



Brühl Safety Doors – Solutions for any application

The following pages provide an overview of many different door assemblies of Brühl Safety GmbH. The chapter is broken down into the assemblies of wing, sliding, swing and special doors. The product tables contain all technical specifications. The corresponding door accessories, such as precisely fitting attachment systems for safety switches, are referred to on the individual product pages.

Safety doors

The matching door for any opening area

Which door is the right one for your facility access? A functional wing door, a comfortable sliding door, a self-supported sliding door without annoying guide elements in the opening area or a particularly space-saving version like the folding door or the telescopic sliding door? You can use many different door systems that meet your individual production runs.



Product description		Product group / build	Safety fence systems						
			FLEX II s. p. 30/31	FLEX II High fence planning s. p. 32/33	FENCE II Grid fillings s. p. 40/41	FENCE II Area elements s. p. 42/43	WAND II Sheet metal s. p. 50/51	WAND II Process view s. p. 52/53	
Wing doors	Wing door for handle, latch or deadlock slam lock, opposite sides	FTW	●	○	●	●	●	●	s. p. 62-75
	Wing door for handle, latch or deadlock slam lock, 1600-3000 mm	FT	●	○	●	●	●	●	
	Wing door for handle, latch or deadlock slam lock, opposite sides with skylight	FTWO	●	●	○	○	○	○	
	Portal wing door for handle, latch or deadlock slam lock, opposite sides	PFTW	●	○	●	●	●	●	
	Wing door for handle, latch or deadlock slam lock, opening inwards	FTEO	●	○	●	●	●	●	
	Double wing door for handle, latch or deadlock slam lock	DFT	●	○	●	●	●	●	
	Double wing door for handle, latch or deadlock slam lock, with skylight	DFTO	●	●	○	○	○	○	
Swing doors, door wings	Swing door	PT	●	○	●	●	●	●	s. p. 76-81
	Swing door with high post	HPT	●	○	●	●	●	●	
	Door wing for handle, latch or deadlock slam lock	TF	●	○	●	●	●	●	
Sliding doors	Sliding door for handle or hook lock	ST	●	○	●	●	●	●	s. p. 84-95
	Sliding door for handle or hook lock, inner track	STI	●	○	●	●	●	●	
	Sliding door for handle or hook lock, with skylight	STO	●	●	○	○	○	○	
	Double sliding door for handle or hook lock	DST	●	○	●	●	●	●	
	Sliding door for handle or hook lock, opening on both sides	STB	●	○	●	●	●	●	
	Double sliding door for handle or hook lock, with skylight	DSTO	●	●	○	○	○	○	
Folding wing doors, folding sliding doors	Folding hinged door for latch	FAFTR	●	○	●	●	●	●	s. p. 98-101
	Double folding hinged door for latch	DFAFTR	●	○	●	●	●	●	
	Double folding sliding door	FASTG	●	○	●	●	●	●	
	Double folding sliding door for handle	DFASTG	●	○	●	●	●	●	
Telescoping sliding doors	Sliding door for handle or hook lock, telescoping	STT	●	○	●	●	●	●	s. p. 104-109
	Sliding door for handle or hook lock, opening on both sides, telescoping	STBT	●	○	●	●	●	●	
	Double sliding door for handle or hook lock, telescoping	DSTT	●	○	●	●	●	●	
Self-supported sliding doors	Self-supported sliding door with hook lock	FSTS	●	○	●	●	●	●	s. p. 112-117
	Self-supported sliding door for handle	FSTG	●	○	●	●	●	●	
	Self-supported sliding door with hook lock and telescopic guide	FSTST	●	○	●	●	●	●	
	Self-supported sliding door for handle, with telescopic guide	FSTGT	●	○	●	●	●	●	
	Self-supported sliding door with hook lock, two wings	FSTS-2	●	○	●	●	●	●	
	Self-supported sliding door for handle, two wings	FSTG-2	●	○	●	●	●	●	
Lifting fields, Folding fields	Lifting field	HF	●	○	●	●	●	●	s. p. 120-123
	Lifting field, unilateral	HFE	●	○	●	●	●	●	
	Folding field, flap down	KF-U	●	○	●	●	●	●	
	Folding field, flap top	KF-O	●	○	●	●	●	●	

● Combination is possible. × Combination is not possible. ○ Combination is optional.

Wing doors for effective work processes

The Brühl wing doors are an optimal solution of or particularly cost-efficient and functional fence facilities. Thanks to the great diversity of this build, you will surely find the right product for any application to be integrated into your individual production processes.

Removable assembly aid – no interfering elements in the opening area

High twist resilience of the door wing

Large, stable, firmly welded four-hole ground plate

Overview: Advantages of the wing doors

Fast installation

Brühl wing doors are highly stable and ensure quick installation – without any time loss on the construction site.

Different ground clearances

All wing doors are delivered by default with a ground clearance of 175 mm or 20 mm.

Compatible

All wing doors are available in combination with our attachment systems for safety switches.

Assembly aid that can be removed

No interfering elements within the opening area.

Large opening

For the wing doors, an opening by up to 180° is possible.

Customer-specific solutions

An individual execution is possible depending on demand – in different colours and with hot-dip galvanisation.

Simple height adjustment

Height adjustment at irregular ground for easy alignment of the posts is optionally available.

Flexible planning

The door posts are provided for transit and for corner situations. These have a positive influence on the assembly time and the flexibility at the site

Maximum shock resilience

All elements are sand-blasted and powder-coated.

Technical data for standard wing doors <small>Special productions on request.</small>							
Product group/build	FTW	FT	FTWO	PFTW	FTEO	DFT	DFTO
Dimensions							
max. axle size in mm	1410	3010	1430	1410	1410	6030	2830
max. door-/fence height in mm	2600	2600	4835	2600	2600	2600	4835
Frame filling							
FLEX II	●	●	●	●	●	●	●
Wave grid 40	●	●	○	●	●	●	○
Wave grid 25	●	●	○	●	●	●	○
Welding grid 40	●	●	○	●	●	●	○
Sheet metal	●	●	○	●	●	●	○
Polycarbonate	●	●	○	●	●	●	○
Perforated sheet round holes Rv 5-8	●	●	○	●	●	●	○
Perforated sheet square holes Qg 8-12	●	●	○	●	●	●	○
Process view – Sight protection glass reddish-brown (T50)	●	●	○	●	●	●	○
Process view – Sight protection glass green (T75/T90)	●	●	○	●	●	●	○
Process view – Polycarbonate	●	●	○	●	●	●	○
Brühl door accessories							
Handle set	●	●	●	●	●	●	●
Shutting protection	●	●	●	●	×	●	●
Attachment systems for safety switches							
Handle preparation BRÜHL-GV	●	●	●	●	×	●	●
Handle system with bullet crossbow BRÜHL-GRK®	●	●	●	●	●	●	●
Retaining plate system BRÜHL-HP-F®	●	●	●	●	●	●	●
Latch system BRÜHL-RI®	●	●	●	●	×	●	●
Latch preparation BRÜHL-RV	●	●	●	●	×	●	●
Switching cam system BRÜHL-SN-F	×	●	×	×	●	●	×
Safety switch preparation BRÜHL-SV	●	●	●	●	●	●	●
Rollover latch system BRÜHL-UER®	●	●	●	●	●	●	●
Surfaces							
Powder-coating/paint	●	●	●	●	●	●	●
Hot-dip galvanised surface	●	●	●	●	●	●	●
Ground clearance							
Standard	175 mm	175 mm	175 mm	175 mm	175 mm	175 mm	175 mm
Reduced	20 mm	20 mm	20 mm	20 mm	20 mm	20 mm	20 mm

● Combination is possible. × Combination is not possible. ○ Combination is optional.

Wing door for handle, latch or mortise lock, opposite sides

Product group/build
FTW

Illustration shows FTW with door set TG-V2.



DOOR ACCESSORIES

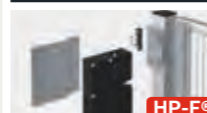


Door sets



Lock set

ATTACHMENT SYSTEMS FOR SAFETY SWITCHES



Retaining plate system



Switch preparation

- Door accessories (see p. 170) and attachment systems for safety switches (as of p. 127) must be ordered separately.
- For a combination overview of all matching door accessories and attachment systems, see p. 185.
- Please indicate safety switch and actuator types.

Illustration shows FTW with a grip system.



DOOR ACCESSORIES



Handle with bullet crossbow



Latch

ATTACHMENT SYSTEMS FOR SAFETY SWITCHES



Handle system



Latch system



Latch preparation



Handle preparation

- Door accessories (see p. 170) and attachment systems for safety switches (as of p. 127) must be ordered separately.
- For a combination overview of all matching door accessories and attachment systems, see p. 185.
- Please indicate safety switch and actuator types.

The posts of the bilateral wing door are made of a stable steel profile with welded-on square bottom plate. By default, the two door posts are prepared for a corner and passage situation. The screw-on hinges permit exchange of the stop direction at any time. The FTW build is particularly flexible and compatible with any attachment system for wing doors.

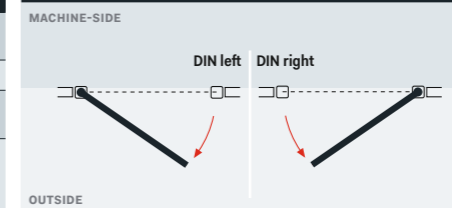
PATENT PROTECTION

Wing door for handle, latch or mortise lock, opposite sides

Build	Post profile	Wing profile		Safety fence system / filling										Ground clearance		Axle size ① from post centre to post centre ②							
				ZAUN II					WAND II							800	1000	1200	1400				
		QR25	RP106	FLEX II	Grid fillings				Area elements				Process view				Open width ③						
					FLEX II	Wave grid 40	Wave grid 25	Welding grid 40	Sheet metal	Polycarbonate	Perforated sheet Round perforation	Perforated sheet Square perforation	Sheet metal	Polycarbonate	Sight protection glass red-dish-brown	Sight protection glass green	700	900	1100	1300			
FTW	-QR50	-QR25	-RP106	-F	-Z-GF-F	-Z-GF-WG40	-Z-GF-WG25	-Z-GF-SG40	-Z-FE-BL	-Z-FE-P	-Z-FE-LBR	-Z-FE-LBQ	-W-BL	-	-	-	-175	-20	-1400	-800	-1000	-1200	-1400
FTW	-QR50	-QR25	-RP106	-F	-Z-GF-F	-Z-GF-WG40	-Z-GF-WG25	-Z-GF-SG40	-Z-FE-BL	-Z-FE-P	-Z-FE-LBR	-Z-FE-LBQ	-W-BL	-	-	-	-175	-20	-1600	-800	-1000	-1200	-1400
FTW	-QR50	-QR25	-RP106	-F	-Z-GF-F	-Z-GF-WG40	-Z-GF-WG25	-Z-GF-SG40	-Z-FE-BL	-Z-FE-P	-Z-FE-LBR	-Z-FE-LBQ	-W-BL	-	-	-	-175	-20	-1800	-800	-1000	-1200	-1400
FTW	-QR50	-QR25	-RP106	-F	-Z-GF-F	-Z-GF-WG40	-Z-GF-WG25	-Z-GF-SG40	-Z-FE-BL	-Z-FE-P	-Z-FE-LBR	-Z-FE-LBQ	-W-BL	-W-PE-P	-W-PE-SSB	-W-PE-SSG	-175	-20	-2000	-800	-1000	-1200	-1400
FTW	-QR50	-QR25	-RP106	-F	-Z-GF-F	-Z-GF-WG40	-Z-GF-WG25	-Z-GF-SG40	-Z-FE-BL	-Z-FE-P	-Z-FE-LBR	-Z-FE-LBQ	-W-BL	-W-PE-P	-W-PE-SSB	-W-PE-SSG	-175	-20	-2200	-800	-1000	-1200	-1400
FTW	-QR50	-QR25	-RP106	-F	-Z-GF-F	-Z-GF-WG40	-Z-GF-WG25	-Z-GF-SG40	-Z-FE-BL	-Z-FE-P	-Z-FE-LBR	-Z-FE-LBQ	-W-BL	-W-PE-P	-W-PE-SSB	-W-PE-SSG	-175	-20	-2400	-800	-1000	-1200	-1400
FTW	-QR60	-QR25	-RP106	-F	-Z-GF-F	-Z-GF-WG40	-Z-GF-WG25	-Z-GF-SG40	-Z-FE-BL	-Z-FE-P	-Z-FE-LBR	-Z-FE-LBQ	-W-BL	-W-PE-P	-W-PE-SSB	-W-PE-SSG	-175	-20	-2600	-800	-1000	-1200	-1400

Example for item number key Build-post profile-wing profile-safety fence system/filling-ground clearance-fence height-axle size FTW-QR50-QR25-Z-GF-WG40-175-1400-1000
For dimensions that are not in the table, SO- must be put in front of the item number and the special size must be entered in the corresponding location in the item number (e.g. SO-FTW-QR50-QR25-Z-GF-WG40-175-1400-1150 for special axle size 1150).

DOOR OPENING



- Axle size in post profile QR60 +10 mm
- For axle size definition, see p. 184.
- Width and height of lights can be reduced according to the system for safety switches, door accessories, door hinges or opening degree.
- The doors are not pre-installed by default – the opening direction can be chosen freely on site. Optionally, pre-installation is possible as well; please indicated with your order.
- Please order floor attachment media separately. See p. 188.
- Perforated sheet: Round holes Rv 5-8 / square holes Qg 8-12
- Doors by default with 175 mm ground clearance.
- Floor plates centred in the middle by default.
- For specific floor plate positioning, see p. 187.
- Doors are designed opening outwards by default.
- For doors opening inwards, see p. 70 and following.

PRODUCT OPTION: HEIGHT COMPENSATION



FLOOR ATTACHMENT

Required number	8 pcs.
Attachment type	Fixed or shear connector
Size · Length	M10 · 120/130 mm
Weight example FTW 2000 × 1000 mm	27.53 kg

SAFETY DOORS



Wing door for handle, latch or mortise lock, 1600–3000 mm

Product group/build FT

Illustration shows FT with door set TG-V2.

Illustration shows FT with a grip system.

DOOR ACCESSORIES

- TG** Door sets
- SG-F** Lock set
- STR-BR** Fixed caster

ATTACHMENT SYSTEMS FOR SAFETY SWITCHES

- HP-F®** Retaining plate system
- SN-F** Switching can system
- SV** Switch preparation

Door accessories (see p. 170) and attachment systems for safety switches (as of p. 127) must be ordered separately.

For a combination overview of all matching door accessories and attachment systems, see p. 185.

Please indicate safety switch and actuator types.

DOOR ACCESSORIES

- TZ-GRK-F** Handle with bullet crossbow
- TZ-RI-F** Latch
- STR-BR** Fixed caster

ATTACHMENT SYSTEMS FOR SAFETY SWITCHES

- GRK-F®** Handle system
- RV-F** Latch preparation
- GV-F** Handle preparation

Door accessories (see p. 170) and attachment systems for safety switches (as of p. 127) must be ordered separately.

For a combination overview of all matching door accessories and attachment systems, see p. 185.

Please indicate safety switch and actuator types.

The posts of the wing door are made of a stable steel profile with welded-on square bottom plate. By default, the two door posts are prepared for a corner and passage situation. The stable welded-on hinges implement an opening width of up to 3000 mm.

Wing door for handle, latch or mortise lock, 1600–3000 mm

Build	Stop direction		Post profile		Wing profile				Safety fence system / filling												Ground clearance		Fence height		Axle size ① from post centre to post centre ②							
									ZAUN II						WAND II										1600	1800	2000	2200	2400	2600	2800	3000
									Grid fillings				Area elements				Process view								Open width ③							
DIN left	DIN right	for axle size ≤ 2000 mm	for axle size > 2000 mm	QR25	RP106	QR35	RP1191	FLEX II	FLEX II	Wave grid 40	Wave grid 25	Welding grid 40	Sheet metal	Polycarbonate	Perforated sheet Round perforation	Perforated sheet Square holes	Sheet metal	Polycarbonate	Sight protection-pane reddish-brown	Sight protection-pane green	175 mm	20 mm	1500	1700	1900	2100	2300	2500	2700	2900		
FT	-L	-R	-QR50	-QR60	-QR25	-RP106	-QR35	-RP1191	-F	-Z-GF-F	-Z-GF-WG40	-Z-GF-WG25	-Z-GF-SG40	-Z-FE-BL	-Z-FE-P	-Z-FE-LBR	-Z-FE-LBQ	-W-BL	-	-	-	-175	-20	-1400	-1600	-1800	-2000	-2200	-2400	-2600	-2800	-3000
FT	-L	-R	-QR50	-QR60	-QR25	-RP106	-QR35	-RP1191	-F	-Z-GF-F	-Z-GF-WG40	-Z-GF-WG25	-Z-GF-SG40	-Z-FE-BL	-Z-FE-P	-Z-FE-LBR	-Z-FE-LBQ	-W-BL	-	-	-	-175	-20	-1600	-1600	-1800	-2000	-2200	-2400	-2600	-2800	-3000
FT	-L	-R	-QR50	-QR60	-QR25	-RP106	-QR35	-RP1191	-F	-Z-GF-F	-Z-GF-WG40	-Z-GF-WG25	-Z-GF-SG40	-Z-FE-BL	-Z-FE-P	-Z-FE-LBR	-Z-FE-LBQ	-W-BL	-	-	-	-175	-20	-1800	-1600	-1800	-2000	-2200	-2400	-2600	-2800	-3000
FT	-L	-R	-QR50	-QR60	-QR25	-RP106	-QR35	-RP1191	-F	-Z-GF-F	-Z-GF-WG40	-Z-GF-WG25	-Z-GF-SG40	-Z-FE-BL	-Z-FE-P	-Z-FE-LBR	-Z-FE-LBQ	-W-BL	-W-PE-P	-W-PE-SSB	-W-PE-SSG	-175	-20	-2000	-1600	-1800	-2000	-2200	-2400	-2600	-2800	-3000
FT	-L	-R	-QR50	-QR60	-QR25	-RP106	-QR35	-RP1191	-F	-Z-GF-F	-Z-GF-WG40	-Z-GF-WG25	-Z-GF-SG40	-Z-FE-BL	-Z-FE-P	-Z-FE-LBR	-Z-FE-LBQ	-W-BL	-W-PE-P	-W-PE-SSB	-W-PE-SSG	-175	-20	-2200	-1600	-1800	-2000	-2200	-2400	-2600	-2800	-3000
FT	-L	-R	-QR50	-QR60	-QR25	-RP106	-QR35	-RP1191	-F	-Z-GF-F	-Z-GF-WG40	-Z-GF-WG25	-Z-GF-SG40	-Z-FE-BL	-Z-FE-P	-Z-FE-LBR	-Z-FE-LBQ	-W-BL	-W-PE-P	-W-PE-SSB	-W-PE-SSG	-175	-20	-2400	-1600	-1800	-2000	-2200	-2400	-2600	-2800	-3000
FT	-L	-R	-QR50	-QR60	-QR25	-RP106	-QR35	-RP1191	-F	-Z-GF-F	-Z-GF-WG40	-Z-GF-WG25	-Z-GF-SG40	-Z-FE-BL	-Z-FE-P	-Z-FE-LBR	-Z-FE-LBQ	-W-BL	-W-PE-P	-W-PE-SSB	-W-PE-SSG	-175	-20	-2600	-1600	-1800	-2000	-2200	-2400	-2600	-2800	-3000

Example for item number key Build-stop direction-post profile-wing profile-safety fence system/filling-ground clearance-fence height-axle size **FT-L-QR50-QR25-Z-GF-WG40-175-1400-1600**

For dimensions that are not in the table, **SO-** must be put in front of the item number and the special size must be entered in the corresponding location in the item number (e.g. **SO-FT-L-QR50-QR25-Z-GF-WG40-175-1400-1550** for special axle size 1550).

FLOOR ATTACHMENT ④

Required number	8 pcs.
Attachment type	Fixed or shear connector
Size · Length	M10 · 120/130 mm
Weight example FT 2000 × 1600 mm	36.82 kg

DOOR OPENING

MACHINE-SIDE

OUTSIDE

DIN left DIN right

PRODUCT OPTION: HEIGHT COMPENSATION

Optional with post -J for height adjustment.

- ① Axle size in post profile QR60 +10 mm
- ② For axle size definition, see p. 184.
- ③ Width and height of lights can be reduced according to the system for safety switches, door accessories, door hinges or opening degree.
- ④ Please order floor attachment media separately. See p. 168.
- ⑤ Perforated sheet: Round holes Rv 5-8 / square holes Qg 8-12
- ⑥ Doors by default with 175 mm ground clearance.
- ⑦ Floor plates centred in the middle by default. For specific floor plate positioning, see p. 187.
- ⑧ Fixed caster included in the delivery.

CAD
MOV
PICT

Wing door for handle, latch or mortise lock, opposite sides, with skylight

Product group/build
FTWO

Illustration shows FTWO with door set TG-V2.

DOOR ACCESSORIES

Door sets **TG**

Lock set **SG-F**

ATTACHMENT SYSTEMS FOR SAFETY SWITCHES

Retaining plate system **HP-F**

Switch preparation **SV**

- Door accessories (see p. 170) and attachment systems for safety switches (as of p. 127) must be ordered separately.
- For a combination overview of all matching door accessories and attachment systems, see p. 185.
- Please indicate safety switch and actuator types.

Illustration shows FTWO with a grip system.

DOOR ACCESSORIES

Handle with bullet crossbow **TZ-GRK-F**

Latch **TZ-RI-F**

ATTACHMENT SYSTEMS FOR SAFETY SWITCHES

Handle system **GRK-F**

Latch system **RI-F**

Handle preparation **GV-F**

Latch preparation **RV-F**

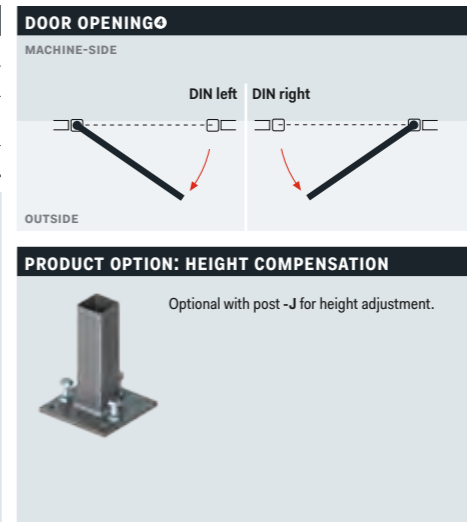
- Door accessories (see p. 170) and attachment systems for safety switches (as of p. 127) must be ordered separately.
- For a combination overview of all matching door accessories and attachment systems, see p. 185.
- Please indicate safety switch and actuator types.

Wing door for handle, latch or mortise lock, opposite sides, with skylight												
Build	Post profile	Wing profile	Safety fence system	Ground clearance		Fence height	Axle size ① from post centre to post centre ②					
				QR25	FLEX II		175 mm	20 mm	800	1000	1200	1400
									Open width ③			
		QR25	FLEX II	175 mm	20 mm	700	900	1100	1300			
FTWO	-QR50	-QR25	-F	-175	-20	-2400	-800	-1000	-1200	-1400		
FTWO	-QR60	-QR25	-F	-175	-20	-2600	-800	-1000	-1200	-1400		
FTWO	-QR60	-QR25	-F	-175	-20	-2835	-800	-1000	-1200	-1400		
FTWO	-QR60	-QR25	-F	-175	-20	-3035	-800	-1000	-1200	-1400		
FTWO	-QR80	-QR25	-F	-175	-20	-3235	-800	-1000	-1200	-1400		
FTWO	-QR80	-QR25	-F	-175	-20	-3435	-800	-1000	-1200	-1400		
FTWO	-QR80	-QR25	-F	-175	-20	-3635	-800	-1000	-1200	-1400		
FTWO	-QR80	-QR25	-F	-175	-20	-3835	-800	-1000	-1200	-1400		
FTWO	-QR80	-QR25	-F	-175	-20	-4035	-800	-1000	-1200	-1400		
FTWO	-QR80	-QR25	-F	-175	-20	-4235	-800	-1000	-1200	-1400		
FTWO	-QR80	-QR25	-F	-175	-20	-4435	-800	-1000	-1200	-1400		
FTWO	-QR80	-QR25	-F	-175	-20	-4635	-800	-1000	-1200	-1400		
FTWO	-QR80	-QR25	-F	-175	-20	-4835	-800	-1000	-1200	-1400		

Example for item number key Build-post profile-wing profile-safety fence system/filling-ground clearance-fence height-axle size **FTWO-QR50-QR25-F-175-2400-1000**
 For dimensions that are not in the table, **SO-** must be put in front of the item number and the special size must be entered in the corresponding location in the item number (e.g. **SO-FTWO-QR50-QR25-F-175-2400-1350** for special axle size 1350).

FLOOR ATTACHMENT ④	
Required number	8 pcs.
Attachment type	Fixed or shear connector
Size · Length	M10 · 120/130 mm M12 · 145/160 mm ⑤
Weight example FTWO 2400x1000 mm	34.5 kg

- ① Axle size at post profile QR60 +10 mm, at post profile QR80 +30 mm
- ② For axle size definition, see p. 184.
- ③ Width and height of lights can be reduced according to the system for safety switches, door accessories, door hinges or opening degree.
- ④ The doors are not pre-installed by default – the opening direction can be chosen freely on site. Optionally, pre-installation is possible as well; please indicated with your order.
- ⑤ Please order floor attachment media separately. See p. 168.
- ⑥ As of a height of 3235 mm, use M12.
- ⑦ Doors by default with 175 mm ground clearance.
- ⑧ Floor plates centred in the middle by default. For specific floor plate positioning, see p. 187.



The posts of the wing door with skylight are made of a stable steel profile with welded-on square bottom plate. By default, the two door posts are prepared for a corner and passage situation. The screw-on hinges permit exchange of the stop direction at any time. The FTWO build is particularly flexible and compatible with any attachment system for wing doors. Both posts are connected to each other with a transom profile and a skylight grid mat.

SAFETY DOORS



Portal wing door for handle, latch or mortise lock, opposite sides

Product group/build
PFTW

Illustration shows PFTW with door set TG-V2.

MACHINE-SIDE
OUTSIDE

DOOR ACCESSORIES

Door sets **TG**

Lock set **SG-F**

ATTACHMENT SYSTEMS FOR SAFETY SWITCHES

Retaining plate system **HP-F**

Switch preparation **SV**

Door accessories (see p. 170) and attachment systems for safety switches (as of p. 127) must be ordered separately.

For a combination overview of all matching door accessories and attachment systems, see p. 185.

Please indicate safety switch and actuator types.

Illustration shows PFTW with a grip system.

OUTSIDE
MACHINE-SIDE

DOOR ACCESSORIES

Handle with bullet crossbow **TZ-GRK-F**

Latch **TZ-RI-F**

ATTACHMENT SYSTEMS FOR SAFETY SWITCHES

Handle system **GRK-F**

Latch system **RI-F**

Handle preparation **GV-F**

Latch preparation **RV-F**

Door accessories (see p. 170) and attachment systems for safety switches (as of p. 127) must be ordered separately.

For a combination overview of all matching door accessories and attachment systems, see p. 185.

Please indicate safety switch and actuator types.

The posts of the portal wing doors are connected to each other by a welded steel profile. By default, the two door posts are prepared for a corner and passage situation. The screw-on hinges permit exchange of the stop direction at any time.

Portal wing door for handle, latch or mortise lock, opposite sides

Product group/build	Post profile	Wing profile		Safety fence system / filling													Ground clearance		Fence height	Axle size ① from post centre to post centre ②				Passage height
				ZAUN II						WAND II										Open width ③				
		QR25	RP106	ZAUN II - Grid fillings (-GF)			ZAUN II - Area elements (-FE)			Sheet metal	WAND II - Process view (-PE)				175 mm	20 mm	700	900		1100	1300			
				FLEX II	FLEX II	Wave grid 40	Wave grid 25	Welding grid 40	Sheet metal		Polycarbonate	Perforated sheet Round perforation	Perforated sheet Square perforation	Sheet metal								Polycarbonate	Sight protection glass red-dish-brown	
PFTW	-QR50	-QR25	-RP106	-F	-Z-GF-F	-Z-GF-WG40	-Z-GF-WG25	-Z-GF-SG40	-Z-FE-BL	-Z-FE-P	-Z-FE-LBR	-Z-FE-LBQ	-W-BL	-	-	-	-175	-20	-1400	-800	-1000	-1200	-1400	2210
PFTW	-QR50	-QR25	-RP106	-F	-Z-GF-F	-Z-GF-WG40	-Z-GF-WG25	-Z-GF-SG40	-Z-FE-BL	-Z-FE-P	-Z-FE-LBR	-Z-FE-LBQ	-W-BL	-	-	-	-175	-20	-1600	-800	-1000	-1200	-1400	2210
PFTW	-QR50	-QR25	-RP106	-F	-Z-GF-F	-Z-GF-WG40	-Z-GF-WG25	-Z-GF-SG40	-Z-FE-BL	-Z-FE-P	-Z-FE-LBR	-Z-FE-LBQ	-W-BL	-	-	-	-175	-20	-1800	-800	-1000	-1200	-1400	2210
PFTW	-QR50	-QR25	-RP106	-F	-Z-GF-F	-Z-GF-WG40	-Z-GF-WG25	-Z-GF-SG40	-Z-FE-BL	-Z-FE-P	-Z-FE-LBR	-Z-FE-LBQ	-W-BL	-W-PE-P	-W-PE-SSB	-W-PE-SSG	-175	-20	-2000	-800	-1000	-1200	-1400	2210
PFTW	-QR50	-QR25	-RP106	-F	-Z-GF-F	-Z-GF-WG40	-Z-GF-WG25	-Z-GF-SG40	-Z-FE-BL	-Z-FE-P	-Z-FE-LBR	-Z-FE-LBQ	-W-BL	-W-PE-P	-W-PE-SSB	-W-PE-SSG	-175	-20	-2200	-800	-1000	-1200	-1400	2210
PFTW	-QR50	-QR25	-RP106	-F	-Z-GF-F	-Z-GF-WG40	-Z-GF-WG25	-Z-GF-SG40	-Z-FE-BL	-Z-FE-P	-Z-FE-LBR	-Z-FE-LBQ	-W-BL	-W-PE-P	-W-PE-SSB	-W-PE-SSG	-175	-20	-2400	-800	-1000	-1200	-1400	2410
PFTW	-QR60	-QR25	-RP106	-F	-Z-GF-F	-Z-GF-WG40	-Z-GF-WG25	-Z-GF-SG40	-Z-FE-BL	-Z-FE-P	-Z-FE-LBR	-Z-FE-LBQ	-W-BL	-W-PE-P	-W-PE-SSB	-W-PE-SSG	-175	-20	-2600	-800	-1000	-1200	-1400	2610

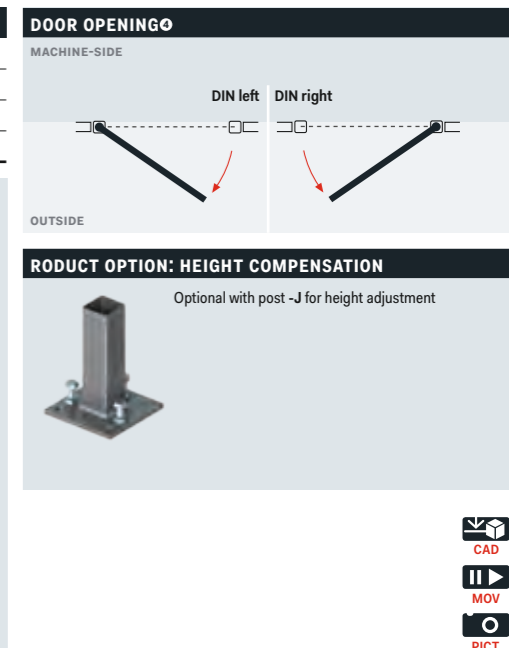
Example for item number key Build-post profile-wing profile-safety fence system/filling-ground clearance-fence height-axle size **PFTW-QR50-QR25-Z-GF-WG40-175-1400-1000**

For dimensions that are not in the table, **SO-** must be put in front of the item number and the special size must be entered in the corresponding location in the item number (e.g. **SO-PFTW-QR50-QR25-Z-GF-WG40-175-2400-1350** for special axle size 1350).

FLOOR ATTACHMENT ④

Required number	8 pcs.
Attachment type	Fixed or shear connector
Size · Length	M10 · 120/130 mm
Weight example PFTW 2000x1000 mm	31.83 kg

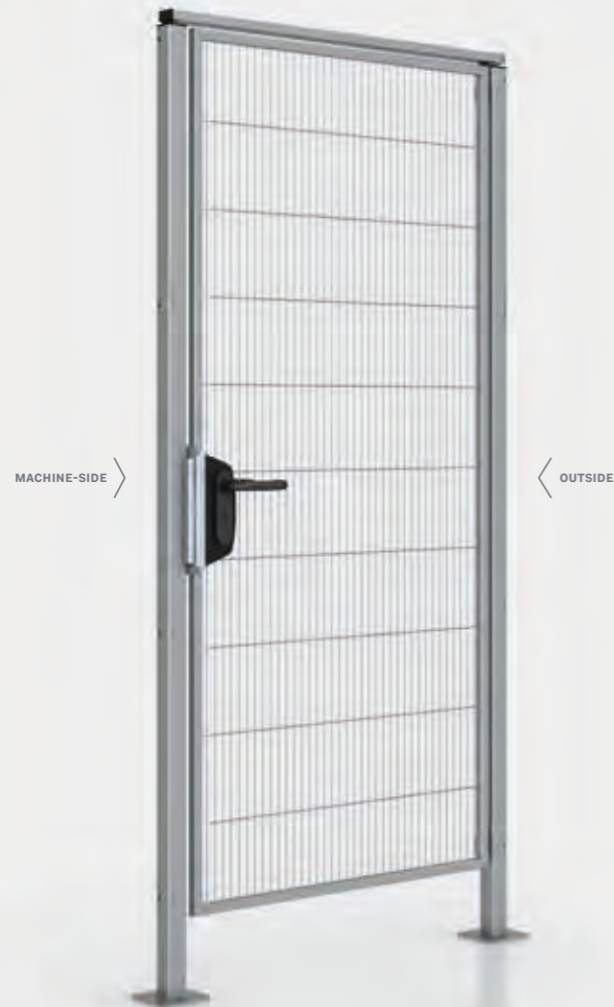
① Axle size in post profile QR60 +10 mm
 ② For axle size definition, see p. 184.
 ③ Width and height of lights can be reduced according to the system for safety switches, door accessories, door hinges or opening degree.
 ④ The doors are not pre-installed by default – the opening direction can be chosen freely on site. Optionally, pre-installation is possible as well; please indicated with your order.
 ⑤ Please order floor attachment media separately. See p. 168.
 ⑥ Perforated sheet: Round holes Rv 5-8 / square holes Qg 8-12
 ⑦ Doors by default with 175 mm ground clearance.
 ⑧ Floor plates centred in the middle by default.
 For specific floor plate positioning, see p. 187.



Wing door for handle, latch or mortise lock, opening inwards

Product group/build
FTEO

Illustration shows FTEO with door set TG-V2.



DOOR ACCESSORIES

TG
Door sets

SG-FEO
Lock set

ATTACHMENT SYSTEMS FOR SAFETY SWITCHES

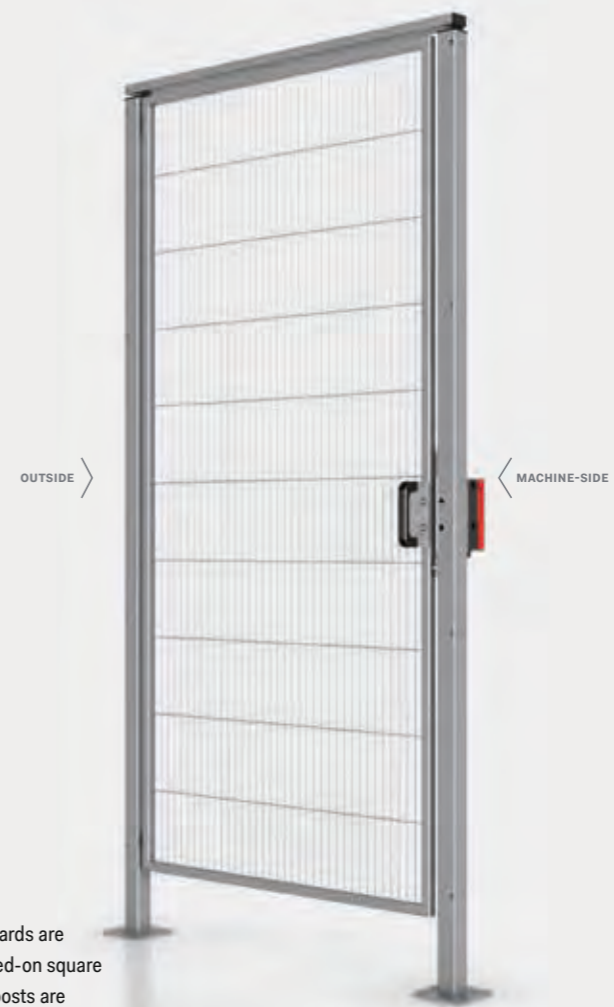
HP-FEO
Retaining plate system

SN-F
Switching cam system

SV
Switch preparation

- Door accessories (see p. 170) and attachment systems for safety switches (as of p. 127) must be ordered separately.
- For a combination overview of all matching door accessories and attachment systems, see p. 185.
- Please indicate safety switch and actuator types.

Illustration shows FTEO with a grip system.



DOOR ACCESSORIES

TZ-GR-S
Handle

ATTACHMENT SYSTEMS FOR SAFETY SWITCHES

GRK-FEO
Handle system

- Door accessories (see p. 170) and attachment systems for safety switches (as of p. 127) must be ordered separately.
- For a combination overview of all matching door accessories and attachment systems, see p. 185.
- Please indicate safety switch and actuator types.

The posts of the wing door opening inwards are made of a stable steel profile with welded-on square bottom plate. By default, the two door posts are prepared for a corner and passage situation. The door wing is constructionally designed to open inwards.

Wing door for handle, latch or mortise lock, opening inwards

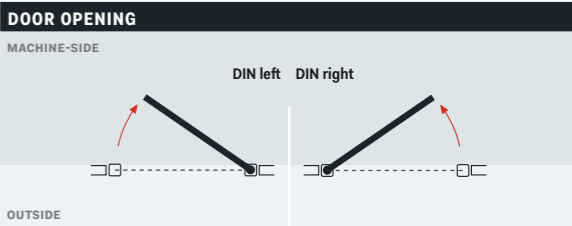
Build	Stop direction		Wing profile	Safety fence system / filling												Ground clearance		Fence height	Axle size ① from post centre to post centre ②						
				ZAUN II						WAND II									800	1000	1200	1400			
	DIN left	DIN right		Post profile	Grid fillings			Area elements			Process view			Open width ③											
					QR25	RP106	FLEX II	Wave grid 40	Wave grid 25	Welding grid 40	Sheet metal	Polycarbonate	Perforated sheet Round	Perforated sheet Square	Sheet metal	Polycarbonate	Sight protection glass red-dish-brown		Sight protection glass green	175 mm	20 mm	700	900	1100	1300
FTEO	-L	-R	-QR50	-QR25	-RP106	-F	-Z-GF-F	-Z-GF-WG40	-Z-GF-WG25	-Z-GF-SG40	-Z-FE-BL	-Z-FE-P	-Z-FE-LBR	-Z-FE-LBQ	-W-BL	-	-	-	-175	-20	-1400	-800	-1000	-1200	-1400
FTEO	-L	-R	-QR50	-QR25	-RP106	-F	-Z-GF-F	-Z-GF-WG40	-Z-GF-WG25	-Z-GF-SG40	-Z-FE-BL	-Z-FE-P	-Z-FE-LBR	-Z-FE-LBQ	-W-BL	-	-	-	-175	-20	-1600	-800	-1000	-1200	-1400
FTEO	-L	-R	-QR50	-QR25	-RP106	-F	-Z-GF-F	-Z-GF-WG40	-Z-GF-WG25	-Z-GF-SG40	-Z-FE-BL	-Z-FE-P	-Z-FE-LBR	-Z-FE-LBQ	-W-BL	-	-	-	-175	-20	-1800	-800	-1000	-1200	-1400
FTEO	-L	-R	-QR50	-QR25	-RP106	-F	-Z-GF-F	-Z-GF-WG40	-Z-GF-WG25	-Z-GF-SG40	-Z-FE-BL	-Z-FE-P	-Z-FE-LBR	-Z-FE-LBQ	-W-BL	-W-PE-P	-W-PE-SSB	-W-PE-SSG	-175	-20	-2000	-800	-1000	-1200	-1400
FTEO	-L	-R	-QR50	-QR25	-RP106	-F	-Z-GF-F	-Z-GF-WG40	-Z-GF-WG25	-Z-GF-SG40	-Z-FE-BL	-Z-FE-P	-Z-FE-LBR	-Z-FE-LBQ	-W-BL	-W-PE-P	-W-PE-SSB	-W-PE-SSG	-175	-20	-2200	-800	-1000	-1200	-1400
FTEO	-L	-R	-QR50	-QR25	-RP106	-F	-Z-GF-F	-Z-GF-WG40	-Z-GF-WG25	-Z-GF-SG40	-Z-FE-BL	-Z-FE-P	-Z-FE-LBR	-Z-FE-LBQ	-W-BL	-W-PE-P	-W-PE-SSB	-W-PE-SSG	-175	-20	-2400	-800	-1000	-1200	-1400
FTEO	-L	-R	-QR60	-QR25	-RP106	-F	-Z-GF-F	-Z-GF-WG40	-Z-GF-WG25	-Z-GF-SG40	-Z-FE-BL	-Z-FE-P	-Z-FE-LBR	-Z-FE-LBQ	-W-BL	-W-PE-P	-W-PE-SSB	-W-PE-SSG	-175	-20	-2600	-800	-1000	-1200	-1400

Example for item number key Build-stop direction-post profile-wing profile-safety fence system/filling-ground clearance-fence height-axle size **FTEO-L-QR50-QR25-Z-GF-WG40-20-1400-1000**
For dimensions that are not in the table, **SO-** must be put in front of the item number and the special size must be entered in the corresponding location in the item number (e.g. **SO-FTEO-L-QR50-QR25-Z-GF-WG40-20-1400-1350** for special axle size 1350).

FLOOR ATTACHMENT ④

Required number	8 pcs.
Attachment type	Fixed or shear connector
Size · Length	M10 · 120/130 mm
Weight example FTEO 2000x1000 mm	27.53 kg

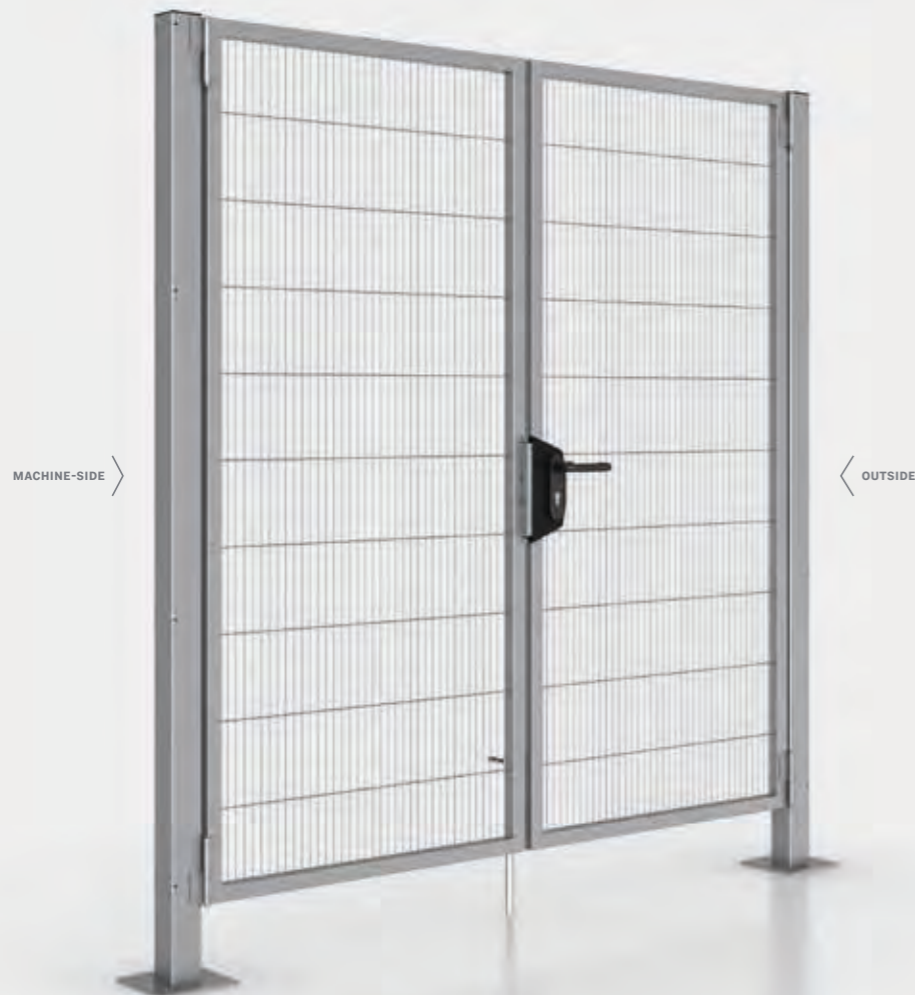
- ① Axle size at post profile QR60 + 10 mm
 - ② For axle size definition, see p. 184.
 - ③ Width and height of lights can be reduced according to the system for safety switches, door accessories, door hinges or opening degree.
 - ④ Please order floor attachment media separately. See p. 168.
 - ⑤ Perforated sheet: Round holes Rv 5-8 / square holes Qg 8-12
 - ⑥ Doors by default with 175 mm ground clearance.
 - ⑦ Floor plates centred in the middle by default.
- For specific floor plate positioning, see p. 187.



Double wing door for handle, latch or mortise lock

Product group/build
DFT

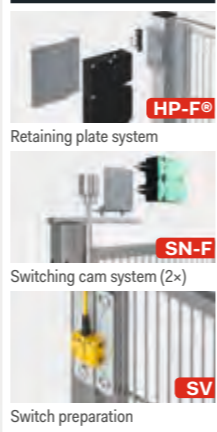
Illustration shows DFT with door set TG-V2.



DOOR ACCESSORIES



ATTACHMENT SYSTEMS FOR SAFETY SWITCHES

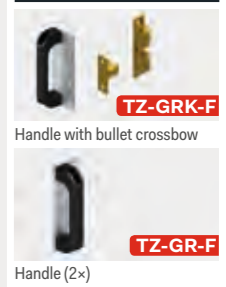


- Door accessories (see p. 170) and attachment systems for safety switches (as of p. 127) must be ordered separately.
- For a combination overview of all matching door accessories and attachment systems, see p. 185.
- Please indicate safety switch and actuator types.

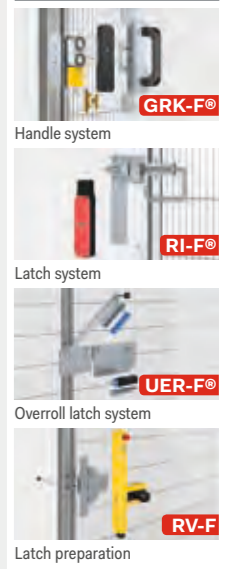
Illustration shows DFT with an overroll latch system.



DOOR ACCESSORIES



ATTACHMENT SYSTEMS FOR SAFETY SWITCHES



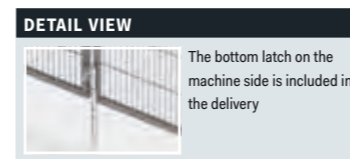
- Door accessories (see p. 170) and attachment systems for safety switches (as of p. 127) must be ordered separately.
- For a combination overview of all matching door accessories and attachment systems, see p. 185.
- Please indicate safety switch and actuator types.

The stop posts of the double wing door are made of a stable steel profile with welded-on square bottom plate. By default, the two door posts are prepared for a corner and passage situation. The welded-on hinges implement an opening width of up to 4000 mm.

Double wing door for handle, latch or mortise lock

Build	Stop direction	Post profile	Wing profile		Safety fence system / filling													Ground clearance		Axle size ① from post centre to post centre ②									
					ZAUN II						WAND II									Open width ③									
					Grid fillings			Area elements			Process view									1445	1645	...	5625	5825					
					for axle size ≤ 2800 mm	for axle size > 2800 mm		FLEX II	FLEX II	Wave grid 40	Wave grid 25	Welding grid 40	Sheet metal	Polycarbonate	Perforated sheet Round perforation	Perforated sheet Square perforation	Sheet metal			Polycarbonate	Sight protection glass red-dish-brown	Sight protection glass green	175 mm	20 mm	Fence height	1600	1800	...	5800
DFT	-L	-R	QR60	QR80	QR35	RP106	QR35	RP1191	-F	-Z-GF-F	-Z-GF-WG40	-Z-GF-WG25	-Z-GF-SG40	-Z-FE-BL	-Z-FE-P	-Z-FE-LBR	-Z-FE-LBQ	-W-BL	-	-	-	-175	-20	-1400	-1600	-1800	...	-5800	-6000
DFT	-L	-R	QR60	QR80	QR35	RP106	QR35	RP1191	-F	-Z-GF-F	-Z-GF-WG40	-Z-GF-WG25	-Z-GF-SG40	-Z-FE-BL	-Z-FE-P	-Z-FE-LBR	-Z-FE-LBQ	-W-BL	-	-	-	-175	-20	-1600	-1600	-1800	...	-5800	-6000
DFT	-L	-R	QR60	QR80	QR35	RP106	QR35	RP1191	-F	-Z-GF-F	-Z-GF-WG40	-Z-GF-WG25	-Z-GF-SG40	-Z-FE-BL	-Z-FE-P	-Z-FE-LBR	-Z-FE-LBQ	-W-BL	-	-	-	-175	-20	-1800	-1600	-1800	...	-5800	-6000
DFT	-L	-R	QR60	QR80	QR35	RP106	QR35	RP1191	-F	-Z-GF-F	-Z-GF-WG40	-Z-GF-WG25	-Z-GF-SG40	-Z-FE-BL	-Z-FE-P	-Z-FE-LBR	-Z-FE-LBQ	-W-BL	-W-PE-P	-W-PE-SSB	-W-PE-SSG	-175	-20	-2000	-1600	-1800	...	-5800	-6000
DFT	-L	-R	QR60	QR80	QR35	RP106	QR35	RP1191	-F	-Z-GF-F	-Z-GF-WG40	-Z-GF-WG25	-Z-GF-SG40	-Z-FE-BL	-Z-FE-P	-Z-FE-LBR	-Z-FE-LBQ	-W-BL	-W-PE-P	-W-PE-SSB	-W-PE-SSG	-175	-20	-2200	-1600	-1800	...	-5800	-6000
DFT	-L	-R	QR60	QR80	QR35	RP106	QR35	RP1191	-F	-Z-GF-F	-Z-GF-WG40	-Z-GF-WG25	-Z-GF-SG40	-Z-FE-BL	-Z-FE-P	-Z-FE-LBR	-Z-FE-LBQ	-W-BL	-W-PE-P	-W-PE-SSB	-W-PE-SSG	-175	-20	-2400	-1600	-1800	...	-5800	-6000
DFT	-L	-R	QR60	QR80	QR35	RP106	QR35	RP1191	-F	-Z-GF-F	-Z-GF-WG40	-Z-GF-WG25	-Z-GF-SG40	-Z-FE-BL	-Z-FE-P	-Z-FE-LBR	-Z-FE-LBQ	-W-BL	-W-PE-P	-W-PE-SSB	-W-PE-SSG	-175	-20	-2600	-1600	-1800	...	-5800	-6000

Example for item number key Build-stop direction-post profile-wing profile-safety fence system/filling-ground clearance-fence height-axle size **DFT-L-QR60-QR35-Z-GF-F-20-2200-2410**
For dimensions that are not in the table, **SO-** must be put in front of the item number and the special size must be entered in the corresponding location in the item number (e.g. **SO-DFT-L-QR60-QR35-Z-GF-F-20-2200-2410-1750** for special axle size 1750).



FLOOR ATTACHMENT ④

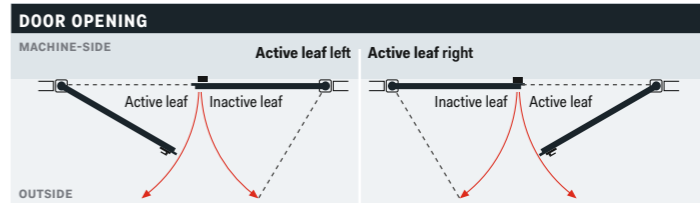
Required number	8 pcs.
Attachment type	Fixed or shear connector
Size · Length	M10 · 120/130 mm / M12 · 145/160 mm ⑤
Weight example DFT 2000×2010 mm	48.45 kg

PRODUCT OPTION: HEIGHT COMPENSATION

Optional with post -J for height adjustment.

- ① Axle size at post profile QR60 +10 mm, at post profile QR80 +30 mm
- ② For axle size definition, see p. 184.
- ③ Width and height of lights can be reduced according to the system for safety switches, door accessories, door hinges or opening degree.
- ④ Please order floor attachment media separately. See p. 168.
- ⑤ As of an axle size of 2610 mm, use M12.
- ⑥ Perforated sheet: Round holes Rv 5-8 / square holes Qg 8-12
- ⑦ Doors by default with 175 mm ground clearance.
- ⑧ Floor plates centred in the middle by default.

For specific floor plate positioning, see p. 187.



Double wing door for handle, latch or mortise lock, with skylight

Product group/build
DFTO

Illustration shows DFTO with door set TG-V2.



DOOR ACCESSORIES



Door sets



Lock set

ATTACHMENT SYSTEMS FOR SAFETY SWITCHES



Retaining plate system



Switch preparation

- Door accessories (see p. 170) and attachment systems for safety switches (as of p. 127) must be ordered separately.
- For a combination overview of all matching door accessories and attachment systems, see p. 185.
- Please indicate safety switch and actuator types.

Illustration shows DFTO with an overroll latch system.



DOOR ACCESSORIES



Handle with bullet crossbow



Handle (2x)

ATTACHMENT SYSTEMS FOR SAFETY SWITCHES



Handle system



Latch system



Overroll latch system



Latch preparation

- Door accessories (see p. 170) and attachment systems for safety switches (as of p. 127) must be ordered separately.
- For a combination overview of all matching door accessories and attachment systems, see p. 185.
- Please indicate safety switch and actuator types.

The stop posts of the double wing door with skylight are made of a stable steel profile with welded-on square bottom plate. Both posts are connected to each other with a transom profile and a skylight grid mat. By default, the two door posts are prepared for a corner and passage situation. The welded-on hinges implement an opening width of up to 2800 mm.

Double wing door for handle, latch or mortise lock, with skylight

Build	Stop direction		Post profile	Wing profile	Safety fence system	Ground clearance		Fence height	Axle size ① from post centre to post centre ②							
	Active leaf left	Active leaf right				FLEX II	175 mm		20 mm	Open width ③						
	1600	1800								2000	2200	2400	2600	2800		
DFTO	-L	-R	-QR50	-QR35	-F	-175	-20	-2400	-1600	-1800	-2000	-2200	-2400	-2600	-2800	
DFTO	-L	-R	-QR60	-QR35	-F	-175	-20	-2600	-1600	-1800	-2000	-2200	-2400	-2600	-2800	
DFTO	-L	-R	-QR60	-QR35	-F	-175	-20	-2835	-1600	-1800	-2000	-2200	-2400	-2600	-2800	
DFTO	-L	-R	-QR60	-QR35	-F	-175	-20	-3035	-1600	-1800	-2000	-2200	-2400	-2600	-2800	
DFTO	-L	-R	-QR80	-QR35	-F	-175	-20	-3235	-1600	-1800	-2000	-2200	-2400	-2600	-2800	
DFTO	-L	-R	-QR80	-QR35	-F	-175	-20	-3435	-1600	-1800	-2000	-2200	-2400	-2600	-2800	
DFTO	-L	-R	-QR80	-QR35	-F	-175	-20	-3635	-1600	-1800	-2000	-2200	-2400	-2600	-2800	
DFTO	-L	-R	-QR80	-QR35	-F	-175	-20	-3835	-1600	-1800	-2000	-2200	-2400	-2600	-2800	
DFTO	-L	-R	-QR80	-QR35	-F	-175	-20	-4035	-1600	-1800	-2000	-2200	-2400	-2600	-2800	
DFTO	-L	-R	-QR80	-QR35	-F	-175	-20	-4235	-1600	-1800	-2000	-2200	-2400	-2600	-2800	
DFTO	-L	-R	-QR80	-QR35	-F	-175	-20	-4435	-1600	-1800	-2000	-2200	-2400	-2600	-2800	
DFTO	-L	-R	-QR80	-QR35	-F	-175	-20	-4635	-1600	-1800	-2000	-2200	-2400	-2600	-2800	
DFTO	-L	-R	-QR80	-QR35	-F	-175	-20	-4835	-1600	-1800	-2000	-2200	-2400	-2600	-2800	

Example for item number key Build-stop direction-post profile-wing profile-safety fence system-ground clearance-fence height-axle size **DFTO-L-QR80-QR35-F-175-4035-2800**

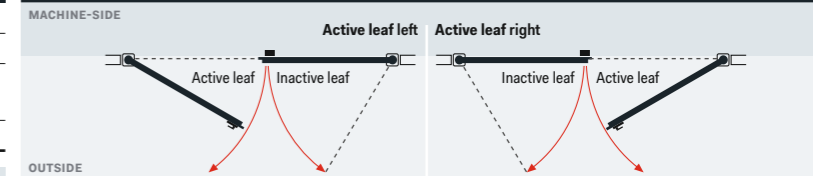
For dimensions that are not in the table, **SO-** must be put in front of the item number and the special size must be entered in the corresponding location in the item number (e.g. **SO-DFTO-L-QR50-QR35-F-175-2400-1750** for special axle size 1750).

FLOOR ATTACHMENT ④

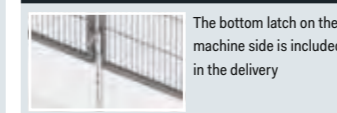
Required number	8 pcs.
Attachment type	Fixed or shear connector
Size · Length	M10 · 120/130 mm M12 · 145/160 mm ⑤
Weight example DFTO 2000x2000 mm	58.04 kg

- ① Axle size at post profile QR60 +10 mm, at post profile QR80 +30 mm
- ② For axle size definition, see p. 184.
- ③ Width and height of lights can be reduced according to the system for safety switches, door accessories, door hinges or opening degree.
- ④ Please order floor attachment media separately. See p. 168.
- ⑤ As of a height of 3235 mm, use M12.
- ⑥ Perforated sheet: Round holes Rv 5-8 / square holes Qg 8-12
- ⑦ Doors by default with 175 mm ground clearance.
- ⑧ DFT is also available in different wing sizes.
- ⑨ Floor plates centred in the middle by default. For specific floor plate positioning, see p. 187.

DOOR OPENING



DETAIL VIEW



The bottom latch on the machine side is included in the delivery

PRODUCT OPTION: HEIGHT COMPENSATION



Optional with post -J for height adjustment.

Swing doors and door wing

Individuality for effective work processes

Swing doors permit quick access to the machine area and are particularly suitable for use on turning tables or assembly belts. Door wings are integrated directly at your machine and usually used in removal and equipment stations.

Fastest access to the machine area

Safety switch attachment in combination with switching cam system SN-F

Swing doors permit adjustment to the contour of the machine

Overview: Advantages...

... of the swing doors

High stability

Robust and durable hinges corresponding to the size.

Quick access

Quick access to the machine area is ensured.

Individuality

Individual contour adjustment to the machine is possible.

... of the door wing

Integration

The door wings can be integrated into any access of machines or systems in which attachment options are constructionally present. This permits a consistent appearance of the entire course of the fence.

Different ground clearances

All doors are delivered by default with a ground clearance of 175 mm or 20 mm.

Compatible

The door wings are compatible with the Brühl attachment system for safety switches.

... both

Fast installation

Brühl doors are highly stable and ensure quick installation – without any time loss on the construction site.

Maximum shock resilience

All elements are sand-blasted and powder-coated.

Technical data for standard swing doors and door wings Special productions on request.

Product group/build	PT	HPT	TF
Dimensions			
max. distance from the outer edge of the post to the outer edge of the wing	1400	1400	x
max. open width in mm	x	x	1350
max. door-/fence height in mm	2600	2600	2600
Frame filling			
FLEX II	●	●	●
Wave grid 40	●	●	●
Wave grid 25	●	●	●
Welding grid 40	●	●	●
Sheet metal	●	●	●
Polycarbonate	●	●	●
Perforated sheet round holes Rv 5-8	●	●	●
Perforated sheet square holes Qg 8-12	●	●	●
Process view – Sight protection glass reddish-brown	x	x	●
Process view – Sight protection glass green	x	x	●
Process view – Polycarbonate	x	x	●
Attachment systems for safety switches			
Handle preparation BRÜHL-GV	x	x	●
Handle system with bullet crossbow BRÜHL-GRK®	x	x	●
Retaining plate system BRÜHL-HP-F®	x	x	●
Latch system BRÜHL-Rl®	x	x	●
Latch preparation BRÜHL-RV	x	x	●
Switching cam system BRÜHL-SN-F	●	●	x
Safety switch preparation BRÜHL-SV	x	x	●
Rollover latch system BRÜHL-UER®	x	x	●
Surfaces			
Powder-coating/paint	●	●	●
Hot-dip galvanised surface	●	●	●
Ground clearance			
Standard	175 mm	175 mm	175 mm
Reduced	x	x	20 mm

● Combination is possible. x Combination is not possible. ○ Combination is optional.

Swing door

Swing door with high post

Product group/build
PT

Illustration shows PT with a switching can system.

ATTACHMENT SYSTEMS FOR SAFETY SWITCHES

 Switching can system

- ➔ Attachment systems for safety switches (as of p. 127) must be ordered separately.
- ➔ For a combination overview of all matching door accessories and attachment systems, see p. 185.
- ➔ Please indicate safety switch and actuator types.

Product group/build
HPT

Illustration shows HPT with a switching can system.

ATTACHMENT SYSTEMS FOR SAFETY SWITCHES

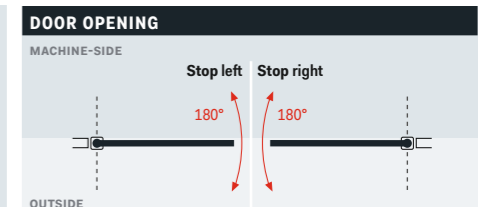
 Switching can system

- ➔ Attachment systems for safety switches (as of p. 127) must be ordered separately.
- ➔ For a combination overview of all matching door accessories and attachment systems, see p. 185.
- ➔ Please indicate safety switch and actuator types.

The door post of the swing doors is made of a stable steel profile with welded-on four-hole floor plate and long-lived hinges. A ball catch in the middle position prevents punching through of the door wing.

Build		Stop direction		Post profile		Wing profile		Safety fence system / filling										Fence height		Wing height (minus 17.5 mm ground clearance)		Outer size from the outer edge of the post to the outer edge of the wing						
								ZAUN II														WAND II		Open width				
								Grid fillings					Area elements															
								FLEX II	FLEX II	Wave grid 40	Wave grid 25	Welding grid 40	Sheet metal	Polycarbonate	Perforated sheet Round perforation	Perforated sheet Square perforation	Sheet metal							625	825	1025	1225	1425
PT	-L	-R	QR-60	-QR25	-RP106	-F	-Z-GF-F	-Z-GF-WG40	-Z-GF-WG25	-Z-GF-SG40	-Z-FE-BL	-Z-FE-P	-Z-FE-LBR	-Z-FE-LBQ	-W-BL	-1400	-1225	-625	-825	-1025	-1225	-1425						
PT	-L	-R	QR-60	-QR25	-RP106	-F	-Z-GF-F	-Z-GF-WG40	-Z-GF-WG25	-Z-GF-SG40	-Z-FE-BL	-Z-FE-P	-Z-FE-LBR	-Z-FE-LBQ	-W-BL	-1600	-1425	-625	-825	-1025	-1225	-1425						
PT	-L	-R	QR-60	-QR25	-RP106	-F	-Z-GF-F	-Z-GF-WG40	-Z-GF-WG25	-Z-GF-SG40	-Z-FE-BL	-Z-FE-P	-Z-FE-LBR	-Z-FE-LBQ	-W-BL	-1800	-1625	-625	-825	-1025	-1225	-1425						
PT	-L	-R	QR-60	-QR25	-RP106	-F	-Z-GF-F	-Z-GF-WG40	-Z-GF-WG25	-Z-GF-SG40	-Z-FE-BL	-Z-FE-P	-Z-FE-LBR	-Z-FE-LBQ	-W-BL	-2000	-1825	-625	-825	-1025	-1225	-1425						
PT	-L	-R	QR-60	-QR25	-RP106	-F	-Z-GF-F	-Z-GF-WG40	-Z-GF-WG25	-Z-GF-SG40	-Z-FE-BL	-Z-FE-P	-Z-FE-LBR	-Z-FE-LBQ	-W-BL	-2200	-2025	-625	-825	-1025	-1225	-1425						
PT	-L	-R	QR-60	-QR25	-RP106	-F	-Z-GF-F	-Z-GF-WG40	-Z-GF-WG25	-Z-GF-SG40	-Z-FE-BL	-Z-FE-P	-Z-FE-LBR	-Z-FE-LBQ	-W-BL	-2400	-2225	-625	-825	-1025	-1225	-1425						
PT	-L	-R	QR-60	-QR25	-RP106	-F	-Z-GF-F	-Z-GF-WG40	-Z-GF-WG25	-Z-GF-SG40	-Z-FE-BL	-Z-FE-P	-Z-FE-LBR	-Z-FE-LBQ	-W-BL	-2600	-2425	-625	-825	-1025	-1225	-1425						
HPT	-L	-R	QR-60	-QR25	-RP106	-F	-Z-GF-F	-Z-GF-WG40	-Z-GF-WG25	-Z-GF-SG40	-Z-FE-BL	-Z-FE-P	-Z-FE-LBR	-Z-FE-LBQ	-W-BL	-2200	-1825	-625	-825	-1025	-1225	-1425						
HPT	-L	-R	QR-60	-QR25	-RP106	-F	-Z-GF-F	-Z-GF-WG40	-Z-GF-WG25	-Z-GF-SG40	-Z-FE-BL	-Z-FE-P	-Z-FE-LBR	-Z-FE-LBQ	-W-BL	-2400	-1825-2025	-625	-825	-1025	-1225	-1425						
HPT	-L	-R	QR-60	-QR25	-RP106	-F	-Z-GF-F	-Z-GF-WG40	-Z-GF-WG25	-Z-GF-SG40	-Z-FE-BL	-Z-FE-P	-Z-FE-LBR	-Z-FE-LBQ	-W-BL	-2600	-1825-2025-2225	-625	-825	-1025	-1225	-1425						

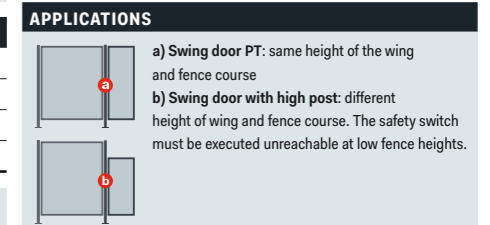
Example for item number key Build-stop direction-post profile-wing profile-safety fence system/filling-fence height-wing height-outer size PT-L-QR60-QR25-W-BL-1400-1225-1025 or HPT-L-QR60-QR25-W-BL-2400-1825-1025
 For dimensions that are not in the table, SO- must be put in front of the item number and the special size must be entered in the corresponding location in the item number (e.g. SO-PT-L-QR60-QR25-W-BL-1400-1225-1150 for special axle size 1150).



FLOOR ATTACHMENT PT/ HPT

Required number	4 pcs.
Attachment type	Fixed or shear connector
Size · Length	M10 · 120/130 mm
Weight example PT 2200x810 mm	27.5 kg

➔ Please order floor attachment media separately. See p. 168.
 ① Perforated sheet: Round holes Rv 5-8 / square holes Qg 8-12
 ② Doors by default with 175 mm ground clearance.
 ③ Floor plates centred in the middle by default. For specific floor plate positioning, see p. 187.



Door wings for handle, latch or deadlock slam lock

Product group/build
TF

Illustration shows TF with door set TG-V2.

DOOR ACCESSORIES

Door sets **TG**

Lock set **SG-F**

ATTACHMENT SYSTEMS FOR SAFETY SWITCHES

Retaining plate system **HP-F**

Switch preparation **SV**

- ➔ Door accessories (see p. 170) and attachment systems for safety switches (as of p. 127) must be ordered separately.
- ➔ For a combination overview of all matching door accessories and attachment systems, see p. 185.
- ⚠ Please indicate safety switch and actuator types.

Illustration shows TF with a latch system.

DOOR ACCESSORIES

Handle with bullet crossbow **TZ-GRK-F**

Latch **TZ-RI-F**

ATTACHMENT SYSTEMS FOR SAFETY SWITCHES

Handle system **GRK-F**

Latch system **RI-F**

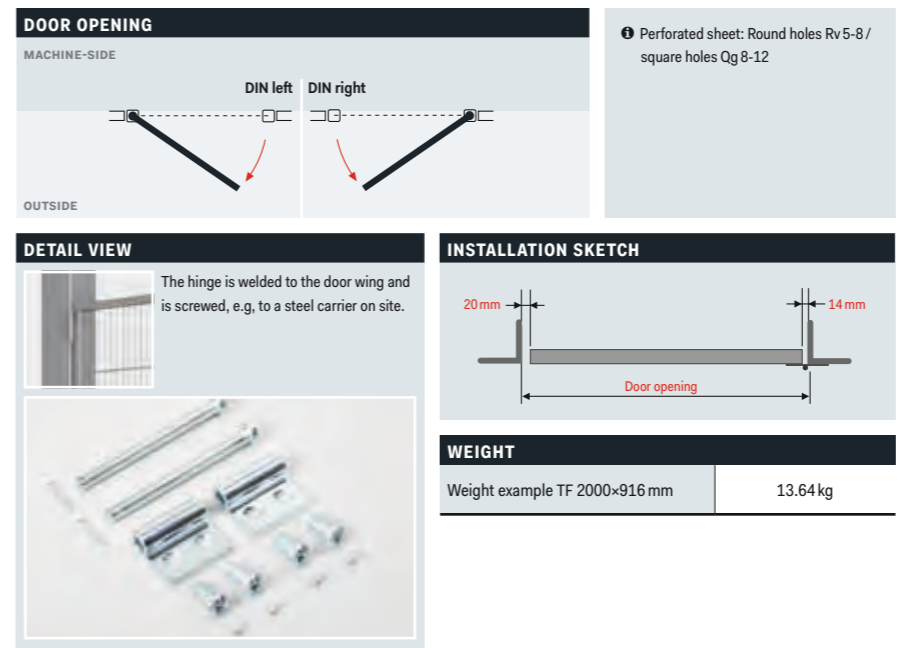
Handle preparation **GV-F**

Latch preparation **RV-F**

- ➔ Door accessories (see p. 170) and attachment systems for safety switches (as of p. 127) must be ordered separately.
- ➔ For a combination overview of all matching door accessories and attachment systems, see p. 185.
- ⚠ Please indicate safety switch and actuator types.

Door wing for handle, latch or deadlock slam lock																							
Fence height	Build	Stop direction		Wing profile	Filling											Wing height		Door opening					
		left	right		QR25	RP106	FLEX II	Wave grid 40	Wave grid 25	Welding grid 40	Sheet metal	Polycarbonate	Perforated sheet Round perforation	Perforated sheet Square holes	Process view - Polycarbonate	Process view - Sight protection glass reddish-brown	Process view - Sight protection glass green	(minus 175 mm ground clearance)	(minus 20 mm ground clearance)	750	950	1150	1350
1400	TF	-L	-R	-QR25	-RP106	-F	-WG40	-WG25	-SG40	-BL	-P	-LBR	-LBQ	-	-	-	-1225	-1380	-750	-950	-1150	-1350	
1600	TF	-L	-R	-QR25	-RP106	-F	-WG40	-WG25	-SG40	-BL	-P	-LBR	-LBQ	-	-	-	-1425	-1580	-750	-950	-1150	-1350	
1800	TF	-L	-R	-QR25	-RP106	-F	-WG40	-WG25	-SG40	-BL	-P	-LBR	-LBQ	-	-	-	-1625	-1780	-750	-950	-1150	-1350	
2000	TF	-L	-R	-QR25	-RP106	-F	-WG40	-WG25	-SG40	-BL	-P	-LBR	-LBQ	-PE-P	-PE-SSB	-PE-SSG	-1825	-1980	-750	-950	-1150	-1350	
2200	TF	-L	-R	-QR25	-RP106	-F	-WG40	-WG25	-SG40	-BL	-P	-LBR	-LBQ	-PE-P	-PE-SSB	-PE-SSG	-2025	-2180	-750	-950	-1150	-1350	
2400	TF	-L	-R	-QR25	-RP106	-F	-WG40	-WG25	-SG40	-BL	-P	-LBR	-LBQ	-PE-P	-PE-SSB	-PE-SSG	-2225	-2380	-750	-950	-1150	-1350	
2600	TF	-L	-R	-QR25	-RP106	-F	-WG40	-WG25	-SG40	-BL	-P	-LBR	-LBQ	-PE-P	-PE-SSB	-PE-SSG	-2425	-2580	-750	-950	-1150	-1350	

Example for item number key Build-stop direction-wing profile-filling-wing height-door opening **TF-L-QR25-BL-1825-1000**
 For dimensions that are not in the table, SO- must be put in front of the item number and the special size must be entered in the corresponding location in the item number (e.g. SO-TF-L-25-F-1425-870 for special size 870).



The door wings are used in opening areas for machine and system accesses. The frame elements of the door wing are welded together with a mitre and can be equipped with different fillings. The scope of delivery includes hinges such as splints and pins, including the means of attachment.



Sliding doors

One door, many uses

The sliding doors by Brühl are the right choice at a limited space offer. Thanks to the continuous sill rockers, the door wing can be moved freely. The guide rail has stoppers installed as limitation. These stoppers also serve to protect the safety switch.

Smooth-running guide profile of aluminium or steel

Maintenance-free polyamide guide elements

Large stable, robust four-hole bottom plate for stop posts

Overview: Advantages of the sliding doors

Comfortable operation

The standard design contains a precise aluminium guide profile – optionally also as a steel guide profile.

Safe movement of the wings

Robust stops by stoppers and inlet centring.

Fast installation

Brühl sliding doors are highly stable and ensure quick installation – without any time loss on the construction site.

Different ground clearances

All sliding doors are delivered by default with a ground clearance of 175 mm or 20 mm.

Flexible planning

The fence route can be installed in any manner. This positively influences the assembly time and flexibility on the construction site.

Compatible

The sliding doors are compatible with the Brühl attachment system for safety switches.

Customer-specific solutions

An individual execution is possible depending on demand – in different colours and with hot-dip galvanisation.

Maximum shock resilience

All elements are sand-blasted and powder-coated.

Technical data for standard sliding doors Special productions on request.

Product group/build	ST	STI	STO	DST	STB	DSTO
Dimensions						
max. axle size in mm	2910	2910	1430	2810	6030	2830
max. door-/fence height in mm	2600	2600	4835	2600	2600	4835
Rail running profile						
Aluminium guide profile with ball-bearing casters	•	•	•	•	•	•
Fillings						
FLEX II	•	•	•	•	•	•
Wave grid 40	•	•	○	•	•	○
Wave grid 25	•	•	○	•	•	○
Welding grid 40	•	•	○	•	•	○
Sheet metal	•	•	○	•	•	○
Polycarbonate	•	•	○	•	•	○
Perforated sheet round holes Rv 5-8	•	•	○	•	•	○
Perforated sheet square holes Qg 8-12	•	•	○	•	•	○
Process view – Sight protection glass reddish-brown	•	•	○	•	•	○
Process view – Sight protection glass green	•	•	○	•	•	○
Process view – Polycarbonate	•	•	○	•	•	○
Brühl door accessories						
Handle set	•	•	•	•	•	•
Attachment systems for safety switches						
Handle preparation BRÜHL-GV	•	×	•	•	•	•
Retaining plate system BRÜHL-HP-S®	•	•	•	•	•	•
Switching cam system BRÜHL-SN-S	•	•	•	•	•	•
Safety switch preparation BRÜHL-SV	•	•	•	•	•	•
Special latch	on request					
Surfaces						
Powder-coating/paint	•	•	•	•	•	•
Hot-dip galvanised surface	•	•	•	•	•	•
Ground clearance						
Standard	175 mm	175 mm	175 mm	175 mm	175 mm	175 mm
Reduced	20 mm	20 mm	20 mm	20 mm	20 mm	20 mm

• Combination is possible. × Combination is not possible. ○ Combination is optional.

Sliding door for handle or hook lock

Product group/build
ST

Illustration shows ST with door set TG-V2.



DOOR ACCESSORIES

Door sets **TG**

Lock set **SG-S**

ATTACHMENT SYSTEMS FOR SAFETY SWITCHES

Retaining plate system **HP-S**

Switching can system **SN-S**

Switch preparation **SV**

- Door accessories (see p. 170) and attachment systems for safety switches (as of p. 127) must be ordered separately.
- For a combination overview of all matching door accessories and attachment systems, see p. 185.
- Please indicate safety switch and actuator types.

Illustration shows ST with a grip system.



DOOR ACCESSORIES

Handle **TZ-GR-S**

ATTACHMENT SYSTEMS FOR SAFETY SWITCHES

Retaining plate system **HP-S**

Handle preparation **GV-S**

Switching can system **SN-S**

- Door accessories (see p. 170) and attachment systems for safety switches (as of p. 127) must be ordered separately.
- For a combination overview of all matching door accessories and attachment systems, see p. 185.
- Please indicate safety switch and actuator types.

The special aluminium profile, long-lived rolls of steel and a guide of polyamid guarantee for a very smooth and precise opening and closing of the door wing. The posts of the sliding door are made of a stable steel profile with welded-on square bottom plate. By default, the two door posts are prepared for a corner and passage situation.

Sliding door for handle or hook lock

Build	Opening direction		Post profile	Wing profile				Safety fence system / filling												Ground clearance	Fence height	Axle size from post centre to post centre													
	Opening to the left	Opening to the right		Axle size ≤ 1400 mm		Axle size > 1400 mm		ZAUN II						WAND II								175 mm	20 mm	Open width											
				QR35	RP106	RR50x34	RP1191	FLEX II	FLEX II	Wave grid 40	Wave grid 25	Welding grid 40	Sheet metal	Polycarbonate	Perforated sheet Round perforation	Perforated sheet Square holes	Sheet metal	Polycarbonate	Slight projection-pane reddish-brown					Slight projection-pane green	800	1000	1200	1400	1600	1800	2000	2200	2400	2600	2800
	ST	-L		-R	-QR50	-QR35	-RP106	-RR50x34	-RP1191	-F	-Z-GF-F	-Z-GF-WG40	-Z-GF-WG25	-Z-GF-SG40	-Z-FE-BL	-Z-FE-P	-Z-FE-LBR	-Z-FE-LBQ	-W-BL			-W-PE-P	-W-PE-SSB	-W-PE-SSG	-175	-20	-2000	-800	-1000	-1200	-1400	-1600	-1800	-2000	-2200
ST	-L	-R	-QR50	-QR35	-RP106	-RR50x34	-RP1191	-F	-Z-GF-F	-Z-GF-WG40	-Z-GF-WG25	-Z-GF-SG40	-Z-FE-BL	-Z-FE-P	-Z-FE-LBR	-Z-FE-LBQ	-W-BL	-W-PE-P	-W-PE-SSB	-W-PE-SSG	-175	-20	-2200	-800	-1000	-1200	-1400	-1600	-1800	-2000	-2200	-2400	-2600	-2800	-2900
ST	-L	-R	-QR50	-QR35	-RP106	-RR50x34	-RP1191	-F	-Z-GF-F	-Z-GF-WG40	-Z-GF-WG25	-Z-GF-SG40	-Z-FE-BL	-Z-FE-P	-Z-FE-LBR	-Z-FE-LBQ	-W-BL	-W-PE-P	-W-PE-SSB	-W-PE-SSG	-175	-20	-2400	-800	-1000	-1200	-1400	-1600	-1800	-2000	-2200	-2400	-2600	-2800	-2900
ST	-L	-R	-QR60	-QR35	-RP106	-RR50x34	-RP1191	-F	-Z-GF-F	-Z-GF-WG40	-Z-GF-WG25	-Z-GF-SG40	-Z-FE-BL	-Z-FE-P	-Z-FE-LBR	-Z-FE-LBQ	-W-BL	-W-PE-P	-W-PE-SSB	-W-PE-SSG	-175	-20	-2600	-800	-1000	-1200	-1400	-1600	-1800	-2000	-2200	-2400	-2600	-2800	-2900

Example for item number key Build-opening direction-post profile-wing profile-safety fence system/filling-ground clearance-fence height-axle size **ST-L-QR50-QR35-Z-GF-20-SG40-2400-1000**
 For dimensions that are not in the table, **SO-** must be put in front of the item number and the special size must be entered in the corresponding location in the item number (e.g. **SO-ST-L-QR50-QR35-Z-GF-20-SG40-2400-1750** for special axle size 1750).

FLOOR ATTACHMENT

Required number: 8/12 pieces

Attachment type: Fixed or shear connector

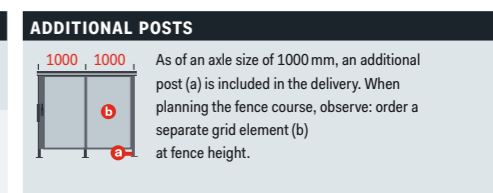
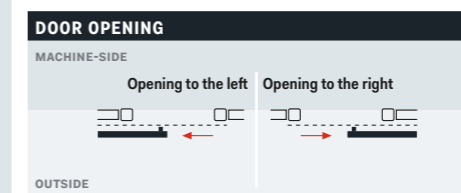
Size · Length: M10 · 120/130 mm

Weight example ST 2000x1000 mm: 42.42 kg

PRODUCT OPTION: HEIGHT COMPENSATION

Optional with post -J for height adjustment.

- 1 Axle size in post profile QR60 +10 mm
- 2 For axle size definition, see p. 184.
- 3 Width and height of lights can be reduced according to the system for safety switches, door accessories.
- 4 Please order floor attachment media separately. See p. 168.
- 5 As of an axle size of 1000 mm, 12 floor attachments are needed.
- 6 Perforated sheet: Round holes Rv 5-8 / square holes Qg 8-12
- 7 Doors by default with 175 mm ground clearance.
- 8 Lock parts, zinc-plated steel.
- 9 Floor plates at the front centre by default. For specific floor plate positioning, see p. 187.



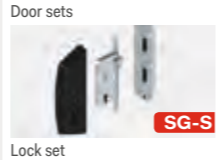
Sliding door for handle or hook lock, inner track

Product group/build
STI

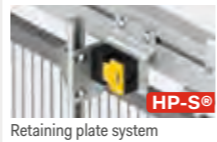
Illustration shows STI with handle set TG-V2.



DOOR ACCESSORIES



ATTACHMENT SYSTEMS FOR SAFETY SWITCHES



- Door accessories (see p. 170) and attachment systems for safety switches (as of p. 127) must be ordered separately.
- For a combination overview of all matching door accessories and attachment systems, see p. 185.
- Please indicate safety switch and actuator types.

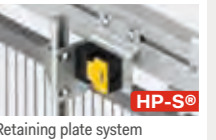
Illustration shows STI with a grip system.



DOOR ACCESSORIES



ATTACHMENT SYSTEMS FOR SAFETY SWITCHES



- Door accessories (see p. 170) and attachment systems for safety switches (as of p. 127) must be ordered separately.
- For a combination overview of all matching door accessories and attachment systems, see p. 185.
- Please indicate safety switch and actuator types.

The special aluminium profile, long-lived rolls of steel and a guide of polyamid guarantee for a very smooth and precise opening and closing of the door wing. The door wing is designed with an inner track and is used, e.g., when a control cabinet is attached to the outside of the safety device in the return or if a parking position of a pallet is located there.

Sliding door for handle or hook lock, inner track

Build	Opening direction		Wing profile				Safety fence system / filling												Ground clearance		Axle size from post centre to post centre														
	Opening to the left	Opening to the right	Axle size ≤ 1400 mm		Axle size > 1400 mm		ZAUN II						WAND II						175 mm	20 mm	Open width														
			QR35	RP106	RR50x34	RP1191	Grid fillings			Area elements			Process view																						
	Post profile	Post profile	Post profile	Post profile	FLEX II	FLEX II	Wave grid 40	Wave grid 25	Welding grid 40	Sheet metal	Polycarbonate	Perforated sheet Round perforation	Perforated sheet Square holes	Sheet metal	Polycarbonate	Sight protection-pane reddish-brown	Sight protection-pane green																		
STI	-L	-R	QR50	QR35	RP106	RR50x34	RP1191	-F	-Z-GF-F	-Z-GF-WG40	-Z-GF-WG25	-Z-GF-SG40	-Z-FE-BL	-Z-FE-P	-Z-FE-LBR	-Z-FE-LBQ	-W-BL	-W-PE-P	-W-PE-SSB	-W-PE-SSG	-175	-20	-2000	-800	-1000	-1200	-1400	-1600	-1800	-2000	-2200	-2400	-2600	-2800	-2900
STI	-L	-R	QR50	QR35	RP106	RR50x34	RP1191	-F	-Z-GF-F	-Z-GF-WG40	-Z-GF-WG25	-Z-GF-SG40	-Z-FE-BL	-Z-FE-P	-Z-FE-LBR	-Z-FE-LBQ	-W-BL	-W-PE-P	-W-PE-SSB	-W-PE-SSG	-175	-20	-2200	-800	-1000	-1200	-1400	-1600	-1800	-2000	-2200	-2400	-2600	-2800	-2900
STI	-L	-R	QR50	QR35	RP106	RR50x34	RP1191	-F	-Z-GF-F	-Z-GF-WG40	-Z-GF-WG25	-Z-GF-SG40	-Z-FE-BL	-Z-FE-P	-Z-FE-LBR	-Z-FE-LBQ	-W-BL	-W-PE-P	-W-PE-SSB	-W-PE-SSG	-175	-20	-2400	-800	-1000	-1200	-1400	-1600	-1800	-2000	-2200	-2400	-2600	-2800	-2900
STI	-L	-R	QR60	QR35	RP106	RR50x34	RP1191	-F	-Z-GF-F	-Z-GF-WG40	-Z-GF-WG25	-Z-GF-SG40	-Z-FE-BL	-Z-FE-P	-Z-FE-LBR	-Z-FE-LBQ	-W-BL	-W-PE-P	-W-PE-SSB	-W-PE-SSG	-175	-20	-2600	-800	-1000	-1200	-1400	-1600	-1800	-2000	-2200	-2400	-2600	-2800	-2900

Example for item number key Build-opening direction-post profile-wing profile-safety fence system/filling-ground clearance-fence height-axle size **STI-L-QR50-QR35-Z-GF-20-SG40-2400-1000**
For dimensions that are not in the table, **SO-** must be put in front of the item number and the special size must be entered in the corresponding location in the item number (e.g. **SO-STI-L-QR50-QR35-Z-GF-20-SG40-2400-1750** for special axle size 1750).

FLOOR ATTACHMENT

Required number	8/12 pieces
Attachment type	Fixed or shear connector
Size · Length	M10 · 120/130 mm
Weight example STI 2000x1000 mm	42.42 kg

PRODUCT OPTION: HEIGHT COMPENSATION

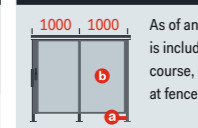


- Axle size in post profile QR60 +10 mm
- For axle size definition, see p. 184.
- Width and height of lights can be reduced according to the system for safety switches, door accessories.
- Please order floor attachment media separately. See p. 168.
- As of an axle size of 1000 mm, 12 floor attachments are needed.
- Perforated sheet: Round holes Rv 5-8 / square holes Qg 8-12
- In assembly STI, the attachment system for the safety switches is on the machine side.
- Doors by default with 175 mm ground clearance.
- Lock parts, zinc-plated steel.
- Floor plates at the rear centre by default. For specific bottom plate positioning, see p. 187.

DOOR OPENING



ADDITIONAL POSTS



SAFETY DOORS



Sliding door for handle or hook lock, with skylight

Product group/build
STO

Illustration shows STO with door set TG-V2.



DOOR ACCESSORIES



Door sets



Lock set

ATTACHMENT SYSTEMS FOR SAFETY SWITCHES



Retaining plate system



Switching can system



Switch preparation

- Door accessories (see p. 170) and attachment systems for safety switches (as of p. 127) must be ordered separately.
- For a combination overview of all matching door accessories and attachment systems, see p. 185.
- Please indicate safety switch and actuator types.

Illustration shows STO with a grip system.



DOOR ACCESSORIES



Handle



Handle with bullet crossbow

ATTACHMENT SYSTEMS FOR SAFETY SWITCHES



Retaining plate system



Handle preparation

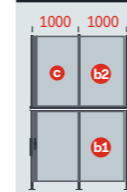
- Door accessories (see p. 170) and attachment systems for safety switches (as of p. 127) must be ordered separately.
- For a combination overview of all matching door accessories and attachment systems, see p. 185.
- Please indicate safety switch and actuator types.

Sliding door for handle or hook lock, with skylight

Build	Opening direction		Post profile	Wing profile	Safety fence system	Ground clearance		Fence height	Axle size from post centre to post centre			
	left	right				175 mm	20 mm		Open width			
	-L	-R							800	1000	1200	1400
STO	-L	-R	-QR50	-QR35	-F	-175	-20	-2400	-800	-1000	-1200	-1400
STO	-L	-R	-QR60	-QR35	-F	-175	-20	-2600	-800	-1000	-1200	-1400
STO	-L	-R	-QR60	-QR35	-F	-175	-20	-2835	-800	-1000	-1200	-1400
STO	-L	-R	-QR60	-QR35	-F	-175	-20	-3035	-800	-1000	-1200	-1400
STO	-L	-R	-QR80	-QR35	-F	-175	-20	-3235	-800	-1000	-1200	-1400
STO	-L	-R	-QR80	-QR35	-F	-175	-20	-3435	-800	-1000	-1200	-1400
STO	-L	-R	-QR80	-QR35	-F	-175	-20	-3635	-800	-1000	-1200	-1400
STO	-L	-R	-QR80	-QR35	-F	-175	-20	-3835	-800	-1000	-1200	-1400
STO	-L	-R	-QR80	-QR35	-F	-175	-20	-4035	-800	-1000	-1200	-1400
STO	-L	-R	-QR80	-QR35	-F	-175	-20	-4235	-800	-1000	-1200	-1400
STO	-L	-R	-QR80	-QR35	-F	-175	-20	-4435	-800	-1000	-1200	-1400
STO	-L	-R	-QR80	-QR35	-F	-175	-20	-4635	-800	-1000	-1200	-1400
STO	-L	-R	-QR80	-QR35	-F	-175	-20	-4835	-800	-1000	-1200	-1400

Example for item number key
Build-opening direction-post profile-wing profile-safety fence system/filling-ground clearance-fence height-axle size
STO-L-QR50-QR35-F-20-2400-800
For dimensions that are not in the table, **SO-** must be put in front of the item number and the special size must be entered in the corresponding location in the item number (e.g. **SO-STO-L-QR50-QR35-F-20-2400-1750** for special axle size 1750).

ADDITIONAL POSTS



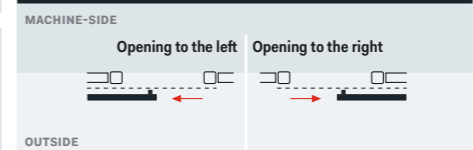
As of an axle size of 1000 mm, an additional post (a) is included in the delivery. Please consider the following when planning the fence course: Order a separate grid element (b1) and skylight grid mat (b2). Grid element (c) above the door enclosed.

- Axle size at post profile QR60 +10 mm, at post profile QR80 +30 mm
- For axle size definition, see p. 184.
- Width and height of lights can be reduced according to the system for safety switches or door accessories.
- Please order floor attachment media separately. See p. 168.
- As of an axle size of 1000 mm, 12 floor attachments are needed.
- As of a height of 3235 mm, use M12.
- Doors by default with 175 mm ground clearance.
- Floor plates at the front centre by default. For specific floor plate positioning, see p. 187.

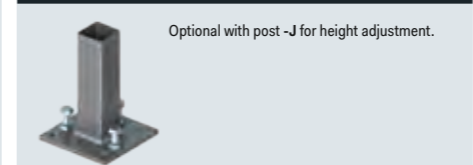
FLOOR ATTACHMENT

Required number	8/12 pieces
Attachment type	Fixed or shear connector
Size · Length	M10 · 120/130 mm M12 · 145/160 mm
Weight example STO 3035x1000 mm	85.8 kg

DOOR OPENING



PRODUCT OPTION: HEIGHT COMPENSATION



The special aluminium profile, long-lived rolls of steel and a guide of polyamid guarantee for a very smooth and precise opening and closing of the door wing. The door post of the sliding door with skylight are made of a stable steel profile with welded-on square bottom plate. Both posts are connected to each other with a transom profile and a skylight grid mat. By default, the two door posts are prepared for a corner and passage situation.



Double sliding door for handle or hook lock

Product group/build
DST

Illustration shows DST with door set TG-V2.



DOOR ACCESSORIES



Door sets



Lock set

ATTACHMENT SYSTEMS FOR SAFETY SWITCHES



Retaining plate system (2x)



Switching can system (2x)

- Door accessories (see p. 170) and attachment systems for safety switches (as of p. 127) must be ordered separately.
- For a combination overview of all matching door accessories and attachment systems, see p. 185.
- Please indicate safety switch and actuator types.

Illustration shows DST with a grip system.



DOOR ACCESSORIES



Handle (2x)



Handle with bullet crossbow

ATTACHMENT SYSTEMS FOR SAFETY SWITCHES



Handle preparation



Retaining plate system (2x)

- Door accessories (see p. 170) and attachment systems for safety switches (as of p. 127) must be ordered separately.
- For a combination overview of all matching door accessories and attachment systems, see p. 185.
- Please indicate safety switch and actuator types.

The special aluminium profile, long-lived rollers of steel and a guide of polyamide ensure a very smooth and precise opening and closing of the two door wings that can be opened to the left and right outside of the open width. The door posts of the double sliding door are made of a stable steel profile with welded-on square bottom plate. By default, the two door posts are prepared for a corner and passage situation.

Double sliding door for handle or hook lock

Build	Opening direction		Safety fence system / filling																	Ground clearance		Axle size ① from post centre to post centre ②							
			Wing profile		ZAUN II							WAND II							Fence height			1445	1645	1845	2045	2245	2445	2645	
	Active leaf opening to the left	Active leaf opening to the right	Post profile	FLEX II	Grid fillings				Area elements			Process view				Open width ③													
					QR35	RP106	Wave grid 40	Wave grid 25	Welding grid 40	Sheet metal	Polycarbonate	Perforated sheet Round perforation	Perforated sheet Square holes	Sheet metal	Polycarbonate	Sight protection-pane reddish-brown	Sight protection-pane green	175 mm		20 mm	1600								1800
DST	-L	-R	-QR50	-QR35	-RP106	-F	-Z-GF-F	-Z-GF-WG40	-Z-GF-WG25	-Z-GF-SG40	-Z-FE-BL	-Z-FE-P	-Z-FE-LBR	-Z-FE-LBQ	-W-BL	-W-PE-P	-W-PE-SSB	-W-PE-SSG	-175	-20	-2000	-1600	-1800	-2000	-2200	-2400	-2600	-2800	
DST	-L	-R	-QR50	-QR35	-RP106	-F	-Z-GF-F	-Z-GF-WG40	-Z-GF-WG25	-Z-GF-SG40	-Z-FE-BL	-Z-FE-P	-Z-FE-LBR	-Z-FE-LBQ	-W-BL	-W-PE-P	-W-PE-SSB	-W-PE-SSG	-175	-20	-2200	-1600	-1800	-2000	-2200	-2400	-2600	-2800	
DST	-L	-R	-QR50	-QR35	-RP106	-F	-Z-GF-F	-Z-GF-WG40	-Z-GF-WG25	-Z-GF-SG40	-Z-FE-BL	-Z-FE-P	-Z-FE-LBR	-Z-FE-LBQ	-W-BL	-W-PE-P	-W-PE-SSB	-W-PE-SSG	-175	-20	-2400	-1600	-1800	-2000	-2200	-2400	-2600	-2800	
DST	-L	-R	-QR60	-QR35	-RP106	-F	-Z-GF-F	-Z-GF-WG40	-Z-GF-WG25	-Z-GF-SG40	-Z-FE-BL	-Z-FE-P	-Z-FE-LBR	-Z-FE-LBQ	-W-BL	-W-PE-P	-W-PE-SSB	-W-PE-SSG	-175	-20	-2600	-1600	-1800	-2000	-2200	-2400	-2600	-2800	

Example for item number key Build-opening direction-post profile-wing profile-safety fence system/filling-ground clearance-fence height-axle size **DST-L-QR50-QR35-Z-GF-SG40-175-2400-1600**

For dimensions that are not in the table, SO- must be put in front of the item number and the special size must be entered in the corresponding location in the item number (e.g. **SO-DST-L-QR50-QR35-Z-GF-SG40-175-2400-1750** for special axle size 1750).

FLOOR ATTACHMENT ④

Required number	8/16 pieces ⑤
Attachment type	Fixed or shear connector
Size · Length	M10 · 120/130 mm
Weight example DST 2000x2000 mm	81.94 kg

PRODUCT OPTION: HEIGHT COMPENSATION

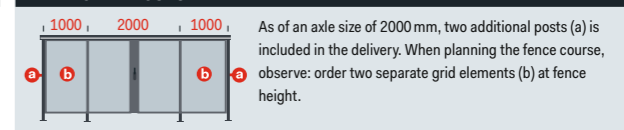


- ① Axle size at post profile QR60 +10 mm, at post profile QR80 +30 mm
- ② For axle size definition, see p. 184.
- ③ Width and height of lights can be reduced according to the system for safety switches or door accessories.
- ④ Please order floor attachment media separately. See p. 168.
- ⑤ As of an axle size of 2000 mm, 16 floor attachments are needed.
- ⑥ Perforated sheet: Round holes Rv5-8 / square holes Qg 8-12
- ⑦ Doors by default with 175 mm ground clearance.
- ⑧ Floor plates at the front centre by default. For specific floor plate positioning, see p. 187.

DOOR OPENING



ADDITIONAL POSTS



Sliding door for handle or hook lock, opening on both sides

Product group/build
STB

Illustration shows STB with door set TG-V2.

Illustration shows STB with a grip system.



DOOR ACCESSORIES



Door sets (2x) **TG**



Lock set (2x) **SG-S2**

ATTACHMENT SYSTEMS FOR SAFETY SWITCHES



Retaining plate system (2x) **HP-S**



Switch preparation (2x) **SV**

- Door accessories (see p. 170) and attachment systems for safety switches (as of p. 127) must be ordered separately.
- For a combination overview of all matching door accessories and attachment systems, see p. 185.
- Please indicate safety switch and actuator types.



DOOR ACCESSORIES



Handle (2x) **TZ-GR-S**



Handle with bullet crossbow (2x) **TZ-GRK-S**

ATTACHMENT SYSTEMS FOR SAFETY SWITCHES



Handle preparation (2x) **GV-S**



Retaining plate system (2x) **HP-S**

- Door accessories (see p. 170) and attachment systems for safety switches (as of p. 127) must be ordered separately.
- For a combination overview of all matching door accessories and attachment systems, see p. 185.
- Please indicate safety switch and actuator types.

The aluminium profile, long-lived rolls of steel and a guide of polyamid guarantee for a very smooth and precise movement of the two door wings. The door post of the sliding door opening to both sides are made of a stable steel profile with welded-on square bottom plate. By default, the two door posts are prepared for a corner and passage situation. The outer wing is opens to the right, the inner wing to the left within the portal.

Sliding door for handle or hook lock, opening on both sides

Build	Opening direction	Post profile	Wing profile		Safety fence system / filling														Ground clearance		Axle size from post centre to post centre											
			≤ 4000 mm axle size	> 4000 mm axle size	ZAUN II							WAND II							175 mm	20 mm	Open width											
					Grid fillings				Area elements			Process view																				
			QR35	RP106	RR50x34	RP1191	FLEX II	FLEX II	Wave grid 40	Wave grid 25	Welding grid 40	Sheet metal	Polycarbonate	Perforated sheet Round perforation	Perforated sheet Square perforation	Sheet metal	Polycarbonate	Sight protection-pane reddish-brown	Sight protection-pane green	585	685	...	1685	1785	1885	1985	...	2685	2785			
STB	-R	-QR80	-QR35	-RP106	-RR50x34	-RP1191	-F	-Z-GF-F	-Z-GF-WG40	-Z-GF-WG25	-Z-GF-SG40	-Z-FE-BL	-Z-FE-P	-Z-FE-LBR	-Z-FE-LBQ	-W-BL	-W-PE-P	-W-PE-SSB	-W-PE-SSG	-175	-20	-2000	-1600	-1800	...	-3800	-4000	-4200	-4400	...	-5800	-6000
STB	-R	-QR80	-QR35	-RP106	-RR50x34	-RP1191	-F	-Z-GF-F	-Z-GF-WG40	-Z-GF-WG25	-Z-GF-SG40	-Z-FE-BL	-Z-FE-P	-Z-FE-LBR	-Z-FE-LBQ	-W-BL	-W-PE-P	-W-PE-SSB	-W-PE-SSG	-175	-20	-2200	-1600	-1800	...	-3800	-4000	-4200	-4400	...	-5800	-6000
STB	-R	-QR80	-QR35	-RP106	-RR50x34	-RP1191	-F	-Z-GF-F	-Z-GF-WG40	-Z-GF-WG25	-Z-GF-SG40	-Z-FE-BL	-Z-FE-P	-Z-FE-LBR	-Z-FE-LBQ	-W-BL	-W-PE-P	-W-PE-SSB	-W-PE-SSG	-175	-20	-2400	-1600	-1800	...	-3800	-4000	-4200	-4400	...	-5800	-6000
STB	-R	-QR80	-QR35	-RP106	-RR50x34	-RP1191	-F	-Z-GF-F	-Z-GF-WG40	-Z-GF-WG25	-Z-GF-SG40	-Z-FE-BL	-Z-FE-P	-Z-FE-LBR	-Z-FE-LBQ	-W-BL	-W-PE-P	-W-PE-SSB	-W-PE-SSG	-175	-20	-2600	-1600	-1800	...	-3800	-4000	-4200	-4400	...	-5800	-6000

Example for item number key Build-opening direction-post profile-wing profile-safety fence system/filling-ground clearance-fence height-axle size **STB-R-QR80-RP106-Z-FE-P-20-2600-2630**

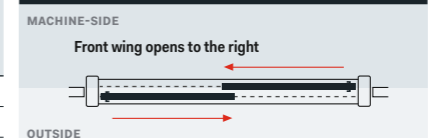
For dimensions that are not in the table, **SO-** must be put in front of the item number and the special size must be entered in the corresponding location in the item number

(e.g. **SO-STB-R-QR80-RP106-Z-FE-P-20-2600-1750** for special axle size 1750).

FLOOR ATTACHMENT

Required number	10 pcs.
Attachment type	Fixed or shear connector
Size · Length	M12 · 145/160 mm
Weight example STB 2000x2030 mm	69.25 kg

DOOR OPENING



PRODUCT OPTION: HEIGHT COMPENSATION



Optional with post -J for height adjustment.

- Axle size at post profile QR80 +30 mm
- Open width and height may reduce depending on the Width and height of lights can be reduced according to the system for safety switches or door accessories.
- Please order floor attachment media separately. See p. 168.
- Perforated sheet: Round holes Rv 5-8 / square holes Qg 8-12
- Doors by default with 175 mm ground clearance.
- Design of lock set: Outer wing is provided for a Euro profile cylinder dia 17mm with a length of 30/10 mm. The inner wing is provided for a Euro profile cylinder dia 17mm with a length of 30/65 mm
- Floor plates centred in the middle by default. For specific floor plate positioning, see p. 187.
- Compare telescopic sliding door STBT Page 106.

SAFETY DOORS



Double sliding door for handle or hook lock, with skylight

Product group/build
DSTO

Illustration shows DSTO with door set TG-V2.



DOOR ACCESSORIES



Door sets



Lock set

ATTACHMENT SYSTEMS FOR SAFETY SWITCHES



Retaining plate system (2x)



Switching can system (2x)

- Door accessories (see p. 170) and attachment systems for safety switches (as of p. 127) must be ordered separately.
- For a combination overview of all matching door accessories and attachment systems, see p. 185.
- Please indicate safety switch and actuator types.

Illustration shows DSTO with a grip system.



DOOR ACCESSORIES



Handle (2x)



Handle with bullet crossbow

ATTACHMENT SYSTEMS FOR SAFETY SWITCHES



Retaining plate system (2x)



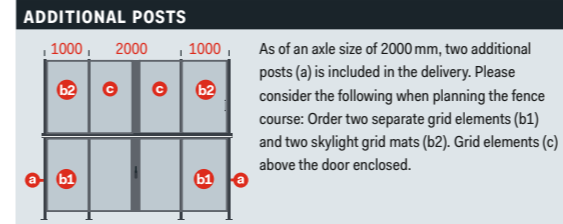
Handle preparation

- Door accessories (see p. 170) and attachment systems for safety switches (as of p. 127) must be ordered separately.
- For a combination overview of all matching door accessories and attachment systems, see p. 185.
- Please indicate safety switch and actuator types.

Double sliding door for handle or hook lock with top light

Build	Opening direction		Post profile	Wing profile	Safety fence system	Ground clearance		Fence height	Axle size ① from post centre to post centre ②							
	Active leaf opening to the left	Active leaf opening to the right				175 mm	20 mm		Open width ③							
									1600	1800	2000	2200	2400	2600	2800	
DSTO	-L	-R	-QR50	-QR35	-F	-175	-20	-2400	-1600	-1800	-2000	-2200	-2400	-2600	-2800	
DSTO	-L	-R	-QR60	-QR35	-F	-175	-20	-2600	-1600	-1800	-2000	-2200	-2400	-2600	-2800	
DSTO	-L	-R	-QR60	-QR35	-F	-175	-20	-2835	-1600	-1800	-2000	-2200	-2400	-2600	-2800	
DSTO	-L	-R	-QR80	-QR35	-F	-175	-20	-3035	-1600	-1800	-2000	-2200	-2400	-2600	-2800	
DSTO	-L	-R	-QR80	-QR35	-F	-175	-20	-3235	-1600	-1800	-2000	-2200	-2400	-2600	-2800	
DSTO	-L	-R	-QR80	-QR35	-F	-175	-20	-3435	-1600	-1800	-2000	-2200	-2400	-2600	-2800	
DSTO	-L	-R	-QR80	-QR35	-F	-175	-20	-3635	-1600	-1800	-2000	-2200	-2400	-2600	-2800	
DSTO	-L	-R	-QR80	-QR35	-F	-175	-20	-3835	-1600	-1800	-2000	-2200	-2400	-2600	-2800	
DSTO	-L	-R	-QR80	-QR35	-F	-175	-20	-4035	-1600	-1800	-2000	-2200	-2400	-2600	-2800	
DSTO	-L	-R	-QR80	-QR35	-F	-175	-20	-4235	-1600	-1800	-2000	-2200	-2400	-2600	-2800	
DSTO	-L	-R	-QR80	-QR35	-F	-175	-20	-4435	-1600	-1800	-2000	-2200	-2400	-2600	-2800	
DSTO	-L	-R	-QR80	-QR35	-F	-175	-20	-4635	-1600	-1800	-2000	-2200	-2400	-2600	-2800	
DSTO	-L	-R	-QR80	-QR35	-F	-175	-20	-4835	-1600	-1800	-2000	-2200	-2400	-2600	-2800	

Example for item number key
Build-opening direction-post profile-wing profile-safety fence system-ground clearance-fence height-axle size
DSTO-L-QR80-QR35-F-20-4635-2830
For dimensions that are not in the table, SO- must be put in front of the item number and the special size must be entered in the corresponding location in the item number (e.g. SO-DSTO-L-QR80-QR35-F-20-4635-1750 for special axle size 1750).



- Axle size at post profile QR60 +10 mm, at post profile QR80 +30 mm
- For axle size definition, see p. 184.
- Width and height of lights can be reduced according to the system for safety switches or door accessories.
- Please order floor attachment media separately. See p. 168.
- As of an axle size of 2000 mm, 16 floor attachments are needed.
- As of a height of 3235 mm, use M12.
- Doors by default with 175 mm ground clearance.
- Floor plates at the front centre by default. For specific floor plate positioning, see p. 187.

The special aluminium profile, long-lived rollers of steel and a guide of po each other with a transom profile and a skylight grid mat. The door post of the double sliding door with skylight are made of a stable steel profile with welded-on square bottom plate. By default, the two door posts are prepared for a corner and passage situation.



FLOOR ATTACHMENT ④

Required number	8/16 pieces ⑤
Attachment type	Fixed or shear connector
Size · Length	M10 · 120/130 mm M12 · 145/160 mm ⑥
Weight example DSTO 3035x2010 mm	143.7 kg



Folding wing and folding sliding doors

The space-saving version

Folding doors are a particularly space-saving version with strongly limited opening and movement paths, or if no guide elements can be placed in the opening area (folding wing doors).

Folding wing doors without interfering guide elements in the opening area

Use with strongly limited opening/movement paths in the outer area of the machine

Stable welded-on hinges and wing stops

Overview: Advantages of folding wing and folding sliding doors

Fast installation

Brühl doors are highly stable and ensure quick installation – without any time loss on the construction site.

Safe movement of the wings

Robust stops by stoppers and inlet centring.

Compatible

The folding wing and folding doors are compatible with the Brühl attachment system for safety switches.

For large openings

Smallest space demand in the open condition – even with large openings.

Different ground clearances

The doors are delivered by default with a ground clearance of 175 mm or 20 mm.

Customer-specific solutions

An individual execution is possible depending on demand – in different colours and with hot-dip galvanisation.

Comfortable operation

The sliding doors are equipped with a smooth-running steel guide profile.

Flexible planning

The door posts are provided for transit and also for corner situations. These have a positive influence on the assembly time and the flexibility at site.

Maximum shock resilience

All elements are sand-blasted and powder-coated.

SAFETY DOORS

Technical data for folding wing doors and folding sliding doors <small>Special productions on request.</small>				
Product group/build	FAFTR	DFAFTR	FASTG	DFASTG
Dimensions				
max. axle size in mm	4000	8000	5000	5000
max. door-/fence height in mm	2600	2600	2600	2600
Frame filling				
FLEX II	•	•	•	•
Wave grid 40	•	•	•	•
Sheet metal 1.5 mm	•	•	•	•
Polycarbonate 5 mm	•	•	•	•
Wave grid 25	•	•	•	•
Welding grid 40	•	•	•	•
Perforated sheet round holes Rv 5-8	•	•	•	•
Perforated sheet square holes Qg 8-12	•	•	•	•
Process view – Sight protection glass reddish-brown	•	•	•	•
Process view – Sight protection glass green	•	•	•	•
Process view – Polycarbonate	•	•	•	•
Attachment systems for safety switches				
Rollover latch system BRÜHL-UER®	•	•	×	×
Surfaces				
Powder-coating/paint	•	•	•	•
Hot-dip galvanised surface	•	•	•	•
Ground clearance				
Standard	175 mm	175 mm	175 mm	175 mm
Reduced	20 mm	20 mm	20 mm	20 mm

• Combination is possible. × Combination is not possible. ○ Combination is optional.


Folding wing door for latch

Product group/build
FAFTR


Illustration shows FAFTR with overroll latch.



DOOR ACCESSORIES




TZ-GR-F
Handle

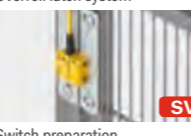


STR-LR
Caster

ATTACHMENT SYSTEMS FOR SAFETY SWITCHES



UER-F®
Overroll latch system



SV
Switch preparation

Door accessories (see p. 170) and attachment systems for safety switches (as of p. 127) must be ordered separately.


For a combination overview of all matching door accessories and attachment systems, see p. 185.

Please indicate safety switch and actuator types.


Double folding wing door for latch

Product group/build
DFAFTR

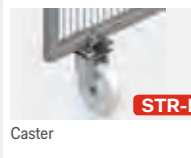
Illustration shows DFAFTR with overroll latch.



DOOR ACCESSORIES




TZ-GR-F
Handle

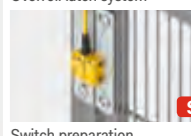


STR-LR
Caster

ATTACHMENT SYSTEMS FOR SAFETY SWITCHES



UER-F®
Overroll latch system



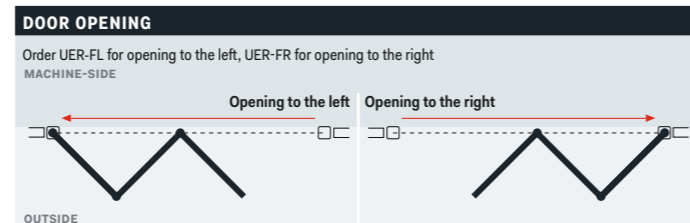
SV
Switch preparation

Door accessories (see p. 170) and attachment systems for safety switches (as of p. 127) must be ordered separately.

For a combination overview of all matching door accessories and attachment systems, see p. 185.

Please indicate safety switch and actuator types.

The folding wing doors have no interrupting guiding elements in the thin opening and only have a small space requirement in open condition. They are executed as latch doors and equipped with a floor latch, which prevents the pushing in of the door wings. The door post of the folding wing door for latches are made of a stable steel profile with welded-on square bottom plate. By default, the two door posts are prepared for a corner and passage situation.

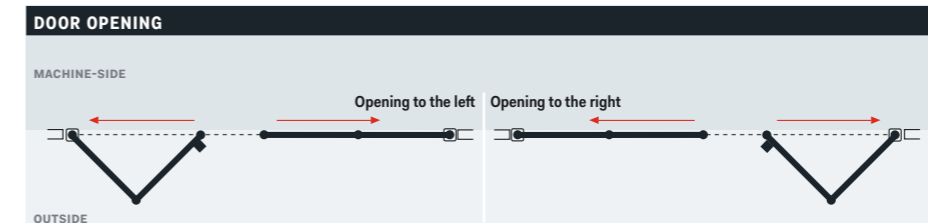


FLOOR ATTACHMENT	
Required number	8 pcs.
Attachment type	Fixed or shear connector
Size · Length	M12 · 145/160 mm
Weight example FAFTR 2200x3030 mm	84.6 kg

- ➊ Please order floor attachment media separately. See p. 168.
- ➋ Available with 2 or 3 wings.
- ➌ Available in axle sizes from 1.6 to 4 m.
- ➍ Doors by default with 175 mm ground clearance.
- ➎ Floor latch is enclosed in the delivery.
- ➏ The wing number is determined by the space needed in the outer area.
- ➐ For frame filling, see table p. 186.
- ➑ Floor plates centred in the middle by default. For specific floor plate positioning, see p. 187.
- ➒ Caster is not included in the delivery. Please order it separately, see p. 171



The folding wing doors have no interrupting guiding elements in the thin opening and only have a small space requirement in open condition. They are executed as latch doors and equipped with a floor latch, which prevents the pushing in of the door wings. The door posts of this door are made of a stable steel profile with welded-on square bottom plate. By default, the two door posts are prepared for a corner and passage situation.



- ➊ Please order floor attachment media separately. See p. 168.
- ➋ Available with 3 to 6 wings.
- ➌ Available in axle sizes from 3 to 8 m.
- ➍ Doors by default with 175 mm ground clearance.
- ➎ Floor latch is enclosed in the delivery.
- ➏ The wing number is determined by the space needed in the outer area.
- ➐ For frame filling, see table p. 186.
- ➑ Floor plates centred in the middle by default. For specific floor plate positioning, see p. 187.
- ➒ Caster is not included in the delivery. Please order it separately, see p. 171

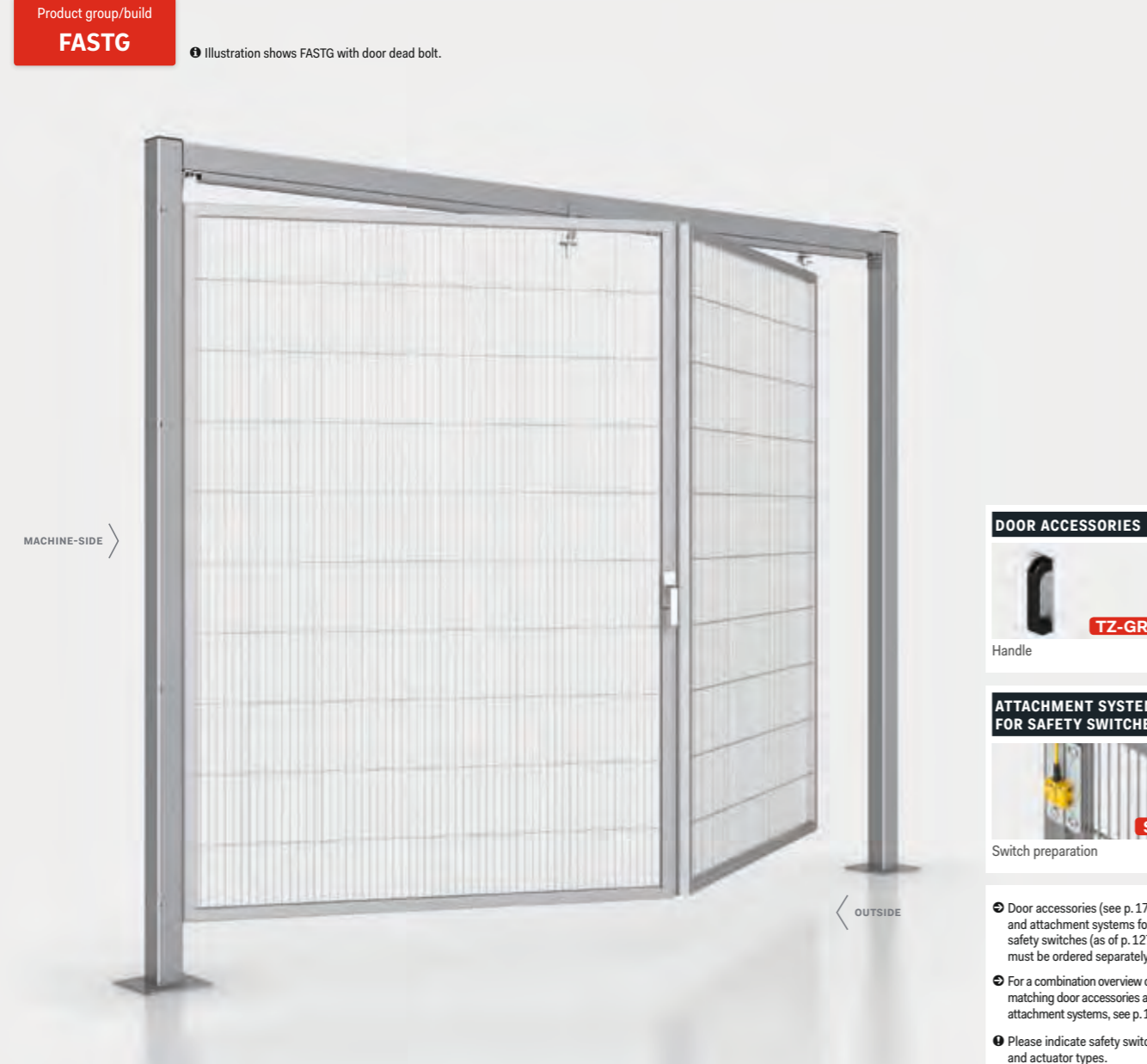
FLOOR ATTACHMENT	
Required number	8 pcs.
Attachment type	Fixed or shear connector
Size · Length	M12 · 145/160 mm
Weight example DFAFTR 2200x3030 mm	95.4 kg




Folding sliding door

Product group/build
FASTG

❶ Illustration shows FASTG with door dead bolt.




DOOR ACCESSORIES



TZ-GR-S

Handle

ATTACHMENT SYSTEMS FOR SAFETY SWITCHES

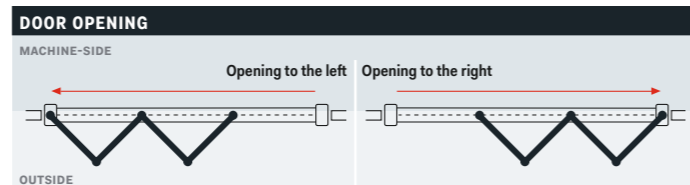


SV

Switch preparation

- ❶ Door accessories (see p. 170) and attachment systems for safety switches (as of p. 127) must be ordered separately.
- ❷ For a combination overview of all matching door accessories and attachment systems, see p. 185.
- ❸ Please indicate safety switch and actuator types.

The folding sliding door have only a small space requirement in the open condition. The door posts of this door are made of a stable steel profile with welded-on square bottom plate. By default, the two door posts are prepared for a corner and passage situation. Long-lived guide rails and casters give the folding sliding doors very accurate and precise wing movement paths.



FLOOR ATTACHMENT ❶	
Required number	8 pcs.
Attachment type	Fixed or shear connector
Size · Length	M12 · 145/160 mm
Weight example FASTG 2200×3030 mm	116 kg

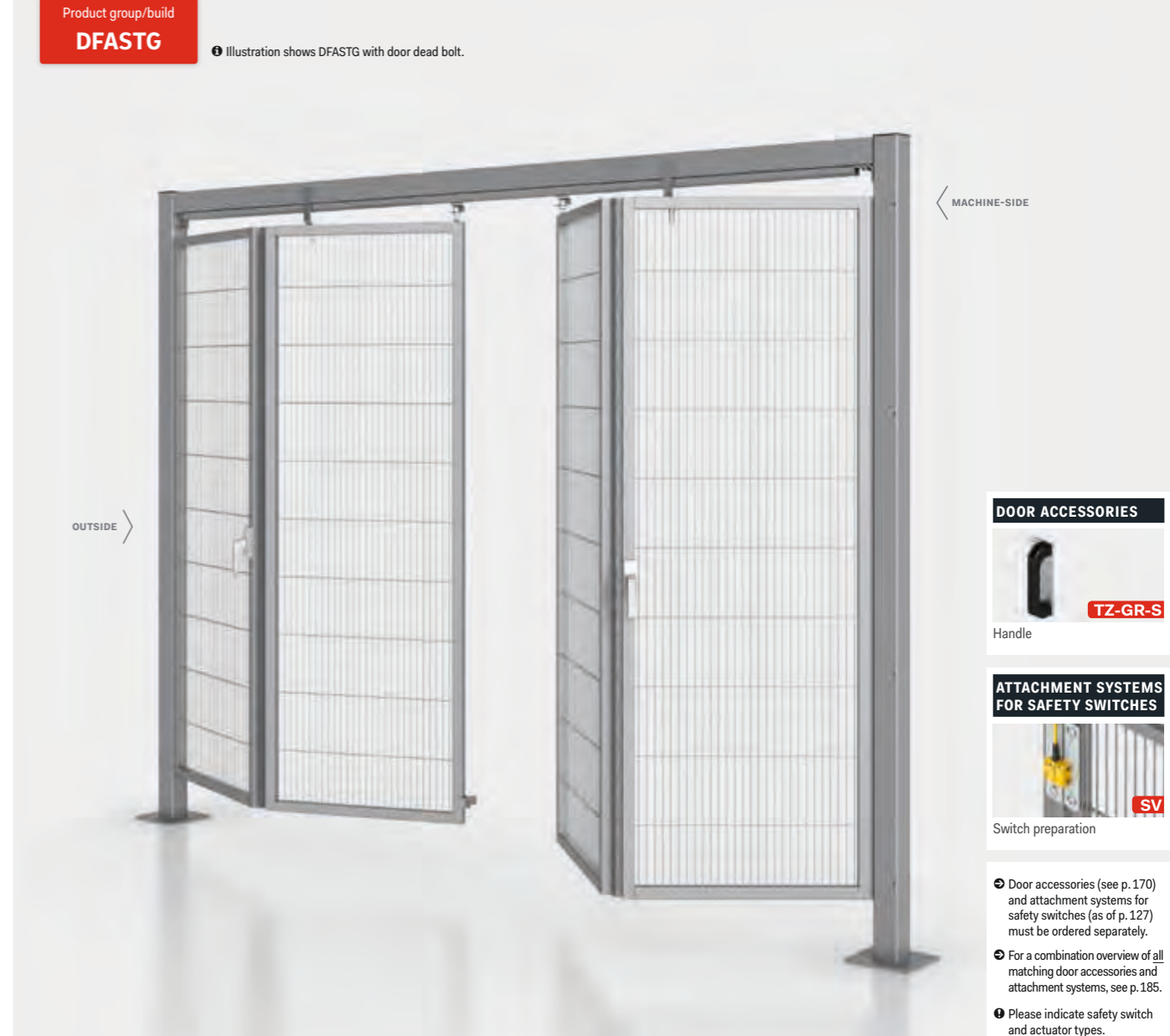
- ❶ Please order floor attachment media separately. See p. 168.
- ❷ Available with 2 or 4 wings.
- ❸ Available in axle sizes from 2.8 to 5 m.
- ❹ Doors by default with 175 mm ground clearance.
- ❺ The wing number is determined by the space needed in the outer area.
- ❻ Door dead bolt included in the door delivery.
- ❼ For frame filling, see table p. 186.
- ❽ Floor plates centred in the middle by default. For specific floor plate positioning, see p. 187.




Double folding sliding door

Product group/build
DFASTG

❶ Illustration shows DFASTG with door dead bolt.




DOOR ACCESSORIES



TZ-GR-S

Handle

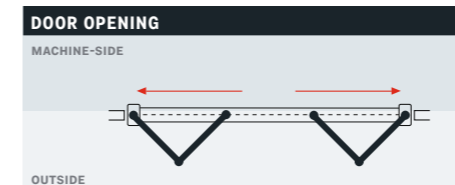
ATTACHMENT SYSTEMS FOR SAFETY SWITCHES



SV

Switch preparation

- ❶ Door accessories (see p. 170) and attachment systems for safety switches (as of p. 127) must be ordered separately.
- ❷ For a combination overview of all matching door accessories and attachment systems, see p. 185.
- ❸ Please indicate safety switch and actuator types.



FLOOR ATTACHMENT ❶	
Required number	8 pcs.
Attachment type	Fixed or shear connector
Size · Length	M12 · 145/160 mm
Weight example DFASTG 2200×3030 mm	135.7 kg

- ❶ Please order floor attachment media separately. See p. 168.
- ❷ Available with 4 or 8 wings.
- ❸ Available in axle sizes from 2.8 to 5 m.
- ❹ Doors by default with 175 mm ground clearance.
- ❺ The wing number is determined by the space needed in the outer area.
- ❻ Door dead bolt included in the door delivery.
- ❼ For frame filling, see table p. 186.
- ❽ Floor plates centred in the middle by default. For specific floor plate positioning, see p. 187.

The double folding sliding door have only a small space requirement in the open condition. The door posts of this door are made of a stable steel profile with welded-on square bottom plate. By default, the two door posts are prepared for a corner and passage situation. Long-lived guide rails and casters give the folding sliding doors very accurate and precise wing movement paths.



Telescopic sliding doors

Maximum opening width

Narrow space and the wish for maximum access width determine the application of the telescopic sliding doors. Due to the variable applications, the sliding doors are ideal for, e.g. material storage.

Robust, long-lived guide rails and carriages

Multiple-wing versions are extremely space-saving in their opening/movement paths (STT/DSTT)

Door wing openings to outside of the open width (STT/DSTT)

Large stable, robust four-hole bottomplate for stop posts

Overview: Advantages of telescopic sliding doors

Different ground clearances

All sliding doors are delivered by default with a ground clearance of 175 mm or 20 mm.

Small space demand

This build contains a telescoping wing guide to minimise the overall space demand, at maximum opening width.

Simple height adjustment

A height adjustment of the guide elements is quickly possible via adjustment screws.

Comfortable operation

The standard design contains a precise aluminium guide profile – can optionally be combined with a steel guide profile.

Flexible planning

The door posts are provided for transit and also for corner situations. These have a positive influence on the assembly time and the flexibility at site.

Maximum shock resilience

All elements are sand-blasted and powder-coated.

Suitable for large openings

The sliding doors of the build STT are completely outside of the open width.

Fast installation

Brühl doors are highly stable and ensure quick installation – without any time loss on the construction site.

Customer-specific solutions

An individual execution is possible depending on demand – in different colours and with hot-dip galvanisation. Telescoping sliding doors are available in combination with our attachment systems for safety switches.

SAFETY DOORS

Technical data for telescopic sliding doors Special productions on request.

Product group/build	STT	STBT	DSTT
Dimensions			
max. axle size in mm	5430	6030	5030
max. door-/fence height in mm	2600	2600	2600
Rail running profile			
Aluminium guide profile	●	×	●
Steel guide profile	×	●	×
Frame filling			
FLEX II	●	●	●
Wave grid 40	●	●	●
Wave grid 25	●	●	●
Welding grid 40	●	●	●
Polycarbonate	●	●	●
Sheet metal	●	●	●
Perforated sheet round holes Rv 5-8	●	●	●
Perforated sheet square holes Qg 8-12	●	●	●
Process view – Sight protection glass reddish-brown	●	●	●
Process view – Sight protection glass green	●	●	●
Process view – Polycarbonate	●	●	●
Brühl door accessories			
Door sets	●	●	●
Handles	●	●	●
Attachment systems for safety switches			
Retaining plate system BRÜHL-HP-S®	●	●	●
Handle preparation BRÜHL-GV	●	●	●
Switching cam system BRÜHL-SN-S	●	●	●
Safety switch preparation BRÜHL-SV	●	●	●
Surfaces			
Powder-coating	●	●	●
Hot-dip galvanised surface	●	●	●
Ground clearance			
Standard	175 mm	175 mm	175 mm
Reduced	20 mm	20 mm	20 mm

● Combination is possible. × Combination is not possible. ○ Combination is optional.

Sliding door for handle or hook lock, telescoping

Product group/build
STT

Illustration shows STT with door set TG-V2.



DOOR ACCESSORIES



Door sets



Lock set

ATTACHMENT SYSTEMS FOR SAFETY SWITCHES



Retaining plate system



Switch preparation

- Door accessories (see p. 170) and attachment systems for safety switches (as of p. 127) must be ordered separately.
- For a combination overview of all matching door accessories and attachment systems, see p. 185.
- Please indicate safety switch and actuator types.

Illustration shows STT with a grip system.



DOOR ACCESSORIES



Handle



Handle with bullet crossbow

ATTACHMENT SYSTEMS FOR SAFETY SWITCHES



Handle preparation



Retaining plate system

- Door accessories (see p. 170) and attachment systems for safety switches (as of p. 127) must be ordered separately.
- For a combination overview of all matching door accessories and attachment systems, see p. 185.
- Please indicate safety switch and actuator types.

The telescoping sliding doors are equipped with a special aluminium profile that ensures highly precise movement paths. The wings are arranged in parallel in the guide profiles and can be opened easily to the left or right outside of the open width. The door posts of this door are made of a stable steel profile with welded-on square bottom plate. By default, the two door posts are prepared for a corner and passage situation.

Sliding door for handle or hook lock, telescoping

Build	Opening direction		Wing profile				Safety fence system / filling												Ground clearance	Fence height	Axle size from post centre to post centre												
	Opening to the left	Opening to the right	≤ 4000 mm axle size		>4000 mm axle size		ZAUN II						WAND II								175 mm	20 mm	800	1000	...	3800	4000	4200	4400	...	5200	5400	
			QR35	RP106	RR50x34	RP1191	FLEX II	Grid fillings				Area elements		Process view																			
								FLEX II	Wave grid 40	Wave grid 25	Weiding grid 40	Sheet metal	Polycarbonate	Perforated sheet Round perforation	Perforated sheet Square holes	Sheet metal	Polycarbonate	Sight protection glass reddish-brown															Sight protection glass green
STT	-L	-R	-QR80	-QR35	-RP106	-RR50x34	-RP1191	-F	-Z-GF-F	-Z-GF-WG40	-Z-GF-WG25	-Z-GF-SG40	-Z-FE-BL	-Z-FE-P	-Z-FE-LBR	-Z-FE-LBQ	-W-BL	-W-PE-P	-W-PE-SSB	-W-PE-SSG	-175	-20	-2000	-800	-1000	...	-3800	-4000	-4200	-4400	...	-5200	-5400
STT	-L	-R	-QR80	-QR35	-RP106	-RR50x34	-RP1191	-F	-Z-GF-F	-Z-GF-WG40	-Z-GF-WG25	-Z-GF-SG40	-Z-FE-BL	-Z-FE-P	-Z-FE-LBR	-Z-FE-LBQ	-W-BL	-W-PE-P	-W-PE-SSB	-W-PE-SSG	-175	-20	-2200	-800	-1000	...	-3800	-4000	-4200	-4400	...	-5200	-5400
STT	-L	-R	-QR80	-QR35	-RP106	-RR50x34	-RP1191	-F	-Z-GF-F	-Z-GF-WG40	-Z-GF-WG25	-Z-GF-SG40	-Z-FE-BL	-Z-FE-P	-Z-FE-LBR	-Z-FE-LBQ	-W-BL	-W-PE-P	-W-PE-SSB	-W-PE-SSG	-175	-20	-2400	-800	-1000	...	-3800	-4000	-4200	-4400	...	-5200	-5400
STT	-L	-R	-QR80	-QR35	-RP106	-RR50x34	-RP1191	-F	-Z-GF-F	-Z-GF-WG40	-Z-GF-WG25	-Z-GF-SG40	-Z-FE-BL	-Z-FE-P	-Z-FE-LBR	-Z-FE-LBQ	-W-BL	-W-PE-P	-W-PE-SSB	-W-PE-SSG	-175	-20	-2600	-800	-1000	...	-3800	-4000	-4200	-4400	...	-5200	-5400

Example for item number key Build-opening direction-post profile-wing profile-safety fence system/filling-ground clearance-fence height-axle size **STT-R-QR80-RP106-Z-FE-P-175-2600-2630**
For dimensions that are not in the table, **SO-** must be put in front of the item number and the special size must be entered in the corresponding location in the item number (e.g. **SO-STT-R-QR80-RP106-Z-FE-P-20-2600-1750** for special axle size 1750).

FLOOR ATTACHMENT

Required number	12 pcs.
Attachment type	Fixed or shear connector
Size · Length	M12 · 145/160 mm
Weight example STT 2000x2030 mm	105.96 kg

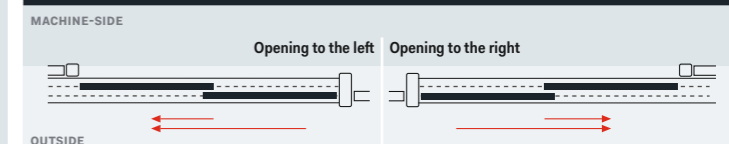
PRODUCT OPTION: HEIGHT COMPENSATION



Optional with post -J for height adjustment.

- Axle size in post profile QR80 +30 mm
- Width and height of the lights can be reduced according to the system for safety switches or door accessories.
- Please order floor attachment media separately. See p. 168.
- Perforated sheet: Round holes Rv 5-8 / square holes Qg 8-12
- Available with 2 wings.
- Doors by default with 175 mm ground clearance.
- For frame filling, see table p. 186.
- Bottom plate for handle posts centred in the middle by default; centred at the front for guide and additional posts by default. For specific floor plate positioning, see p. 187.

DOOR OPENING



Sliding door for handle or hook lock, opening on both sides, telescoping

Product group/build
STBT

Illustration shows STBT with door set TG-V2.



MACHINE-SIDE

OUTSIDE

DOOR ACCESSORIES



Door sets (2x)



Lock set (2x)

ATTACHMENT SYSTEMS FOR SAFETY SWITCHES



Retaining plate system (2x)



Switch preparation (2x)

- Door accessories (see p. 170) and attachment systems for safety switches (as of p. 127) must be ordered separately.
- For a combination overview of all matching door accessories and attachment systems, see p. 185.
- Please indicate safety switch and actuator types.

Illustration shows STBT with a grip system.



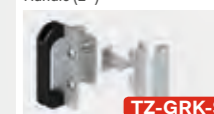
OUTSIDE

MACHINE-SIDE

DOOR ACCESSORIES



Handle (2x)



Handle with bullet crossbow (2x)

ATTACHMENT SYSTEMS FOR SAFETY SWITCHES



Handle preparation (2x)



Retaining plate system (2x)

- Door accessories (see p. 170) and attachment systems for safety switches (as of p. 127) must be ordered separately.
- For a combination overview of all matching door accessories and attachment systems, see p. 185.
- Please indicate safety switch and actuator types.

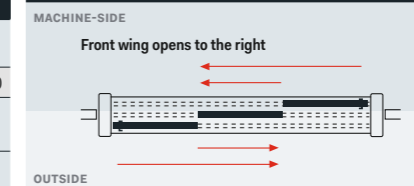
The bilaterally opening and telescoping sliding doors are equipped with a steel guide profile that ensures very precise movement paths. The door posts of this door are made of a stable steel profile with welded-on square bottom plate. By default, the two door posts are prepared for a corner and passage situation. The wings are arranged in parallel in the guide profiles and within the portal and can be opened easily to the left or right outside of the open width.

Sliding door for handle or hook lock, opening on both sides, telescoping

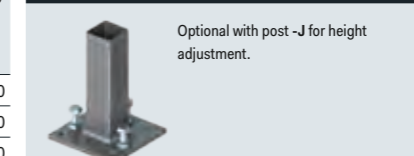
Build	Opening direction	Post profile	Wing profile				Safety fence system / filling												Ground clearance	Fence height	Axle size from post centre to post centre											
			≤ 4000 mm axle size		> 4000 mm axle size		ZAUN II						WAND II								1600	1800	...	3800	4000	4200	4400	...	5800	6000		
			QR35	RP106	RR50x34	RP1191	Grid fillings			Area elements			Process view			Open width																
			FLEX II	FLEX II	Wave grid 40	Wave grid 25	Welding grid 40	Sheet metal	Polycarbonate	Perforated sheet Round perforation	Perforated sheet Square holes	Sheet metal	Polycarbonate	Sight protection glass reddish-brown	Sight protection glass green	790	930	...			2260	2390	2530	2660	...	3590	3730					
STBT	-R	-RR80x120	-QR35	-RP106	-RR50x34	-RP1191	-F	-Z-GF-F	-Z-GF-WG40	-Z-GF-WG25	-Z-GF-SG40	-Z-FE-BL	-Z-FE-P	-Z-FE-LBR	-Z-FE-LBQ	-W-BL	-W-PE-P	-W-PE-SSB	-W-PE-SSG	-175	-20	-2000	-1600	-1800	...	-3800	-4000	-4200	-4400	...	-5800	-6000
STBT	-R	-RR80x120	-QR35	-RP106	-RR50x34	-RP1191	-F	-Z-GF-F	-Z-GF-WG40	-Z-GF-WG25	-Z-GF-SG40	-Z-FE-BL	-Z-FE-P	-Z-FE-LBR	-Z-FE-LBQ	-W-BL	-W-PE-P	-W-PE-SSB	-W-PE-SSG	-175	-20	-2200	-1600	-1800	...	-3800	-4000	-4200	-4400	...	-5800	-6000
STBT	-R	-RR80x120	-QR35	-RP106	-RR50x34	-RP1191	-F	-Z-GF-F	-Z-GF-WG40	-Z-GF-WG25	-Z-GF-SG40	-Z-FE-BL	-Z-FE-P	-Z-FE-LBR	-Z-FE-LBQ	-W-BL	-W-PE-P	-W-PE-SSB	-W-PE-SSG	-175	-20	-2400	-1600	-1800	...	-3800	-4000	-4200	-4400	...	-5800	-6000
STBT	-R	-RR80x120	-QR35	-RP106	-RR50x34	-RP1191	-F	-Z-GF-F	-Z-GF-WG40	-Z-GF-WG25	-Z-GF-SG40	-Z-FE-BL	-Z-FE-P	-Z-FE-LBR	-Z-FE-LBQ	-W-BL	-W-PE-P	-W-PE-SSB	-W-PE-SSG	-175	-20	-2600	-1600	-1800	...	-3800	-4000	-4200	-4400	...	-5800	-6000

Example for item number key Build-opening direction-post profile-wing profile-safety fence system/filling-ground clearance-fence height-axle size **STBT-R-RR80x120-QR35-Z-GF-SG40-175-2200-2830**
 For dimensions that are not in the table, **SO-** must be put in front of the item number and the special size must be entered in the corresponding location in the item number (e.g. **SO-STBT-R-RR80x120-RP106-Z-FE-P-20-2600-1750** for special axle size 1750).

DOOR OPENING



PRODUCT OPTION: HEIGHT COMPENSATION



FLOOR ATTACHMENT

Required number	8 pcs.
Attachment type	Fixed or shear connector
Size · Length	M12 · 145/160 mm
Weight example STBT 2200x3000 mm	134.9 kg

- Axle size in post profile QR80 + 30 mm
- Width and height of the lights can be reduced according to the system for safety switches or door accessories.
- Please order floor attachment media separately. See p. 168.
- Perforated sheet: Round holes Rv 5-8 / square holes Qg 8-12
- Available with 3 wings.
- Doors by default with 175 mm ground clearance.
- Design of lock set: Outer wing is provided for a Euro profile cylinder dia 17mm with a length of 30/10 mm. The inner wing is provided for a Euro profile cylinder dia 17mm with a length of 30/65 mm
- For frame filling, see table p. 186.
- Floor plates centred in the middle by default. For specific floor plate positioning, see p. 187.
- Compare door STB p. 92.

SAFETY DOORS



Double sliding door for handle or hook lock, telescoping

Product group/build
DSTT

Illustration shows DSTT with door set TG-V2.



DOOR ACCESSORIES



Door sets



Lock set

ATTACHMENT SYSTEMS FOR SAFETY SWITCHES



Retaining plate system (2x)



Switch preparation (2x)

- Door accessories (see p. 170) and attachment systems for safety switches (as of p. 127) must be ordered separately.
- For a combination overview of all matching door accessories and attachment systems, see p. 185.
- Please indicate safety switch and actuator types.

Illustration shows DSTT with a grip system.



DOOR ACCESSORIES



Handle (2x)



Handle with bullet crossbow

ATTACHMENT SYSTEMS FOR SAFETY SWITCHES



Retaining plate system (2x)



Handle preparation

- Door accessories (see p. 170) and attachment systems for safety switches (as of p. 127) must be ordered separately.
- For a combination overview of all matching door accessories and attachment systems, see p. 185.
- Please indicate safety switch and actuator types.

The telescoping double sliding doors are equipped with a special aluminium profile that ensures highly precise movement paths. The door wings of the door can be opened to the left and right outside of the open width. The door posts are made of a stable steel profile with welded-on square bottom plate. By default, the two door posts are prepared for a corner and passage situation.

Double sliding door for handle or hook lock, telescoping

Build	Opening direction		Post profile	Wing profile	Safety fence system / filling														Ground clearance		Axle size ① from post centre to post centre												
	Opening to the left	Opening to the right			ZAUN II							WAND II							175 mm	20 mm	Open width ②												
					Grid fillings				Area elements			Process view				2200	2400	2600			2800	3000	3200	3400	3600	3800	4000	4200	4400	4600	4800	5000	
					FLEX II	FLEX II	Wave grid 40	Wave grid 25	Welding grid 40	Sheet metal	Polycarbonate	Perforated sheet Round perforation	Perforated sheet Square holes	Sheet metal	Polycarbonate																		Sight protection-pane reddish-brown
DSTT	-L	-R	-QR80	-QR35	-RP106	-F	-Z-GF-F	-Z-GF-WG40	-Z-GF-WG25	-Z-GF-SG40	-Z-FE-BL	-Z-FE-P	-Z-FE-LBR	-Z-FE-LBQ	-W-BL	-W-PE-P	-W-PE-SSB	-W-PE-SSG	-175	-20	-2000	-2800	-3000	-3200	-3400	-3600	-3800	-4000	-4200	-4400	-4600	-4800	-5000
DSTT	-L	-R	-QR80	-QR35	-RP106	-F	-Z-GF-F	-Z-GF-WG40	-Z-GF-WG25	-Z-GF-SG40	-Z-FE-BL	-Z-FE-P	-Z-FE-LBR	-Z-FE-LBQ	-W-BL	-W-PE-P	-W-PE-SSB	-W-PE-SSG	-175	-20	-2200	-2800	-3000	-3200	-3400	-3600	-3800	-4000	-4200	-4400	-4600	-4800	-5000
DSTT	-L	-R	-QR80	-QR35	-RP106	-F	-Z-GF-F	-Z-GF-WG40	-Z-GF-WG25	-Z-GF-SG40	-Z-FE-BL	-Z-FE-P	-Z-FE-LBR	-Z-FE-LBQ	-W-BL	-W-PE-P	-W-PE-SSB	-W-PE-SSG	-175	-20	-2400	-2800	-3000	-3200	-3400	-3600	-3800	-4000	-4200	-4400	-4600	-4800	-5000
DSTT	-L	-R	-QR80	-QR35	-RP106	-F	-Z-GF-F	-Z-GF-WG40	-Z-GF-WG25	-Z-GF-SG40	-Z-FE-BL	-Z-FE-P	-Z-FE-LBR	-Z-FE-LBQ	-W-BL	-W-PE-P	-W-PE-SSB	-W-PE-SSG	-175	-20	-2600	-2800	-3000	-3200	-3400	-3600	-3800	-4000	-4200	-4400	-4600	-4800	-5000

Example for item number key Build-opening direction-post profile-wing profile-safety fence system/filling-ground clearance-fence height-axle size **DSTT-L-QR80-QR35-Z-GF-F-175-2400-3630**
 For dimensions that are not in the table, **SO-** must be put in front of the item number and the special size must be entered in the corresponding location in the item number (e.g. **SO-DSTT-L-QR80-QR35-Z-GF-F-175-2400-2750** for special axle size 2750).

PRODUCT OPTION: HEIGHT COMPENSATION



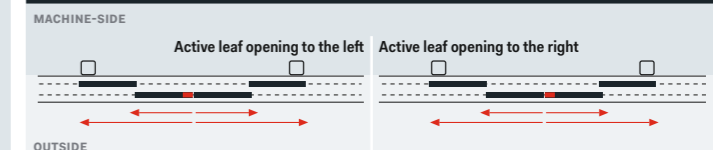
Optional with post -J for height adjustment.

- ① Axle size in post profile QR80 +30 mm
- ② Width and height of the lights can be reduced according to the system for safety switches or door accessories.
- ③ Please order floor attachment media separately. See p. 168.
- ④ Perforated sheet: Round holes Rv 5-8 / square holes Qg 8-12
- ⑤ Available with 4 wings.
- ⑥ Doors by default with 175 mm ground clearance.
- ⑦ For frame filling, see table p. 186.
- ⑧ Floor plates at the front centre by default. For specific floor plate positioning, see p. 187.

FLOOR ATTACHMENT ⑧

Required number	16 pcs.
Attachment type	Fixed or shear connector
Size · Length	M12 · 145/160 mm
Weight example DSTT 2200x3010 mm	145.7 kg

DOOR OPENING



Self-supported sliding doors

No limitation of the open height

Where use of guide elements on the floor (stacker traffic) or in the upper area (crane) is not possible, self-supported sliding doors are used. If you need particularly space-saving solutions, choose telescoping or two-wing sliding doors.

No interfering elements in the opening area

Telescoping or two-wing versions minimise the overall space demand

Highly stable portal construction with firmly welded guide strut – no construction kit system

Overview: Advantages of the self-supported sliding doors

No interfering guide elements

No guide elements on the floor or above the open height. Smoothly running, long-lived guide elements. Precise ball-carriage guide available as an option.

Simple height adjustment

A height adjustment of the guide elements is quickly possible via adjustment screws.

Small space demand

The FSTST/FSTGT builds are given a telescoping wing guide to minimise the overall space demand. The two-wing build FSTG-2/FSTS-2 is used for further space demand reduction.

Suitable for large openings

The opposite arrangement of two self-supported sliding doors for securing openings permits use in openings of up to 8 m. Two-wing design to bridge large openings is possible.

Maximum shock resilience

All elements are sand-blasted and powder-coated.

Flexible planning

The fence route can be installed in any manner. This positively influences the assembly time and flexibility on the construction site.

Customer-specific solutions

An individual execution is possible depending on demand – in different colours and with hot-dip galvanisation. Self-supported sliding doors are available in combination with our attachment systems for safety switches.

Fast installation

Brühl doors are highly stable and ensure quick installation – without any time loss on the construction site, since they are entirely pre-installed.

Technical data for self-supported sliding doors Special productions on request.

Product group/build	FSTS	FSTG	FSTST	FSTGT	FSTS-2	FSTG-2
Dimensions						
max. axle size in mm	4830	4830	4030	4030	4030	4030
max. door-/fence height in mm	2600	2600	2600	2600	2600	2600
Build						
Telescopic guide	x	x	•	•	x	x
Frame filling						
FLEX II	•	•	•	•	•	•
Wave grid 40	•	•	•	•	•	•
Sheet metal 1.5 mm	•	•	•	•	•	•
Polycarbonate 5 mm	•	•	•	•	•	•
Wave grid 25	•	•	•	•	•	•
Welding grid 40	•	•	•	•	•	•
Perforated sheet round holes Rv 5-8	•	•	•	•	•	•
Perforated sheet square holes Qg 8-12	•	•	•	•	•	•
Process view – Sight protection glass reddish-brown	•	•	•	•	•	•
Process view – Sight protection glass green	•	•	•	•	•	•
Process view – Polycarbonate	•	•	•	•	•	•
Attachment systems for safety switches						
Retaining plate system BRÜHL-HP-S®	•	•	•	•	x	x
Handle preparation BRÜHL-GV	x	•	x	•	x	•
Safety switch preparation BRÜHL-SV	•	•	•	•	•	•
Surfaces						
Powder-coating/paint	•	•	•	•	•	•
Hot-dip galvanised surface	•	•	•	•	•	•
Ground clearance						
Standard	175 mm	175 mm	175 mm	175 mm	175 mm	175 mm
Reduced	50 mm	50 mm	x	x	x	x

• Combination is possible. x Combination is not possible. o Combination is optional.

Self-supported sliding door with hook lock

Product group/build
FSTS

Illustration shows FSTS (inner track) with door set TG-V2.

MACHINE-SIDE >

< OUTSIDE

The stop post of the self-supported sliding door with hook lock is prepared for a corner and passage situation by default. The guide of steel profile with ball-bearing casters ensures particularly precise movement paths. The door has no interfering guide elements in the opening area.

DOOR ACCESSORIES

Door sets

ATTACHMENT SYSTEMS FOR SAFETY SWITCHES

Retaining plate system

- Door accessories (see p. 170) and attachment systems for safety switches (as of p. 127) must be ordered separately.
- For a combination overview of all matching door accessories and attachment systems, see p. 185.
- Please indicate safety switch and actuator types.

Self-supported sliding door for handle

Product group/build
FSTG

Illustration shows FSTG (running on outside) with a grip system.

> OUTSIDE

< MACHINE-SIDE

The guide of steel profile with ball-bearing casters ensures particularly precise movement paths in the self-supported sliding door. The door has no interfering elements in the opening area, and the stop post is prepared for a corner and passage situation by default.

DOOR ACCESSORIES

Handle

ATTACHMENT SYSTEMS FOR SAFETY SWITCHES

Handle preparation

Retaining plate system

- Door accessories (see p. 170) and attachment systems for safety switches (as of p. 127) must be ordered separately.
- For a combination overview of all matching door accessories and attachment systems, see p. 185.
- Please indicate safety switch and actuator types.

Self-supported sliding door with hook lock / self-supported sliding door for handle

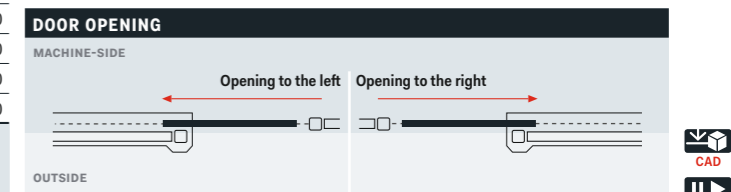
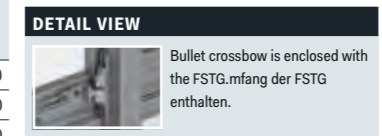
Build	Opening direction	Opening direction		Post profile	Floor guide		Wing profile	Safety fence system / filling																Ground clearance		Axle size from post centre to post centre																															
								ZAUN II								WAND II										800				1000				2200				2400				2600				2800				4600				4800			
								Grid fillings				Area elements				Process view				Open width						590				790				1990				2190				2390				2590				4390				4590			
								Sheet metal	Polycarbonate	Perforated sheet	Round perforation	Perforated sheet	Square holes	Sheet metal	Polycarbonate	Sight protection - pane reddish-brown	Sight protection glass green	Sheet metal	Polycarbonate	Sight protection - pane reddish-brown	Sight protection glass green	Sheet metal	Polycarbonate			Sight protection - pane reddish-brown	Sight protection glass green	175 mm	50 mm	Fence height	800				1000				2200				2400				2600				2800				4600		
FSTS	FSTG	-L	-R	-QR80	-408	-510	-QR40	-RP1008	-F	-Z-GF-F	-Z-GF-WG40	-Z-GF-WG25	-Z-GF-SG40	-Z-FE-BL	-Z-FE-P	-Z-FE-LBR	-Z-FE-LBQ	-W-BL	-	-	-	-175	-50	-1400	-800	-1000	...	-2200	-2400	-2600	-2800	...	-4600	-4800																							
FSTS	FSTG	-L	-R	-QR80	-408	-510	-QR40	-RP1008	-F	-Z-GF-F	-Z-GF-WG40	-Z-GF-WG25	-Z-GF-SG40	-Z-FE-BL	-Z-FE-P	-Z-FE-LBR	-Z-FE-LBQ	-W-BL	-	-	-	-175	-50	-1600	-800	-1000	...	-2200	-2400	-2600	-2800	...	-4600	-4800																							
FSTS	FSTG	-L	-R	-QR80	-408	-510	-QR40	-RP1008	-F	-Z-GF-F	-Z-GF-WG40	-Z-GF-WG25	-Z-GF-SG40	-Z-FE-BL	-Z-FE-P	-Z-FE-LBR	-Z-FE-LBQ	-W-BL	-	-	-	-175	-50	-1800	-800	-1000	...	-2200	-2400	-2600	-2800	...	-4600	-4800																							
FSTS	FSTG	-L	-R	-QR80	-408	-510	-QR40	-RP1008	-F	-Z-GF-F	-Z-GF-WG40	-Z-GF-WG25	-Z-GF-SG40	-Z-FE-BL	-Z-FE-P	-Z-FE-LBR	-Z-FE-LBQ	-W-BL	-W-PE-P	-W-PE-SSB	-W-PE-SSG	-175	-50	-2000	-800	-1000	...	-2200	-2400	-2600	-2800	...	-4600	-4800																							
FSTS	FSTG	-L	-R	-QR80	-408	-510	-QR40	-RP1008	-F	-Z-GF-F	-Z-GF-WG40	-Z-GF-WG25	-Z-GF-SG40	-Z-FE-BL	-Z-FE-P	-Z-FE-LBR	-Z-FE-LBQ	-W-BL	-W-PE-P	-W-PE-SSB	-W-PE-SSG	-175	-50	-2200	-800	-1000	...	-2200	-2400	-2600	-2800	...	-4600	-4800																							
FSTS	FSTG	-L	-R	-QR80	-408	-510	-QR40	-RP1008	-F	-Z-GF-F	-Z-GF-WG40	-Z-GF-WG25	-Z-GF-SG40	-Z-FE-BL	-Z-FE-P	-Z-FE-LBR	-Z-FE-LBQ	-W-BL	-W-PE-P	-W-PE-SSB	-W-PE-SSG	-175	-50	-2400	-800	-1000	...	-2200	-2400	-2600	-2800	...	-4600	-4800																							
FSTS	FSTG	-L	-R	-QR80	-408	-510	-QR40	-RP1008	-F	-Z-GF-F	-Z-GF-WG40	-Z-GF-WG25	-Z-GF-SG40	-Z-FE-BL	-Z-FE-P	-Z-FE-LBR	-Z-FE-LBQ	-W-BL	-W-PE-P	-W-PE-SSB	-W-PE-SSG	-175	-50	-2600	-800	-1000	...	-2200	-2400	-2600	-2800	...	-4600	-4800																							

Example for item number key Build-opening direction-post profile-helmet and bottom guide-wing profile-safety fence system/filling-ground clearance-fence height-axle size
FSTS-L-QR80-510-QR40-Z-GF-F-175-1800-3630 or **FSTG-L-QR80-510-QR40-Z-GF-F-175-1800-3630**
 For dimensions that are not in the table, **SO-** must be put in front of the item number and the special size must be entered in the corresponding location in the item number (e.g. **SO-FSTS-L-QR80-510-QR40-Z-GF-F-175-1800-2750** for special axle size 2750).

FLOOR ATTACHMENT

Required number	10 pcs.
Attachment type	Fixed or shear connector
Size · Length	M10 · 120/130 mm
Weight example FSTS 2000x3030 mm	144.37 kg
Weight example FSTG 2000x3030 mm	141.48 kg

- Axle size in post profile QR80 +30 mm
- Width and height of the lights can be reduced according to the system for safety switches or door accessories.
- Please order floor attachment media separately. See p. 168.
- Perforated sheet: Round holes Rv 5-8 / square holes Qg 8-12
- Doors are delivered with inner track by default. Available with outer track on request.
- Formula for calculation of the space demand see p. 184.



SAFETY DOORS



Self-supported sliding door with hook lock and telescopic guide

Self-supported sliding door for handle, with telescopic guide

Product group/build
FSTST

Illustration shows FSTST (inner track) with door set TG-V2.

MACHINE-SIDE > < OUTSIDE

DOOR ACCESSORIES

Door sets

ATTACHMENT SYSTEMS FOR SAFETY SWITCHES

Retaining plate system

The stop post of the telescoping self-supported sliding door with hook lock is prepared for a corner and passage situation by default. The telescoping guide of steel profile with ball-bearing casters ensures particularly precise movement paths. The door has no interfering guide elements in the opening area.

- Door accessories (see p. 170) and attachment systems for safety switches (as of p. 127) must be ordered separately.
- For a combination overview of all matching door accessories and attachment systems, see p. 185.
- Please indicate safety switch and actuator types.

Product group/build
FSTGT

Illustration shows FSTGT (outer track) with a grip system.

OUTSIDE > < MACHINE-SIDE

DOOR ACCESSORIES

Handle

ATTACHMENT SYSTEMS FOR SAFETY SWITCHES

Handle preparation

Retaining plate system

The stop post of the telescoping self-supported sliding door for grip is prepared for a corner and passage situation by default. The door has no interfering guide elements in the opening area. The telescoping guide of steel profile with ball-bearing casters ensures particularly precise movement paths of the door.

- Door accessories (see p. 170) and attachment systems for safety switches (as of p. 127) must be ordered separately.
- For a combination overview of all matching door accessories and attachment systems, see p. 185.
- Please indicate safety switch and actuator types.

SAFETY DOORS

Self-supported sliding door with hook lock and telescopic guide / self-supported sliding door for handle and telescopic guide

Build	Opening direction		Post profile	Floor guide		Interim guide		Wing profile		Safety fence system / filling										Safety fence system / filling		Ground clearance	Axle size from post centre to post centre													
	Opening to the left	Opening to the right		≤ 2530 mm	≥ 2530 mm	≤ 2530 mm	≥ 2530 mm	ZAUN II		WAND II										175 mm	50 mm		Open width													
								Grid fillings					Area elements					Process view																		
								QR40	RP1008	FLEX II	FLEX II	Wave grid 40	Wave grid 25	Welding grid 40	Sheet metal	Polycarbonate	Perforated sheet Round perforation	Perforated sheet Square holes	Sheet metal				Polycarbonate	Sight protection glass reddish-brown	Sight protection glass green	W-PE-P	W-PE-SSB	W-PE-SSG								
FSTST	FSTGT	-L	-R	-QR80	-508	-510	-407	-409	-QR40	-RP1008	-F	-Z-GF-F	-Z-GF-WG40	-Z-GF-WG25	-Z-GF-SG40	-Z-FE-BL	-Z-FE-P	-Z-FE-LBR	-Z-FE-LBQ	-W-BL	-	-	-	-175	-50	-1400	-800	-1000	...	-2200	-2400	-2600	-2800	...	-3800	-4000
FSTST	FSTGT	-L	-R	-QR80	-508	-510	-407	-409	-QR40	-RP1008	-F	-Z-GF-F	-Z-GF-WG40	-Z-GF-WG25	-Z-GF-SG40	-Z-FE-BL	-Z-FE-P	-Z-FE-LBR	-Z-FE-LBQ	-W-BL	-	-	-	-175	-50	-1600	-800	-1000	...	-2200	-2400	-2600	-2800	...	-3800	-4000
FSTST	FSTGT	-L	-R	-QR80	-508	-510	-407	-409	-QR40	-RP1008	-F	-Z-GF-F	-Z-GF-WG40	-Z-GF-WG25	-Z-GF-SG40	-Z-FE-BL	-Z-FE-P	-Z-FE-LBR	-Z-FE-LBQ	-W-BL	-	-	-	-175	-50	-1800	-800	-1000	...	-2200	-2400	-2600	-2800	...	-3800	-4000
FSTST	FSTGT	-L	-R	-QR80	-508	-510	-407	-409	-QR40	-RP1008	-F	-Z-GF-F	-Z-GF-WG40	-Z-GF-WG25	-Z-GF-SG40	-Z-FE-BL	-Z-FE-P	-Z-FE-LBR	-Z-FE-LBQ	-W-BL	-W-PE-P	-W-PE-SSB	-W-PE-SSG	-175	-50	-2000	-800	-1000	...	-2200	-2400	-2600	-2800	...	-3800	-4000
FSTST	FSTGT	-L	-R	-QR80	-508	-510	-407	-409	-QR40	-RP1008	-F	-Z-GF-F	-Z-GF-WG40	-Z-GF-WG25	-Z-GF-SG40	-Z-FE-BL	-Z-FE-P	-Z-FE-LBR	-Z-FE-LBQ	-W-BL	-W-PE-P	-W-PE-SSB	-W-PE-SSG	-175	-50	-2200	-800	-1000	...	-2200	-2400	-2600	-2800	...	-3800	-4000
FSTST	FSTGT	-L	-R	-QR80	-508	-510	-407	-409	-QR40	-RP1008	-F	-Z-GF-F	-Z-GF-WG40	-Z-GF-WG25	-Z-GF-SG40	-Z-FE-BL	-Z-FE-P	-Z-FE-LBR	-Z-FE-LBQ	-W-BL	-W-PE-P	-W-PE-SSB	-W-PE-SSG	-175	-50	-2600	-800	-1000	...	-2200	-2400	-2600	-2800	...	-3800	-4000

FLOOR ATTACHMENT

Required number: 10 pcs.

Attachment type: Fixed or shear connector

Size · Length: M10 · 120/130 mm

Weight example FSTGT 2000x1000 mm: 92.81 kg

Weight example FSTST 2000x1000 mm: 95.8 kg

DETAIL VIEW

Bullet crossbow is included in the delivery of the FSTGT.

- Axle size in post profile QR80 +30 mm
- Width and height of the lights can be reduced according to the system for safety switches or door accessories.
- Please order floor attachment media separately. See p. 168.
- Perforated sheet: Round holes Rv 5-8 / square holes Qg 8-12
- Doors are delivered with inner track by default. Available with outer track on request.
- Formula for calculation of the space demand see p. 184.

Example for item number key Build-opening direction-post profile-helmet and bottom guide-interim guide-wing profile-safety fence system/filling-ground clearance-fence height-axle size
FSTST-L-QR80-510-QR40-Z-GF-F-175-1800-3630 or **FSTGT-L-QR80-510-QR40-Z-GF-175-1800-3630**
 For dimensions that are not in the table, SO- must be put in front of the item number and the special size must be entered in the corresponding location in the item number (e.g. **SO-FSTGT-L-QR80-510-QR40-Z-GF-F-175-1800-2750** for special axle size 2750).

DOOR OPENING

MACHINE-SIDE > < OUTSIDE

Opening to the left < > Opening to the right

CAD MOV PICT

Self-supported sliding door with hook lock, two wings

Product group/build
FSTS-2

Illustration shows FSTS-2 (outer track) with door set TG-V2.

DOOR ACCESSORIES

Door sets **TG**

ATTACHMENT SYSTEMS FOR SAFETY SWITCHES

Switch preparation **SV**

DOOR ACCESSORIES

Handle **TZ-GR-S**

ATTACHMENT SYSTEMS FOR SAFETY SWITCHES

Handle preparation **GV-S**

The stop post of the two-wing self-supported sliding door with hook lock is prepared for a corner and passage situation by default. The guide of steel profile with ball-bearing casters ensures particularly precise movement paths. The door has no interfering guide elements in the opening area.

- Door accessories (see p. 170) and attachment systems for safety switches (as of p. 127) must be ordered separately.
- For a combination overview of all matching door accessories and attachment systems, see p. 185.
- Please indicate safety switch and actuator types.

Self-supported sliding door for handle, two wings

Product group/build
FSTG-2

Illustration shows FSTG-2 (inner track) with a grip system.

DOOR ACCESSORIES

Handle **TZ-GR-S**

ATTACHMENT SYSTEMS FOR SAFETY SWITCHES

Handle preparation **GV-S**

DOOR ACCESSORIES

Handle **TZ-GR-S**

ATTACHMENT SYSTEMS FOR SAFETY SWITCHES

Handle preparation **GV-S**

The guide of steel profile with ball-bearing casters ensures particularly precise movement paths in the self-supported sliding door with two wings. The door has no interfering elements in the opening area, and the stop post is prepared for a corner and passage situation by default.

- Door accessories (see p. 170) and attachment systems for safety switches (as of p. 127) must be ordered separately.
- For a combination overview of all matching door accessories and attachment systems, see p. 185.
- Please indicate safety switch and actuator types.

Self-supported sliding door with hook lock, two wings / self-supported sliding door for handle, two wings

Build	Opening direction	Safety fence system / filling																		Ground clearance		Axle size ① from post centre to post centre							
		Opening to the left		Opening to the right		Post profile		Bottom guide		Interim guide		Wing profile						Process view											
												ZAUN II			WAND II														
												Grid fillings			Area elements														
FSTS-2	FSTG-2	-L	-R	-QR80	-510	-408	-QR40	-RP1008	-F	-Z-GF-F	-Z-GF-WG40	-Z-GF-WG25	-Z-GF-SG40	-Z-FE-BL	-Z-FE-P	-Z-FE-LBR	-Z-FE-LBQ	-W-BL	-	-	-	-175	-50	-1400	-800	-1000	...	-3800	-4000
FSTS-2	FSTG-2	-L	-R	-QR80	-510	-408	-QR40	-RP1008	-F	-Z-GF-F	-Z-GF-WG40	-Z-GF-WG25	-Z-GF-SG40	-Z-FE-BL	-Z-FE-P	-Z-FE-LBR	-Z-FE-LBQ	-W-BL	-	-	-	-175	-50	-1600	-800	-1000	...	-3800	-4000
FSTS-2	FSTG-2	-L	-R	-QR80	-510	-408	-QR40	-RP1008	-F	-Z-GF-F	-Z-GF-WG40	-Z-GF-WG25	-Z-GF-SG40	-Z-FE-BL	-Z-FE-P	-Z-FE-LBR	-Z-FE-LBQ	-W-BL	-	-	-	-175	-50	-1800	-800	-1000	...	-3800	-4000
FSTS-2	FSTG-2	-L	-R	-QR80	-510	-408	-QR40	-RP1008	-F	-Z-GF-F	-Z-GF-WG40	-Z-GF-WG25	-Z-GF-SG40	-Z-FE-BL	-Z-FE-P	-Z-FE-LBR	-Z-FE-LBQ	-W-BL	-W-PE-P	-W-PE-SSB	-W-PE-SSG	-175	-50	-2000	-800	-1000	...	-3800	-4000
FSTS-2	FSTG-2	-L	-R	-QR80	-510	-408	-QR40	-RP1008	-F	-Z-GF-F	-Z-GF-WG40	-Z-GF-WG25	-Z-GF-SG40	-Z-FE-BL	-Z-FE-P	-Z-FE-LBR	-Z-FE-LBQ	-W-BL	-W-PE-P	-W-PE-SSB	-W-PE-SSG	-175	-50	-2200	-800	-1000	...	-3800	-4000
FSTS-2	FSTG-2	-L	-R	-QR80	-510	-408	-QR40	-RP1008	-F	-Z-GF-F	-Z-GF-WG40	-Z-GF-WG25	-Z-GF-SG40	-Z-FE-BL	-Z-FE-P	-Z-FE-LBR	-Z-FE-LBQ	-W-BL	-W-PE-P	-W-PE-SSB	-W-PE-SSG	-175	-50	-2400	-800	-1000	...	-3800	-4000
FSTS-2	FSTG-2	-L	-R	-QR80	-510	-408	-QR40	-RP1008	-F	-Z-GF-F	-Z-GF-WG40	-Z-GF-WG25	-Z-GF-SG40	-Z-FE-BL	-Z-FE-P	-Z-FE-LBR	-Z-FE-LBQ	-W-BL	-W-PE-P	-W-PE-SSB	-W-PE-SSG	-175	-50	-2600	-800	-1000	...	-3800	-4000

Example for item number key Build-opening direction-post profile-helmet and bottom guide-interim guide-wing profile-safety fence system/filling-ground clearance-fence height-axle size
FSTS-2-L-QR80-510-QR40-Z-GF-WG40-175-1800-3630 or **FSTG-2-L-QR80-510-QR40-Z-GF-WG40-175-1800-3630**
 For dimensions that are not in the table, **SO-** must be put in front of the item number and the special size must be entered in the corresponding location in the item number (e.g. **SO-FSTS-2-L-QR80-510-QR40-Z-GF-F-175-1800-2750** for special axle size 2750).

DOOR OPENING

MACHINE-SIDE

Opening to the left

OUTSIDE

DOOR OPENING

MACHINE-SIDE

Opening to the right

OUTSIDE

FLOOR ATTACHMENT ②

Required number	16 pcs.
Attachment type	Fixed or shear connector
Size · Length	M10 · 120/130 mm
Weight example FSTG-2 2200x3030 mm	189.6 kg
Weight example FSTS-2 2200x3030 mm	194.2 kg

- ① Axle size in post profile QR80 +30 mm
- ② Width and height of the lights can be reduced according to the system for safety switches or door accessories.
- ③ Please order floor attachment media separately. See p. 168.
- ④ Perforated sheet: Round holes Rv 5-8 / square holes Qg 8-12
- ⑤ Formula for calculation of the space demand see p. 184.

DETAIL VIEW

Bullet crossbow is included in the scope of delivery.

CAD
MOV
PICT

Lifting and folding fields

The slightly facility system access

The vertical movement direction makes hand-actuated lifting fields particularly space-saving. The weight runs concealed in the post to protect the machine operator. The wing is secured against falling off by several carrying elements. You do not always need a door to perform maintenance and adjustment work on the machines and systems. The folding fields by Brühl can be used for this.

Particularly smooth operation thanks to the concealed counter-weight

All wing fillings are available to match the safety fence system

Safety-switch attachment possible

Overview: Advantages...

... of the lifting fields

Low installation depth

The lifting fields move horizontally and therefore have a very low installation depth.

Comfortable operation

The optional linear guide makes the lifting fields particularly smooth and highly comfortable to operate.

No danger of injury

Safety is important to Brühl. All lifting fields are delivered with the gear covered.

Comprehensive safety equipment

The lifting fields are equipped with several carrying elements for optimal safety.

... of the folding fields

Flexible planning

The fence route can be installed in any manner. This positively influences the assembly time and flexibility on the construction site.

Fast installation

Brühl folding fields are highly stable and ensure quick installation – without any time loss on the construction site.

Customer-specific solutions

An individual execution is possible depending on demand – in different colours and with hot-dip galvanisation.

Maximum shock resilience

All elements are sand-blasted and powder-coated.

SAFETY DOORS


Technical data for lifting and folding fields ⓘ Special productions on request.				
Product group/build	HF	HFE	KF-U	KF-O
Dimensions				
max. width in mm	2900	2900	2900	2900
max. installation height in mm	3500	3500	×	×
max. folding field height in mm	×	×	1000	1000
Frame filling				
FLEX II	●	●	●	●
Wave grid 40	●	●	●	●
Sheet metal 1.5 mm	●	●	●	●
Polycarbonate 5 mm	●	●	●	●
Wave grid 25	●	●	●	●
Welding grid 40	●	●	●	●
Perforated sheet round holes Rv 5-8	●	●	●	●
Perforated sheet square holes Qg 8-12	●	●	●	●
Process view – Sight protection glass reddish-brown	●	●	●	●
Process view – Sight protection glass green	●	●	●	●
Process view – Polycarbonate	●	●	●	●
Attachment systems for safety switches				
Retaining plate system BRÜHL-HP-F®	×	×	●	●
Retaining plate system BRÜHL-HP-S®	●	●	×	×
Surfaces				
Powder-coating/paint	●	●	●	●
Hot-dip galvanised surface	●	●	●	●

● Combination is possible. × Combination is not possible. ○ Combination is optional.


Lifting field

Product group/build
HF

① Illustration shows HF with handle.




DOOR ACCESSORIES



TZ-GR-S

Handle

ATTACHMENT SYSTEMS FOR SAFETY SWITCHES



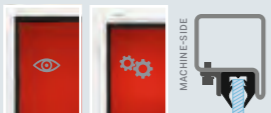
HP-S®

Retaining plate system

- Door accessories (see p. 170) and attachment systems for safety switches (as of p. 127) must be ordered separately.
- For a combination overview of all matching door accessories and attachment systems, see p. 185.
- ⓘ Please indicate safety switch and actuator types.

The lifting field is opened and closed manually. It is made of a stable steel structure with concealed weight. The lifting field is prepared for position switches and rails for adjustment. A fall protection via several carrying elements serves to protect against falling.

SCREEN FITTING



Clamping profile type 5 Screen fitting with clamping angles art no SKP-V5

- ⓘ Visible screen parts is reduced circumferentially by about 13 mm.

FLOOR ATTACHMENT ⓘ


Required number	8 pcs.
Attachment type	Fixed or shear connector
Size · Length	M12 · 145/160 mm

- ⓘ Please order floor attachment media separately. See p. 168.
- ⓘ Available in open widths of 0.6 to 2.9 m.
- ⓘ Available in installation heights from 1.5 to 3.5 m.
- ⓘ Lifting fields with 175 mm ground clearance by default.
- ⓘ Floor plates centred in the middle by default. For specific floor plate positioning, see p. 187.


Lifting field, unilateral

Product group/build
HFE

① Illustration shows HFE with handle.




DOOR ACCESSORIES



TZ-GR-S

Handle

ATTACHMENT SYSTEMS FOR SAFETY SWITCHES



HP-S®

Retaining plate system

- Door accessories (see p. 170) and attachment systems for safety switches (as of p. 127) must be ordered separately.
- For a combination overview of all matching door accessories and attachment systems, see p. 185.
- ⓘ Please indicate safety switch and actuator types.

The unilateral lifting field is opened and closed manually. It is made of a stable steel structure with concealed weight. The lifting field is prepared for position switches and rails for adjustment. A fall protection via several carrying elements serves to protect against falling.

FLOOR ATTACHMENT ⓘ

Required number	4 pcs.
Attachment type	Fixed or shear connector
Size · Length	M16 · 130/190 mm

- ⓘ Please order floor attachment media separately. See p. 168.
- ⓘ Available in open widths of 0.6 to 2.9 m.
- ⓘ Available in installation heights from 1.5 to 3.5 m.
- ⓘ Optionally available with additional guide profile.
- ⓘ Lifting fields with 175 mm ground clearance by default.
- ⓘ Floor plates centred in the middle by default. For specific floor plate positioning, see p. 187.



Folding field, flap down

Product group/build
KF-U

Illustration shows KF-U with handle.

MACHINE-SIDE

OUTSIDE

DOOR ACCESSORIES

TZ-GR-S
Handle

TZ-RI-F
Latch

ATTACHMENT SYSTEMS FOR SAFETY SWITCHES

HP-F®
Retaining plate system

- Door accessories (see p. 170) and attachment systems for safety switches (as of p. 127) must be ordered separately.
- For a combination overview of all matching door accessories and attachment systems, see p. 185.
- Please indicate safety switch and actuator types.

Folding field, flap top

Product group/build
KF-O

Illustration shows KF-O with handle.

MACHINE-SIDE

OUTSIDE

DOOR ACCESSORIES

TZ-GR-S
Handle

TZ-RI-F
Latch

ATTACHMENT SYSTEMS FOR SAFETY SWITCHES

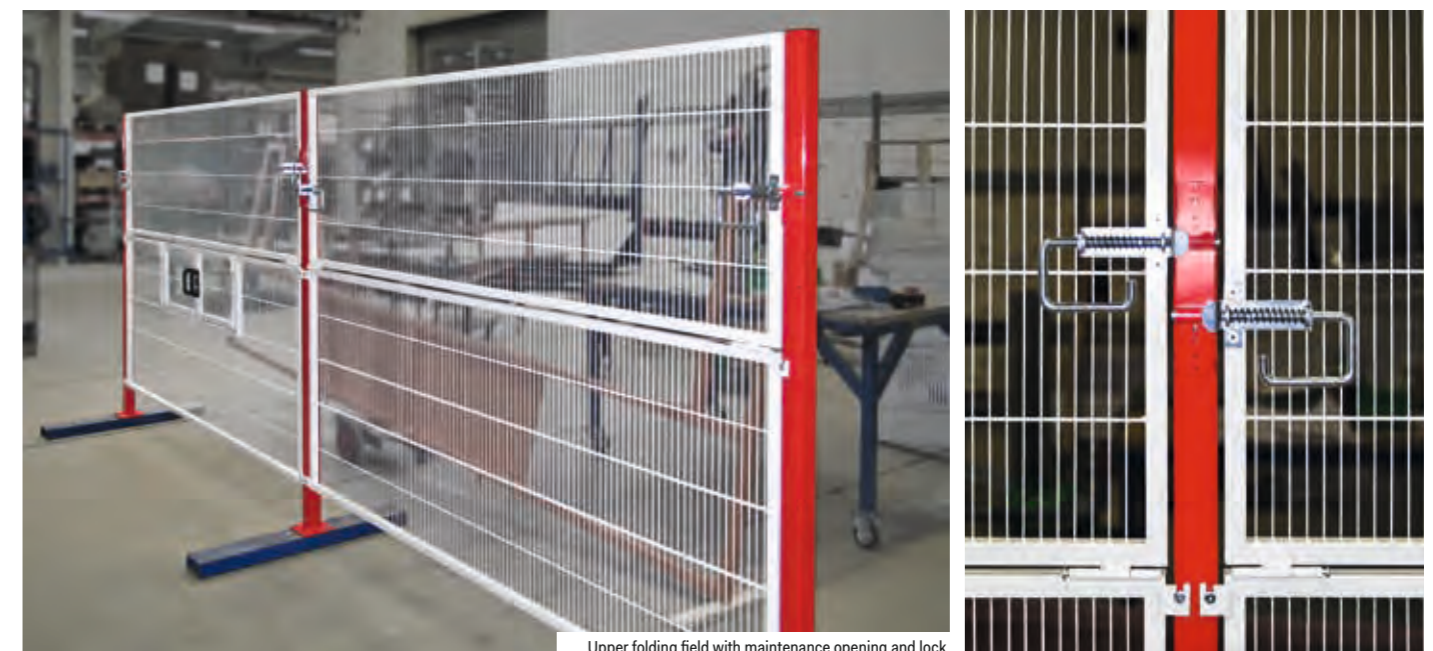
HP-F®
Retaining plate system

- Door accessories (see p. 170) and attachment systems for safety switches (as of p. 127) must be ordered separately.
- For a combination overview of all matching door accessories and attachment systems, see p. 185.
- Please indicate safety switch and actuator types.

The folding fields are built particularly stable and optionally equipped with gas return springs. The posts of the structure are made of a stable steel profile with welded-on four-hole bottom plate and are prepared for corner and passage situations by default.

FLOOR ATTACHMENT KF-U / KF-O	
Required number	8 pcs.
Attachment type	Fixed or shear connector
Size · Length	M10 · 120/130 mm
Weight example KF-U 1600×2000 mm	58.5 kg
Weight example KF-O 2200×3030 mm	58.5 kg

- Please order floor attachment media separately. See p. 168.
- Available in open widths of 0.6 to 2.9 m.
- Available in installation heights from 1.5 to 3.5 m.
- Floor plates centred in the middle by default. For specific floor plate positioning, see p. 187.
- Folding fields by default with 175 mm ground clearance.



Upper folding field with maintenance opening and lock

