

Product Technical Manual

SF45 bifold doors



VER SUN0318-1

Profile system

- ☐ Glass folding door with non-thermally insulated aluminum profiles
- ☐ Bottom-loaded construction
- ☐ The construction depth of the profiles is 45 mm
- ☐ Option of flush or weathered bottom track
- ☐ The flush bottom track is particularly suitable for use in „Barrier-free dwellings“ according to DIN 18 025
- ☐ Panel open to the inside or outside
- ☐ Opening of panels by sliding to one side or to both sides
- ☐ Flush running and guide tracks
- ☐ Height variations and expansions may be compensated

Fittings

- ☐ All fittings are concealed within the profiles
- ☐ Low-maintenance, non-corroding and failsafe hardware components
- ☐ Locking of panels in top and bottom track and/or via mushroom head-lock engaging into the frame or adjacent panel
- ☐ Locking and unlocking of panels via flat handles with locking device for burglar resistance
- ☐ Optionally fitted with different lock types
- ☐ Hinges are secured against knocking-out of the pivot pins (burglar resistance)
- ☐ An open turn panel may be securely fixed to the adjacent panel by panel catchers

Sealing and ventilation

- ☐ Using EPDM gaskets at two levels guarantees rain- and wind-proofness

Glazing

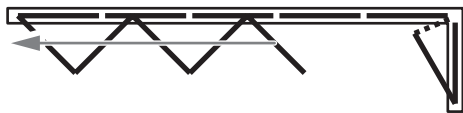
- ☐ A glazing configuration between 6 mm to 20 mm is possible
- ☐ Subsequent replacement of panes without difficulty



tested SUNFLEX Quality

Corner angles 90°-180° with or without corner post (only available with special corner post/special design!)

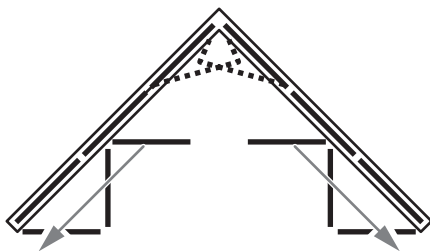
Typ I



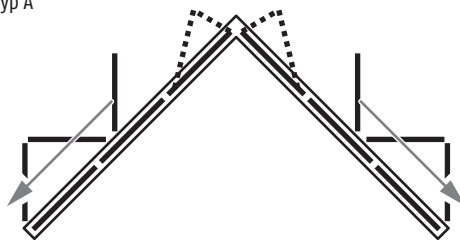
Typ A



Typ I



Typ A



Segmented systems (polygon up to 3,4° (176,6°) possible per segment!)

Typ I

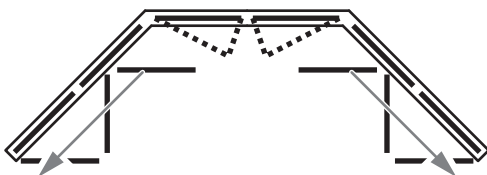


Typ A

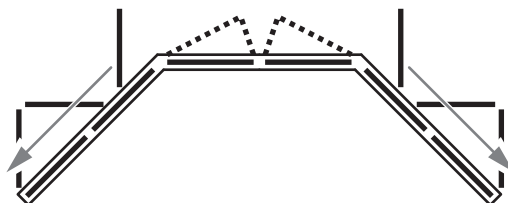


Corner angles 90°-180°

Typ I

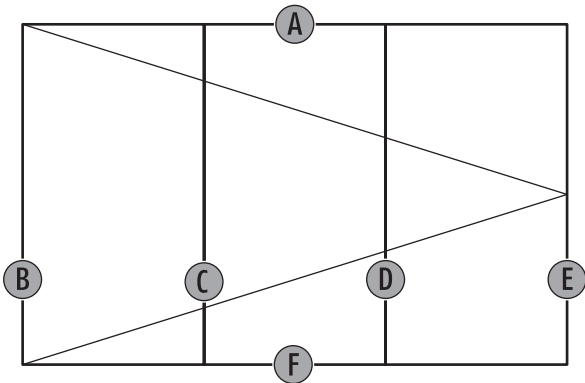


Typ A

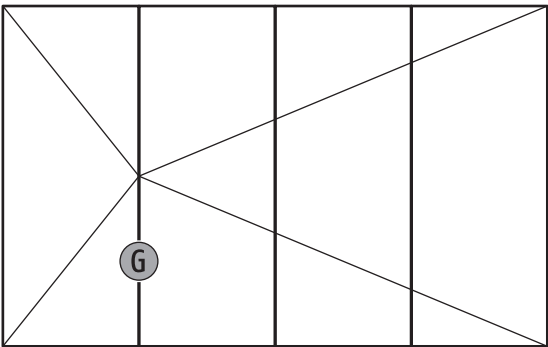


Other floor plan geometries upon request

Typ A = Outward opening of panels Typ I = Inward opening of panels

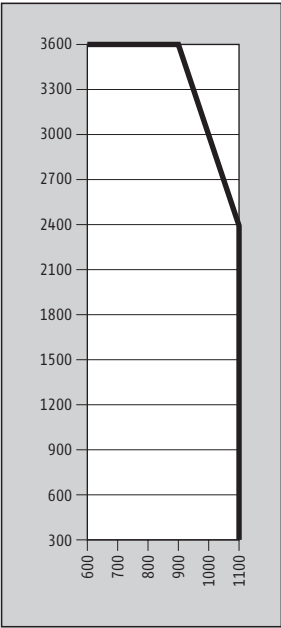


Details at even panel partition in one direction

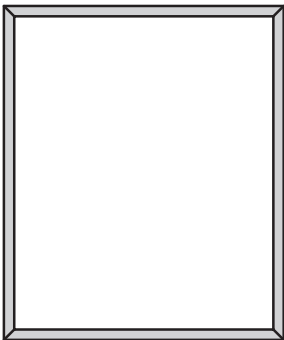


Details at even and uneven panel partition in two directions

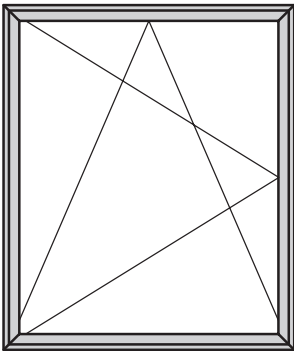
Panel size diagram



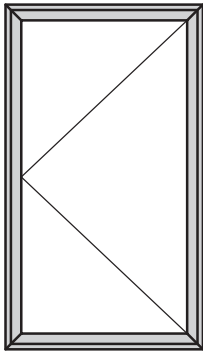
Fix-Elements / Tilt and Turn-Elements / Door-Elements



Fix-Elements

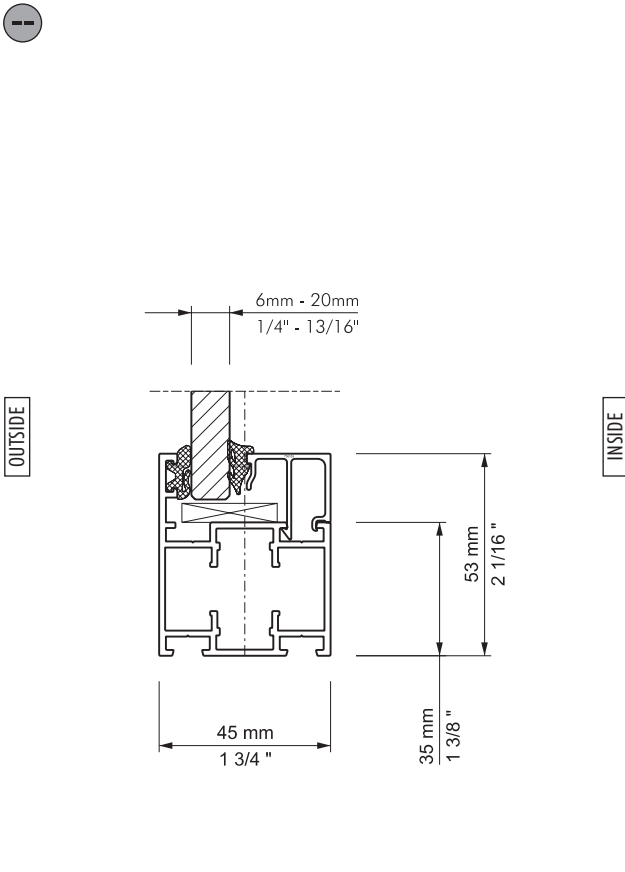
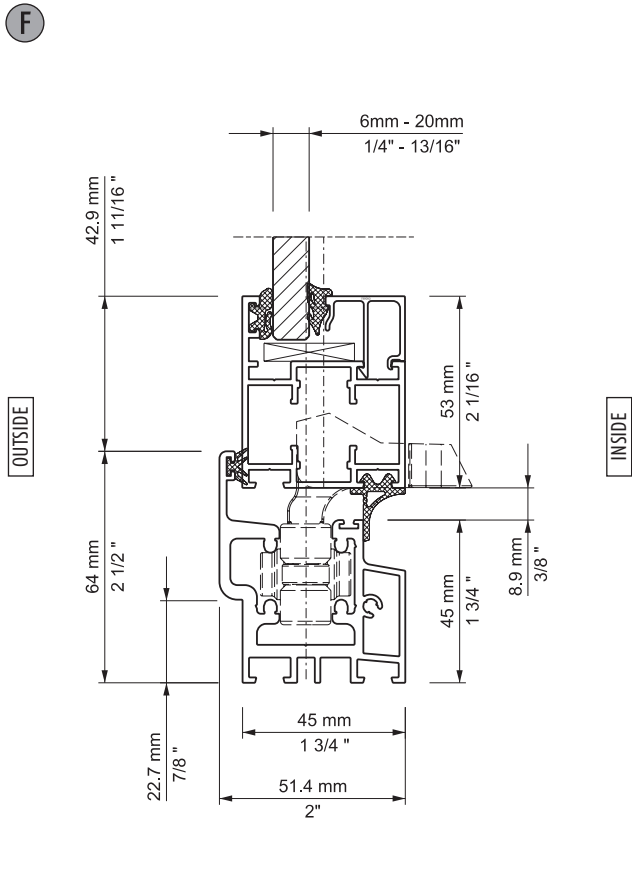
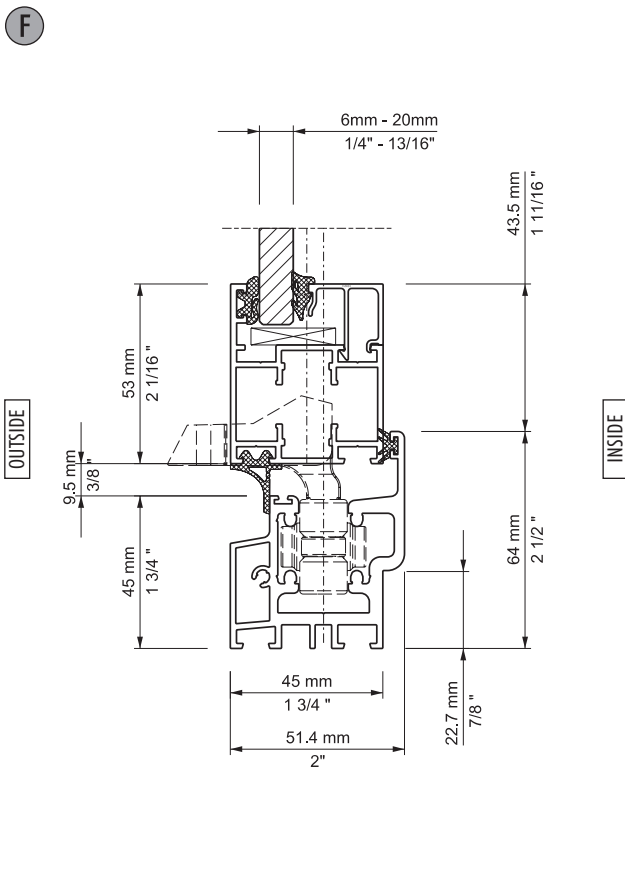
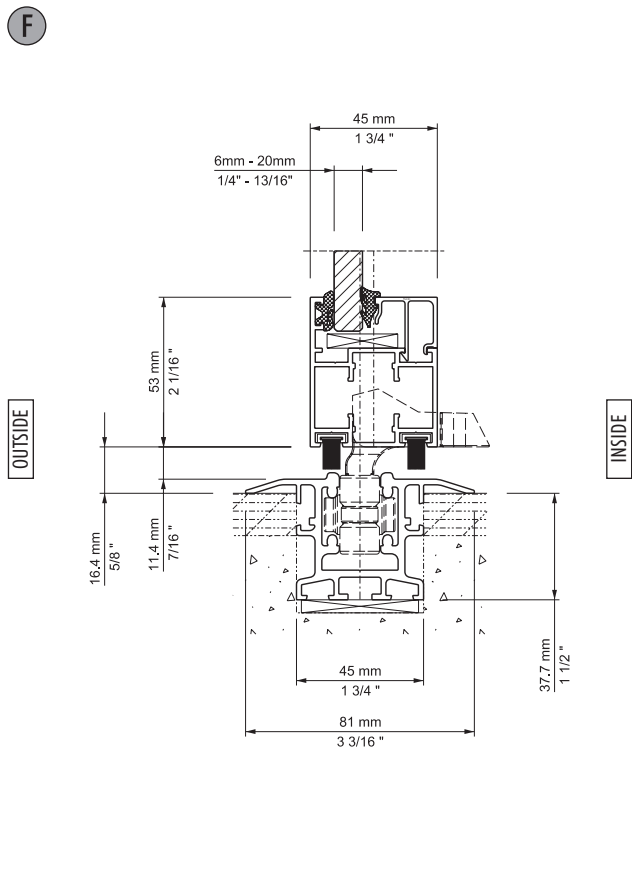


Tilt and Turn-Elements



Door-Elements

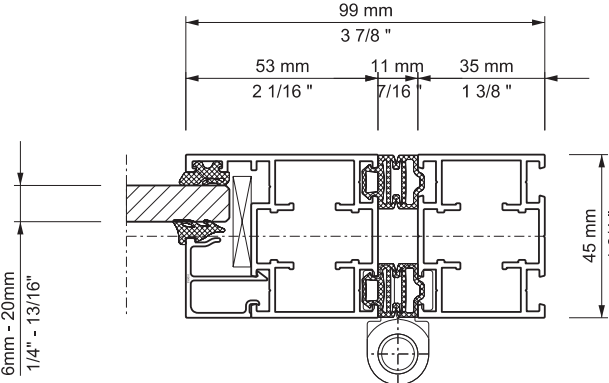
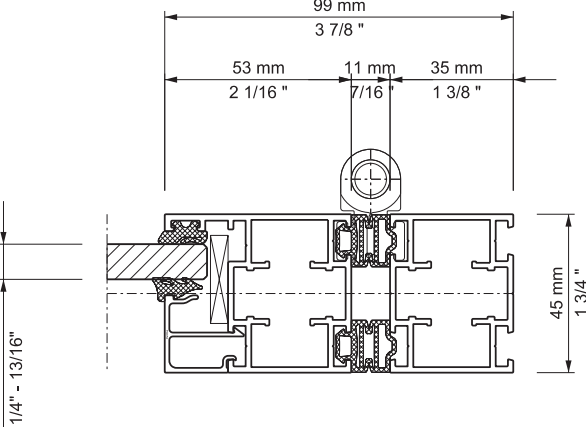
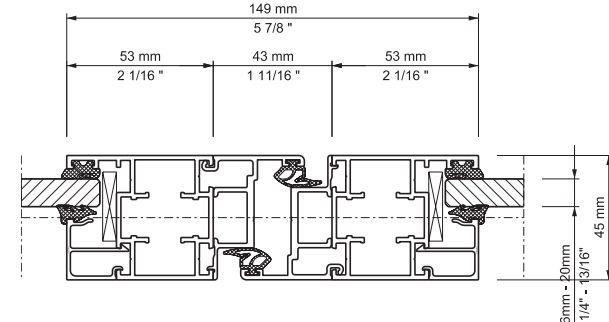
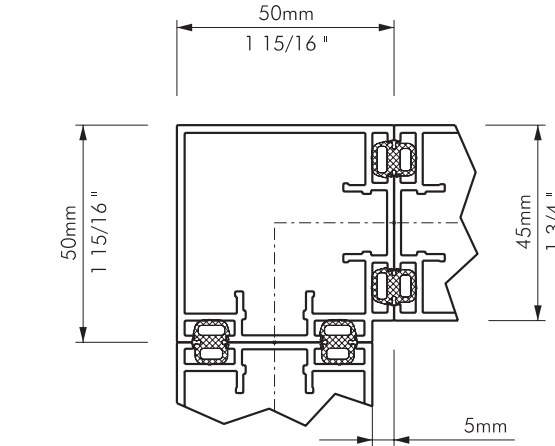
Ref.	Section	Description	Page
--	SF45-000	Vertical-Section, glazing beads designs	5
F	SF45-001	Vertical-Section, connection bottom track / inside folding	5
F	SF45-003	Vertical-Section, connection bottom track / outside folding	5
F	SF45-005a	Vertical-Section, connection flush bottom track / inside folding	5
F	SF45-005b	Vertical-Section, connection flush bottom track / outside folding	6
F	SF45-002	Vertical-Section, connection top track / inside folding	6
A	SF45-004	Vertical-Section, connection top track / outside folding	6
F	SF45-007	Vertical-Section, strengthening profile for balustrade / inside folding	6
A	SF45-008	Vertical-Section, strengthening profile for overhead light / inside folding	7
A	SF45-009	Vertical-Section, connection top track overhead light / inside folding	7
--	SF45-018	Vertical-Section, midrail	7
--	SF45-019	Vertical-Section, tilt and turn element	7
E	SF45-101	Horizontal-Section, blind frame – panel closing section / inside folding	8
E	SF45-102	Horizontal-Section, blind frame – panel closing section / outside folding	8
C	SF45-103	Horizontal-Section, panel – panel / hinge outside	8
D	SF45-104	Horizontal-Section, panel – panel / hinge inside	8
B	SF45-105	Horizontal-Section, vertical post – panel / profil section	9
B	SF45-106	Horizontal-Section, vertical post – panel / hinge outside	9
G	SF45-108	Horizontal-Section, vertical post – panel / hinge inside	9
E	SF45-109a	Horizontal-Section, 90°– connection profile	9
E	SF45-109b	Horizontal-Section, 135°– connection profile	10
E	SF45-110	Horizontal-Section, frame extension 35 mm	10
E	SF45-111	Horizontal-Section, frame extension 70 mm	10
E	SF45-112	Horizontal-Section, frame extension 105 mm (1 x 70 mm + 1 x 35 mm)	10
E	SF45-113	Horizontal-Section, frame extension 140 mm (2 x 70 mm)	11
E	SF45-117	Horizontal-Section, wall connection with straight panel quantity (z.B. 2R) / outside folding	11
E	SF45-118	Horizontal-Section, wall connection with straight panel quantity(z.B. 2R) / inside folding	11

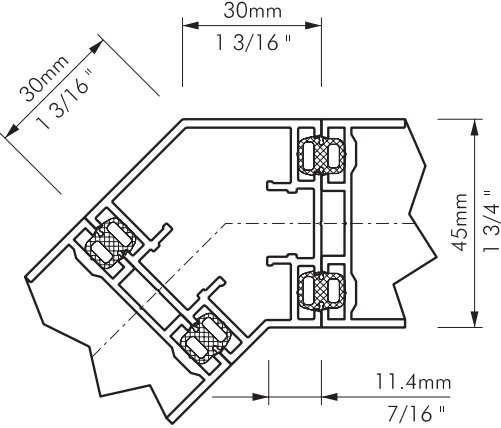
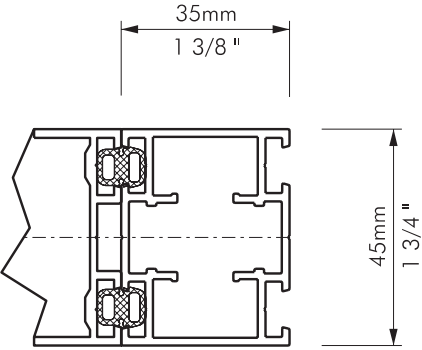
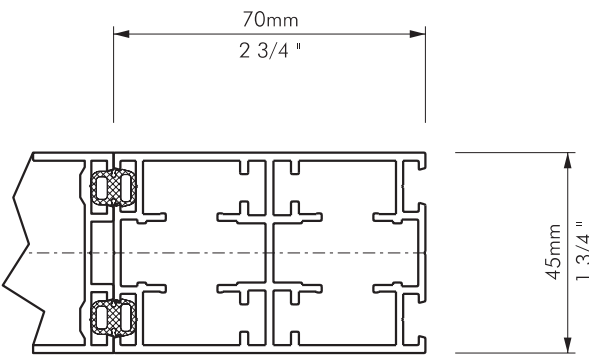
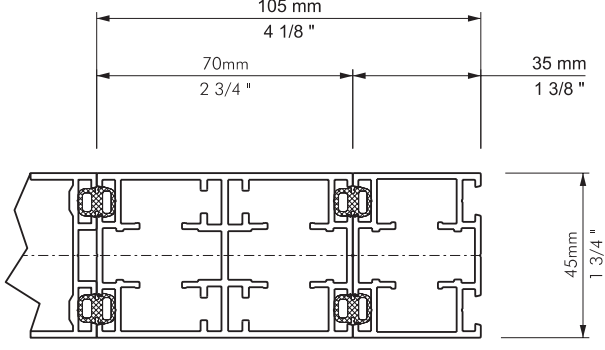
II  OUTSIDE INSIDE	F  OUTSIDE INSIDE
Description: Vertical-Section, glazing beads designs System: SF45 Detail-No.: SF45-000	Description: Vertical-Section, connection bottom track / inside folding System: SF45 Detail-No.: SF45-001
F  OUTSIDE INSIDE	F  OUTSIDE INSIDE
Description: Vertical-Section, connection bottom track / outside folding System: SF45 Detail-No.: SF45-003	Description: Vertical-Section, connection flush bottom track / inside folding System: SF45 Detail-No.: SF45-005a

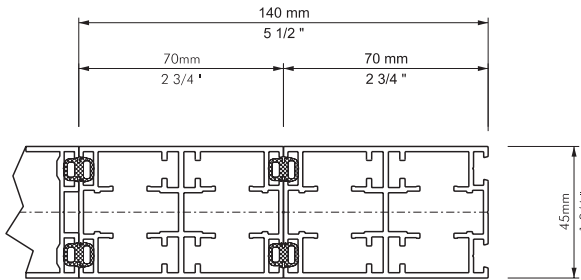
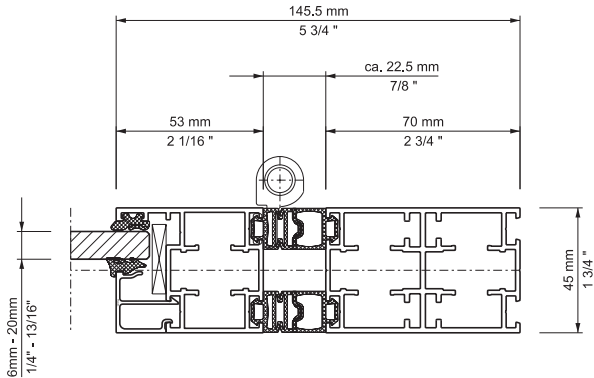
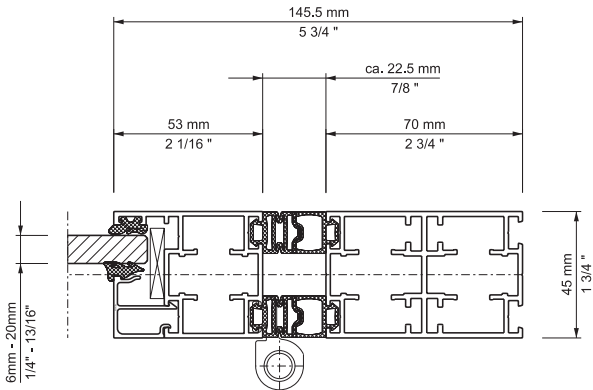
F OUTSIDE INSIDE	F OUTSIDE INSIDE
Description: Vertical-Section, connection flush bottom track / outside folding System: SF45 Detail-No.: SF45-005b	Description: Vertical-Section, connection top track / inside folding System: SF45 Detail-No.: SF45-002
F OUTSIDE INSIDE	A OUTSIDE INSIDE
Description: Vertical-Section, connection top track / outside folding System: SF45 Detail-No.: SF45-004	Description: Vertical-Section, strengthening profile for balustrade / inside folding System: SF45 Detail-No.: SF45-007

	Description: Vertical-Section, strengthening profile for overhead light / inside folding	System: SF45 Detail-No.: SF45-008
	Description: Vertical-Section, connection top track overhead light / inside folding	System: SF45 Detail-No.: SF45-009
	Description: Vertical-Section, midrail	System: SF45 Detail-No.: SF45-018
	Description: Vertical-Section, tilt and turn element	System: SF45 Detail-No.: SF45-019

E OUTSIDE INSIDE Description: Horizontal-Section, blind frame - panel closing section / inside folding System: SF45 Detail-No.: SF45-101		E OUTSIDE INSIDE Description: Horizontal-Section, blind frame - panel closing section / outside folding System: SF45 Detail-No.: SF45-102	
C OUTSIDE INSIDE Description: Horizontal-Section, panel - panel / hinge outside System: SF45 Detail-No.: SF45-103		D OUTSIDE INSIDE Description: Horizontal-Section, panel - panel / hinge inside System: SF45 Detail-No.: SF45-104	

B OUTSIDE  INSIDE Description: Horizontal-Section, vertical post - panel / hinge inside System: SF45 Detail-No.: SF45-105	B OUTSIDE  INSIDE Description: Horizontal-Section, vertical post - panel / hinge outside System: SF45 Detail-No.: SF45-104
G OUTSIDE  INSIDE Description: Horizontal-Section, panel - panel / panel section System: SF45 Detail-No.: SF45-108	E OUTSIDE  INSIDE Description: Horizontal-Section, 90°- connection profile System: SF45 Detail-No.: SF45-109a

E OUTSIDE  INSIDE Description: Horizontal-Section, 135°- connection profile System: SF45 Detail-No.: SF45-109b		E OUTSIDE  INSIDE Description: Horizontal-Section, frame extension 35 mm System: SF45 Detail-No.: SF45-110	
E OUTSIDE  INSIDE Description: Horizontal-Section, frame extension 70 mm System: SF45 Detail-No.: SF45-111		E OUTSIDE  INSIDE Description: Horizontal-Section, frame extension 105 mm (1 x 70 mm + 1 x 35 mm) System: SF45 Detail-No.: SF45-112	

E OUTSIDE  INSIDE <table><tr><td rowspan="2">Description:</td><td>Horizontal-Section, frame extension 140 mm (2 x 70 mm)</td><td>System: SF45</td></tr><tr><td></td><td>Detail-No.: SF45-113</td></tr></table>	Description:	Horizontal-Section, frame extension 140 mm (2 x 70 mm)	System: SF45		Detail-No.: SF45-113	E OUTSIDE  INSIDE <table><tr><td rowspan="2">Description:</td><td>Horizontal-Section, wall connection with straight panel quantity(z.B. 2R) / outside folding</td><td>System: SF45</td></tr><tr><td></td><td>Detail-No.: SF45-117</td></tr></table>	Description:	Horizontal-Section, wall connection with straight panel quantity(z.B. 2R) / outside folding	System: SF45		Detail-No.: SF45-117
Description:		Horizontal-Section, frame extension 140 mm (2 x 70 mm)	System: SF45								
		Detail-No.: SF45-113									
Description:	Horizontal-Section, wall connection with straight panel quantity(z.B. 2R) / outside folding	System: SF45									
		Detail-No.: SF45-117									
E OUTSIDE  INSIDE <table><tr><td rowspan="2">Description:</td><td>Horizontal-Section, wall connection with straight panel quantity(z.B. 2R) / inside folding</td><td>System: SF45</td></tr><tr><td></td><td>Detail-No.: SF45-118</td></tr></table>	Description:	Horizontal-Section, wall connection with straight panel quantity(z.B. 2R) / inside folding	System: SF45		Detail-No.: SF45-118						
Description:		Horizontal-Section, wall connection with straight panel quantity(z.B. 2R) / inside folding	System: SF45								
		Detail-No.: SF45-118									

Any questions

Tel: +44 (0)1603 424434

Email: info@sunflexuk.co.uk



Unit B1, Rhombus Business Park, Norwich NR6 6NN

Tel: +44 (0)1603 424434 | **Email:** info@sunflexuk.co.uk | **Web:** www.sunflexuk.co.uk