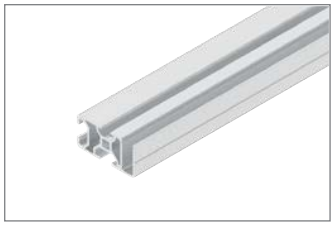
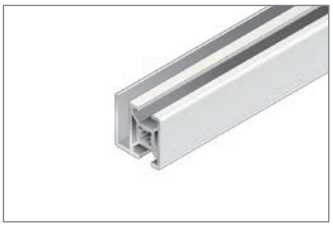
Protective equipment and partition walls EcoSafe



EcoSafe – frame profile 22.5x45 (p. 10-6)



EcoSafe – frame profile 30x30 WG (p. 10-24)



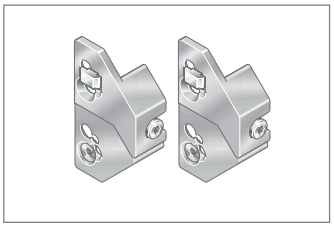
EcoSafe – leg set (p. 10-31)



EcoSafe – door kits (p. 10-32)



EcoSafe – accessories (p. 10-42)



Suspension piece (p. 10-46)

EcoSafe – modular components for safety fences and enclosures



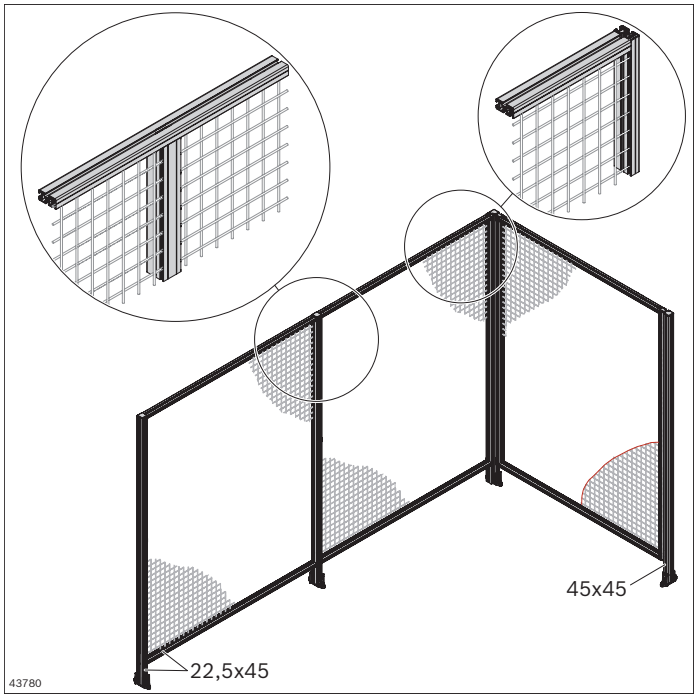
With a successful history spanning over 25 years, the modular EcoSafe construction kit offers a broad range of products for assembling protective equipment.

Plan, erect, and adapt safety fences in an economic manner:
The EcoSafe range of modular components for constructing safety fences and protective enclosures sets standards in terms of stability, flexibility, and cost-effectiveness. Work to install new fences and extend existing ones can now be planned and carried out quickly.

Safety fences can be found in nearly every factory.
They serve as safety barriers for entire production lines or enclosures for individual machines. Regardless of their size, however, one requirement always applies:
The protective equipment must be planned and erected quickly and cost-effectively. Flexible conversion options are also required in variable production environments.
And naturally the standards in force must be complied with at all times.

Standard, fast, cost-effective: The assembly and conversion from prefabricated protective frames is quick and cost-effective. Even individual solutions can be planned and achieved in a very short space of time. The components provide detailed performance data to support compliance with common standards.

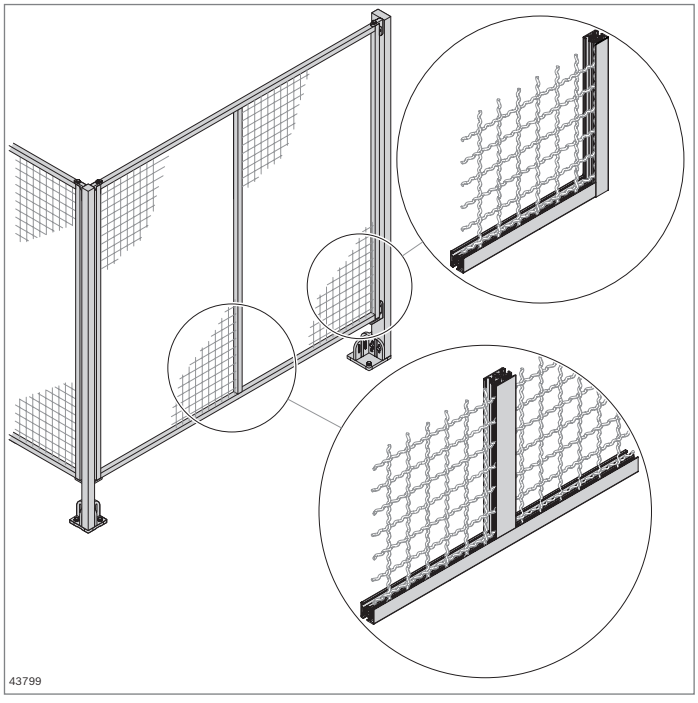
Rexroth offers two variants of safety fences, which are based on different frame profiles. Both variants are available in the same modular dimensions and are therefore compatible, however they differ visually. Some accessories can be used for both variants



EcoSafe frame profile 22.5x45 – the new range

The safety fence is based on the 22.5x45 frame profile, which can be used not only to create the classic suspension panels, but also to create quick-install direct panels.

The standard fillers are spot-weld wire grilles.



EcoSafe frame profile 30x30WG – the established range

This variant is established on the market and is based on the 30x30 WG40 frame profile. In this variant, we only offer suspension panels that are mounted between two leg sets.

The standard fillers are woven wire grilles.

Compliance with standards

Reliable planning of your protective equipment through compliance with all relevant standards and guidelines by the user, such as:

- EN ISO 12100 Safety of machinery
- EN ISI 13857 Safety of machinery - Safety distances to prevent hazard zones being reached by upper and lower limbs
- EN ISO 14120 Safety of machinery – Guards
- Relevant C standards (e.g. DIN EN 619)
- DIN 4103-1 Internal non-loadbearing partitions – Part 1: Requirements and verification
- Machinery Directive 2006/42/EC
- Country-specific regulations

- ▶ **Testing and applying other normative requirements for special applications.**
- ▶ **Compliance with all prescribed safety distances.**

Protective equipment subject to standards must be validated and documented by the designer. The technical data in this catalog support the designer in the design and documentation.

Safety distances according to EN ISO 13857
The safety distances depend on the ground clearance, the height of the protective equipment and the openings in the protective grille. With a mesh size of 40x40 mm, you only need a distance of 200 mm from the danger area (persons aged 14 and over).

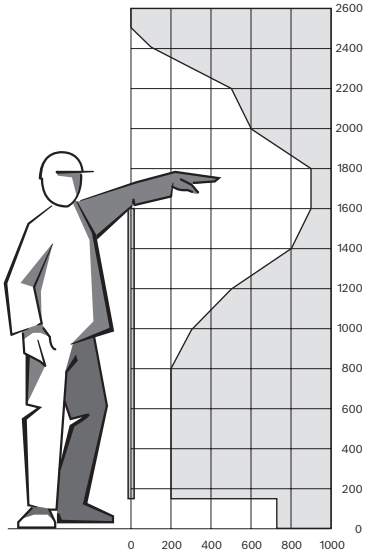
The standard fence height of the EcoSafe protective frame of 2000 mm provides adequate protection in conjunction with a relatively small safety distance. The graphics show a profile with the safety distances for two different system heights (example of only minor injuries and a low probability of occurrence).

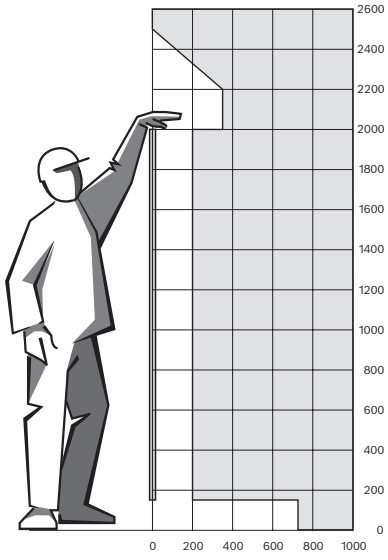
The example shows the safety distances with a ground clearance of 150 mm. This results in a distance of 665 mm from the danger area for the lower limbs.

Attention: According to the standard, slot-shaped openings that are larger than 180 mm allow the whole body to fit through. Depending on customer requirements, the ground clearance must be reduced or additional safety measures must be taken.

Safety distances

Example: Distances according to DIN EN ISO 13857 for the case: Passing over protective designs – Only minor injuries along with a low probability of occurrence.

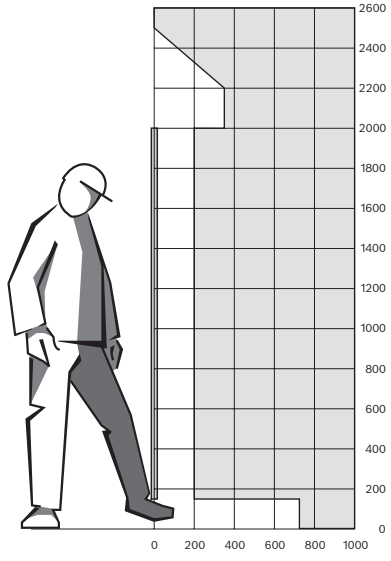


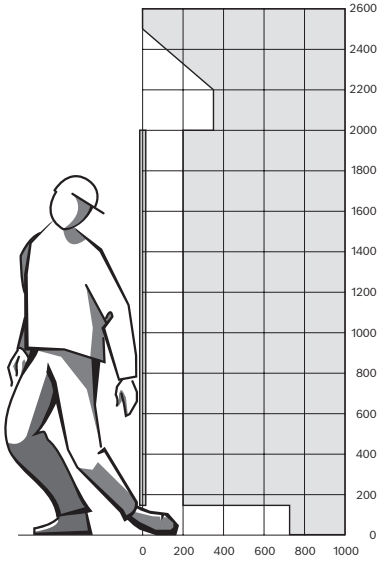


10

Safety distances where there is 150 mm ground clearance

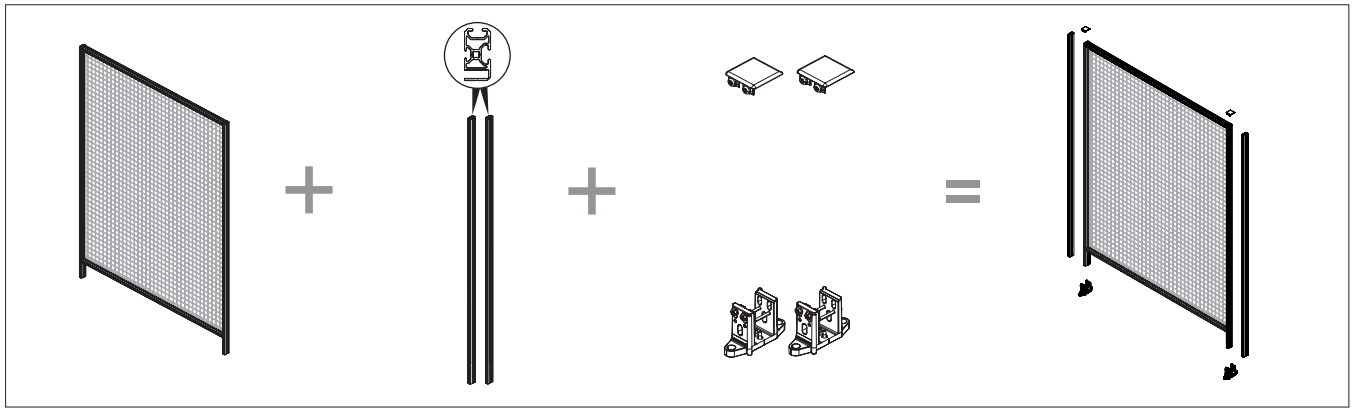
Example: Distances according to DIN EN ISO 13857 to prevent free access of the lower limbs.



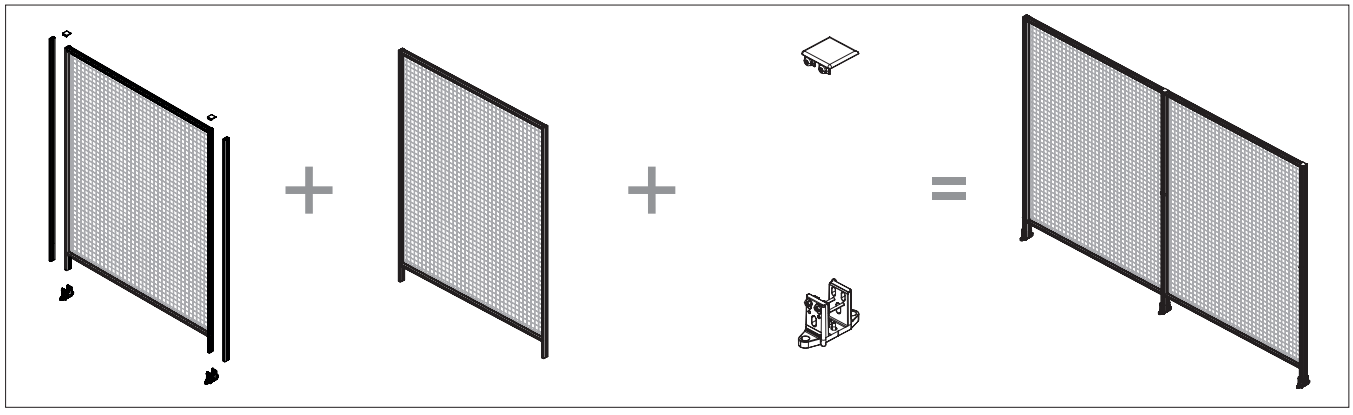


EcoSafe protective fence components – frame profile 22.5x45

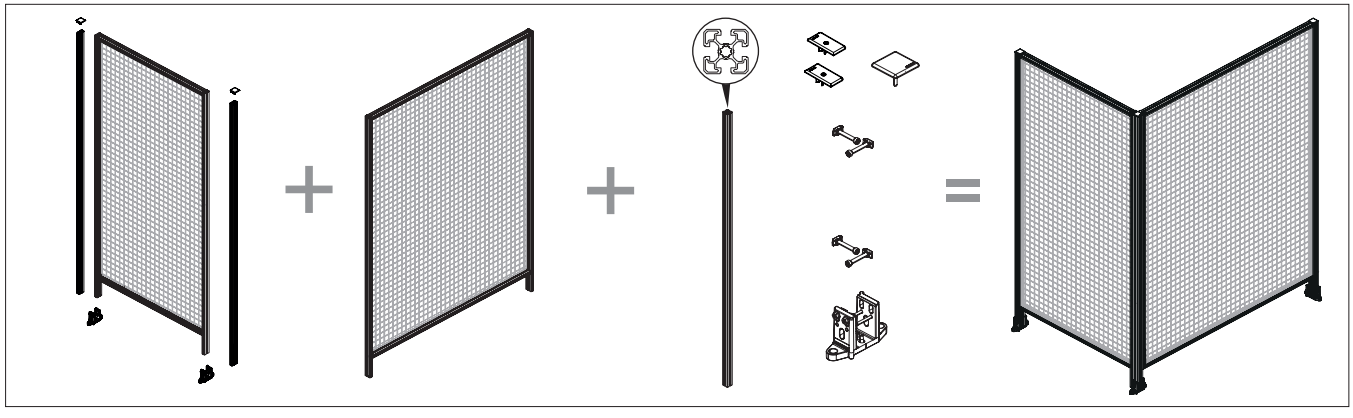
1 x direct panel



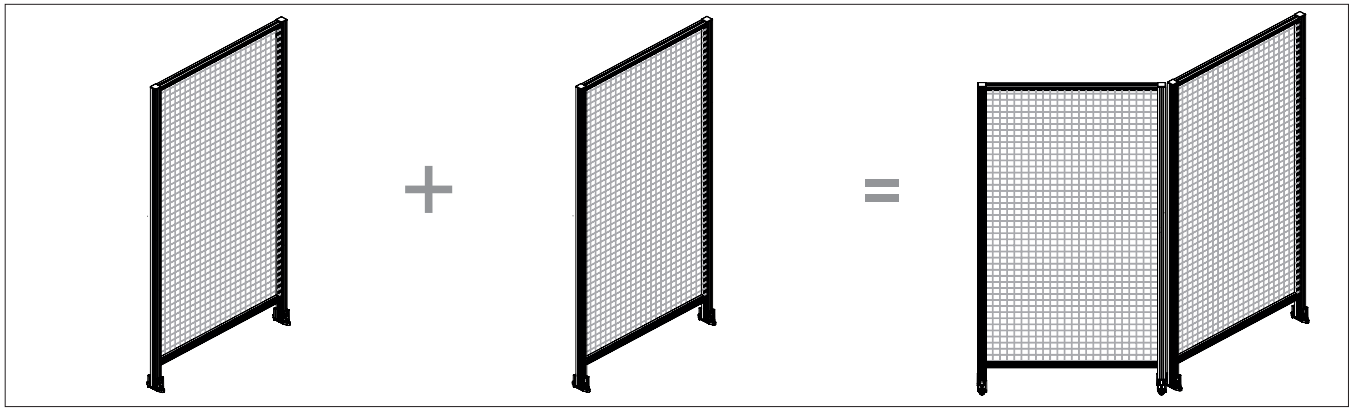
2 x direct panel



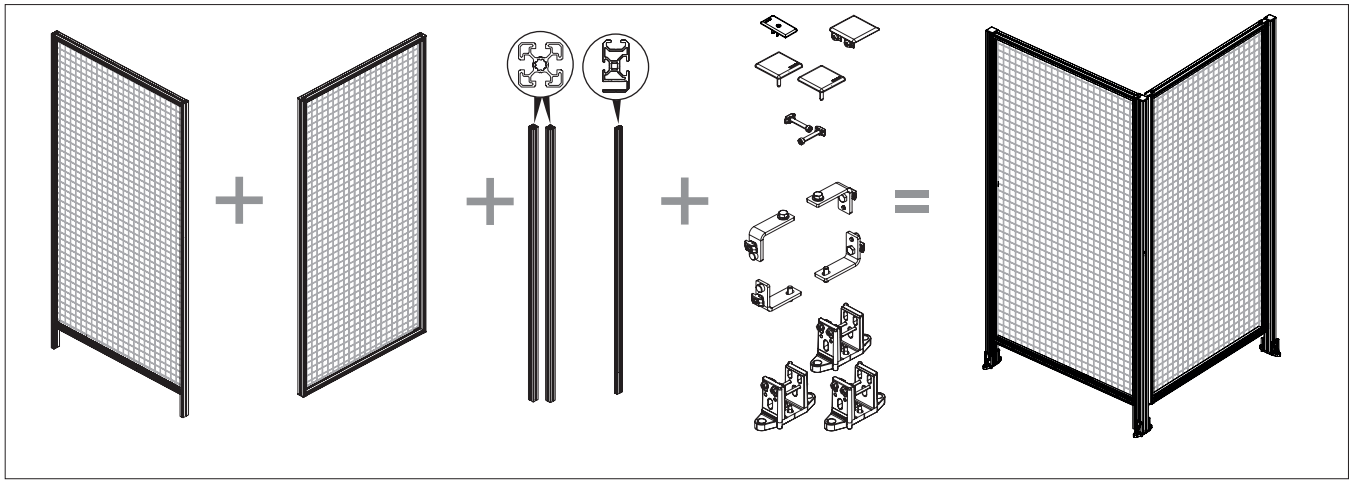
90 degree corner



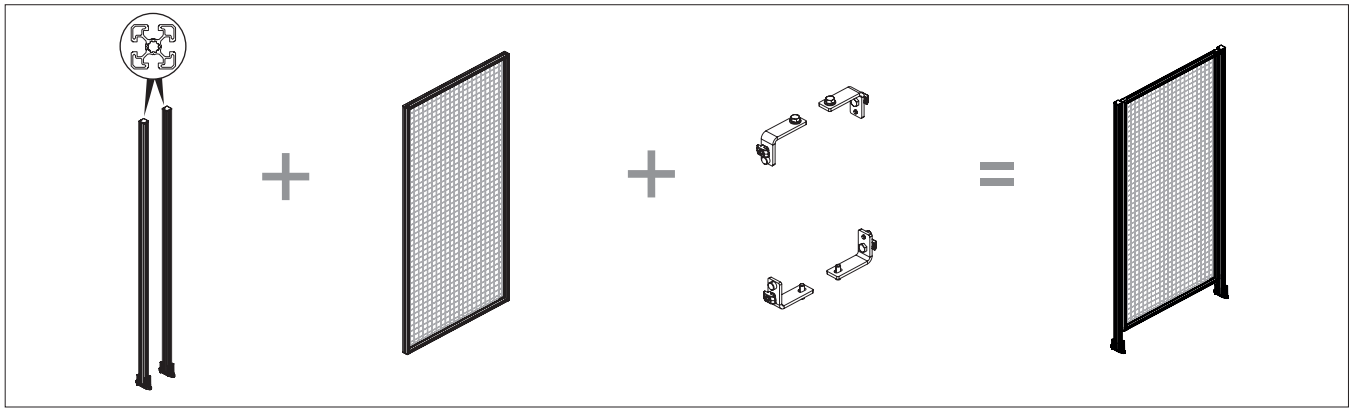
Corner with variable angle



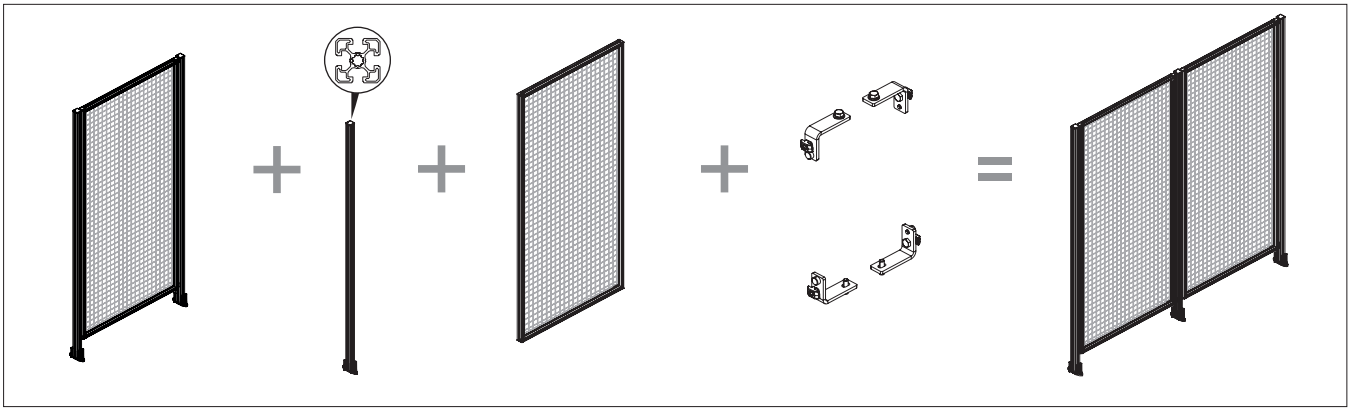
Transition from direct field to suspension field



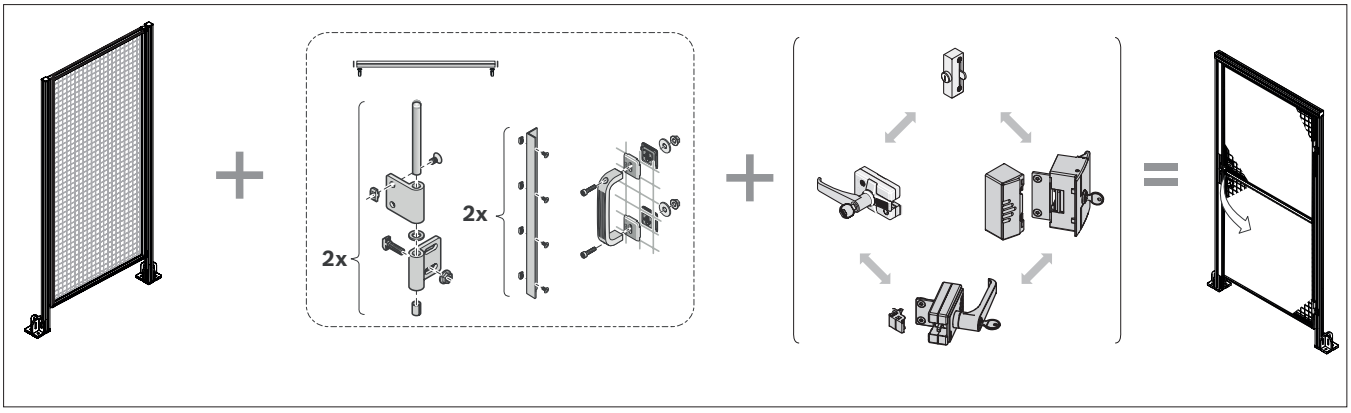
1 x suspension panel



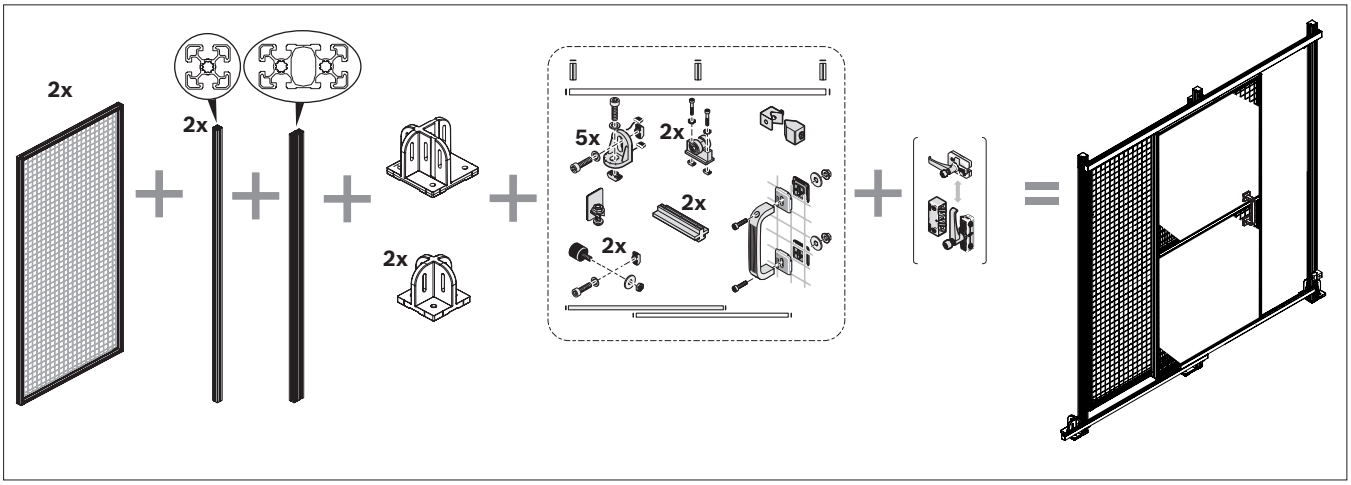
2 x suspension panel



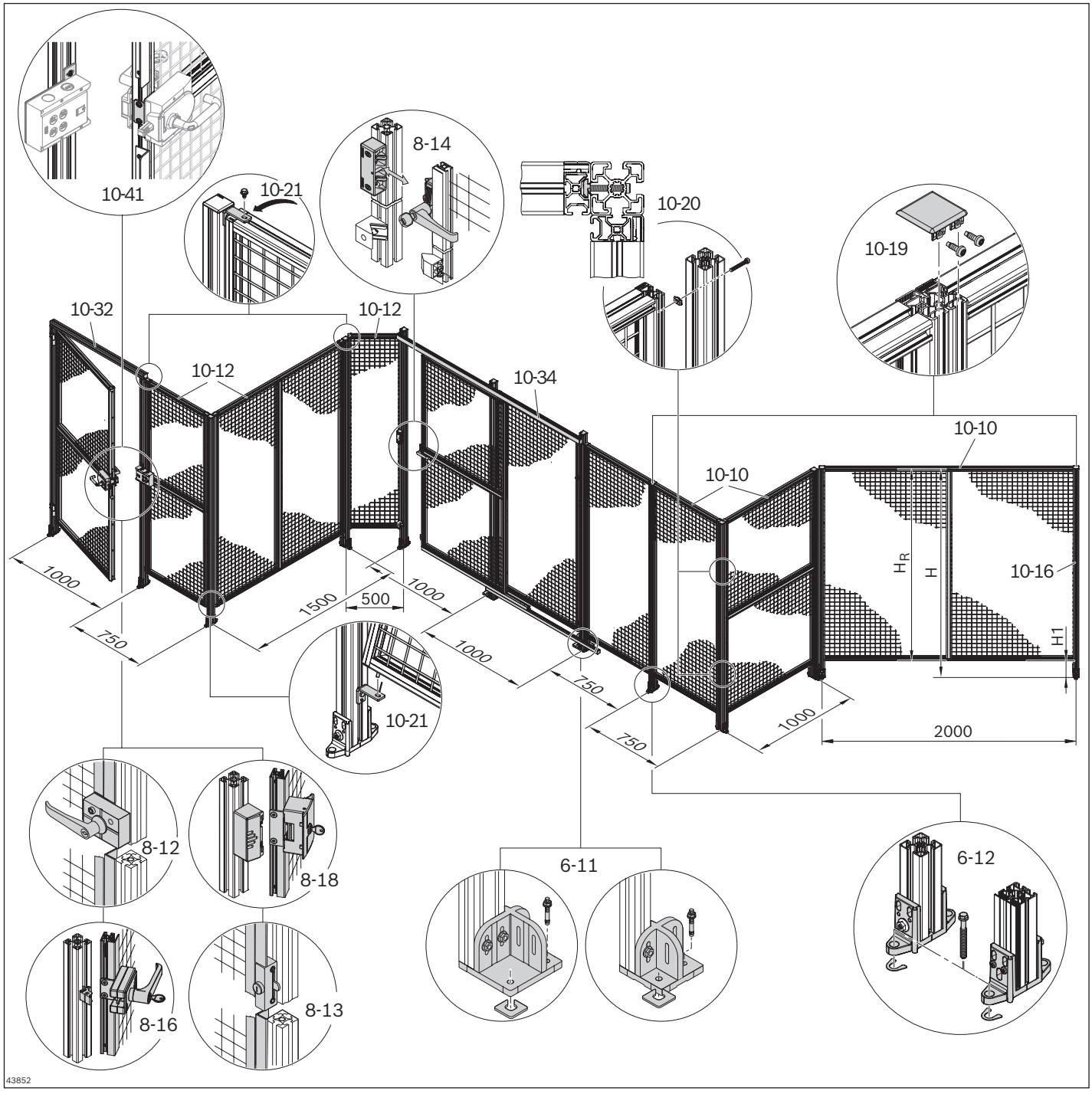
System door

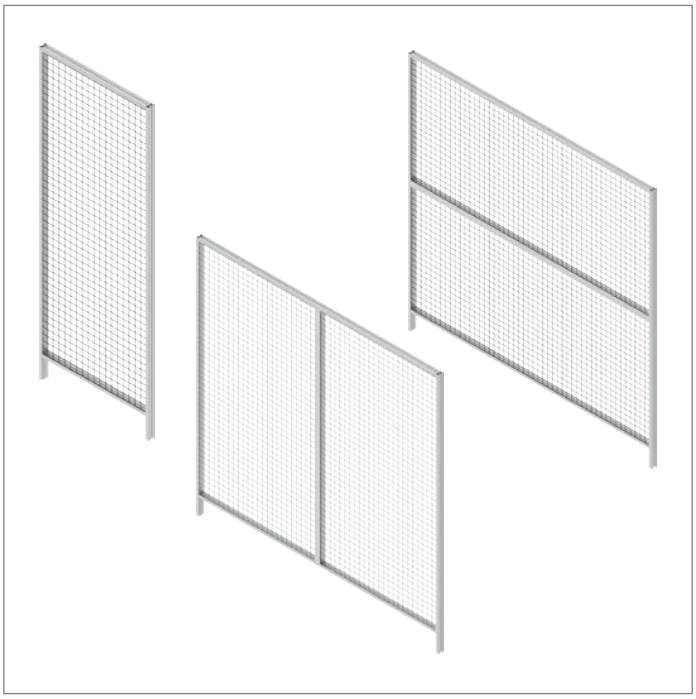


Sliding door with superstructure



EcoSafe protective fence components frame profile 22.5x45



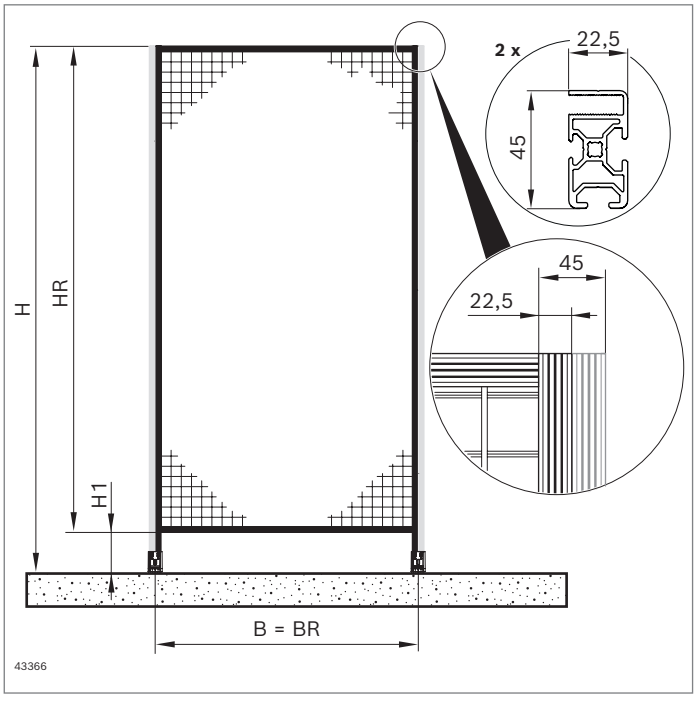


Protective frame – direct panel

- Direct panels can be assembled to form a safety fence without additional leg sets
- Protective frame made of frame profile 22.5 x 45
- With spot-weld wire grille 40 x 40 x 3.8
- Various colors available (galvanized, black, yellow)
- Fully assembled
- Easy installation via the foot 45x45. Single fitter is sufficient
- Horizontally and vertically divided protective frames provide additional stability for large surfaces
- Modular dimension “B” relates to the leg sets 22.5x45 (outer dimension)
- Direct panels are connected to each other via the foot 45x45 (3 842 564 814)

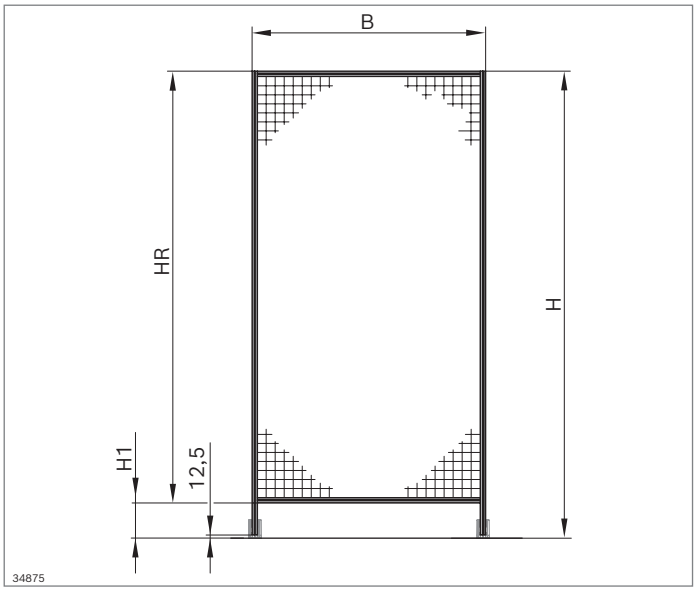
Required accessories:

- Foot 45x45 (3 842 564 814) page 6-12
- Mounting cap 45x45 (3 842 564 817) page 10-19



System dimensions

B = **BR** = Frame width (left outer edge/right outer edge)
HR = Frame height (lower/upper edge of frame)
H1 = Ground clearance (floor/bottom edge of frame)
H = **HR** + **H1** (total height)

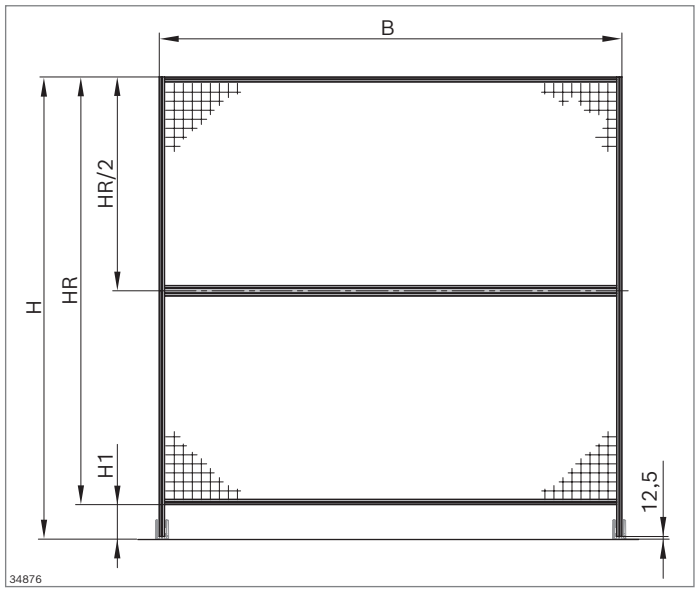


Direct panel	**H** (mm)	**H1** (mm)	**HR*** (mm)	**B** (mm)	**No.**
Galvanized	2000	150	1850	500	**3 842 567 902**
				750	**3 842 567 903**
				1000	**3 842 567 904**
				1500	**3 842 567 905**
Black	2000	150	1850	500	**3 842 567 906**
				750	**3 842 567 907**
				1000	**3 842 567 908**
				1500	**3 842 567 909**
	Hmax = 2500mm	80 ... 2400	100 ... 2420	100 ... 1500	**3 842 994 244 /H1, HR, B, FA**

Material: Frame: Aluminum; anodized
Grille: Steel; hot-zinc-plated

Grille color: FA = 0: hot-zinc-plated
FA = 1: black; RAL 9005 (e.g. for fence)
FA = 2: yellow; RAL 1023 (e.g. for doors)

* HR ≤ 2500–H1

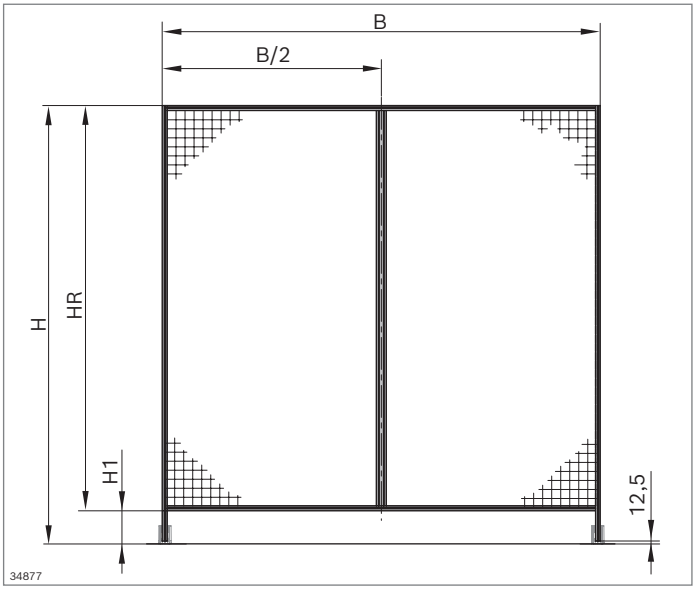


Direct panel, horizontally divided	**H** (mm)	**H1** (mm)	**HR*** (mm)	**B** (mm)	**No.**
Galvanized	2000	150	1850	2000	**3 842 567 910**
Black	2000	150	1850	2000	**3 842 567 911**
	Hmax = 2500mm	80 ... 2300	200 ... 2420	100 ... 2500	**3 842 994 245 /H1, HR, B, FA**

Material: Frame: Aluminum; anodized
Grille: Steel; hot-zinc-plated

Grille color: FA = 0: hot-zinc-plated
FA = 1: black; RAL 9005 (e.g. for fence)
FA = 2: yellow; RAL 1023 (e.g. for doors)

* HR ≤ 2500–H1

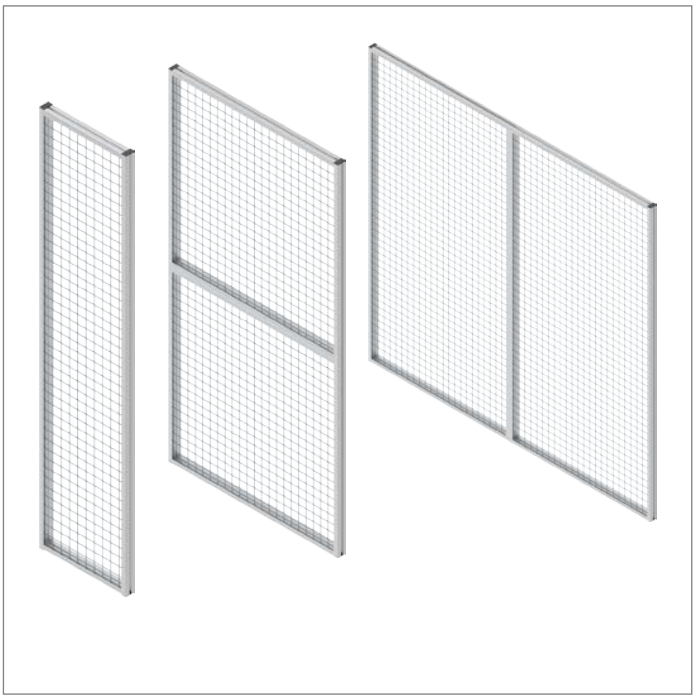


Direct panel, vertically divided	**H** (mm)	**H1** (mm)	**HR*** (mm)	**B** (mm)	**No.**
	Hmax = 2500mm	80 ... 2400	100 ... 2420	200 ... 2500	**3 842 994 246 / H1, HR, B, FA**

Material: Frame: Aluminum; anodized
Grille: Steel; hot-zinc-plated

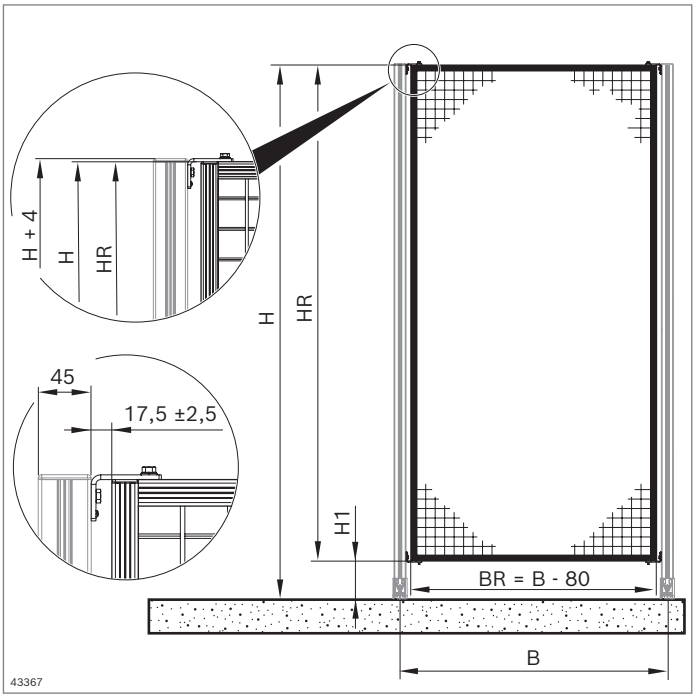
Grille color: FA = 0: hot-zinc-plated
FA = 1: black; RAL 9005 (e.g. for fence)
FA = 2: yellow; RAL 1023 (e.g. for doors)

* HR ≤ 2500–H1



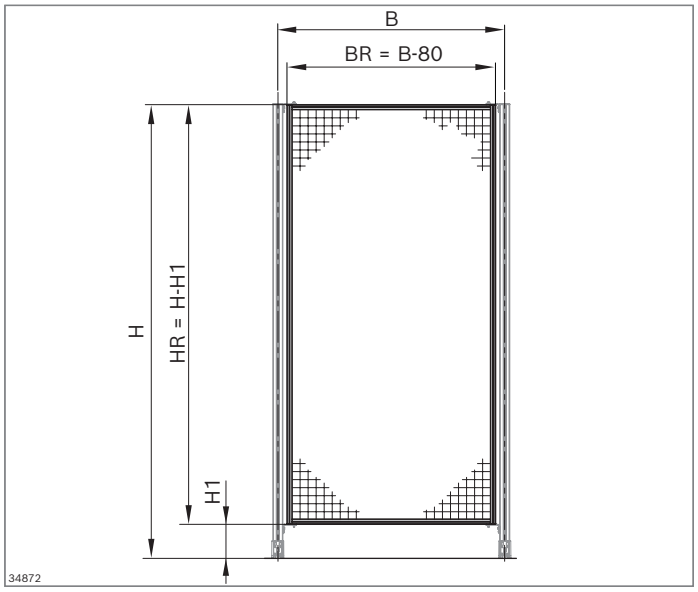
Protective frame – suspension panel

- Suspension panels are mounted between 2 leg sets using suspension brackets (p. 10-31)
- Protective frame made of frame profile 22.5 x 45
- With spot-weld wire grille 40 x 40 x 3.8
- Various colors available (galvanized, black, yellow)
- Fully assembled
- Easy assembly. Single fitter is sufficient
- Horizontally and vertically divided protective frames provide additional stability for large surfaces
- Suitable kits enable the construction of doors (system doors, sliding doors, double doors)
- Modular dimension “B” relates to the leg sets 45x45 (center of leg set - center of leg set)

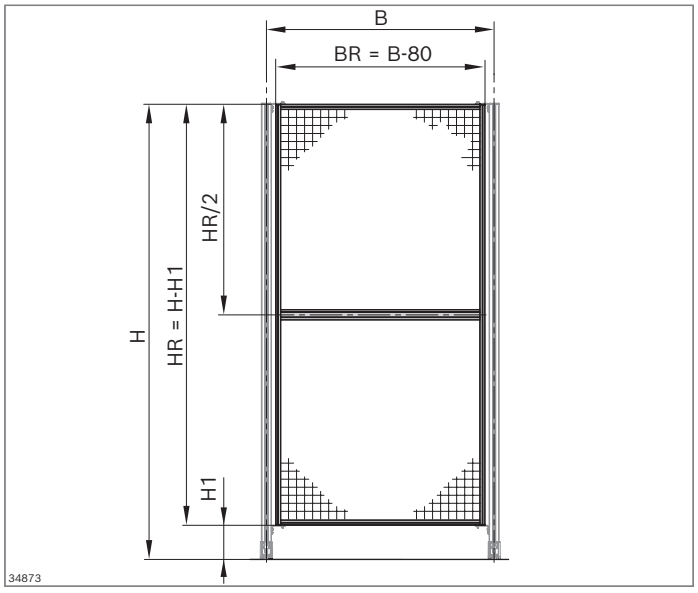


System dimensions

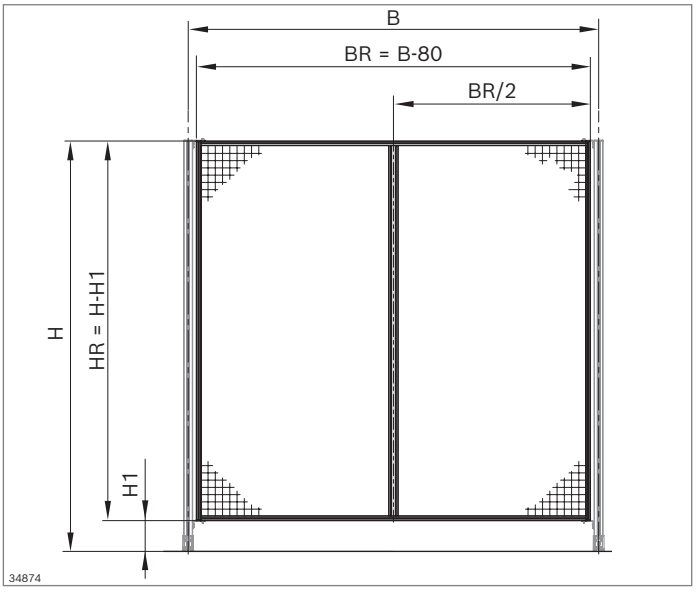
B = center of leg set/center of leg set
BR = frame width (left outer edge/right outer edge)
HR = frame height (lower/upper edge of frame)
H1 = ground clearance (floor/bottom edge of frame)
H = (total height)



Suspension panel	**HR** (mm)	**B** (mm) **No.**
Galvanized	1850	500 **3 842 567 945**
		750 **3 842 567 946**
		1000 **3 842 567 947**
		1500 **3 842 567 948**
Black	1850	500 **3 842 567 949**
		750 **3 842 567 950**
		1000 **3 842 567 951**
		1500 **3 842 567 952**
	100 ... 2350	180 ... 1500 **3 842 994 247 /HR, B, FA**
Material:	Frame: Aluminum; anodized Grille: Steel; hot-zinc-plated	
Grille color:	FA = 0: hot-zinc-plated FA = 1: black; RAL 9005 (e.g. for fence) FA = 2: yellow; RAL 1023 (e.g. for doors)	



Suspension panel, horizontally divided	**HR** (mm)	**B** (mm) **No.**
Galvanized	1850	1000 **3 842 567 953**
Black	1850	1000 **3 842 567 954**
	200 ... 2350	180 ... 2500 **3 842 994 248 /HR, B, FA**
Material:	Frame: Aluminum; anodized Grille: Steel; hot-zinc-plated	
Grille color:	FA = 0: hot-zinc-plated FA = 1: black; RAL 9005 (e.g. for fence) FA = 2: yellow; RAL 1023 (e.g. for doors)	



Suspension panel, vertically divided	**HR** (mm)	**B** (mm) **No.**
Galvanized	1850	2000 **3 842 567 955**
Black	1850	2000 **3 842 567 956**
	100 ... 2350	280 ... 2500 **3 842 994 249 /HR, B, FA**
Material:	Frame: Aluminum; anodized Grille: Steel; hot-zinc-plated	
Grille color:	FA = 0: hot-zinc-plated FA = 1: black; RAL 9005 (e.g. for fence) FA = 2: yellow; RAL 1023 (e.g. for doors)	



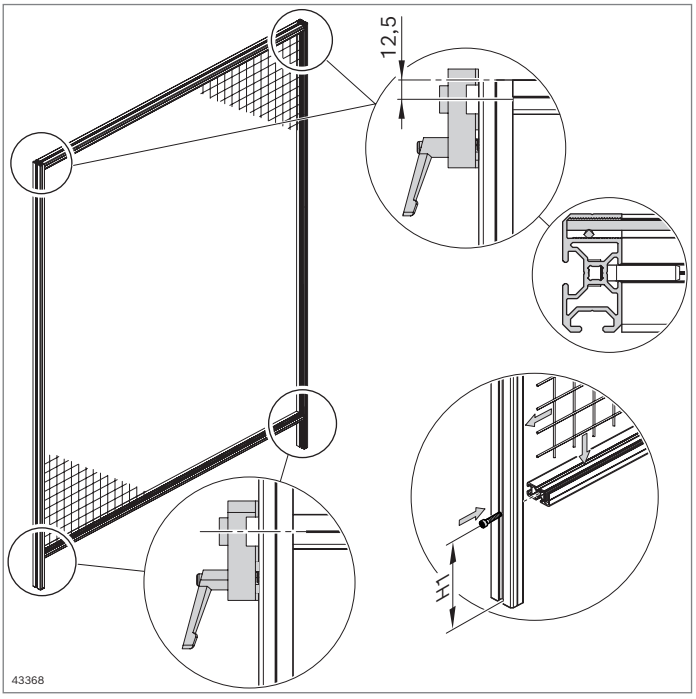
Frame profiles

- For the low-cost assembly of protective frames with spot-weld wire grille 40 x 40 x 3.8 (optional woven wire grille WG40 or panel elements)
- Fastening of welded and woven wire grilles: Directly in the special profile slot
- Fastening of panel elements: In the special profile slot using clamping profiles (accessories)

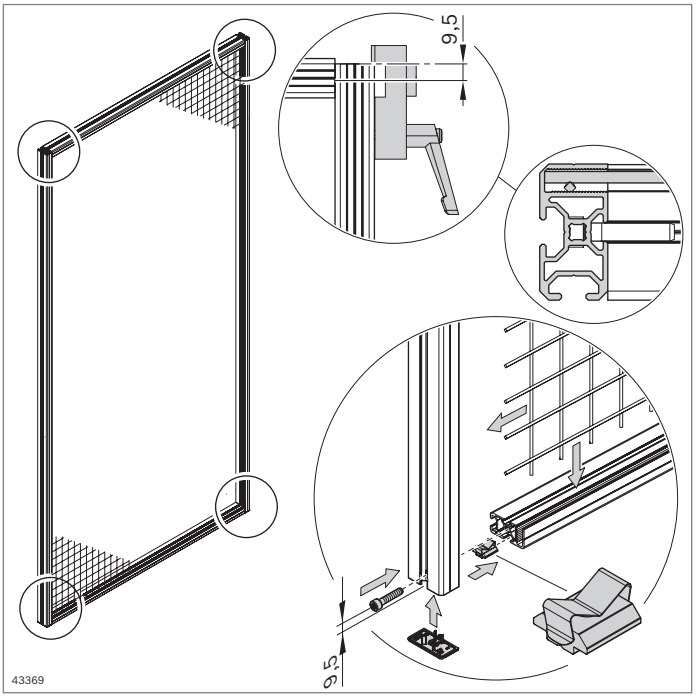
Required accessories:

- Connection screw (p. 10-17)
- Clamping piece PG 8x10x90 (p. 10-17)
- Clamping profile (p. 10-14)
- For suspension panels: Sliding block and spring (p. 10-17)

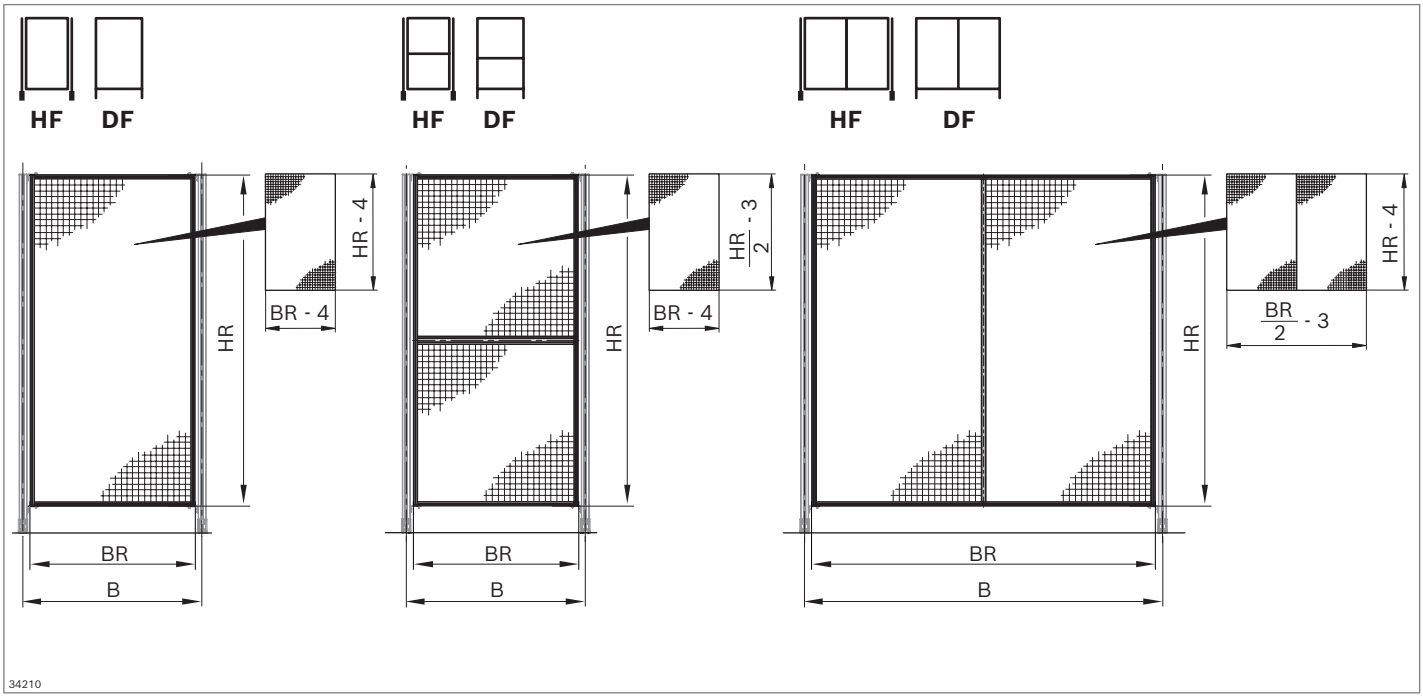
Direct panel (DF) installation



Suspension panel (HF) installation



Cut-to size spot-weld wire grille 40 x 40 x 3.8 and woven wire grille 40 x 40 x 4

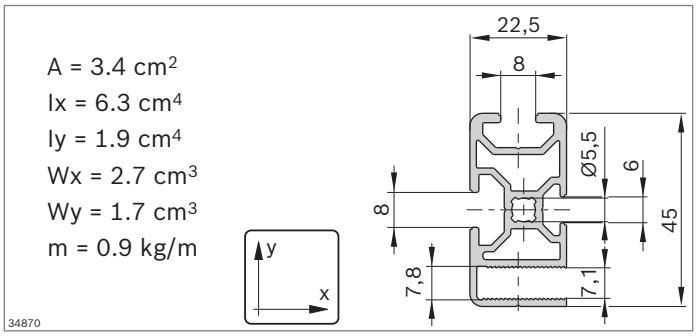


System dimensions

B = center of leg set/center of leg set

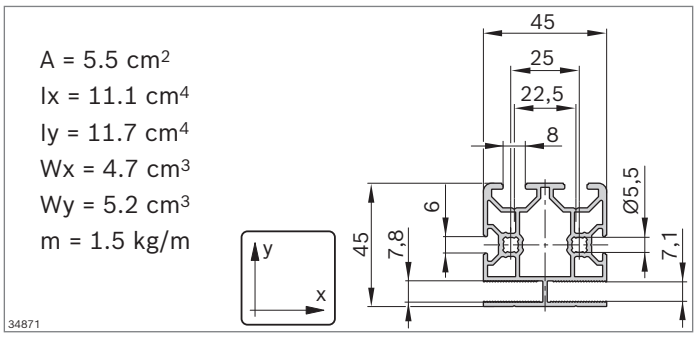
BR = frame width (left outer edge/right outer edge)

HR = frame height (lower/upper edge of frame)



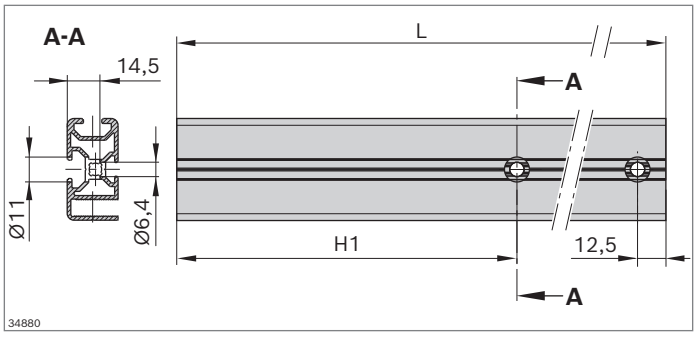
▶ For frame construction of protective frames

Frame profile 22.5x45			L (mm)	No.
	1 pc		100 ... 6070	**3 842 994 232 / L**
	1 pc		6070	**3 842 564 812**
	24 pcs		6070	**3 842 564 813**
Material:	Aluminum; anodized			



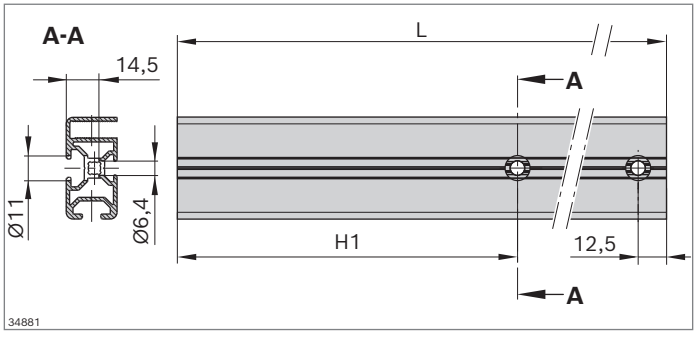
▶ For central stiffening of divided protective frames

Frame profile 45x45			L (mm)	No.
	1 pc		100 ... 6070	**3 842 994 236 / L**
	1 pc		6070	**3 842 564 821**
	20 pcs		6070	**3 842 564 824**
Material:	Aluminum; anodized			



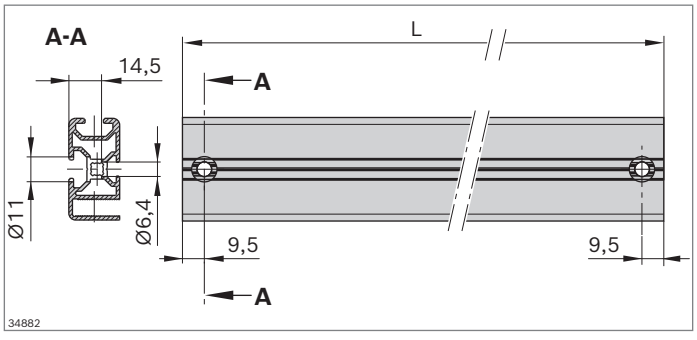
▶ For direct panel (DF) vertical frame profile left

Frame profile 22.5x45		H1 (mm)	L (mm)	No.
DF	1 pc	9.5 ... (L-50)	100 ... 5400	**3 842 994 233 / L, H1**
Material:	Aluminum; anodized			



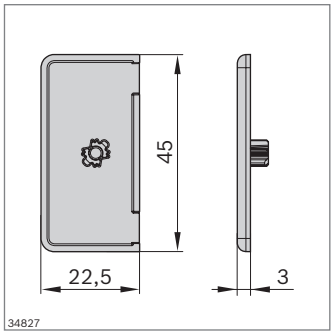
▶ For direct panel (DF) vertical frame profile right

Frame profile 22.5x45		H1 (mm)	L (mm)	No.
DF	1 pc	9.5 ... (L-50)	100 ... 5400	**3 842 994 234 / L, H1**
Material:	Aluminum; anodized			



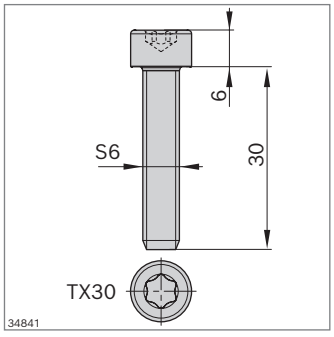
▶ For suspension panel (HF) vertical frame profiles left/right

Frame profile 22.5x45		L (mm)	No.
HF	1 pc	100 ... 5400	**3 842 994 235 / L**
Material:	Aluminum; anodized		



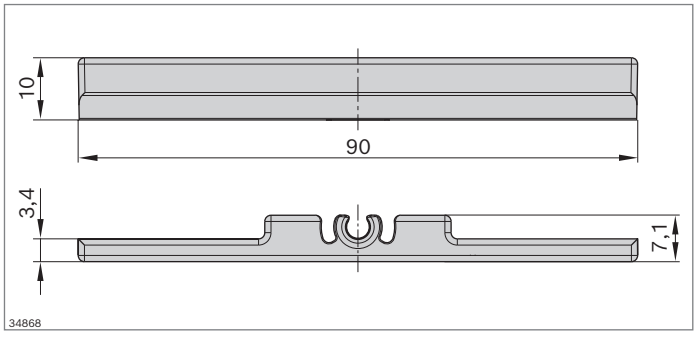
- Cover cap as a design element and to prevent injuries

Cover cap	Color	ESD		No.
22.5x45	Signal gray		20	**3 842 572 021**
	Black		20	**3 842 572 022**
Material:	PP			



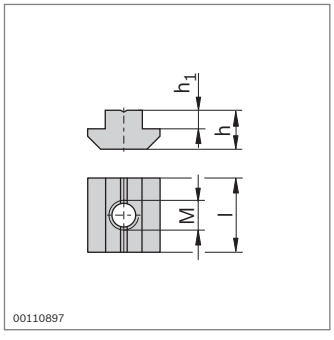
- Screw for corner connection of protective frame (DF + HF)
- Connection element for assembly of protective frame with frame profiles 22.5x45 or 45x45
- Required profile finishing: Step drilling M6
- Accessories: Drilling template (3 842 567 976)

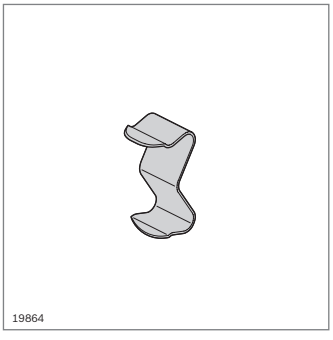
Connection screw	ESD		No.
		100	**3 842 567 978**
Material:	Steel; zinc-plated		



- Prevents clearance of the welding grid 40x40x3.8 in the special groove of the frame profile 22.5x45 and 45x45, if wire can only be inserted in one layer

Clamping piece PG		No.
	100	**3 842 571 958**
Material:	PP; signal gray	

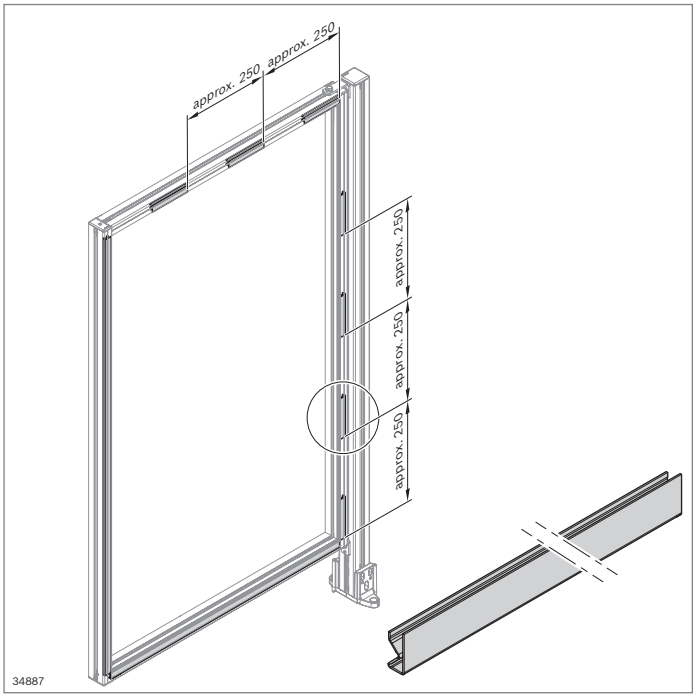




- Used to fasten the suspension brackets to the suspension panel

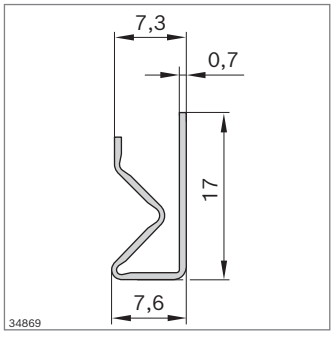
Sliding block	M	h (mm)	h_1 (mm)	l (mm)		No.
	8	6.0	2.0	16	100	**3 842 514 930**
Material:		Steel; zinc-plated				

Spring	Slot		No.
	8	100	**3 842 571 958**
Material:	Spring steel; stainless		



Clamping profile

- For zero-clearance installation of panel elements in the special slot of frame profiles 22.5x45 and 45x45
- For panel elements with a thickness of 2 mm to 5 mm
- Enclosure over the entire outer edge or partially possible

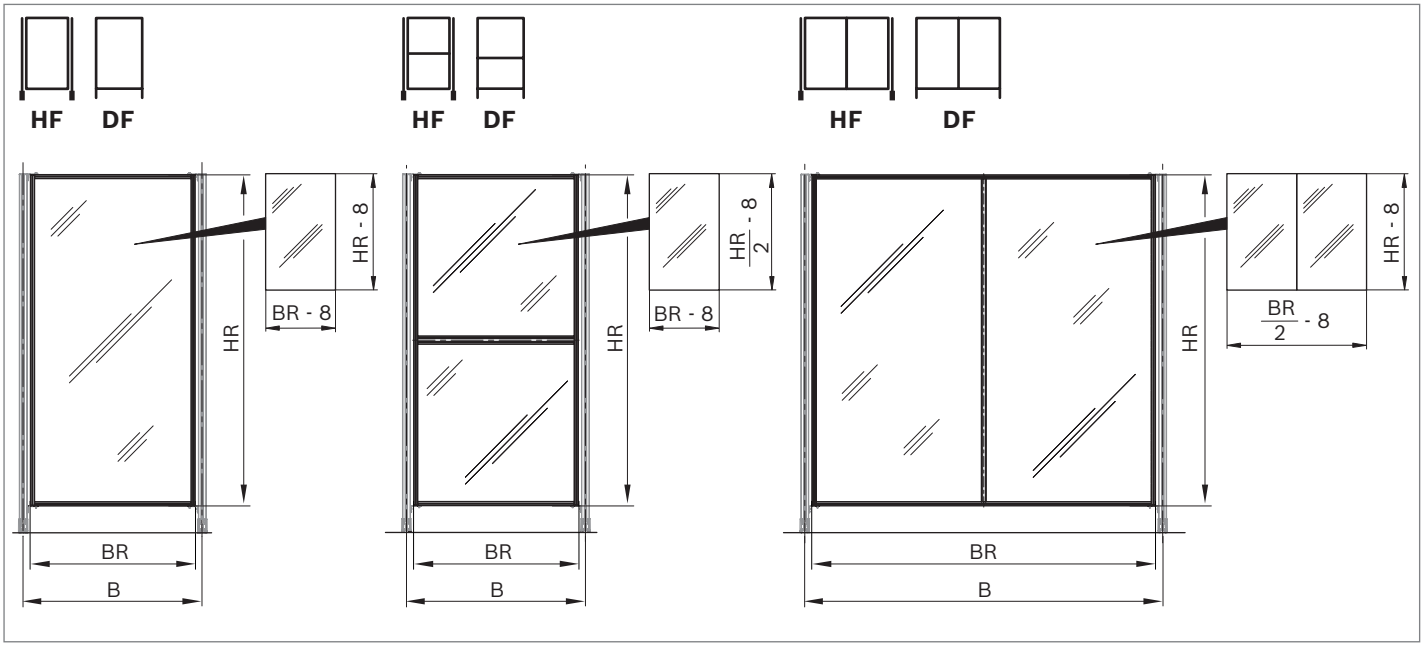


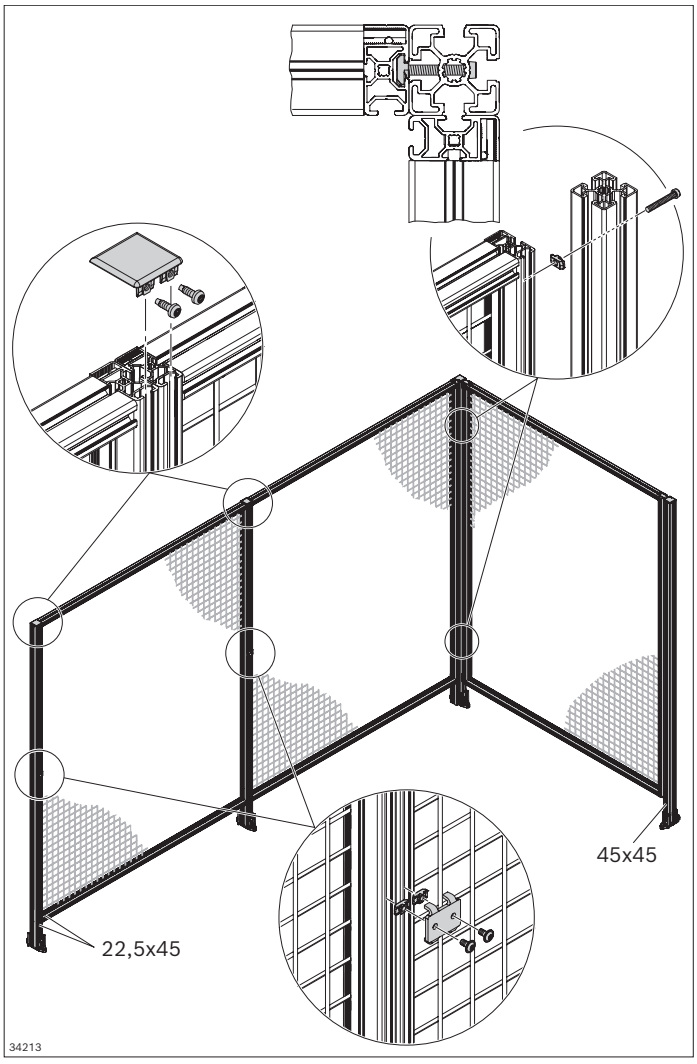
Clamping profile PG		L (mm)	No.
	10	2000	**3 842 567 975**
Material:	PP; signal gray		

System dimensions

B = center of leg set/center of leg set
BR = frame width (left outer edge/right outer edge)
HR = frame height (lower/upper edge of frame)

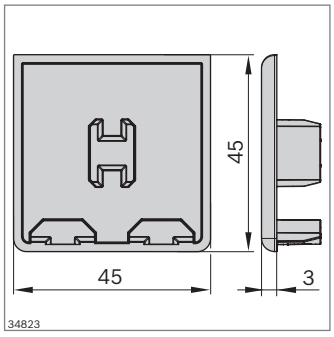
Cut-to-size panel elements

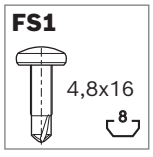




Mounting cap, connection kit, mounting kit

- Mounting cap
- Connection kit
- Mounting kit

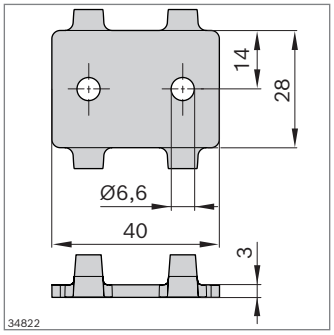


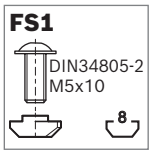


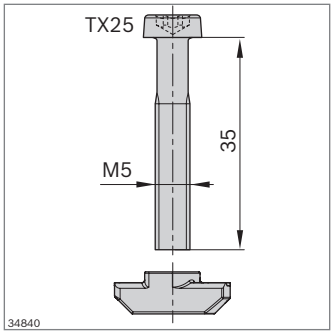
- For connecting two direct panels or frame profiles 22.5x45
- Also serves as cover cap
- Mounting via self-tapping screws

Mounting cap 45x45 SET	ESD		No.	FS
		10	**3 842 564 817**	2xFS1

Material:	Cap: Diecast zinc; fastening material: Steel, galvanized
Scope of delivery:	Incl. fastening material (FS)







- For direct panels
- Optional element to join parallel frame profiles or direct panels
- For frame profile 22.5x45

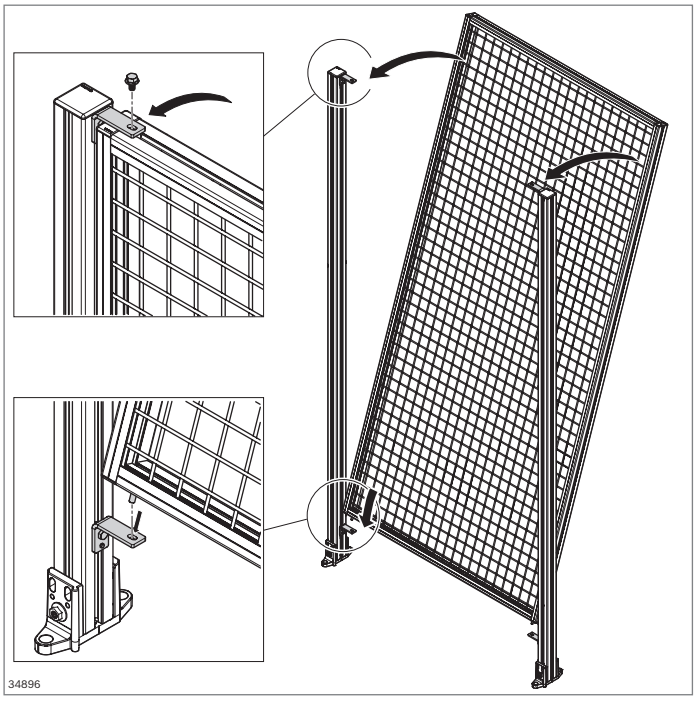
Connection kit DF	Slot	ESD		No.	FS
	8		10	**3 842 564 823**	2xFS1
Material:	Bracket: Aluminum; anodized; Fastening material: Steel, galvanized				
Scope of delivery:	Incl. fastening material (FS)				

- For parallel connection of a 22.5x45 frame profile to a leg set with 10 mm profile slot
- Transition of EcoSafe direct panel to leg set
- Solution for corner with 90 degrees or transition to EcoSafe system doors
- Profile finishing of the leg set required: Stepped drilling Ø5.5 / Ø9.5

Accessories, recommended:

- Drilling template (3 842 567 969); step drill (3 842 567 968)

10 DF mounting kit	Slot	ESD		No.
	8		20	**3 842 571 959**
Material:	Steel, galvanized			

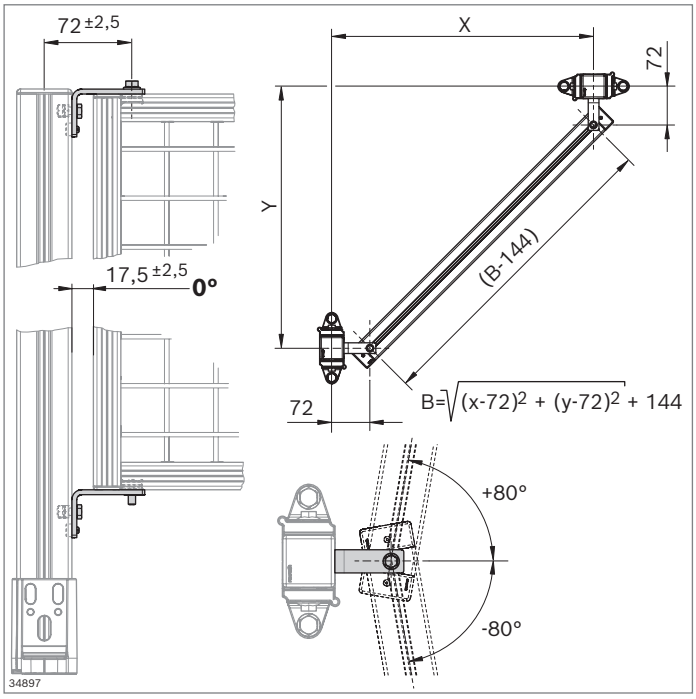


Suspension bracket set, Safety Strip loss prevention



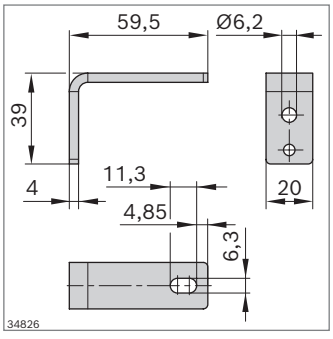
Suspension bracket set

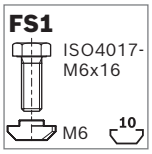
- Set consists of 4 brackets for installation of one suspension field (incl. fastening material)
- For easy installation of the suspension panel at the leg set at various angles or straight
- Suspension bracket with centering lugs as anti-torsion element
- For protective frames made of frame profile 22.5 x 45
- Meets the requirements of the Machinery Directive 2006/42/EC via optional Safety Strip for maintenance fields



Suspension bracket HF SET	ESD		No.	FS
		1	**3 842 567 942**	4xFS1 2xFS2 2xFS3 4xFS4

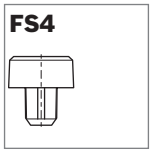
Material:	Bracket Steel; zinc-plated; fastening material: Steel, galvanized Centering bolts: PA6
Scope of delivery:	Incl. fastening material (FS)

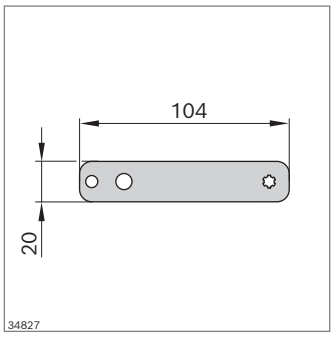


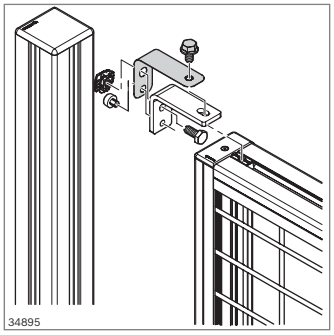










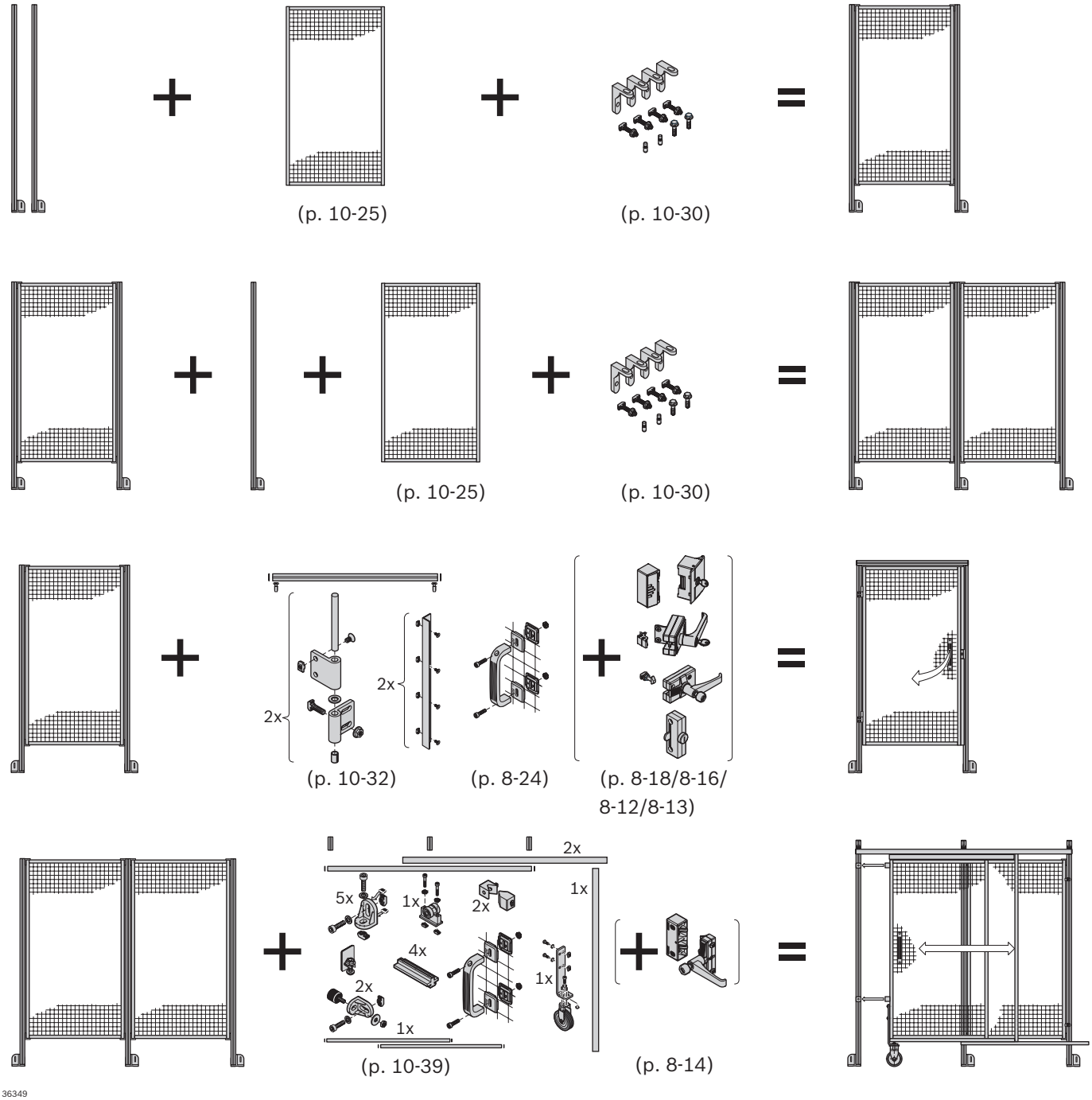


Safety Strip loss prevention

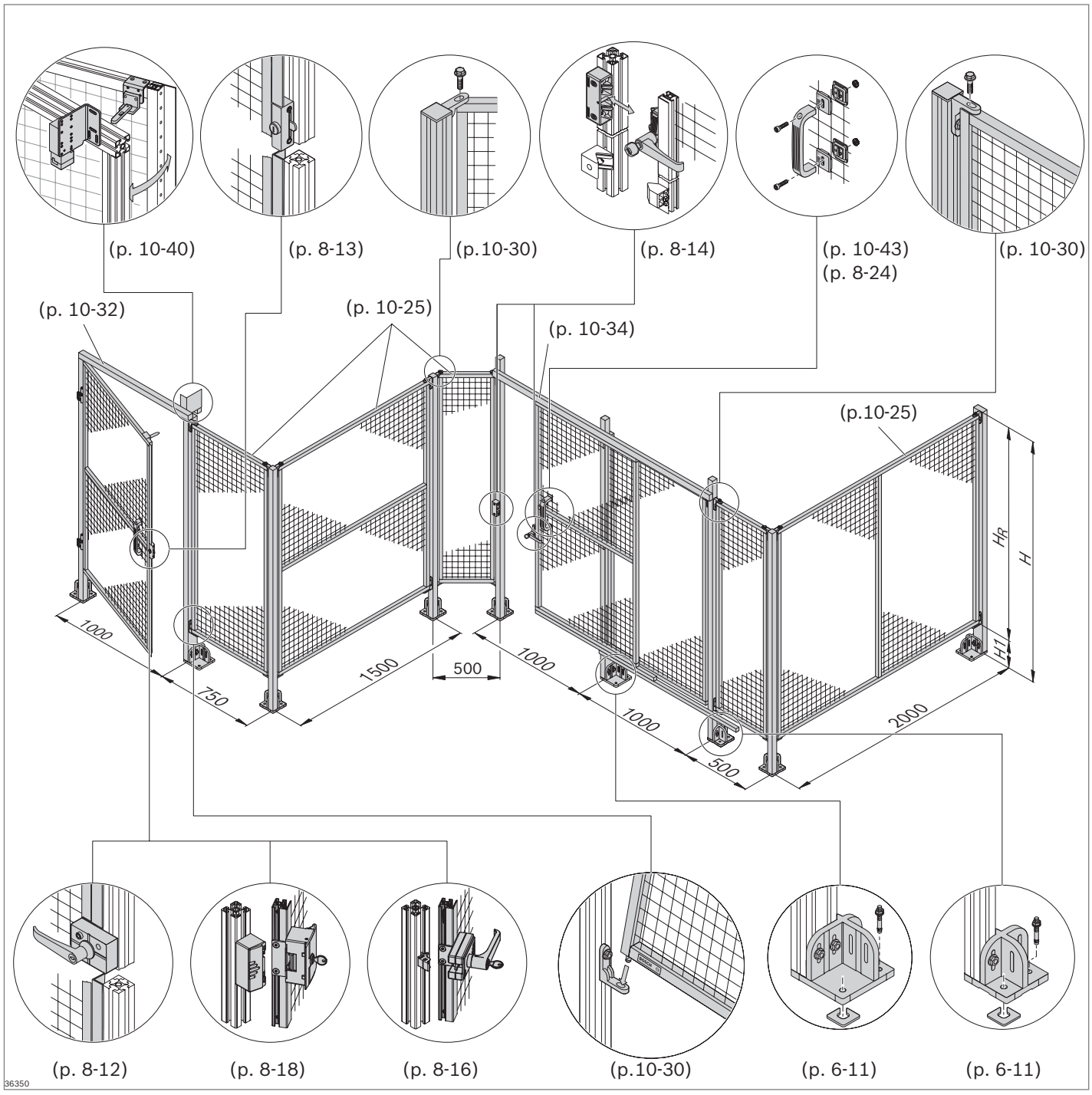
- Loss prevention for the fastening screw of EcoSafe suspension fields
- Easy assembly; can be retrofitted
- Meets the requirements of Machinery Directive 2006/42/EC: Screw remains connected to the suspension bracket after loosening

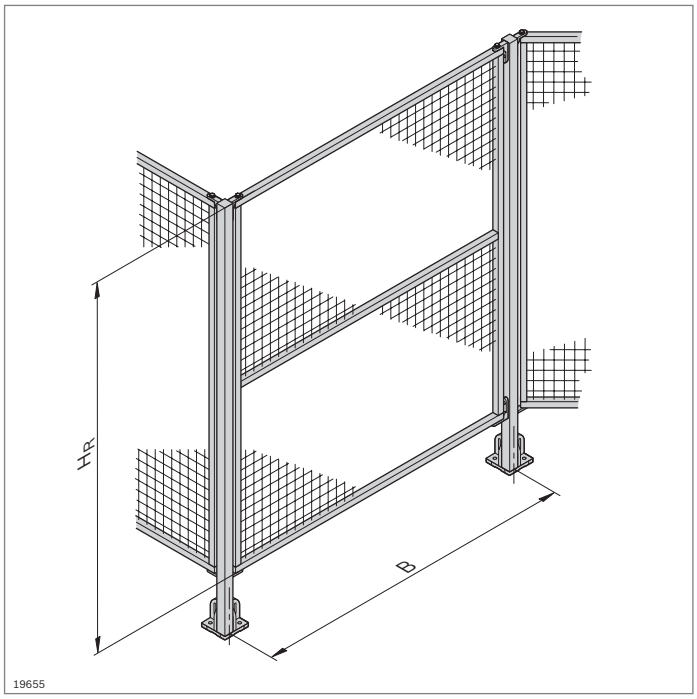
Loss prevention Safety Strip HF		No.
	100	**3 842 567 935**
Material:	PC; translucent	

EcoSafe protective fence components - frame profile 30x30WG



EcoSafe protective fence components - frame profile 30x30WG

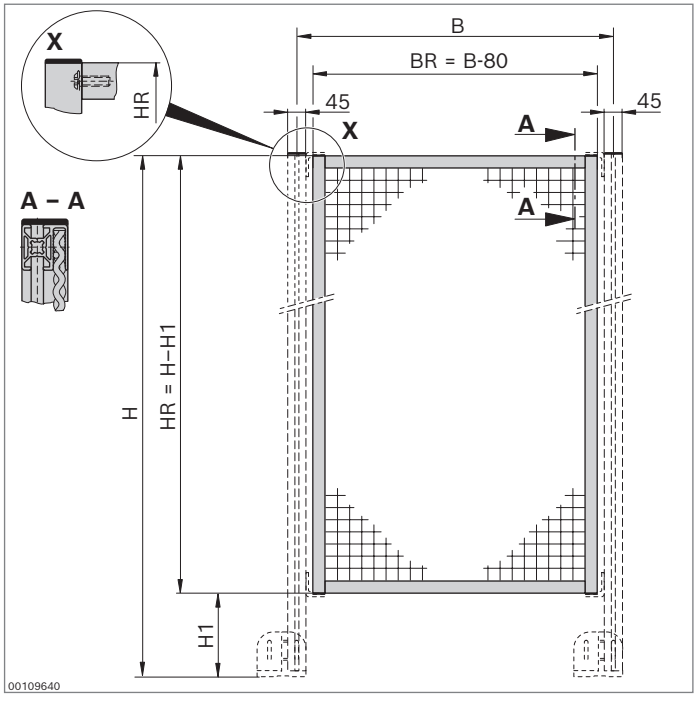




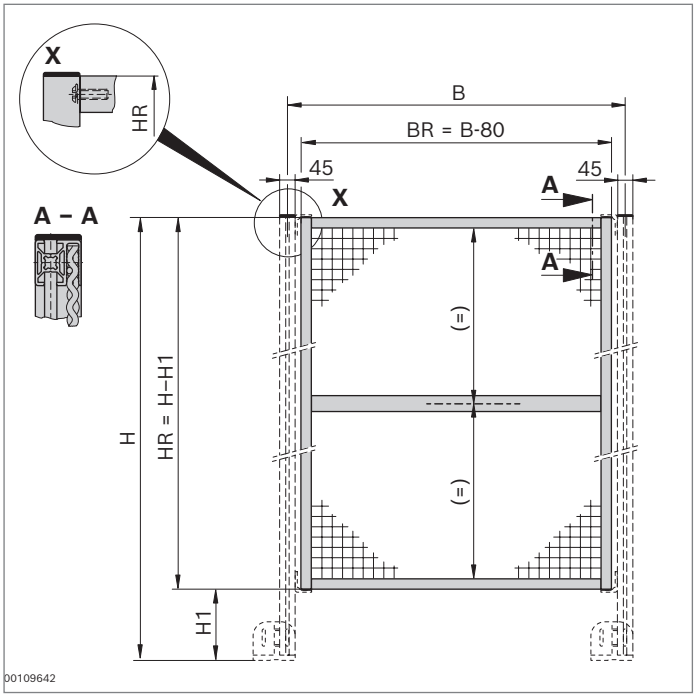
Protective frame suspension panel

- Protective frame made of frame profile 30x30 WG40 (p. 10-27) with woven wire grille 40x40x4
- Suitable kits enable the construction of doors (system doors, sliding doors, double doors)
- Fully assembled on delivery
- Simple mounting on the supports using the suspension brackets. Single fitter is sufficient
- Standard widths or customized dimensions
- Horizontally or vertically divided protective frames provide additional stability for large surfaces
- Color-coated woven wire grilles improve visual contrast in the protected area and facilitate recognition of access routes and emergency exit routes
- Modular dimension “B” relates to 45x45 supports

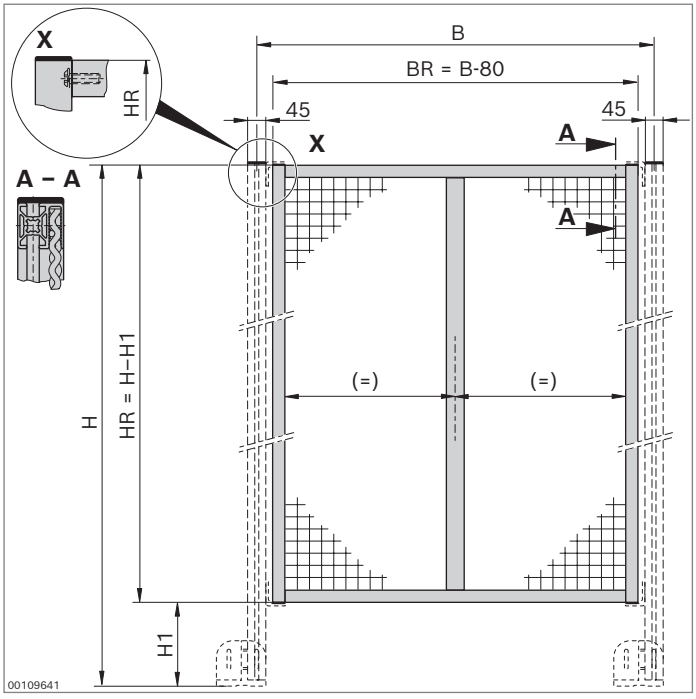
Matching leg sets (p. 10-31)



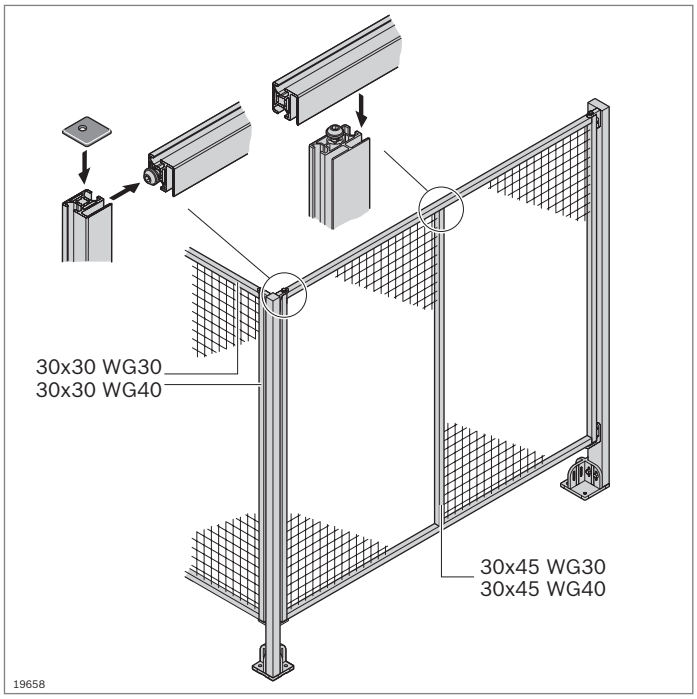
Protective frame	HR (mm)	B (mm) No.
	1800	500 **3 842 554 282**
		750 **3 842 554 283**
		1000 **3 842 554 284**
		1500 **3 842 554 285**
	250 ... 2300	250 ... 1500 **3 842 994 742 / HR, B, FA**
Material:	Frame: Aluminum; anodized Woven wire grille: Steel; hot-zinc-plated	
Color of woven wire grille:	FA = 0: hot-zinc-plated FA = 1: black; RAL 9005 (e.g. for fence) FA = 2: yellow; RAL 1023 (e.g. for doors)	



Protective frame, horizontal sections	**HR** (mm)	**B** (mm)	**No.**
	1800	1000	**3 842 554 281**
	500 ... 2300	250 ... 2500	**3 842 994 745 / HR, B, FA**
Material:	Frame: Aluminum; anodized Woven wire grille: Steel; hot-zinc-plated		
Color of woven wire grille:	FA = 0: hot-zinc-plated FA = 1: black; RAL 9005 (e.g. for fence) FA = 2: yellow; RAL 1023 (e.g. for doors)		



Protective frame, vertical sections	**HR** (mm)	**B** (mm)	**No.**
	1800	2000	**3 842 554 280**
	250 ... 2300	500 ... 3000	**3 842 994 744 / HR, B, FA**
Material:	Frame: Aluminum; anodized Woven wire grille: Steel; hot-zinc-plated		
Color of woven wire grille:	FA = 0: hot-zinc-plated FA = 1: black; RAL 9005 (e.g. for fence) FA = 2: yellow; RAL 1023 (e.g. for doors)		



Frame profiles

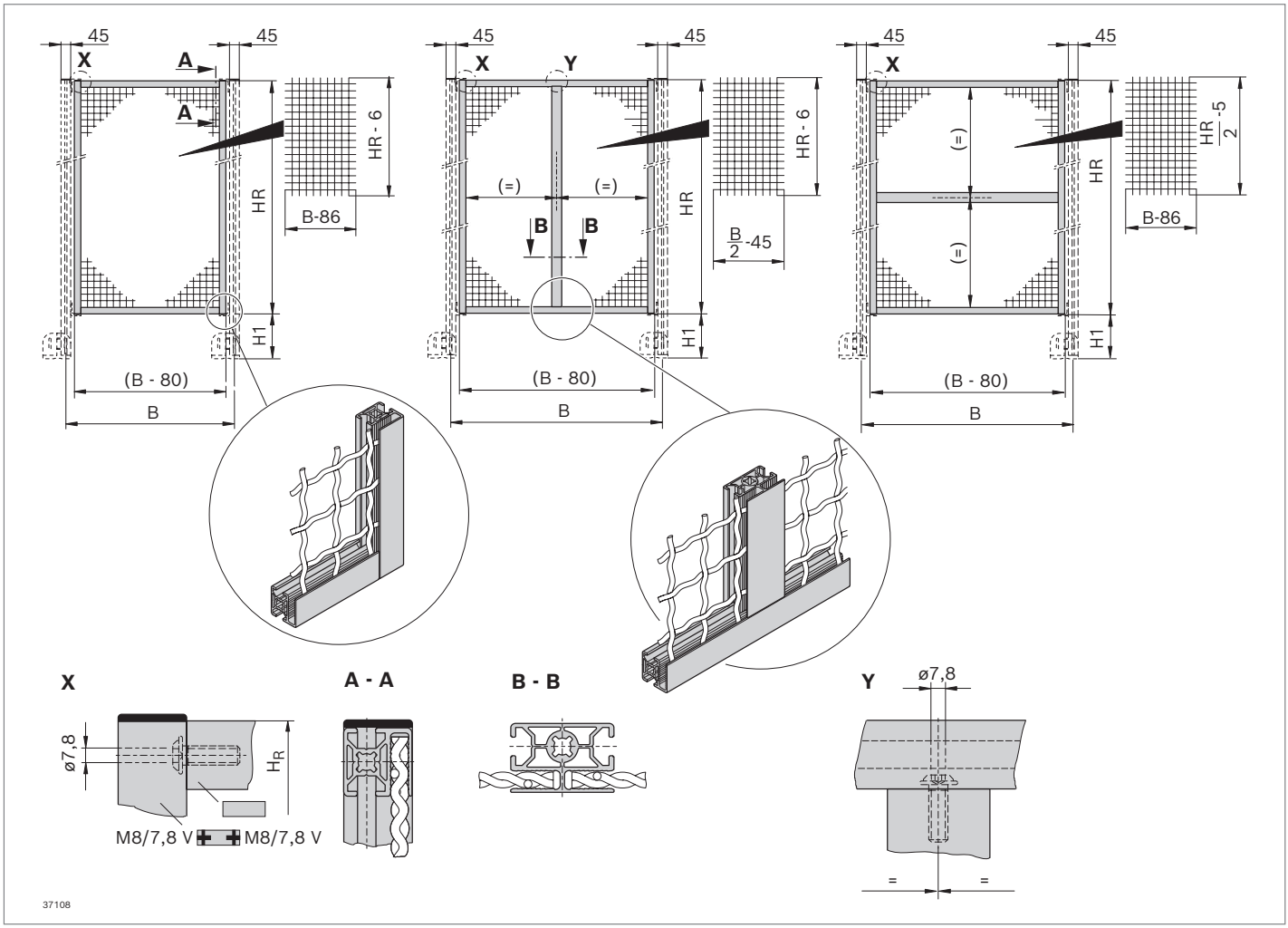


- For the low-cost construction of protective equipment with woven wire grilles WG30 and WG40
- Fastening of woven wire grilles: Directly in the special profile slot
- Fastening of panel elements: In the special profile slot using spring clamping elements (accessories)
- The profiles are connected using a central bolt (profile finishing required)
- Modular dimension “B” relates to 45x45 supports

Required accessories:

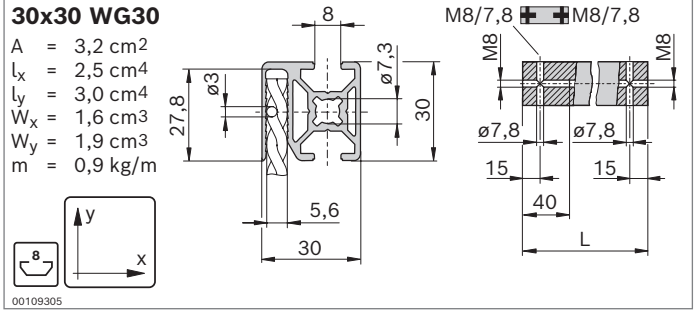
- Central bolt (p. 3-43)
- Spring clamping elements (p. 10-29)

10



30x30 WG30

A = 3,2 cm²
I_x = 2,5 cm⁴
I_y = 3,0 cm⁴
W_x = 1,6 cm³
W_y = 1,9 cm³
m = 0,9 kg/m

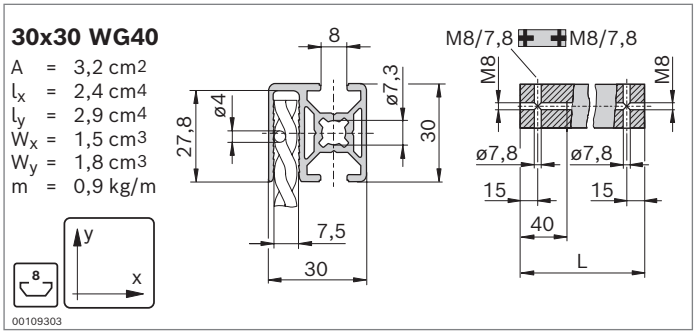


Frame profile 30x30 WG30			L (mm)	No.
1 pc			100 ... 6070	**3 842 992 970 / L**
1 pc	M8/7,8	M8/7,8	100 ... 6000	**3 842 992 977 / L**
1 pc			6070	**3 842 557 237**
20 pcs			6070	**3 842 557 227**

Material: Aluminum; anodized

30x30 WG40

A = 3,2 cm²
I_x = 2,4 cm⁴
I_y = 2,9 cm⁴
W_x = 1,5 cm³
W_y = 1,8 cm³
m = 0,9 kg/m

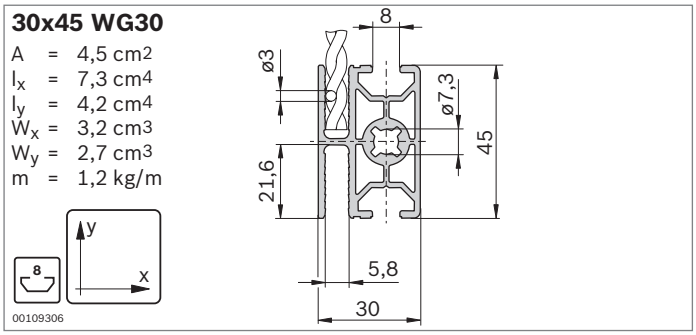


Frame profile 30x30 WG40			L (mm)	No.
1 pc			100 ... 6070	**3 842 992 972 / L**
1 pc	M8/7,8	M8/7,8	100 ... 6000	**3 842 992 978 / L**
1 pc			6070	**3 842 557 239**
20 pcs			6070	**3 842 557 229**

Material: Aluminum; anodized

30x45 WG30

A = 4,5 cm²
I_x = 7,3 cm⁴
I_y = 4,2 cm⁴
W_x = 3,2 cm³
W_y = 2,7 cm³
m = 1,2 kg/m

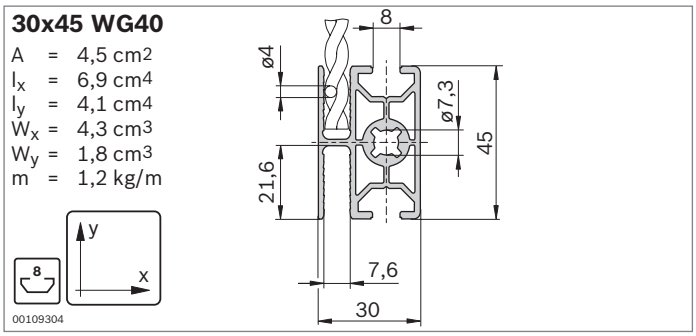


Frame profile 30x45 WG30			L (mm)	No.
1 pc			100 ... 6070	**3 842 992 971 / L**
1 pc			6070	**3 842 557 238**
20 pcs			6070	**3 842 557 228**

Material: Aluminum; anodized

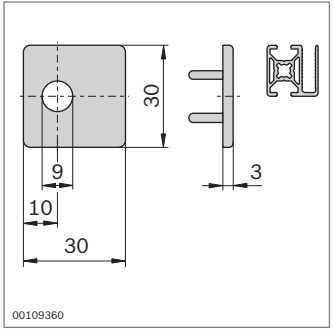
30x45 WG40

A = 4,5 cm²
I_x = 6,9 cm⁴
I_y = 4,1 cm⁴
W_x = 4,3 cm³
W_y = 1,8 cm³
m = 1,2 kg/m



Frame profile 30x45 WG40			L (mm)	No.
1 pc			100 ... 6070	**3 842 992 973 / L**
1 pc			6070	**3 842 557 247**
20 pcs			6070	**3 842 557 240**

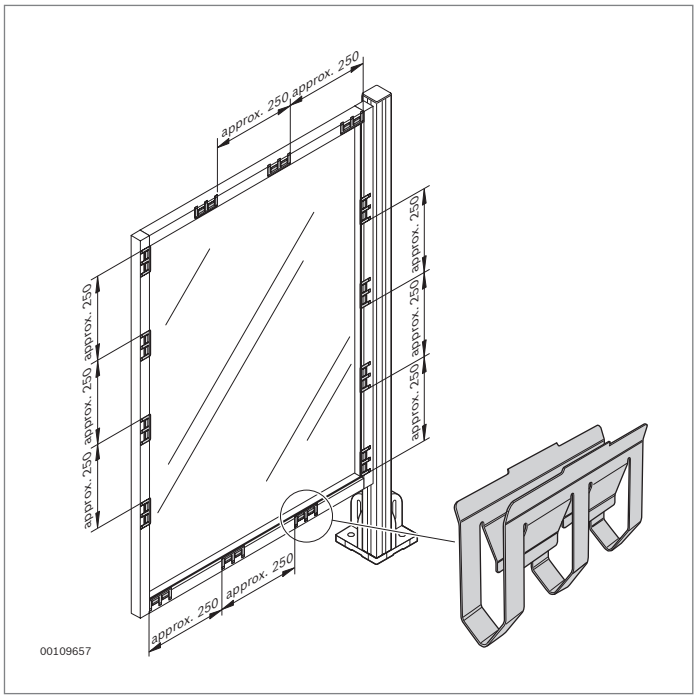
Material: Aluminum; anodized



▶ Cover cap for a more attractive appearance and to prevent injuries

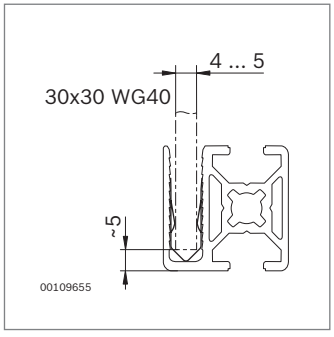
Cover cap	Color	ESD		No.
30x30	Signal gray		20	**3 842 555 134**
30x30	Black		20	**3 842 555 135**

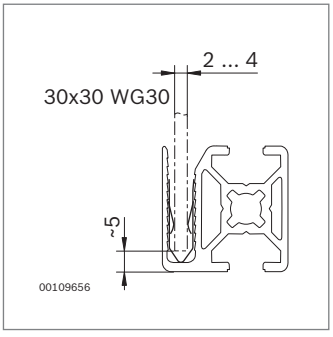
Material: PP

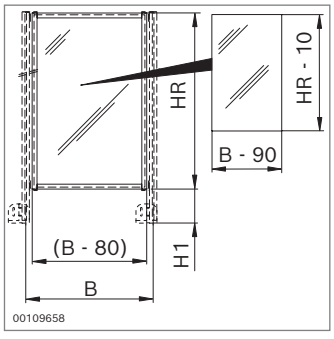


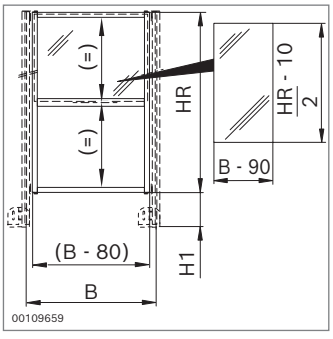
Spring clamping element

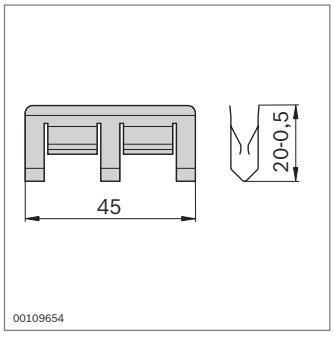
- For clamping panel elements in EcoSafe safety fence profiles 30x30 WG30 and 30x30 WG40
- Play-free clamping
- Individual sections of the protective frames can be filled as you wish



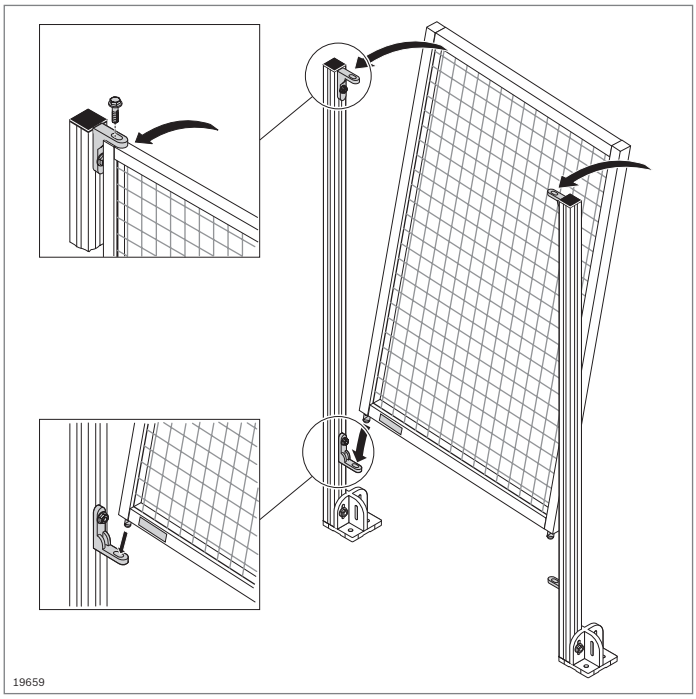








Spring clamping element		No.
	100	**3 842 525 014**
Material:	Spring steel; stainless	



Suspension bracket
Safety Strip safety kit

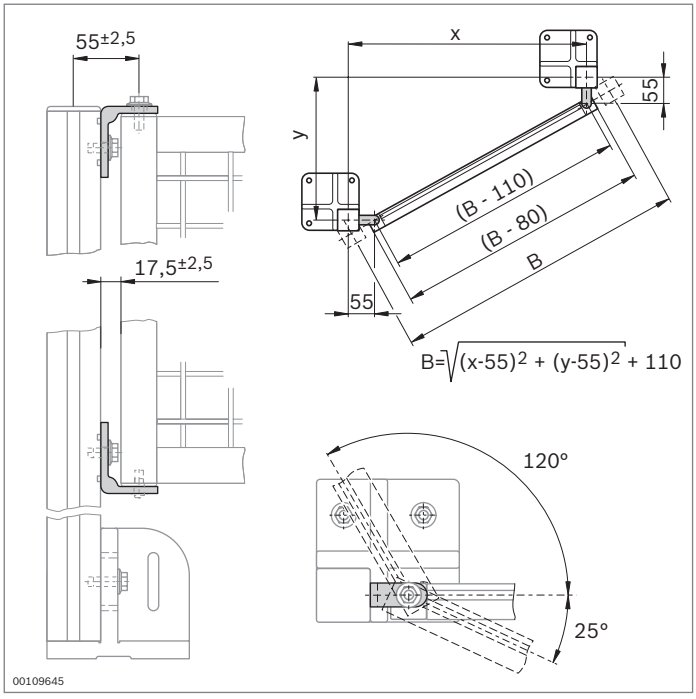
10

Suspension bracket

- For mounting the EcoSafe protective frame on the support at various angles
- Suspension bracket with centering lugs as anti-torsion element

Safety Strip safety kit

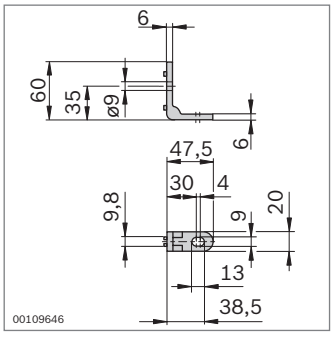
- Safe and inexpensive
- Easy assembly; can be retrofitted
- Patented
- Meets the requirements of Machinery Directive 2006/42/EC: Screw remains connected to the suspension bracket after loosening



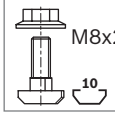
Suspension bracket	No.	FS
Set	**3 842 522 481**	4x FS1, 2x FS2, 2x FS3

Material: Diecast zinc
Fastening material: Steel; zinc-plated

Scope of delivery: In a set with four brackets, incl. fastening material (FS)



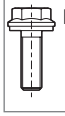
FS1

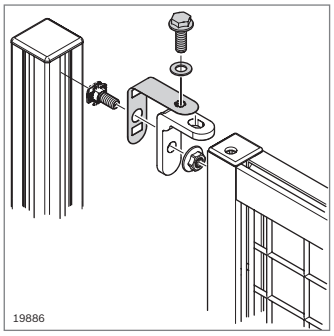


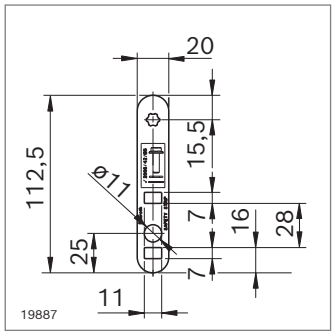
FS2



FS3







Safety Strip safety kit		No.	FS
	10	**3 842 542 146**	FS1

Material: PC translucent, washer: PA6, fastening material: Steel, galvanized

Scope of delivery: Incl. fastening material (FS)

FS1

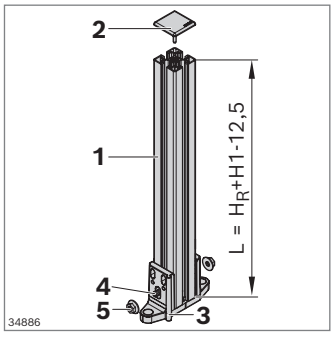


EcoSafe leg set



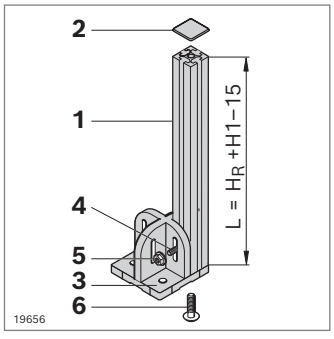
- Leg set as a component for suspension panels, doors and safety fence systems
- For corner connections of two panels

Individually construct the leg sets using standard components



Leg set with foot 45x45

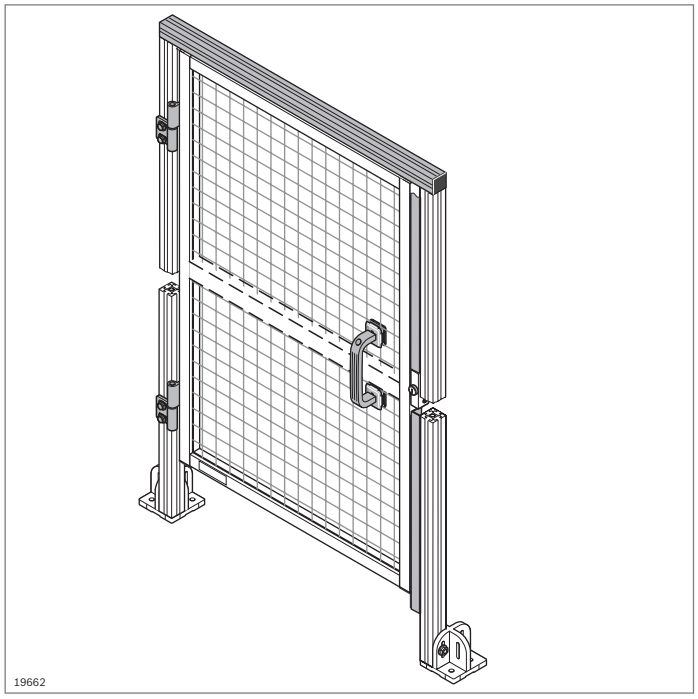
Component		Pcs	No.	Page
1	Profile 45x45L	1	**3 842 992 425 / L**	2-37
2	Cover cap 45x45 ESD	1	**3 842 548 753**	2-37
3	Foot 45x45	1	**3 842 564 814**	6-12
4	T-bolt M8x25	2	**3 842 528 718**	3-6
5	Flange nut M8	2	**3 842 345 081**	3-6



Leg set with base plate 120x120

Component		Pcs	No.	Page
1	Profile 45x45L	1	**3 842 992 425 / L**	2-37
2	Cover cap 45x45 ESD	1	**3 842 548 753**	2-37
3	Base plate 120x120	1	**3 842 527 553**	6-11
4	T-bolt M8x30	2	**3 842 528 721**	3-6
5	Flange nut M8	2	**3 842 345 081**	3-6
6	Central bolt S12x30-T50	1	**3 842 530 236**	3-43

Door kits

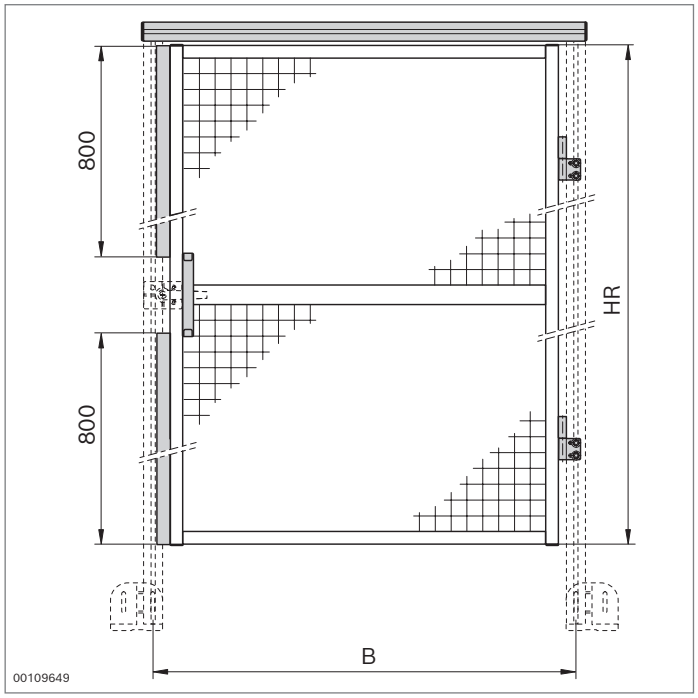


EcoSafe system door kit

- For assembling an EcoSafe system door
- Use of finished protective frame as a door
- For doors that open to the left or right
- Required components:
  - Assembly kit for system door
  - Protective frame (p. 10-33)
- Also available with leg sets with 45x90L profiles for more stability

Accessories, optional:

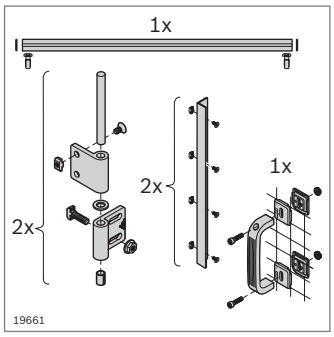
- Door lock (p. 8-12, 8-13, 8-14, 8-16, 8-18, 8-20)
- Attachment kit for safety switch (p. 10-40)
- Base plate 150x150 (3 842 524 469) with leg set made of 45x90L profiles
- For doors HR > 1850 mm, an additional hinge (3 842 544 562) is recommended

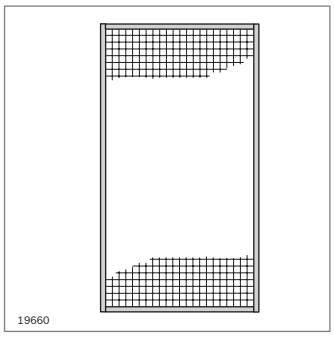


Assembly kit for system door	HR* (mm)	B (mm)	No.
	1800 ... 2350	750	**3 842 523 165**
	1800 ... 2350	1000	**3 842 523 166**

Scope of delivery: 2 x hinge, 2 x stop rail, profile as door lintel, bow-type handle, incl. fastening material

* HR dependent on protective frame (HR)





Selection of suitable protective frames

Frame profile 22.5x45

Protective frame	HR (mm)	B (mm)	No.
Protective frame HF, galvanized	1850	750	**3 842 567 946**
Protective frame HF, black	1850	750	**3 842 567 950**
Protective frame HF[1], galvanized	1850	1000	**3 842 567 953**
Protective frame HF[1], black	1850	1000	**3 842 567 954**

[1] horizontally divided

Material: Aluminum; spot-weld wire grille and fastening material: Steel; zinc-plated

Scope of delivery: Fully assembled

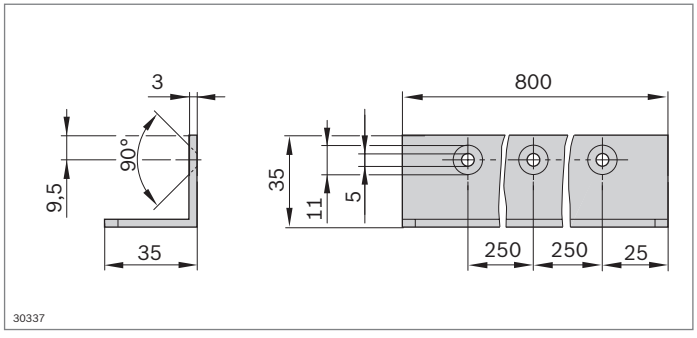
Frame profile 30x30 WG40

Protective frame	HR (mm)	B (mm)	No.
Protective frame, galvanized	1800	750	**3 842 554 283**
Protective frame[1], galvanized	1800	1000	**3 842 554 281**

[1] horizontally divided

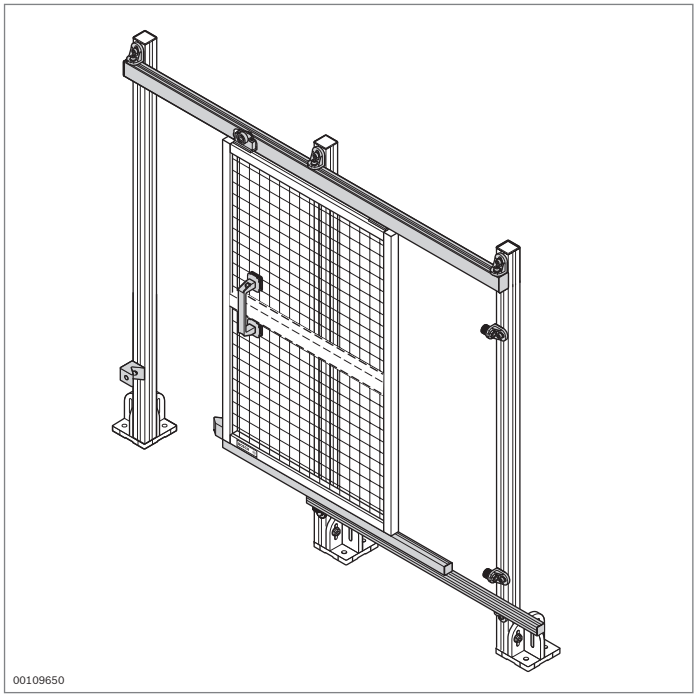
Material: Aluminum; woven wire grille and fastening material: Steel; zinc-plated

Scope of delivery: Fully assembled



▶ System door stop rail for self-assembly

Stop rail	No.
	3 842 523 170

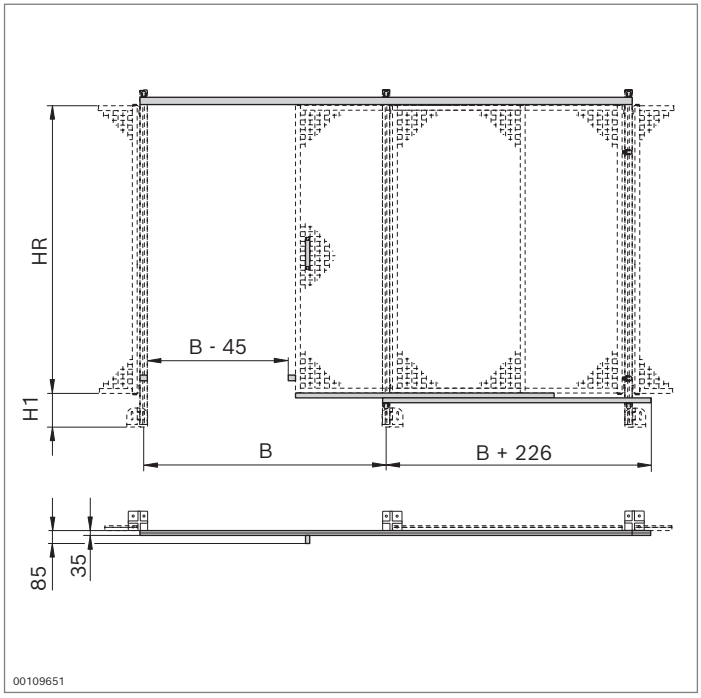


EcoSafe assembly kit for sliding door with superstructure

- Assembly kit for installing an EcoSafe sliding door with superstructure
- Use of finished protective frame as a door
- Easy subsequent installation in a safety fence
- Rollers with ball bearings for smooth running
- For doors that open to the left or right
- Required components:
  - Assembly kit for sliding door with superstructure
  - Protective frame (p. 10-35)
- Also available with leg sets with 45x90L profiles for more stability

Accessories, optional:

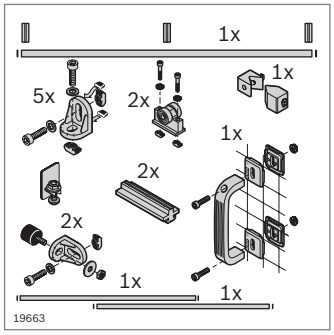
- Door lock (p. 8-12, 8-14, 8-16, 8-20)
- Base plate 150x150 (3 842 524 469) with leg set made of 45x90L profiles

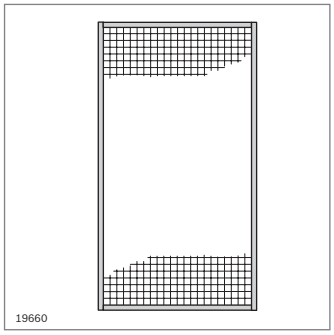


Assembly kit for sliding door with superstructure	**HR*** (mm)	**B** (mm)	**No.**
	1800 … 2350	1000	**3 842 524 163**
	1800 … 2350	1500	**3 842 524 164**

Scope of delivery: 2 x bumper, 2 x slider, 2 x trolley, profile for door superstructure, 7 x mounting bracket, stop kit, 2 x profile for sliding door

* HR dependent on protective frame (HR)





Selection of suitable protective frames

Frame profile 22.5x45

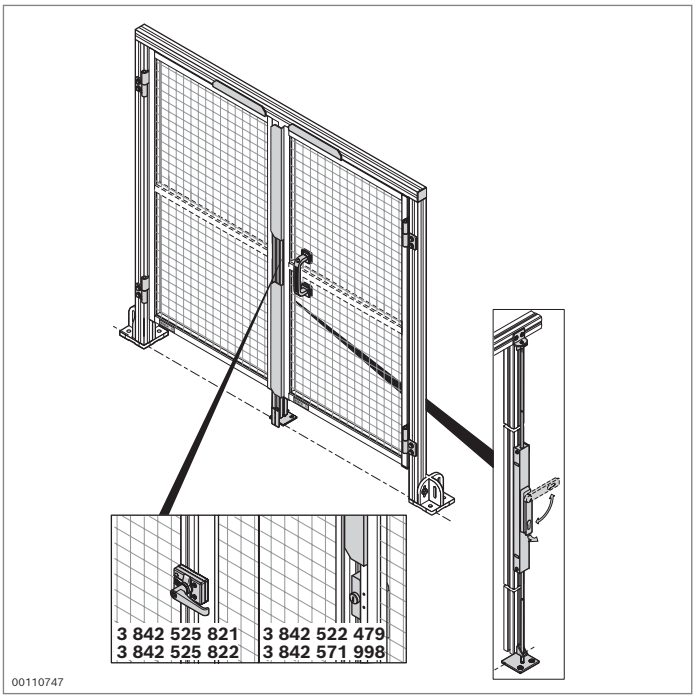
Protective frame	HR (mm)	B (mm)	No.
Protective frame HF, galvanized	1850	1000	**3 842 567 947**
Protective frame HF, black	1850	1000	**3 842 567 951**
Protective frame HF, galvanized	1850	1500	**3 842 567 948**
Protective frame HF, black	1850	1500	**3 842 567 952**

Material: Aluminum; spot-weld wire grille and fastening material: Steel; zinc-plated
Scope of delivery: Fully assembled

Frame profile 30x30 WG40

Protective frame	HR (mm)	B (mm)	No.
Protective frame, galvanized	1800	1000	**3 842 554 284**
Protective frame, galvanized	1800	1500	**3 842 554 285**

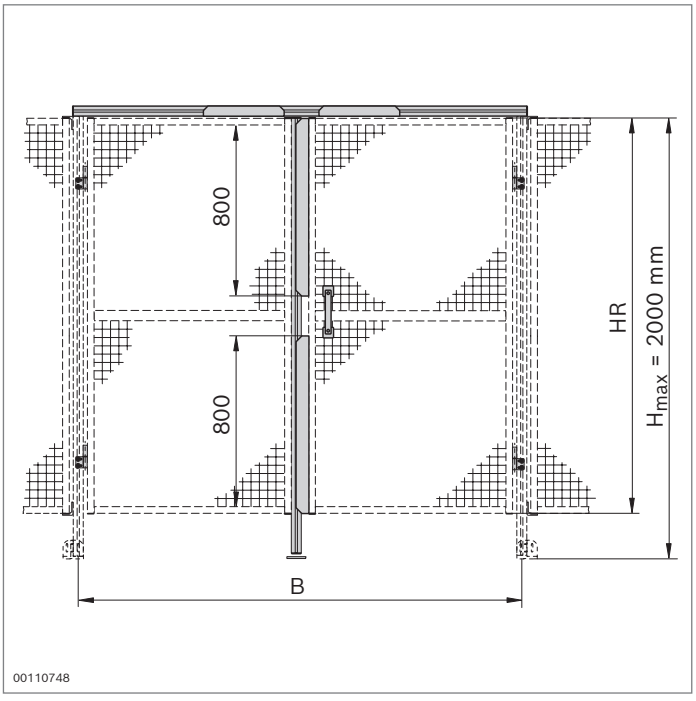
Material: Aluminum; woven wire grille and fastening material: Steel; zinc-plated
Scope of delivery: Fully assembled



EcoSafe double door kit

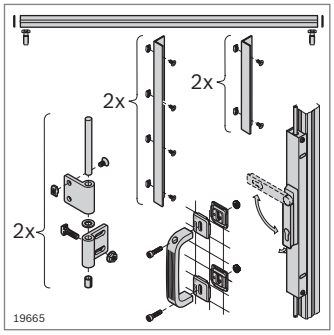
- Assembly kit for installing an EcoSafe double door
- Use of finished protective frame as a door
- Easy subsequent installation in a safety fence
- Optional installation of a standard lock cylinder in the lock mechanism for double door
- Required components:
  - Double door kit
  - Two protective frames (p. 10-37)
- Also available with leg sets with 45x90L profiles for more stability

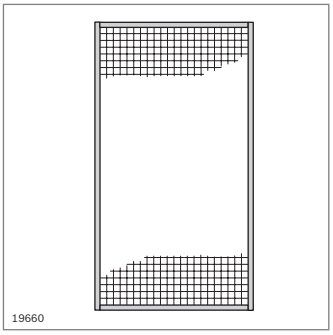
Accessories, optional:
- Door lock (p. 8-12/8-13)
- Attachment kit for safety switch (p. 10-40)
- Conventional lock cylinder 35/35 (not included in the scope of delivery)
- Base plate 150x150 (3 842 524 469) with leg set made of 45x90L profiles



Double door kit	HR (mm)	B (mm)	No.
	1800/1850	1500	**3 842 525 781**
	1800/1850	2000	**3 842 525 782**

Scope of delivery: Lock mechanism assembly kit, profile for door superstructure, profile for door stop, 4x hinges, lock bracket, base plate, bow-type handle, 2x horizontal brackets, 2x vertical brackets, rail, fastening material





Selection of suitable protective frames

Frame profile 22.5x45

Protective frame	HR (mm)	B (mm)	No.
Protective frame HF, galvanized	1850	750	**3 842 567 946**
Protective frame HF, black	1850	750	**3 842 567 950**
Protective frame HF[1], galvanized	1850	1000	**3 842 567 953**
Protective frame HF[1], black	1850	1000	**3 842 567 954**

[1] horizontally divided

Material: Aluminum; spot-weld wire grille and fastening material: Steel; zinc-plated

Scope of delivery: Fully assembled

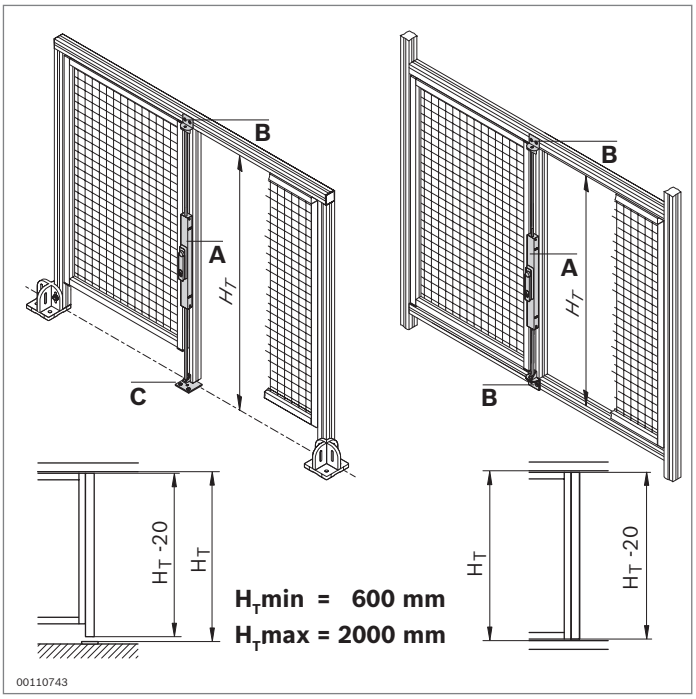
Frame profile 30x30 WG40

Protective frame	HR (mm)	B (mm)	No.
Protective frame, galvanized	1800	750	**3 842 554 283**
Protective frame[1], galvanized	1800	1000	**3 842 554 281**

[1] horizontally divided

Material: Aluminum; woven wire grille and fastening material: Steel; zinc-plated

Scope of delivery: Fully assembled

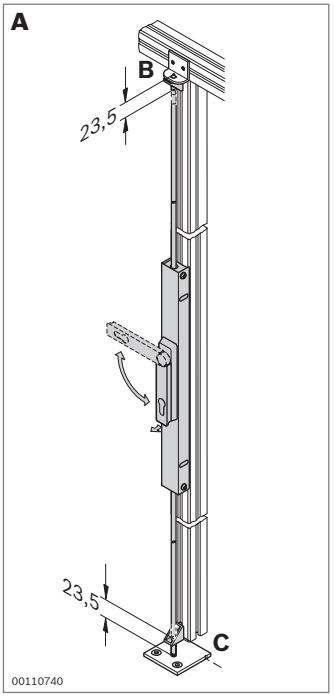


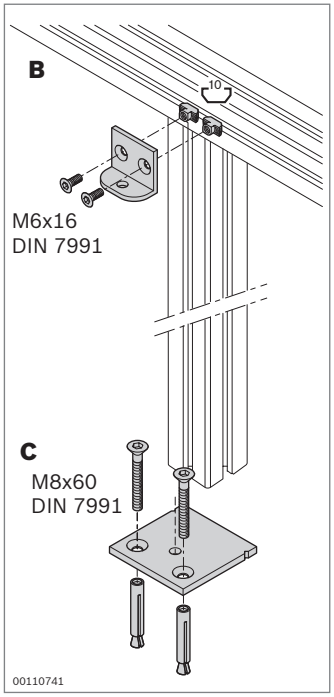
Lock mechanism for double door

10

- Components for constructing a lock mechanism for double doors
- Optional installation of a standard lock cylinder in the lock mechanism for double door
- Locking mechanism assembly kit (**A**) for individually designed double doors with $H_T$max = 2000 mm
- Lock bracket (**B**) for mounting the lock bolt bar
- Base plate (**C**) for mounting the lock bolt bar; fastened to the floor with supplied dowels. For doors which can be driven through

Accessories, optional:
Conventional lock cylinder 35/35 (not included in the scope of delivery)





Lock mechanism assembly kit	No.	FS
A	**3 842 525 780**	2xFS1, 2xFS2, 4xFS3

Material:	Housing: Aluminum Door handle: PA; black Lock bolt: Steel; zinc-plated Lock bolt guide bracket: Diecast zinc
Scope of delivery:	Lock mechanism for double door, incl. fastening material (FS)

Lock bracket	No.	FS
B	**3 842 526 786**	2xFS4

Material:	Aluminum; anodized
Scope of delivery:	Incl. fastening material (FS)

Base plate	No.	FS
C	**3 842 526 787**	2xFS5

Material:	Floor plate: Steel; stainless Floor dowel: Steel; zinc-plated
Scope of delivery:	Incl. fastening material (FS)

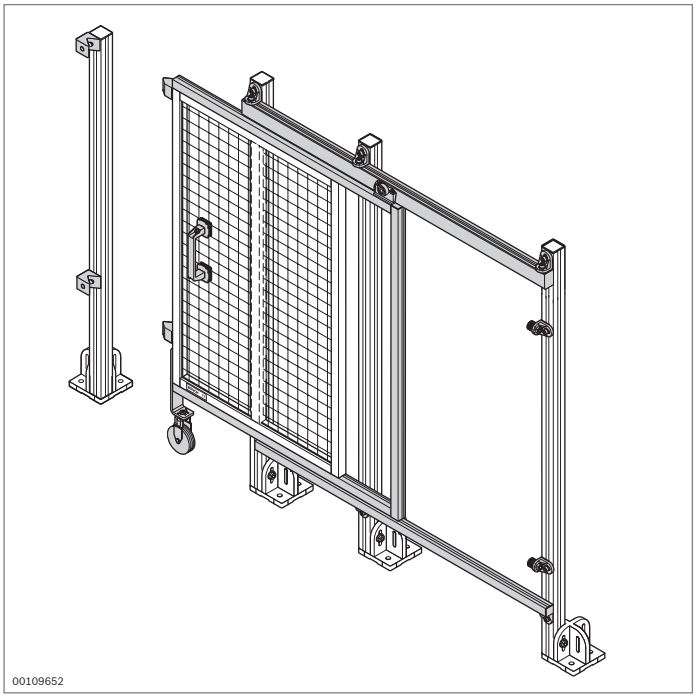
FS1
DIN 7991
M6x20
M6 10

FS2
DIN 7984
M6x16
M6 10

FS3
DIN 7380
M6x8

FS4
DIN 7991
M6x16
10

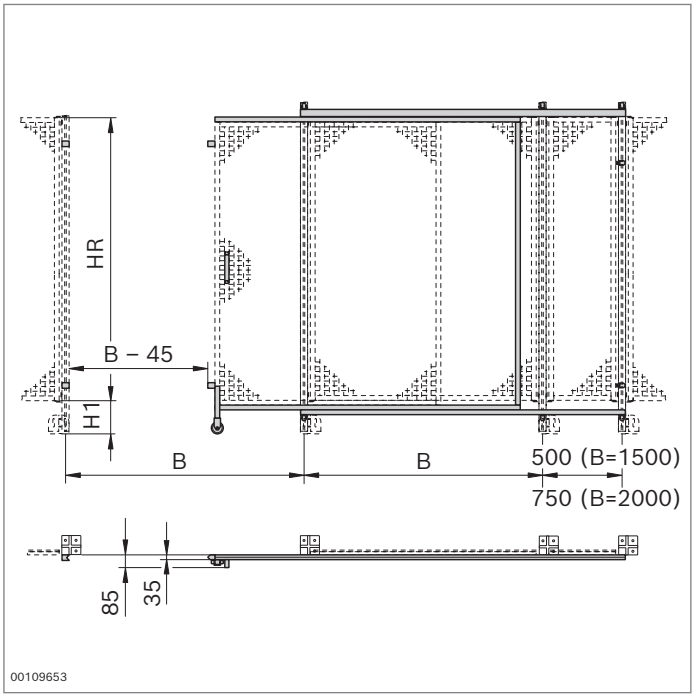
FS5
DIN 7991
M8x60



EcoSafe assembly kit for sliding door without superstructure

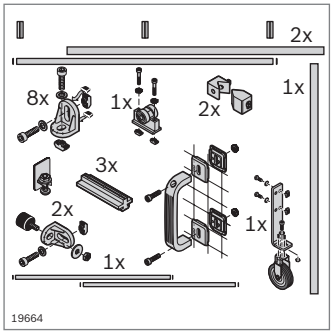
- Only suitable for frame profile 30x30 WG40
- Assembly kit for installing an EcoSafe sliding door without superstructure
- Use of finished protective frame as a door
- Rollers with ball bearings for smooth running
- For doors that open to the left or right
- Required components:
  - Assembly kit for sliding door without superstructure
  - Protective frame
- Also available with leg sets with 45x90L profiles for more stability

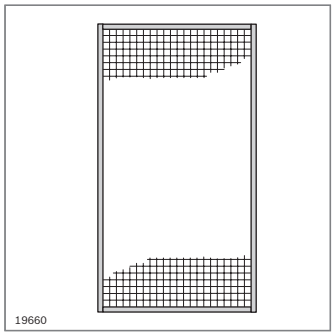
Accessories, optional:
Door lock (p. 8-12/8-14)



Assembly kit for sliding door without superstructure	HR (mm)	B (mm)	No.
	1800	1500	**3 842 524 165**
	1800	2000	**3 842 524 166**

Scope of delivery: 2 x bumper, 3 x slider, trolley, profile for door superstructure, 8 x mounting bracket, 2 x stop kit, 2 x profile for sliding door, incl. fastening material



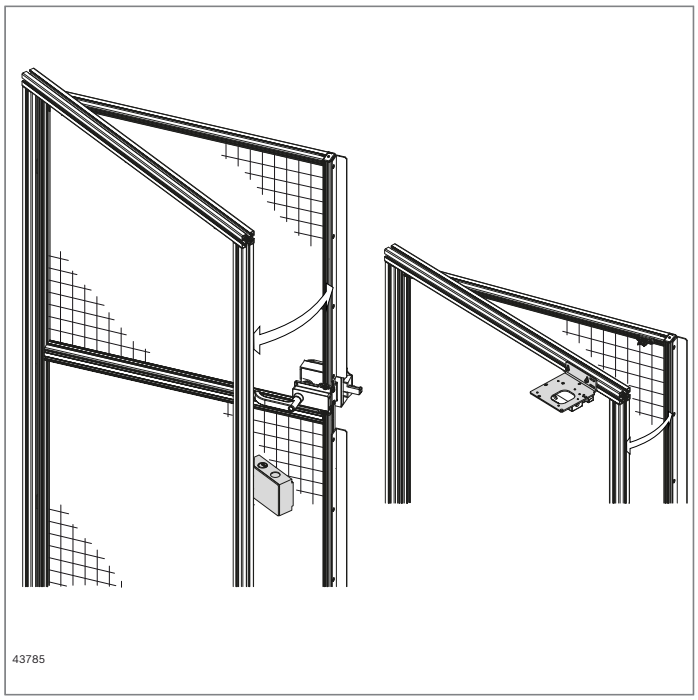


Selection of suitable protective frames

Frame profile 30x30 WG40

Protective frame	HR (mm)	B (mm)	No.
Protective frame, galvanized	1800	1500	**3 842 554 285**
Protective frame, galvanized, vertically divided	1800	2000	**3 842 554 280**

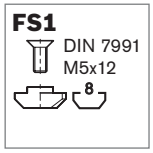
Material: Aluminum; woven wire grille and fastening material: Steel; zinc-plated
Scope of delivery: Fully assembled

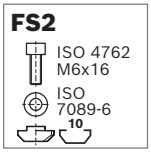


Attachment kits for safety switches



- For installing standard commercially available safety switches on EcoSafe system doors
- For frame profiles 22.5x45 and 30x30 WG40

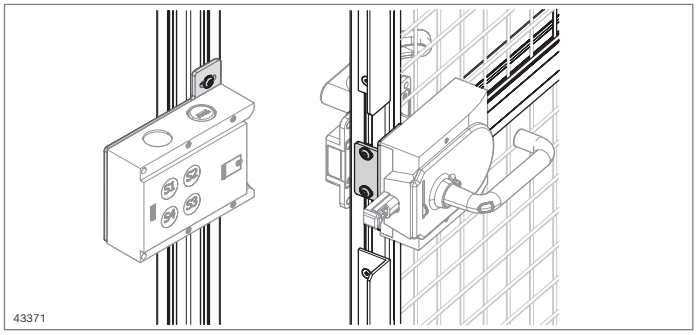




Attachment kit for safety switch		No.	FS
For safety switch	**For actuator**		
Euchner NZ 1 VZ...	024298; 024299	**3 842 522 475***	2xFS1, 2xFS2
Euchner NZ 2 VZ...	024298; 024299		
Euchner NZ 1 VS...	024298; 024299		
Euchner NZ 2 VS...	024298; 024299		
Schmersal AZ15,...	AZ15/16-B2-1747		
Schmersal AZ16,...	AZ15/16-B2-1747		
Schneider Electric XCS - A...	XCS-Z03		
Schneider Electric XCS - C...	XCS-Z03		
Schneider Electric XCS - PA...	XCS-Z13		
Schneider Electric XCS - TE...	XCS-Z13		
Euchner TZ...	024298; 024299	**3 842 522 476****	2xFS1, 2xFS2
Schneider Electric XCS - LE/ LF...	XCS-Z03		
Schneider Electric XCS - TE...	XCS-Z13		
Schneider Electric XCS - PA...	XCS-Z13; AZM161-86		
Schmersal AZM161...	AZM161-B1		
Schmersal AZM161...	AZM161-B1E	**3 842 522 477****	2xFS1, 2xFS2

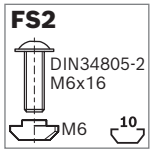
*) for 30x30 WG40; **) for 22.5x45 and 30x30 WG40

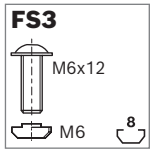
Material: Steel; zinc-plated
Scope of delivery: Incl. adapter plate, bracket, incl. fastening material (FS)

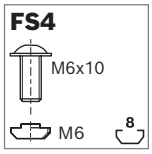


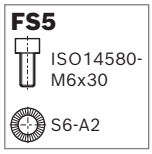
- For frame profiles 30x30WG and 22.5x45
- Adapter plate for attachment of Euchner MGB and MGB2 switches
- Attention: Euchner attachment plate needed for assembly. Order data:
  MGB-A-Mountingplate-L Article number: 109490









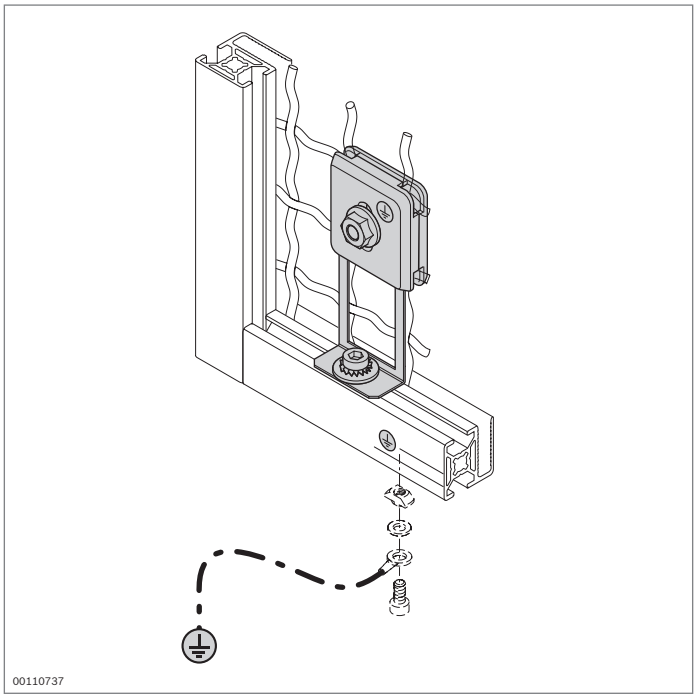


Attachment kit Safety Switch PG T4	Slot	ESD	No.	FS
	10/8		**3 842 567 404**	2xFS1 2xFS2 2xFS3 2xFS4 2xFS5

Material:	Steel, galvanized
Scope of delivery:	Incl. fastening material (FS)

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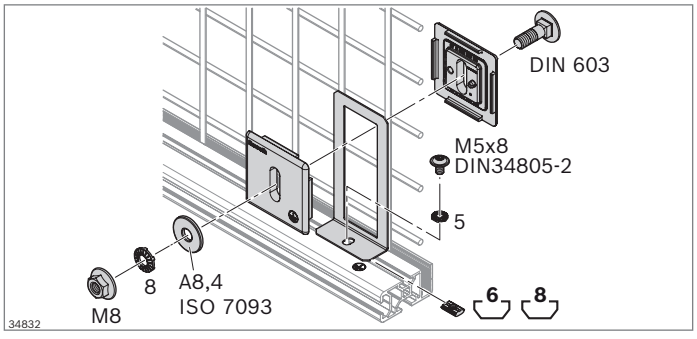
Accessories



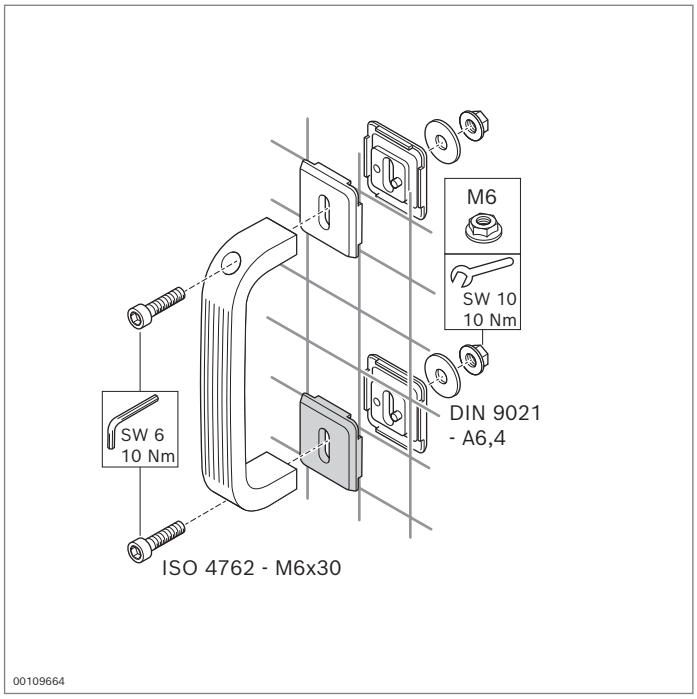
Ground terminal



- Grounding element for making an electrically conductive connection between WG40 woven wire grille or 40x40x3.8 spot-weld wire grille and protective frame
- Guarantees safe conduction of short-circuit currents up to a rated current of 63 A
- For frame profiles 30x30WG and 22.5x45



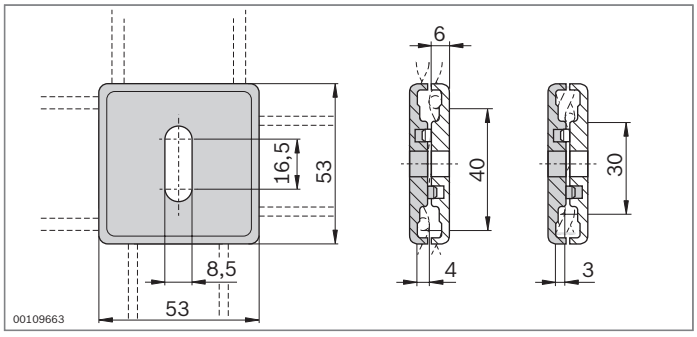
Ground terminal EcoSafe PG	No.
	3 842 567 957
Material:	Ground terminal: Steel; stainless Clamping element: PA; signal gray Fastening material: Steel; zinc-plated
Scope of delivery:	Incl. Fastening material



Clamping element

- For attaching handles, information boards or warning signs to woven wire grilles 40x40x4, 30x30x3 and spot welding grille 40x40x3.8
- Clamping with opposing pairs of clamping elements

Required accessories:
Fastening material; see drawing



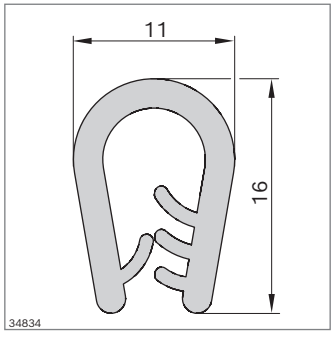
Clamping element		No.
	20	**3 842 555 178**
Material:	PA66; signal gray (RAL 7004)	

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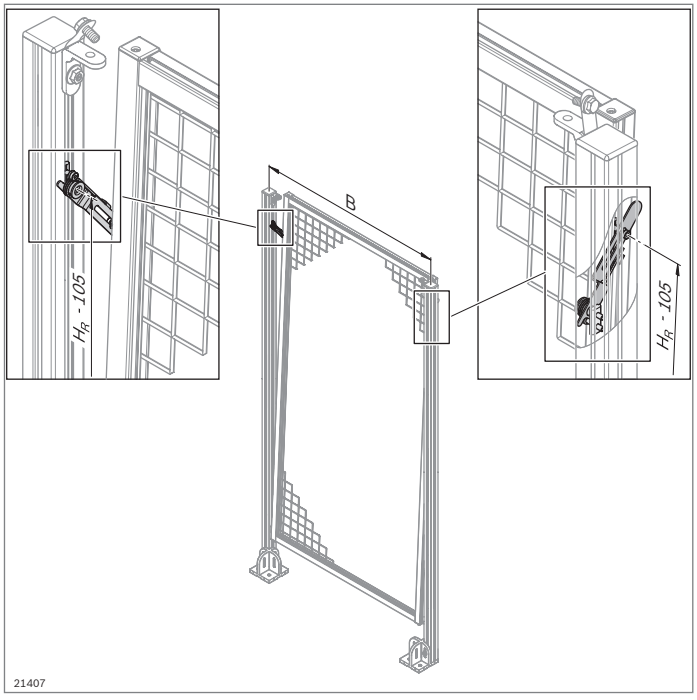


Edge protector

- For covering edges and wires in cutouts in the protective frame
- For panel elements and grilles with a thickness of 2 mm to 5 mm

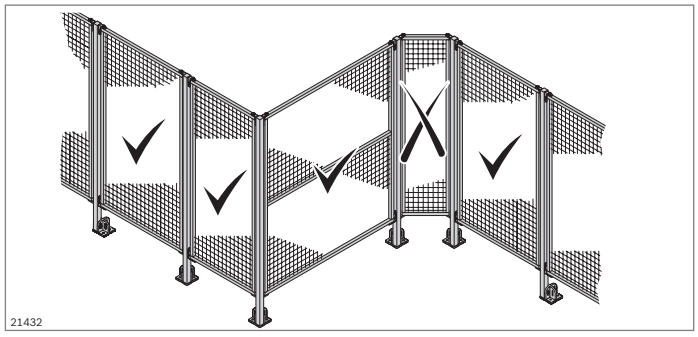


Edge protector		L (mm)	No.
		1000	**3 842 567 937**
Material:	PVC with metal clamp band; black		



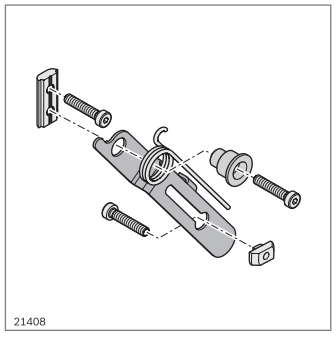
Tilt lever

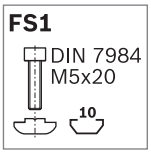
- For compliance with the requirement in Machinery Directive 2006/42/EC relating to the detaching of protective frames
  - The long-arm spring is designed so that it tilts the protective frame outwards, making it clear that the protective frame is detached
  - Protective frame cannot fall out
- Easily removable EcoSafe protective frames
- Can be retrofitted
- Installation on both sides recommended for EcoSafe protective frames of width B >1500 mm



Possible installation situation:

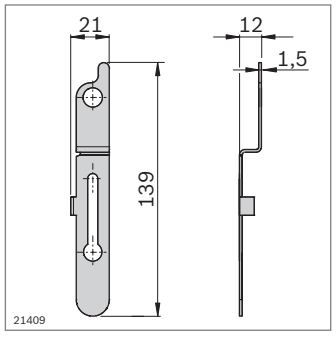
- Not suitable for installing the protective frame across a corner

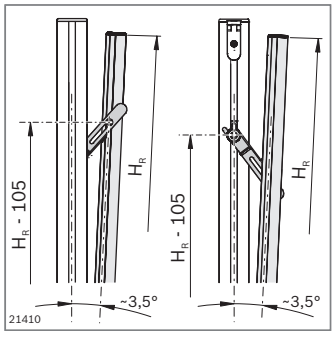


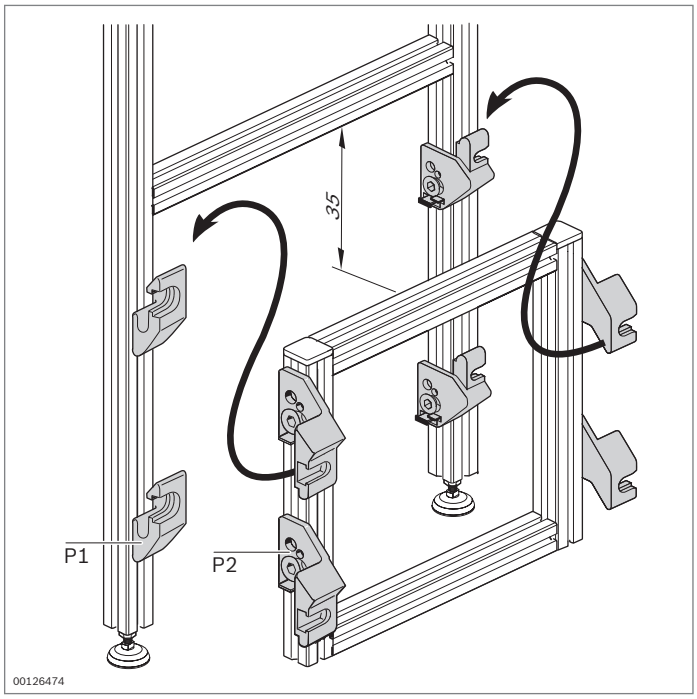




Tilt lever		No.	FS
		3 842 546 560	FS1, FS2
Material:	Holding plate: Stainless steel Spacer: Aluminum Long-arm spring: Spring steel		
Scope of delivery:	Holding plate, spacer, long-arm spring, fastening material (FS)		



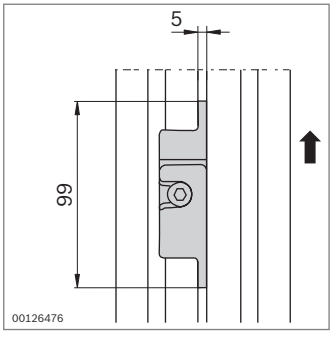


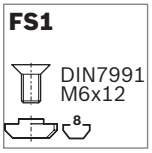


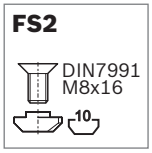
Suspension piece for frames

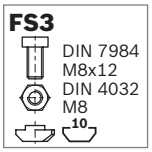


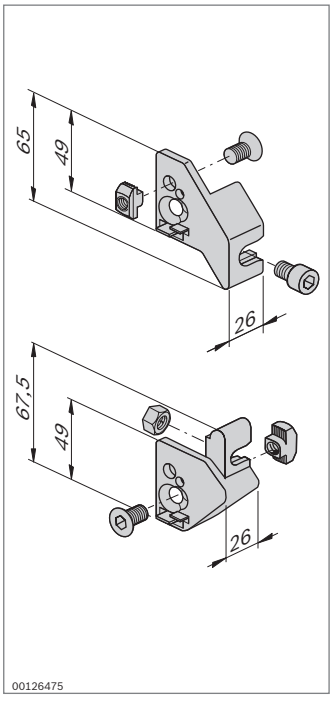
- Very quick fitting and removal of pre-assembled frames in prepared supporting structures
- Protection against unintentional lifting out due to both parts of the suspension piece being screwed in
- Notes on compliance with the Machinery Directive 2006/42/EC: Please note that fastening parts may work loose during disassembly











Suspension piece	P1	P2	No.	FS
Set	45	30	**3 842 515 531**	4x FS1, 4x FS2, 4x FS3
Set	45	45	**3 842 515 863**	8x FS2, 4x FS3

Material: Diecast zinc
Scope of delivery: Four suspension pieces, incl. fastening material (FS)