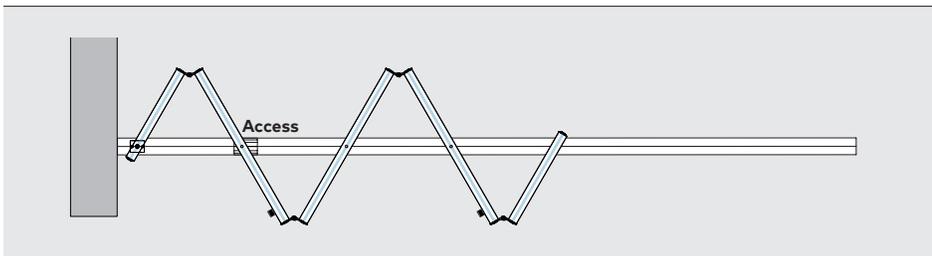
- 1 pivoting end panel, single-acting, as access (here in narrow design for reasons of symmetry)
- 1-6 folding panels
- 1 basic panel (narrow)



Type C2

Product description

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



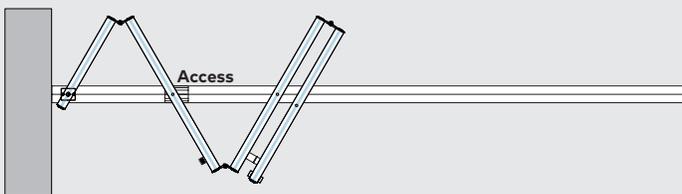
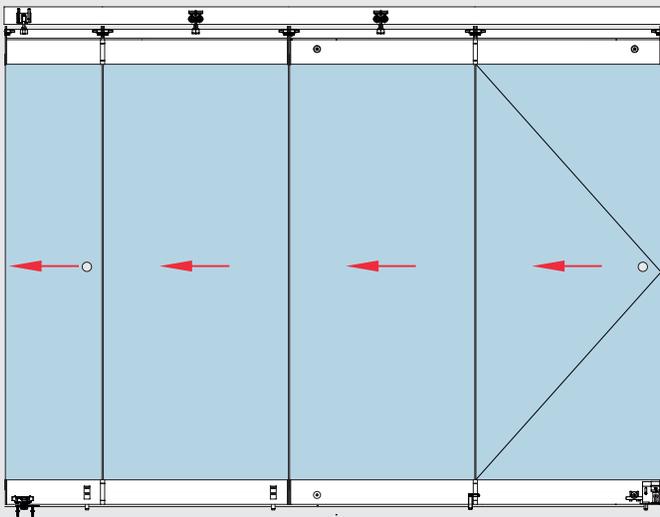
FSW ES-C

Layout types

Type C3

Product description

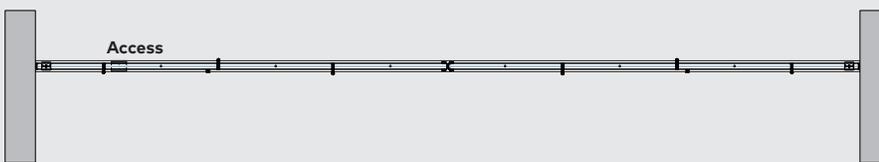
- 1 basic panel (narrow)
- 1-5 folding panels
- 1 dual panel assembly



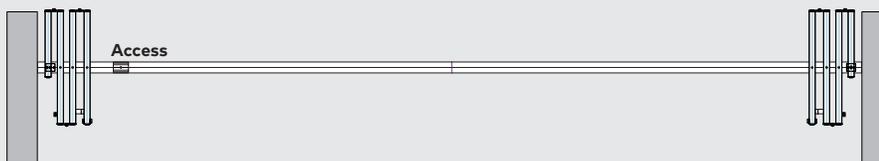
Type C3, bi-parting

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



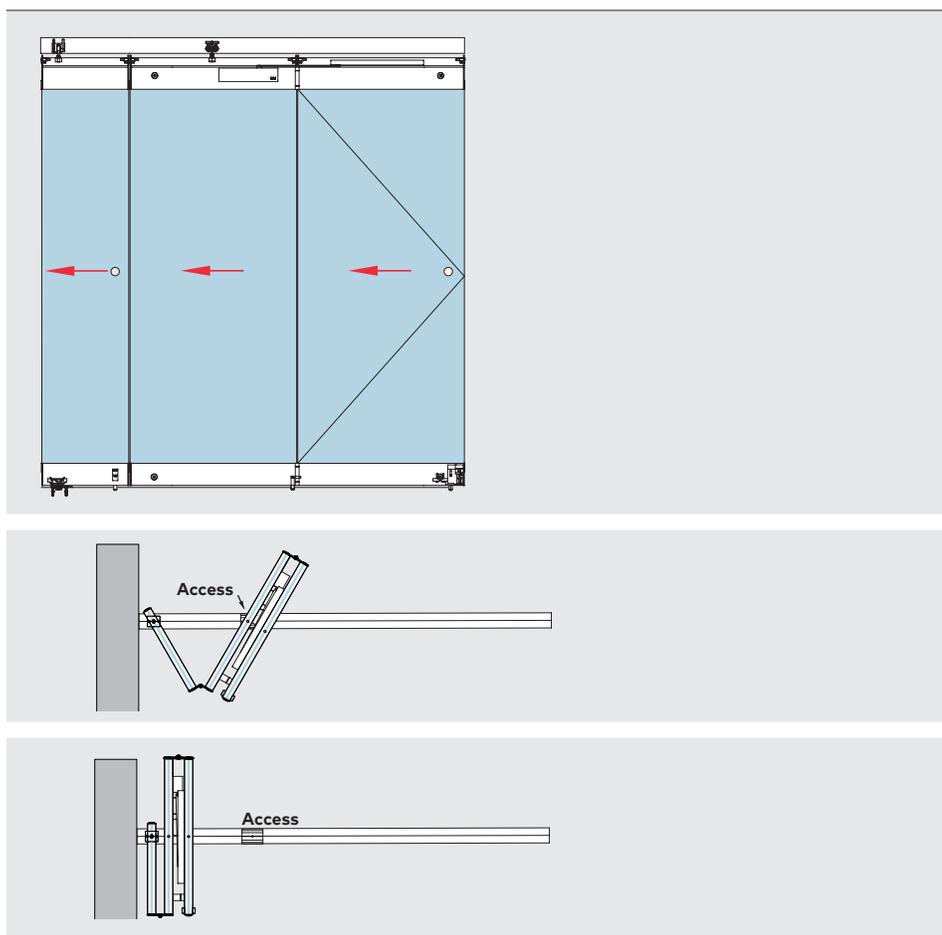
FSW ES-C Plus

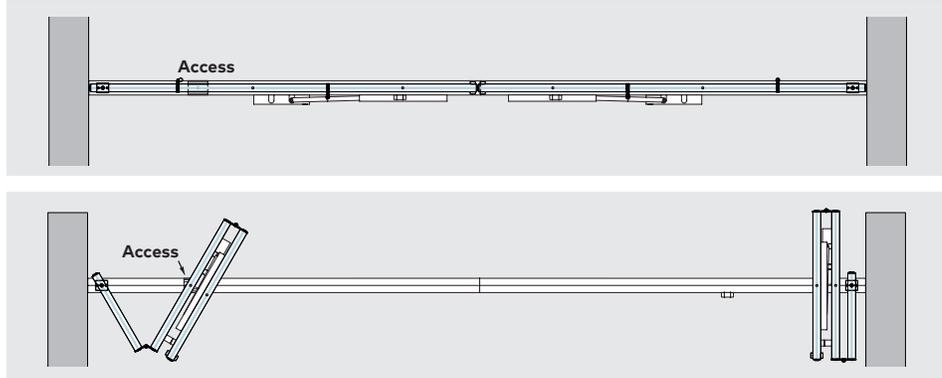
Types and functions

Access with convenience—the plus you get with the FSW ES-C Plus

Based on the design of the FSW ES-C, the FSW ES-C Plus offers the possibility of including a hinged, folding end panel as an access door when the system is closed—with all the controlled closing convenience that the DORMA TS93 T 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
	<ul style="list-style-type: none"> • 1 basic panel (narrow) • 1 dual panel assembly with TS93 T cam-action door closer 

Type Cp1, bi-parting	Product description
	<p>Left</p> <ul style="list-style-type: none"> • 1 basic panel (narrow) • 1 dual panel assembly with TS93 T cam-action door closer <p>Right</p> <ul style="list-style-type: none"> • 1 basic panel (narrow) • 1 dual panel assembly with TS93 T cam-action door closer

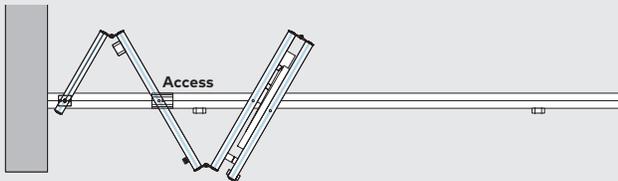
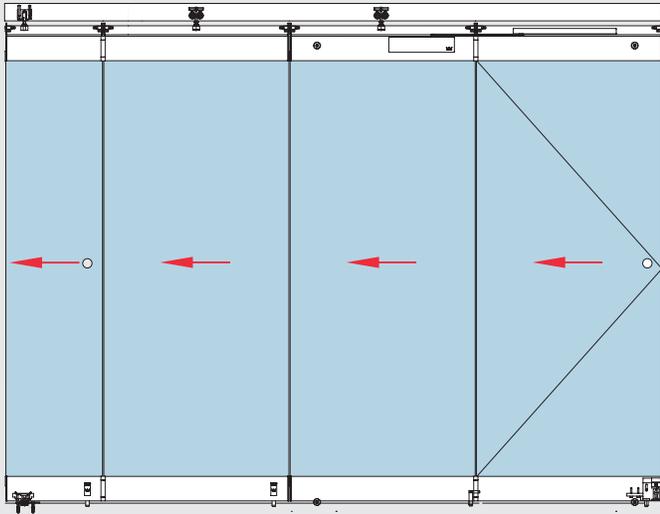
FSW ES-C Plus

Types and functions

Type Cp2

Product description

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



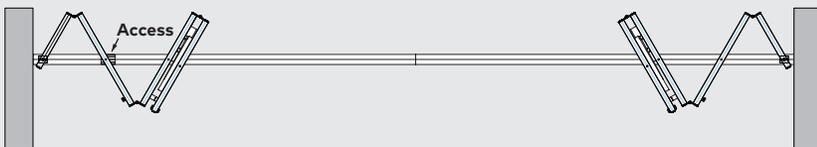
Type Cp2, bi-parting

Product description

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



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



FSW ES-C Plus

TS93 technical data

TS93 technical data and features

Spring strength/Door closer size	ANSI 1-5	ANSI 5-6
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°
Optional adjustable hold-open	75° – 150°	75° – 150°
Weight	7.7 lb (3.5 kg)	11.44 lb (5.2 kg)
Length	10-13/16" (275)	11-1/4" ((285)
Installation depth	2-9/32" (53)	2-7/16" (62)
Height	2-3/8" (60)	2-13/16" (71)



www.dormakaba.us

dormakaba USA Inc.
Dorma Drive, Drawer AC
Reamstown, PA 17567
800.523.8483