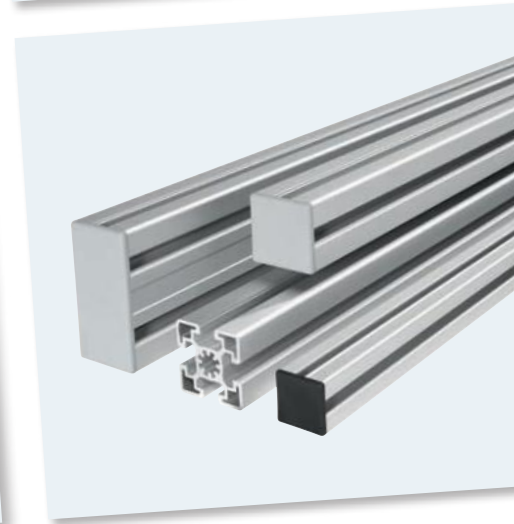
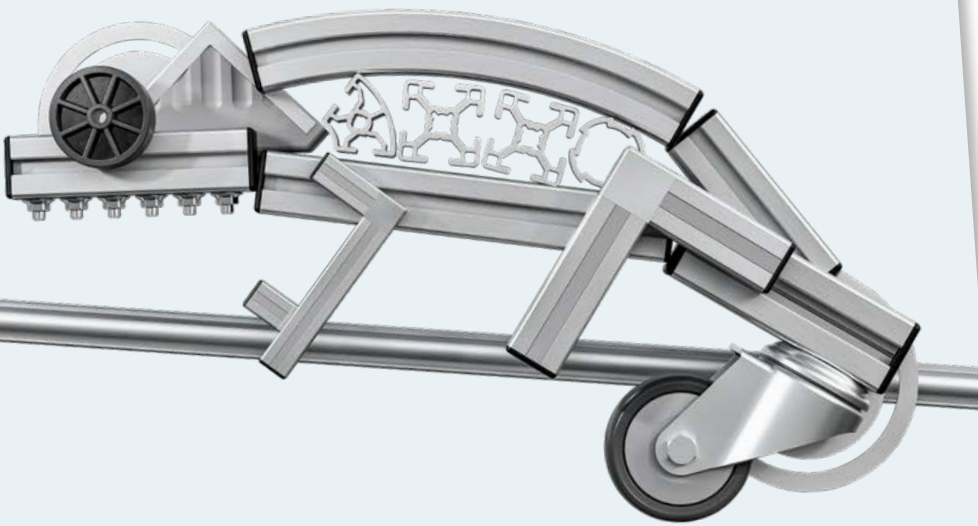






# Basic mechanic elements <sup>15.0</sup>



# Explanations

40x40 HR		L (mm)	No.
1 pc		50 ... 6070	<b>3 842 993 256 / L</b>
1 pc	M12  M12	110 ... 6000	<b>3 842 993 257 / L</b>
 20 pcs		6070	<b>3 842 529 381</b>

Product available for delivery as:


Single component of variable length, e.g.

Order: 1 x 3 842 993 257 / 785

Delivery: 1 x 40 x 40 HR with M12 profile finishing on both sides, L = 785 mm

Delivery unit (: here 20 pcs) of fixed length, e.g.

Order: 1 x 3 842 529 381

Delivery: 20 x 40 x 40 HR (without profile processing), L = 6070 mm M12  M12 Notes on profile finishing, see Section 2

50/50	Slot	ESD 	No.
Bracket (standard)	10		<b>3 842 530 381</b>

The product is delivered in packaging units (: in this case

20 units); i.e. the order quantity must at least equal the specified quantity or a multiple of it; differing quantities will be rounded up.



Order examples:

Order: 1 x 3 842 530 381 – delivery: 20 x brackets 50/50

Order: 20 x 3 842 530 381 – delivery: 20 x brackets 50/50

Order: 30 x 3 842 530 381 – delivery: 40 x brackets 50/50

Threaded sleeve	No.
	<b>3 842 504 790</b>

For order tables without the column , the following applies:  = 1

Order examples:

Order: 1 x 3 842 504 790 – delivery: 1 x threaded sleeve incl.

fastening material (FS) enclosed with the product for peripheral mounting



Profiles with slot width 6, 8, 10 mm; accessories suitable for mounting on profiles with specified slot width



Profile with slot width 10 mm; modular dimension 40 mm, 45 mm, 50 mm, 60 mm; accessories suitable for mounting on profiles with the specified slot width and modular dimension



Conductive material version in accordance with DIN EN 61340-5-1; suitable for use in ESD-sensitive areas



Suitable for use in clean rooms



Profile finishing required (drilling, thread cutting, milling)



The centering tab can be broken off for offset assembly or assembly at an angle to the profile slot



Screw with Torx profile



Weight



Permissible load (N)

<b>Introduction</b>	<b>1</b>
<b>Strut profiles</b>	<b>2</b>
<b>Connection elements</b>	<b>3</b>
<b>Joints</b>	<b>4</b>
<b>Air-supply elements</b>	<b>5</b>
<b>Feet and wheels</b>	<b>6</b>
<b>Mounting of panel elements</b>	<b>7</b>
<b>Doors and fittings</b>	<b>8</b>
<b>Accessories for protective equipment</b>	<b>9</b>
<b>Protective equipment and partition walls EcoSafe</b>	<b>10</b>
<b>Installation elements</b>	<b>11</b>
<b>Elements for manual movement</b>	<b>12</b>
<b>Linear guides</b>	<b>13</b>
<b>Tools</b>	<b>14</b>
<b>FiFo station</b>	<b>15</b>
<b>Components for lateral guides</b>	<b>16</b>
<b>Components for ESD applications</b>	<b>17</b>
<b>Technical data</b>	<b>18</b>
<b>Material number overview</b>	<b>19</b>
<b>Index</b>	<b>20</b>

# FRAME YOUR FACTORY – with the modular aluminum profile system

THE ORIGINAL  
BOSCH PROFILE

Only from

**rexroth**  
A Bosch Company

# Realize ideas

## Virtually limitless possibilities with the versatile modular aluminum profile system

From flow racks and frames made of aluminum profiles, enclosures, ergonomic assembly work stations through to fully automated production lines with transfer systems – the well-designed and versatile assembly technology from Bosch Rexroth sets the benchmark. Based on decades of practical experience, it is continuously being enhanced.

With its modular, perfectly coordinated components, the Bosch Rexroth modular profile system offers tailored and economical solutions – for every challenge in production, assembly, and workplace design.

### Your benefits:

#### Smart product concept

Proven design and modular construction with optimally matched accessories

#### Short time to value

Time-saving assembly, standardized elements, maximum availability

#### Maximum planning security

Free planning software, CAD data, high flexibility, and a wide range of options

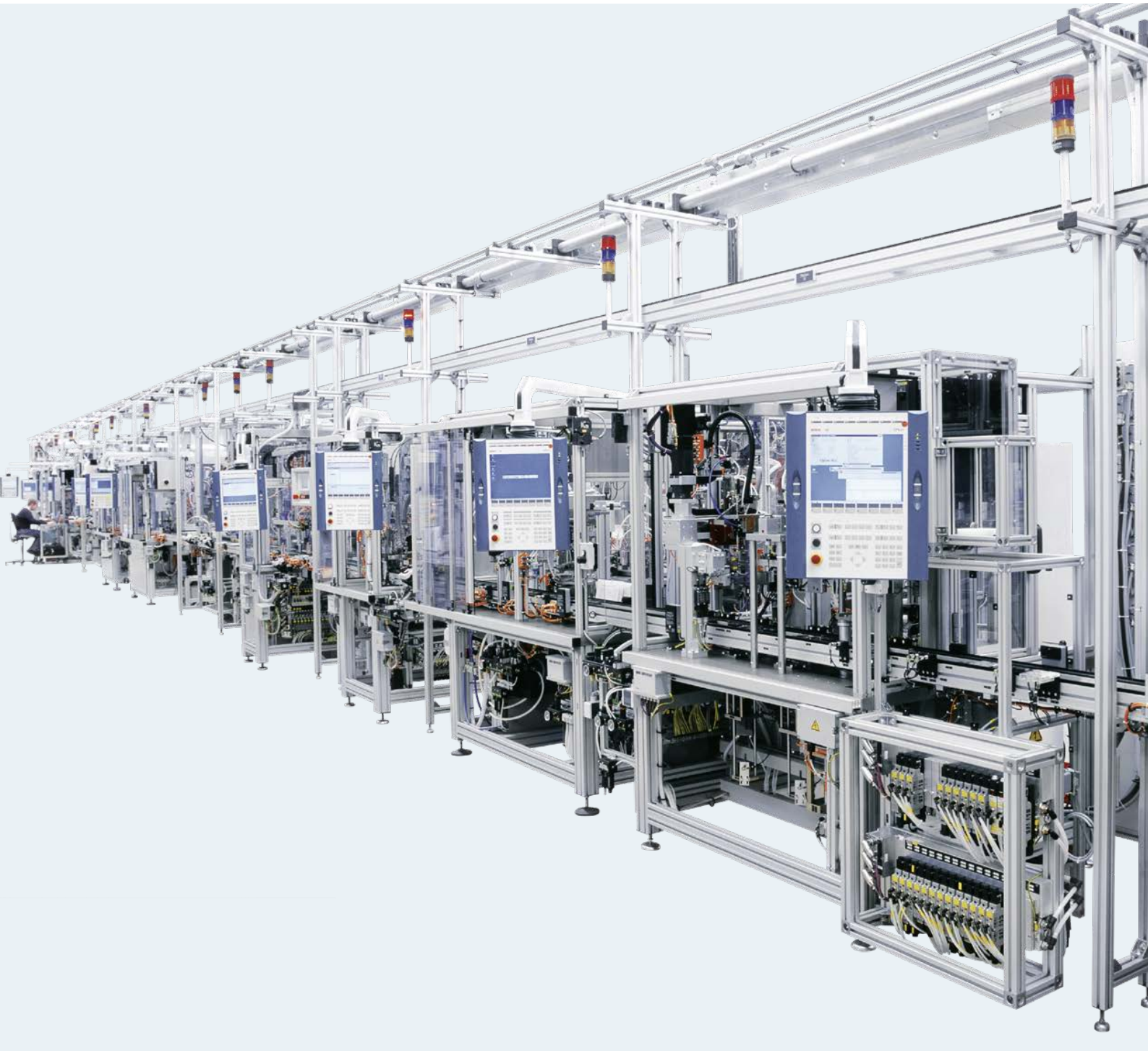
#### Highest quality and safety

Durable, corrosion-resistant and made of 100 % recyclable aluminum, meets common standards, guaranteed performance values

#### Competent partner

Worldwide network, personal advice, fast and timely delivery

# One construction kit, limitless possibilities





## Versatile

The world's largest portfolio of aluminum profiles, combined with versatile connection elements and a wide range of accessories, gives you the ultimate freedom to design innovative, secure, and productive solutions – whether in production, assembly, or workplace design.

Thanks to the simple design and standardized components, adaptations and expansions can be implemented quickly and efficiently – with minimal use of tools.

### Strong profiles

- ▶ Over 140 profile cross-sections
- ▶ Finely tuned profile dimensions
- ▶ Economical choice for any load scenario

### Secure connection technology

- ▶ More than 300 connector variants
- ▶ Well-thought-out design
- ▶ The Rexroth connectors keep a firm hold

### Accessories that fit perfectly

- ▶ Over 1000 accessories
- ▶ Easy assembly in profile slot or central hole

### Maximize load capacity and safety

- ▶ Robust profiles and stable connectors able to withstand high forces
- ▶ Comprehensive color concept
- ▶ ESD-compatibility according to DIN EN 61340-5-1
- ▶ Integrated anti-torsion elements and positioning aids

# Design elements – perfect look and clear labeling



## ***designLINE* – The perfect combination of quality and function**

Do you value good design? The *designLINE* version of our proven die-cast connectors features an impressive and high-quality appearance. The special finish in “RAL 9006 white aluminum” gives your application an elegant and timeless look.



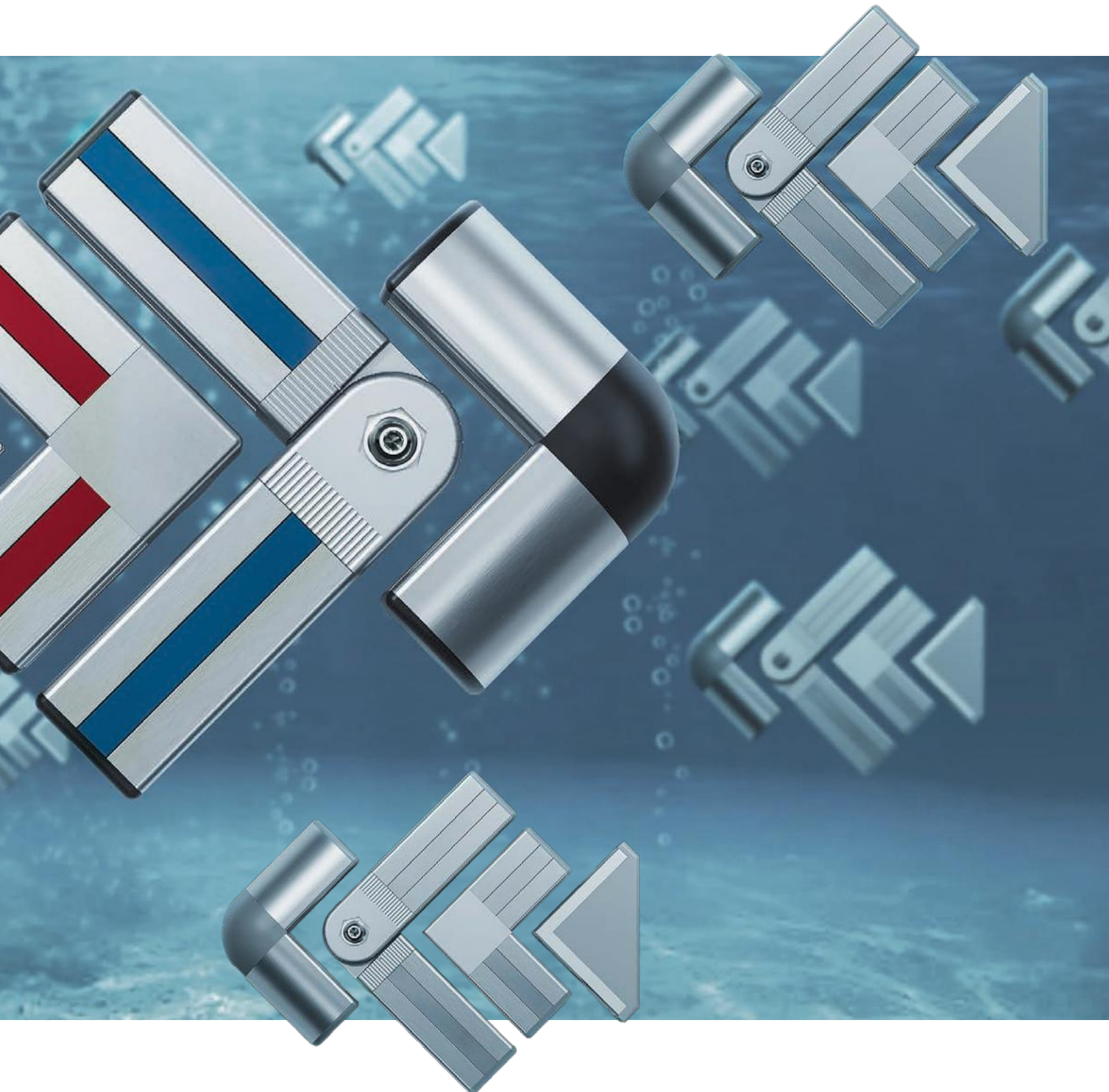
## **Signal gray**

The signal gray (RAL 7004) color variant meets the market requirement for a subtle color scheme for superstructures and thus gives the application a harmonious and understated design.



## **ESD black**

As the only modular profile system on the market, Rexroth offers all standard and ESD accessories in gray and black. The conductive plastic components can discharge voltages.



# Robust connection technology – secure and field-tested

**Bosch Rexroth has the right connection element for every application – whether rectangular, variable-angle, flexible, internal, vibration-resistant, or torsion-resistant. The sophisticated technology of the heavy-duty elements not only ensures maximum stability, but also meets the highest requirements in terms of functionality and safety, including use in ESD-sensitive areas.**



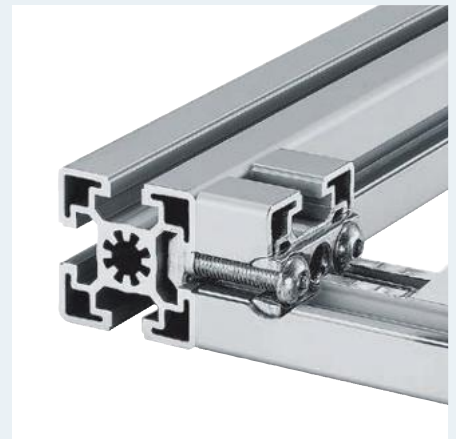
## **Bracket**

- ▶ Quick and precise installation with centering lugs – even overhead
- ▶ Plug-through screws



## **Quick connector**

- ▶ Easy and quick installation
- ▶ Free slots for panel mounting, movable on profile slot



## **Bolt connector**

- ▶ Reliable and strong connection for challenging requirements like permanent vibration or dynamic load
- ▶ High torsion resistance



### Cubic connector

- ▶ Well-designed connector with high rigidity
- ▶ Quick installation without profile preparation
- ▶ Cut-out for gap-free mounting of panel elements



### Coupling

- ▶ Well-designed corner connection without end finishing
- ▶ Lying in the slot, therefore no external interfering contour

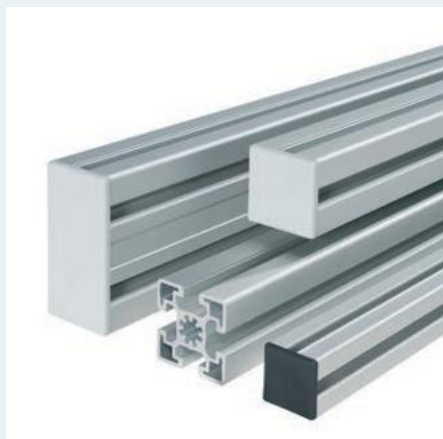


### T-connectors and end connectors

- ▶ Very high load-bearing capacity
- ▶ Exact and quick installation without profile finishing and movable on the slot

# Matching accessories – versatile, secure, and perfectly fitting

The accessories are precisely tailored to the modular profile system and can be easily attached in the profile slot or central hole. More than 1000 accessories ensure the right solution for every application.



## Cover caps

- ▶ Protection against injury at open cutting edges
- ▶ Attractive design in “signal gray” and “black ESD”



## Feet and wheels

- ▶ Secure support
- ▶ Wide range of supports and wheels



## Mounting of panel elements

- ▶ Securing of panel elements (e.g. protective pane) in the slot
- ▶ Design in compliance with Machinery Directive



### Installation elements

- ▶ Well-arranged installation of power lines
- ▶ Low-maintenance electrical installation with cable ducts and cable brackets



### Doors and fittings

- ▶ Construction of hatches and doors
- ▶ Attachment via profile slot or directly at panel element



### Manual movement

- ▶ Wide range of sliders, support wheels, etc.
- ▶ Individual solutions with standard products



**worldwide**

# Experience and expertise

Comprehensive experience, in-depth know-how, a professional worldwide network, and reliable production capacities ensure timely and speedy supply.

## Worldwide, reliable, professional

- ▶ Dealers, systems providers and regional and national subsidiaries are always near at hand for you – worldwide
- ▶ Highly efficient central warehouse in Stuttgart
- ▶ Local warehouses at Rexroth sites
- ▶ “Made to order” production capacities

## On-time, speedy supply

- ▶ All components available
- ▶ Pre-assembled modules, complete frames
- ▶ Prompt delivery and excellent adherence to deadlines

## Professional point of contact

- ▶ Personalized advice
- ▶ Comprehensive services
- ▶ Local sales partners
- ▶ Highly skilled experts



For more information, visit:  
[www.boschrexroth.com/contact](http://www.boschrexroth.com/contact)

professional

reliable

# Systematic safety – playing it safe from the start



 For more information, visit:  
[www.boschrexroth.com/aluminumprofiles](http://www.boschrexroth.com/aluminumprofiles)



## Thanks to the overall system of the Rexroth modular profile system, accident risks are avoided and safety regulations reliably complied with.

As a company, you are responsible for safety in the workplace. Rexroth components help you to reliably comply with legal regulations and various safety guidelines. Safety and quality throughout the entire product life cycle are fundamental to our business. Dealing with product liability regulations, certifications, regular inspections, verifications, and documentation is complex. We are familiar with these and would be happy to advise you.

**Standard-compliant components**

**Certified quality management**

**ESD protection for production systems**

**EcoSafe safety fences**

**Personalized advice**

# FRAMEpro – the intelligent CAD plug-in



For more information, visit:  
[www.boschrexroth.com/framepro](http://www.boschrexroth.com/framepro)



## Quick, simple, and secure construction of all types of frames.

The FRAMEpro plug-in from Bosch Rexroth integrates a complete component library with all Basic Mechanic Elements directly into Autodesk Inventor and SOLIDWORKS: Selected profiles are placed in a 3D line model before accessories are added. Intuitive user guidance and intelligent macros significantly simplify and speed up the design process. FRAMEpro automatically sets suitable connectors, adjusts profile lengths, positions holes and threads, and inserts cover caps. FRAMEpro checks designs for missing parts and generates automated parts lists.

**Efficient design directly in your familiar CAD environment without manual imports**

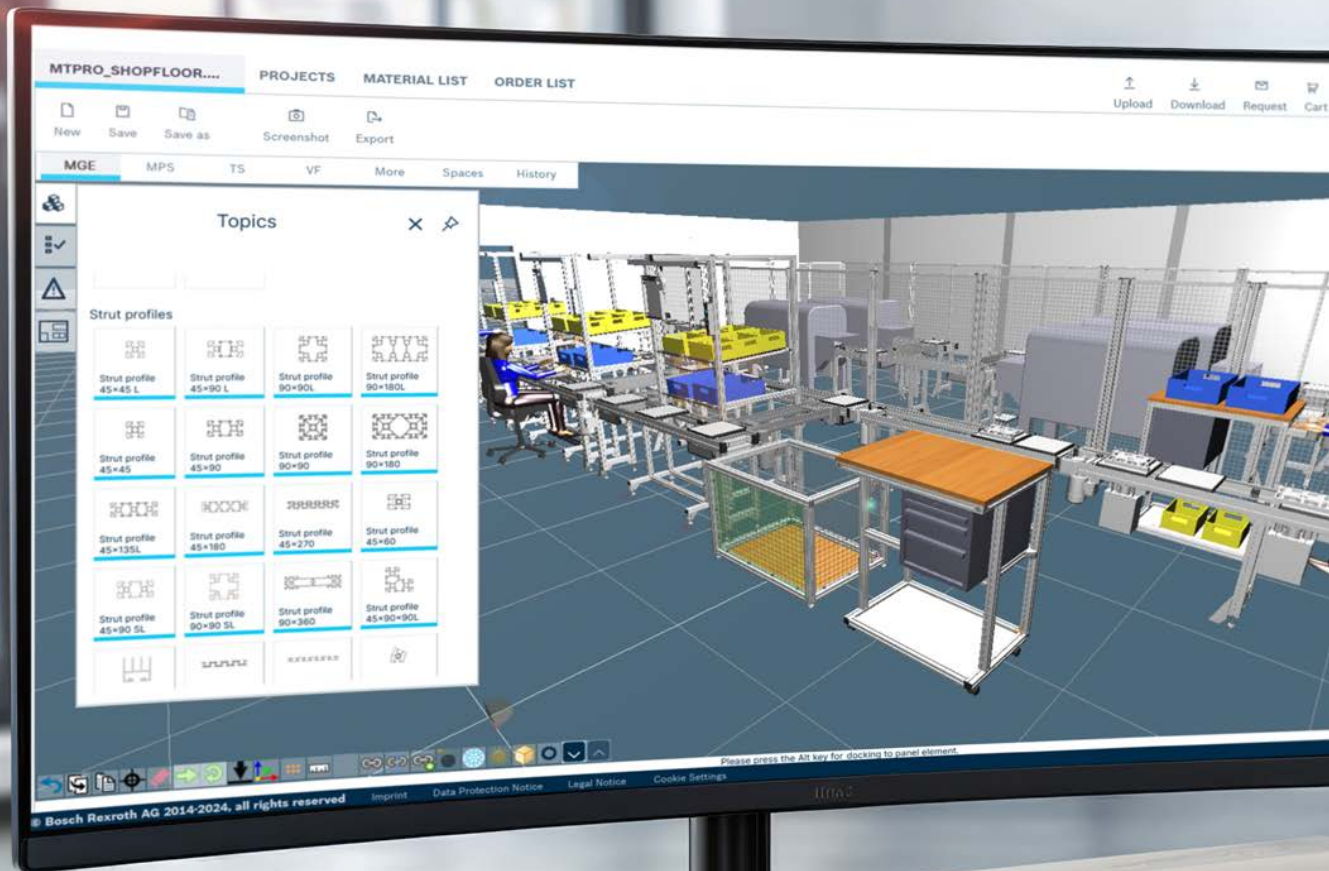
**Safe and error-free planning with 3D line models and intelligent design support functions**

**Automated order list generation and integrated ordering option**

**Fast time to market and reduced engineering costs**

**Download for free**

# Rapid planning with MTpro planning software



More information can be found at:  
[www.boschrexroth.com/mtpro](http://www.boschrexroth.com/mtpro)



## Simplify and accelerate your planning and design

MTpro is an intuitive piece of software used for planning assembly systems. It assists you from selection and configuration through to ordering components. Plan, calculate, and document your assembly systems in just a few steps with the free planning and project planning software MTpro. Design even the most complex constructions and system layouts in no time.

**Quick and simple 3D planning in the Layout Designer**

**CAD library with all product information**

**Automatic order list generation**

**Integrated ordering option**

**Direct export to various CAD formats (STEP, SAT, IGES, etc.)**

**Comprehensive courses and training videos**

**Free download and online version**

# Frame your ideas! Solutions for all sectors

**A compelling concept for providing application-oriented solutions for all sectors, from the automotive industry to logistics, automation, electronics, or exhibition stand construction.**



## **Solution #1**

Implementation of a flexible assembly line at Robert Bosch GmbH including automated stations and manual workstations



## **Solution #2**

Frame enclosure of an assembly plant for steering systems.



## **Solution #3**

A tightening station for manufacturing generators made from Rexroth aluminum profiles makes work processes easier to carry out.



## **Solution #4**

EcoSafe safety fences form an important part of the safety concept of a battery recycling plant at BLC.



# Rexroth assembly technology

**Flexible. Versatile.  
Application-oriented.**

**Workstations**

**Flow racks and material shuttles**

**Linear guides**

**Frame and plant construction**

**EcoSafe protective equipment**

**Creative profile applications**



**For more information, visit:  
[www.boschrexroth.com/assembly-technology](http://www.boschrexroth.com/assembly-technology)**

# At a glance: Assembly technology from Bosch Rexroth



## Conveying and transfer systems

Modular and flexible conveyor and transfer systems automate material flows in production, optimize production processes, and shorten throughput times. They are robust, reliable, and suitable for a wide variety of workpieces. As a result, they increase productivity and improve profitability in industries such as automotive, electronics, and pharmaceuticals.



[www.boschrexroth.com/transfer\\_systems](http://www.boschrexroth.com/transfer_systems)



## Manual Production Systems (MPS)

The manual production system enables quick and efficient adaptation of workstations and entire production lines to the work to be carried out.



[www.boschrexroth.com/mps](http://www.boschrexroth.com/mps)

# Strut profiles



Strut profiles, 6 mm slot,  
20 mm modular dimension  
(p. 2-11)



Strut profiles, 8 mm slot,  
30 mm modular dimension  
(p. 2-16)



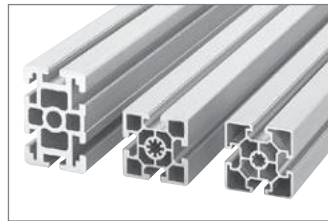
Strut profiles, 10 mm slot,  
40 mm modular dimension  
(p. 2-24)



Strut profiles, 10 mm slot,  
45 mm modular dimension  
(p. 2-37)



Strut profiles, 10 mm slot,  
50 mm modular dimension  
(p. 2-54)



Strut profiles, 10 mm slot,  
60 mm modular dimension  
(p. 2-56)



Rectangular tube (p. 2-58)  
Clamping profile (p. 2-59)  
Al angle profile 19" (p. 2-60)



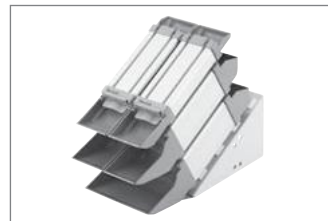
Frame profile  
22.5x30 (p. 2-61)  
22.5x45 (p. 2-62)



Angle profile (p. 2-63)  
Suspension profile (p. 2-64)  
Container mount (p. 2-65)



Slotted plate (p. 2-66)



Material chute (p. 2-67)



Profile rail (p.2-71)



Profiles for installing  
conveyor media (p. 2-72)



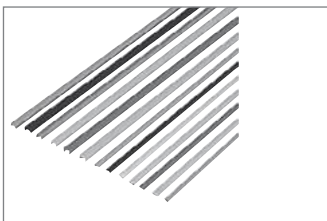
Round tube D28 (p. 2-75)  
Strut profile D28x55  
(p. 2-75)



EcoShape tubular framing  
system (p. 2-78)



Function-integrated profiles  
(p. 2-98)



Cover profiles, additional  
accessories (p. 2-93)

## Strut profiles

With more than 140 strut profiles for all types of loading, Bosch Rexroth AG offers the widest product range for different demands:

- ▶ Square and rectangular profiles
- ▶ Light profiles with optimized cross-sections
- ▶ Round profiles and profiles with smooth lateral surfaces

Connectors with high load-bearing capacities combined with ultra robust slots and large central bores make profile connections possible which can handle high static and dynamic loads.

Bosch Rexroth AG offers you six different profile ranges. All profiles within one profile range have the same slot dimensions and spacing to ensure perfect coordination during construction.

Due to their high degree of robustness, the 10 mm slotted profiles are suitable for constructions ranging from tables to heavy machine frames. They are available in four profile series with a slot spacing of 40 mm, 45 mm, 50 mm, or 60 mm.



The profiles with 8 mm and 6 mm slots are used in the assembly of lightweight equipment, partition walls, stands, or show cases.

### Profile length in profile packaging units

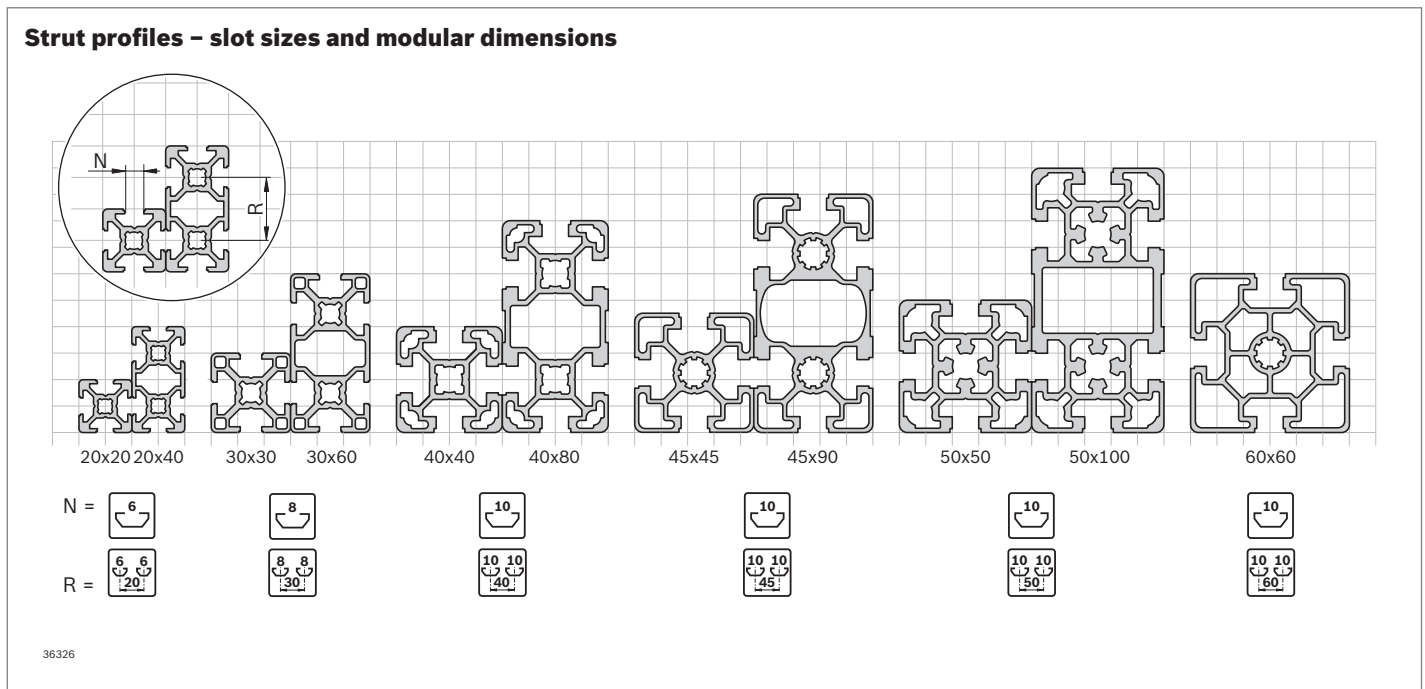
The stated length of the profile packaging units relates to the guaranteed usable length.

During anodizing as part of the manufacturing process bare areas which are approx. 30 mm long are left at each end of the profile (= contact areas), so the profiles are generally supplied incorporating an excess length of 100 mm.

Example:

45x45L	L (mm)	No.
 20 pcs 	6070	<b>3 842 553 611</b>








































**Notice:** The length dimension “L” in the table equals the usable length, whereas the actual length is approx. 100 mm longer.






























































Slot size N = 6 mm, 8 mm, 10 mm


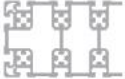























Modular dimensions R = 20 mm, 30 mm, 40 mm, 45 mm, 50 mm, 60 mm










## Technical data – profiles

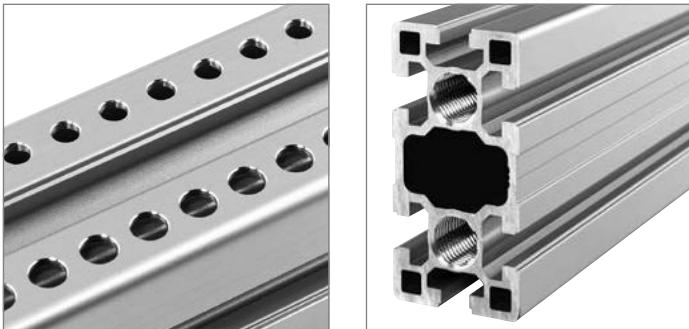
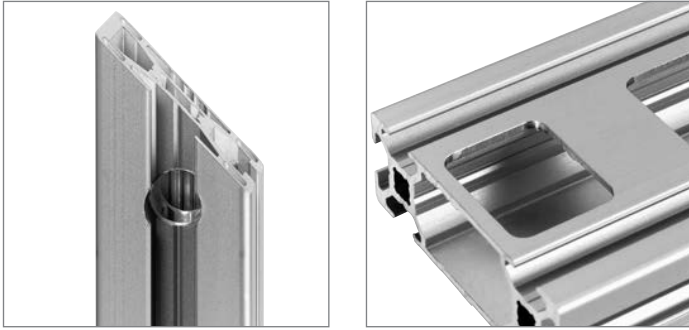
Profile	Slot	Profile surface	Moment of inertia		Moment of resistance		Torsion index		Weight m (kg/m)	Page	
			A (cm <sup>2</sup> )	I <sub>x</sub> (cm <sup>4</sup> )	I <sub>y</sub> (cm <sup>4</sup> )	W <sub>x</sub> (cm <sup>3</sup> )	W <sub>y</sub> (cm <sup>3</sup> )	I <sub>t</sub> (cm <sup>4</sup> )			W <sub>t</sub> (cm <sup>3</sup> )
20x20		6	1.6	0.7	0.7	0.7	0.7	0.08	0.17	0.4	2-12
20x20 1N		6	1.9	0.8	0.8	0.8	0.8	0.60	0.67	0.5	2-12
20x20 2N		6	1.8	0.7	0.8	0.7	0.8	0.31	0.52	0.5	2-12
20x20 2NVS		6	1.8	0.7	0.7	0.7	0.7	0.37	0.52	0.5	2-13
20x20 3N		6	1.7	0.7	0.8	0.7	0.7	0.19	0.34	0.5	2-13
20x20 R		6	1.6	0.6	0.6	0.5	0.5	0.21	0.39	0.4	2-13
20x40		6	2.9	4.6	1.2	2.5	1.4	0.68	0.91	0.8	2-14
20x60		6	3.5	14.2	1.7	4.7	1.7	2.30	2.00	0.9	2-14
20x40x40		6	4.2	6.0	6.0	2.6	2.6	1.50	1.30	1.1	2-14
10x40		6	2.1	3.2	0.2	1.6	0.4	–	–	0.6	2-15
30x30		8	3.1	2.8	2.8	1.8	1.8	0.29	0.33	0.9	2-17
30x30 1N		8	3.7	3.1	3.5	2.0	2.3	2.80	1.50	1.0	2-17
30x30 2N		8	3.5	2.8	3.5	2.1	2.7	1.50	1.20	1.0	2-17
30x30 2NVS		8	3.5	3.1	3.1	2.0	2.0	1.70	1.10	1.0	2-18
30x30 3N		8	3.3	3.1	2.8	2.3	2.1	0.86	0.73	0.9	2-18
30x30°		8	3.7	3.5	3.6	2.0	1.9	1.50	2.00	1.0	2-18
30x45°		8	4.0	3.6	5.1	2.1	2.3	2.10	2.40	1.1	2-19
30x60°		8	3.6	3.0	4.1	1.7	1.9	1.50	2.00	1.0	2-19
30x30 R		8	2.9	2.3	2.3	1.4	1.4	0.81	1.20	0.8	2-19
30x60		8	5.5	19.6	5.1	7.0	3.9	2.60	2.10	1.5	2-20
30x60 4N		8	5.8	20.2	5.5	6.7	3.8	4.80	2.40	1.6	2-20
30x60x60		8	8.2	26.2	26.2	7.6	7.6	6.40	3.60	2.2	2-20
30x90		8	7.7	60.7	7.3	13.5	4.9	5.10	3.80	2.1	2-21
30x120		8	9.9	136.3	9.6	22.7	6.4	7.60	5.60	2.7	2-21
30x45		8/10	4.0	8.1	3.9	3.9	2.9	1.30	1.30	1.1	2-22
60x60 8N		8	9.8	39.7	39.7	13.2	13.2	19.30	6.80	2.6	2-22
11x20		8	1.0	0.5	0.1	0.7	0.3	–	–	0.3	2-22
15x120		8	9.0	110.4	2.2	18.4	2.7	–	–	2.4	2-23
40x40L		10	5.6	9.1	9.1	4.5	4.5	1.30	0.74	1.5	2-26
40x40L 0N		10	6.3	10.4	10.4	5.2	5.2	10.70	4.30	1.7	2-26
40x40L 1N		10	6.1	9.8	10.3	4.7	5.1	6.90	3.70	1.7	2-26
40x40L 2N		10	6.0	9.0	10.3	4.5	5.2	4.00	3.00	1.6	2-27
40x40L 2NVS		10	6.0	9.7	9.7	4.9	4.9	4.50	2.70	1.6	2-27
40x40L 3N		10	5.8	9.7	9.0	4.8	4.5	2.60	1.70	1.6	2-27
40x30°		10	6.2	9.4	11.8	4.7	5.9	3.00	3.10	1.7	2-28
40x45°		10	6.8	9.9	16.6	5.0	8.3	4.20	3.70	1.8	2-28
40x60°		10	6.3	8.7	13.1	4.3	6.5	3.00	3.10	1.7	2-28
40x40L R		10	5.0	7.2	7.2	3.6	3.6	2.50	2.00	1.3	2-29
40x40 HR		10	5.5	8.1	7.6	4.0	3.6	4.60	2.80	1.5	2-29

Profile	Slot	Profile surface	Moment of inertia		Moment of resistance		Torsion index		Weight m (kg/m)	Page	
			A (cm <sup>2</sup> )	I <sub>x</sub> (cm <sup>4</sup> )	I <sub>y</sub> (cm <sup>4</sup> )	W <sub>x</sub> (cm <sup>3</sup> )	W <sub>y</sub> (cm <sup>3</sup> )	I <sub>t</sub> (cm <sup>4</sup> )			W <sub>t</sub> (cm <sup>3</sup> )
40x80L		10	9.9	63.4	17.3	15.9	8.7	8.02	4.80	2.7	2-30
40x80L 2N		10	10.9	66.6	20.8	16.6	10.4	22.40	7.58	2.9	2-30
40x80L 4N		10	10.4	65.2	19.1	16.3	9.9	13.30	4.40	2.8	2-30
40x80L 2NVS		10	10.7	67.8	19.0	17.0	9.5	19.24	7.55	2.9	2-31
40x80L 3NVS		10	10.6	67.8	19.0	17.0	9.5	15.90	5.20	2.9	2-31
40x80x80L		10	15.4	96.6	96.6	24.2	24.2	19.60	9.80	4.2	2-31
40x120L		10	15.5	203.2	27.8	33.9	13.9	17.20	10.00	4.2	2-32
40x120L 5N		10	15.8	212.4	30.1	35.3	15.5	-	-	4.3	2-32
40x160L		10	20.5	466.7	37.2	58.3	18.6	25.80	14.60	5.5	2-33
80x80L		10	18.2	132.1	132.1	33.0	33.0	59.80	17.20	4.9	2-34
80x80L 4N		10	19.1	142.5	142.5	35.6	35.6	83.90	15.4	5.2	2-34
80x80L 4NVS		10	19.3	142.5	142.5	35.6	35.6	92.00	16.80	5.2	2-35
80x80L 6N		10	18.8	134.1	140.9	33.5	36.2	72.60	15.00	5.1	2-35
40x120x120L		10	24.6	318.0	318.0	42.2	42.2	37.10	19.00	6.7	2-35
80x120L		10	25.6	389.2	192.8	64.9	48.2	119.00	29.10	6.9	2-36
80x160L		10	32.9	850.7	253.4	106.3	63.4	182.00	41.10	8.9	2-36
45x45L		10	6.0	11.7	11.7	5.2	5.2	1.46	0.75	1.6	2-37
45x45L 0N		10	6.7	13.5	13.5	6.0	6.0	16.20	6.10	1.8	2-37
45x45L 1N		10	6.5	12.6	13.5	5.5	6.0	10.00	5.20	1.8	2-38
45x45L 2N		10	6.4	11.6	13.5	5.2	6.0	5.50	4.30	1.7	2-38
45x45L 2NVS		10	6.4	12.6	12.6	5.6	5.6	6.30	3.80	1.7	2-38
45x45L 3N		10	6.2	12.6	11.7	5.4	5.2	3.40	2.40	1.7	2-39
45x30°		10	6.9	12.7	15.2	5.0	5.3	6.60	5.70	1.9	2-39
45x45°		10	7.6	13.4	21.4	5.2	6.4	9.00	6.80	2.0	2-39
45x60°		10	6.8	11.4	16.9	4.4	5.2	6.80	4.30	1.8	2-40
45x45L R		10	4.9	8.6	8.6	5.0	5.0	3.30	2.80	1.3	2-40
45x45HR		10	6.6	11.0	10.7	4.8	4.4	7.60	3.40	1.8	2-40
45x45		10	7.5	13.8	13.8	6.1	6.1	2.65	0.96	2.0	2-41
45x60		10	11.0	37.2	22.7	12.4	10.1	6.70	4.09	3.0	2-42
45x90SL		10	9.0	73.4	18.1	16.3	8.0	8.57	4.00	2.4	2-42

Profile		Slot	Profile surface	Moment of inertia		Moment of resistance		Torsion index		Weight m (kg/m)	Page	
				A (cm <sup>2</sup> )	I <sub>x</sub> (cm <sup>4</sup> )	I <sub>y</sub> (cm <sup>4</sup> )	W <sub>x</sub> (cm <sup>3</sup> )	W <sub>y</sub> (cm <sup>3</sup> )	I <sub>t</sub> (cm <sup>4</sup> )			W <sub>t</sub> (cm <sup>3</sup> )
45x90L		10		11.3	82.0	23.6	18.2	10.5	15.10	4.40	3.0	2-43
45x90L 2N		10		12.0	85.6	26.9	38.1	6.0	31.70	7.70	3.2	2-21
45x90L 2NVS		10		12.0	90.6	25.9	40.3	5.7	23.34	9.65	3.3	2-44
45x90L 3NVS		10		11.8	87.2	25.2	38.8	5.6	25.70	6.60	3.2	2-44
45x90L 4N		10		11.6	83.6	25.2	18.6	10.9	27.61	6.08	3.2	2-45
45x135L		10		16.8	267.4	36.2	39.6	16.1	29.50	8.20	4.6	2-45
45x135L 5N		10		17.3	274.4	38.6	40.7	17.6	32.50	10.90	4.7	2-45
45x90		10		15.4	124.6	32.8	27.7	14.6	15.40	6.61	4.2	2-46
45x180		10		25.5	766.7	57.3	85.2	25.5	44.40	17.00	6.9	2-46
45x270		10		61.9	3962.0	118.0	300.2	61.6	-	-	16.7	2-47
45x90x90L		10		21.2	152.1	152.1	19.1	19.1	34.90	11.60	5.7	2-47
45x90x90L 4N		10		22.1	160.8	160.8	30.6	30.6	65.30	17.20	6.0	2-48
90x90SL		10		14.1	130.2	130.2	28.9	28.9	42.50	13.90	3.8	2-48
90x90L		10		24.1	211.1	211.1	46.9	46.9	82.10	20.10	6.5	2-48
90x90L 4N		10		24.2	227.4	214.7	50.5	47.7	122.00	22.20	6.5	2-49
90x90L 4NVS		10		24.2	220.9	220.9	49.2	49.2	127.00	22.00	6.5	2-49
90x90		10		38.4	299.8	299.8	66.7	66.7	118.60	26.00	10.4	2-49
90x135L		10		32.9	629.4	305.2	93.3	67.8	163.70	39.6	8.9	2-50
90x180L		10		42.8	1380.0	401.0	153.3	89.1	257.00	47.10	11.6	2-51
90x180		10		63.6	2138.3	544.3	237.6	121.0	429.00	64.00	17.2	2-51
90x360		10		90.2	14065.0	710.0	781.4	157.7	937.10	117.60	24.4	2-52
15x22.5		10		1.3	0.8	0.3	0.9	0.6	-	-	0.3	2-52
15x180		10		11.6	321.7	3.2	35.7	4.2	-	-	3.1	2-53
22.5x45		10		4.7	7.1	2.9	3.2	2.6	-	-	1.3	2-53
22.5x180		10		21.6	581.0	11.8	66.8	14.7	-	-	5.8	2-53
50x50L		10		9.3	21.2	21.2	8.5	8.5	5.37	4.30	2.5	2-54
50x100L		10		17.2	162.8	42.6	32.6	17.0	29.43	10.70	4.6	2-54
50x150L		10		25.8	540.0	64.2	72.0	25.7	52.10	20.50	6.9	2-55

Profile	Slot	Profile surface	Moment of inertia		Moment of resistance		Torsion index		Weight m (kg/m)	Page	
			A (cm <sup>2</sup> )	I <sub>x</sub> (cm <sup>4</sup> )	I <sub>y</sub> (cm <sup>4</sup> )	W <sub>x</sub> (cm <sup>3</sup> )	W <sub>y</sub> (cm <sup>3</sup> )	I <sub>t</sub> (cm <sup>4</sup> )			W <sub>t</sub> (cm <sup>3</sup> )
<b>100x100L</b>		10	29.9	318.3	318.3	63.7	63.7	153.53	31.40	8.1	2-55
<b>100x200L</b>		10	54.0	2133.1	602.1	213.3	120.4	421.00	75.70	14.6	2-56
<b>60x60L</b>		10	9.6	32.4	32.4	10.8	10.8	13.20	8.70	2.6	2-56
<b>60x60</b>		10	14.4	52.2	52.2	17.4	17.4	15.90	8.80	3.9	2-57
<b>60x90</b>		10	25.8	214.2	90.5	47.6	30.2	45.80	18.00	7.0	2-57
<b>50x50 Rectangular tube</b>		10	4.5	15.1	15.1	5.7	5.7	-	-	1.2	2-58
<b>Frame profile 22.5x30</b>		10	3.2	1.7	3.0	1.5	2.0	-	-	0.9	2-61
<b>Frame profile 22.5x45</b>		10	3.4	6.7	1.7	2.8	1.3	-	-	0.9	2-62
<b>Angle profile</b>		10	4.5	8.8	6.9	3.2	2.3	-	-	1.2	2-63
<b>Suspension profile</b>		8	2.0	2.0	0.5	2.7	0.3	-	-	0.6	2-64
<b>30x100 L/R Slotted plate</b>		10	9.7	88.8	9.2	17.8	6.0	-	-	2.6	2-66
<b>30x100 M Slotted plate</b>		10	9.7	88.8	9.2	17.8	6.0	-	-	2.6	2-66
<b>Profile rail 30x45C</b>		10	4.4	10.3	5.6	4.2	3.7	-	-	1.2	2-71
<b>U-profile</b>		10	4.4	10.4	8.3	4.6	4.1	-	-	1.2	2-72
<b>SP 2/R</b>		8	5.2	4.3	11.7	2.4	5.2	-	-	1.4	2-72
<b>SP 2/B</b>		10	10.4	49.6	25.8	12.1	11.5	-	-	2.8	2-73
<b>SP 2/B-50</b>		8/10	6.9	16.1	16.9	5.3	7.5	-	-	1.9	2-73
<b>SP 2/B-100</b>		10	11.9	95.1	30.4	20.0	13.5	-	-	3.2	2-73
<b>SP 2/BH</b>		10	12.4	53.7	28.6	14.0	13.8	-	-	3.3	2-74
<b>D28</b>			2.4	1.5	1.5	1.1	1.1	-	-	0.7	2-76
<b>D28x55</b>			5.9	3.2	88.3	2.3	32.1	-	-	1.6	2-77
<b>D28L</b>			1.8	1.3	1.3	1.0	1.0	-	-	0.5	2-80
<b>D28L; N10</b>			2.6	1.0	2.0	1.4	0.8	-	-	0.7	2-80
<b>60x120 Cable guide profile</b>		10	14.9	31.2	232.5	7.8	38.7	-	-	4.0	2-100
<b>120x120 Cable guide profile</b>		10	21.9	211.3	412.5	24.7	68.4	-	-	5.9	2-101

Profile	Slot	Profile surface	Moment of inertia		Moment of resistance		Torsion index		Weight m (kg/m)	Page		
			A (cm <sup>2</sup> )	I <sub>x</sub> (cm <sup>4</sup> )	I <sub>y</sub> (cm <sup>4</sup> )	W <sub>x</sub> (cm <sup>3</sup> )	W <sub>y</sub> (cm <sup>3</sup> )	I <sub>t</sub> (cm <sup>4</sup> )			W <sub>t</sub> (cm <sup>3</sup> )	
<b>120x120 6N Cable guide profile</b>			10	23.9	366.4	457.4	50.5	70.5	-	-	6.5	2-101
<b>40x120x120 Cable guide profile</b>			10	27.2	411.7	411.7	54.8	54.8	-	-	7.3	2-102
<b>Frame profile 30x30 WG30</b>			8	3.2	2.5	3.0	1.6	1.9	-	-	0.9	10-28
<b>Frame profile 30x30 WG40</b>			8	3.2	2.4	2.9	1.5	1.8	-	-	0.9	10-28
<b>Frame profile 30x45 WG30</b>			8	4.5	7.3	4.2	3.2	2.7	-	-	1.2	10-28
<b>Frame profile 30x45 WG40</b>			8	4.5	6.9	4.1	4.3	1.8	-	-	1.2	10-28
<b>Frame profile 22.5x45 PG</b>			10	3.4	6.3	1.9	2.7	1.7	-	-	0.9	10-32
<b>Frame profile 45x45 PG</b>			10	5.5	11.1	11.7	4.7	5.2	-	-	1.5	10-42
<b>Section profile MV45x45</b>			10	6.2	11.8	10.5	5.3	4.7	-	-	1.7	12-27



## Profile finishing

Profile finishing is required whenever interlocking connectors are used. For instance, holes need to be drilled for bolt connectors or threads need to be cut into central hole. This requires machining with standard dimensions. However, individual customer requirements can only be satisfied by customized profile finishing for all points along the profile.

Rexroth enables even these complex requirements to be met as standard. This is because we offer three options for ordering the right profile finishing:

### Standard profile finishing with fixed material numbers

For certain profiles, you can receive selected profile finishing with a fixed material number. This is the easiest way to order the appropriate profile finishing for our proven interlocking profile connectors.

The available profile finishing is shown in pictograms in the order tables.

### Quick & Easy – standard profile finishing

All profile finishing with standard dimensions: available for all profiles thanks to simple configuration with Quick & Easy.


For more information on the available profile finishing, see page 18-2 onwards as well as the fold-out section at the end of the catalog.

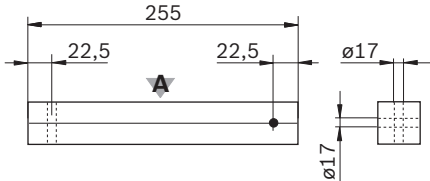
### Quick & Easy – individual profile finishing

Get the greatest possible flexibility in defining your profile finishing. Individual finishing options can be achieved in virtually any combination and nearly every point along the profile.

For more information, see page 18-2 onwards as well as the fold-out section at the end of the catalog.

**Example: 40x40L**

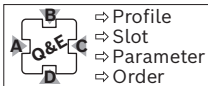
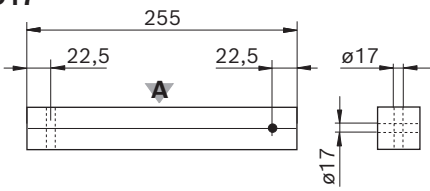
3 842 993 126 / 255 D17  D17V



00133799

**Example: 40x40L 2N**

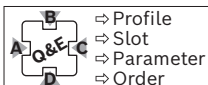
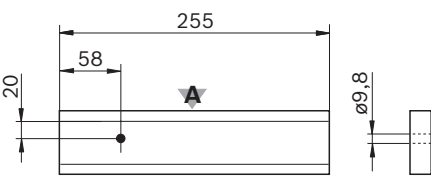
3 842 993 720 / 255 / A=D17/-; B=-/D17

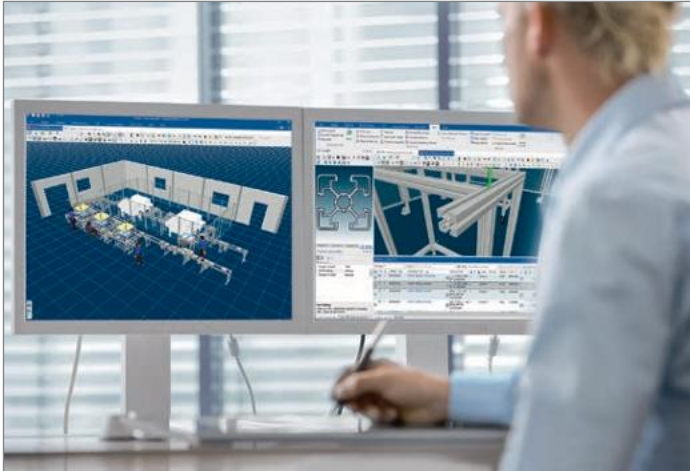
00133800

**Example: 20x60**

3 842 993 698 / 255 / [B=D1; PS=58; OS=20; DM=9,8]

00133801



**MTpro, FRAMEpro and Rexroth Store – software tools for designers, planners, and buyers**

Quick & Easy is supported by the project planning tools *MTpro* and *FRAMEpro* as well as the profile configurator in the Rexroth Store.

We offer:

- ▶ Tool-based design and configuration
- ▶ Automated generation of profile finishings
- ▶ Generation of 3D CAD models for designers
- ▶ Dimension drawings at the press of a button
- ▶ Automatic parts lists for ordering in the Rexroth Store

**45x90L**  
**3 842 993 662**

<b>3 842 993 662</b>	/ 393	/ B = D17/-
Material number	Length	Standard finish Through-hole D17 in slot B

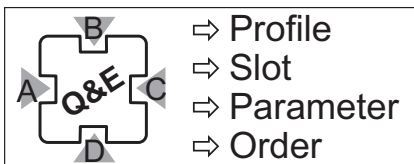
**Quick & Easy – four steps for simple ordering**

The type of profile finishing is defined in an order key; all finishes for a profile can be summarized in one order key.

1. Select profile cross-section and length
2. Specify slot for finishing:  
all profile slots are identified by letters (A; B; C; ...) – ascending in clockwise direction (see profile dimension drawings)
3. Define the parameters:
  - Type of finishing (drilling, milling, miter cutting)
  - Distance from profile end
4. Place order:  
Conventionally by fax or, preferably online in our eShop

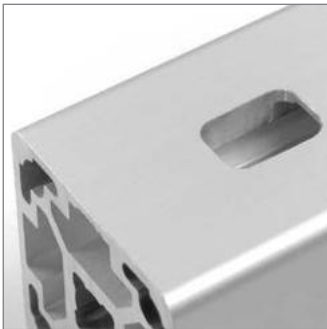
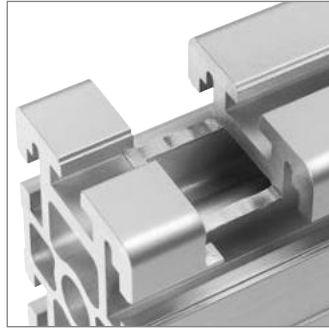
**Logical structure of the order key**

Material number / length / [slot designation = finishing; parameter set]



**Notice:**

For a detailed description of the order key, please refer to page 18-2 onwards



## Profile finishing

Rexroth offers numerous connection options for putting strut profiles together. The wide variety of connector types is due to the differing demands made of the applications:

- ▶ Right-angled
- ▶ Variable-angle
- ▶ Internal
- ▶ Torsion-resistant
- ▶ Vibration-resistant
- ▶ With or without profile finishing

If you require a finished profile, it can be provided for you in an installation-ready form.

When you select the corresponding material number the profile is provided in cut, burr-free form, or alternatively fully finished with drilled holes or threads. This eliminates risk for you and reduces your production workload.

If you wish to undertake the finishing yourself, here are a few tips:

### Saw and saw blade

Segmental metal circular saw blade, carbide-tipped

Number of teeth: 92 or 96

Rotational speed: at least 2500 rpm

### Finishing of central holes

As a rule, the threads can be directly formed and cut, but countersinks facilitate their production. The central holes of the strut profiles are designed for the following thread manufacturing processes.

Threads	Finishing	Notices
M6	Thread forming	-
M8	Thread forming	-
M12	Thread cutting	-
M16	Thread forming	Pre-drilling in some cases

### Drilling jigs

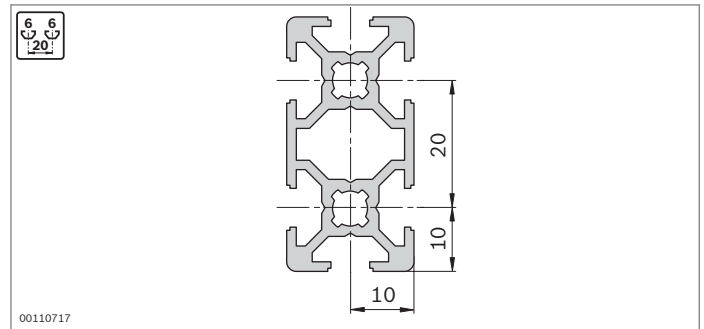
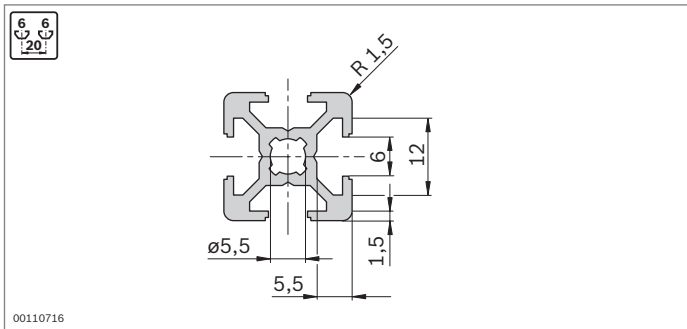
In the tools section you will find useful drilling jigs for the Rexroth standard finishes (p. 14-2).

# Strut profiles with 6 mm slot

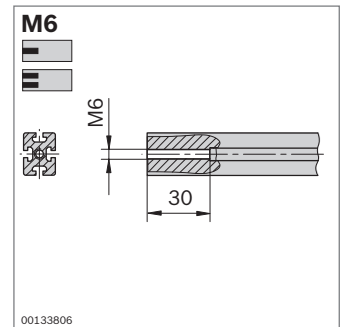
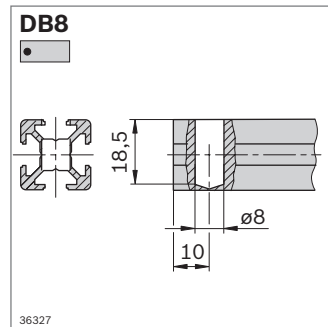
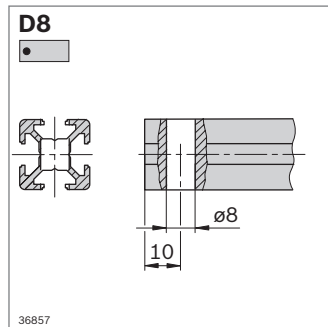
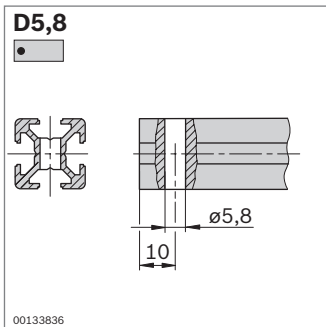
Strut profiles with 6 mm slot for light structures, such as supports and lab fixtures.

The 20x40 and 20x60 profiles are especially suitable for reinforcing; the 20x40x40 profile is suitable for constructing showcases, flow racks, and enclosures.

## Slot, modular dimensions, central bore



## Profile finishing



## Minimum profile lengths (mm) for Quick & Easy standard profile finishing on one or both sides

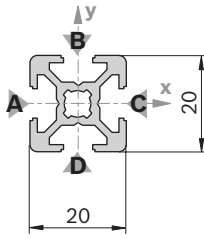
	-	M6	D5.8	D8/DB8
-	50	50	50	50
M6	50	70	50	70
D5.8	50	50	50	50
D8/DB8	50	70	50	50

## Reduced maximum profile lengths $L_{max i}$ with individual profile finishing

$L_{max}$ (mm)	$L_{max i}$ (mm)
6070	5400
3000	2300
2000	1300

**20x20**

A = 1,6 cm<sup>2</sup>  
 $I_x = 0,7 \text{ cm}^4$   
 $I_y = 0,7 \text{ cm}^4$   
 $W_x = 0,7 \text{ cm}^3$   
 $W_y = 0,7 \text{ cm}^3$   
 m = 0,4 kg/m

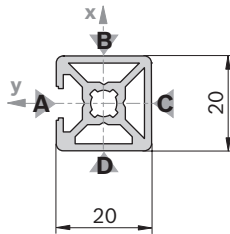


19168

Cover cap	Color	ESD	No.
20x20 (1x)	Signal gray		100 <b>3 842 548 742</b>
20x20 (1x)	Black		20 <b>3 842 548 743</b>
Material:	PP		

**20x20 1N**

A = 1,9 cm<sup>2</sup>  
 $I_x = 0,8 \text{ cm}^4$   
 $I_y = 0,8 \text{ cm}^4$   
 $W_x = 0,8 \text{ cm}^3$   
 $W_y = 0,8 \text{ cm}^3$   
 m = 0,5 kg/m

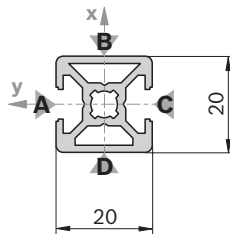


19169

Cover cap: see 20x20

**20x20 2N**

A = 1,8 cm<sup>2</sup>  
 $I_x = 0,7 \text{ cm}^4$   
 $I_y = 0,8 \text{ cm}^4$   
 $W_x = 0,7 \text{ cm}^3$   
 $W_y = 0,8 \text{ cm}^3$   
 m = 0,5 kg/m



19170

Cover cap: see 20x20

20x20	L (mm)	No.
1 pc	50 ... 3000	<b>3 842 992 888 / L</b>
1 pc M6	50 ... 3000	<b>3 842 993 230 / L</b>
1 pc M6  M6	70 ... 3000	<b>3 842 993 231 / L</b>
1 pc M6  D8	70 ... 3000	<b>3 842 993 494 / L</b>
1 pc D8	50 ... 3000	<b>3 842 993 493 / L</b>
1 pc D8  D8	50 ... 3000	<b>3 842 993 495 / L</b>
1 pc D8  D8V	50 ... 3000	<b>3 842 993 496 / L</b>
1 pc	3000	<b>3 842 517 173</b>
20 pcs	3000	<b>3 842 517 179</b>

Quick & Easy (p. 2-8, see fold-out section)

20x20	3 842 993 694 / ...
Length L (mm)	50 ... 3000
Standard profile finishing (note minimum length, p. 2-11)	M6 / D5.8 / D8 / DB8
Individual profile finishing ( $L_{max i} = 2300 \text{ mm}$ )	DI / DIS / MT / MTS / MI / MIS / DG <sup>1)</sup>
1) $DG_{max} = 45^\circ$ ; $L_{min1} / L_{min2} = 335 / 370 \text{ mm}$	

20x20 1N	L (mm)	No.
1 pc	50 ... 3000	<b>3 842 993 421 / L</b>
1 pc	3000	<b>3 842 536 476</b>
20 pcs	3000	<b>3 842 536 475</b>

Quick & Easy (p. 2-8, see fold-out section)

20x20 1N	3 842 993 690 / ...
Length L (mm)	50 ... 3000
Standard profile finishing (note minimum length, p. 2-11)	M6 / D5.8 / D8 / DB8
Individual profile finishing ( $L_{max i} = 2300 \text{ mm}$ )	DI / DIS / MT / MTS / MI / MIS / DG <sup>1)</sup>
1) $DG_{max} = 45^\circ$ ; $L_{min1} / L_{min2} = 335 / 370 \text{ mm}$	

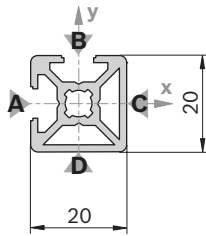
20x20 2N	L (mm)	No.
1 pc	50 ... 3000	<b>3 842 993 422 / L</b>
1 pc	3000	<b>3 842 536 479</b>
20 pcs	3000	<b>3 842 536 478</b>

Quick & Easy (p. 2-8, see fold-out section)

20x20 2N	3 842 993 691 / ...
Length L (mm)	50 ... 3000
Standard profile finishing (note minimum length, p. 2-11)	M6 / D5.8 / D8 / DB8
Individual profile finishing ( $L_{max i} = 2300 \text{ mm}$ )	DI / DIS / MT / MTS / MI / MIS / DG <sup>1)</sup>
1) $DG_{max} = 45^\circ$ ; $L_{min1} / L_{min2} = 335 / 370 \text{ mm}$	

**20x20 2NVS**

A = 1,8 cm<sup>2</sup>  
 $I_x = 0,7 \text{ cm}^4$   
 $I_y = 0,7 \text{ cm}^4$   
 $W_x = 0,7 \text{ cm}^3$   
 $W_y = 0,7 \text{ cm}^3$   
 m = 0,5 kg/m



19171

Cover cap: see 20x20

20x20 2NVS	L (mm)	No.
1 pc	50 ... 3000	<b>3 842 992 924 / L</b>
1 pc	3000	<b>3 842 519 657</b>
20 pcs	3000	<b>3 842 519 658</b>

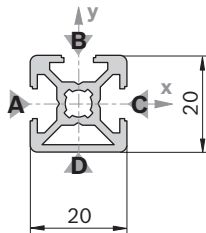
**Quick & Easy** (p. 2-8, see fold-out section)

20x20 2NVS	3 842 993 692 / ....
Length L (mm)	50 ... 3000
Standard profile finishing	M6 / D5.8 / D8 / DB8
(note minimum length, p. 2-11)	
Individual profile finishing	DI / DIS / MT / MTS / MI / MIS / DG <sup>1)</sup>
(L <sub>max i</sub> = 2300 mm)	

<sup>1)</sup> DG<sub>max</sub> = 45°; L<sub>min1</sub> / L<sub>min2</sub> = 335 / 370 mm

**20x20 3N**

A = 1,7 cm<sup>2</sup>  
 $I_x = 0,7 \text{ cm}^4$   
 $I_y = 0,8 \text{ cm}^4$   
 $W_x = 0,7 \text{ cm}^3$   
 $W_y = 0,7 \text{ cm}^3$   
 m = 0,5 kg/m



19172

Cover cap: see 20x20

20x20 3N	L (mm)	No.
1 pc	50 ... 3000	<b>3 842 992 889 / L</b>
1 pc	3000	<b>3 842 517 174</b>
20 pcs	3000	<b>3 842 517 180</b>

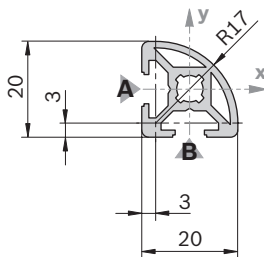
**Quick & Easy** (p. 2-8, see fold-out section)

20x20 3N	3 842 993 693 / ...
Length L (mm)	50 ... 3000
Standard profile finishing	M6 / D5.8 / D8 / DB8
(note minimum length, p. 2-11)	
Individual profile finishing	DI / DIS / MT / MTS / MI / MIS / DG <sup>1)</sup>
(L <sub>max i</sub> = 2300 mm)	

<sup>1)</sup> DG<sub>max</sub> = 45°; L<sub>min1</sub> / L<sub>min2</sub> = 335 / 370 mm

**20x20 R**

A = 1,6 cm<sup>2</sup>  
 $I_x = 0,6 \text{ cm}^4$   
 $I_y = 0,6 \text{ cm}^4$   
 $W_x = 0,5 \text{ cm}^3$   
 $W_y = 0,5 \text{ cm}^3$   
 m = 0,4 kg/m



19173

Cover cap	Color	ESD	No.
20x20 R (1x)	Signal gray	20	<b>3 842 548 826</b>
20x20 R (1x)	Black	20	<b>3 842 548 827</b>

Material: PP

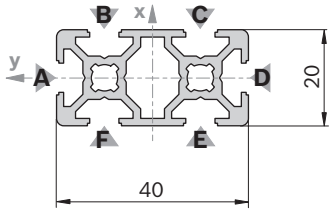
20x20 R	L (mm)	No.
1 pc	50 ... 3000	<b>3 842 992 890 / L</b>
1 pc	3000	<b>3 842 517 177</b>
20 pcs	3000	<b>3 842 517 183</b>

**Quick & Easy** (p. 2-8, see fold-out section)

20x20 R	3 842 993 695 / ....
Length L (mm)	50 ... 3000
Standard profile finishing	M6
(note minimum length, p. 2-11)	
Individual profile finishing	—
(L <sub>max i</sub> = 2300 mm)	

**20x40**

A = 2,9 cm<sup>2</sup>  
 $I_x = 4,6 \text{ cm}^4$   
 $I_y = 1,2 \text{ cm}^4$   
 $W_x = 2,5 \text{ cm}^3$   
 $W_y = 1,4 \text{ cm}^3$   
 m = 0,8 kg/m



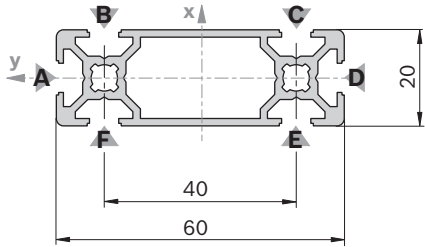
19174

Cover cap	Color	ESD	No.
20x20 (2x)	Signal gray	100	3 842 548 742
20x20 (2x)	Black	20	3 842 548 743

Material: PP

**20x60**

A = 3,5 cm<sup>2</sup>  
 $I_x = 14,2 \text{ cm}^4$   
 $I_y = 1,7 \text{ cm}^4$   
 $W_x = 4,7 \text{ cm}^3$   
 $W_y = 1,7 \text{ cm}^3$   
 m = 0,9 kg/m



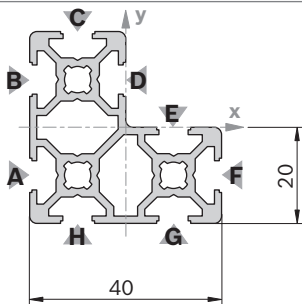
19175

Cover cap	Color	ESD	No.
20x60 (1x)	Signal gray	20	3 842 548 828
20x60 (1x)	Black	20	3 842 548 829

Material: PP

**20x40x40**

A = 4,2 cm<sup>2</sup>  
 $I_x = 6,0 \text{ cm}^4$   
 $I_y = 6,0 \text{ cm}^4$   
 $W_x = 2,6 \text{ cm}^3$   
 $W_y = 2,6 \text{ cm}^3$   
 m = 1,1 kg/m



19176

Cover cap	Color	ESD	No.
20x20 (3x)	Signal gray	100	3 842 548 742
20x20 (3x)	Black	20	3 842 548 743

Material: PP

20x40	L (mm)	No.
1 pc	50 ... 3000	3 842 992 891 / L
1 pc D8	50 ... 3000	3 842 993 497 / L
1 pc D8	50 ... 3000	3 842 993 499 / L
1 pc D8	50 ... 3000	3 842 993 500 / L
1 pc D8V	50 ... 3000	3 842 993 498 / L
1 pc D8V	50 ... 3000	3 842 993 501 / L
1 pc	3000	3 842 517 178
24 pcs	3000	3 842 537 816

Profile finishing: D8: in slots B/F, C/E  
 D8V: in slots A/D

Quick & Easy (p. 2-8, see fold-out section)

20x40	3 842 993 696 / ...
Length L (mm)	50 ... 3000
Standard profile finishing (note minimum length, p. 2-11)	M6 / D5.8 / D8 / DB8
Individual profile finishing ( $L_{max i} = 2300 \text{ mm}$ )	DI / DIS / MT / MTS / MI / MIS / DG <sup>1)</sup>

<sup>1)</sup> DG<sub>max</sub> = 45°; L<sub>min1</sub> / L<sub>min2</sub> = 370 / 440 mm

20x60	L (mm)	No.
1 pc	50 ... 3000	3 842 992 992 / L
1 pc	3000	3 842 523 239
16 pcs	3000	3 842 537 819

Quick & Easy (p. 2-8, see fold-out section)

20x60	3 842 993 698 / ...
Length L (mm)	50 ... 3000
Standard profile finishing (note minimum length, p. 2-11)	M6 / D5.8 (B,C,E,F) <sup>1)</sup> / D8 (B,C,E,F) <sup>1)</sup> / DB8
Individual profile finishing ( $L_{max i} = 2300 \text{ mm}$ )	DI / DIS / MT / MTS / MI / MIS / DG <sup>2)</sup>

<sup>1)</sup> For the specified slots

<sup>2)</sup> DG<sub>max</sub> = 45°; L<sub>min1</sub> / L<sub>min2</sub> = 404 / 508 mm

20x40x40	L (mm)	No.
1 pc	50 ... 3000	3 842 992 991 / L
1 pc	3000	3 842 523 241
16 pcs	3000	3 842 537 818

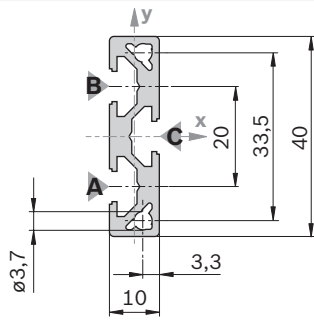
Quick & Easy (p. 2-8, see fold-out section)

20x40x40	3 842 993 697 / ...
Length L (mm)	50 ... 3000
Standard profile finishing (note minimum length, p. 2-11)	M6 / D5.8 / D8 / DB8
Individual profile finishing ( $L_{max i} = 2300 \text{ mm}$ )	DI / DIS / MT / MTS / MI / MIS / DG <sup>1)</sup>

<sup>1)</sup> DG<sub>max</sub> = 45°; L<sub>min1</sub> / L<sub>min2</sub> = 370 / 440 mm

**10x40**

A = 2,1 cm<sup>2</sup>  
 I<sub>x</sub> = 3,2 cm<sup>4</sup>  
 I<sub>y</sub> = 0,2 cm<sup>4</sup>  
 W<sub>x</sub> = 1,6 cm<sup>3</sup>  
 W<sub>y</sub> = 0,4 cm<sup>3</sup>  
 m = 0,6 kg/m



Cover cap	Color	ESD	No.
10x40 (1x)	Signal gray	20	3 842 548 766
10x40 (1x)	Black	20	3 842 548 767

Material: PP

10x40	L (mm)	No.
1 pc	50 ... 3000	3 842 993 077 / L
1 pc	3000	3 842 526 816
10 pcs	3000	3 842 526 817

Quick & Easy (p. 2-8, see fold-out section)

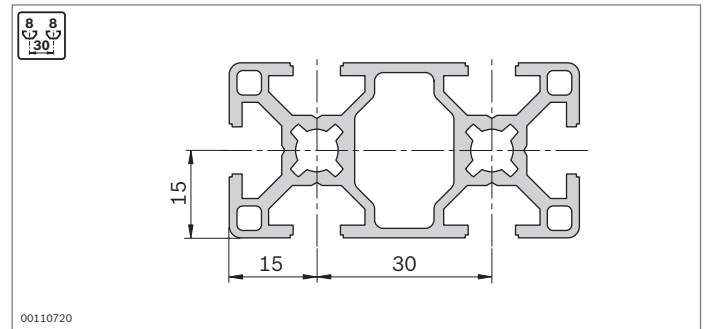
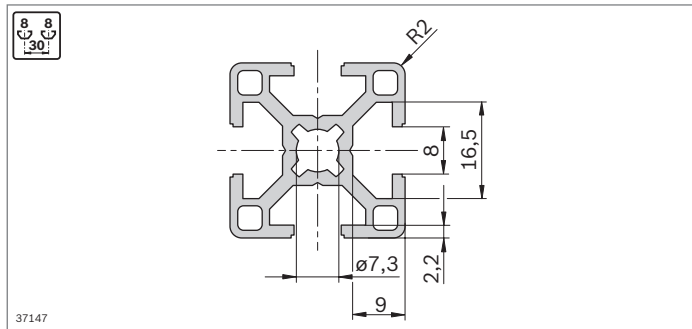
10x40	3 842 993 683 / ...
Length L (mm)	50 ... 3000
Standard profile finishing (note minimum length, p. 2-11)	D5.8 / D8
Customized profile finishing	—

# Strut profiles with 8 mm slot

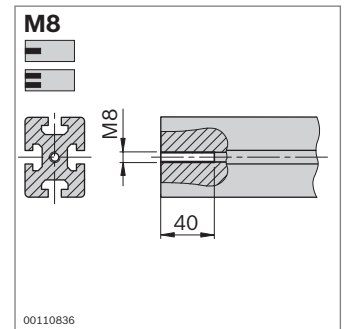
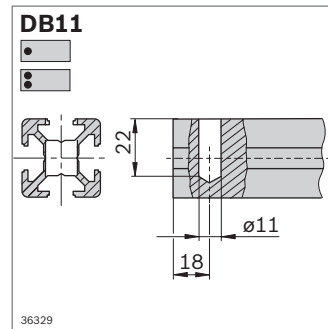
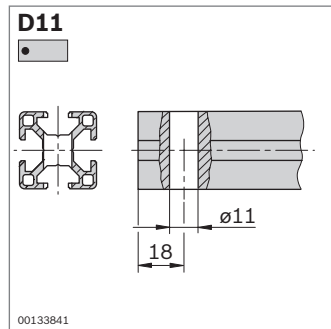
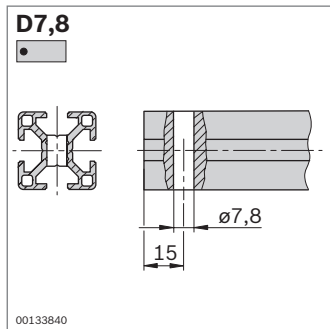
Strut profiles with a 8 mm slot are suitable for medium loads, such as material shuttles, light fixtures, frames and partition walls.

Profile 30x60x60 is suitable for constructing showcases and flow racks. Attractive covers and hoods can be designed with radius profiles.

## Slot, modular dimensions, central bore



## Profile finishing



## Minimum profile lengths (mm) for Quick & Easy standard profile finishing on one or both sides

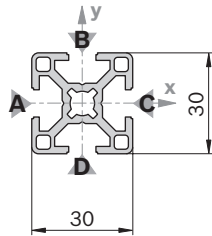
	-	M8	D7.8	D11/DB11
-	50	50	50	50
M8	50	80	62	70
D7.8	50	62	60	50
D11/DB11	50	70	50	60

## Reduced maximum profile lengths $L_{max i}$ with individual profile finishing

$L_{max}$ (mm)	$L_{max i}$ (mm)
6070	5400
3000	2300
2000	1300

**30x30**

A = 3,1 cm<sup>2</sup>  
 I<sub>x</sub> = 2,8 cm<sup>4</sup>  
 I<sub>y</sub> = 2,8 cm<sup>4</sup>  
 W<sub>x</sub> = 1,8 cm<sup>3</sup>  
 W<sub>y</sub> = 1,8 cm<sup>3</sup>  
 m = 0,9 kg/m



Cover cap	Color	ESD	No.
30x30 (1x)	Signal gray	100	3 842 548 744
30x30 (1x)	Black	20	3 842 548 745

Material: PP

Cover cap with hole	Color	ESD	No.
30x30 (1x)	Signal gray	20	3 842 548 774
30x30 (1x)	Black	20	3 842 548 775

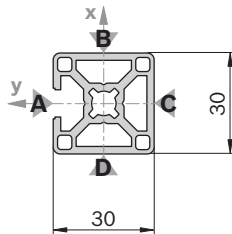
Material: PP

Cover cap ZN	ESD No.	FS
30x30-ZN	3 842 518 204	FS1

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

**30x30 1N**

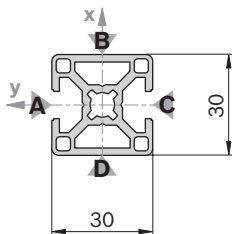
A = 3,7 cm<sup>2</sup>  
 I<sub>x</sub> = 3,1 cm<sup>4</sup>  
 I<sub>y</sub> = 3,5 cm<sup>4</sup>  
 W<sub>x</sub> = 2,0 cm<sup>3</sup>  
 W<sub>y</sub> = 2,3 cm<sup>3</sup>  
 m = 1,0 kg/m



Cover cap: see 30x30

**30x30 2N**

A = 3,5 cm<sup>2</sup>  
 I<sub>x</sub> = 2,8 cm<sup>4</sup>  
 I<sub>y</sub> = 3,5 cm<sup>4</sup>  
 W<sub>x</sub> = 2,1 cm<sup>3</sup>  
 W<sub>y</sub> = 2,7 cm<sup>3</sup>  
 m = 1,0 kg/m



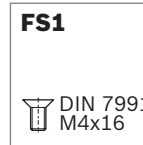
Cover cap: see 30x30

30x30	L (mm)	No.
1 pc	50 ... 6070	3 842 990 720 / L
1 pc M8	50 ... 6000	3 842 990 721 / L
1 pc M8-M8	80 ... 6000	3 842 990 723 / L
1 pc M8-D11	70 ... 6000	3 842 990 724 / L
1 pc D7,8-D7,8	60 ... 6000	3 842 992 965 / L
1 pc D11	50 ... 6000	3 842 990 722 / L
1 pc D11-D11	60 ... 6000	3 842 990 725 / L
1 pc D11-D11V	60 ... 6000	3 842 990 726 / L
1 pc	6070	3 842 557 216
20 pcs	6070	3 842 557 206

Quick & Easy (p. 2-8, see fold-out section)

30x30	3 842 993 703 / ...
Length L (mm)	50 ... 6070
Standard profile finishing L <sub>max</sub> = 6000 mm (note minimum length, p. 2-16)	M8 / D7.8 / D11 / DB11
Individual profile finishing (L <sub>max i</sub> = 5400 mm)	DI / DIS / MT / MTS / MI / MIS / DG <sup>1)</sup>

<sup>1)</sup> DG<sub>max</sub> = 45°; L<sub>min1</sub> / L<sub>min2</sub> = 352 / 404 mm



30x30 1N	L (mm)	No.
1 pc	50 ... 6070	3 842 992 397 / L
1 pc	6070	3 842 557 218
20 pcs	6070	3 842 557 208

Quick & Easy (p. 2-8, see fold-out section)

30x30 1N	3 842 993 704 / ...
Length L (mm)	50 ... 6070
Standard profile finishing L <sub>max</sub> = 6000 mm (note minimum length, p. 2-16)	M8 / D7.8 / D11 / DB11
Customized profile finishing (L <sub>max i</sub> = 5400 mm)	DI / DIS / MT / MTS / MI / MIS / DG <sup>1)</sup>

<sup>1)</sup> DG<sub>max</sub> = 45°; L<sub>min1</sub> / L<sub>min2</sub> = 352 / 404 mm

30x30 2N	L (mm)	No.
1 pc	50 ... 6070	3 842 992 399 / L
1 pc	6070	3 842 557 230
20 pcs	6070	3 842 557 220

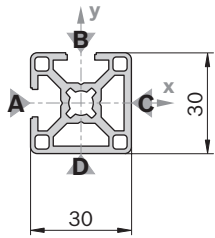
Quick & Easy (p. 2-8, see fold-out section)

30x30 2N	3 842 993 705 / ...
Length L (mm)	50 ... 6070
Standard profile finishing L <sub>max</sub> = 6000 mm (note minimum length, p. 2-16)	M8 / D7.8 / D11 / DB11
Individual profile finishing (L <sub>max i</sub> = 5400 mm)	DI / DIS / MT / MTS / MI / MIS / DG <sup>1)</sup>

<sup>1)</sup> DG<sub>max</sub> = 45°; L<sub>min1</sub> / L<sub>min2</sub> = 352 / 404 mm

**30x30 2NVS**

A = 3,5 cm<sup>2</sup>  
 I<sub>x</sub> = 3,1 cm<sup>4</sup>  
 I<sub>y</sub> = 3,1 cm<sup>4</sup>  
 W<sub>x</sub> = 2,0 cm<sup>3</sup>  
 W<sub>y</sub> = 2,0 cm<sup>3</sup>  
 m = 1,0 kg/m

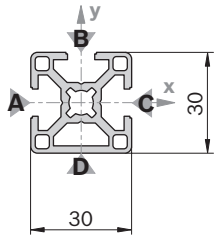


19181

Cover cap: see 30x30

**30x30 3N**

A = 3,3 cm<sup>2</sup>  
 I<sub>x</sub> = 3,1 cm<sup>4</sup>  
 I<sub>y</sub> = 2,8 cm<sup>4</sup>  
 W<sub>x</sub> = 2,3 cm<sup>3</sup>  
 W<sub>y</sub> = 2,1 cm<sup>3</sup>  
 m = 0,9 kg/m

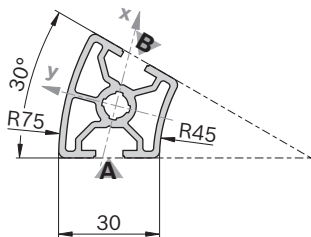


19182

Cover cap: see 30x30

**30x30°**

A = 3,7 cm<sup>2</sup>  
 I<sub>x</sub> = 3,5 cm<sup>4</sup>  
 I<sub>y</sub> = 3,6 cm<sup>4</sup>  
 W<sub>x</sub> = 2,0 cm<sup>3</sup>  
 W<sub>y</sub> = 1,9 cm<sup>3</sup>  
 m = 1,0 kg/m



19183

Cover cap	Color	ESD	No.
30x30° (1x)	Signal gray	20	3 842 551 008
30x30° (1x)	Black	20	3 842 551 009
Material:	PP		

30x30 2NVS	L (mm)	No.
1 pc	50 ... 6070	3 842 992 398 / L
1 pc	6070	3 842 557 219
20 pcs	6070	3 842 557 209

**Quick & Easy** (p. 2-8, see fold-out section)

**30x30 2NVS** 3 842 993 706 / ...

Length L (mm)	50 ... 6070
Standard profile finishing L <sub>max</sub> = 6000 mm (note minimum length, p. 2-16)	M8 / D7.8 / D11 / DB11

Individual profile finishing (L <sub>max i</sub> = 5400 mm)	DI / DIS / MT / MTS / MI / MIS / DG <sup>1)</sup>
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<sup>1)</sup> DG<sub>max</sub> = 45°; L<sub>min1</sub> / L<sub>min2</sub> = 352 / 404 mm

30x30 3N	L (mm)	No.
1 pc	50 ... 6070	3 842 992 400 / L
1 pc	6070	3 842 557 231
20 pcs	6070	3 842 557 221

**Quick & Easy** (p. 2-8, see fold-out section)

**30x30 3N** 3 842 993 707 / ...

Length L (mm)	50 ... 6070
Standard profile finishing L <sub>max</sub> = 6000 mm (note minimum length, p. 2-16)	M8 / D7.8 / D11 / DB11

Individual profile finishing (L <sub>max i</sub> = 5400 mm)	DI / DIS / MT / MTS / MI / MIS / DG <sup>1)</sup>
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<sup>1)</sup> DG<sub>max</sub> = 45°; L<sub>min1</sub> / L<sub>min2</sub> = 352 / 404 mm

30x30°	L (mm)	No.
1 pc	50 ... 6070	3 842 993 010 / L
1 pc	6070	3 842 558 313
20 pcs	6070	3 842 557 951

**Quick & Easy** (p. 2-8, see fold-out section)

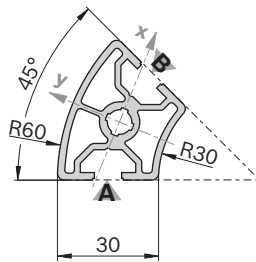
**30x30°** 3 842 993 708 / ...

Length L (mm)	50 ... 6070
Standard profile finishing L <sub>max</sub> = 6000 mm (note minimum length, p. 2-16)	M8

Customized profile finishing	—
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**30x45°**

A = 4,0 cm<sup>2</sup>  
 I<sub>x</sub> = 3,6 cm<sup>4</sup>  
 I<sub>y</sub> = 5,1 cm<sup>4</sup>  
 W<sub>x</sub> = 2,1 cm<sup>3</sup>  
 W<sub>y</sub> = 2,3 cm<sup>3</sup>  
 m = 1,1 kg/m

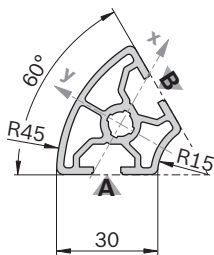


Cover cap	Color	ESD	No.
30x45° (1x)	Signal gray	20	3 842 551 010
30x45° (1x)	Black	20	3 842 551 011

Material: PP

**30x60°**

A = 3,6 cm<sup>2</sup>  
 I<sub>x</sub> = 3,0 cm<sup>4</sup>  
 I<sub>y</sub> = 4,1 cm<sup>4</sup>  
 W<sub>x</sub> = 1,7 cm<sup>3</sup>  
 W<sub>y</sub> = 1,9 cm<sup>3</sup>  
 m = 1,0 kg/m

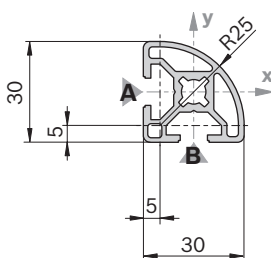


Cover cap	Color	ESD	No.
30x60° (1x)	Signal gray	20	3 842 551 012
30x60° (1x)	Black	20	3 842 551 013

Material: PP

**30x30 R**

A = 2,9 cm<sup>2</sup>  
 I<sub>x</sub> = 2,3 cm<sup>4</sup>  
 I<sub>y</sub> = 2,3 cm<sup>4</sup>  
 W<sub>x</sub> = 1,4 cm<sup>3</sup>  
 W<sub>y</sub> = 1,4 cm<sup>3</sup>  
 m = 0,8 kg/m



Cover cap	Color	ESD	No.
30x30 R (1x)	Signal gray	20	3 842 548 776
30x30 R (1x)	Black	20	3 842 548 777

Material: PP

30x45°	L (mm)	No.
1 pc	50 ... 6070	3 842 993 011 / L
1 pc	6070	3 842 558 314
20 pcs	6070	3 842 557 952

Quick & Easy (p. 2-8, see fold-out section)

30x45°	3 842 993 711 / ...
Length L (mm)	50 ... 6070
Standard profile finishing L <sub>max</sub> = 6000 mm	M8
(note minimum length, p. 2-16)	
Customized profile finishing	—

30x60°	L (mm)	No.
1 pc	50 ... 6070	3 842 993 012 / L
1 pc	6070	3 842 558 315
20 pcs	6070	3 842 557 953

Quick & Easy (p. 2-8, see fold-out section)

30x60°	3 842 993 714 / ...
Length L (mm)	50 ... 6070
Standard profile finishing L <sub>max</sub> = 6000 mm	M8
(note minimum length, p. 2-16)	
Customized profile finishing	—

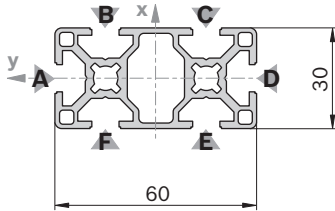
30x30 R	L (mm)	No.
1 pc	50 ... 6070	3 842 992 896 / L
1 pc	6070	3 842 558 309
20 pcs	6070	3 842 557 947

Quick & Easy (p. 2-8, see fold-out section)

30x30 R	3 842 993 709 / ...
Length L (mm)	50 ... 6070
Standard profile finishing L <sub>max</sub> = 6000 mm	M8 / DB11
(note minimum length, p. 2-15)	
Customized profile finishing	—

**30x60**

A = 5,5 cm<sup>2</sup>  
 $I_x = 19,6 \text{ cm}^4$   
 $I_y = 5,1 \text{ cm}^4$   
 $W_x = 7,0 \text{ cm}^3$   
 $W_y = 3,9 \text{ cm}^3$   
 m = 1,5 kg/m



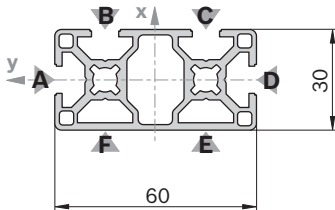
19187

Cover cap	Color	ESD	No.
30x30 (2x)	Signal gray	100	3 842 548 744
30x60 (1x)	Signal gray	20	3 842 548 780
30x30 (2x)	Black	20	3 842 548 745
30x60 (1x)	Black	20	3 842 548 781
Material:	PP		

Cover cap with hole	Color	ESD	No.
30x30 (2x)	Signal gray	20	3 842 548 774
30x30 (2x)	Black	20	3 842 548 775
Material:	PP		

**30x60 4N**

A = 5,8 cm<sup>2</sup>  
 $I_x = 20,2 \text{ cm}^4$   
 $I_y = 5,5 \text{ cm}^4$   
 $W_x = 6,7 \text{ cm}^3$   
 $W_y = 3,8 \text{ cm}^3$   
 m = 1,6 kg/m

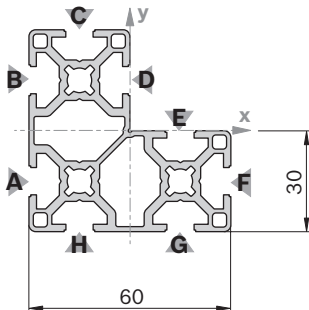


19188

Cover cap: see 30x60

**30x60x60**

A = 8,2 cm<sup>2</sup>  
 $I_x = 26,2 \text{ cm}^4$   
 $I_y = 26,2 \text{ cm}^4$   
 $W_x = 7,6 \text{ cm}^3$   
 $W_y = 7,6 \text{ cm}^3$   
 m = 2,2 kg/m



19189

Cover cap	Color	ESD	No.
30x30 (3x)	Signal gray	100	3 842 548 744
30x30 (3x)	Black	20	3 842 548 745
Material:	PP		

30x60	L (mm)	No.
1 pc	50 ... 6070	3 842 992 457 / L
1 pc M8	50 ... 6000	3 842 992 458 / L
1 pc M8=M8	80 ... 6000	3 842 992 926 / L
1 pc D11	50 ... 6000	3 842 992 459 / L
1 pc D11:D11	60 ... 6000	3 842 992 460 / L
1 pc D11:D11V	60 ... 6000	3 842 992 463 / L
1 pc D11V:D11V	60 ... 6000	3 842 992 462 / L
1 pc	6070	3 842 557 215
10 pcs	6070	3 842 557 205

Profile finishing: M8: in all core holes  
 D11: in slots B/F, C/E  
 D11V: in slots A/D

Quick & Easy (p. 2-8, see fold-out section)

30x60	3 842 993 712 / ...
Length L (mm)	50 ... 6070
Standard profile finishing $L_{max} = 6000 \text{ mm}$ (note minimum length, p. 2-16)	M8 / D7.8 / D11 / DB11
Individual profile finishing ( $L_{max i} = 5400 \text{ mm}$ )	DI / DIS / MT / MTS / MI / MIS / DG <sup>1)</sup>
1) $DG_{max} = 45^\circ$ ; $L_{min1} / L_{min2} = 404 / 508 \text{ mm}$	

30x60 4N	L (mm)	No.
1 pc	50 ... 6070	3 842 993 420 / L
1 pc	6070	3 842 536 473
10 pcs	6070	3 842 536 472

Quick & Easy (p. 2-8, see fold-out section)

30x60 4N	3 842 993 713 / ...
Length L (mm)	50 ... 6070
Standard profile finishing $L_{max} = 6000 \text{ mm}$ (note minimum length, p. 2-16)	M8 / D7.8 / D11 / DB11
Individual profile finishing ( $L_{max i} = 5400 \text{ mm}$ )	DI / DIS / MT / MTS / MI / MIS / DG <sup>1)</sup>
1) $DG_{max} = 45^\circ$ ; $L_{min1} / L_{min2} = 404 / 508 \text{ mm}$	

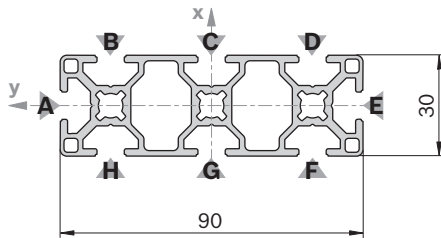
30x60x60	L (mm)	No.
1 pc	50 ... 6070	3 842 993 016 / L
1 pc	6070	3 842 557 248
20 pcs	6070	3 842 557 241

Quick & Easy (p. 2-8, see fold-out section)

30x60x60	3 842 993 715 / ...
Length L (mm)	50 ... 6070
Standard profile finishing $L_{max} = 6000 \text{ mm}$ (note minimum length, p. 2-16)	M8 / D7.8 / D11 / DB11
Individual profile finishing ( $L_{max i} = 5400 \text{ mm}$ )	DI / DIS / MT / MTS / MI / MIS / DG <sup>1)</sup>
1) $DG_{max} = 45^\circ$ ; $L_{min1} / L_{min2} = 404 / 508 \text{ mm}$	

**30x90**

A = 7,7 cm<sup>2</sup>  
 I<sub>x</sub> = 60,7 cm<sup>4</sup>  
 I<sub>y</sub> = 7,3 cm<sup>4</sup>  
 W<sub>x</sub> = 13,5 cm<sup>3</sup>  
 W<sub>y</sub> = 4,9 cm<sup>3</sup>  
 m = 2,1 kg/m



Cover cap	Color	ESD	No.
30x30 (3x)	Signal gray	100	3 842 548 744
30x30 (3x)	Black	20	3 842 548 745

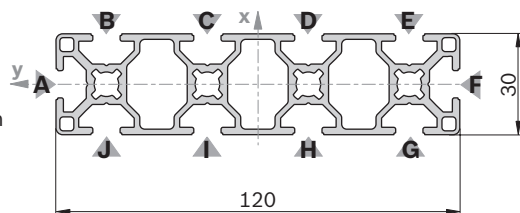
Material: PP

Cover cap with hole	Color	ESD	No.
30x30 (3x)	Signal gray	20	3 842 548 774
30x30 (3x)	Black	20	3 842 548 775

Material: PP

**30x120**

A = 9,9 cm<sup>2</sup>  
 I<sub>x</sub> = 136,3 cm<sup>4</sup>  
 I<sub>y</sub> = 9,6 cm<sup>4</sup>  
 W<sub>x</sub> = 22,7 cm<sup>3</sup>  
 W<sub>y</sub> = 6,4 cm<sup>3</sup>  
 m = 2,7 kg/m



Cover cap	Color	ESD	No.
30x30 (4x)	Signal gray	100	3 842 548 744
30x60 (2x)	Signal gray	20	3 842 548 780
30x30 (4x)	Black	20	3 842 548 745
30x60 (2x)	Black	20	3 842 548 781

Material: PP

Cover cap with hole	Color	ESD	No.
30x30 (4x)	Signal gray	20	3 842 548 774
30x30 (4x)	Black	20	3 842 548 775

Material: PP

30x90	L (mm)	No.
1 pc	50 ... 6070	3 842 993 618 / L
20 pcs	6070	3 842 541 937

**Quick & Easy** (p. 2-8, see fold-out section)

30x90	3 842 993 762 / ...
Length L (mm)	50 ... 6070
Standard profile finishing L <sub>max</sub> = 6000 mm (note minimum length, p. 2-16)	M8 / D7.8 (B,C,D,F, G,H) <sup>1)</sup> / D11 (B,C,D, F,G,H) <sup>1)</sup> / DB11
Individual profile finishing (L <sub>max i</sub> = 5400 mm)	DI / DIS / MT / MTS / MI / MIS / DG <sup>2)</sup>

<sup>1)</sup> For the specified slots

<sup>2)</sup> DG<sub>max</sub> = 45°; L<sub>min1</sub> / L<sub>min2</sub> = 150 / 150 mm

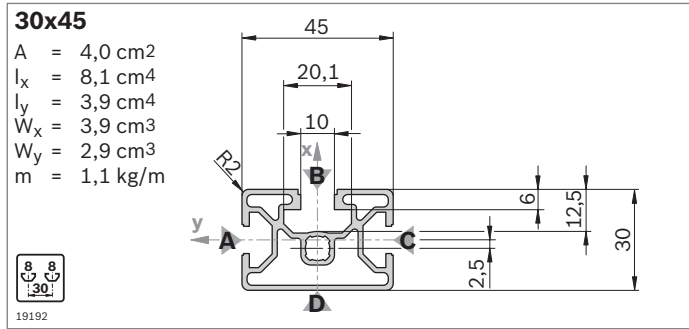
30x120	L (mm)	No.
1 pc	50 ... 6070	3 842 993 841 / L
20 pcs	6070	3 842 541 939

**Quick & Easy** (p. 2-8, see fold-out section)

30x120	3 842 993 763 / ...
Length L (mm)	50 ... 6070
Standard profile finishing L <sub>max</sub> = 6000 mm (note minimum length, p. 2-16)	M8 / D7.8 (B,C,D,E, G,H,I,J) <sup>1)</sup> / D11 (B,C,D, E,G,H,I,J) <sup>1)</sup> / DB11
Individual profile finishing (L <sub>max i</sub> = 5400 mm)	DI / DIS / MT / MTS / MI / MIS / DG <sup>2)</sup>

<sup>1)</sup> For the specified slots

<sup>2)</sup> DG<sub>max</sub> = 45°; L<sub>min1</sub> / L<sub>min2</sub> = 150 / 150 mm



Cover cap	Color	ESD	No.
30x45 (1x)	Signal gray	20	3 842 548 778
30x45 (1x)	Black	20	3 842 548 779

Material: PP

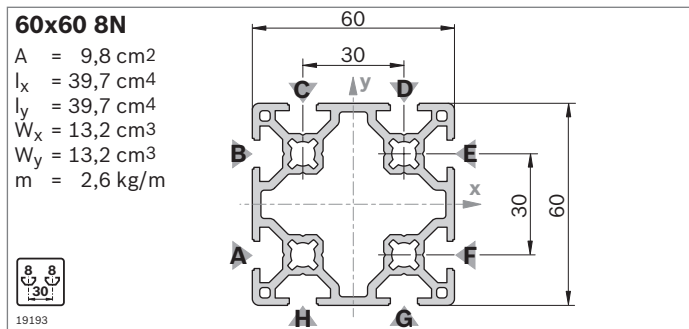
30x45	L (mm)	No.
1 pc	50 ... 6070	3 842 992 430 / L
1 pc M8	50 ... 6000	3 842 992 431 / L
1 pc	6070	3 842 557 213
18 pcs	6070	3 842 557 203

Quick & Easy (p. 2-8, see fold-out section)

30x45	3 842 993 710 / ...
Length L (mm)	50 ... 6070
Standard profile finishing $L_{max} = 6000 \text{ mm}$ (note minimum length, p. 2-16)	M8 / D7.8 (A,C) <sup>1)</sup> / D9.8 (B) <sup>1)</sup> / D11 (A,C) <sup>1)</sup> / DB11 / D17 (B) <sup>1)</sup>
Individual profile finishing ( $L_{max i} = 5400 \text{ mm}$ )	DI / DIS / MT / MTS / MI / MIS / DG <sup>2)</sup>

<sup>1)</sup> For the specified slots

<sup>2)</sup>  $DG_{max} = 45^\circ$ ;  $L_{min1} / L_{min2} = 378 / 456 \text{ mm}$



Cover cap	Color	ESD	No.
60x60 8N (1x)	Signal gray	20	3 842 551 046
60x60 8N (1x)	Black	20	3 842 551 047

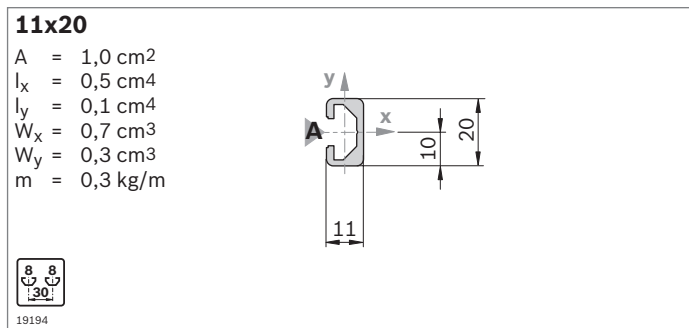
Material: PP

60x60 8N	L (mm)	No.
1 pc	50 ... 6070	3 842 993 033 / L
1 pc	6070	3 842 564 215
20 pcs	6070	3 842 535 176

Quick & Easy (p. 2-8, see fold-out section)

60x60 8N	3 842 993 669 / ...
Length L (mm)	50 ... 6070
Standard profile finishing $L_{max} = 6000 \text{ mm}$ (note minimum length, p. 2-16)	M8 / D7.8 / D11 / DB11
Individual profile finishing ( $L_{max i} = 5400 \text{ mm}$ )	DI / DIS / MT / MTS / MI / MIS / DG <sup>2)</sup>

<sup>2)</sup>  $DG_{max} = 45^\circ$ ;  $L_{min1} / L_{min2} = 404 / 508 \text{ mm}$



Cover cap	Color	ESD	No.
11x20 (1x)	Signal gray	20	3 842 551 044
11x20 (1x)	Black	20	3 842 551 045

Material: PP

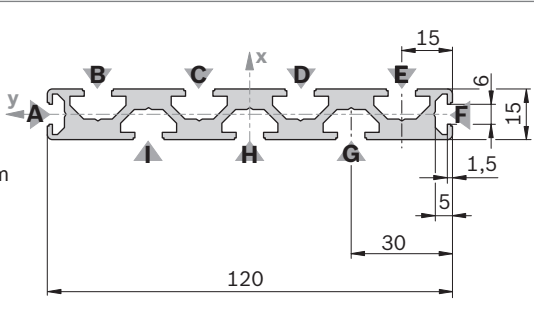
11x20	L (mm)	No.
1 pc	50 ... 2000	3 842 992 476 / L
1 pc	2000	3 842 564 213
10 pcs	2000	3 842 513 581

Quick & Easy (p. 2-8, see fold-out section)

11x20	3 842 993 688 / ...
Length L (mm)	50 ... 2000
Standard profile finishing (note minimum length, p. 2-16)	D7.8 / D11
Customized profile finishing	—

**15x120**

A = 9,0 cm<sup>2</sup>  
 I<sub>x</sub> = 110,4 cm<sup>4</sup>  
 I<sub>y</sub> = 2,2 cm<sup>4</sup>  
 W<sub>x</sub> = 18,4 cm<sup>3</sup>  
 W<sub>y</sub> = 2,7 cm<sup>3</sup>  
 m = 2,4 kg/m



Cover cap	Color	ESD	No.
15x120 (1x)	Signal gray	20	3 842 548 768
15x120 (1x)	Black	20	3 842 548 769

Material: PP

15x120	L (mm)	No.
1 pc	50 ... 3000	3 842 993 078 / L
1 pc	3000	3 842 526 818
10 pcs	3000	3 842 537 821

Quick & Easy (p. 2-8, see fold-out section)

15x120	3 842 993 684 / ...
Length L (mm)	80 ... 3000
Standard profile finishing (note minimum length, p. 2-16)	D7.8 (B,C,D,E,G,H,I) <sup>1)</sup> / D11 (B,C,D,E,G,H,I) <sup>1)</sup>
Individual profile finishing (L <sub>max i</sub> = 2300 mm)	DI / DIS / MT / MTS / MI / MIS

<sup>1)</sup> For the specified slots

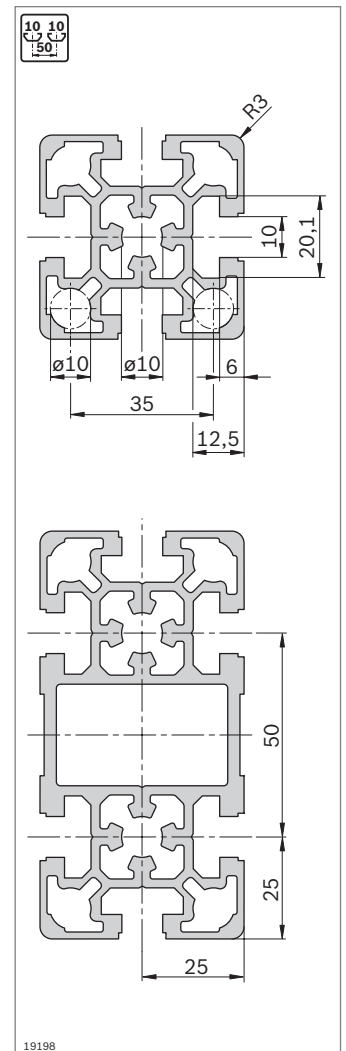
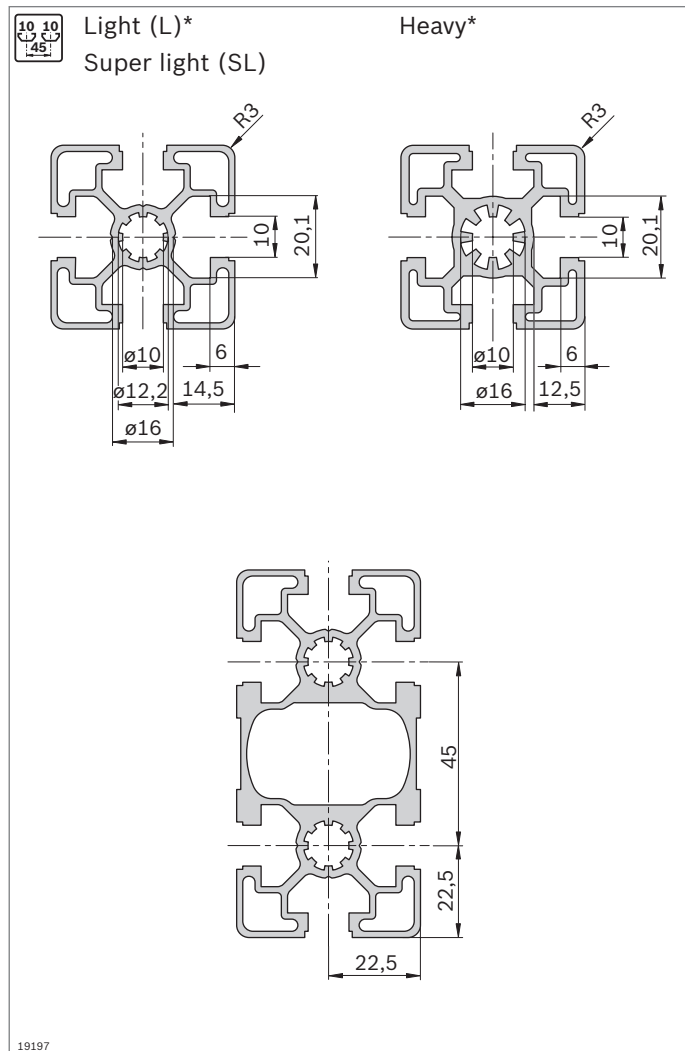
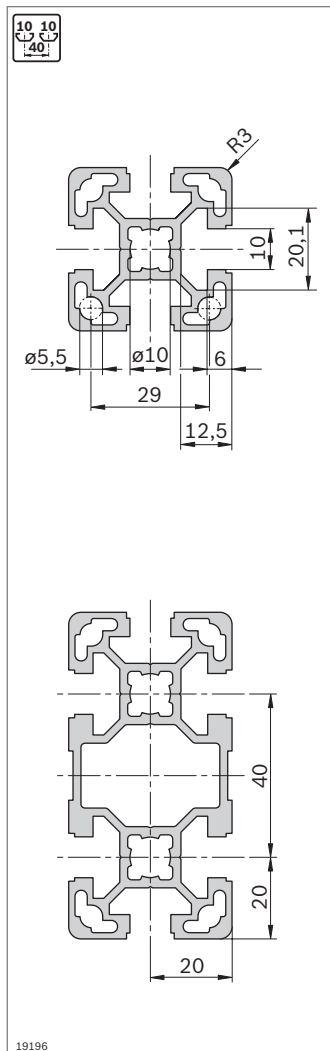
# Strut profiles with 10 mm slot

The Rexroth modular profile system, with 10 mm slots in the modular dimensions 40 mm, 45 mm, 50 mm, and 60 mm, covers all conventional profile dimensions on the world market.

Thanks to their computer-optimized design, the strut profiles L with 10 mm slot (modular dimensions 40 mm, 45 mm,

and 50 mm, e.g. 50x50L) combine high strengths with minimum use of materials. This gives you a cost-effective and stable solution for the construction of tables, protective equipment or frames, for instance.

## Slot, modular dimensions, central bore



\*) The following L-profiles have a "heavy" slot geometry:  
45x90x90L; 45x90x90L 4N; 90x90L; 90x90L 4N; 90x90L 4NVS; 90x180L

**Minimum profile lengths (mm) for Quick & Easy standard profile finishing on one or both sides**

	-	M12	M16	D9.8	D17/DB17	F1
-	50	60	120	50	60	60
M12	60	110	180	90	90	110
M16	120	180	240	150	170	170
D9.8	50	90	150	80	70	90
D17/DB17	60	90	170	70	80	90
F1	60	110	170	90	90	80

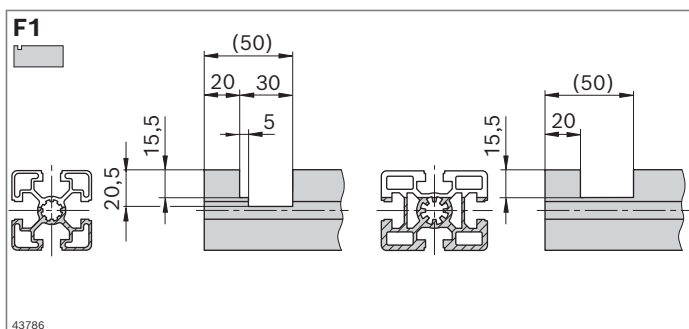
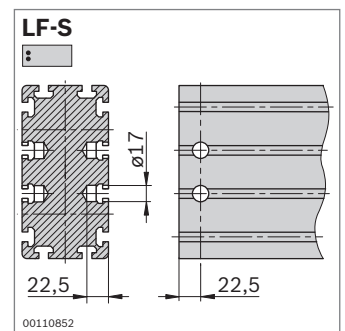
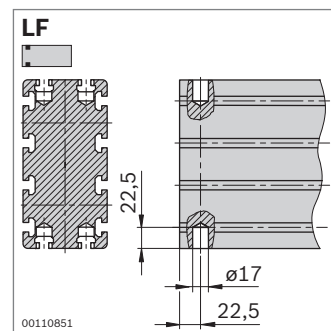
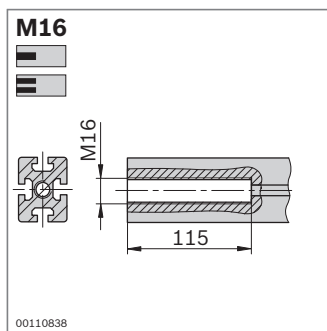
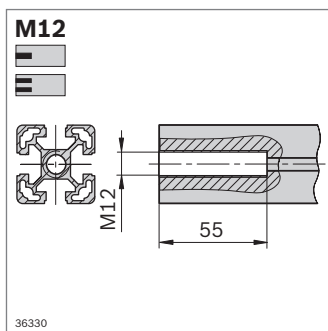
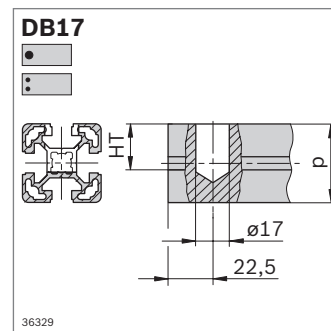
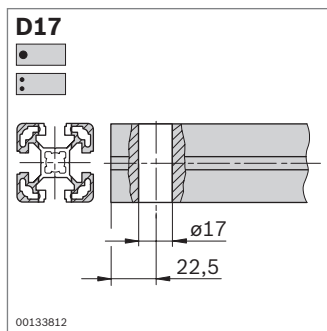
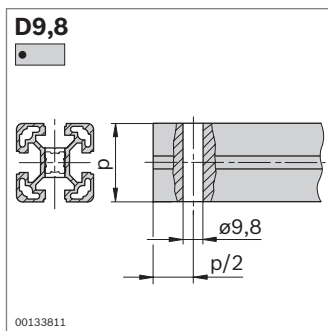
For applications with high loads, we recommend especially stable profiles with 10 mm slots, e.g. for heavy work tables, fixtures, machine frames, transport shuttles, protective enclosures, and handling systems.

**Reduced maximum profile lengths  $L_{max}$  with individual profile finishing**

$L_{max}$ (mm)	$L_{max i}$ (mm)
6070	5400
3000	2300
2000	1300

Due to its very sturdy design, this slot allows maximum strength connections.

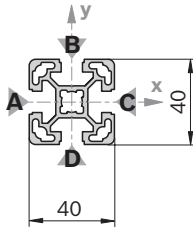
**Profile finishing**



F1 exception: 45x60 and sliding door profile 45x45

**40x40L**

A = 5,6 cm<sup>2</sup>  
 $I_x = 9,1 \text{ cm}^4$   
 $I_y = 9,1 \text{ cm}^4$   
 $W_x = 4,5 \text{ cm}^3$   
 $W_y = 4,5 \text{ cm}^3$   
 m = 1,5 kg/m



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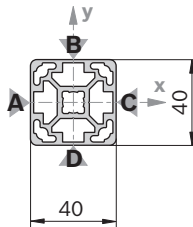
Cover cap	Color	ESD	No.
40x40 (1x)	Signal gray	100	3 842 548 746
40x40 (1x)	Black	20	3 842 548 747
Material:	PP		

Cover cap with hole	Color	ESD	No.
40x40 (1x)	Signal gray	20	3 842 548 782
40x40 (1x)	Black	20	3 842 548 783
Material:	PP		

Cover cap ZN	ESD No.	FS
40x40-ZN	3 842 541 807	FS2
Material:	Cover cap: Diecast zinc Fastening material: Steel; zinc-plated	

**40x40L ON**

A = 6,3 cm<sup>2</sup>  
 $I_x = 10,4 \text{ cm}^4$   
 $I_y = 10,4 \text{ cm}^4$   
 $W_x = 5,2 \text{ cm}^3$   
 $W_y = 5,2 \text{ cm}^3$   
 m = 1,7 kg/m

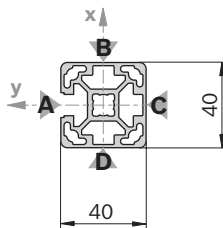


19200

Cover cap: see 40x40

**40x40L 1N**

A = 6,1 cm<sup>2</sup>  
 $I_x = 9,8 \text{ cm}^4$   
 $I_y = 10,3 \text{ cm}^4$   
 $W_x = 4,7 \text{ cm}^3$   
 $W_y = 5,1 \text{ cm}^3$   
 m = 1,7 kg/m



19201

Cover cap: see 40x40

40x40L	L (mm)	No.
1 pc	50 ... 6070	3 842 993 120 / L
1 pc M12	60 ... 6000	3 842 993 121 / L
1 pc M12-M12	110 ... 6000	3 842 993 122 / L
1 pc M12-D17	90 ... 6000	3 842 993 123 / L
1 pc D17	60 ... 6000	3 842 993 124 / L
1 pc D17-D17	80 ... 6000	3 842 993 125 / L
1 pc D17-D17V	80 ... 6000	3 842 993 126 / L
1 pc D9,8-D9,8	80 ... 6000	3 842 993 129 / L
1 pc	6070	3 842 529 340
20 pcs	6070	3 842 529 339

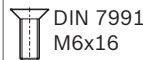
Quick & Easy (p. 2-8, see fold-out section)

40x40L	3 842 993 724 / ...
Length L (mm)	50 ... 6070
Standard profile finishing $L_{max} = 6000 \text{ mm}$ (note minimum length, p. 2-25)	M12 / D9.8 / D17 / DB17
Individual profile finishing ( $L_{max i} = 5400 \text{ mm}$ )	DI / DIS / MT / MTS / MI / MIS / DG <sup>2)</sup>

<sup>1)</sup> For the specified slots

<sup>2)</sup>  $DG_{max} = 45^\circ$ ;  $L_{min1} / L_{min2} = 370 / 440 \text{ mm}$

**FS2**



40x40L ON	L (mm)	No.
1 pc	50 ... 6070	3 842 993 876 / L
20 pcs	6070	3 842 540 954

Quick & Easy (p. 2-8, see fold-out section)

40x40L ON	3 842 993 760 / ...
Length L (mm)	50 ... 6070
Standard profile finishing $L_{max} = 6000 \text{ mm}$ (note minimum length, p. 2-25)	M12 / D9.8 / D17 / DB17
Individual profile finishing ( $L_{max i} = 5400 \text{ mm}$ )	DI / DIS / MT / MTS / MI / MIS / DG <sup>1)</sup>

<sup>1)</sup>  $DG_{max} = 45^\circ$ ;  $L_{min1} / L_{min2} = 370 / 440 \text{ mm}$

40x40L 1N	L (mm)	No.
1 pc	50 ... 6070	3 842 993 185 / L
1 pc M12-M12	110 ... 6000	3 842 993 186 / L
1 pc	6070	3 842 529 362
20 pcs	6070	3 842 529 361

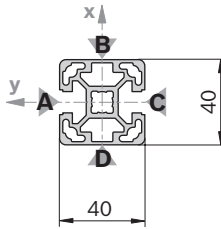
Quick & Easy (p. 2-8, see fold-out section)

40x40L 1N	3 842 993 719 / ...
Length L (mm)	50 ... 6070
Standard profile finishing $L_{max} = 6000 \text{ mm}$ (note minimum length, p. 2-25)	M12 / D9.8 / D17 / DB17
Individual profile finishing ( $L_{max i} = 5400 \text{ mm}$ )	DI / DIS / MT / MTS / MI / MIS / DG <sup>1)</sup>

<sup>1)</sup>  $DG_{max} = 45^\circ$ ;  $L_{min1} / L_{min2} = 370 / 440 \text{ mm}$

**40x40L 2N**

A = 6,0 cm<sup>2</sup>  
 I<sub>x</sub> = 9,0 cm<sup>4</sup>  
 I<sub>y</sub> = 10,3 cm<sup>4</sup>  
 W<sub>x</sub> = 4,5 cm<sup>3</sup>  
 W<sub>y</sub> = 5,2 cm<sup>3</sup>  
 m = 1,6 kg/m



19202

Cover cap: see 40x40

<b>40x40L 2N</b>		<b>L (mm)</b>	<b>No.</b>
1 pc		50 ... 6070	<b>3 842 993 187 / L</b>
1 pc	M12  M12	110 ... 6000	<b>3 842 993 188 / L</b>
1 pc		6070	<b>3 842 529 364</b>
20 pcs		6070	<b>3 842 529 363</b>

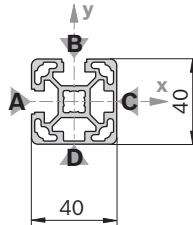
**Quick & Easy** (p. 2-8, see fold-out section)

<b>40x40L 2N</b>		<b>3 842 993 720 / ...</b>
Length L (mm)	50 ... 6070	
Standard profile finishing L <sub>max</sub> = 6000 mm (note minimum length, p. 2-25)	M12 / D9.8 / D17 / DB17	
Customized profile finishing (L <sub>max i</sub> = 5400 mm)	DI / DIS / MT / MTS / MI / MIS / DG <sup>1)</sup>	

<sup>1)</sup> DG<sub>max</sub> = 45°; L<sub>min1</sub> / L<sub>min2</sub> = 370 / 440 mm

**40x40L 2NVS**

A = 6,0 cm<sup>2</sup>  
 I<sub>x</sub> = 9,7 cm<sup>4</sup>  
 I<sub>y</sub> = 9,7 cm<sup>4</sup>  
 W<sub>x</sub> = 4,9 cm<sup>3</sup>  
 W<sub>y</sub> = 4,9 cm<sup>3</sup>  
 m = 1,6 kg/m



19203

Cover cap: see 40x40

<b>40x40L 2NVS</b>		<b>L (mm)</b>	<b>No.</b>
1 pc		50 ... 6070	<b>3 842 993 189 / L</b>
1 pc	M12  M12	110 ... 6000	<b>3 842 993 190 / L</b>
1 pc		6070	<b>3 842 529 366</b>
20 pcs		6070	<b>3 842 529 365</b>

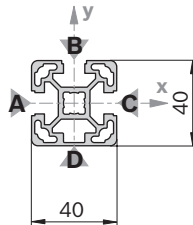
**Quick & Easy** (p. 2-8, see fold-out section)

<b>40x40L 2NVS</b>		<b>3 842 993 721 / ...</b>
Length L (mm)	50 ... 6070	
Standard profile finishing L <sub>max</sub> = 6000 mm (note minimum length, p. 2-25)	M12 / D9.8 / D17 / DB17	
Customized profile finishing (L <sub>max i</sub> = 5400 mm)	DI / DIS / MT / MTS / MI / MIS / DG <sup>1)</sup>	

<sup>1)</sup> DG<sub>max</sub> = 45°; L<sub>min1</sub> / L<sub>min2</sub> = 370 / 440 mm

**40x40L 3N**

A = 5,8 cm<sup>2</sup>  
 I<sub>x</sub> = 9,7 cm<sup>4</sup>  
 I<sub>y</sub> = 9,0 cm<sup>4</sup>  
 W<sub>x</sub> = 4,8 cm<sup>3</sup>  
 W<sub>y</sub> = 4,5 cm<sup>3</sup>  
 m = 1,6 kg/m



19204

Cover cap: see 40x40

<b>40x40L 3N</b>		<b>L (mm)</b>	<b>No.</b>
1 pc		50 ... 6070	<b>3 842 993 191 / L</b>
1 pc	M12  M12	110 ... 6000	<b>3 842 993 192 / L</b>
1 pc		6070	<b>3 842 529 368</b>
20 pcs		6070	<b>3 842 529 367</b>

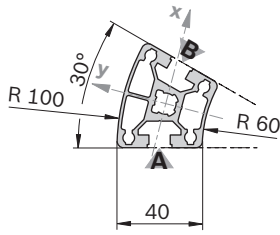
**Quick & Easy** (p. 2-8, see fold-out section)

<b>40x40L 3N</b>		<b>3 842 993 722 / ...</b>
Length L (mm)	50 ... 6070	
Standard profile finishing L <sub>max</sub> = 6000 mm (note minimum length, p. 2-25)	M12 / D9.8 / D17 / DB17	
Individual profile finishing (L <sub>max i</sub> = 5400 mm)	DI / DIS / MT / MTS / MI / MIS / DG <sup>1)</sup>	

<sup>1)</sup> DG<sub>max</sub> = 45°; L<sub>min1</sub> / L<sub>min2</sub> = 370 / 440 mm

**40x30°**

A = 6,2 cm<sup>2</sup>  
 $I_x = 9,4 \text{ cm}^4$   
 $I_y = 11,8 \text{ cm}^4$   
 $W_x = 4,7 \text{ cm}^3$   
 $W_y = 5,9 \text{ cm}^3$   
 m = 1,7 kg/m



<b>40x30°</b>		<b>L (mm)</b>	<b>No.</b>
1 pc		50 ... 6070	<b>3 842 993 195 / L</b>
1 pc		6070	<b>3 842 529 372</b>
12 pcs		6070	<b>3 842 529 371</b>

**Quick & Easy** (p. 2-8, see fold-out section)

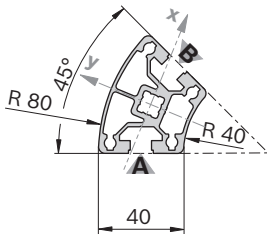
<b>40x30°</b>		<b>3 842 993 718 / ...</b>
Length L (mm)	50 ... 6070	
Standard profile finishing $L_{max} = 6000 \text{ mm}$	M12	
(note minimum length, p. 2-25)		
Customized profile finishing	—	

<b>Cover cap</b>	<b>Color</b>	<b>ESD</b>	<b>No.</b>
40x30° (1x)	Signal gray	20	<b>3 842 551 014</b>
40x30° (1x)	Black		<b>3 842 551 015</b>

Material: PP

**40x45°**

A = 6,8 cm<sup>2</sup>  
 $I_x = 9,9 \text{ cm}^4$   
 $I_y = 16,6 \text{ cm}^4$   
 $W_x = 5,0 \text{ cm}^3$   
 $W_y = 8,3 \text{ cm}^3$   
 m = 1,8 kg/m



<b>40x45°</b>		<b>L (mm)</b>	<b>No.</b>
1 pc		50 ... 6070	<b>3 842 993 197 / L</b>
1 pc		6070	<b>3 842 529 374</b>
12 pcs		6070	<b>3 842 529 373</b>

**Quick & Easy** (p. 2-8, see fold-out section)

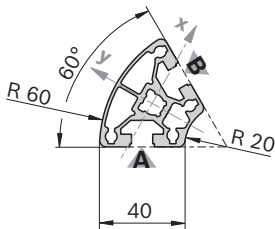
<b>40x45°</b>		<b>3 842 993 726 / ...</b>
Length L (mm)	50 ... 6070	
Standard profile finishing $L_{max} = 6000 \text{ mm}$	M12	
(note minimum length, p. 2-25)		
Customized profile finishing	—	

<b>Cover cap</b>	<b>Color</b>	<b>ESD</b>	<b>No.</b>
40x45° (1x)	Signal gray	20	<b>3 842 551 016</b>
40x45° (1x)	Black		<b>3 842 551 017</b>

Material: PP

**40x60°**

A = 6,3 cm<sup>2</sup>  
 $I_x = 8,7 \text{ cm}^4$   
 $I_y = 13,1 \text{ cm}^4$   
 $W_x = 4,3 \text{ cm}^3$   
 $W_y = 6,5 \text{ cm}^3$   
 m = 1,7 kg/m



<b>40x60°</b>		<b>L (mm)</b>	<b>No.</b>
1 pc		50 ... 6070	<b>3 842 993 198 / L</b>
1 pc		6070	<b>3 842 529 376</b>
12 pcs		6070	<b>3 842 529 375</b>

**Quick & Easy** (p. 2-8, see fold-out section)

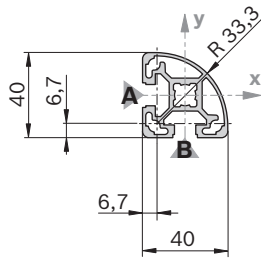
<b>40x60°</b>		<b>3 842 993 727 / ...</b>
Length L (mm)	50 ... 6070	
Standard profile finishing $L_{max} = 6000 \text{ mm}$	M12	
(note minimum length, p. 2-25)		
Customized profile finishing	—	

<b>Cover cap</b>	<b>Color</b>	<b>ESD</b>	<b>No.</b>
40x60° (1x)	Signal gray	20	<b>3 842 551 018</b>
40x60° (1x)	Black		<b>3 842 551 019</b>

Material: PP

**40x40L R**

A = 5,0 cm<sup>2</sup>  
 I<sub>x</sub> = 7,2 cm<sup>4</sup>  
 I<sub>y</sub> = 7,2 cm<sup>4</sup>  
 W<sub>x</sub> = 3,6 cm<sup>3</sup>  
 W<sub>y</sub> = 3,6 cm<sup>3</sup>  
 m = 1,3 kg/m



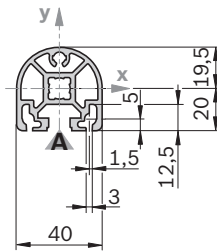
19208

Cover cap	Color	ESD	No.
40x40 R (1x)	Signal gray	20	3 842 548 784
40x40 R (1x)	Black	20	3 842 548 785

Material: PP

**40x40 HR**

A = 5,5 cm<sup>2</sup>  
 I<sub>x</sub> = 8,1 cm<sup>4</sup>  
 I<sub>y</sub> = 7,6 cm<sup>4</sup>  
 W<sub>x</sub> = 4,0 cm<sup>3</sup>  
 W<sub>y</sub> = 3,6 cm<sup>3</sup>  
 m = 1,5 kg/m



19209

Cover cap	Color	ESD	No.
40x40 HR (1x)	Signal gray	20	3 842 548 786
40x40 HR (1x)	Black	20	3 842 548 787

Material: PP

Cover cap with hole <sup>1)</sup>	Color	ESD	No.
40x40 HR (1x)	Signal gray	20	3 842 548 786
40x40 HR (1x)	Black	20	3 842 548 787

Material: PP

<sup>1)</sup> The cover cap is also suitable for use with a hole; hole can be broken out

40x40L R	L (mm)	No.
1 pc	50 ... 6070	3 842 993 184 / L
1 pc	6070	3 842 529 360
20 pcs	6070	3 842 529 359

Quick & Easy (p. 2-8, see fold-out section)

40x40L R	3 842 993 725 / ...
Length L (mm)	50 ... 6070
Standard profile finishing L <sub>max</sub> = 6000 mm	M12 / DB17 (A,B) <sup>1)</sup>
(note minimum length, p. 2-25)	
Customized profile finishing	—

<sup>1)</sup> For the specified slots

40x40 HR	L (mm)	No.
1 pc	50 ... 6070	3 842 993 256 / L
1 pc M12	110 ... 6000	3 842 993 257 / L
1 pc	6070	3 842 564 216
20 pcs	6070	3 842 529 381

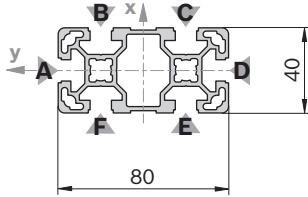
Quick & Easy (p. 2-8, see fold-out section)

40x40 HR	3 842 993 723 / ...
Length L (mm)	50 ... 6070
Standard profile finishing L <sub>max</sub> = 6000 mm	M12 / DB17
(note minimum length, p. 2-25)	
Individual profile finishing	DI / DIS / MT / MTS / MI / MIS / DG <sup>1)</sup>
(L <sub>max i</sub> = 5400 mm)	

<sup>1)</sup> DG<sub>max</sub> = 45°; L<sub>min1</sub> / L<sub>min2</sub> = 370 / 440 mm

**40x80L**

A = 9,9 cm<sup>2</sup>  
 $I_x = 63,4 \text{ cm}^4$   
 $I_y = 17,3 \text{ cm}^4$   
 $W_x = 15,9 \text{ cm}^3$   
 $W_y = 8,7 \text{ cm}^3$   
 m = 2,7 kg/m



19210

Cover cap	Color	ESD	No.
40x80 (1x)	Signal gray	20	3 842 548 748
40x80 (1x)	Black	20	3 842 548 749

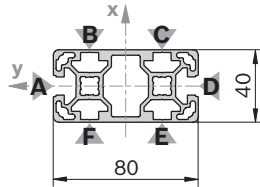
Material: PP

Cover cap with hole	Color	ESD	No.
40x80 (1x)	Signal gray	20	3 842 548 788
40x80 (1x)	Black	20	3 842 548 789

Material: PP

**40x80L 2N**

A = 10,9 cm<sup>2</sup>  
 $I_x = 66,6 \text{ cm}^4$   
 $I_y = 20,8 \text{ cm}^4$   
 $W_x = 16,6 \text{ cm}^3$   
 $W_y = 10,4 \text{ cm}^3$   
 m = 2,9 kg/m

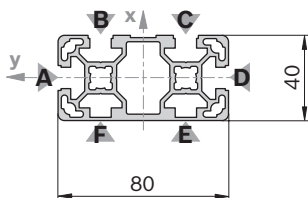


33094

Cover cap: see 40x80

**40x80L 4N**

A = 10,4 cm<sup>2</sup>  
 $I_x = 65,2 \text{ cm}^4$   
 $I_y = 19,1 \text{ cm}^4$   
 $W_x = 16,3 \text{ cm}^3$   
 $W_y = 9,9 \text{ cm}^3$   
 m = 2,8 kg/m



19211

Cover cap: see 40x80

40x80L	L (mm)	No.
1 pc	50 ... 6070	3 842 993 130 / L
1 pc M12	60 ... 6000	3 842 993 131 / L
1 pc M12 M12	110 ... 6000	3 842 993 132 / L
1 pc D17 D17	80 ... 6000	3 842 993 135 / L
1 pc D17 D17V	80 ... 6000	3 842 993 136 / L
1 pc D17V	60 ... 6000	3 842 993 137 / L
1 pc D17V D17V	80 ... 6000	3 842 993 138 / L
1 pc	6070	3 842 529 342
12 pcs	6070	3 842 529 341

Profile finishing: M12: in all core holes  
 D17: in slots B/F, C/E  
 D17V: in slots A/D

Quick & Easy (p. 2-8, see fold-out section)

40x80L	3 842 993 728 / ...
Length L (mm)	50 ... 6070
Standard profile finishing $L_{max} = 6000 \text{ mm}$ (note minimum length, p. 2-25)	M12 / D9.8 / D17 / DB17
Individual profile finishing ( $L_{max i} = 5400 \text{ mm}$ )	DI / DIS / MT / MTS / MI / MIS / DG <sup>2)</sup>

- 1) For the specified slots
- 2)  $DG_{max} = 45^\circ$ ;  $L_{min1} / L_{min2} = 439 / 578 \text{ mm}$

40x80L 2N	L (mm)	No.
1 pc	50 ... 6070	3 842 993 877 / L
12 pcs	6070	3 842 555 650

Quick & Easy (p. 2-8, see fold-out section)

40x80L 2N	3 842 993 768 / ...
Length L (mm)	50 ... 6070
Standard profile finishing $L_{max} = 6000 \text{ mm}$ (note minimum length, p. 2-25)	M12 / D9.8 / D17 / DB17
Customized profile finishing ( $L_{max i} = 5400 \text{ mm}$ )	DI / DIS / MT / MTS / MI / MIS / DG <sup>2)</sup>

- 1) For the specified slots
- 2)  $DG_{max} = 45^\circ$ ;  $L_{min1} / L_{min2} = 439 / 578 \text{ mm}$

40x80L 4N	L (mm)	No.
1 pc	50 ... 6070	3 842 993 424 / L
1 pc	6070	3 842 536 485
12 pcs	6070	3 842 536 484

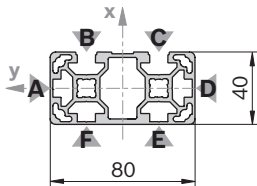
Quick & Easy (p. 2-8, see fold-out section)

40x80L 4N	3 842 993 729 / ...
Length L (mm)	50 ... 6070
Standard profile finishing $L_{max} = 6000 \text{ mm}$ (note minimum length, p. 2-25)	M12 / D9.8 / D17 / DB17
Customized profile finishing ( $L_{max i} = 5400 \text{ mm}$ )	DI / DIS / MT / MTS / MI / MIS / DG <sup>2)</sup>

- 1) For the specified slots
- 2)  $DG_{max} = 45^\circ$ ;  $L_{min1} / L_{min2} = 439 / 578 \text{ mm}$

**40x80L 2NVS**

A = 10,7 cm<sup>2</sup>  
 I<sub>x</sub> = 67,8 cm<sup>4</sup>  
 I<sub>y</sub> = 19,0 cm<sup>4</sup>  
 W<sub>x</sub> = 17,0 cm<sup>3</sup>  
 W<sub>y</sub> = 9,5 cm<sup>3</sup>  
 m = 2,9 kg/m

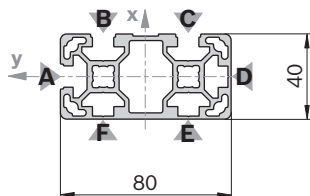


33093

Cover cap: see 40x80

**40x80L 3NVS**

A = 10,6 cm<sup>2</sup>  
 I<sub>x</sub> = 67,8 cm<sup>4</sup>  
 I<sub>y</sub> = 19,0 cm<sup>4</sup>  
 W<sub>x</sub> = 17,0 cm<sup>3</sup>  
 W<sub>y</sub> = 9,5 cm<sup>3</sup>  
 m = 2,9 kg/m

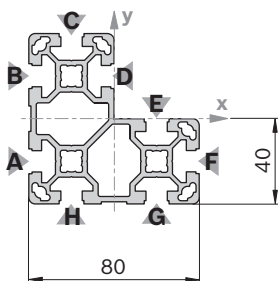


19212

Cover cap: see 40x80

**40x80x80L**

A = 15,4 cm<sup>2</sup>  
 I<sub>x</sub> = 96,6 cm<sup>4</sup>  
 I<sub>y</sub> = 96,6 cm<sup>4</sup>  
 W<sub>x</sub> = 24,2 cm<sup>3</sup>  
 W<sub>y</sub> = 24,2 cm<sup>3</sup>  
 m = 4,2 kg/m



19213

Cover cap	Color	ESD	No.
40x80x80 (1x)	Signal gray	20	3 842 548 790
40x80x80 (1x)	Black	20	3 842 548 791

Material: PP

40x80L 2NVS	L (mm)	No.
1 pc	50 ... 6070	3 842 993 997 / L
12 pcs	6070	3 842 555 649

Quick & Easy (p. 2-8, see fold-out section)

40x80 L 2NVS	3 842 993 767 / ...
Length L (mm)	50 ... 6070
Standard profile finishing L <sub>max</sub> = 6000 mm (note minimum length, p. 2-25)	M12 / D9.8 / D17 / DB17
Customized profile finishing (L <sub>max i</sub> = 5400 mm)	DI / DIS / MT / MTS / MI / MIS / DG <sup>1)</sup>

<sup>1)</sup> DG<sub>max</sub> = 45°; L<sub>min1</sub> / L<sub>min2</sub> = 439 / 578 mm

40x80L 3NVS	L (mm)	No.
1 pc	50 ... 6070	3 842 993 654 / L
1 pc	6070	3 842 538 329
12 pcs	6070	3 842 538 330

Quick & Easy (p. 2-8, see fold-out section)

40x80L 3NVS	3 842 993 753 / ...
Length L (mm)	50 ... 6070
Standard profile finishing L <sub>max</sub> = 6000 mm (note minimum length, p. 2-25)	M12 / D9.8 / D17 / DB17
Customized profile finishing (L <sub>max i</sub> = 5400 mm)	DI / DIS / MT / MTS / MI / MIS / DG <sup>1)</sup>

<sup>1)</sup> DG<sub>max</sub> = 45°; L<sub>min1</sub> / L<sub>min2</sub> = 439 / 578 mm

40x80x80L	L (mm)	No.
1 pc	50 ... 6070	3 842 993 193 / L
1 pc	6070	3 842 529 370
8 pcs	6070	3 842 537 827

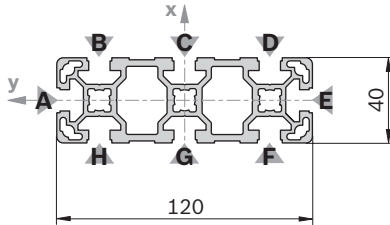
Quick & Easy (p. 2-8, see fold-out section)

40x80x80L	3 842 993 730 / ...
Length L (mm)	50 ... 6070
Standard profile finishing L <sub>max</sub> = 6000 mm (note minimum length, p. 2-25)	M12 / D9.8 / D17 / DB17
Customized profile finishing (L <sub>max i</sub> = 5400 mm)	DI / DIS / MT / MTS / MI / MIS / DG <sup>1)</sup>

<sup>1)</sup> DG<sub>max</sub> = 45°; L<sub>min1</sub> / L<sub>min2</sub> = 439 / 578 mm

### 40x120L

A = 15,5 cm<sup>2</sup>  
 $I_x = 203,2 \text{ cm}^4$   
 $I_y = 27,8 \text{ cm}^4$   
 $W_x = 33,9 \text{ cm}^3$   
 $W_y = 13,9 \text{ cm}^3$   
 m = 4,2 kg/m



19214

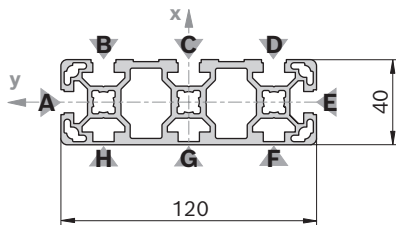
Cover cap	Color	ESD	No.
40x40 (1x)	Signal gray	100	3 842 548 746
40x80 (1x)	Signal gray	20	3 842 548 748
40x40 (1x)	Black	20	3 842 548 747
40x80 (1x)	Black	20	3 842 548 749
Material:	PP		

#### Notice:

For the 40x120L profile you require the following combination of cover caps: 1x 40x40 und 1x 40x80

### 40x120L 5N

A = 15,8 cm<sup>2</sup>  
 $I_x = 212,4 \text{ cm}^4$   
 $I_y = 30,1 \text{ cm}^4$   
 $W_x = 35,3 \text{ cm}^3$   
 $W_y = 15,5 \text{ cm}^3$   
 m = 4,3 kg/m



37612

Cover cap: See 40x120L

40x120L	L (mm)	No.
1 pc	50 ... 6070	3 842 993 139 / L
1 pc M12	60 ... 6000	3 842 993 140 / L
1 pc M12 M12	110 ... 6000	3 842 993 141 / L
1 pc D17	80 ... 6000	3 842 993 142 / L
1 pc D17V	90 ... 6000	3 842 993 225 / L
1 pc	6070	3 842 529 344
8 pcs	6070	3 842 537 824

Profile finishing: M12: in all core holes  
 D17: in slots B/H, C/G, D/F  
 D17V: in slots A/E

Quick & Easy (p. 2-8, see fold-out section)

40x120L	3 842 993 716 / ...
Length L (mm)	50 ... 6070
Standard profile finishing $L_{max} = 6000 \text{ mm}$ (note minimum length, p. 2-25)	M12 / D9.8 (B, C, D, F, G, H) <sup>1)</sup> / D17 (B, C, D, F, G, H) <sup>1)</sup> / DB17 /
Customized profile finishing ( $L_{max i} = 5400 \text{ mm}$ )	DI / DIS / MT / MTS / MI / MIS / DG <sup>2)</sup>

<sup>1)</sup> For the specified slots

<sup>2)</sup>  $DG_{max} = 45^\circ$ ;  $L_{min1} / L_{min2} = 439 / 578 \text{ mm}$

40x120L 5N	L (mm)	No.
1 pc	50 ... 6070	3 842 996 363 / L
8 pcs	6070	3 842 558 480

Quick & Easy (p. 2-8, see fold-out section)

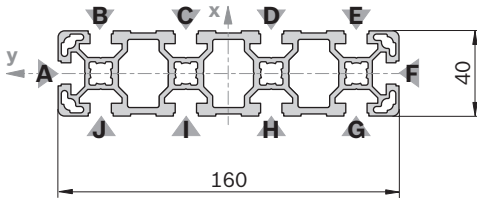
40x120L 5N	3 842 993 771 / ...
Length L (mm)	50 ... 6070
Standard profile finishing $L_{max} = 6000 \text{ mm}$ (note minimum length, p. 2-25)	M12 / D9.8 (B, C, D, F, G, H) <sup>1)</sup> / D17 (B, C, D, F, G, H) <sup>1)</sup> / DB17
Customized profile finishing ( $L_{max i} = 5400 \text{ mm}$ )	DI / DIS / MT / MTS / MI / MIS / DG <sup>2)</sup>

<sup>1)</sup> For the specified slots

<sup>2)</sup>  $DG_{max} = 45^\circ$ ;  $L_{min1} / L_{min2} = 439 / 578 \text{ mm}$

**40x160L**

A = 20,5 cm<sup>2</sup>  
 I<sub>x</sub> = 466,7 cm<sup>4</sup>  
 I<sub>y</sub> = 37,2 cm<sup>4</sup>  
 W<sub>x</sub> = 58,3 cm<sup>3</sup>  
 W<sub>y</sub> = 18,6 cm<sup>3</sup>  
 m = 5,5 kg/m



19215

Cover cap	Color	ESD	No.
40x80 (2x)	Signal gray	20	3 842 548 748
40x80 (2x)	Black	20	3 842 548 749
Material:	PP		

40x160L	L (mm)	No.
1 pc	50 ... 6070	3 842 993 143 / L
1 pc M12	60 ... 6000	3 842 993 144 / L
1 pc M12 M12	110 ... 6000	3 842 993 145 / L
1 pc D17 D17	80 ... 6000	3 842 993 146 / L
1 pc	6070	3 842 529 346
6 pcs	6070	3 842 529 345

Profile finishing: M12: in all core holes  
 D17: in slots B/J, C/I, D/H, E/G

**Quick & Easy** (p. 2-8, see fold-out section)

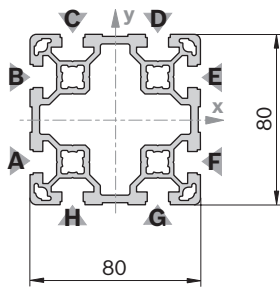
40x160L	3 842 993 717 / ...
Length L (mm)	80 ... 6070
Standard profile finishing L <sub>max</sub> = 6000 mm (note minimum length, p. 2-25)	M12 / D9.8 (B,C,D,E,G,H, I,J) <sup>1)</sup> / D17 (B,C,D,E,G,H, I,J) <sup>1)</sup> / DB17
Customized profile finishing (L <sub>max i</sub> = 5400 mm)	DI / DIS / MT / MTS / MI / MIS / DG <sup>2)</sup>

<sup>1)</sup> For the specified slots

<sup>2)</sup> DG<sub>max</sub> = 45°; L<sub>min1</sub> / L<sub>min2</sub> = 439 / 578 mm

**80x80L**

A = 18,2 cm<sup>2</sup>  
 $I_x = 132,1 \text{ cm}^4$   
 $I_y = 132,1 \text{ cm}^4$   
 $W_x = 33,0 \text{ cm}^3$   
 $W_y = 33,0 \text{ cm}^3$   
 m = 4,9 kg/m



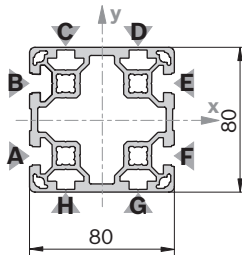
19216

Cover cap	Color	ESD	No.
80x80 (1x)	Signal gray	20	3 842 548 750
80x80 (1x)	Black	20	3 842 548 751

Material: PP

**80x80L 4N**

A = 19,1 cm<sup>2</sup>  
 $I_x = 142,5 \text{ cm}^4$   
 $I_y = 142,5 \text{ cm}^4$   
 $W_x = 35,6 \text{ cm}^3$   
 $W_y = 35,6 \text{ cm}^3$   
 m = 5,2 kg/m



36363

Cover cap	Color	ESD	No.
80x80 (1x)	Signal gray	20	3 842 548 750
80x80 (1x)	Black	20	3 842 548 751

Material: PP

80x80L	L (mm)	No.
1 pc	50 ... 6070	3 842 993 133 / L
1 pc M12	60 ... 6000	3 842 993 134 / L
1 pc M12 M12	110 ... 6000	3 842 993 147 / L
1 pc M12 D17	90 ... 6000	3 842 993 148 / L
1 pc D17	60 ... 6000	3 842 993 149 / L
1 pc D17 D17	80 ... 6000	3 842 993 150 / L
1 pc D17 D17V	80 ... 6000	3 842 993 151 / L
1 pc	6070	3 842 529 348
6 pcs	6070	3 842 529 347

Profile finishing: M12: in all core holes  
 D17: in slots A/F, B/E  
 D17V: in slots C/H, D/G

Quick & Easy (p. 2-8, see fold-out section)

80x80L	3 842 993 674 / ...
Length L (mm)	50 ... 6070
Standard profile finishing $L_{max} = 6000 \text{ mm}$ (note minimum length, p. 2-25)	M12 / D9.8 / D17 / DB17
Customized profile finishing ( $L_{max i} = 5400 \text{ mm}$ )	DI / DIS / MT / MTS / MI / MIS / DG <sup>1)</sup>

<sup>1)</sup>  $DG_{max} = 45^\circ$ ;  $L_{min1} / L_{min2} = 439 / 578 \text{ mm}$

80x80L 4N	L (mm)	No.
1 pc	50 ... 6070	3 842 994 173 / L
6 pcs	6070	3 842 555 651

Quick & Easy (p. 2-8, see fold-out section)

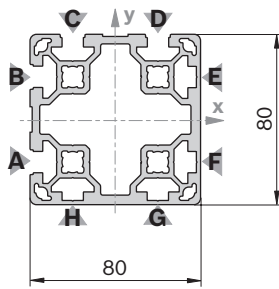
80x80L 4N	3 842 993 769 / ...
Length L (mm)	50 ... 6070
Standard profile finishing $L_{max} = 6000 \text{ mm}$ (note minimum length, p. 2-25)	M12 / D9.8 / D17 / DB17
Customized profile finishing ( $L_{max i} = 5400 \text{ mm}$ )	DI / DIS / MT / MTS / MI / MIS / DG <sup>2)</sup>

<sup>1)</sup> For the specified slots

<sup>2)</sup>  $DG_{max} = 45^\circ$ ;  $L_{min1} / L_{min2} = 439 / 578 \text{ mm}$

**80x80L 4NVS**

A = 19,3 cm<sup>2</sup>  
 I<sub>x</sub> = 142,5 cm<sup>4</sup>  
 I<sub>y</sub> = 142,5 cm<sup>4</sup>  
 W<sub>x</sub> = 35,6 cm<sup>3</sup>  
 W<sub>y</sub> = 35,6 cm<sup>3</sup>  
 m = 5,2 kg/m



Cover cap: see 80x80

<b>80x80L 4NVS</b>		<b>L (mm)</b>	<b>No.</b>
1 pc		50 ... 6070	<b>3 842 993 658 / L</b>
1 pc		6070	<b>3 842 538 333</b>
6 pcs		6070	<b>3 842 538 334</b>

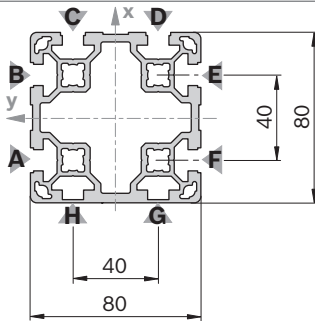
**Quick & Easy** (p. 2-8, see fold-out section)

<b>80x80L 4NVS</b>		<b>3 842 993 758 / ...</b>	
Length L (mm)		50 ... 6070	
Standard profile finishing L <sub>max</sub> = 6000 mm (note minimum length, p. 2-25)		M12 / D9.8 / D17 / DB17	
Customized profile finishing (L <sub>max i</sub> = 5400 mm)		DI / DIS / MT / MTS / MI / MIS / DG <sup>1)</sup>	

<sup>1)</sup> DG<sub>max</sub> = 45°; L<sub>min1</sub> / L<sub>min2</sub> = 439 / 578 mm

**80x80L 6N**

A = 18,8 cm<sup>2</sup>  
 I<sub>x</sub> = 134,1 cm<sup>4</sup>  
 I<sub>y</sub> = 140,9 cm<sup>4</sup>  
 W<sub>x</sub> = 33,5 cm<sup>3</sup>  
 W<sub>y</sub> = 36,2 cm<sup>3</sup>  
 m = 5,1 kg/m



Cover cap: see 80x80

<b>80x80L 6N</b>		<b>L (mm)</b>	<b>No.</b>
1 pc		50 ... 6070	<b>3 842 993 423 / L</b>
1 pc		6070	<b>3 842 536 482</b>
6 pcs		6070	<b>3 842 536 481</b>

**Quick & Easy** (p. 2-8, see fold-out section)

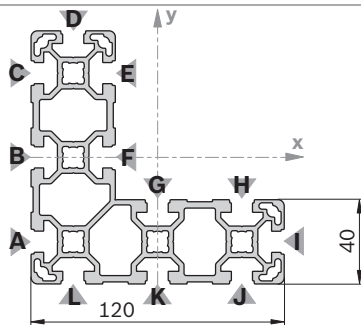
<b>80x80L 6N</b>		<b>3 842 993 675 / ...</b>	
Length L (mm)		50 ... 6070	
Standard profile finishing L <sub>max</sub> = 6000 mm (note minimum length, p. 2-25)		M12 / D9.8 / D17 / DB17	
Customized profile finishing (L <sub>max i</sub> = 5400 mm)		DI / DIS / MT / MTS / MI / MIS / DG <sup>2)</sup>	

<sup>1)</sup> For the specified slots

<sup>2)</sup> DG<sub>max</sub> = 45°; L<sub>min1</sub> / L<sub>min2</sub> = 439 / 578 mm

**40x120x120L**

A = 24,6 cm<sup>2</sup>  
 I<sub>x</sub> = 318,0 cm<sup>4</sup>  
 I<sub>y</sub> = 318,0 cm<sup>4</sup>  
 W<sub>x</sub> = 42,2 cm<sup>3</sup>  
 W<sub>y</sub> = 42,2 cm<sup>3</sup>  
 m = 6,7 kg/m



<b>Cover cap</b>	<b>Color</b>	<b>ESD</b>	<b>No.</b>
<b>40x40 (5x)</b>	Signal gray	100	<b>3 842 548 746</b>
<b>40x80 (2x)</b>	Signal gray	20	<b>3 842 548 748</b>
<b>40x40 (1x)</b>	Signal gray	100	<b>3 842 548 746</b>
<b>40x40 (5x)</b>	Black		<b>3 842 548 747</b>
<b>40x80 (2x)</b>	Black		<b>3 842 548 749</b>
<b>40x40 (1x)</b>	Black		<b>3 842 548 747</b>

Material: PP

**Notice:**

For the 40x120x120L profile you require the following combination of cover caps: 5x 40x40 or 2x 40x80 and 1x 40x40

<b>40x120x120L</b>		<b>L (mm)</b>	<b>No.</b>
1 pc		50 ... 6070	<b>3 842 993 653 / L</b>
1 pc		6070	<b>3 842 538 252</b>
4 pcs		6070	<b>3 842 538 287</b>

**Quick & Easy** (p. 2-8, see fold-out section)

<b>40x120x120L</b>		<b>3 842 993 757 / ...</b>	
Length L (mm)		50 ... 6070	
Standard profile finishing L <sub>max</sub> = 6000 mm (note minimum length, p. 2-25)		M12 / D9.8 (B,C,J,K) <sup>1)</sup> / D17 / DB17 (A,B,C,D,I, J,K,L) <sup>1)</sup>	
Customized profile finishing (L <sub>max i</sub> = 5400 mm)		DI / DIS / MT / MTS / MI / MIS / DG <sup>2)</sup>	

<sup>1)</sup> For the specified slots

<sup>2)</sup> DG<sub>max</sub> = 45°; L<sub>min1</sub> / L<sub>min2</sub> = 420 / 540 mm

**80x120L**

A = 25,6 cm<sup>2</sup>  
 $I_x = 389,2 \text{ cm}^4$   
 $I_y = 192,8 \text{ cm}^4$   
 $W_x = 64,9 \text{ cm}^3$   
 $W_y = 48,2 \text{ cm}^3$   
 $m = 6,9 \text{ kg/m}$

19419

Cover cap	Color	ESD	No.
80x120 (1x)	Signal gray	20	3 842 548 792
80x120 (1x)	Black	20	3 842 548 793

Material: PP

80x120L	L (mm)	No.
1 pc	50 ... 6070	3 842 993 201 / L
1 pc M12	60 ... 6000	3 842 993 202 / L
1 pc M12 M12	110 ... 6000	3 842 993 203 / L
1 pc D17 D17	80 ... 6000	3 842 993 204 / L
1 pc D17V D17V	90 ... 6000	3 842 993 229 / L
1 pc	6070	3 842 529 380
4 pcs	6070	3 842 537 828

Profile finishing: M12: in all core holes  
 D17: in slots C/J, D/I, E/H  
 D17V: in slots A/G, B/F

Quick & Easy (p. 2-8, see fold-out section)

80x120L	3 842 993 672 / ...
Length L (mm)	50 ... 6070
Standard profile finishing $L_{max} = 6000 \text{ mm}$ (note minimum length, p. 2-25)	M12 / D9.8 (C,D,E,H,I, J) <sup>1)</sup> / D17 (C,D,E,H,I,J) <sup>1)</sup> / DB17
Customized profile finishing ( $L_{max i} = 5400 \text{ mm}$ )	DI / DIS / MT / MTS / MI / MIS / DG <sup>2)</sup>

<sup>1)</sup> For the specified slots

<sup>2)</sup>  $DG_{max} = 45^\circ$ ;  $L_{min1} / L_{min2} = 439 / 578 \text{ mm}$

**80x160L**

A = 32,9 cm<sup>2</sup>  
 $I_x = 850,7 \text{ cm}^4$   
 $I_y = 253,4 \text{ cm}^4$   
 $W_x = 106,3 \text{ cm}^3$   
 $W_y = 63,4 \text{ cm}^3$   
 $m = 8,9 \text{ kg/m}$

19420

Cover cap	Color	ESD	No.
80x80 (2x)	Signal gray	20	3 842 548 750
80x80 (2x)	Black	20	3 842 548 751

Material: PP

80x160L	L (mm)	No.
1 pc	50 ... 6070	3 842 993 127 / L
1 pc M12	60 ... 6000	3 842 993 128 / L
1 pc M12 M12	110 ... 6000	3 842 993 152 / L
1 pc M12 D17	90 ... 6000	3 842 993 153 / L
1 pc D17	60 ... 6000	3 842 993 154 / L
1 pc D17 D17	80 ... 6000	3 842 993 155 / L
1 pc D17V D17V	90 ... 6000	3 842 993 226 / L
1 pc	6070	3 842 529 350
3 pcs	6070	3 842 529 349

Profile finishing: M12: in all core holes  
 D17: in slots C/L, D/K, E/J, F/I  
 D17V: in slots A/H, B/G

Quick & Easy (p. 2-8, see fold-out section)

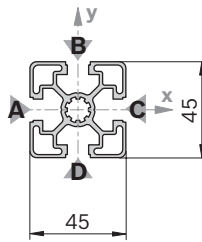
80x160L	3 842 993 673 / ...
Length L (mm)	80 ... 6070
Standard profile finishing $L_{max} = 6000 \text{ mm}$ (note minimum length, p. 2-25)	M12 / D9.8 (C,D,E,F,I, J,K,L) <sup>1)</sup> / D17 (C,D,E,F,I,J, K,L) <sup>1)</sup> / DB17
Customized profile finishing ( $L_{max i} = 5400 \text{ mm}$ )	DI / DIS / MT / MTS / MI / MIS / DG <sup>2)</sup>

<sup>1)</sup> For the specified slots

<sup>2)</sup>  $DG_{max} = 45^\circ$ ;  $L_{min1} / L_{min2} = 460 / 620 \text{ mm}$

**45x45L**

A = 6,0 cm<sup>2</sup>  
 I<sub>x</sub> = 11,7 cm<sup>4</sup>  
 I<sub>y</sub> = 11,7 cm<sup>4</sup>  
 W<sub>x</sub> = 5,2 cm<sup>3</sup>  
 W<sub>y</sub> = 5,2 cm<sup>3</sup>  
 m = 1,6 kg/m



19421

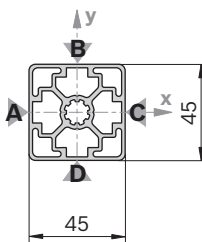
Cover cap	Color	ESD	No.
45x45 (1x)	Signal gray	100	3 842 548 752
45x45 (1x)	Black	20	3 842 548 753
Material:	PP		

Cover cap with hole	Color	ESD	No.
45x45 (1x)	Signal gray	20	3 842 548 796
45x45 (1x)	Black	20	3 842 548 797
Material:	PP		

Cover cap ZN	ESD No.	FS
45x45-ZN	3 842 518 205	FS2
Material:	Cover cap: Diecast zinc Fastening material: Steel; zinc-plated	

**45x45L ON**

A = 6,7 cm<sup>2</sup>  
 I<sub>x</sub> = 13,5 cm<sup>4</sup>  
 I<sub>y</sub> = 13,5 cm<sup>4</sup>  
 W<sub>x</sub> = 6,0 cm<sup>3</sup>  
 W<sub>y</sub> = 6,0 cm<sup>3</sup>  
 m = 1,8 kg/m



19422

Cover cap: see 45x45

45x45L	L (mm)	No.
1 pc	50 ... 6070	3 842 992 425 / L
1 pc M12	60 ... 6000	3 842 992 426 / L
1 pc M12 M12	110 ... 6000	3 842 992 427 / L
1 pc M12 D17	90 ... 6000	3 842 992 960 / L
1 pc D9,8 D9,8	80 ... 6000	3 842 992 967 / L
1 pc D17 D17	60 ... 6000	3 842 992 953 / L
1 pc D17 D17	80 ... 6000	3 842 992 954 / L
1 pc D17 D17V	80 ... 6000	3 842 992 956 / L
1 pc	6070	3 842 553 618
20 pcs	6070	3 842 553 611

Quick & Easy (p. 2-8, see fold-out section)

45x45L	3 842 993 737 / ...
Length L (mm)	50 ... 6070
Standard profile finishing L <sub>max</sub> = 6000 mm (note minimum length, p. 2-25)	M12 / D9.8 / D17 / DB17 / F1 (A) <sup>1)</sup>
Customized profile finishing (L <sub>max i</sub> = 5400 mm)	DI / DIS / MT / MTS / MI / MIS / DG <sup>2)</sup>

<sup>1)</sup> For the specified slots

<sup>2)</sup> DG<sub>max</sub> = 45°; L<sub>min1</sub> / L<sub>min2</sub> = 378 / 456 mm



45x45L ON	L (mm)	No.
1 pc	50 ... 6070	3 842 994 174 / L
20 pcs	6070	3 842 540 955

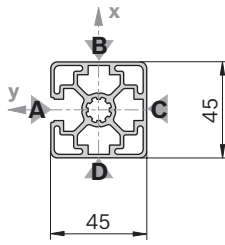
Quick & Easy (p. 2-8, see fold-out section)

45x45L ON	3 842 993 761 / ...
Length L (mm)	50 ... 6070
Standard profile finishing L <sub>max</sub> = 6000 mm (note minimum length, p. 2-25)	M12 / D9.8 / D17 / DB17
Customized profile finishing (L <sub>max i</sub> = 5400 mm)	DI / DIS / MT / MTS / MI / MIS / DG <sup>1)</sup>

<sup>1)</sup> DG<sub>max</sub> = 45°; L<sub>min1</sub> / L<sub>min2</sub> = 378 / 456 mm

**45x45L 1N**

A = 6,5 cm<sup>2</sup>  
 $I_x = 12,6 \text{ cm}^4$   
 $I_y = 13,5 \text{ cm}^4$   
 $W_x = 5,5 \text{ cm}^3$   
 $W_y = 6,0 \text{ cm}^3$   
 m = 1,8 kg/m



19423

Cover cap: see 45x45

<b>45x45L 1N</b>		<b>L (mm)</b>	<b>No.</b>
1 pc		50 ... 6070	<b>3 842 992 401 / L</b>
1 pc		6070	<b>3 842 557 232</b>
	20 pcs	6070	<b>3 842 557 222</b>

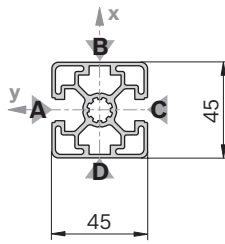
**Quick & Easy** (p. 2-8, see fold-out section)

<b>45x45L 1N</b>		<b>3 842 993 738 / ...</b>	
Length L (mm)		50 ... 6070	
Standard profile finishing $L_{max} = 6000 \text{ mm}$ (note minimum length, p. 2-25)		M12 / D9.8 / D17 / DB17	
Customized profile finishing ( $L_{max i} = 5400 \text{ mm}$ )		DI / DIS / MT / MTS / MI / MIS / DG <sup>1)</sup>	

<sup>1)</sup>  $DG_{max} = 45^\circ$ ;  $L_{min1} / L_{min2} = 378 / 456 \text{ mm}$

**45x45L 2N**

A = 6,4 cm<sup>2</sup>  
 $I_x = 11,6 \text{ cm}^4$   
 $I_y = 13,5 \text{ cm}^4$   
 $W_x = 5,2 \text{ cm}^3$   
 $W_y = 6,0 \text{ cm}^3$   
 m = 1,7 kg/m



19424

Cover cap: see 45x45

<b>45x45L 2N</b>		<b>L (mm)</b>	<b>No.</b>
1 pc		50 ... 6070	<b>3 842 992 403 / L</b>
1 pc		6070	<b>3 842 557 234</b>
	20 pcs	6070	<b>3 842 557 224</b>

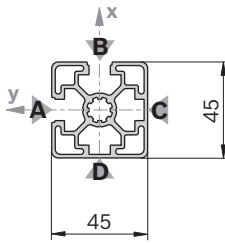
**Quick & Easy** (p. 2-8, see fold-out section)

<b>45x45L 2N</b>		<b>3 842 993 739 / ...</b>	
Length L (mm)		50 ... 6070	
Standard profile finishing $L_{max} = 6000 \text{ mm}$ (note minimum length, p. 2-25)		M12 / D9.8 / D17 / DB17	
Customized profile finishing ( $L_{max i} = 5400 \text{ mm}$ )		DI / DIS / MT / MTS / MI / MIS / DG <sup>1)</sup>	

<sup>1)</sup>  $DG_{max} = 45^\circ$ ;  $L_{min1} / L_{min2} = 378 / 456 \text{ mm}$

**45x45L 2NVS**

A = 6,4 cm<sup>2</sup>  
 $I_x = 12,6 \text{ cm}^4$   
 $I_y = 12,6 \text{ cm}^4$   
 $W_x = 5,6 \text{ cm}^3$   
 $W_y = 5,6 \text{ cm}^3$   
 m = 1,7 kg/m



19425

Cover cap: see 45x45

<b>45x45L 2NVS</b>		<b>L (mm)</b>	<b>No.</b>
1 pc		50 ... 6070	<b>3 842 992 402 / L</b>
1 pc		6070	<b>3 842 557 233</b>
	20 pcs	6070	<b>3 842 557 223</b>

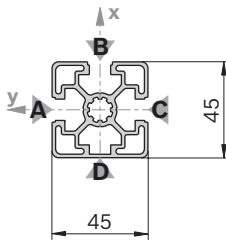
**Quick & Easy** (p. 2-8, see fold-out section)

<b>45x45L 2NVS</b>		<b>3 842 993 740 / ...</b>	
Length L (mm)		50 ... 6070	
Standard profile finishing $L_{max} = 6000 \text{ mm}$ (note minimum length, p. 2-25)		M12 / D9.8 / D17 / DB17	
Customized profile finishing ( $L_{max i} = 5400 \text{ mm}$ )		DI / DIS / MT / MTS / MI / MIS / DG <sup>1)</sup>	

<sup>1)</sup>  $DG_{max} = 45^\circ$ ;  $L_{min1} / L_{min2} = 378 / 456 \text{ mm}$

**45x45L 3N**

A = 6,2 cm<sup>2</sup>  
 I<sub>x</sub> = 12,6 cm<sup>4</sup>  
 I<sub>y</sub> = 11,7 cm<sup>4</sup>  
 W<sub>x</sub> = 5,4 cm<sup>3</sup>  
 W<sub>y</sub> = 5,2 cm<sup>3</sup>  
 m = 1,7 kg/m



19426

Cover cap: see 45x45

45x45L 3N		L (mm)	No.
1 pc		50 ... 6070	<b>3 842 992 404 / L</b>
1 pc		6070	<b>3 842 557 235</b>
20 pcs		6070	<b>3 842 557 225</b>

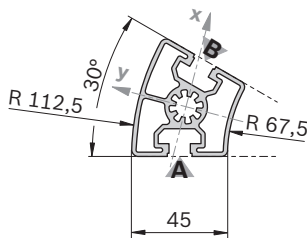
**Quick & Easy** (p. 2-8, see fold-out section)

45x45L 3N		3 842 993 741 / ...
Length L (mm)	50 ... 6070	
Standard profile finishing L <sub>max</sub> = 6000 mm (note minimum length, p. 2-25)	M12 / D9.8 / D17 / DB17	
Customized profile finishing (L <sub>max i</sub> = 5400 mm)	DI / DIS / MT / MTS / MI / MIS / DG <sup>1)</sup>	

<sup>1)</sup> DG<sub>max</sub> = 45°; L<sub>min1</sub> / L<sub>min2</sub> = 378 / 456 mm

**45x30°**

A = 6,9 cm<sup>2</sup>  
 I<sub>x</sub> = 12,7 cm<sup>4</sup>  
 I<sub>y</sub> = 15,2 cm<sup>4</sup>  
 W<sub>x</sub> = 5,0 cm<sup>3</sup>  
 W<sub>y</sub> = 5,3 cm<sup>3</sup>  
 m = 1,9 kg/m



19427

45x30°		L (mm)	No.
1 pc		50 ... 6070	<b>3 842 993 013 / L</b>
1 pc		6070	<b>3 842 558 316</b>
20 pcs		6070	<b>3 842 557 954</b>

**Quick & Easy** (p. 2-8, see fold-out section)

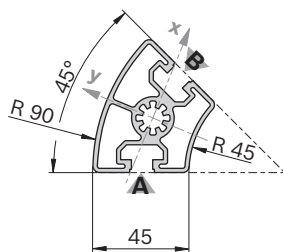
45x30°		3 842 993 733 / ...
Length L (mm)	50 ... 6070	
Standard profile finishing L <sub>max</sub> = 6000 mm (note minimum length, p. 2-25)	M12	
Customized profile finishing	—	

Cover cap	Color	ESD		No.
45x30° (1x)	Signal gray	20		<b>3 842 551 020</b>
45x30° (1x)	Black		20	<b>3 842 551 021</b>

Material: PP

**45x45°**

A = 7,6 cm<sup>2</sup>  
 I<sub>x</sub> = 13,4 cm<sup>4</sup>  
 I<sub>y</sub> = 21,4 cm<sup>4</sup>  
 W<sub>x</sub> = 5,2 cm<sup>3</sup>  
 W<sub>y</sub> = 6,4 cm<sup>3</sup>  
 m = 2,0 kg/m



19428

45x45°		L (mm)	No.
1 pc		50 ... 6070	<b>3 842 993 014 / L</b>
1 pc		6070	<b>3 842 558 317</b>
20 pcs		6070	<b>3 842 557 955</b>

**Quick & Easy** (p. 2-8, see fold-out section)

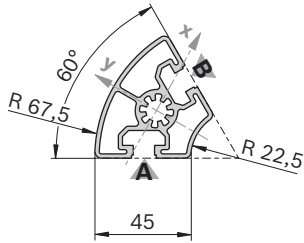
45x45°		3 842 993 735 / ...
Length L (mm)	50 ... 6070	
Standard profile finishing L <sub>max</sub> = 6000 mm (note minimum length, p. 2-25)	M12	
Customized profile finishing	—	

Cover cap	Color	ESD		No.
45x45° (1x)	Signal gray	20		<b>3 842 551 022</b>
45x45° (1x)	Black		20	<b>3 842 551 023</b>

Material: PP

**45x60°**

A = 6,8 cm<sup>2</sup>  
 $I_x = 11,4 \text{ cm}^4$   
 $I_y = 16,9 \text{ cm}^4$   
 $W_x = 4,4 \text{ cm}^3$   
 $W_y = 5,2 \text{ cm}^3$   
 m = 1,8 kg/m



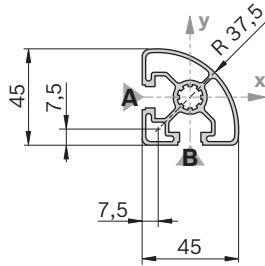
19429

Cover cap	Color	ESD	No.
45x60° (1x)	Signal gray	20	3 842 551 024
45x60° (1x)	Black	20	3 842 551 025

Material: PP

**45x45L R**

A = 4,9 cm<sup>2</sup>  
 $I_x = 8,6 \text{ cm}^4$   
 $I_y = 8,6 \text{ cm}^4$   
 $W_x = 5,0 \text{ cm}^3$   
 $W_y = 5,0 \text{ cm}^3$   
 m = 1,3 kg/m



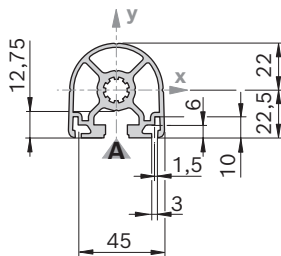
19430

Cover cap	Color	ESD	No.
45x45 R (1x)	Signal gray	20	3 842 548 800
45x45 R (1x)	Black	20	3 842 548 801

Material: PP

**45x45 HR**

A = 6,6 cm<sup>2</sup>  
 $I_x = 11,0 \text{ cm}^4$   
 $I_y = 10,7 \text{ cm}^4$   
 $W_x = 4,8 \text{ cm}^3$   
 $W_y = 4,4 \text{ cm}^3$   
 m = 1,8 kg/m



19431

Cover cap	Color	ESD	No.
45x45 HR (1x)	Signal gray	20	3 842 548 798
45x45 HR (1x)	Black	20	3 842 548 799

Material: PP

45x60°	L (mm)	No.
1 pc	50 ... 6070	3 842 993 015 / L
1 pc	6070	3 842 558 318
20 pcs	6070	3 842 557 956

Quick & Easy (p. 2-8, see fold-out section)

45x60°	3 842 993 744 / ...
Length L (mm)	50 ... 6070
Standard profile finishing $L_{max} = 6000 \text{ mm}$	M12
(note minimum length, p. 2-25)	
Customized profile finishing	—

45x45L R	L (mm)	No.
1 pc	50 ... 6070	3 842 992 897 / L
1 pc	6070	3 842 558 310
20 pcs	6070	3 842 557 948

Quick & Easy (p. 2-8, see fold-out section)

45x45L R	3 842 993 742 / ...
Length L (mm)	50 ... 6070
Standard profile finishing $L_{max} = 6000 \text{ mm}$	M12 / DB17
(note minimum length, p. 2-25)	
Customized profile finishing	—

45x45 HR	L (mm)	No.
1 pc	50 ... 6070	3 842 992 945 / L
1 pc M12	60 ... 6000	3 842 993 001 / L
1 pc M12	110 ... 6000	3 842 992 999 / L
1 pc	6070	3 842 558 319
20 pcs	6070	3 842 557 957

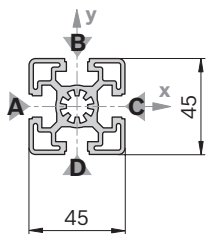
Quick & Easy (p. 2-8, see fold-out section)

45x45 HR	3 842 993 736 / ...
Length L (mm)	50 ... 6070
Standard profile finishing $L_{max} = 6000 \text{ mm}$	M12 / DB17
(note minimum length, p. 2-25)	
Customized profile finishing	DI / DIS / MT / MTS / MI / MIS / DG <sup>1)</sup>
( $L_{max i} = 5400 \text{ mm}$ )	

<sup>1)</sup>  $DG_{max} = 45^\circ$ ;  $L_{min1} / L_{min2} = 378 / 456 \text{ mm}$

**45x45**

$A = 7,5 \text{ cm}^2$   
 $I_x = 13,8 \text{ cm}^4$   
 $I_y = 13,8 \text{ cm}^4$   
 $W_x = 6,1 \text{ cm}^3$   
 $W_y = 6,1 \text{ cm}^3$   
 $m = 2,0 \text{ kg/m}$



19432

Cover cap	Color	ESD	No.
45x45 (1x)	Signal gray	100	3 842 548 752
45x45 (1x)	Black	20	3 842 548 753
Material:	PP		

Cover cap with hole	Color	ESD	No.
45x45 (1x)	Signal gray	20	3 842 548 796
45x45 (1x)	Black	20	3 842 548 797
Material:	PP		

45x45	L (mm)	No.
1 pc	50 ... 6070	3 842 990 520 / L
1 pc M12	60 ... 6000	3 842 990 517 / L
1 pc M12-M12	110 ... 6000	3 842 990 518 / L
1 pc M12-M16	180 ... 6000	3 842 990 519 / L
1 pc M12-D17	90 ... 6000	3 842 990 640 / L
1 pc M16	120 ... 6000	3 842 990 521 / L
1 pc M16-D17	170 ... 6000	3 842 990 642 / L
1 pc D9,8-D9,8	70 ... 6000	3 842 992 969 / L
1 pc D17	60 ... 6000	3 842 990 648 / L
1 pc D17-D17	80 ... 6000	3 842 990 644 / L
1 pc D17-D17V	80 ... 6000	3 842 990 646 / L
1 pc	6070	3 842 553 621
20 pcs	6070	3 842 553 614

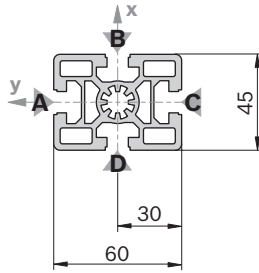
**Quick & Easy** (p. 2-8, see fold-out section)

45x45	3 842 993 734 / ...
Length L (mm)	50 ... 6070
Standard profile finishing $L_{max} = 6000 \text{ mm}$ (note minimum length, p. 2-25)	M12 / M16 / D9.8 / D17 / DB17
Customized profile finishing ( $L_{max i} = 5400 \text{ mm}$ )	DI / DIS / MT / MTS / MI / MIS / DG <sup>1)</sup>

<sup>1)</sup>  $DG_{max} = 45^\circ$ ;  $L_{min1} / L_{min2} = 378 / 456 \text{ mm}$

**45x60**

A = 11,0 cm<sup>2</sup>  
 $I_x = 37,2 \text{ cm}^4$   
 $I_y = 22,7 \text{ cm}^4$   
 $W_x = 12,4 \text{ cm}^3$   
 $W_y = 10,1 \text{ cm}^3$   
 m = 3,0 kg/m



Cover cap	Color	ESD	No.
45x60 (1x)	Signal gray	20	3 842 548 754
45x60 (1x)	Black	20	3 842 548 755

Material: PP

Cover cap with hole	Color	ESD	No.
45x60 (1x)	Signal gray	20	3 842 548 802
45x60 (1x)	Black	20	3 842 548 803

Material: PP

45x60	L (mm)	No.
1 pc	50 ... 6070	3 842 990 570 / L
1 pc M12	60 ... 6000	3 842 990 571 / L
1 pc M12-M12	110 ... 6000	3 842 990 572 / L
1 pc M12-M16	180 ... 6000	3 842 990 575 / L
1 pc M16	120 ... 6000	3 842 990 573 / L
1 pc D9,8	50 ... 6000	3 842 992 376 / L
1 pc D17	60 ... 6000	3 842 990 688 / L
1 pc D17-D17	80 ... 6000	3 842 990 672 / L
1 pc D17-DB17V	80 ... 6000	3 842 990 674 / L
1 pc D9,8V	50 ... 6000	3 842 992 375 / L
1 pc D17V	60 ... 6000	3 842 990 690 / L
1 pc D17V-DB17V	80 ... 6000	3 842 990 670 / L
1 pc LF-LF	80 ... 6000	3 842 993 085 / L
1 pc F1-F1	80 ... 6000	3 842 990 584 / L
1 pc	6070	3 842 557 210
20 pcs	6070	3 842 557 200

Profile finishing D9.8, D17: in slots B/D  
 D9.8V, D17V: in slots A/C  
 LF: in slots A/C  
 F1: in slot A

Quick & Easy (p. 2-8, see fold-out section)

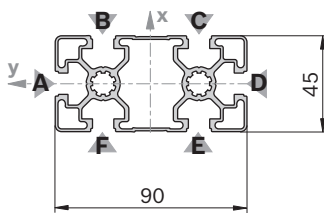
45x60	3 842 993 743 / ...
Length L (mm)	50 ... 6070
Standard profile finishing $L_{max} = 6000 \text{ mm}$ (note minimum length, p. 2-25)	M12 / M16 / D9.8 / D17 / DB17 / F1 (A,C) <sup>1)</sup>
Customized profile finishing ( $L_{max i} = 5400 \text{ mm}$ )	DI / DIS / MT / MTS / MI / MIS / DG <sup>2)</sup>

<sup>1)</sup> For the specified slots

<sup>2)</sup>  $DG_{max} = 45^\circ$ ;  $L_{min1} / L_{min2} = 404 / 508 \text{ mm}$

**45x90SL**

A = 9,0 cm<sup>2</sup>  
 $I_x = 73,4 \text{ cm}^4$   
 $I_y = 18,1 \text{ cm}^4$   
 $W_x = 16,3 \text{ cm}^3$   
 $W_y = 8,0 \text{ cm}^3$   
 m = 2,4 kg/m



Cover cap	Color	ESD	No.
45x90 (1x)	Signal gray	20	3 842 548 756
45x90 (1x)	Black	20	3 842 548 757

Material: PP

Cover cap with hole	Color	ESD	No.
45x90 (1x)	Signal gray	20	3 842 548 804
45x90 (1x)	Black	20	3 842 548 805

Material: PP

45x90SL	L (mm)	No.
1 pc	50 ... 6070	3 842 993 450 / L
1 pc	6070	3 842 537 103
12 pcs	6070	3 842 537 102

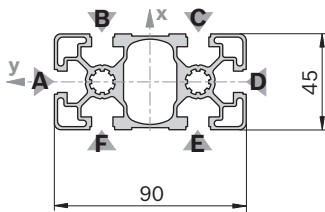
Quick & Easy (p. 2-8, see fold-out section)

45x90SL	3 842 993 759 / ...
Length L (mm)	50 ... 6070
Standard profile finishing $L_{max} = 6000 \text{ mm}$ (note minimum length, p. 2-25)	M12 / D9.8 / D17 / DB17
Customized profile finishing ( $L_{max i} = 5400 \text{ mm}$ )	DI / DIS / DG <sup>1)</sup>

<sup>1)</sup>  $DG_{max} = 45^\circ$ ;  $L_{min1} / L_{min2} = 456 / 612 \text{ mm}$

**45x90L**

A = 11,3 cm<sup>2</sup>  
 I<sub>x</sub> = 82,0 cm<sup>4</sup>  
 I<sub>y</sub> = 23,6 cm<sup>4</sup>  
 W<sub>x</sub> = 18,2 cm<sup>3</sup>  
 W<sub>y</sub> = 10,5 cm<sup>3</sup>  
 m = 3,0 kg/m



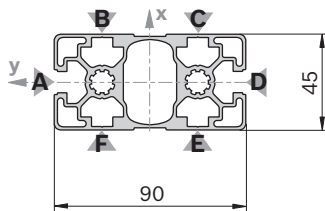
19435

Cover cap	Color	ESD	No.
45x90 (1x)	Signal gray	20	3 842 548 756
45x90 (1x)	Black	20	3 842 548 757
Material:	PP		

Cover cap with hole	Color	ESD	No.
45x90 (1x)	Signal gray	20	3 842 548 804
45x90 (1x)	Black	20	3 842 548 805
Material:	PP		

**45x90L 2N**

A = 12,0 cm<sup>2</sup>  
 I<sub>x</sub> = 85,6 cm<sup>4</sup>  
 I<sub>y</sub> = 26,9 cm<sup>4</sup>  
 W<sub>x</sub> = 38,1 cm<sup>3</sup>  
 W<sub>y</sub> = 6,0 cm<sup>3</sup>  
 m = 3,2 kg/m



36364

Cover cap: see 45x90

45x90L	L (mm)	No.
1 pc	50 ... 6070	3 842 992 432 / L
1 pc M12	60 ... 6000	3 842 992 453 / L
1 pc M12 M12	110 ... 6000	3 842 992 433 / L
1 pc D17 D17	80 ... 6000	3 842 992 437 / L
1 pc D17 D17V	80 ... 6000	3 842 992 436 / L
1 pc D17V	60 ... 6000	3 842 992 452 / L
1 pc D17V D17V	80 ... 6000	3 842 992 435 / L
1 pc LF LF	80 ... 6000	3 842 993 084 / L
1 pc	6070	3 842 553 619
12 pcs	6070	3 842 553 612

Profile finishing: M12: in all core holes  
 D17: in slots B/F, C/E  
 D17V: in slots A/D  
 LF: in slots A/D

Quick & Easy (p. 2-8, see fold-out section)

45x90L	No.
3 842 993 662 / ...	
Length L (mm)	50 ... 6070
Standard profile finishing L <sub>max</sub> = 6000 mm (note minimum length, p. 2-25)	M12 / D9.8 / D17 / DB17
Customized profile finishing (L <sub>max i</sub> = 5400 mm)	DI / DIS / MT / MTS / MI / MIS / DG <sup>1)</sup>

<sup>1)</sup> DG<sub>max</sub> = 45°; L<sub>min1</sub> / L<sub>min2</sub> = 456 / 612 mm

45x90L 2N	L (mm)	No.
1 pc	50 ... 6070	3 842 993 644 / L
1 pc	6070	3 842 538 303
12 pcs	6070	3 842 538 299

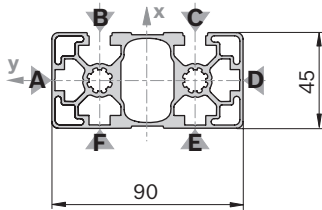
Quick & Easy (p. 2-8, see fold-out section)

45x90L 2N	No.
3 842 993 751 / ...	
Length L (mm)	50 ... 6070
Standard profile finishing L <sub>max</sub> = 6000 mm (note minimum length, p. 2-25)	M12 / D9.8 / D17 / DB17
Customized profile finishing (L <sub>max i</sub> = 5400 mm)	DI / DIS / MT / MTS / MI / MIS / DG <sup>1)</sup>

<sup>1)</sup> DG<sub>max</sub> = 45°; L<sub>min1</sub> / L<sub>min2</sub> = 456 / 612 mm

**45x90L 2NVS**

A = 12,0 cm<sup>2</sup>  
 I<sub>x</sub> = 90,6 cm<sup>4</sup>  
 I<sub>y</sub> = 25,9 cm<sup>4</sup>  
 W<sub>x</sub> = 40,3 cm<sup>3</sup>  
 W<sub>y</sub> = 5,7 cm<sup>3</sup>  
 m = 3,3 kg/m

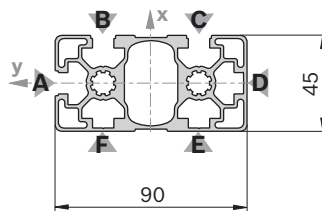


33096

Cover cap: see 45x90

**45x90L 3NVS**

A = 11,8 cm<sup>2</sup>  
 I<sub>x</sub> = 87,2 cm<sup>4</sup>  
 I<sub>y</sub> = 25,2 cm<sup>4</sup>  
 W<sub>x</sub> = 38,8 cm<sup>3</sup>  
 W<sub>y</sub> = 5,6 cm<sup>3</sup>  
 m = 3,2 kg/m



19437

Cover cap: see 45x90

45x90L 2NVS		L (mm)	No.
1 pc		50 ... 6070	<b>3 842 994 175 / L</b>
	12 pcs	6070	<b>3 842 555 652</b>

Quick & Easy (p. 2-8, see fold-out section)

45x90L 2NVS		3 842 993 770 / ...
Length L (mm)		50 ... 6070
Standard profile finishing (L <sub>max</sub> = 6000 mm (note minimum length, p. 2-25))		M12 / D9.8 / D17 / DB17
Customized profile finishing (L <sub>max i</sub> = 5400 mm)		DI / DIS / MT / MTS / MI / MIS / DG <sup>1)</sup>

<sup>1)</sup> DG<sub>max</sub> = 45°; L<sub>min1</sub> / L<sub>min2</sub> = 456 / 612 mm

45x90L 3NVS		L (mm)	No.
1 pc		50 ... 6070	<b>3 842 993 635 / L</b>
1 pc		6070	<b>3 842 538 302</b>
	12 pcs	6070	<b>3 842 538 298</b>

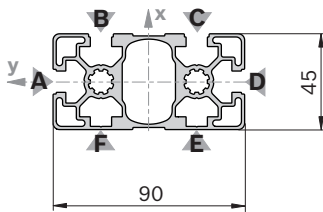
Quick & Easy (p. 2-8, see fold-out section)

45x90L 3NVS		3 842 993 752 / ...
Length L (mm)		50 ... 6070
Standard profile finishing (L <sub>max</sub> = 6000 mm (note minimum length, p. 2-25))		M12 / D9.8 / D17 / DB17
Customized profile finishing (L <sub>max i</sub> = 5400 mm)		DI / DIS / MT / MTS / MI / MIS / DG <sup>1)</sup>

<sup>1)</sup> DG<sub>max</sub> = 45°; L<sub>min1</sub> / L<sub>min2</sub> = 456 / 612 mm

**45x90L 4N**

A = 11,6 cm<sup>2</sup>  
 I<sub>x</sub> = 83,6 cm<sup>4</sup>  
 I<sub>y</sub> = 25,2 cm<sup>4</sup>  
 W<sub>x</sub> = 18,6 cm<sup>3</sup>  
 W<sub>y</sub> = 10,9 cm<sup>3</sup>  
 m = 3,2 kg/m



43375

Cover cap: see 45x90

45x90L 4N		L (mm)	No.
1 pc		50 ... 6070	<b>3 842 994 180 / L</b>
1 pc		6070	<b>3 842 567 973</b>
12 pcs		6070	<b>3 842 567 974</b>

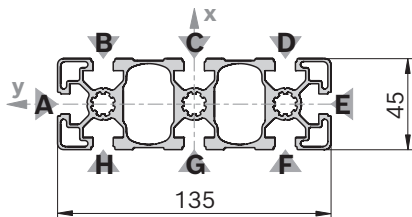
**Quick & Easy** (p. 2-8, see fold-out section)

45x90L 4N		3 842 993 777 / ...	
Length L (mm)		50 ... 6070	
Standard profile finishing L <sub>max</sub> = 6000 mm (note minimum length, p. 2-25)		M12 / D9.8 / D17 / DB17	
Customized profile finishing (L <sub>max i</sub> = 5400 mm)		DI / DIS / MT / MTS / MI / MIS / DG <sup>1)</sup>	

<sup>1)</sup> DG<sub>max</sub> = 45°; L<sub>min1</sub> / L<sub>min2</sub> = 456 / 612 mm

**45x135L**

A = 16,8 cm<sup>2</sup>  
 I<sub>x</sub> = 267,4 cm<sup>4</sup>  
 I<sub>y</sub> = 36,2 cm<sup>4</sup>  
 W<sub>x</sub> = 39,6 cm<sup>3</sup>  
 W<sub>y</sub> = 16,1 cm<sup>3</sup>  
 m = 4,6 kg/m



39851

Cover cap	Color	ESD		No.
45x45 (1x)	Signal gray	100		<b>3 842 548 752</b>
45x90 (1x)	Signal gray	20		<b>3 842 548 756</b>
45x45 (1x)	Black		20	<b>3 842 548 753</b>
45x90 (1x)	Black		20	<b>3 842 548 757</b>

Material: PP

**Notice:**

For the 45x135L and 45x135L 5N profiles, you require the following combination of cover caps: 1x 45x45 and 1x 45x90

45x135L		L (mm)	No.
1 pc		50 ... 6070	<b>3 842 993 528 / L</b>
1 pc		6070	<b>3 842 564 124</b>
8 pcs		6070	<b>3 842 564 122</b>

**Quick & Easy** (p. 2-8, see fold-out section)

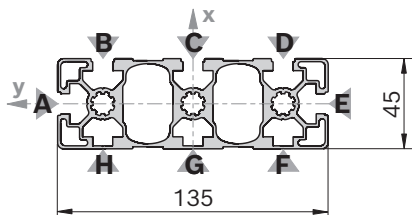
45x135L		3 842 993 773 / ...	
Length L (mm)		50 ... 6070	
Standard profile finishing L <sub>max</sub> = 6000 mm (note minimum length, p. 2-25)		M12 / D9.8 (B,C,D,F,G, H) <sup>1)</sup> / D17 (B,C,D,F,G,H) <sup>1)</sup> / DB17 / F1 (A, E) <sup>1)</sup>	
Customized profile finishing (L <sub>max i</sub> = 5400 mm)		DI / DIS / MT / MTS / MI / MIS / DG <sup>2)</sup>	

<sup>1)</sup> For the specified slots

<sup>2)</sup> DG<sub>max</sub> = 45°; L<sub>min1</sub> / L<sub>min2</sub> = 534 / 768 mm

**45x135L 5N**

A = 17,3 cm<sup>2</sup>  
 I<sub>x</sub> = 274,4 cm<sup>4</sup>  
 I<sub>y</sub> = 38,6 cm<sup>4</sup>  
 W<sub>x</sub> = 40,7 cm<sup>3</sup>  
 W<sub>y</sub> = 17,6 cm<sup>3</sup>  
 m = 4,7 kg/m



39852

Cover cap: See 45x135L

45x135L 5N		L (mm)	No.
1 pc		50 ... 6070	<b>3 842 993 530 / L</b>
1 pc		6070	<b>3 842 564 125</b>
4 pcs		6070	<b>3 842 564 123</b>

**Quick & Easy** (p. 2-8, see fold-out section)

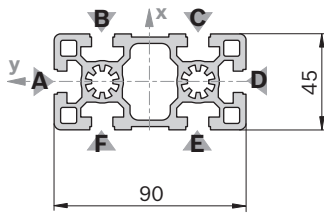
45x135L 5N		3 842 993 774 / ...	
Length L (mm)		50 ... 6070	
Standard profile finishing L <sub>max</sub> = 6000 mm (note minimum length, p. 2-25)		M12 / D9.8 (B,C,D,F,G,H) <sup>1)</sup> / D17 (B,C,D,F,G,H) <sup>1)</sup> / DB17 / F1 (A,E) <sup>1)</sup>	
Customized profile finishing (L <sub>max i</sub> = 5400 mm)		DI / DIS / MT / MTS / MI / MIS / DG <sup>2)</sup>	

<sup>1)</sup> For the specified slots

<sup>2)</sup> DG<sub>max</sub> = 45°; L<sub>min1</sub> / L<sub>min2</sub> = 534 / 768 mm

**45x90**

A = 15,4 cm<sup>2</sup>  
 I<sub>x</sub> = 124,6 cm<sup>4</sup>  
 I<sub>y</sub> = 32,8 cm<sup>4</sup>  
 W<sub>x</sub> = 27,7 cm<sup>3</sup>  
 W<sub>y</sub> = 14,6 cm<sup>3</sup>  
 m = 4,2 kg/m



19438

Cover cap	Color	ESD	No.
45x90 (1x)	Signal gray	20	3 842 548 756
45x90 (1x)	Black	20	3 842 548 757

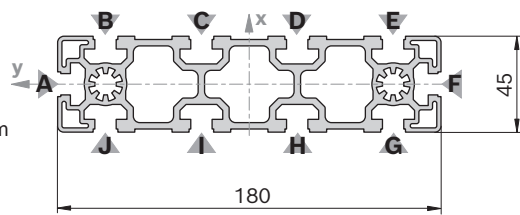
Material: PP

Cover cap with hole	Color	ESD	No.
45x90 (1x)	Signal gray	20	3 842 548 804
45x90 (1x)	Black	20	3 842 548 805

Material: PP

**45x180**

A = 25,5 cm<sup>2</sup>  
 I<sub>x</sub> = 766,7 cm<sup>4</sup>  
 I<sub>y</sub> = 57,3 cm<sup>4</sup>  
 W<sub>x</sub> = 85,2 cm<sup>3</sup>  
 W<sub>y</sub> = 25,5 cm<sup>3</sup>  
 m = 6,9 kg/m



19439

Cover cap	Color	ESD	No.
45x180 (1x)	Signal gray	20	3 842 548 794
45x180 (1x)	Black	20	3 842 548 795

Material: PP

45x90	L (mm)	No.
1 pc	50 ... 6070	3 842 990 300 / L
1 pc M12	60 ... 6000	3 842 990 301 / L
1 pc M12 M12	110 ... 6000	3 842 990 302 / L
1 pc M12 D17	90 ... 6000	3 842 990 323 / L
1 pc M12 D17V	90 ... 6000	3 842 990 305 / L
1 pc M16	120 ... 6000	3 842 990 303 / L
1 pc M16 M16	240 ... 6000	3 842 990 304 / L
1 pc M16 D17	170 ... 6000	3 842 990 325 / L
1 pc M16 D17V	170 ... 6000	3 842 990 307 / L
1 pc D17	60 ... 6000	3 842 990 329 / L
1 pc D17 D17	80 ... 6000	3 842 990 313 / L
1 pc D17 D17V	80 ... 6000	3 842 990 311 / L
1 pc D17V	60 ... 6000	3 842 990 331 / L
1 pc D17V D17V	80 ... 6000	3 842 990 309 / L
1 pc	6070	3 842 553 622
12 pcs	6070	3 842 553 615

Profile finishing: M12, M16: in all core holes  
 D17: in slots B/F, C/E  
 D17V: in slots A/D

**Quick & Easy** (p. 2-8, see fold-out section)

45x90	3 842 993 661 / ...
Length L (mm)	50 ... 6070
Standard profile finishing L <sub>max</sub> = 6000 mm (note minimum length, p. 2-25)	M12 / M16 / D9.8 / D17 / DB17 / F1 (A,D) <sup>1)</sup>
Customized profile finishing (L <sub>max i</sub> = 5400 mm)	DI / DIS / MT / MTS / MI / MIS / DG <sup>2)</sup>

<sup>1)</sup> For the specified slots  
<sup>2)</sup> DG<sub>max</sub> = 45°; L<sub>min1</sub> / L<sub>min2</sub> = 456 / 612 mm

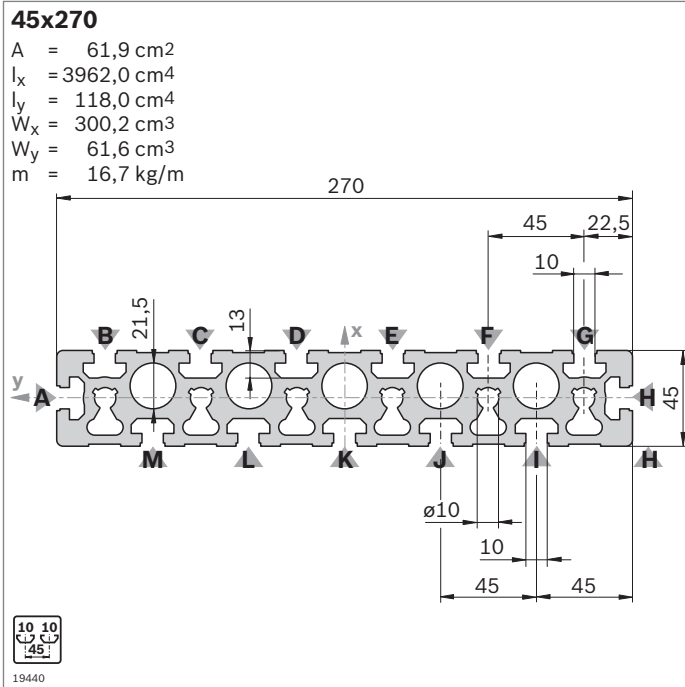
45x180	L (mm)	No.
1 pc	50 ... 6070	3 842 990 335 / L
1 pc M12	60 ... 6000	3 842 990 336 / L
1 pc M12 M12	110 ... 6000	3 842 990 339 / L
1 pc D17	80 ... 6000	3 842 990 342 / L
1 pc D17V	80 ... 6000	3 842 990 344 / L
1 pc	6070	3 842 553 623
6 pcs	6070	3 842 553 616

Profile finishing: M12: in all core holes  
 D17: in slots B/J, E/G  
 D17V: in slots A/F

**Quick & Easy** (p. 2-8, see fold-out section)

45x180	3 842 993 731 / ...
Length L (mm)	80 ... 6070
Standard profile finishing L <sub>max</sub> = 6000 mm (note minimum length, p. 2-25)	M12 / M16 / D9.8 (B,C,D,E,G,H,I,J) <sup>1)</sup> / D17 (B,C,D,E,G,H,I,J) <sup>1)</sup> / DB17 / F1 (A,F) <sup>1)</sup>
Customized profile finishing (L <sub>max i</sub> = 5400 mm)	DI / DIS / MT / MTS / MI / MIS / DG <sup>2)</sup>

<sup>1)</sup> For the specified slots  
<sup>2)</sup> DG<sub>max</sub> = 30°; L<sub>min1</sub> / L<sub>min2</sub> = 404 / 508 mm



45x270		L (mm)	No.
1 pc		50 ... 6000	<b>3 842 992 927 / L</b>
1 pc	M12	110 ... 6000	<b>3 842 992 928 / L</b>
2 pcs		6070	<b>3 842 557 949</b>

Profile finishing: M12: in core holes with C, F slots

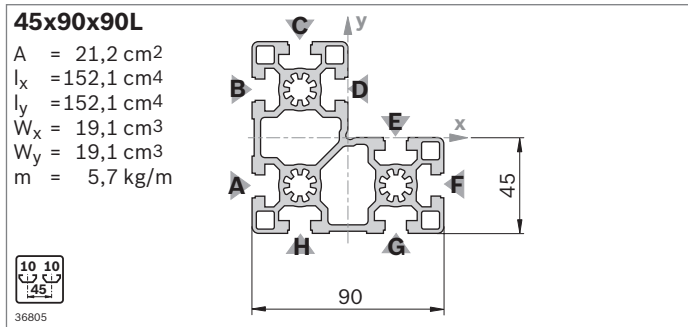
**Quick & Easy** (p. 2-8, see fold-out section)

45x270		3 842 993 732 / ...
Length L (mm)		80 ... 6000
Standard profile finishing L <sub>max</sub> = 6000 mm	(note minimum length, p. 2-25)	M12 / D9.8 (B,C,D,E,F,G, I,J,K,L,M) <sup>1)</sup> / D17 (B,C,D,E,F,G,I,J,K,L,M) <sup>1)</sup> / DB17 / F1 (A,H) <sup>1)</sup>
Customized profile finishing (L <sub>max i</sub> = 5400 mm)		DI / DIS / MT / MTS / MI / MIS

<sup>1)</sup> For the specified slots

Cover cap	Color	ESD	No.
45x90 (3x)	Signal gray	20	<b>3 842 548 756</b>
45x90 (3x)	Black	20	<b>3 842 548 757</b>

Material: PP



45x90x90L		L (mm)	No.
1 pc		50 ... 6070	<b>3 842 992 387 / L</b>
1 pc	M12	60 ... 6000	<b>3 842 992 388 / L</b>
1 pc		6070	<b>3 842 537 846</b>
8 pcs		6070	<b>3 842 537 823</b>

Profile finishing: M12: in central hole at intersection of slots A and H

**Quick & Easy** (p. 2-8, see fold-out section)

45x90x90L		3 842 993 682 / ...
Length L (mm)		50 ... 6070
Standard profile finishing L <sub>max</sub> = 6000 mm	(note minimum length, p. 2-25)	M12 / D9.8 / D17 / DB17 (A,B,C,F,G,H) <sup>1)</sup>
Customized profile finishing (L <sub>max i</sub> = 5400 mm)		DI / DIS / MT / MTS / MI / MIS / DG <sup>2)</sup>

<sup>1)</sup> For the specified slots

<sup>2)</sup> DG<sub>max</sub> = 45°; L<sub>min1</sub> / L<sub>min2</sub> = 456 / 612 mm

Cover cap	Color	ESD	No.
45x90x90 (1x)	Signal gray	20	<b>3 842 548 806</b>
45x90x90 (1x)	Black	20	<b>3 842 548 807</b>

Material: PP

Cover cap with hole <sup>1)</sup>	Color	ESD	No.
45x90x90 (1x)	Signal gray	20	<b>3 842 548 806</b>
45x90x90 (1x)	Black	20	<b>3 842 548 807</b>

Material: PP

<sup>1)</sup> The cover cap is also suitable for use with a hole; hole can be broken out

**45x90x90L 4N**

$A = 22,1 \text{ cm}^2$   
 $I_x = 160,8 \text{ cm}^4$   
 $I_y = 160,8 \text{ cm}^4$   
 $W_x = 30,6 \text{ cm}^3$   
 $W_y = 30,6 \text{ cm}^3$   
 $m = 6,0 \text{ kg/m}$

10 10  
145

29432

Cover cap: see 45x90x90L

**90x90SL**

$A = 14,1 \text{ cm}^2$   
 $I_x = 130,2 \text{ cm}^4$   
 $I_y = 130,2 \text{ cm}^4$   
 $W_x = 28,9 \text{ cm}^3$   
 $W_y = 28,9 \text{ cm}^3$   
 $m = 3,8 \text{ kg/m}$

10 10  
145

19442

Cover cap: see 90x90L

**90x90L**

$A = 24,1 \text{ cm}^2$   
 $I_x = 211,1 \text{ cm}^4$   
 $I_y = 211,1 \text{ cm}^4$   
 $W_x = 46,9 \text{ cm}^3$   
 $W_y = 46,9 \text{ cm}^3$   
 $m = 6,5 \text{ kg/m}$

10 10  
145

19443

Cover cap	Color	ESD	No.
90x90L (1x)	Signal gray	20	<b>3 842 548 758</b>
90x90L (1x)	Black	20	<b>3 842 548 759</b>

Material: PP

45x90x90L 4N		L (mm)	No.
1 pc		50 ... 6070	<b>3 842 994 176 / L</b>
8 pcs		6070	<b>3 842 547 827</b>

**Quick & Easy** (p. 2-8, see fold-out section)

45x90x90L 4N		3 842 993 764	
Length L (mm)	50 ... 6070		
Standard profile finishing $L_{max} = 6000 \text{ mm}$ (note minimum length, p. 2-25)	M12 / D9.8 / D17 / DB17 (A,B,C,F,G,H) <sup>1)</sup>		
Customized profile finishing ( $L_{max i} = 5400 \text{ mm}$ )	DI / DIS / MT / MTS / MI / MIS / DG <sup>2)</sup>		

<sup>1)</sup> For the specified slots

<sup>2)</sup>  $DG_{max} = 45^\circ$ ;  $L_{min1} / L_{min2} = 456 / 612 \text{ mm}$

90x90SL		L (mm)	No.
1 pc		50 ... 6070	<b>3 842 993 449 / L</b>
1 pc		6070	<b>3 842 537 101</b>
6 pcs		6070	<b>3 842 537 100</b>

**Quick & Easy** (p. 2-8, see fold-out section)

90x90SL		3 842 993 681 / ...	
Length L (mm)	50 ... 6070		
Standard profile finishing $L_{max} = 6000 \text{ mm}$ (note minimum length, p. 2-25)	M12 / D9.8 / D17 / DB17		
Customized profile finishing ( $L_{max i} = 5400 \text{ mm}$ )	DI / DIS / DG <sup>1)</sup>		

<sup>1)</sup>  $DG_{max} = 45^\circ$ ;  $L_{min1} / L_{min2} = 456 / 612 \text{ mm}$

90x90L		L (mm)	No.
1 pc		50 ... 6070	<b>3 842 992 415 / L</b>
1 pc	M12	60 ... 6000	<b>3 842 992 416 / L</b>
1 pc	M12  M12	110 ... 6000	<b>3 842 992 422 / L</b>
1 pc	M12  :D17	90 ... 6000	<b>3 842 992 423 / L</b>
1 pc	D17	60 ... 6000	<b>3 842 992 417 / L</b>
1 pc	D17  :D17	80 ... 6000	<b>3 842 992 420 / L</b>
1 pc	D17  :D17V	80 ... 6000	<b>3 842 992 421 / L</b>
1 pc	LF  :LF	80 ... 6000	<b>3 842 992 418 / L</b>
1 pc	LF  M12	90 ... 6000	<b>3 842 992 419 / L</b>
1 pc		6070	<b>3 842 553 620</b>
6 pcs		6070	<b>3 842 553 613</b>

Profile finishing: M12: in all core holes  
 D17: in slots C/H, D/G  
 D17V: in slots A/F, B/E  
 LF: in slots C/H, D/G

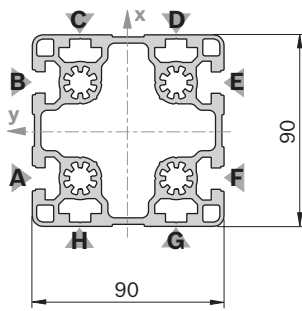
**Quick & Easy** (p. 2-8, see fold-out section)

90x90L		3 842 993 680 / ...	
Length L (mm)	50 ... 6070		
Standard profile finishing $L_{max} = 6000 \text{ mm}$ (note minimum length, p. 2-25)	M12 / D9.8 / D17 / DB17		
Customized profile finishing ( $L_{max i} = 5400 \text{ mm}$ )	DI / DIS / MT / MTS / MI / MIS / DG <sup>1)</sup>		

<sup>1)</sup>  $DG_{max} = 45^\circ$ ;  $L_{min1} / L_{min2} = 456 / 612 \text{ mm}$

**90x90L 4N**

A = 24,2 cm<sup>2</sup>  
 I<sub>x</sub> = 227,4 cm<sup>4</sup>  
 I<sub>y</sub> = 214,7 cm<sup>4</sup>  
 W<sub>x</sub> = 50,5 cm<sup>3</sup>  
 W<sub>y</sub> = 47,7 cm<sup>3</sup>  
 m = 6,5 kg/m



Cover cap: see 90x90L

90x90L 4N		L (mm)	No.
1 pc		50 ... 6070	<b>3 842 993 628 / L</b>
1 pc		6070	<b>3 842 538 301</b>
6 pcs		6070	<b>3 842 538 297</b>

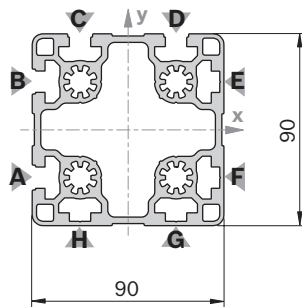
Quick & Easy (p. 2-8, see fold-out section)

90x90L 4N		3 842 993 756 / ...
Length L (mm)	50 ... 6070	
Standard profile finishing L <sub>max</sub> = 6000 mm (note minimum length, p. 2-25)	M12 / D9.8 / D17 / DB17	
Customized profile finishing (L <sub>max i</sub> = 5400 mm)	DI / DIS / MT / MTS / MI / MIS / DG <sup>1)</sup>	

<sup>1)</sup> DG<sub>max</sub> = 45°; L<sub>min1</sub> / L<sub>min2</sub> = 456 / 612 mm

**90x90L 4NVS**

A = 24,2 cm<sup>2</sup>  
 I<sub>x</sub> = 220,9 cm<sup>4</sup>  
 I<sub>y</sub> = 220,9 cm<sup>4</sup>  
 W<sub>x</sub> = 49,2 cm<sup>3</sup>  
 W<sub>y</sub> = 49,2 cm<sup>3</sup>  
 m = 6,5 kg/m



Cover cap: see 90x90L

90x90L 4NVS		L (mm)	No.
1 pc		50 ... 6070	<b>3 842 993 621 / L</b>
1 pc		6070	<b>3 842 538 300</b>
6 pcs		6070	<b>3 842 538 296</b>

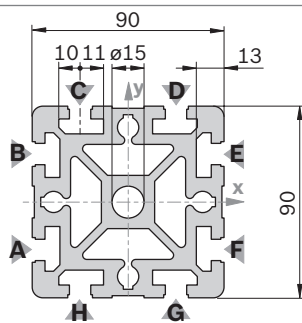
Quick & Easy (p. 2-8, see fold-out section)

90x90L 4NVS		3 842 993 756 / ...
Length L (mm)	50 ... 6070	
Standard profile finishing L <sub>max</sub> = 6000 mm (note minimum length, p. 2-25)	M12 / D9.8 / D17 / DB17	
Customized profile finishing (L <sub>max i</sub> = 5400 mm)	DI / DIS / MT / MTS / MI / MIS / DG <sup>1)</sup>	

<sup>1)</sup> DG<sub>max</sub> = 45°; L<sub>min1</sub> / L<sub>min2</sub> = 456 / 612 mm

**90x90**

A = 38,4 cm<sup>2</sup>  
 I<sub>x</sub> = 299,8 cm<sup>4</sup>  
 I<sub>y</sub> = 299,8 cm<sup>4</sup>  
 W<sub>x</sub> = 66,7 cm<sup>3</sup>  
 W<sub>y</sub> = 66,7 cm<sup>3</sup>  
 m = 10,4 kg/m



Cover cap	Color	ESD	No.
90x90 (1x)	Signal gray	20	<b>3 842 548 760</b>
90x90 (1x)	Black	20	<b>3 842 548 761</b>
Material:	PP		

Cover cap with hole	Color	ESD	No.
90x90 (1x)	Signal gray	20	<b>3 842 548 814</b>
90x90 (1x)	Black	20	<b>3 842 548 815</b>
Material:	PP		

**Notice:**A quick connector cannot be used

90x90		L (mm)	No.
1 pc		50 ... 6070	<b>3 842 990 500 / L</b>
1 pc	M16	120 ... 6000	<b>3 842 990 501 / L</b>
1 pc	M16  M16	240 ... 6000	<b>3 842 990 502 / L</b>
1 pc	M16  D17	170 ... 6000	<b>3 842 992 961 / L</b>
1 pc	D17	60 ... 6000	<b>3 842 990 092 / L</b>
1 pc	D17  D17	80 ... 6000	<b>3 842 990 093 / L</b>
1 pc	D17  D17V	80 ... 6000	<b>3 842 990 094 / L</b>
1 pc	LF  LF	80 ... 6000	<b>3 842 993 082 / L</b>
1 pc	F2	60 ... 6000	<b>3 842 990 505 / L</b>
1 pc	F2  F2	110 ... 6000	<b>3 842 990 507 / L</b>
1 pc		6070	<b>3 842 557 211</b>
6 pcs		6070	<b>3 842 557 201</b>

Quick & Easy (p. 2-8, see fold-out section)

90x90		3 842 993 679 / ...
Length L (mm)	50 ... 6070	
Standard profile finishing L <sub>max</sub> = 6000 mm (note minimum length, p. 2-25)	M16 / D9.8 / D17 / DB17 / F1	
Customized profile finishing (L <sub>max i</sub> = 5400 mm)	DI / DIS / MT / MTS / MI / MIS / DG <sup>1)</sup>	

<sup>1)</sup> DG<sub>max</sub> = 45°; L<sub>min1</sub> / L<sub>min2</sub> = 456 / 612 mm

**90x135L**

$A = 32,94 \text{ cm}^2$   
 $I_x = 629,40 \text{ cm}^4$   
 $I_y = 305,23 \text{ cm}^4$   
 $W_x = 93,26 \text{ cm}^3$   
 $W_y = 67,84 \text{ cm}^3$   
 $m = 8,89 \text{ kg/m}$

10 10  
10x10x45

40846

Cover cap	Color	ESD	No.
90x90L (1x)	Signal gray	20	3 842 548 758
45x90 (1x)	Signal gray	20	3 842 548 756
90x90L (1x)	Black	20	3 842 548 759
45x90 (1x)	Black	20	3 842 548 757

Material: PP

**Notice:**

For the 90x135L profile you require the following combination of cover caps: 1x 90x90 and 1x 45x90

90x135L	L (mm)	No.
1 pc	50 ... 6070	3 842 996 242 / L
1 pc	6070	3 842 564 806
4 pcs	6070	3 842 564 805

**Quick & Easy** (p. 2-8, see fold-out section)

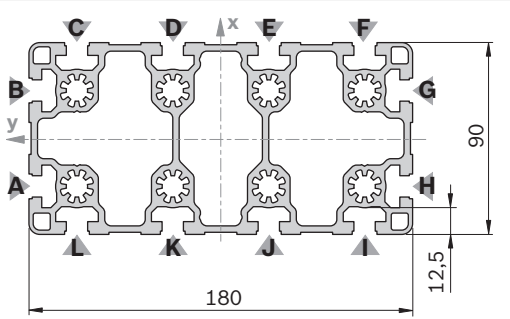
90x135L	3 842 993 776 / ...
Length L (mm)	50 ... 6070
Standard profile finishing $L_{max} = 6000 \text{ mm}$ (note minimum length, p. 2-25)	M12 / D9.8 (C,D,E, H,I,J) <sup>1)</sup> / D17 (C,D,E,H, I,J) <sup>1)</sup> / DB17 / F1 (A,F)
Customized profile finishing ( $L_{max i} = 5400 \text{ mm}$ )	DI / DIS / MT / MTS / MI / MIS / DG <sup>2)</sup>

<sup>1)</sup> For the specified slots

<sup>2)</sup>  $DG_{max} = 45^\circ$ ;  $L_{min1} / L_{min2} = 534 / 768 \text{ mm}$

**90x180L**

A = 42,8 cm<sup>2</sup>  
 I<sub>x</sub> = 1380,0 cm<sup>4</sup>  
 I<sub>y</sub> = 401,0 cm<sup>4</sup>  
 W<sub>x</sub> = 153,3 cm<sup>3</sup>  
 W<sub>y</sub> = 89,1 cm<sup>3</sup>  
 m = 11,6 kg/m



Cover cap	Color	ESD	No.
90x90L (2x)	Signal gray	20	3 842 548 758
90x90L (2x)	Black	20	3 842 548 759

Material: PP

90x180L	L (mm)	No.
1 pc	50 ... 6070	3 842 992 857 / L
1 pc M12	60 ... 6000	3 842 992 858 / L
1 pc M12 M12	110 ... 6000	3 842 992 859 / L
1 pc M12 LF	90 ... 6000	3 842 992 860 / L
1 pc D17V D17V	90 ... 6000	3 842 992 864 / L
1 pc LF LF	80 ... 6000	3 842 992 861 / L
3 pcs	6070	3 842 557 226

Profile finishing: M12: in all core holes  
 D17V: in slots A/H, B/G  
 LF: in slots A/H, B/G

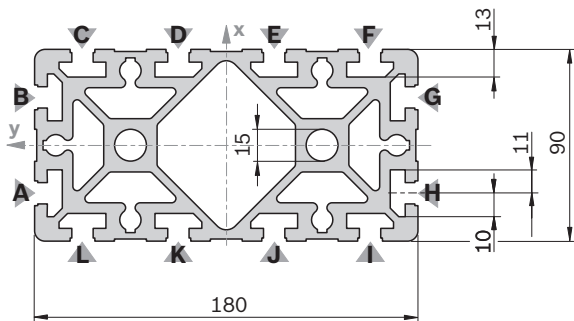
**Quick & Easy** (p. 2-8, see fold-out section)

90x180L	3 842 993 677 / ...
Length L (mm)	80 ... 6070
Standard profile finishing L <sub>max</sub> = 6000 mm (note minimum length, p. 2-25)	M12 / D9.8 (C,D,E,F,I, J,K,L) <sup>1)</sup> / D17 (C,D,E, F,I,J,K,L) <sup>1)</sup> / DB17 / F1 (A,G) <sup>1)</sup>
Customized profile finishing (L <sub>max i</sub> = 5400 mm)	DI / DIS / MT / MTS / MI / MIS / DG <sup>2)</sup>

<sup>1)</sup> For the specified slots  
<sup>2)</sup> DG<sub>max</sub> = 30°; L<sub>min1</sub> / L<sub>min2</sub> = 404 / 508 mm

**90x180**

A = 63,6 cm<sup>2</sup>  
 I<sub>x</sub> = 2138,3 cm<sup>4</sup>  
 I<sub>y</sub> = 544,3 cm<sup>4</sup>  
 W<sub>x</sub> = 237,6 cm<sup>3</sup>  
 W<sub>y</sub> = 121,0 cm<sup>3</sup>  
 m = 17,2 kg/m



Cover cap	Color	ESD	No.
90x90 (2x)	Signal gray	20	3 842 548 760
90x90 (2x)	Black	20	3 842 548 761

Material: PP

Cover cap with hole	Color	ESD	No.
90x90 (2x)	Signal gray	20	3 842 548 814
90x90 (2x)	Black	20	3 842 548 815

Material: PP

90x180	L (mm)	No.
1 pc	50 ... 6070	3 842 990 416 / L
1 pc M16	120 ... 6000	3 842 990 417 / L
1 pc M16 M16	240 ... 6000	3 842 990 418 / L
1 pc M16 F2	170 ... 6000	3 842 990 419 / L
1 pc D17V D17V	80 ... 6000	3 842 992 378 / L
1 pc LF LF	80 ... 6000	3 842 992 898 / L
1 pc LF-S LF-S	80 ... 6000	3 842 993 081 / L
1 pc F2 F2	110 ... 6000	3 842 990 421 / L
3 pcs	6070	3 842 553 617

Profile finishing: M16: in all core holes  
 D17V: in slots A/H, B/G  
 LF: in slots A/H, B/G  
 LF-S: in slots D/K, E/J

**Quick & Easy** (p. 2-8, see fold-out section)

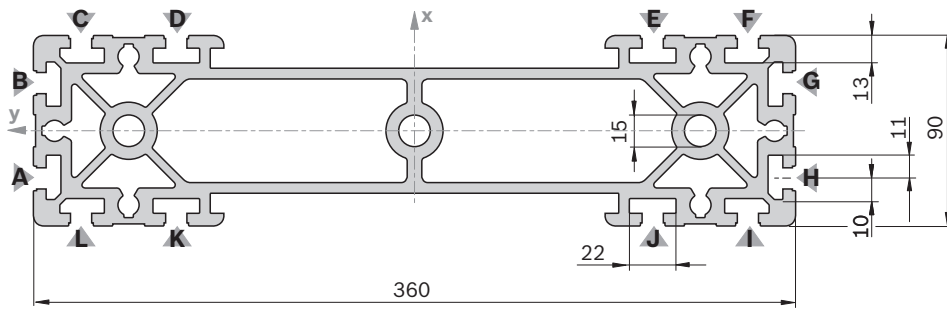
90x180	3 842 993 676 / ...
Length L (mm)	80 ... 6070
Standard profile finishing L <sub>max</sub> = 6000 mm (note minimum length, p. 2-25)	M16 / D9.8 (C,D,E,F,I,J, K,L) <sup>1)</sup> / D17 (C,D,E,F,I,J, K,L) <sup>1)</sup> / DB17 / F1 (A,G) <sup>1)</sup>
Customized profile finishing (L <sub>max i</sub> = 5400 mm)	DI / DIS / MT / MTS / MI / MIS / DG <sup>2)</sup>

<sup>1)</sup> For the specified slots  
<sup>2)</sup> DG<sub>max</sub> = 30°; L<sub>min1</sub> / L<sub>min2</sub> = 404 / 508 mm

**Notice:** A quick connector cannot be used with profile 90x180

**90x360**

A = 90,2 cm<sup>2</sup>  
 $I_x = 14065,0 \text{ cm}^4$   
 $I_y = 710,0 \text{ cm}^4$   
 $W_x = 781,4 \text{ cm}^3$   
 $W_y = 157,7 \text{ cm}^3$   
 m = 24,4 kg/m



19449

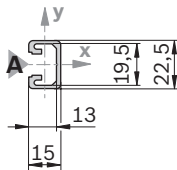
Cover cap	Color	ESD	No.
90x90 (2x)	Signal gray	20	3 842 548 760
90x90 (2x)	Black	20	3 842 548 761
Material:	PP		

Cover cap with hole	Color	ESD	No.
90x90 (2x)	Signal gray	20	3 842 548 814
90x90 (2x)	Black	20	3 842 548 815
Material:	PP		

**Notice:** A quick connector cannot be used

**15x22,5**

A = 1,3 cm<sup>2</sup>  
 $I_x = 0,8 \text{ cm}^4$   
 $I_y = 0,3 \text{ cm}^4$   
 $W_x = 0,9 \text{ cm}^3$   
 $W_y = 0,6 \text{ cm}^3$   
 m = 0,3 kg/m



19450

Cover cap	Color	ESD	No.
15x22.5 (1x)	Signal gray	20	3 842 548 816
15x22.5 (1x)	Black	20	3 842 548 817
Material:	PP		

90x360	L (mm)	No.
	50 ... 6000	3 842 993 434 / L
M16	240 ... 6000	3 842 993 435 / L
F2	110 ... 6000	3 842 993 436 / L

Profile finishing: M16: in all core holes

**Quick & Easy** (p. 2-8, see fold-out section)

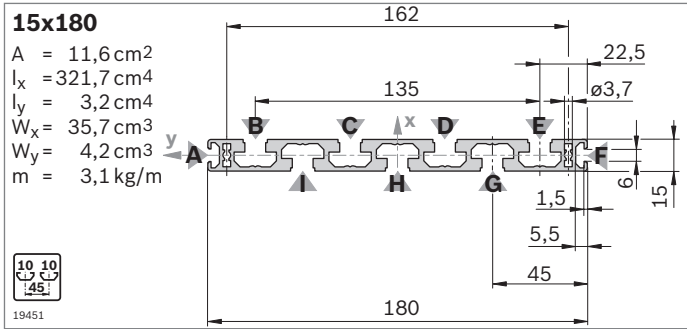
90x360	No.
3 842 993 678 / ...	
Length L (mm)	80 ... 6000
Standard profile finishing $L_{max} = 6000 \text{ mm}$ (note minimum length, p. 2-25)	M16 / D9.8 (C,D,E,F,I,J, K,L) <sup>1)</sup> / D17 (C,D,E,F,I,J, K,L) <sup>1)</sup> / DB17 / F1 (A,G) <sup>1)</sup>
Customized profile finishing ( $L_{max i} = 5400 \text{ mm}$ )	DI / DIS / MT / MTS / MI / MIS

<sup>1)</sup> For the specified slots

15x22.5	L (mm)	No.
1 pc	50 ... 3000	3 842 992 473 / L
1 pc D17	60 ... 3000	3 842 992 474 / L
1 pc D17	80 ... 3000	3 842 992 475 / L
1 pc	3000	3 842 563 232
10 pcs	3000	3 842 563 231

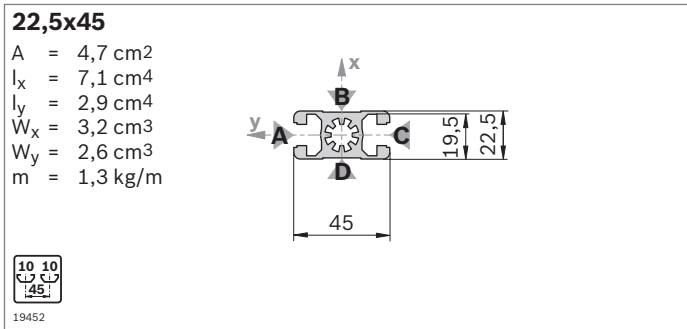
**Quick & Easy** (p. 2-8, see fold-out section)

15x22.5	No.
3 842 993 689 / ...	
Length L (mm)	50 ... 2000
Standard profile finishing (note minimum length, p. 2-25)	D9.8 / D17
Customized profile finishing	—



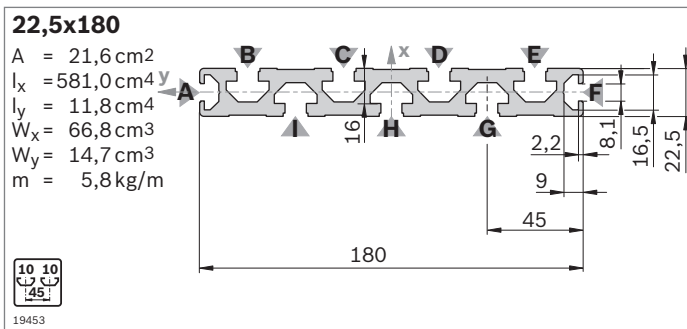
Cover cap	Color	ESD	No.
15x180 (1x)	Signal gray	20	3 842 548 772
15x180 (1x)	Black	20	3 842 548 773

Material: PP



Cover cap	Color	ESD	No.
22,5x45 (1x)	Signal gray	20	3 842 548 830
22,5x45 (1x)	Black	20	3 842 548 831

Material: PP



Cover cap	Color	ESD	No.
22,5x180 (1x)	Signal gray	20	3 842 548 770
22,5x180 (1x)	Black	20	3 842 548 771

Material: PP

15x180	L (mm)	No.
1 pc	50 ... 6070	3 842 993 079 / L
1 pc	6070	3 842 557 249
6 pcs	6070	3 842 557 242

Quick & Easy (p. 2-8, see fold-out section)

15x180	3 842 993 686 / ...
Length L (mm)	80 ... 6070
Standard profile finishing $L_{max} = 6000\text{ mm}$ (note minimum length, p. 2-25)	D9.8 (B,C,D,E,G,H,I) <sup>1)</sup> / D17 (B,C,D,E,G,H,I) <sup>1)</sup>
Customized profile finishing ( $L_{max i} = 5400\text{ mm}$ )	DI / DIS / MT / MTS / MI / MIS

<sup>1)</sup> For the specified slots

22,5x45	L (mm)	No.
1 pc	50 ... 6070	3 842 990 292 / L
1 pc M12	60 ... 6000	3 842 990 087 / L
1 pc M12	110 ... 6000	3 842 990 090 / L
1 pc D17V	80 ... 6000	3 842 990 091 / L
24 pcs	6070	3 842 537 812

Quick & Easy (p. 2-8, see fold-out section)

22,5x45	3 842 993 700 / ...
Length L (mm)	50 ... 6070
Standard profile finishing $L_{max} = 6000\text{ mm}$ (note minimum length, p. 2-25)	M12 / D9.8 (A,C) <sup>1)</sup> / D17 / DB17 (A,C) <sup>1)</sup>
Customized profile finishing ( $L_{max i} = 5400\text{ mm}$ )	DI / DIS / MT / MTS / MI / MIS / DG <sup>2)</sup>

<sup>1)</sup> For the specified slots

<sup>2)</sup>  $DG_{max} = 45^\circ$ ;  $L_{min1} / L_{min2} = 378 / 456\text{ mm}$

22,5x180	L (mm)	No.
1 pc	50 ... 6070	3 842 990 345 / L
1 pc	6070	3 842 558 306
6 pcs	6070	3 842 557 944
Profile finishing:	D28: in slots G, I	

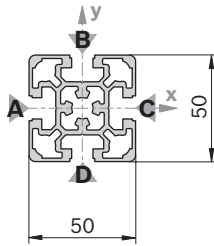
Quick & Easy (p. 2-8, see fold-out section)

22,5x180	3 842 993 699 / ...
Length L (mm)	80 ... 6070
Standard profile finishing $L_{max} = 6000\text{ mm}$ (note minimum length, p. 2-25)	D9.8 (B,C,D,E,G,H,I) <sup>1)</sup> / D17 (B,C,D,E,G,H,I) <sup>1)</sup>
Customized profile finishing ( $L_{max i} = 5400\text{ mm}$ )	DI / DIS / MT / MTS / MI / MIS

<sup>1)</sup> For the specified slots

**50x50L**

A = 9,3 cm<sup>2</sup>  
 $I_x = 21,2 \text{ cm}^4$   
 $I_y = 21,2 \text{ cm}^4$   
 $W_x = 8,5 \text{ cm}^3$   
 $W_y = 8,5 \text{ cm}^3$   
 m = 2,5 kg/m



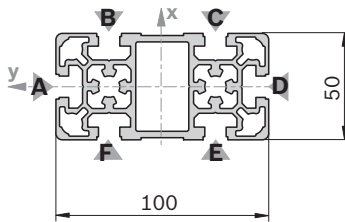
19454

Cover cap	Color	ESD	No.
50x50 (1x)	Signal gray	20	3 842 548 820
50x50 (1x)	Black	20	3 842 548 821
Material:	PP		

Cover cap with hole	Color	ESD	No.
50x50 (1x)	Signal gray	20	3 842 548 822
50x50 (1x)	Black	20	3 842 548 823
Material:	PP		

**50x100L**

A = 17,2 cm<sup>2</sup>  
 $I_x = 162,8 \text{ cm}^4$   
 $I_y = 42,6 \text{ cm}^4$   
 $W_x = 32,6 \text{ cm}^3$   
 $W_y = 17,0 \text{ cm}^3$   
 m = 4,6 kg/m



19455

Cover cap	Color	ESD	No.
50x50 (2x)	Signal gray	20	3 842 548 820
50x50 (2x)	Black	20	3 842 548 821
Material:	PP		

Cover cap with hole	Color	ESD	No.
50x50 (2x)	Signal gray	20	3 842 548 822
50x50 (2x)	Black	20	3 842 548 823
Material:	PP		

50x50L	L (mm)	No.
1 pc	50 ... 6070	3 842 993 156 / L
1 pc M12	60 ... 6000	3 842 993 157 / L
1 pc M12-M12	110 ... 6000	3 842 993 158 / L
1 pc M12-D17	90 ... 6000	3 842 993 159 / L
1 pc D9,8-D9,8	80 ... 6000	3 842 993 164 / L
1 pc D17	60 ... 6000	3 842 993 160 / L
1 pc D17-D17	80 ... 6000	3 842 993 161 / L
1 pc D17-D17V	80 ... 6000	3 842 993 162 / L
1 pc	6070	3 842 529 352
20 pcs	6070	3 842 529 351

Quick & Easy (p. 2-8, see fold-out section)

50x50L	3 842 993 665 / ...
Length L (mm)	50 ... 6070
Standard profile finishing ( $L_{max} = 6000 \text{ mm}$ ) (note minimum length, p. 2-25)	M12 / M16 / D9.8 / D17 / DB17
Customized profile finishing ( $L_{max i} = 5400 \text{ mm}$ )	DI / DIS / MT / MTS / MI / MIS / DG <sup>1)</sup>

<sup>1)</sup>  $DG_{max} = 45^\circ$ ;  $L_{min1} / L_{min2} = 387 / 474 \text{ mm}$

50x100L	L (mm)	No.
1 pc	50 ... 6070	3 842 993 163 / L
1 pc M12	60 ... 6000	3 842 993 165 / L
1 pc M12-M12	110 ... 6000	3 842 993 166 / L
1 pc D17-D17	80 ... 6000	3 842 993 167 / L
1 pc D17-D17V	80 ... 6000	3 842 993 168 / L
1 pc D17V	60 ... 6000	3 842 993 169 / L
1 pc D17V-D17V	90 ... 6000	3 842 993 170 / L
1 pc	6070	3 842 529 354
10 pcs	6070	3 842 537 825

Profile finishing: M12: in all core holes  
 D17: in slots B/F, C/E  
 D17V: in slot A/D

Quick & Easy (p. 2-8, see fold-out section)

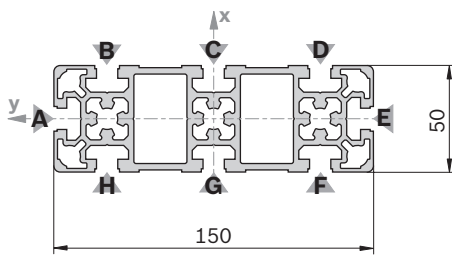
50x100L	3 842 993 663 / ...
Length L (mm)	50 ... 6070
Standard profile finishing ( $L_{max} = 6000 \text{ mm}$ ) (note minimum length, p. 2-25)	M12 / M16 / D9.8 / D17 / DB17 / F1 (A, D) <sup>1)</sup>
Customized profile finishing ( $L_{max i} = 5400 \text{ mm}$ )	DI / DIS / MT / MTS / MI / MIS / DG <sup>2)</sup>

<sup>1)</sup> For the specified slots

<sup>2)</sup>  $DG_{max} = 45^\circ$ ;  $L_{min1} / L_{min2} = 474 / 648 \text{ mm}$

**50x150L**

A = 25,8 cm<sup>2</sup>  
 I<sub>x</sub> = 540,0 cm<sup>4</sup>  
 I<sub>y</sub> = 64,2 cm<sup>4</sup>  
 W<sub>x</sub> = 72,0 cm<sup>3</sup>  
 W<sub>y</sub> = 25,7 cm<sup>3</sup>  
 m = 6,9 kg/m



19456

Cover cap	Color	ESD	No.
50x150 (1x)	Signal gray	20	3 842 548 818
50x150 (1x)	Black	20	3 842 548 819

Material: PP

50x150L	L (mm)	No.
1 pc	50 ... 6070	3 842 993 196 / L
1 pc M12	60 ... 6000	3 842 993 194 / L
1 pc M12 M12	110 ... 6000	3 842 993 199 / L
1 pc D17 D17	80 ... 6000	3 842 993 200 / L
1 pc	6070	3 842 529 378
4 pcs	6070	3 842 537 826

Profile finishing: M12: in all core holes  
 D17: in slots B/H, C/G, D/F  
 D17V: in slots A/E

**Quick & Easy** (p. 2-8, see fold-out section)

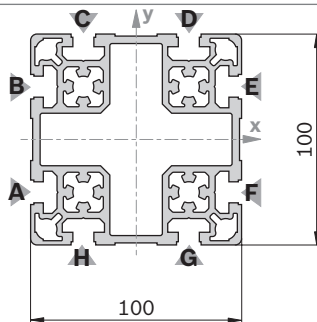
50x150L	3 842 993 664 / ...
Length L (mm)	80 ... 6070
Standard profile finishing L <sub>max</sub> = 6000 mm (note minimum length, p. 2-25)	M12 / M16 / D9.8 (B,C,D,F,G,H) <sup>1)</sup> / D17 (B,C,D,F,G,H) <sup>1)</sup> / DB17 / F1 (A,E) <sup>1)</sup>
Customized profile finishing (L <sub>max i</sub> = 5400 mm)	DI / DIS / MT / MTS / MI / MIS / DG <sup>2)</sup>

<sup>1)</sup> For the specified slots

<sup>2)</sup> DG<sub>max</sub> = 45°; L<sub>min1</sub> / L<sub>min2</sub> = 450 / 600 mm

**100x100L**

A = 29,9 cm<sup>2</sup>  
 I<sub>x</sub> = 318,3 cm<sup>4</sup>  
 I<sub>y</sub> = 318,3 cm<sup>4</sup>  
 W<sub>x</sub> = 63,7 cm<sup>3</sup>  
 W<sub>y</sub> = 63,7 cm<sup>3</sup>  
 m = 8,1 kg/m



19457

Cover cap	Color	ESD	No.
100x100 (1x)	Signal gray	20	3 842 548 824
100x100 (1x)	Black	20	3 842 548 825

Material: PP

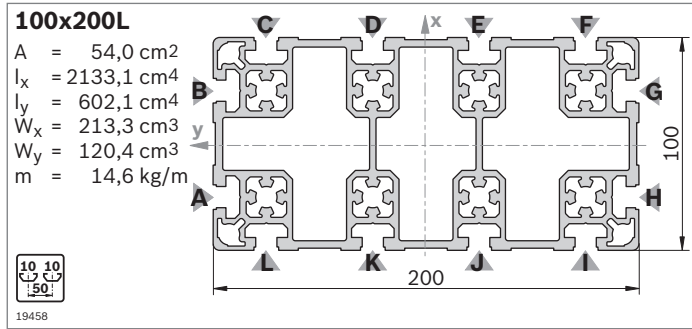
100x100L	L (mm)	No.
1 pc	50 ... 6070	3 842 993 171 / L
1 pc M12	60 ... 6000	3 842 993 172 / L
1 pc M12 M12	110 ... 6000	3 842 993 173 / L
1 pc M12 D17	90 ... 6000	3 842 993 174 / L
1 pc D17	60 ... 6000	3 842 993 175 / L
1 pc D17 D17	80 ... 6000	3 842 993 176 / L
1 pc D17 D17V	80 ... 6000	3 842 993 177 / L
1 pc	6070	3 842 529 356
6 pcs	6070	3 842 529 355

Profile finishing: M12: in all core holes  
 D17: in slots C/H, D/G  
 D17V: in slots A/F, B/E

**Quick & Easy** (p. 2-8, see fold-out section)

100x100L	3 842 993 685 / ...
Length L (mm)	50 ... 6070
Standard profile finishing L <sub>max</sub> = 6000 mm (note minimum length, p. 2-25)	M12 / M16 / D9.8 / D17 / DB17 / F1
Customized profile finishing (L <sub>max i</sub> = 5400 mm)	DI / DIS / MT / MTS / MI / MIS / DG <sup>1)</sup>

<sup>1)</sup> DG<sub>max</sub> = 45°; L<sub>min1</sub> / L<sub>min2</sub> = 474 / 648 mm



Cover cap	Color	ESD	No.
100x100 (2x)	Signal gray	20	3 842 548 824
100x100 (2x)	Black	20	3 842 548 825

Material: PP

100x200L	L (mm)	No.
1 pc	50 ... 6070	3 842 993 178 / L
1 pc M12	60 ... 6000	3 842 993 179 / L
1 pc M12 M12	110 ... 6000	3 842 993 180 / L
1 pc M12 D17	90 ... 6000	3 842 993 181 / L
1 pc D17	60 ... 6000	3 842 993 182 / L
1 pc D17 D17	80 ... 6000	3 842 993 183 / L
3 pcs	6070	3 842 529 357

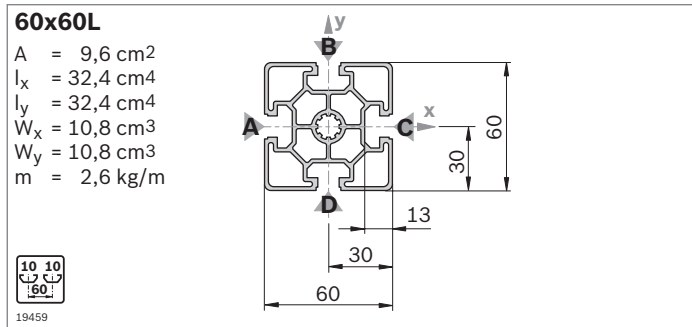
Profile finishing: M12: in all core holes  
 D17: in slots C/L, D/K, E/J, F/I  
 D17V: in slots A/H, B/G

Quick & Easy (p. 2-8, see fold-out section)

100x200L	3 842 993 687 / ...
Length L (mm)	50 ... 6070
Standard profile finishing $L_{max} = 6000 \text{ mm}$ (note minimum length, p. 2-25)	M12 / M16 / D9.8 (C,D,E,F,I,J,K,L) <sup>1)</sup> / D17 (C,D,E,F,I,J,K,L) <sup>1)</sup> / DB17 / F1 (A,G) <sup>1)</sup>
Customized profile finishing ( $L_{max i} = 5400 \text{ mm}$ )	DI / DIS / MT / MTS / MI / MIS / DG <sup>2)</sup>

<sup>1)</sup> For the specified slots

<sup>2)</sup>  $DG_{max} = 30^\circ$ ;  $L_{min} = 416 / 532 \text{ mm}$



Cover cap	Color	ESD	No.
60x60 (1x)	Signal gray	100	3 842 548 808
60x60 (1x)	Black	20	3 842 548 809

Material: PP

Cover cap with hole	Color	ESD	No.
60x60 (1x)	Signal gray	20	3 842 548 810
60x60 (1x)	Black	20	3 842 548 811

Material: PP

60x60L	L (mm)	No.
1 pc	50 ... 6070	3 842 992 443 / L
1 pc M12	60 ... 6000	3 842 992 444 / L
1 pc M12 M12	110 ... 6000	3 842 992 445 / L
1 pc M12 D17	90 ... 6000	3 842 992 446 / L
1 pc D17	60 ... 6000	3 842 992 449 / L
1 pc D17 D17	80 ... 6000	3 842 992 447 / L
1 pc D17 D17V	80 ... 6000	3 842 992 448 / L
1 pc	6070	3 842 557 214
20 pcs	6070	3 842 557 204

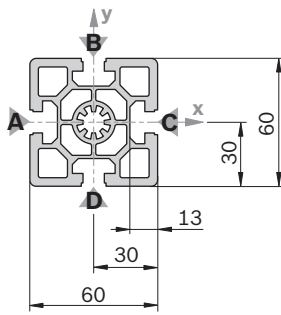
Quick & Easy (p. 2-8, see fold-out section)

60x60L	3 842 993 670 / ...
Length L (mm)	50 ... 6070
Standard profile finishing $L_{max} = 6000 \text{ mm}$ (note minimum length, p. 2-25)	M12 / D9.8 / D17 / DB17
Customized profile finishing ( $L_{max i} = 5400 \text{ mm}$ )	DI / DIS / MT / MTS / MI / MIS / DG <sup>1)</sup>

<sup>1)</sup>  $DG_{max} = 45^\circ$ ;  $L_{min} = 404 / 508 \text{ mm}$

**60x60**

A = 14,4 cm<sup>2</sup>  
 I<sub>x</sub> = 52,2 cm<sup>4</sup>  
 I<sub>y</sub> = 52,2 cm<sup>4</sup>  
 W<sub>x</sub> = 17,4 cm<sup>3</sup>  
 W<sub>y</sub> = 17,4 cm<sup>3</sup>  
 m = 3,9 kg/m



Cover cap	Color	ESD	No.
60x60 (1x)	Signal gray	100	3 842 548 808
60x60 (1x)	Black	20	3 842 548 809

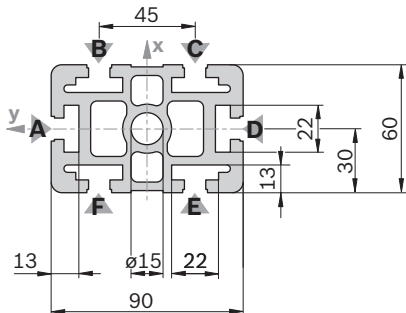
Material: PP

Cover cap with hole	Color	ESD	No.
60x60 (1x)	Signal gray	20	3 842 548 810
60x60 (1x)	Black	20	3 842 548 811

Material: PP

**60x90**

A = 25,8 cm<sup>2</sup>  
 I<sub>x</sub> = 214,2 cm<sup>4</sup>  
 I<sub>y</sub> = 90,5 cm<sup>4</sup>  
 W<sub>x</sub> = 47,6 cm<sup>3</sup>  
 W<sub>y</sub> = 30,2 cm<sup>3</sup>  
 m = 7,0 kg/m



Cover cap	Color	ESD	No.
60x90 (1x)	Signal gray	20	3 842 548 812
60x90 (1x)	Black	20	3 842 548 813

Material: PP

Cover cap with hole	Color	ESD	No.
60x90 (1x)	Signal gray	20	3 842 551 050
60x90 (1x)	Black	20	3 842 551 051

Material: PP

**Notice:**A quick connector cannot be used

60x60	L (mm)	No.
1 pc	50 ... 6070	3 842 990 350 / L
1 pc M12	60 ... 6000	3 842 990 351 / L
1 pc M12-M12	110 ... 6000	3 842 990 353 / L
1 pc M12-M16	180 ... 6000	3 842 990 354 / L
1 pc M12-D17	90 ... 6000	3 842 990 355 / L
1 pc M16	120 ... 6000	3 842 990 352 / L
1 pc M16-D17	170 ... 6000	3 842 990 373 / L
1 pc D17	50 ... 6000	3 842 990 370 / L
1 pc D17-D17	80 ... 6000	3 842 990 357 / L
1 pc D17-D17V	80 ... 6000	3 842 990 359 / L
20 pcs	6070	3 842 557 212
20 pcs	6070	3 842 557 202

**Quick & Easy** (p. 2-8, see fold-out section)

60x60	3 842 993 668 / ...
Length L (mm)	50 ... 6070
Standard profile finishing L <sub>max</sub> = 6000 mm (note minimum length, p. 2-25)	M12 / M16 / D9.8 / D17 / DB17
Customized profile finishing (L <sub>max i</sub> = 5400 mm)	DI / DIS / MT / MTS / MI / MIS / DG <sup>1)</sup>

<sup>1)</sup> DG<sub>max</sub> = 45°; L<sub>min</sub> = 404 / 508 mm

60x90	L (mm)	No.
1 pc	50 ... 6070	3 842 990 450 / ...
1 pc M16	120 ... 6000	3 842 990 453 / ...
1 pc M16-M16	240 ... 6000	3 842 990 454 / ...
1 pc M16-D17	170 ... 6000	3 842 992 962 / ...
1 pc M16-D17V	170 ... 6000	3 842 992 963 / ...
1 pc M16-F2	170 ... 6000	3 842 990 472 / ...
1 pc D17-D17	80 ... 6000	3 842 990 097 / ...
1 pc D17-D17V	80 ... 6000	3 842 990 099 / ...
1 pc D17V-D17V	90 ... 6000	3 842 990 098 / ...
1 pc F1-F1	110 ... 6000	3 842 990 464 / ...
1 pc F1-F1V	110 ... 6000	3 842 990 481 / ...
1 pc F2-F2	110 ... 6000	3 842 990 478 / ...
1 pc	6070	3 842 557 217
10 pcs	6070	3 842 557 207

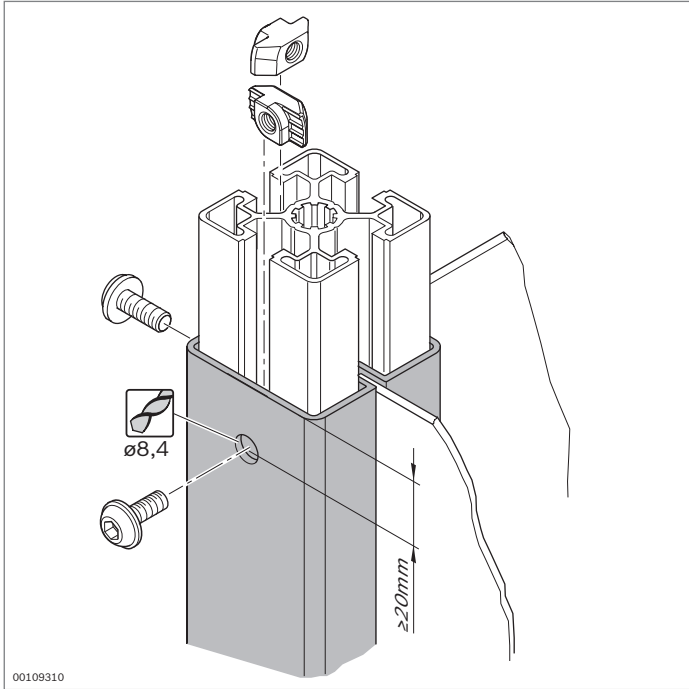
Profile finishing: D17: in slots B/F, C/E  
 D17V: in slots A/D

**Quick & Easy** (p. 2-8, see fold-out section)

60x90	3 842 993 671 / ...
Length L (mm)	50 ... 6070
Standard profile finishing L <sub>max</sub> = 6000 mm (note minimum length, p. 2-25)	M16 / D9.8 / D17 / DB17 / F1 (A, D) <sup>1)</sup>
Customized profile finishing (L <sub>max i</sub> = 5400 mm)	DI / DIS / MT / MTS / MI / MIS / DG <sup>1)</sup>

<sup>1)</sup> For the specified slots

<sup>1)</sup> DG<sub>max</sub> = 45°; L<sub>min</sub> = 456 / 612 mm



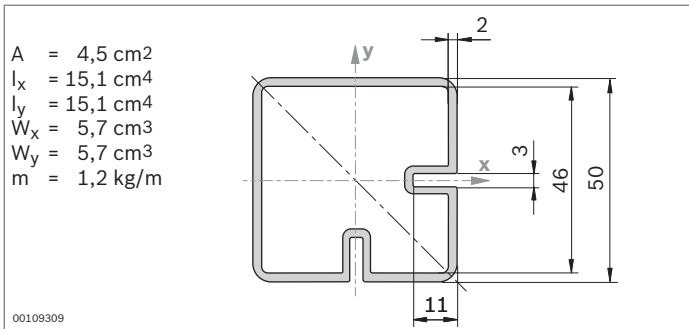
## Rectangular tube



- ▶ For constructing manually height-adjustable frames
- ▶ Cut-outs for mounting of panel elements
- ▶ Profile finishing: Hole for screw

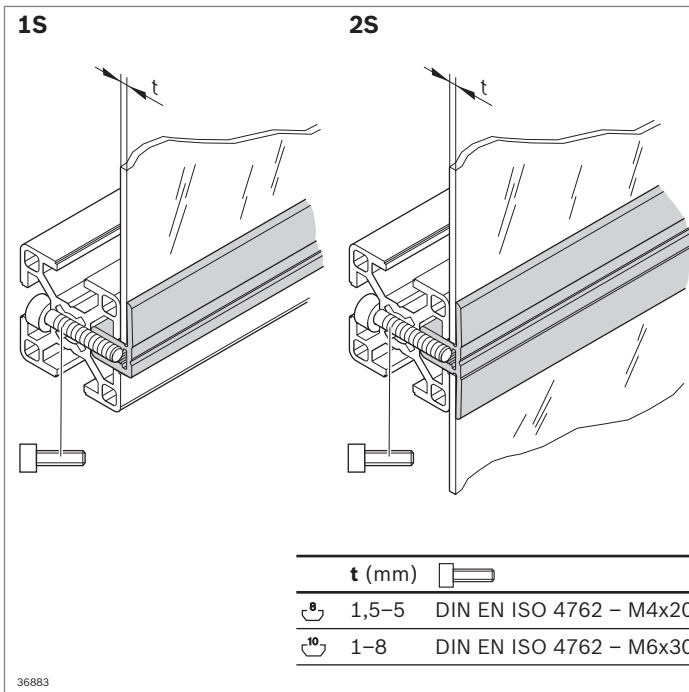
Required accessories:

Fastening material



Rectangular tube	L (mm)	No.
1 pc	50 ...	6070 3 842 992 913 / L
1 pc		6070 3 842 558 321
6 pcs		6070 3 842 557 960

Material: Aluminum; anodized



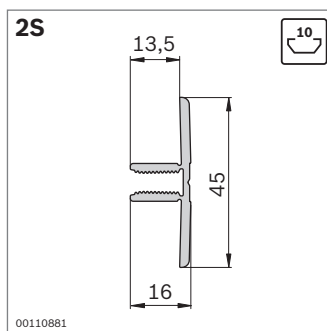
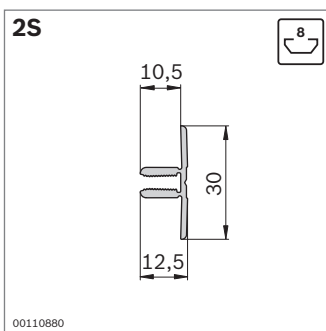
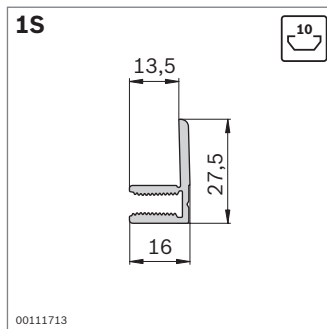
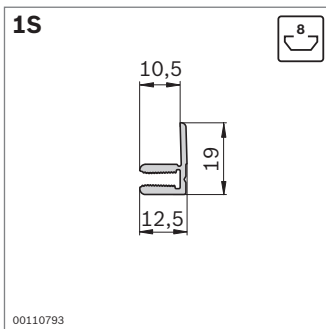
### Clamping profile



- ▶ For simple fastening of panes, panel elements, or grilles on strut profiles
- ▶ For subsequent installation in closed frame constructions
- ▶ For panel elements with varying thicknesses
- ▶ Profile finishing: Through-hole for fastening screw

#### Required accessories:

- ▶ Cylinder head bolt DIN EN ISO 4762 – M4x20 (8 mm slot)
- ▶ Cylinder head bolt DIN EN ISO 4762 – M6x30 (10 mm slot)

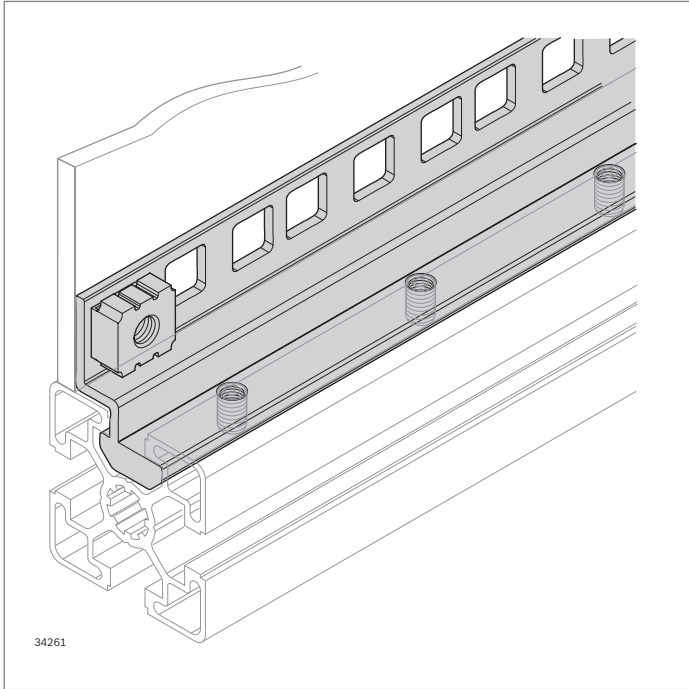


Clamping profile 1S		Slot	L (mm)	No.
1 pc		8	50 ... 3000	<b>3 842 993 017 / L</b>
10 pcs		8	3000	<b>3 842 524 058</b>
1 pc		10	50 ... 3000	<b>3 842 993 019 / L</b>
10 pcs		10	3000	<b>3 842 524 064</b>

Material: Aluminum; anodized

Clamping profile 2S		Slot	L (mm)	No.
1 pc		8	50 ... 3000	<b>3 842 993 018 / L</b>
10 pcs		8	3000	<b>3 842 524 061</b>
1 pc		10	50 ... 3000	<b>3 842 993 020 / L</b>
10 pcs		10	3000	<b>3 842 524 067</b>

Material: Aluminum; anodized

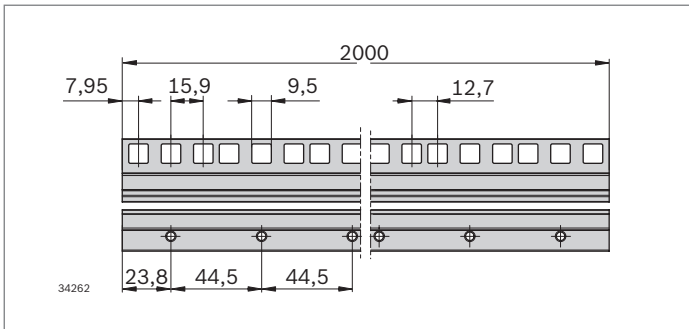


### Al angle profile 19"

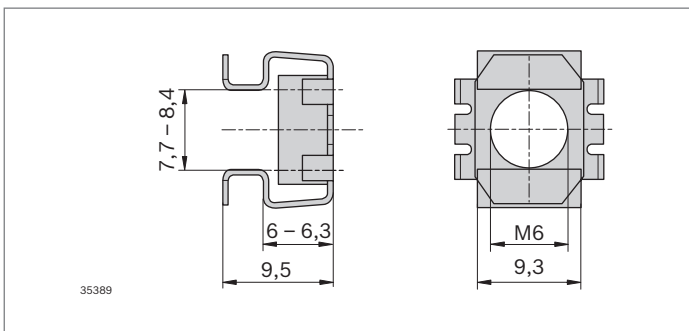


- ▶ Rail for mounting 19" devices in electronic and electrical production
- ▶ Suitable for fastening panel elements
- ▶ Fully finished angle profile
  - with square cutouts for fastening the 19" devices with a cage nut (hole according to DIN 60297-3-100)
  - with threads for fastening the Al angle profile with headless setscrews in the slot
- ▶ Angle profile, can be swiveled into slot

Required accessories: Headless setscrews M6x12



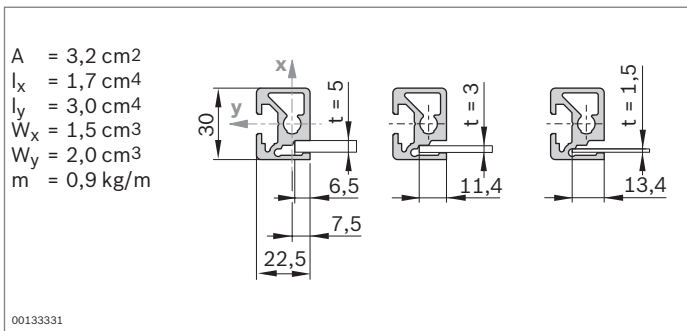
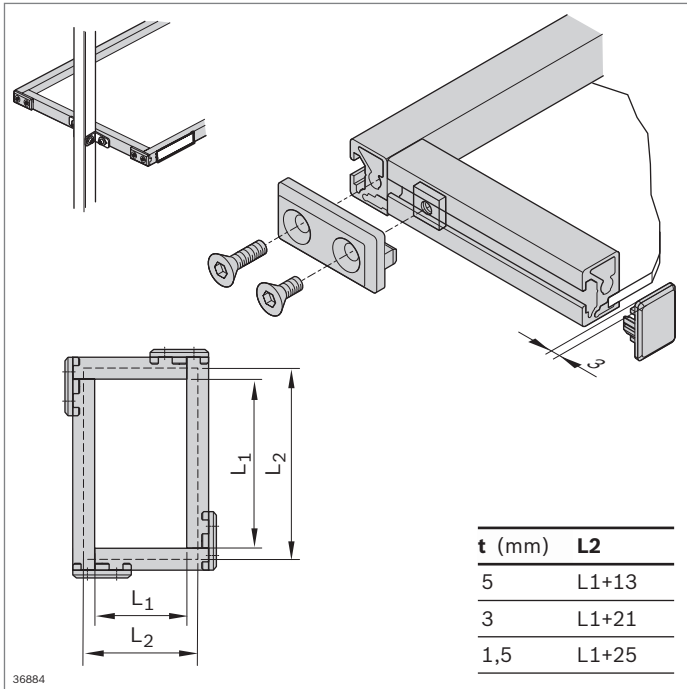
Al angle profile 19"		L (mm)	No.
	10 pcs	2000	<b>3 842 557 254</b>
Material:		Aluminum; anodized	



### Cage nut

- ▶ For fastening panel elements or 19" devices on profile
- ▶ Easy assembly as tension springs snap into the recess

Cage nut M6		No.
	20	<b>3 842 557 255</b>
Material:		Steel; zinc-plated



### Frame profile 22.5x30



- ▶ For inexpensive construction of trays and material shelves
- ▶ Panel elements are mounted under tension so that they do not rattle

Accessories, optional:

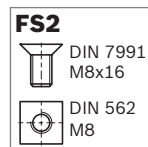
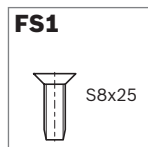
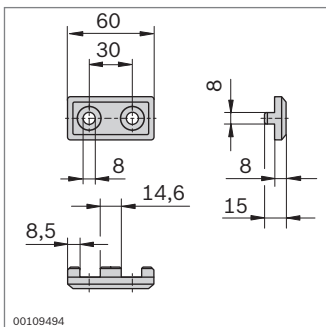
- ▶ Bracket set M6 (p. 2-117)
- ▶ Swivel mounting (p. 4-14)
- ▶ Labeling clip for 8 mm slot (p. 2-95)
- ▶ Plate (p. 2-66)

Frame profile 22.5x30	Slot	L (mm)	No.
1 pc	8	50 ... 6070	<b>3 842 992 493 / L</b>
1 pc	8	6070	<b>3 842 558 308</b>
20 pcs	8	6070	<b>3 842 557 946</b>

Material: Aluminum; anodized

Cover cap	Color	ESD	No.
<b>22.5x30</b>	Signal gray	20	<b>3 842 551 564</b>
<b>22.5x30</b>	Black	20	<b>3 842 551 565</b>

Material: PP



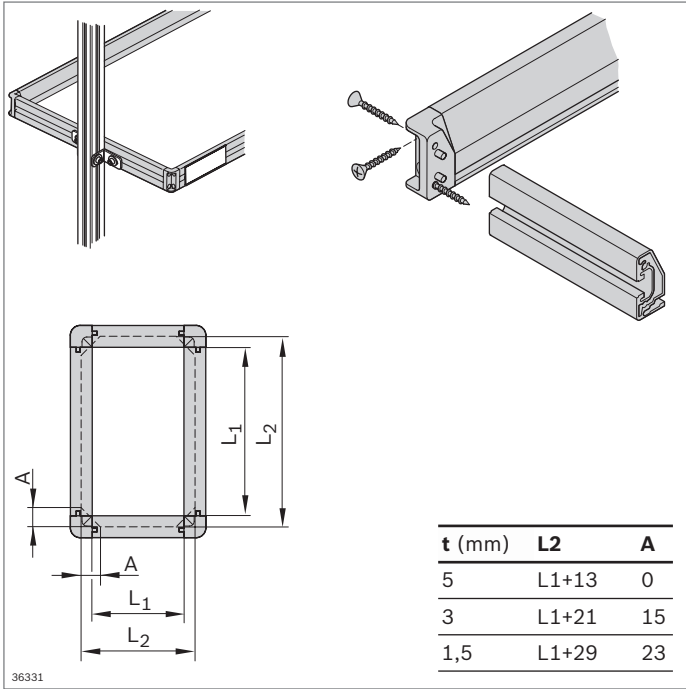
### Corner piece for frame profile 22.5x30

- ▶ For the right-angled connection of two 22.5x30 frame profiles
- ▶ Profile finishing not required

Corner piece	Color	ESD	No.	FS
<b>22.5x30</b>	Signal gray	20	<b>3 842 554 708</b>	FS1, FS2
<b>22.5x30</b>	Black	20	<b>3 842 554 709</b>	FS1, FS2

Material: PA

Scope of delivery: Incl. fastening material (FS)



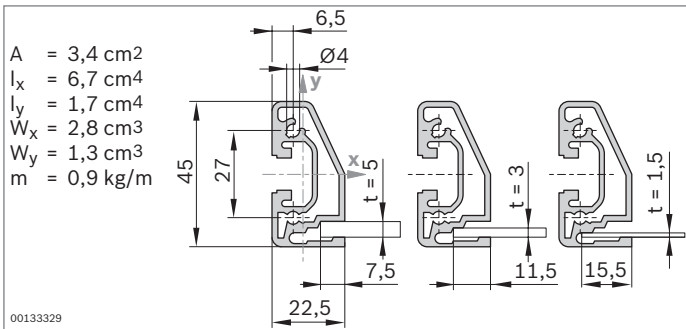
### Frame profile 22.5x45



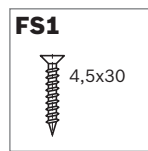
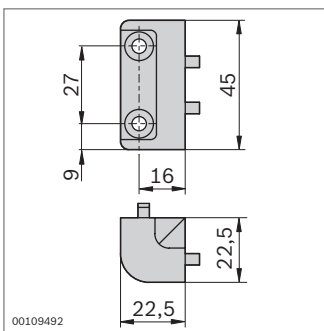
- ▶ For inexpensive construction of trays and material shelves
- ▶ Panel elements are mounted under tension so that they do not rattle

Accessories, optional:

- ▶ Bracket set (p. 3-33)
- ▶ Swivel mounting (p. 4-14)
- ▶ Labeling clip for 10 mm slot (p. 2-95)
- ▶ Plate (p. 2-66)



Material: Aluminum; anodized



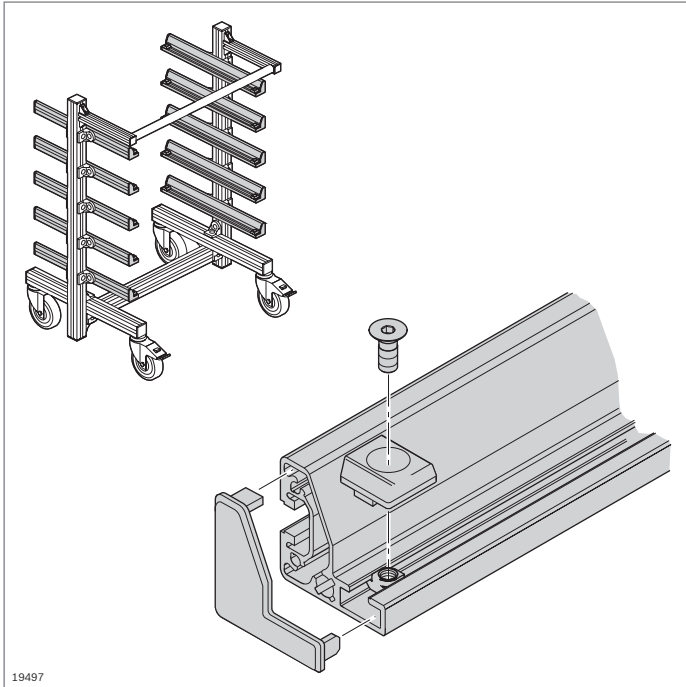
### Corner bracket for frame profile 22.5x45

- ▶ For the right-angled connection of two 22.5x45 frame profiles
- ▶ Profile finishing not required

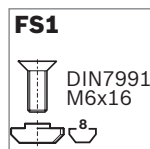
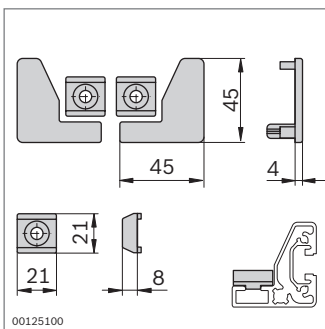
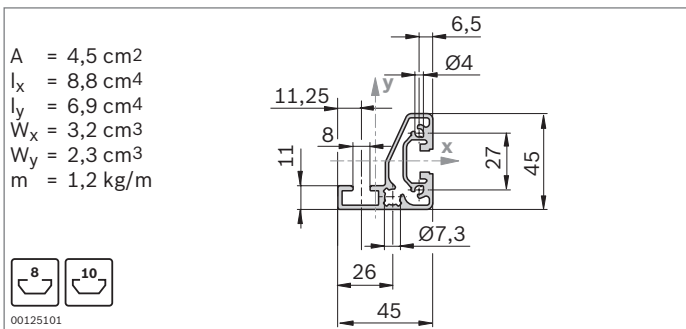
Corner bracket	ESD	No.	FS
<b>22.5x45</b>		20 <b>3 842 535 637</b>	4xFS1

Material: Diecast zinc

Scope of delivery: Incl. fastening material (FS)



19497



## Angle profile



- For supporting containers, plates, or workpiece pallets in flow racks, material shuttles, or hopper stackers

Accessories:

Bracket R40x43 (p. 2-114)

Angle profile	L (mm)	No.
1 pc	50 ... 6070	<b>3 842 992 412 / L</b>
1 pc	6070	<b>3 842 558 304</b>
20 pcs	6070	<b>3 842 557 942</b>

Material: Aluminum; anodized

## Stopper and cover cap

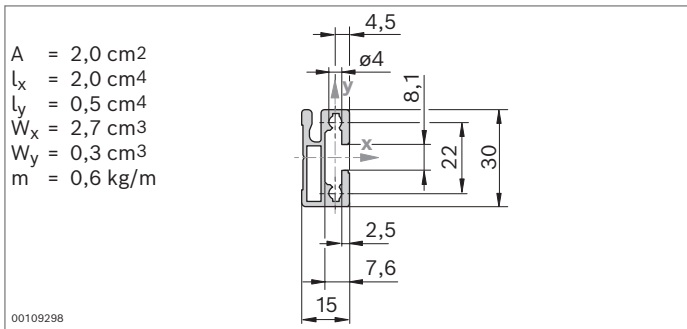
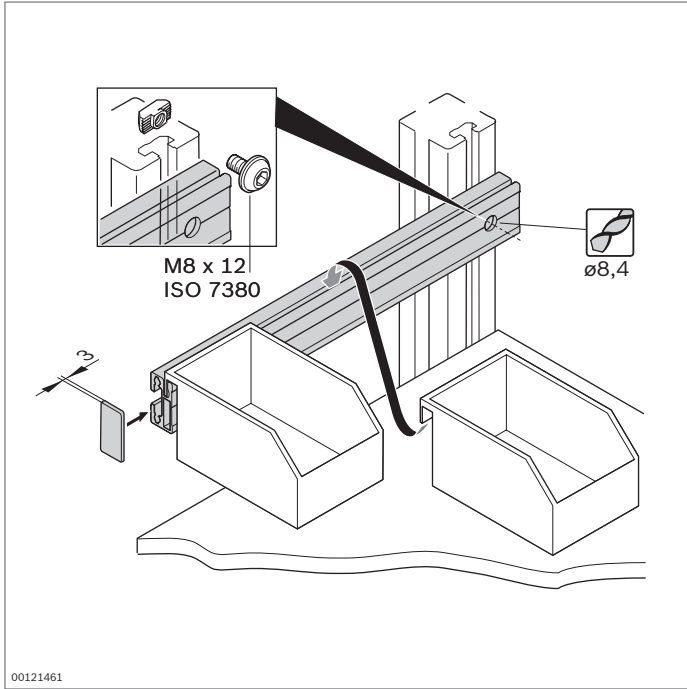
- The stopper prevents containers from shifting on the angle profile
- Cover cap to prevent injuries at open profile ends
- Attractive design

Stopper, cover cap	Color	ESD	No.	FS
Set	Signal gray	20	<b>3 842 554 490</b>	2xFS1
Set	Black	20	<b>3 842 554 491</b>	2xFS1

Material: PA

Fastening material: Steel; zinc-plated

Scope of delivery: Incl. fastening material (FS)



## Suspension profile



- ▶ For the fast, secure suspension of grab containers, grab ledges, grab trays, and tool holders
- ▶ Profile finishing:  
Through-hole for screwdriver
- ▶ Matching grab containers in the Manual Production Systems catalog (**3 842 538 280**)

Required accessories:

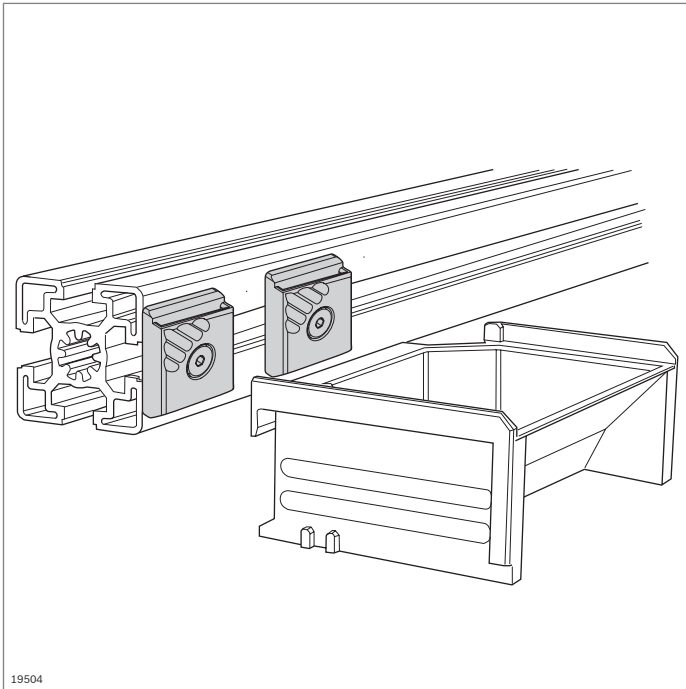
- ▶ Screw
- ▶ T-nut (p. 3-4)

Suspension profile	L (mm)	ESD No.
1 pc	50 ... 3000	<b>3 842 993 411 / L</b>
1 pc	3000	<b>3 842 537 680</b>
10 pcs	3000	<b>3 842 537 679</b>
1 pc	50 ... 3000	<b>3 842 993 063 / L</b>
1 pc	3000	<b>3 842 554 156</b>
10 pcs	3000	<b>3 842 554 157</b>

Material: Suspension profile: Aluminum; anodized  
Suspension profile ESD: Aluminum; natural

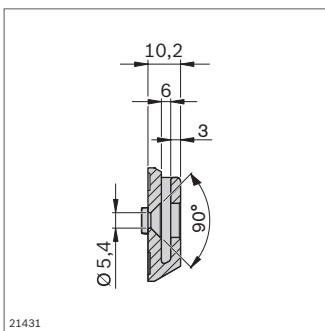
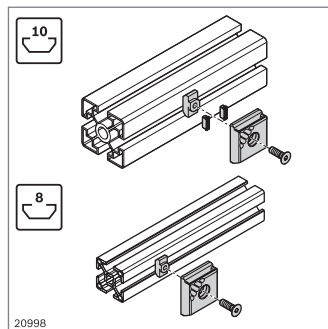
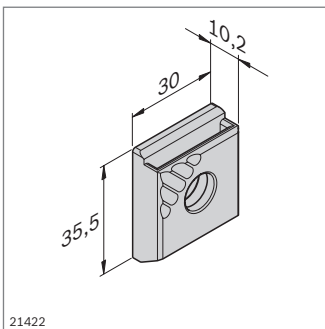
Cover cap	Color	ESD	No.
<b>15x30</b>	Signal gray	20	<b>3 842 551 582</b>
<b>15x30</b>	Black	20	<b>3 842 551 583</b>

Material: PP



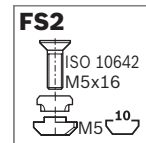
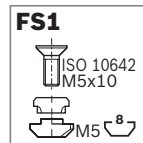
### Container mount

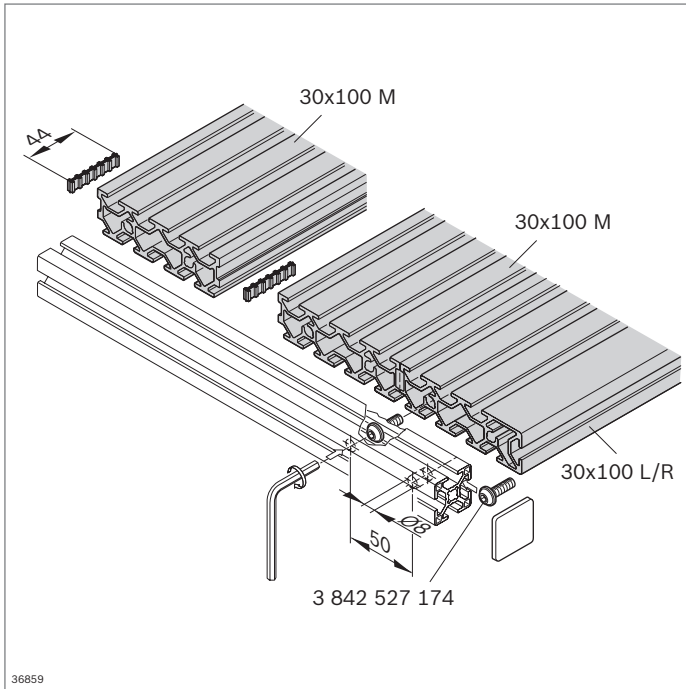
- ▶ Container mount for mounting tool holders, grab containers, grab trays and grab ledges
- ▶ Suitable for 8 mm and 10 mm slots



Container mount	ESD	No.	FS
	10	3 842 544 797	FS1, FS2

Material: PA 66; black  
 Fastening material: Steel; zinc-plated  
 Scope of delivery: Incl. fastening material (FS)



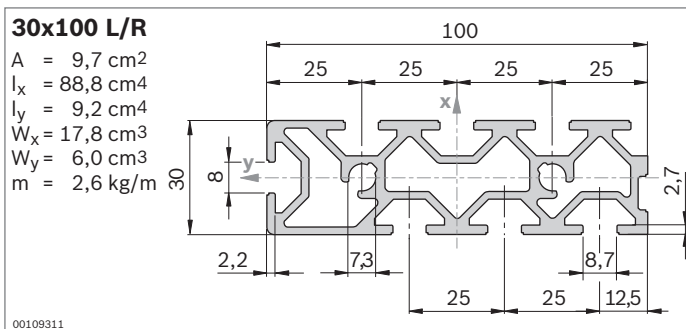


### Slotted plate 30x100

- ▶ Modular plate profiles with multiple slots for experimental constructions of any size
- ▶ Slot spacing 25 mm
- ▶ Slot size 8.9 mm
- ▶ 8 mm slot connectors may be used

Accessories, optional:

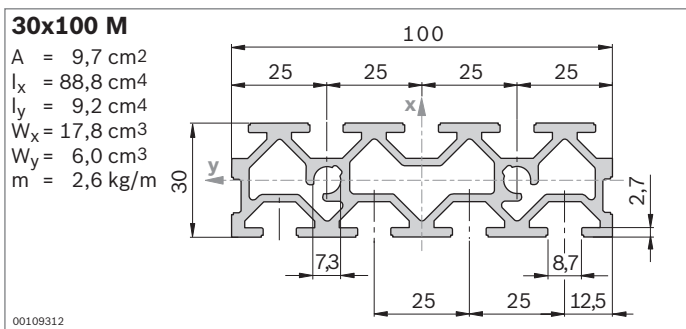
- ▶ Profile 30x30 (p. 2-17)
- ▶ Sliding block



- ▶ Slotted plate **30x100 L/R** with lateral 8 mm slot as outer stop

Slotted plate 30x100 L/R	Slot	L (mm)	No.
1 pc	8	100 ... 5600	<b>3 842 993 337 / L</b>
1 pc	8	5600	<b>3 842 542 695</b>
18 pcs	8	5600	<b>3 842 542 696</b>

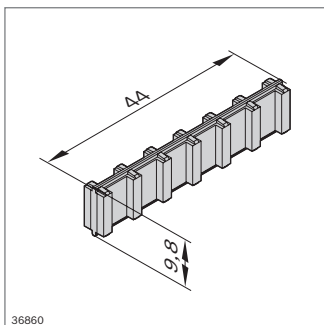
Material: Aluminum; anodized



- ▶ Slotted plate **30x100 M** for constructing slotted plates of any width

Slotted plate 30x100 M	Slot	L (mm)	No.
1 pc	8	100 ... 5600	<b>3 842 993 336 / L</b>
1 pc	8	5600	<b>3 842 542 697</b>
18 pcs	8	5600	<b>3 842 542 698</b>

Material: Aluminum; anodized

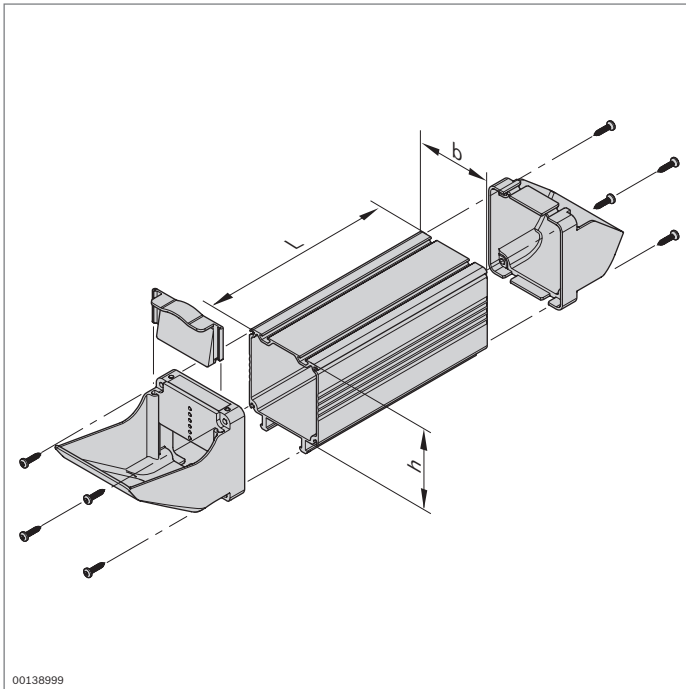


### Sliding block

- ▶ For connecting the slotted plates 30x100
- ▶ Recommendation: Use 3 sliding blocks per meter of profile length

Sliding block	No.
	100 <b>3 842 520 922</b>

Material: PA

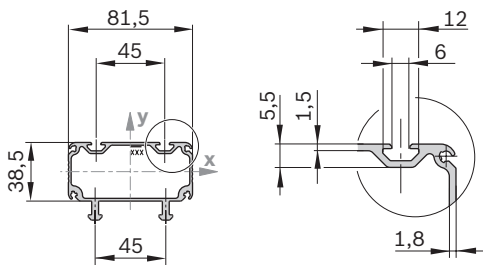


**Material chute**  
**Grab ledge and refill end-piece**  
**Hopper**  
**Grab container base**



- ▶ Small parts within easy reach on the workstation
- ▶ Components for the individual construction of stable Vario grab containers
- ▶ Customizable holding capacity

**90x45**  
 A = 7,0 cm<sup>2</sup>  
 I<sub>x</sub> = 20,7 cm<sup>4</sup>  
 I<sub>y</sub> = 54,3 cm<sup>4</sup>  
 m = 1,8 kg/m

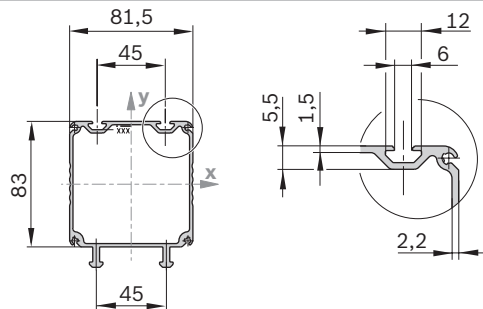


19908

Material chute 90x45		L (mm)	ESD No.
1 pc		50 ... 3000	<b>3 842 993 071 / L</b>
3 pcs		3000	<b>3 842 526 671</b>
1 pc		50 ... 1500	<b>3 842 993 446 / L</b>
6 pcs		1500	<b>3 842 558 332</b>

Material: Material chute: Aluminum; anodized  
 Material chute ESD: Aluminum; coated with Alutin

**90x90**  
 A = 9,6 cm<sup>2</sup>  
 I<sub>x</sub> = 118,8 cm<sup>4</sup>  
 I<sub>y</sub> = 88,1 cm<sup>4</sup>  
 m = 2,5 kg/m

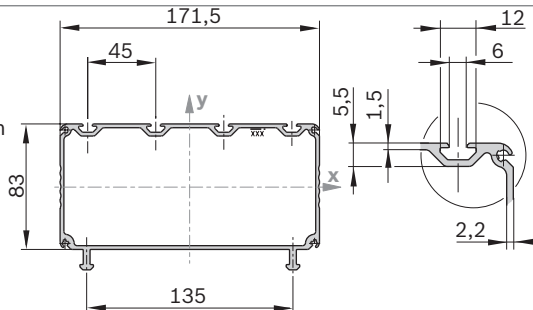


19599

Material chute 90x90		L (mm)	ESD No.
1 pc		50 ... 3000	<b>3 842 993 072 / L</b>
3 pcs		3000	<b>3 842 526 672</b>
1 pc		50 ... 1500	<b>3 842 993 517 / L</b>
6 pcs		1500	<b>3 842 558 333</b>

Material: Material chute: Aluminum; anodized  
 Material chute ESD: Aluminum; coated with Alutin

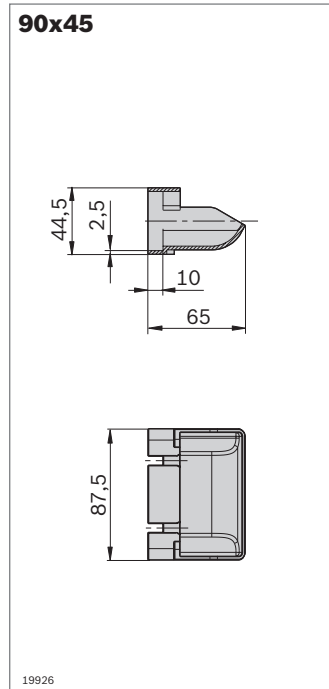
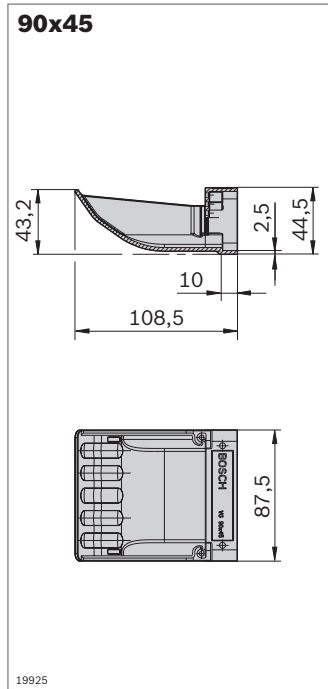
**180x90**  
 A = 15,5 cm<sup>2</sup>  
 I<sub>x</sub> = 208,2 cm<sup>4</sup>  
 I<sub>y</sub> = 597,5 cm<sup>4</sup>  
 m = 4,2 kg/m



19909

Material chute 180x90		L (mm)	ESD No.
1 pc		50 ... 3000	<b>3 842 993 073 / L</b>
3 pcs		3000	<b>3 842 526 673</b>
1 pc		50 ... 1500	<b>3 842 993 527 / L</b>
6 pcs		1500	<b>3 842 558 334</b>

Material: Material chute: Aluminum; anodized  
 Material chute ESD: Aluminum; coated with Alutin



- ▶ Refill end-piece with large opening for easy filling
- ▶ Ergonomically designed grab ledge for easy, safe grabbing
- ▶ Grab container pusher for closing

Grab ledge and refill end-piece	ESD No.	FS
<b>90 x 45</b>	<b>3 842 526 626</b>	8xFS1, FS2
	<b>3 842 558 328</b>	8xFS1, FS2

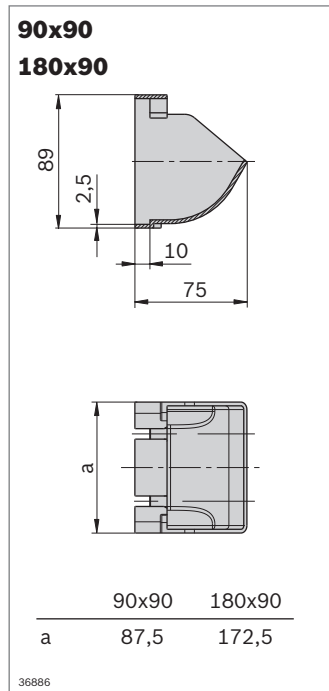
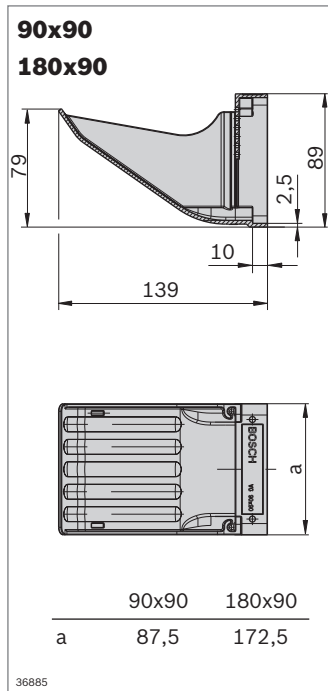
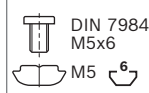
Material: Grab ledge and refill end-piece Plastic ABS; light gray RAL 7035  
 Grab ledge and refill end-piece ESD: ABS plastic; black, similar to RAL 9005  
 Fastening material: Steel; zinc-plated

Scope of delivery: Incl. fastening material (FS)

**FS1**



**FS2**



Grab ledge and refill end-piece	ESD No.	FS
<b>90 x 90</b>	<b>3 842 526 627</b>	8xFS1, FS2
	<b>3 842 558 329</b>	8xFS1, FS2
<b>180 x 90</b>	<b>3 842 526 628</b>	8xFS1, FS2
	<b>3 842 558 330</b>	8xFS1, FS2

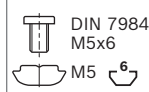
Material: Grab ledge and refill end-piece Plastic ABS; light gray RAL 7035  
 Grab ledge and refill end-piece ESD: ABS plastic; black, similar to RAL 9005  
 Fastening material: Steel; zinc-plated

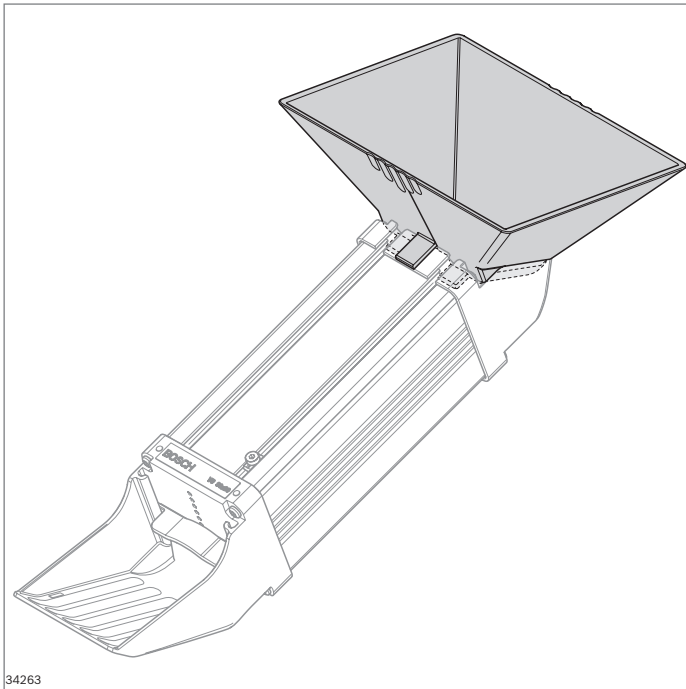
Scope of delivery: Incl. fastening material (FS)

**FS1**



**FS2**

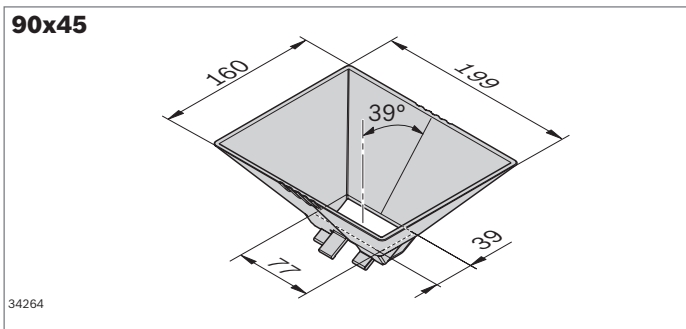




- ▶ Hopper for installing on Vario grab container
- ▶ Docking aids on the hopper facilitate ergonomic filling
- ▶ Easy assembly and dismantling

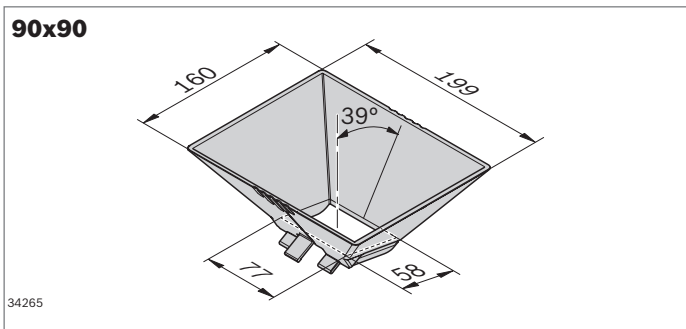
Material:  
ABS plastic; light gray (similar to RAL 7035)

**90x45**



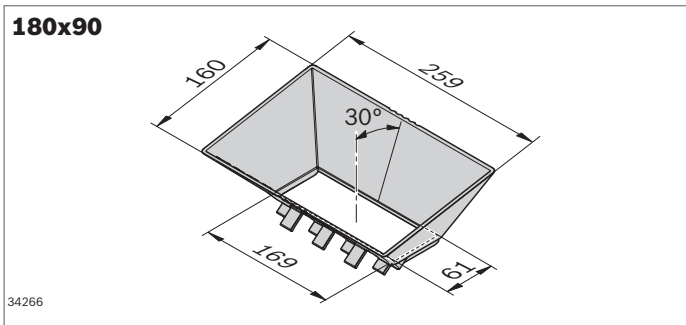
	Color	ESD	No.
Hopper 90x45	Gray (RAL 7035)		3 842 557 433
	Black	⚠	3 842 564 686

**90x90**

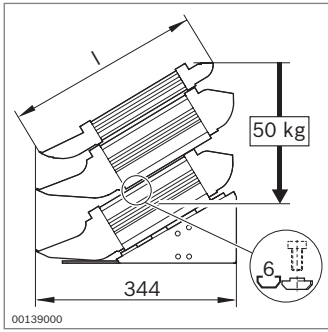


	Color	ESD	No.
Hopper 90x90	Gray (RAL 7035)		3 842 557 434
	Black	⚠	3 842 564 687



**180x90**



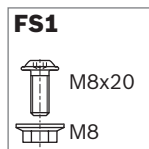
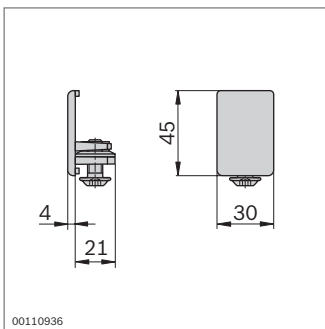
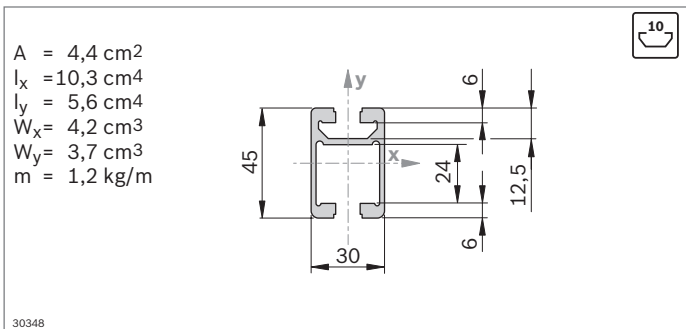
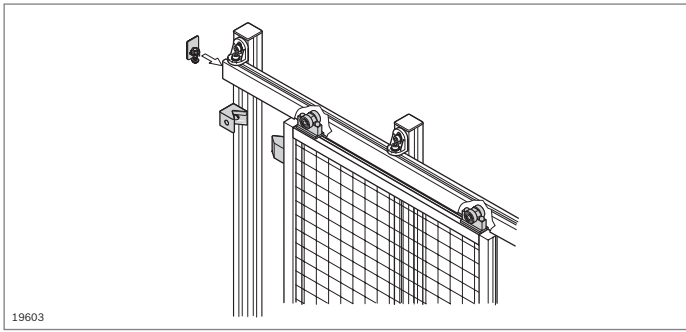
	Color	ESD	No.
Hopper 180x90	Gray (RAL 7035)		3 842 557 435
	Black	⚠	3 842 564 688



- Grab container base for an ergonomically optimized arrangement of grab containers

Grab container base	b x h x l (mm)	ESD No.
<b>SG 90</b>	90 x 149 x 315	<b>3 842 526 660</b>
		 <b>3 842 558 331</b>
<b>SG 180</b>	180 x 149 x 315	<b>3 842 526 665</b>
		 <b>3 842 559 310</b>

Material: Grab container base: Sheet steel; light gray powder coating (RAL 7035)  
 Grab container base ESD: Sheet steel; dusty gray (RAL 7037)



### Profile rail, trolley

- ▶ Profile rail and trolley for movable mounting of parts, e.g. for use as a screwdriver hanger at work tables or for EcoSafe sliding doors (p. 10-34)

Accessories:  
See page 12-4

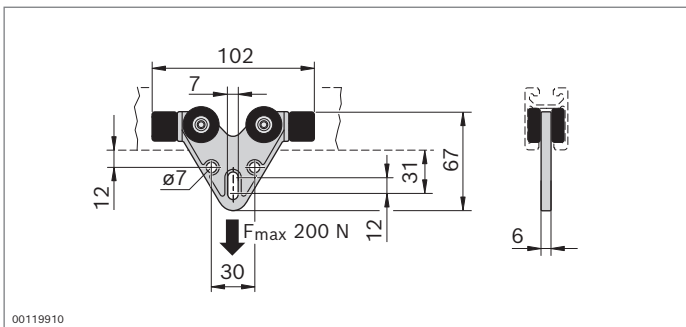
Profile rail 30x45C	L (mm)	No.
1 pc	50 ... 6070	<b>3 842 992 946 / L</b>
1 pc	6070	<b>3 842 558 312</b>
20 pcs	6070	<b>3 842 557 950</b>

Material: Aluminum; anodized

- ▶ Profile rail end piece for use for trolley as a cover cap with stop
- ▶ With screw protection

End piece 30x45C	Color	ESD	No.	FS
	Signal gray	20	<b>3 842 554 710</b>	FS1
	Black	20	<b>3 842 554 711</b>	FS1

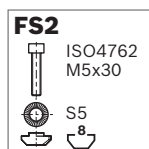
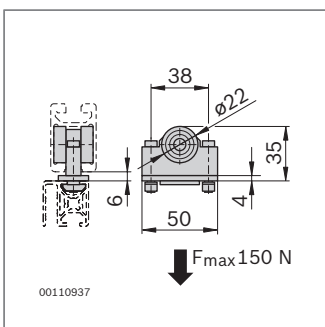
Material: End piece: PA  
Fastening material: Steel; zinc-plated  
Scope of delivery: Incl. fastening material (FS)



- ▶ Trolley with eye, e.g. for suspending a snap hook

Trolley for profile rail 30x45C	No.
	<b>1 3 842 521 510</b>

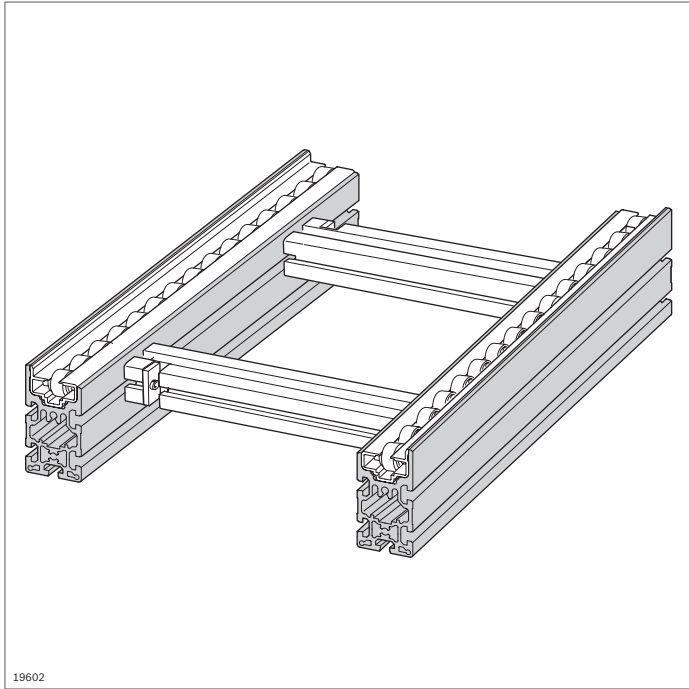
Material: Trolley: PA 6; black  
Cam roller: POM; natural  
Rubber buffer: NK/SBR; black



- ▶ Trolley with dust-proof ball bearings for smooth sliding motion
- ▶ For fastening profiles with a 8 mm slot

Trolley	No.	FS
	<b>1 3 842 524 153</b>	2xFS2

Material: PA; black / steel, zinc-plated  
Fastening material: Steel; zinc-plated  
Scope of delivery: Incl. fastening material (FS)



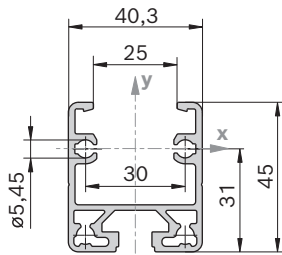
### Profiles for installing conveyor media



- Profiles that are normally used to construct the transfer systems TS 2*plus* and TS 4, as well as Lean conveyor sections, are also suitable for the construction of manual conveyor sections. Detailed information is available in chapter 12 “Elements for manual movement” and in the respective special catalogs

#### U-profile

$A = 4,4 \text{ cm}^2$   
 $I_x = 10,4 \text{ cm}^4$   
 $I_y = 8,3 \text{ cm}^4$   
 $W_x = 4,6 \text{ cm}^3$   
 $W_y = 4,1 \text{ cm}^3$   
 $m = 1,2 \text{ kg/m}$



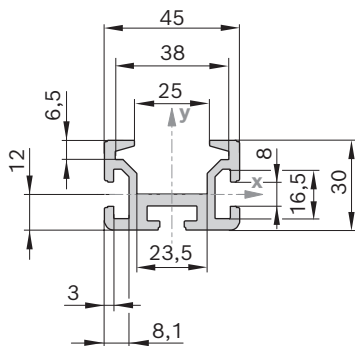
36861

U-profile	Slot	L (mm)	ESD No.
1 pc	10	50 ... 6070	<b>3 842 993 316 / L</b>
1 pc	10	6070	<b>3 842 564 223</b>
20 pcs	10	6070	<b>3 842 535 115</b>
1 pc	10	50 ... 6070	<b>3 842 995 027 / L</b>
20 pcs	10	6070	<b>3 842 541 814</b>

Material: U-profile: Aluminum, anodized  
U-profile ESD: Aluminum; untreated

#### SP 2/R

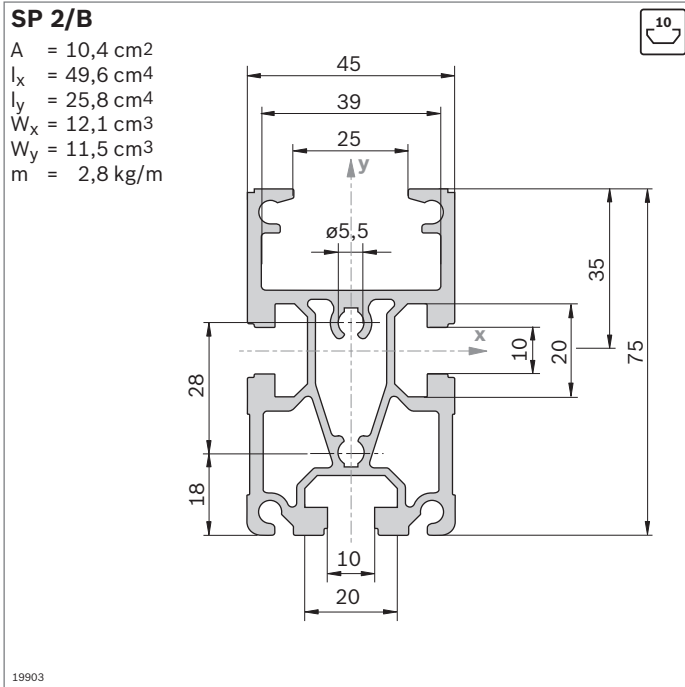
$A = 5,2 \text{ cm}^2$   
 $I_x = 4,3 \text{ cm}^4$   
 $I_y = 11,7 \text{ cm}^4$   
 $W_x = 2,4 \text{ cm}^3$   
 $W_y = 5,2 \text{ cm}^3$   
 $m = 1,4 \text{ kg/m}$



19893

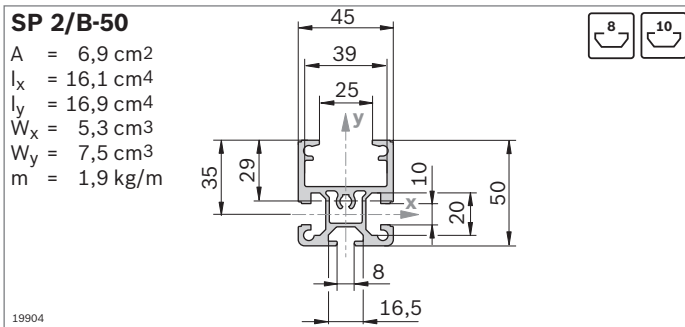
Section profile SP 2/R	L (mm)	No.
1 pc	50 ... 6070	<b>3 842 992 676</b>
1 pc	6070	<b>3 842 508 553</b>

Material: Aluminum; anodized



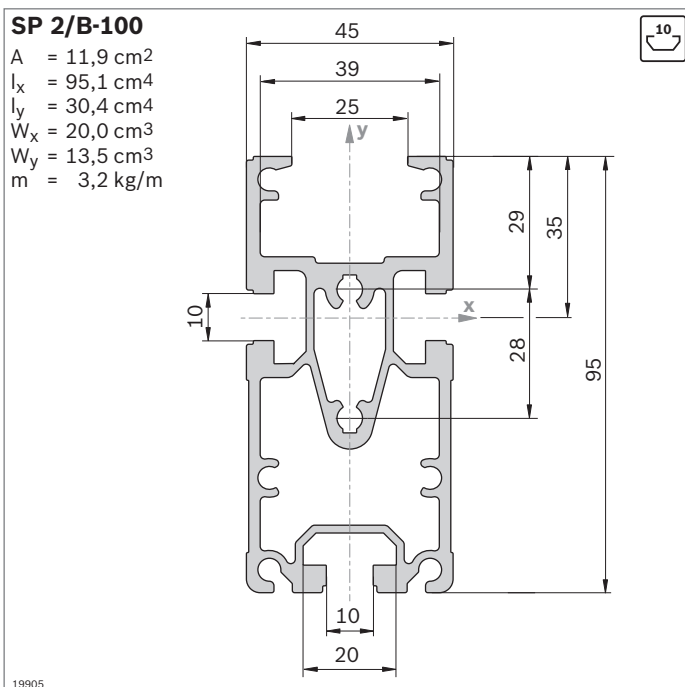
Section profile SP 2/B	Slot	L (mm)	No.
1 pc	10	200 ... 6070	<b>3 842 992 884 / L</b>
1 pc	10	6070	<b>3 842 532 698</b>
16 pcs	10	6070	<b>3 842 532 695</b>

Material: Aluminum; anodized



Section profile SP 2/B-50	Slot	L (mm)	No.
1 pc	8 / 10	200 ... 6070	<b>3 842 992 903 / L</b>
1 pc	8 / 10	6070	<b>3 842 532 670</b>
20 pcs	8 / 10	6070	<b>3 842 532 697</b>

Material: Aluminum; anodized

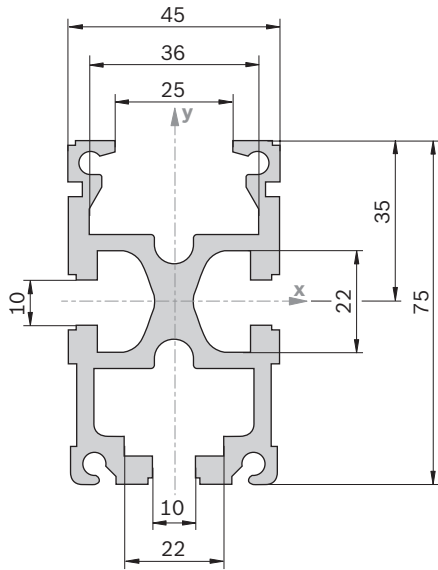


Section profile SP 2/B-100	Slot	L (mm)	No.
1 pc	10	200 ... 6070	<b>3 842 993 259 / L</b>
1 pc	10	6070	<b>3 842 532 592</b>
16 pcs	10	6070	<b>3 842 532 608</b>

Material: Aluminum; anodized

**SP 2/BH**

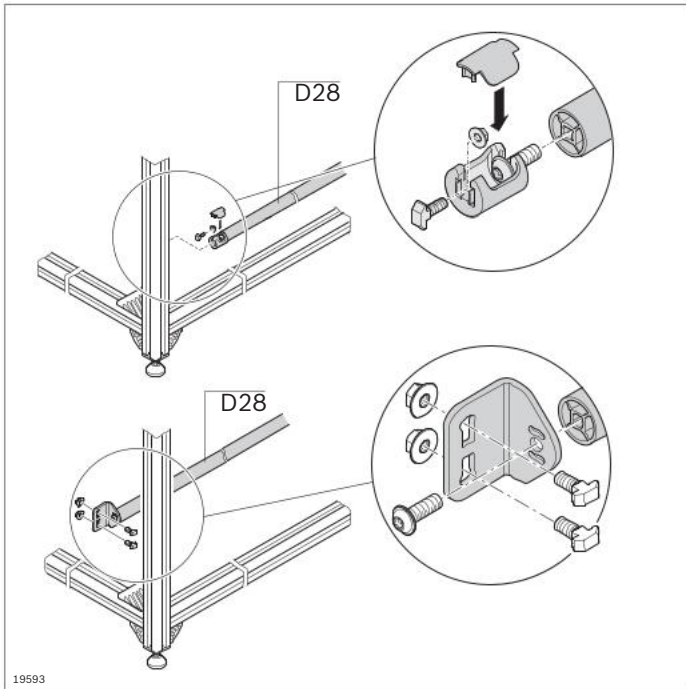
$A = 12,4 \text{ cm}^2$   
 $I_x = 53,7 \text{ cm}^4$   
 $I_y = 28,6 \text{ cm}^4$   
 $W_x = 14,0 \text{ cm}^3$   
 $W_y = 13,8 \text{ cm}^3$   
 $m = 3,3 \text{ kg/m}$



19906

Section profile SP 2/BH	Slot	L (mm)	No.
1 pc		10	200 ... 6070 <b>3 842 990 409 / L</b>
1 pc		10	6070 <b>3 842 532 699</b>
16 pcs		10	6070 <b>3 842 532 696</b>

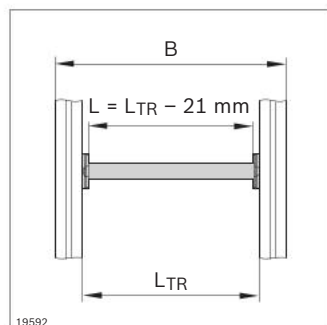
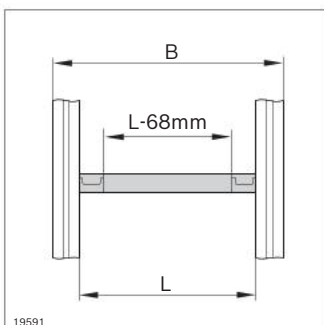
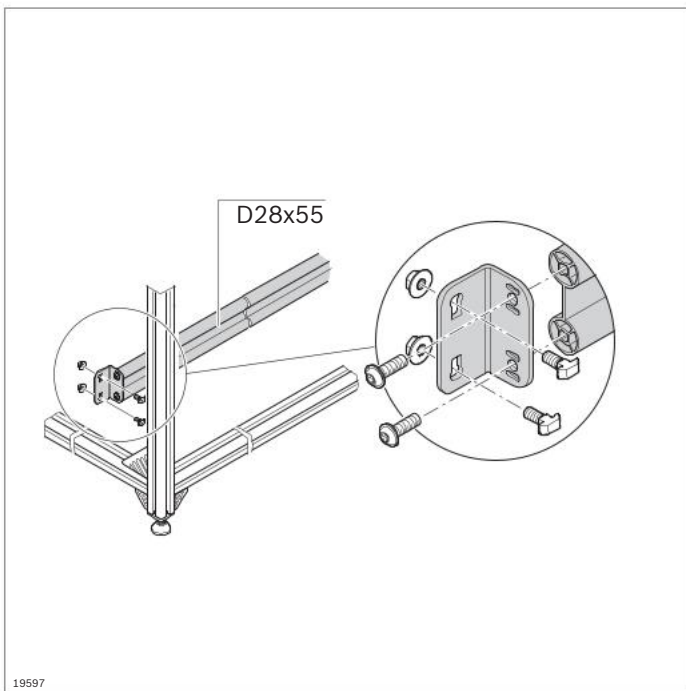
Material: Aluminum; anodized



### Round tube D28, strut profile D28x55 bracket, T-connector Bracket, T-connector

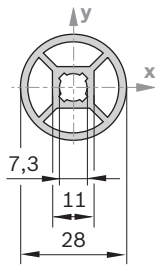


- ▶ For constructing cross ties in flow racks or workstations
- ▶ Suitable for heavy loads
- ▶ Use of brackets makes for easy assembly
- ▶ Elongated hole in the mounting bracket for longitudinal compensation
- ▶ Central holes can be used for self-tapping screws S8x25 (p. 3-43)
- ▶ For matching components to construct conveyor tracks, see chapter 12 “Elements for manual movement”



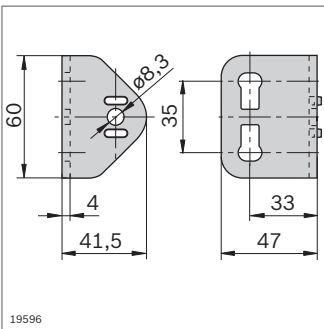
**D28**

A = 2,4 cm<sup>2</sup>  
 I<sub>x</sub> = 1,5 cm<sup>4</sup>  
 I<sub>y</sub> = 1,5 cm<sup>4</sup>  
 W<sub>x</sub> = 1,1 cm<sup>3</sup>  
 W<sub>y</sub> = 1,1 cm<sup>3</sup>  
 m = 0,7 kg/m

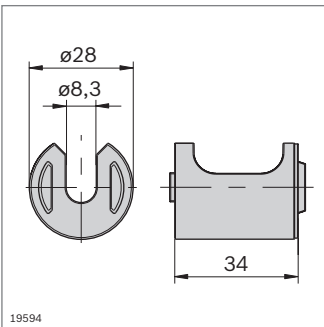
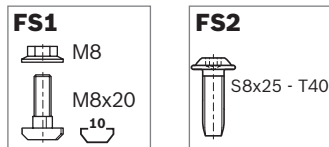


19505

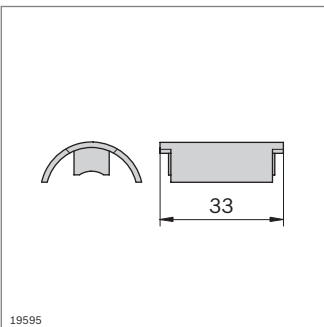
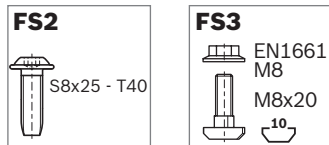
Cover cap D28	Color	ESD	No.
	Gray		20 3 842 537 718
	Black		20 3 842 535 835



19596



19594



19595

Round tube D28	L (mm)	No.
1 pc	50 ...	6070 3 842 993 317 / L
1 pc		6070 3 842 564 212
20 pcs		6070 3 842 535 118

Material: Aluminum; anodized  
 Accessories, optional: Labeling clip (p. 2-95)

**Holding bracket for round tube D28**

- ▶ For mounting a round tube D28 to a strut profile with a 10 mm slot
- ▶ Extremely simple mounting thanks to easy adjustment of the installation height

Bracket 60x47x4	No.	FS
	20 3 842 536 002	2xFS1, FS2

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

**T-connector for round tube D28**

- ▶ For mounting a round tube D28 to a strut profile with a 10 mm slot
- ▶ Without interfering contours

T-connector D28	No.	FS
	20 3 842 532 879	FS2, FS3

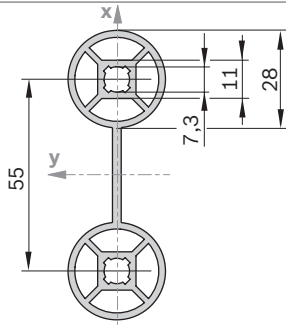
Material: T-connector: Diecast aluminum  
 Cover cap: ABS; black  
 Scope of delivery: Incl. cover cap, fastening material (FS)

Cover cap D28	No.
	20 3 842 532 878

Material: ABS; black

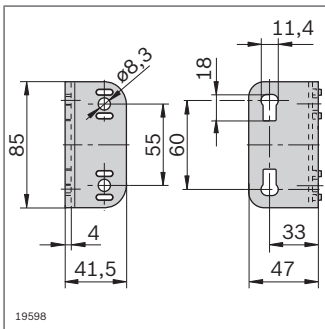
**D28x55**

A = 5,9 cm<sup>2</sup>  
 I<sub>x</sub> = 3,2 cm<sup>4</sup>  
 I<sub>y</sub> = 88,3 cm<sup>4</sup>  
 W<sub>x</sub> = 2,3 cm<sup>3</sup>  
 W<sub>y</sub> = 23,1 cm<sup>3</sup>  
 m = 1,6 kg/m

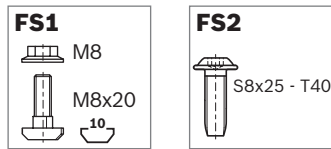


19468

Cover cap D28	Color	ESD	No.
(2x)	Gray	20	<b>3 842 537 718</b>
(2x)	Black	20	<b>3 842 535 835</b>



19598



Strut profile D28x55	L (mm)	No.
1 pc	100 ...	<b>6070 3 842 993 489 / L</b>
1 pc		<b>6070 3 842 564 214</b>
20 pcs		<b>6070 3 842 537 477</b>

Material: Aluminum; anodized  
 Accessories, optional: Labeling clip (p. 2-95)

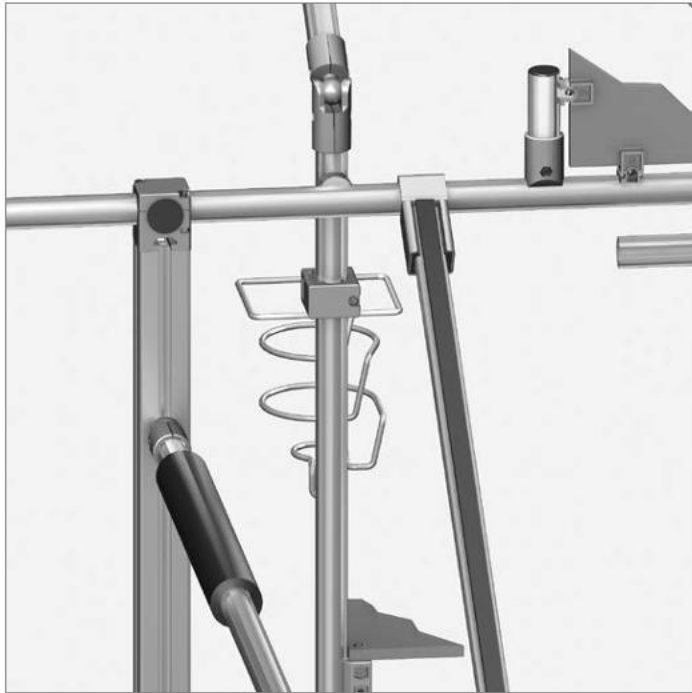
2

**Bracket 85x47x4**

- For mounting a strut profile D28x55 to a strut profile with a 10 mm slot
- Extremely simple mounting thanks to easy adjustment of the installation height

Bracket 85x47x4	No.	FS
20	<b>3 842 536 730</b>	2xFS1, 2xFS2

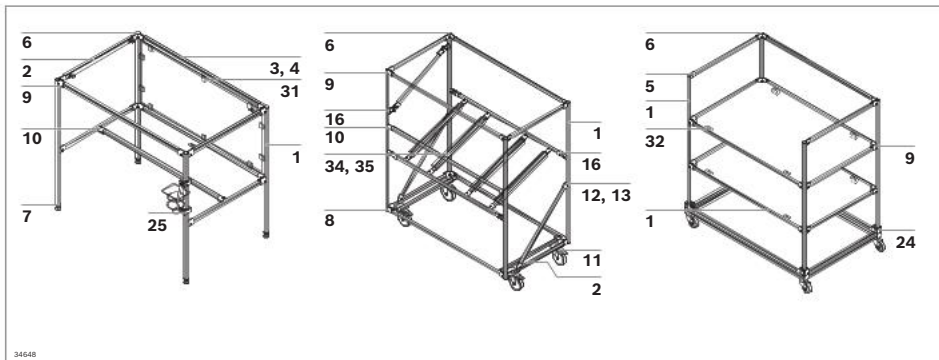
Material: Steel; zinc-plated  
 Scope of delivery: Incl. fastening material (FS)



### EcoShape tubular framing system



- ▶ Secure connection based on poka-yoke principle
- ▶ Accidental mistakes during assembly are prevented by the design
  - Anti-torsion element for secure joints
  - Form-fit connection
  - High dynamic load capacity
- ▶ All connectors are suitable for setting up ESD-conductive systems



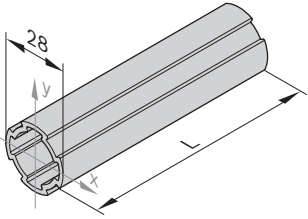
### Few components – countless options

The EcoShape system is characterized by its simplicity and efficiency: Using just a few components, you can build complete assembly lines as well as simple transport shuttles.

<p><b>1</b> Round tube D28L</p> 	<p><b>2</b> Round tube D28L, N10</p> 	<p><b>3</b> Slide rail D28L</p> 	<p><b>4</b> Slide rail D28L, SF</p> 
<p><b>5</b> Cover cap D28L</p> 	<p><b>6</b> Cover cap D28L, N10</p> 	<p><b>7</b> Threaded sleeve D28L, PA</p> 	<p><b>8</b> Threaded sleeve D28L, M12</p> 
<p><b>9</b> 90° Connector D28L</p> 	<p><b>10</b> 90° Connector D28L, inside</p> 	<p><b>11</b> Parallel connector D28L</p> 	<p><b>12</b> 45° Connector D28L</p> 
<p><b>13</b> 45° Connector D28L, inside</p> 	<p><b>14</b> Strut D28L, 45°</p> 	<p><b>15</b> Cross connector D28L</p> 	<p><b>16</b> 0°-90° Connector D28L</p> 
<p><b>17</b> 0°-90° Connector D28L</p> 	<p><b>18</b> Corner bracket D28L</p> 	<p><b>19</b> 90° connector R25, inside</p> 	<p><b>20</b> Swivel bearing D28L</p> 
<p><b>21</b> Bushing</p> 	<p><b>22</b> Retaining ring D28L</p> 	<p><b>23</b> Adapter N8, N10</p> 	<p><b>24</b> Adapter N10/45</p> 
<p><b>25</b> Adapter N10/30</p> 	<p><b>26/1</b> Adapter mount D28L</p>  <p><b>26/2</b> Container mount</p> 	<p><b>27</b> Adapter XLean</p> 	<p><b>28</b> Tube clamp D28L, N10</p> 
<p><b>29</b> Hinge D28L/D28L</p> 	<p><b>30</b> Hinge D28L/-</p> 	<p><b>31</b> Variofix block PA</p> 	<p><b>32</b> Variofix block Zn</p> 
<p><b>33</b> Mounting bracket D28L</p> 	<p><b>34</b> Impact protection</p> 	<p><b>35</b> Impact protection D28L</p> 	<p><b>36</b> Ring D50</p> 
<p><b>37</b> Rubber foot D28</p> 	<p><b>38</b> Stopper D28L, N10</p> 	<p><b>39/40</b> EcoShape base plate</p> 	<p><b>41</b> Tension wire</p> 

**1**

A = 1,8 cm<sup>2</sup>  
 $I_x = 1,3 \text{ cm}^4$   
 $I_y = 1,3 \text{ cm}^4$   
 $W_x = 1,0 \text{ cm}^3$   
 $W_y = 1,0 \text{ cm}^3$   
 m = 0,5 kg/m



36996

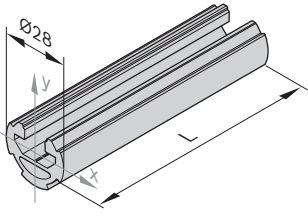

- ▶ Round tube D28L with 4 interfaces for attaching EcoShape connectors

Round tube D28L		L (mm)	No.
1 pc		50 ... 6070	<b>3 842 994 291/L</b>
50 pcs		6070	<b>3 842 567 384</b>
1 pc		6070	<b>3 842 567 386</b>

Material: Aluminum; anodized

**2**

A = 2,6 cm<sup>2</sup>  
 $I_x = 1,0 \text{ cm}^4$   
 $I_y = 2,0 \text{ cm}^4$   
 $W_x = 1,4 \text{ cm}^3$   
 $W_y = 0,8 \text{ cm}^3$   
 m = 0,7 kg/m

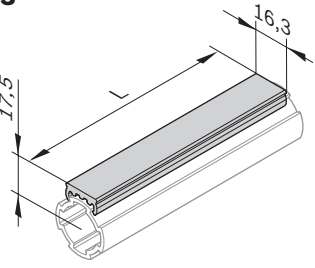
36997

- ▶ Round tube D28L, N10 with 10 mm slot for mounting accessories from the aluminum profile construction kit
- ▶ 3 interfaces for EcoShape connectors

Round tube D28L, N10		L (mm)	No.
1 pc		50 ... 6070	<b>3 842 994 292/L</b>
20 pcs		6070	<b>3 842 567 385</b>
1 pc			<b>3 842 567 387</b>

Material: Aluminum; anodized

**3**



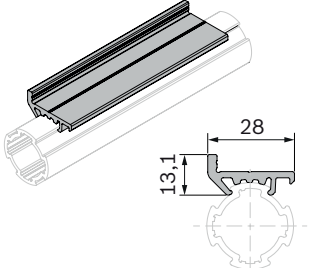
00134987

- ▶ Slide rail for creating a simple conveyor track or manual slide section by clipping the slide rail onto the round tube D28L or D28L, N10

Slide rail D28L	L (mm)	ESD		No.
Signal gray	2000		10	<b>3 842 554 750</b>
Black	2000		10	<b>3 842 548 117</b>

Material: PVC

**4**

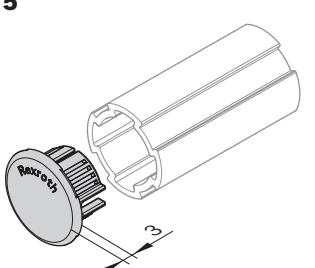
47482

- ▶ Slide rail with lateral guide for creating a simple conveyor track or manual slide section by clipping the slide rail onto the round tube D28L or D28L, N10

Slide rail D28L SF	L (mm)	ESD		No.
Signal gray	2000		10	<b>3 842 567 346</b>
Black	2000		10	<b>3 842 567 347</b>

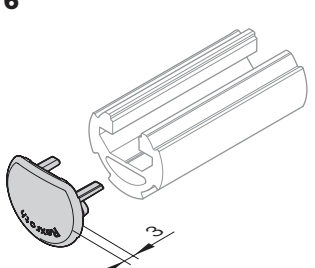
Material: PVC

**5**



24132

**6**

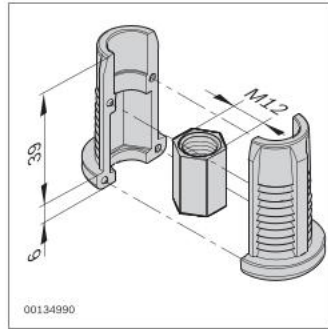


24133

- ▶ Cover cap for round tube D28L and D28L, N10

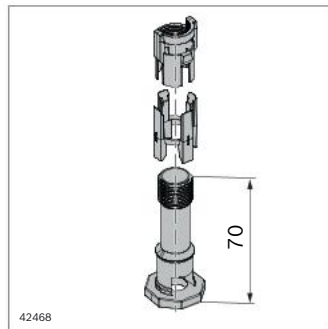
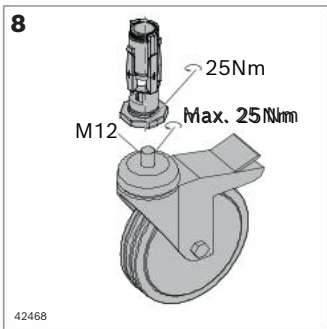
Cover cap		ESD		No.
<b>5</b> D28L	Signal gray		20	<b>3 842 554 752</b>
	Black		20	<b>3 842 548 129</b>
<b>6</b> D28L, N10	Signal gray		20	<b>3 842 554 754</b>
	Black		20	<b>3 842 548 130</b>

Material: PA6, PA666 (conductive)



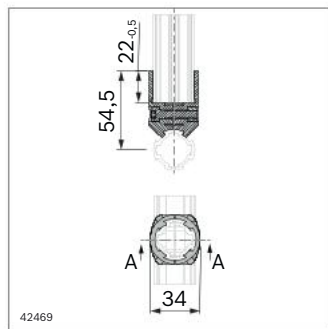
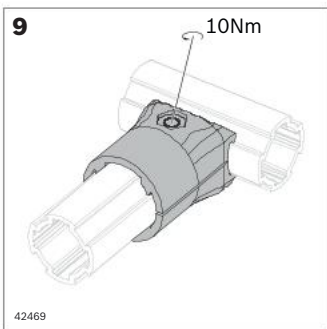
- ▶ Threaded sleeve for incorporating a leveling foot or castor wheel

Threaded sleeve D28L, PA	ESD	No.
Black	20	3 842 541 185
Material:	PA66	Hexagon nut: Aluminum



- ▶ Threaded sleeve for incorporating a leveling foot or castor wheel for dynamic loads

Threaded sleeve D28L, M12	ESD	No.
	20	3 842 567 349
Material:	Die-cast aluminum / galvanized steel	



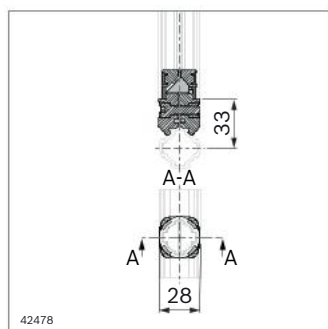
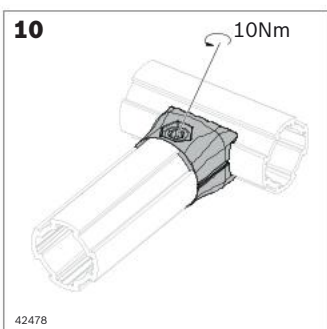
90° connector D28L	ESD	No.	FS
	20	3 842 567 339	FS1

Material: Diecast aluminum  
 Scope of delivery: Incl. fastening material (FS)

**FS1**

ISO14579  
M6x25

DIN EN  
ISO7042  
M6



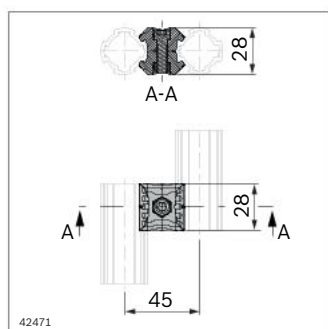
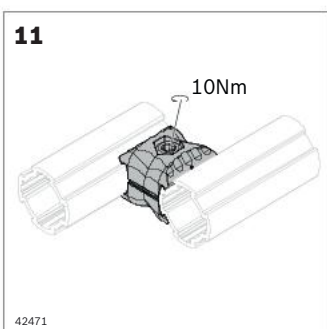
90° connector D28L, inside	ESD	No.	FS
	20	3 842 567 341	FS2

Material: Diecast aluminum  
 Scope of delivery: Incl. fastening material (FS)

**FS2**

ISO14579  
M6x20

DIN EN  
ISO7042  
M6



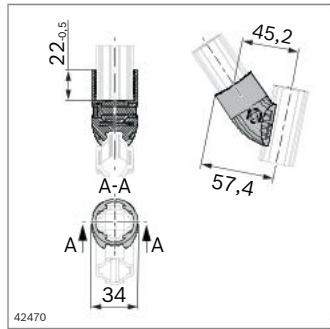
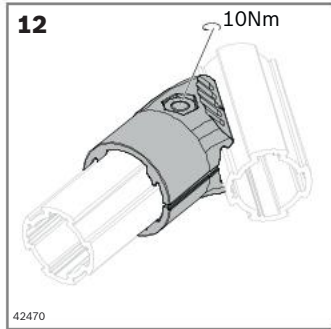
Parallel connector D28L	ESD	No.	FS
	20	3 842 567 350	FS2

Material: Diecast aluminum  
 Scope of delivery: Incl. fastening material (FS)

**FS2**

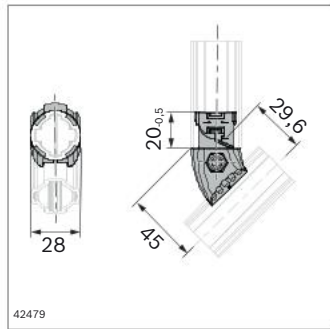
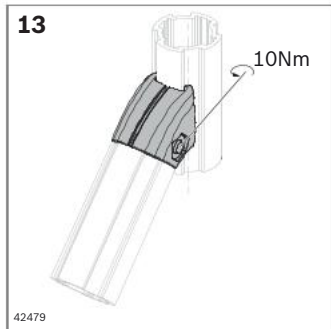
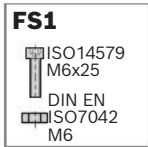
ISO14579  
M6x25

DIN EN  
ISO7042  
M6



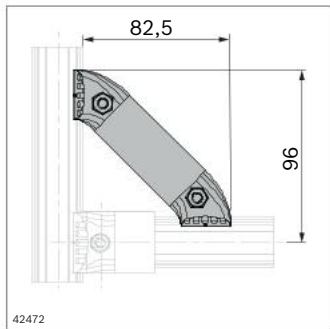
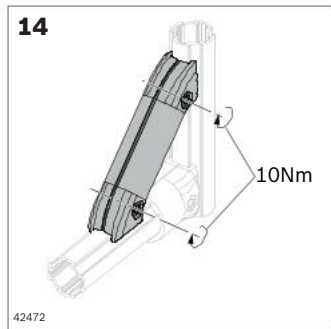
45° connector D28L	ESD	No.	FS
	20	3 842 567 340	FS1

Material: Diecast aluminum  
 Scope of delivery: Incl. fastening material (FS)



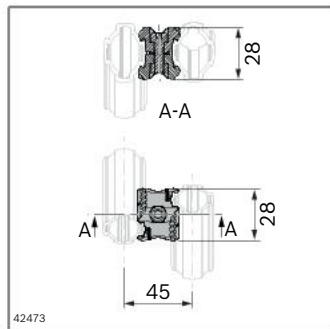
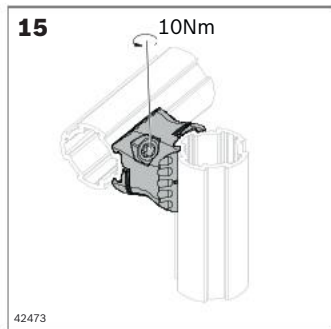
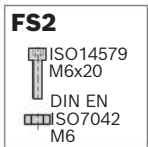
45° connector D28L, inside	ESD	No.	FS
	20	3 842 567 342	FS2

Material: Diecast aluminum  
 Scope of delivery: Incl. fastening material (FS)



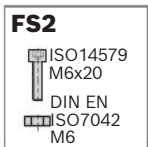
Strut D28L, 45°	ESD	No.	FS
	20	3 842 567 351	2xFS2

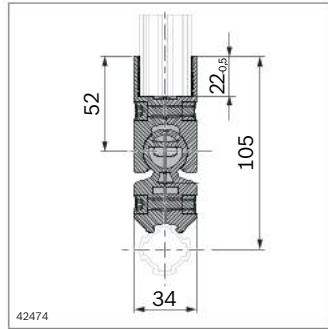
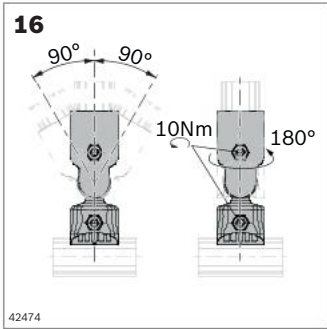
Material: Diecast aluminum  
 Scope of delivery: Incl. fastening material (FS)



Cross connector D28L	ESD	No.	FS
	20	3 842 567 352	FS2

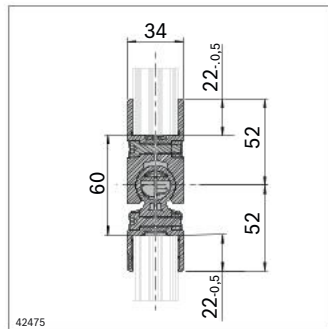
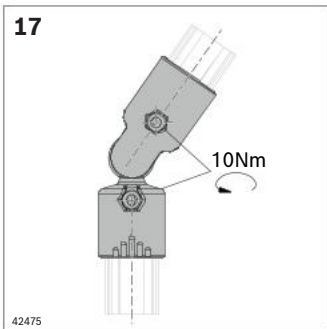
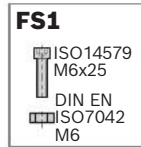
Material: Diecast aluminum  
 Scope of delivery: Incl. fastening material (FS)





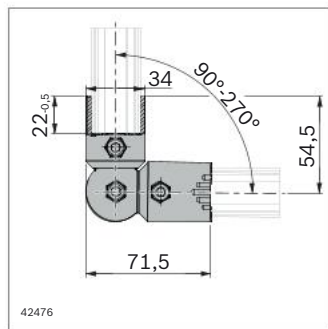
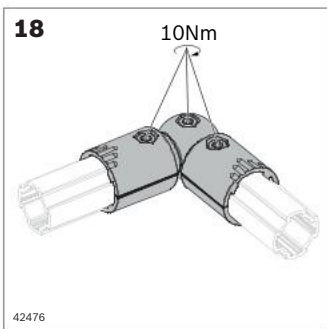
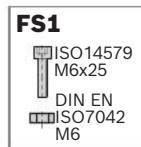
0°-90° connector D28L	ESD	No.	FS
	20	3 842 567 353	2xFS1

Material: Diecast aluminum  
 Scope of delivery: Incl. fastening material (FS)



0°-90° connector D28L	ESD	No.	FS
	20	3 842 567 390	2xFS1

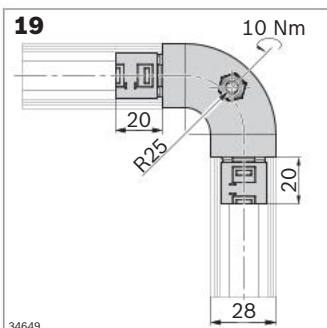
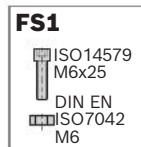
Material: Diecast aluminum  
 Scope of delivery: Incl. fastening material (FS)



- ▶ Corner bracket D28L for easy adjustment within a 15° range
- ▶ Swivel range: 90°-270°

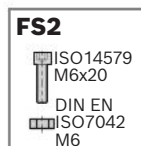
90°-270° corner bracket D28L	ESD	No.	FS
	20	3 842 567 355	3xFS1

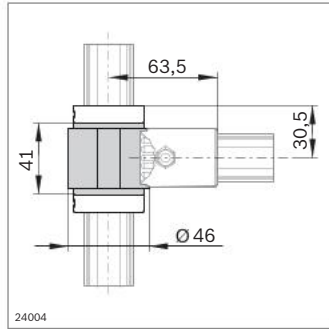
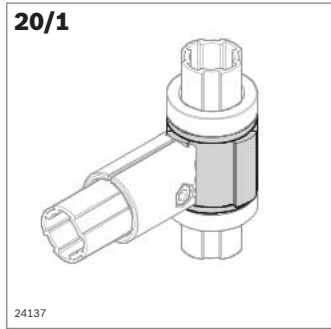
Material: Diecast aluminum  
 Scope of delivery: Incl. fastening material (FS)



90° connector R25, inside	No.	FS
20	3 842 567 381	FS2

Material: Diecast aluminum  
 Scope of delivery: Incl. fastening material (FS)





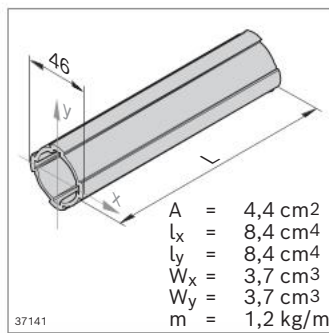
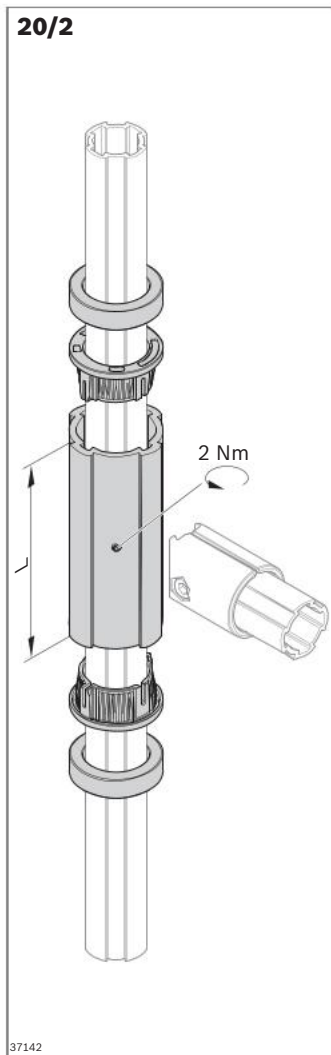
- ▶ For axial shifting along the round tube D28L or D28L, N10. End position defined via retaining ring
- ▶ Construction of swiveling applications
- ▶ Additional thread for flexible bracket adjustment

Required accessories:

- ▶ Retaining ring D28L

Swivel bearing D28L	L (mm)	No.
	34 20	<b>3 842 548 121</b>

Material: Swivel bearing: Aluminum  
 Scope of delivery: Swivel bearing D28L, L = 34 mm; bushing D28 (17), headless setscrew ISO 4026 M4x10

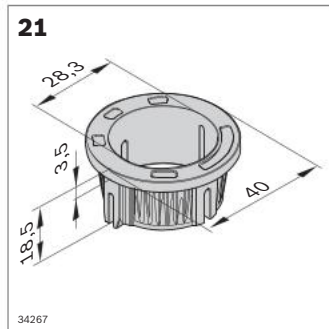


For self-assembly:

- ▶ Swivel bearing D28L with L = 1000 mm, can be cut to length

Swivel bearing D28L	L (mm)	No.
	1000 2	<b>3 842 557 298</b>

Material: Aluminum



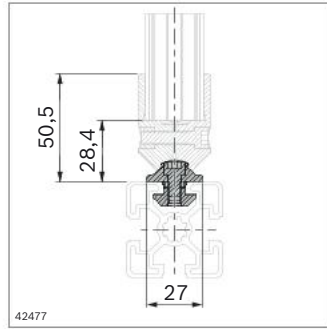
Bushing D28	No.
	4 <b>3 842 557 299</b>

Material: POM; black



Retaining ring D28L	ESD	No.
	4	<b>3 842 548 122</b>

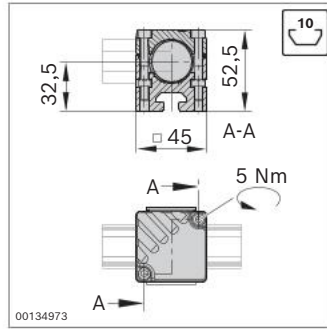
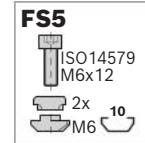
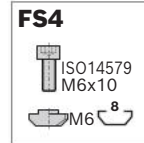
Material: Aluminum  
 Scope of delivery: Retaining ring incl. headless setscrew DIN 913 M6x6



- ▶ Adapter N8, N10 for connection to a Rexroth strut profile (8 mm slot, 10 mm slot)

Adapter N8, N10	ESD	No.	FS
	20	3 842 567 354	FS4, FS5

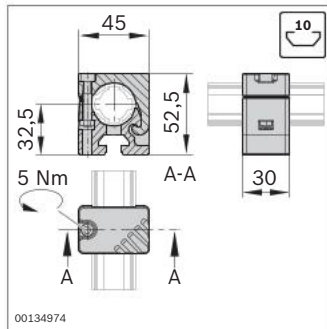
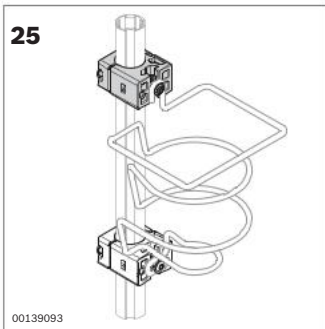
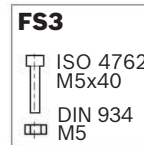
Material: Diecast zinc  
 Scope of delivery: Incl. fastening material (FS)



- ▶ Adapter N10/45 for connecting round tube D28L or D28L, N10 to a profile with 10 mm slot

Adapter N10/45	ESD	No.	FS
	20	3 842 541 187	2xFS3

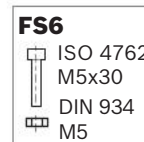
Material: Adapter: Diecast zinc  
 Cover cap: PE  
 Scope of delivery: Incl. cover cap, fastening material (FS)

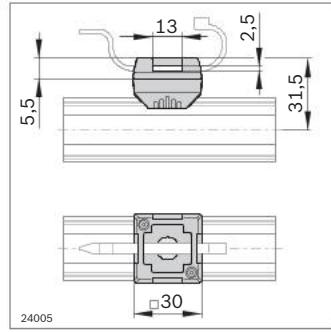
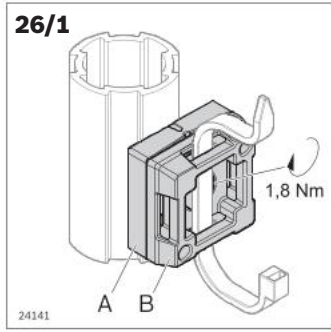


- ▶ Adapter N10/30 for fastening light accessories, such as a bottle holder to a round tube D28L

Adapter N10/30	ESD	No.	FS
	20	3 842 541 190	FS6

Material: Diecast zinc  
 Scope of delivery: Incl. fastening material (FS)

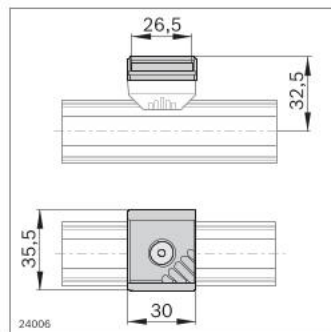
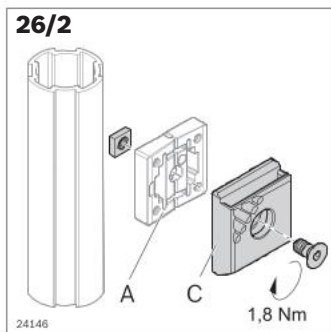
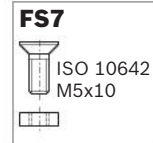




► For attaching cable ties

Adapter mount D28L	ESD	No.	FS
A + B	20	<b>3 842 548 120</b>	FS7

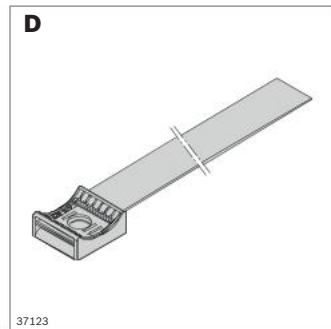
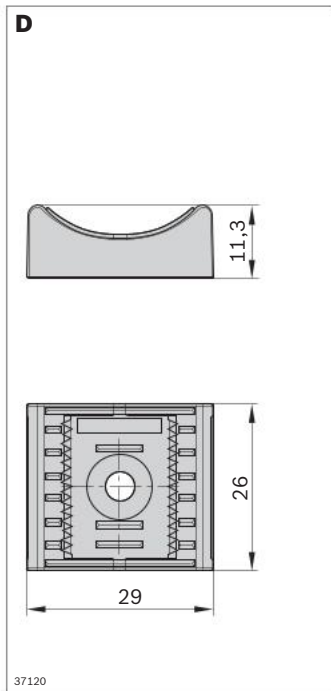
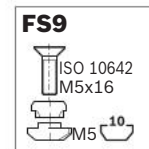
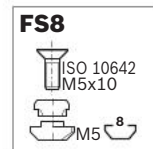
Material: PA66; black  
 Scope of delivery: Incl. fastening material (FS)



► For attaching containers using the container mount

Container mount	ESD	No.	FS
C	10	<b>3 842 544 797</b>	FS8, FS12

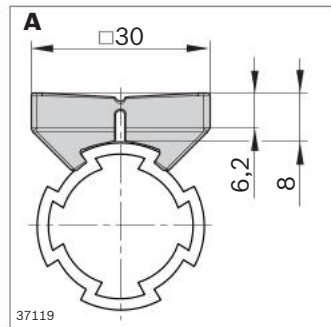
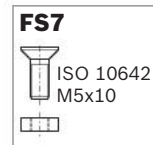
Material: PA66; black  
 Scope of delivery: Incl. fastening material (FS)

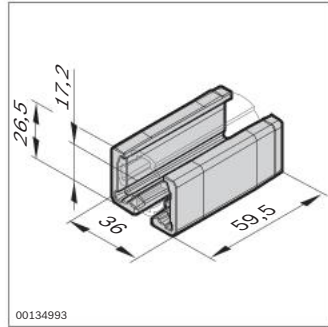
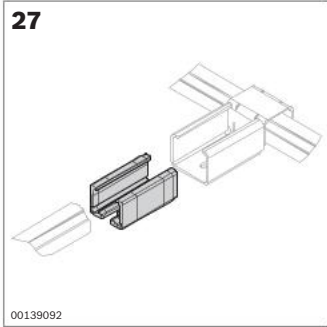


- Loop flat cable bracket (D) for direct assembly on panel element or table top
- Can be mounted on adapter D28L (A) for attachment to EcoShape profiles
- Can be used with M4 and M5 screws
- Adapter for attaching loop flat cable holder to EcoShape profiles
- Adapter D28L (A) for fastening of container mount

Cable bracket + adapter	ESD	No.	FS
D Cable bracket loop flat	10	<b>3 842 559 380</b>	
A Adapter D28L	10	<b>3 842 562 115</b>	FS7

Material: Cable bracket: PP; black; UL certified  
 Velcro strap: PP, PPA (velour); UL certified  
 Adapter: PA; black  
 Mounting kit: Steel; zinc-plated  
 Scope of delivery: Adapter incl. fastening material (FS)

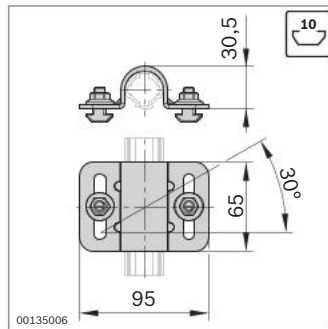
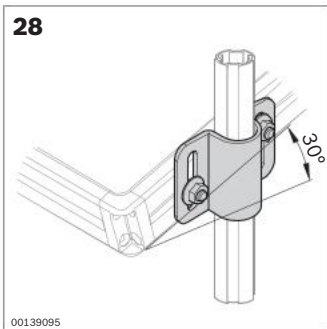




- ▶ Adapter XLean for combination with XLean. The adapter XLean connects the round tube D28L to the rail holder XLean

Adapter XLean	ESD	No.
	20	3 842 541 296

Material: PA66; black

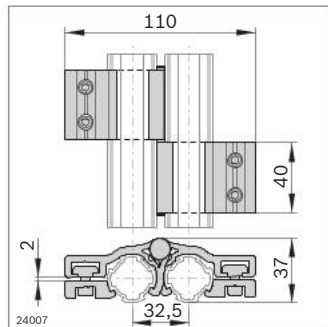
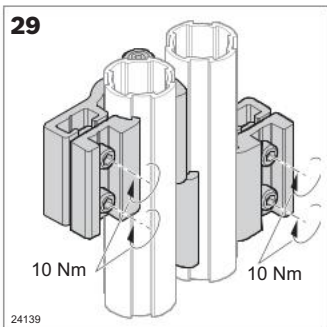
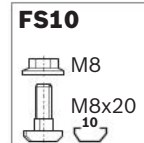


- ▶ Tube clamp D28L, N10 for fastening material shelves with 10 mm slot to the round tube D28L. Oblique positioning up to 30° possible

Tube clamp D28L, N10	ESD	No.	FS
	20	3 842 541 193	2xFS10

Material: Steel; zinc-plated

Scope of delivery: Incl. fastening material (FS)

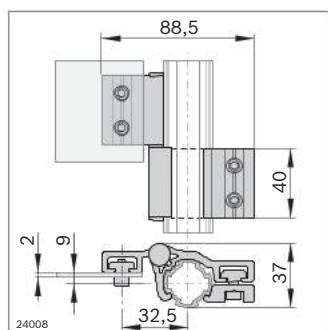
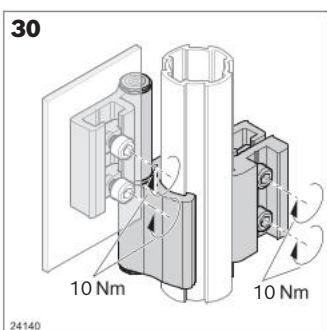
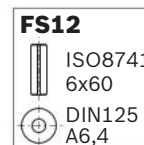
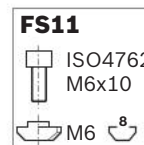


- ▶ Opening angle: 180°
- ▶ For mounting round tube D28L

Hinge D28L/D28L	ESD	No.	FS
	2	3 842 548 126	4xFS11, FS12

Material: Aluminum

Scope of delivery: Incl. fastening material (FS)

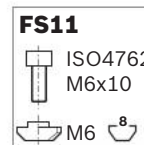


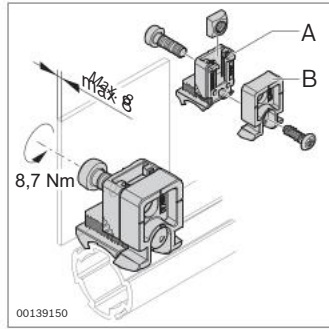
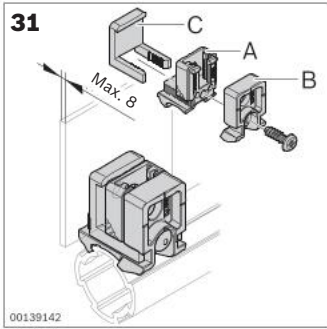
- ▶ Opening angle: 180°
- ▶ For mounting panel elements

Hinge D28L/-	ESD	No.	FS
	2	3 842 548 127	2xFS11, FS12

Material: Aluminum

Scope of delivery: Incl. Fastening material





- ▶ Plastic Variofix block for fastening panel elements with snap-in clips or a screw
- ▶ Variofix remover for releasing the snap-in clip

Variofix block PA	No.	FS
A + B	20 <b>3 842 543 311</b>	FS13, FS14

Material: PA66; black

Scope of delivery: Incl. fastening material (FS)

**FS13**

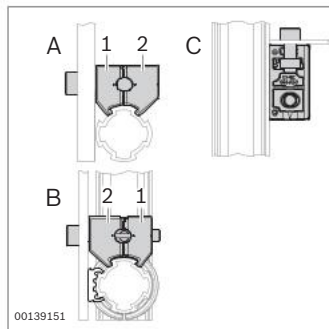
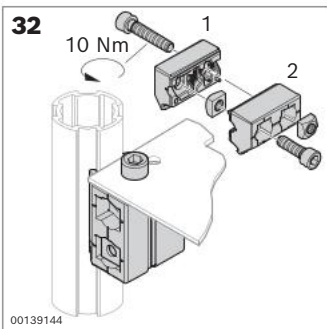
- ISO 4762 M6x16
- DIN 557 M6

**FS14**



Snap-in clip	No.
C	10 <b>3 842 184 738</b>

Material: PA6; transparent



- ▶ Diecast zinc Variofix block for fastening panel elements
- ▶ Three arrangements possible ("A", "B", "C")

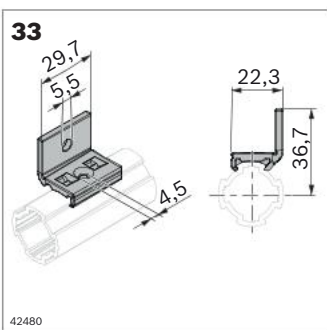
Variofix block Zn	ESD	No.	FS
		20 <b>3 842 543 494</b>	FS15

Material: Diecast zinc

Scope of delivery: Incl. fastening material (FS)

**FS15**

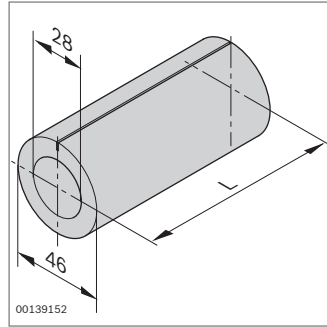
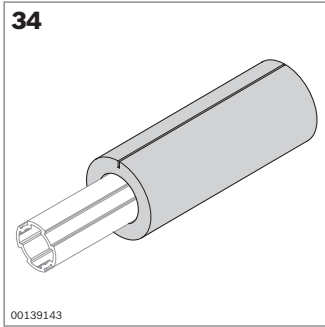
- ISO 4762 M6x22
- ISO 4762 M6x30
- DIN 557 M6
- 2x



- ▶ Diecast zinc mounting bracket D28L for fastening panel elements
- ▶ Recommended for ESD applications: Countersunk self-tapping screw ISO 15482-ST4, 2x13

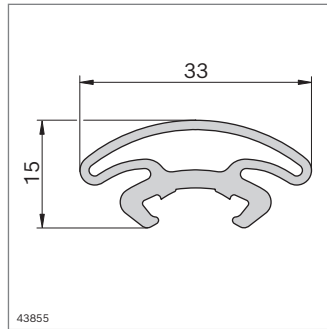
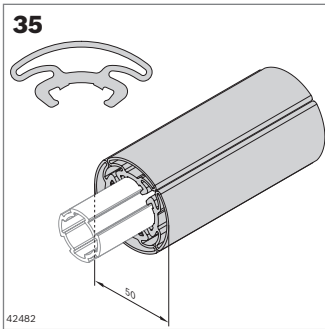
Mounting bracket D28L	ESD	No.
		10 <b>3 842 567 368</b>

Material: PA66,



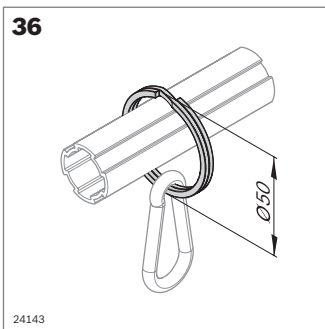
Impact protection	L (mm)		No.
	2000	10	<b>3 842 544 637</b>

Material: PE-LD; gray



Impact protection D28L	L (mm)		ESD	No.
Signal gray	2000	10		<b>3 842 567 344</b>
Black	2000	10		<b>3 842 567 345</b>

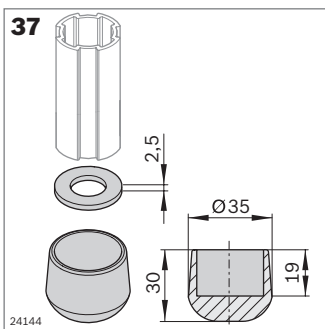
Material: TPV, TPE (conductive)



► For designing simple tool holders

Ring + spring hook		No.
Ring D50	20	<b>3 842 548 131</b>
Spring hook	1	<b>0 842 901 309</b>

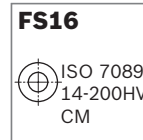
Material: Ring: Steel; nickel-plated  
Spring hook: Steel; zinc-plated

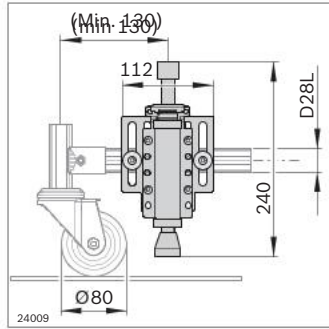
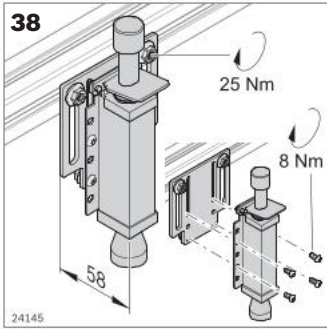


► Non-slip design of flow racks and stands

Rubber foot D28	ESD		No.	FS
		20	<b>3 842 548 128</b>	FS16

Material: NR/SBR; black





- ▶ To stop material shuttles ergonomically at just one point
- ▶ Universal attachment to different round tubes and profile cross-sections
- ▶ Stopper tension path: 34 mm

Stopper D28L, N10	No.	FS
	<b>3 842 548 132</b>	4xFS16, 2xFS18

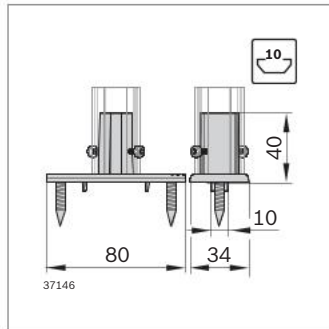
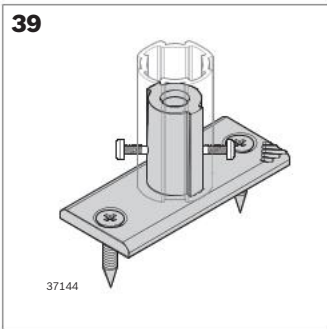
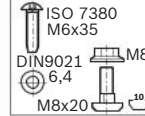
Material: Stopper: Stainless steel, EPDM  
Attachment plate: Aluminum

Scope of delivery: Incl. fastening material (FS)

**FS17**



**FS18**



- ▶ Base plate for fastening frames directly onto walls, floors, table tops and strut profiles with 10 mm slot via EcoShape round tubes
- ▶ No additional connector required
- ▶ Centering lugs as anti-torsion elements (can be broken off)
- ▶ Reference load for profile installation: 15 Nm admissible in lengthwise and crosswise direction Load values for installation on other surfaces dependent on material

Recommended accessories for profile installation:

- ▶ Countersunk screw ISO 10642 M5x16-8.8
- ▶ T-nut (**3 842 530 283**)

Accessories, optional:

Self-tapping screw (**3 842 552 267**)

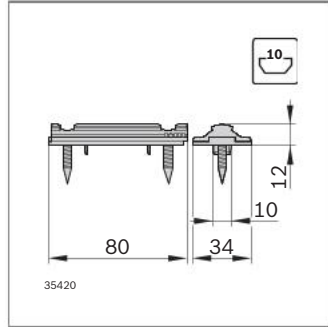
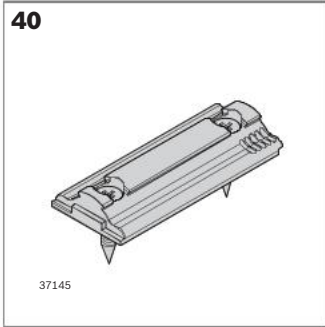
Base plate D28L	ESD	No.	FS
		<b>3 842 559 346</b>	2xFS19

Material: Diecast zinc

Scope of delivery: Incl. fastening material (FS)

**FS19**





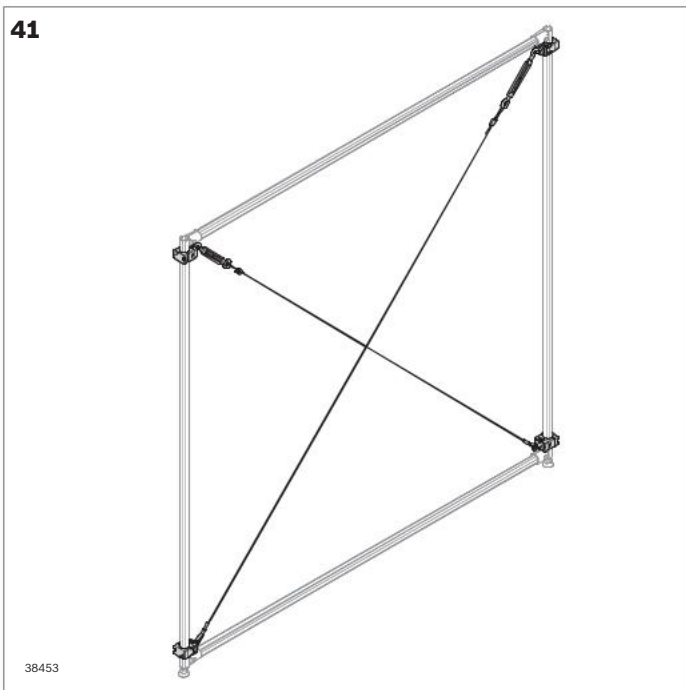
- ▶ Base plate for fastening frames directly onto walls, floors, table tops and strut profiles with 10 mm slot via EcoShape round tubes
- ▶ No additional connector required
- ▶ Centering lugs as anti-torsion elements (can be broken off)
- ▶ Reference load for profile installation: 15 Nm admissible in lengthwise and crosswise direction Load values for installation on other surfaces dependent on material

Recommended accessories for profile installation:

- ▶ Countersunk screw ISO 10642 M5x16-8.8
- ▶ T-nut (**3 842 530 283**)

EcoShape base plate	ESD	No.	FS
		10 <b>3 842 559 345</b>	2xFS19

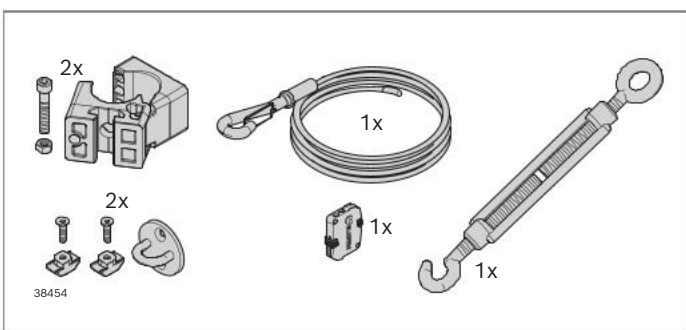
Material: Diecast zinc  
 Scope of delivery: Incl. fastening material (FS)

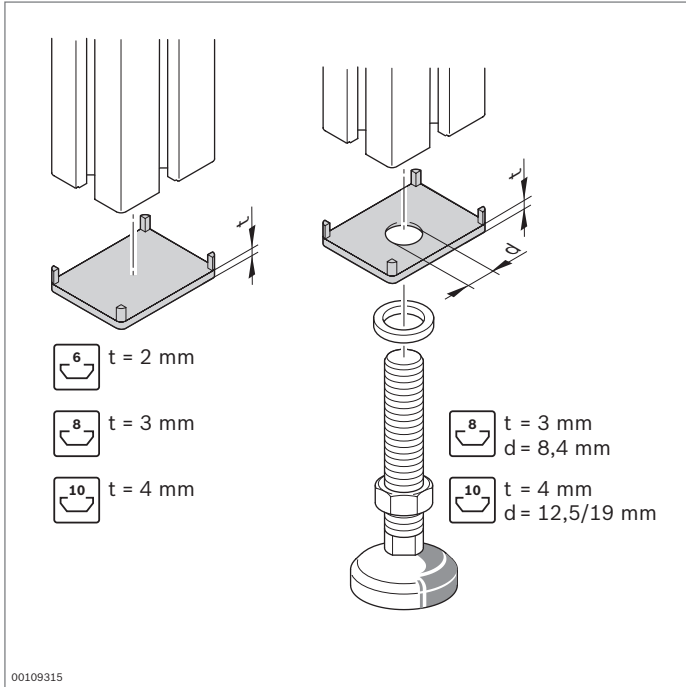


- ▶ Reinforcement option for EcoShape applications
- ▶ Max. tensioning force 500 N

Tension wire	L (mm)	ESD	No.
	3000		2 <b>3 842 562 083</b>

Material: Eye, tension lock: Stainless steel  
 Wire rope: Steel; zinc-plated  
 Scope of delivery: Incl. fastening material for fastening to the D28L round tube



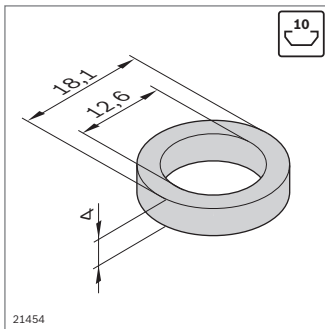


### Cover cap Cover cap with hole



- ▶ To prevent injuries at open profile ends
- ▶ Attractive design
- ▶ Cover cap with hole for use with leveling feet and rollers
- ▶ Cover cap material: PA or PP

Order information for the cover caps can be found in the profile section



### Bearing ring

- ▶ For cover caps with hole in the sizes 40x40, 45x45, 50x50 and 60x60
- ▶ For M12 threads
- ▶ To protect the cover caps when tightening accessories

Bearing ring	ESD No.
	100 3 842 555 653

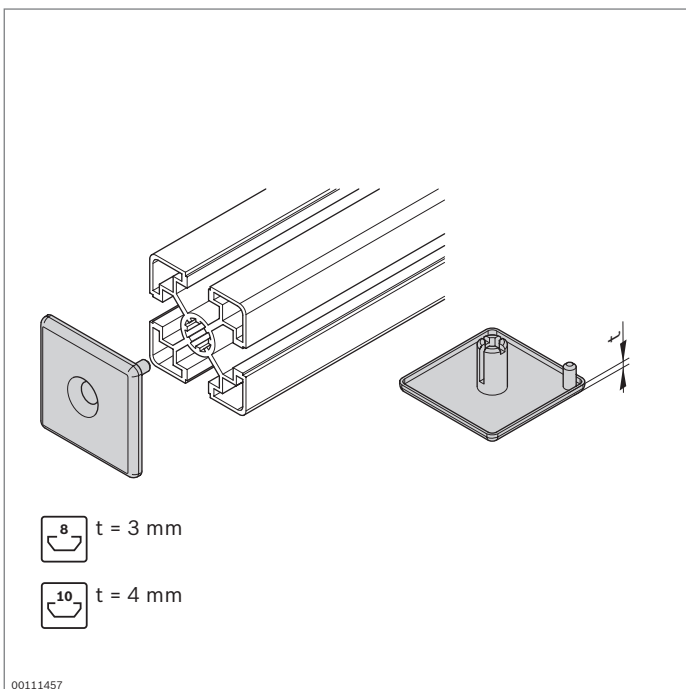
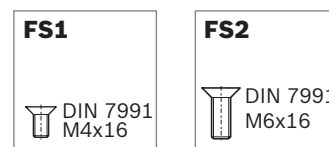
Material: Diecast zinc

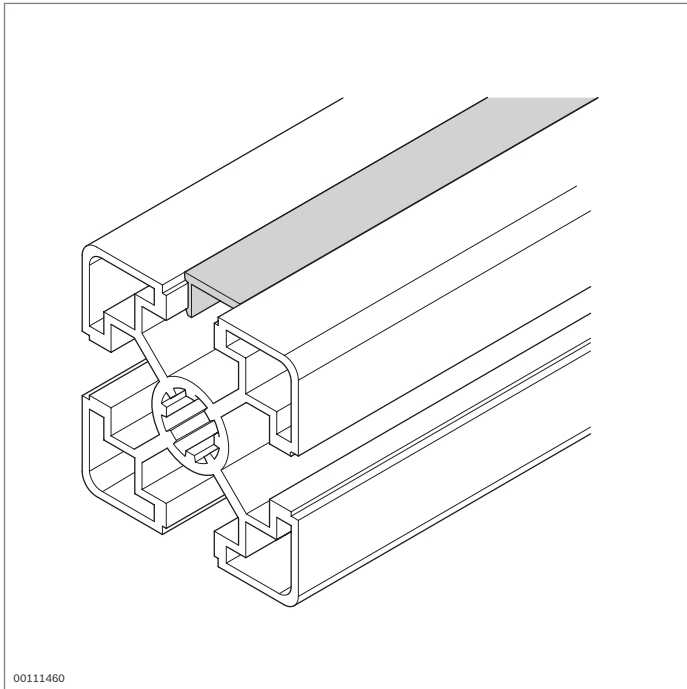
### Diecast zinc cover cap

- ▶ Shock-proof
- ▶ Resistant to aggressive media
- ▶ Fastening with countersunk screw; profile finishing not required

Cover cap ZN	ESD No.	FS
30x30-ZN	3 842 518 204	FS1
40x40-ZN	3 842 541 807	FS2
45x45-ZN	3 842 518 205	FS2

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

















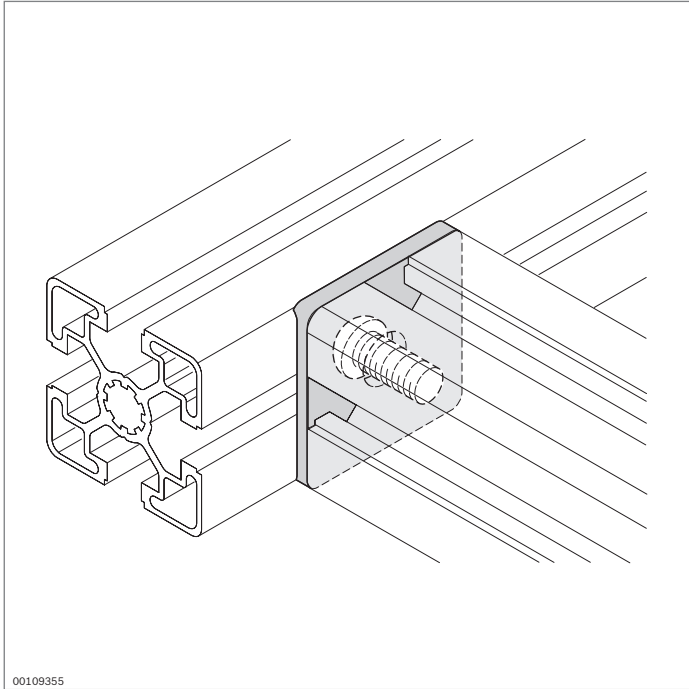


### Cover profiles



- ▶ For fixing cables in position
- ▶ To prevent dirt from entering the profile slot
- ▶ Attractive design
- ▶ Soft PVC cover profile for 6 mm slot is provided as a roller
- ▶ Flush with profile
- ▶ An ESD-conductive connection between the cover profile and the strut profile must be ensured by a suitable design solution, e.g. screw

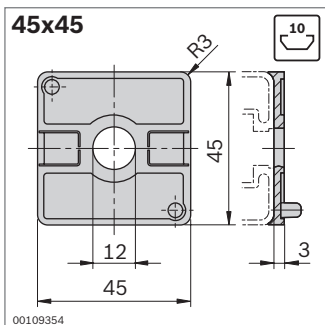
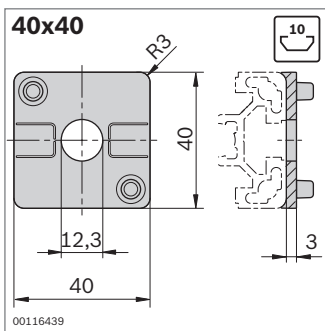
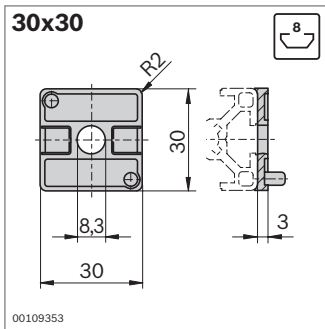
Cover profile, 6 mm slot	Color	Material	ESD	L (mm)		No.
 00109365	Colorless, natural	Aluminum; anodized		2000	10	<b>3 842 523 254</b>
 00117777	Signal gray (RAL 7004)	Soft PVC		10000	1	<b>3 842 555 268</b>
Cover profile, 8 mm slot	Color	Material	ESD	L (mm)		No.
 00109366	Colorless, natural	Aluminum; anodized		2000	10	<b>3 842 523 256</b>
 00109367	Signal gray (RAL 7004)	PP		2000	10	<b>3 842 548 878</b>
	Black (RAL 9005)	PP		2000	10	<b>3 842 548 879</b>
	Light gray (RAL 7035)	PP		2000	10	<b>3 842 548 898</b>
	Red (RAL 3020)	PP		2000	10	<b>3 842 549 878</b>
	Yellow (RAL 1023)	PP		2000	10	<b>3 842 549 879</b>
	Green (RAL 6032)	PP		2000	10	<b>3 842 554 771</b>
	Blue (RAL 5010)	PP		2000	10	<b>3 842 549 880</b>
	Orange (RAL 2004)	PP		2000	10	<b>3 842 549 881</b>
	Colorless, transparent	PET		2000	10	<b>3 842 549 877</b>
Cover profile, 10 mm slot	Color	Material	ESD	L (mm)		No.
 00109368	Colorless, natural	Aluminum; anodized		2000	10	<b>3 842 523 258</b>
 19502	Signal gray (RAL 7004)	Hard PVC		2000	10	<b>3 842 548 876</b>
	Black (RAL 9005)	Hard PVC		2000	10	<b>3 842 548 877</b>
	Light gray (RAL 7035)	Hard PVC		2000	10	<b>3 842 518 367</b>
	Red (RAL 3020)	Hard PVC		2000	10	<b>3 842 518 368</b>
	Yellow (RAL 1023)	Hard PVC		2000	10	<b>3 842 518 369</b>
	Green (RAL 6032)	Hard PVC		2000	10	<b>3 842 549 888</b>
	Blue (RAL 5010)	Hard PVC		2000	10	<b>3 842 538 955</b>
	Orange (RAL 2004)	Hard PVC		2000	10	<b>3 842 538 957</b>
	Colorless, transparent	Hard PVC		2000	10	<b>3 842 191 182</b>



## Radial compensation



- ▶ For avoiding gaps and sharp edges on T-connections between two profiles using a central bolt or quick connector (note spacing of hole from the end of the profile)
- ▶ Slot segments can be broken out to support panel elements in the slot
- ▶ Important note: The load capacity of the profile connection is reduced when using radial compensation (see “Technical data”, page 18-1)!
- ▶ Tested for particulate emissions.  
Report No. BO2112-1289



Radial compensation	Slot	No.
<b>30x30</b>	8 10	<b>3 842 551 026</b>

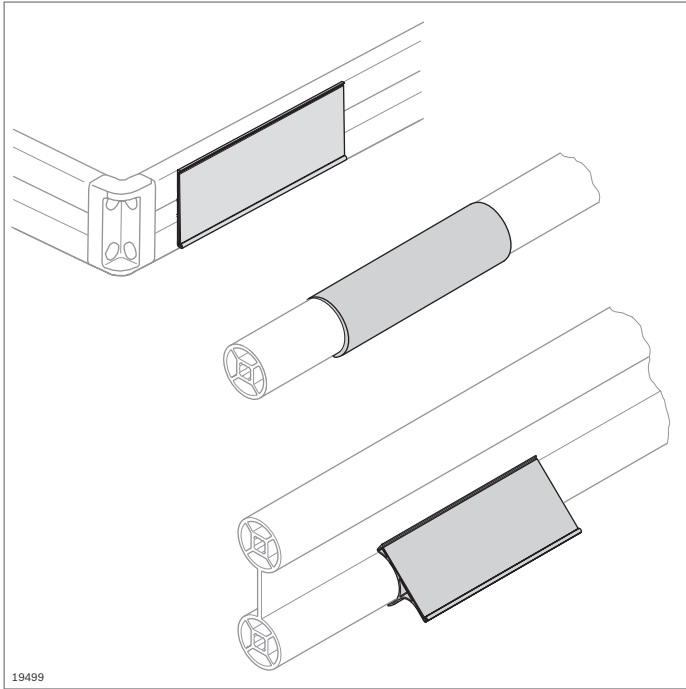
Material: PA; signal gray RAL 7004

Radial compensation	Slot	No.
<b>40x40</b>	10 10	<b>3 842 551 028</b>

Material: PA; signal gray RAL 7004

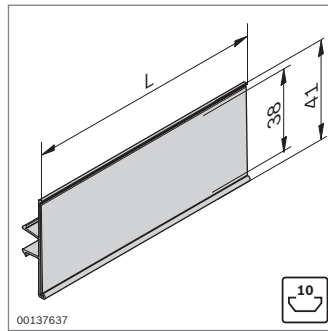
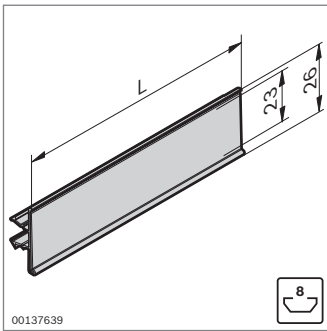
Radial compensation	Slot	No.
<b>45x45</b>	10 10	<b>3 842 551 030</b>

Material: PA; signal gray RAL 7004



## Labeling clips

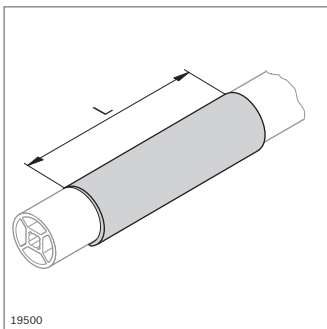
- For labeling profiles and tubular cross ties



- Labeling clip for strut profiles with 8 mm and 10 mm slot

Labeling clip	Slot	L (mm)	No.
	8	2000	20 <b>3 842 537 113</b>
	8	102	20 <b>3 842 537 650</b>
	10	2000	20 <b>3 842 537 116</b>
	10	102	20 <b>3 842 537 651</b>

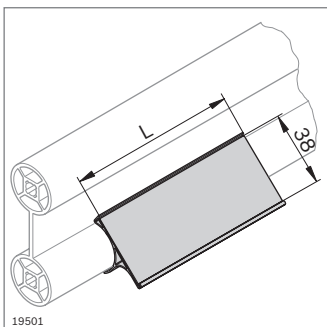
Material: Hard PVC; light gray (RAL 7035), transparent



- Self-adhesive
- Labeling clip with rounded text surface for strut profiles D28; D28L; D28L; N10 and D28x55
- Label height 38 mm

Labeling clip	L (mm)	No.
For tubular cross ties	2000	20 <b>3 842 535 136</b>
	102	20 <b>3 842 538 093</b>

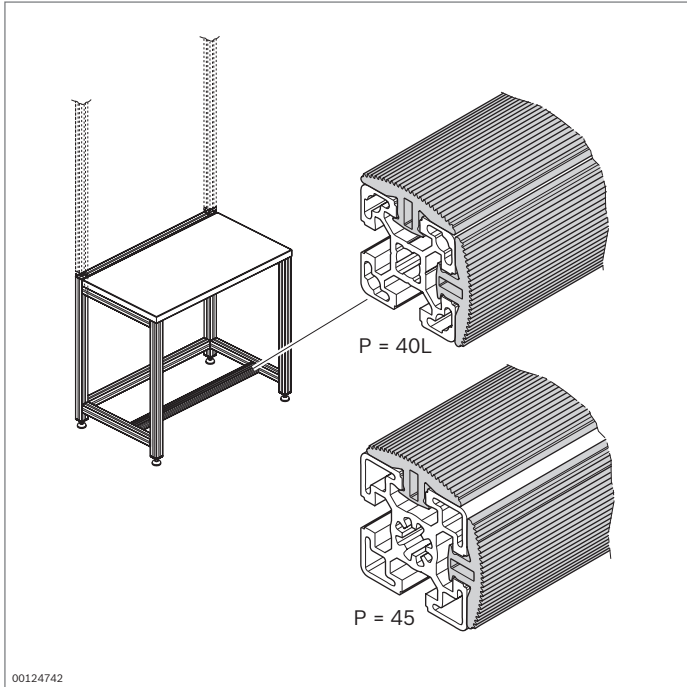
Material: Hard PVC; colorless, transparent



- Self-adhesive
- Labeling clip with flat text surface for strut profiles D28; D28L; D28L, N10, and D28x55

Labeling clip	L (mm)	No.
For tubular cross ties	2000	20 <b>3 842 537 119</b>
	102	20 <b>3 842 537 652</b>

Material: Hard PVC; light gray (RAL 7035), transparent



## Rubber profile Cloth holder

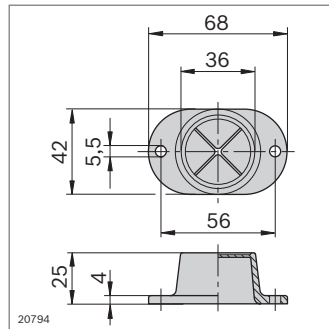
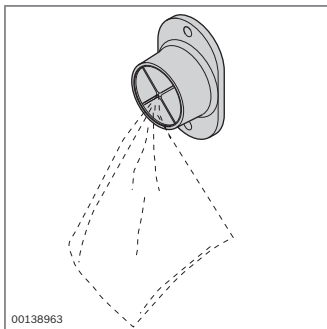


### Rubber profile

- ▶ To avoid impact on hard edges, such as when setting down impact-sensitive products
- ▶ For use as footrest to clip in from top and front on the cross strut of the workstation
- ▶ Really simple and inexpensive
- ▶ Suitable for the construction of ESD workstations

Rubber profile	L (mm)	ESD	No.
	30 ... 30000		1 <b>3 842 994 979 / L</b>
	30000		1 <b>3 842 562 090</b>

Material: EPDM; conduction resistance  $R = 10^4 \dots 10^9 \Omega$



### Screwed-on cloth holder

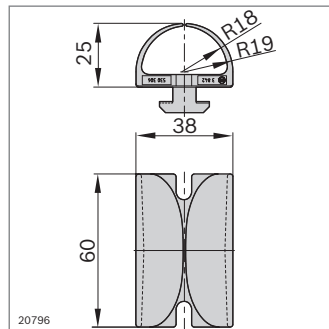
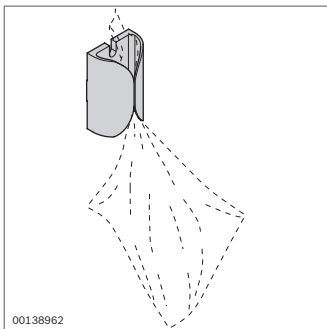
- ▶ For hanging cleaning cloths

Required accessories:

- ▶ T-nut, 10 mm slot, M5 (**3 842 530 283**) (p. 2-103)
- ▶ Screw DIN 7984 M5x12

Screwed-on cloth holder	No.
	<b>1 845 719 000</b>

Material: PE; black



### Cloth holder with clamp base

- ▶ With injection molded clamp base for direct assembly on strut profile with 10 mm slot
- ▶ Can also be used as a cable guide

Cloth holder with clamp base	No.
	<b>3 842 530 306</b>

Material: PA6; black





The function-integrated profiles (FIP) from Rexroth offer plenty of usable interior space, giving you more freedom for your design ideas: The completely internal cable guide allows for the safe and space-saving laying of cables, data lines and hoses – and thanks to the profile joints, they can even be laid through profile connectors.

#### **Few parts, high variability – build a safe frame more quickly**

The result is a solid machine frame that is based on only four profile cross-sections and offers a high degree of flexibility: Thanks to a 10 mm slot, all elements from the Rexroth modular profile system can be easily mounted, cavities simply separated with dividing strips and cables laid separately. The aluminum covers on the profile have a hinge function, ensuring ease of installation and maintenance. Screw holes for mounting covers and attachments parts provide safety and stability.

The unique profile joint not only withstands high transmission forces, but also allows for completely internal wiring. This way, the installation remains invisible until it is led out of the profile at the place of use. The function-integrated profiles are compatible with the standard profiles, meaning you can combine profiles and of course use various accessories.

## Function-integrated profiles



- ▶ Completely integrated wiring in the frame construction
- ▶ Unique profile joints with internal cable guide
- ▶ High flexibility with low component diversity (only 4 profile cross-sections)
- ▶ Appealing design: closed outer surfaces, accentuated plastic parts
- ▶ Minimal assembly
- ▶ Saves time and money: easy design, installation and maintenance

## Technical data

- ▶ Modular dimension 40
- ▶ Profile slot 10 mm
- ▶ Profile cross-sections 40x120x120, 120x120, 60x120, 120x120 6N
- ▶ Usable interior space from 600 mm<sup>2</sup> to 4000 mm<sup>2</sup>
- ▶ Compatible with aluminum profile modules from Rexroth
- ▶ VDE certified
- ▶ Suitable for EPA

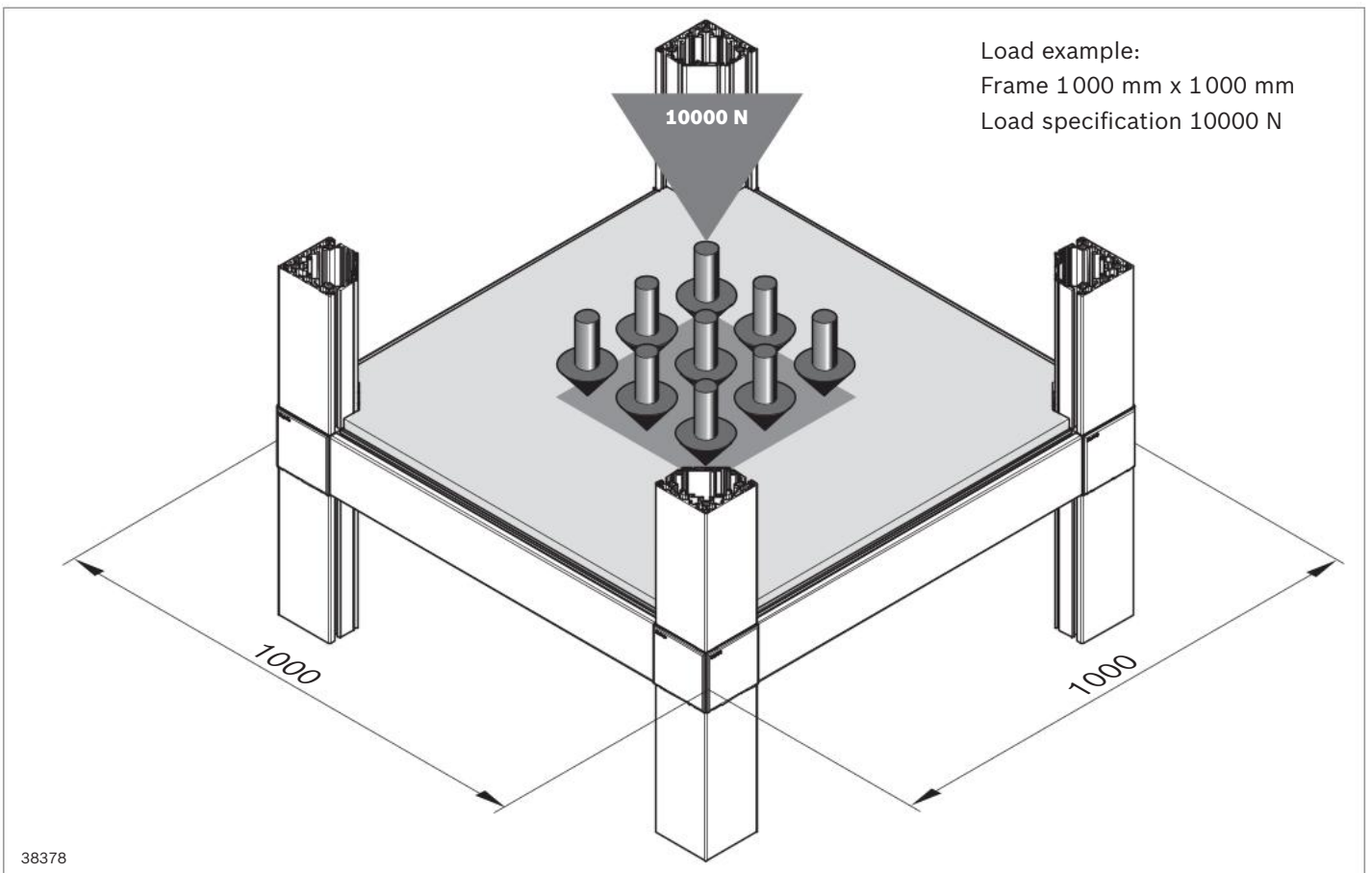


### Stability and load capacity

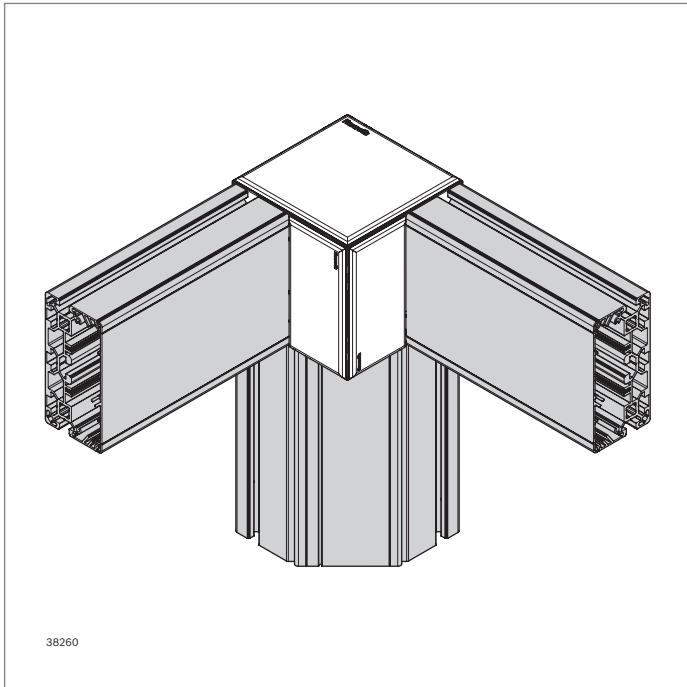
The range of function-integrated profiles is designed for high loads. The profiles in the 40 mm profile dimension include the sturdy 10 mm Rexroth slot and allow strong M12/S12 screws to be screwed into the central hole.

The central connection element in the system is the profile joints 1/2 and 3/4. The connection elements are made of solid diecast aluminum. The screw connection in the central hole of the profiles creates a high-strength connection as the basis for a resilient machine frame.

The base plates are designed for the use of M16 spindles, which can take up to 30000 N.



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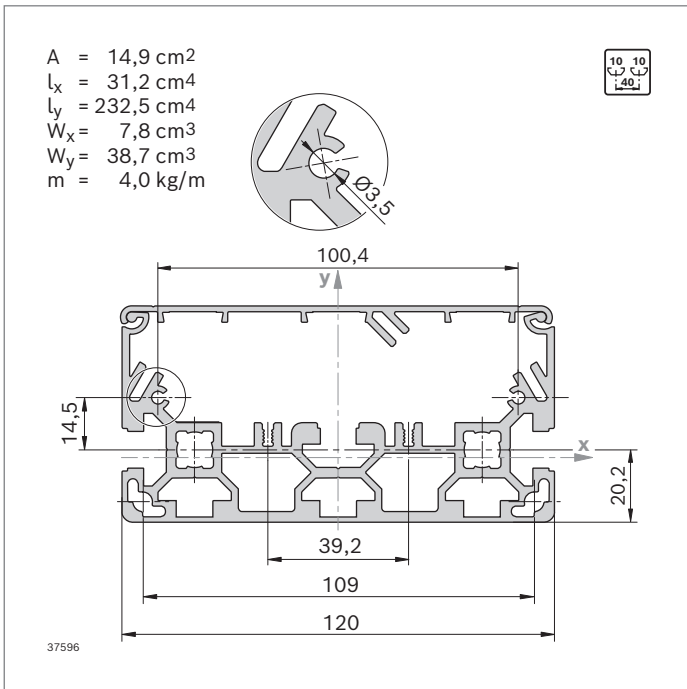
## Cable guide profiles



- ▶ Construction profiles with usable interior space for guiding cables and hoses
- ▶ 2 parts (profile and cover)
- ▶ Cover with hinge function on both sides
- ▶ Concealed 10 mm slot for mounting socket strips or installation elements
- ▶ Screw holes for mounting cover plates
- ▶ Closed exterior
- ▶ Mount for dividing strips and grounding cables
- ▶ Mount for potential equalizer

Accessories, optional:

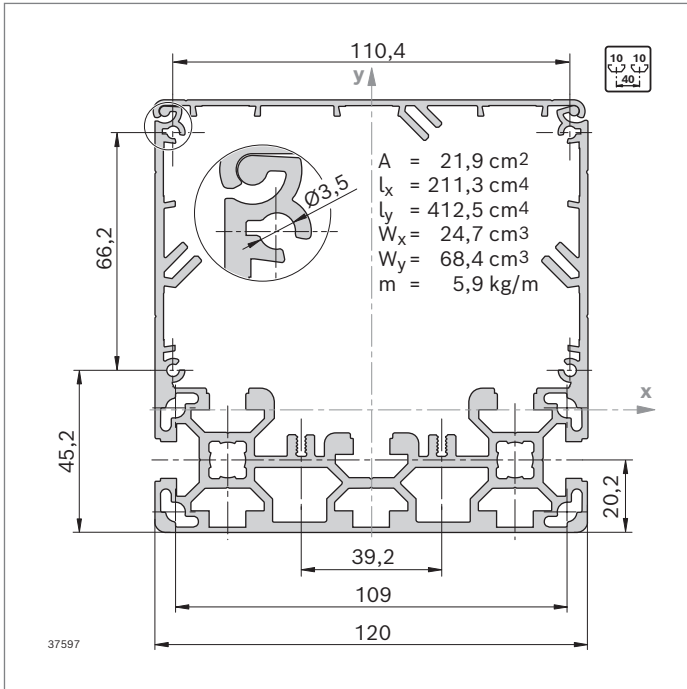
- ▶ Self-tapping screw (**3 842 552 267**) to secure the cover
- ▶ Potential equalizer line (**3 842 552 234**, p. 2-117)



60x120		L (mm)	No.
1 pc		100 ... 6070	<b>3 842 996 361</b>
1 pc M12		100 ... 6000	<b>3 842 996 364</b>
1 pc M12		110 ... 6000	<b>3 842 996 365</b>
10 pcs		6070	<b>3 842 558 242</b>

Profile finishing: M12: in all core holes

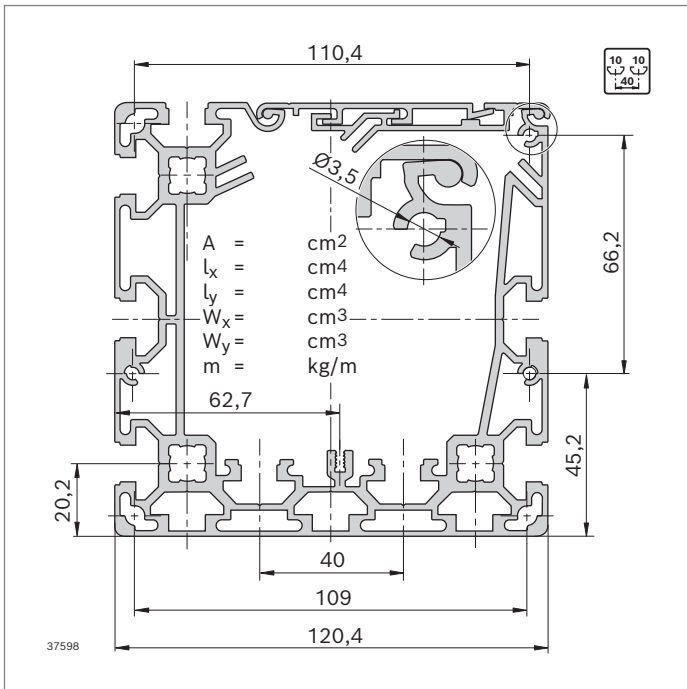
Usable interior space: 600 mm<sup>2</sup>



Usable interior space: 4000 mm<sup>2</sup>

120x120		L (mm)	No.
1 pc		100 ... 6070	<b>3 842 996 360</b>
1 pc	M12	100 ... 6000	<b>3 842 996 366</b>
1 pc	M12  M12	110 ... 6000	<b>3 842 996 367</b>
4 pcs		6070	<b>3 842 558 241</b>

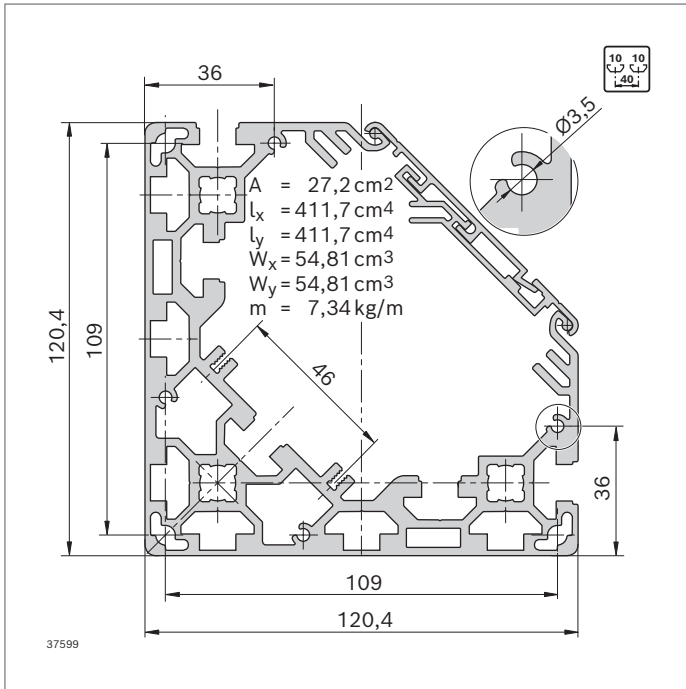
Profile finishing: M12: in all core holes








Usable interior space: 4600 mm<sup>2</sup>

120x120 6N		L (mm)	No.
1 pc		100 ... 6070	<b>3 842 994 039</b>
1 pc	M12	100 ... 6000	<b>3 842 994 054</b>
1 pc	M12  M12	110 ... 6000	<b>3 842 994 059</b>
4 pcs		6070	<b>3 842 558 190</b>

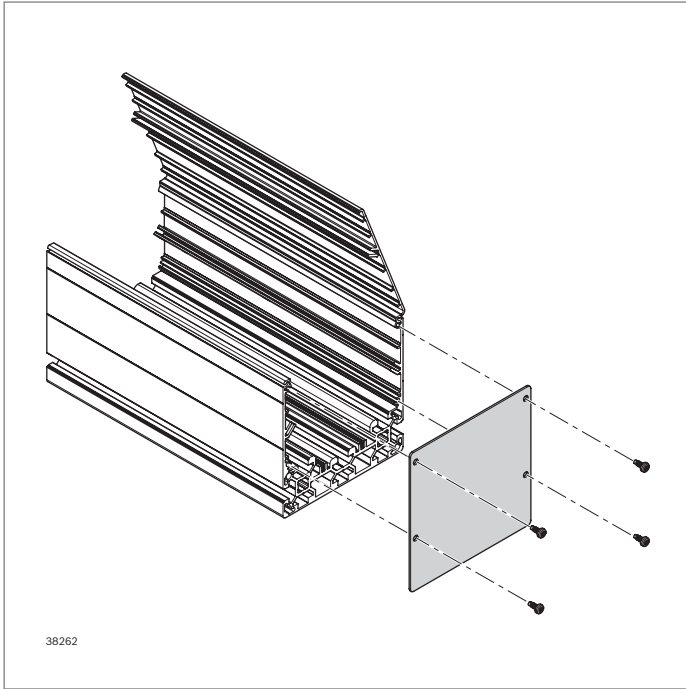
Profile finishing: M12: in all core holes



Usable interior space: 3200 mm<sup>2</sup>

40x120x120		L (mm)	No.
1 pc		100 ... 6070	<b>3 842 996 362</b>
1 pc	M12 	100 ... 6000	<b>3 842 996 368</b>
1 pc	M12  M12	110 ... 6000	<b>3 842 996 369</b>
 4 pcs		6070	<b>3 842 558 243</b>

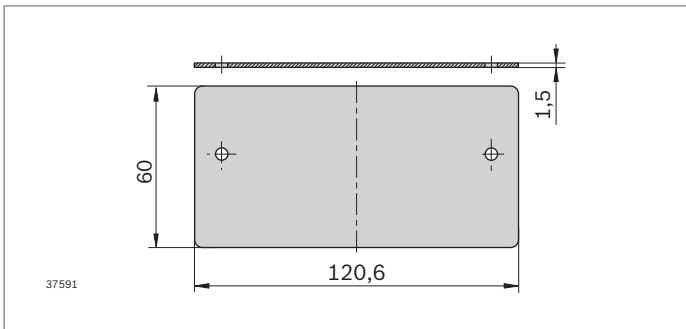
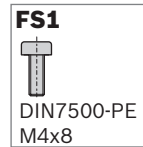
Profile finishing: M12: in all core holes



### Cover plate



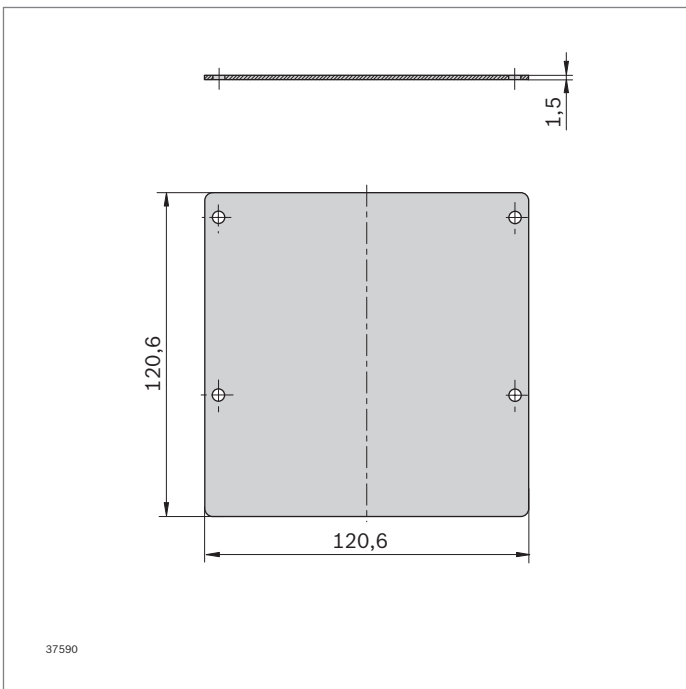
- ▶ Closes cable guide profiles at the front
- ▶ Surface anodized
- ▶ Fastened securely with screws



- ▶ For cable guide profile 60x120

Cover plate	ESD	No.	FS
60x120		10 3 842 558 233	2x FS1

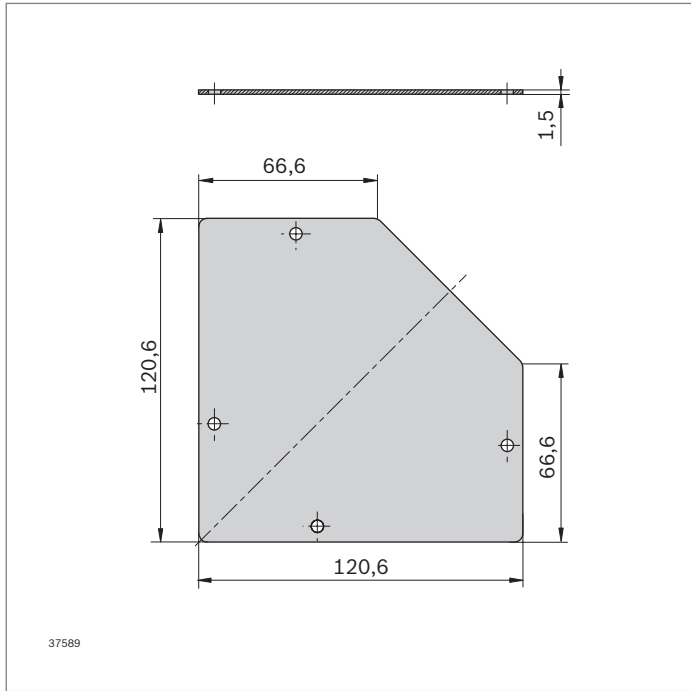
Material: Cover plate: Aluminum sheet, anodized  
Fastening material: Steel; zinc-plated  
Scope of delivery: Incl. fastening material (FS)



- ▶ For cable guide profile 120x120 6N (3 screw holes can be used for mounting) and 120x120

Cover plate	ESD	No.	FS
120x120		10 3 842 558 229	4x FS1

Material: Cover plate: Aluminum sheet, anodized  
Fastening material: Steel; zinc-plated  
Scope of delivery: Incl. fastening material (FS)



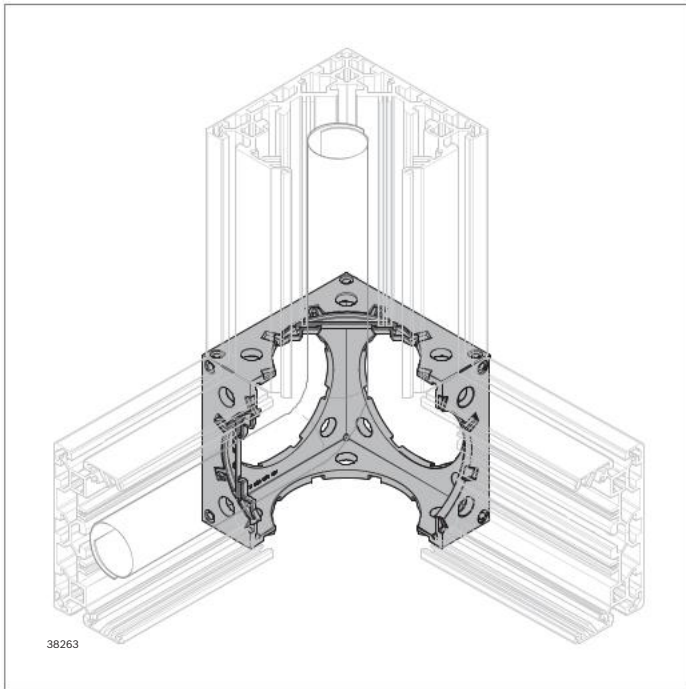
► For cable guide profile 40x120x120

Cover plate	ESD	No.	FS
40x120x120	10	3 842 558 228	4x FS1

Material: Cover plate: Aluminum sheet, anodized

Fastening material: Steel; zinc-plated

Scope of delivery: Incl. fastening material (FS)



## Profile joints 3/4 and 1/2 Positioning pin Edge protector



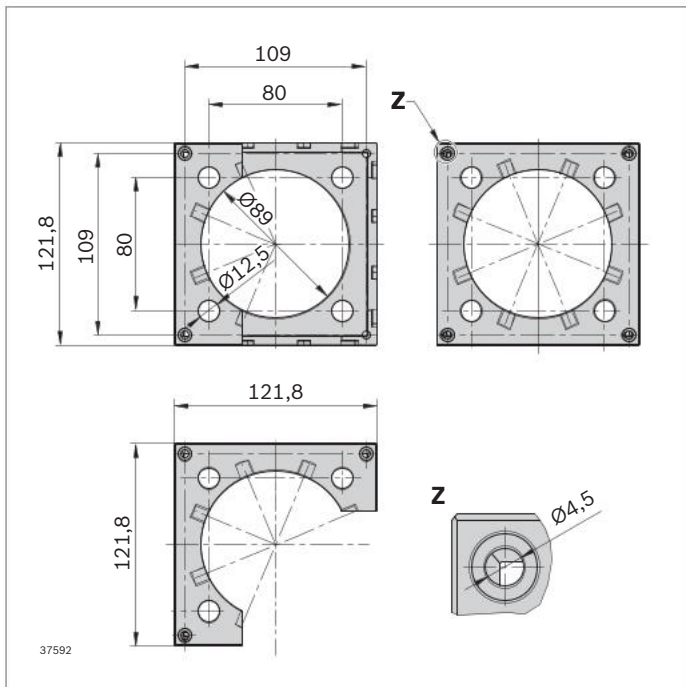
- ▶ For connecting cable guide profiles or standard profiles 40x120 or 40x120 5N
- ▶ High strength and stability
- ▶ Implementation of protected cable branches
- ▶ Screw connection with central bolt M12 (recommended) or S12

### Required accessories:

- ▶ Positioning pin to facilitate assembly
- ▶ Central bolt M12x30-T50 (**3 842 530 235**)/ S12x30-T50 (**3 842 530 236**) for fastening the profile joints (see MGE catalog, page 3-41)

### Accessories, optional:

- ▶ Edge protector to cover sharp edges
- ▶ Cover cap for closing openings



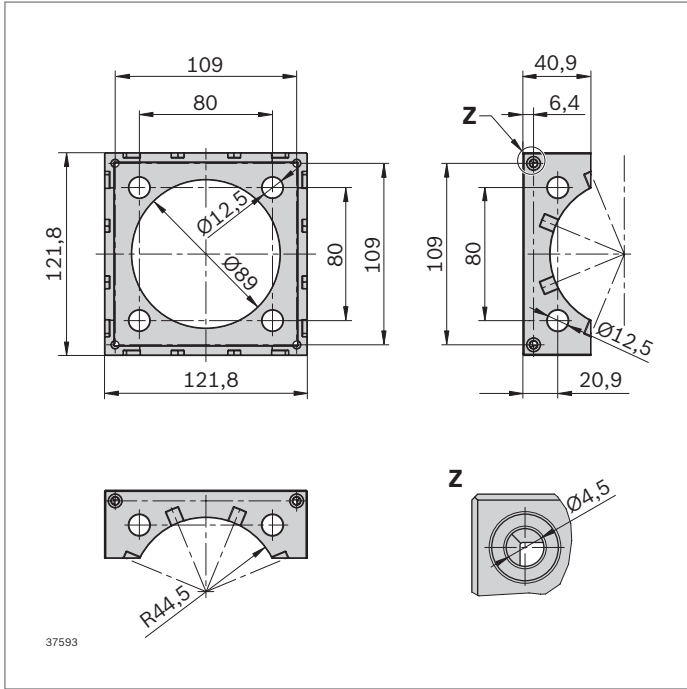
Profile joint 3/4	ESD*) No.
120x120-3/4	1  <b>3 842 558 501</b>

Material: Diecast aluminum; coated, signal gray RAL 7004

\*) ESD: A conductive connection between the profiles is established via the fastening screws. However, the surface of the profile joints is not ESD-conductive.

### Accessories, optional:

- ▶ Connection bracket for covering sharp edges and for fastening cover caps
- ▶ Cover caps

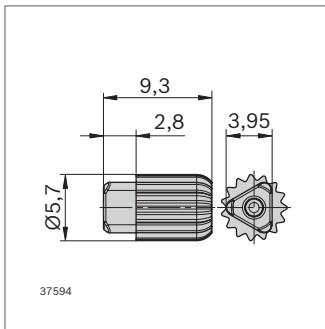


Profile joint 1/2		No.
<b>120x120-1/2</b>	1	<b>3 842 558 246</b>

Material: Diecast aluminum; coated, signal gray RAL 7004

Accessories, optional:

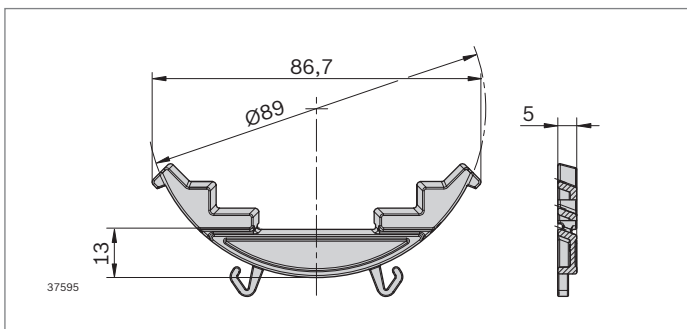
- ▶ Spacer for fixing cover caps
- ▶ Cover caps



- ▶ Positioning aid to facilitate assembly
- ▶ Use for the combinations of profile joint/profile, profile joint/base plate, base plate/profile

Positioning pin		No.
<b>D=5.7</b>	20	<b>3 842 558 487</b>

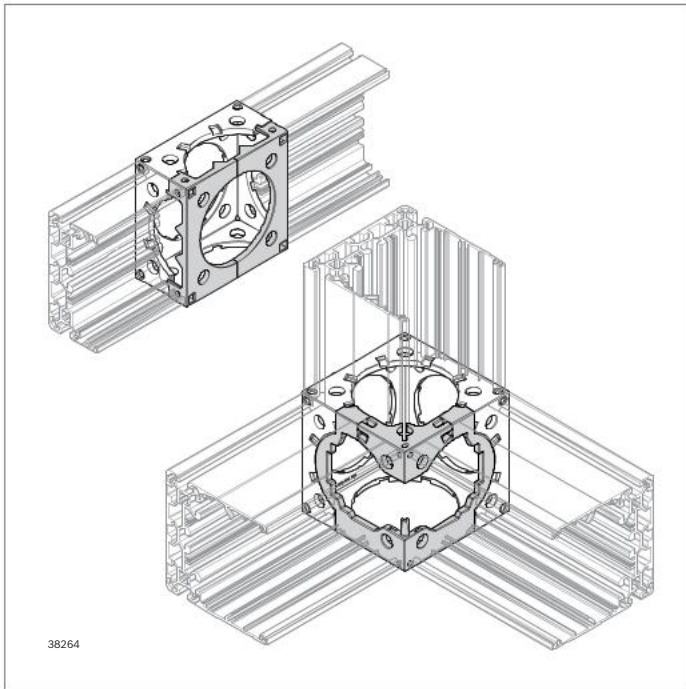
Material: PP; signal gray RAL 7004



- ▶ Optimum protection for cables with sharp-edged transition between profile joint and cable guide profile
- ▶ Can be retrofitted
- ▶ Fastening via snap lock

Edge protector	Color	ESD	No.
<b>120x120</b>	Signal gray	10	<b>3 842 558 485</b>
<b>120x120</b>	Black	10	<b>3 842 558 249</b>

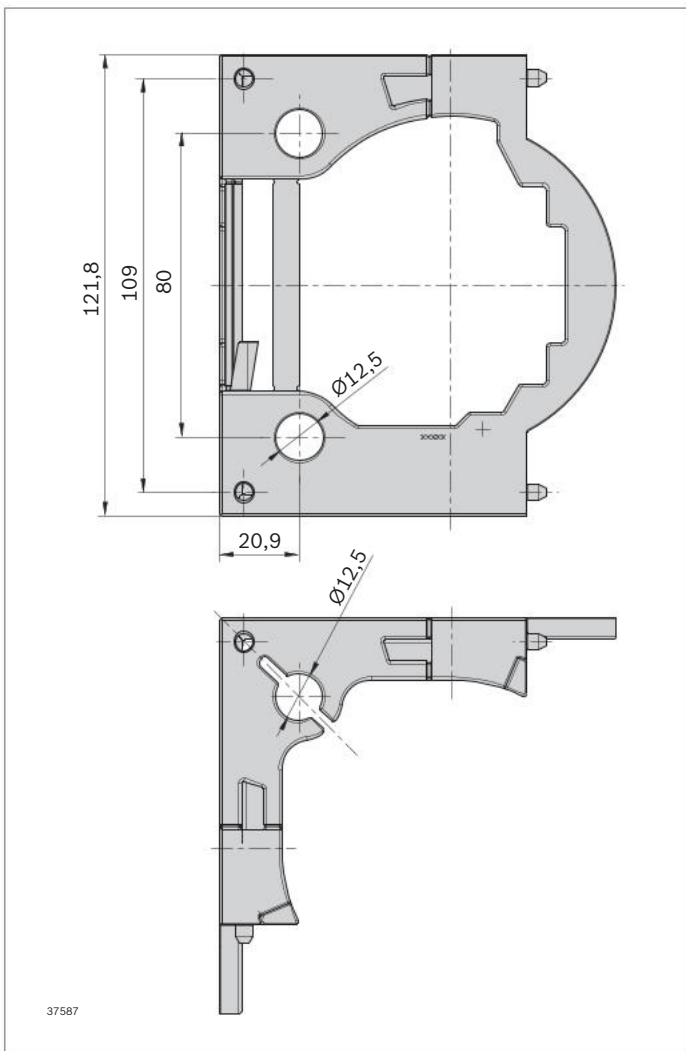
Material: PP



## Connection bracket Spacers

- ▶ Enables the mounting of cover caps on profile joints
- ▶ Edge protector for safe cable routing

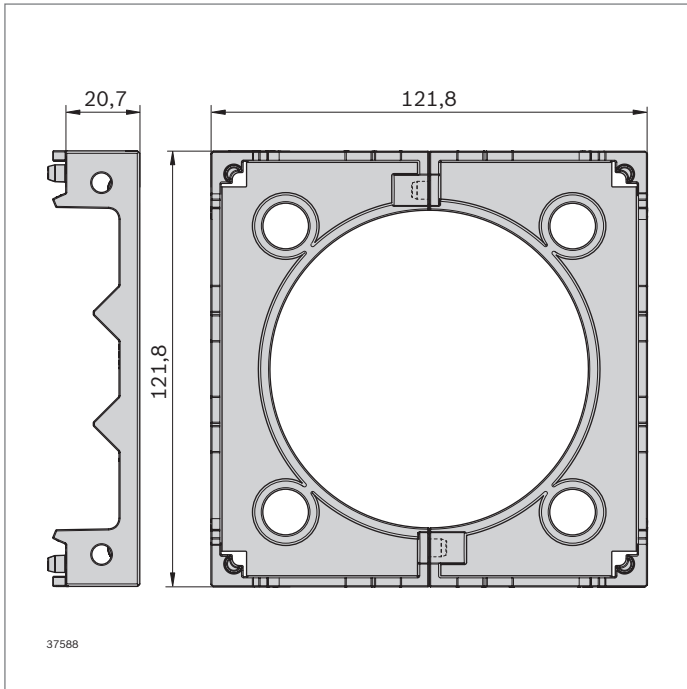
2



## Connection bracket

- ▶ Closes profile joint 3/4 via residual function for safe cable laying
- ▶ Edge protector included

Connection bracket	No.
CGP 120x120	2 3 842 558 473
Material:	PP; signal gray RAL 7004

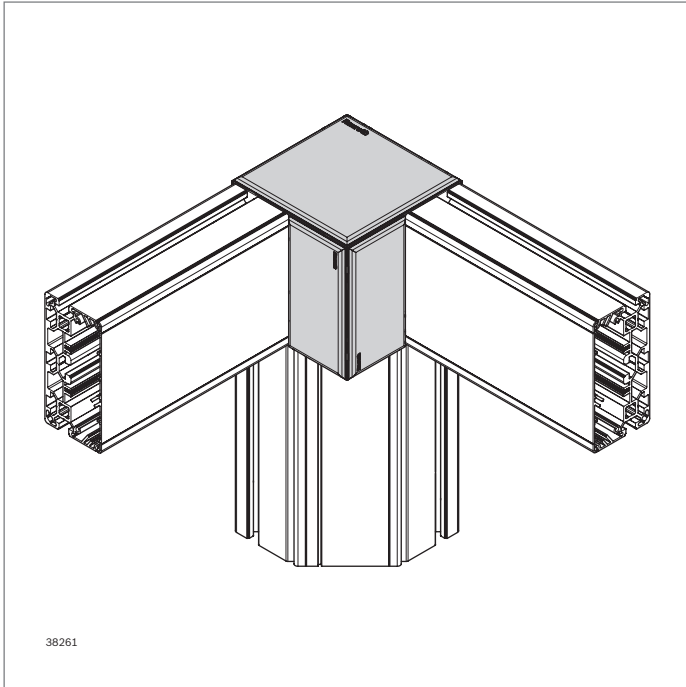


### Spacers

- ▶ Running cables at a profile joint 1/2
- ▶ 2 parts for easy assembly

Spacers		No.
20x120	5	3 842 558 502

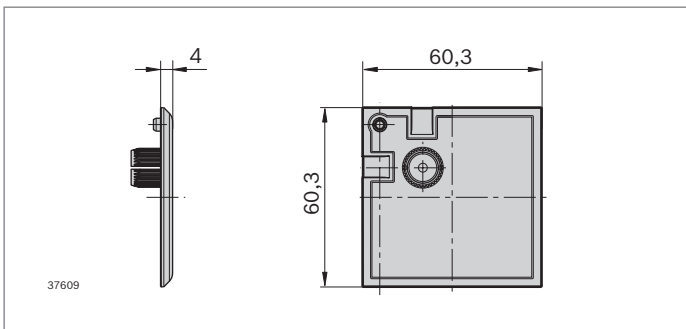
Material: PP; signal gray RAL 7004



### Cover caps



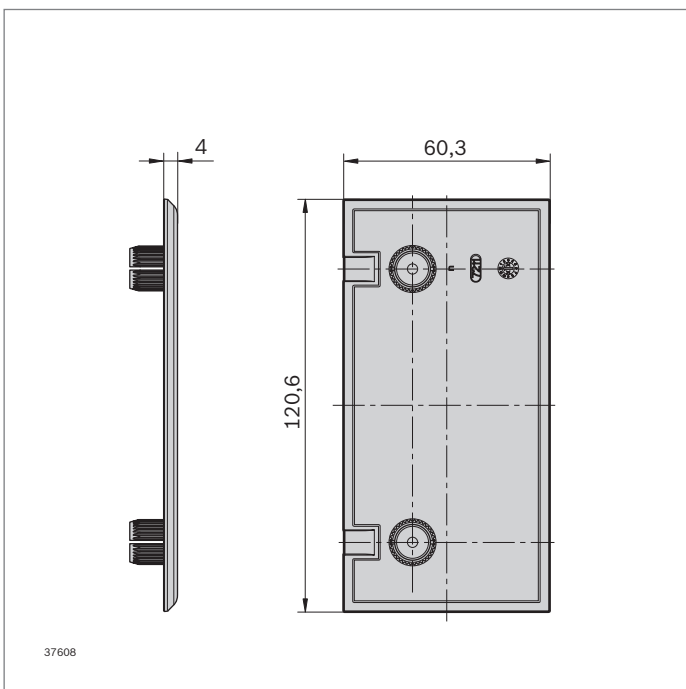
- For closing the profile joints and profile butt joints in various application combinations



- For profile joint 3/4 and cable guide profile 60x120 without connection bracket

Cover cap	Color	ESD	No.
60x60	Signal gray	10	3 842 558 474
60x60	Black	10	3 842 558 494

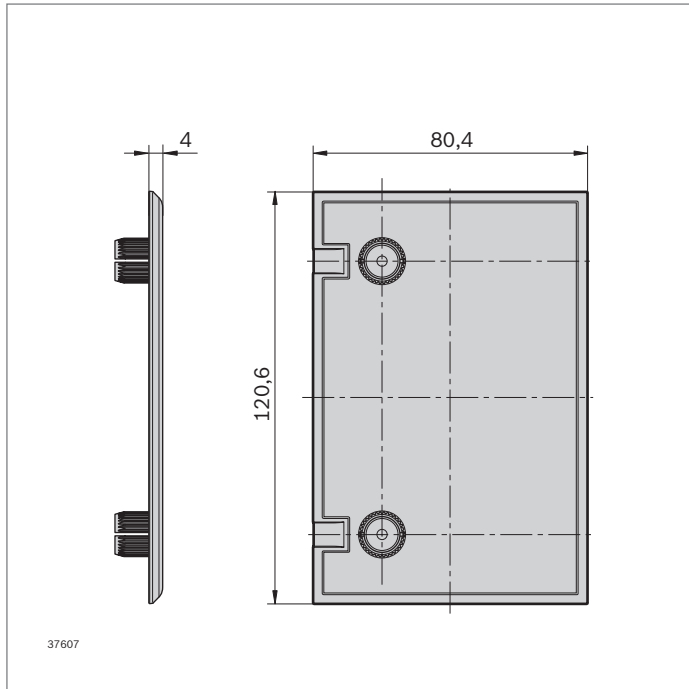
Material: PP



- For profile joint 3/4 or 1/2 in conjunction with cable guide profile 60x120 or base plate 60x120

Cover cap	Color	ESD	No.
60x120	Signal gray	10	3 842 558 475
60x120	Black	10	3 842 558 495

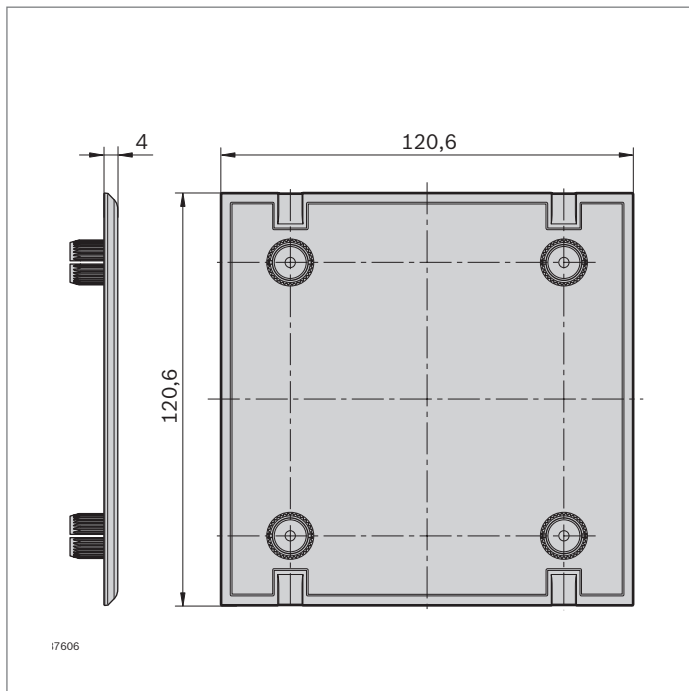
Material: PP



- For profile joint 3/4 or 1/2 in conjunction with strut profile 40x120

Cover cap	Color	ESD		No.
<b>80x120</b>	Signal gray	10		<b>3 842 558 476</b>
<b>80x120</b>	Black		10	<b>3 842 558 496</b>

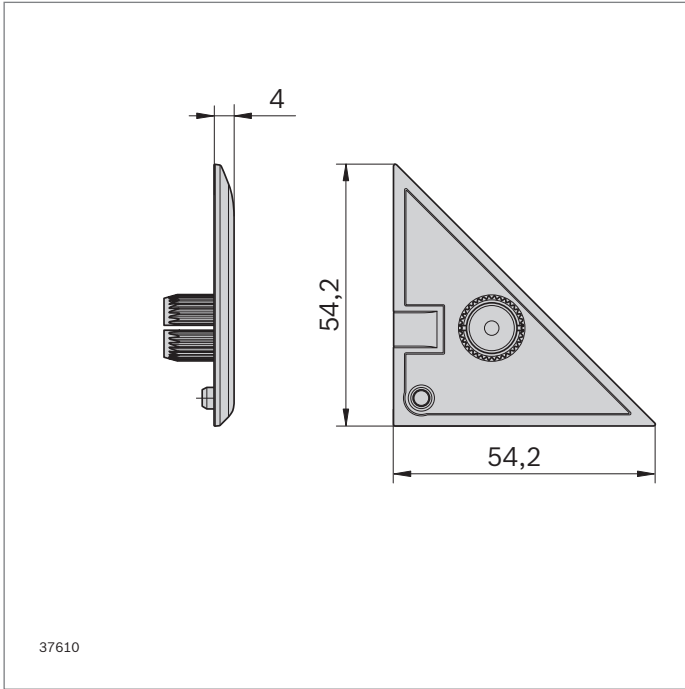
Material: PP



- For profile joints 3/4 and 1/2

Cover cap	Color	ESD		No.
<b>120x120</b>	Signal gray	10		<b>3 842 558 477</b>
<b>120x120</b>	Black		10	<b>3 842 558 497</b>

Material: PP

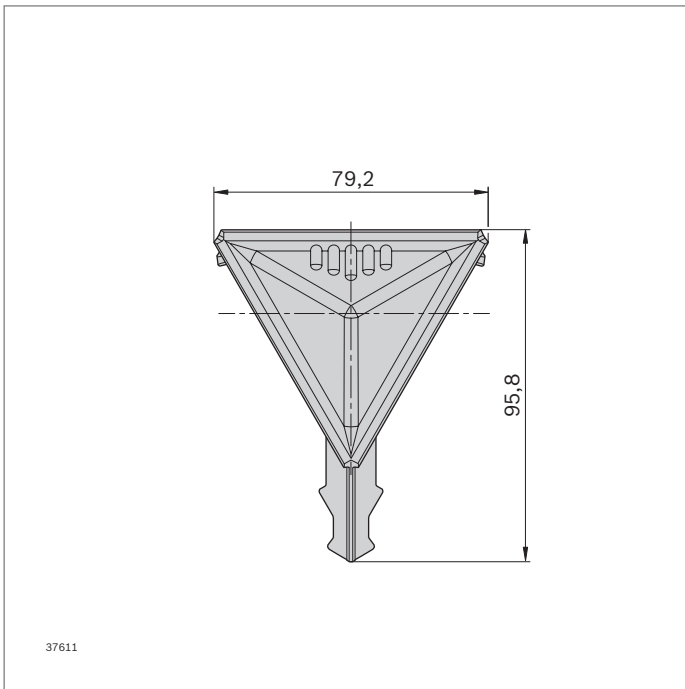


- For connecting corner profile 40x120x120 and profile joint or base plate 40x120x120

Cover cap	Color	ESD	No.
80 Triangle	Signal gray	10	3 842 558 479
80 Triangle	Black	10	3 842 558 499

Material: PP

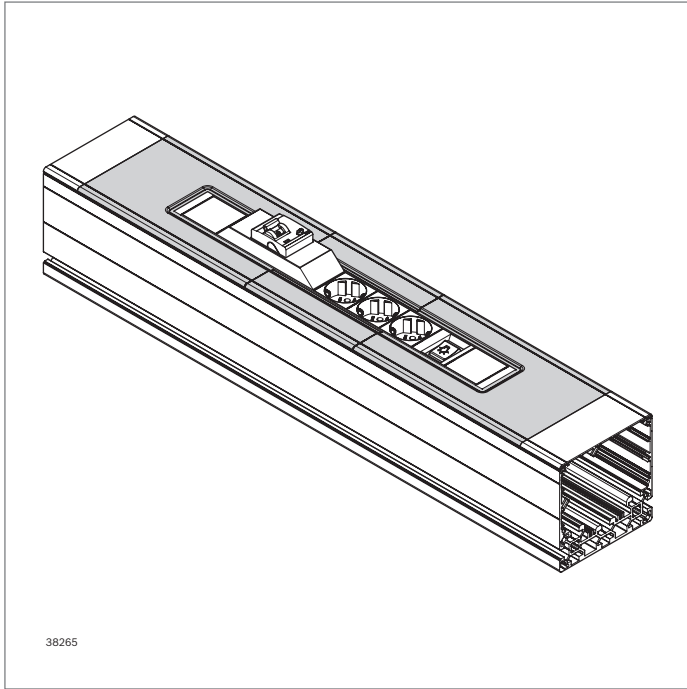
2



- For butt joints of 3x corner profile 40x120x120

Cover cap	Color	ESD	No.
80x80x80	Signal gray	10	3 842 558 478
80x80x80	Black	10	3 842 558 498

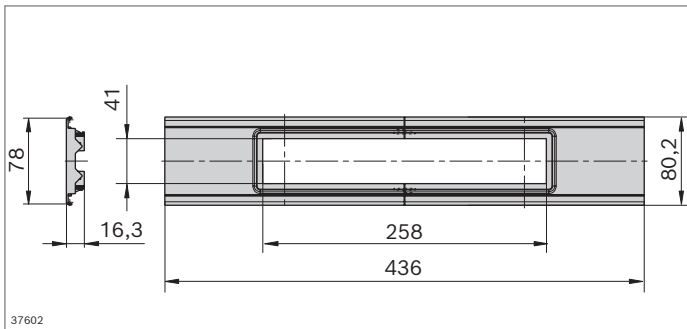
Material: PP



## Cover Cover rail



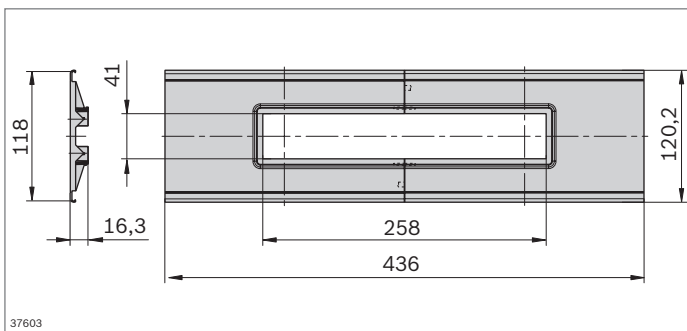
- ▶ Closes the opening gap of installed socket strips in cable guide profiles
- ▶ For socket strips with 263 mm or 404 mm length (with extension)
- ▶ Compatible with socket strips from the MPS range (see the Manual Production Systems catalog)
- ▶ Socket covers can be extended with the cover rails



- ▶ For installation in cable guide profiles 40x120x120 and 120x120 6N

Cover	Color	ESD	No.
80	Signal gray	10	3 842 558 507
80	Black	10	3 842 558 506

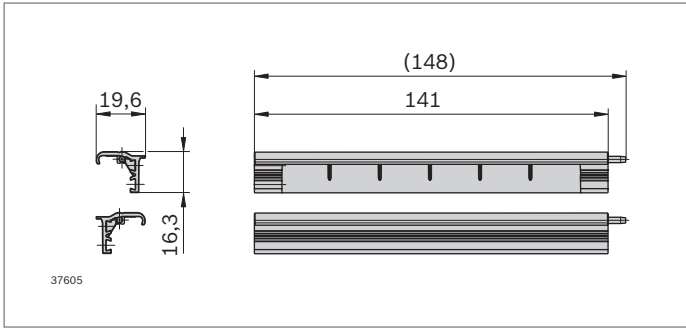
Material: PP



- ▶ For installation in cable routing profiles 60x120 and 120x120

Cover	Color	ESD	No.
120	Signal gray	10	3 842 558 509
120	Black	10	3 842 558 508

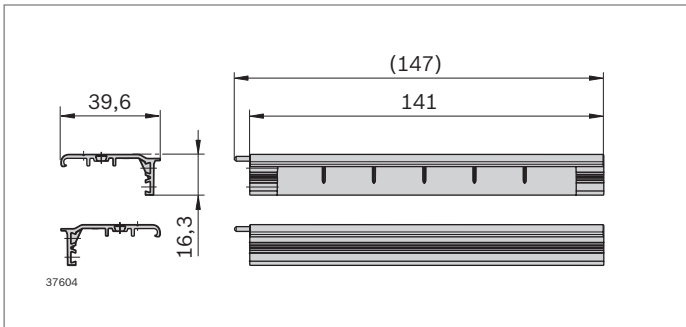
Material: PP



- ▶ For installation in cable guide profiles 40x120x120 and 120x120 6N
- ▶ Cover rail consists of 2 half shells

Cover rail	Color	ESD	No.
80	Signal gray	10	3 842 558 511
80	Black	10	3 842 558 510

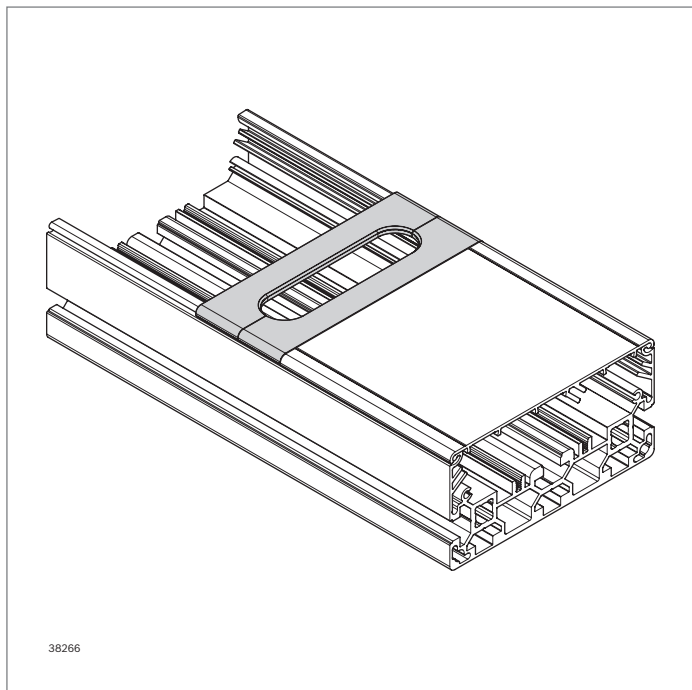
Material: PP



- ▶ For installation in cable routing profiles 60x120 and 120x120
- ▶ Cover rail consists of 2 half shells

Cover rail	Color	ESD	No.
120	Signal gray	10	3 842 558 513
120	Black	10	3 842 558 512

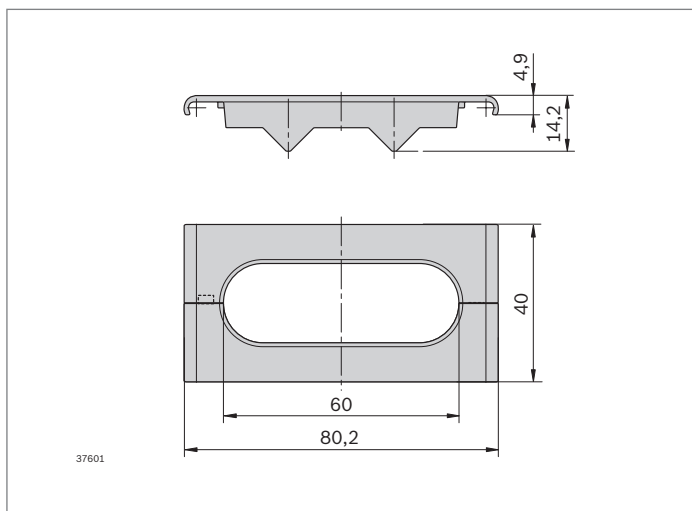
Material: PP



### Cable hole



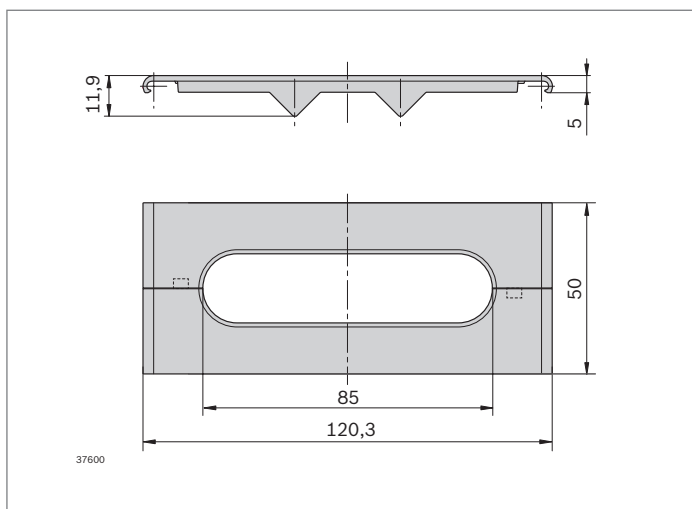
- For passing cables through the cover of a cable guide profile



- For installation in cable guide profiles 40x120x120 and 120x120 6N

Cable hole	Color	ESD	No.
80	Signal gray	10	3 842 558 212
80	Black	10	3 842 558 503

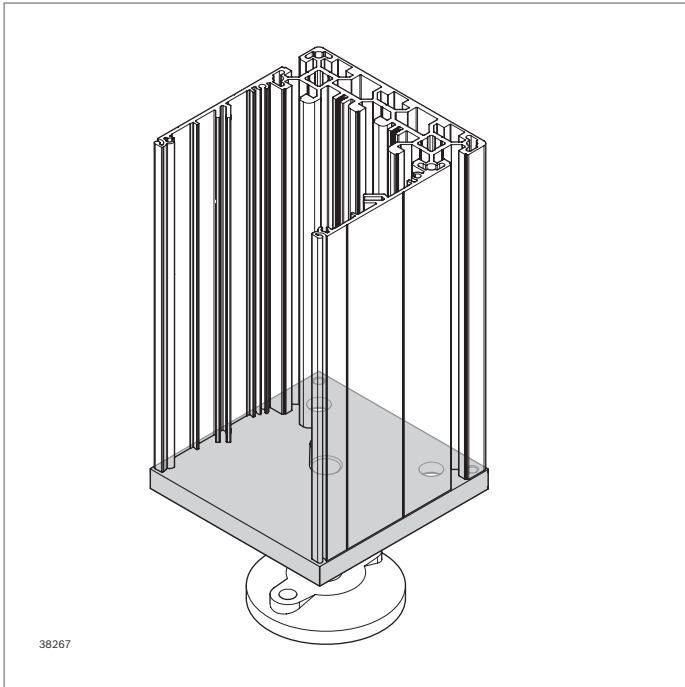
Material: PP



- For installation in cable routing profiles 60x120 and 120x120

Cable hole	Color	ESD	No.
120	Signal gray	10	3 842 558 505
120	Black	10	3 842 558 250

Material: PP



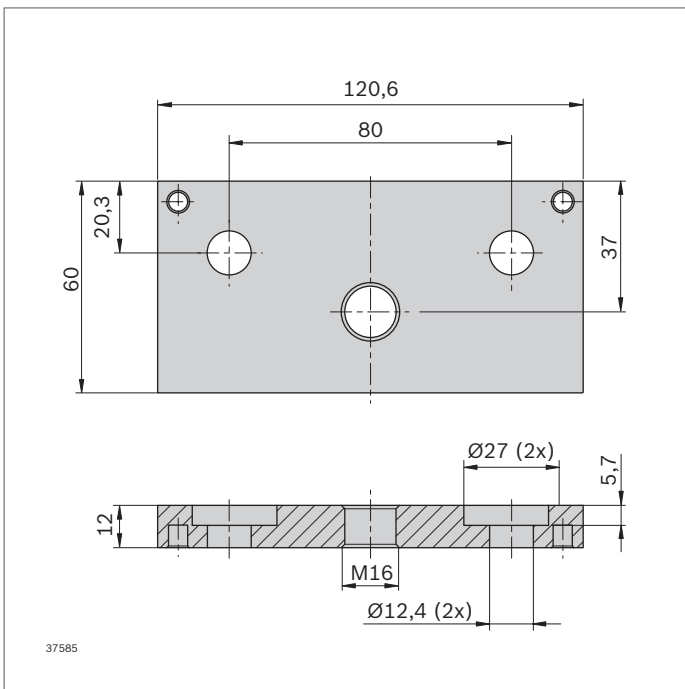
## Base plate




- ▶ Screw-on plate for supports or castor wheels
- ▶ Suitable for mounting on profile joints or cable guide profile

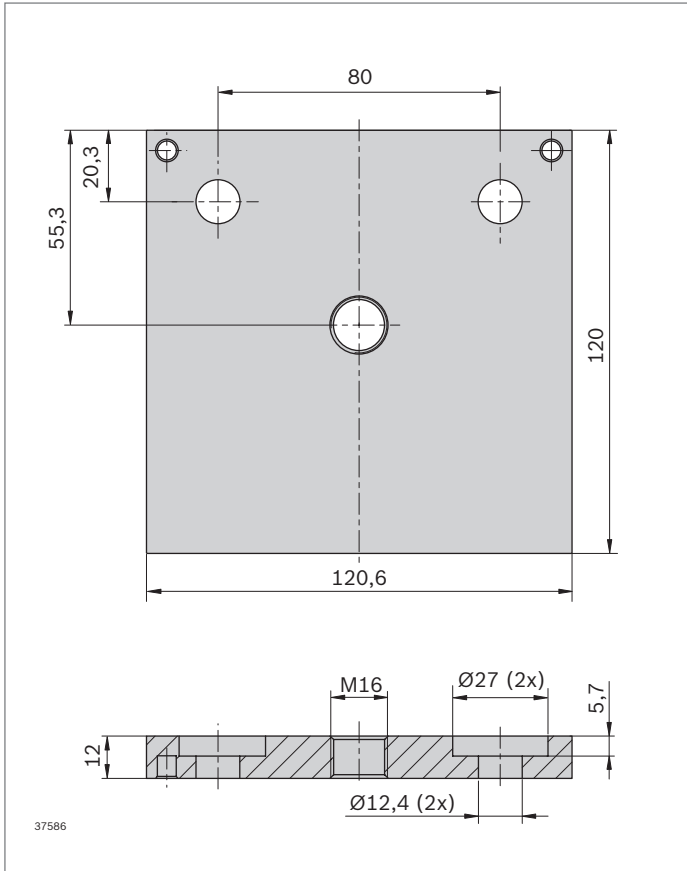
### Required accessories:

- ▶ Central bolt M12x30 or S12x30 (for fastening in the central hole)
- ▶ Central bolt M12x30, hexagon nut ISO 4035 M12 (for fastening at profile joint)
- ▶ Positioning pin (**3 842 558 487**, p. 2-106) to facilitate installation

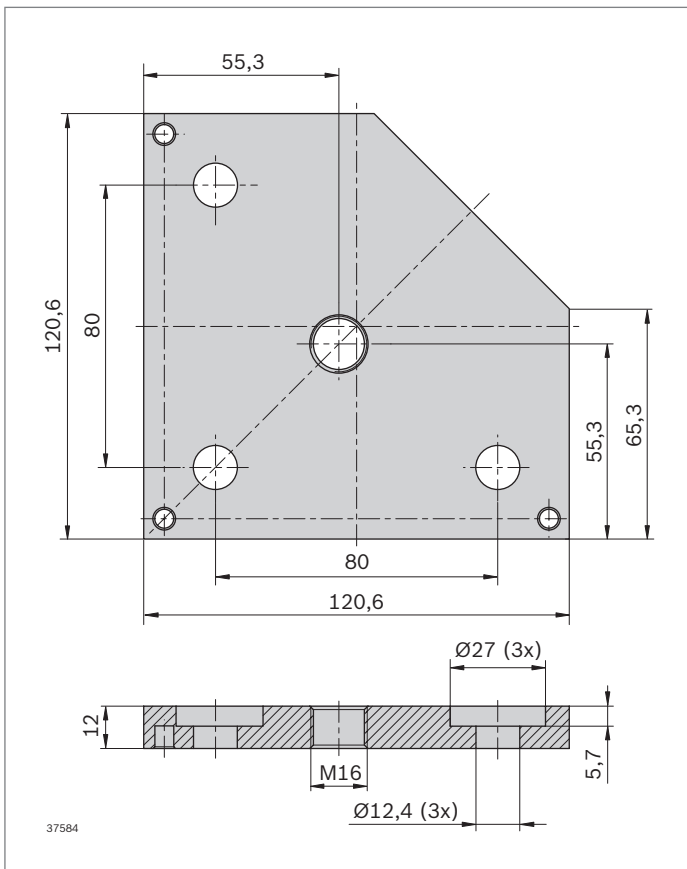


Base plate	ESD No.
60x120	 3 842 558 218

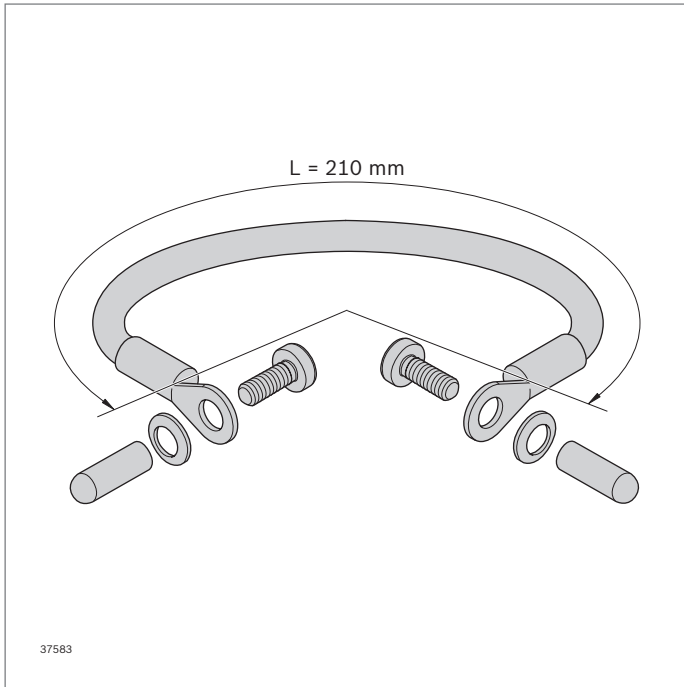
Material: Steel; zinc-plated



Base plate	ESD No.
120x120	3 842 558 220
Material:	Steel; zinc-plated



Base plate	ESD No.
40x120x120	3 842 558 226
Material:	Steel; zinc-plated



## Potential equalizer line

- For proper grounding of the cable guide profiles

Potential equalizer line	No.
	<b>3 842 552 234</b>

Material: Cable: plastic-coated  
Fastening material: Steel; zinc-plated

2

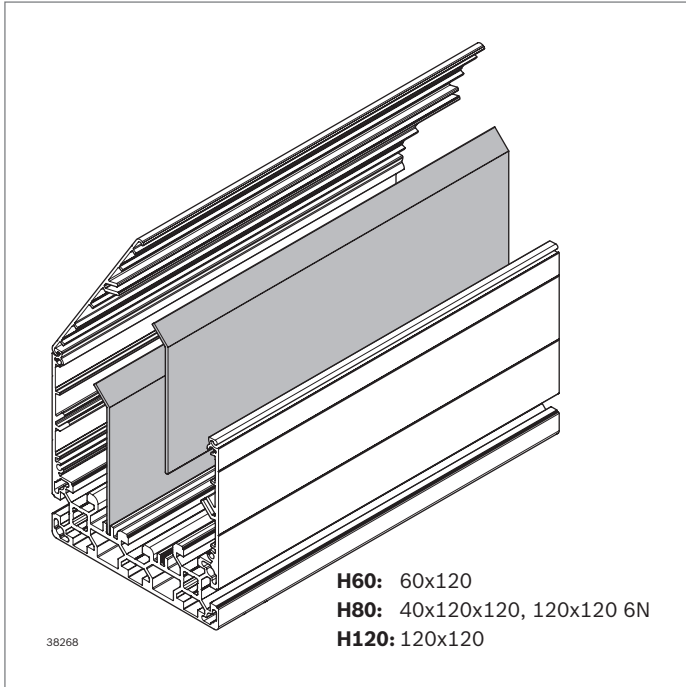


## Protective hose

- Cable protection conduit with Velcro fastener
- Bundle diameter up to max. 38 mm

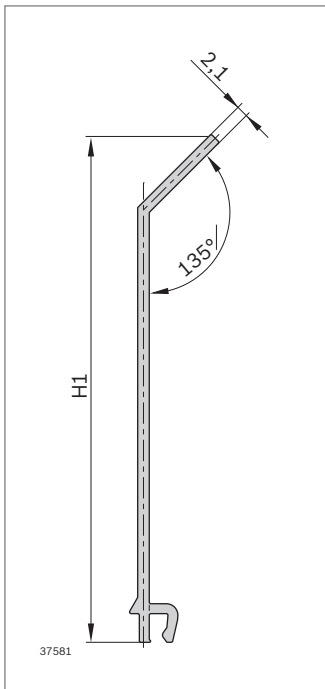
Protective hose	L (mm)	No.
	3000	<b>3 842 558 248</b>


Material: PET; black



## Dividing strip

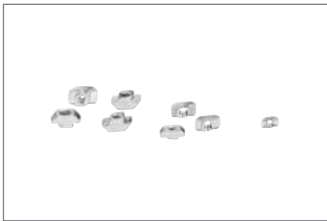
- ▶ Divides the cable guide profile into 2 or 3 chambers for routing different cable types (power/data cables etc.)
- ▶ Push-in installation
- ▶ The angled ends of the dividing strips keep the cables in the intended chamber even in a horizontal installation position



Dividing strip	H1 (mm)	L (mm)	 No.
<b>H60</b>	30	3000	10 <b>3 842 558 245</b>
<b>H80</b>	68	3000	10 <b>3 842 558 222</b>
<b>H120</b>	90	3000	10 <b>3 842 558 244</b>

Material: PVC; signal gray

# Connection elements



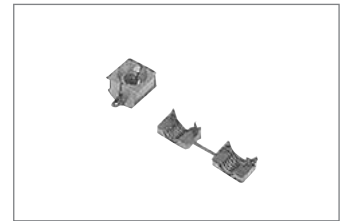
T-nut (p. 3-4)  
Collar screw (p. 3-5)



Flange nut,  
T-bolt (p. 3-6)



Sliding block (p. 3-7)



Expanding nut (p. 3-10)



Parallel connector (p. 3-11)



Tensioning connector  
(p. 3-13)



Slot connector (p. 3-14)



Inner bracket (p. 3-15)  
Inner bracket R (p. 3-16)



Miter bracket (p. 3-18)



Bracket (p. 3-19)



Bracket R (p. 3-31)



Steel bracket (p. 3-33)



Metal bracket, supporting  
bracket (p. 3-34)



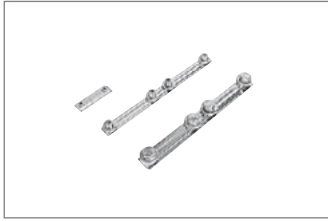
Foundation bracket  
(p. 3-36)



Holder (p. 3-37)



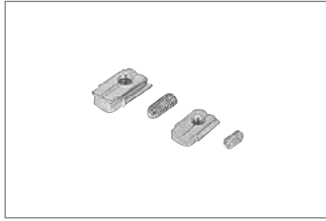
Supporting bracket  
(p. 3-39)



Profile connector (p. 3-41)



Central bolt (p. 3-43)



Anti-torsion element (p. 3-44)



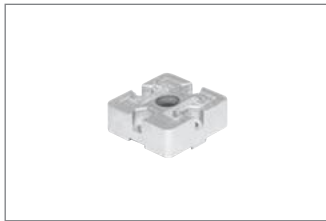
Cubic connector (p. 3-45)



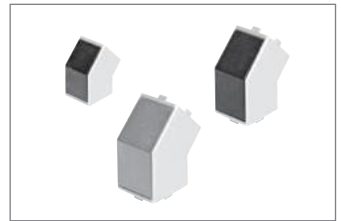
Corner bracket (p. 3-49)



End connector (p. 3-51)



T-connector (p. 3-53)



Connector 45° (p. 3-55)



Quick connector  
(p. 3-56)



Quick connector, bendable  
(p. 3-61)



Longitudinal end connector  
(p. 3-63)



Bolt connector (p. 3-64)






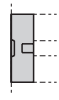


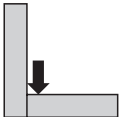








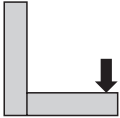








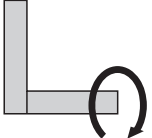










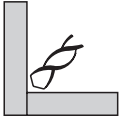








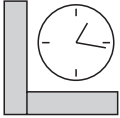








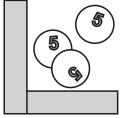








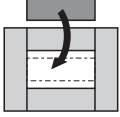








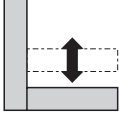








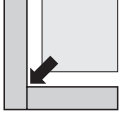








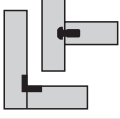










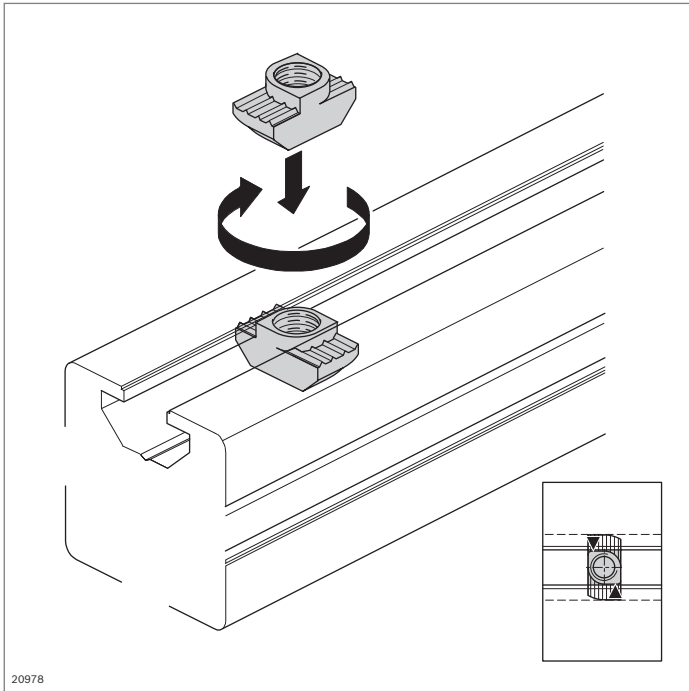
QV mounting kit  
(p. 3-66)



Lifting eye bolt  
(see page 3-67)

### Connection elements, selection criteria

									
		Coupling	Slot connector	Inner bracket	Bracket	Central bolt	T-connector	Quick connector	Bolt connector
	High feed force								
	High moment								
	High torsional moment	 	 						
	Minimal finishing								
	Minimal assembly								
	Low parts costs								
	Subsequent mounting in closed frame possible								
	Adjustment possible								
	Mounting of panel elements								
	Internal connection (concealable)								



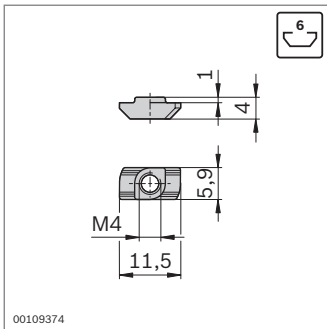
## T-nut






- ▶ Standard element for a secure and conductive connection
- ▶ End stop for correct positioning in the profile slot
- ▶ Stainless steel T-nut, e.g. for outdoor or cleanroom applications
- ▶ Profile finishing: Not required

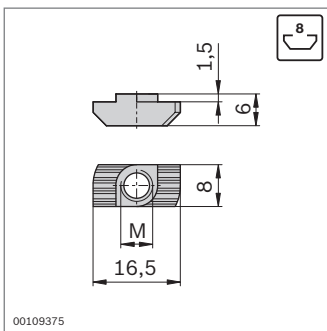
Technical data (p. 18-15)


Accessories:  
Insulating cap (p. 3-5)









Slot	
6	1700 N

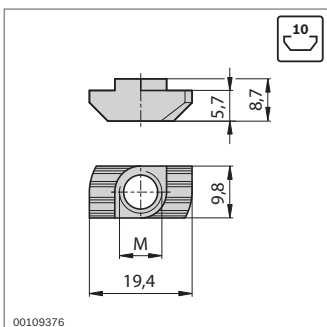
T-nut, 6 mm slot	Slot	M	ESD	No.
Steel; zinc-plated	6	M4		100 3 842 523 135
Stainless steel	6	M4		100 3 842 536 599




Slot	
8 (M6)	4000 N









T-nut, 8 mm slot	Slot	M	ESD	No.
Steel; zinc-plated	8	M4		100 3 842 501 751
		M5*		100 3 842 501 752
		M6*		100 3 842 501 753
Stainless steel	8	M4		100 3 842 536 600
		M5		100 3 842 536 601
		M6		100 3 842 536 602

\* Suitable for standard screws. **Attention:** T-nuts have driving torque for safe turning in the base of the slot.

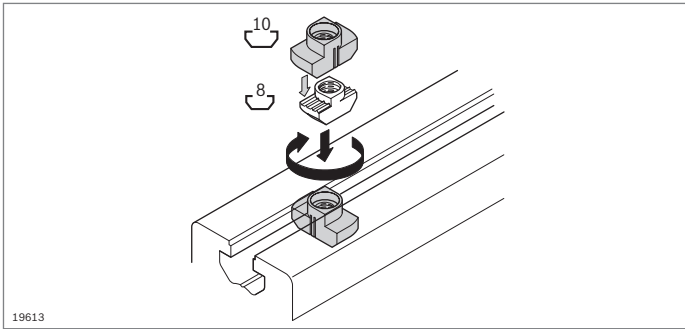


Slot	
10 (M8)	6000 ... 18000 N <sup>1)</sup>

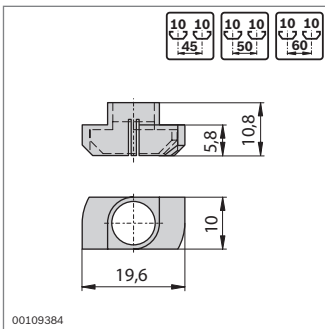
<sup>1)</sup> Depending on profile (p. 19-5)

T-nut, 10 mm slot	Slot	M	ESD	No.
Steel; zinc-plated	10	M4		100 3 842 530 281
		M5*		100 3 842 530 283
		M6*		100 3 842 530 285
		M8*		100 3 842 530 287
Stainless steel	10	M4		100 3 842 536 606
		M5		100 3 842 536 605
		M6		100 3 842 536 604
		M8		100 3 842 536 603

\* Suitable for standard screws. **Attention:** T-nuts have driving torque for safe turning in the base of the slot.



19613



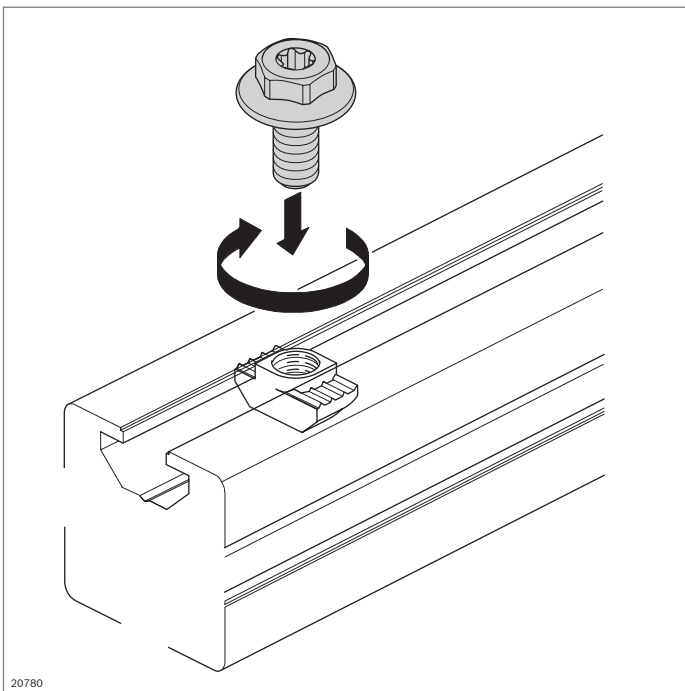
00109384

- ▶ Insulating cap for decoupling directly grounded components; for use with T-nuts for 8 mm slots in a 10 mm slot

Insulating cap for T-nut 8 mm slot	Slot	No.
---------------------------------------	------	-----

10 10 **3 842 524 012**

Material: PA; high-strength, black



20780

### Collar screw



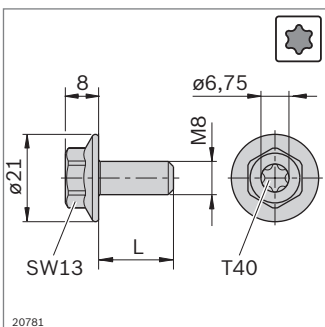
- ▶ Collar screw with multi-function head for tightening with ring/open-end wrench (WS 13) or Torx screwdriver (T40)
- ▶ Machine tightening possible
- ▶ Preferably to be used for fastening brackets
- ▶ Quick and simple assembly
- ▶ Excellent force transmission via the wide flange
- ▶ ESD-capable
- ▶ With Polyfleck to secure the T-nut

Tools:

Offset screwdriver (p. 14-6)


Accessories:


T-nut (p. 3-4)



20781

Collar screw	M	L (mm)	ESD	No.
--------------	---	--------	-----	-----

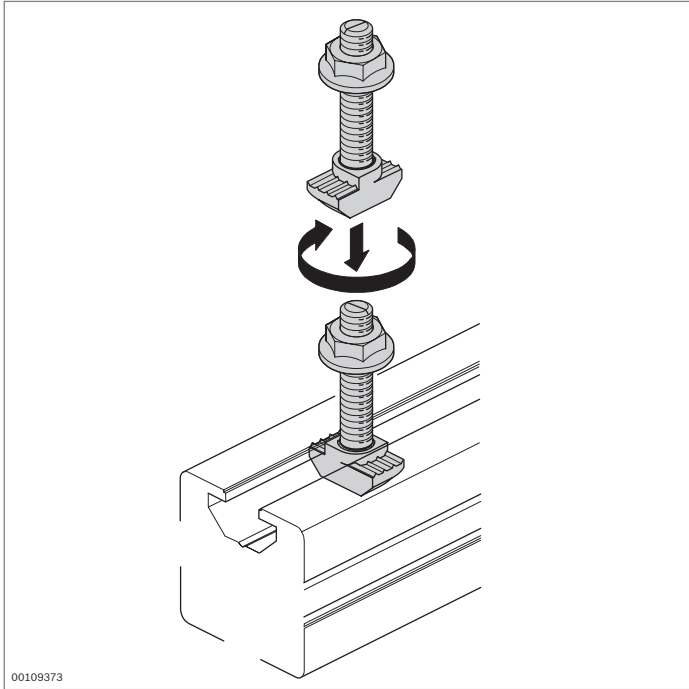
**M8x18-SW13-T40<sup>1)</sup>** M8 18  100 **3 842 541 246**

**M8x20-SW13-T40<sup>2)</sup>** M8 20  100 **3 842 541 409**

<sup>1)</sup> For 40/40 and 60/60 brackets

<sup>2)</sup> For all other brackets for 10 mm slot

Material: Steel; zinc-plated

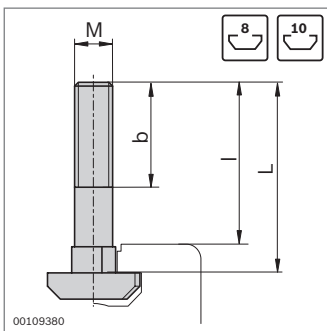
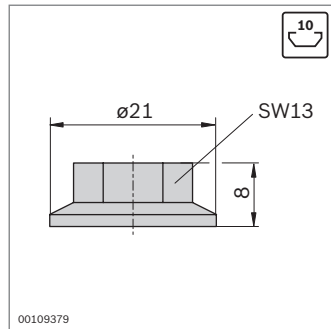
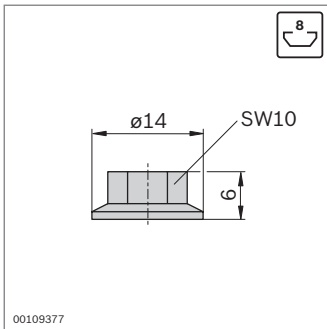


### Flange nut T-bolt



- ▶ Secure and conductive connection
- ▶ Notch at bolt end as marker for correct position recognition
- ▶ Profile finishing: Not required

Technical data (p. 18-15)



Slot	
8	4000 N
10	6000 ... 18000 N <sup>1)</sup>

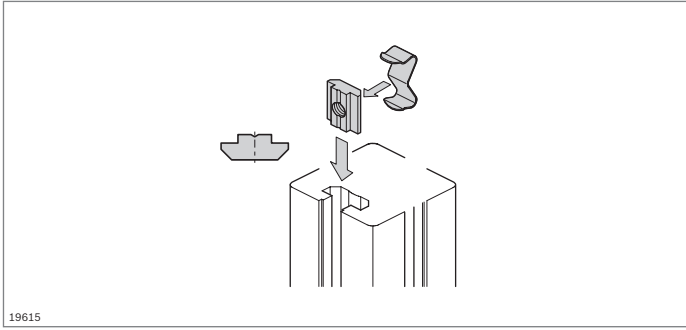
<sup>1)</sup> Depending on profile (p. 18-15)

Flange nut	Slot	M	ESD	No.
	8	M6		100 3 842 523 925
	10	M8		100 3 842 345 081

Material: Steel; zinc-plated

T-bolt	Slot	MxL	b (mm)	l (mm)	ESD	No.
8	8	M6x16	10	14		100 3 842 523 920
		M6x20	14	18		100 3 842 523 921
		M6x25	18	23		100 3 842 523 922
10	10	M8x20	14	14		100 3 842 528 715
		M8x25	19	19		100 3 842 528 718
		M8x30	24	24		100 3 842 528 721
		M8x40	22	34		100 3 842 528 724
		M8x45	22	29		100 3 842 563 312
		M8x50	22	44		100 3 842 528 727
		M8x60	22	54		100 3 842 528 730

Material: Steel; zinc-plated



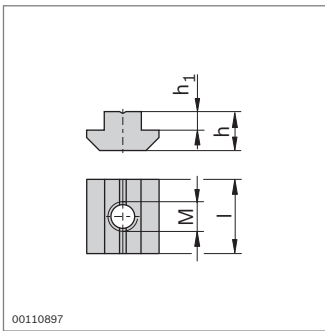
19615

### Sliding block, sliding block profile

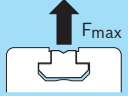


- ▶ Sliding block for reliable absorption of high forces
- ▶ Sliding block profile for self-assembly of individual fastening elements
- ▶ Profile finishing: Not required
- ▶ The spring assists with the assembly and positioning of the sliding block and swivel-in sliding block (p. 3-8)

Technical data (p. 18-15)



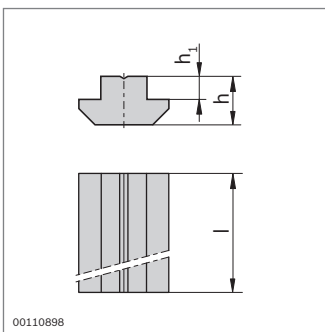
00110897

Slot	
6 (M5)	3000 N
8 (M8)	6000 N
10 (M8)	8000 ... 24000 N <sup>1)</sup>

<sup>1)</sup> Depending on profile (p. 18-15)

Sliding block	Slot	M	h (mm)	h <sub>1</sub> (mm)	l (mm)	ESD	No.	
Steel; zinc-plated	6	M4	4.0	1.0	12		100 3 842 542 692	
		M5	4.0	1.0	12		100 3 842 542 693	
	8	M4	6.0	2.0	16		100 3 842 514 928	
		M5	6.0	2.0	16		100 3 842 514 929	
		M6	6.0	2.0	16		100 3 842 514 930	
		M8	6.0	2.0	16		100 3 842 514 931	
	10	M5	10.5	5.0	20		100 3 842 528 741	
		M6	10.5	5.0	20		100 3 842 528 738	
		M8	10.5	5.0	20		100 3 842 528 735	
		Steel; stainless	6	M4	4.0	1.0	12	
	M5			4.0	1.0	12		100 3 842 523 142
	8		M4	6.0	2.0	16		100 3 842 547 817
M5			6.0	2.0	16		100 3 842 547 816	
M6			6.0	2.0	16		100 3 842 547 815	
M8			6.0	2.0	16		100 3 842 547 814	
10	M5		10.5	5.0	20		100 3 842 547 813	
	M6		10.5	5.0	20		100 3 842 547 812	
	M8		10.5	5.0	20		100 3 842 547 811	

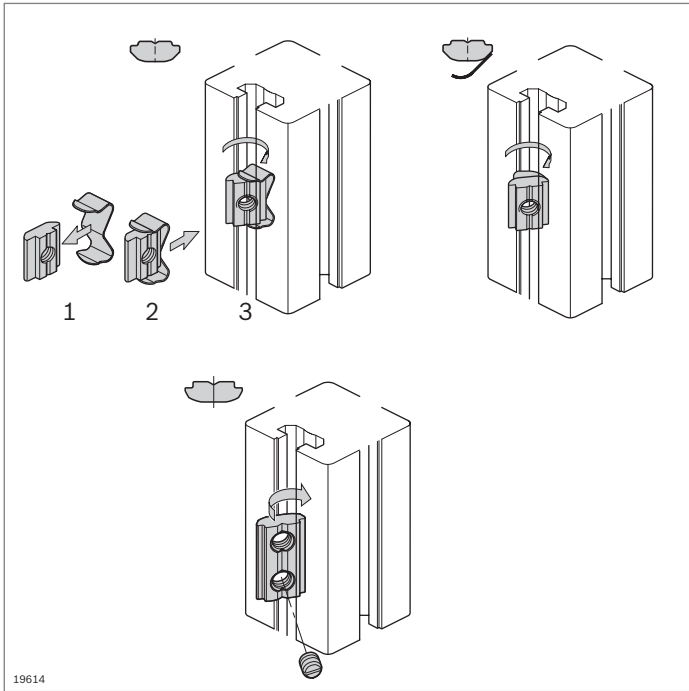
Accessories: Spring (p. 3-9)



00110898

Sliding block profile	Slot	h (mm)	h <sub>1</sub> (mm)	l (mm)	No.
Steel; zinc-plated	6	4.0	1.0	1000	3 842 542 694
	8	6.0	2.0	1000	3 842 510 078
	10	10.5	5.0	1000	3 842 528 744
Steel; stainless	6	4.0	1.0	1000	3 842 523 438

Accessories: Spring (p. 3-9)

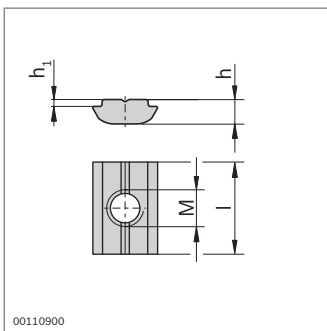
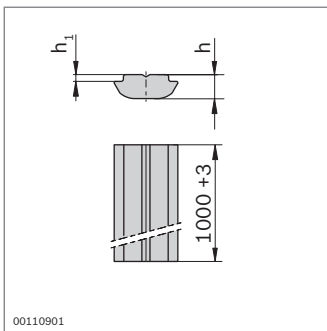


**Swivel-in sliding block**  
**Swivel-in sliding block profile**  
**Spring**



- ▶ Swivel-in sliding block profile for self-assembly of individual fastening elements
- ▶ The swivel-in sliding block can be inserted directly at the assembly point for easy assembly
- ▶ The swivel-in sliding block with spring can be inserted directly at the assembly point and fixed in position thanks to attached springs
- ▶ Swivel-in sliding block with headless setscrews for shake-proof fixing in all positions
- ▶ Profile finishing: Not required

Technical data (p. 18-15)



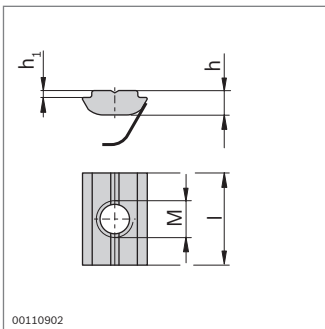
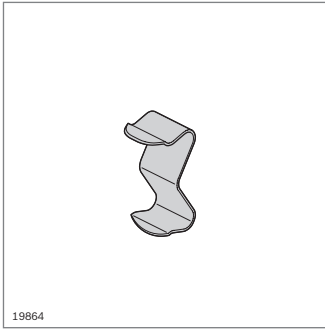
Slot	
8 (M8)	2200 N
10 (M8)	8000 ... 18000 N <sup>1)</sup>

<sup>1)</sup> Depending on profile (p. 18-15)

Swivel-in sliding block profile	Slot	h (mm)	h <sub>1</sub> (mm)	l (mm)	No.
Steel; zinc-plated	8	4.8	1.0	1000	3 842 529 327
	10	5.3	1.5	1000	3 842 529 325

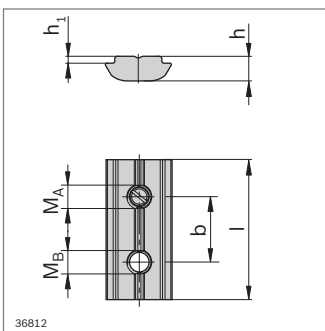
Swivel-in sliding block	Slot	M	h (mm)	h <sub>1</sub> (mm)	l (mm)	ESD	No.
Steel; zinc-plated	8	M5	4.8	1.0	16	100	3 842 529 319
		M6	4.8	1.0	16	100	3 842 529 320
		M8	4.8	1.0	16	100	3 842 529 321
	10	M6	5.3	1.5	20	100	3 842 529 323
		M8	5.3	1.5	20	100	3 842 529 324
Steel; stainless	6	M3	3.0	0.9	12		100 3 842 547 826
		M4	3.0	0.9	12		100 3 842 536 669
		M5	3.0	0.9	12		100 3 842 547 825
	8	M6	4.8	1.0	16		100 3 842 530 321
		M8	5.3	1.5	20		100 3 842 530 316

Accessories: Spring (p. 3-9)



Slot	
8 (M8)	2200 N
10 (M8)	8000 ... 18000 N <sup>1)</sup>

<sup>1)</sup> Depending on profile (p. 18-15)



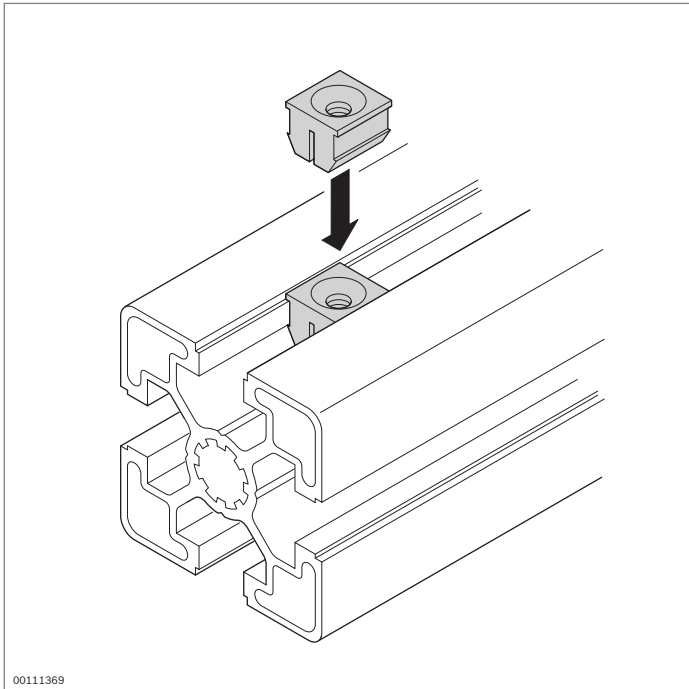
► The spring assists with the assembly and positioning of the sliding block and swivel-in sliding block

Spring	Slot	No.
Spring steel; stainless	6	100 3 842 523 145
	8	100 3 842 516 685
	10	100 3 842 516 669

Swivel-in sliding block with spring	Slot	M	h (mm)	h <sub>1</sub> (mm)	l (mm)	ESD	No.
Steel; zinc-plated	8	M4	4.8	1.0	16		100 3 842 529 294
		M5	4.8	1.0	16		100 3 842 529 295
		M6	4.8	1.0	16		100 3 842 529 296
		M8	4.8	1.0	16		100 3 842 529 297
	10	M4	5.3	1.5	20		100 3 842 541 393
		M5	5.3	1.5	20		100 3 842 529 298
		M6	5.3	1.5	20		100 3 842 529 299
		M8	5.3	1.5	20		100 3 842 529 300
Steel; stainless	8	M4	4.8	1.0	16		100 3 842 547 824
		M5	4.8	1.0	16		100 3 842 547 823
		M6	4.8	1.0	16		100 3 842 547 822
		M8	4.8	1.0	16		100 3 842 547 821
	10	M5	5.3	1.5	20		100 3 842 547 808
		M6	5.3	1.5	20		100 3 842 547 807
		M8	5.3	1.5	20		100 3 842 547 806

Material: Spring: Spring steel; stainless

Swivel-in sliding block with headless setscrew (M <sub>A</sub> )	Slot	M <sub>A</sub> ; M <sub>B</sub>	b (mm)	h (mm)	h <sub>1</sub> (mm)	l (mm)	No.
Steel; stainless	6	M4; M4	8	3.0	0.9	15	100 3 842 536 673
Steel; zinc-plated	8	M5; M4	12	4.8	1.0	24	100 3 842 557 259
		M5; M5	12	4.8	1.0	24	100 3 842 536 675
		M5; M6	12	4.8	1.0	24	100 3 842 557 260
	10	M5; M5	14	5.3	1.5	30	100 3 842 536 676
		M5; M6	14	5.3	1.5	30	100 3 842 557 261
		M5; M8	14	5.3	1.5	30	100 3 842 557 262



00111369

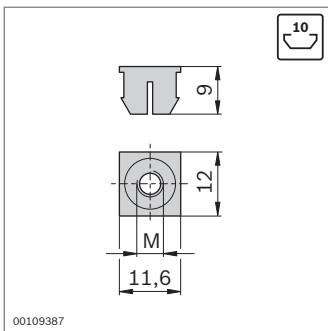
## Expanding nut



- ▶ For attaching light accessories such as cable ties or rings
- ▶ Easy assembly by clipping into the profile slot
- ▶ Profile finishing: Not required

Required accessories:

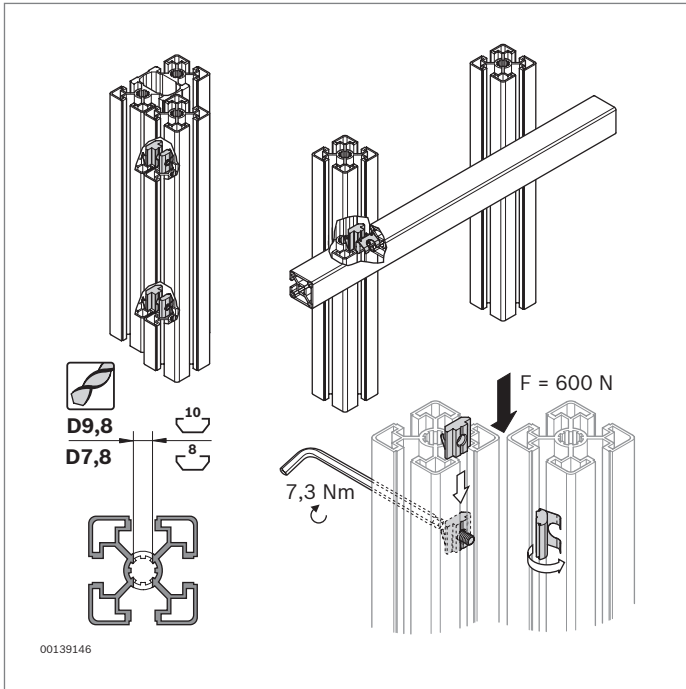
Countersunk screw



00109387

Expanding nut	Slot	M	No.
	10	M4	100 <b>3 842 554 774</b>
		M5	100 <b>3 842 554 776</b>
		M6	100 <b>3 842 554 778</b>

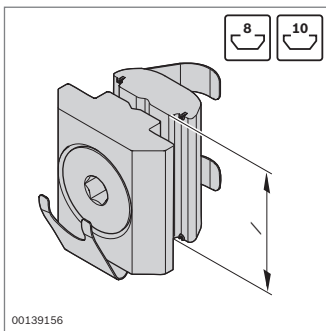
Material: PA; signal gray similar to RAL 7004

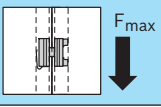


### Parallel connector



- ▶ For a gap-free connection between two strut profiles, parallel to the axis or at any angle
- ▶ Parallel connector consisting of two sliding blocks with welded springs for simple assembly
- ▶ Attractive-looking interior connection, e.g. for material shelves
- ▶ Connection possible in any position
- ▶ Transferable displacement force per parallel connector: 600 N
- ▶ Profile finishing: Through-hole

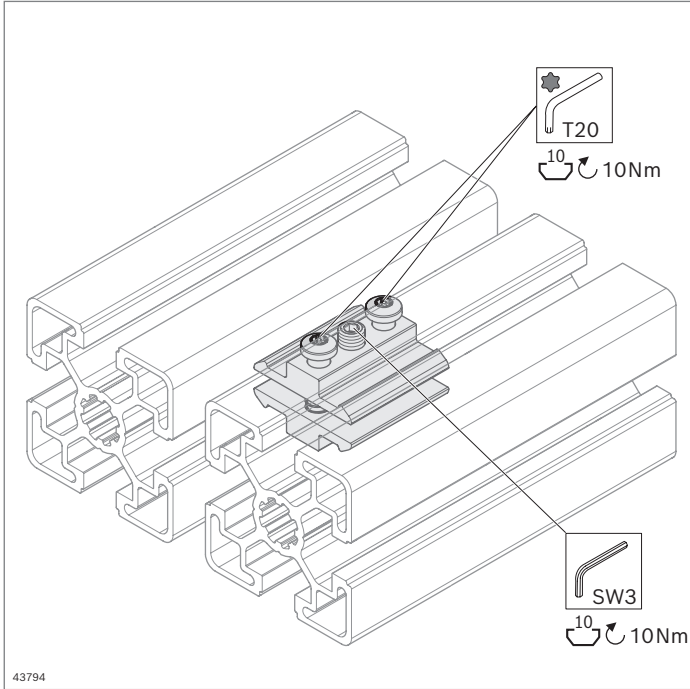


Slot	
8	600 N
10	600 N

Parallel connector	Slot	l (mm)	No.	
	8	16	10	<b>3 842 542 737</b>
	10	20	10	<b>3 842 542 736</b>

Material: Sliding block: Steel; zinc-plated  
 Spring: Spring steel; stainless

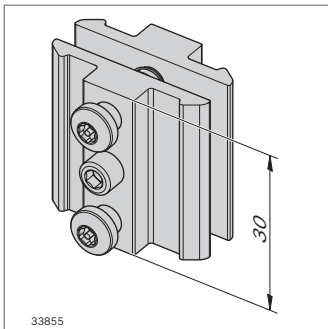
Scope of delivery: Sliding block with spring; swivel-in sliding block with spring; M5 countersunk screw



### Quick parallel connector

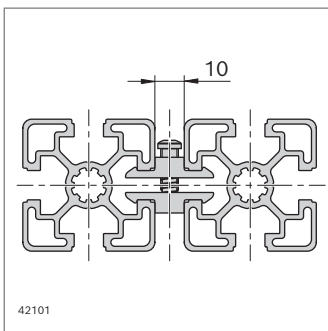


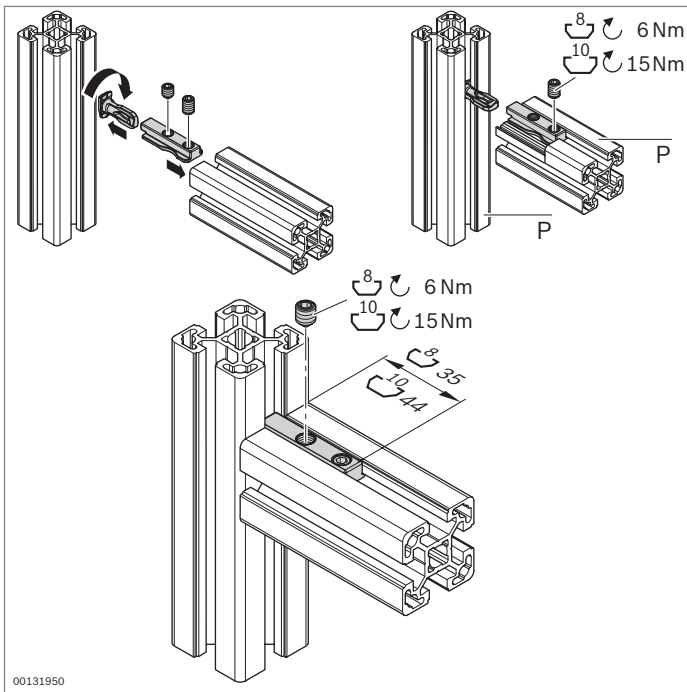
- ▶ For connection of two strut profiles, axially parallel with 10 mm distance
- ▶ Parallel connector pre-assembled
- ▶ The center screw is used for tightening
- ▶ Connection possible at any point along the profile slot
- ▶ Transferable displacement force per parallel connector: 500 N
- ▶ No machining of the profile necessary



Slot	F <sub>max</sub>
10	500 N

Quick parallel connector	Slot	No.
Material: Steel; zinc-plated	10	10 <b>3 842 564 742</b>





00131950

### Coupling



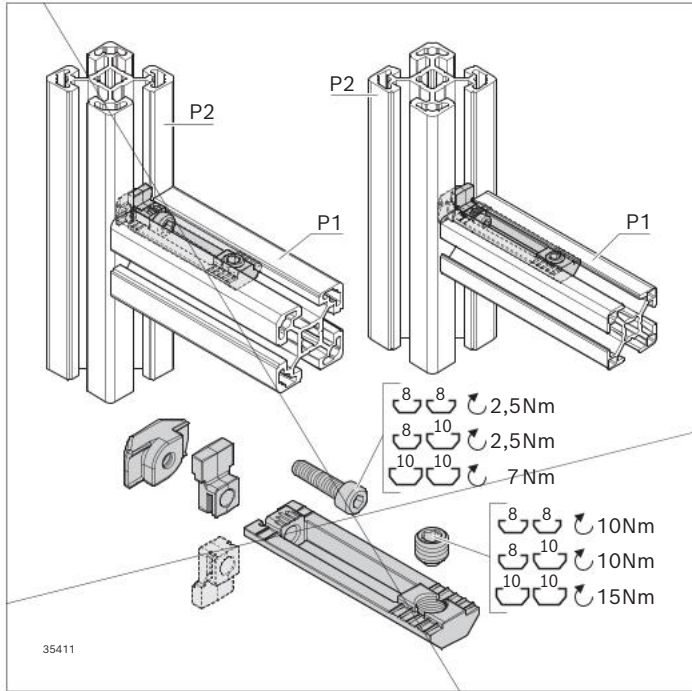
- ▶ Tensioning connector for fast assembly
- ▶ The connector can be moved within the slot
- ▶ Easily accessible screws
- ▶ Three slots are left free for mounting of panel elements
- ▶ Profile finishing: Not required

Technical data (p. 18-18)

P			
30x...	1000 N	35 Nm	15 Nm
45x...L	3500 N	110 Nm	30 Nm
40x..., 45x..., 50x..., 90x...	3500 N	110 Nm	30 Nm
60x...	3500 N	195 Nm	60 Nm

Coupling	Slot P	ESD	No.
<b>8</b>	8 30x...		10 <b>3 842 538 489</b>
<b>10L</b>	10 45x...L 45x90SL 90x90SL		10 <b>3 842 538 491</b>
<b>10</b>	10 40x...L, 45x..., 50x...L, 60x..., 60x...L 80x...L 90x..., 90x...L, 45x90x90L		10 <b>3 842 538 490</b>

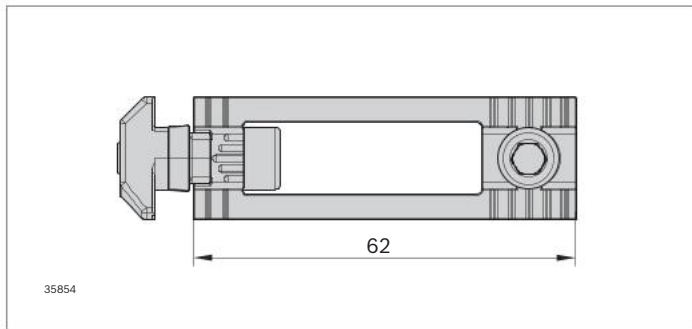
Material: Steel; zinc-plated



### Slot connector



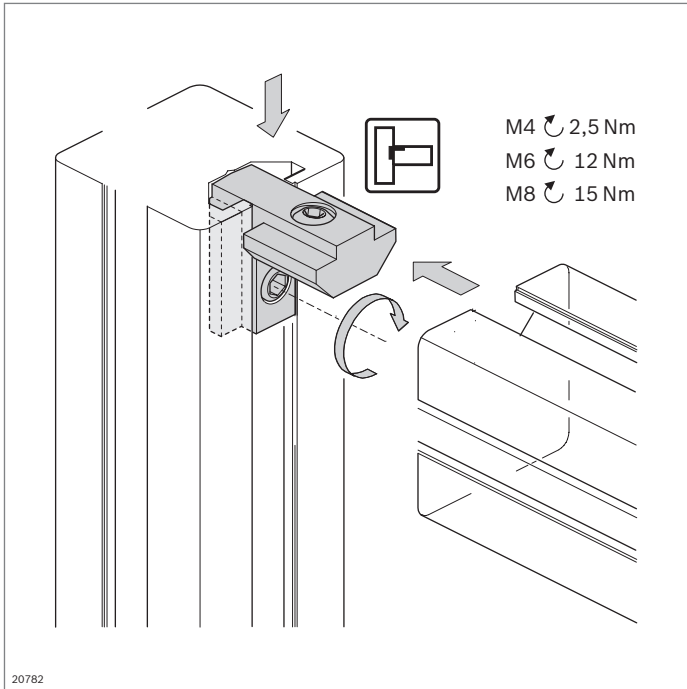
- ▶ Slot connector for fast assembly
- ▶ The connector can be moved within the slot
- ▶ Easily accessible screws
- ▶ Anti-torsion element can be removed if necessary, variable alignment (slot 10/10; 8/10)
- ▶ Headless setscrew, preassembled
- ▶ Profile finishing: Not required



Slot connector	P1	P2	ESD	No.	No.
8/8	8	8	⚡	10	3 842 558 566
8/10	8	10	⚡	10	3 842 558 567
10/10	10	10	⚡	10	3 842 558 568

Material: Slot connector: Steel; zinc-plated  
Anti-torsion element: PA6

Slot	$F_{max}$	$M_{max}$	$M_{max}$
8 / 8	1000 N	35 Nm	15 Nm
8 / 10	1000 N	35 Nm	15 Nm
10 / 10	3000 N	110 Nm	30 Nm

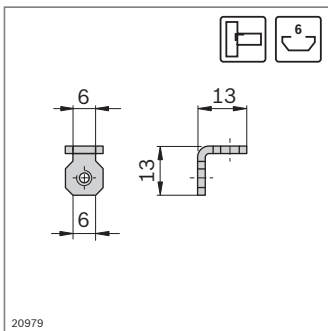


**Inner bracket**



- ▶ For elegant, easy-to-assemble profile connections
- ▶ Especially suitable for constructing door frames, protective grilles, or partition walls
- ▶ The inner bracket, 6 mm slot, can also be used as an inner bracket R, 6 mm slot
- ▶ Profile finishing: Not required

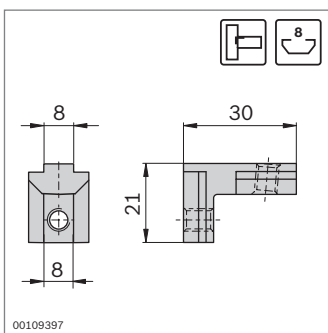
Technical data (p. 18-18)



**FS1**  
ISO 4027  
M4x6

Inner bracket	Slot	ESD	No.	FS
	6 / 6		10	3 842 535 574 2xFS1

Material: Sheet steel; zinc-plated  
Fastening material: Steel; zinc-plated  
Scope of delivery: Incl. fastening material (FS)

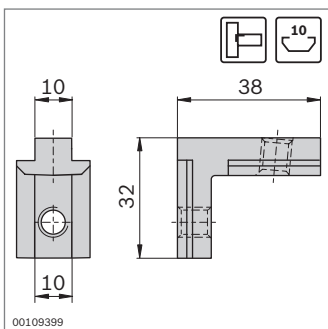


Slot	$F_{max}$	$M_{max}$
8 / 8	2200 N	50 Nm

**FS2**  
DIN 913  
M6x8

Inner bracket	Slot	ESD	No.	FS
	8 / 8		10	3 842 535 578 2xFS2

Material: Cast steel; zinc-plated  
Fastening material: Steel; zinc-plated  
Scope of delivery: Incl. fastening material (FS)

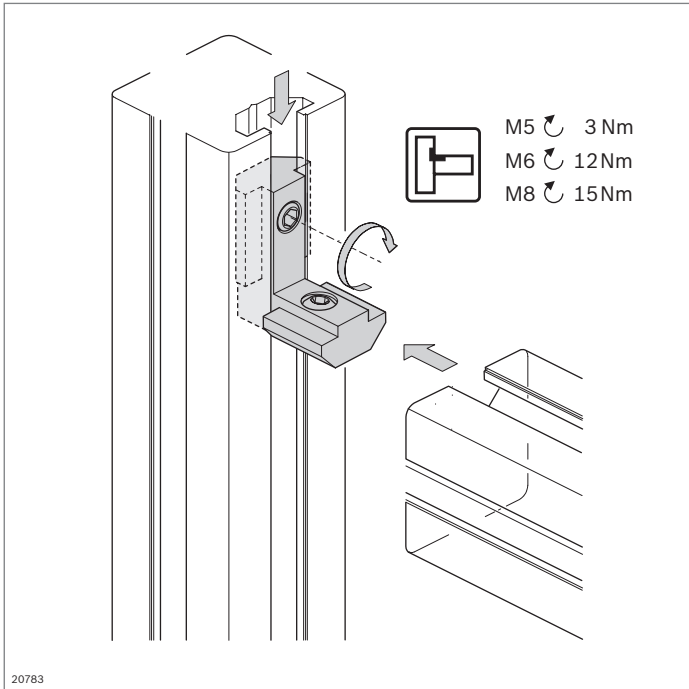


Slot	$F_{max}$	$M_{max}$
10 / 10	2800 N	100 Nm

**FS3**  
ISO 4026  
M8x12

Inner bracket	Slot	ESD	No.	FS
	10 / 10		10	3 842 535 572 2xFS3

Material: Cast steel; zinc-plated  
Fastening material: Steel; zinc-plated  
Scope of delivery: Incl. fastening material (FS)

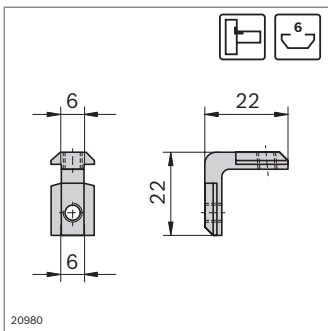


### Inner bracket R

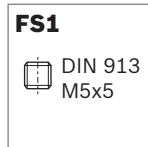


- ▶ For elegant, easy-to-assemble profile connections
- ▶ Especially suitable for constructing door frames, protective grilles, or partition walls
- ▶ Profile finishing: Not required

Technical data (p. 18-18)

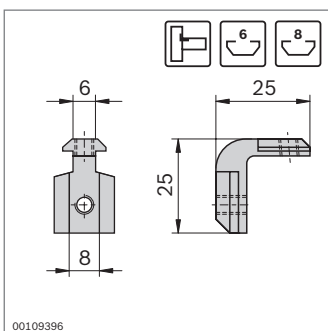


Slot	$F_{max}$	$M_{max}$
6 / 6	600 N	10 Nm

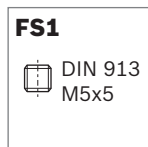


Inner bracket R	Slot	ESD	No.	FS
	6 / 6		10	3 842 535 575 2xFS1

Material: Cast steel; zinc-plated  
Fastening material: Steel; zinc-plated  
Scope of delivery: Incl. fastening material (FS)

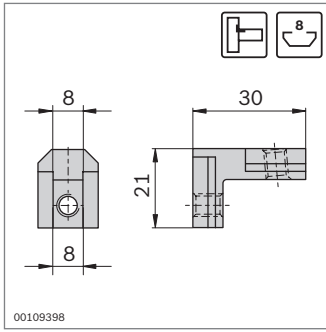


Slot	$F_{max}$	$M_{max}$
6 / 8	600 N	10 Nm



Inner bracket R	Slot	ESD	No.	FS
	6 / 8		10	3 842 535 573 2xFS1

Material: Cast steel; zinc-plated  
Fastening material: Steel; zinc-plated  
Scope of delivery: Incl. fastening material (FS)



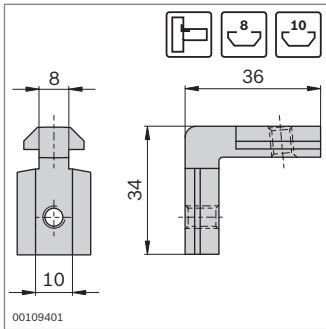
Slot	$F_{max}$	$M_{max}$
8 / 8	2500 N	50 Nm

**FS2**

DIN 913  
M6x8

Inner bracket R	Slot	ESD	No.	FS
	8 / 8		10	3 842 535 577 2xFS2

Material: Cast steel; zinc-plated  
Fastening material: Steel; zinc-plated  
Scope of delivery: Incl. fastening material (FS)



Slot	$F_{max}$	$M_{max}$
8 / 10	2500 N	50 Nm

**FS2**

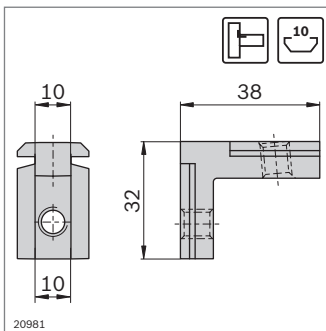
DIN 913  
M6x8

**FS3**

DIN 913  
M6x12

Inner bracket R	Slot	ESD	No.	FS
	8 / 10		10	3 842 535 576 FS2, FS3

Material: Cast steel; zinc-plated  
Fastening material: Steel; zinc-plated  
Scope of delivery: Incl. fastening material (FS)



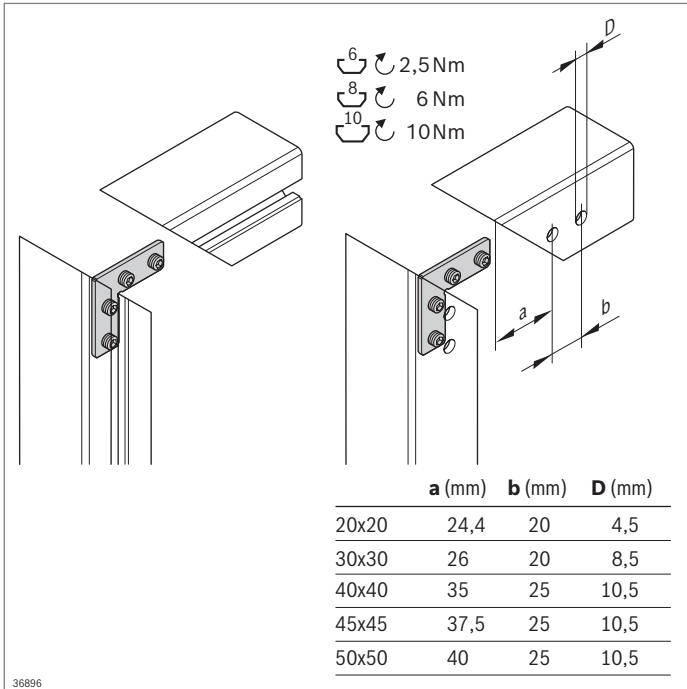
Slot	$F_{max}$	$M_{max}$
10 / 10	3000 N	100 Nm

**FS4**

ISO 4026  
M8x12

Inner bracket R	Slot	ESD	No.	FS
	10 / 10		10	3 842 535 571 2xFS4

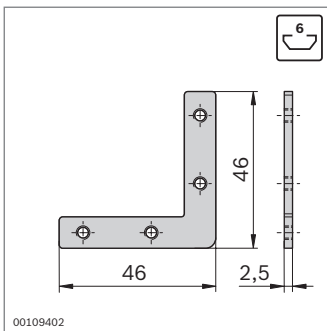
Material: Cast steel; zinc-plated  
Fastening material: Steel; zinc-plated  
Scope of delivery: Incl. fastening material (FS)



## Miter bracket

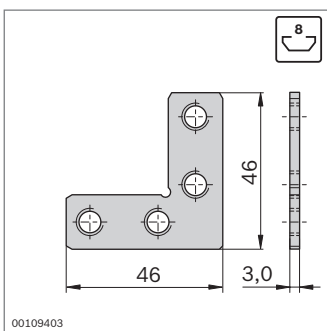


- For right-angled connections of miter-cut profiles
- Profile finishing with open profile slots: Not required
- Profile finishing with closed profile slots: Through-holes for screwdriver



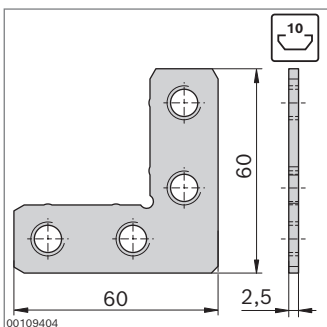
### FS1

DIN EN ISO 4027  
M4x5



### FS2

DIN EN ISO 4026  
M8x8



### FS3

DIN EN ISO 4026  
M10x10

Miter bracket	Slot	ESD	No.	FS
	6		20	3 842 535 626 4xFS1

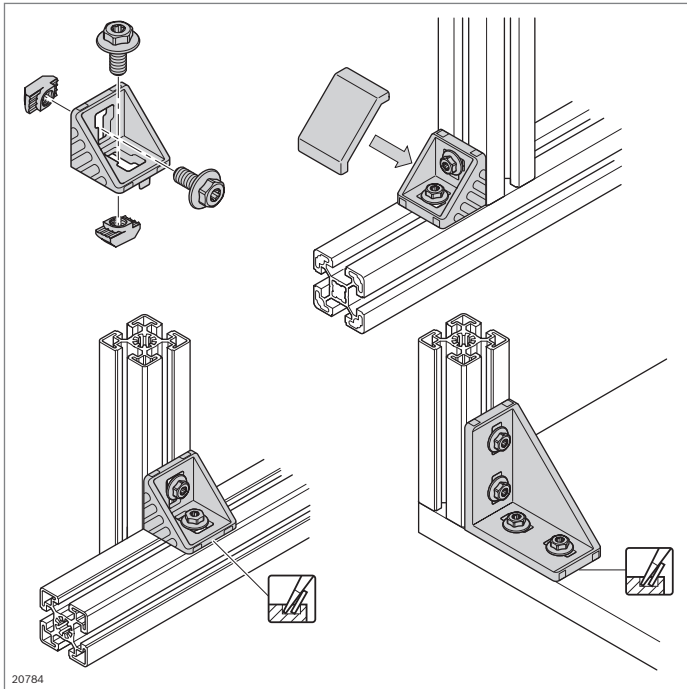
Material: Steel; stainless  
Fastening material: Steel; zinc-plated  
Scope of delivery: Incl. fastening material (FS)

Miter bracket	Slot	ESD	No.	FS
	8		20	3 842 535 627 4xFS2

Material: Steel; zinc-plated  
Fastening material: Steel; zinc-plated  
Scope of delivery: Incl. fastening material (FS)

Miter bracket	Slot	ESD	No.	FS
	10		20	3 842 563 228 4xFS3

Material: Steel; zinc-plated  
Fastening material: Steel; zinc-plated  
Scope of delivery: Incl. fastening material (FS)



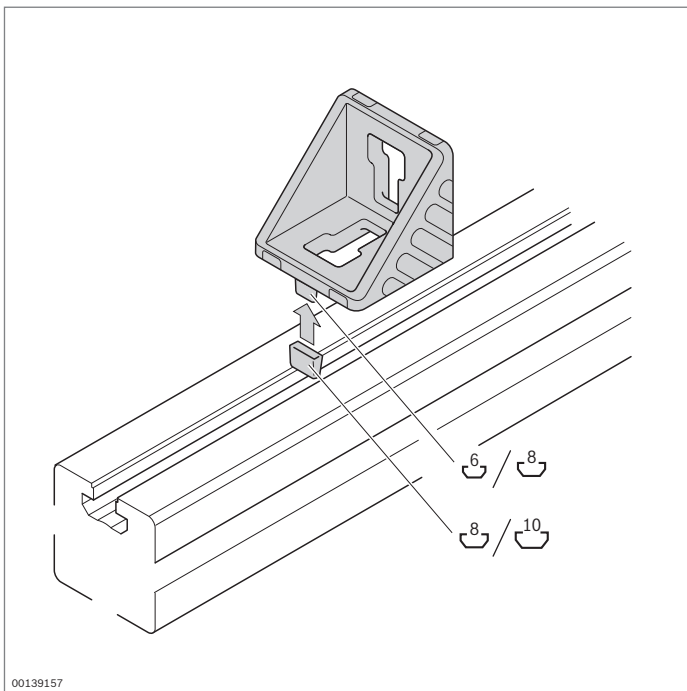
## Bracket

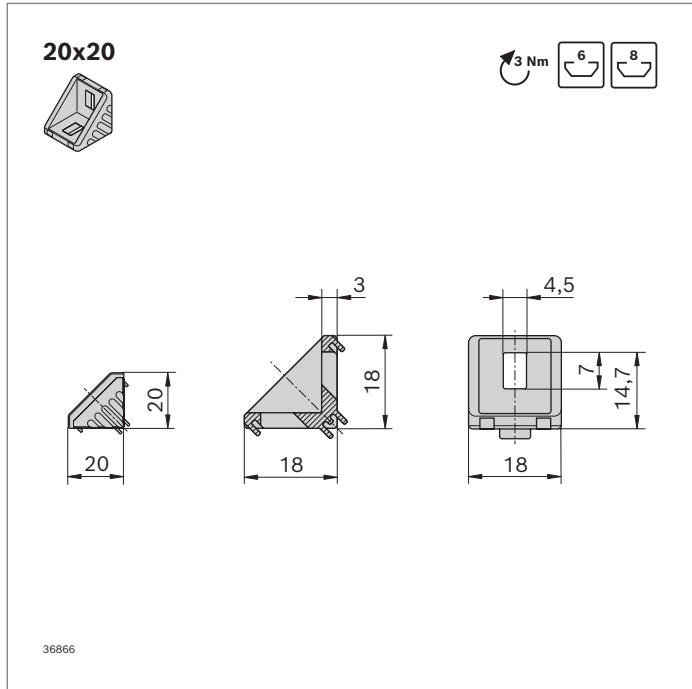


- ▶ Brackets with centering lugs for rapid, precise assembly with protection against turning
- ▶ Centering lugs can be easily broken off for assembly on plates or at right angles to the slot
- ▶ *designLINE* version with special silver paint (RAL 9006) for an attractive, high-quality design
- ▶ Intermediate element for positioning brackets in the next largest slot
- ▶ Sliding block offset for off-center positioning of the 45/45 bracket
- ▶ Cover cap for preventing dirt, available in signal gray (RAL 7004) and black ESD (RAL 9005)
- ▶ Profile finishing: Not required

Technical data (p. 18-19)

**Notice:** The collar screws enable the brackets to be assembled really quickly and easily (p. 3-5)



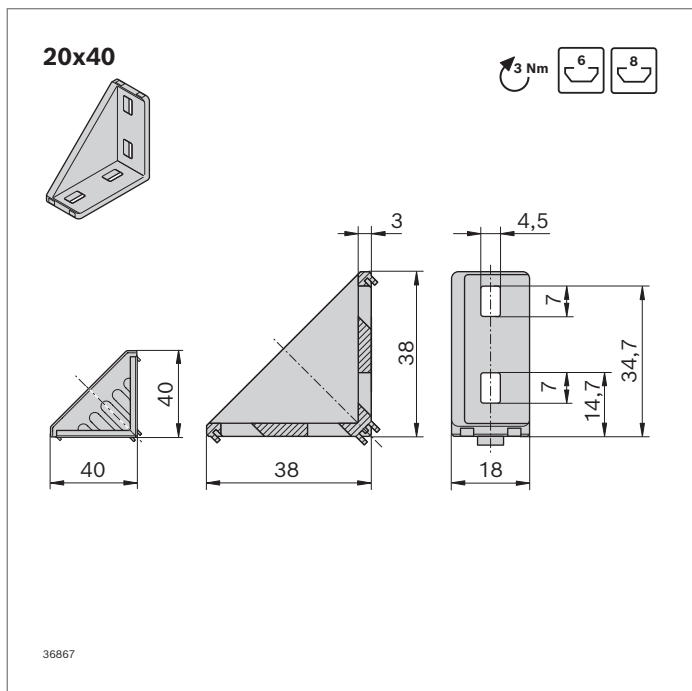
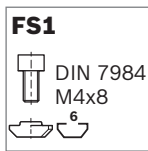


Type				
20x20	700 N	6 Nm	25 Nm	–

20x20	Slot	ESD		No.	FS
Set (standard)	6 / 6		1	<b>3 842 523 511</b>	2xFS1
<i>designLINE</i> set	6 / 6		1	<b>3 842 551 596</b>	2xFS1
Bracket (standard)	6		100	<b>3 842 523 508</b>	
Cover cap, signal gray			100	<b>3 842 548 842</b>	
Cover cap, black			20	<b>3 842 548 843</b>	
Intermediate element for 8 mm slot	6 / 8		100	<b>3 842 523 516</b>	

Material: Bracket Diecast aluminum  
*designLINE* bracket: painted (RAL 9006)  
 Intermediate element: PA; black  
 Cover cap: PP  
 Fastening material: Steel; zinc-plated

Scope of delivery: Set incl. fastening material (FS)

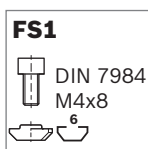


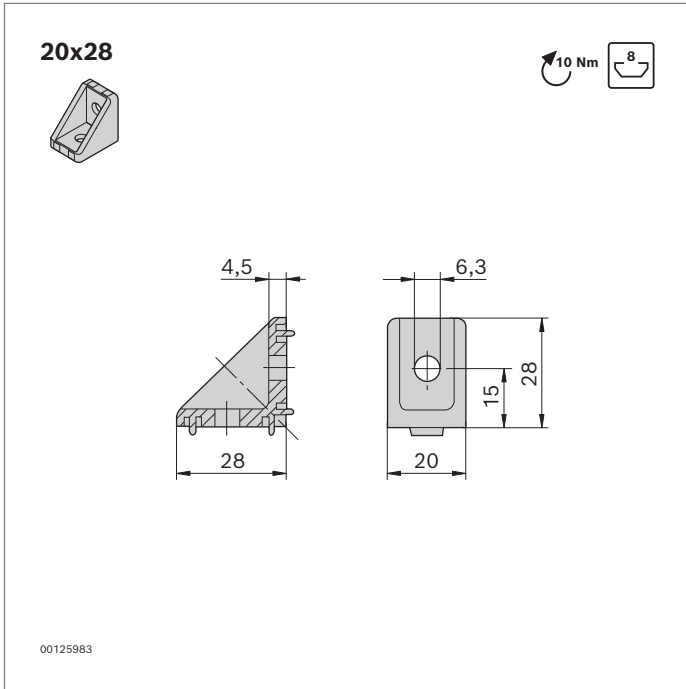
Type				
20x40	1400 N	15 Nm	50 Nm	8 Nm

20x40	Slot	ESD		No.	FS
Set (standard)	6 / 6		1	<b>3 842 523 520</b>	4xFS1
<i>designLINE</i> set	6 / 6		1	<b>3 842 551 597</b>	4xFS1
Bracket (standard)	6		20	<b>3 842 523 517</b>	
Cover cap, signal gray			20	<b>3 842 548 844</b>	
Cover cap, black			20	<b>3 842 548 845</b>	
Intermediate element for 8 mm slot	6 / 8		100	<b>3 842 523 516</b>	

Material: Bracket Diecast aluminum  
*designLINE* bracket: painted (RAL 9006)  
 Intermediate element: PA; black  
 Cover cap: PP  
 Fastening material: Steel; zinc-plated

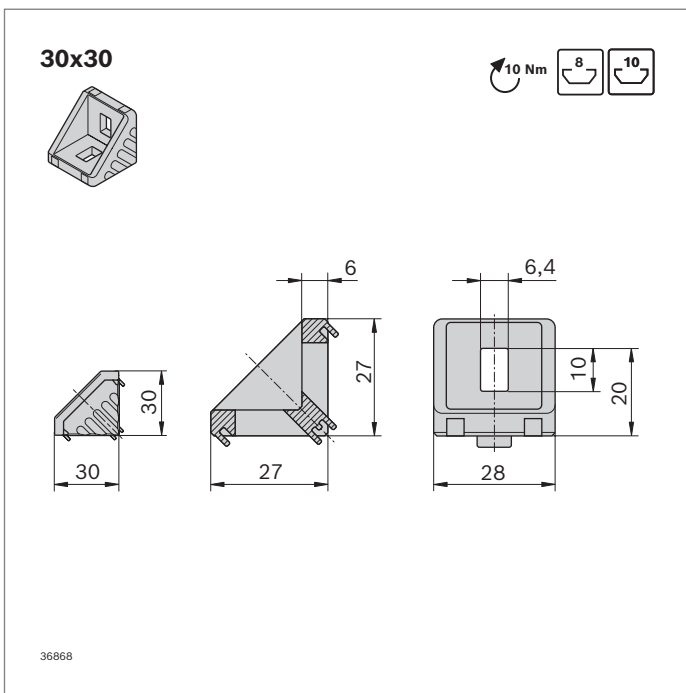
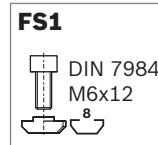
Scope of delivery: Set incl. fastening material (FS)





20x28	Slot	ESD		No.	FS
Set (standard)	8 / 8		1	<b>3 842 502 137</b>	2xFS1
Bracket (standard)	8		100	<b>3 842 501 587</b>	

Material: Diecast zinc  
 Fastening material: Steel; zinc-plated  
 Scope of delivery: Set incl. fastening material (FS)

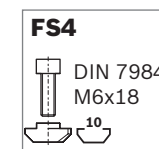
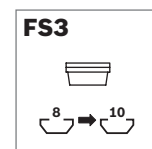
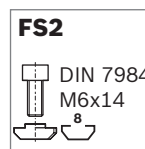


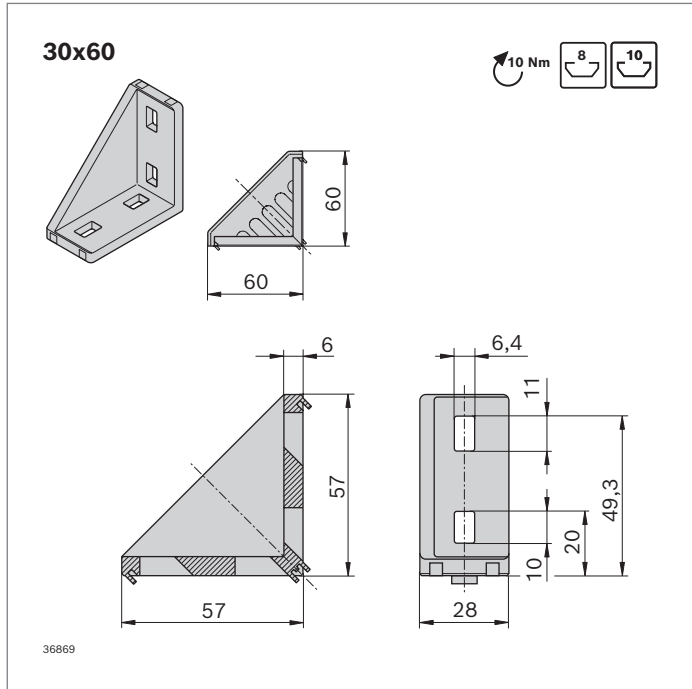
30x30	Slot	ESD		No.	FS
Set (standard)	8 / 8		1	<b>3 842 523 528</b>	2xFS2
	8 / 10		1	<b>3 842 523 530</b>	1xFS2, 2xFS3, 1xFS4
	10 / 10		1	<b>3 842 523 532</b>	4xFS3, 2xFS4
<i>designLINE</i> set	8 / 8		1	<b>3 842 551 598</b>	2xFS2
	8 / 10		1	<b>3 842 551 600</b>	1xFS2, 2xFS3, 1xFS4
	10 / 10		1	<b>3 842 551 599</b>	4xFS3, 2xFS4

Bracket (standard)	8		100	<b>3 842 523 525</b>	
Cover cap, signal gray			100	<b>3 842 548 846</b>	
Cover cap, black			20	<b>3 842 548 847</b>	
Intermediate element for 10 mm slot	8 / 10		100	<b>3 842 523 537</b>	

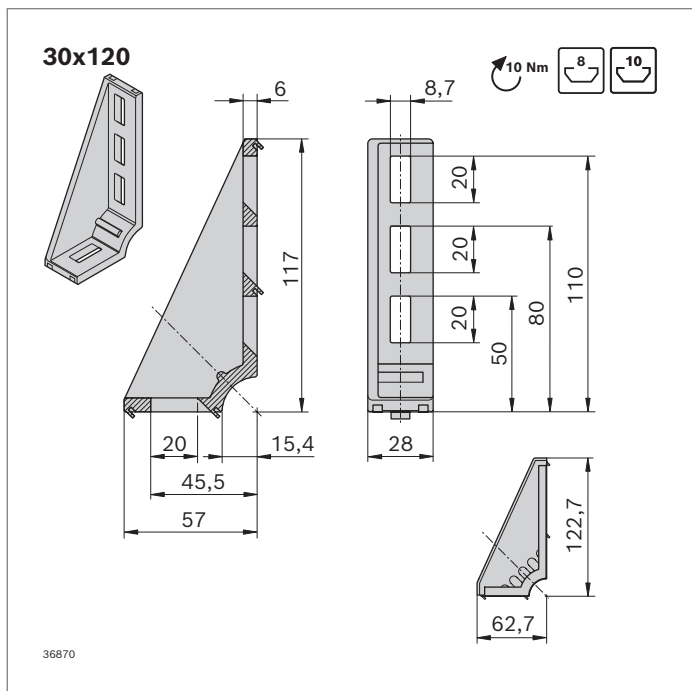
Material: Bracket Diecast aluminum  
*designLINE* bracket: painted (RAL 9006)  
 Intermediate element: PA; black  
 Cover cap: PP  
 Fastening material: Steel; zinc-plated  
 Scope of delivery: Set incl. fastening material (FS)

Type				
30x30	1250 N	25 Nm	75 Nm	-





Type	$F_{max}$	$M_{max}$	$M_{max}$	$M_{max}$
30x60	2500 N	100 Nm	170 Nm	25 Nm

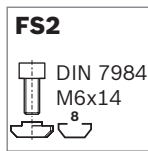


Type	$F_{max}$	$M_{max}$	$M_{max}$
30x120	3750 N	100 Nm	47 Nm

30x60	Slot	ESD	No.	FS
Set (standard)	8 / 8		1	<b>3 842 523 541</b> 4xFS2
<i>designLINE</i> set	8 / 8		1	<b>3 842 551 601</b> 4xFS2
Bracket (standard)	8		20	<b>3 842 523 538</b>
Cover cap, signal gray			20	<b>3 842 548 848</b>
Cover cap, black			20	<b>3 842 548 849</b>
Intermediate element for 10 mm slot	8 / 10		100	<b>3 842 523 537</b>

Material: Bracket Diecast aluminum  
*designLINE* bracket: painted (RAL 9006)  
 Intermediate element: PA; black  
 Cover cap: PP  
 Fastening material: Steel; zinc-plated

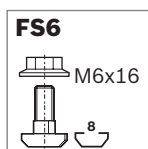
Scope of delivery: Set incl. fastening material (FS)

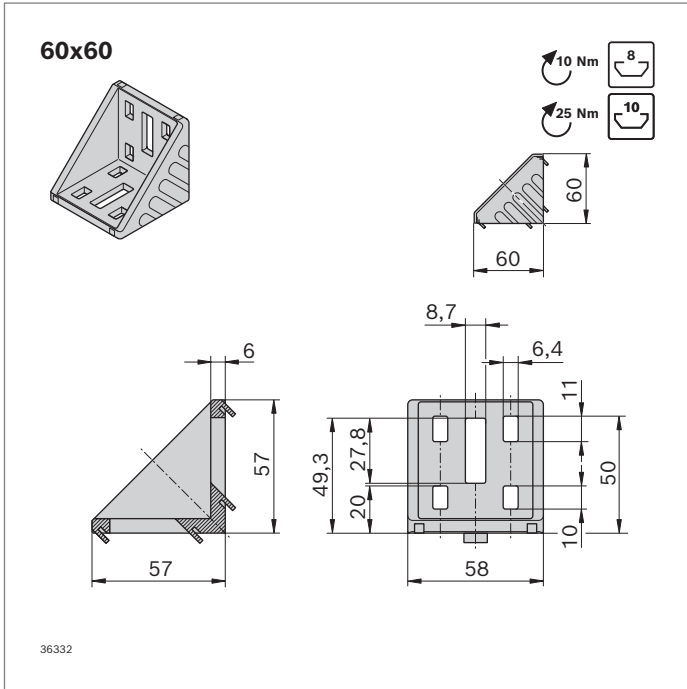


30x120	Slot	ESD	No.	FS
<i>designLINE</i> set	8 / 8		1	<b>3 842 551 602</b> 2xFS6
Bracket (standard)	8		20	<b>3 842 523 587</b>
Cover cap, signal gray			20	<b>3 842 548 850</b>
Cover cap, black			20	<b>3 842 548 851</b>
Intermediate element for 10 mm slot	8 / 10		100	<b>3 842 523 537</b>

Material: Bracket Diecast aluminum  
*designLINE* bracket: painted (RAL 9006)  
 Intermediate element: PA; black  
 Cover cap: PP  
 Fastening material: Steel; zinc-plated

Scope of delivery: Set incl. fastening material (FS)



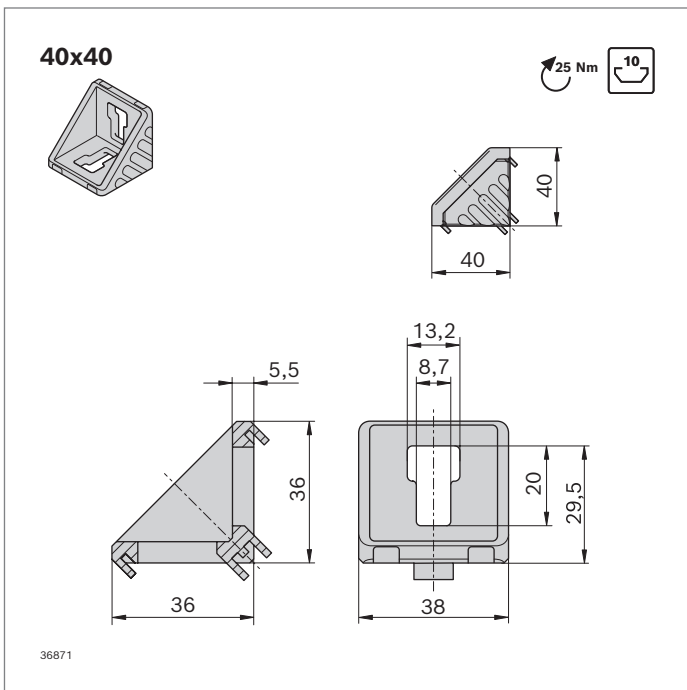
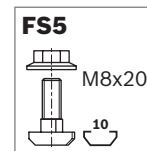
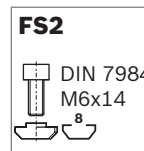


60x60	Slot	ESD	No.	FS
Set (standard)	8 / 8		1 <b>3 842 523 549</b>	8xFS2
	8 / 10		1 <b>3 842 523 551</b>	4xFS2, 1xFS5
	10 / 10		1 <b>3 842 523 553</b>	2xFS5
<i>designLINE</i> set	8 / 8		1 <b>3 842 551 609</b>	8xFS2
	8 / 10		1 <b>3 842 551 610</b>	4xFS2, 1xFS5
	10 / 10		1 <b>3 842 551 611</b>	2xFS5
Bracket (standard)	8		20 <b>3 842 523 546</b>	
Cover cap, signal gray			20 <b>3 842 548 852</b>	
Cover cap, black			20 <b>3 842 548 853</b>	
Intermediate element for 10 mm slot	10		100 <b>3 842 523 537</b>	

Material: Bracket Diecast aluminum  
*designLINE* bracket: painted (RAL 9006)  
 Intermediate element: PA; black  
 Cover cap: PP  
 Fastening material: Steel; zinc-plated

Scope of delivery: Set incl. fastening material (FS)

Type	Slot				
60x60	8	5000 N	320 Nm	370 Nm	110 Nm
	10	3000 N	125 Nm	150 Nm	-

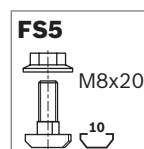


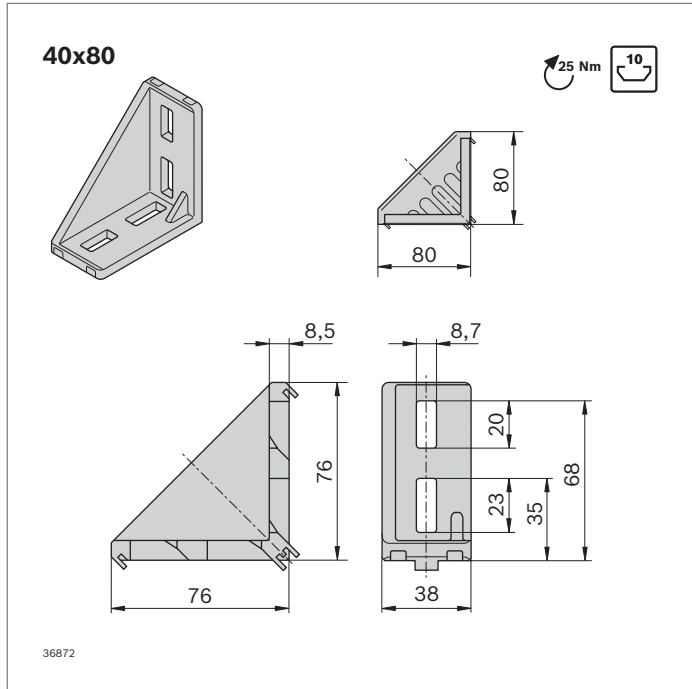
40x40	Slot	ESD	No.	FS
Set (standard)	10 / 10		1 <b>3 842 529 383</b>	2xFS5
<i>designLINE</i> set	10 / 10		1 <b>3 842 551 603</b>	2xFS5
Bracket (standard)	10		100 <b>3 842 528 967</b>	
Cover cap, signal gray			100 <b>3 842 548 854</b>	
Cover cap, black			20 <b>3 842 548 855</b>	

Material: Bracket Diecast aluminum  
*designLINE* bracket: painted (RAL 9006)  
 Cover cap: PP  
 Fastening material: Steel; zinc-plated

Scope of delivery: Set incl. fastening material (FS)

Type				
40x40	3000 N	55 Nm	145 Nm	35 Nm

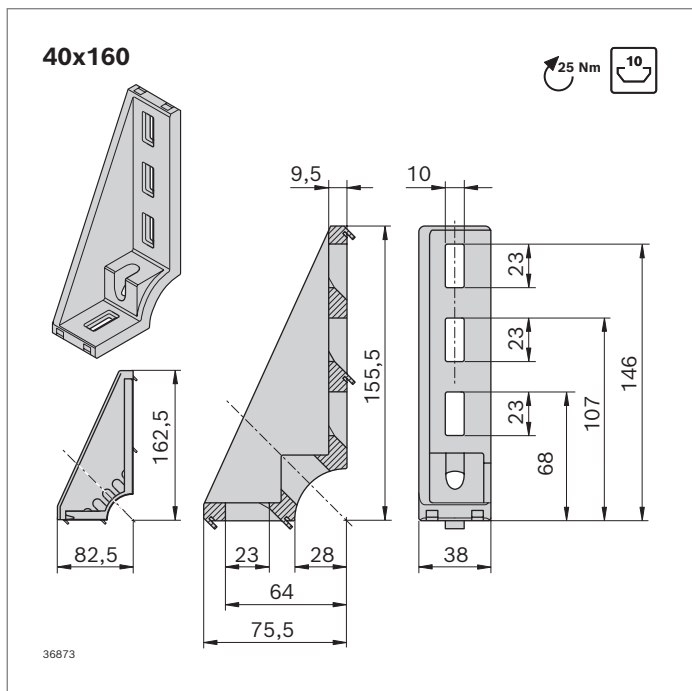
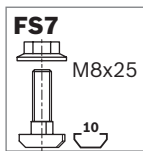




Type	$F_{max}$	$M_{max}$	$M_{max}$	$M_{max}$
40x80	6000 N	180 Nm	400 Nm	60 Nm

40x80	Slot	ESD	No.	FS
Set (standard)	10 / 10	⚠	1 3 842 529 386	4xFS7
<i>designLINE</i> set	10 / 10	⚠	1 3 842 551 604	4xFS7
Bracket (standard)	10	⚠	20 3 842 529 005	
Cover cap, signal gray			20 3 842 548 856	
Cover cap, black		⚠	20 3 842 548 857	

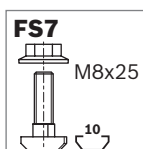
Material: Bracket Diecast aluminum  
*designLINE* bracket: painted (RAL 9006)  
 Cover cap: PP  
 Fastening material: Steel; zinc-plated  
 Scope of delivery: Set incl. fastening material (FS)

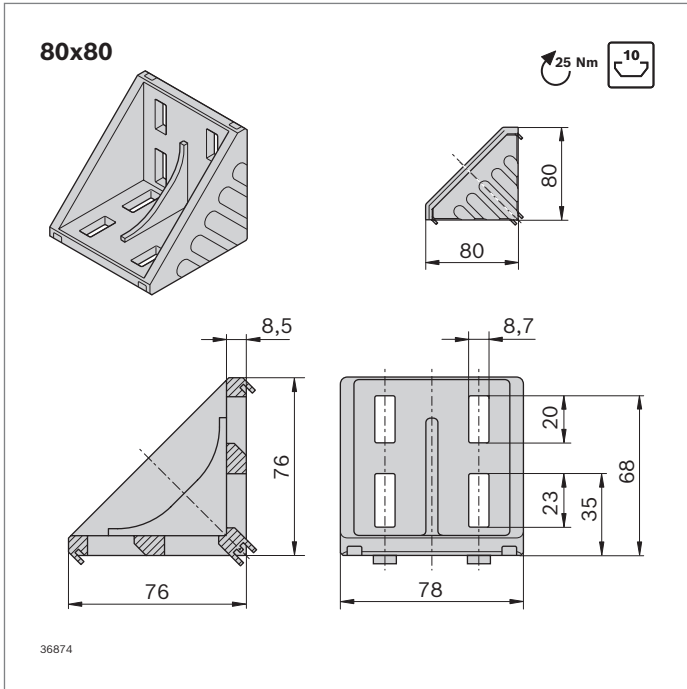


Type	$F_{max}$	$M_{max}$	$M_{max}$
40x160	9000 N	250 Nm	60 Nm

40x160	Slot	ESD	No.	FS
<i>designLINE</i> set	10 / 10	⚠	1 3 842 551 605	2x FS7
Bracket (standard)	10	⚠	20 3 842 529 006	
Cover cap, signal gray			20 3 842 548 858	
Cover cap, black		⚠	20 3 842 548 859	

Material: Bracket Diecast aluminum  
*designLINE* bracket: painted (RAL 9006)  
 Cover cap: PP  
 Fastening material: Steel; zinc-plated  
 Scope of delivery: Set incl. fastening material (FS)

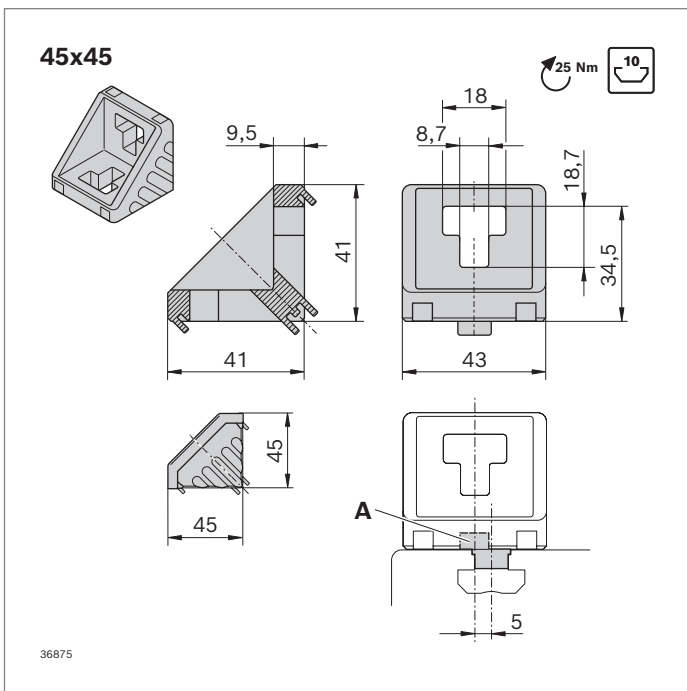
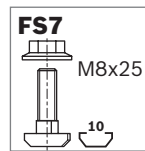




80x80	Slot	ESD	No.	FS
Set (standard)	10 / 10	⚡	1 3 842 530 360	8xFS7
<i>designLINE</i> set	10 / 10	⚡	1 3 842 551 612	8xFS7
Bracket (standard)	10	⚡	20 3 842 530 231	
Cover cap, signal gray			20 3 842 548 860	
Cover cap, black		⚡	20 3 842 548 861	

Material: Bracket Diecast aluminum  
*designLINE* bracket: painted (RAL 9006)  
 Cover cap: PP  
 Fastening material: Steel; zinc-plated  
 Scope of delivery: Set incl. fastening material (FS)

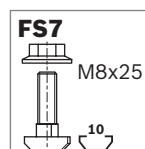
Type	$F_{max}$	$M_{max}$	$M_{max}$	$M_{max}$
80x80	14000 N	500 Nm	1000 Nm	400 Nm

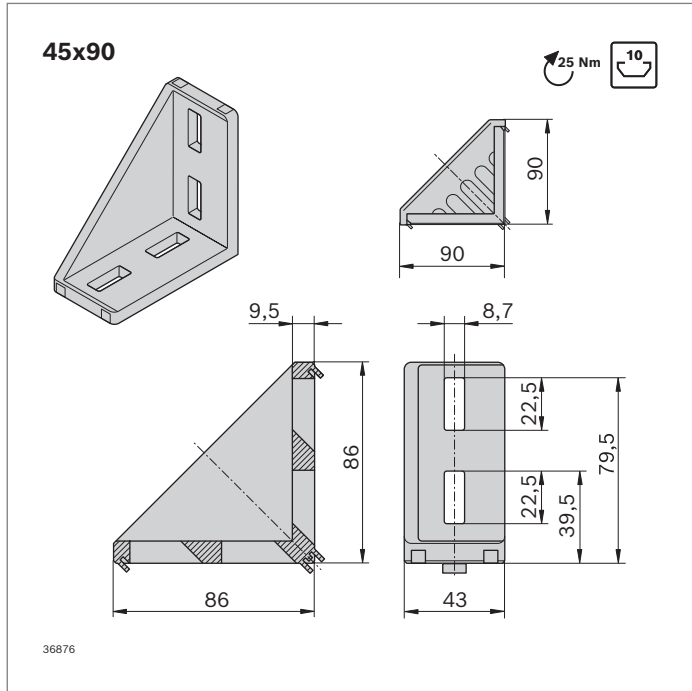


45x45	Slot	ESD	No.	FS
Set (standard)	10 / 10	⚡	1 3 842 523 561	2xFS7
<i>designLINE</i> set	10 / 10	⚡	1 3 842 551 606	2xFS7
Bracket (standard)	10	⚡	100 3 842 523 558	
Cover cap, signal gray			100 3 842 548 862	
Cover cap, black		⚡	20 3 842 548 863	
Sliding block, offset (A)	10		100 3 842 523 593	

Material: Bracket Diecast aluminum  
*designLINE* bracket: painted (RAL 9006)  
 Sliding block, offset: PA; black  
 Cover cap: PP  
 Fastening material: Steel; zinc-plated  
 Scope of delivery: Set incl. fastening material (FS)

Type	$F_{max}$	$M_{max}$	$M_{max}$	$M_{max}$
45x45	3000 N	60 Nm	160 Nm	-

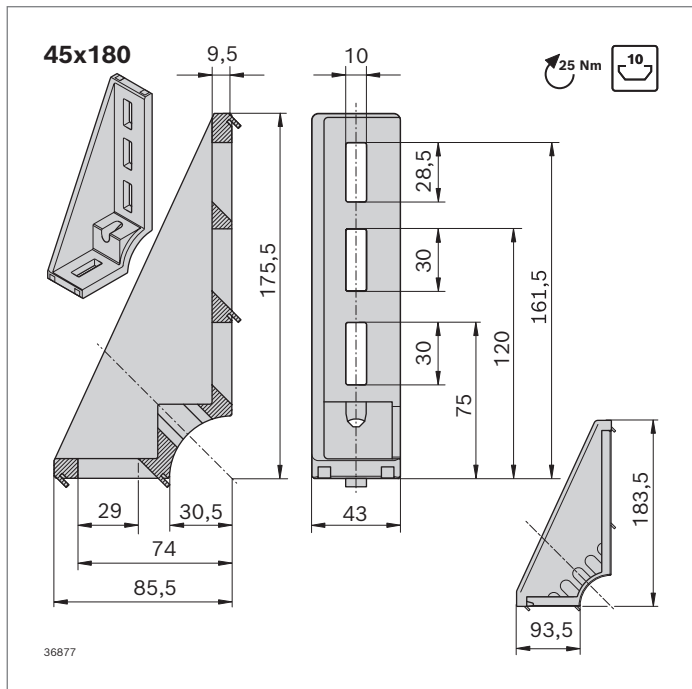
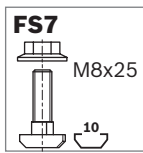




Type	$F_{max}$	$M_{max}$	$M_{max}$	$M_{max}$
45x90	6000 N	180 Nm	400 Nm	60 Nm

45x90	Slot	ESD	No.	FS
Set (standard)	10 / 10		1	<b>3 842 523 570</b> 4xFS7
<i>designLINE</i> set	10 / 10		1	<b>3 842 551 607</b> 4xFS7
Bracket (standard)	10		100	<b>3 842 523 567</b>
Cover cap, signal gray			20	<b>3 842 548 864</b>
Cover cap, black			20	<b>3 842 548 865</b>

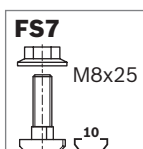
Material: Bracket Diecast aluminum  
*designLINE* bracket: painted (RAL 9006)  
 Cover cap: PP  
 Fastening material: Steel; zinc-plated  
 Scope of delivery: Set incl. fastening material (FS)

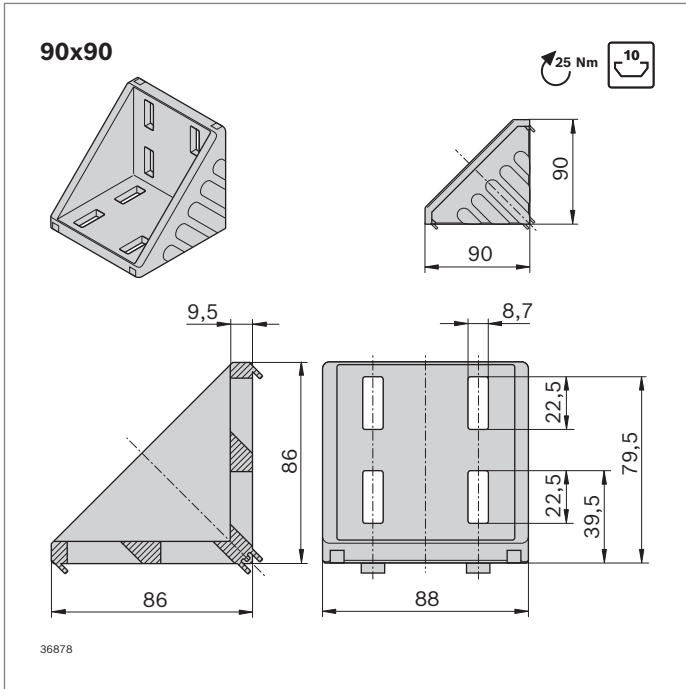


Type	$F_{max}$	$M_{max}$	$M_{max}$
45x180	9000 N	250 Nm	65 Nm

45x180	Slot	ESD	No.	FS
<i>designLINE</i> set	10 / 10		1	<b>3 842 551 608</b> 2xFS7
Bracket (standard)	10		20	<b>3 842 523 583</b>
Cover cap, signal gray			20	<b>3 842 548 866</b>
Cover cap, black			20	<b>3 842 548 867</b>

Material: Bracket Diecast aluminum  
*designLINE* bracket: painted (RAL 9006)  
 Cover cap: PP  
 Fastening material: Steel; zinc-plated  
 Scope of delivery: Set incl. fastening material (FS)

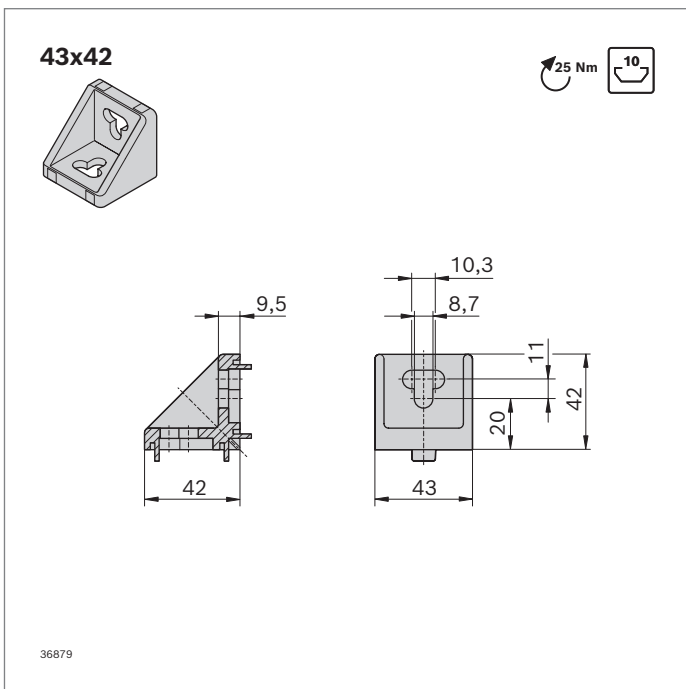
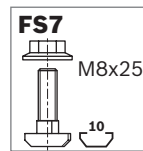




90x90	Slot	ESD	No.	FS
Set (standard)	10 / 10		1 <b>3 842 523 578</b>	8xFS7
<i>designLINE</i> set	10 / 10		1 <b>3 842 551 613</b>	8xFS7
Bracket (standard)	10		20 <b>3 842 523 575</b>	
Cover cap, signal gray			20 <b>3 842 548 868</b>	
Cover cap, black			20 <b>3 842 548 869</b>	

Material: Bracket Diecast aluminum  
*designLINE* bracket: painted (RAL 9006)  
 Cover cap: PP  
 Fastening material: Steel; zinc-plated  
 Scope of delivery: Set incl. fastening material (FS)

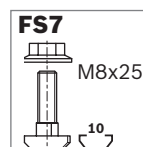
Type				
90x90	12000 N	370 Nm	800 Nm	200 Nm

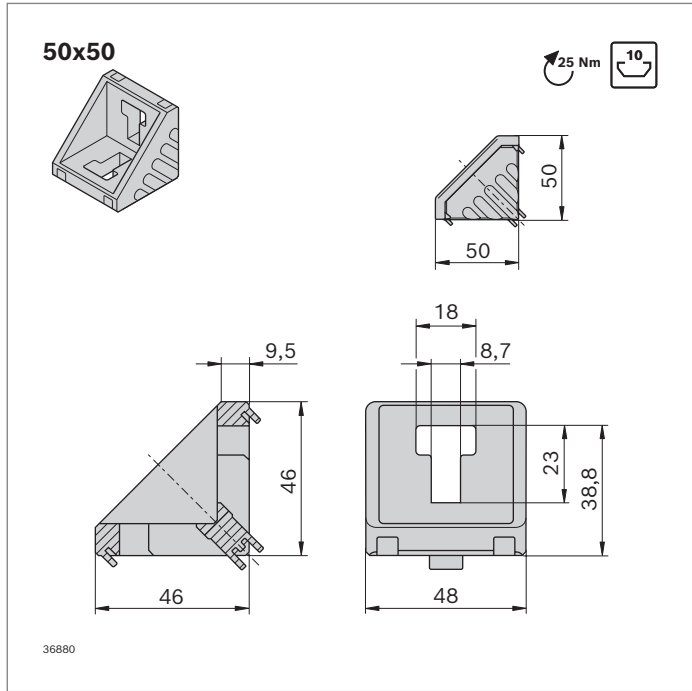


43x42	Slot	ESD	No.	FS
Set (standard)	10 / 10		1 <b>3 842 352 009</b>	2xFS7
Bracket (standard)	10		100 <b>3 842 348 526</b>	

Material: Bracket Diecast aluminum  
 Fastening material: Steel; zinc-plated  
 Scope of delivery: Set incl. fastening material (FS)

Type				
43x42	2000 N	-	160 Nm	-

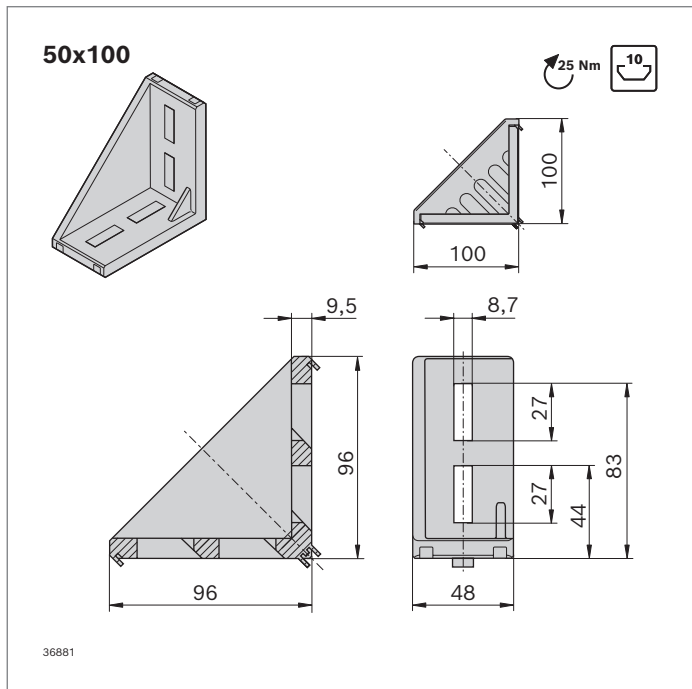
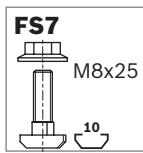




Type				
50x50	4000 N	125 Nm	250 Nm	38 Nm

50x50	Slot	ESD		No.	FS
Set (standard)	10 / 10		1	<b>3 842 530 259</b>	2xFS7
Bracket (standard)	10		20	<b>3 842 530 381</b>	
Cover cap, signal gray			20	<b>3 842 548 870</b>	
Cover cap, black			20	<b>3 842 548 871</b>	

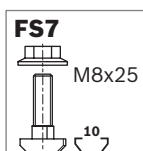
Material: Bracket Diecast aluminum  
 Cover cap: PP  
 Fastening material: Steel; zinc-plated  
 Scope of delivery: Set incl. fastening material (FS)

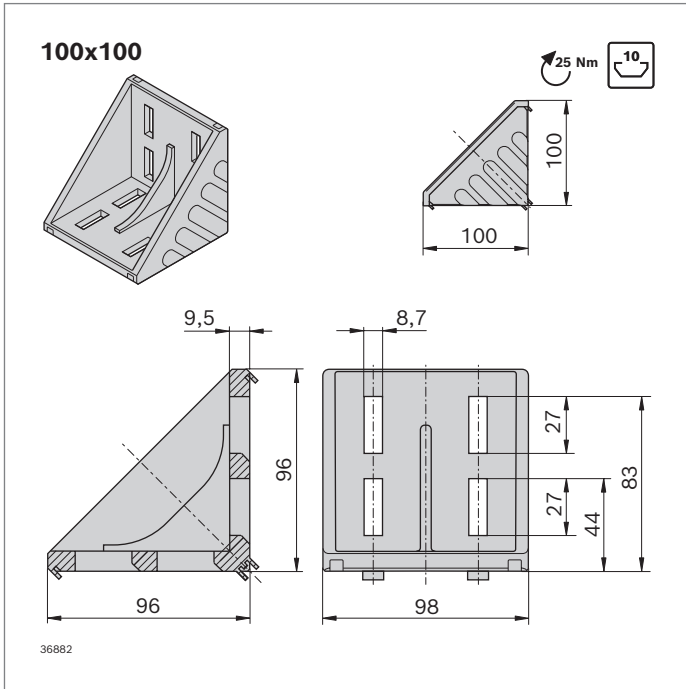


Type				
50x100	7500 N	300 Nm	600 Nm	73 Nm

50x100	Slot	ESD		No.	FS
Set (standard)	10 / 10		1	<b>3 842 530 260</b>	4xFS7
Bracket (standard)	10		20	<b>3 842 530 382</b>	
Cover cap, signal gray			20	<b>3 842 548 872</b>	
Cover cap, black			20	<b>3 842 548 873</b>	

Material: Bracket Diecast aluminum  
 Cover cap: PP  
 Fastening material: Steel; zinc-plated  
 Scope of delivery: Set incl. fastening material (FS)



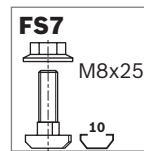


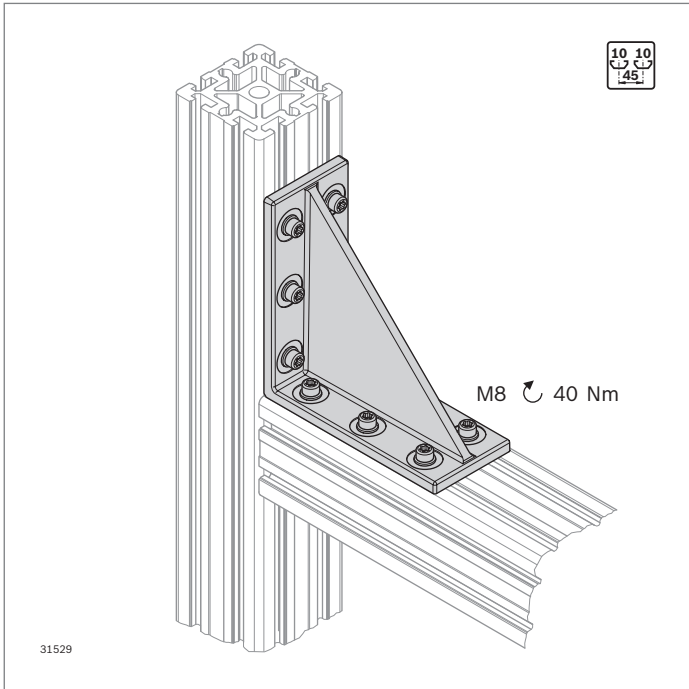
100x100	Slot	ESD	ESD	No.	FS
Set (standard)	10 / 10	⚡	1	<b>3 842 530 361</b>	8xFS7
Bracket (standard)	10	⚡	20	<b>3 842 530 460</b>	
Cover cap, signal gray			20	<b>3 842 548 874</b>	
Cover cap, black		⚡	20	<b>3 842 548 875</b>	

Material: Bracket Diecast aluminum  
 Cover cap: PP  
 Fastening material: Steel; zinc-plated  
 Scope of delivery: Set incl. fastening material (FS)

3

Type				
100x100	15000 N	550 Nm	1100 Nm	480 Nm





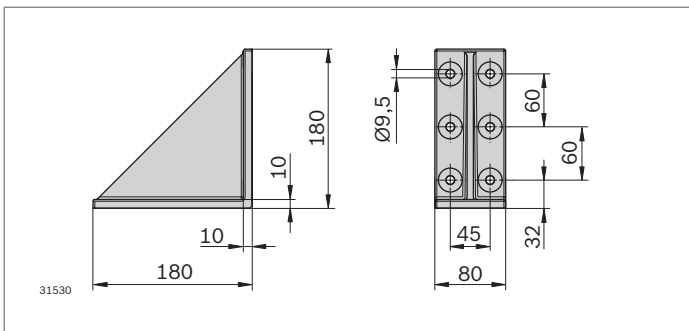
## Heavy-duty connector 180x180 dynamic load



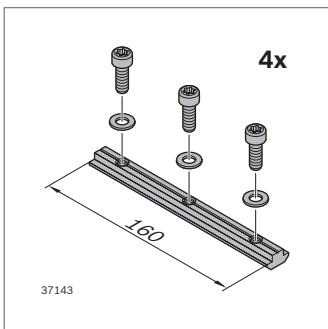
- ▶ Heavy-duty connector for reliable absorption of high forces
- ▶ Can be used for both static and dynamic forces
- ▶ Connection possible in any position
- ▶ Profile finishing: Not required
- ▶ Calculation program for static and dynamic forces included in MTpro planning software
- ▶ Focus profile: 90x90, 90x180, 90x360

Required accessories:

Mounting kit



Type	$F_{max}$	$M_{max}$	$M_{max}$	$M_{max}$
180x180	30000 N	5600 Nm	5600 Nm	1400 Nm



Slot	$F_{max}$
10 (M8)	6000 ... 18000 N

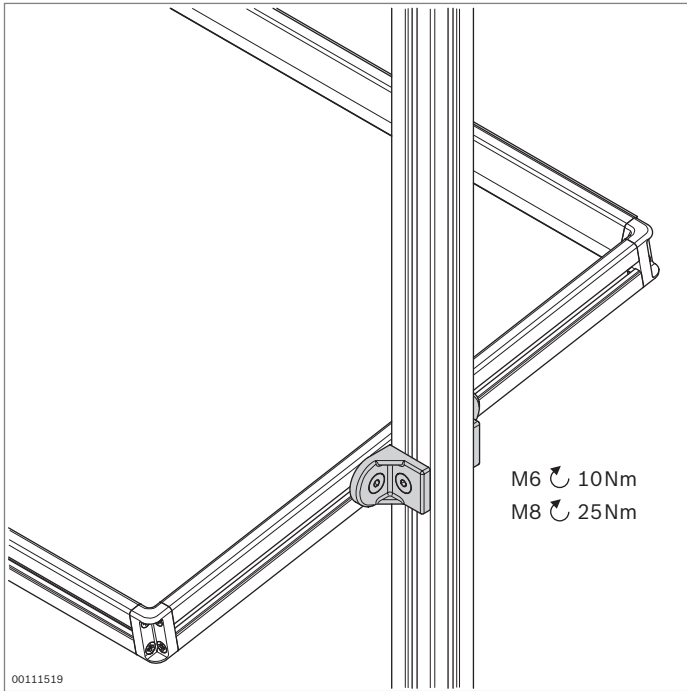
### Mounting kit

- ▶ For connecting a heavy-duty angle to a profile
- ▶ Set consists of 4 sliding blocks and 12 screws with washers

Mounting kit	Slot	M	ESD	No.
	10	8		Set 3 842 548 955

Material: Screws: Steel; zinc-plated  
Sliding block: Steel; zinc-plated

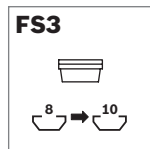
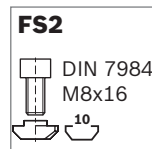
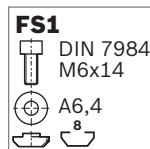
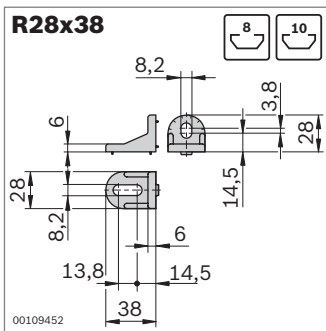
Scope of delivery: 4 x sliding blocks, 12 x washers,  
12 x screws M8 10.9 microencapsulated



## Bracket R

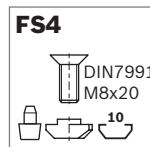
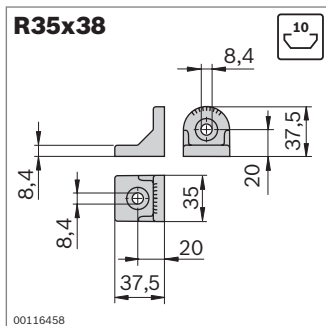


- ▶ For connecting profiles at any angle
- ▶ No interfering edges thanks to rounded bracket
- ▶ Brackets with centering lugs for rapid, precise assembly with protection against turning
- ▶ Centering lugs can be easily broken off for assembly on plates or at right angles to the slot
- ▶ *designLINE* version with special silver paint (RAL 9006) for an attractive, high-quality design
- ▶ Profile finishing: Not required



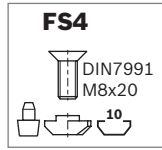
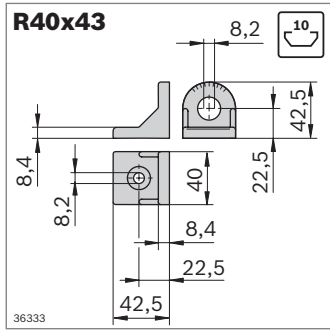
R28x38	Slot	ESD	No.	FS
Set (standard)	8 / 10		1 <b>3 842 515 547</b>	FS1, FS2, 2xFS3
	10 / 10		1 <b>3 842 521 580</b>	2xFS2, 4xFS3
<i>designLINE</i> set	8 / 10		1 <b>3 842 538 703</b>	FS1, FS2, 2xFS3
	10 / 10		1 <b>3 842 538 704</b>	2xFS2, 4xFS3
Bracket (standard)	8 / 10		100 <b>3 842 515 473</b>	

Material: Bracket Diecast zinc  
*designLINE* bracket: painted (RAL 9006)  
 Intermediate element: PA; black  
 Fastening material: Steel; zinc-plated  
 Scope of delivery: Set incl. fastening material (FS)



R35x38	Slot	ESD	No.	FS
Set (standard)	10 / 10		1 <b>3 842 532 274</b>	2xFS4
<i>designLINE</i> set	10 / 10		1 <b>3 842 538 705</b>	2xFS4
Bracket (standard)	10		100 <b>3 842 529 020</b>	

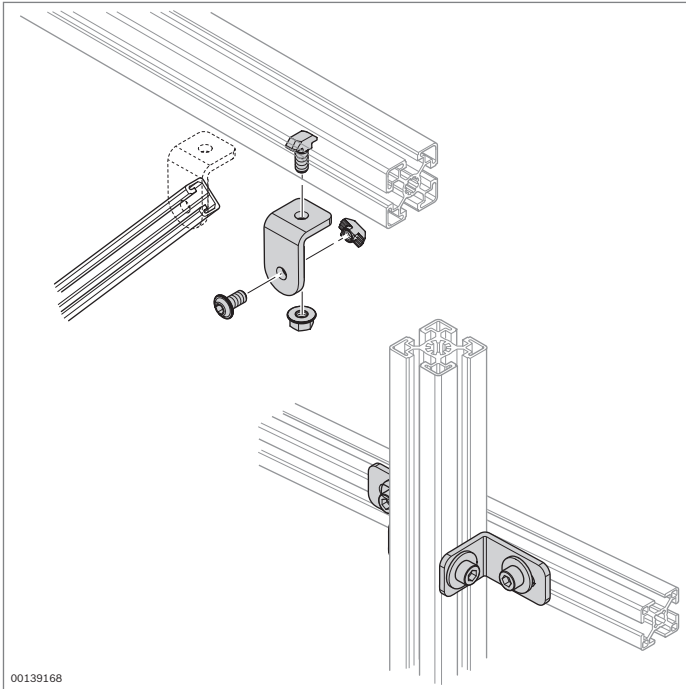
Material: Bracket Diecast aluminum  
*designLINE* bracket: painted (RAL 9006)  
 Centering bolts: PA6; black  
 Fastening material: Steel; zinc-plated  
 Scope of delivery: Set incl. fastening material (FS)



R40x43	Slot	ESD		No.	FS
Set (standard)	10 / 10		1	<b>3 842 518 424</b>	2xFS4
<i>designLINE</i> set	10 / 10		1	<b>3 842 538 706</b>	2xFS4
Bracket (standard)	10		100	<b>3 842 504 760</b>	

Material: Bracket Diecast zinc  
*designLINE* bracket: painted (RAL 9006)  
 Centering bolts: PA6; black  
 Fastening material: Steel; zinc-plated

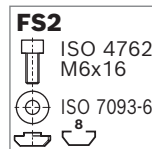
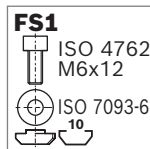
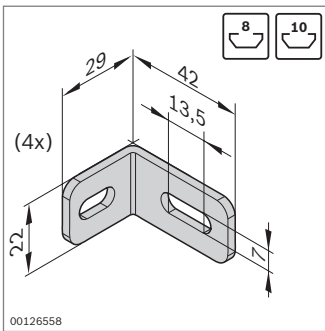
Scope of delivery: Set incl. fastening material (FS)



### Steel bracket

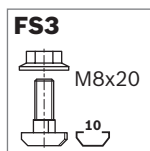
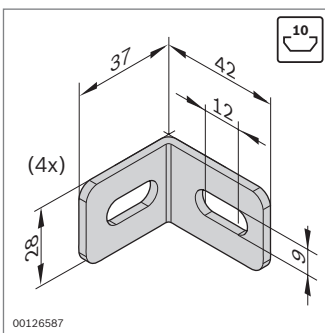


- ▶ Steel bracket without centering lugs for fastening at any angle
- ▶ Profile finishing: Not required



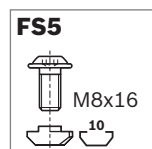
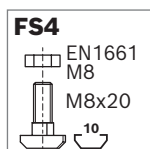
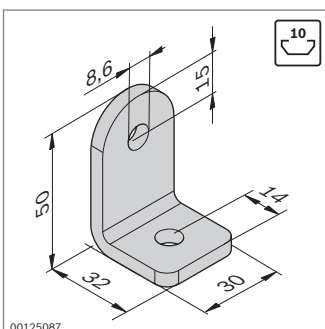
Bracket set	Slot	ESD	No.	FS
	8 / 10		4	<b>3 842 537 862</b> 4xFS1, 4xFS2

Material: Steel; zinc-plated  
Fastening material: Steel; zinc-plated  
Scope of delivery: Set incl. fastening material (FS)



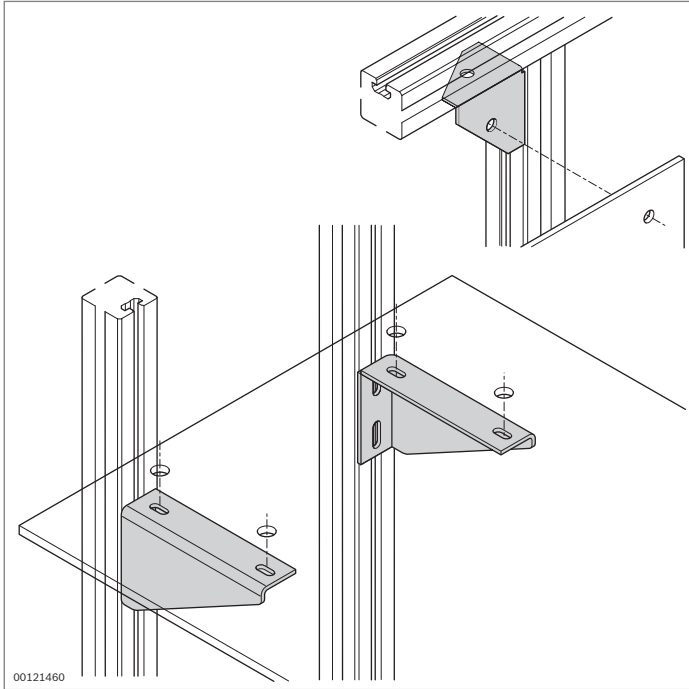
Bracket set	Slot	ESD	No.	FS
	10 / 10		4	<b>3 842 537 861</b> 8xFS3

Material: Steel; zinc-plated  
Fastening material: Steel; zinc-plated  
Scope of delivery: Set incl. fastening material (FS)



Bracket set	Slot	ESD	No.	FS
	10 / 10		20	<b>3 842 536 729</b> FS4, FS5

Material: Steel; zinc-plated  
Fastening material: Steel; zinc-plated  
Scope of delivery: Set incl. fastening material (FS)



## Metal bracket Supporting bracket

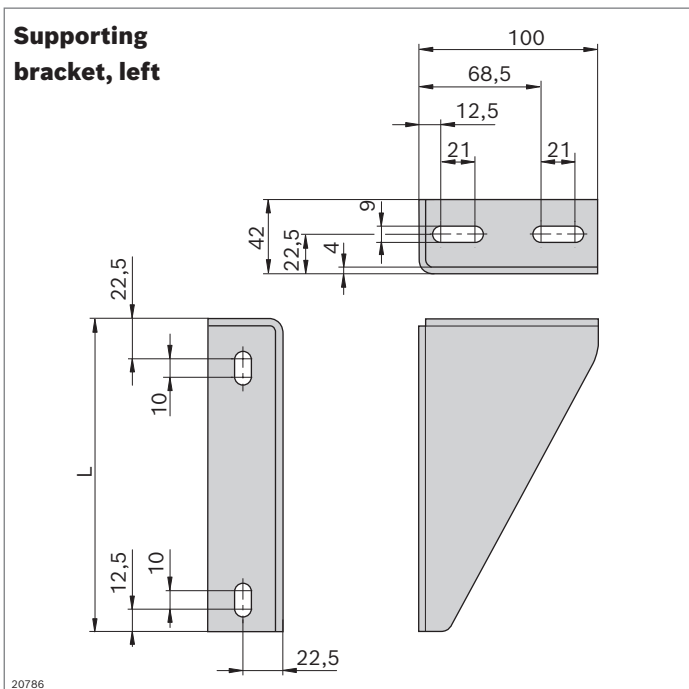
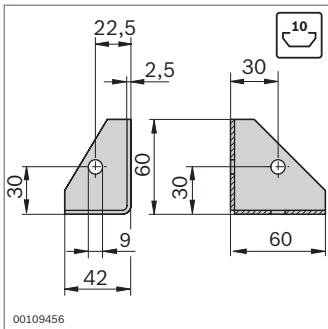


### Metal bracket

- ▶ Metal bracket for right-angled profile connections
- ▶ Screw fitting of panel elements in the stiffening fin bore
- ▶ Profile finishing: Not required

### Supporting bracket

- ▶ Supporting bracket for fastening panel elements to profiles, e.g. for shelves
- ▶ Profile finishing: Not required



Metal bracket	ESD	No.
	20	3 842 146 813

Material: Sheet steel; zinc-plated

Required accessories:

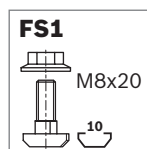
- ▶ T-bolt M8x20, 10 mm slot, **3 842 528 715** (p. 3-6)
- ▶ Flange nut M8, **3 842 345 081** (p. 3-6)

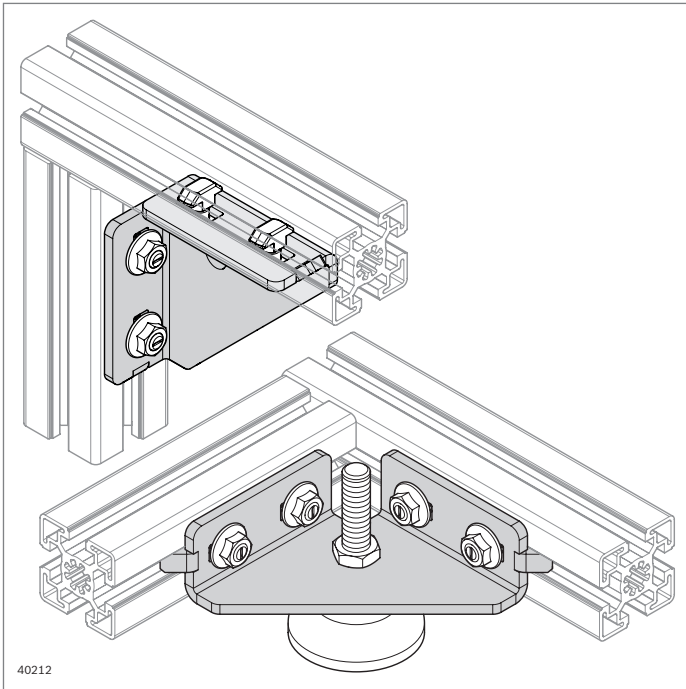
Supporting bracket	L (mm)	ESD	No.	FS
left	255	20	<b>3 842 536 119</b>	2xFS1
	335	20	<b>3 842 536 121</b>	2xFS1
	415	20	<b>3 842 536 123</b>	2xFS1
	495	20	<b>3 842 536 125</b>	2xFS1
right	255	20	<b>3 842 536 120</b>	2xFS1
	335	20	<b>3 842 536 122</b>	2xFS1
	415	20	<b>3 842 536 124</b>	2xFS1
	495	20	<b>3 842 536 126</b>	2xFS1

Material: Sheet steel; powder-coated, RAL 7037

Fastening material: Steel; zinc-plated

Scope of delivery: Incl. fastening material (FS)



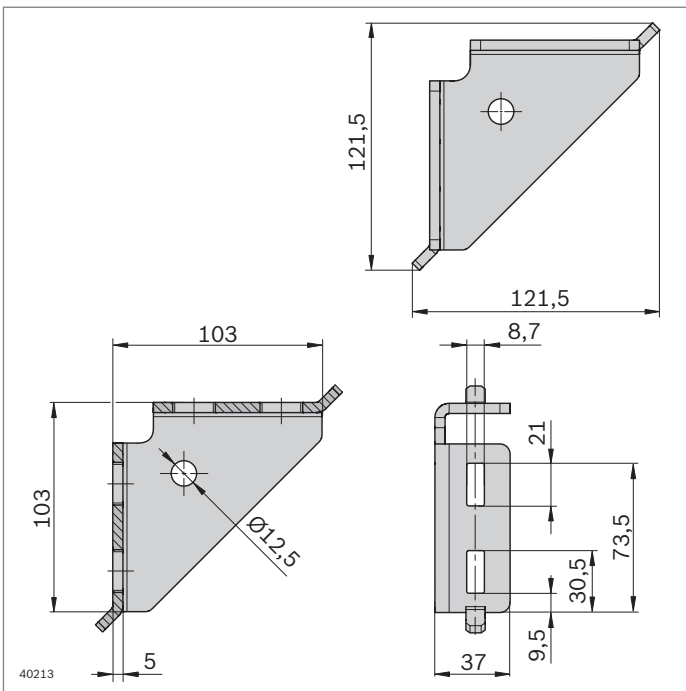


40212

### Metal bracket



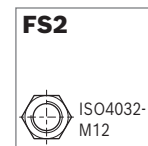
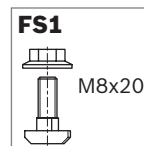
- ▶ Fastening of leveling feet offset inwards and wheels with M12 thread
- ▶ Metal bracket for right-angled profile connections
- ▶ Screw fitting of panel elements in the stiffening fin bore
- ▶ Profile finishing: Not required

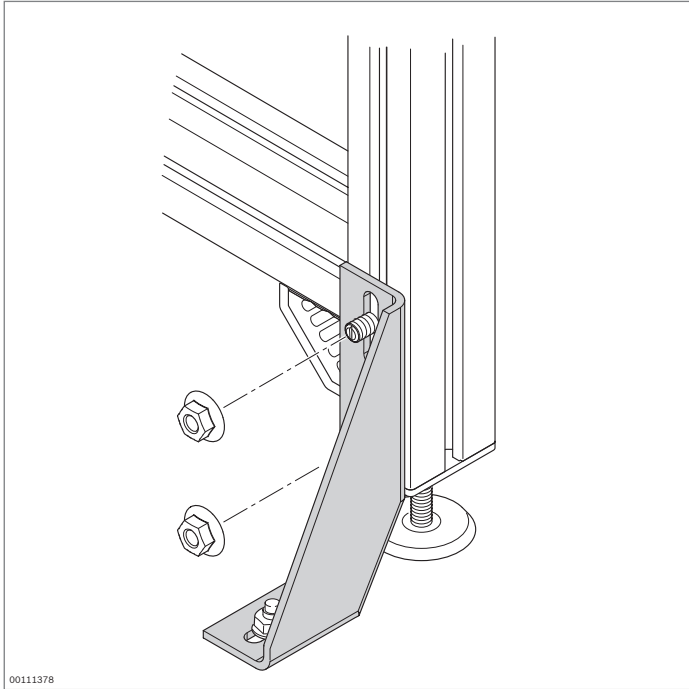


40213

Metal bracket 103x103x37	ESD No.	FS
	3 842 564 154	4xFS1, 1xFS2

Material: Sheet steel; zinc-plated  
 Scope of delivery: Incl. Fastening material





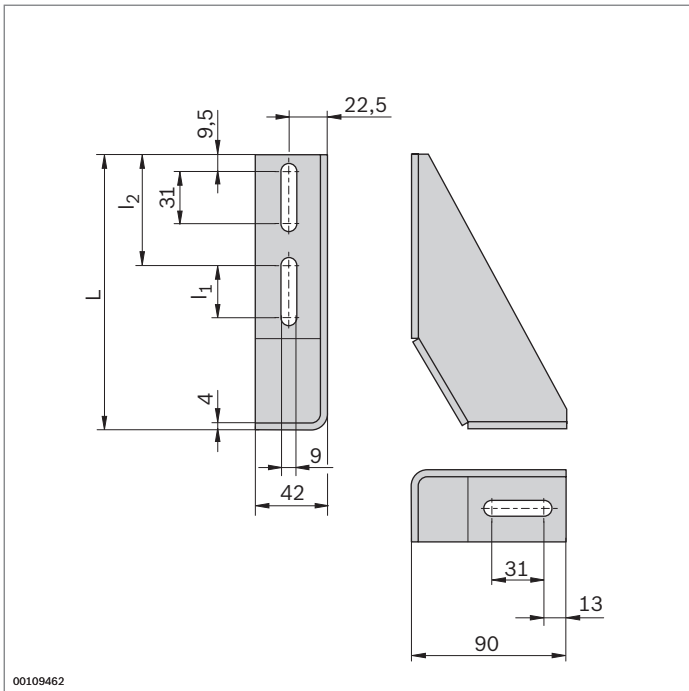
## Foundation bracket



- ▶ Foundation bracket for securing frames to the floor
- ▶ The drilled hole for the floor dowel can be created without removing the foundation bracket
- ▶ Profile finishing: Not required

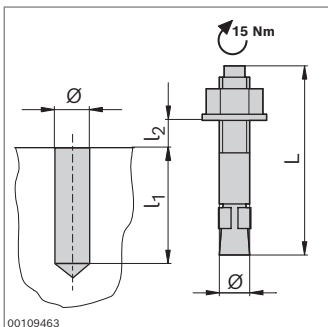
Required accessories:

- ▶ T-bolt M8x20, 10 mm slot, **3 842 528 715** (p. 3-6)
- ▶ Flange nut M8, **3 842 345 081** (p. 3-6)
- ▶ Floor dowel



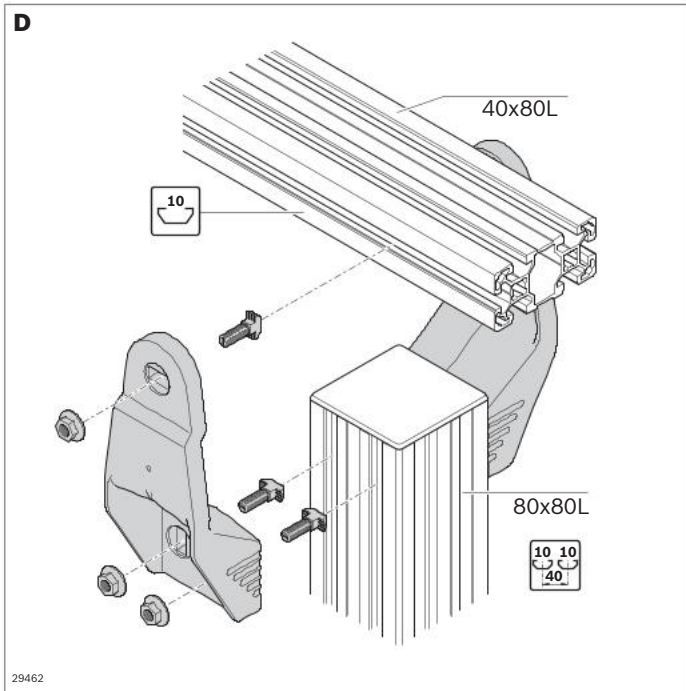
Foundation bracket	L (mm)	l <sub>1</sub> (mm)	l <sub>2</sub> (mm)	No.
	160	31	64.5	20 <b>3 842 146 815</b>
	210	91	54.5	20 <b>3 842 146 848</b>

Material: Sheet steel; zinc-plated



Floor dowel	ø (mm)	L (mm)	l <sub>1</sub> (mm)	l <sub>2 max</sub> (mm)	No.
	8	80	65	15	100 <b>3 842 526 560</b>

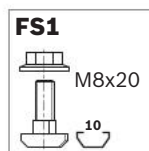
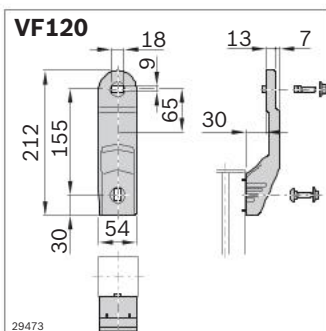
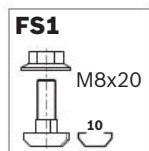
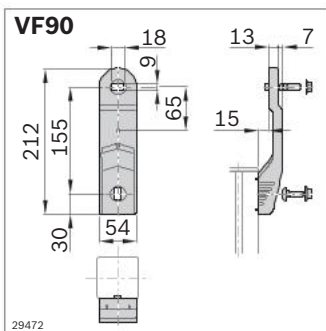
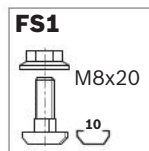
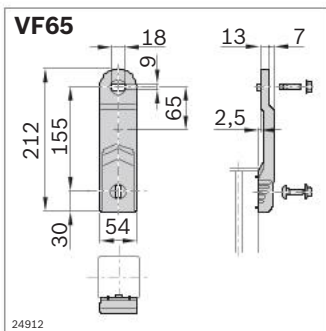
Material: Steel; zinc-plated



### Holder AL



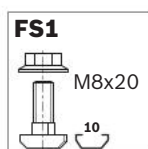
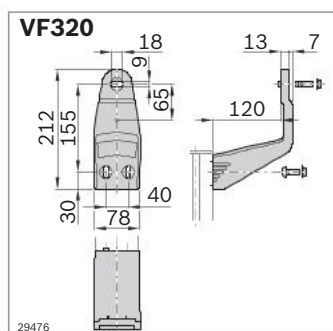
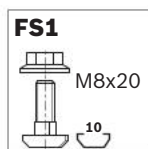
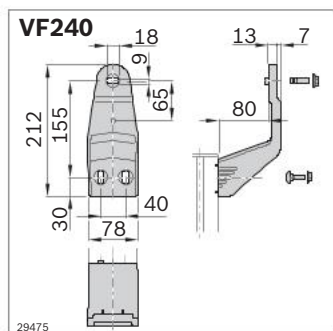
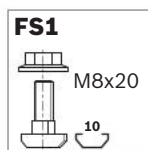
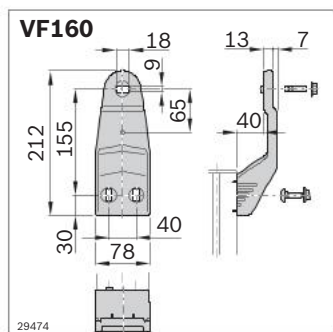
- ▶ For connecting profiles at right-angles to each other and with defined spacing, e.g. for floor supports made of 80x80L or 60x60 profiles
- ▶ Longitudinal connection possible in all profiles with 10 mm slot
- ▶ Transverse connection possible with 40 mm slot spacing
- ▶ Profile finishing: Not required



Holder	No.	FS
<b>VFplus 65</b>	Set <b>3 842 546 625</b>	4xFS1
Material:	Holder: Diecast aluminum; powder-coated (RAL 9006) Fastening material: Steel; zinc-plated	
Scope of delivery:	2 x holder, fastening material (FS)	

Holder	No.	FS
<b>VFplus 90</b>	Set <b>3 842 546 626</b>	4xFS1
Material:	Holder: Diecast aluminum; powder-coated (RAL 9006) Fastening material: Steel; zinc-plated	
Scope of delivery:	2 x holder, fastening material (FS)	

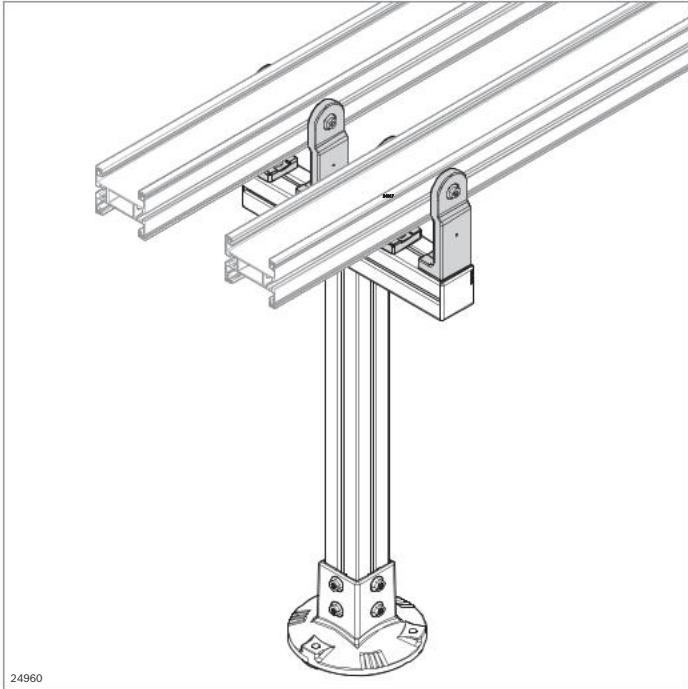
Holder	No.	FS
<b>VFplus 120</b>	Set <b>3 842 546 627</b>	4xFS1
Material:	Holder: Diecast aluminum; powder-coated (RAL 9006) Fastening material: Steel; zinc-plated	
Scope of delivery:	2 x holder, fastening material (FS)	



Holder	No.	FS
<b>VFplus 160</b>	Set <b>3 842 546 628</b>	6xFS1
Material:	Holder: Diecast aluminum; powder-coated (RAL 9006) Fastening material: Steel; zinc-plated	
Scope of delivery:	2 x holder, fastening material (FS)	

Holder	No.	FS
<b>VFplus 240</b>	Set <b>3 842 546 629</b>	6xFS1
Material:	Holder: Diecast aluminum; powder-coated (RAL 9006) Fastening material: Steel; zinc-plated	
Scope of delivery:	2 x holder, fastening material (FS)	

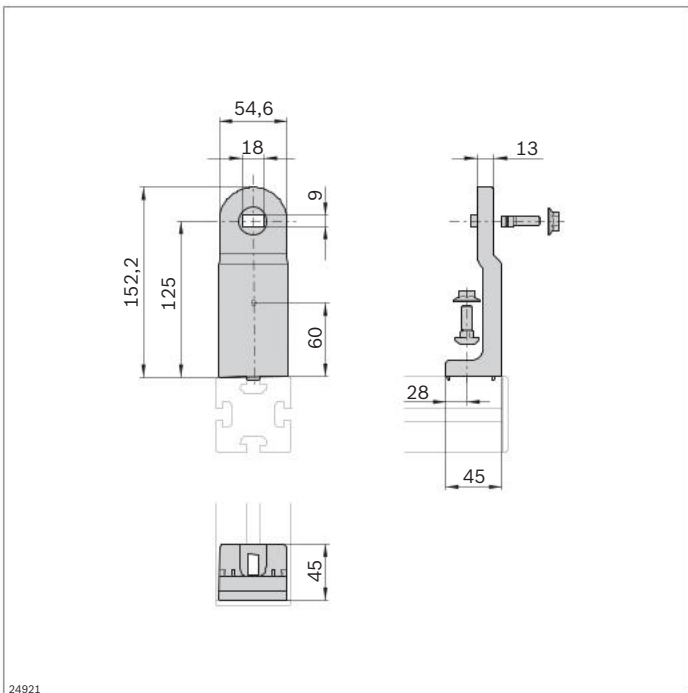
Holder	No.	FS
<b>VFplus 320</b>	Set <b>3 842 546 630</b>	6xFS1
Material:	Holder: Diecast aluminum; powder-coated (RAL 9006) Fastening material: Steel; zinc-plated	
Scope of delivery:	2 x holder, fastening material (FS)	



### Supporting bracket AL



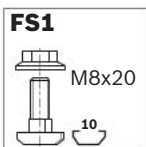
- ▶ Supporting bracket for connecting two profiles with defined spacing (approx. 2–3 m)
- ▶ Profile finishing: Not required
- ▶ Centering lugs make centering the supporting brackets in the slot easy
- ▶ If the centering lugs are removed, the supporting bracket can also be used for upward and downward sloping sections (up to approx. 45° depending on the return chain)
- ▶ Very simple assembly thanks to pluggable screwed connection
- ▶ Easy-to-clean design with draining surfaces

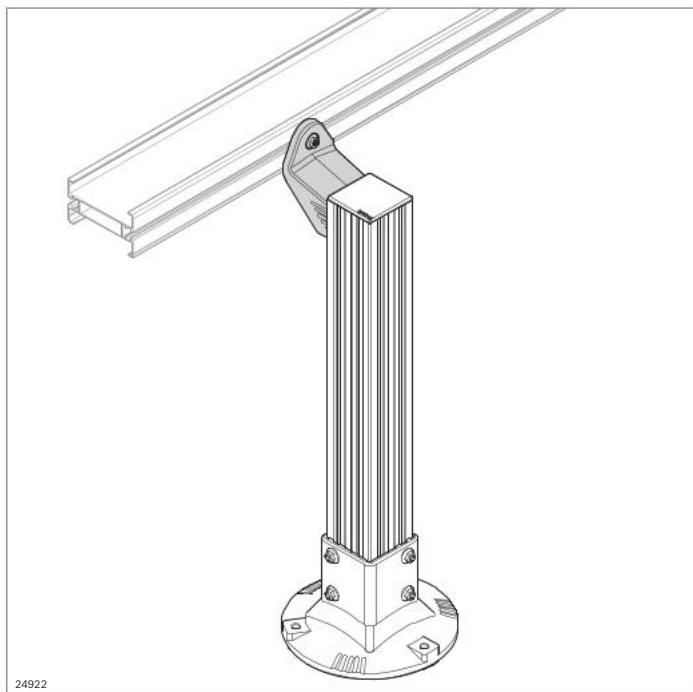


Supporting bracket VFplus AL	No.	FS
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Set **3 842 546 632** 4xFS1

Material: Holder: Diecast aluminum, silver  
Fastening material: Steel; zinc-plated  
Scope of delivery: Incl. 2x holder; fastening material (FS)

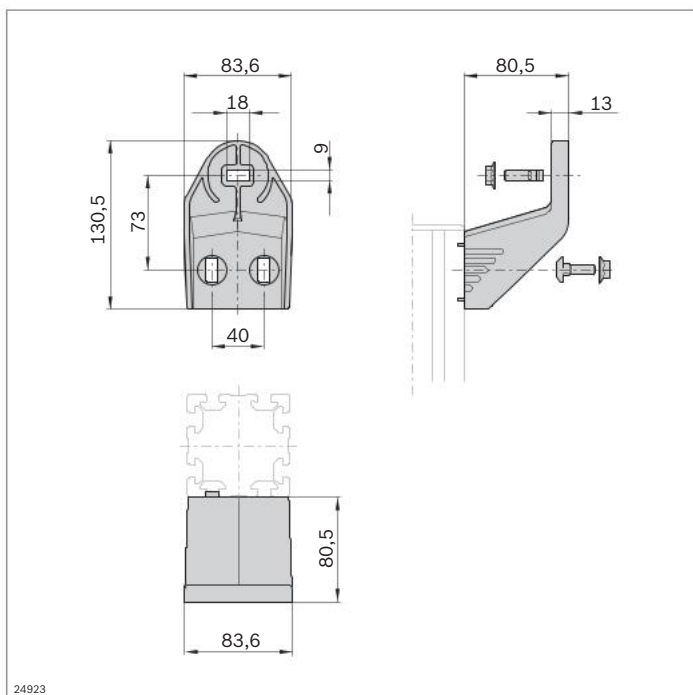




## Supporting bracket AL, lateral

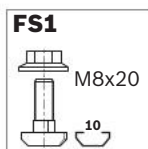


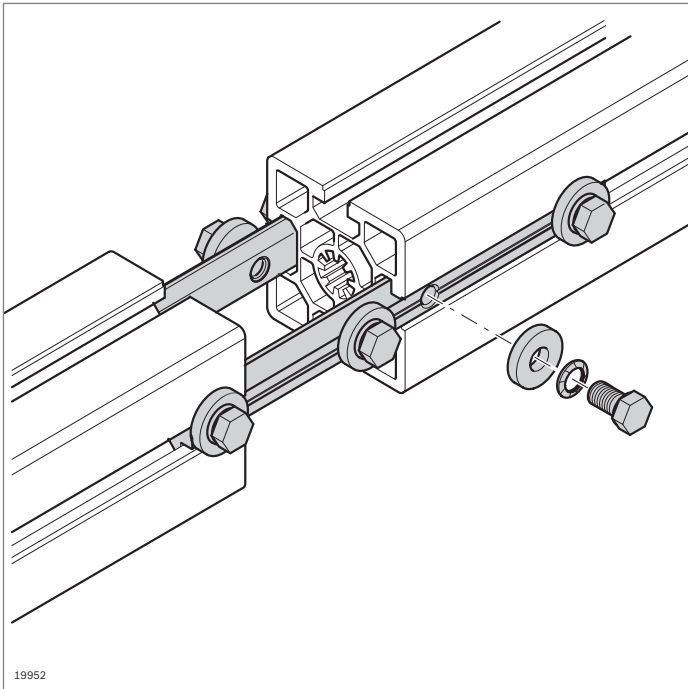
- ▶ Supporting bracket for connecting two profiles with defined spacing (approx. 2–3 m)
- ▶ Profile finishing: Not required
- ▶ Centering lugs make centering the supporting brackets in the slot easy
- ▶ If the centering lugs are removed, the supporting bracket can also be used for upward and downward sloping sections (up to approx. 45° depending on the return chain)
- ▶ Designed for attachment to a vertical 80x80 strut profile



Supporting bracket VFplus lateral AL	No.	FS
	Set	3 842 547 461 3xFS1

Material: Holder: Diecast aluminum; powder-coated (RAL 9006)  
 Fastening material: Steel; zinc-plated  
 Scope of delivery: Incl. fastening material (FS)

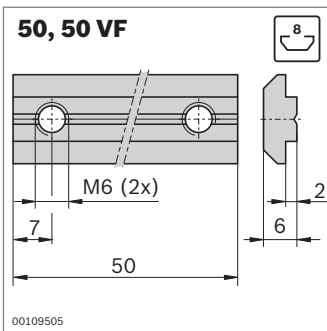




### Profile connector



- ▶ Profile connector for the end-face connection of any profiles
- ▶ For an especially strong connection: One profile connector per slot
- ▶ Profile finishing: Not required



Profile connector	⌚ (Nm)	Slot	🏠 No.	FS
<b>50 VF</b>	10	8	10 <b>3 842 536 787</b>	2xFS2
<b>50</b>	8.5	8	1 <b>3 842 518 427</b>	2xFS1

Material: Steel; zinc-plated; fastening material: Steel; zinc-plated

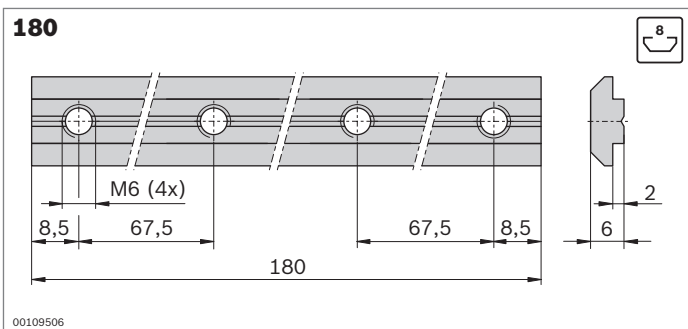
Scope of delivery: Incl. fastening material (FS)

**FS1**

ISO 4026  
M6x10

**FS2**

M6x8  
ISO 4762  
ISO 7089-6



Profile connector	⌚ (Nm)	Slot	No.	FS
<b>180</b>	10	8	8 <b>3 842 521 216</b>	4xFS3

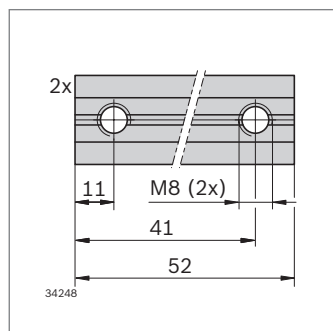
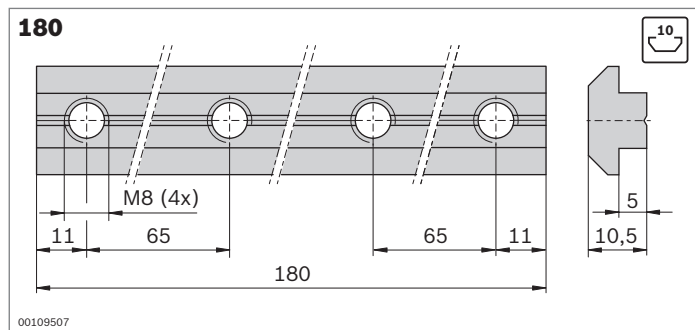
Material: Steel; zinc-plated; fastening material: Steel; zinc-plated

Scope of delivery: Incl. fastening material (FS)

**FS3**

ISO 4762  
M6x10

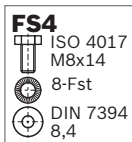
DIN 7349  
6,4



Profile connector	(Nm)	Slot	No.	FS
180	25	10	3 842 528 746	4xFS4

Material: Steel; zinc-plated; fastening material: Steel; zinc-plated

Scope of delivery: Incl. fastening material (FS)

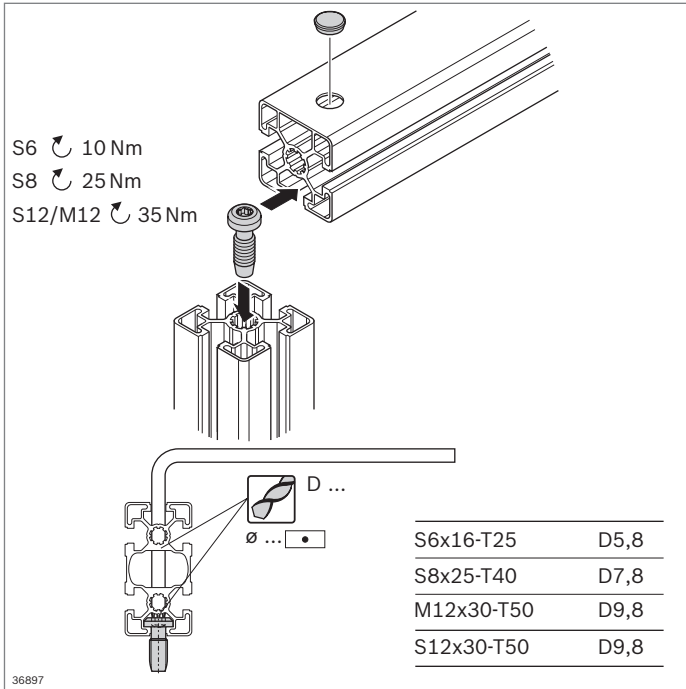


Connection kit	(Nm)	Slot	No.	FS
18	10	Set	3 842 529 881	4xFS5

Material: Steel; zinc-plated; fastening material: Steel; zinc-plated

Scope of delivery: Set consisting of 2 pieces  
incl. fastening material





### Central bolt, anti-torsion element, cover cap

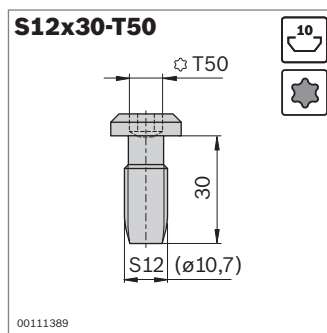
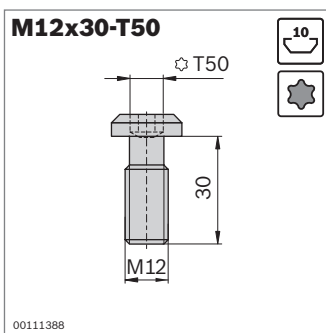
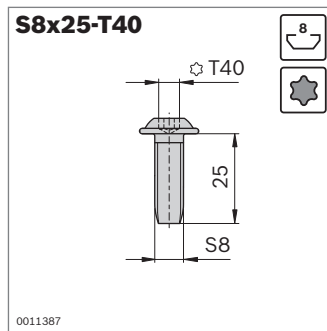
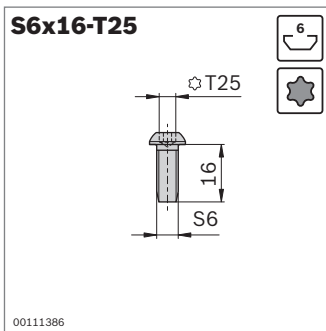


#### Central bolt

- ▶ Best-value connection element
- ▶ Self-tapping screw, can be mounted without profile finishing
- ▶ Profile finishing:
  - Thread cutting for M12x30 screw
  - Through-hole for screwdriver/offset screwdriver

Tools:

Offset screwdriver (p. 14-6)



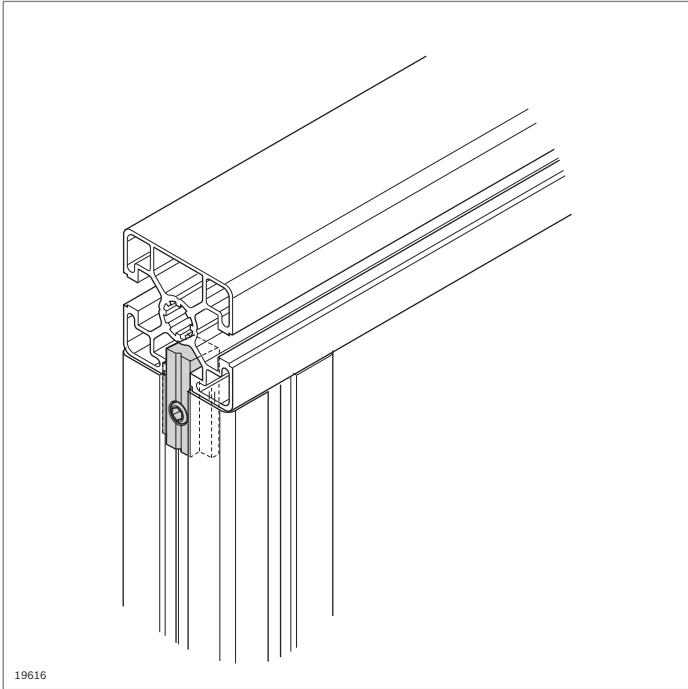
Central bolt	Slot	ESD	No.
S6x16-T25 (self-tapping)	6		100 3 842 528 593
S8x25-T40 (self-tapping)	8		100 3 842 527 174

Material: Steel; zinc-plated

Central bolt	Slot	ESD	No.
M12x30-T50	10		100 3 842 530 235
S12x30-T50 (self-tapping)	10		100 3 842 530 236

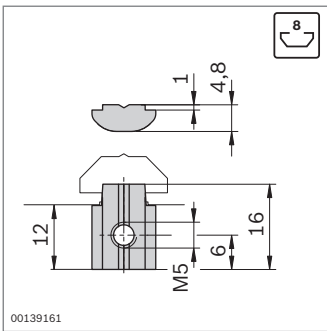
Material: Steel; zinc-plated

Size		
S6	500 N	8 Nm
S8	800 N	43 Nm
S12	1300 N	80 Nm
M12	3000 N	80 Nm



**Anti-torsion element**

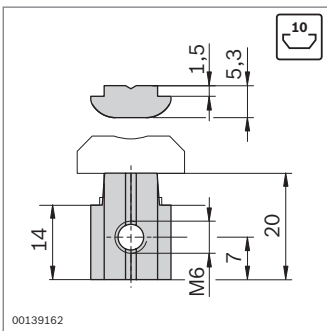
- ▶ Provides torsion resistance for profile connections with central bolts or quick connectors
- ▶ Subsequent installation in the connection possible




**FS1**



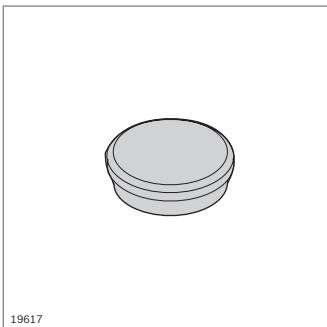
DIN 916  
M5x8



**FS2**



ISO 4029  
M6x12



Anti-torsion element	Slot	No.	FS
	8	10	<b>3 842 530 325</b> FS1

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

Anti-torsion element	Slot	No.	FS
	10	10	<b>3 842 530 326</b> FS2

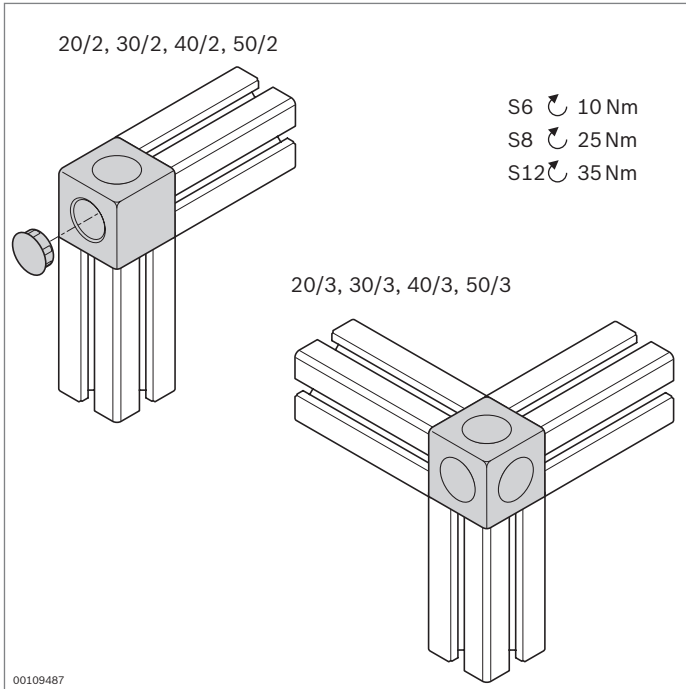
Material: Steel; zinc-plated  
Fastening material: Steel; zinc-plated

**Cover cap**

- ▶ For sealing through-holes in closed profiles

Cover cap	D (mm)	No.
	5.8	100 <b>3 842 551 032</b>
	7.8	100 <b>3 842 551 034</b>
	9.8	100 <b>3 842 551 036</b>

Material: TPE; signal gray RAL 7004

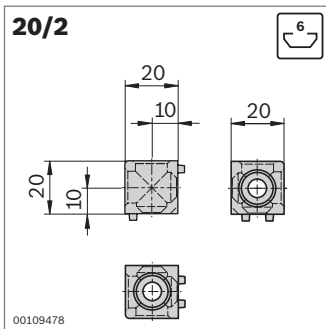


### Cubic connector

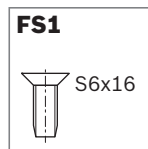


- ▶ For torsion-proof corner connections of profiles with equivalent cross-sections
- ▶ *designLINE* version with special silver paint (RAL 9006) for an attractive, high-quality design
- ▶ Cover caps to cover the openings
- ▶ Screw fitting on profile with self-tapping screws
- ▶ Profile finishing: Not required

Technical data (p. 18-18)



Type	$M_{max}$
20/2	18 Nm

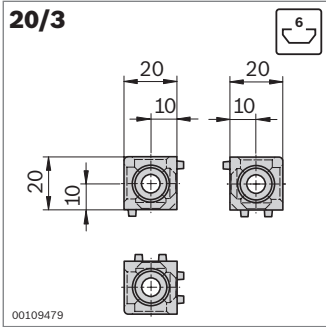


Cubic connector 20/2	Slot	ESD	No.	FS
Set (standard), signal gray	6		1	<b>3 842 549 858</b> 2xFS1
<i>designLINE</i> set, signal gray	6		1	<b>3 842 549 859</b> 2xFS1
Cubic connector	6		20	<b>3 842 523 875</b>
Cover cap D12	signal gray (PP)		100	<b>3 842 548 700</b>
	black (PP)		100	<b>3 842 548 704</b>
Countersunk screw S6x16	6		100	<b>3 842 517 132</b>

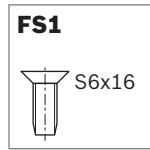
Material: Cubic connector: Diecast aluminum  
*designLINE* cubic connector: painted (RAL 9006)  
 Fastening material: Steel; zinc-plated

Scope of delivery: Set incl. fastening material (FS), cover caps

\* Cubic connector creates conductive connection, but the cover caps included in the set are not ESD-compatible.



Type	
20/3	23 Nm

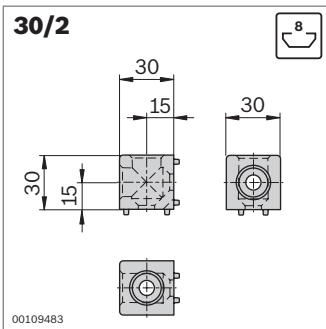


Cubic connector 20/3	Slot	ESD	No.	FS
Set (standard), signal gray	6	⚡*	1 <b>3 842 549 860</b>	3xFS1
<i>designLINE</i> set, signal gray	6	⚡*	1 <b>3 842 549 861</b>	3xFS1
Cubic connector	6	⚡	20 <b>3 842 523 872</b>	
Cover cap D12	signal gray (PP)		100 <b>3 842 548 700</b>	
	black (PP)	⚡	100 <b>3 842 548 704</b>	
Countersunk screw S6x16	6	⚡	100 <b>3 842 517 132</b>	

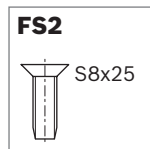
Material: Cubic connector: Diecast aluminum  
*designLINE* cubic connector: painted (RAL 9006)  
 Fastening material: Steel; zinc-plated

Scope of delivery: Set incl. fastening material (FS), cover caps

\* Cubic connector creates conductive connection, but the cover caps included in the set are not ESD-compatible.



Type	
30/2	80 Nm

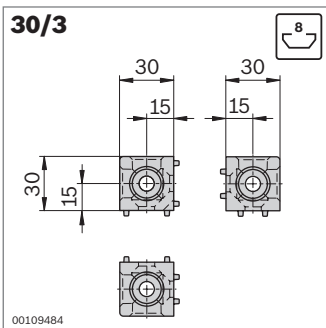


Cubic connector 30/2	Slot	ESD	No.	FS
Set (standard), signal gray	8	⚡*	1 <b>3 842 549 862</b>	2xFS2
<i>designLINE</i> set, signal gray	8	⚡*	1 <b>3 842 549 863</b>	2xFS2
Cubic connector	8	⚡	20 <b>3 842 523 876</b>	
Cover cap D18	signal gray (PP)		100 <b>3 842 548 701</b>	
	black (PP)	⚡	100 <b>3 842 548 705</b>	
Countersunk screw S8x25	8	⚡	100 <b>3 842 517 543</b>	

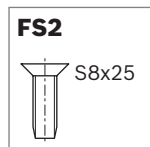
Material: Cubic connector: Diecast aluminum  
*designLINE* cubic connector: painted (RAL 9006)  
 Fastening material: Steel; zinc-plated

Scope of delivery: Set incl. fastening material (FS), cover caps

\* Cubic connector creates conductive connection, but the cover caps included in the set are not ESD-compatible.



Type	
30/3	85 Nm

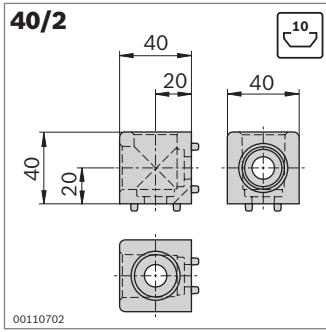


Cubic connector 30/3	Slot	ESD	No.	FS
Set (standard), signal gray	8	⚡*	1 <b>3 842 549 864</b>	3xFS2
<i>designLINE</i> set, signal gray	8	⚡*	1 <b>3 842 549 865</b>	3xFS2
Cubic connector	8	⚡	20 <b>3 842 523 873</b>	
Cover cap D18	signal gray (PP)		100 <b>3 842 548 701</b>	
	black (PP)	⚡	100 <b>3 842 548 705</b>	
Countersunk screw S8x25	8	⚡	100 <b>3 842 517 543</b>	

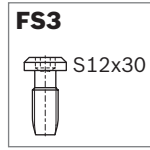
Material: Cubic connector: Diecast aluminum  
*designLINE* cubic connector: painted (RAL 9006)  
 Fastening material: Steel; zinc-plated

Scope of delivery: Set incl. fastening material (FS), cover caps

\* Cubic connector creates conductive connection, but the cover caps included in the set are not ESD-compatible.



Type	
40/2	60 Nm

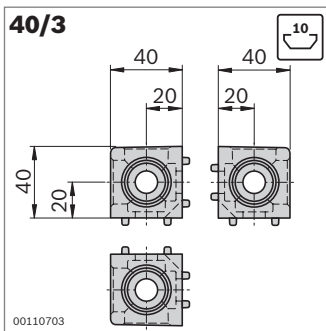


Cubic connector 40/2	Slot	ESD	No.	FS
Set (standard), signal gray	10	⚡*	1	3 842 549 866 2xFS3
<i>designLINE</i> set, signal gray	10	⚡*	1	3 842 549 867 2xFS3
Cubic connector	10	⚡	20	3 842 529 010
Cover cap D24	signal gray (PP)		100	3 842 548 702
	black (PP)	⚡	100	3 842 548 706
Screw S12x30	10	⚡	100	3 842 530 236

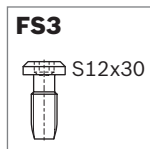
Material: Cubic connector: Diecast aluminum  
*designLINE* cubic connector: painted (RAL 9006)  
 Fastening material: Steel; zinc-plated

Scope of delivery: Set incl. fastening material (FS), cover caps

\* Cubic connector creates conductive connection, but the cover caps included in the set are not ESD-compatible.



Type	
40/3	70 Nm

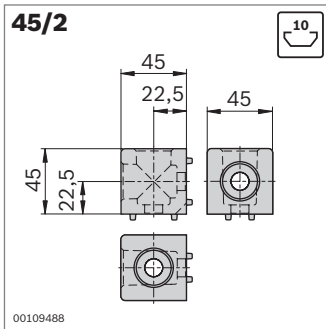


Cubic connector 40/3	Slot	ESD	No.	FS
Set (standard), signal gray	10	⚡*	1	3 842 549 868 3xFS3
<i>designLINE</i> set, signal gray	10	⚡*	1	3 842 549 869 3xFS3
Cubic connector	10	⚡	20	3 842 529 011
Cover cap D24	signal gray (PP)		100	3 842 548 702
	black (PP)	⚡	100	3 842 548 706
Screw S12x30	10	⚡	100	3 842 530 236

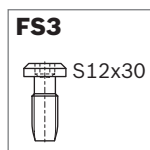
Material: Cubic connector: Diecast aluminum  
*designLINE* cubic connector: painted (RAL 9006)  
 Fastening material: Steel; zinc-plated

Scope of delivery: Set incl. fastening material (FS), cover caps

\* Cubic connector creates conductive connection, but the cover caps included in the set are not ESD-compatible.



Type	
45/2 45x45L	150 Nm
45x45	200 Nm

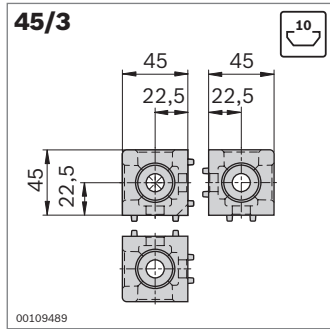


Cubic connector 45/2	Slot	ESD	No.	FS
Set (standard), signal gray	10	⚡*	1	3 842 549 870 2xFS3
<i>designLINE</i> set, signal gray	10	⚡*	1	3 842 549 871 2xFS3
Cubic connector	10	⚡	20	3 842 523 877
Cover cap D24	signal gray (PP)		100	3 842 548 702
	black (PP)	⚡	100	3 842 548 706
Screw S12x30	10	⚡	100	3 842 530 236

Material: Cubic connector: Diecast aluminum  
*designLINE* cubic connector: painted (RAL 9006)  
 Fastening material: Steel; zinc-plated

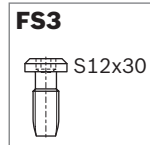
Scope of delivery: Set incl. fastening material (FS), cover caps

\* Cubic connector creates conductive connection, but the cover caps included in the set are not ESD-compatible.



00109489

Type		
45/3	45x45L	170 Nm
	45x45	240 Nm

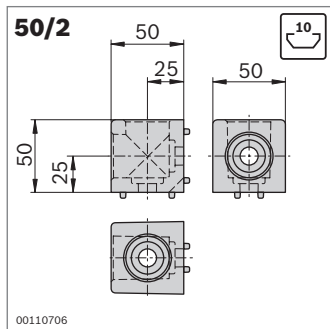


Cubic connector 45/3	Slot	ESD	No.	FS
Set (standard), signal gray	10	⚡*	1	<b>3 842 549 872</b> 3xFS3
<i>designLINE</i> set, signal gray	10	⚡*	1	<b>3 842 549 873</b> 3xFS3
Cubic connector	10	⚡	20	<b>3 842 523 874</b>
Cover cap D24	signal gray (PP)		100	<b>3 842 548 702</b>
	black (PP)	⚡	100	<b>3 842 548 706</b>
Screw S12x30	10	⚡	100	<b>3 842 530 236</b>

Material: Cubic connector: Diecast aluminum  
*designLINE* cubic connector: painted (RAL 9006)  
 Fastening material: Steel; zinc-plated

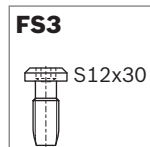
Scope of delivery: Set incl. fastening material (FS), cover caps

\* Cubic connector creates conductive connection, but the cover caps included in the set are not ESD-compatible.



00110706

Type		
50/2		120 Nm

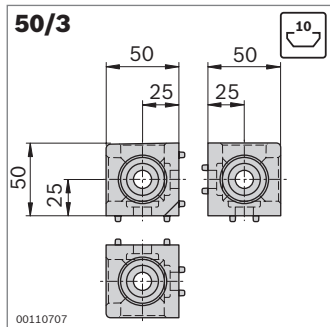


Cubic connector 50/2	Slot	ESD	No.	FS
Set (standard), signal gray	10	⚡*	1	<b>3 842 549 874</b> 2xFS3
Cubic connector	10	⚡	20	<b>3 842 529 012</b>
Cover cap D30	signal gray (PP)		100	<b>3 842 548 703</b>
	black (PP)	⚡	100	<b>3 842 548 707</b>
Screw S12x30	10	⚡	100	<b>3 842 530 236</b>

Material: Cubic connector: Diecast aluminum  
 Fastening material: Steel; zinc-plated

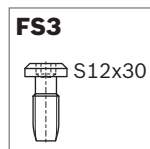
Scope of delivery: Set incl. fastening material (FS), cover caps

\* Cubic connector creates conductive connection, but the cover caps included in the set are not ESD-compatible.



00110707

Type		
50/3		140 Nm

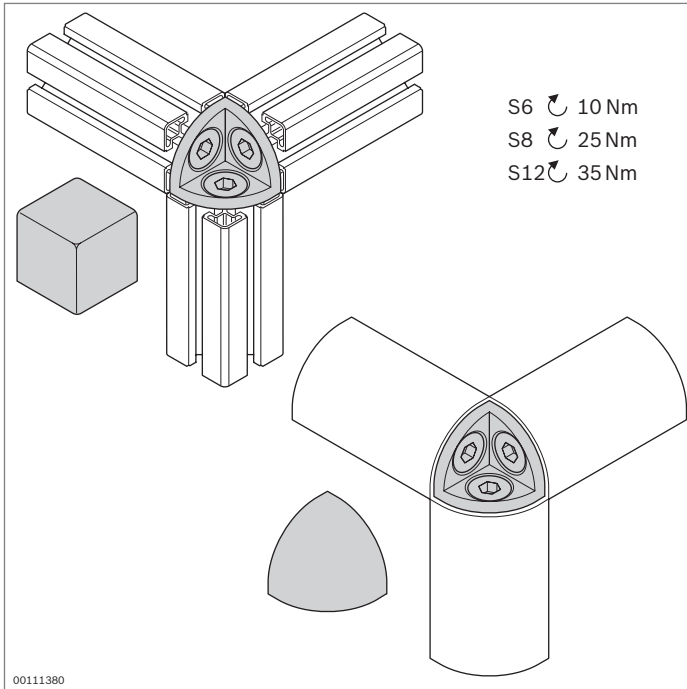


Cubic connector 50/3	Slot	ESD	No.	FS
Set (standard), signal gray	10	⚡*	1	<b>3 842 549 876</b> 3xFS3
Cubic connector	10	⚡	20	<b>3 842 529 013</b>
Cover cap D30	signal gray (PP)		100	<b>3 842 548 703</b>
	black (PP)	⚡	100	<b>3 842 548 707</b>
Screw S12x30	10	⚡	100	<b>3 842 530 236</b>

Material: Cubic connector: Diecast aluminum  
 Fastening material: Steel; zinc-plated

Scope of delivery: Set incl. fastening material (FS), cover caps

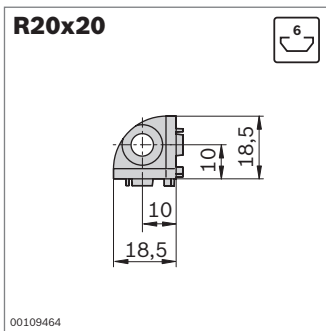
\* Cubic connector creates conductive connection, but the cover caps included in the set are not ESD-compatible.



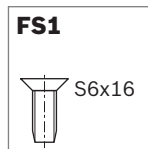
### Corner bracket



- ▶ Corner bracket for corner connection of three square or half-round profiles with equivalent cross-sections
- ▶ Screw fitting on profiles with self-tapping screws
- ▶ Ball or cubic-shaped cover caps to prevent injuries and avoid dirt
- ▶ Profile finishing: Not required

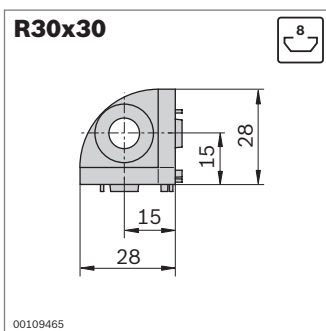


Type	
20/3	23 Nm

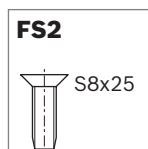


R20x20	Slot	ESD	No.	FS
Corner bracket	6		1 3 842 519 318	3xFS1
Cover cap			10 3 842 548 708	
K (ball)			10 3 842 548 712	
Cover cap			10 3 842 548 716	
W (cube)			10 3 842 548 720	

Material: Corner bracket: Diecast zinc  
Fastening material: Steel; zinc-plated  
Scope of delivery: Incl. fastening material (FS)

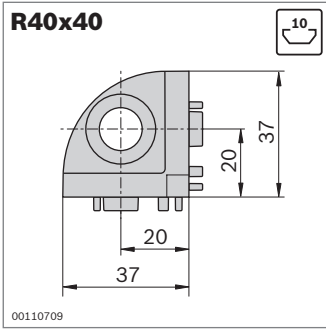


Type	
30/3	85 Nm

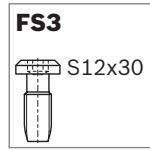


R30x30	Slot	ESD	No.	FS
Corner bracket	8		1 3 842 519 319	3xFS2
Cover cap			10 3 842 548 709	
K (ball)			10 3 842 548 713	
Cover cap			10 3 842 548 717	
W (cube)			10 3 842 548 721	

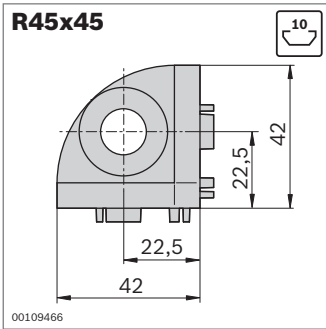
Material: Corner bracket: Diecast zinc  
Fastening material: Steel; zinc-plated  
Scope of delivery: Incl. fastening material (FS)



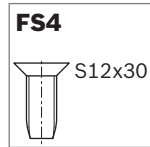
Type	
40/3	70 Nm



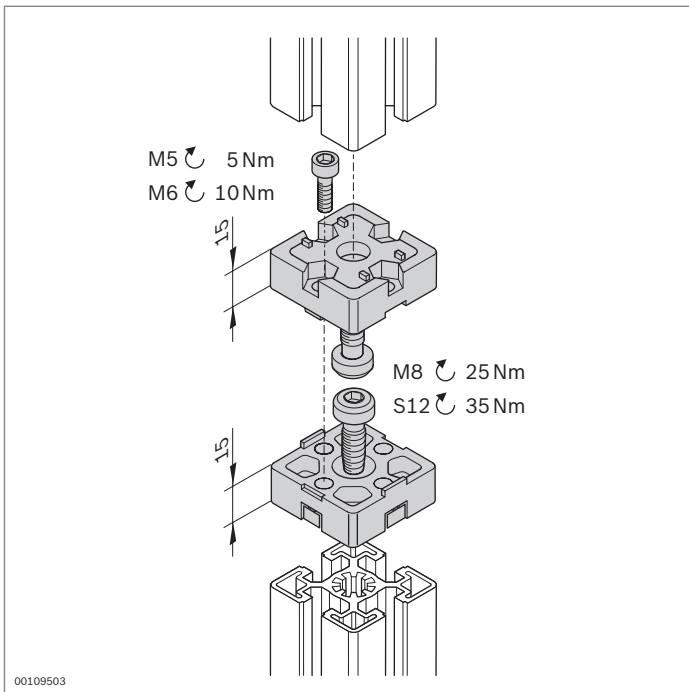
R40x40	Slot	ESD	No.	FS
Corner bracket	10		1 <b>3 842 529 404</b>	3xFS3
Cover cap	signal gray (PP)		10 <b>3 842 548 710</b>	
K (ball)	black (PP)		10 <b>3 842 548 714</b>	
Cover cap	signal gray (PP)		10 <b>3 842 548 718</b>	
W (cube)	black (PP)		10 <b>3 842 548 722</b>	
Material:		Corner bracket: Diecast zinc Fastening material: Steel; zinc-plated		
Scope of delivery: Incl. fastening material (FS)				



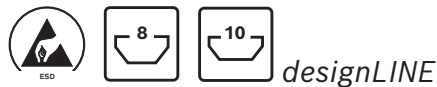
Type	
45/3	170 Nm
45x45L	170 Nm
45x45	240 Nm



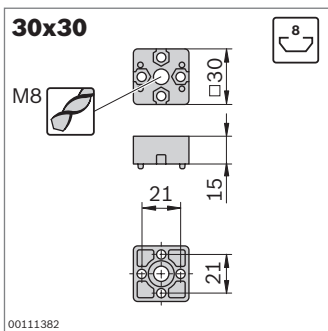
R45x45	Slot	ESD	No.	FS
Corner bracket	10		1 <b>3 842 519 321</b>	3xFS4
Cover cap	signal gray (PP)		10 <b>3 842 548 711</b>	
K (ball)	black (PP)		10 <b>3 842 548 715</b>	
Cover cap	signal gray (PP)		10 <b>3 842 548 719</b>	
W (cube)	black (PP)		10 <b>3 842 548 723</b>	
Material:		Corner bracket: Diecast zinc Fastening material: Steel; zinc-plated		
Scope of delivery: Incl. fastening material (FS)				



### End connector



- ▶ For end-to-end profile connections
- ▶ *designLINE* version with special silver paint (RAL 9006) for an attractive, high-quality design
- ▶ Profile finishing:
  - 30x30: M8 thread cutting in central hole
  - 40x40, 45x45, 50x50: Not required



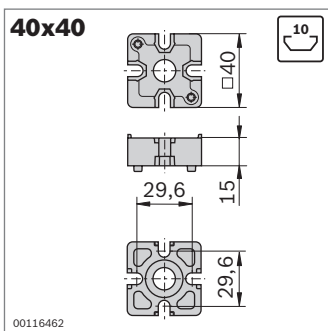
Type	$M_{max}$
30x30	81 Nm

FS1	FS2
DIN 7984 M8x30	DIN 7984 M5x25 DIN 934 M5

End connector	Slot	ESD No.	FS
30x30 Set (standard)	8	3 842 526 003	2xFS1, 4xFS2
<i>designLINE</i> set	8	3 842 538 656	2xFS1, 4xFS2

Material: End connector: Diecast aluminum  
*designLINE* end connector: painted (RAL 9006)  
 Fastening material: Steel; zinc-plated  
 Scope of delivery: Set incl. fastening material (FS)



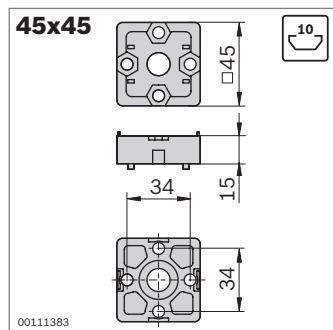
Type	$M_{max}$
40x40	170 Nm

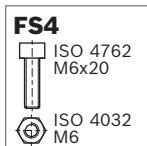
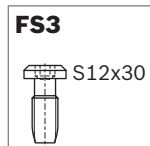
FS3	FS4
S12x30	DIN 7984 M6x25 ISO 4032 M6

End connector	Slot	ESD No.	FS
40x40 Set (standard)	10	3 842 532 196	2xFS3, 4xFS4
<i>designLINE</i> set	10	3 842 538 657	2xFS3, 4xFS4

Material: End connector: Diecast aluminum  
*designLINE* end connector: painted (RAL 9006)  
 Fastening material: Steel; zinc-plated  
 Scope of delivery: Set incl. fastening material (FS)

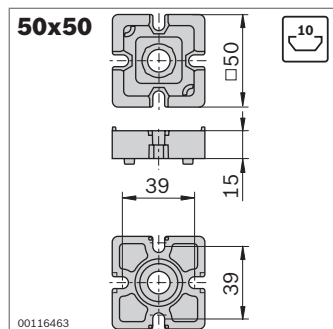


Type	
45x45	200 Nm

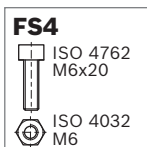
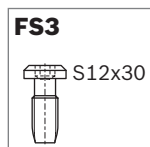


End connector	Slot	ESD No.	FS
<b>45x45</b> Set (standard)	10	<b>3 842 191 175</b>	2xFS3, 4xFS4
<i>designLINE</i> set	10	<b>3 842 538 658</b>	2xFS3, 4xFS4

Material: End connector: Diecast zinc  
*designLINE* end connector: painted (RAL 9006)  
 Fastening material: Steel; zinc-plated  
 Scope of delivery: Set incl. fastening material (FS)

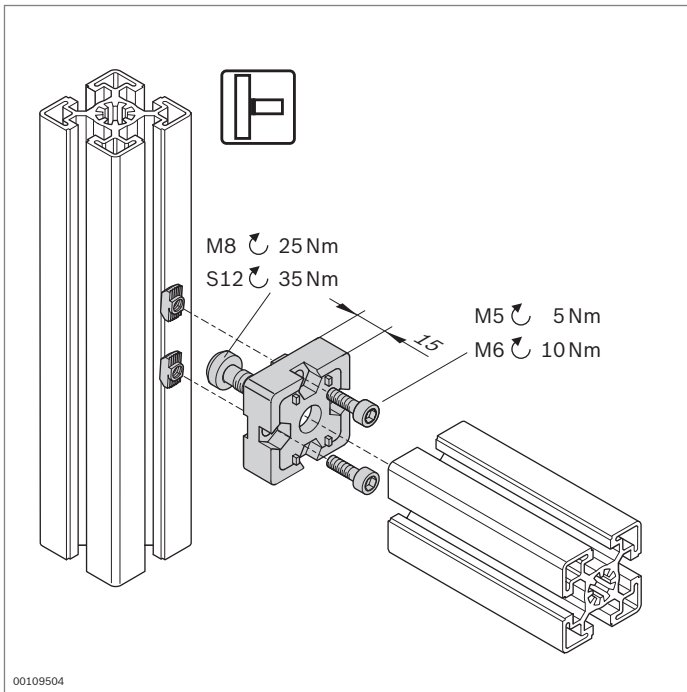


Type	
50x50	180 Nm



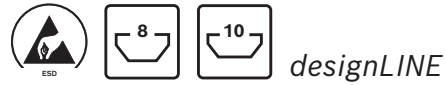
End connector	Slot	ESD No.	FS
<b>50x50</b> Set (standard)	10	<b>3 842 532 199</b>	2xFS3, 4xFS4

Material: End connector: Diecast zinc  
 Fastening material: Steel; zinc-plated  
 Scope of delivery: Set incl. fastening material (FS)

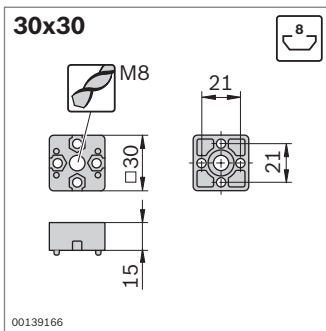


00109504

### T-connector

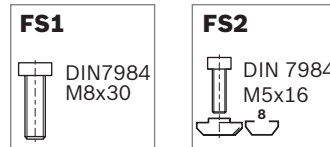


- ▶ For right-angled profile connections
- ▶ *designLINE* version with special silver paint (RAL 9006) for an attractive, high-quality design
- ▶ Profile finishing:
  - 30x30: M8 thread cutting in central hole
  - 40x40, 45x45, 50x50: Not required



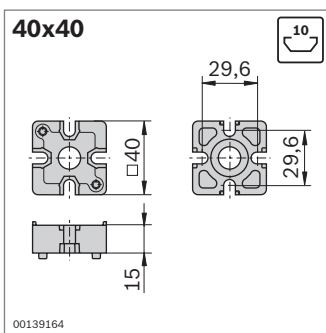
00139166

Type	$F_{max}$	$M_{max}$
30x30	4000 N	80 Nm



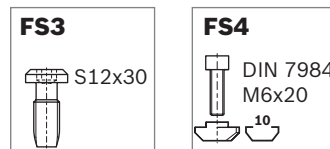
T-connector	Slot	ESD No.	FS
30x30 Set (standard)	8	3 842 524 476	1xFS1, 2xFS2
<i>designLINE</i> set	8	3 842 538 696	1xFS1, 2xFS2

Material: T-connector: Diecast aluminum  
*designLINE* T-connector: painted (RAL 9006)  
 Fastening material: Steel; zinc-plated  
 Scope of delivery: Set incl. fastening material (FS)



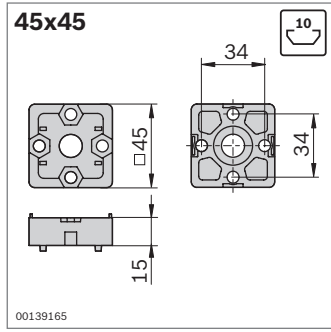
00139164

Type	$F_{max}$	$M_{max}$
40x40	9000 N	150 Nm

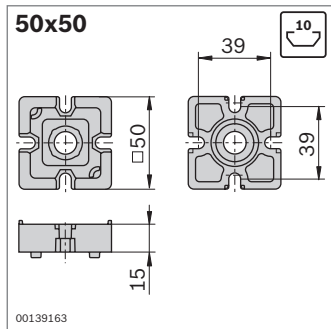
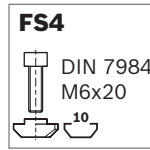
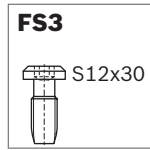


T-connector	Slot	ESD No.	FS
40x40 Set (standard)	10	3 842 532 195	1xFS3, 2xFS4
<i>designLINE</i> set	10	3 842 538 697	1xFS3, 2xFS4

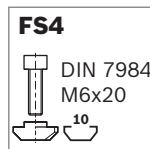
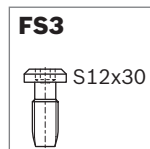
Material: T-connector: Diecast aluminum  
*designLINE* T-connector: painted (RAL 9006)  
 Fastening material: Steel; zinc-plated  
 Scope of delivery: Set incl. fastening material (FS)



Type	$F_{max}$	$M_{max}$
45x45	9000 N	200 Nm



Type	$F_{max}$	$M_{max}$
50x50	10000 N	170 Nm



T-connector	Slot	ESD No.	FS
<b>45x45</b> Set (standard)	10	⚠ <b>3 842 520 802</b>	1xFS3, 2xFS4
<i>designLINE</i> set	10	⚠ <b>3 842 538 698</b>	1xFS3, 2xFS4

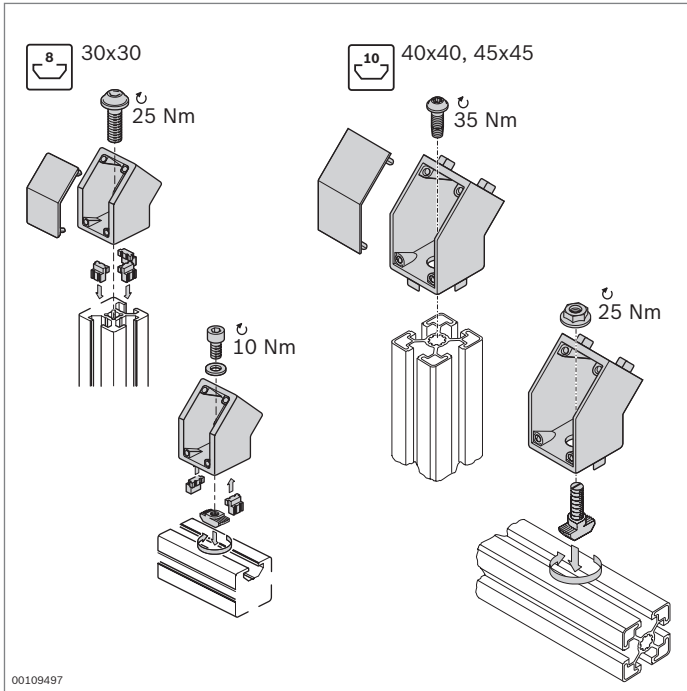
Material: T-connector: Diecast zinc  
*designLINE* T-connector: painted (RAL 9006)  
Fastening material: Steel; zinc-plated

Scope of delivery: Set incl. fastening material (FS)

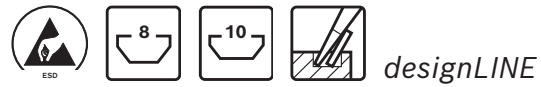
T-connector	Slot	ESD No.	FS
<b>50x50</b> Set (standard)	10	⚠ <b>3 842 532 198</b>	1xFS3, 2xFS4

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

Scope of delivery: Set incl. fastening material (FS)

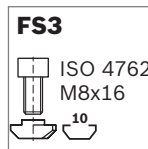
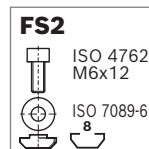
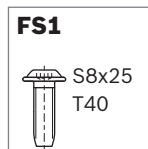
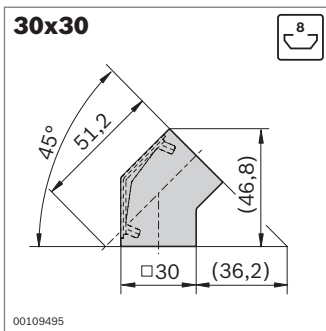


### Connector 45°



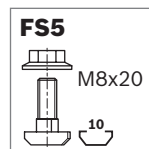
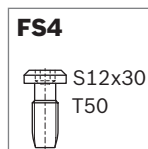
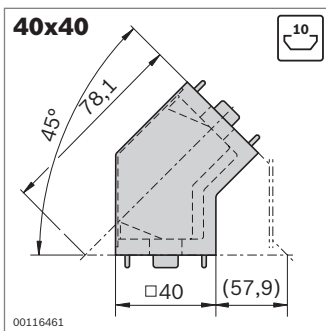
- ▶ For connecting profiles at an angle of less than 45°
- ▶ Suitable for reinforcing frames
- ▶ Suitable for connections at the end-face or in the profile slot
- ▶ 45° connectors 40x40 and 45x45 with centering lugs for easy positioning (centering lugs can simply be broken off for installation in the profile slot)
- ▶ *designLINE* version with special silver paint (RAL 9006) for an attractive, high-quality design
- ▶ Profile finishing: Not required

\* 45° connector creates conductive connection, but the cover caps included in the set are not ESD-compatible.



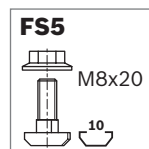
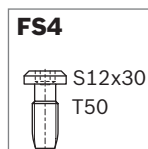
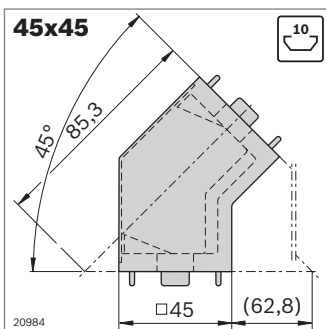
Connector 45°	Color	Slot	ESD No.	FS
30x30 Set (standard)	Signal gray	8	3 842 554 446	2xFS1, FS2, FS3
	Black	8	3 842 554 447	FS2, FS3
<i>designLINE</i> set	Signal gray	8	3 842 554 452	2xFS1, FS2, FS3
	Black	8	3 842 554 453	FS2, FS3

Material: 45° connector: Diecast zinc; *designLINE* 45° connector: painted (RAL 9006); centering piece, cover cap: PP; fastening material: Steel; zinc-plated  
 Scope of delivery: Set incl. fastening material (FS), 6 x centering piece, cover cap



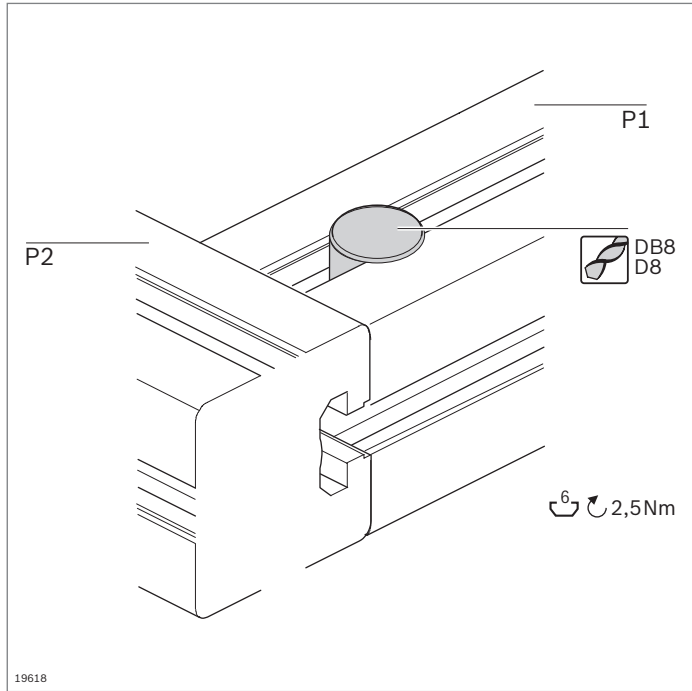
Connector 45°	Color	Slot	ESD No.	FS
40x40 Set (standard)	Signal gray	10	3 842 554 448	2xFS4, FS5
	Black	10	3 842 554 449	FS5
<i>designLINE</i> set	Signal gray	10	3 842 554 454	2xFS4, FS5
	Black	10	3 842 554 455	FS5

Material: 45° connector: Cast aluminum; *designLINE* 45° connector: painted (RAL 9006); centering piece, cover cap: PP; fastening material: Steel; zinc-plated  
 Scope of delivery: Set incl. fastening material (FS), cover cap



Connector 45°	Color	Slot	ESD No.	FS
45x45 Set (standard)	Signal gray	10	3 842 554 450	2xFS4, FS5
	Black	10	3 842 554 451	FS5
<i>designLINE</i> set	Signal gray	10	3 842 554 456	2xFS4, FS5
	Black	10	3 842 554 457	FS5

Material: 45° connector: Cast aluminum; *designLINE* 45° connector: painted (RAL 9006); centering piece, cover cap: PP; fastening material: Steel; zinc-plated  
 Scope of delivery: Set incl. fastening material (FS), cover cap

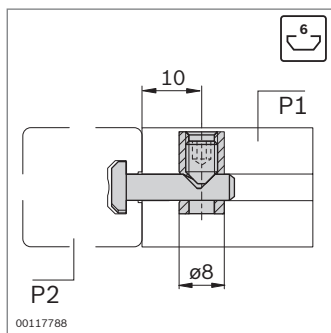
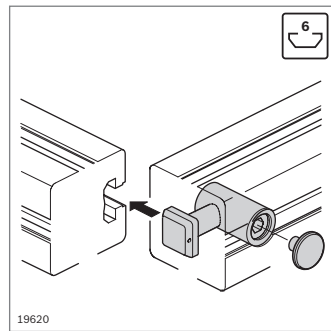
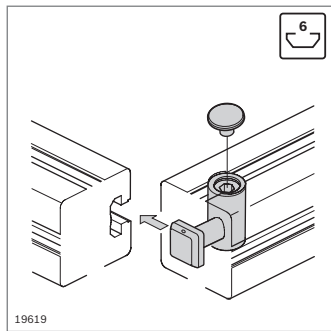


### Quick connector, 6 mm slot, 0°, 90° cover cap



- ▶ For the right-angled connecting of two profiles
- ▶ Excellent accessibility for tools during mounting
- ▶ Quick connector for 6 mm slot with square head; can be used as a 0° or 90° connector
- ▶ Profile finishing:  
Blind hole DB8 or through-hole D8

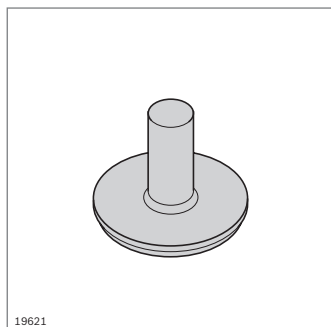
Accessories, optional:  
Drilling jig (p. 14-2)



Slot	$F_{max}$	$M_{max}$
6 / 6	450 N	18 Nm

Quick connector 0° / 90°	P1 / P2	D (mm)	ESD	No.
	6 / 6	8		10 <b>3 842 537 013</b>

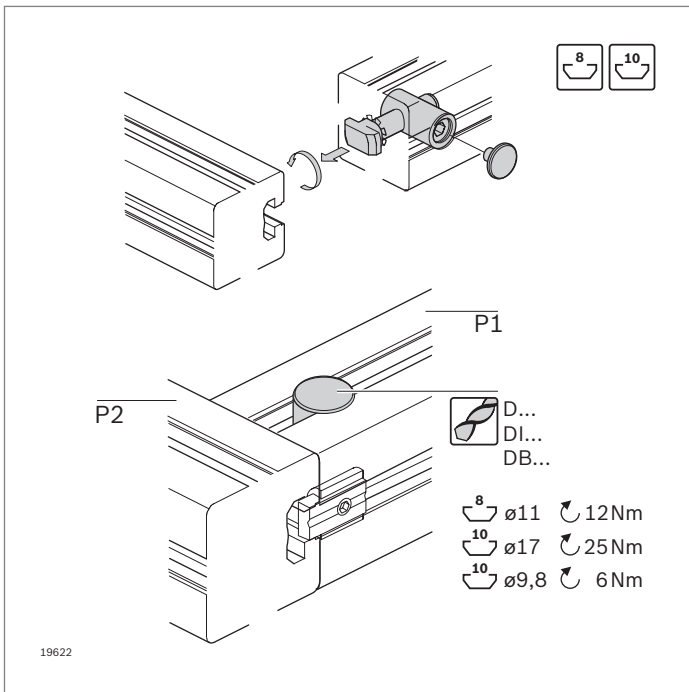
Material: Steel; stainless



- ▶ Cover cap for connector sleeves

Cover cap	D (mm)	No.
	8	100 <b>3 842 551 038</b>

Material: PE; signal gray RAL 7004



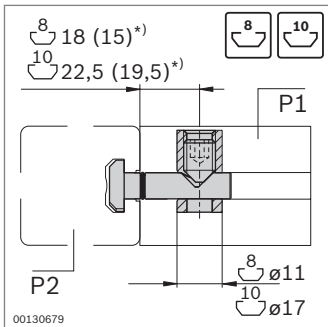
### Quick connector, 8/10 mm slot, 0°



- ▶ For the right-angled connecting of two profiles
- ▶ Excellent accessibility for tools during mounting
- ▶ O-ring for fixing allows overhead assembly
- ▶ Quick connectors can be pivoted into the profile slot at the mounting location
- ▶ Profile finishing:  
Blind hole DI, DB11, DB17 or through-hole DI, D11, D17
- ▶ Note differing drilling intervals and load capacities when using with radial compensation ("Technical data" p. 18-16)

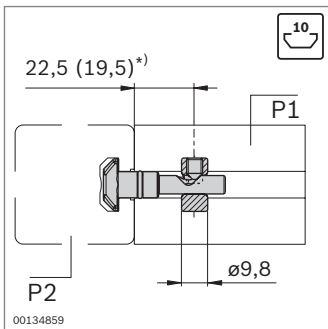
Accessories, optional:

- ▶ Anti-torsion element (p. 3-44)
- ▶ Radial compensation (p. 2-94)
- ▶ Drilling jig (p. 14-2)
- ▶ Cover cap (p. 3-56)



Slot	$F_{max}$	$M_{max}$
8 / 8	500 N	40 Nm
8 / 10	2000 N	70 Nm
10 / 10	4000 N	140 Nm

\*) With the use of a radial compensation



Slot	$F_{max}$	$M_{max}$
10 / 10	800 N	50 Nm

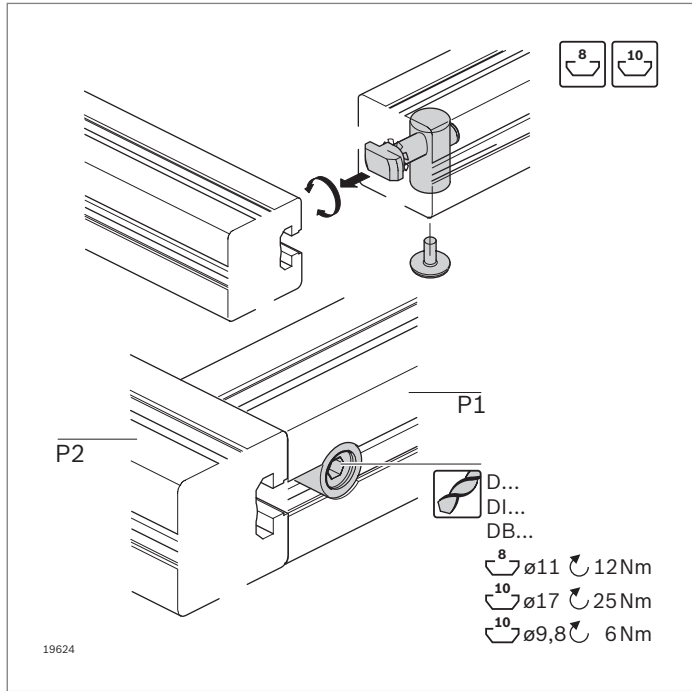
\*) With the use of a radial compensation

Quick connector 0°	P1 / P2	D (mm)	ESD	No.
<b>Steel; zinc-plated</b>	8 / 8	11	⚠	3 842 535 459
	8 / 10	11	⚠	3 842 535 464
	10 / 10	17	⚠	3 842 535 458
<b>Steel; stainless</b>	8 / 8	11	⚠	3 842 548 934
	8 / 10	11	⚠	3 842 548 935
	10 / 10	17	⚠	3 842 548 936

- ▶ Quick connector 9.8 with smaller connector sleeve
- ▶ The hole for the connector sleeve does not make contact with the slot flanks. This permits a visually attractive connection; the slot can be completely closed with the cover profile

Quick connector 0°, connector sleeve D = 9.8	P1 / P2	D (mm)	ESD	No.
<b>Steel; zinc-plated</b>	10 / 10	9.8 <sup>1)</sup>	⚠	3 842 541 412

<sup>1)</sup> No standard hole in modular dimensions 40, 50 and 60  
Target distance from profile end: 22.5 mm



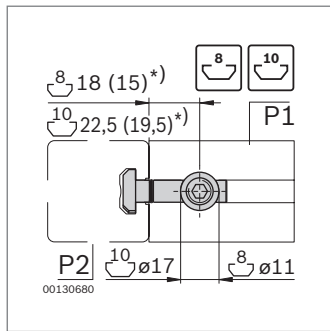
### Quick connector, 8/10 mm slot, 90° cover cap



- ▶ Tie rod head rotated at a 90° angle to the connector sleeve
- ▶ Profile finishing: Blind hole DI, DB11, DB17 or through-hole DI, D11, D17

Accessories, optional:

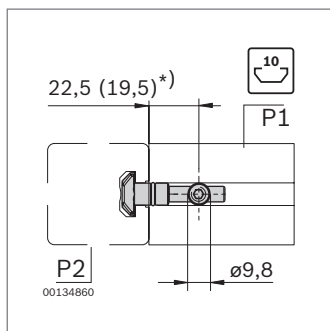
- ▶ Anti-torsion element (p. 3-44)
- ▶ Radial compensation (p. 2-94)
- ▶ Drilling jig (p. 14-2)
- ▶ Cover cap



Slot	$F_{max}$	$M_{max}$
8 / 8	500 N	40 Nm
10 / 10	4000 N	140 Nm

\*) With the use of a radial compensation

Quick connector 90°	P1 / P2	D (mm)	ESD	No.
Steel; zinc-plated	8 / 8	11	⚡	10 3 842 535 465
	10 / 10	17	⚡	10 3 842 535 466
Steel; stainless	8 / 8	11	⚡	10 3 842 548 937
	10 / 10	17	⚡	10 3 842 548 938

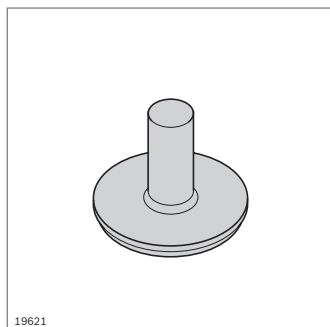


Slot	$F_{max}$	$M_{max}$
10 / 10	800 N	50 Nm

\*) With the use of a radial compensation

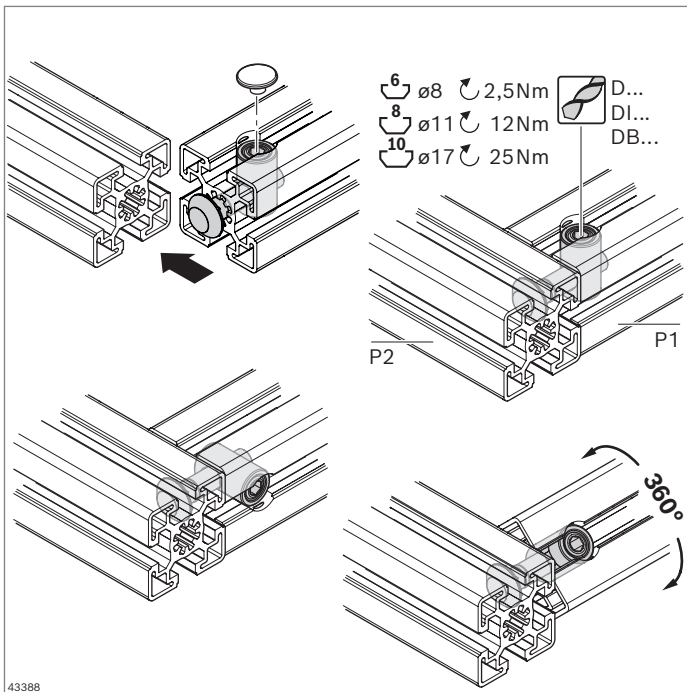
Quick connector 90°, connector sleeve D = 9.8	P1 / P2	D (mm)	ESD	No.
Steel; zinc-plated	10 / 10	9.8 <sup>1)</sup>	⚡	10 3 842 541 410

<sup>1)</sup> No standard hole in modular dimensions 40, 50 and 60  
Target distance from profile end: 22.5 mm



Cover cap	D (mm)	No.
	11	100 3 842 551 040
	17	100 3 842 551 042

Material: PE; signal gray RAL 7004



43388

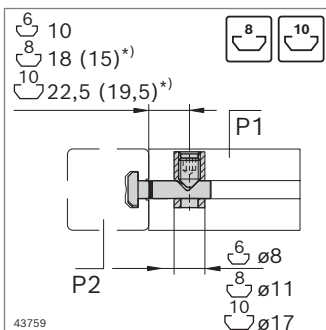
### Quick connector with round head



- ▶ For the right-angled connecting of two profiles
- ▶ Excellent accessibility for tools during mounting
- ▶ O-ring for fixing allows overhead assembly (25.079 versions)
- ▶ Profiles can be rotated as desired
- ▶ Profile finishing:  
Blind hole DI, DB8, DB11, DB17 or through-hole DI, D8, D11, D17

Accessories, optional:

- Anti-torsion element (p. 3-44)
- Radial compensation (p. 2-94)
- Drilling jig (p. 14-2)
- Cover cap (p. 3-56 + 3-58)

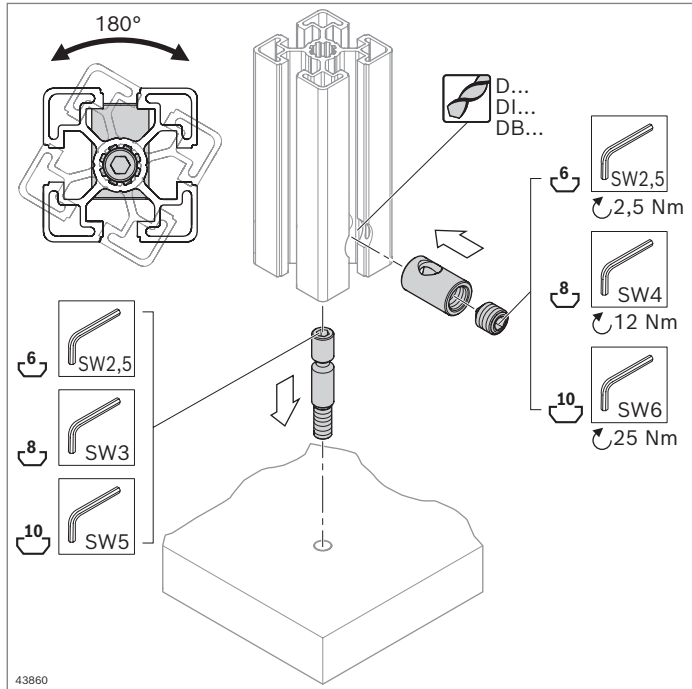


43759

Slot	$F_{max}$	$M_{max}$
6 / 6	250 N	6 Nm
8 / 8	500 N	40 Nm
8 / 10	500 N	40 Nm
10 / 10	2500 N	140 Nm

\*) With the use of a radial compensation

Quick connector with round head	P1 / P2	D (mm)	ESD	No.
<b>Steel; stainless</b>	6 / 6	8		10 <b>3 842 564 112</b>
<b>Steel; zinc-plated</b>	8 / 8	11		10 <b>3 842 564 113</b>
	8 / 10	11		10 <b>3 842 564 142</b>
	10 / 10	17		10 <b>3 842 564 114</b>



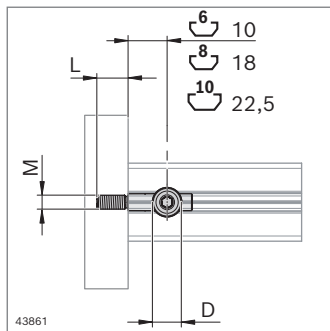
### Quick connector with threaded tension rods



- ▶ For attaching profiles to plates
- ▶ Easy tensioning thanks to circumferential notch on the tie rod
- ▶ Profile finishing:  
Blind hole DB8, DB11, DB17 or  
through-hole D8, D11, D17

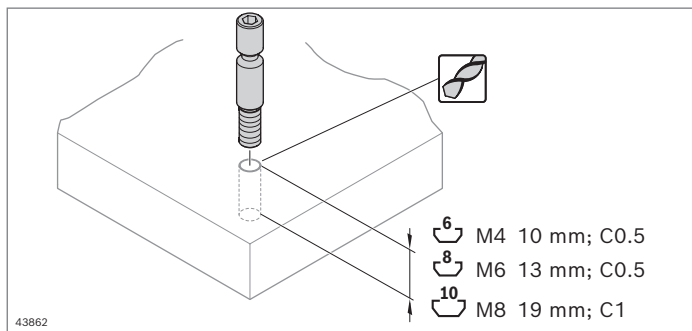
Accessories, optional:

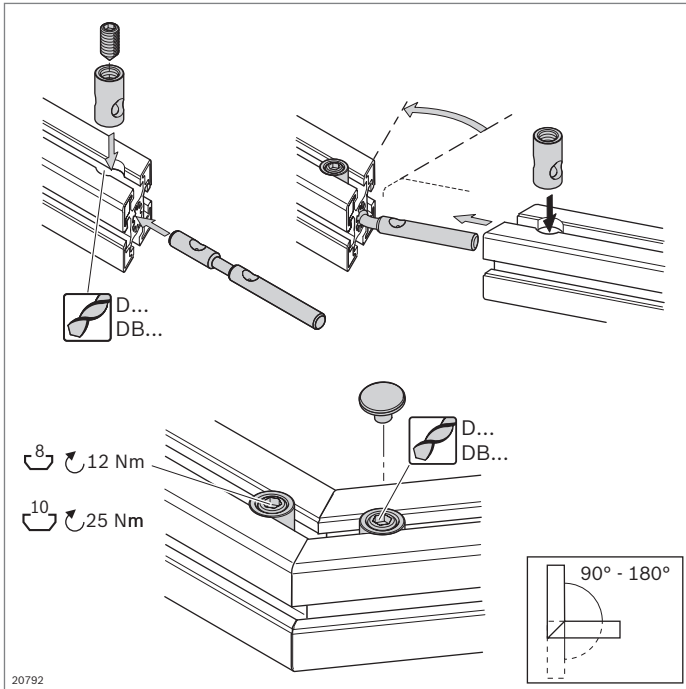
- ▶ Anti-torsion element (p. 3-44)
- ▶ Drilling jig (p. 14-2)
- ▶ Cover cap (p. 3-56 + 3-58)



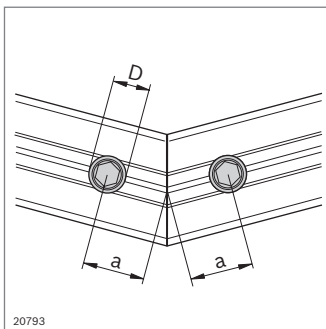
Slot	$M_{max}$
6	18 Nm
8	40 Nm
10	140 Nm

Quick connector with threaded tension rods	Slot	M	L (mm)	D (mm)	ESD	No.
<b>Steel; stainless</b>	6	M4	9	8	⚡	10 3 842 557 258
<b>Steel; zinc-plated</b>	8	M6	12	11	⚡	10 3 842 557 257
	10	M8	18	17	⚡	10 3 842 557 256





20792



20793

Profile	$M_{max}$
30x30	24 Nm
40x40L	100 Nm
45x45L	110 Nm
45x45	145 Nm
50x50L	160 Nm

### Quick connector, bendable – end-to-end



- ▶ For end-to-end connecting of two profiles with equal cross-sections and at any angle, e.g. for frames
- ▶ Profile finishing:  
Blind hole DB11, DB17 or through-hole D11, D17  
Miter cut

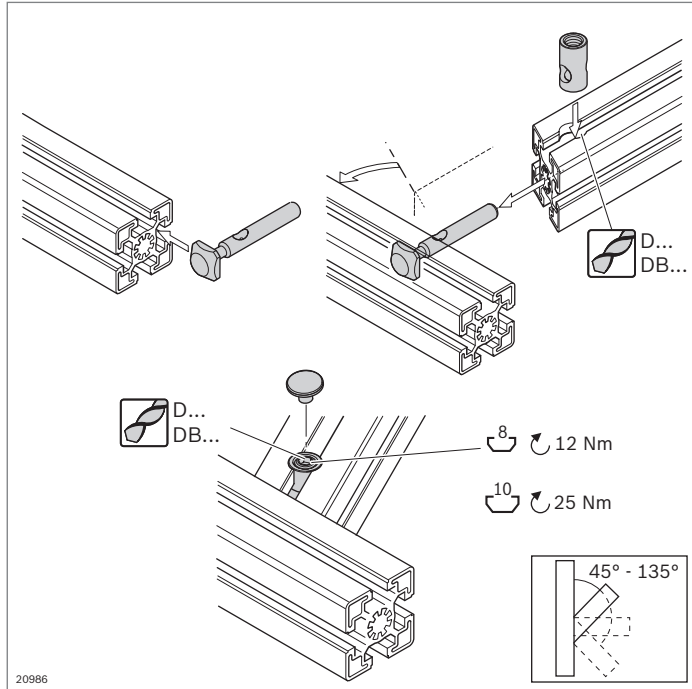
Technical data (p. 18-16)

Accessories:

- ▶ Drilling jig (p. 14-2)
- ▶ Cover cap (p. 3-56)

Quick connector, bendable	P1 / P2	a (mm)	D (mm)	ESD	No.
End-to-end	8 / 8	18	11		10 3 842 535 630
	10 / 10	22.5	17		10 3 842 535 634

Material: Tie rod: Steel; stainless  
Socket: Steel; zinc-plated



### Quick connector, bendable – end-to-slot

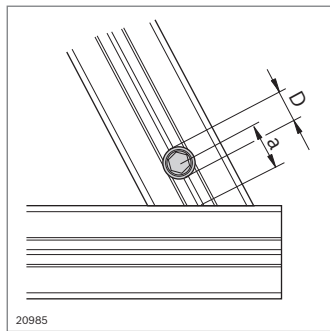


- ▶ For end-to-slot connecting of two profiles at any angle, e.g. for framework constructions
- ▶ Profile finishing:  
Blind hole DB11, DB17 or through-hole D11, D17  
Miter cut

Technical data (p. 18-16)

Accessories:

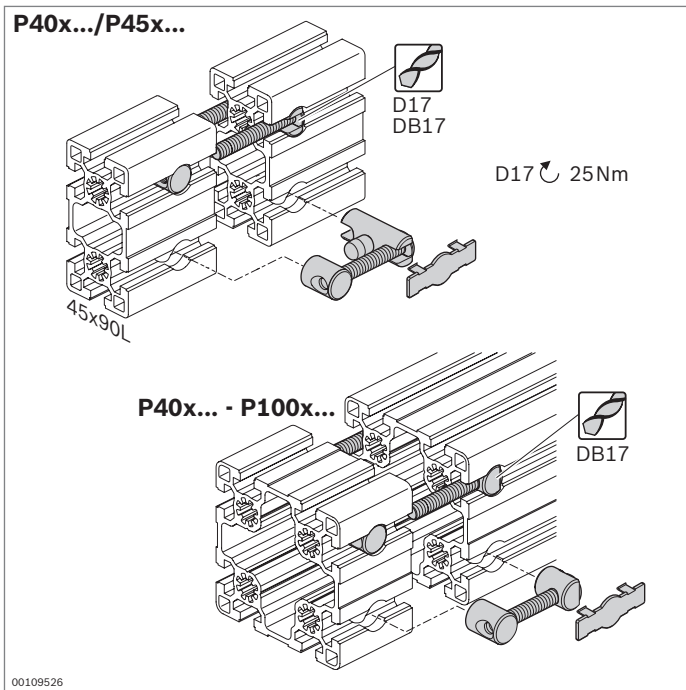
- ▶ Drilling jig (p. 14-2)
- ▶ Cover cap (p. 3-56)



Quick connector, bendable	P1 / P2	a (mm)	D (mm)	ESD	No.
End-to-slot	8 / 8	18	11	⚡	10 3 842 535 629
	10 / 10	22.5	17	⚡	10 3 842 535 635

Material: Tie rod: Steel; stainless  
Socket: Steel; zinc-plated

Profile	$F_{max}$	$M_{max}$	$F_{max}$	$M_{max}$
30x30	1100 N	35 Nm	650 N	40 Nm
40x40L	1500 N	110 Nm	1000 N	80 Nm
45x45L	1500 N	120 Nm	1000 N	95 Nm
45x45	1500 N	140 Nm	1100 N	180 Nm
50x50L	1500 N	150 Nm	1100 N	180 Nm

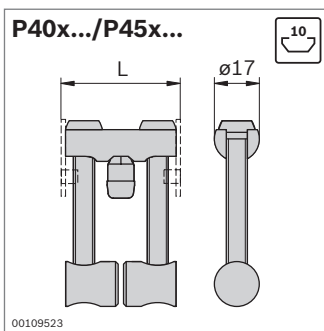


### Longitudinal end connector



- ▶ For the end-to-end connecting of two profiles
- ▶ Standard profile finishing:  
Through-hole D17 (longitudinal end connectors on both sides)  
Blind hole DB17 or through-hole D17 (longitudinal end connector on one side)

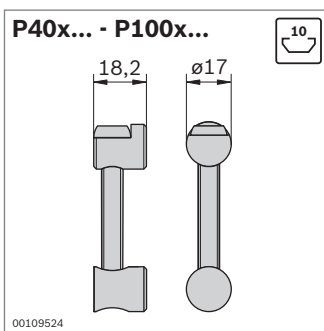
Accessories, optional:  
Cover cap D17 x 44.6; ESD (p. 3-65)



Longitudinal end connector, two-sided	L (mm)	ESD No.
Profile 40x...	40	⚡* 3 842 554 442
Profile 45x...	45	⚡* 3 842 554 440

Material: Longitudinal end connector: screw steel; zinc-plated  
Centering pin, cover caps: PP; signal gray

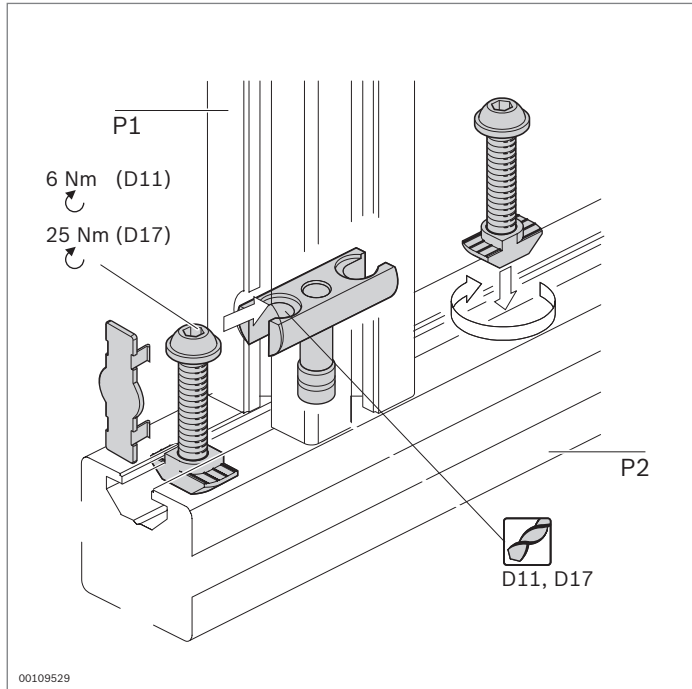
Scope of delivery: Incl. 4 x cover cap  
\* Longitudinal end connector establishes conductive connection.  
Cover caps included in the set are not ESD-compatible.



Longitudinal end connector, one-sided	ESD No.
Profile 40x... - 100x...	⚡* 3 842 554 444

Material: Longitudinal end connector: screw steel; zinc-plated  
Centering pin, cover caps: PP; signal gray

Scope of delivery: Incl. 2 x cover cap  
\* Longitudinal end connector establishes conductive connection.  
Cover caps included in the set are not ESD-compatible.



### Bolt connector



- For the right-angled connecting of two profiles
- Suitable for heavy loads, including torsional loads
- Can be mounted in closed frames
- Profile finishing: Through-hole D11, D17

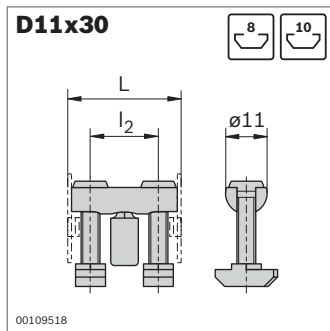
Technical data (p. 18-17)

Accessories:

Drilling jig (p. 14-2)

Accessories, optional:

Cover cap, ESD (p. 3-65)



Size	$F_{max}$	$M_{max}$	$M_{max}$
30	2500 N	60 Nm	20 Nm

Bolt connector	P1 / P2	L (mm)	$l_2$ (mm)	ESD	No.
D11x30	8 / 8	30	18	⚡*	10 <b>3 842 554 402</b>
	8 / 10	30	18	⚡*	10 <b>3 842 555 590</b>

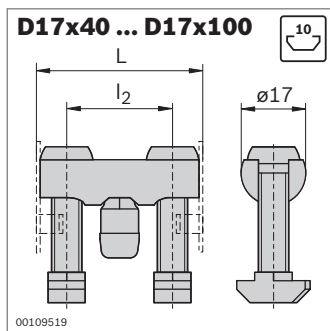
Material:

Bolt connector: Steel; zinc-plated

Centering pin, cover caps: PP; signal gray

\* Bolt connector creates conductive connection, but the cover caps included in the set are not ESD-compatible.

Scope of delivery: Incl. 2 x cover cap



Size	$F_{max}$	$M_{max}$	$M_{max}$
40	4000 N	180 Nm	40 Nm
45	4000 N	180 Nm	60 Nm
50	4000 N	200 Nm	65 Nm
60	4000 N	200 Nm	80 Nm
80	5000 N	800 Nm	170 Nm
90	5000 N	800 Nm	200 Nm
100	5000 N	1000 Nm	480 Nm

Bolt connector	P1 / P2	L (mm)	$l_2$ (mm)	ESD	No.
D17x40	10 / 10	40	23	⚡*	10 <b>3 842 555 594</b>
D17x45	10 / 10	45	28	⚡*	10 <b>3 842 555 584</b>
D17x50	10 / 10	50	33	⚡*	10 <b>3 842 555 596</b>
D17x60	10 / 10	60	43	⚡*	10 <b>3 842 555 586</b>
D17x80	10 / 10	80	63	⚡*	10 <b>3 842 555 598</b>
D17x90	10 / 10	90	73	⚡*	10 <b>3 842 555 588</b>
D17x100	10 / 10	100	83	⚡*	10 <b>3 842 555 592</b>

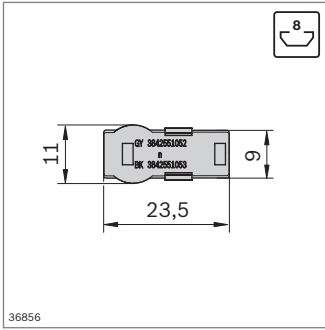
Material:

Bolt connector: Steel; zinc-plated

Centering pin, cover caps: PP; signal gray

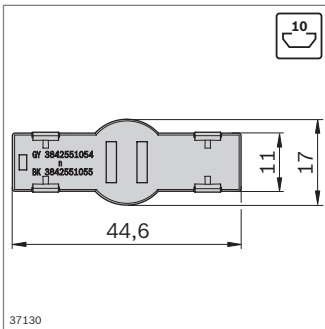
\* Bolt connector creates conductive connection, but the cover caps included in the set are not ESD-compatible.

Scope of delivery: Incl. 2 x cover cap



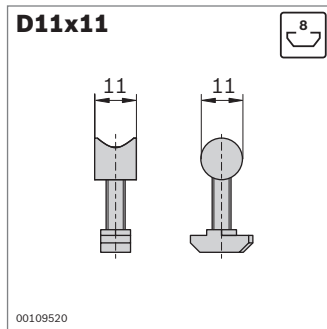
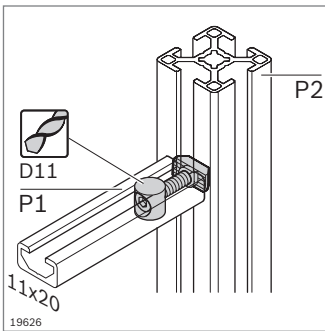
Cover cap	Color	ESD	No.
<b>D11 x 23.5</b>	Signal gray	100	<b>3 842 551 052</b>
<b>D11 x 23.5</b>	Black	100	<b>3 842 551 053</b>

Material: PP



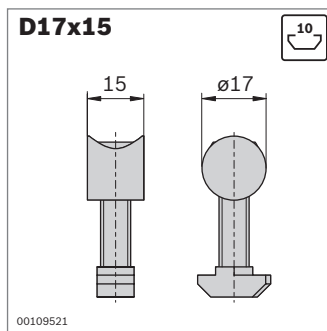
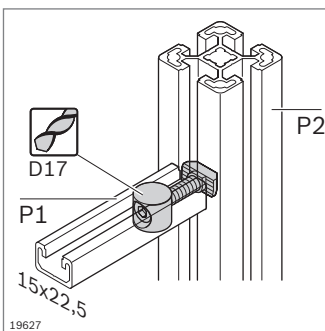
Cover cap	Color	ESD	No.
<b>D17 x 44.6</b>	Signal gray	100	<b>3 842 551 054</b>
<b>D17 x 44.6</b>	Black	100	<b>3 842 551 055</b>

Material: PP



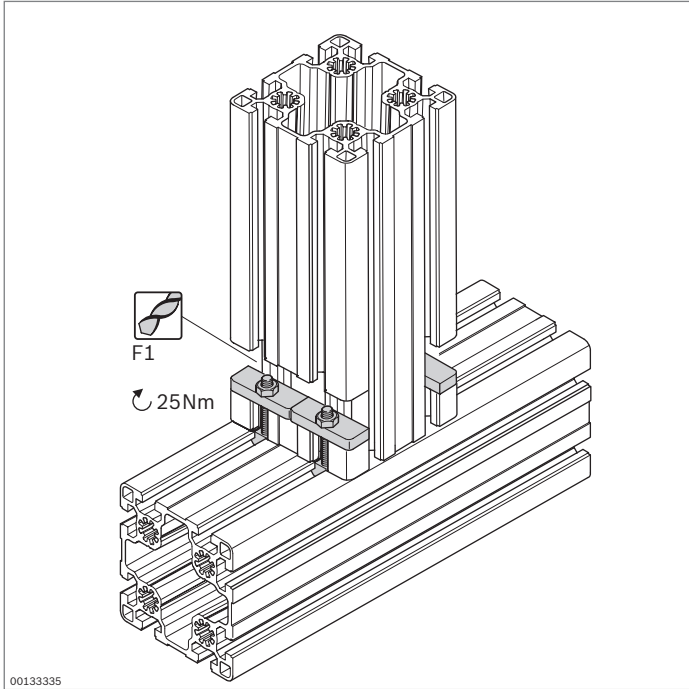
Bolt connector	P1 / P2	ESD	No.
<b>D11x11</b>	8 / 8	10	<b>3 842 535 617</b>

Material: Steel; zinc-plated



Bolt connector	P1 / P2	ESD	No.
<b>D17x15</b>	10 / 10	10	<b>3 842 535 619</b>

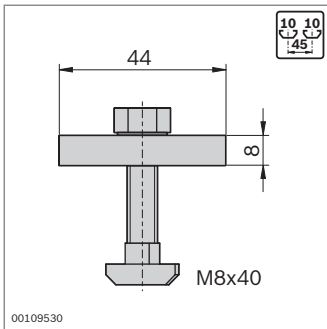
Material: Steel; zinc-plated



### QV mounting kit

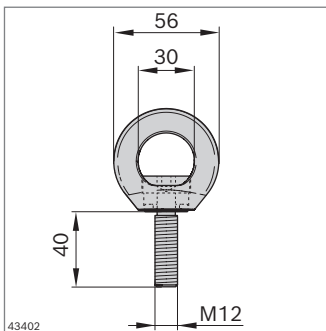
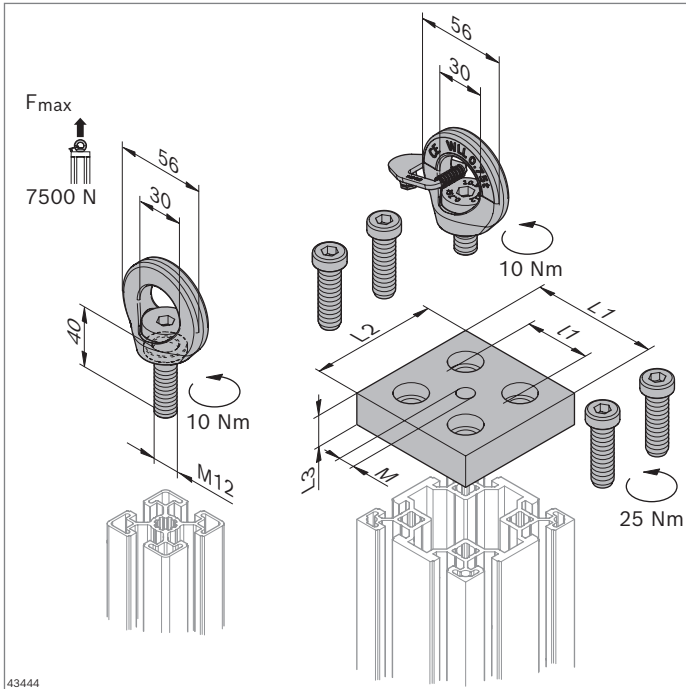


- ▶ For the right-angled connecting of two profiles
- ▶ Excellent accessibility for tools during mounting
- ▶ Profile finishing: Standard milling F1
- ▶ Bending moments must be avoided



Slot	
10	1000 N

QV mounting kit		No.
Material: Steel; zinc-plated	10	<b>3 842 146 972</b>



## Lifting eye bolt

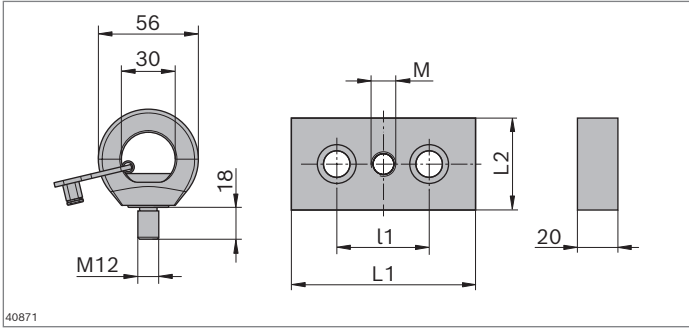


- ▶ Lifting eye bolt for lifting aluminum profile frames
- ▶ Profile finishing:  
M12 thread cutting in central hole

Technical data (p. 18-22)

Lifting eye bolt M12x40	No.
	<b>3 842 564 729</b>

Material:           Screw: Steel; bronzed  
                           Eye: Steel, painted (orange)



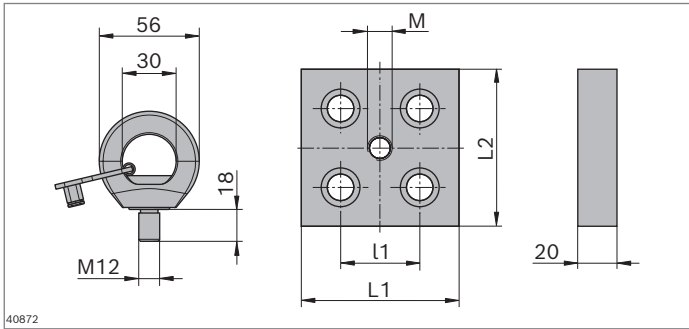
40871

Lifting eye bolt with plate	L1 (mm)	l1 (mm)	L2 (mm)	No.	FS
<b>45x90</b>	90	45	45	<b>3 842 564 734</b>	2xFS1
<b>40x80</b>	80	40	40	<b>3 842 564 736</b>	2xFS1

Material: Plate: Steel; nickel-plated  
Fastening material: Steel; zinc-plated  
Screw: Steel; bronzed  
Eye: Steel, painted (orange)

Scope of delivery: Incl. Fastening material

**FS1**



40872

Lifting eye bolt with plate	L1 (mm)	l1 (mm)	L2 (mm)	No.	FS
<b>90x90</b>	90	45	90	<b>3 842 564 735</b>	4xFS2
<b>80x80</b>	80	40	80	<b>3 842 564 737</b>	4xFS2

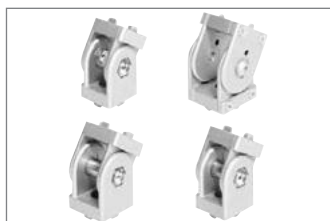
Material: Plate: Steel; nickel-plated  
Fastening material: Steel; zinc-plated  
Screw: Steel; bronzed  
Eye: Steel, painted (orange)

Scope of delivery: Incl. Fastening material

**FS2**



# Joints



Joints (p. 4-2)



Swivel bearing (p. 4-11)



Supporting arm joint  
(p. 4-12)



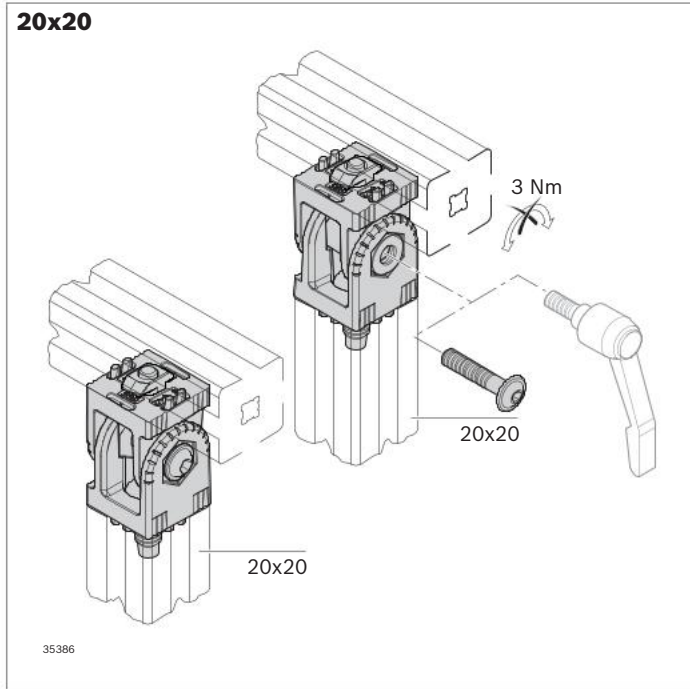
Bearing pedestal (p. 4-13)



Swivel mounting (p. 4-14)



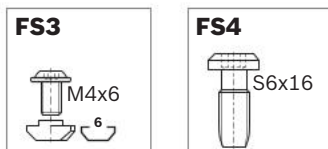
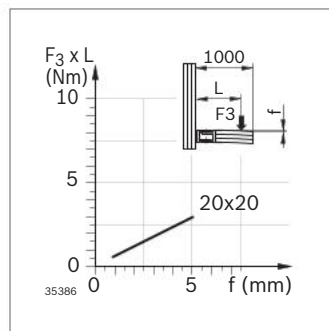
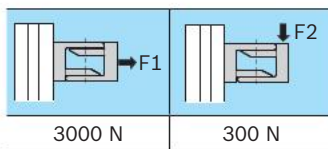
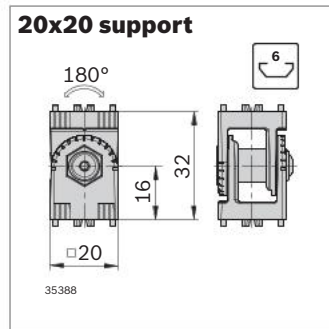
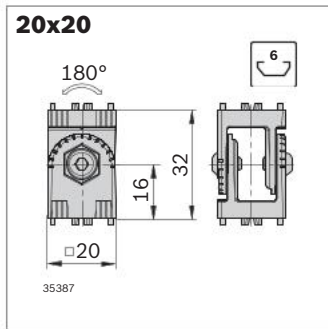
Clamping lever, star knob  
(p. 4-15)



## Joint 20x20



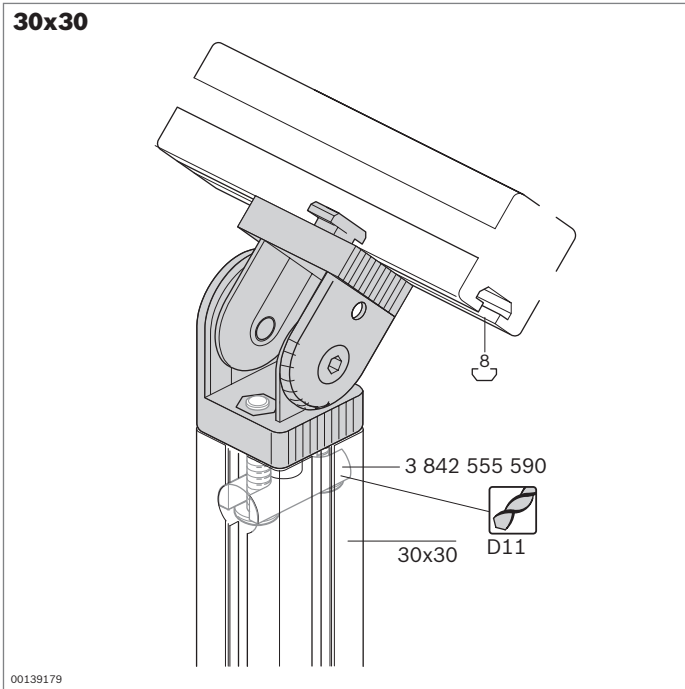
- ▶ For movable or rigid profile connections at any angle
- ▶ Swivel range 180°
- ▶ With a 15° graduation
- ▶ Clamping (3 Nm) and convenient adjustment of joint using a clamping lever (M4x20)
- ▶ *designLINE* version with special silver paint (RAL 9006) for an attractive, high-quality design
- ▶ Two different assembly versions (normal and support) available under the same order number



Joint 20x20	Slot	ESD No.	FS
Standard	6	3 842 555 659	2xFS3, 2xFS4
<i>designLINE</i>	6	3 842 555 665	2xFS3, 2xFS4

Material: Standard: Diecast aluminum  
*designLINE*: painted, RAL 9006  
Fastening material: Steel; zinc-plated

Scope of delivery: Incl. fastening material (FS)

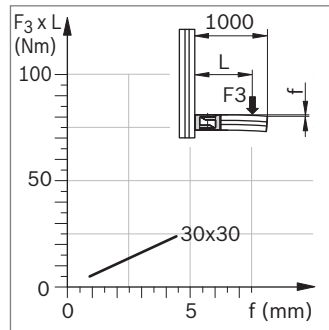
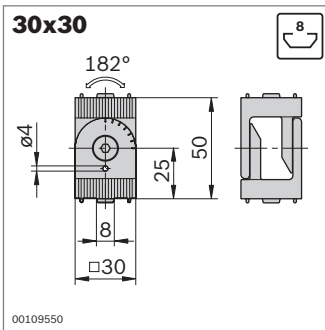


### Joint 30x30



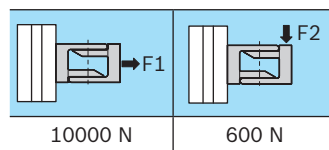
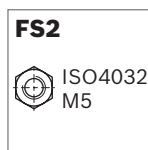
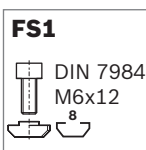
- ▶ For movable or rigid profile connections at any angle
- ▶ Swivel range 182°
- ▶ With a 15° graduation
- ▶ Joint can be clamped (5 Nm) or swivel mounted
- ▶ Option of permanent fixing via pins (15 Nm)
- ▶ *designLINE* version with special silver paint (RAL 9006) for an attractive, high-quality design
- ▶ Profile finishing:  
Through-hole D11 for end face profile connections

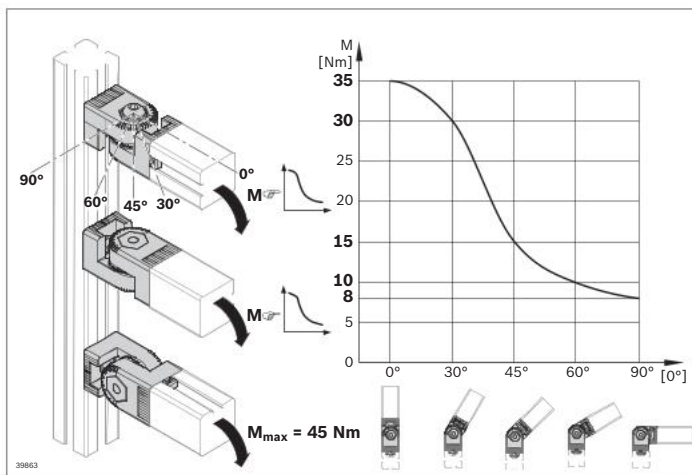
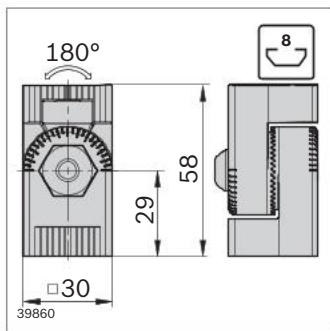
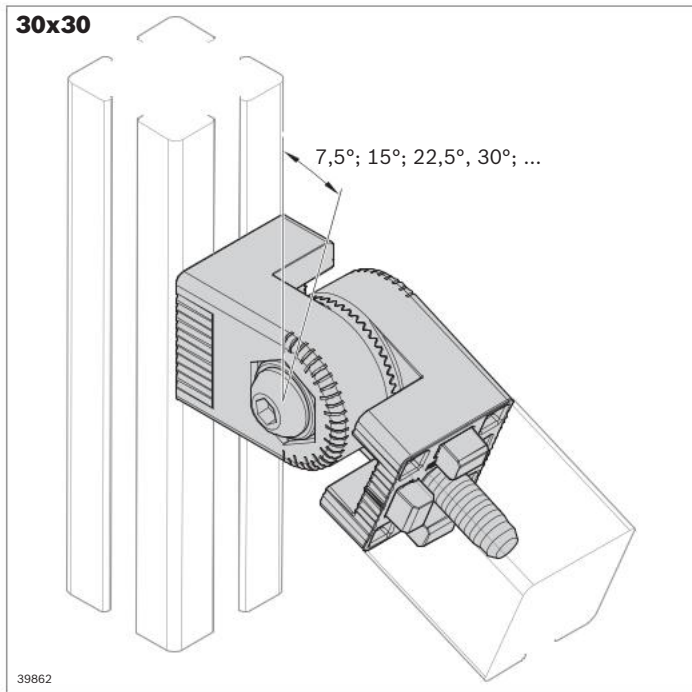
Required accessories:  
Bolt connector D11 for end face connections



Joint 30x30	Slot ESD No.	FS
<b>Standard</b>	8 <b>3 842 502 683</b>	2xFS1, 4xFS2
<b>designLINE</b>	8 <b>3 842 538 683</b>	2xFS1, 4xFS2

Material: Standard: Diecast zinc  
*designLINE*: painted, RAL 9006  
Fastening material: Steel; zinc-plated  
Scope of delivery: Incl. fastening material (FS)





### Joint 30x30 lockable



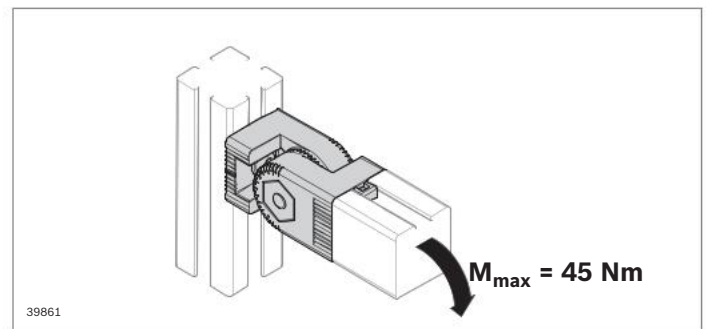
- ▶ For adjustable or rigid profile connections
- ▶ For high loads up to 45 Nm in the swivel direction
- ▶ Form fit thanks to Hirth teething
- ▶ Swivel range 180°
- ▶ Easy adjustment in the 7.5° modular dimensions
- ▶ Marking with a 7.5° graduation for easy detection of the adjustment angle
- ▶ Clamping and convenient adjustment of joint using a clamping lever or screw
- ▶ Profile finishing:  
Not required (self-cutting screw for end face to end face connections)
- ▶ Compatible with joint 30x30 (p. 4-3)

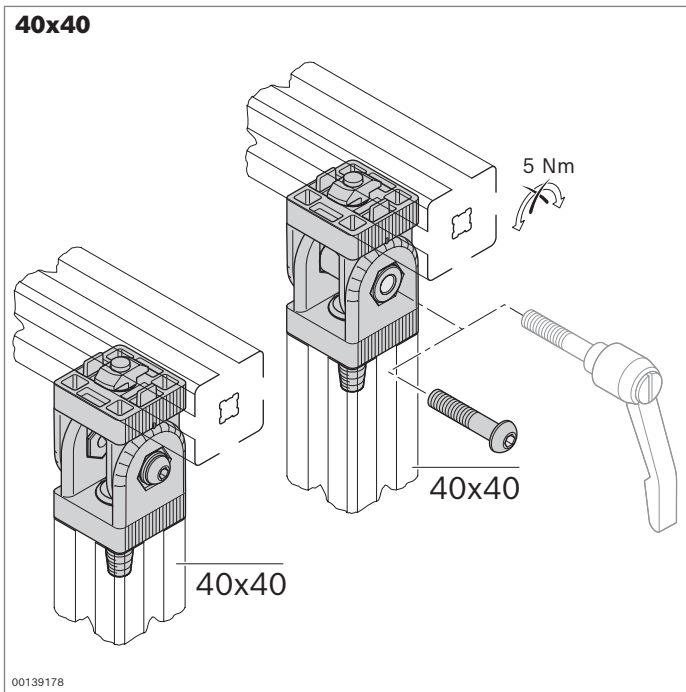
Joint 30x30 lockable	Slot	ESD	No.
	10		3 842 562 086

Material: Diecast zinc  
Fastening material: Steel; zinc-plated  
Scope of delivery: Incl. Fastening material

Clamping lever M8x30	No.
For joint 30x30 lockable	3 842 564 090

Material: Diecast zinc; black polymer coating

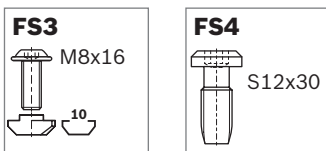
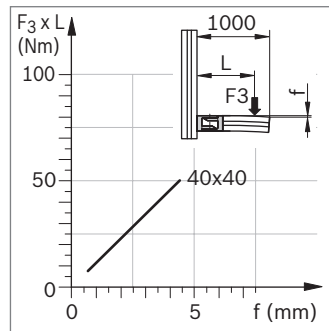
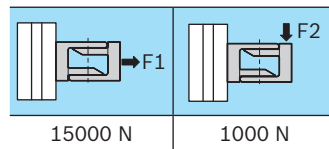
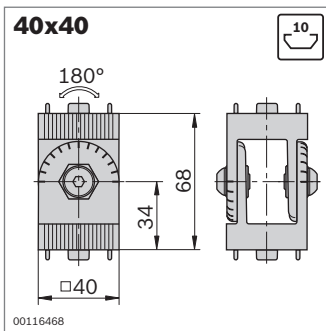




### Joint40x40, 40x40 support

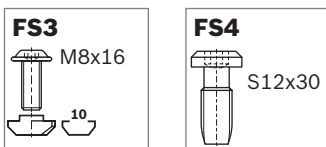
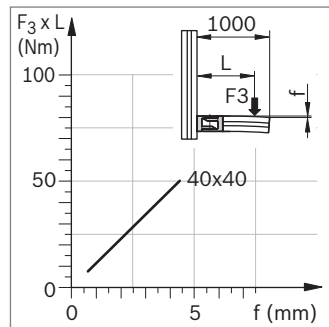
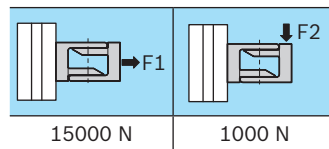
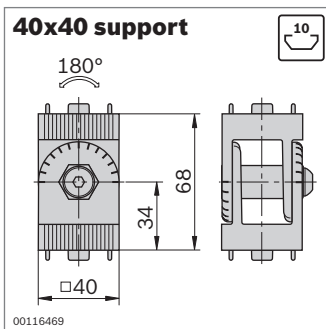


- ▶ For movable or rigid profile connections at any angle
- ▶ Swivel range 180°
- ▶ With a 15° graduation
- ▶ Joint can be clamped (5 Nm) or swivel mounted
- ▶ Clamping and convenient adjustment of support joint using a clamping lever (5 Nm)
- ▶ *designLINE* version with special silver paint (RAL 9006) for an attractive, high-quality design



Joint 40x40	Slot ESD	No.	FS
Standard	10	3 842 543 401	2xFS3, 2xFS4
<i>designLINE</i>	10	3 842 538 684	2xFS3, 2xFS4

Material: Standard: Diecast aluminum  
*designLINE*: painted, RAL 9006  
 Fastening material: Steel; zinc-plated  
 Scope of delivery: Incl. fastening material (FS)

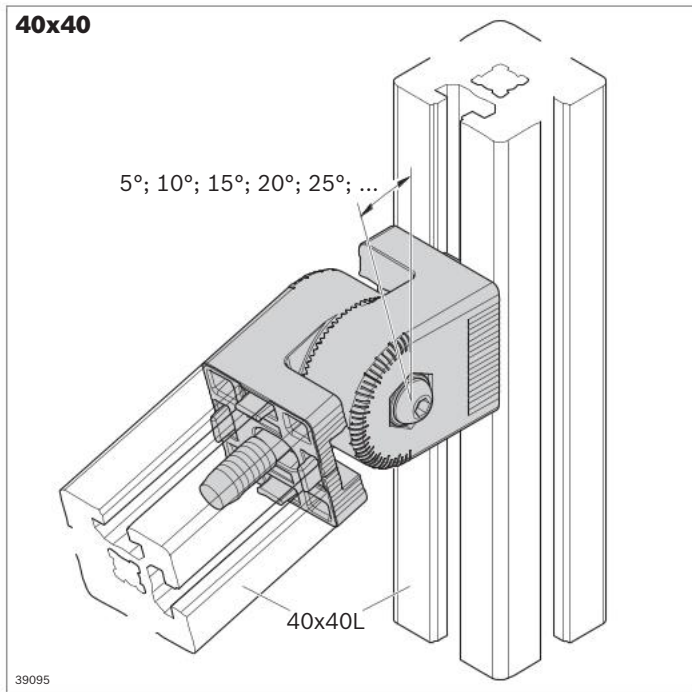


Joint 40x40 support	Slot ESD	No.	FS
Standard	10	3 842 543 402	2xFS3, 2xFS4
<i>designLINE</i>	10	3 842 538 685	2xFS3, 2xFS4

Material: Standard: Diecast aluminum  
*designLINE*: painted, RAL 9006  
 Fastening material: Steel; zinc-plated  
 Scope of delivery: Incl. fastening material (FS)

Clamping lever M8x40	No.
For joint 40x40 support	3 842 516 847

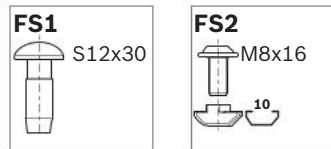
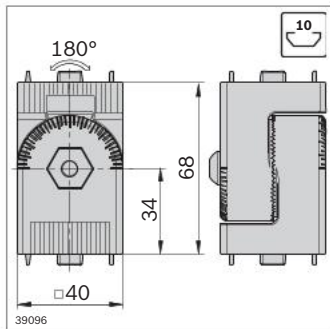
Material: Diecast zinc; black polymer coating



### Joint 40x40 lockable



- ▶ For adjustable or rigid profile connections
- ▶ For high loads up to 100 Nm in the swivel direction
- ▶ Form fit thanks to Hirth teething
- ▶ Swivel range 180°
- ▶ Easy adjustment in the 5° modular dimensions
- ▶ Marking with a 5° graduation for easy detection of the adjustment angle
- ▶ Clamping and convenient adjustment of joint using a clamping lever or screw
- ▶ Profile finishing: Not required (self-cutting screw for end face to end face connections)
- ▶ Compatible with joint 40x40 and joint 40x40 support (p. 4-5)

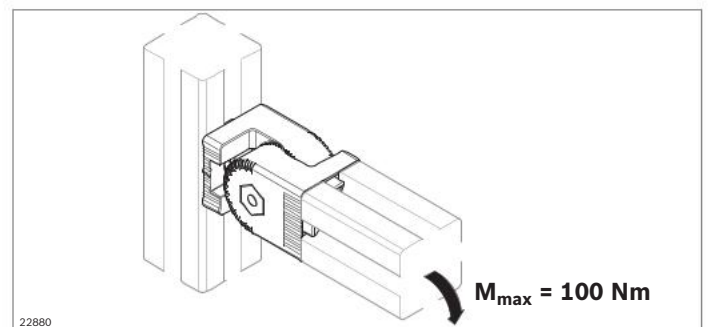
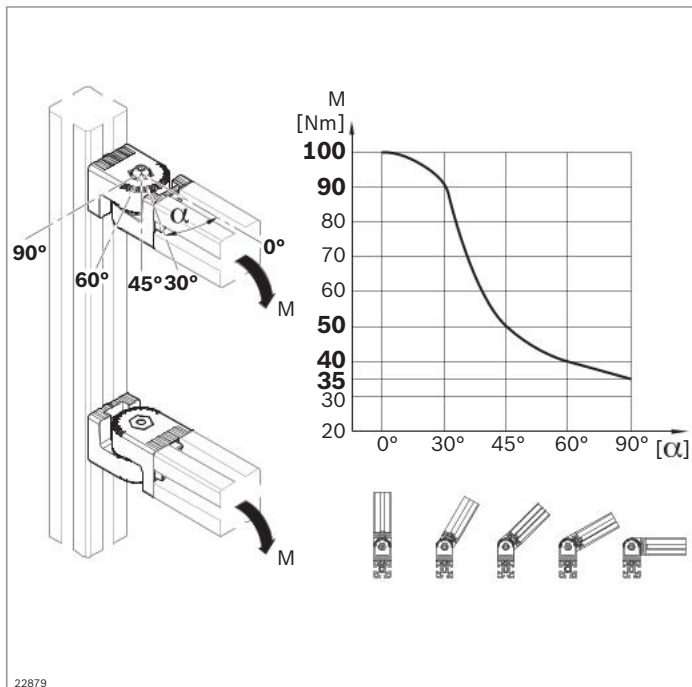


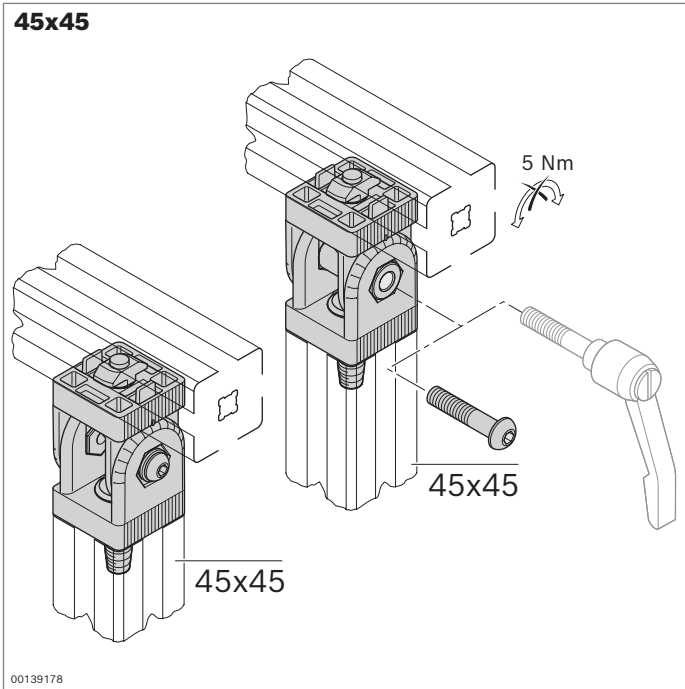
Joint 40x40 lockable	Slot ESD No.	FS
Standard	10	2xFS1, 2xFS2

Material: Diecast zinc  
Fastening material: Steel; zinc-plated  
Scope of delivery: Incl. fastening material (FS)

Clamping lever M8x40	No.
For joint 40x40 lockable	3 842 516 847

Material: Diecast zinc; black polymer coating

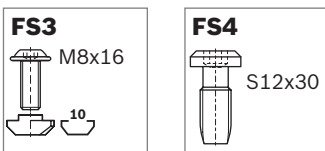
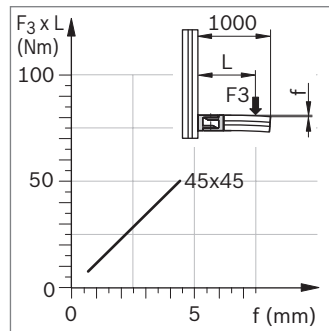
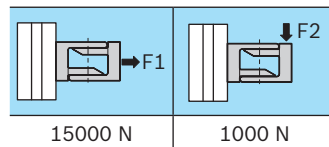
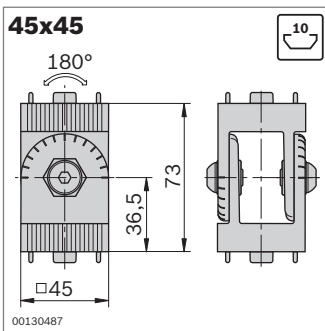




### Joint 45x45, 45x45 support



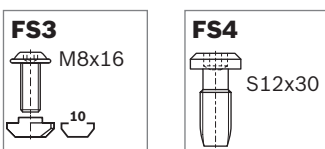
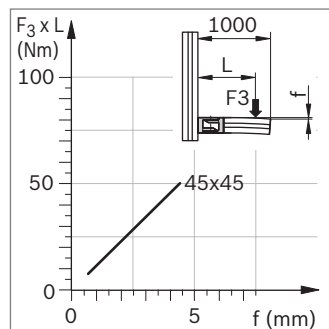
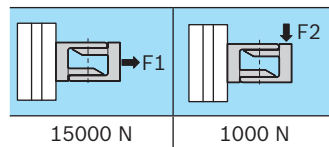
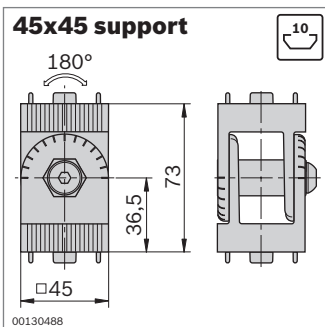
- ▶ For movable or rigid profile connections at any angle
- ▶ Swivel range 180°
- ▶ With a 15° graduation
- ▶ Joint can be clamped (5 Nm) or swivel mounted
- ▶ Clamping and convenient adjustment of support joint using a clamping lever (5 Nm)
- ▶ *designLINE* version with special silver paint (RAL 9006) for an attractive, high-quality design



Joint 45x45	Slot	ESD	No.	FS
<b>Standard</b>	10		<b>3 842 543 403</b>	2xFS3, 2xFS4
<b>designLINE</b>	10		<b>3 842 538 686</b>	2xFS3, 2xFS4

Material: Standard: Diecast aluminum  
*designLINE*: painted, RAL 9006  
Fastening material: Steel; zinc-plated

Scope of delivery: Incl. fastening material (FS)



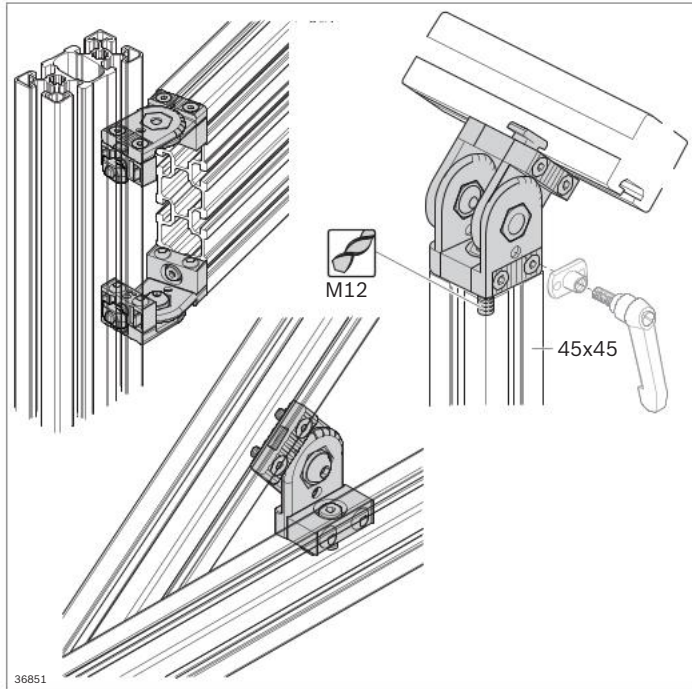
Joint 45x45 support	Slot	ESD	No.	FS
<b>Standard</b>	10		<b>3 842 543 404</b>	2xFS3, 2xFS4
<b>designLINE</b>	10		<b>3 842 538 687</b>	2xFS3, 2xFS4

Material: Standard: Diecast aluminum  
*designLINE*: painted, RAL 9006  
Fastening material: Steel; zinc-plated

Scope of delivery: Incl. fastening material (FS)

Clamping lever M8x45	No.
<b>For joint 45x45 support</b>	<b>3 842 538 607</b>

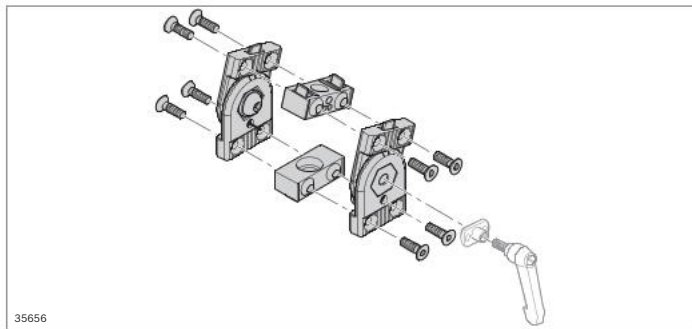
Material: Diecast zinc; black polymer coating



### Joint 45x45



- ▶ For movable or rigid profile connections at any angle
- ▶ Swivel range 182°
- ▶ With a 15° graduation
- ▶ Joint can be clamped (5 Nm) or swivel mounted
- ▶ Option of permanent fixing via pins (15 Nm)

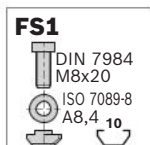
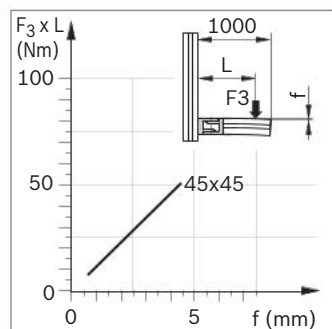
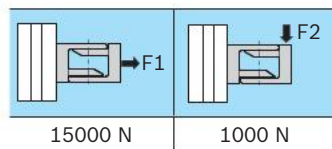
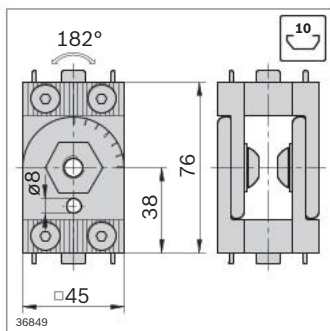


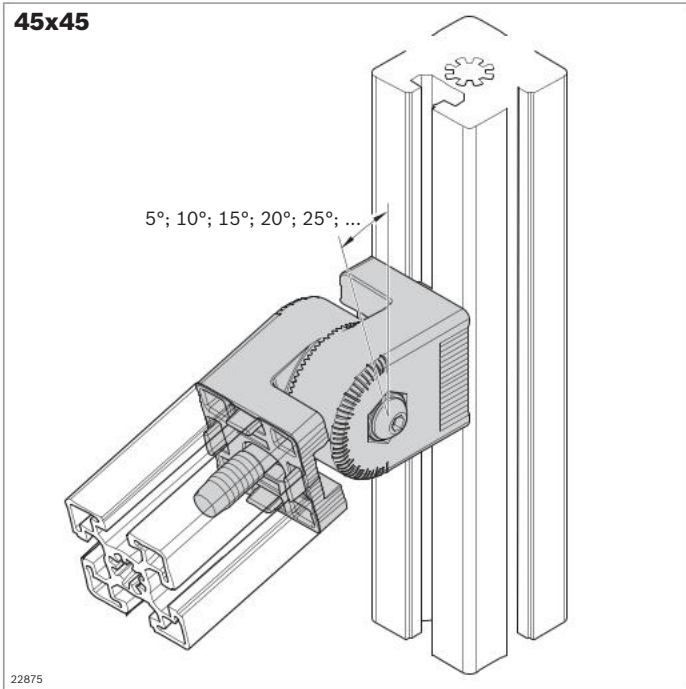
Joint 45x45	Slot	ESD No.	FS
Standard	10	3 842 502 684	2xFS1, 2xFS2

Material: Standard: Diecast zinc  
Fastening material: Steel; zinc-plated  
Scope of delivery: Incl. fastening material (FS)

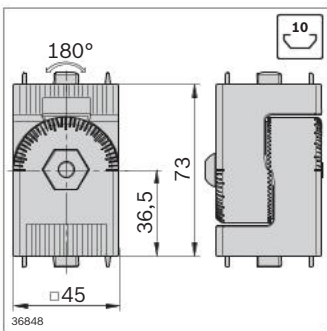
Clamping lever M5x10	ESD No.
For joint 45x45	3 842 505 144

Material: Diecast zinc; black polymer coating

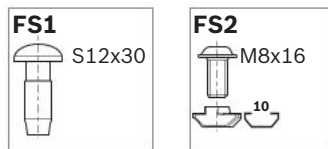




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### Joint 45x45 lockable



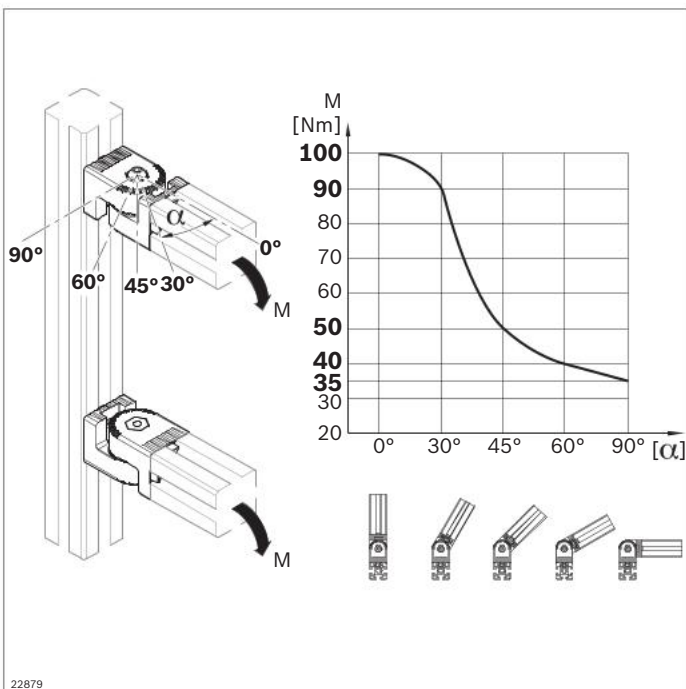
- ▶ For adjustable or rigid profile connections
- ▶ For high loads up to 100 Nm in the swivel direction
- ▶ Form fit thanks to Hirth teething
- ▶ Swivel range 180°
- ▶ Easy adjustment in the 5° modular dimensions
- ▶ Marking with a 5° graduation for easy detection of the adjustment angle
- ▶ Clamping and convenient adjustment of joint using a clamping lever or screw
- ▶ Profile finishing: Not required (self-cutting screw for end face to end face connections)
- ▶ Compatible with joint 45x45 and joint 45x45 support (p. 4-7)

Joint 45x45 lockable	Slot ESD No.	FS
	10	2xFS1, 2xFS2

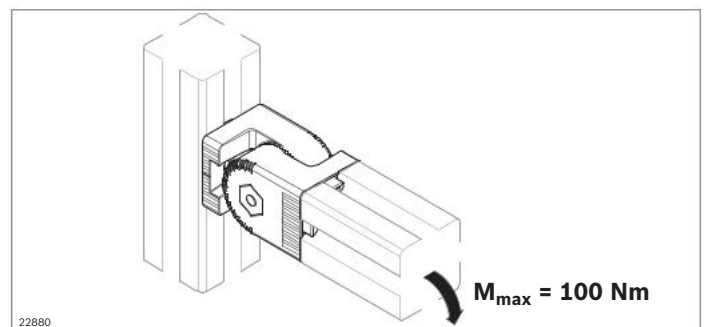
Material: Diecast zinc  
 Fastening material: Steel; zinc-plated  
 Scope of delivery: Incl. fastening material (FS)

Clamping lever M8x45	No.
For joint 45x45 lockable	3 842 538 607

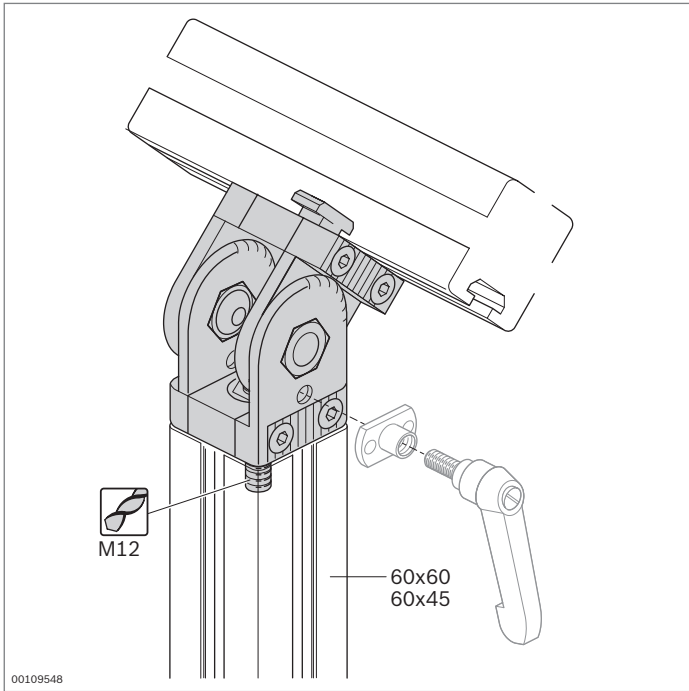
Material: Diecast zinc; black polymer coating



22879



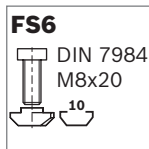
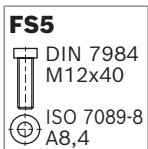
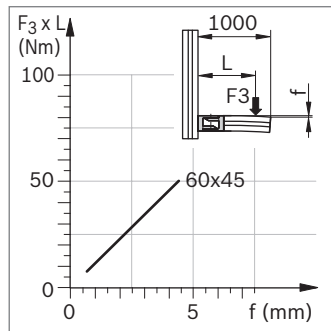
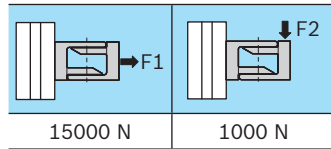
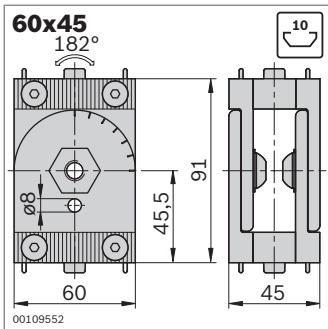
22880



## Joint 60x45, 60x60



- ▶ For movable or rigid profile connections at any angle
- ▶ Swivel range 182°
- ▶ With a 15° graduation
- ▶ Joint can be clamped (5 Nm) or swivel mounted
- ▶ Optional pins for permanent fixing (15 Nm)
- ▶ *designLINE* version with special silver paint (RAL 9006)
- ▶ Profile finishing:  
Thread (M12) in central hole for end-face connection



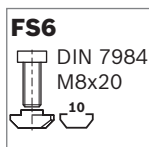
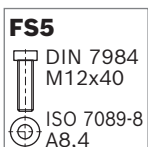
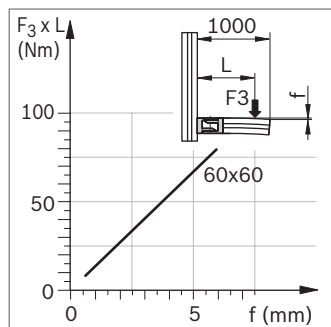
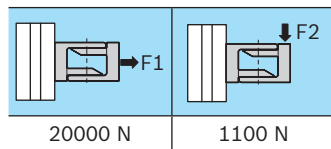
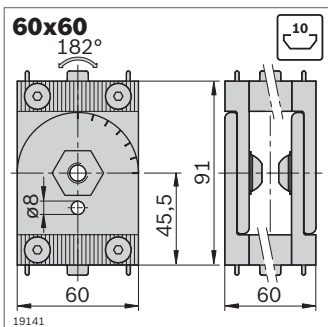
Joint 60x45	Slot	ESD	No.	FS
Standard	10		3 842 502 688	2xFS5, 2xFS6
<i>designLINE</i>	10		3 842 539 799	2xFS5, 2xFS6

Material: Standard: Diecast zinc  
*designLINE*: painted, RAL 9006  
Fastening material: Steel; zinc-plated

Scope of delivery: Incl. fastening material (FS)

Clamping lever M5x10	No.
For joint 60x45	3 842 505 144

Material: Diecast zinc; black polymer coating



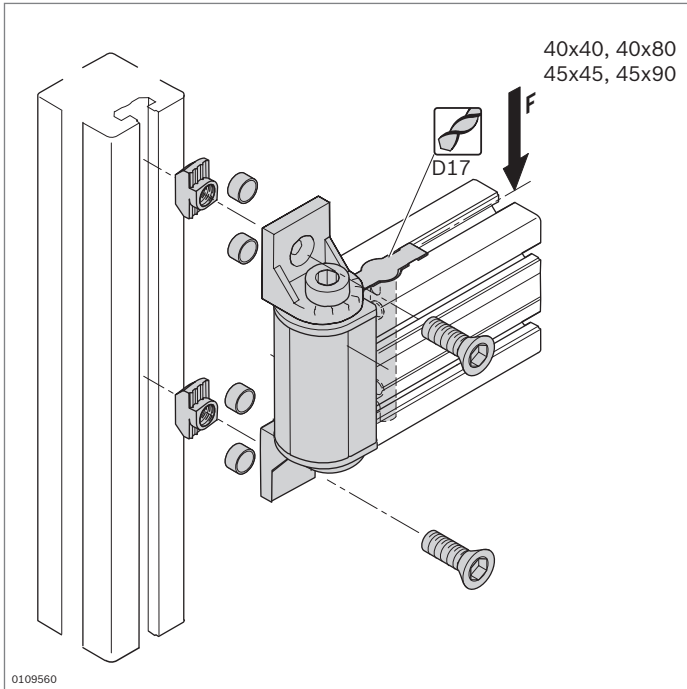
Joint 60x60	Slot	ESD	No.	FS
Standard	10		3 842 502 687	2xFS5, 2xFS6
<i>designLINE</i>	10		3 842 539 800	2xFS5, 2xFS6

Material: Standard: Diecast zinc  
*designLINE*: painted, RAL 9006  
Fastening material: Steel; zinc-plated

Scope of delivery: Incl. fastening material (FS)

Clamping lever M5x10	No.
For joint 60x60	3 842 505 144

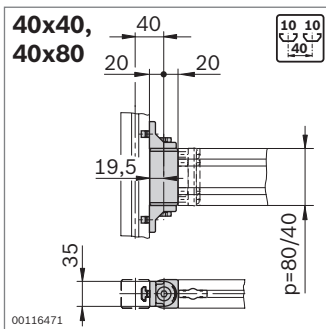
Material: Diecast zinc; black polymer coating



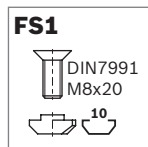
## Swivel bearing



- ▶ Suitable for swiveling right-angled profile connections, e.g. for constructing supporting arms or doors
- ▶ Can be locked in any position
- ▶ *designLINE* version with special silver paint (RAL 9006) for an attractive, high-quality design
- ▶ Profile finishing:  
Through-hole D17



Profile	$M_{max} = F \times L$ (Nm)
40x40	40
40x80	130

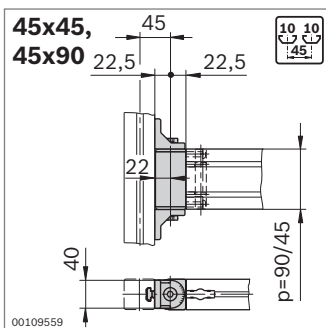


Swivel bearing	p (mm)	ESD No.	FS
40x40	Standard	40 *	<b>3 842 554 404</b> 2xFS1
	<i>designLINE</i>	40 *	<b>3 842 554 412</b> 2xFS1
40x80	Standard	80 *	<b>3 842 554 406</b> 2xFS1
	<i>designLINE</i>	80 *	<b>3 842 554 414</b> 2xFS1

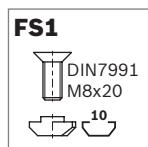
Material: Standard: Diecast aluminum  
*designLINE*: painted (RAL 9006)  
Fastening material: Steel; zinc-plated  
Cover cap: PP; signal gray

Scope of delivery: Incl. cover caps, bolt connectors, fastening material (FS)

\* Swivel bearing creates conductive connection, but the cover caps included in the set are not ESD-compatible.



Profile	$M_{max} = F \times L$ (Nm)
45x45	50
45x90	150

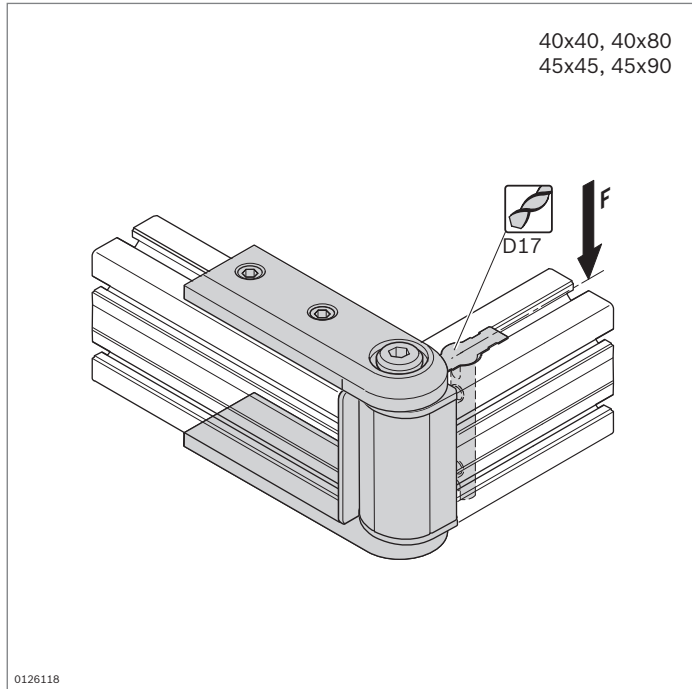


Swivel bearing	p (mm)	ESD No.	FS
45x45	Standard	45 *	<b>3 842 554 408</b> 2xFS1
	<i>designLINE</i>	45 *	<b>3 842 554 416</b> 2xFS1
45x90	Standard	90 *	<b>3 842 554 410</b> 2xFS1
	<i>designLINE</i>	90 *	<b>3 842 554 418</b> 2xFS1

Material: Standard: Diecast zinc  
*designLINE*: painted (RAL 9006)  
Fastening material: Steel; zinc-plated  
Cover cap: PP; signal gray

Scope of delivery: Incl. cover caps, bolt connectors, fastening material (FS)

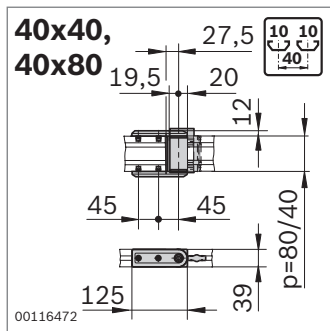
\* Swivel bearing creates conductive connection, but the cover caps included in the set are not ESD-compatible.



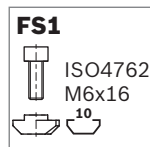
## Supporting arm joint



- ▶ Suitable for swiveling end connections, e.g. for the construction of supporting arms
- ▶ Can be locked in any position
- ▶ *designLINE* version with special silver paint (RAL 9006) for an attractive, high-quality design
- ▶ Profile finishing:  
Through-hole D17



Profile	$M_{max} = F \times L$ (Nm)
40x40	40
40x80	130

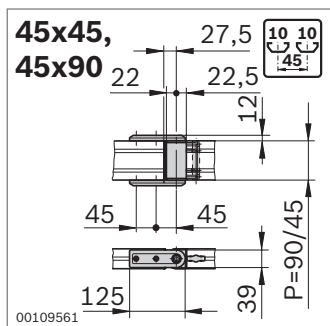


Supporting arm joint	p (mm)	ESD No.	FS
40x40 Standard	40	3 842 554 420	4xFS1
40x40 <i>designLINE</i>	40	3 842 554 428	4xFS1
40x80 Standard	80	3 842 554 422	4xFS1
40x80 <i>designLINE</i>	80	3 842 554 430	4xFS1

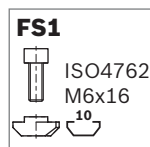
Material: Standard: Diecast zinc  
*designLINE*: painted (RAL 9006)  
Cover cap: PP; signal gray  
Fastening material: Steel; zinc-plated

Scope of delivery: Incl. cover caps, bolt connectors, fastening material (FS)

\* Supporting arm joint creates conductive connection, but the cover caps included in the set are not ESD-compatible.



Profile	$M_{max} = F \times L$ (Nm)
45x45	50
45x90	150

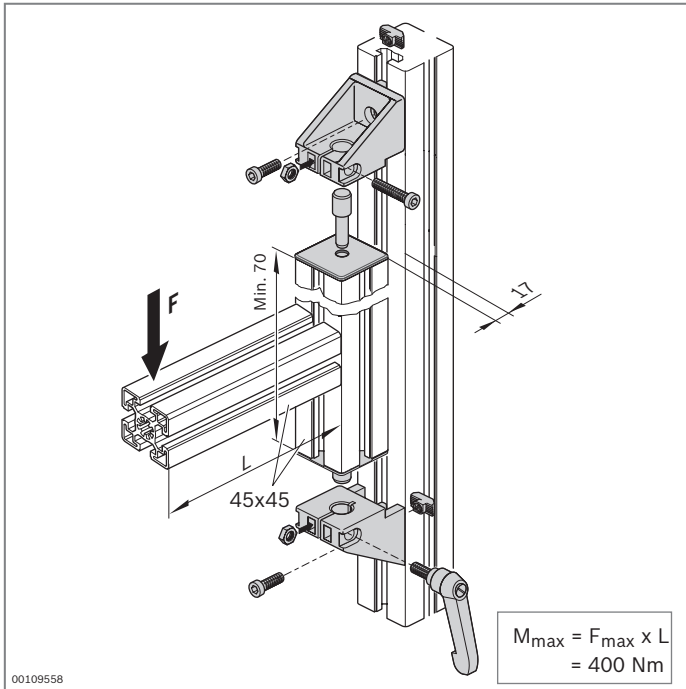


Supporting arm joint	p (mm)	ESD No.	FS
45x45 Standard	45	3 842 554 424	4xFS1
45x45 <i>designLINE</i>	45	3 842 554 432	4xFS1
45x90 Standard	90	3 842 554 426	4xFS1
45x90 <i>designLINE</i>	90	3 842 554 434	4xFS1

Material: Standard: Diecast zinc  
*designLINE*: painted (RAL 9006)  
Cover cap: PP; signal gray  
Fastening material: Steel; zinc-plated

Scope of delivery: Incl. cover caps, bolt connectors, fastening material (FS)

\* Supporting arm joint creates conductive connection, but the cover caps included in the set are not ESD-compatible.

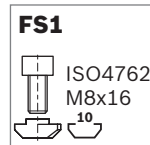
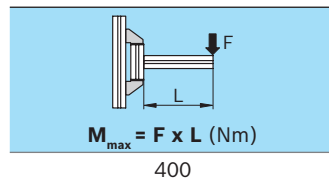
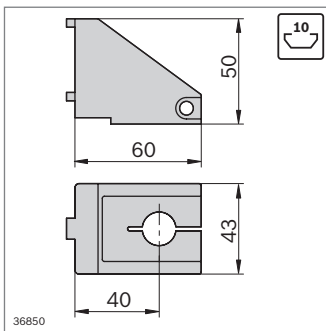


## Bearing pedestal



- ▶ Bearing pedestal for heavy superstructures which have to be swiveled
- ▶ *designLINE* version with special silver paint (RAL 9006) for an attractive, high-quality design

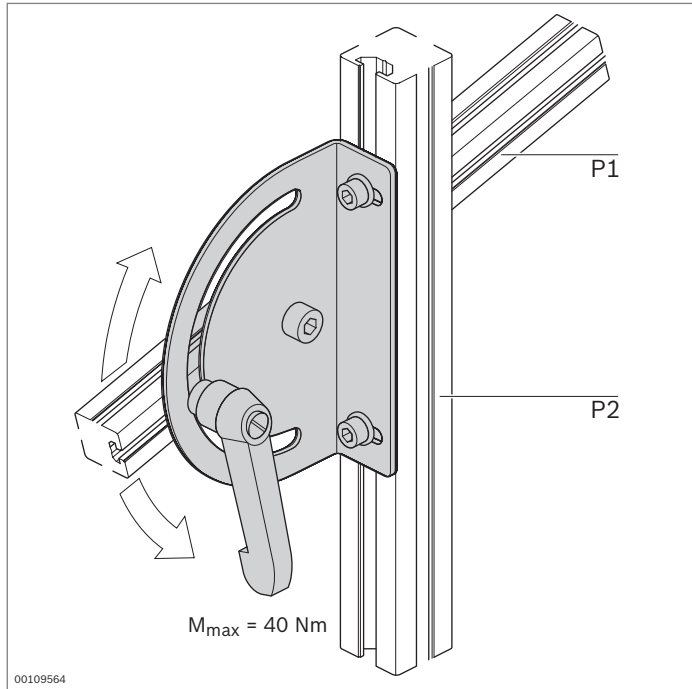
4



Bearing pedestal	Slot	No.	FS
Standard	10	3 842 547 868	2xFS1
<i>designLINE</i>	10	3 842 547 869	2xFS1

Material: Standard: Diecast zinc  
*designLINE*: painted (RAL 9006)  
 Fastening material: Steel; zinc-plated  
 Clamping lever handle: Diecast zinc; black plastic coated  
 Cover cap: PP; signal gray

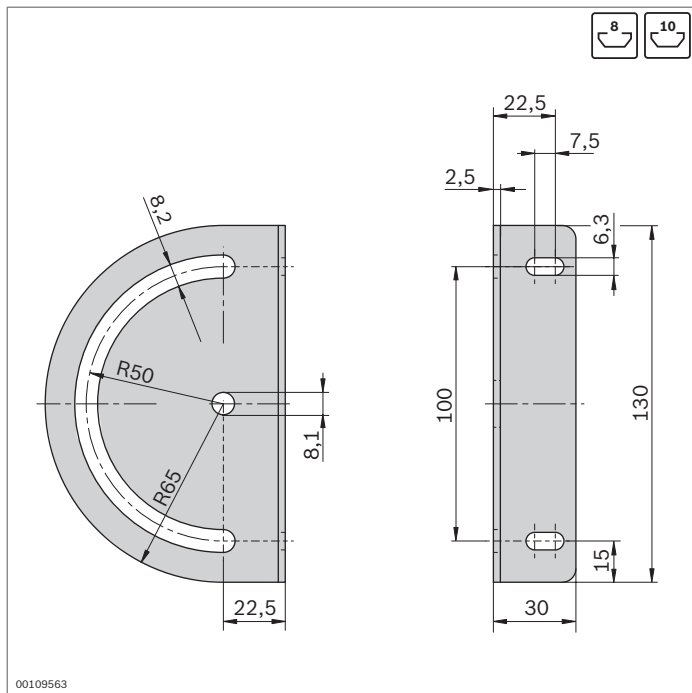
Scope of delivery: Incl. fastening material (FS), 2 x cover cap, 2 x bolt, clamping lever (and additional standard parts for clamping the bearing pedestal)



### Swivel mounting 180°



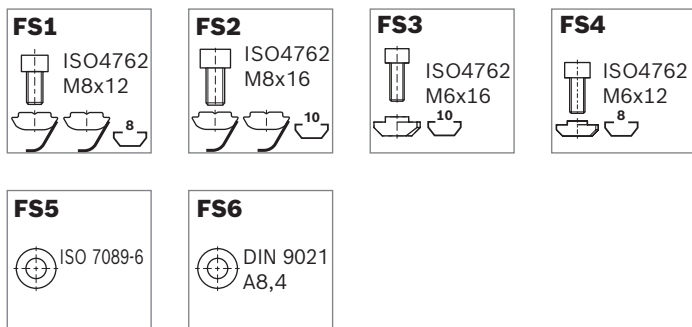
- Swivel mounting for shelves, etc. which need to be positioned at an angle of  $\pm 90^\circ$

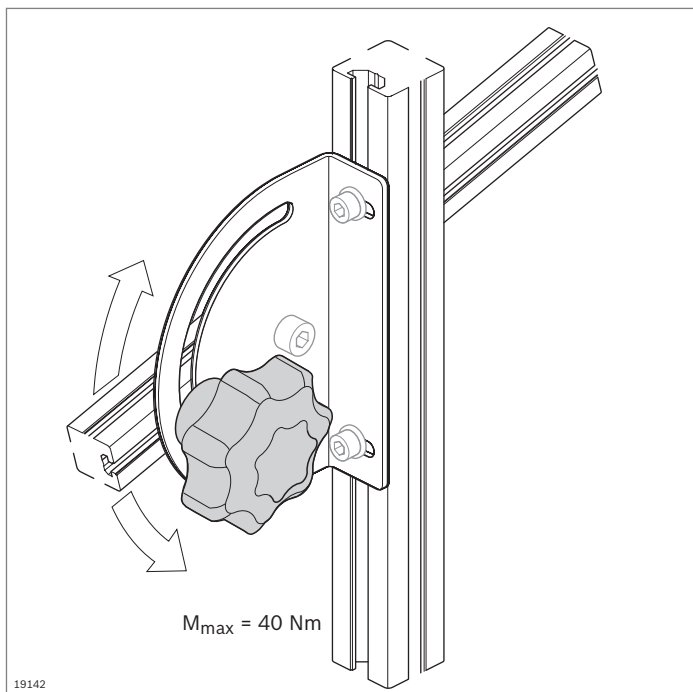


Swivel mounting 180°	P1 / P2	ESD	No.	FS
	8 / 8	⚠	<b>3 842 538 275</b>	FS1
	8 / 10			2xFS3
				2xFS4
				2xFS5
				1xFS6
	10 / 8	⚠	<b>3 842 538 276</b>	FS2
	10 / 10			2xFS3
				2xFS4
				2xFS5
				1xFS6

Material: Swivel mounting: Steel; zinc-plated  
Clamping lever: Diecast zinc; black plastic coated

Scope of delivery: Incl. fastening material (FS), clamping lever with disk and swivel-in sliding block with spring





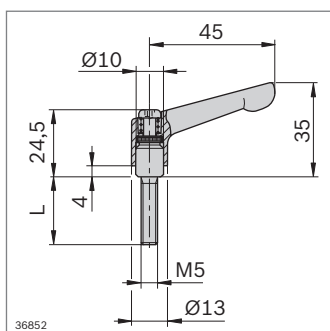
### Clamping lever, star knob



► Clamping elements for adjustable connections

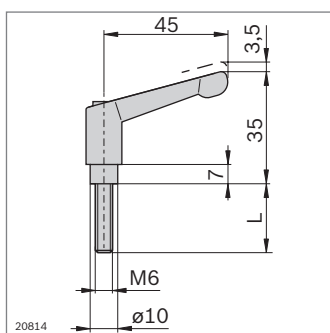
Accessories:

► Screws and sliding blocks; see fastening material (p. 4-14)



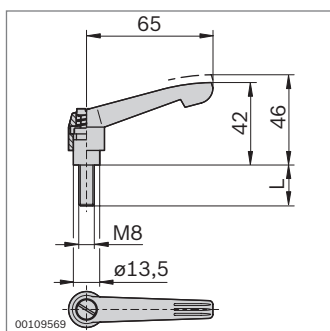
Clamping lever M5	L (mm)	No.
	10	3 842 505 144

Material: Clamping lever: Diecast zinc; black plastic coated  
Screws: Steel; bronzed



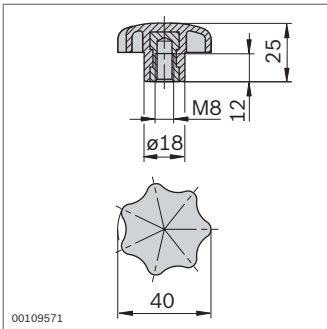
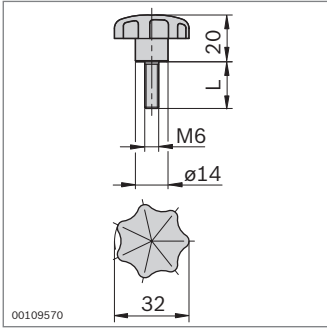
Clamping lever M6	L (mm)	No.
	25	3 842 528 540
	40	3 842 528 539

Material: Clamping lever: Diecast zinc; black plastic coated  
Screws: Steel; galvanized and black chromated



Clamping lever M8	L (mm)	No.
	12	3 842 516 845
	16	3 842 522 124
	20	3 842 516 846
	30	3 842 564 090
	40	3 842 516 847
	45	3 842 538 607
	55	3 842 516 848

Material: Clamping lever: Diecast zinc; black plastic coated  
Steel parts: zinc-plated, strength class 5.8



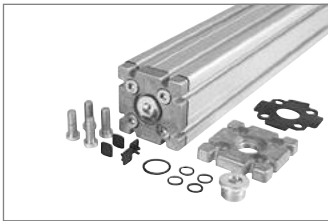
Star knob M6	L (mm)	No.
	15	<b>3 842 516 849</b>
	20	<b>3 842 516 850</b>

Material: Star knob: PA; black  
Steel parts: zinc-plated, strength class 5.8

Star knob M8	No.
	<b>3 842 516 851</b>

Material: Star knob: PA; black  
Steel parts: zinc-plated, strength class 5.8

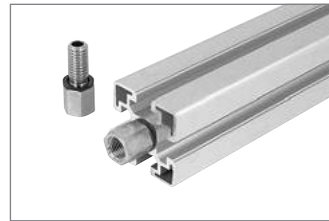
# Air-supply elements



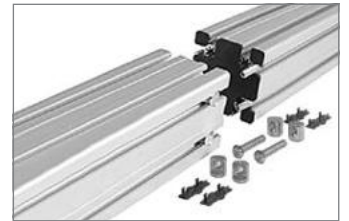
Flanged plate (p. 5-3)



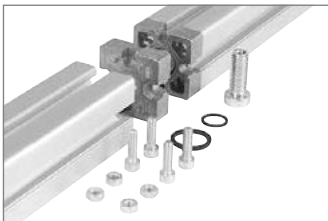
Connection piece (p. 5-4)



Connection screw fitting  
M12-1/4" (p. 5-4)



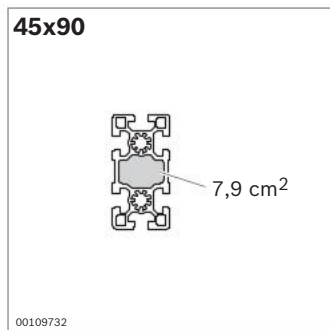
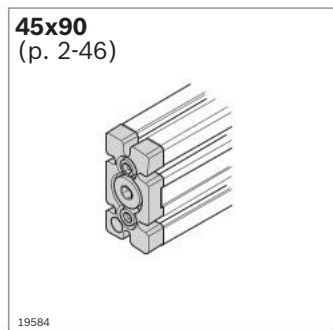
Longitudinal end  
connection (p. 5-5)



Longitudinal end connector  
45 Pneu (p. 5-6)

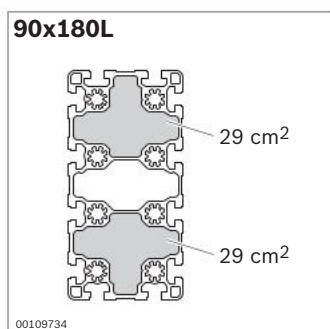
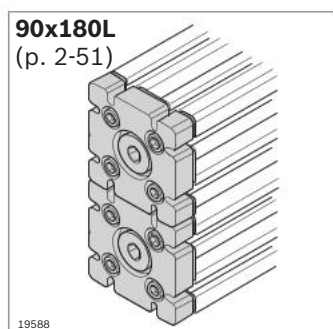
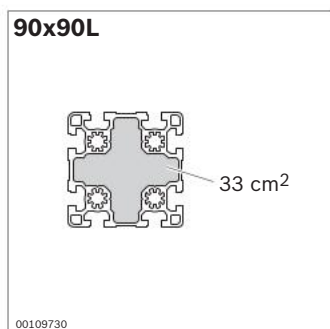
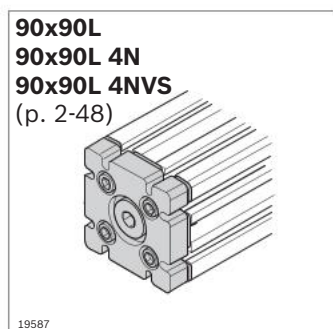
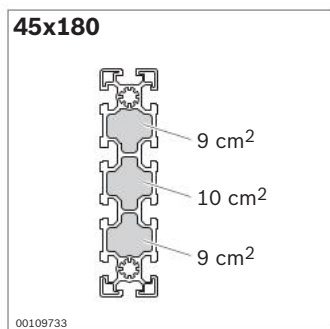
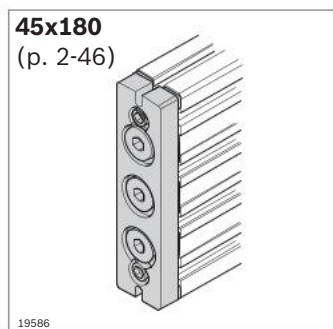
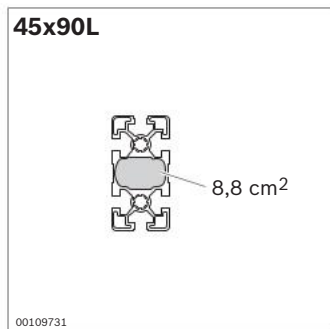
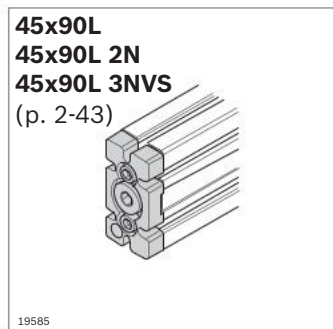


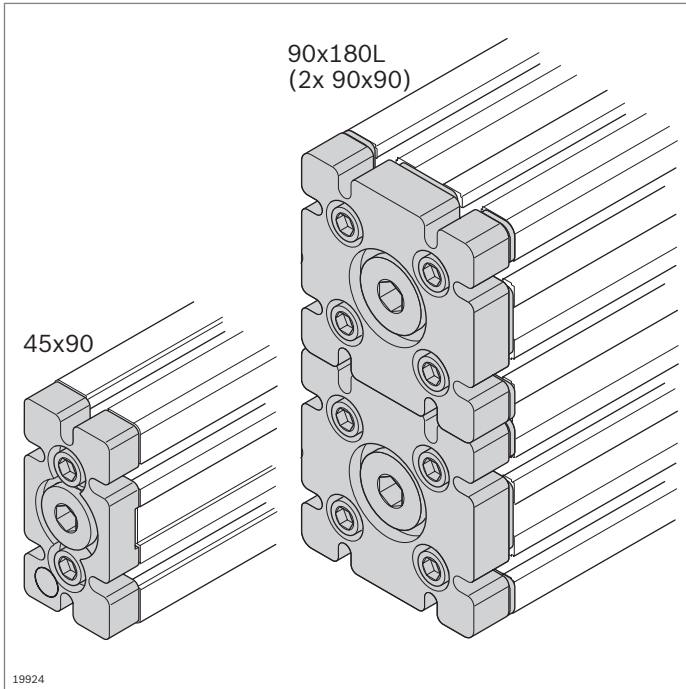
T-connector 45 Pneu  
(p. 5-6)



## Air-supply elements

- ▶ Rexroth **strut profiles** can be used as compressed-air lines and reservoirs. The hollow chambers or central holes are used
- ▶ **Flanged plate** for end closing of profiles (p. 5-3)
- ▶ Compressed-air intake or discharge at the flanged plate, **connection piece**, or **connection screw fitting** (p. 5-4)
- ▶ Air-tight connection of profiles with **longitudinal end connectors or T-connectors** (p. 5-6, 5-5)
- ▶ The use of the heavy-duty profiles is preferable in the case of more demanding leak-tightness requirements (e.g. for underwater applications)

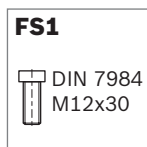
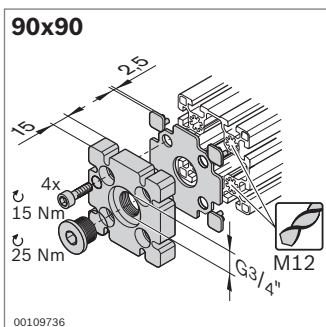
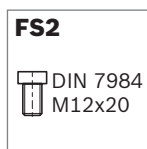
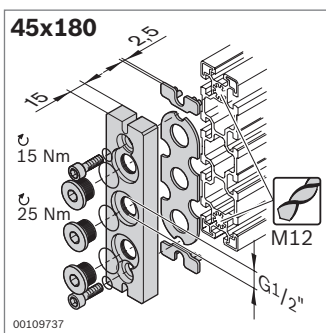
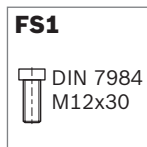
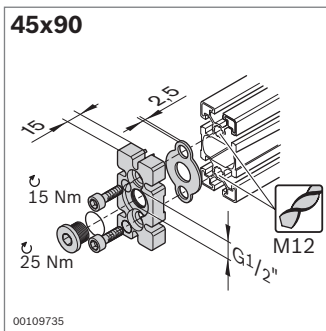




## Flanged plate



- ▶ For sealing the ends of the hollow chambers.  
This enables the profiles to be used as a compressed-air line (p. 5-2)
- ▶ For compressed-air introduction or removal when screw plugs are replaced by pneumatic screw fittings
- ▶ Profile finishing: M12 thread cutting in the central holes
- ▶ For a maximum pressure ( $p_{max}$ ) of 8 bar
- ▶ Operating temperature range of the seals: -10 °C to +70 °C



Flanged plate	No.	FS
45x90	3 842 523 097	2xFS1

Material: Flanged plate: Diecast aluminum  
Seal: NBR  
Fastening material: Steel; zinc-plated

Scope of delivery: Incl. fastening material (FS), screw plug, seals

Flanged plate	No.	FS
45x180	2 3 842 535 721	2xFS2

Material: Flanged plate: Aluminum  
Seal: NBR  
Fastening material: Steel; zinc-plated

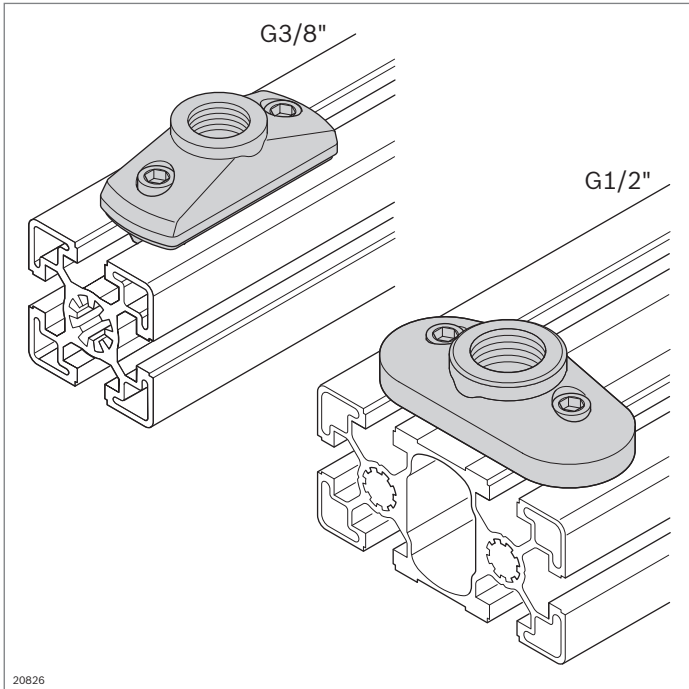
Scope of delivery: Incl. fastening material (FS), 2 x spacer, 3 x screw plug, seals

Flanged plate	No.	FS
90x90	3 842 523 098	4xFS1

Material: Flanged plate: Diecast aluminum  
Seal: NBR  
Fastening material: Steel; zinc-plated

Scope of delivery: Incl. fastening material (FS), 4 x spacer, screw plug, seals

**Notice:** Only suitable for light profiles 90x90L and 90x180L.

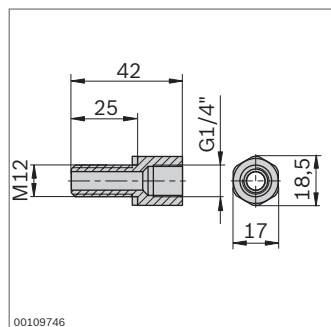
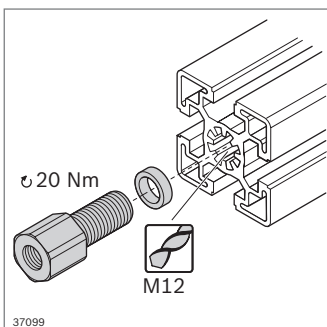
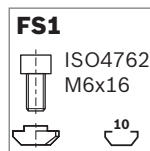
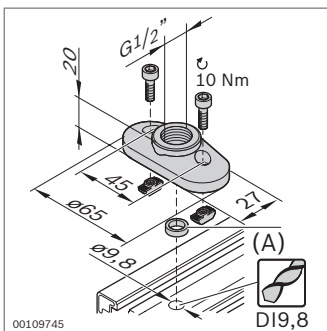
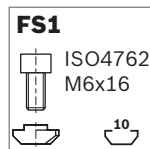
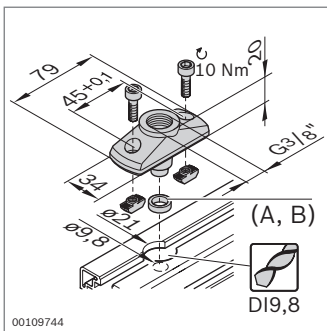


### Connection piece Connection screw fitting M12-1/4"



#### Connection piece

- ▶ For compressed-air intake or discharge at any point on the profile
- ▶ G3/8" for connection at central hole
- ▶ G1/2" for connection at hollow chamber
- ▶ Suitable for light and standard profiles
  - Profile finishing: Blind hole DI9.8; blind hole  $\varnothing 21$  mm (drilling jig **3 842 528 574**, p. 14-3)
- ▶ For a maximum pressure ( $p_{max}$ ) of 8 bar



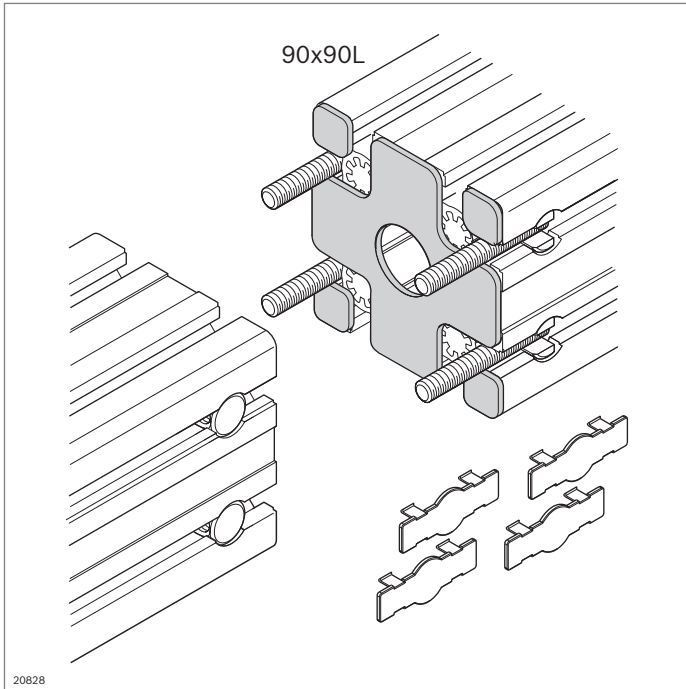
Connection piece	No.	FS
<b>G3/8"</b>	<b>3 842 523 092</b>	2xFS1
Material:	Connection piece: Diecast aluminum Seal: NBR	
Scope of delivery:	Incl. fastening material, seals <b>(A, B)</b>	
Accessories:	Seals <b>A, B</b> (p. 5-6)	

Connection piece	No.	FS
<b>G1/2"</b>	<b>3 842 352 085</b>	2xFS1
Material:	Connection piece: Diecast zinc Seal: NBR	
Scope of delivery:	Incl. fastening material, seal <b>(A)</b>	
Accessories:	Seal <b>A</b> (p. 5-6)	

### Connection screw fitting M12-1/4"

- ▶ For screw fitting in central hole
- ▶ Profile finishing: M12
- ▶ For a maximum pressure ( $p_{max}$ ) of 8 bar

Connection screw fitting	No.
<b>M12-1/4"</b>	<b>10 3 842 535 719</b>
Material:	Connection screw fitting: Steel; zinc-plated Seal: PVC; hard
Scope of delivery:	Incl. Seal



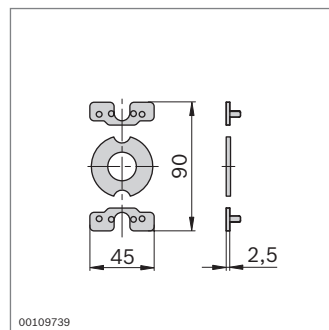
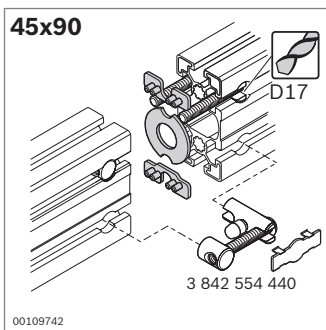
### Longitudinal end connection



- ▶ Seal for end-to-end connection of profiles carrying compressed air
- ▶ Profile finishing: Through-hole D17 (45x90, 45x180); blind hole LF (90x90L)
- ▶ For a maximum pressure ( $p_{max}$ ) of 8 bar
- ▶ Operating temperature range of the seals: -10 °C to +70 °C

Required accessories:

Longitudinal end connector for profile connection (p. 3-63)

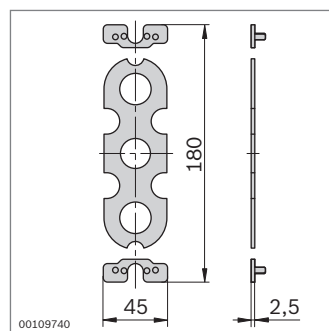
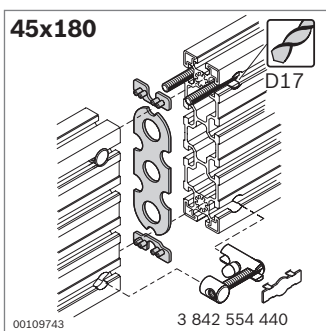


Longitudinal end connection	No.
-----------------------------	-----

<b>45x90</b>	<b>3 842 508 087</b>
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Material: Seal: NBR  
Spacer: PA

Scope of delivery: Seal, 2 x spacer

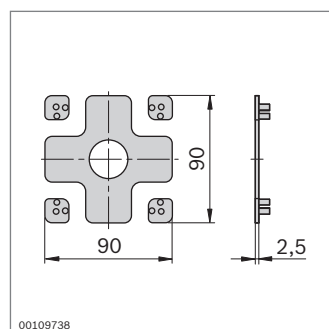
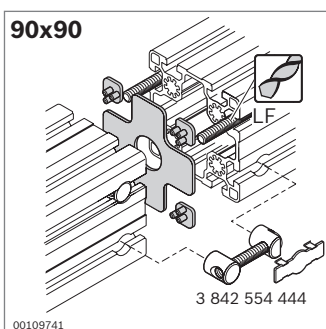


Longitudinal end connection	No.
-----------------------------	-----

<b>45x180</b>	<b>3 842 508 088</b>
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Material: Seal: NBR  
Spacer: PA

Scope of delivery: Seal, 2 x spacer



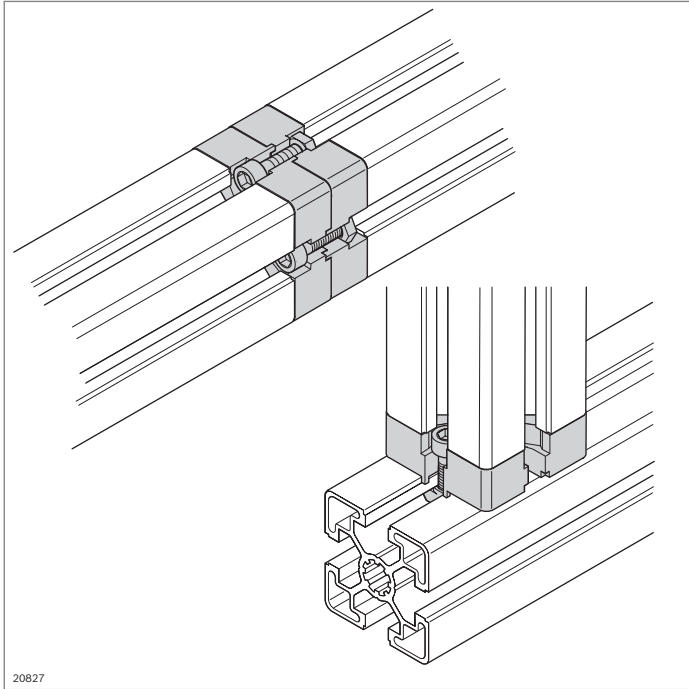
Longitudinal end connection	No.
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<b>90x90</b>	<b>3 842 510 145</b>
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Material: Seal: NBR  
Spacer: PA

Scope of delivery: Seal, 4 x spacer

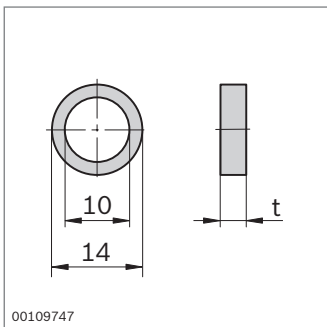
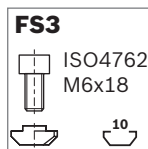
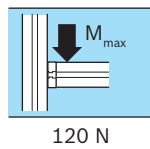
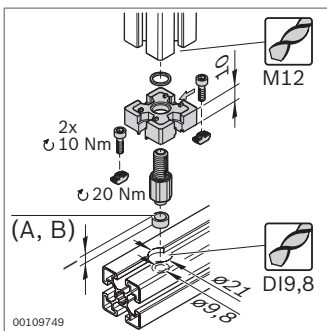
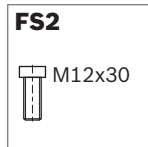
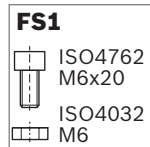
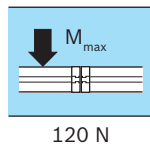
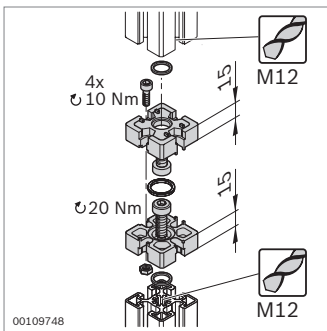
**Notice:** Only suitable for light profile 90x90L.



### Longitudinal end connector 45 Pneu T-connector 45 Pneu, seal



- ▶ Longitudinal end connector 45 Pneu for end face mechanical and pneumatic connections of two 45x45 or 45x45L profiles for using the central hole as a compressed-air line
- ▶ T-connector 45 Pneu for the mechanical and pneumatic connection of two 45x45 or 45x45L profiles at under a 90° angle for using the central hole as a compressed-air line
- ▶ Profile finishing: M12 in central hole; blind hole  $\text{D}19.8$ ; blind hole  $\text{ø}21$  mm (drilling jig **3 842 528 574**, p. 14-3)
- ▶ For a maximum pressure ( $p_{\text{max}}$ ) of 8 bar



Longitudinal end connector	No.	FS
45 Pneu	3 842 523 094	4xFS1, 2xFS2

Material: Longitudinal end connector: Diecast aluminum  
Seal: NBR

Scope of delivery: Incl. fastening material, sealing rings

T-connector	No.	FS
45 Pneu	3 842 523 093	2xFS3

Material: T-connector: Diecast aluminum  
Seal: NBR

Scope of delivery: Incl. fastening material, seals (A, B) for standard and light profiles

- ▶ Seal for connection piece and T-connector

Seal	t (mm)	No.
A For standard profiles	4 10	3 842 503 242
B For light profiles	7 10	3 842 523 102

Material: NBR

# Feet and wheels



Modular leveling feet  
(p. 6-2)



Leveling foot, foot,  
damping ring (p. 6-4)

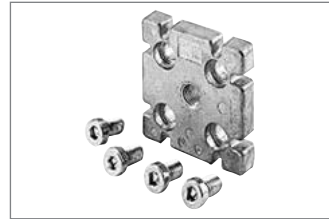


Plate (p. 6-6)



Base plate, steel (p. 6-8)



Base plate (p. 6-10)



Base plate (p. 6-11)



Foot (p. 6-13)



Double wheel (p. 6-15)



Wheel (p. 6-16)



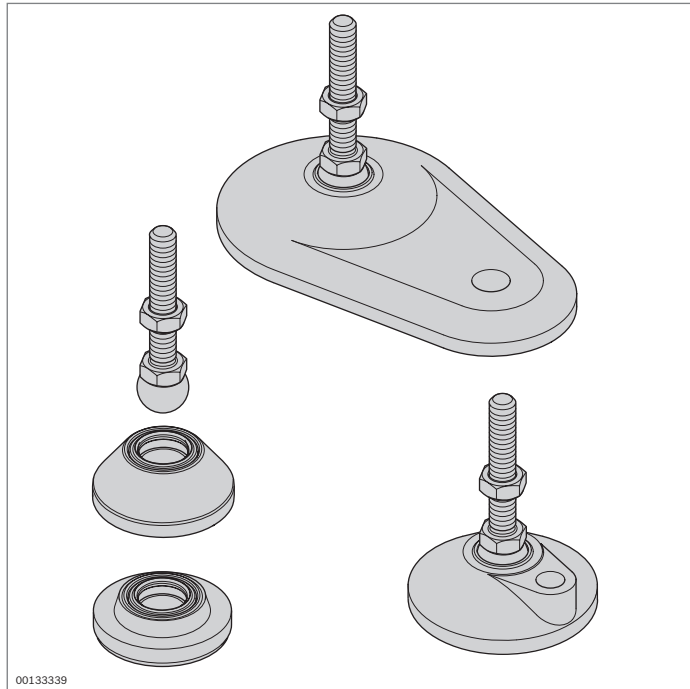
Heavy-duty wheel (p. 6-19)



Lifting wheel (p. 6-21)



Roller with mounting flange  
(p. 6-23)



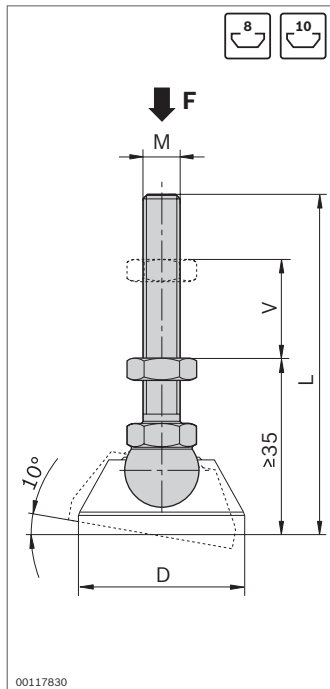
### Modular leveling feet



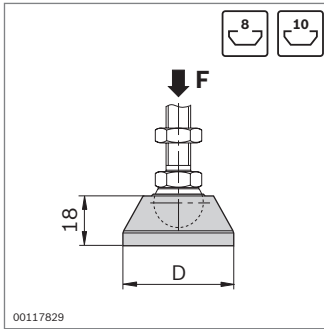
- ▶ Leveling feet for compensating irregularities in the floor up to 10°
  - Modular system, various combinations possible
  - Spindles and base plates can be combined as desired
  - Base plates with screw hole for simple screw fitting to the floor
- ▶ The damping plate prevents the transfer of vibrations and allows a defined conduction of voltages via a set of grounding components (p. 17-2)
- ▶ Profile finishing: Thread M in central hole

Accessories: Bearing ring (p. 6-15)

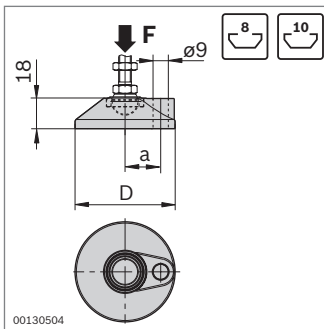
Accessories, optional: Metal bracket 103x103x37, D12.5 (p. 3-35)



Spindle	F (N)	M	L (mm)	V (mm)	ESD	No.
<b>Stainless steel</b>	10000	M8	75	20		20 <b>3 842 536 811</b>
	20000	M12	85	30		20 <b>3 842 536 812</b>
	20000	M12	145	80		20 <b>3 842 537 223</b>
	20000	M12	200	135		20 <b>3 842 537 225</b>
	30000	M16	85	20		20 <b>3 842 537 227</b>
	30000	M16	145	80		20 <b>3 842 537 229</b>
<b>Steel; zinc-plated</b>	30000	M16	200	135		20 <b>3 842 537 231</b>
	10000	M8	75	20		20 <b>3 842 537 220</b>
	20000	M12	85	30		20 <b>3 842 537 222</b>
	20000	M12	145	80		20 <b>3 842 537 224</b>
	20000	M12	200	135		20 <b>3 842 537 226</b>
	30000	M16	85	20		20 <b>3 842 537 228</b>
	30000	M16	145	80		20 <b>3 842 537 230</b>
	30000	M16	200	135		20 <b>3 842 537 232</b>

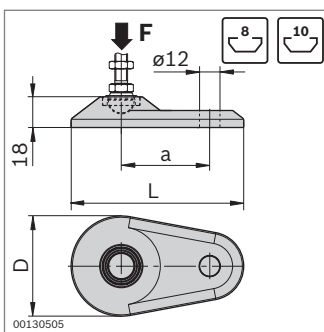


Base plate	F (N)	D (mm)	ESD	No.
Stainless steel	20000	29	20	<b>3 842 536 694</b>
	30000	39	20	<b>3 842 536 695</b>
	30000	44	20	<b>3 842 536 696</b>
	30000	59	20	<b>3 842 538 673</b>
	30000	79	20	<b>3 842 537 206</b>
Diecast zinc, black powder coating	20000	29	20	<b>3 842 538 674</b>
	30000	39	20	<b>3 842 538 675</b>
	30000	44	20	<b>3 842 538 676</b>
	30000	59	20	<b>3 842 538 677</b>
	30000	79	20	<b>3 842 538 678</b>
PA; black	5000	29	20	<b>3 842 538 832</b>
	9000	39	20	<b>3 842 538 833</b>
	9000	44	20	<b>3 842 538 834</b>
	9000	59	20	<b>3 842 538 835</b>
	9000	79	20	<b>3 842 538 836</b>



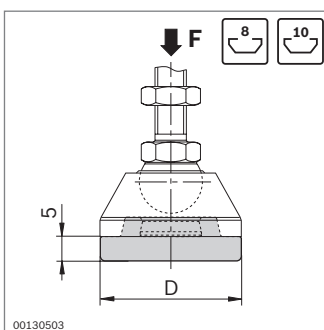
Base plate with screw hole	F (N)	D (mm)	a (mm)	No.
	30000	59	21	<b>3 842 538 932</b>
	30000	79	31	<b>3 842 538 934</b>

Material: Diecast zinc, black powder coating



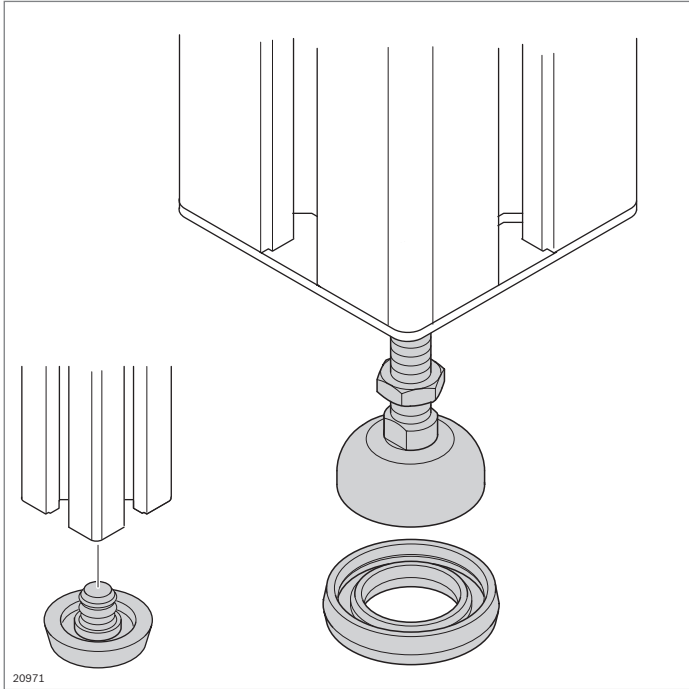
Oval base plate with screw hole	F (N)	D (mm)	a (mm)	L (mm)	No.
	30000	59	52	100	<b>3 842 538 679</b>
	30000	79	65	130	<b>3 842 538 680</b>

Material: Diecast zinc, black powder coating



Damping plate	F (N)	D (mm)	No.
	1100	29	<b>3 842 538 555</b>
	1600	39	<b>3 842 538 556</b>
	2000	44	<b>3 842 538 557</b>
	2500	59	<b>3 842 538 558</b>
	2800	79	<b>3 842 538 559</b>

Material: PUR; black



### Leveling foot, foot, damping ring



#### Leveling foot

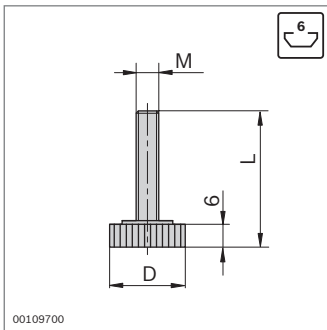
- ▶ For compensating irregularities in the floor up to 5°
- ▶ Fully assembled spindle and base plate
- ▶ Profile finishing: Threading in central hole

#### Damping ring

- ▶ The electrically insulating damping ring prevents the transfer of vibrations and allows a defined conduction of voltages via a set of grounding components (p. 17-2)

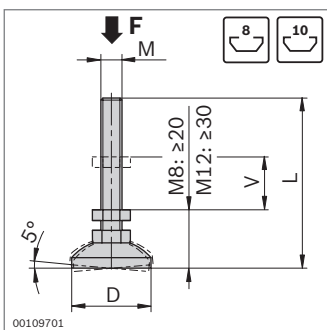
Accessories, optional:

Bearing ring (p. 6-15), for when cover caps with a hole are used, metal bracket 103x103x37, D12.5 (p. 3-35)



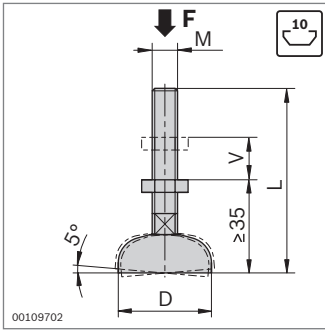
Leveling foot	M	D (mm)	L (mm)	ESD	No.
	M6	20	41	20	<b>3 842 518 743</b>

Material: Steel/plastic



Leveling foot	F (N)	M	D (mm)	L (mm)	V (mm)	ESD	No.
	5000	M8	30	65	15	⚡	20 <b>3 842 502 257</b>
	8000	M12	30	72	14	⚡	20 <b>3 842 529 025</b>

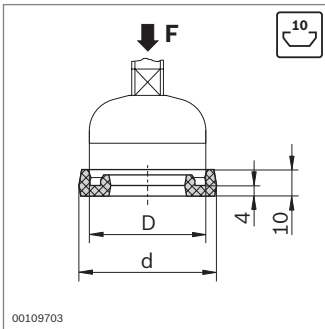
Material: Steel; zinc-plated



00109702

Leveling foot	F (N)	M	D (mm)	L (mm)	V (mm)	ESD	No.
	10000	M12	44	85	30		20 <b>3 842 352 061</b>
	20000	M16	44	145	80		20 <b>3 842 311 956</b>
	10000	M12	44	160	80		20 <b>3 842 536 470</b>
	20000	M16	44	200	135		20 <b>3 842 554 149</b>
	10000	M12	58	85	30		20 <b>3 842 511 893</b>
	20000	M16	90	85	20		20 <b>3 842 311 950</b>
	20000	M16	90	145	80		20 <b>3 842 311 951</b>
	20000	M16	90	200	135		20 <b>3 842 527 186</b>

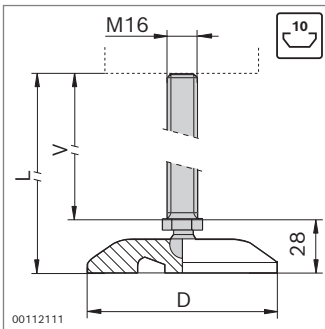
Material: Steel; zinc-plated



00109703

Damping ring	F (N)	D (mm)	d (mm)	No.
	1600	30	39	20 <b>3 842 529 024</b>
	2000	44	52	20 <b>3 842 521 817</b>
	2500	58	66	20 <b>3 842 522 301</b>
	3000	90	98	20 <b>3 842 522 303</b>

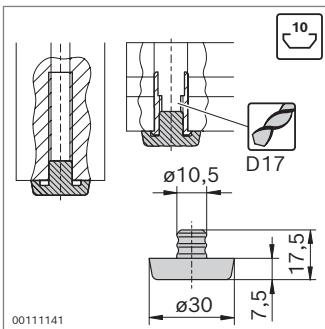
Material: PUR; natural, hardness: Shore A 70-80



00112111

Leveling foot	F (N)	M	D (mm)	L (mm)	V (mm)	No.
	15000	M16	80	95	55	1 <b>3 842 533 310</b>

Material: Spindle: Stainless steel  
Base plate: PA



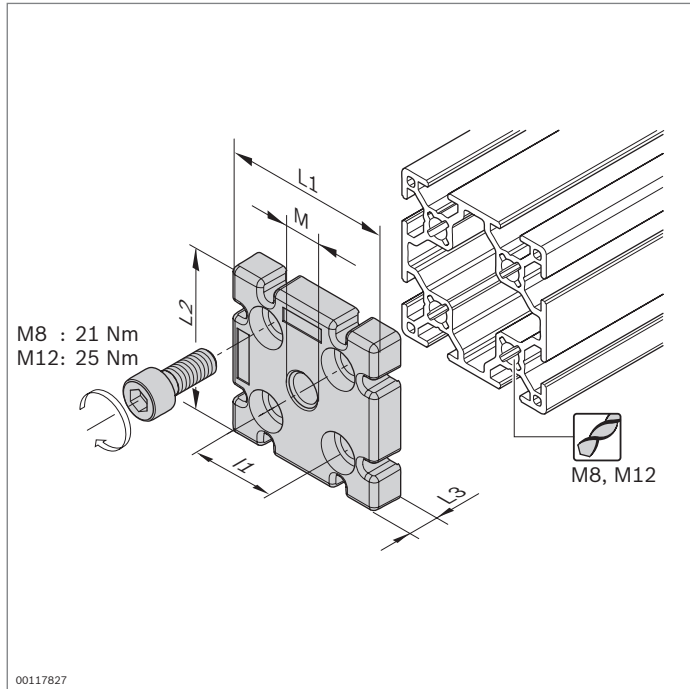
00111141

Foot	No.
	100 <b>3 842 563 296</b>

Material: TPE; black

Accessories, optional:

- ▶ Threaded sleeve **3 842 504 790** (p. 6-7)



### Plate



- ▶ For fastening leveling feet in profiles without a central hole
- ▶ For use as an end connector or T-connector
- ▶ Profile finishing: Tapping of thread in the central hole

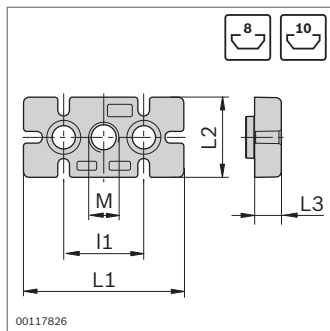


Plate	F (N)	M	L1 (mm)	I1 (mm)	L2 (mm)	L3 (mm)	No.	FS
<b>30x60</b>	8000	M12	60	30	30	11	<b>3 842 536 560</b>	2xFS1
<b>40x80</b>	10000	M12	80	40	40	15	<b>3 842 536 562</b>	2xFS2
<b>45x90</b>	20000	M16	90	45	45	15	<b>3 842 536 564</b>	2xFS2

Material: Plate: Diecast aluminum  
Fastening material: Steel; zinc-plated  
Scope of delivery: Incl. fastening material (FS)

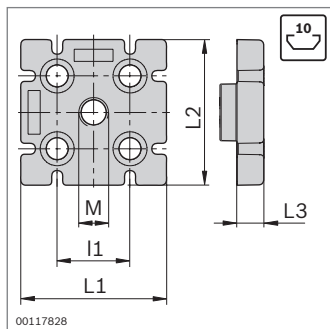
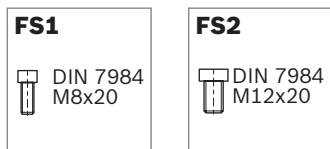
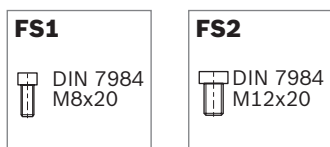
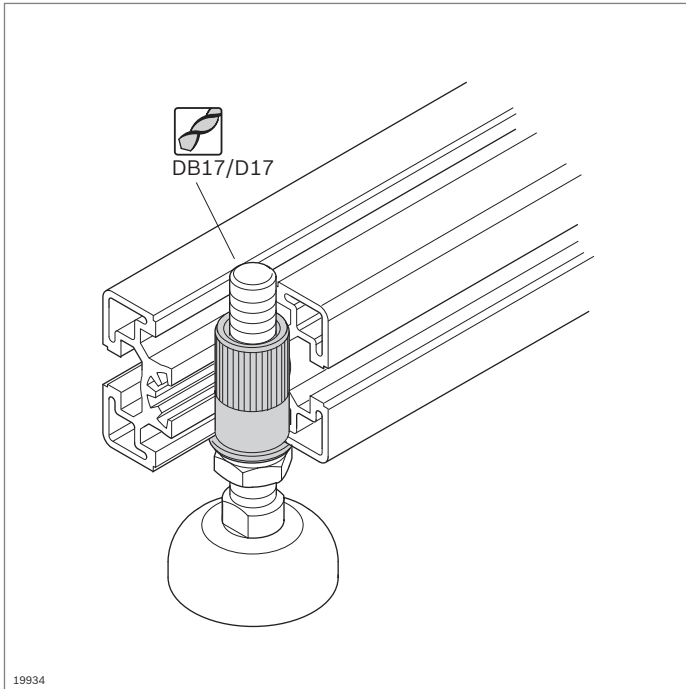


Plate	F (N)	M	L1 (mm)	I1 (mm)	L2 (mm)	L3 (mm)	No.	FS
<b>60x60 8N</b>	10000	M12	60	30	60	11	<b>3 842 536 566</b>	4xFS1
<b>80x80L</b>	10000	M12	80	40	80	15	<b>3 842 529 416</b>	4xFS2
<b>90x90L</b>	20000	M16	90	45	90	15	<b>3 842 511 352</b>	4xFS2
<b>100x100L</b>	20000	M16	100	50	100	15	<b>3 842 529 417</b>	4xFS2

Material: Plate: Diecast aluminum  
Fastening material: Steel; zinc-plated  
Scope of delivery: Incl. fastening material (FS)

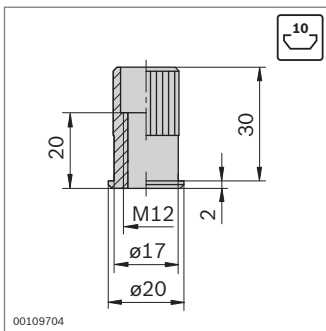




### Threaded sleeve

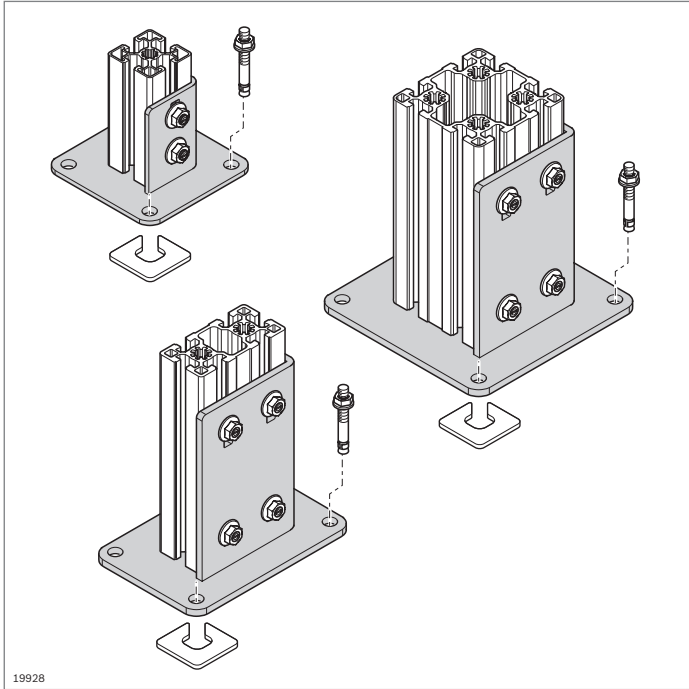
- ▶ For fastening leveling feet at an angle to the longitudinal profile direction
- ▶ Profile finishing:
  - Drilling of blind hole DB17
  - Through-hole D17

6



Threaded sleeve	F (N)	M	No.
	8000	M12	<b>3 842 504 790</b>

Material: Steel; zinc-plated



### Base plate, steel

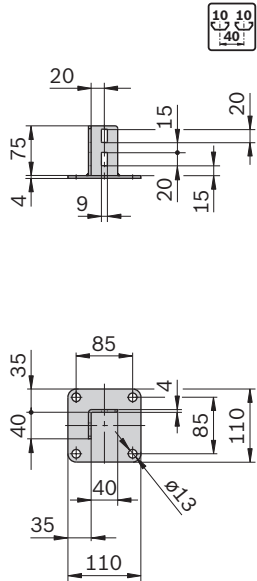


- ▶ For the construction of all kinds of leg sets
- ▶ Profile finishing: Not required

#### Accessories:

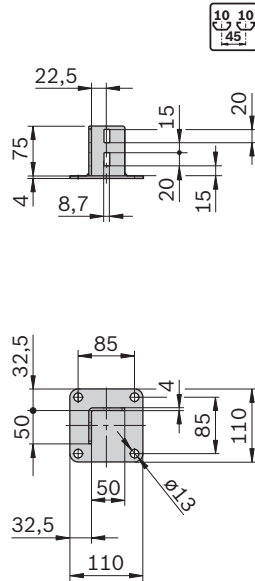
- ▶ T-bolt M8x20, 10 mm slot (p. 3-6)
- ▶ Flange nut M8 (p. 3-6)
- ▶ Floor dowel **3 842 526 561** (p. 6-13)
- ▶ Washer (p. 6-14)

#### 40x40



00139153

#### 45x45

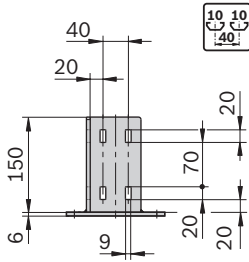


00117832

Base plate, steel	ESD	No.
40x40		3 842 542 667
45x45		3 842 536 581

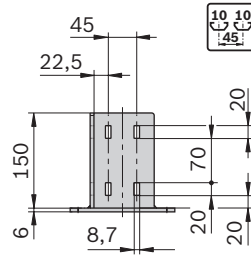
Material: Steel; zinc-plated

**40x80**



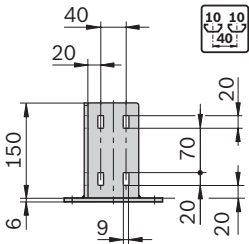
00139154

**45x90**



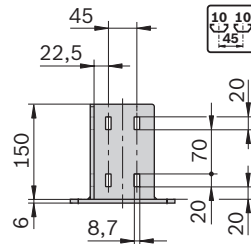
00117834

**80x80**



00139155

**90x90**



00117836

Base plate, steel	ESD No.
40x80	3 842 542 668
45x90	3 842 536 207

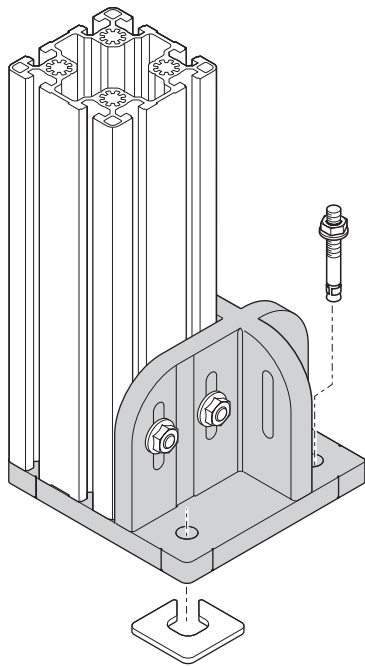
Material: Steel; zinc-plated

Base plate, steel	ESD No.
80x80	3 842 542 669
90x90	3 842 536 746

Material: Steel; zinc-plated



120x120  
150x150



19929

### Base plate 120x120, 150x150



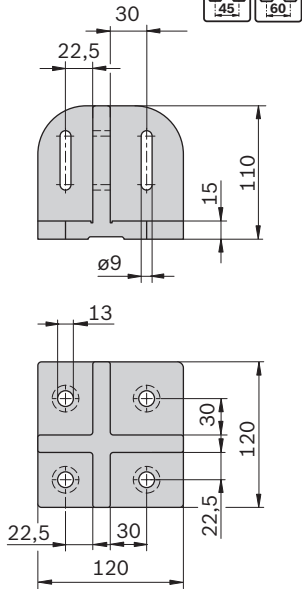
- ▶ For flush mounting of supports. No danger of tripping!
- ▶ Markings arranged at the center of the profile for precise alignment
- ▶ Anchoring with floor dowel

Accessories:

- ▶ T-bolt M8x30 **3 842 528 721** (p. 3-6)
- ▶ Flange nut M8 **3 842 345 081** (p. 3-6)
- ▶ Floor dowel **3 842 526 561** (p. 6-13)
- ▶ Washer (p. 6-14)
- ▶ Anchor bolt **3 842 564 815** (p. 6-14)

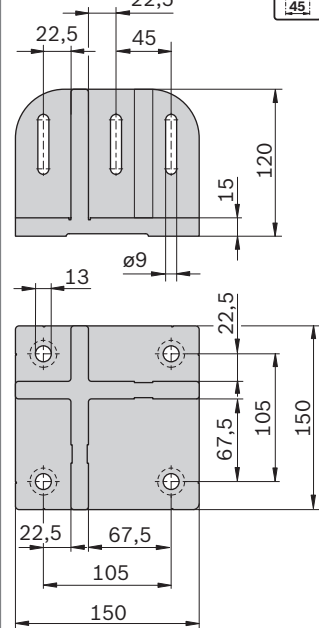
6

120x120



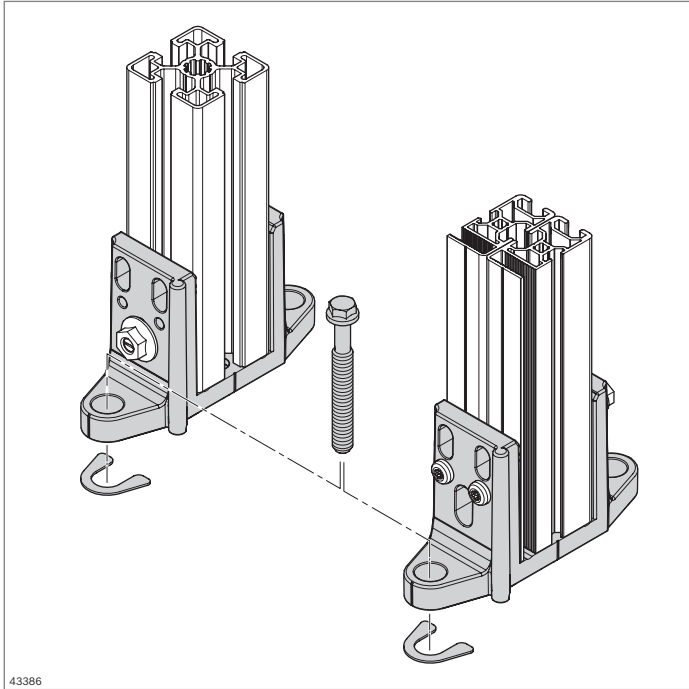
00109708

150x150



00109711

Base plate	ESD No.
120x120	3 842 527 553
150x150	3 842 524 469
Material:	Diecast aluminum



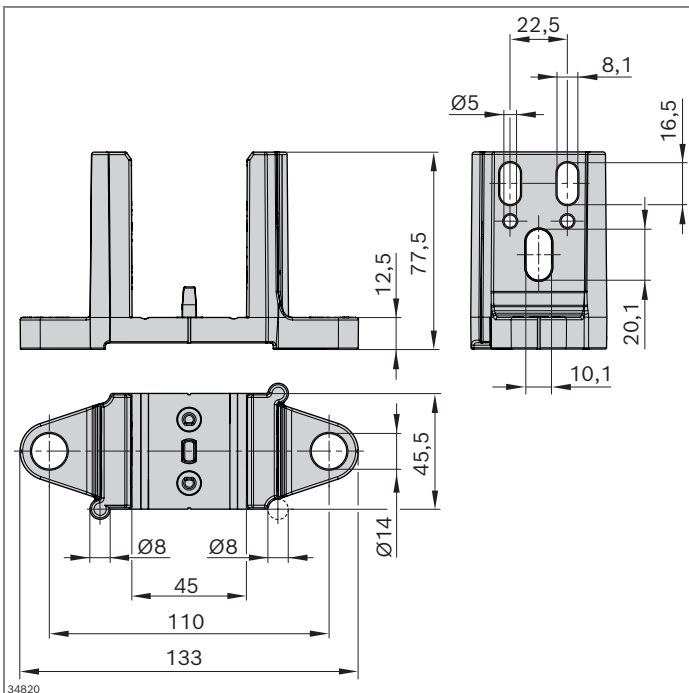
### Foot 45x45



- ▶ For anchoring leg sets to the ground
- ▶ Hinge function for angular adjustment of 0-45 degrees
- ▶ For frame profile 22.5x45 or strut profile 45x45 (L)

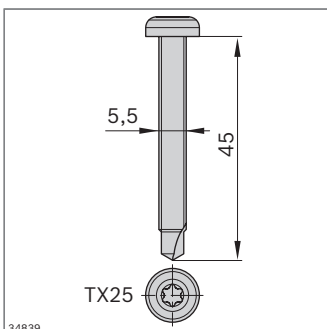
#### Accessories:

- ▶ For fastening frame profile 22.5x45: 1x self-tapping screw 3 842 567 970; 1x T-bolt M6x20 3 842 523 921; 1x flange nut 3 842 523 925
- ▶ For fastening strut profile 45x45 (L): 2x T-bolt M8x25 3 842 528 718 2x flange nut 3 842 345 081
- ▶ No profile finishing required



Foot 45x45	ESD Slot	No.
	8, 10	3 842 564 814

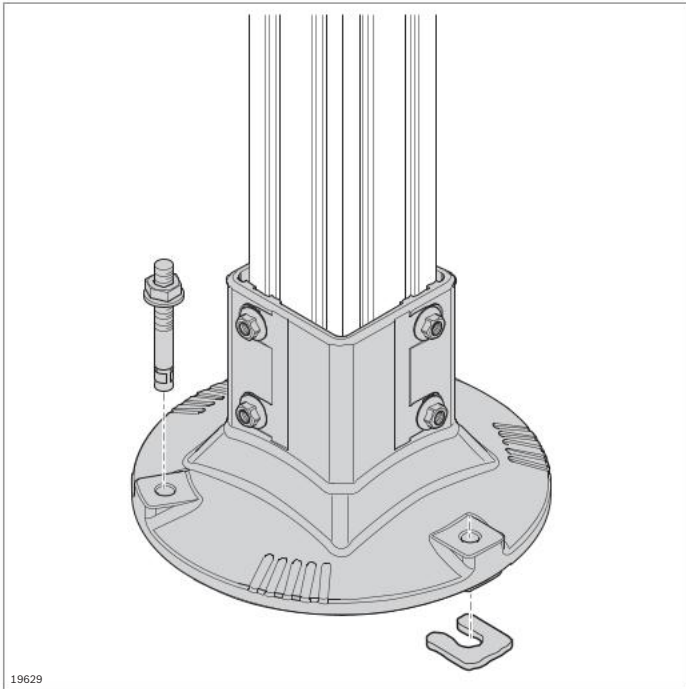
Material: Diecast zinc



- ▶ Self-tapping screw for fastening frame profile 22.5x45 in the foot 45x45 on the closed side

Self-tapping screw ZE, PI 5, 5x45	ESD	No.
	100	3 842 567 970

Material: Steel, galvanized



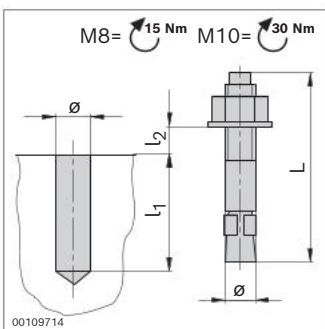
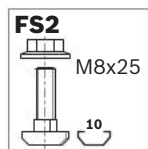
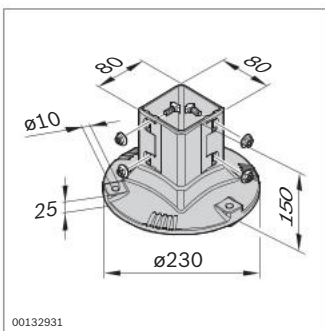
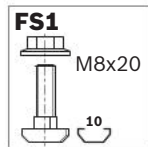
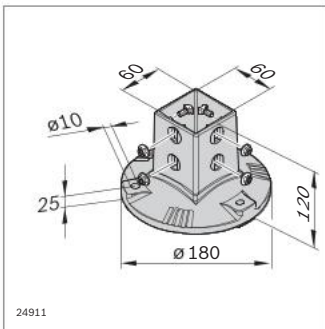
### Foot Floor dowel, washer

#### Foot

- ▶ For constructing supports made of 80x80L and 60x60 profiles
- ▶ Large standing surface for high stability
- ▶ Easy cleaning thanks to few horizontal surfaces
- ▶ Open on the inside to enable draining of liquids
- ▶ Stop as depth limit for profile (removable)

Required accessories:

- ▶ Floor dowel **3 842 540 668**
- ▶ Washer **3 842 546 717** or **3 842 546 718**



Foot AL	No.	FS
<b>60x60</b>	1 <b>3 842 544 875</b>	4xFS1
Material:	Aluminum, silver coating (RAL 9006)	
	Fastening material: Steel; zinc-plated	
Scope of delivery:	Incl. Fastening material (FS1)	

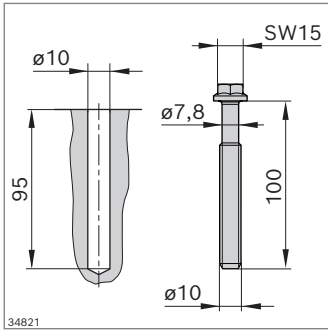
Foot	No.	FS
<b>80x80</b>	1 <b>3 842 540 173</b>	4xFS2
Material:	Aluminum, silver coating (RAL 9006)	
	Fastening material: Steel; zinc-plated	
Scope of delivery:	Incl. Fastening material (FS1)	

#### Floor dowel

- ▶ For anchoring the base plates

Floor dowel	∅	L	I <sub>1</sub>	I <sub>2 max</sub>	No.
	(mm)	(mm)	(mm)	(mm)	
	8	80	65	15 100	<b>3 842 526 560</b>
	10	90	70	15 100	<b>3 842 526 561</b>
	8	95	65	30 100	<b>3 842 540 668</b>

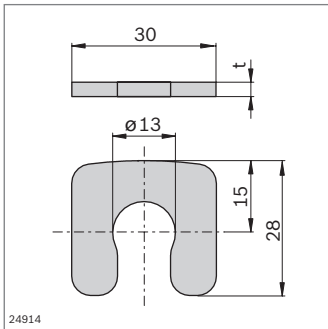
Material: Steel; zinc-plated



### Anchor bolt

- ▶ To anchor the foot to the ground
- ▶ Mechanical tightening with impact wrench
- ▶ Adjustability of attachment up to 2 times after assembly possible
- ▶ For cracked and non-cracked concrete

Anchor bolt SW15-10x100	ESD	No.
	100	3 842 564 815

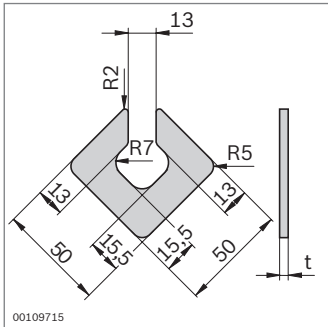


### Washer

- ▶ For leveling in case of uneven flooring

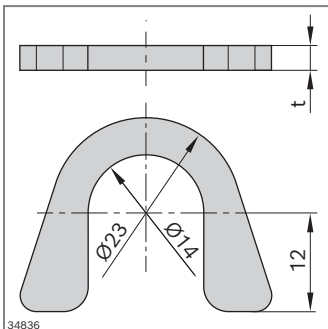
Washer	t (mm)	No.
for round feet	1 100	3 842 546 717
	3 100	3 842 546 718

Material: Steel; stainless



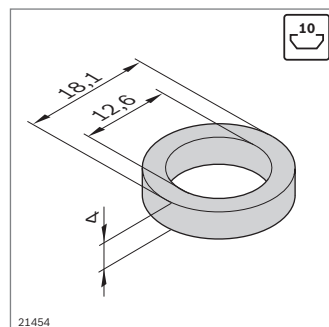
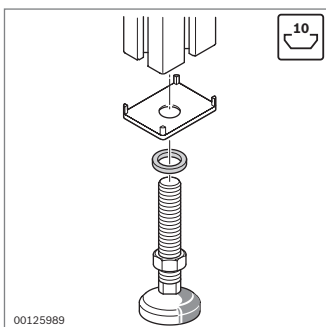
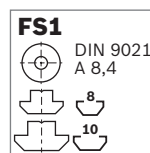
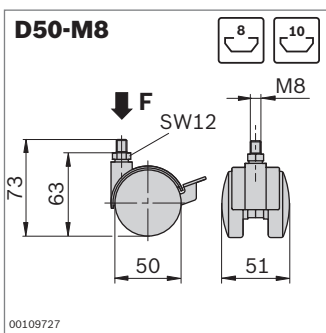
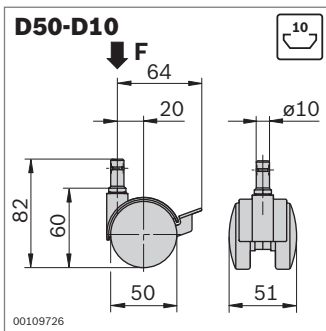
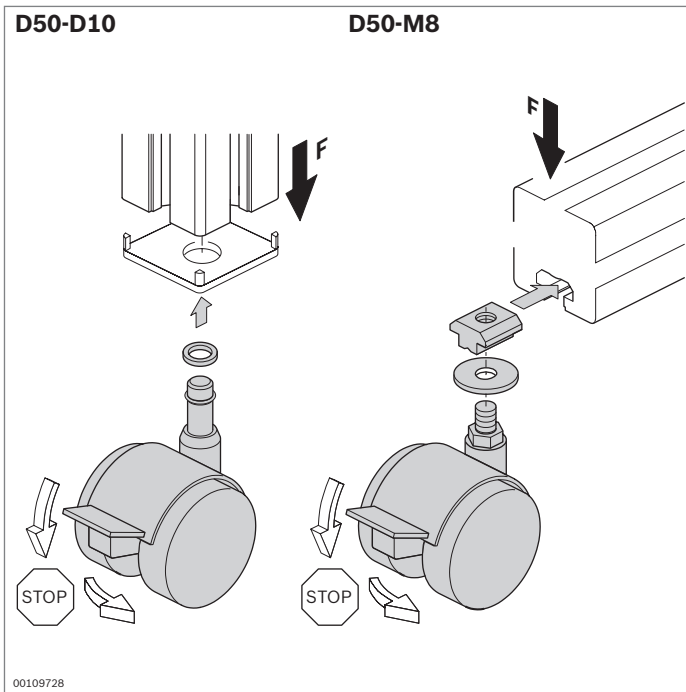
Washer	t (mm)	No.
for square feet	1 100	3 842 528 189
	4 100	3 842 528 191

Material: Steel; stainless



Washer	Ø (mm)	t (mm)	ESD	No.
for foot 45x45	23	1	100	3 842 564 830
	23	3	100	3 842 564 831

Material: Stainless steel



## Double wheel



- ▶ Attractive double wheel for light applications
- ▶ Made of oil-resistant material
- ▶ Braked double roller
- ▶ Double wheel D50-D10 for insertion in the central hole with a diameter of 10 mm
- ▶ Double wheel D50-M8 for bolting in the profile slot

Double wheel	F (N)	ESD	No.
D50-D10	400	4	3 842 515 457
	400	4 <sup>1)</sup>	3 842 515 459

<sup>1)</sup> Antistatic  $\leq 10^6 \Omega$  according to DIN EN 12528

Material: Housing, wheel, lock: PA; black  
Running surface: PU (not with ESD version)  
Fastening material: Steel; zinc-plated

Double wheel	F (N)	ESD	No.	FS
D50-M8	400	4	3 842 535 669	FS1
	400	4 <sup>1)</sup>	3 842 535 670	FS1

<sup>1)</sup> Antistatic  $\leq 10^6 \Omega$  according to DIN EN 12528

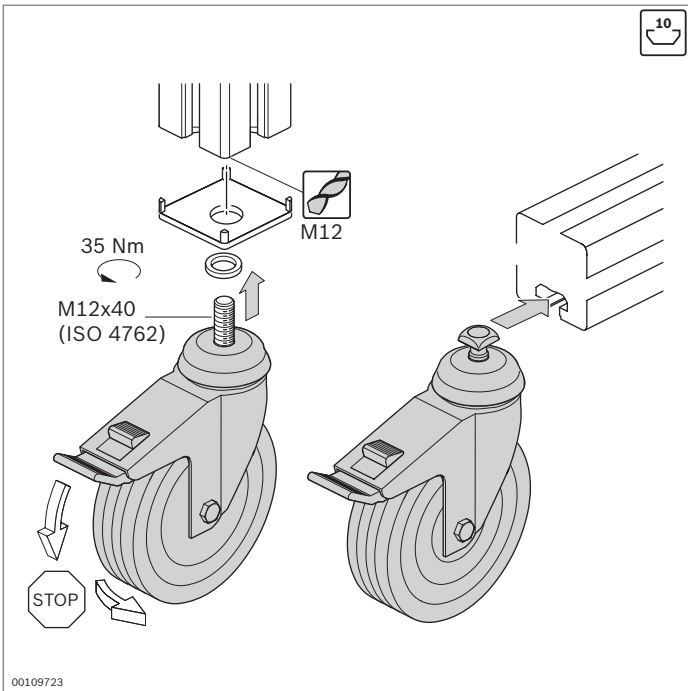
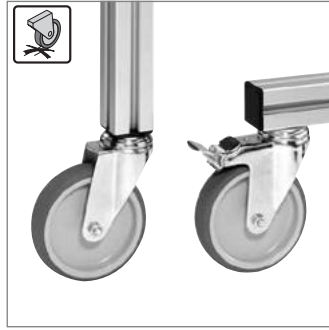
Material: Housing, wheel, lock: PA; black  
Running surface: PU (not with ESD version)  
Fastening material: Steel; zinc-plated

## Bearing ring

- ▶ For cover caps with hole in the sizes 40x40, 45x45, 50x50 and 60x60
- ▶ For M12 threads
- ▶ To protect the cover caps when tightening accessories

Bearing ring	No.
	100 3 842 555 653


Material: Diecast zinc




## Roller




- ▶ Impressive versatility
- ▶ Wheels with excellent running properties
- ▶ Available as a castor wheel with lock, a castor wheel, and a trestle roller


 Especially gentle on floors

 Resistant to oil, suitable for workshop floors

**Clean Room** Suitable for use in clean rooms.  
Conductive material version in accordance with DIN EN 61340-5-1; conduction resistance  $10^3$  to  $10^8 \Omega$

Tested for particulate emissions.  
Report No. BL1906-1121

 Rubber running surface made of solid rubber with good deformation elasticity. No permanent flattening of the wheel due to it traveling over edges or not being moved for long periods





























 Suitable for ESD-sensitive areas.  
Conductive material version in accordance with DIN EN 61340-5-1; conduction resistance  $\leq 10^6 \Omega$

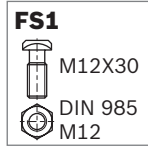
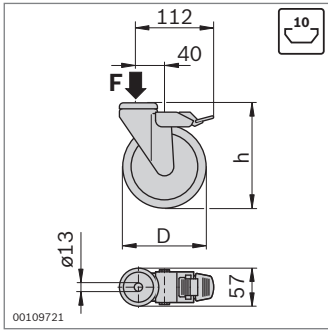
- ▶ Mounting of all wheels in the profile slot or central hole (accessories required)
- ▶ Profile finishing: Thread cutting M12 for assembly in central hole

Required accessories:

- ▶ Screw M12x40 (ISO 4762) for mounting in central hole ( $\cup$  35 Nm)
- ▶ Bearing ring if cover cap with hole is used (p. 6-15)

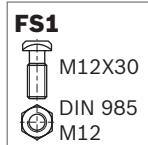
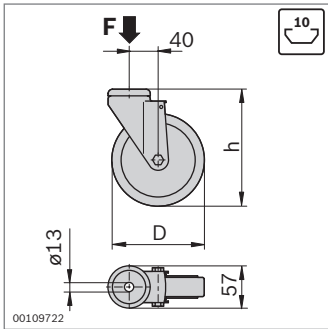
**Wheel selection guide**

				
	<b>Thermoplastic rubber</b>	<b>Polyamide 6</b>	<b>Solid rubber</b>	<b>Thermoplastic polyurethane</b>
<b>Tread</b>				
<b>ESD</b>	yes / no (optional)	no	yes	yes
<b>Tread hardness</b>	 85° Shore A	 70° Shore D	 80° Shore A	 94° Shore A
<b>Temperature resistance</b>	 -20 °C ... +60 °C	 -25 °C ... 80 °C	 -20 °C ... +60 °C	 -20 °C ... +70 °C
<b>Rolling resistance</b>	 very good	 outstanding	 good	 very good
<b>Travel noise</b>	 good	 satisfactory	 very good	 good
<b>Floor protection</b>	 good	 satisfactory	 very good	 good
<b>Deformation elasticity Tread</b>	 satisfactory	 adequate	 very good	 good
<b>Tread color</b>	gray	black	black	gray
<b>Makes no track marks</b>	yes	yes	no	yes

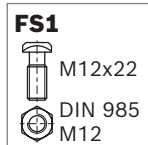
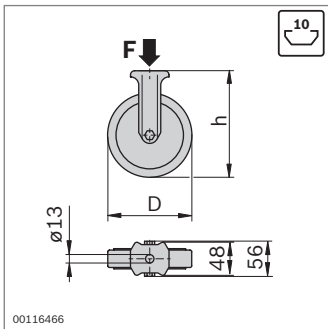


► Castor wheel with lock: Lock prevents the wheel from rolling or turning

Castor wheel with lock	F (N)	D (mm)	h (mm)	ESD No.	FS
	900	80	108	<b>3 842 541 226</b>	FS1
	1100	125	158	<b>3 842 541 228</b>	FS1
	900	80	108	<b>3 842 541 230</b>	FS1
	1100	125	158	<b>3 842 541 232</b>	FS1
	1100	125	158	<b>3 842 515 367</b>	FS1
	1000	125	158	<b>3 842 562 055</b>	FS1
	600	80	108	<b>3 842 547 836</b>	FS1
	800	125	158	<b>3 842 547 838</b>	FS1



Castor wheel	F (N)	D (mm)	h (mm)	ESD No.	FS
	900	80	108	<b>3 842 541 234</b>	FS1
	1100	125	158	<b>3 842 541 236</b>	FS1
	900	80	108	<b>3 842 541 238</b>	FS1
	1100	125	158	<b>3 842 541 240</b>	FS1
	1100	125	158	<b>3 842 515 366</b>	FS1
	1000	125	158	<b>3 842 562 056</b>	FS1
	600	80	108	<b>3 842 547 835</b>	FS1
	800	125	158	<b>3 842 547 837</b>	FS1



Trestle roller	F (N)	D (mm)	h (mm)	ESD No.	FS
	900	80	108	<b>3 842 541 242</b>	FS1
	1100	125	158	<b>3 842 541 244</b>	FS1
	600	80	108	<b>3 842 547 839</b>	FS1
	800	125	158	<b>3 842 547 840</b>	FS1

Material:



Thermoplastic rubber



Reinforced PA



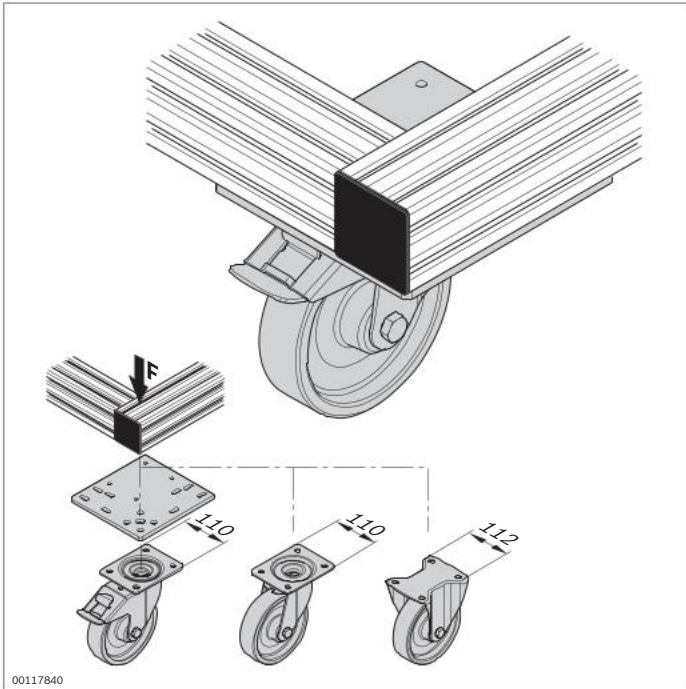
Gray TPU, housing: Steel; chrome-plated



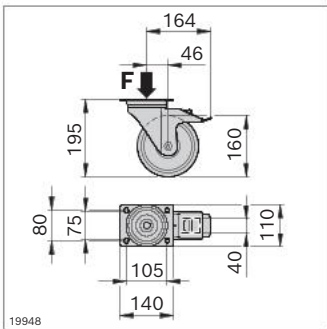
Solid rubber



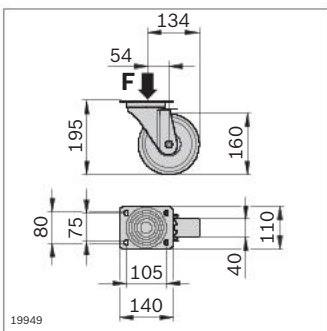
Conductive, conduction resistance  $\leq 10^6 \Omega$



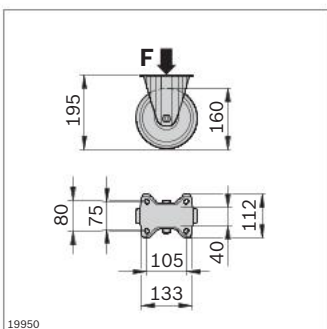
00117840



19948



19949



19950

## Heavy-duty wheel



- ▶ Heavy-duty wheel with mounting flange
- ▶ Available as a castor wheel with lock, a castor wheel, and a trestle roller
- ▶ Heavy-duty, particularly suited for workshop applications
- ▶ Wheels with excellent running properties

Required accessories:

- ▶ Screw M10x16 (ISO 4762), washer ISO 7089-10, lock washer 10FSt for fastening to the screw-on plate
- ▶ T-bolt, flange nut, central bolt M12 or S12 for fastening the screw-on plate to the profile frame

Castor wheel with lock	F (N)	No.
	3000	<b>3 842 562 057</b>

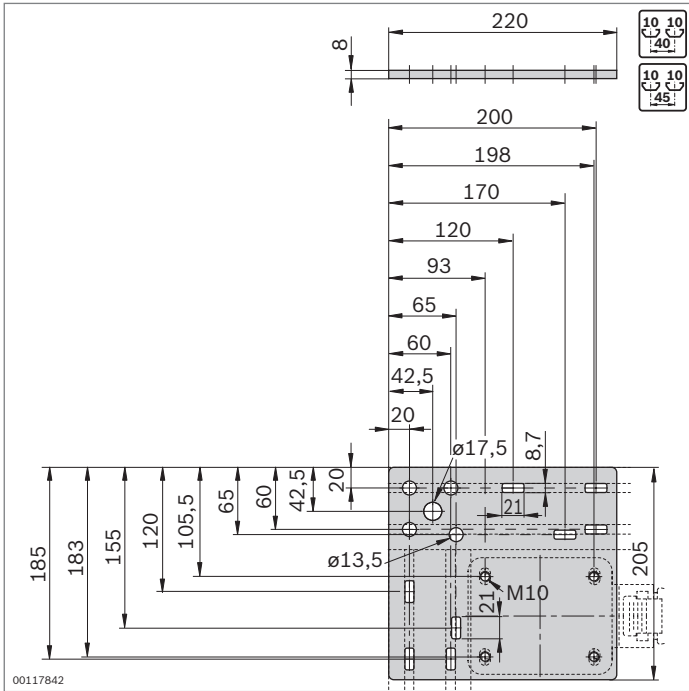
Material: Housing: Steel; zinc-plated  
Wheel: TPU, hardness 94 Shore A, gray

Castor wheel	F (N)	No.
	3000	<b>3 842 562 058</b>

Material: Housing: Steel; zinc-plated  
Wheel: TPU, hardness 94 Shore A, gray

Trestle roller	F (N)	No.
	3000	<b>3 842 562 059</b>

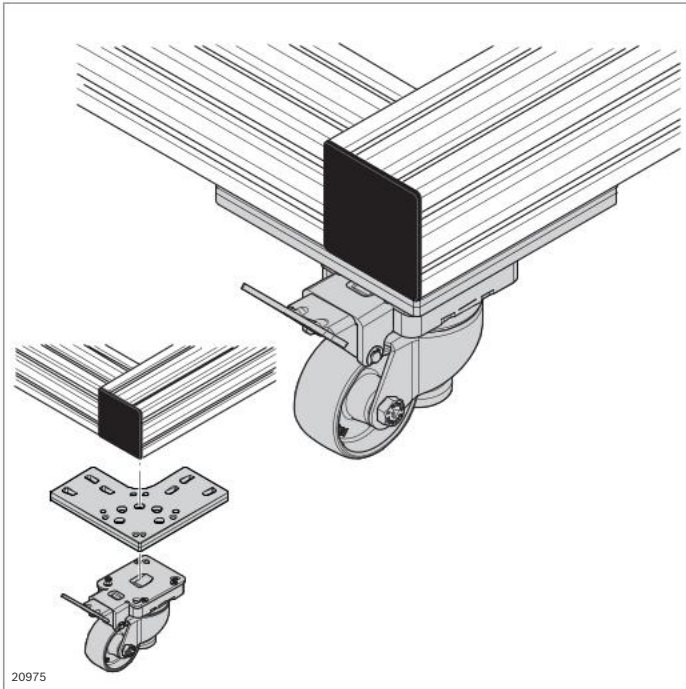
Material: Housing: Steel; zinc-plated  
Wheel: TPU, hardness 94 Shore A, gray



- Screw-on plate for attachment to 40 mm or 45 mm profiles

Screw-on plate	No.
	4 <b>3 842 536 701</b>

Material: Steel; zinc-plated



20975

### Lifting wheel

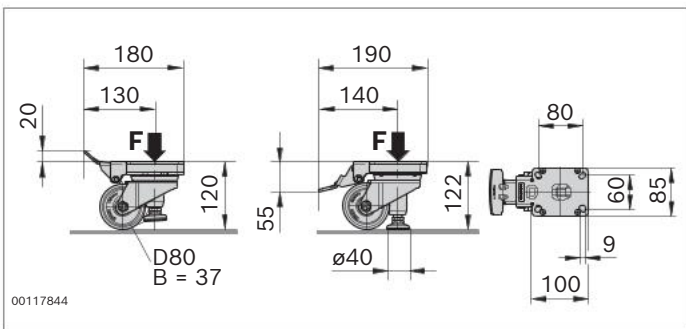


- ▶ Steerable lifting wheel
- ▶ The wheel turns into a stable base simply by engaging the stop lever
- ▶ Screw-on plate for mounting the lifting wheel
- ▶ With "Ideal-Stop": Locking lever does not swivel with the castor wheel but remains in the defined position. The locking lever is fixed in position on the frame by means of the screw-on plate, and the castor wheel moves freely

6

Required accessories:

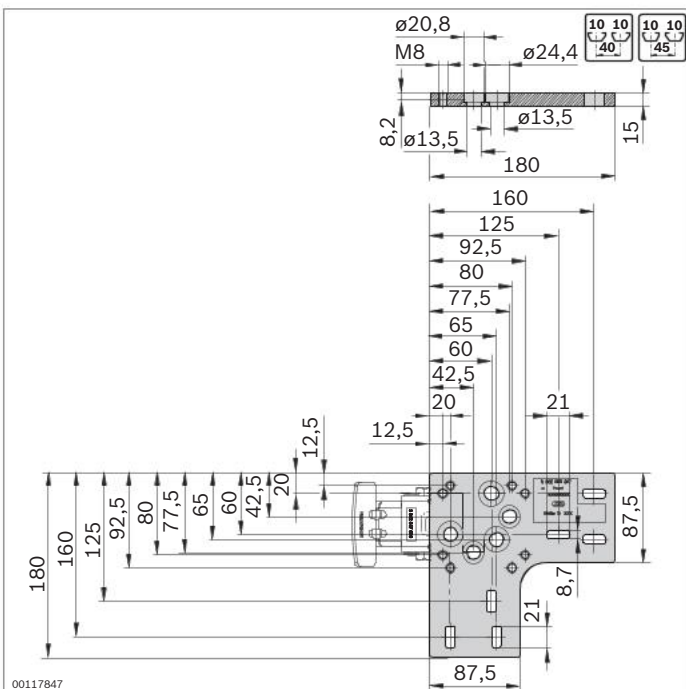
- ▶ Screw M8x35 (ISO 4762), washer 8 (DIN EN ISO 7089), lock washer 8 FSt for attaching to the screw-on plate
- ▶ T-bolt M8x30 (p. 3-6), flange nut M8 (p. 3-6), central bolt M12 or S12 (p. 3-43) for fastening the screw-on plate to the profile frame



00117844

Lifting wheel	F (N)	No.
	2300	3 842 547 890

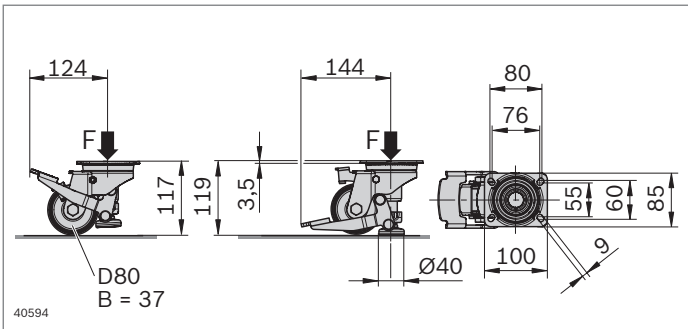
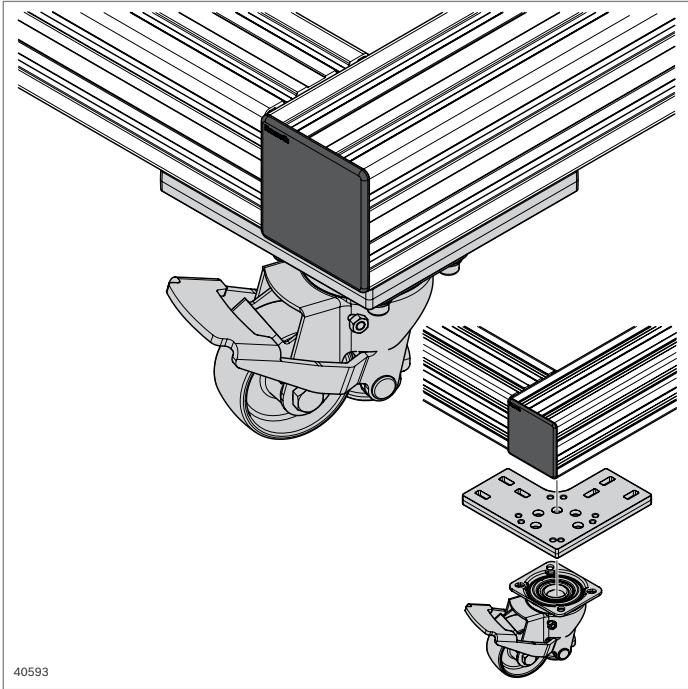
Material: Wheel: PA6, natural white  
Housing: Steel; zinc-plated  
Base plate: Rubber, gray



00117847

Screw-on plate	No.
	4 3 842 553 967

Material: Diecast aluminum



## Lifting wheel – Rotatable Pedal ESD



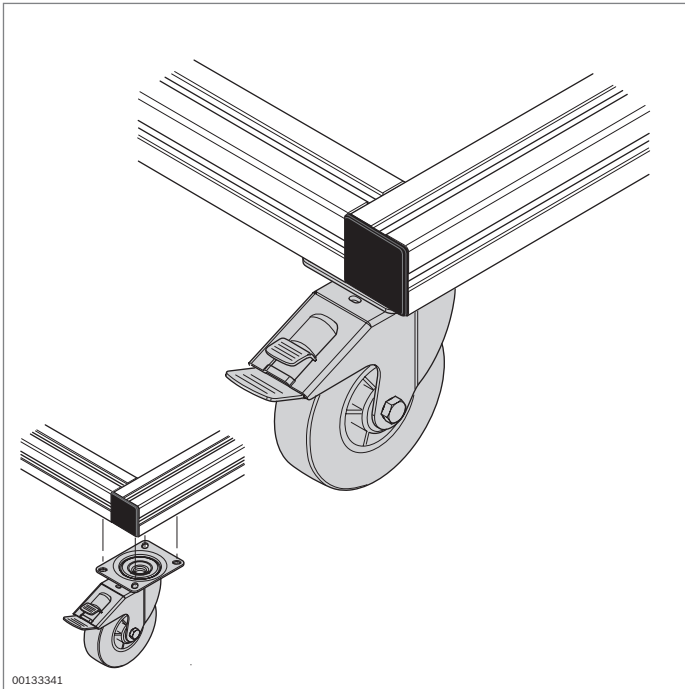
- ▶ Steerable lifting wheel
- ▶ The wheel turns into a stable base simply by engaging the lock
- ▶ The locking lever moves with the wheel
- ▶ The locking lever can be moved under the frame if necessary
- ▶ The base is centered under the rotary table

Required accessories:

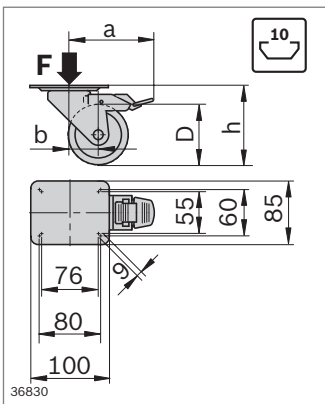
- ▶ Screw M8x20 (ISO 4762), washer 8 (DIN EN ISO 7089), lock washer 8 FSt for attaching to the screw-on plate
- ▶ Screw-on plate 3 842 553 967 (p. 6-21)
- ▶ Flange head screw similar to ISO 7380-2 10.9 M8x25, however, Torx 40 (tightening torque 25 Nm), T-nut 10 M8 (p. 3-4), central bolt M12 or S12 (p. 3-43) for fastening the screw-on plate to the profile frame

Lifting wheel	ESD	F (N)	No.
Rotatable Pedal		2300	3 842 562 085

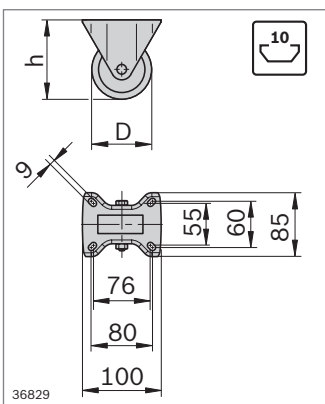
Material: Wheel: PA6, natural white  
 Housing: Steel; zinc-plated  
 Base plate: Rubber; black



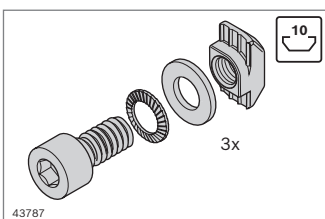
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36830



36829



43787

## Roller with mounting flange



- ▶ Robust rollers with mounting flange
- ▶ Excellent running properties, particularly suitable for workshop floors
- ▶ Available as a castor wheel with lock and as a trestle roller
- ▶ Castor wheel with lock: Lock prevents the wheel from rolling or turning

6

Castor wheel	F (N)	D (mm)	h (mm)	a (mm)	b (mm)	No.
	600	100	125	113	36±2	<b>3 842 259 790</b>
	900	125	150	123	40±2	<b>3 842 259 791</b>

Material: Wheel: Solid rubber  
Rims: Polypropylene  
Housing: Sheet steel; zinc-plated

Trestle roller	F (N)	D (mm)	h (mm)	No.
	600	100	125	<b>3 842 259 792</b>
	900	125	150	<b>3 842 259 793</b>

Material: Wheel: Solid rubber  
Rims: Polypropylene  
Housing: Sheet steel; zinc-plated

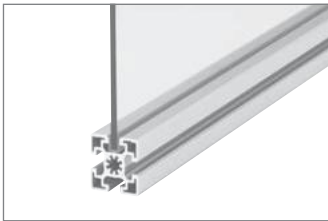
- ▶ For castor wheel and trestle roller

Mounting kit	No.
	Set <b>3 842 259 794</b>

Material: Steel; zinc-plated



# Mounting of panel elements



Mounting rim profile  
(p. 7-2)



Mounting rim profile cleanroom (p. 7-3)



PVC protective pane profile  
(p. 7-4)



Protective pane profile for cleanroom (p. 7-5)



Variofix block (p. 7-6)  
Variofix block S (p. 7-7)



Bracket S (p. 7-8)



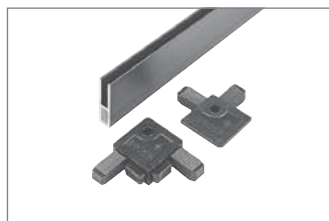
Locking ring (p. 7-9)



Screw bar profile (p. 7-10)



Potential equalizer  
(p. 7-12)



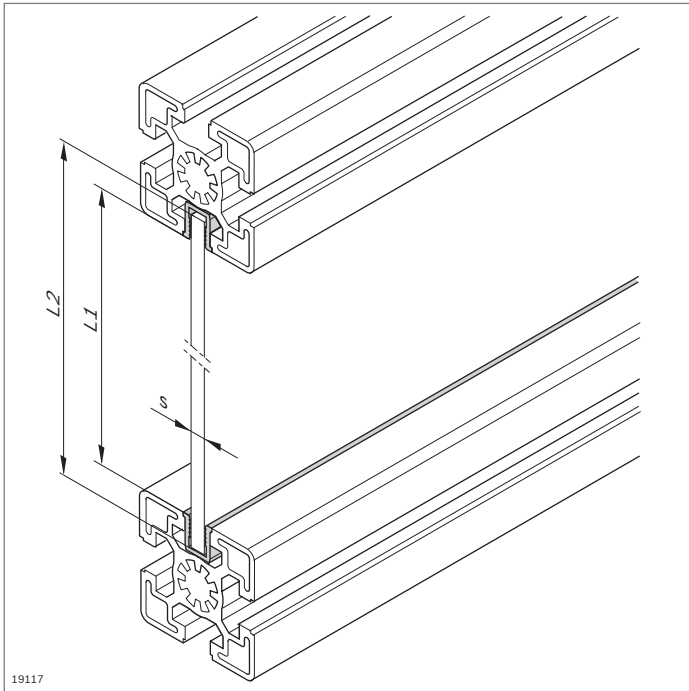
Protective grille profile  
(p. 7-13)



Clamp bushing (p. 7-14)



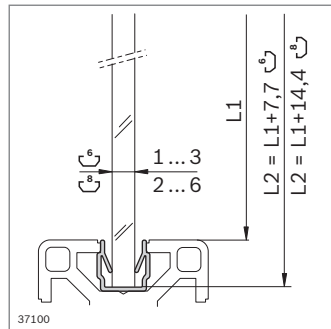
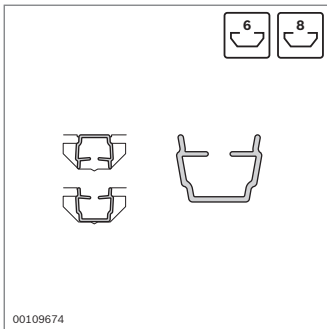
Quick plate holder (p. 7-11)



## Mounting rim profile

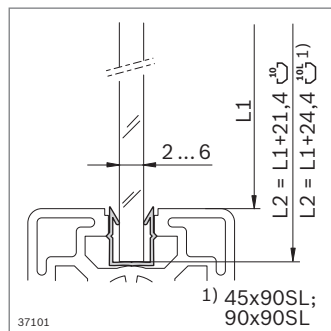
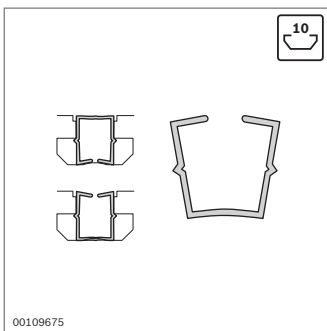


- ▶ For the mounting of panel elements in the profile slot
- ▶ For panel elements up to 6 mm thick
- ▶ Installation during frame assembly
- ▶ Mounting rim profile PP can also be used as a cover profile



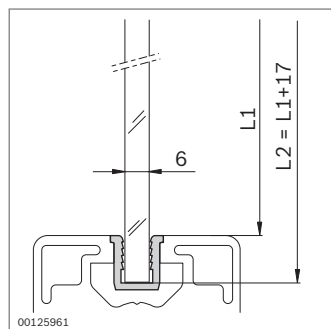
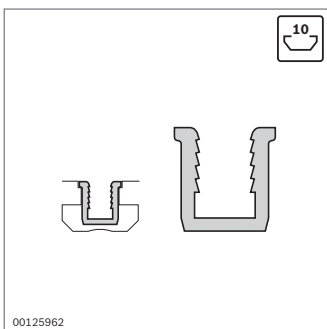
Mounting rim profile	Slot s (mm)	L (mm)	No.
	6	1 ... 3	2000 3 842 555 272
	8	2 ... 6	2000 3 842 555 274

Material: PP/TPE; signal gray RAL 7004



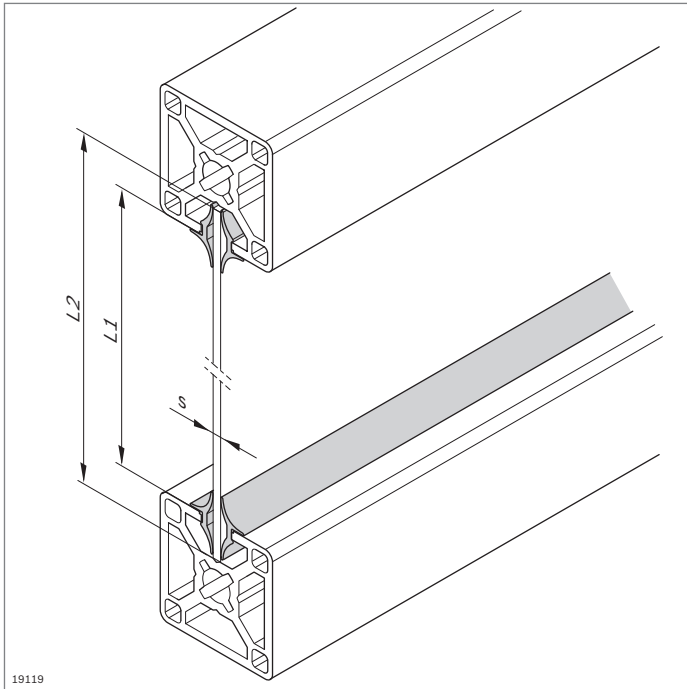
Mounting rim profile	Slot s (mm)	L (mm)	No.
	10	2 ... 6	2000 3 842 555 276

Material: PP/TPE; signal gray RAL 7004



Mounting rim profile	Slot s (mm)	L (mm)	No.
	10	6	2000 3 842 555 270

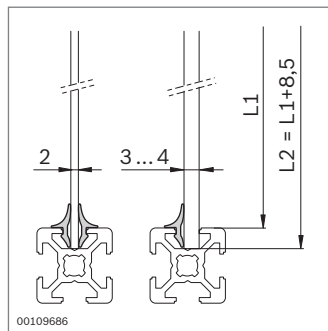
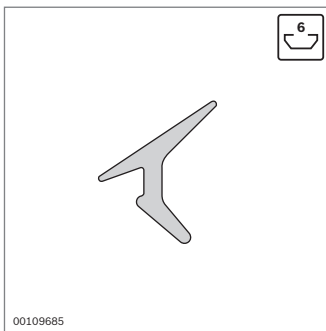
Material: PE; signal gray RAL 7004



### Mounting rim profile cleanroom



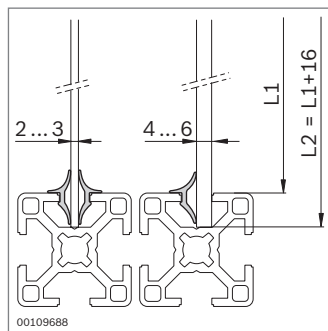
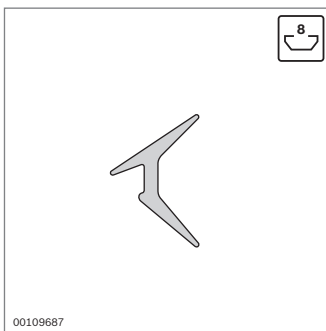
- ▶ For the mounting of panel elements in the profile slot
- ▶ For panel elements with a thickness of 2 ... 8 mm
- ▶ For use on one or two sides of the mounting rim profile, depending on the panel element thickness
- ▶ Installation during profile frame assembly
- ▶ Can be used under cleanroom conditions
- ▶ Tested for emission of volatile organic substances at room temperature, Report No. BO 2102-1208



Mounting rim profile, Clean	Slot s (mm)	L (mm)	No.
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	6	2 ... 4	10000 3 842 555 278
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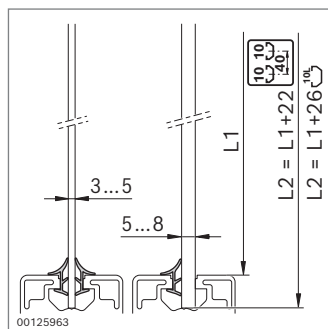
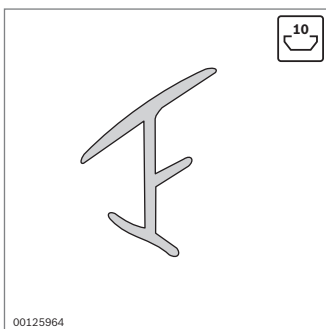
Material: TPE; signal gray RAL 7004



Mounting rim profile, Clean	Slot s (mm)	L (mm)	No.
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	8	2 ... 6	10000 3 842 555 280
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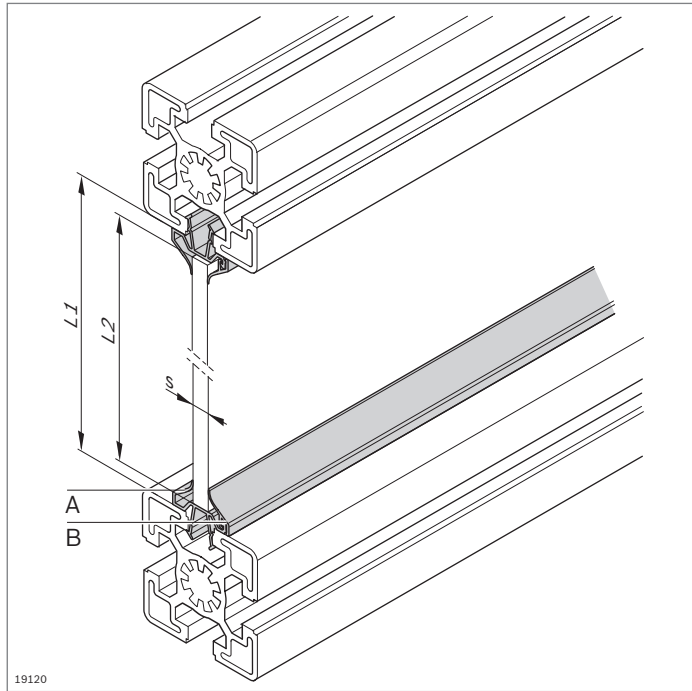
Material: TPE; signal gray RAL 7004



Mounting rim profile, Clean	Slot s (mm)	L (mm)	No.
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	10	3 ... 8	10000 3 842 555 282
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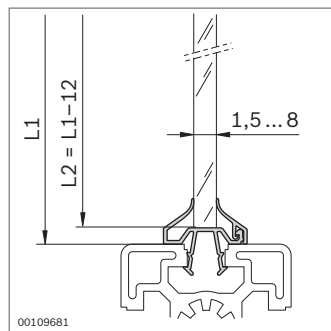
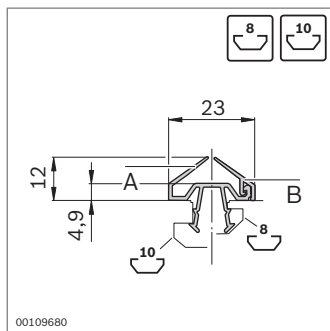
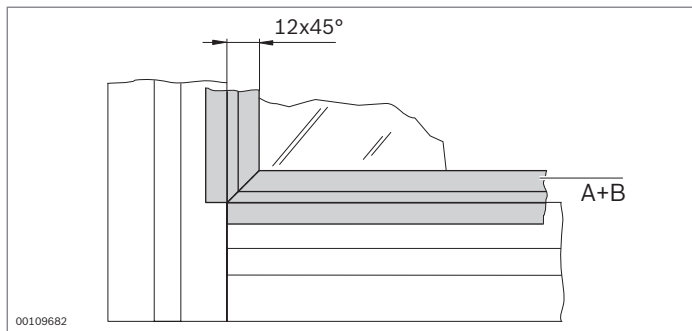
Material: TPE; signal gray RAL 7004



### PVC protective pane profile



- ▶ For mounting panel elements
- ▶ For panel elements with a thickness of 1.5 ... 8 mm
- ▶ For subsequent installation in closed frame constructions
- ▶ Installation of panel elements at center of slot
- ▶ The protective pane profile consists of the basic profile (**A**) and the clip strip (**B**)
- ▶ With lip seals to protect the working space from splashing liquids

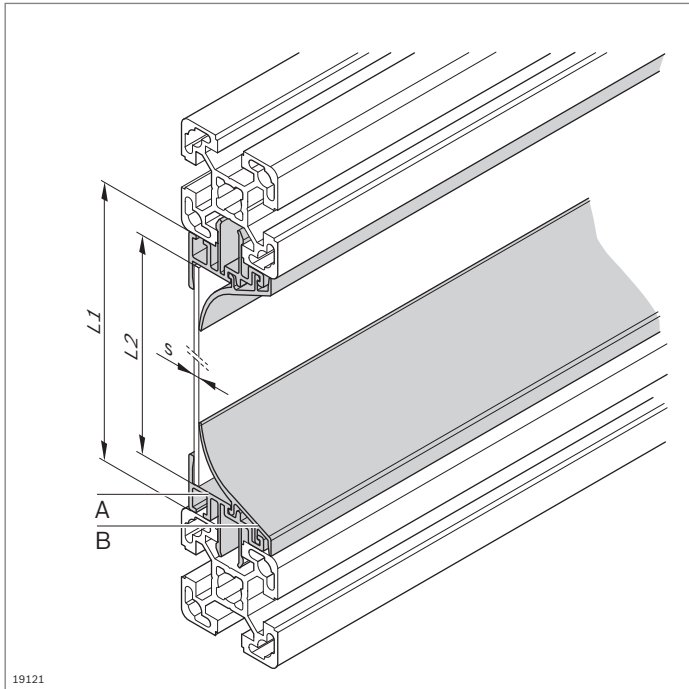


PVC protective pane profile	Slot	s (mm)	L (mm)	⊗	No.
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<b>A</b> Basic profile	8, 10	1.5 ... 8	2000	10	<b>3 842 555 284</b>
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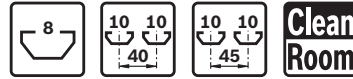
<b>B</b> Clip strip	8, 10	1.5 ... 8	2000	10	<b>3 842 555 286</b>
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Material: PVC; signal gray RAL 7004

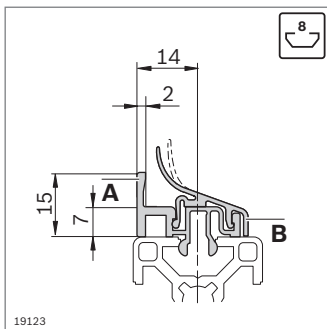


19121

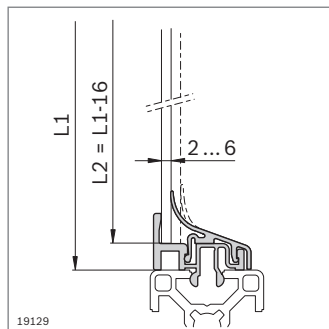
### Protective pane profile cleanroom



- ▶ For mounting panel elements
- ▶ For panel elements with a thickness of 2 ... 8 mm
- ▶ For subsequent installation in closed frame constructions
- ▶ Installation of panel elements flush with the profile edge
- ▶ The protective pane profile consists of the basic profile (A) and the clip-on strip (B). Both profiles are required for proper functioning.
- ▶ Can be used under cleanroom conditions
- ▶ Tested for emission of volatile organic substances at room temperature, Report No. BO 2112-1289



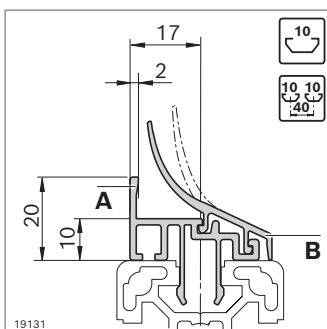
19123



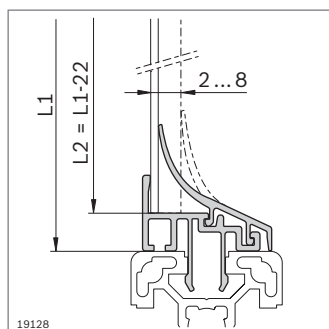
19129

Protective pane profile	Slot	s (mm)	L (mm)	No.
A Basic profile	8	2 ... 6	2000	10 <b>3 842 524 025</b>
B Clip strip	8	2 ... 6	2000	10 <b>3 842 555 288</b>

Material: Basic profile: Aluminum; anodized  
Clip strip: PP/TPE; signal gray RAL 7004



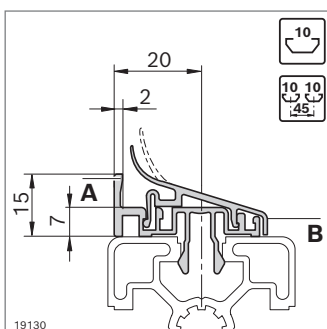
19131



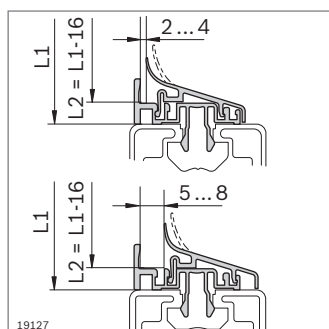
19128

Protective pane profile	Slot	s (mm)	L (mm)	No.
A Basic profile	10	2 ... 8	2000	10 <b>3 842 529 761</b>
B Clip strip	10	2 ... 8	2000	10 <b>3 842 555 292</b>

Material: Basic profile: Aluminum; anodized  
Clip strip: PP/TPE; signal gray RAL 7004



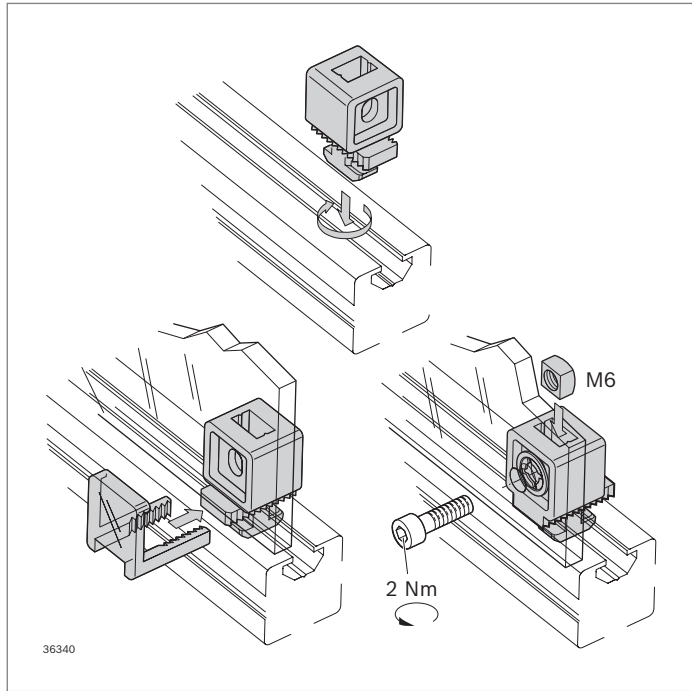
19130



19127

Protective pane profile	Slot	s (mm)	L (mm)	No.
A Basic profile	10	2 ... 8	2000	10 <b>3 842 524 027</b>
B Clip strip	10	2 ... 8	2000	10 <b>3 842 555 290</b>

Material: Basic profile: Aluminum; anodized  
Clip strip: PP/TPE; signal gray RAL 7004



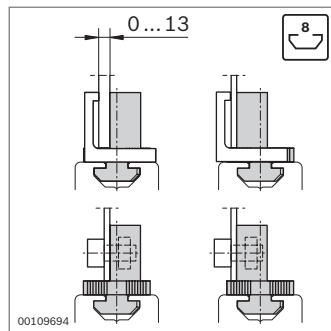
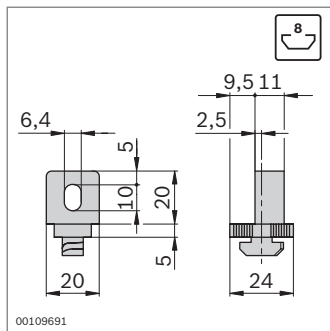
### Variofix block



- ▶ For panel elements up to 13 mm thick
- ▶ For subsequent installation in closed frame constructions
- ▶ Asymmetrical form enables fastening of panel elements in two different positions
- ▶ Clamping via snap-in clip or screw fitting with square nut M6 (included in scope of delivery) and screw
- ▶ Retainer ring for connecting the screw to the panel element (Machinery Directive 2006/42/EC)

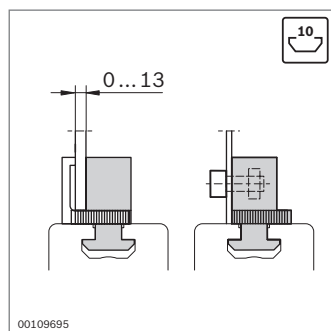
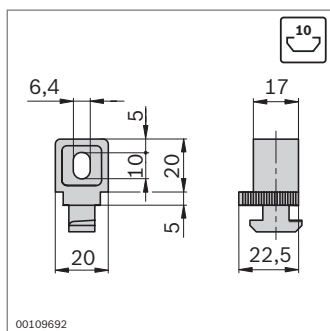
Accessories:

- ▶ Variofix remover (p. 14-8)
- ▶ Screw for fitting with square nut



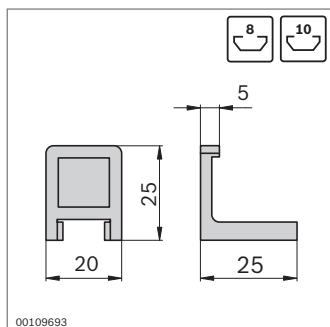
Variofix block	Slot	No.
	8	10 3 842 548 832

Material: PP; signal gray RAL 7004  
 Square nut: Steel; zinc-plated  
 Scope of delivery: Incl. square nut



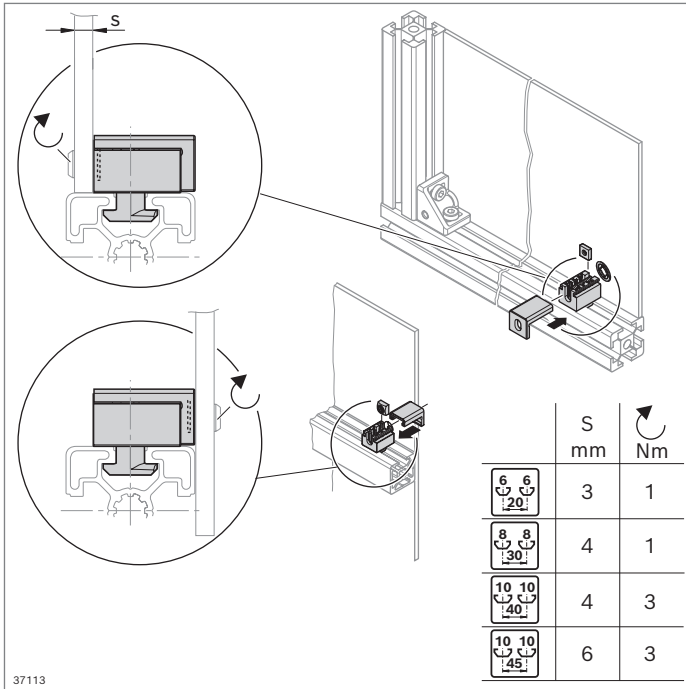
Variofix block	Slot	No.
	10	10 3 842 548 834

Material: PP; signal gray RAL 7004  
 Square nut: Steel; zinc-plated  
 Scope of delivery: Incl. square nut M6, locking ring M6



Snap-in clip	No.
	10 3 842 184 738

Material: PA; colorless



37113

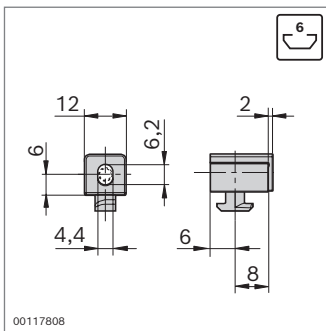
### Variofix block S



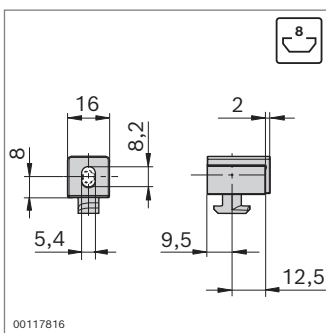
- ▶ For virtually gap-free panel element mounting
- ▶ For subsequent installation in closed frame constructions
- ▶ The asymmetrical design and cover cap enable variable mounting positions for the panel elements: flush with the profile edge or situated in front of the profile
- ▶ Retainer ring for connecting the screw to the panel element (Machinery Directive 2006/42/EC)

Required accessories:

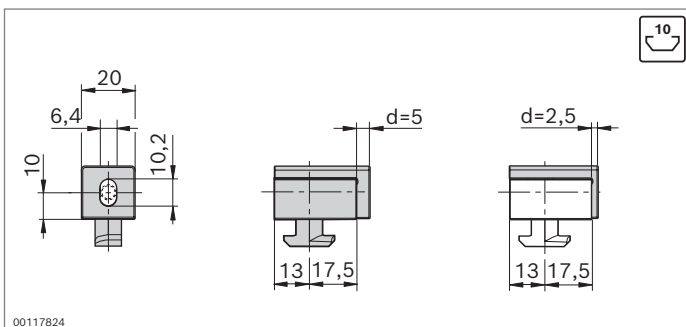
Screw for fastening the panel element



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Variofix block S	Slot	No.
	6	10 <b>3 842 548 836</b>

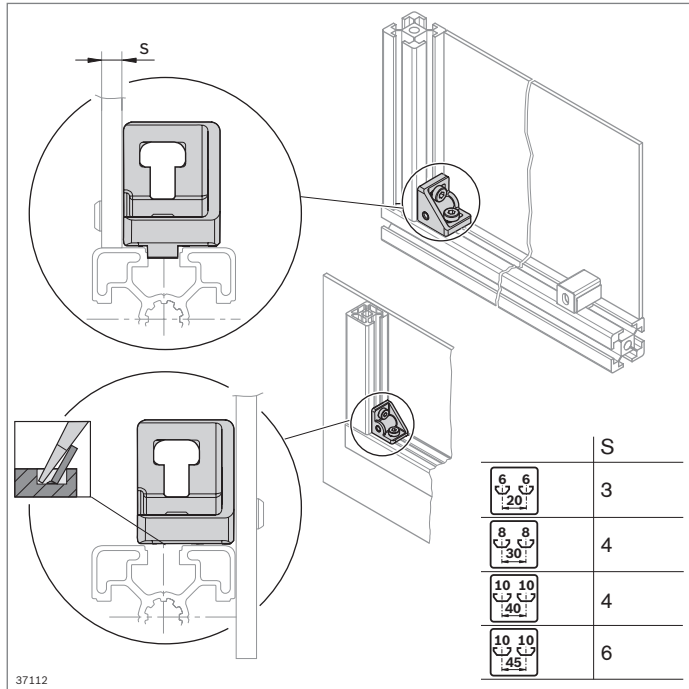
Material: PP; signal gray RAL 7004  
 Square nut: Steel; zinc-plated  
 Scope of delivery: Incl. square nut M4, cap

Variofix block S	Slot	No.
	8	10 <b>3 842 548 838</b>

Material: PP; signal gray RAL 7004  
 Square nut: Steel; zinc-plated  
 Scope of delivery: Incl. square nut M5, cap, locking ring

Variofix block S	Slot	No.
	10	10 <b>3 842 564 810</b>

Material: PA; signal gray RAL 7004  
 Square nut: Steel; zinc-plated  
 Scope of delivery: Incl. square nut M5, 2 x caps (d = 2.5 mm; d = 5 mm), locking ring



## Bracket S



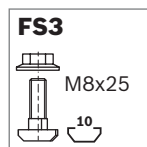
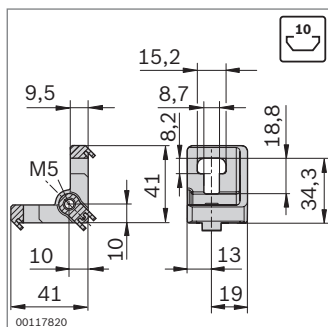
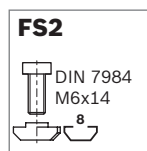
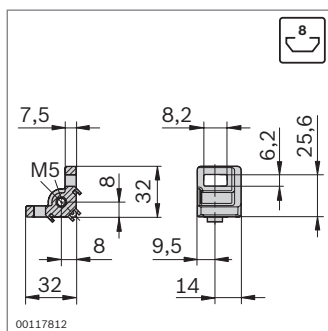
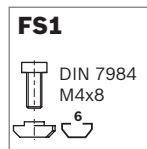
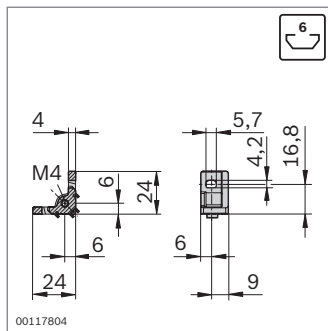
- ▶ Bracket with thread for virtually gap-free mounting of panel elements
- ▶ For subsequent installation in closed frame constructions
- ▶ Panel elements can be mounted in different positions: flush with the profile edge or situated in front of the profile (by breaking off the centering lug)

Required accessories:

Screw for fastening the panel element

Accessories, optional:

- ▶ Variofix block S (p. 7-7)
- ▶ Locking ring (p. 7-9)



Bracket S	Slot	No.	FS
20x20	6	20	3 842 536 489
20x20 set	6	1	3 842 536 670 2xFS1

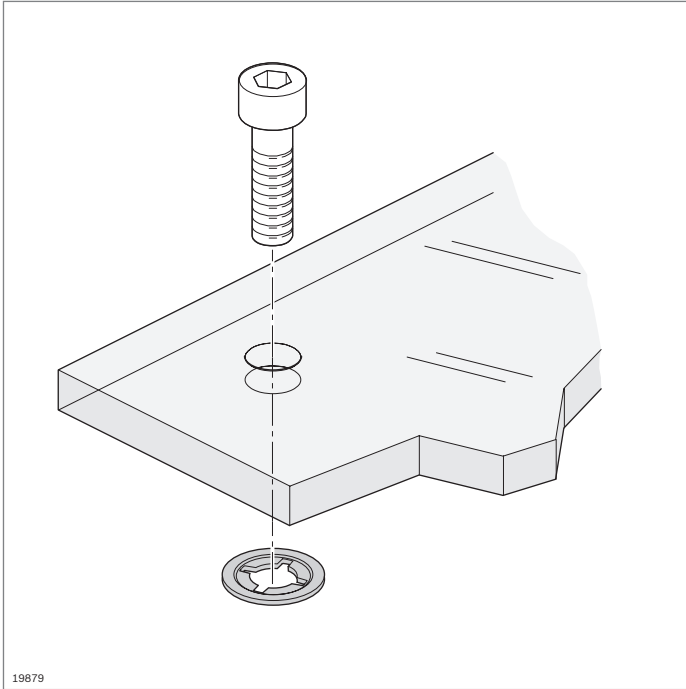
Material: Diecast aluminum  
Fastening material: Steel; zinc-plated  
Scope of delivery: Set incl. fastening material (FS)

Bracket S	Slot	No.	FS
30x30	8	20	3 842 536 490
30x30 set	8	1	3 842 536 671 2xFS2

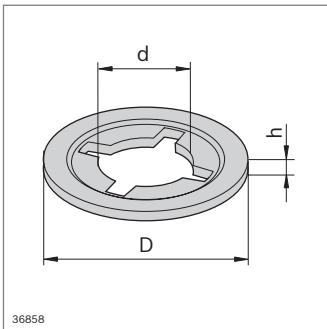
Material: Diecast aluminum  
Fastening material: Steel; zinc-plated  
Scope of delivery: Set incl. fastening material (FS)

Bracket S	Slot	No.	FS
40/45	10	20	3 842 536 491
40/45 set	10	1	3 842 536 672 2xFS3

Material: Diecast aluminum  
Fastening material: Steel; zinc-plated  
Scope of delivery: Set incl. fastening material (FS)



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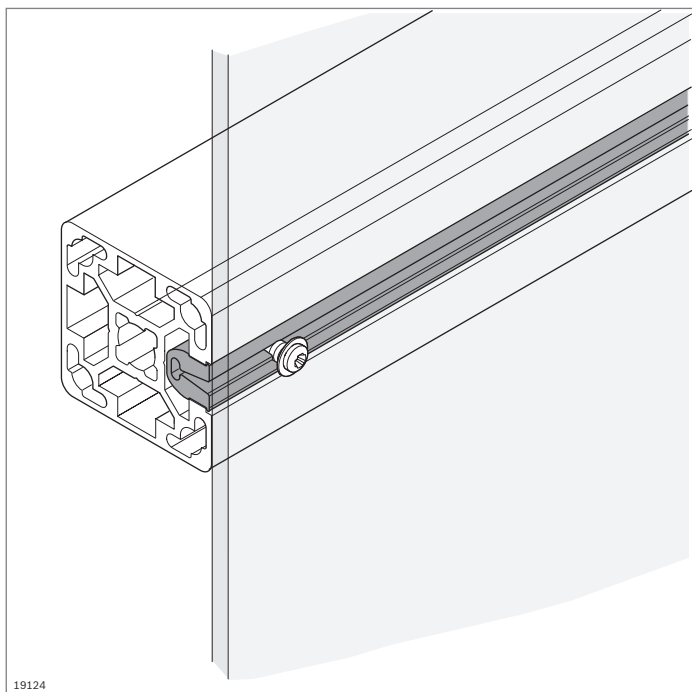
## Locking ring

- ▶ Secures the fastening screw to the panel element
- ▶ When using with bracket S, ensure that the support point for the panel element is raised
- ▶ Can be retrofitted
- ▶ For various thread sizes

7

Locking ring	D (mm)	d (mm)	h (mm)	 No.
<b>M4</b>	9.0	3.4	1.0	100 <b>3 842 542 328</b>
<b>M5</b>	10.0	4.5	1.0	100 <b>3 842 542 329</b>
<b>M6</b>	12.5	5.5	1.5	100 <b>3 842 542 330</b>

Material: PA; black



19124

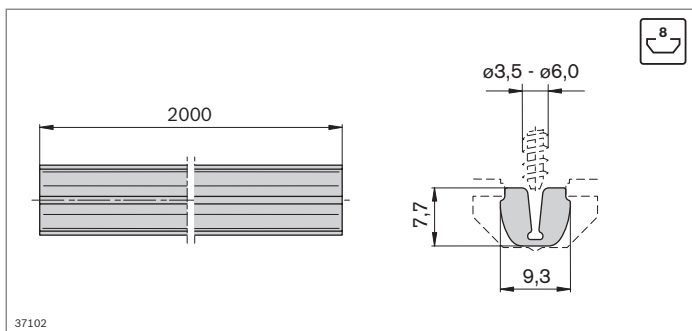
### Screw bar profile



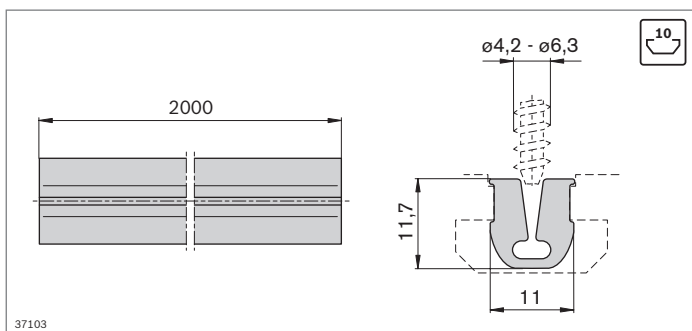
- ▶ Screw bar profile for fastening panel elements using commercially available sheet metal screws
- ▶ Clipping the screw bar profile into the profile slot
- ▶ Low-cost connection element

Required accessories:

Sheet metal screws for fastening panel elements



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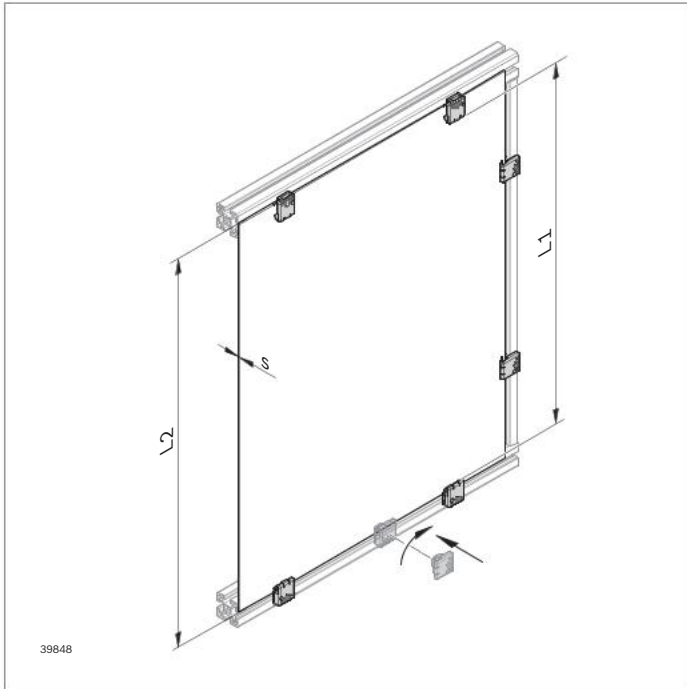
37103

Screw bar profile	Slot	L (mm)	No.
	8	2000	3 842 555 550

Material: PVC; signal gray RAL 7004

Screw bar profile	Slot	L (mm)	No.
	10	2000	3 842 555 552

Material: PVC; signal gray RAL 7004

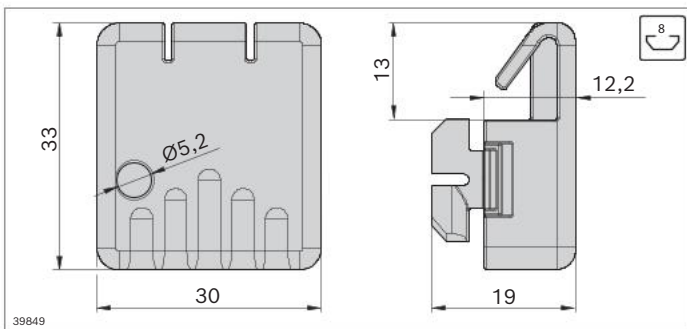


### Quick plate holder



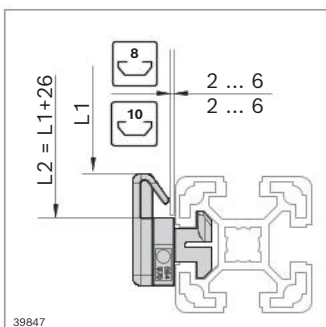
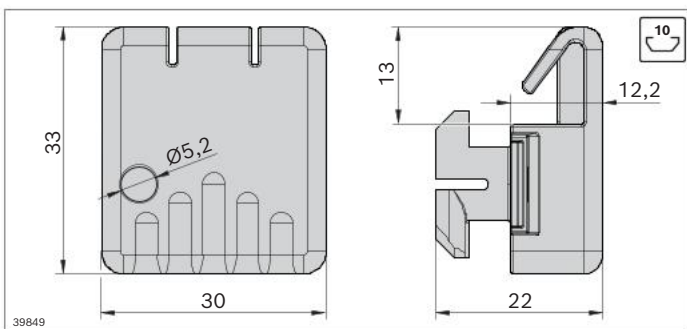
- ▶ Plate holder for virtually gap-free panel element mounting
- ▶ Holders for panel elements in front of the profile
- ▶ For panel elements with a thickness of  $s = 2 \dots 6$  mm
- ▶ For subsequent installation in closed frame constructions
- ▶ Protection against disassembly possible with headless setscrew (Machinery Directive 2006/42/EC)

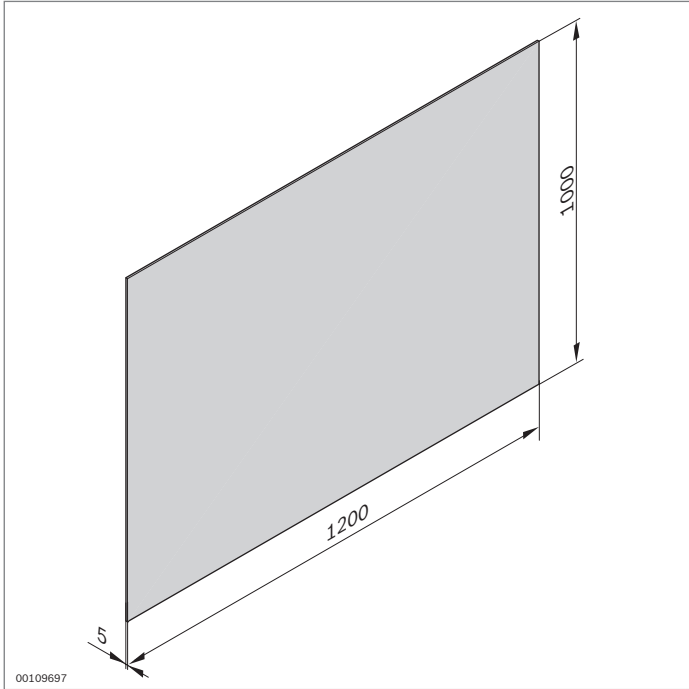
Accessories, recommended:  
Headless setscrew M5x10



Quick plate holder	Slot	No.
	8	10 3 842 564 671
	10	10 3 842 564 670

Material: POM; signal gray RAL 7004





## Universal plate



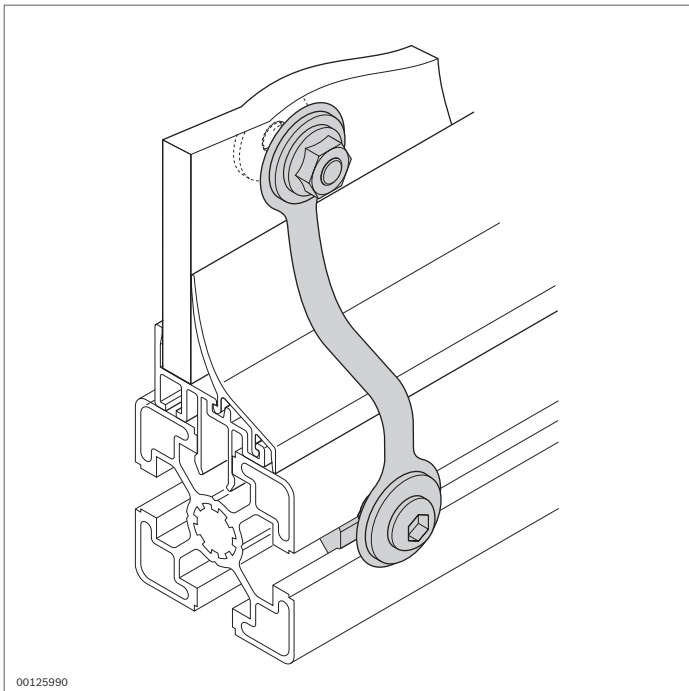
- For the construction of trays, material shuttles, or privacy shields on tables or frames

Accessories:

Frame profile, mounting of panel elements

Universal plate	ESD	No.
PP		3 842 516 837
PS		3 842 516 838

Material: PP: gray, smooth on one side, grained on the other  
PS: black, smooth on both sides



## Potential equalizer

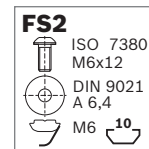
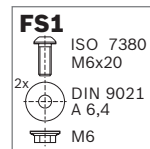


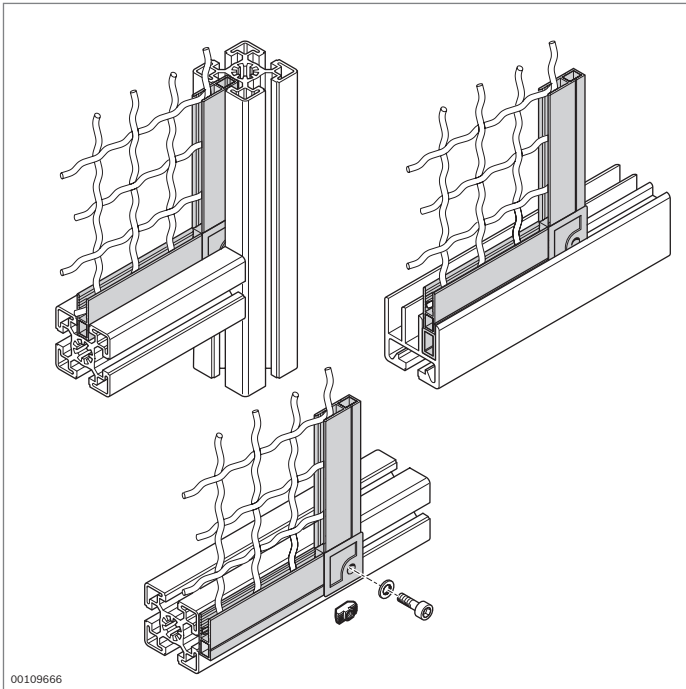
- Potential equalizer for creating electrostatic conduction between panel elements and strut profiles

Potential equalizer	ESD		No.	FS
		10	3 842 536 148	FS1, FS2

Material: Strip steel, stainless  
Fastening material: Steel; zinc-plated

Scope of delivery: Incl. fastening material (FS)





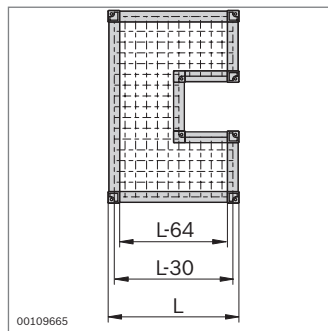
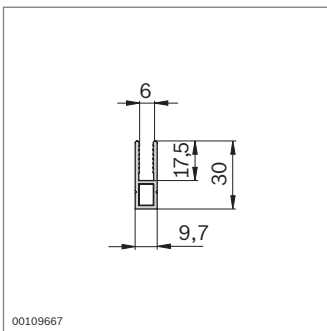
## Protective grille profile



- ▶ For constructing frames for woven wire grilles or panel elements
- ▶ For woven wire grilles with a wire diameter up to 3.1 mm
- ▶ For panel elements up to 6 mm thick
- ▶ Screw fitting of frame to the outside of strut profiles (subsequent installation)
- ▶ Insertion of frame into the slot of a strut profile or a sliding door profile Al 45
- ▶ Corner pieces for inner and outer corners

Accessories, optional:

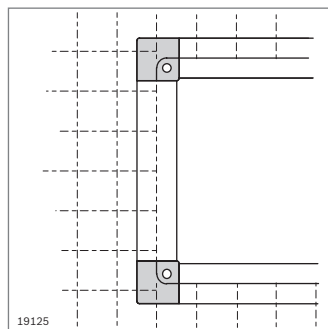
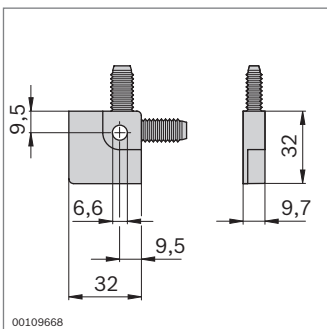
- ▶ T-nut M6 (p. 3-4)
- ▶ Screw M6



Protective grille profile	L (mm)	No.
	3000 <sup>1)</sup>	20 3 842 305 766

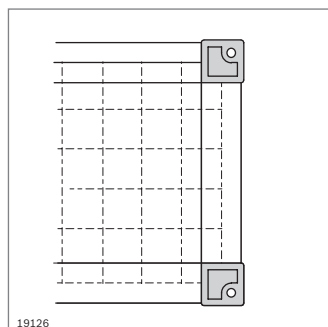
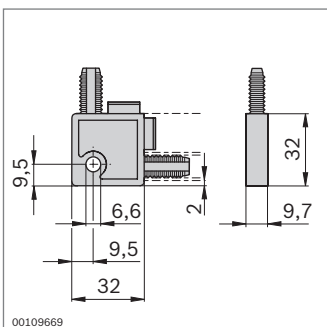
<sup>1)</sup> Due to the (anodic oxidation) contact points produced in the manufacturing process, supplied in profile length of 3100 mm

Material: Aluminum; black anodized



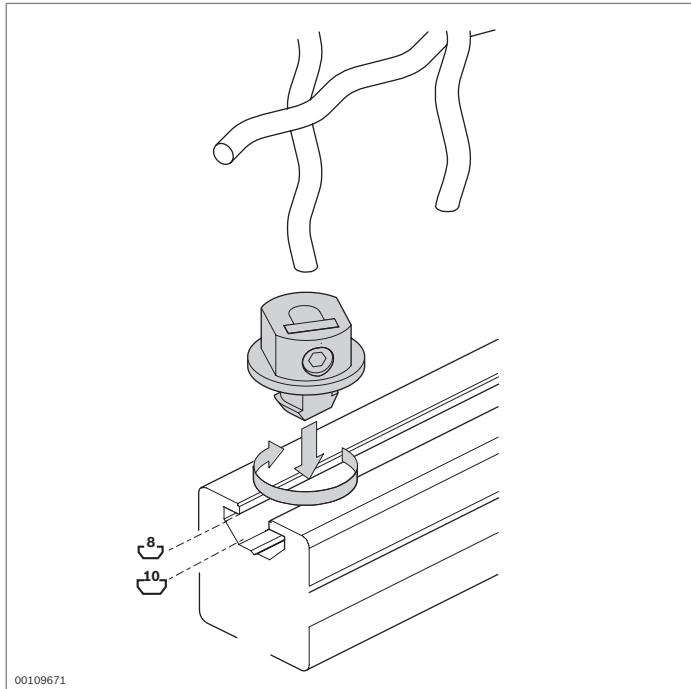
Inner corner piece	No.
	20 3 842 305 768

Material: PA; black



Outer corner piece	No.
	20 3 842 305 767

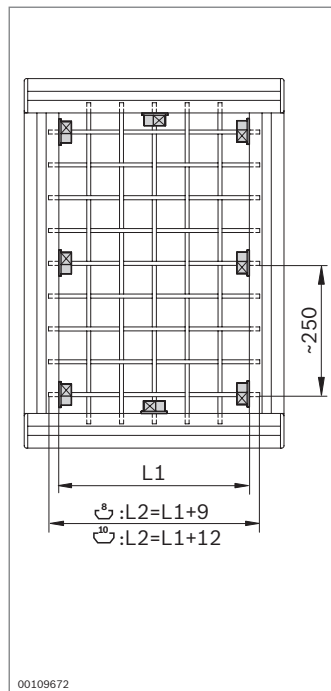
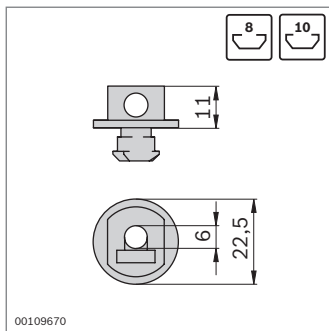
Material: PA; black



## Clamp bushing



- ▶ For fastening woven wire grilles in the profile slot
- ▶ For woven wire grilles with a wire diameter up to 3.1 mm
- ▶ Suitable for 8 mm and 10 mm slots
- ▶ Low-cost connection element
- ▶ Rattle-free mounting



Clamp bushing	Slot	No.	FS
	8, 10	100	3 842 515 244 FS1

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

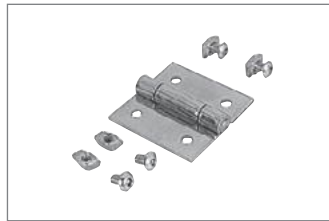
### FS1

- EN ISO 4027  
M6x10
- DIN 562  
M6-04

# Doors and fittings



Hinge profile  
(p. 8-3)



Hinge  
(p. 8-4)



Hinge, plastic  
(p. 8-5)



Plastic double hinge  
(p. 8-6)



Hinge, aluminum  
(p. 8-7)



LIFTOFF hinge  
(p. 8-8)



Hinge, removable  
(p. 8-9)



Hinge, adjustable  
(p. 8-10)



Folding door element  
(p. 8-11)



Door lock for swing and  
sliding doors  
(p. 8-12)



Door lock  
(p. 8-13)



Door lock for EcoSafe  
sliding doors  
(p. 8-14)



Door lock for swing doors  
(p. 8-15)



Door lock Multi Use  
(p. 8-16)



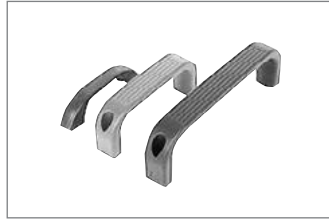
Door lock Compact  
(p. 8-18)



Chamber lock  
(p. 8-20)



Mortise lock for swing doors (p. 8-22)



Bow-type handle (p. 8-24)



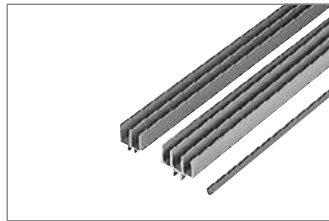
Safety handle (p. 8-25)



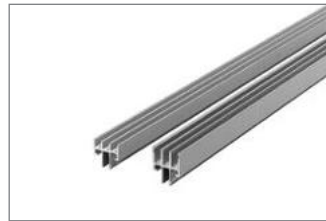
Sealing strip (p. 8-26)  
Sealing profile (p. 8-27)



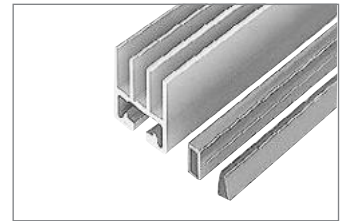
Slider (p. 8-28)



Sliding door profile PVC (p. 8-29)



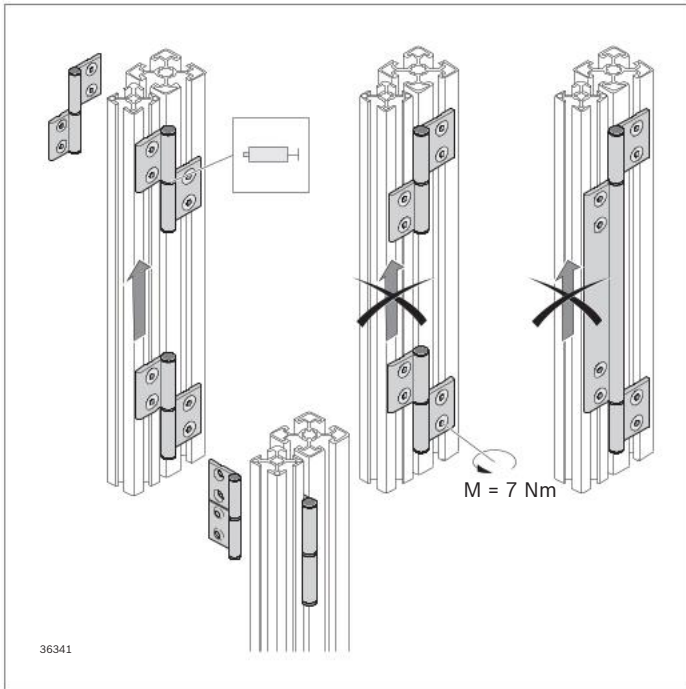
Sliding door profile Al clip-in (p. 8-30)



Sliding door profile Al 45 (p. 8-31)



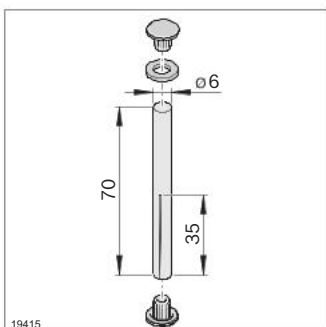
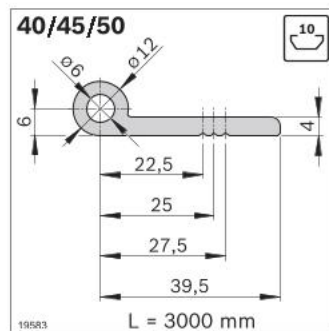
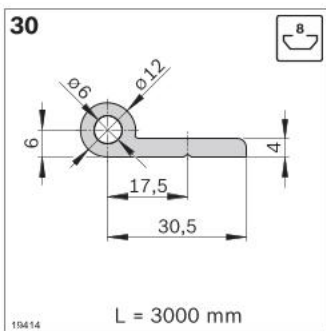
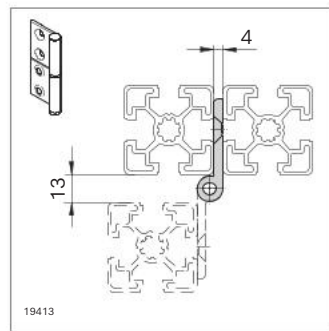
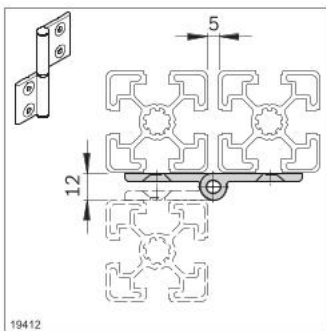
Edge protector, door handle profile (p. 8-33)



### Hinge profile



- ▶ For self-assembly of hinges or hinge bands
- ▶ Possible to use as a non-transparent hinge band to fully cover the door gap
- ▶ Hinge profiles for slot dimensions 30 and 40/45/50 can also be combined for maximum flexibility
- ▶ For doors with profile frames or doors made of solid panel elements
- ▶ Assembly on exterior or interior
- ▶ Assembly as removable and non-removable hinges
- ▶ Opening to the right and left
- ▶ Centering slots as a drill guide for mounting bores
- ▶ Required finishing:
  - Cut the hinge halves to length
  - Drill holes for fixing



#### Required accessories:

- ▶ Hinge pins
- ▶ T-nut M6 (p. 3-4)
- ▶ Screw ISO 10642 M6x12 (8 mm slot)
- ▶ screw ISO 10642 M6x16 (10 mm slot)

Hinge profile	L (mm)	No.
30	3000 <sup>1)</sup>	10 <b>3 842 543 371</b>
40/45/50	3000 <sup>1)</sup>	10 <b>3 842 543 372</b>

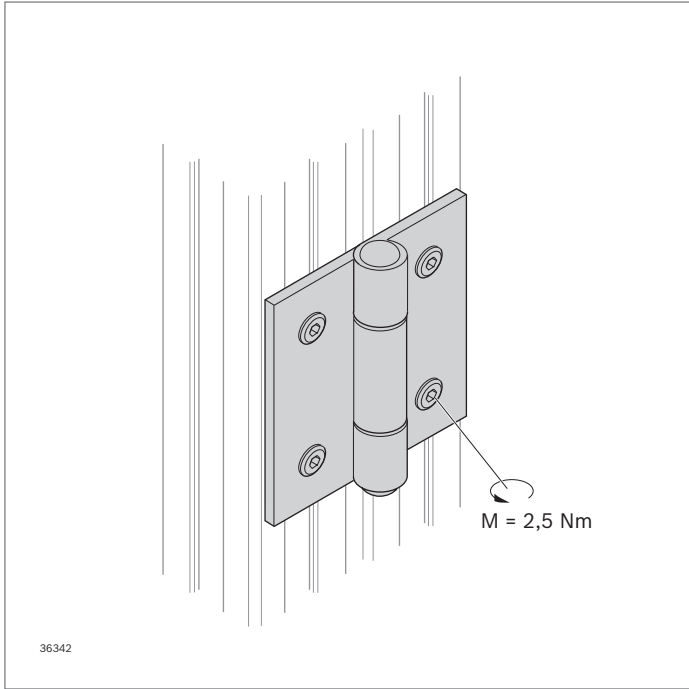
<sup>1)</sup> Due to the (anodic oxidation) contact points produced in the manufacturing process, supplied in profile length of 3100 mm  
Material: Aluminum; anodized

Slot	F <sub>max</sub>
8	300 N
10	300 N

Hinge pins	No.
	10 <b>3 842 544 661</b>

Material: Grooved pin: Steel; zinc-plated  
Washer: PA, cover cap: TPE

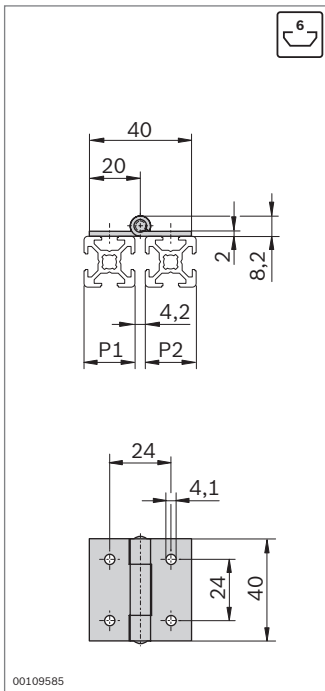
Scope of delivery: Incl. grooved pin, 2 x cover cap, washer



## Hinge



- ▶ Assembly possible on solid panel elements
- ▶ For small doors and flaps
- ▶ Steel hinge for profiles with 6 mm slot

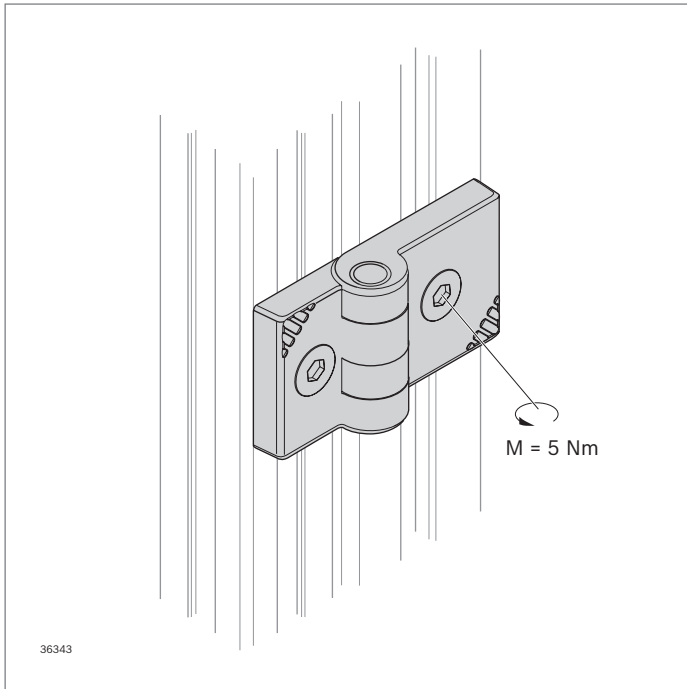


Slot	
6	 300 N

FS1	
 ISO 7380 M4x6	

Hinge	P1 (mm)	P2 (mm)	ESD	No.	FS
	20	20		2 3 842 535 684	4xFS1

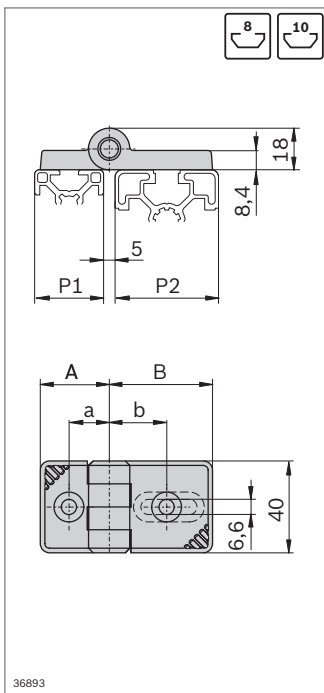
Material: Steel; stainless  
Fastening material: Steel; zinc-plated  
Scope of delivery: Incl. fastening material (FS)



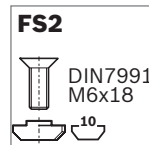
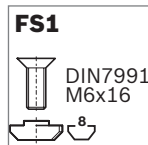
### Hinge, plastic



- ▶ Plastic hinge for profiles with 8 mm or 10 mm slot
- ▶ Assembly possible on solid panel elements
- ▶ Centering bolts for easing mounting and as an anti-torsion element



Slot	
8	150 N
10	150 N

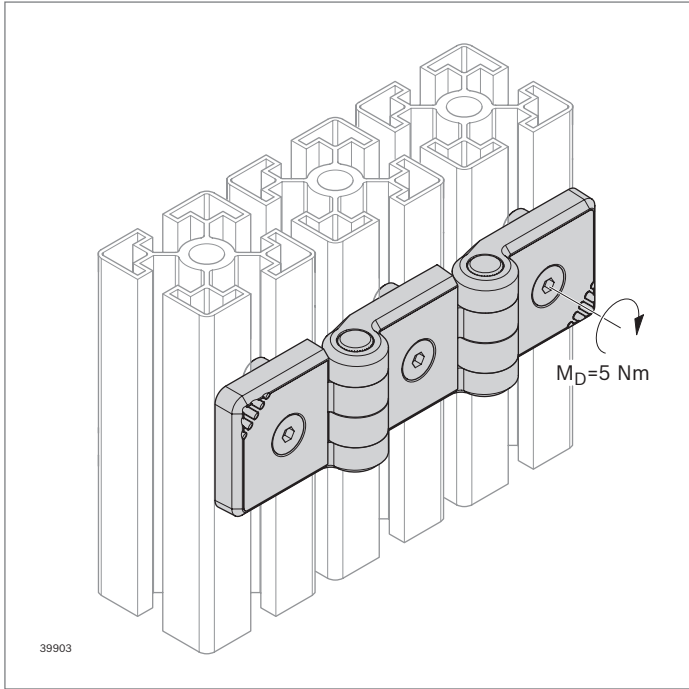


Hinge, plastic	P1 (mm)	P2 (mm)		No.	FS
	30	30	2	<b>3 842 554 458</b>	2xFS1
	30	40/50	2	<b>3 842 554 460</b>	1xFS1, 1xFS2
	30	45	2	<b>3 842 554 462</b>	1xFS1, 1xFS2
	30	60	2	<b>3 842 554 464</b>	1xFS1, 1xFS2
	40/50	40/50	2	<b>3 842 554 466</b>	2xFS2
	45	45	2	<b>3 842 554 468</b>	2xFS2
	45	60	2	<b>3 842 554 470</b>	2xFS2
	60	60	2	<b>3 842 554 472</b>	2xFS2

Material: PA; signal gray  
 Hinge axle: Steel; zinc-plated  
 Fastening material: Steel; zinc-plated

Scope of delivery: Incl. fastening material (FS)

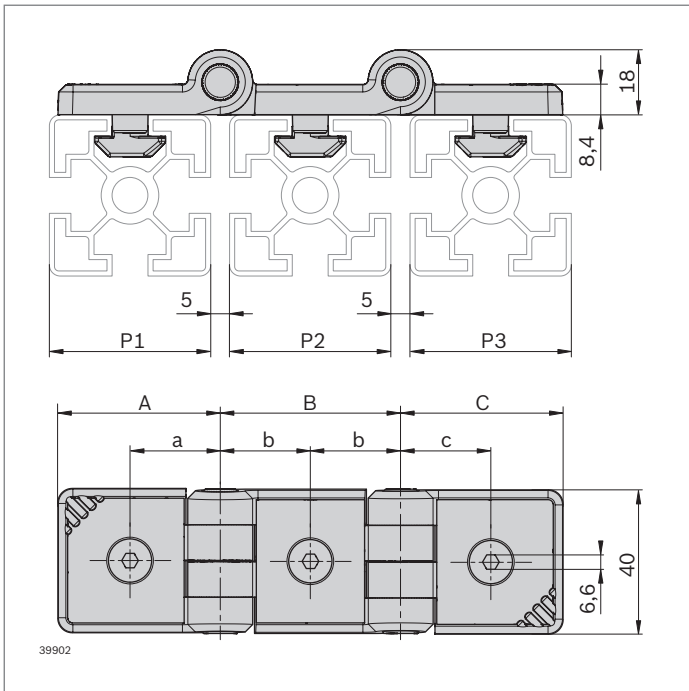
P1/P2 (mm)	A/B (mm)	a/b (mm)
30	30	17.5
40	39	22.5
45	45	25.0
50	39	27.5
60	60	32.5



## Plastic double hinge



- ▶ Plastic double hinge for profiles with 8 mm or 10 mm slot
- ▶ Assembly possible on solid panel elements
- ▶ Centering bolts for easing mounting and as an anti-torsion element

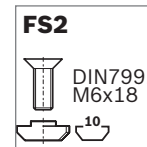
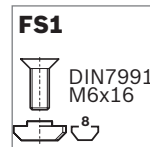


Plastic double hinge	Slot (mm)	P1 (mm)	P2 (mm)	P3 (mm)	ESD	No.	FS
	8	30	30	30	⚠	2 3 842 564 133	3xFS1
	10	45	45	45	⚠	2 3 842 564 130	3xFS2

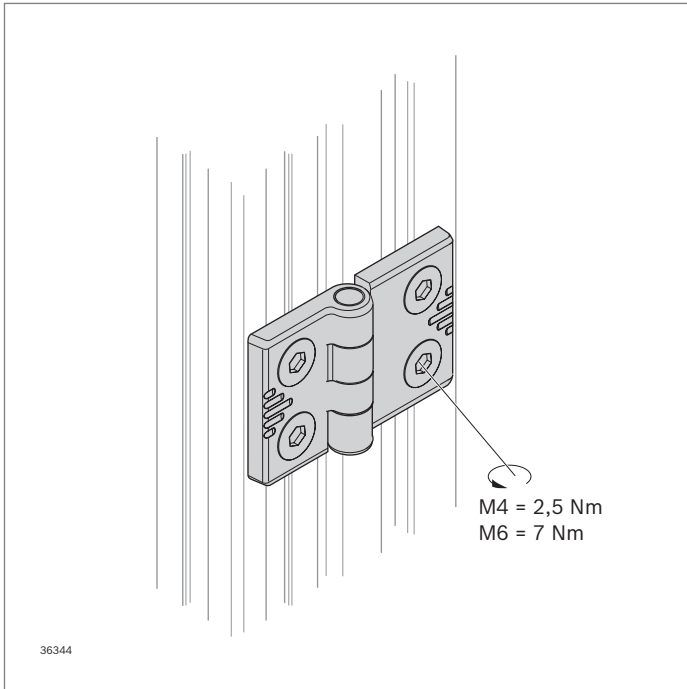
Material: Hinge: PA; signal gray  
 Axis: Steel, galvanized  
 Fastening material: Steel; zinc-plated

Scope of delivery: Incl. Fastening material

Slot	$F_{max}$
8	150 N
10	150 N



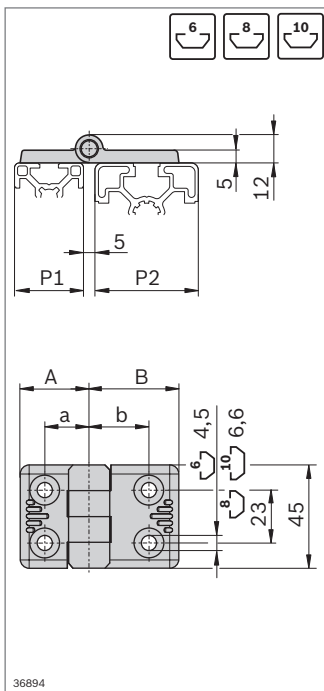
P1/P2/P3 (mm)	A/C (mm)	B (mm)	a/b/c (mm)
45	45	50	25
30	30	35	17.5

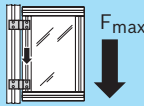


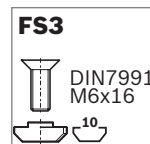
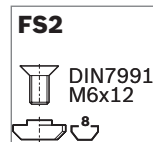
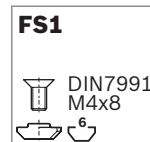
## Hinge, aluminum











- ▶ Aluminum hinge for all slot systems
- ▶ Assembly possible on solid panel elements
- ▶ High-quality version
- ▶ Conductive version
- ▶ Suitable for use under cleanroom conditions thanks to wear-resistant guide bushings
- ▶ Tested for particulate emissions.  
Report No. BO2112-1289



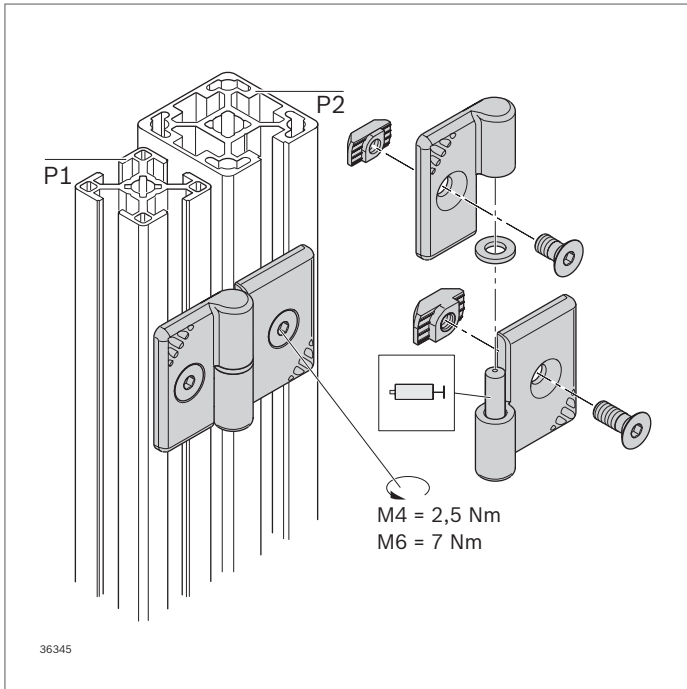
Slot	 $F_{max}$
6	300 N
8	300 N
10	300 N



Hinge, aluminum	P1 (mm)	P2 (mm)	ESD	No.	FS
	20	20		2 <b>3 842 544 525</b>	4xFS1
	20	30		2 <b>3 842 544 526</b>	2xFS1, 2xFS2
	30	30		2 <b>3 842 544 527</b>	4xFS2
	30	40		2 <b>3 842 544 528</b>	2xFS2, 2xFS3
	30	45		2 <b>3 842 544 529</b>	2xFS2, 2xFS3
	40	40		2 <b>3 842 544 530</b>	4xFS3
	45	45		2 <b>3 842 544 531</b>	4xFS3

Material: Diecast aluminum; nickel-plated  
Fastening material: Steel; zinc-plated  
Scope of delivery: Incl. fastening material (FS)

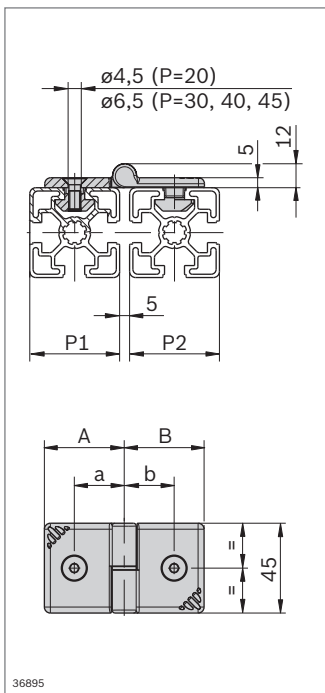
P1/P2 (mm)	A/B (mm)	a/b (mm)
20	20	12.5
30	28	17.5
40	37	22.5
45	40	25.0



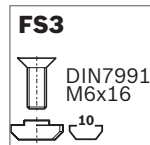
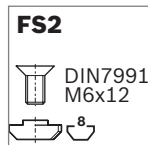
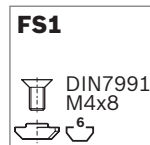
### LIFTOFF hinge



- ▶ Removable compact hinge, opening to the right or left
- ▶ designLINE version with special silver paint (RAL 9006) for an attractive, high-quality design
- ▶ Centering lugs as an assembly aid and anti-torsion element



Slot	
6	300 N
8	300 N
10	300 N

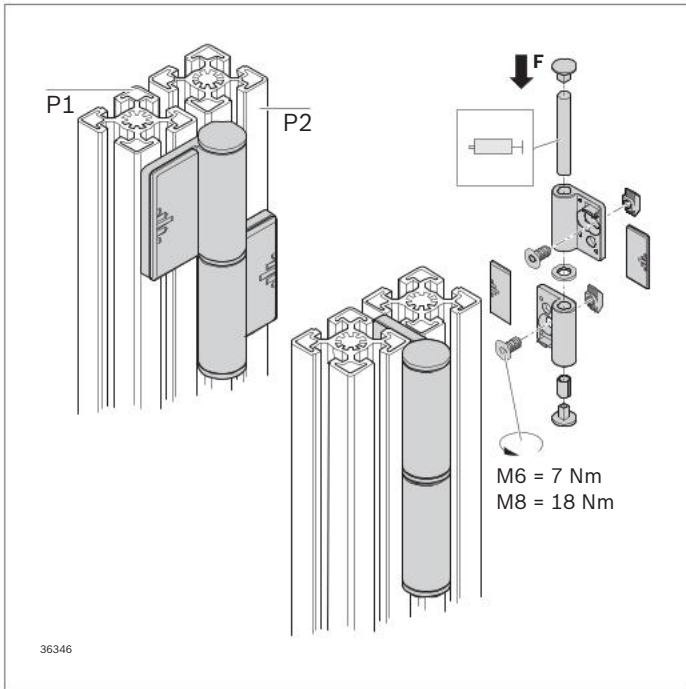


LIFTOFF hinge	P1 (mm)	P2 (mm)		No.	FS
right	20	20	2	<b>3 842 543 334</b>	2xFS1, FS4
	20	30	2	<b>3 842 543 333</b>	FS1, FS2, FS4
	30	30	2	<b>3 842 543 332</b>	2xFS2, FS4
	30	40	2	<b>3 842 543 331</b>	FS2, FS3, FS4
	30	45	2	<b>3 842 543 330</b>	FS2, FS3, FS4
	40	40	2	<b>3 842 543 329</b>	2xFS3, FS4
	45	45	2	<b>3 842 543 328</b>	2xFS3, FS4
left	20	20	2	<b>3 842 543 327</b>	2xFS1, FS4
	20	30	2	<b>3 842 543 326</b>	FS1, FS2, FS4
	30	30	2	<b>3 842 543 325</b>	2xFS2, FS4
	30	40	2	<b>3 842 543 324</b>	FS2, FS3, FS4
	30	45	2	<b>3 842 543 323</b>	FS2, FS3, FS4
	40	40	2	<b>3 842 543 322</b>	2xFS3, FS4
	45	45	2	<b>3 842 543 321</b>	2xFS3, FS4

Material: Hinge: Diecast aluminum, painted  
Fastening material: Steel; zinc-plated  
Grooved pin: Steel; zinc-plated  
Washer: PA

Scope of delivery: Incl. fastening material (FS)

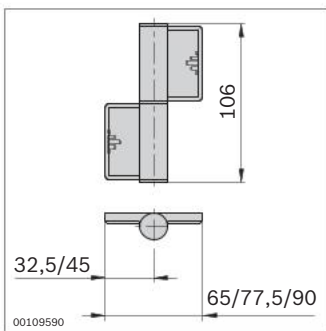
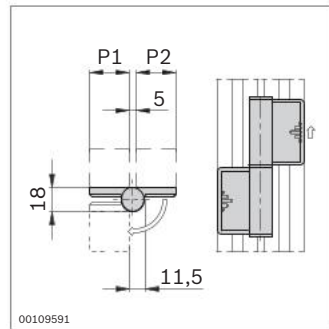
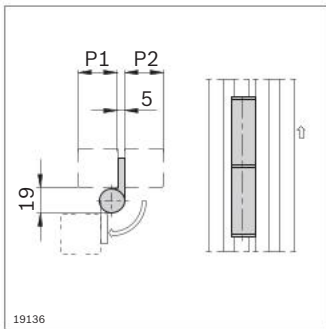
P1/P2 (mm)	A/B (mm)	a/b (mm)
20	20	12.5
30	28	17.5
40	37	22.5
45	40	25.0

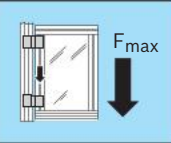


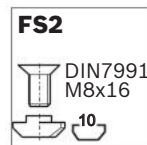
### Hinge, removable






- ▶ For constructing large, heavy doors
- ▶ Removable
- ▶ For left and right stop
- ▶ Externally mounted: Opening angle approx. 180°
- ▶ Internally mounted: Prevents unauthorized removal, e.g. for safety devices



Slot	
8	300 N
10	300 N

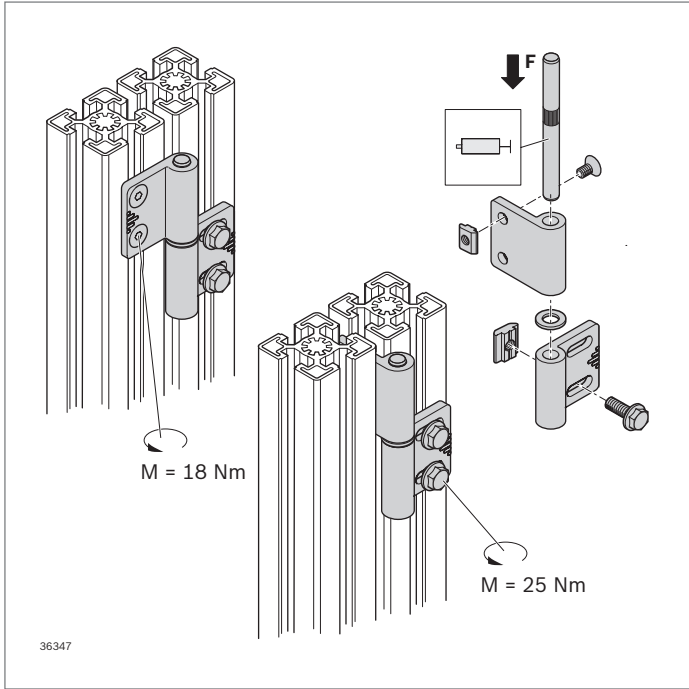


Hinge, removable	P1 (mm)	P2 (mm)		No.	FS
	30	30	2	<b>3 842 555 572</b>	2xFS1
	30	45	2	<b>3 842 555 574</b>	1xFS1, 1xFS2
	30 <sup>1)</sup>	60			
	45	45	2	<b>3 842 555 576</b>	2xFS2
	45 <sup>1)</sup>	60			
	60 <sup>1)</sup>	60			

<sup>1)</sup> Not suitable for installing on inner side

Material: Hinge: Diecast zinc  
Cover cap: PA; signal gray  
Fastening material: Steel; zinc-plated

Scope of delivery: Incl. fastening material (FS), 2 x cover cap



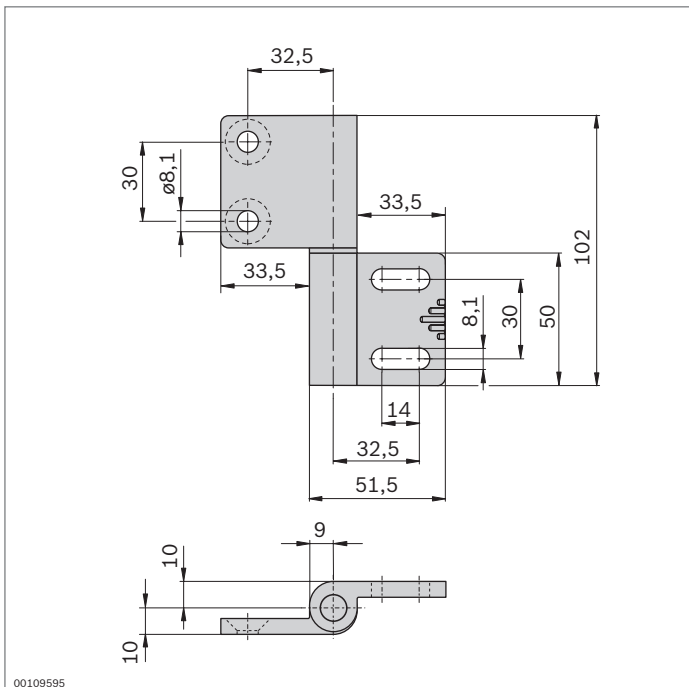
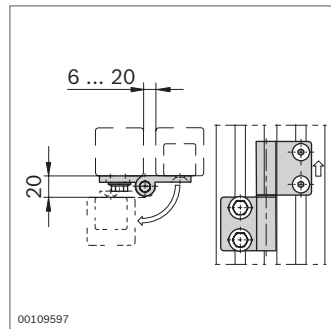
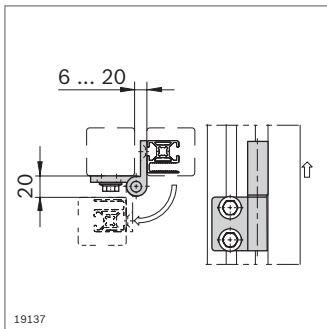
### Hinge, adjustable



- ▶ For constructing large, heavy doors
- ▶ Adjustable for compensating clearance tolerances
- ▶ Removable
- ▶ For left and right stop
- ▶ Opening angle approx. 180°

Accessories:

T-nut slot 10, M8 (p. 3-4) for fixing a door with 10 mm slot



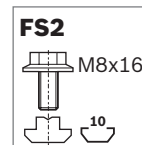
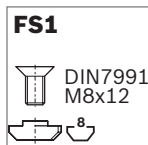
Hinge, adjustable	No.	FS
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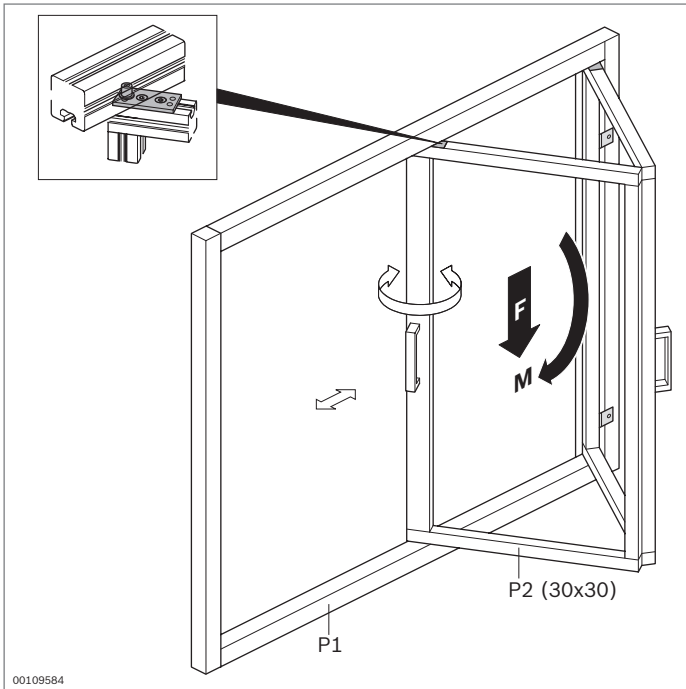


2	<b>3 842 544 562</b>	2xFS1, 2xFS2
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Material: Diecast aluminum  
 Fastening material: Steel; zinc-plated  
 Scope of delivery: Incl. fastening material (FS)

Slot	
8	300 N
10	300 N



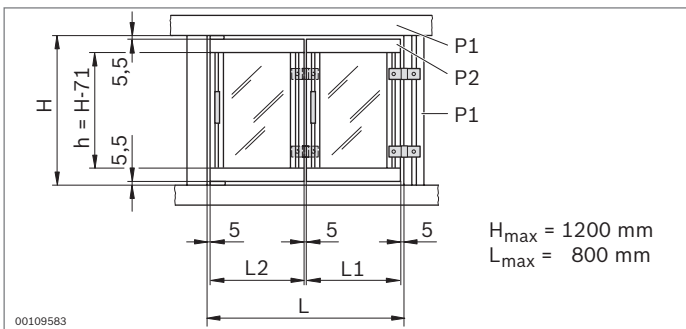


00109584

### Folding door element

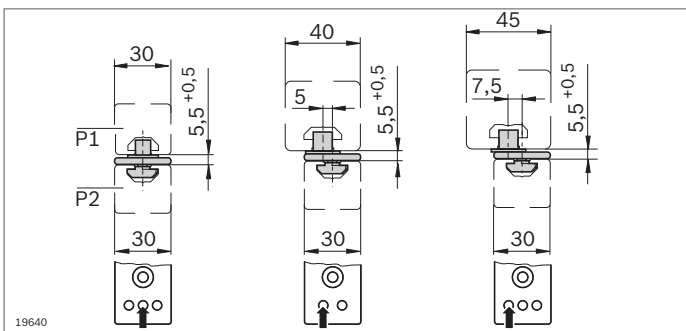


- ▶ For a simultaneous swinging and sliding action on folding doors made of 30 mm profiles
- ▶ Very long service life (approx. 50000 actuations)
- ▶ Suitable for frames made of profiles with 8 mm and 10 mm slot
- ▶ The frame and door profile are always flush (the guide ring position depends on the thickness of the frame profile)

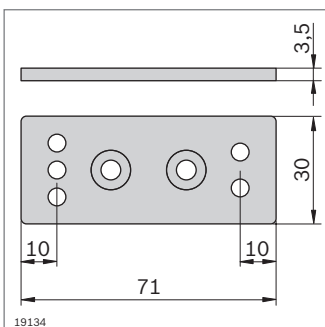


00109583

P2 (mm)	P1 (mm)	L1 (mm)	L2 (mm)
30x30	45x45	0,5L - 29.5	0,5L + 14.5
	40x40	0,5L - 28.3	0,5L + 13.3
	30x30	0,5L - 25.8	0,5L + 10.8



19640

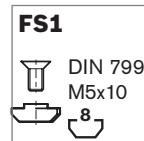


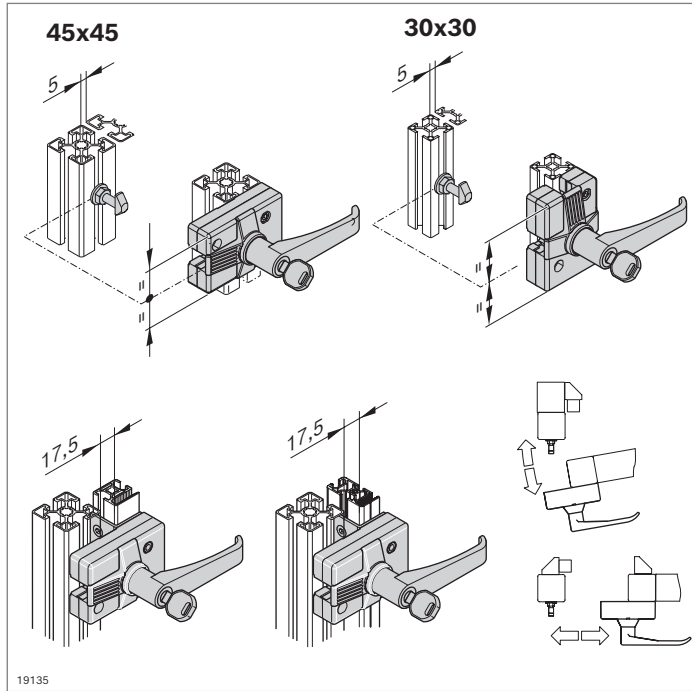
19134

Slot	$F_{max}$	$M_{max}$
8	120 N	20 Nm
10	120 N	20 Nm

Folding door element	No.	FS
	<b>3 842 516 715</b>	2xFS1

Material: Folding door element: Diecast zinc  
 Guide ring: PA; black  
 Fastening material: Steel; zinc-plated  
 Scope of delivery: Incl. fastening material (FS)





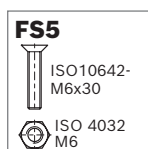
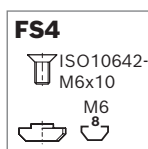
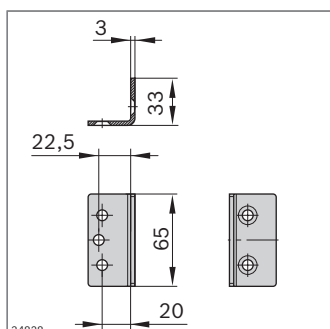
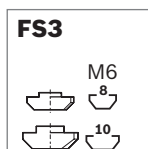
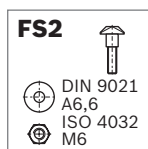
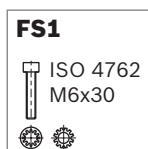
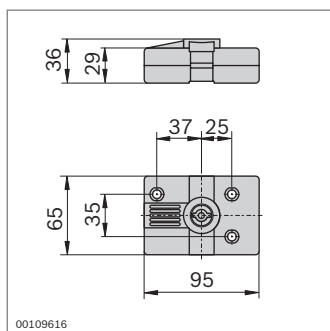
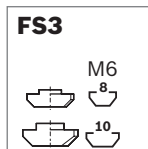
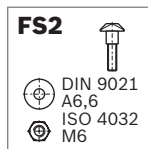
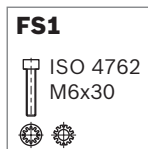
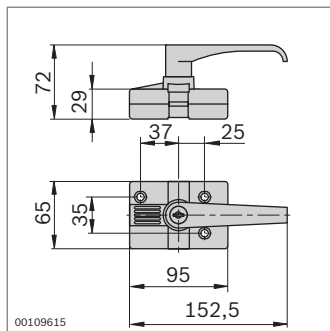
## Door lock for swing and sliding doors



- ▶ Opening to the right and left
- ▶ Suitable for profiles 45x45 and 30x30
- ▶ “Standard locking” variant with random key selection (each lock has a different key)
- ▶ “Uniform locking” variant always has the same key
- ▶ Version with door handle or as two-way lock

### Accessories:

Adapter plate for connecting to a 22.5x45 frame profile (p. 10-41) or a WG40 or WG30 woven wire grille profile (p. 10-28)



Door lock	No.	FS
<b>Standard locking</b>	30x30, 45x45	<b>3 842 525 821</b> 2xFS1, 1xFS2, 3xFS3
<b>Uniform locking</b>	30x30, 45x45	<b>3 842 525 822</b> 2xFS1, 1xFS2, 3xFS3

Material: Housing: Diecast aluminum  
Door handle: PA; black  
Fastening material: Steel; zinc-plated  
Scope of delivery: Incl. 3 keys, fastening material (FS)

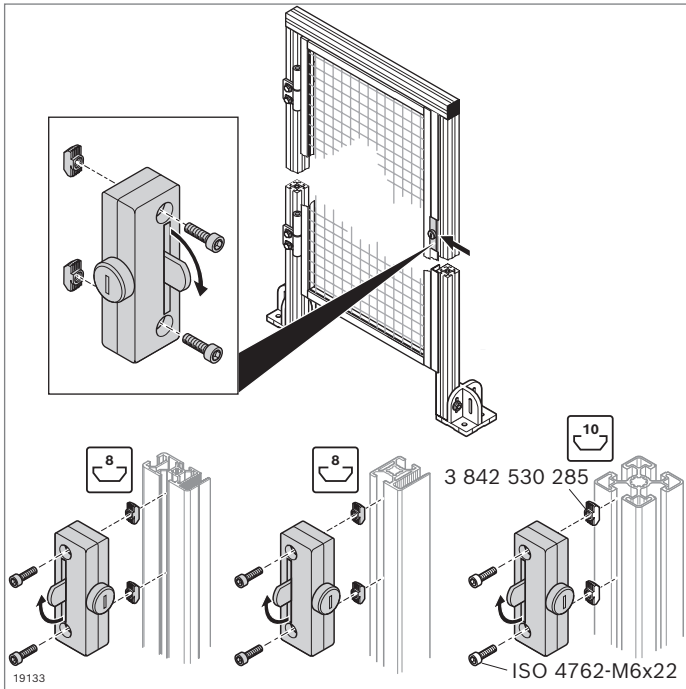
Door lock	No.	FS
	30x30, 45x45	<b>3 842 525 823</b> 2xFS1, FS2, 3xFS3

Material: Diecast aluminum  
Fastening material: Steel; zinc-plated  
Scope of delivery: Incl. 1 x two-way key, fastening material (FS)

- ▶ Adapter plate for mounting the door lock on an EcoSafe protective frame (p. 10-25 ff)

Adapter plate EcoSafe PG	ESD No.	FS
	<b>3 842 567 960</b>	2xFS4, 2xFS5

Material: Steel; zinc-plated  
Scope of delivery: Incl. Fastening material



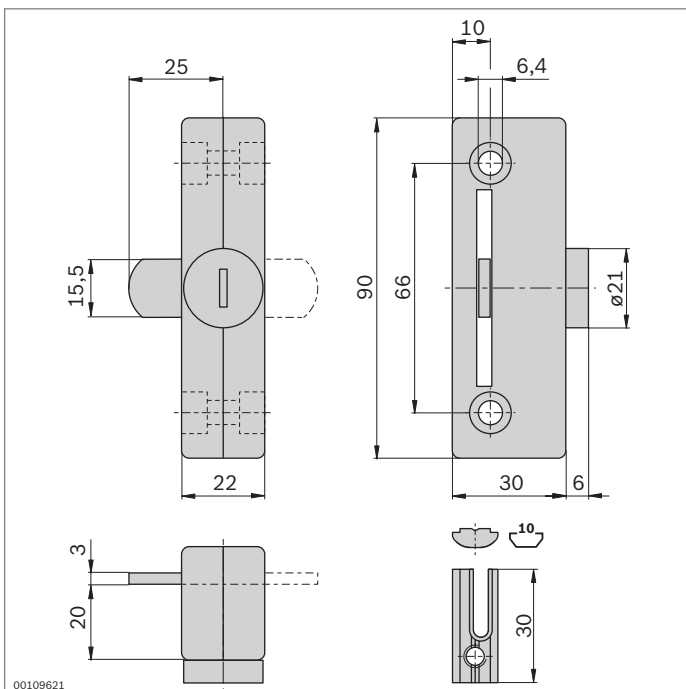
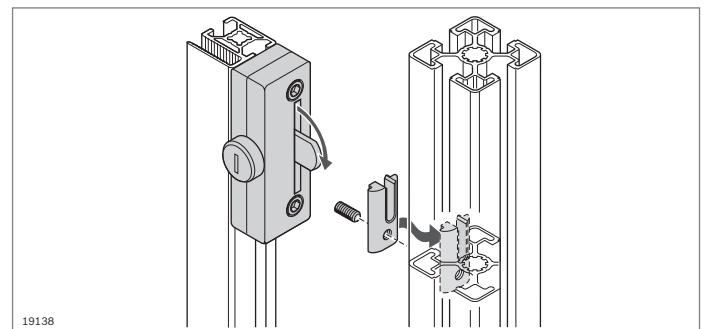
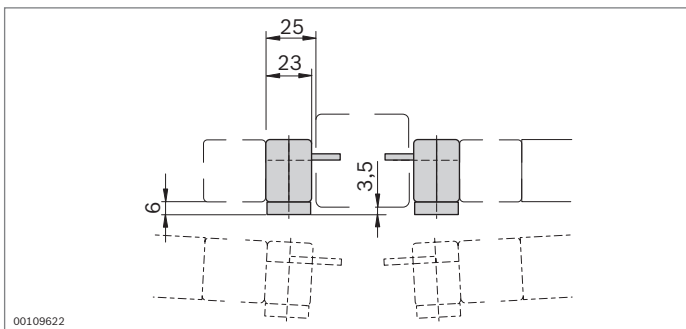
## Door lock



- ▶ Opening to the right and left
- ▶ For frame profile 30x30 WG (EcoSafe protective fence system); incl. fastening material
- ▶ “Standard locking” variant with random key selection (each lock has a different key)
- ▶ “Uniform locking” variant always has the same key

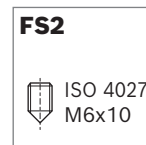
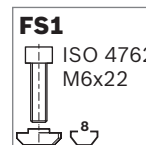
Accessories for assembly on profile with 10 mm slot:

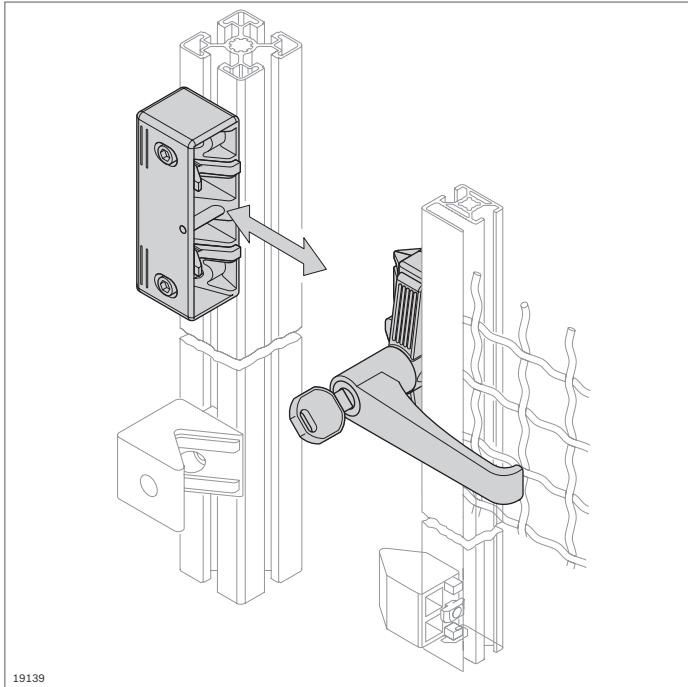
- ▶ 2 x T-nut M6, **3 842 530 285** (p. 3-4)
- ▶ 2 x screw ISO4762 M6x22



Door lock	No.	FS
Standard locking	3 842 522 479	2xFS1, 1xFS2
Uniform locking	3 842 571 998	2xFS1, 1xFS2

Material: Diecast zinc  
Fastening material: Steel; zinc-plated  
Scope of delivery: Incl. 3 keys, fastening material (FS)





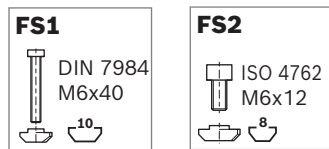
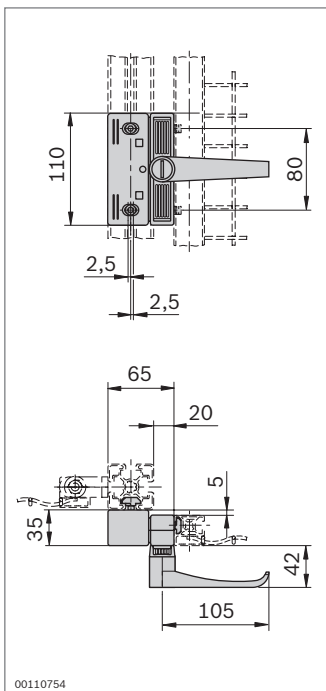
### Door lock for EcoSafe sliding doors



- ▶ Opening to the right and left
- ▶ “Standard locking” variant with random key selection (each lock has a different key)
- ▶ “Uniform locking” variant always has the same key

Accessories, optional:

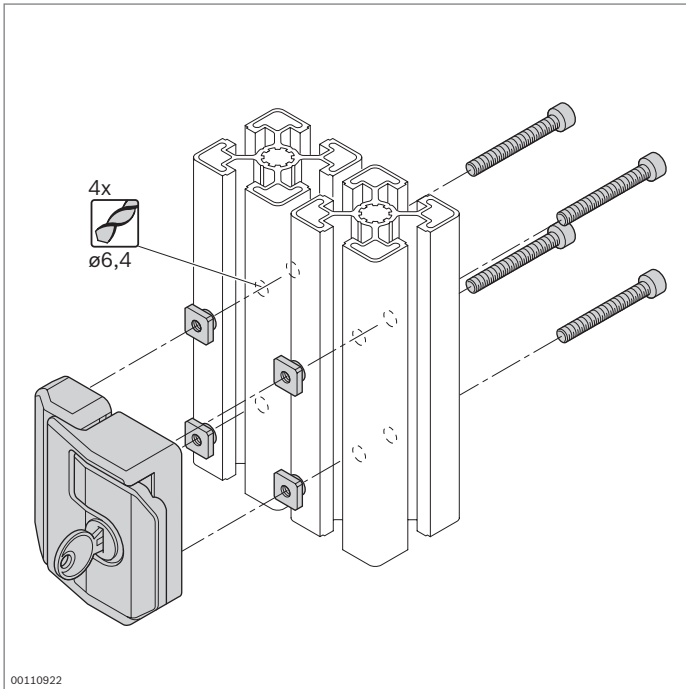
Stop kit for cushioned closing of the doors (p. 12-5)



Door lock for sliding doors	No.	FS
<b>Standard locking</b>	<b>3 842 525 946</b>	2xFS1, 2xFS2
<b>Uniform locking</b>	<b>3 842 525 947</b>	2xFS1, 2xFS2

Material: Housing: Diecast aluminum  
 Door handle: PA; black  
 Cover cap: PA6  
 Fastening material: Steel; zinc-plated

Scope of delivery: Incl. 3 keys, fastening material (FS)

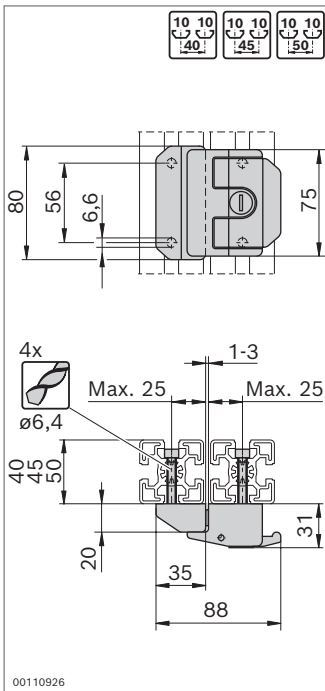


00110922

## Door lock for swing doors



- ▶ Opening to the right and left
- ▶ Self-locking mechanism in the closed position
- ▶ Smooth closing
- ▶ Ergonomically designed folding handle for opening
- ▶ “Standard locking” variant with random key selection (each lock has a different key)
- ▶ “Uniform locking” variant always has the same key
- ▶ Profile finishing: Drill hole D6.4



00110926

### FS1

ISO 4762  
M6x35



### FS2

ISO 4762  
M6x40

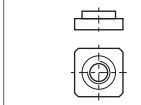


### FS3

ISO 4762  
M6x45

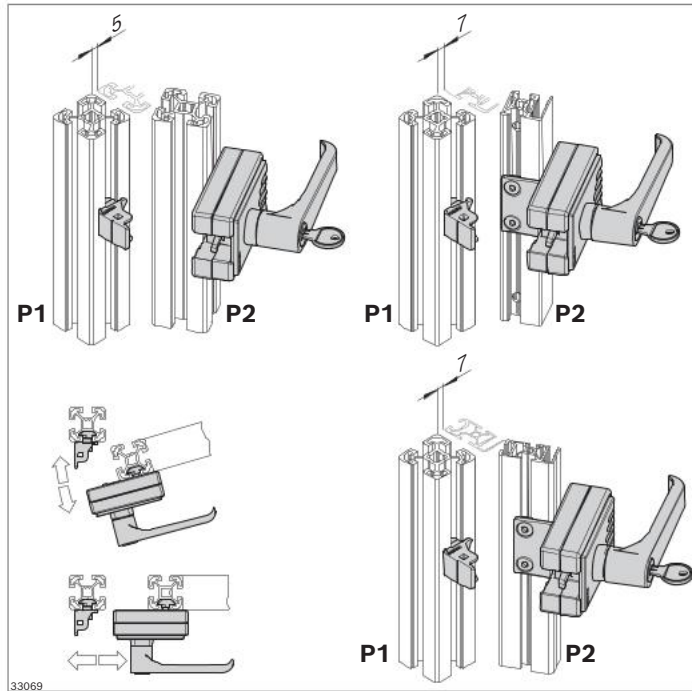


### FS4



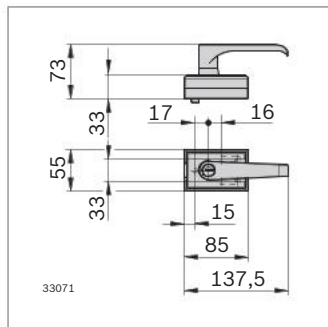
Door lock	No.	FS
<b>Standard locking</b>	<b>3 842 530 353</b>	4xFS1, 4xFS2, 4xFS3, 4xFS4
<b>Uniform locking</b>	<b>3 842 530 352</b>	4xFS1, 4xFS2, 4xFS3, 4xFS4

Material: Diecast zinc; black powder-coated  
Fastening material: Steel; zinc-plated  
Scope of delivery: Incl. 2 keys, fastening material (FS)




33069

P1	P2	P2	P2	P2	P2	P2
30	22.5x45	WG30/40	30	-	-	-
40	22.5x45	WG30/40	30	40	-	-
45	22.5x45	WG30/40	30	40	45	-
50	22.5x45	WG30/40	30	40	45	50
60	22.5x45	WG30/40	30	40	-	-



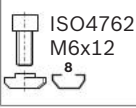
33071

**FS1**



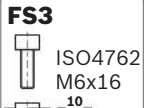
ISO 7089-6

**FS2**




ISO 4762  
M6x12

**FS3**




ISO 4762  
M6x16

**FS4**



DIN 7984  
M6x30

**FS5**



DIN 7984  
M6x35

## Door lock “Multi Use” for swing and sliding doors



- ▶ Opening to the right and left
- ▶ For numerous profile combinations
- ▶ “Standard locking” variant with random key selection (each lock has a different key)
- ▶ “Uniform locking” variant always has the same key
- ▶ Version with door handle or as two-way lock
- ▶ Covered fastening screws
- ▶ Differing gap measurements for doors <400 mm with modular dimensions up to 45 mm and < 600 mm for modular dimensions of 50 mm (see assembly instructions **3 842 554 184**)
- ▶ Without profile finishing

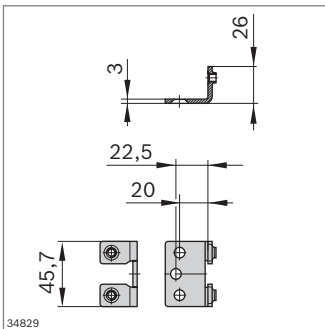
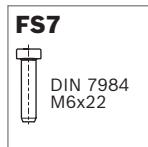
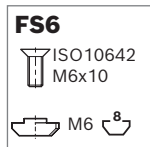
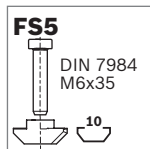
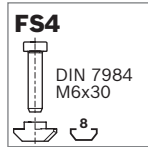
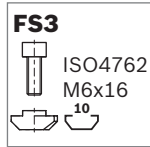
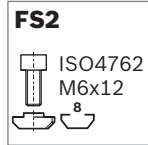
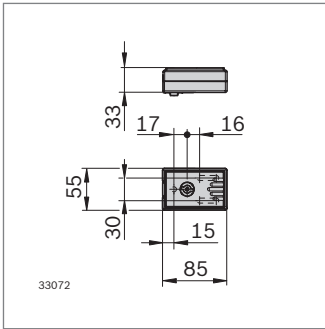
Accessories, optional:

Adapter plate for connecting to a 22.5x45 frame profile or a WG40 or WG30 woven wire grille profile (p. 10-28)

Door lock “Multi Use” for swing and sliding doors	No.	FS
<b>Standard locking</b>	<b>3 842 548 971</b>	3xFS1, FS2, FS3, 2xFS4, 2xFS5
<b>Uniform locking</b>	<b>3 842 548 970</b>	3xFS1, FS2, FS3, 2xFS4, 2xFS5

Material: Housing: Diecast zinc  
 Door handle: PA6; black  
 Cover: PP; signal gray RAL 7004  
 Fastening material: Steel; zinc-plated

Scope of delivery: Incl. 3 keys, Fastening material (FS)



Door lock "Multi Use" for swing and sliding doors	No.	FS
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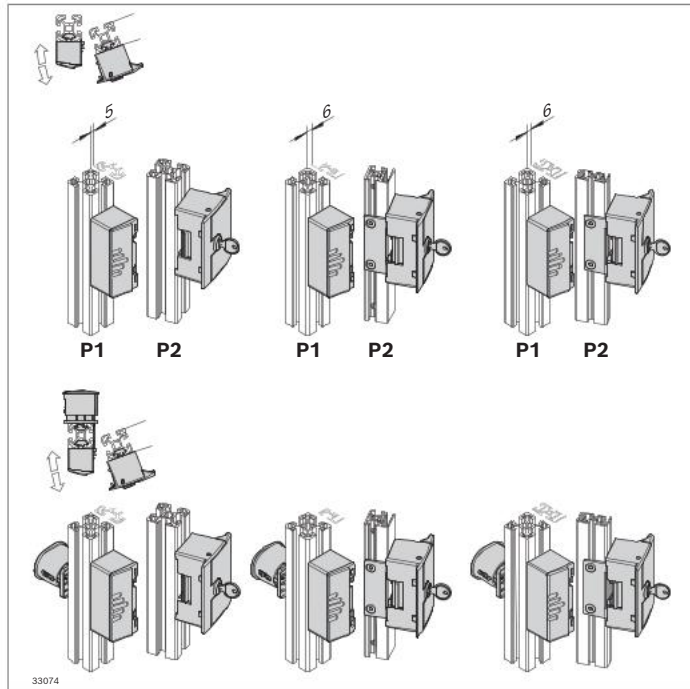
<b>Two-way lock</b>	<b>3 842 548 965</b>	3xFS1, FS2, FS3, 2xFS4, 2xFS5
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Material: Housing: Diecast zinc  
Cover: PP; signal gray RAL 7004 Fastening material: Steel; zinc-plated  
Scope of delivery: Incl. 1x two-way key, fastening material

Adapter plate Multi Use EcoSafe PG	ESD No.	FS
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	<b>3 842 567 961</b>	2xFS6 2xFS7
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Material: Steel; zinc-plated  
Scope of delivery: Incl. Fastening material



### Door lock “Compact” for swing doors

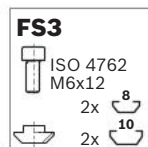
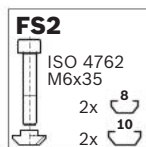
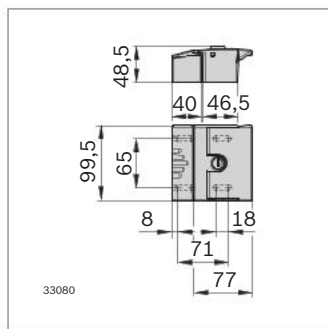


- ▶ Opening to the right and left
- ▶ For numerous profile combinations
- ▶ “Standard locking” variant with random key selection (each lock has a different key)
- ▶ “Uniform locking” variant always has the same key
- ▶ Covered fastening screws
- ▶ Installation of an emergency opening mechanism for unlocking from inside in emergency possible (Gap measurements according to assembly instructions **3 842 554 192**)
- ▶ Without profile finishing

Accessories, optional:

- ▶ Adapter plate for connecting to a 22.5x45 frame profile or a WG40 or WG30 woven wire grille profile (p. 10-28)
- ▶ Emergency opening mechanism (p. 8-19)

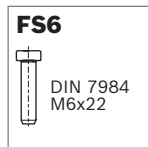
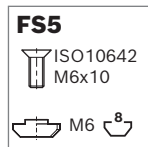
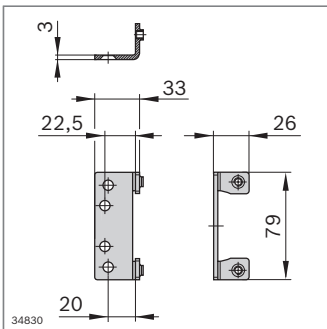
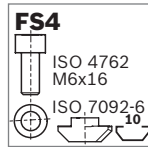
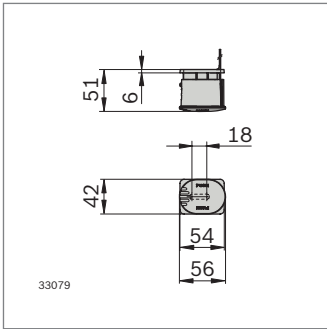
P1	P2	P2	P2	P2	P2	P2
30	22.5x45	WG30/40	30	-	-	-
40	22.5x45	WG30/40	30	40	-	-
45	22.5x45	WG30/40	30	40	45	-
50	22.5x45	WG30/40	30	40	45	50
60	22.5x45	WG30/40	-	40	45	50



Door lock “Compact” for swing doors	No.	FS
<b>Standard locking</b>	<b>3 842 553 640</b>	4xFS1, 2xFS2, 2xFS3
<b>Uniform locking</b>	<b>3 842 553 639</b>	4xFS1, 2xFS2, 2xFS3

Material: Housing: Diecast aluminum  
Cover: PP; signal gray RAL 7004 Fastening material: Steel; zinc-plated

Scope of delivery: Incl. 2 keys, Fastening material



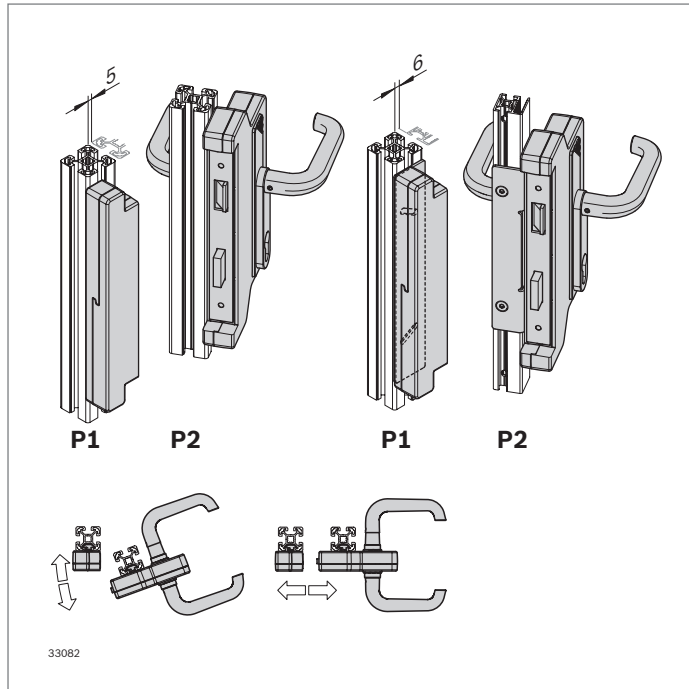
- For emergency opening of the door lock “compact” from the inside in its locked state

Emergency unlocking	No.	FS
<b>Compact</b>	<b>3 842 554 134</b>	FS4

Material: Tab: Steel; zinc-plated  
 Pushbutton: PA6; red RAL 3020  
 Fastener: PA6; RAL 7004  
 Fastening material: Steel; zinc-plated  
 Scope of delivery: Incl. Fastening material

Adapter plate Compact EcoSafe PG	ESD No.	FS
	<b>3 842 567 962</b>	2xFS5, 2xFS6

Material: Steel; zinc-plated  
 Scope of delivery: Incl. Fastening material



### Chamber lock for swing and sliding doors

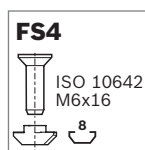
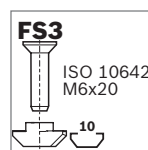
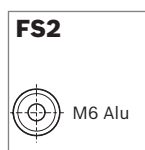
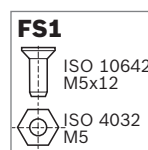
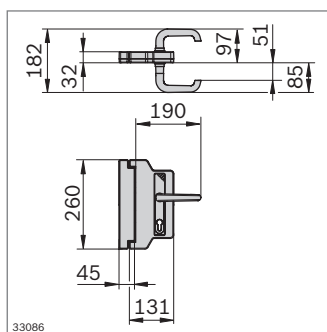


- ▶ Opening to the right and left
- ▶ For numerous profile combinations
- ▶ For installation of a standard lock cylinder (not included in the scope of delivery)
- ▶ Version with door handle, can be opened from inside and outside
- ▶ Without profile finishing
- ▶ Covered fastening screws

Accessories, optional:

- ▶ Adapter plate for connecting to a 22.5x45 frame profile or a WG40 or WG30 woven wire grille profile (p. 10-28)
- ▶ Lock cylinder (p. 8-21)

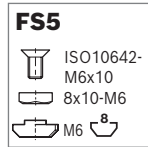
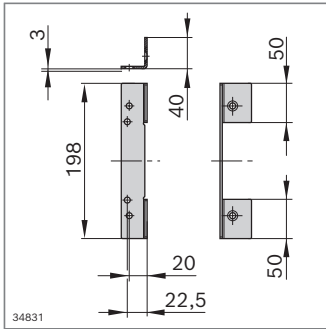
P1	P2	P2	P2	P2	P2	P2
30	22.5x45	WG30/40	30	-	-	-
40	22.5x45	WG30/40	30	40	-	-
45	22.5x45	WG30/40	30	40	45	-
50	22.5x45	WG30/40	30	40	45	50
60	22.5x45	WG30/40	30	40	45	50



Chamber lock	No.	FS
Sliding door	<b>3 842 554 151</b>	4xFS1, 4xFS2, 4xFS3, 2xFS4
Swing door	<b>3 842 554 150</b>	4xFS1, 4xFS2, 4xFS3, 2xFS4

Material: Housing: PA6 signal gray (RAL7004)  
 Door handle: Aluminum; anodized  
 Fastening material: Steel; zinc-plated  
 Washer: Aluminum

Scope of delivery: Incl. Fastening material

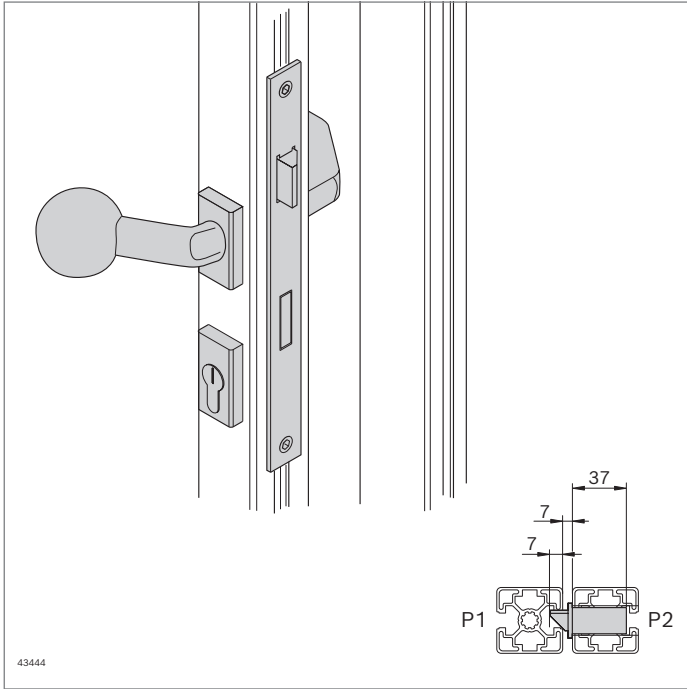


Adapter plate Box Lock EcoSafe PG	ESD No.	FS
	3 842 567 963	2xFS5

Material: Steel; zinc-plated  
Scope of delivery: Incl. fastening material



- Conventional lock cylinder 27.5/27.5 (not included in the scope of delivery)



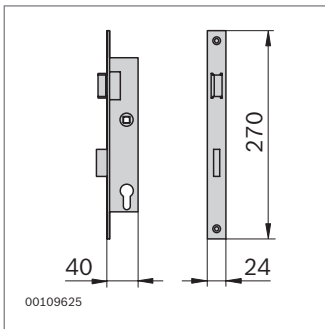
## Mortise lock for swing doors



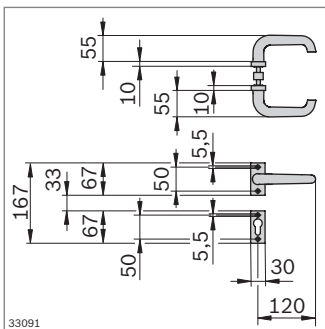
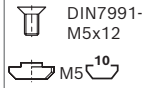
- ▶ For installation in 45x45 profiles or larger
- ▶ For installation of a standard lock cylinder (not included in the scope of delivery)
- ▶ Robust design for high loads
- ▶ Door handle in the variants: Handle/handle, Handle/knob
- ▶ Milled profile finishing

### Accessories:

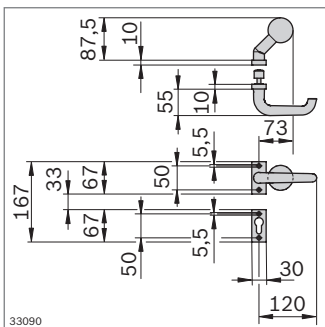
- ▶ Handle/handle
- ▶ Handle/knob
- ▶ Lock cylinder (p. 8-23)



### FS1



### FS2



### FS3



Mortise lock	Slot	No.	FS
	10	<b>3 842 538 241</b>	2xFS1

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

Scope of delivery: Incl. Fastening material

Handle/handle	No.	FS
	<b>3 842 553 631</b>	8x FS2

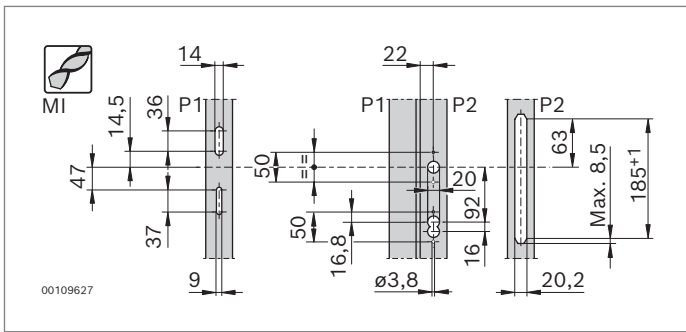
Material: Aluminum; anodized  
Fastening material: Steel; zinc-plated

Scope of delivery: Incl. Fastening material

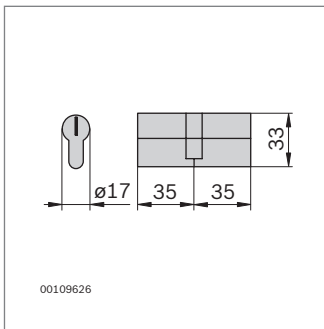
Handle/knob	No.	FS
	<b>3 842 553 630</b>	8x FS3

Material: Aluminum; anodized  
Fastening material: Steel; zinc-plated

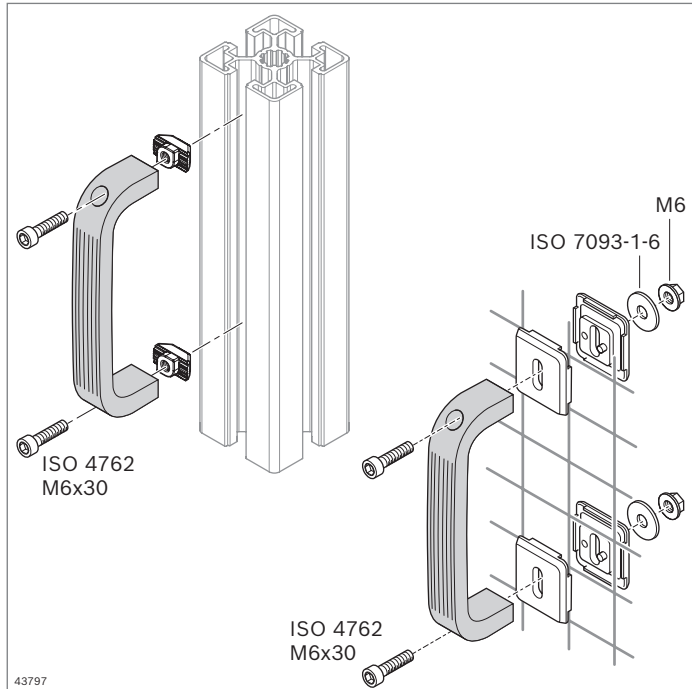
Scope of delivery: Incl. Fastening material



- ▶ Dimensional drawing of the profile finishing for mortise lock
- ▶ Machining type “MI” (long milling)



- ▶ Conventional lock cylinder 35/35 (not included in the scope of delivery)



## Bow-type handle



### Bow-type handle

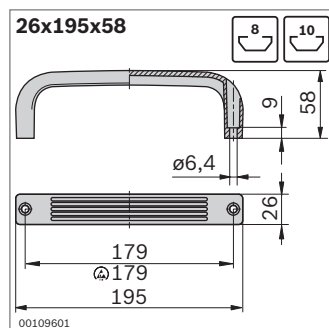
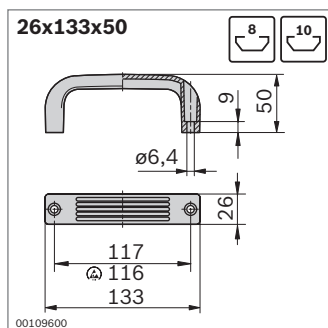
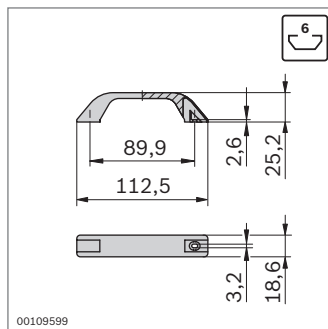
- ▶ Robust construction equipped to withstand strong forces
- ▶ Fastening in the profile slot or on a woven wire grille with the clamping element
- ▶ Suitable for use in ESD-protected environments

#### Required accessories:

- ▶ For bow-type handle N6:
  - Sliding block 6 M3 (p. 3-7)
  - Cylinder head screw M3x8 ISO 4762
- ▶ For bow-type handle N8:
  - T-nut 8 M6 (p. 3-4)
  - Cylinder head screw M6x16 ISO 4762
- ▶ For bow-type handle N10:
  - T-nut 10 M6 (p. 3-4)
  - Cylinder head screw M6x30 ISO 4762

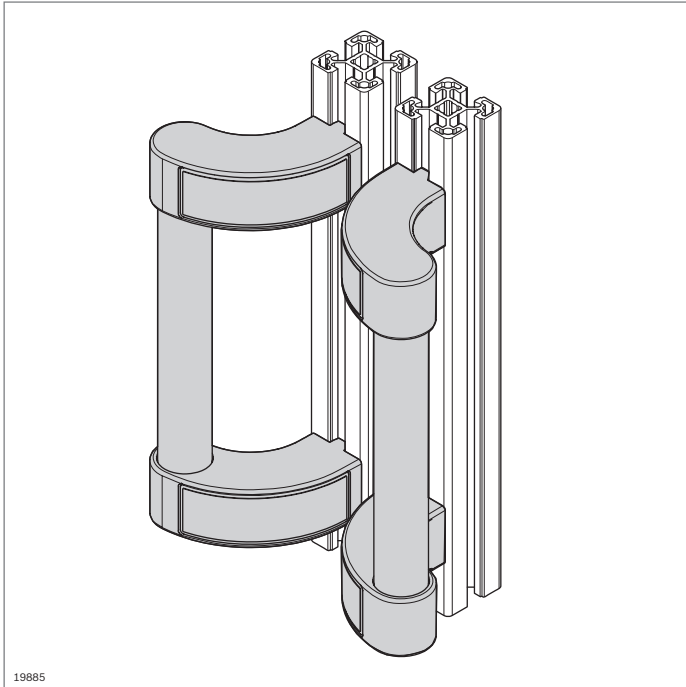
#### Accessories, optional:

- ▶ Clamping element for mounting on woven wire grille (p. 10-43)
- ▶ T-nut (p. 3-4)



Bow-type handle	Color	ESD	No.
	Signal gray RAL 7004	10	<b>3 842 554 716</b>
Material:		PA	

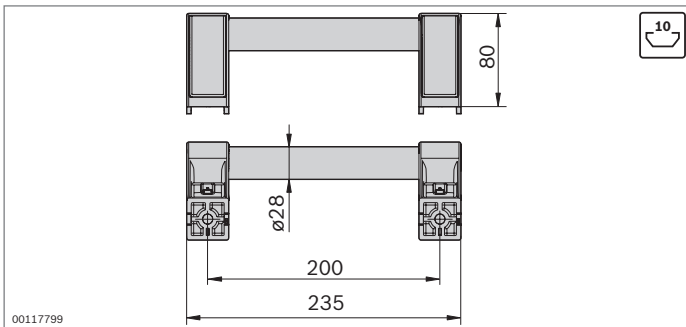
Bow-type handle	Color	ESD	No.
<b>26x133x50</b>	Signal gray RAL 7004	10	<b>3 842 554 718</b>
	Black	10	<b>3 842 525 481</b>
<b>26x195x58</b>	Signal gray RAL 7004	10	<b>3 842 554 720</b>
	Black	10	<b>3 842 525 767</b>
Material:		PA	



## Safety handle



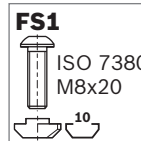
- ▶ Prevents injuries caused by catching of body parts when closing sliding doors
- ▶ Suitable for sliding or swing doors
- ▶ The length of the handle can be varied by changing the tube D28

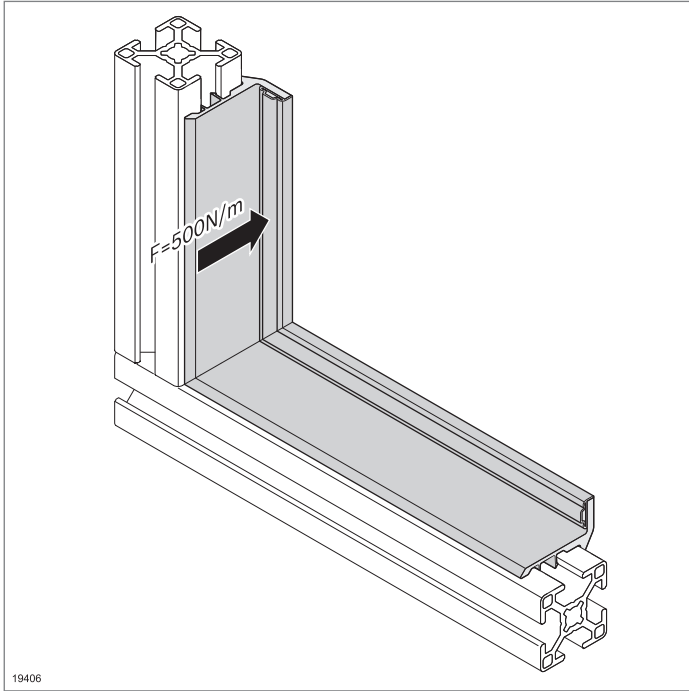


Safety handle	No.	FS
	<b>3 842 555 564</b>	2xFS1

Material: Round tube D28: Aluminum; anodized  
Holder: PA; signal gray RAL 7004

Scope of delivery: Incl. fastening material (FS)

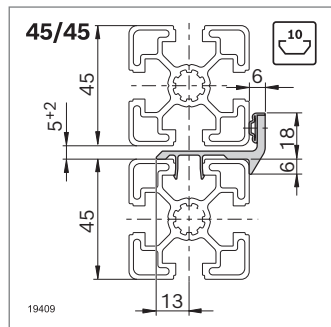
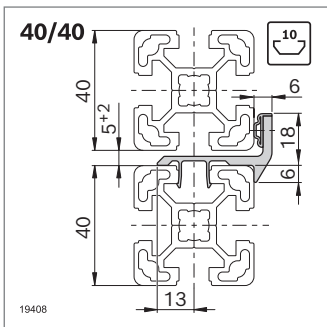
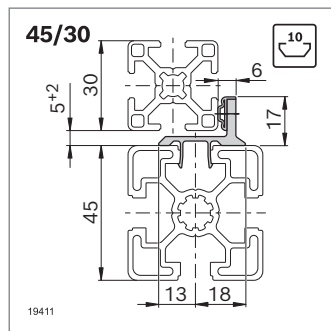
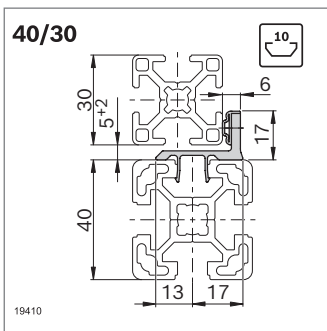
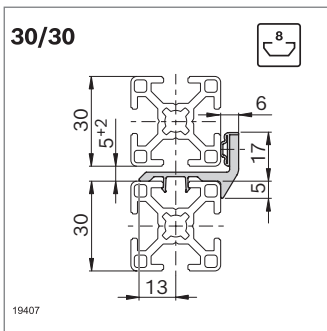




### Sealing strip



- ▶ For sealing doors (width > 500 mm) with an elastic lip seal
- ▶ Can be clipped into the slot
- ▶ Non-transparent elastic lip seal covers the door gap
- ▶ Stop for swing doors (impact force: 500 N/m)



Sealing strip	L (mm)	No.
<b>30/30</b>	3000 10	<b>3 842 555 554</b>

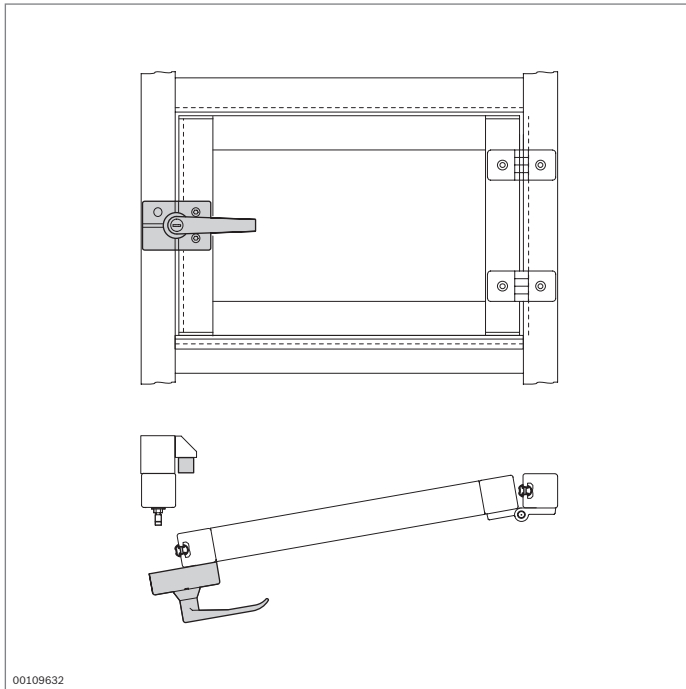
Material: PVC/NBR; signal gray RAL 7004

Sealing strip	L (mm)	No.
<b>40/30</b>	3000 10	<b>3 842 555 562</b>
<b>45/30</b>	3000 10	<b>3 842 555 560</b>

Material: PVC/NBR; signal gray RAL 7004

Sealing strip	L (mm)	No.
<b>40/40</b>	3000 10	<b>3 842 555 558</b>
<b>45/45</b>	3000 10	<b>3 842 555 556</b>

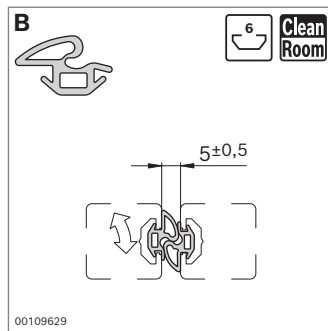
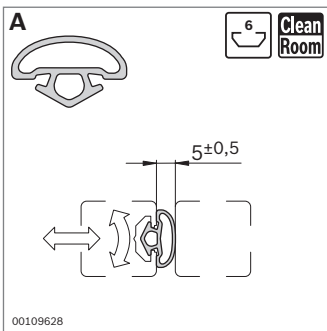
Material: PVC/NBR; signal gray RAL 7004



### Sealing profile



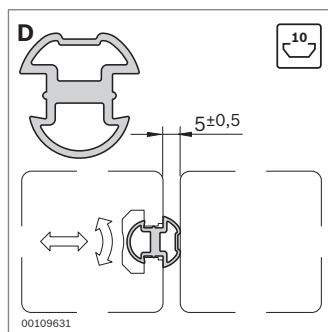
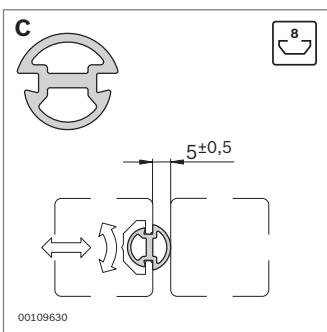
- ▶ For sliding and swing doors
- ▶ Prevents particles from entering or escaping



- ▶ Suitable for use in cleanroom environments
- ▶ Two-piece seal (B) also performs a stop function.
- ▶ Tested for emission of volatile organic substances at room temperature.  
Report No. BO2112-1289

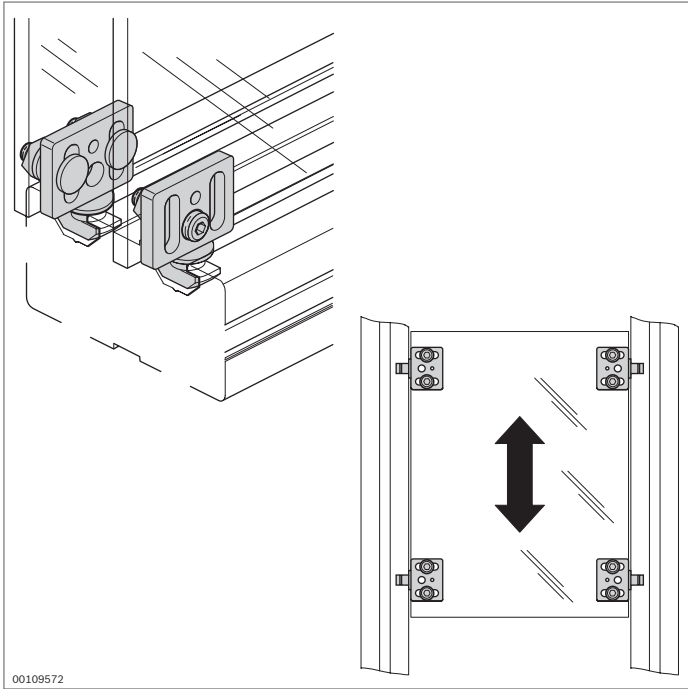
Sealing profile	Slot	L (mm)	No.
<b>A</b>	6	10000	<b>3 842 554 728</b>
<b>B</b>	6	10000	<b>3 842 554 730</b>

Material: TPE; signal gray RAL 7004, hardness: 64° ±5 Shore A



Sealing profile	Slot	L (mm)	No.
<b>C</b>	8	10000	<b>3 842 516 598</b>
<b>D</b>	10	10000	<b>3 842 518 492</b>

Material: NBR; black, hardness 60° Shore A

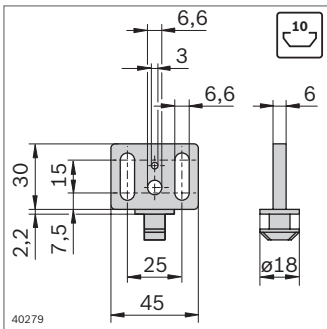


00109572

## Slider



- ▶ For constructing inexpensive sliding and lifting doors
- ▶ Good functional reliability



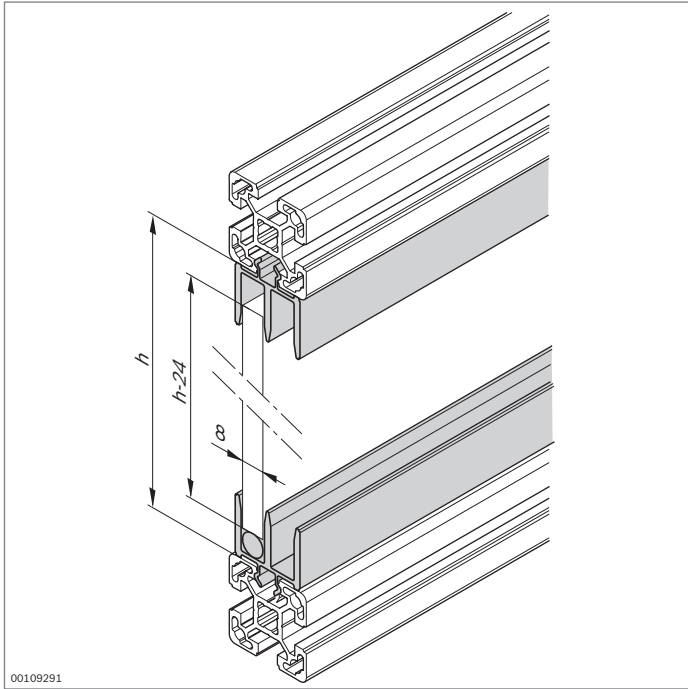
40279

### Slider

 No.

10 **3 842 564 170**

Material: POM; signal gray RAL 7004



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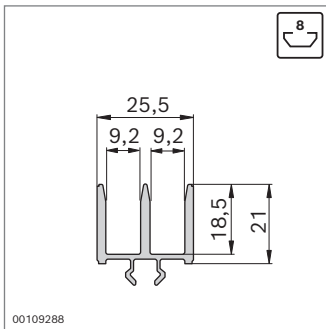
### Sliding door profile PVC clip-in



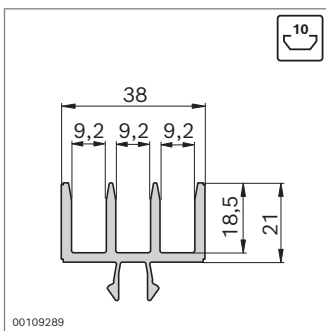
- ▶ Can be clipped into the supporting frame made of strut profiles
- ▶ Round bar to minimize the displacement force required
- ▶ For panel elements of a thickness of 8 mm
- ▶ Insertion of the panel element into closed frame

Accessories, optional:

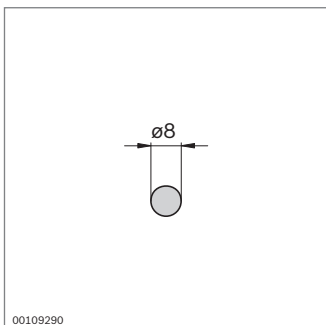
- ▶ Edge protector (p. 8-33)
- ▶ Door handle profile (p. 8-33)
- ▶ Bow-type handle (p. 8-24)



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Sliding door profile PVC clip-in	Slot	L (mm)	No.
	8	2000	10 <b>3 842 555 262</b>

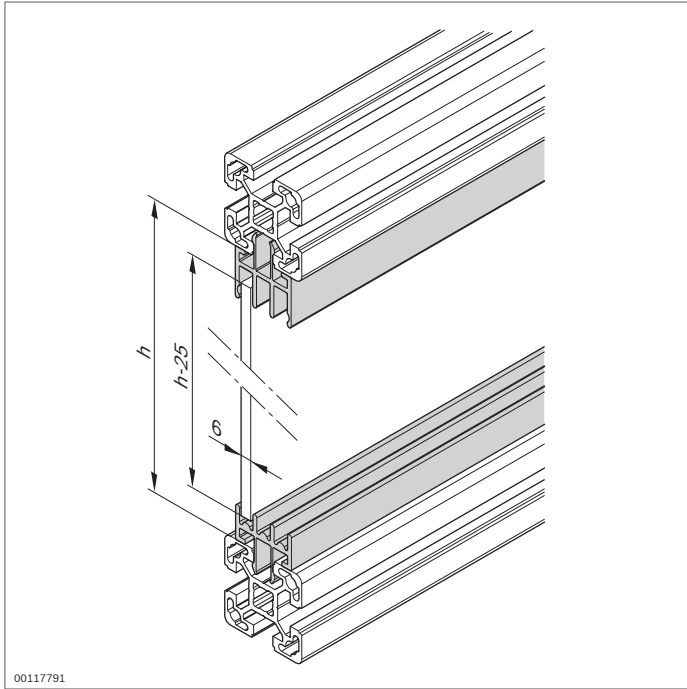
Material: PVC; signal gray RAL 7004

Sliding door profile PVC clip-in	Slot	L (mm)	No.
	10	2000	10 <b>3 842 555 260</b>

Material: PVC; signal gray RAL 7004

Round bar	L (mm)	No.
	2000	10 <b>3 842 516 694</b>

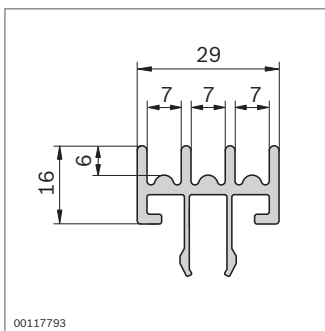
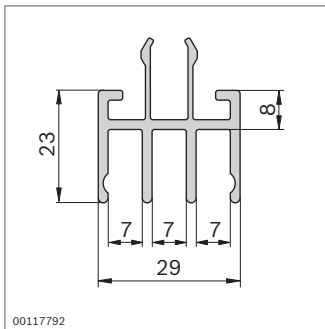
Material: POM; black



### Sliding door profile Al clip-in



- ▶ Can be clipped into the supporting frame made of strut profiles
- ▶ Sliding door profile, bottom, with half-round floor contour to minimize the displacement force required
- ▶ For panel elements with a thickness of 5 or 6 mm
- ▶ Insertion of the panel element into closed frame

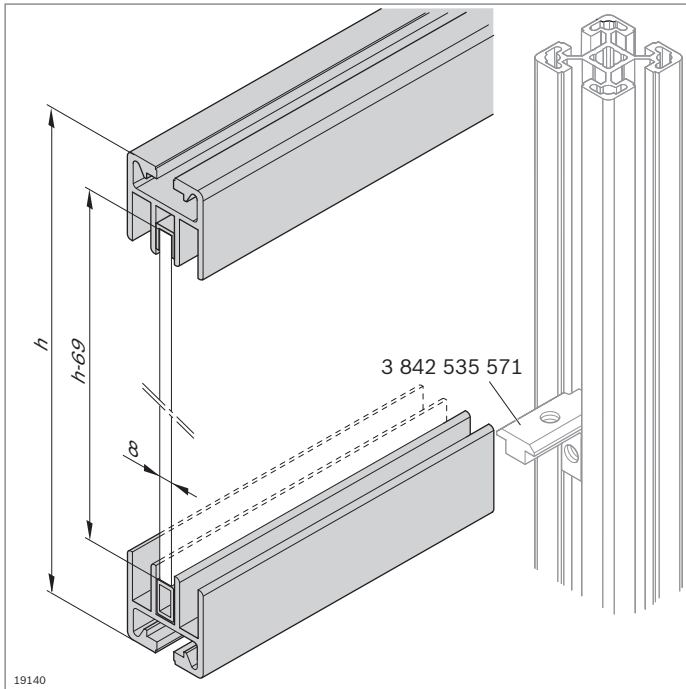


Sliding door profile, top		L (mm)	No.
1 pc		40 ... 3000	<b>3 842 993 425 / L</b>
10 pcs		3000	<b>3 842 536 531</b>

Material: Aluminum; anodized

Sliding door profile, bottom		L (mm)	No.
1 pc		40 ... 3000	<b>3 842 993 426 / L</b>
10 pcs		3000	<b>3 842 536 532</b>

Material: Aluminum; anodized



## Sliding door profile AI 45 Cover cap, end piece

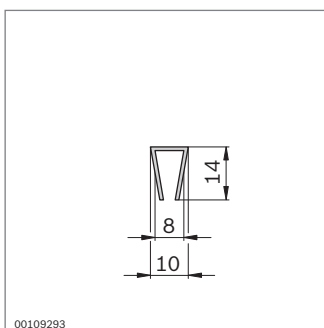
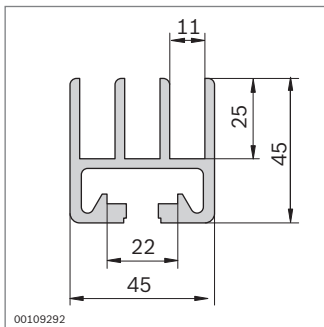


### Sliding door profile AI 45

- ▶ Aluminum profile as a supporting construction element
- ▶ Installation using inner brackets between two vertical struts
- ▶ Glide profile to edge the upper part of the sliding door
- ▶ Insertion profile acts as a slide surface
- ▶ For panel elements of a thickness of 8 mm
- ▶ Insertion of the panel element into closed frame

#### Accessories:

- ▶ Cover cap (p. 8-32)
- ▶ End piece (p. 8-32)
- ▶ Inner bracket (p. 3-15), inner bracket R (p. 3-16)

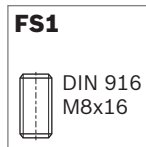
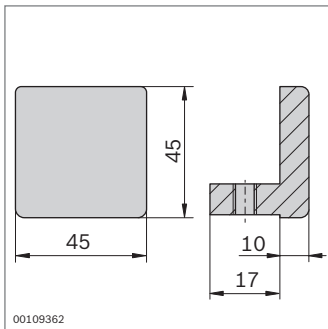
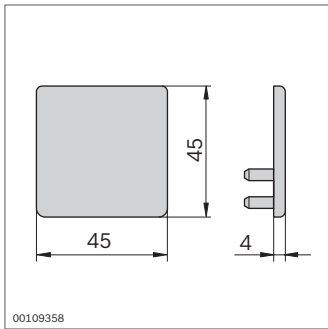
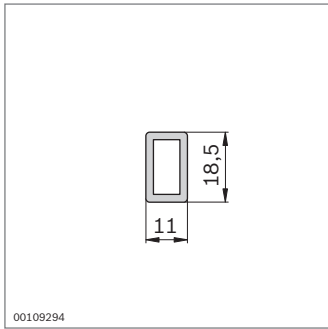


Sliding door profile	L (mm)	No.
1 pc	100 ... 6070	<b>3 842 990 115 / L</b>
1 pc F1  F1	100 ... 6000	<b>3 842 990 116 / L</b>
1 pc	6070	<b>3 842 558 305</b>
20 pcs	6070	<b>3 842 557 943</b>

Material: Aluminum; anodized

Glide profile	L (mm)	No.
	3000 10	<b>3 842 554 724</b>

Material: Hard PVC; signal gray RAL 7004



Insertion profile	L (mm)	ESD	No.
	3000 10		<b>3 842 554 726</b>

Material: PA; signal gray RAL 7004

### Cover cap

- ▶ As a design element and to prevent injuries

Cover cap	Color	ESD	No.
	Signal gray	20	<b>3 842 551 662</b>

Material: PP; signal gray RAL 7004

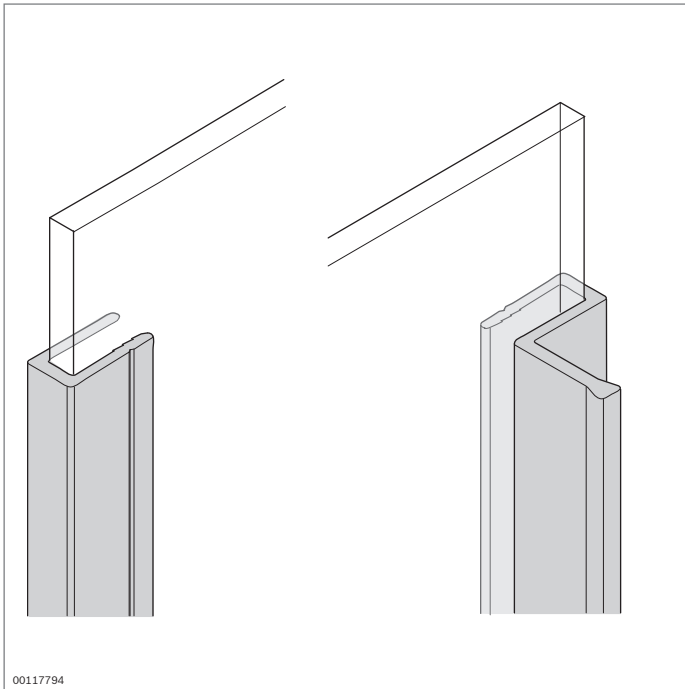
### End piece

- ▶ For use as a stop for sliding elements
- ▶ Clamping with setscrew in the profile slot

End piece	ESD	No.	FS
	20	<b>3 842 191 194</b>	FS1

Material: Diecast aluminum

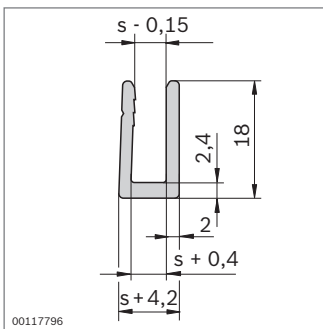
Scope of delivery: Incl. fastening material (FS)



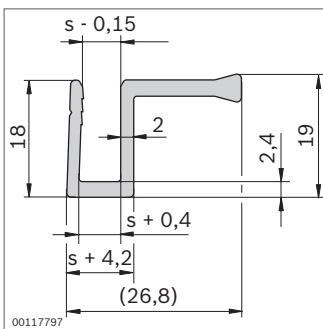
00117794

## Edge protector Door handle profile

- For reinforcing frameless panel elements on sliding doors
- Profile for  $s = 6$  mm can also be used for 1/4 inch plates



00117796



00117797

Edge protector	s (mm)	L (mm)	No.
1 pc	5	40 ... 3000	<b>3 842 993 429 / L</b>
10 pcs	5	3000	<b>3 842 536 537</b>
1 pc	6	40 ... 3000	<b>3 842 993 430 / L</b>
10 pcs	6	3000	<b>3 842 536 540</b>

Material: Aluminum; anodized

Door handle profile	s (mm)	L (mm)	No.
1 pc	5	40 ... 3000	<b>3 842 993 427 / L</b>
10 pcs	5	3000	<b>3 842 536 533</b>
1 pc	6	40 ... 3000	<b>3 842 993 428 / L</b>
10 pcs	6	3000	<b>3 842 536 536</b>

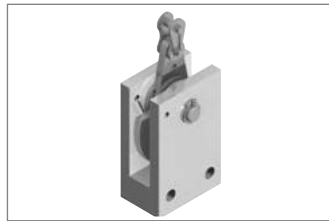
Material: Aluminum; anodized



# Accessories for protective equipment



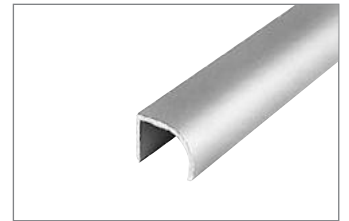
Counterbalance  
(p. 9-2)



Safety catch (p. 9-4)



Bumper (p. 9-5)



Handle bar (p. 9-5)



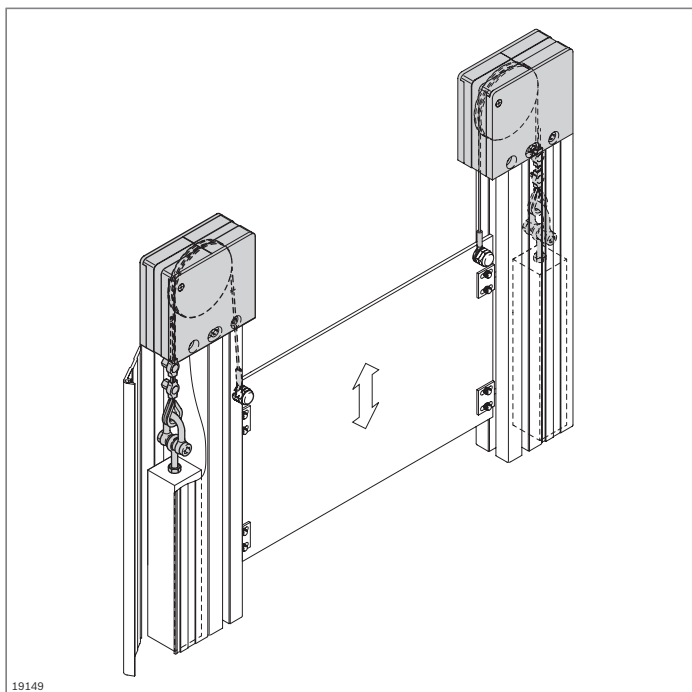
Magnet catch (p. 9-6)



Double ball stop latch  
(p. 9-7)



Ball catch (p. 9-8)



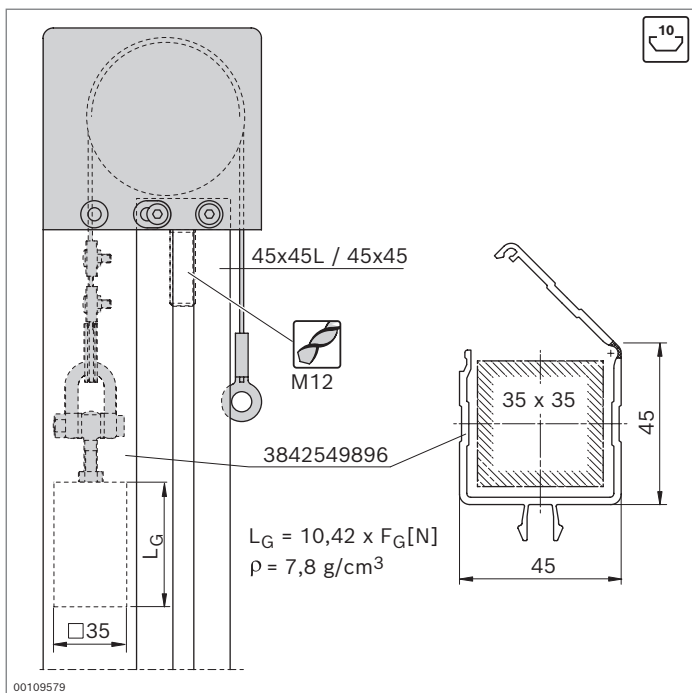
## Counterbalance



- ▶ For lifting doors comprising a deflection pulley and control cable
- ▶ Counterweight individually adjustable and preferably guided in a cable duct
- ▶ Length of cable can be adjusted
- ▶ Service life: 50000 actuations
- ▶ Profile finishing:
  - M12 for fastening the deflection pulley
- ▶ Fit lifting doors with a back-up fall arrestor in accordance with the Machinery Directive 2006/42/EC

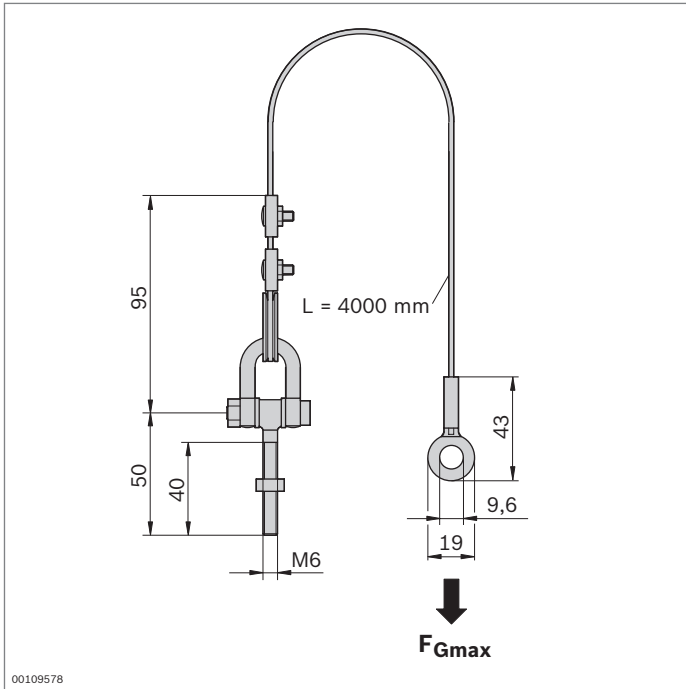
Required accessories:

Counterbalance weight (square profile 35x35 mm)



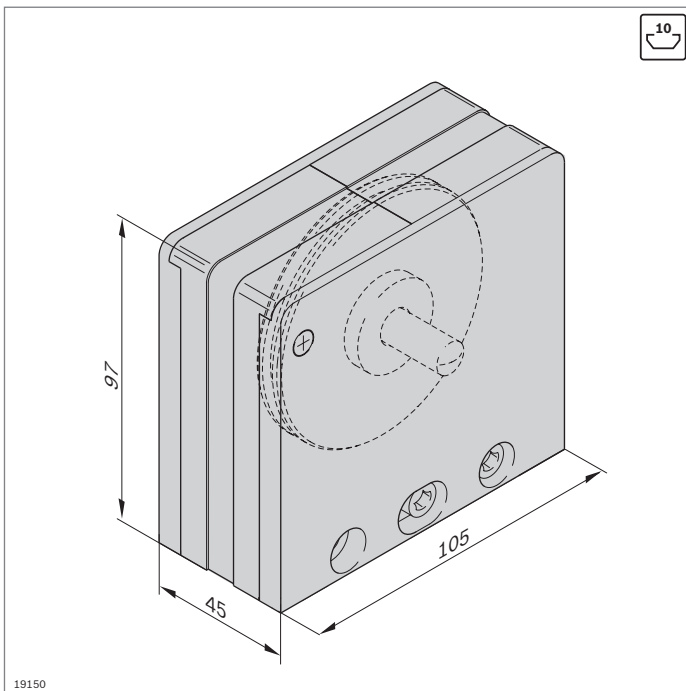
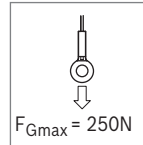
Accessories, optional:

- ▶ Cable duct 45x45 (p. 11-2)
- ▶ Slider (p. 12-3/8-28)
- ▶ Safety catch (p. 9-4)



Counterbalance control cable	No.
	<b>3 842 518 798</b>

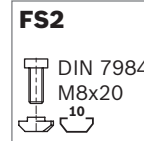
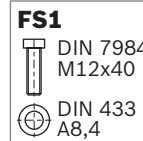
Material: Steel; stainless

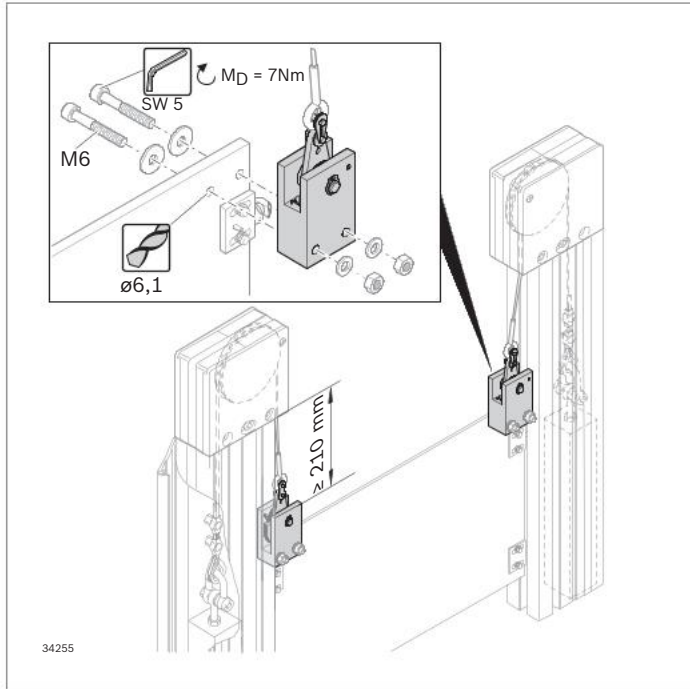


Counterbalance deflection pulley	No.	FS
	<b>3 842 555 566</b>	FS1, FS2

Material: Housing: PA; signal gray (RAL 7004)  
Fastening material: Steel; zinc-plated

Scope of delivery: Incl. fastening material (FS)





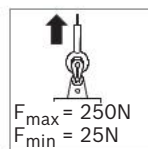
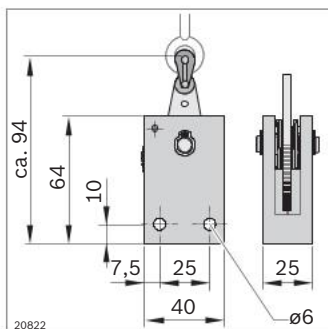
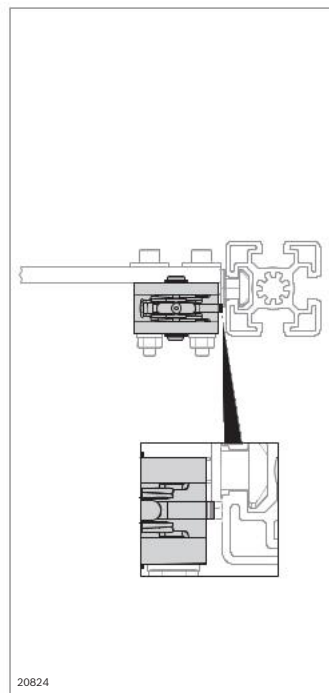
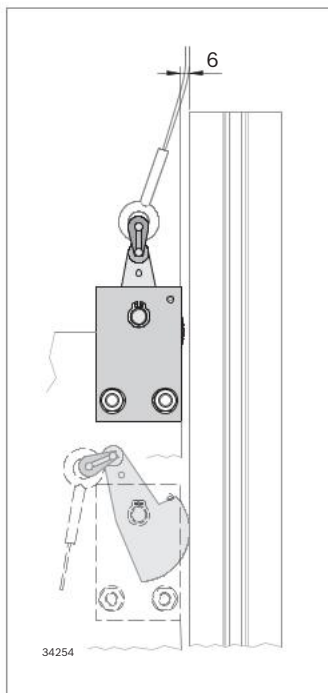
## Safety catch



- ▶ The safety catch in conjunction with the other components prevents a lifting door from falling if a cable breaks
- ▶ If a cable breaks, the revolving part of the safety catch jams against a counterbearing and is wedged in position in the guide profile
- ▶ Gap dimension between safety catch body and lateral guide profile: 6 mm
- ▶ One safety catch is required for each cable.
- ▶ Max. load per safety catch: 250 N
- ▶ Min. load per safety catch: 25 N
- ▶ The counterbearing (e.g. slider 3 842 555 226) should be mounted under the safety catch and as close as possible to it
- ▶ It can also be mounted without a frame on panel elements which have adequate transverse rigidity
- ▶ Before installation and use please read the data sheet containing notes on use which is enclosed with the product

### Accessories, optional:

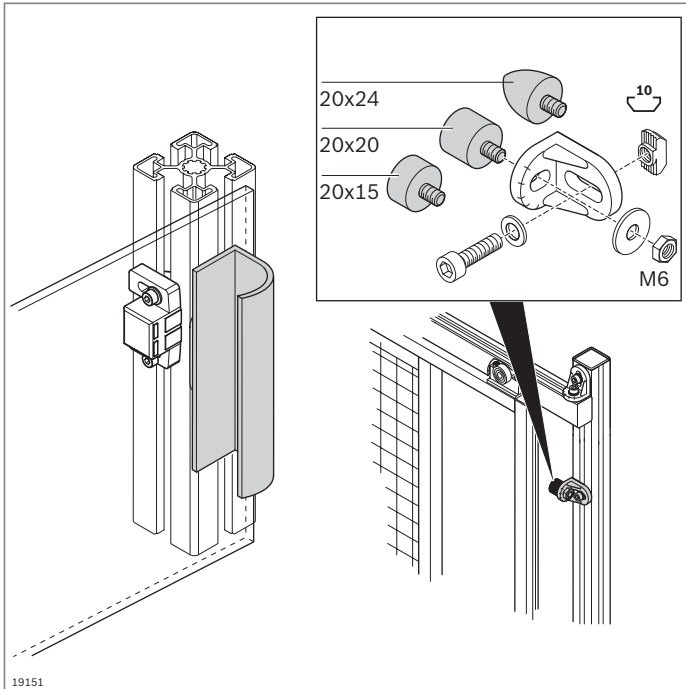
- ▶ Slider (p. 12-3/)
- ▶ Fastening material for attaching the safety catch to the lifting door
- ▶ Counterbalance (p. 9-2)
- ▶ Strut profiles (from p. 2-1)



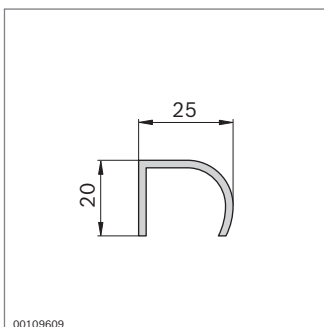
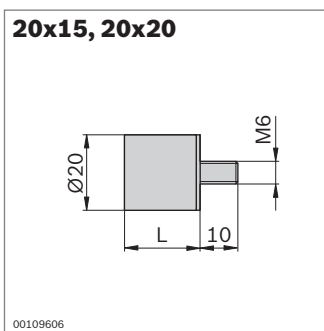
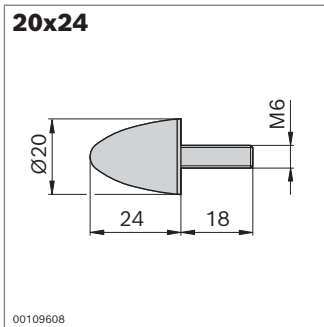
Safety catch	No.
	3 842 546 519

Material: Housing: Aluminum  
 Turntable: Steel; stainless  
 Bolt: Steel; hardened  
 Chain lock: Steel; nickel-plated  
 Spacer disk: POM

Scope of delivery: Incl. chain lock for securing the cable  
 Condition on delivery: Assembled



19151



## Bumper Handle bar

### Bumper

- For damping impact and noise on doors, flaps, and covers

Accessories:

Nut, T-nut M6 (p. 3-4)

### Handle bar

- Can be used, for example, on covers, drawers, or doors
- Machining: Drill holes for fixing

Required accessories:

Fastening material

Bumper		No.
20x24	10	3 842 510 165

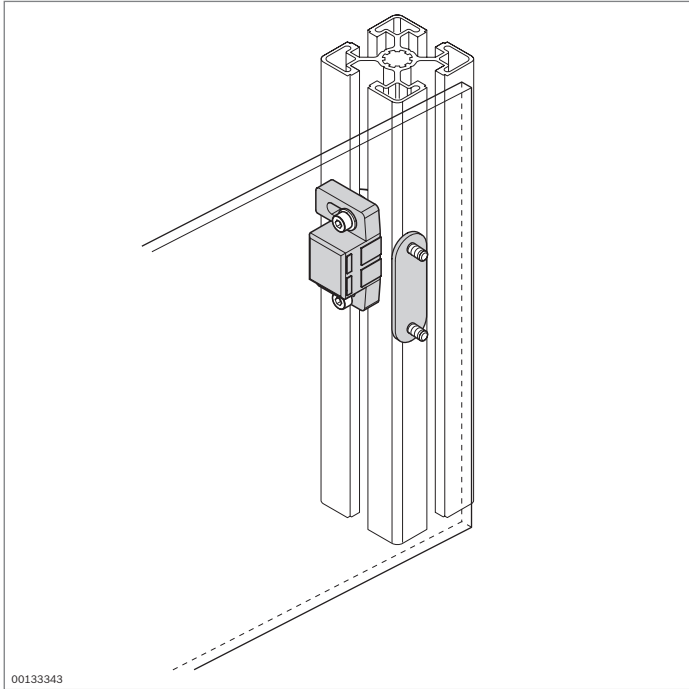
Material: NBR; hardness 55° Shore A

Bumper	L (mm)		No.
20x15	15	10	3 842 510 464
20x20	20	10	3 842 510 462

Material: NBR; hardness 55° Shore A

Handle bar	L (mm)		No.
	50 ... 3000	1	3 842 990 111 / L
	3000	10	3 842 500 287

Material: Aluminum; anodized



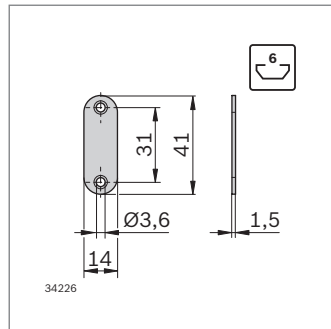
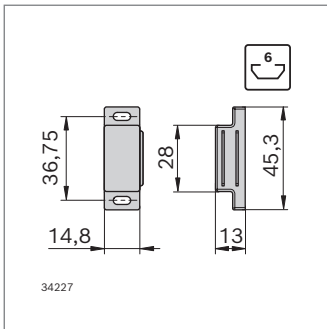
### Magnet catch



- ▶ The magnet catch prevents doors and flaps from banging or being unintentionally opened
- ▶ Elongated holes to compensate for different panel element thicknesses

Accessories:

Cylinder bolt ISO 4762, washer, T-nut (p. 3-4)

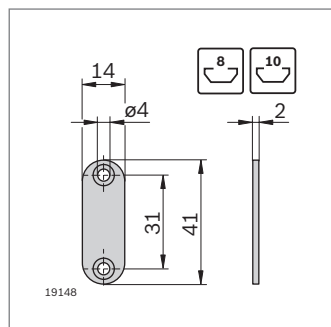
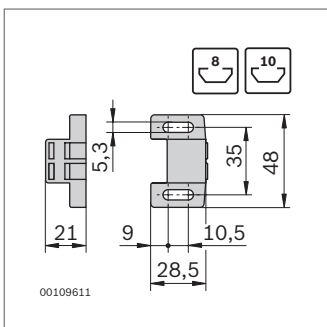
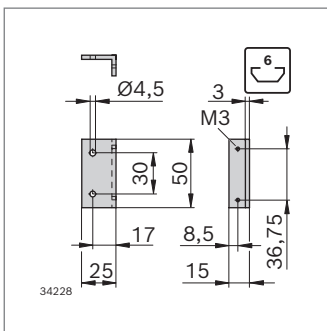
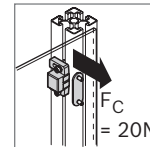


Magnet catch	Slot	No.	FS
	6	3 842 558 323	2xFS1

Material: PP; white / steel; zinc-plated

Scope of delivery: Incl. counterpiece, bracket, fastening material (FS)

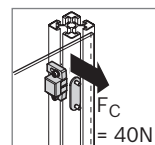
**FS1**  
 ISO 4762  
 M3x8  
 DIN  
 ISO 7089-3

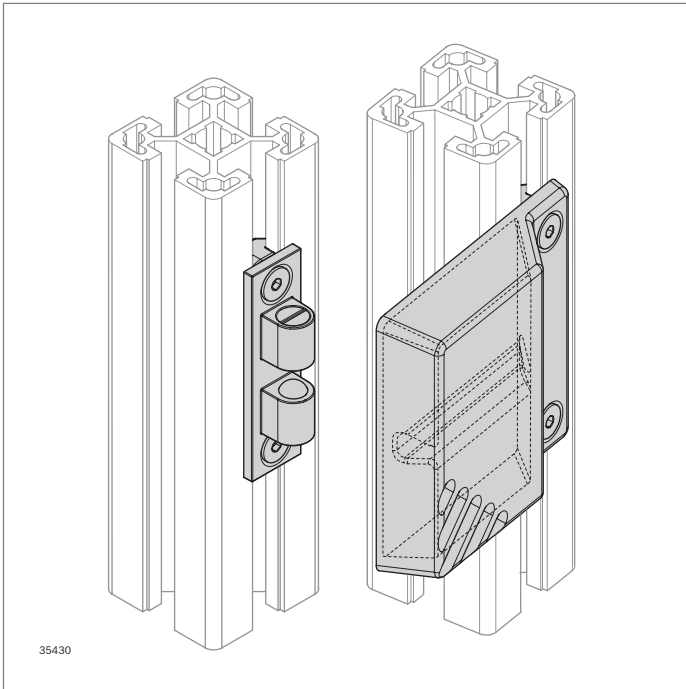


Magnet catch	Slot	No.
	8, 10	3 842 555 568

Material: PA; signal gray (RAL 7004)  
 Steel; zinc-plated

Scope of delivery: Incl. counterpiece



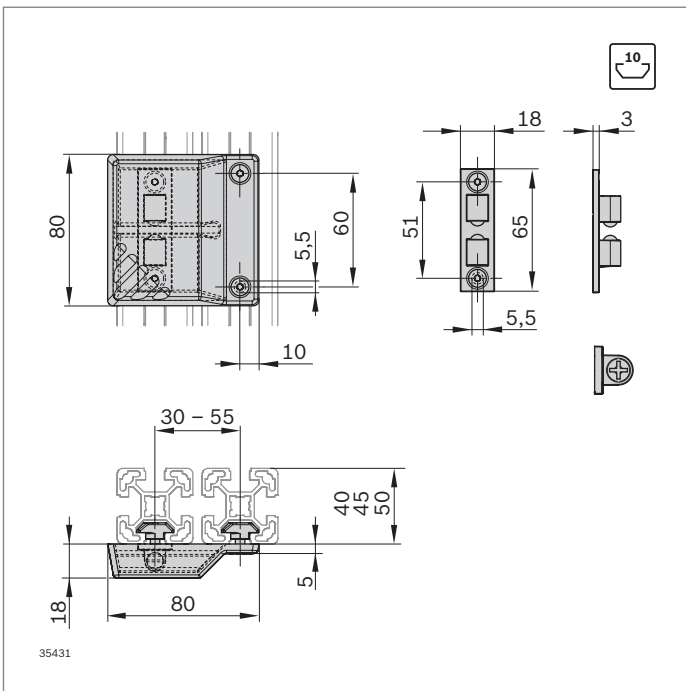


35430

## Double ball stop latch



- ▶ For arresting doors made of profile frames and for bridging door gaps
- ▶ Suitable for profiles with modular dimensions 40 mm, 45 mm, and 50 mm
- ▶ Locking also possible with varying profile spacing



35431

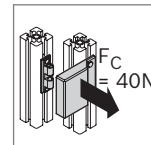
Double ball stop latch	Slot	No.	FS
	10	3 842 558 570	2xFS1

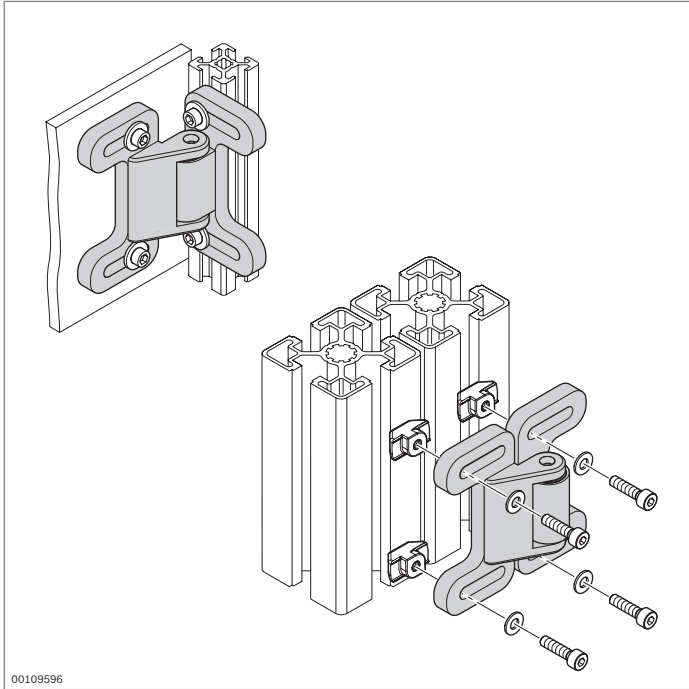
Material: Fitting; diecast zinc; painted (RAL 9006)  
 Double ball stop latch: Diecast zinc  
 Fastening material: Steel; zinc-plated

Scope of delivery: Incl. fastening material (FS)

**FS1**

	ISO 10642
	M5x16
	M5x12
	10





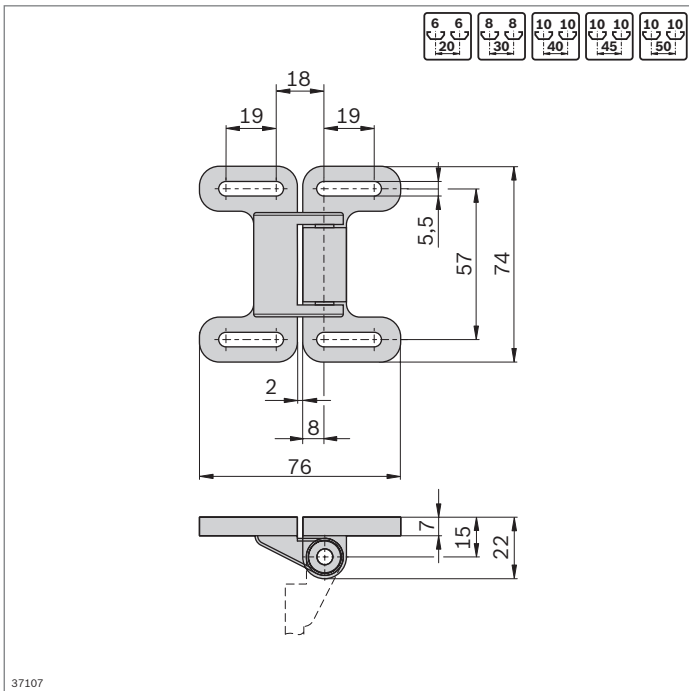
## Ball catch



- ▶ Ball catch for doors and flaps
- ▶ For sliding and swing doors
- ▶ For doors with or without frames
- ▶ Elongated hole to adjust for differing spacing
- ▶ Can be used under cleanroom conditions
- ▶ Tested for particulate emissions  
Report No. BO2112-1289

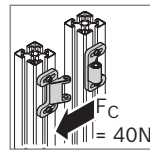
### Accessories:

- ▶ For slot 6:
  - Cylinder head screw ISO 4762 M4x12
- ▶ For slots 8 and 10:
  - Cylinder head screw ISO 4762 M5x16
- ▶ Washer M5
- ▶ T-nut (p. 3-4)



Ball catch	Color	ESD	No.
	Signal gray (RAL 7004)	10	3 842 555 570
	Black	10	3 842 524 986

Material: PA



# Protective equipment and partition walls EcoSafe



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



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



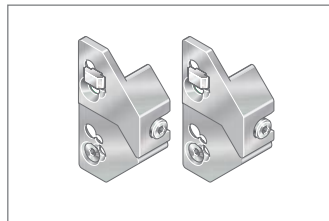
EcoSafe – leg set (p. 10-31)



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.

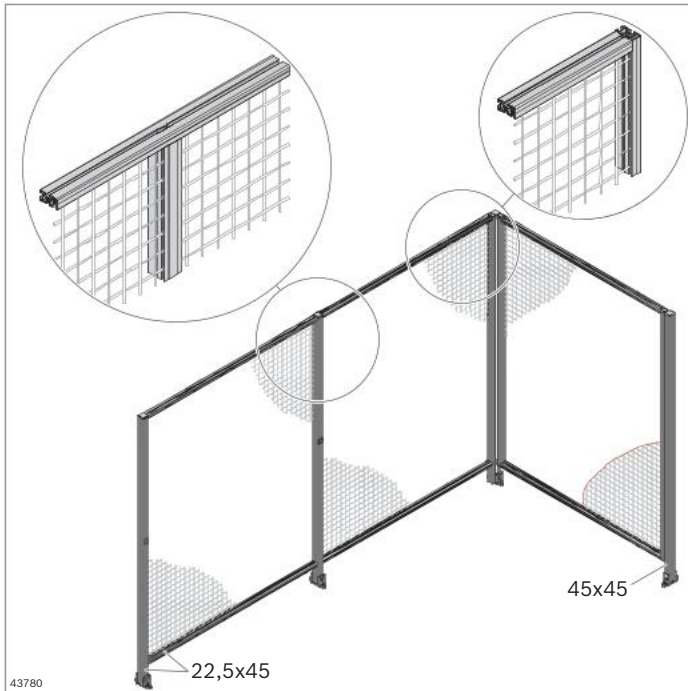
Safety fences can be found in nearly every factory. They serve as safety barriers for entire production lines or enclosures for individual machines. Regardless of their size, however, one requirement always applies:

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.

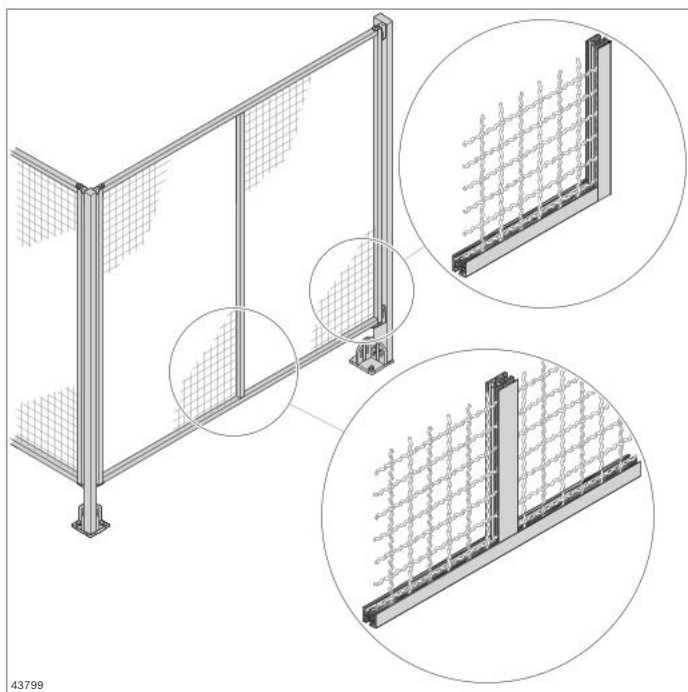
Rexroth offers two variants of safety fences, which are based on different frame profiles. Both variants are available in the same modular dimensions and are therefore compatible, however they differ visually. Some accessories can be used for both variants



### 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 ISO 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).

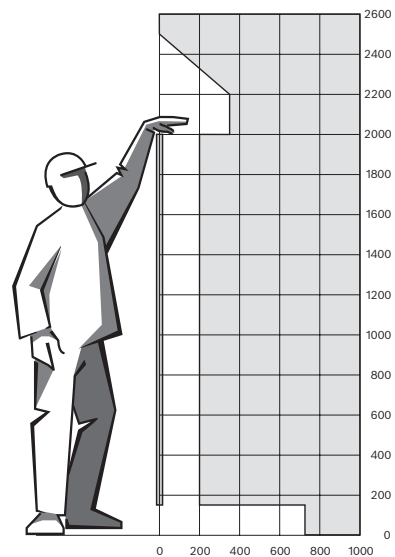
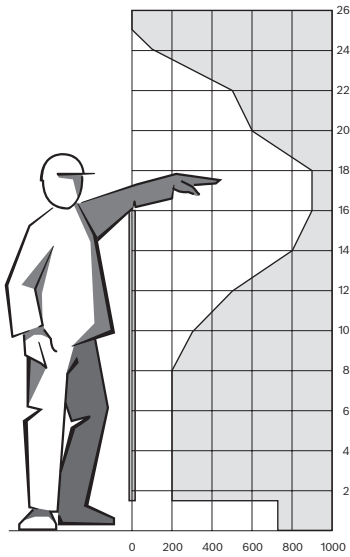
The standard fence height of the EcoSafe protective frame of 2000 mm provides adequate protection in conjunction with a relatively small safety distance. The graphics show a profile with the safety distances for two different system heights (example of only minor injuries and a low probability of occurrence).

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.

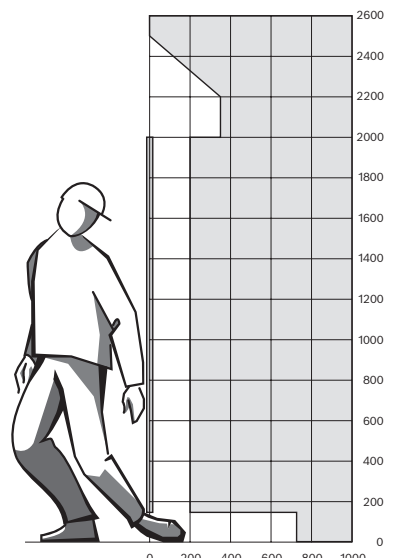
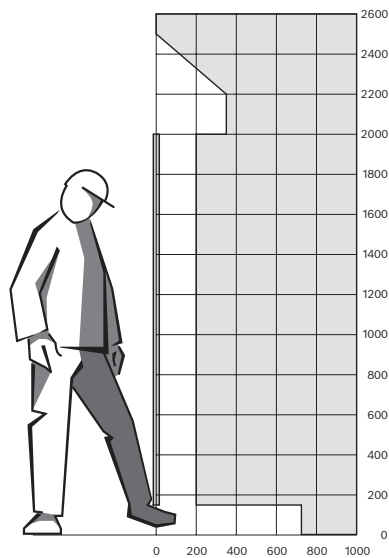
### Safety distances

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.



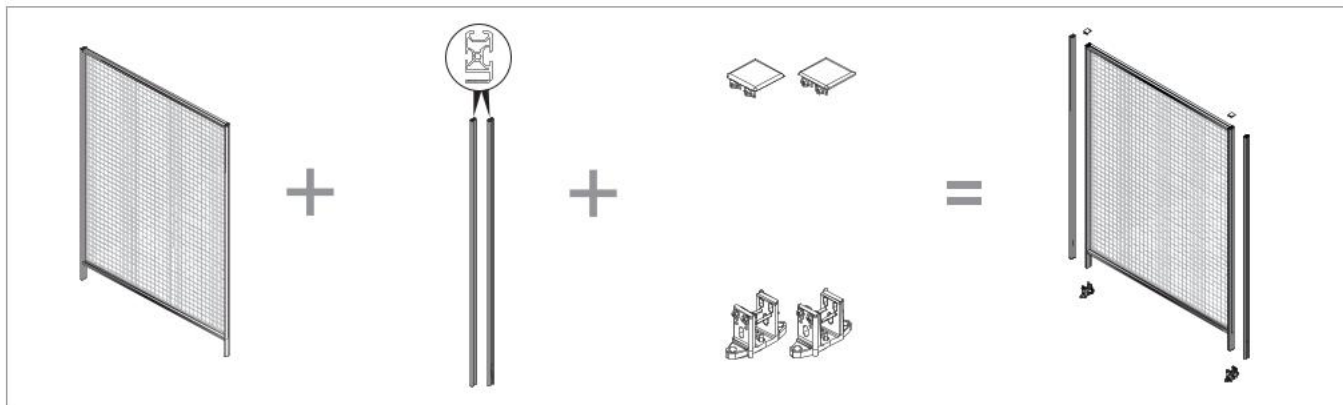
### Safety distances where there is 150 mm ground clearance

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

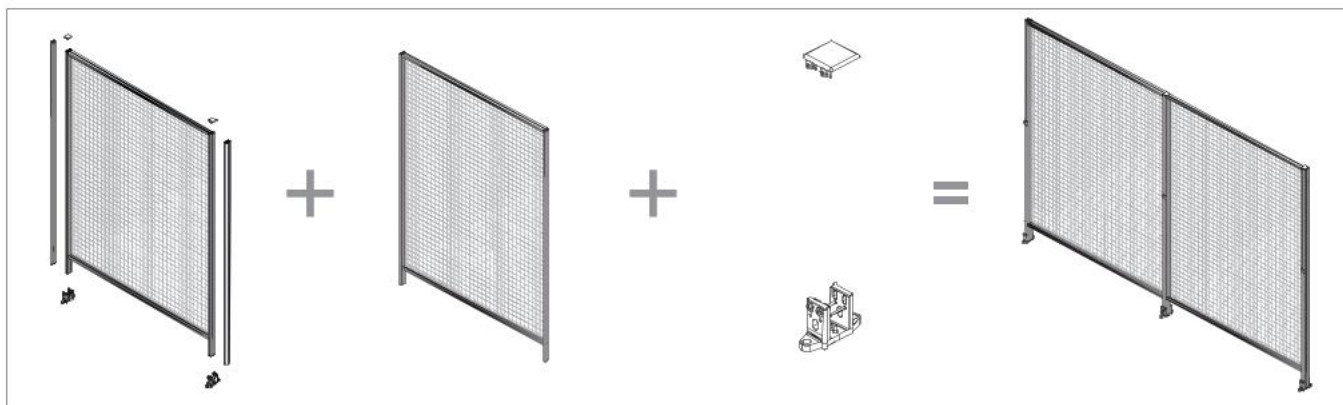


# EcoSafe protective fence components – frame profile 22.5x45

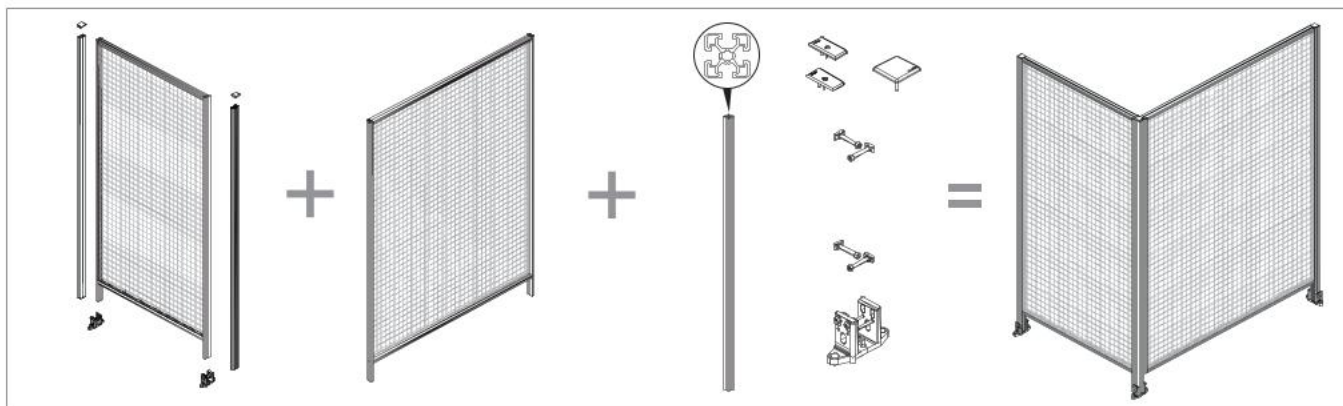
## 1 x direct panel



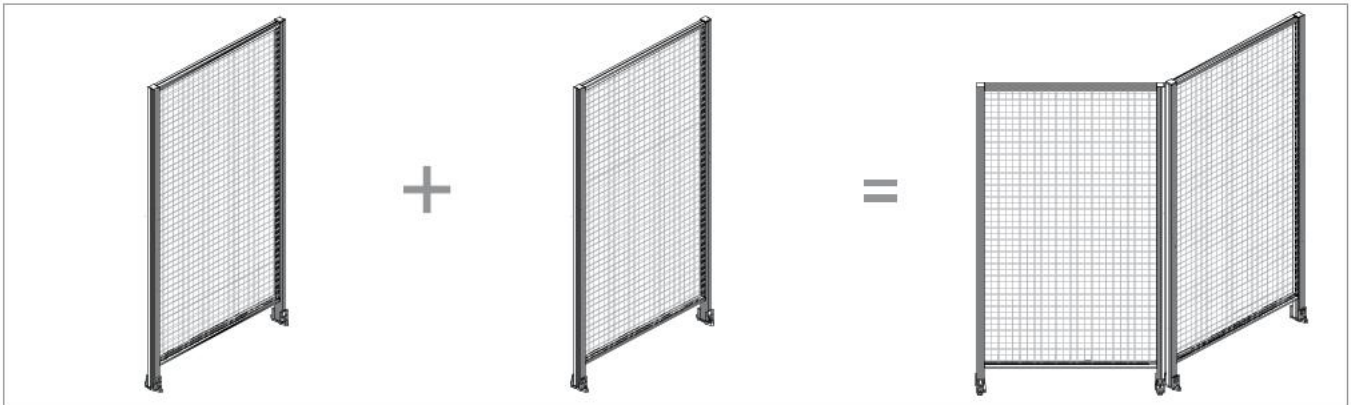
## 2 x direct panel



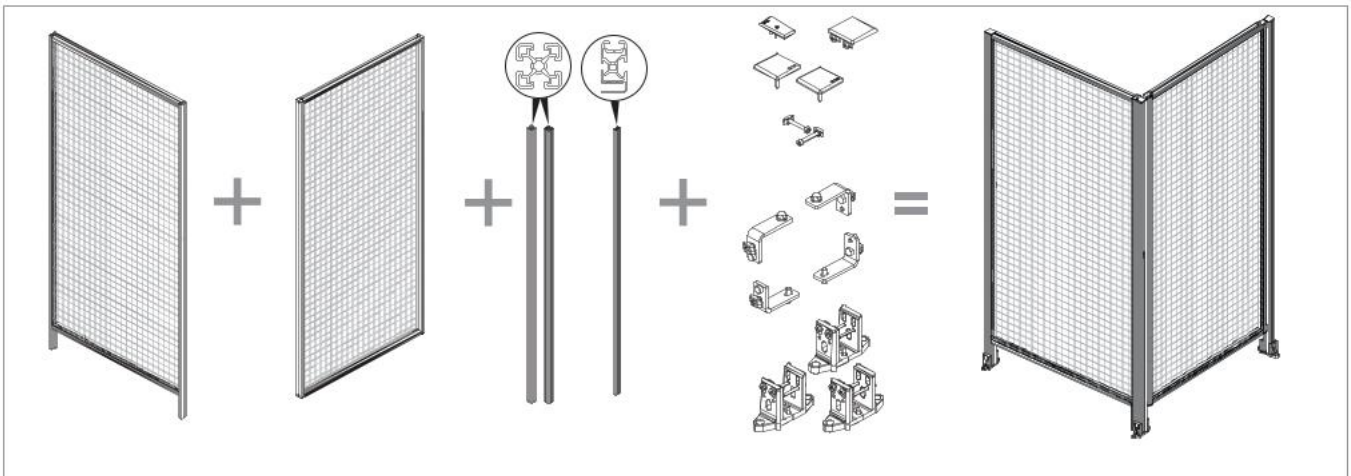
## 90 degree corner



### Corner with variable angle

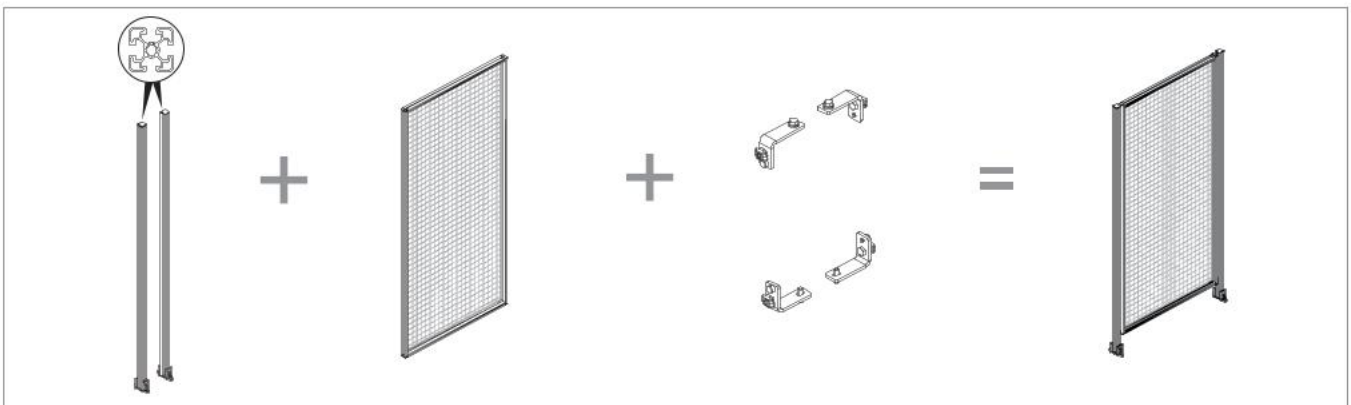


### Transition from direct field to suspension field

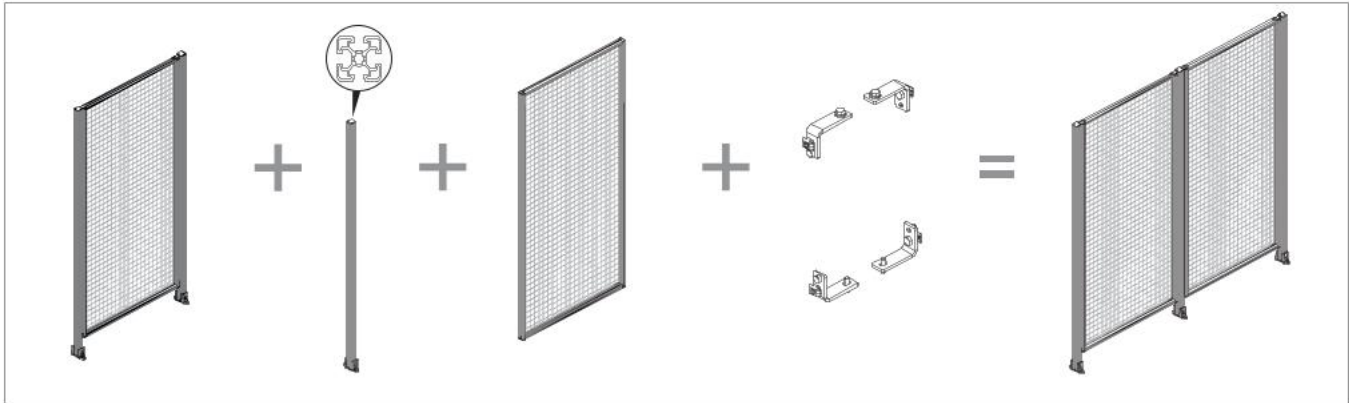


10

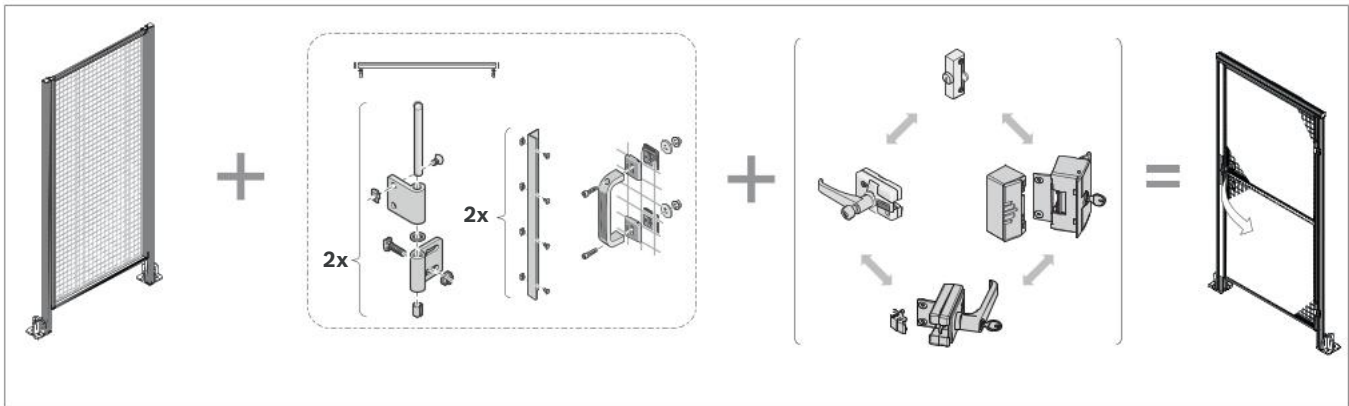
### 1 x suspension panel



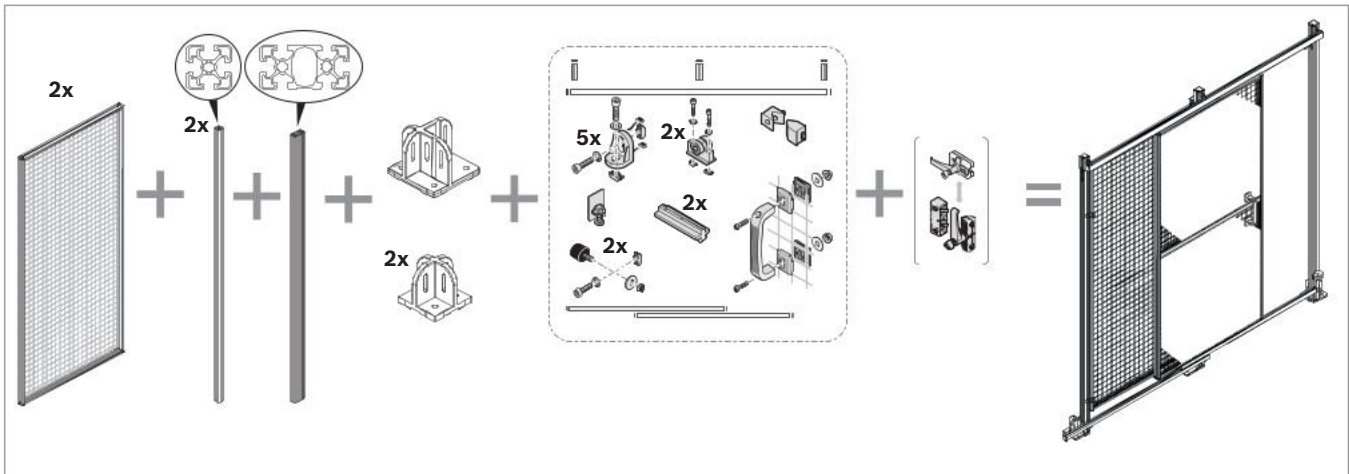
### 2 x suspension panel



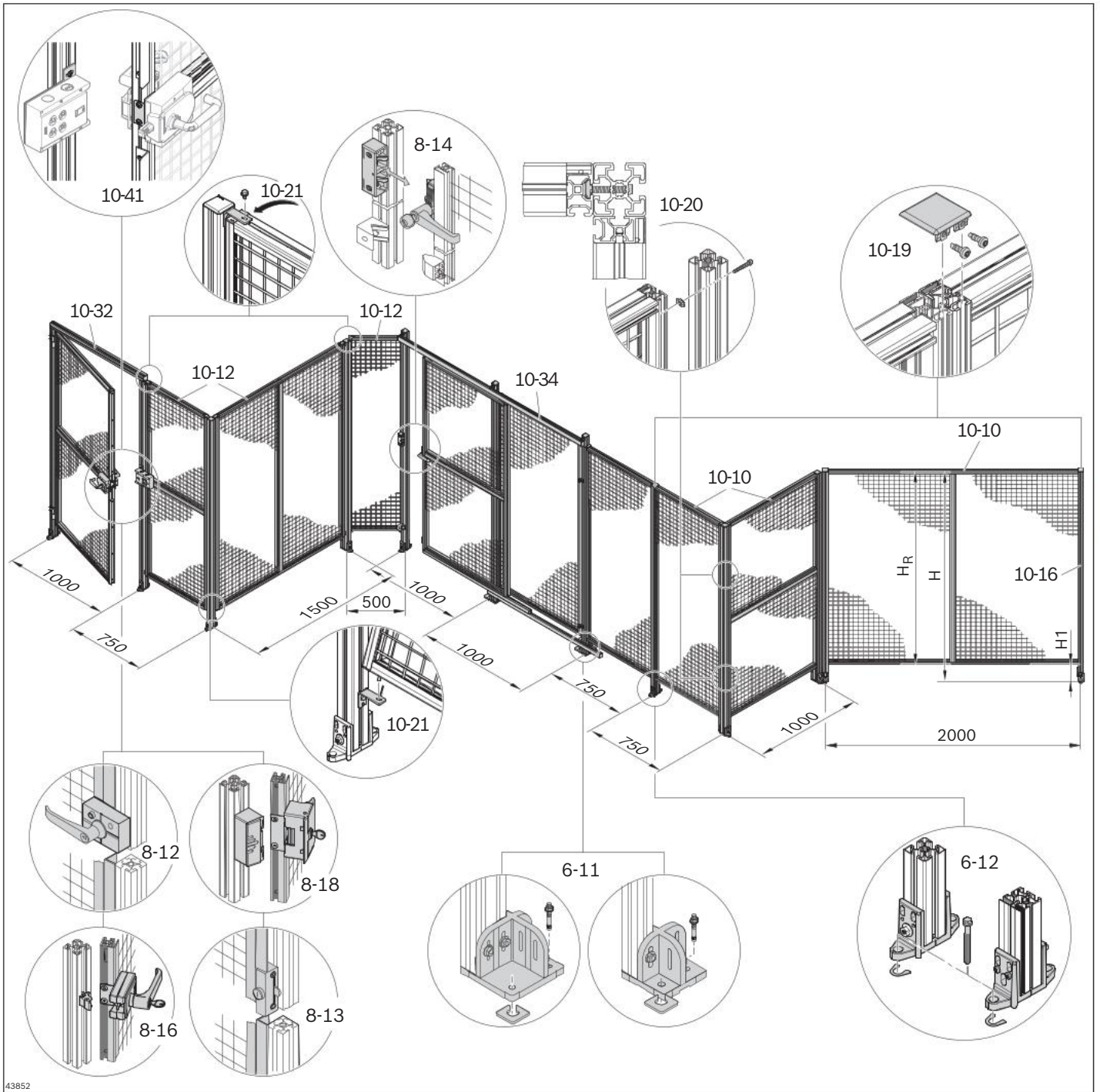
### System door



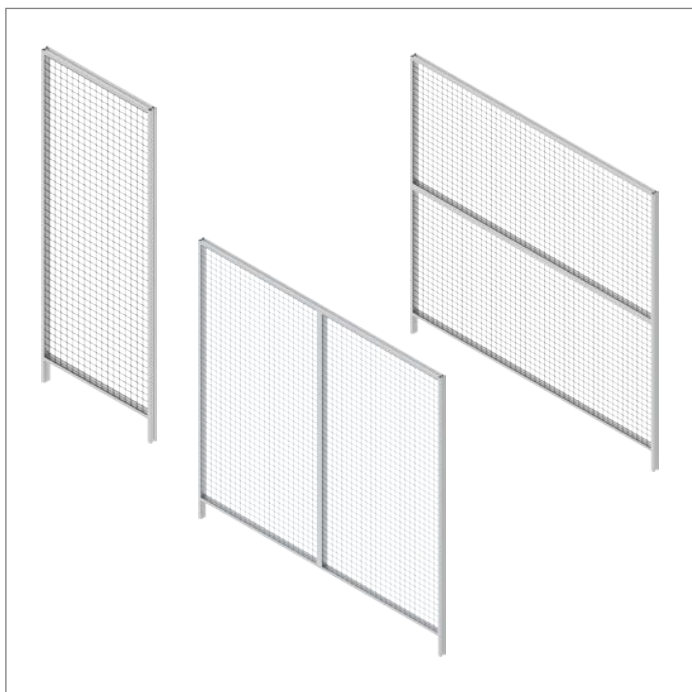
### Sliding door with superstructure



**EcoSafe protective fence components frame profile 22.5x45**



43852

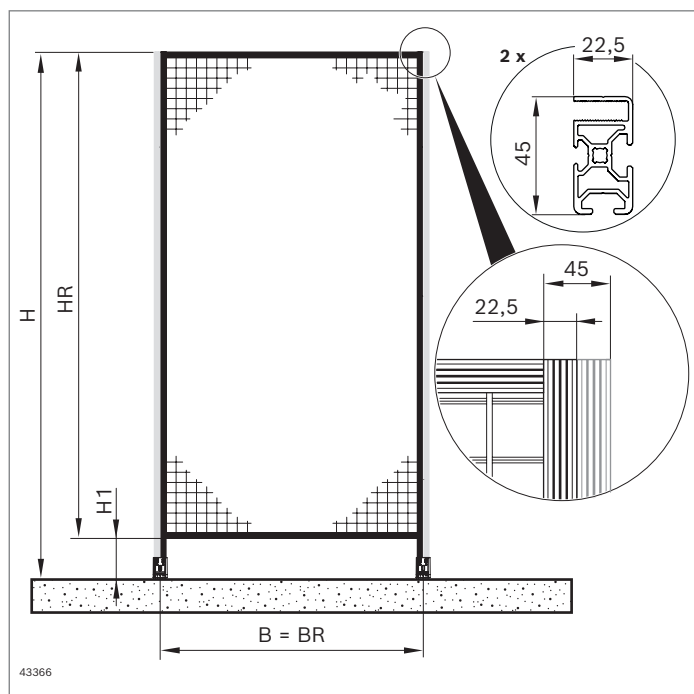


### Protective frame – direct panel

- ▶ 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

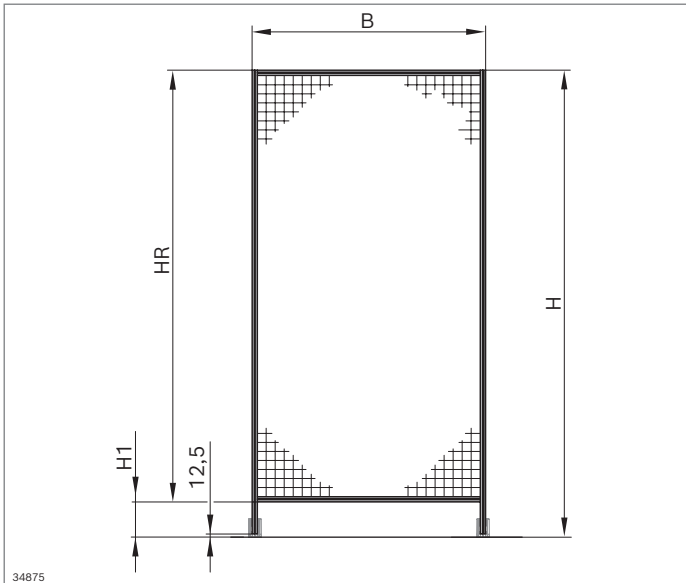
**B = BR** = Frame width (left outer edge/right outer edge)

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

**H1** = Ground clearance (floor/bottom edge of frame)

**H** = **HR** + **H1** (total height)

43366

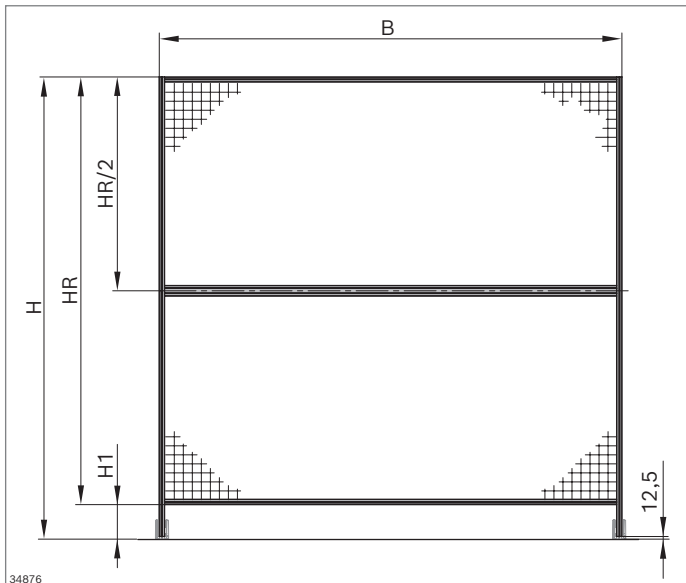


Direct panel	H (mm)	H1 (mm)	HR* (mm)	B (mm)	No.
Galvanized	2000	150	1850	500	<b>3 842 567 902</b>
					<b>750 3 842 567 903</b>
					<b>1000 3 842 567 904</b>
					<b>1500 3 842 567 905</b>
Black	2000	150	1850	500	<b>3 842 567 906</b>
					<b>750 3 842 567 907</b>
					<b>1000 3 842 567 908</b>
				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

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

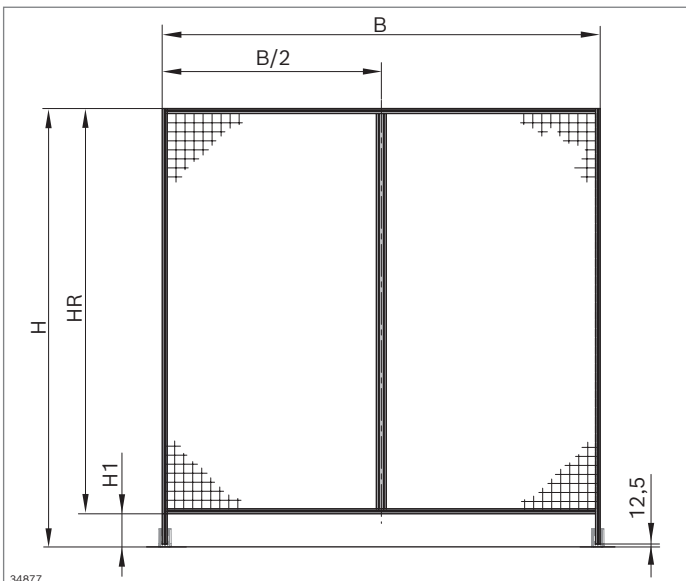


Direct panel, horizontally divided	H (mm)	H1 (mm)	HR* (mm)	B (mm)	No.
Galvanized	2000	150	1850	2000	<b>3 842 567 910</b>
Black	2000	150	1850	2000	<b>3 842 567 911</b>
Hmax = 80 ... 2300 200 ... 2420 100 ... 2500 2500mm					<b>3 842 994 245 /H1, HR, B, FA</b>

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

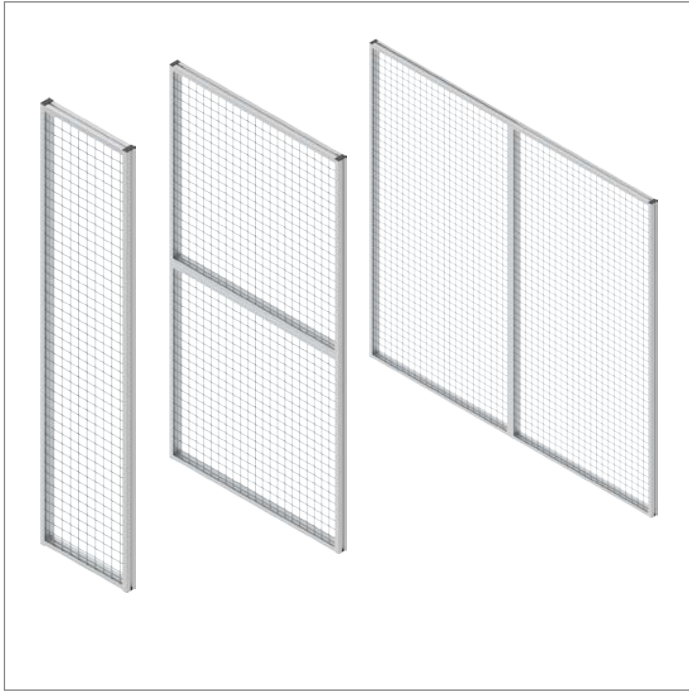


Direct panel, vertically divided	H (mm)	H1 (mm)	HR* (mm)	B (mm)	No.
Hmax = 80 ... 2400 100 ... 2420 200 ... 2500 2500mm					<b>3 842 994 246 /H1, HR, B, FA</b>

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

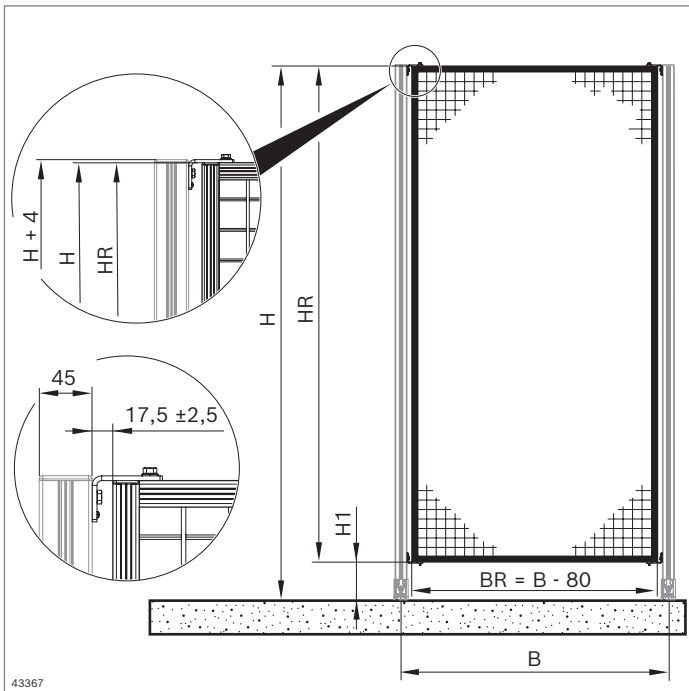
Grille color: FA = 0: hot-zinc-plated  
FA = 1: black; RAL 9005 (e.g. for fence)  
FA = 2: yellow; RAL 1023 (e.g. for doors)

\* HR ≤ 2500-H1



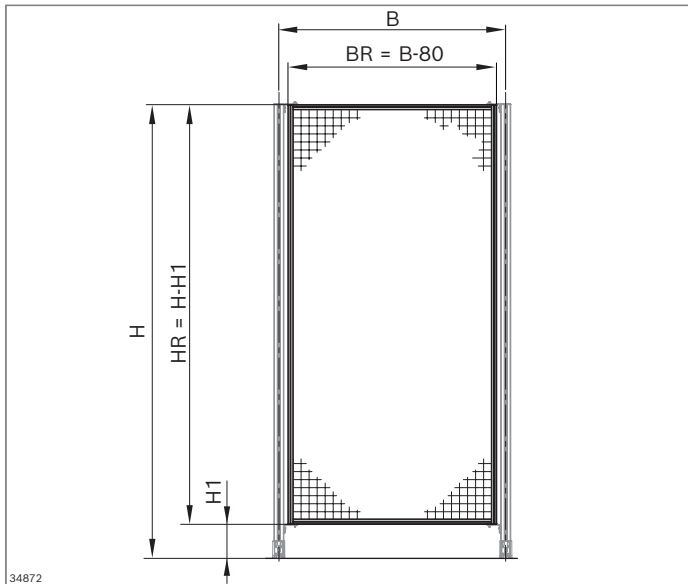
### Protective frame – suspension panel

- ▶ 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)

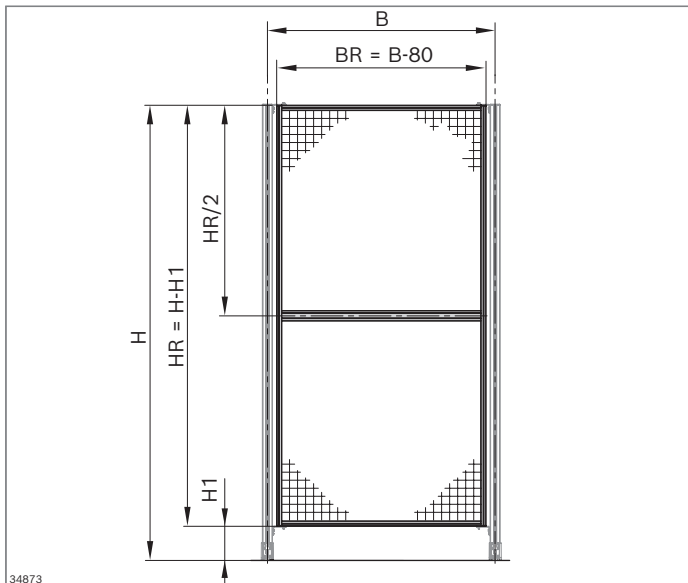


### System dimensions

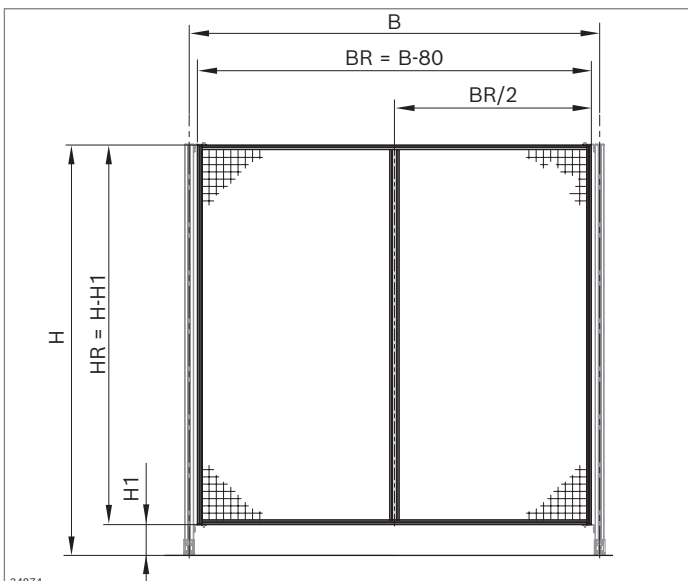
- B** = center of leg set/center of leg set
- BR** = frame width (left outer edge/right outer edge)
- HR** = frame height (lower/upper edge of frame)
- H1** = ground clearance (floor/bottom edge of frame)
- H** = (total height)



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Suspension panel	HR (mm)	B (mm) No.
Galvanized	1850	500 <b>3 842 567 945</b>
		750 <b>3 842 567 946</b>
		1000 <b>3 842 567 947</b>
		1500 <b>3 842 567 948</b>
Black	1850	500 <b>3 842 567 949</b>
		750 <b>3 842 567 950</b>
		1000 <b>3 842 567 951</b>
		1500 <b>3 842 567 952</b>
	100 ... 2350 180 ... 1500	<b>3 842 994 247 /HR, B, FA</b>

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 <b>3 842 567 953</b>
Black	1850	1000 <b>3 842 567 954</b>
	200 ... 2350 180 ... 2500	<b>3 842 994 248 /HR, B, FA</b>

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 <b>3 842 567 955</b>
Black	1850	2000 <b>3 842 567 956</b>
	100 ... 2350 280 ... 2500	<b>3 842 994 249 /HR, B, FA</b>

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)



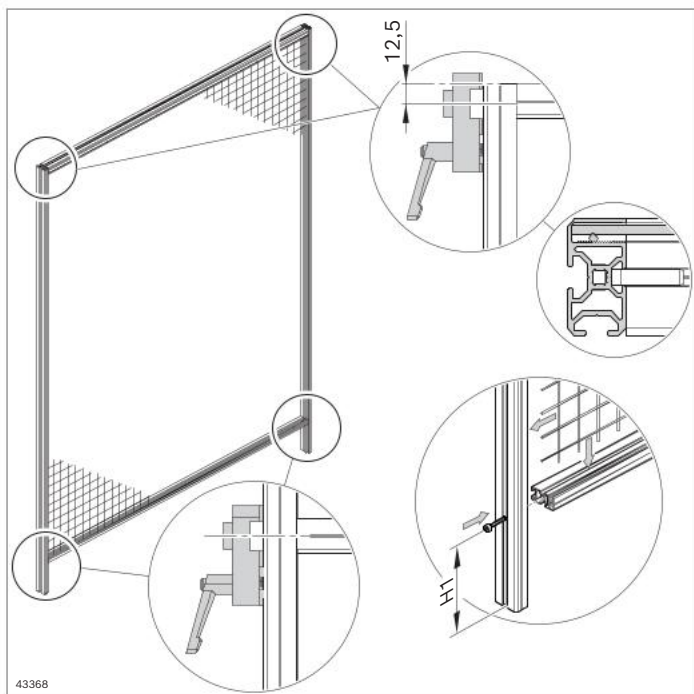
### Frame profiles

- ▶ 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)

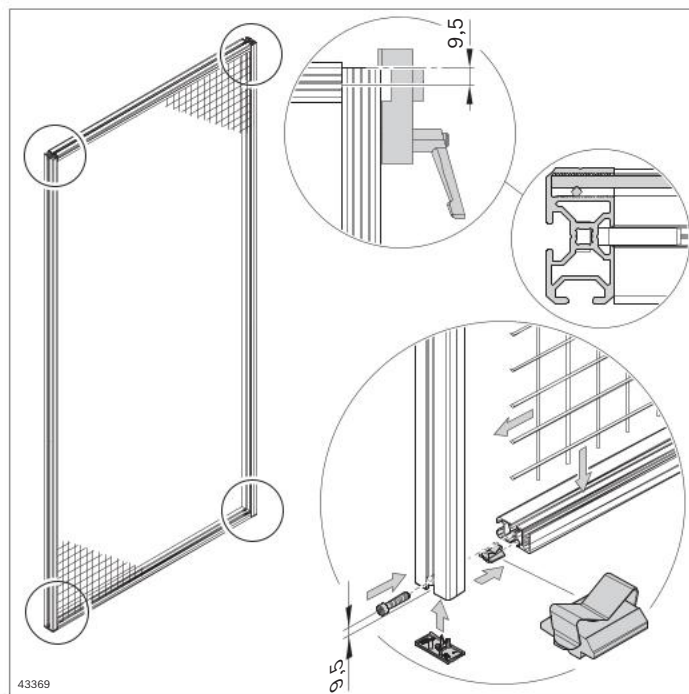
Required accessories:

- ▶ 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)

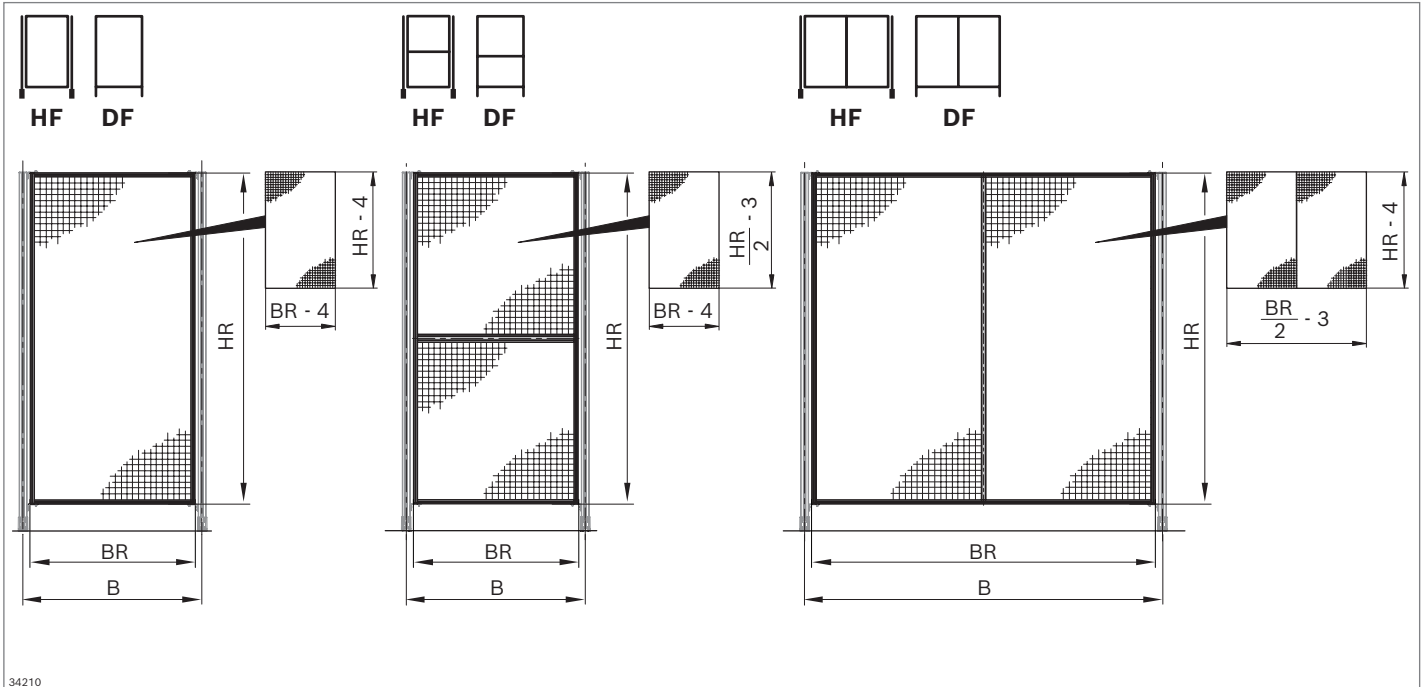
### Direct panel (DF) installation



### Suspension panel (HF) installation



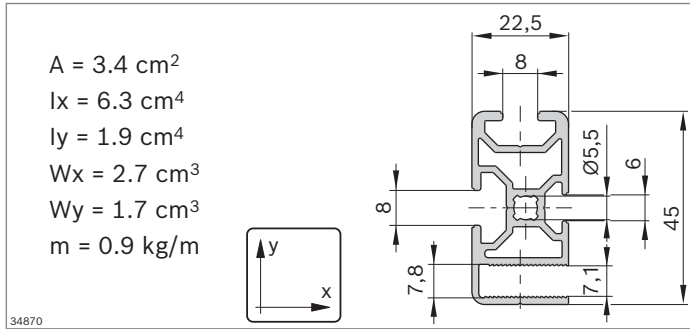
## Cut-to size spot-weld wire grille 40 x 40 x 3.8 and woven wire grille 40 x 40 x 4



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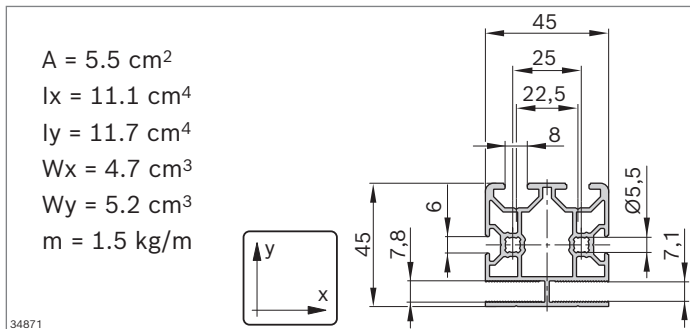
**System dimensions****B** = center of leg set/center of leg set**BR** = frame width (left outer edge/right outer edge)**HR** = frame height (lower/upper edge of frame)



► For frame construction of protective frames

Frame profile	L (mm)	No.
<b>22.5x45</b>		
1 pc	100 ... 6070	<b>3 842 994 232 / L</b>
1 pc	6070	<b>3 842 564 812</b>
24 pcs	6070	<b>3 842 564 813</b>

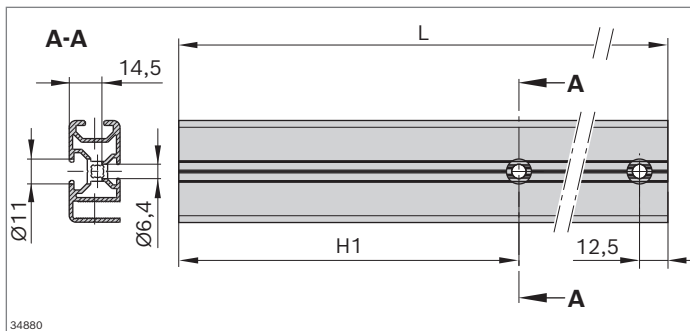
Material: Aluminum; anodized



► For central stiffening of divided protective frames

Frame profile	L (mm)	No.
<b>45x45</b>		
1 pc	100 ... 6070	<b>3 842 994 236 / L</b>
1 pc	6070	<b>3 842 564 821</b>
20 pcs	6070	<b>3 842 564 824</b>

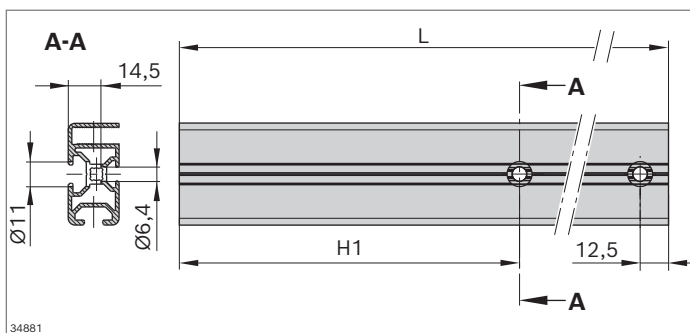
Material: Aluminum; anodized



► For direct panel (DF) vertical frame profile left

Frame profile	H1 (mm)	L (mm)	No.
<b>22.5x45</b>			
DF 1 pc	9.5 ... (L-50)	100 ... 5400	<b>3 842 994 233 / L, H1</b>

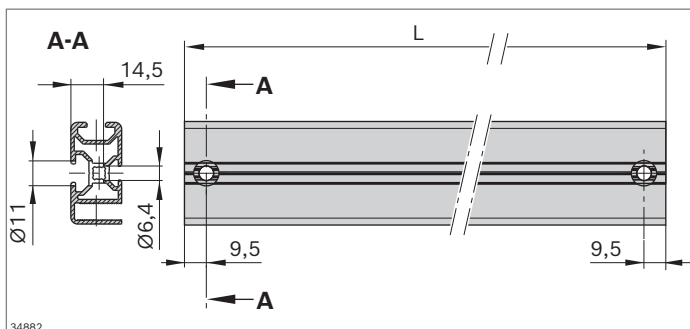
Material: Aluminum; anodized



► For direct panel (DF) vertical frame profile right

Frame profile	H1 (mm)	L (mm)	No.
<b>22.5x45</b>			
DF 1 pc	9.5 ... (L-50)	100 ... 5400	<b>3 842 994 234 / L, H1</b>

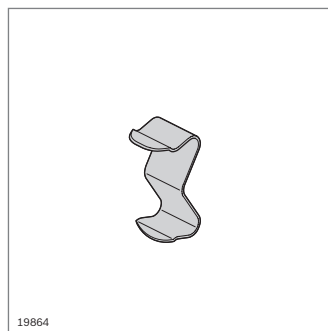
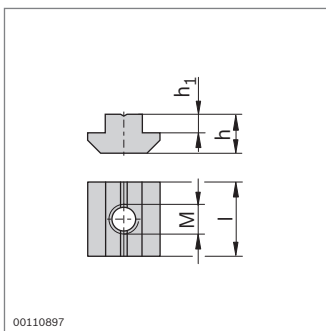
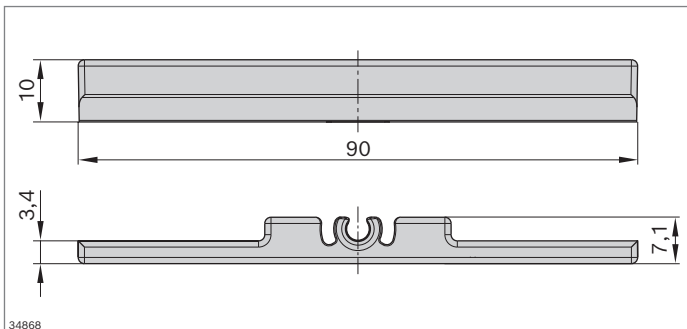
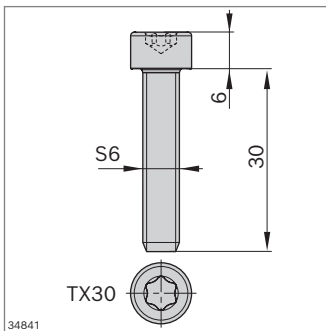
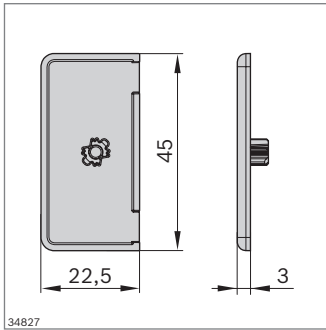
Material: Aluminum; anodized



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

Frame profile	L (mm)	No.
<b>22.5x45</b>		
HF 1 pc	100 ... 5400	<b>3 842 994 235 / L</b>

Material: Aluminum; anodized



► Cover cap as a design element and to prevent injuries

Cover cap	Color	ESD	No.
22.5x45	Signal gray	20	<b>3 842 572 021</b>
	Black	20	<b>3 842 572 022</b>

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	<b>3 842 567 978</b>

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 <b>3 842 571 958</b>

Material: PP; signal gray

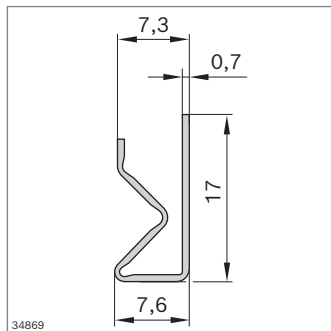
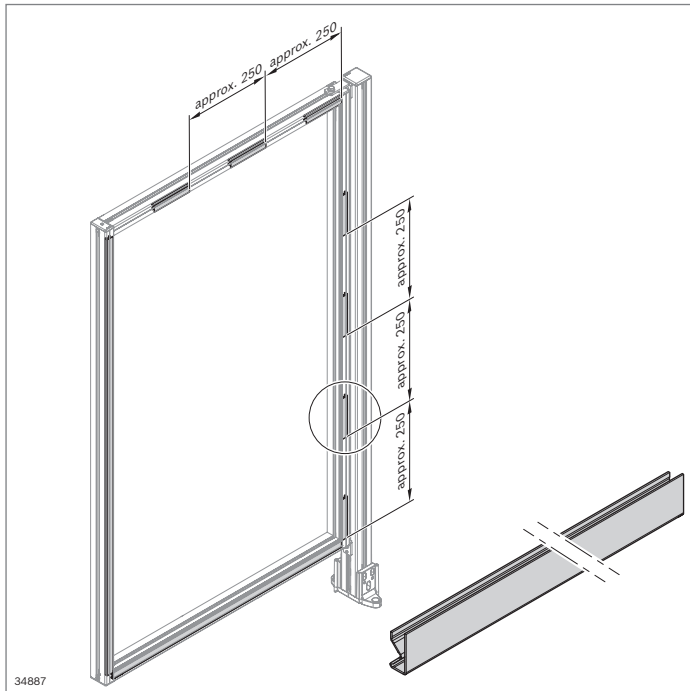
- Used to fasten the suspension brackets to the suspension panel

Sliding block M	h (mm)	h <sub>1</sub> (mm)	l (mm)	No.
8	6.0	2.0	16	100 <b>3 842 514 930</b>

Material: Steel; zinc-plated

Spring	Slot	No.
	8	100 <b>3 842 571 958</b>

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

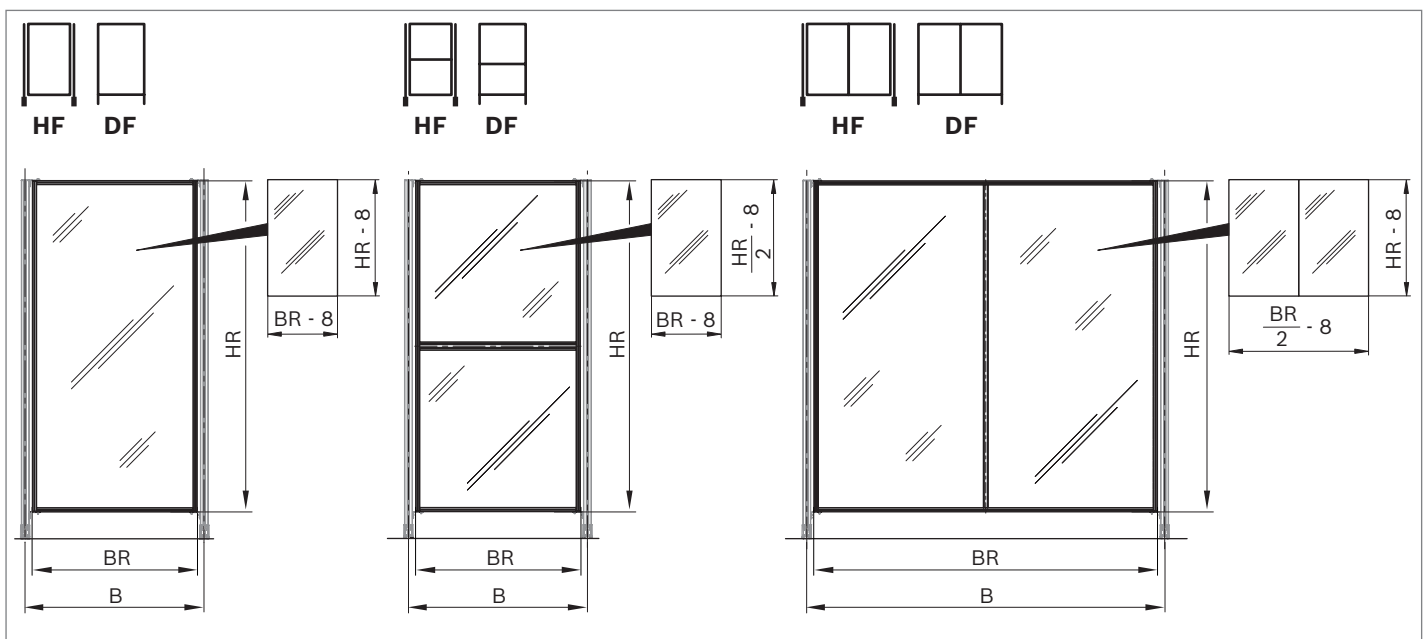
### System dimensions

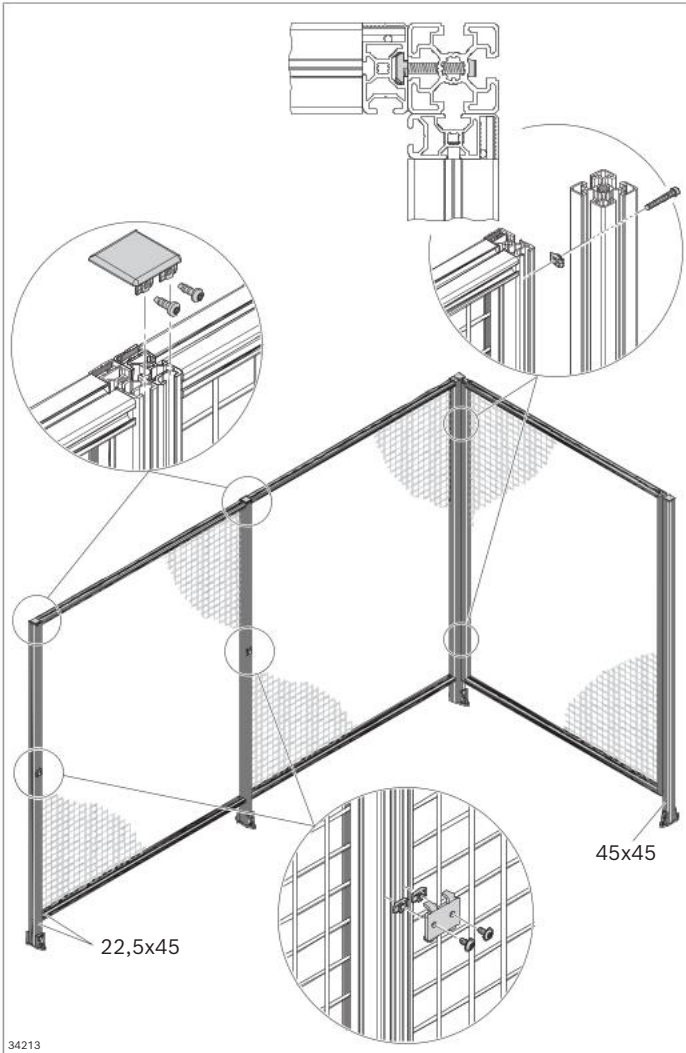
**B** = center of leg set/center of leg set

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

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

### Cut-to-size panel elements

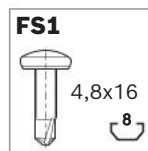
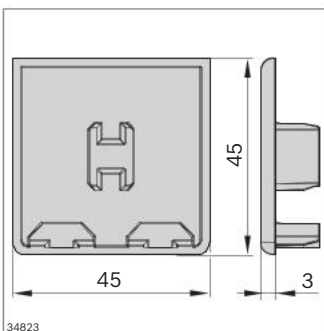




### Mounting cap, connection kit, mounting kit



- ▶ Mounting cap
- ▶ Connection kit
- ▶ Mounting kit

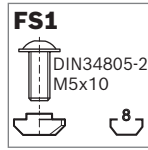
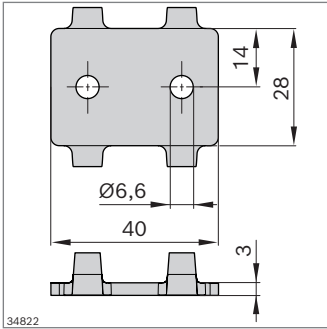


- ▶ For connecting two direct panels or frame profiles 22.5x45
- ▶ Also serves as cover cap
- ▶ Mounting via self-tapping screws

Mounting cap 45x45 SET	ESD	No.	FS
		10 <b>3 842 564 817</b>	2xFS1

Material: Cap: Diecast zinc;  
fastening material: Steel, galvanized

Scope of delivery: Incl. fastening material (FS)

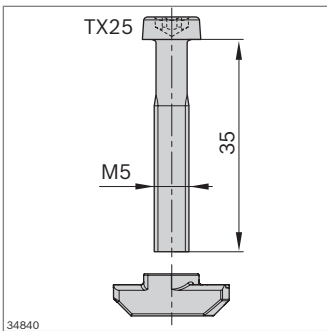


- ▶ For direct panels
- ▶ Optional element to join parallel frame profiles or direct panels
- ▶ For frame profile 22.5x45

Connection kit DF	Slot	ESD	No.	FS
	8		10	<b>3 842 564 823</b> 2xFS1

Material: Bracket: Aluminum; anodized;  
Fastening material: Steel, galvanized

Scope of delivery: Incl. fastening material (FS)



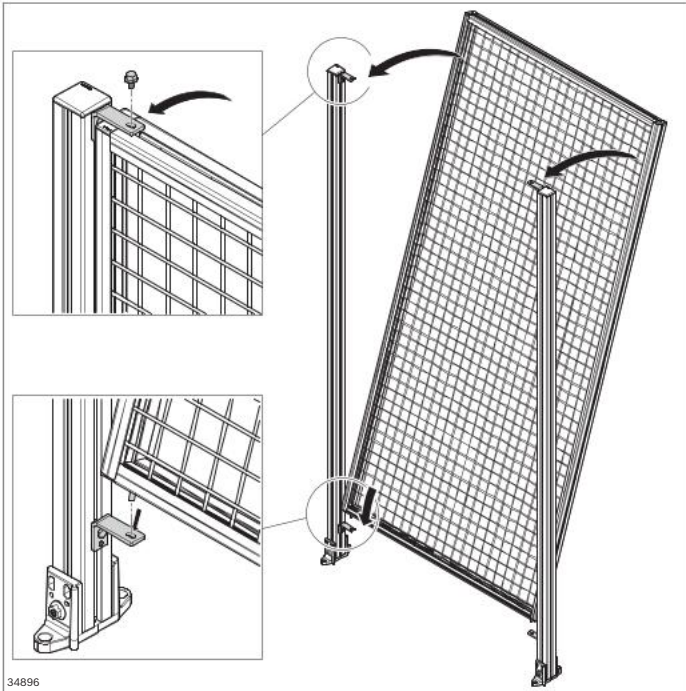
- ▶ For parallel connection of a 22.5x45 frame profile to a leg set with 10 mm profile slot
- ▶ Transition of EcoSafe direct panel to leg set
- ▶ Solution for corner with 90 degrees or transition to EcoSafe system doors
- ▶ Profile finishing of the leg set required:  
Stepped drilling Ø5.5 / Ø9.5

Accessories, recommended:

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

10 DF mounting kit	Slot	ESD	No.
	8		20 <b>3 842 571 959</b>

Material: Steel, galvanized



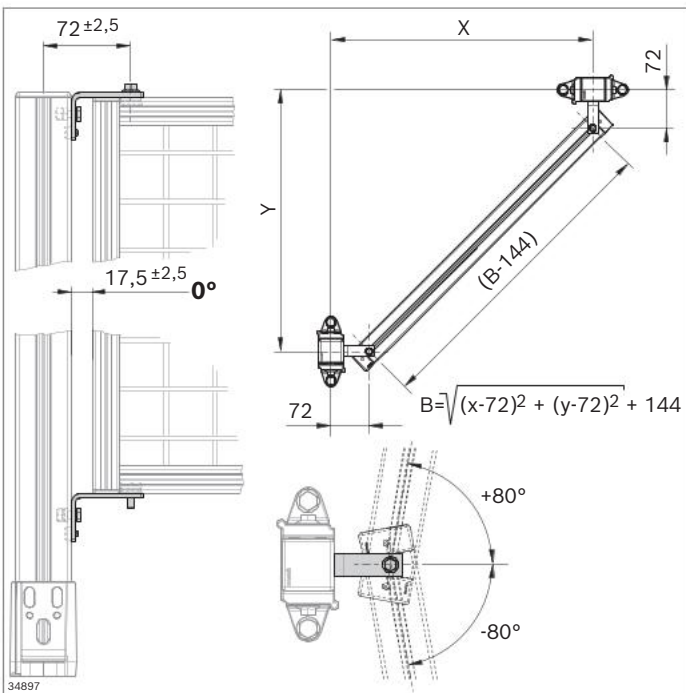
34896

## 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

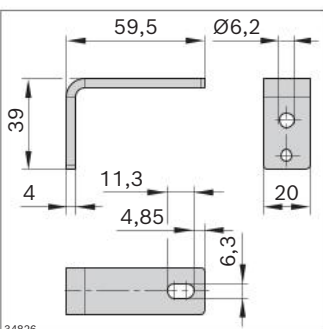


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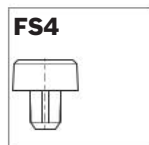
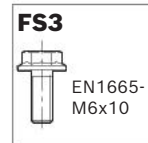
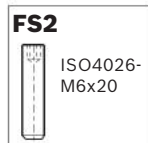
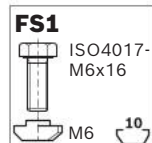
Suspension bracket HF SET	ESD	No.	FS
		1 <b>3 842 567 942</b>	4xFS1 2xFS2 2xFS3 4xFS4

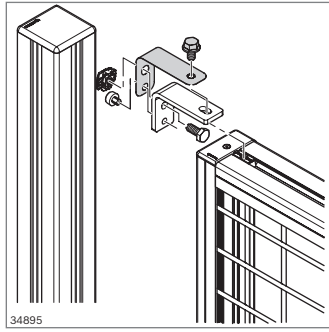
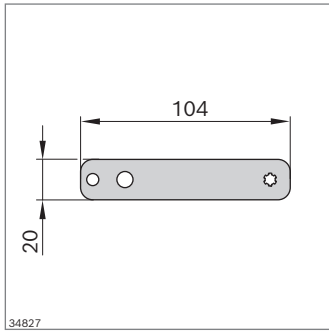
Material: Bracket Steel; zinc-plated;  
fastening material: Steel, galvanized  
Centering bolts: PA6

Scope of delivery: Incl. fastening material (FS)



34826





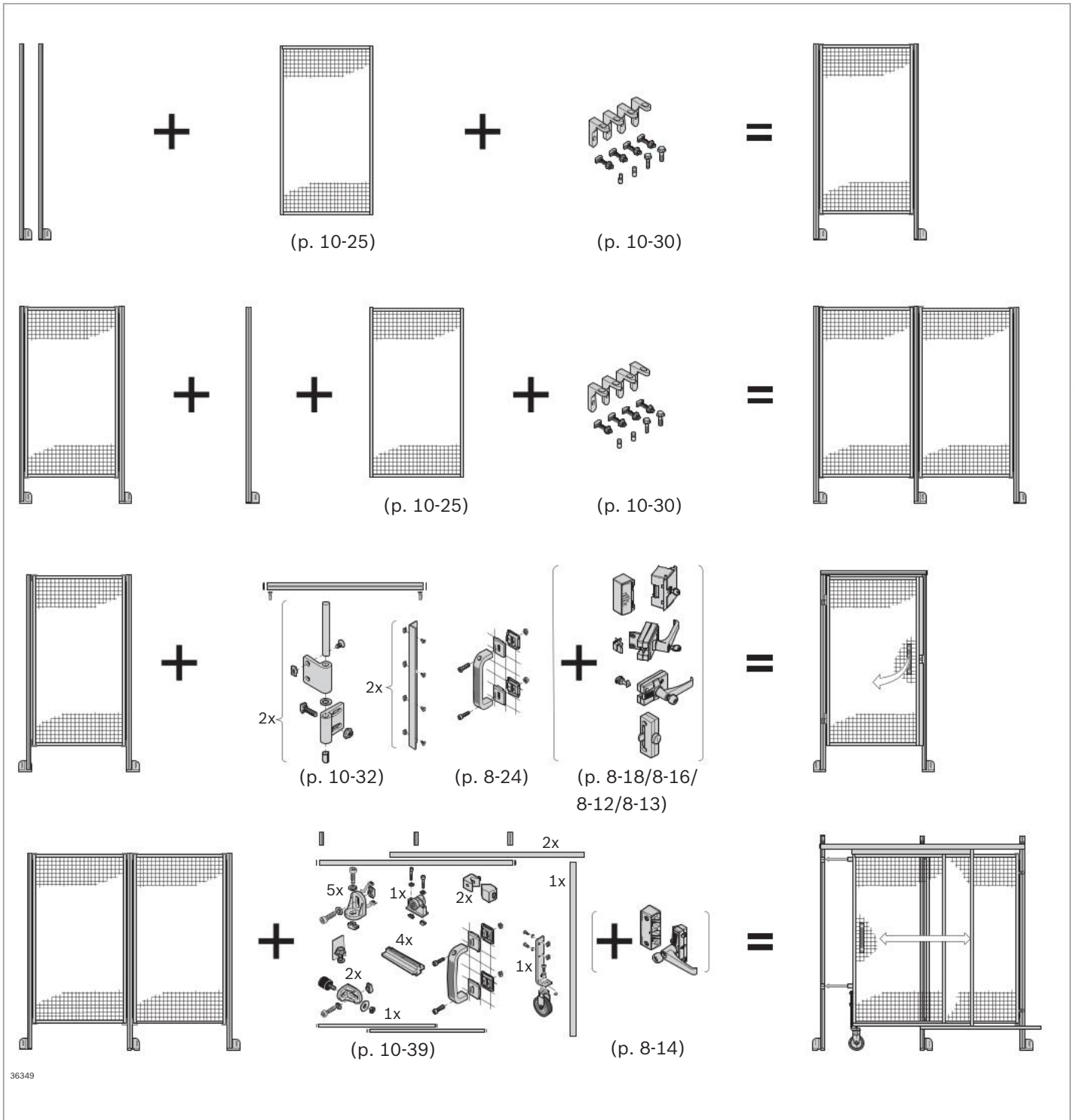
**Safety Strip loss prevention**

- ▶ 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

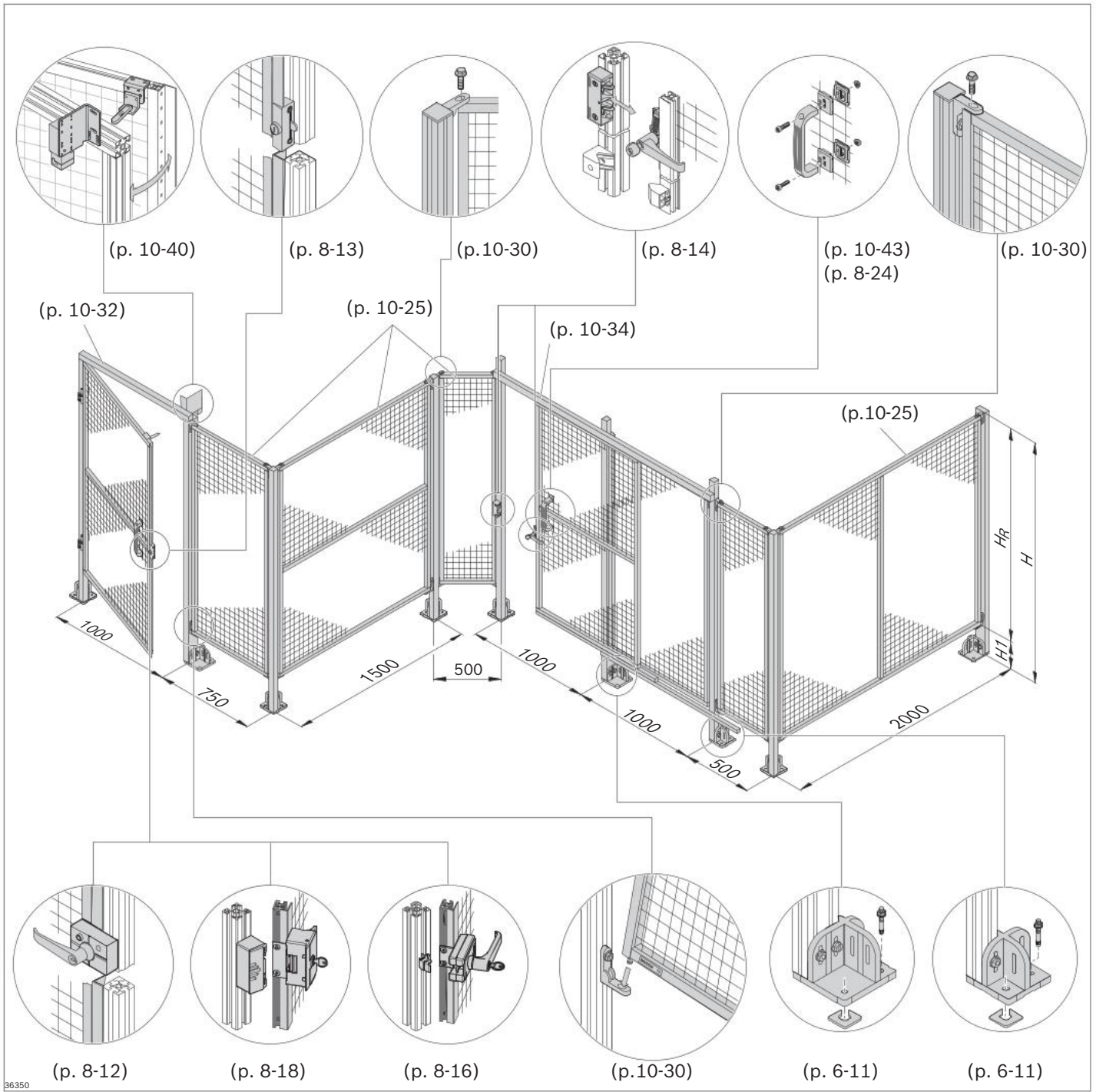
Loss prevention	🛡️	No.
<b>Safety Strip HF</b>	100	<b>3 842 567 935</b>

Material: PC; translucent

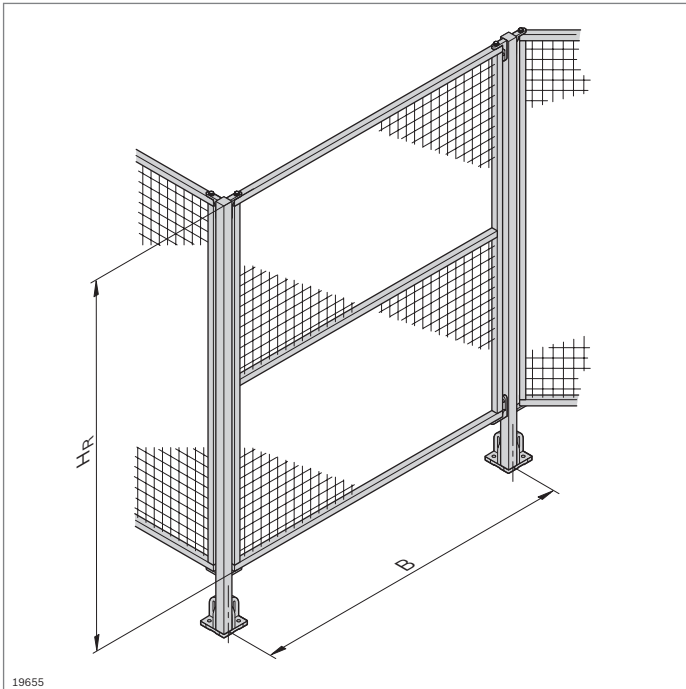
# EcoSafe protective fence components - frame profile 30x30WG



### EcoSafe protective fence components - frame profile 30x30WG



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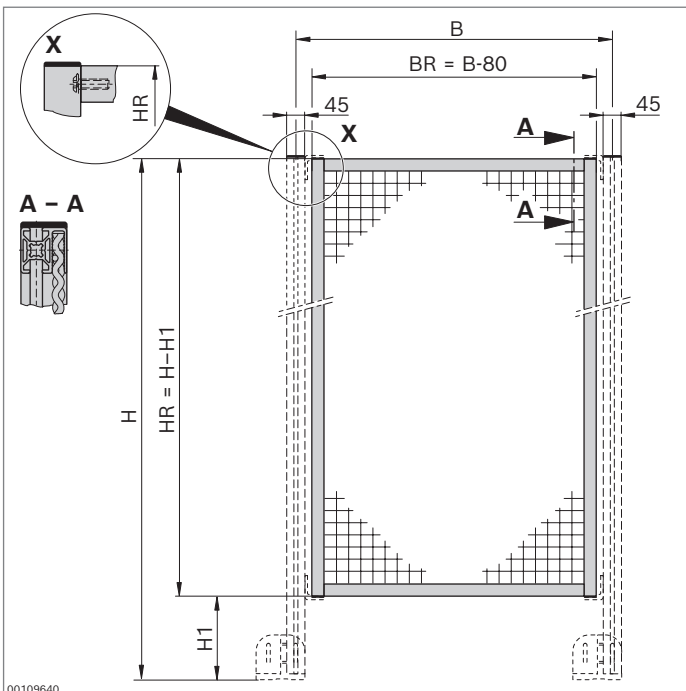


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## Protective frame suspension panel

- ▶ 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

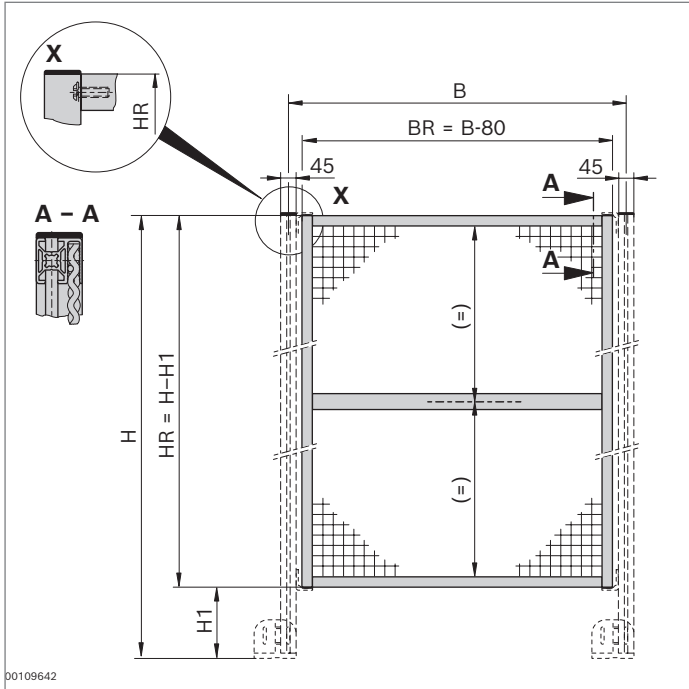
Matching leg sets (p. 10-31)



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Protective frame	HR (mm)	B (mm)	No.
	1800	500	<b>3 842 554 282</b>
		750	<b>3 842 554 283</b>
		1000	<b>3 842 554 284</b>
		1500	<b>3 842 554 285</b>
	250 ... 2300	250 ... 1500	<b>3 842 994 742 / HR, B, FA</b>

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)

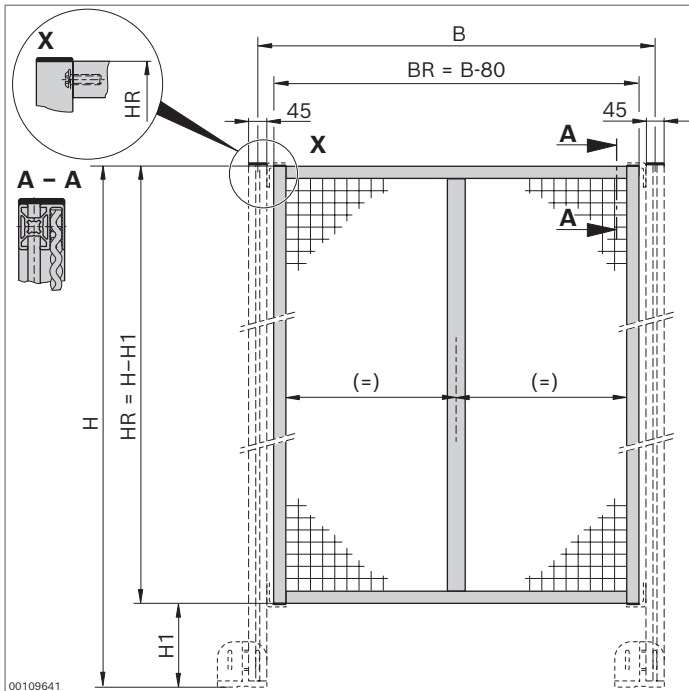


**Protective frame, horizontal sections**

HR (mm)	B (mm)	No.
1800	1000	<b>3 842 554 281</b>
500 ... 2300	250 ... 2500	<b>3 842 994 745 / HR, B, FA</b>

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)

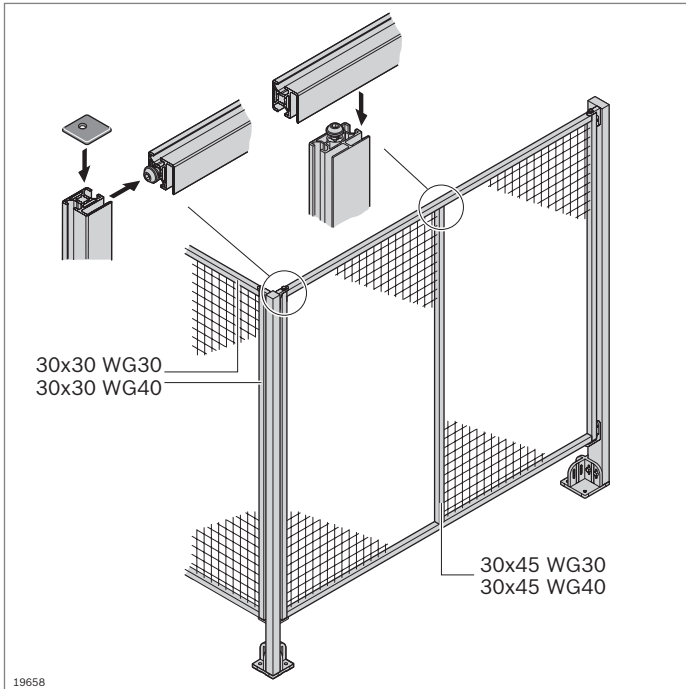


**Protective frame, vertical sections**

HR (mm)	B (mm)	No.
1800	2000	<b>3 842 554 280</b>
250 ... 2300	500 ... 3000	<b>3 842 994 744 / HR, B, FA</b>

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)



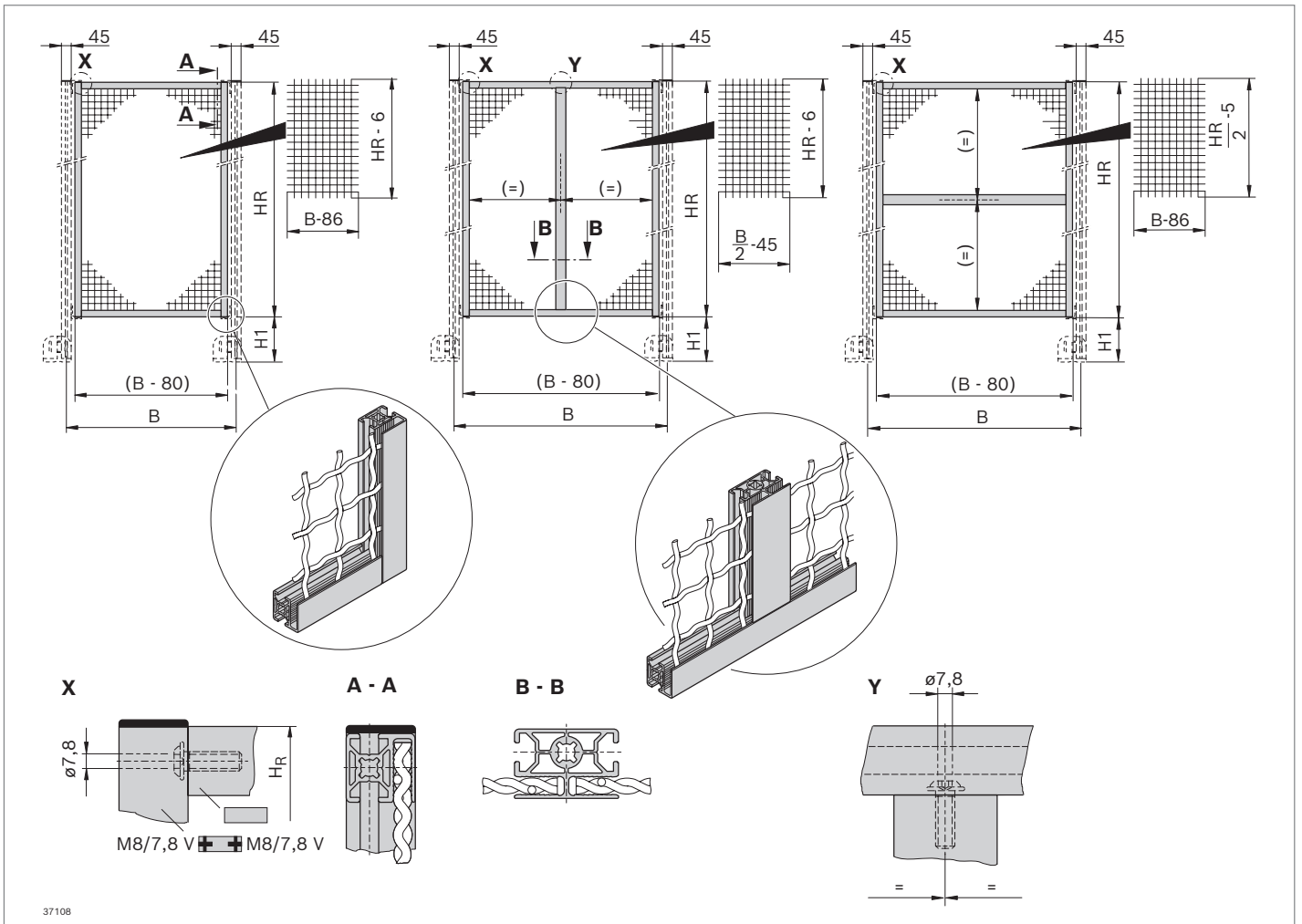
### Frame profiles

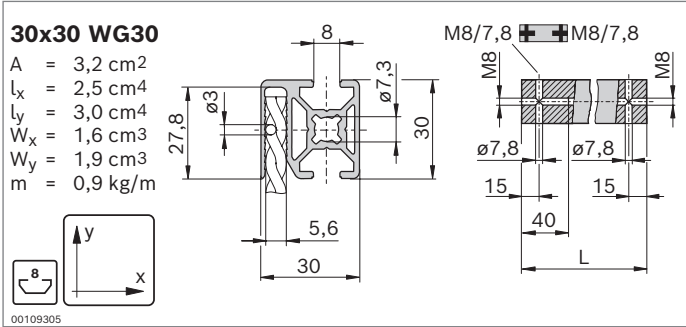


- ▶ For the low-cost construction of protective equipment with woven wire grilles WG30 and WG40
- ▶ Fastening of woven wire grilles: Directly in the special profile slot
- ▶ Fastening of panel elements: In the special profile slot using spring clamping elements (accessories)
- ▶ The profiles are connected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

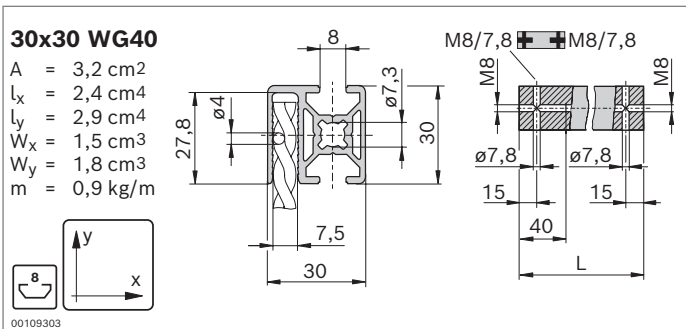
#### Required accessories:

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

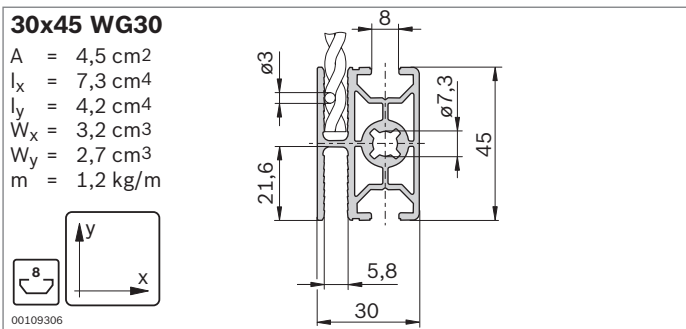




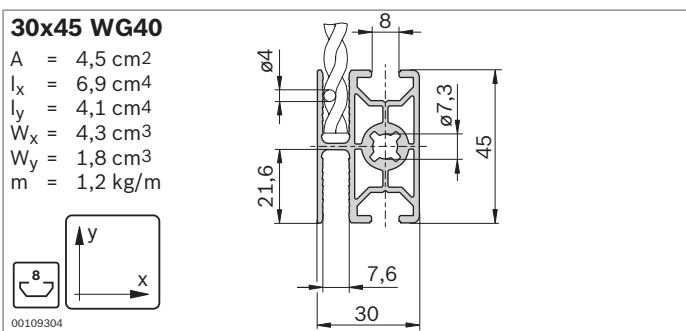
Frame profile	L (mm)	No.
<b>30x30 WG30</b>		
1 pc	100 ... 6070	<b>3 842 992 970 / L</b>
1 pc M8/7,8	100 ... 6000	<b>3 842 992 977 / L</b>
1 pc	6070	<b>3 842 557 237</b>
20 pcs	6070	<b>3 842 557 227</b>
Material: Aluminum; anodized		



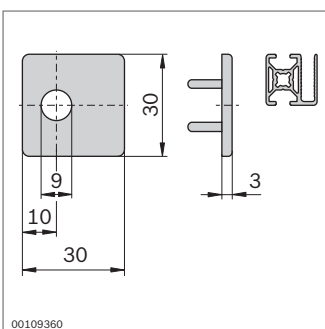
Frame profile	L (mm)	No.
<b>30x30 WG40</b>		
1 pc	100 ... 6070	<b>3 842 992 972 / L</b>
1 pc M8/7,8	100 ... 6000	<b>3 842 992 978 / L</b>
1 pc	6070	<b>3 842 557 239</b>
20 pcs	6070	<b>3 842 557 229</b>
Material: Aluminum; anodized		



Frame profile	L (mm)	No.
<b>30x45 WG30</b>		
1 pc	100 ... 6070	<b>3 842 992 971 / L</b>
1 pc	6070	<b>3 842 557 238</b>
20 pcs	6070	<b>3 842 557 228</b>
Material: Aluminum; anodized		



Frame profile	L (mm)	No.
<b>30x45 WG40</b>		
1 pc	100 ... 6070	<b>3 842 992 973 / L</b>
1 pc	6070	<b>3 842 557 247</b>
20 pcs	6070	<b>3 842 557 240</b>
Material: Aluminum; anodized		

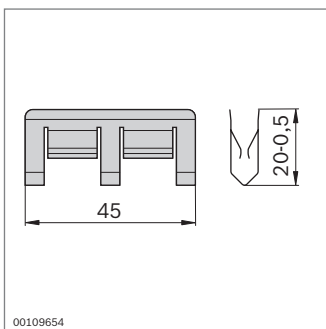
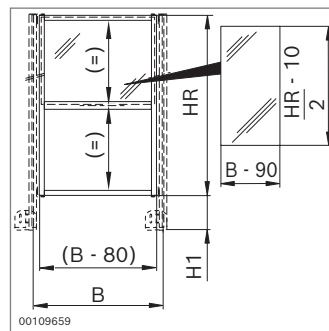
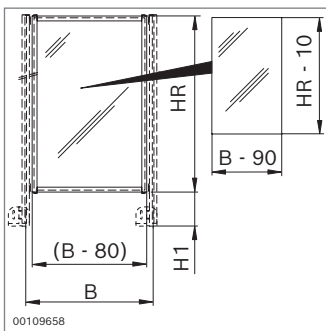
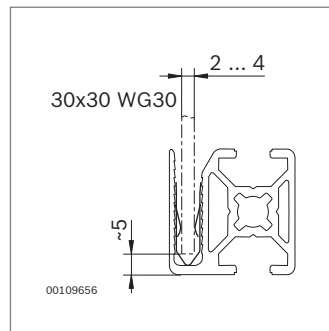
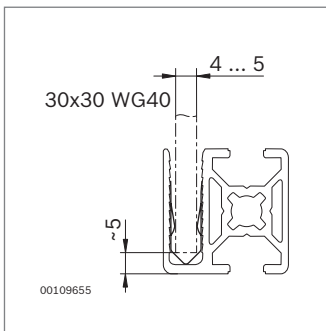
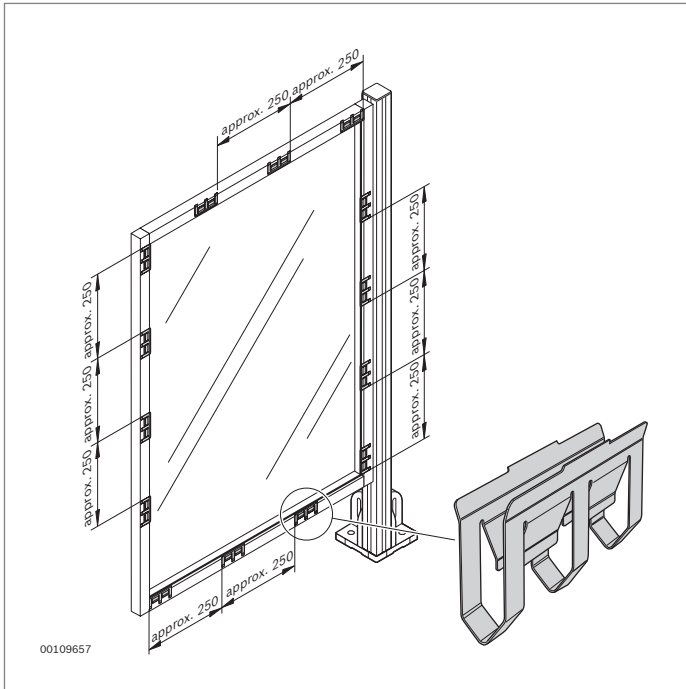


► Cover cap for a more attractive appearance and to prevent injuries

Cover cap	Color	ESD	No.
<b>30x30</b>	Signal gray	20	<b>3 842 555 134</b>
<b>30x30</b>	Black	20	<b>3 842 555 135</b>
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



19659

## Suspension bracket Safety Strip safety kit

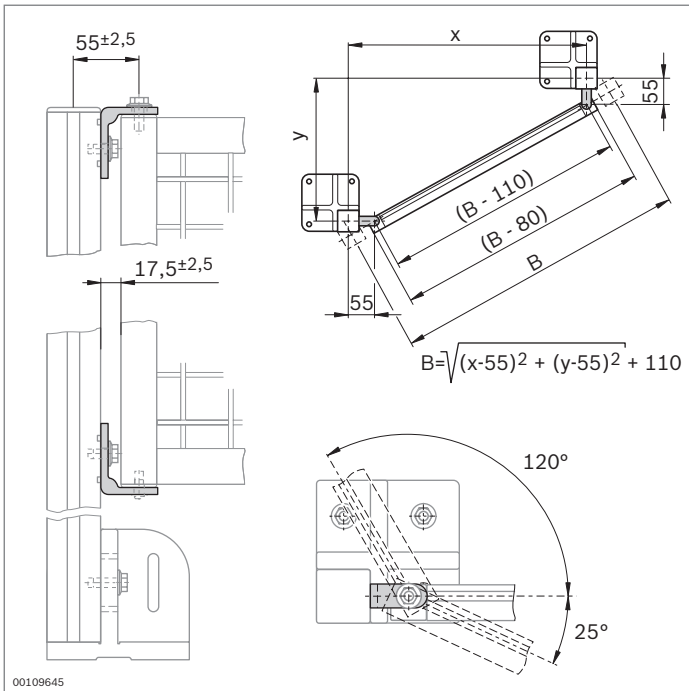


### Suspension bracket

- ▶ 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

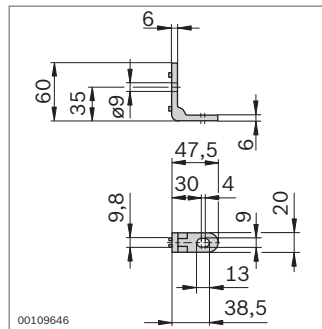


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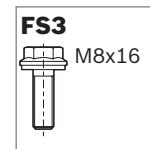
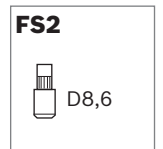
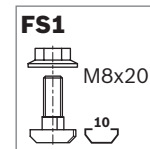
Suspension bracket	No.	FS
<b>Set</b>	<b>3 842 522 481</b>	4x FS1, 2x FS2, 2x FS3

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

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



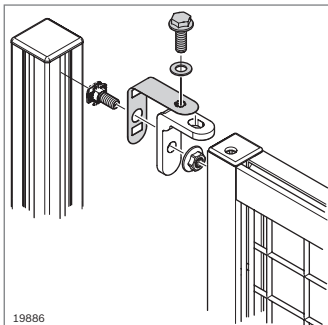
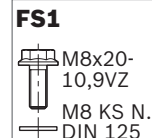
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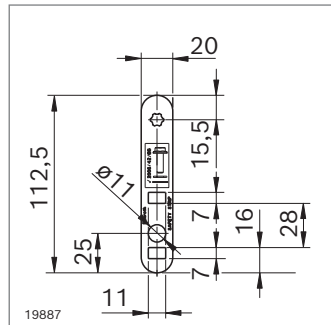
Safety Strip safety kit	No.	FS
	10 <b>3 842 542 146</b>	FS1

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

Scope of delivery: Incl. fastening material (FS)



19886



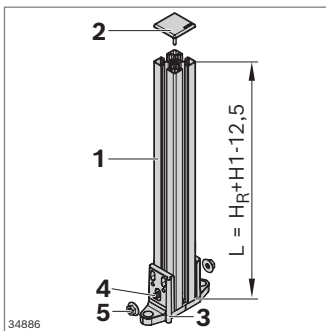
19887

# EcoSafe leg set



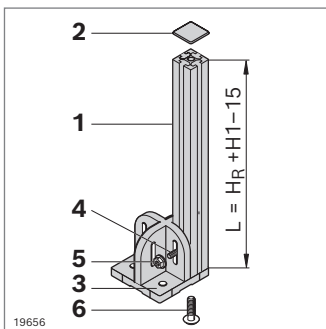
- ▶ Leg set as a component for suspension panels, doors and safety fence systems
- ▶ For corner connections of two panels

Individually construct the leg sets using standard components



## Leg set with foot 45x45

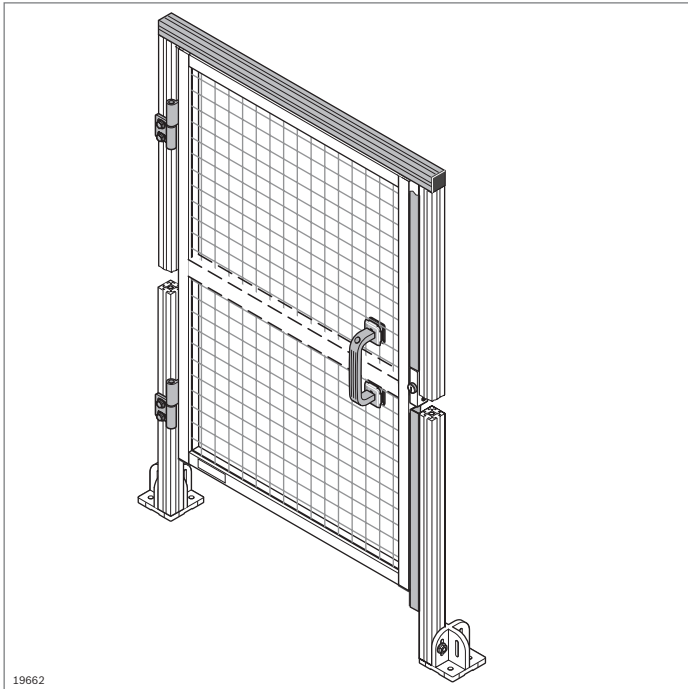
Component	Pcs	No.	Page
<b>1</b> Profile 45x45L	1	<b>3 842 992 425 / L</b>	2-37
<b>2</b> Cover cap 45x45 ESD	1	<b>3 842 548 753</b>	2-37
<b>3</b> Foot 45x45	1	<b>3 842 564 814</b>	6-12
<b>4</b> T-bolt M8x25	2	<b>3 842 528 718</b>	3-6
<b>5</b> Flange nut M8	2	<b>3 842 345 081</b>	3-6



## Leg set with base plate 120x120

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

# Door kits

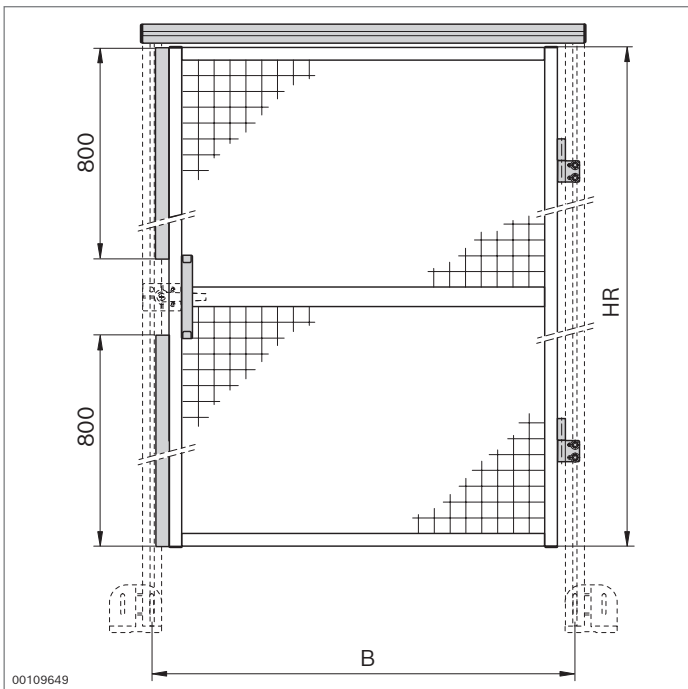


## EcoSafe system door kit

- ▶ 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:

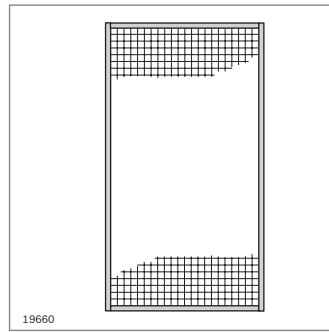
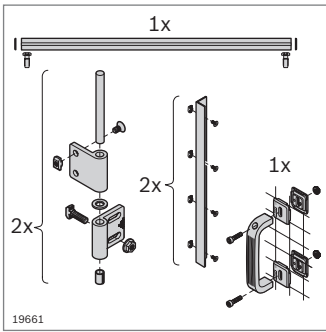
- ▶ Door lock (p. 8-12, 8-13, 8-14, 8-16, 8-18, 8-20)
- ▶ Attachment kit for safety switch (p. 10-40)
- ▶ Base plate 150x150 (3 842 524 469) with leg set made of 45x90L profiles
- ▶ For doors HR > 1850 mm, an additional hinge (3 842 544 562) is recommended



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

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	<b>3 842 567 946</b>
Protective frame HF, black	1850	750	<b>3 842 567 950</b>
Protective frame HF <sup>1)</sup> , galvanized	1850	1000	<b>3 842 567 953</b>
Protective frame HF <sup>1)</sup> , black	1850	1000	<b>3 842 567 954</b>

<sup>1)</sup> horizontally divided

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

Scope of delivery: Fully assembled

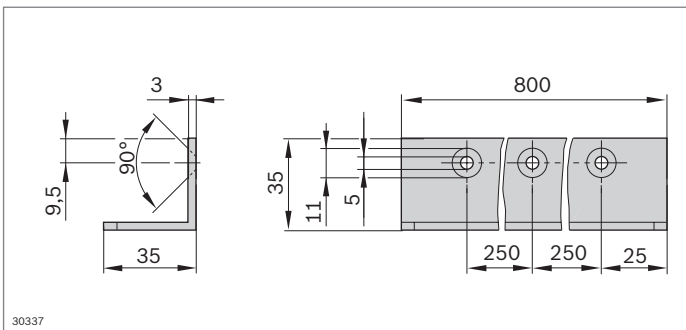
#### Frame profile 30x30 WG40

Protective frame	HR (mm)	B (mm)	No.
Protective frame, galvanized	1800	750	<b>3 842 554 283</b>
Protective frame <sup>1)</sup> , galvanized	1800	1000	<b>3 842 554 281</b>

<sup>1)</sup> horizontally divided

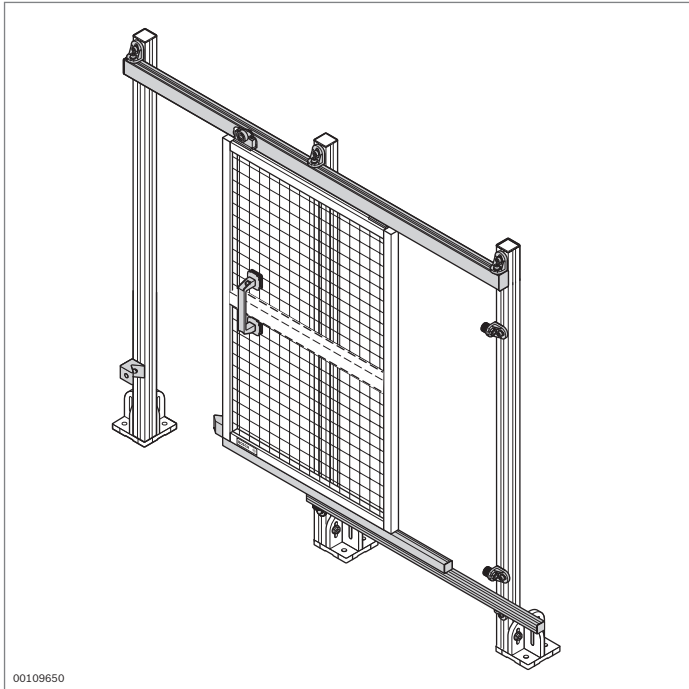
Material: Aluminum; woven wire grille and fastening material: Steel; zinc-plated

Scope of delivery: Fully assembled



► System door stop rail for self-assembly

Stop rail	No.
	<b>3 842 523 170</b>

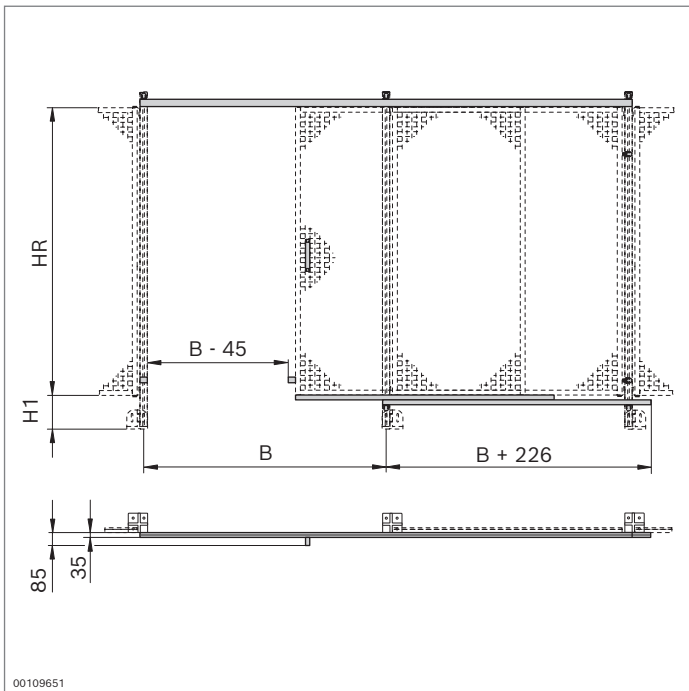


### EcoSafe assembly kit for sliding door with superstructure

- ▶ 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:

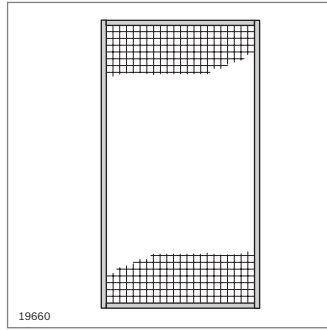
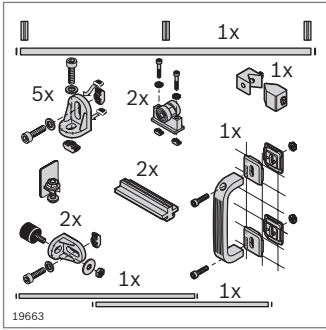
- ▶ Door lock (p. 8-12, 8-14, 8-16, 8-20)
- ▶ Base plate 150x150 (3 842 524 469) with leg set made of 45x90L profiles



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

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	<b>3 842 567 947</b>
Protective frame HF, black	1850	1000	<b>3 842 567 951</b>
Protective frame HF, galvanized	1850	1500	<b>3 842 567 948</b>
Protective frame HF, black	1850	1500	<b>3 842 567 952</b>

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

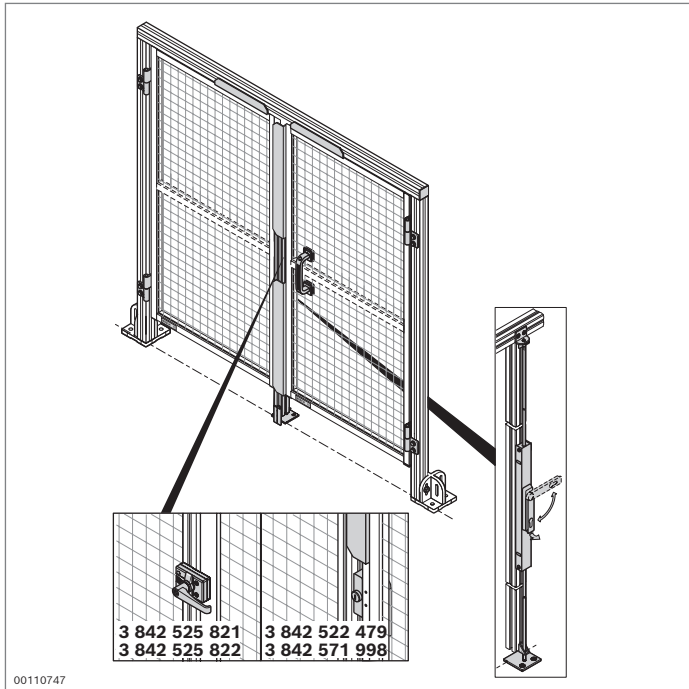
Scope of delivery: Fully assembled

#### Frame profile 30x30 WG40

Protective frame	HR (mm)	B (mm)	No.
Protective frame, galvanized	1800	1000	<b>3 842 554 284</b>
Protective frame, galvanized	1800	1500	<b>3 842 554 285</b>

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

Scope of delivery: Fully assembled

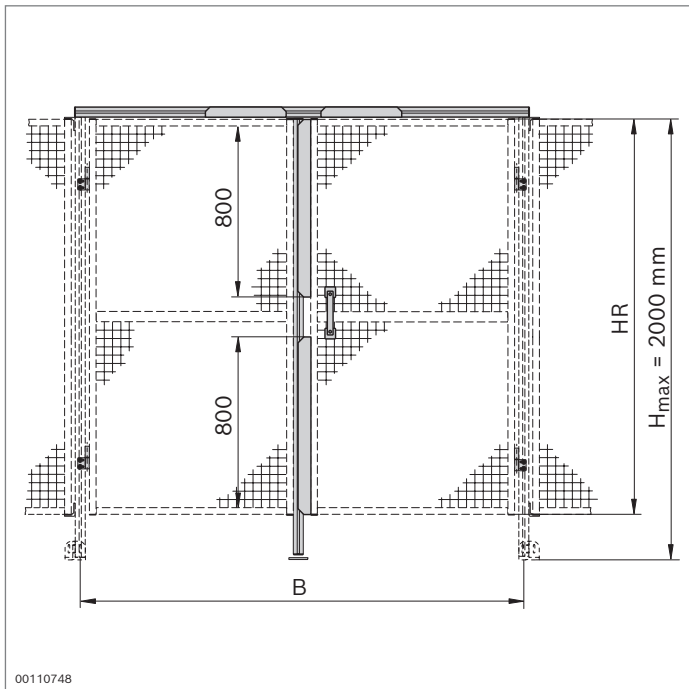


### EcoSafe double door kit

- ▶ 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

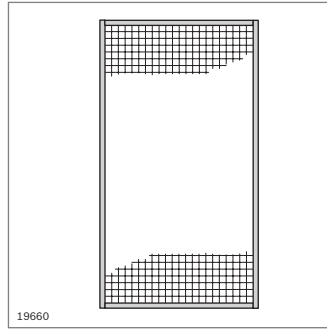
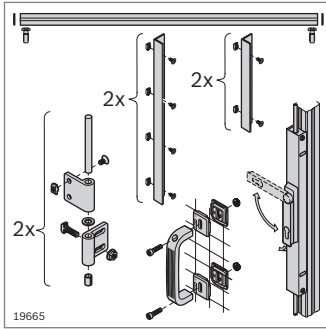
#### Accessories, optional:

- ▶ 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	<b>3 842 525 781</b>
	1800/1850	2000	<b>3 842 525 782</b>

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	<b>3 842 567 946</b>
Protective frame HF, black	1850	750	<b>3 842 567 950</b>
Protective frame HF <sup>1)</sup> , galvanized	1850	1000	<b>3 842 567 953</b>
Protective frame HF <sup>1)</sup> , black	1850	1000	<b>3 842 567 954</b>

<sup>1)</sup> horizontally divided

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

Scope of delivery: Fully assembled

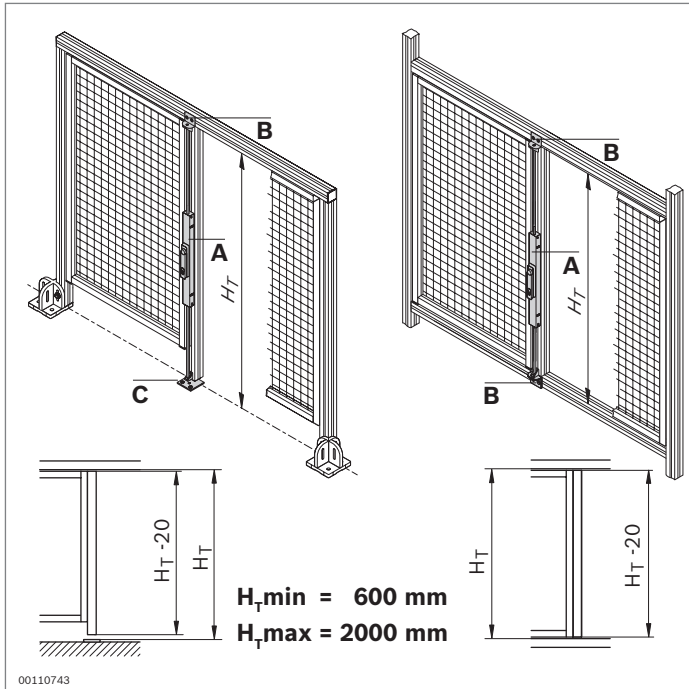
#### Frame profile 30x30 WG40

Protective frame	HR (mm)	B (mm)	No.
Protective frame, galvanized	1800	750	<b>3 842 554 283</b>
Protective frame <sup>1)</sup> , galvanized	1800	1000	<b>3 842 554 281</b>

<sup>1)</sup> horizontally divided

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

Scope of delivery: Fully assembled



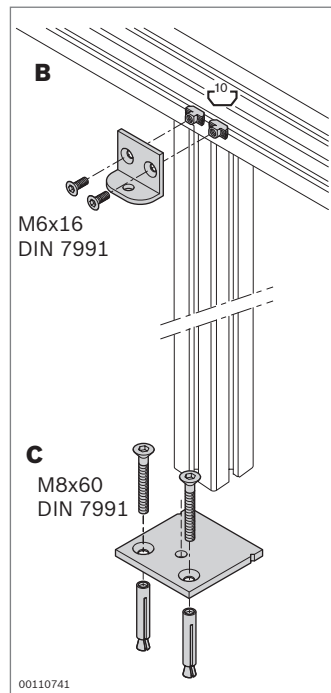
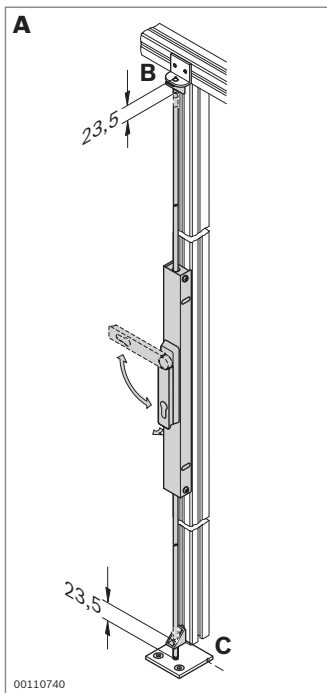
### Lock mechanism for double door



- ▶ 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
<b>A</b>	<b>3 842 525 780</b>	2xFS1, 2xFS2, 4xFS3

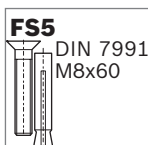
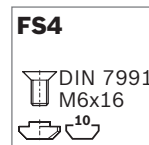
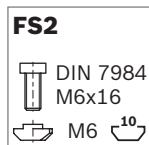
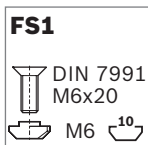
Material: Housing: Aluminum  
Door handle: PA; black  
Lock bolt: Steel; zinc-plated  
Lock bolt guide bracket: Diecast zinc  
Scope of delivery: Lock mechanism for double door, incl. fastening material (FS)

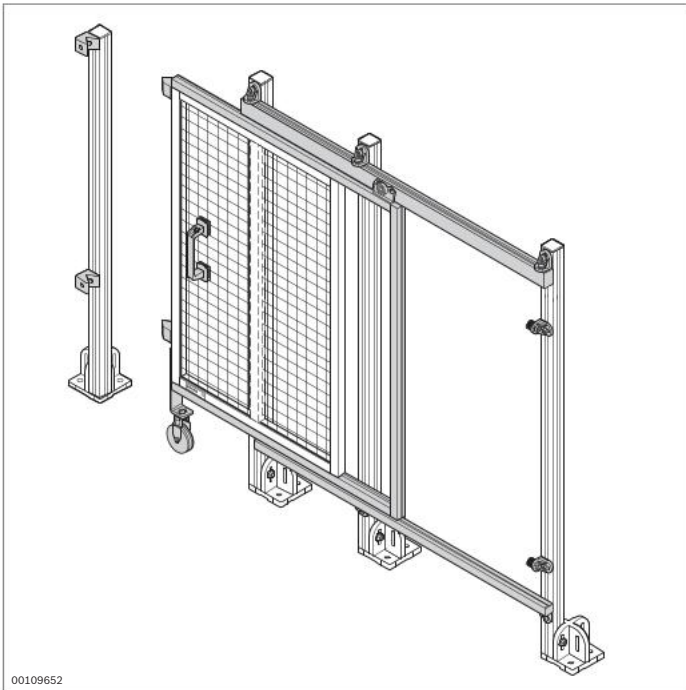
Lock bracket	No.	FS
<b>B</b>	<b>3 842 526 786</b>	2xFS4

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

Base plate	No.	FS
<b>C</b>	<b>3 842 526 787</b>	2xFS5

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



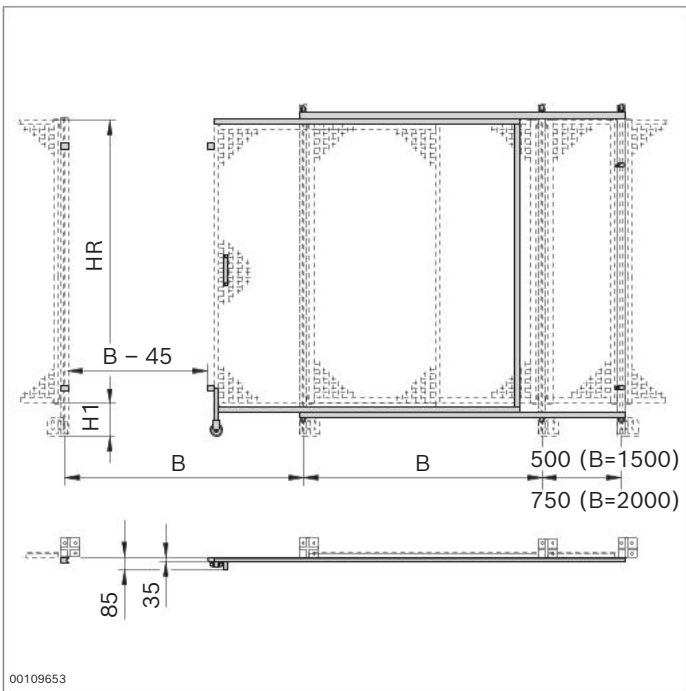


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### EcoSafe assembly kit for sliding door without superstructure

- ▶ 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

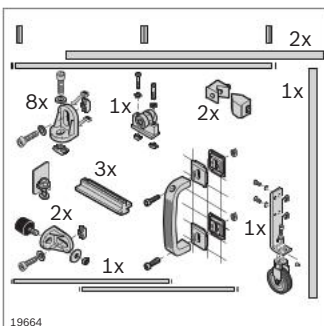
Accessories, optional:  
Door lock (p. 8-12/8-14)



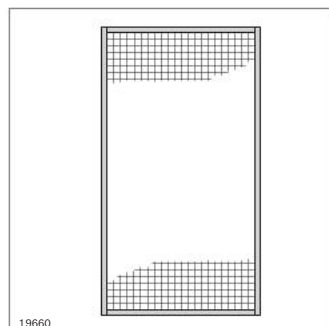
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Assembly kit for sliding door without superstructure	HR (mm)	B (mm)	No.
	1800	1500	<b>3 842 524 165</b>
	1800	2000	<b>3 842 524 166</b>

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



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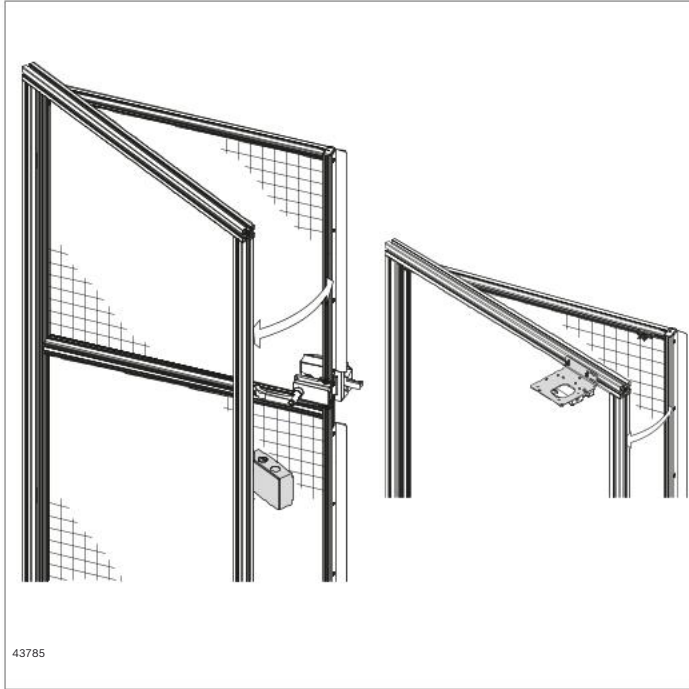
### Selection of suitable protective frames

#### Frame profile 30x30 WG40

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

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

Scope of delivery: Fully assembled

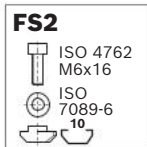
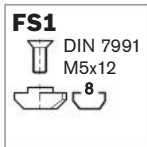


43785

## Attachment kits for safety switches



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

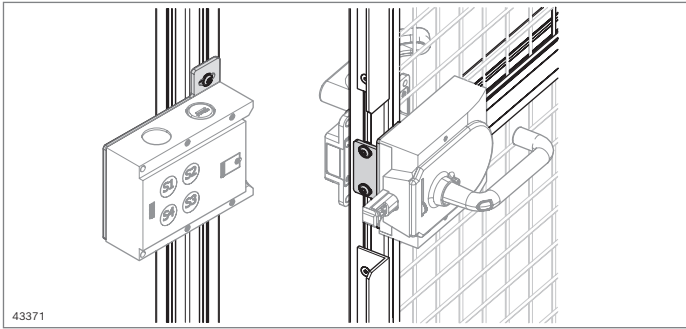


Attachment kit for safety switch		No.	FS
For safety switch	For actuator		
Euchner NZ 1 VZ...	024298; 024299	<b>3 842 522 475*</b>	2xFS1, 2xFS2
Euchner NZ 2 VZ...	024298; 024299		
Euchner NZ 1 VS...	024298; 024299		
Euchner NZ 2 VS...	024298; 024299		
Schmersal AZ15,...	AZ15/16-B2-1747		
Schmersal AZ16,...	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	<b>3 842 522 476**</b>	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	<b>3 842 522 477**</b>	2xFS1, 2xFS2

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

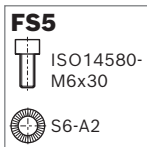
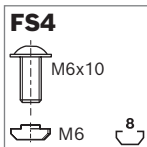
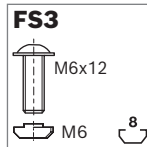
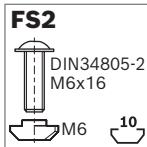
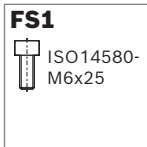
Material: Steel; zinc-plated

Scope of delivery: Incl. adapter plate, bracket, incl. fastening material (FS)



43371

- ▶ 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

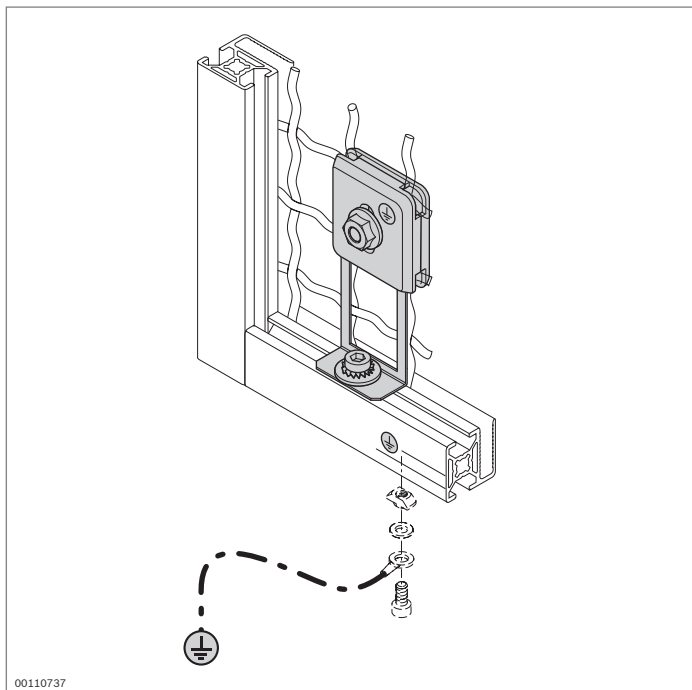


Attachment kit Safety Switch PG T4	Slot	ESD No.	FS
	10/8	<b>3 842 567 404</b>	2xFS1 2xFS2 2xFS3 2xFS4 2xFS5

Material: Steel, galvanized

Scope of delivery: Incl. fastening material (FS)

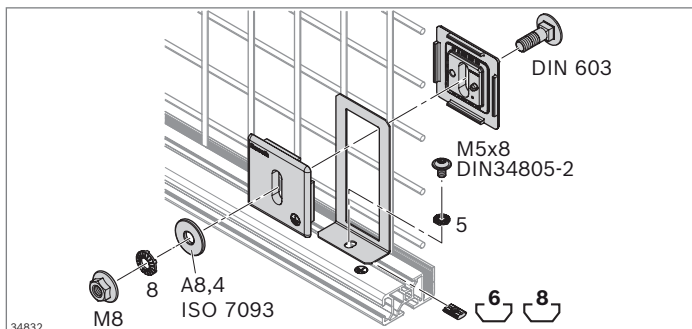
# Accessories



## Ground terminal



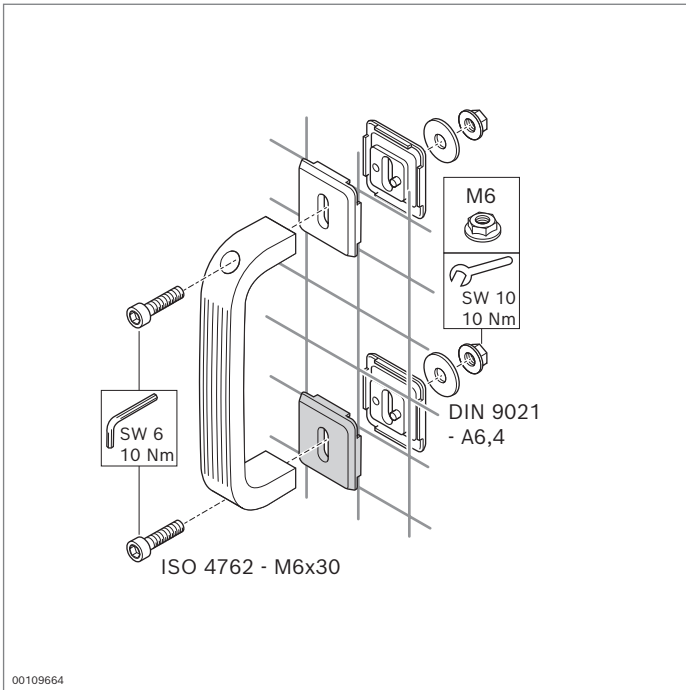
- ▶ Grounding element for making an electrically conductive connection between WG40 woven wire grille or 40x40x3.8 spot-weld wire grille and protective frame
- ▶ Guarantees safe conduction of short-circuit currents up to a rated current of 63 A
- ▶ For frame profiles 30x30WG and 22.5x45



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

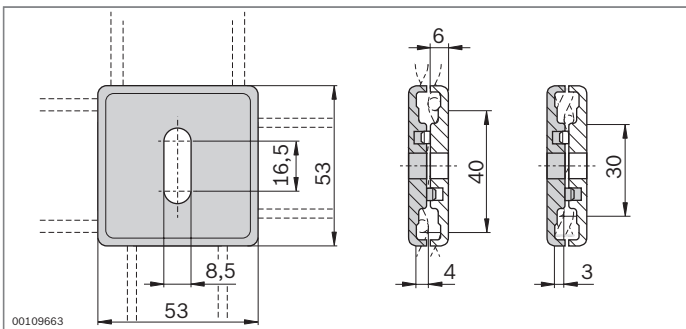


## Clamping element

- ▶ 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.

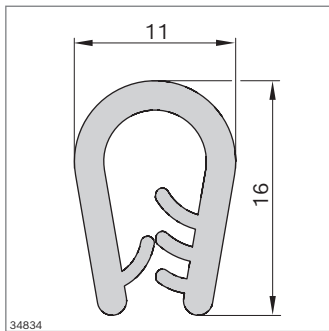
20 **3 842 555 178**

Material: PA66; signal gray (RAL 7004)



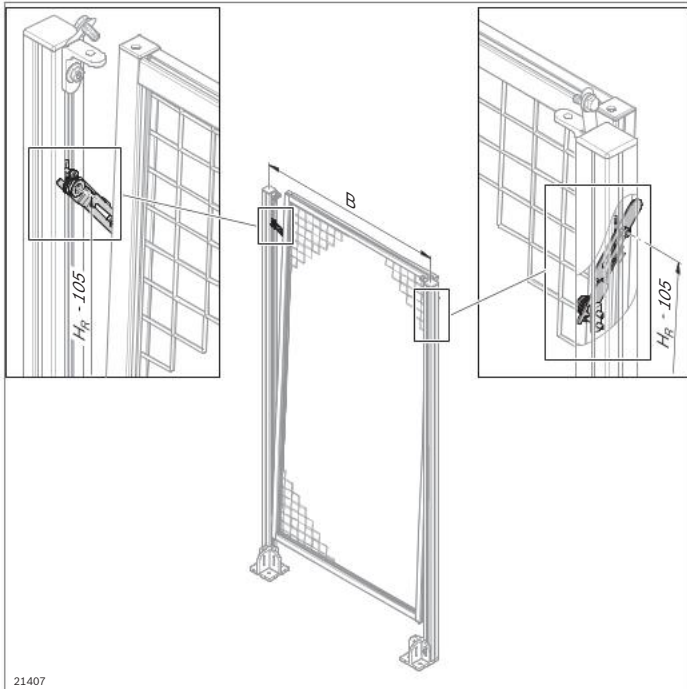
### Edge protector

- ▶ 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	<b>3 842 567 937</b>

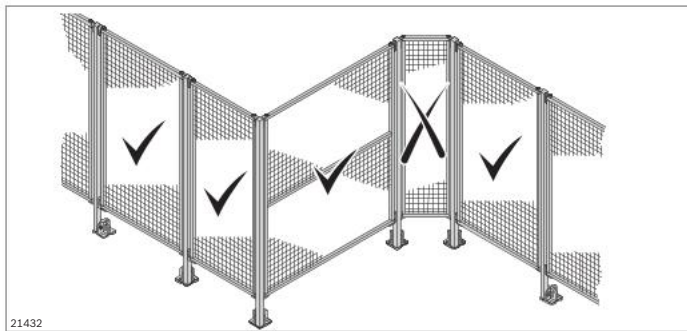
Material: PVC with metal clamp band; black



21407

### Tilt lever

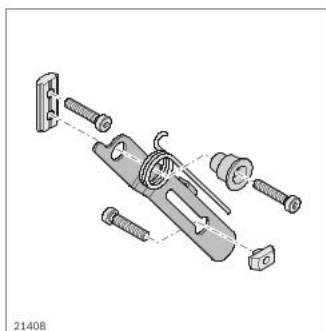
- ▶ For compliance with the requirement in Machinery Directive 2006/42/EC relating to the detaching of protective frames
  - The long-arm spring is designed so that it tilts the protective frame outwards, making it clear that the protective frame is detached
  - Protective frame cannot fall out
- ▶ Easily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



21432

Possible installation situation:

- ▶ Not suitable for installing the protective frame across a corner



21408

#### FS1

DIN 7984  
M5x20

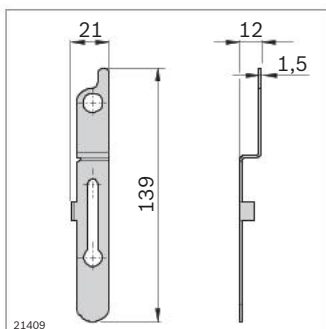
#### FS2

DIN 7984  
M5x20

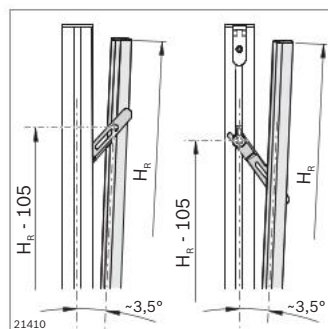
Tilt lever	No.	FS
	<b>3 842 546 560</b>	FS1, FS2

Material: Holding plate: Stainless steel  
 Spacer: Aluminum  
 Long-arm spring: Spring steel

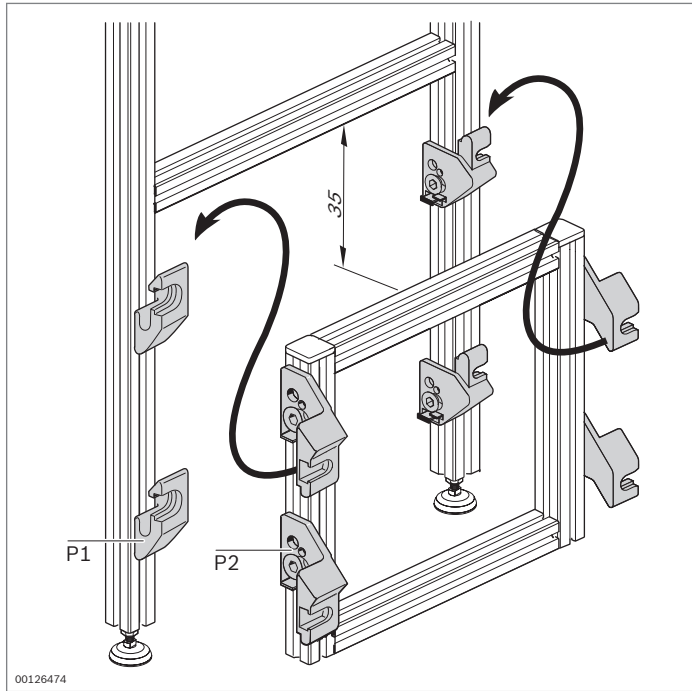
Scope of delivery: Holding plate, spacer, long-arm spring, fastening material (FS)



21409



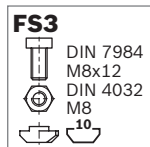
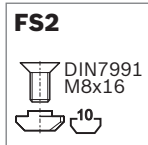
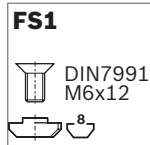
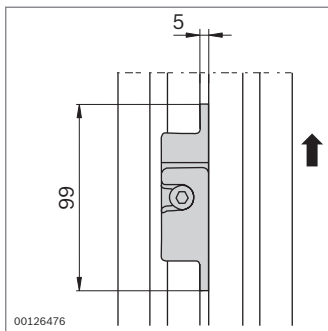
21410



## Suspension piece for frames

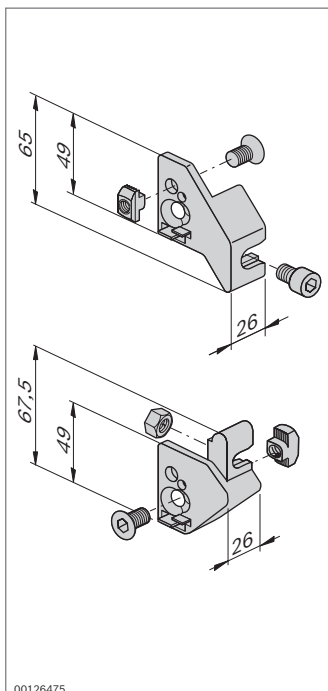


- ▶ Very quick fitting and removal of pre-assembled frames in prepared supporting structures
- ▶ Protection against unintentional lifting out due to both parts of the suspension piece being screwed in
- ▶ Notes on compliance with the Machinery Directive 2006/42/EC: Please note that fastening parts may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



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

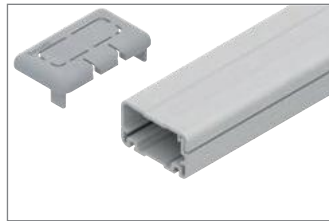
Material: Diecast zinc  
 Scope of delivery: Four suspension pieces,  
 incl. fastening material (FS)



# Installation elements



Cable duct, plastic  
(p. 11-2)



Cable duct universal  
(see 11-3)



Cable duct AL (p. 11-5)



Cable bracket (p. 11-11)



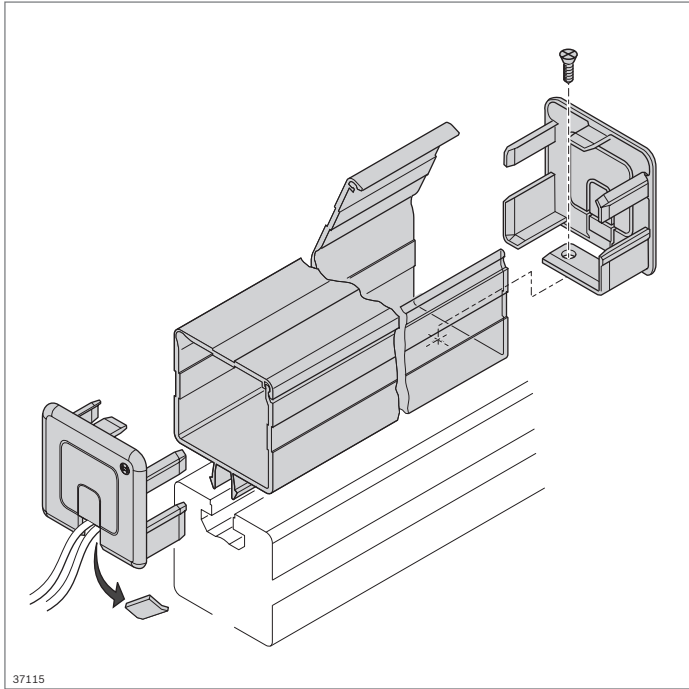
Cable bracket loop  
(p. 11-12)



Quick-lock (p. 11-13)

Electrical leads must be laid neatly. This is because electrical faults can only be easily located and rectified if the installation has been carried out in a clear and orderly manner.

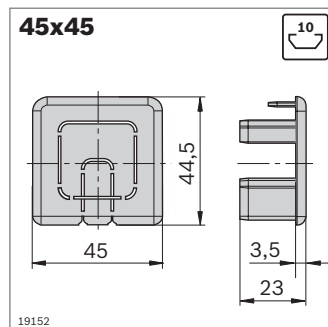
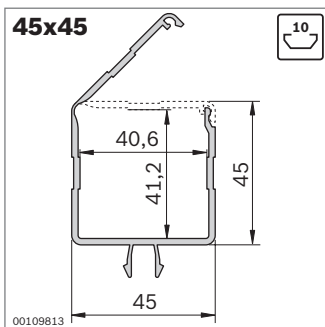
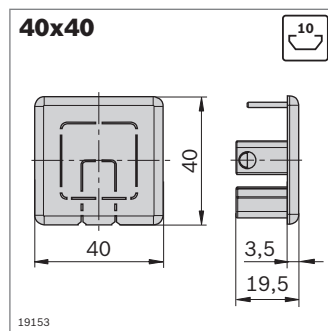
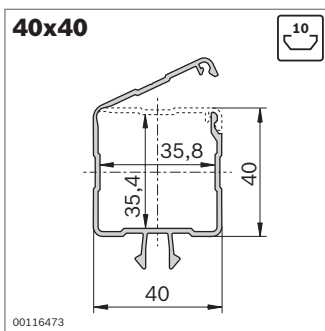
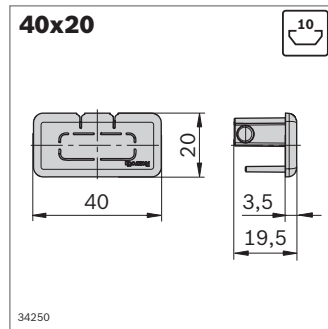
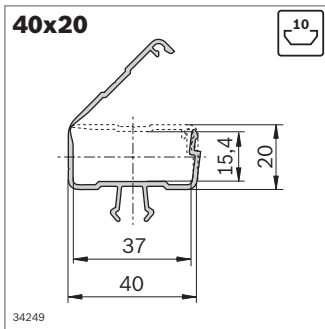
Cable ducts and cable brackets are therefore important elements for maintenance-friendly electrical installation on all types of constructions made using the aluminum profile toolkit.



## Cable duct, plastic



- ▶ Cable duct for routing electrical lines
- ▶ Captive cover
- ▶ Very easy to access
- ▶ Large usable volume
- ▶ Simple, fast assembly – just clips into the 10 mm slot
- ▶ Cover cap for sealing the cable duct with pre-punched holes for running cables through
- ▶ VDE certified
- ▶ An ESD-conductive connection made of plastic between the profile and the cable duct must be ensured by a suitable design solution, e.g. screw



	L (mm)	Color	ESD	No.
<b>Cable duct 40x20</b>	2000	Signal gray		1 <b>3 842 557 443</b>
<b>Cover cap 40x20</b>		Signal gray		10 <b>3 842 557 444</b>
<b>Cable duct 40x20</b>	2000	Black	⚡	1 <b>3 842 555 670</b>
<b>Cover cap 40x20</b>		Black	⚡	10 <b>3 842 555 671</b>

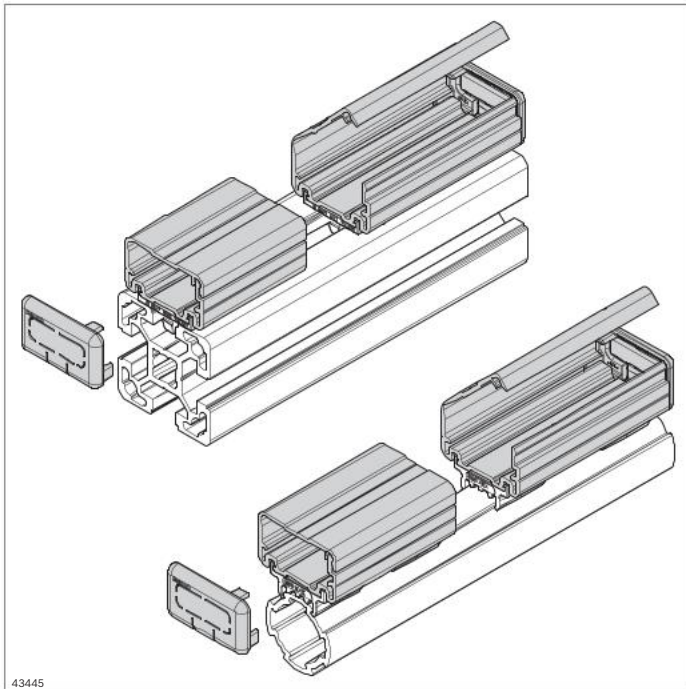
Material: Cable duct: PVC  
Cover cap: PP  
Scope of delivery: Cover cap incl. fastening screws

	L (mm)	Color	ESD	No.
<b>Cable duct 40x40</b>	2000	Signal gray		1 <b>3 842 549 894</b>
<b>Cover cap 40x40</b>		Signal gray		10 <b>3 842 551 004</b>
<b>Cable duct 40x40</b>	2000	Black	⚡	1 <b>3 842 549 895</b>
<b>Cover cap 40x40</b>		Black	⚡	10 <b>3 842 551 005</b>

Material: Cable duct: PVC  
Cover cap: PP  
Scope of delivery: Cover cap incl. fastening screws

	L (mm)	Color	ESD	No.
<b>Cable duct 45x45</b>	2000	Signal gray		1 <b>3 842 549 896</b>
<b>Cover cap 45x45</b>		Signal gray		10 <b>3 842 551 006</b>
<b>Cable duct 45x45</b>	2000	Black	⚡	1 <b>3 842 549 897</b>
<b>Cover cap 45x45</b>		Black	⚡	10 <b>3 842 551 007</b>

Material: Cable duct: PVC  
Cover cap: PP  
Scope of delivery: Cover cap incl. fastening screws

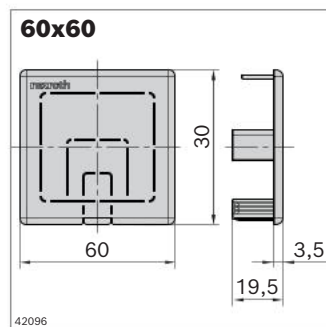
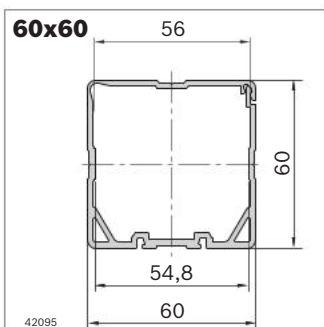
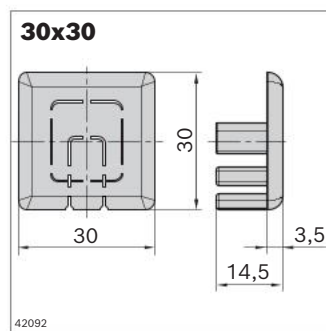
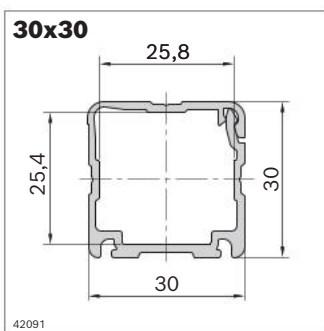
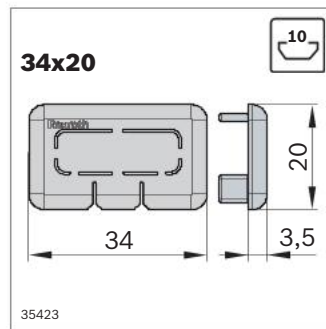
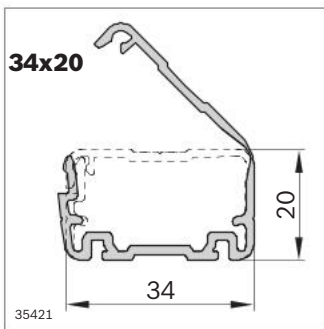


43445

### Cable duct, plastic, universal



- ▶ Cable duct for laying lines
- ▶ Captive cover
- ▶ Simple, fast assembly by clicking using assembly base at strut profiles with 8 mm and 10 mm groove or D28L round tube
- ▶ Cover cap for sealing the cable duct with pre-punched holes for running cables through
- ▶ VDE certified\*



	L (mm)	Color	ESD	No.
<b>Cable duct 34x20</b>	2000	Signal gray		<b>3 842 559 336</b>
<b>Cover cap 34x20</b>		Signal gray		<b>10 3 842 559 340</b>
<b>Cable duct 34x20</b>	2000	Black	⚡	<b>1 3 842 559 335</b>
<b>Cover cap 34x20</b>		Black	⚡	<b>10 3 842 559 339</b>

Material: Cable duct: PVC  
Cover cap: PP

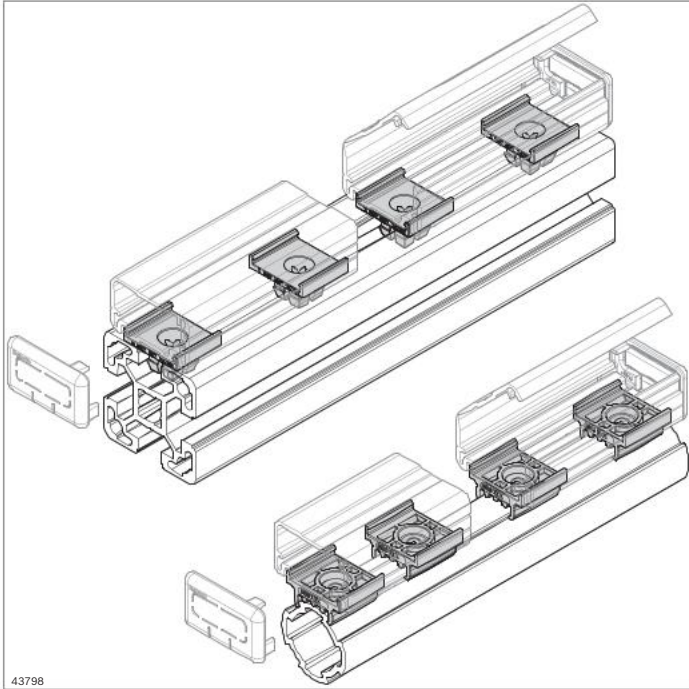
\* Cable duct 34x20 not VDE-certified

	L (mm)	Color	ESD	No.
<b>Cable duct 30x30</b>	2000	Signal gray		<b>1 3 842 562 096</b>
<b>Cover cap 30x30</b>		Signal gray		<b>10 3 842 562 100</b>
<b>Cable duct 30x30</b>	2000	Black	⚡	<b>1 3 842 562 095</b>
<b>Cover cap 30x30</b>		Black	⚡	<b>10 3 842 562 099</b>

Material: Cable duct: PVC  
Cover cap: PP

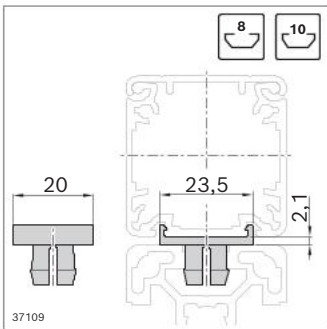
	L (mm)	Color	ESD	No.
<b>Cable duct 60x60</b>	2000	Signal gray		<b>1 3 842 562 098</b>
<b>Cover cap 60x60</b>		Signal gray		<b>10 3 842 562 102</b>
<b>Cable duct 60x60</b>	2000	Black	⚡	<b>1 3 842 562 097</b>
<b>Cover cap 60x60</b>		Black	⚡	<b>10 3 842 562 101</b>

Material: Cable duct: PVC  
Cover cap: PP



### Mounting base

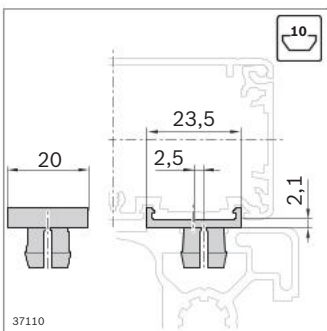
- ▶ For machining-free mounting of the cable duct on the support profile
- ▶ For “Universal” and “Aluminum” cable ducts
- ▶ Insulates the cable duct from the support profile



- ▶ “Symmetrical mounting base” design for central installation of the cable duct on profiles

Mounting base	Slot	Color	ESD	No.
Symmetrical	8	Signal gray		10 <b>3 842 562 121</b>
	8	Black	⚡	10 <b>3 842 564 725</b>
	10	Signal gray		10 <b>3 842 552 247</b>
	10	Black	⚡	10 <b>3 842 564 726</b>

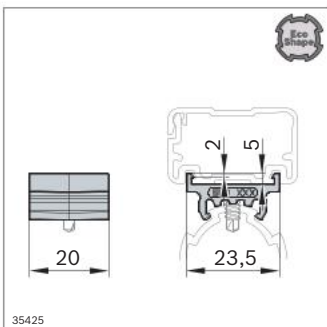
Material: PA



- ▶ “Symmetrical mounting base” design for central mounting on profiles with multiple slots on the mounting side and 45 mm modular dimension

Mounting base	Slot	Color	ESD	No.
Asymmetrical	10	Signal gray		10 <b>3 842 552 248</b>
	10	Black	⚡	10 <b>3 842 564 727</b>

Material: PA

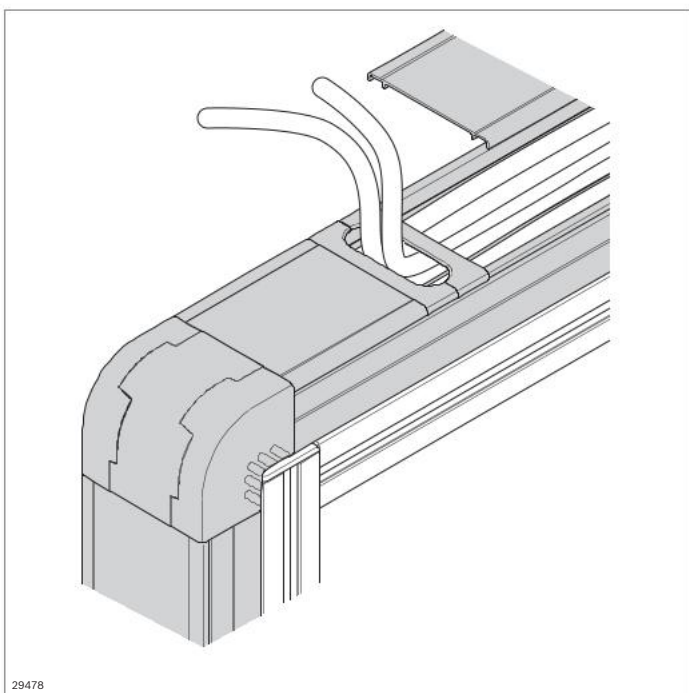
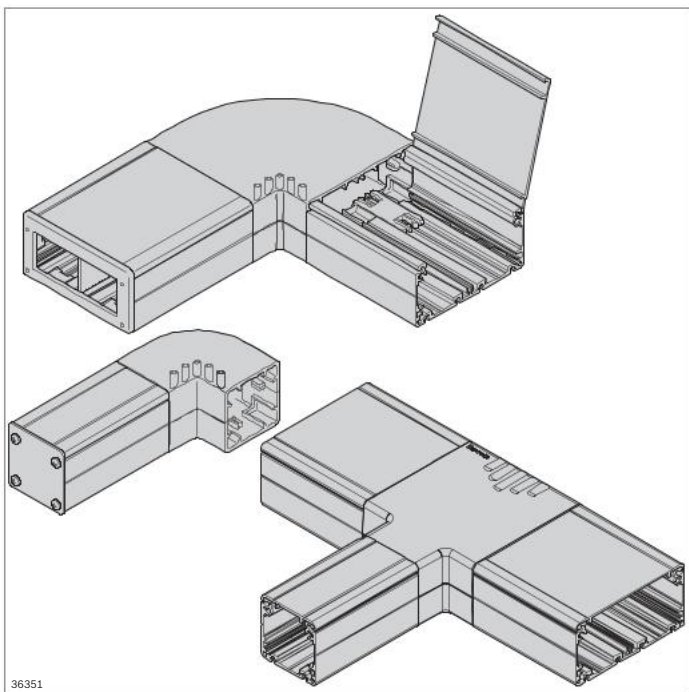


- ▶ Additional stabilization of D28L mounting bases and establishing an ESD-compliant connection between profile and base can be realized using self-tapping screw (3 842 552 267)

Recommended accessories: Self-tapping screw

Mounting base	Color	ESD	No.
D28L	Signal gray		10 <b>3 842 559 338</b>
	Black	⚡	10 <b>3 842 559 337</b>

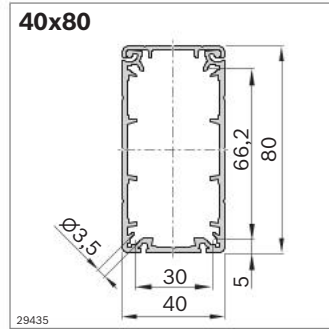
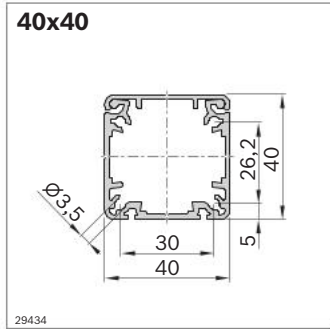
Material: PA



## Aluminum cable duct



- ▶ Can be either clipped or screwed onto the support profile
- ▶ Sizes 40x40, 40x80, 80x40, 80x80
- ▶ Drilling aids for easy machining
- ▶ Dovetail attachment option
- ▶ Suitable for installing on profiles with modular dimensions of 40 and 45 mm
- ▶ Interior can be divided for routing different cable types (size 80x40 and 80x80)
- ▶ For connection of cable ducts via T-piece (p. 11-9)
- ▶ ESD-conductive
- ▶ High-quality, attractive external finish thanks to anodized duct surface and cover plate
- ▶ Edge protector for protecting the cables/lines from being damaged on rough edges
- ▶ PG screw fastenings possible in the side wall and cover plate (mechanical finishing)
- ▶ Fitting of sockets, switches etc. possible (mechanical finishing)
- ▶ Screw holes for secure fastening of the cover plate
- ▶ Cable duct cover can be screwed to the base body
- ▶ VDE certified
- ▶ Compliant with DIN EN 50085-1 and 50085-2-1 standards



### Aluminum cable duct

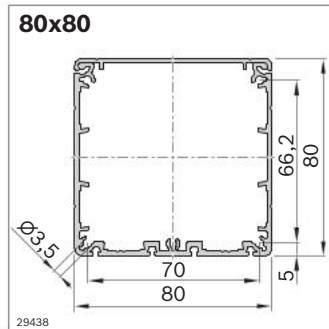
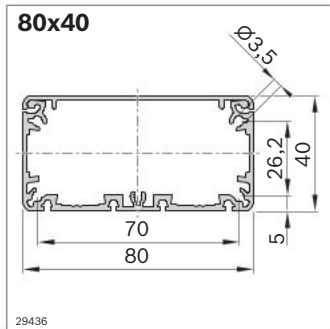
- ▶ Cable duct pre-assembled (cover and base body)
- ▶ Usable length 3000 mm (delivered in 3100 mm lengths)
- ▶ Cover can be secured with a self-tapping screw

Required accessories:

- ▶ Mounting base for clipping in (p. 11-4)
- ▶ Mounting kit for screw fastening (p. 11-6)

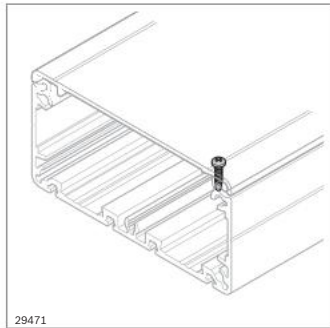
Accessories, optional:

Self-tapping screw **3 842 552 267**



Cable duct with AL cover plate		ESD	L (mm)	No.
1 pc	<b>40x40</b>	⚡	100 ... 3000	<b>3 842 996 356/L</b>
12 pcs	<b>40x40</b>	⚡	3000	<b>3 842 552 268</b>
1 pc	<b>40x80</b>	⚡	100 ... 3000	<b>3 842 996 357/L</b>
12 pcs	<b>40x80</b>	⚡	3000	<b>3 842 552 270</b>
1 pc	<b>80x40</b>	⚡	100 ... 3000	<b>3 842 996 358/L</b>
12 pcs	<b>80x40</b>	⚡	3000	<b>3 842 552 273</b>
1 pc	<b>80x80</b>	⚡	100 ... 3000	<b>3 842 996 359/L</b>
6 pcs	<b>80x80</b>	⚡	3000	<b>3 842 552 275</b>

Material: Aluminum; anodized

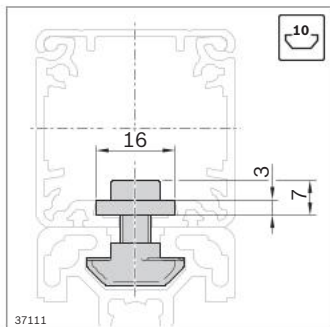


### Self-tapping screw

- ▶ For securing the cover plate on the cable duct
- ▶ Produces conductive connection between the cover plate and cable duct

Self-tapping screw	ESD	No.
<b>Ze. Pi. 3.5x9.5</b>	⚡	10 <b>3 842 552 267</b>

Material: Steel; zinc-plated



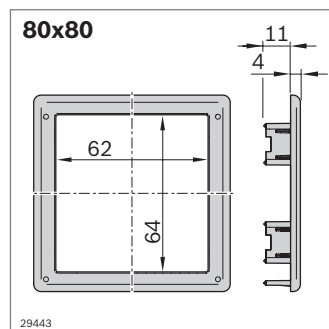
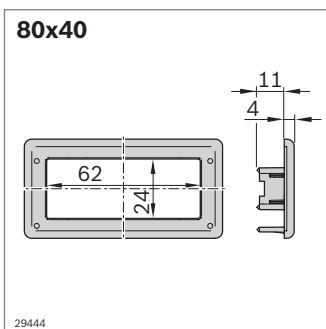
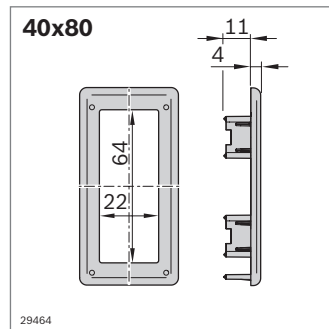
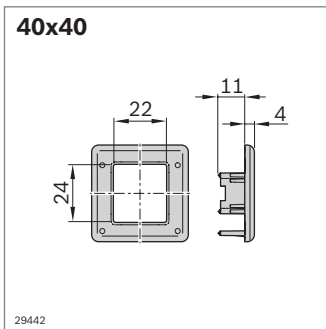
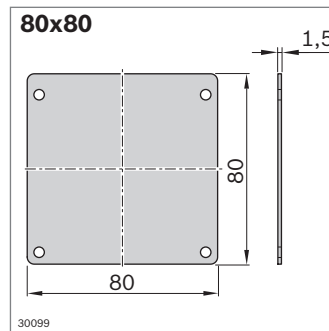
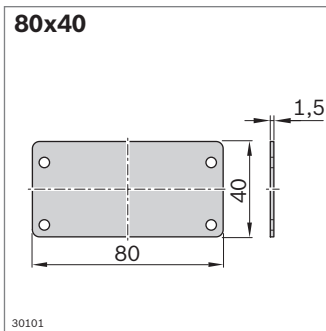
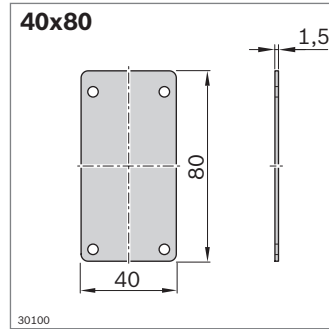
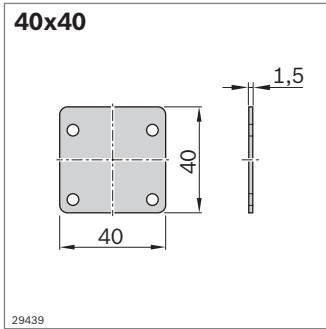
### Mounting kit

- ▶ For screwing the cable duct to the support profile
- ▶ Secure force transmission without deformation of the mounting surface
- ▶ Cable duct has to be drilled (diameter: 6.4 mm)
- ▶ Recommendation: Insert every 500 mm

Mounting kit	ESD	No.
	⚡	10 <b>3 842 548 997</b>

Material: Steel; zinc-plated

Scope of delivery: Insert sheet; T-nut M6, 10 mm slot; screw M6x16



### Cover plate

- ▶ Seals the end face of the cable duct
- ▶ Fastened securely with screws
- ▶ Openings for PG screw fastenings can be provided through mechanical finishing

Cover plate	ESD	No.
40x40	10	3 842 552 249
40x80	10	3 842 552 250
80x40	10	3 842 552 251
80x80	10	3 842 552 252

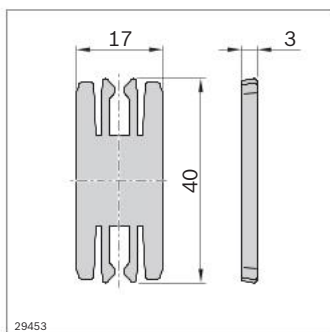
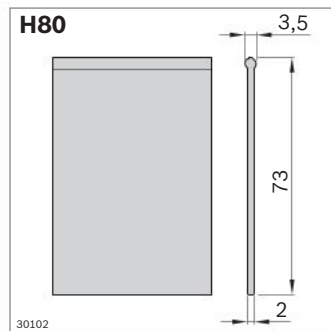
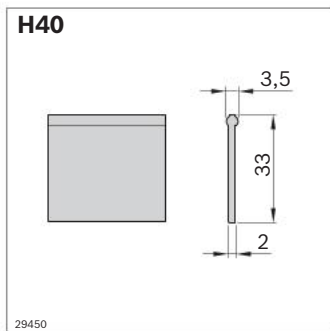
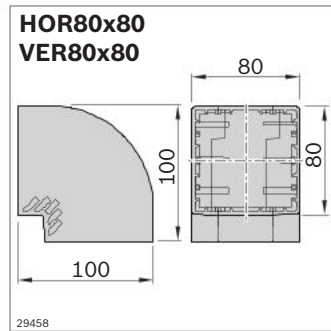
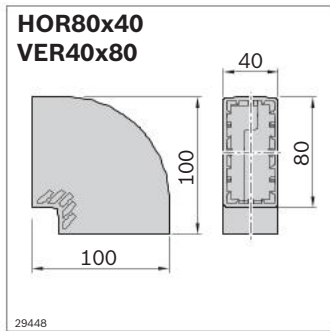
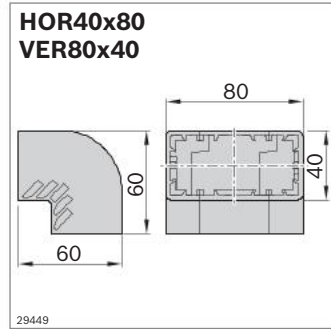
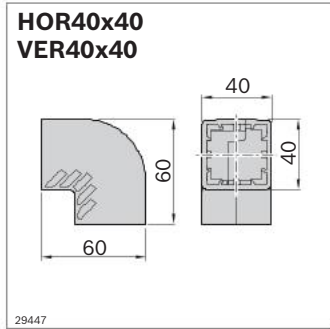
Material: Cover plate: Aluminum; anodized  
 Pressed edges: Aluminum, plain  
 Screw: Steel; zinc-plated  
 Scope of delivery: Cover plate incl. fastening screws

### Edge protector

- ▶ Used to protect the cables if there is an end face cable outlet
- ▶ Can be pushed and also screwed into position
- ▶ Can be used to protect the cable at lateral outlets

Edge protector	No.
40x40	10 3 842 552 253
40x80	10 3 842 552 254
80x40	10 3 842 552 255
80x80	10 3 842 552 256

Material: PP; signal gray RAL 7004



### Curve

- ▶ 90° curve in horizontal and vertical direction
- ▶ Modular design
- ▶ Cable ducts connected together with push-in connection elements
- ▶ Cable ducts can be made conductive by using supplied potential equalizer line

Curve	ESD <sup>*)</sup>	No.
HOR40x40; VER40x40	⚡	1 3 842 552 257
HOR40x80; VER80x40	⚡	1 3 842 552 258
HOR80x40; VER40x80	⚡	1 3 842 552 259
HOR80x80; VER80x80	⚡	1 3 842 552 260

Material: PP; signal gray RAL 7004

Scope of delivery: Curve, connection elements, potential equalizer line

\*) ESD: Plastic has no conductivity. Using a potential equalizer, 2 cable ducts can be connected in a conductive way (s. p. 11-10).

### Dividing strip

- ▶ Divides the cable duct into 2 chambers for carrying different electric cables, e.g. electricity and data cables
- ▶ Push-in installation
- ▶ Bendable, so it can also be used on curves

Dividing strip	No.
H40 L=3000 mm	10 3 842 552 245
H80 L=3000 mm	10 3 842 552 246

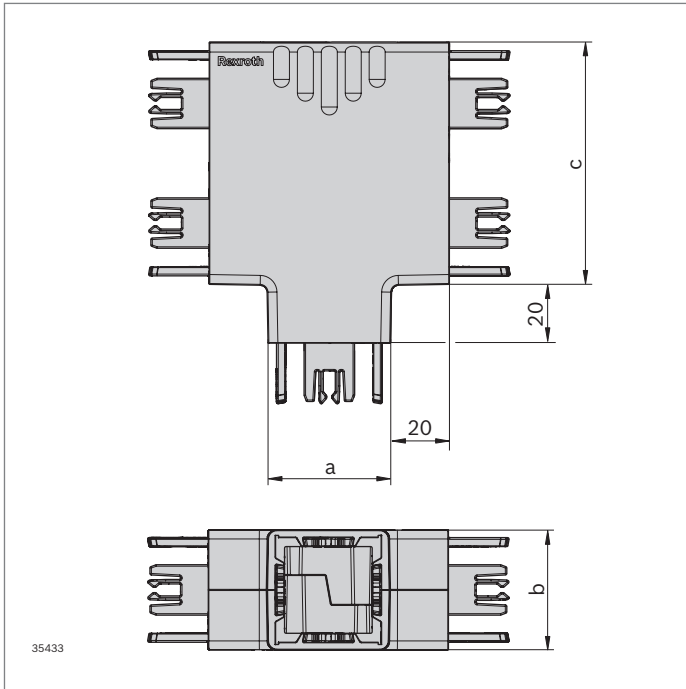
Material: PVC; signal gray RAL 7004

### Connection element

- ▶ Extension of ends of cable ducts
- ▶ For connecting cable duct with curve
- ▶ ESD conductivity of both cable ducts can be established by using an overlapping cover and self-tapping screw (p. 11-6)

Connection element	No.
	10 3 842 552 240

Material: PA; signal gray RAL 7004



### T-piece cable duct

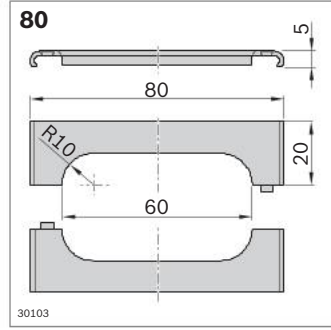
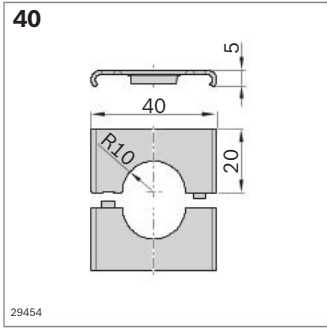
- ▶ Modular design
- ▶ Cable ducts connected together with push-in connection elements
- ▶ Cable ducts can be made conductive by using supplied potential equalizer line
- ▶ VDE certified

T-piece cable duct	a (mm)	b (mm)	c (mm)	ESD <sup>*)</sup>	No.
<b>40x40x40</b>	40	40	40	⚡	<b>3 842 558 644</b>
<b>40x40x80</b>	40	40	80	⚡	<b>3 842 558 646</b>
<b>40x80x40</b>	40	80	40	⚡	<b>3 842 558 648</b>
<b>40x80x80</b>	40	80	80	⚡	<b>3 842 558 650</b>
<b>80x40x40</b>	80	40	40	⚡	<b>3 842 558 651</b>
<b>80x40x80</b>	80	40	80	⚡	<b>3 842 558 652</b>
<b>80x80x40</b>	80	80	40	⚡	<b>3 842 558 653</b>
<b>80x80x80</b>	80	80	80	⚡	<b>3 842 558 654</b>

Material: PP; signal gray RAL 7004

Scope of delivery: T-piece, connection elements, potential equalizer line

ESD\*: Plastic has no conductivity. Using a potential equalizer, cable ducts can be connected in a conductive way

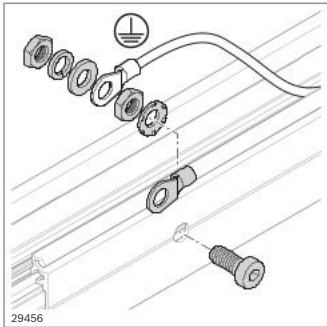


### Cable hole

- For passing cables through within the cover

Cable hole	No.
40	10 3 842 553 973
80	10 3 842 553 974

Material: PP; signal gray RAL 7004



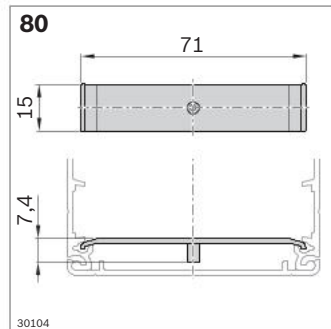
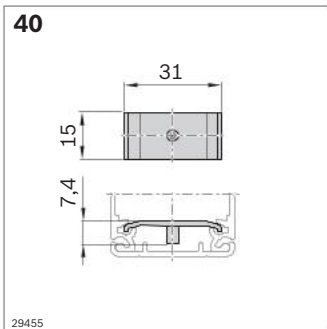
### Potential equalizer

- DIN VDE 0100-410 compliant
- For connecting the cable duct to an earthed protective conductor

Potential equalizer	No.
10	10 3 842 552 263

Material: Steel; zinc-plated

Scope of delivery: Grounding wire not available

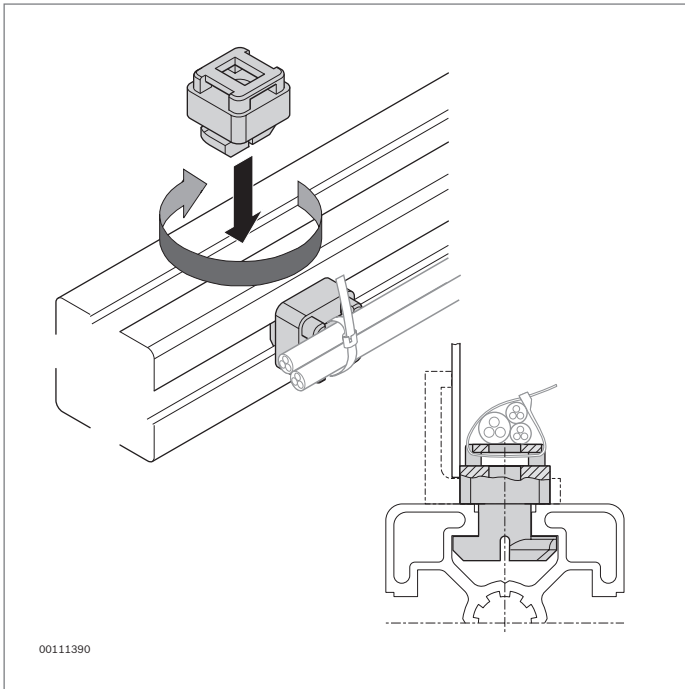


### Cable holder

- For fixing the cable in the cable duct in the case of overhead mounting
- Recommendation: Insert every 200 mm

Cable holder	No.
40	10 3 842 552 265
80	10 3 842 552 266

Material: PA6; signal gray RAL 7004



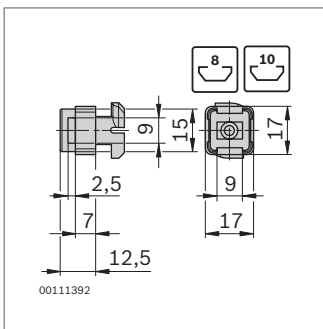
## Cable bracket



- ▶ Cable bracket for fastening individual cables with cable ties
- ▶ For use behind panels or screens
- ▶ Dimensioned to match the Variofix block for slot 10 mm

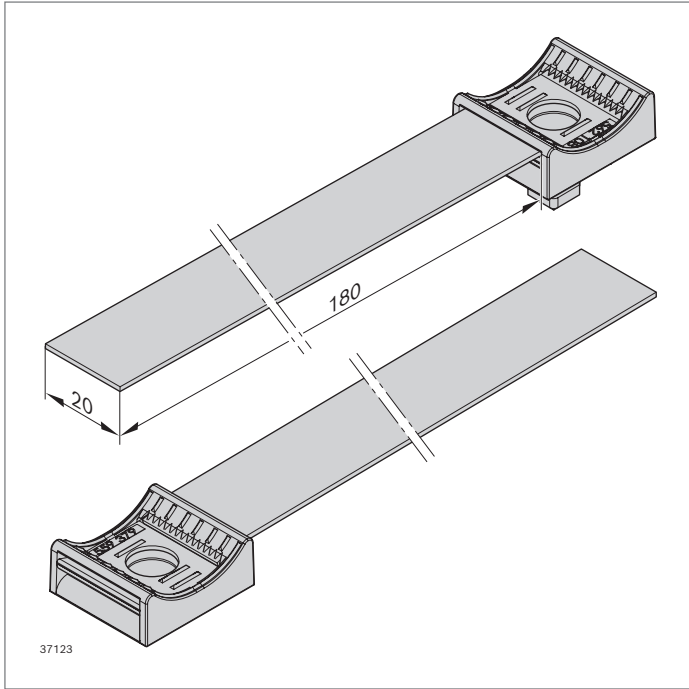
Required accessories:

Cable ties



Cable bracket	Slot	No.
	8	100 3 842 555 182
	10	100 3 842 555 180

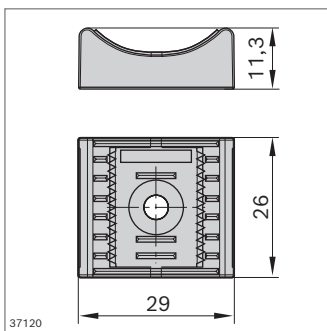
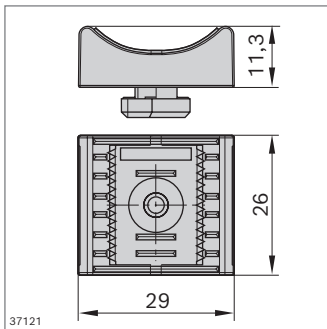
Material: PA; signal gray RAL 7004



## Cable bracket loop



- ▶ Cable bracket with Velcro strap for gentle guidance of cables and hoses
- ▶ Cable brackets with foot can be screwed into the slot without tools. Installation parallel or vertical to the slot possible.
- ▶ Cable bracket loop flat for assembly on panel elements or to EcoShape adapter (3 842 562 115)
- ▶ Clamping area: 5 ... 35 mm
- ▶ Length: L = 180 mm



Cable bracket loop	Slot	No.
	8	10 <b>3 842 559 381</b>
	10	10 <b>3 842 559 382</b>

Material: Cable bracket: PP (conductive), black, UL certified  
Velcro strap: PP, PA (velour), UL certified

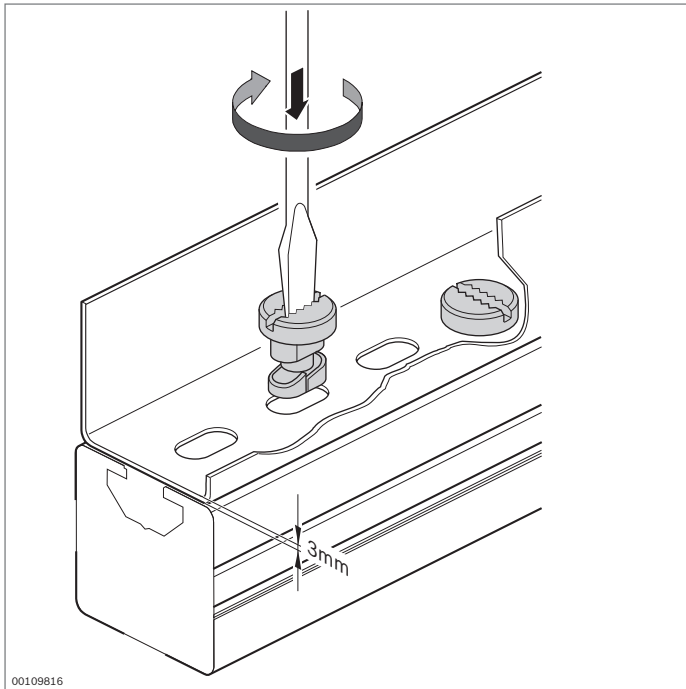
Scope of delivery: Incl. Velcro strap, pre-assembled

- ▶ Accessories: Adapter D28L; countersunk screw

Cable bracket loop flat	No.
	10 <b>3 842 559 380</b>

Material: Cable bracket: PP (conductive), black, UL certified  
Velcro strap: PP, PA (velour), UL certified

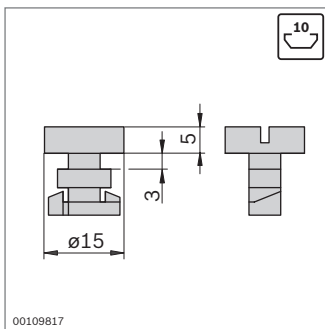
Scope of delivery: Incl. Velcro strap, pre-assembled



## Quick-lock



- Quick-lock for fastening standard commercially available cable ducts



### Quick-lock

 **No.**

100 3 842 146 920

Material: PA; black



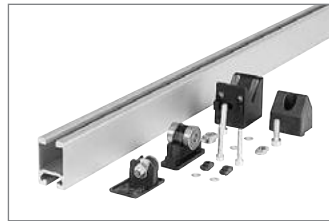
# Elements for manual movement



Slide hangers, snap hooks  
(p. 12-2)



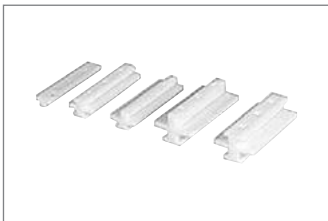
Sliders for panel element  
(p. 12-3)



Components for sliding door  
(p. 12-4)



EcoSlide (p. 12-6)



Sliders for profiles (p. 12-13)



Support wheels (p. 12-17)



Rack, pinion (p. 12-18)



Conveyor track Lean  
(p. 12-19)



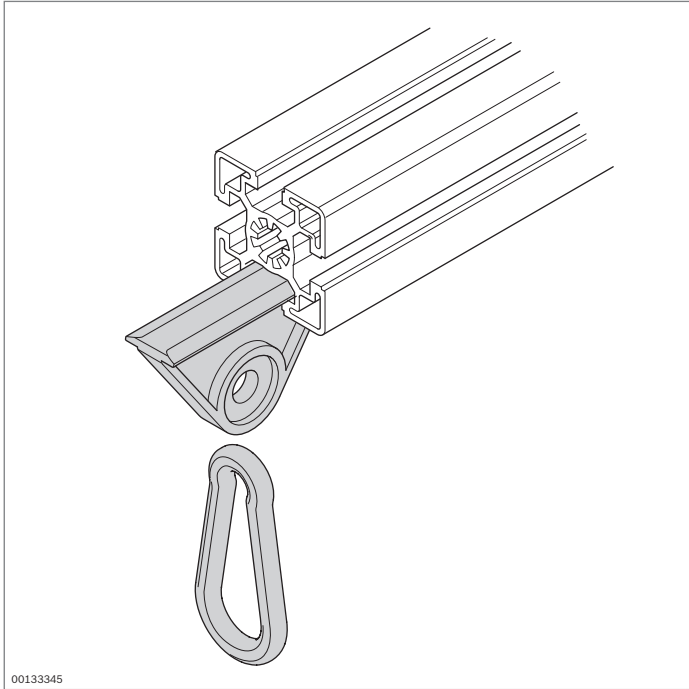
Conveyor track XLean  
(p. 12-24)



Conveyor track EcoFlow  
(p. 12-27)



Profiles for installing conveyor media (p. 12-33)



## Slide hanger Snap hook



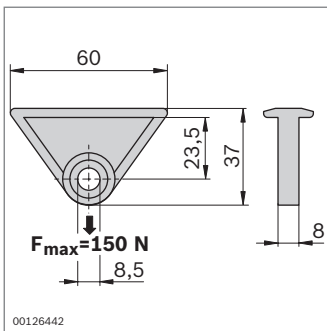
### Slide hanger

- ▶ Slide hanger as an inexpensive solution for sliding tool hangers
- ▶ Maximum load: 150 N
- ▶ Guide in the 10 mm profile slot
- ▶ Sliding block can be used as a stopper

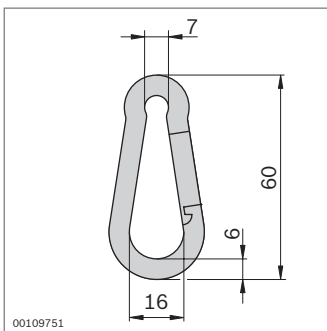
Accessories: Sliding block as a stopper (see p. 3-7)

### Snap hook

- ▶ Snap hook for fastening tools to the slide hanger:
  - Quick and easy to change



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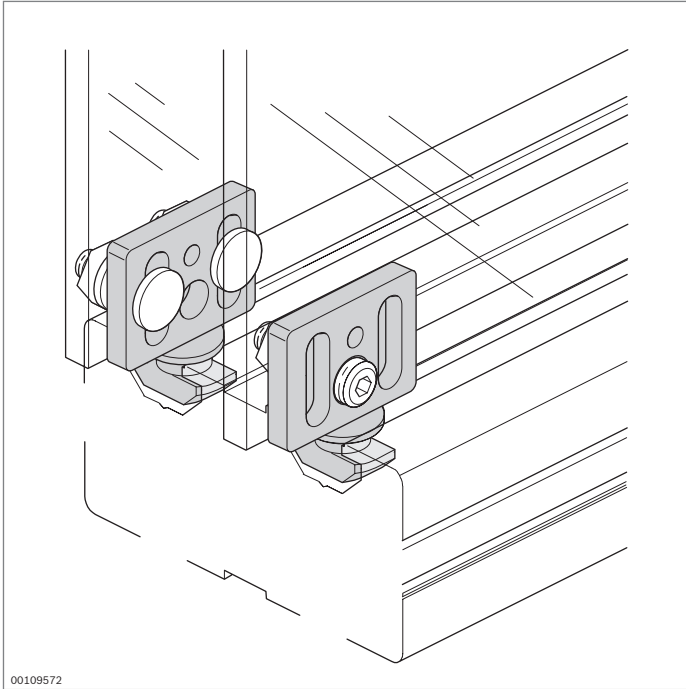
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Slide hanger	No.
	3 842 218 953

Material: POM; natural

Snap hook	No.
	0 842 901 309

Material: Steel; zinc-plated



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## Slider for panel elements



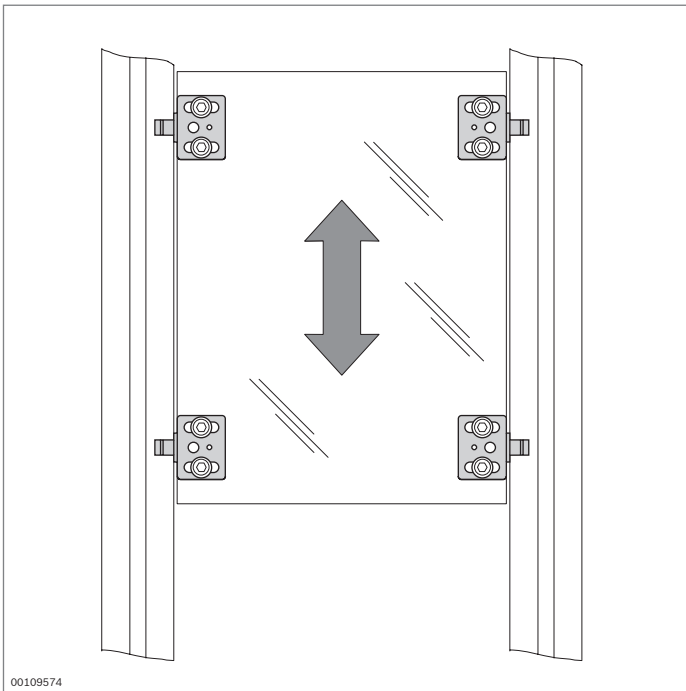
- ▶ For the construction of sliding and lifting doors
- ▶ Good functional reliability
- ▶ For any thickness of the panel element or aluminum profile frame

Required accessories:

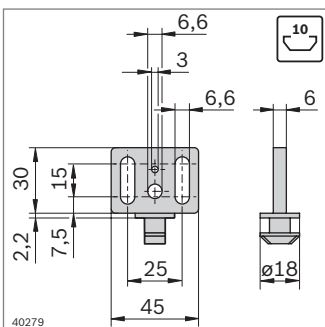
Screws and nuts/sliding blocks for fastening the panel elements

Accessories, optional:

Counterbalance in the case of lifting doors (p. 9-2)

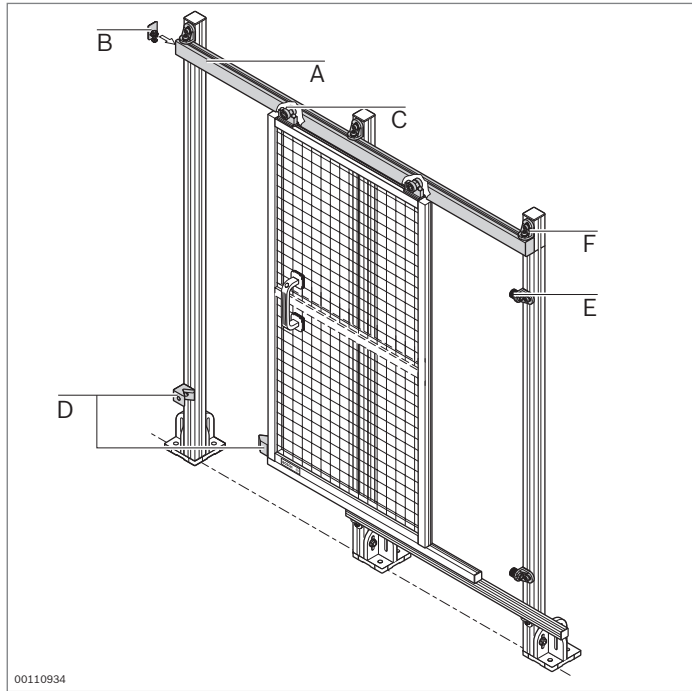


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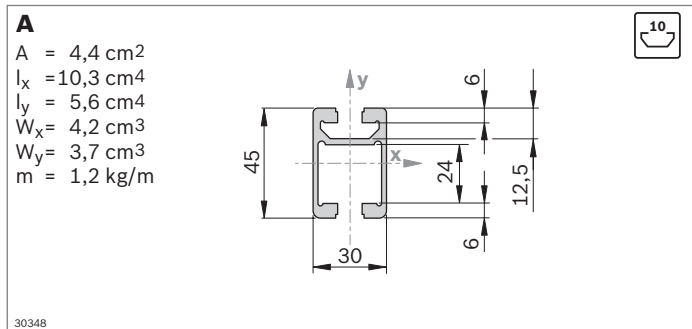
Slider	No.
	10 <b>3 842 564 170</b>
Material:	POM; signal gray RAL 7004



## Components for sliding door



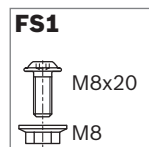
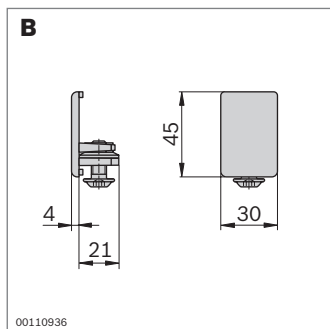
- Components for constructing sliding doors of different dimensions



- Profile rail and trolley for movable mounting of parts, e.g. for use as a screwdriver hanger at work tables or for EcoSafe sliding doors (p. 10-34)

Profile rail 30x45C	L (mm)	No.
1 pc	50 ... 6070	<b>3 842 992 946 / L</b>
1 pc	6070	<b>3 842 558 312</b>
20 pcs	6070	<b>3 842 557 950</b>

Material: Aluminum; anodized

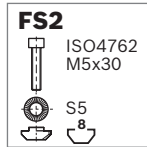
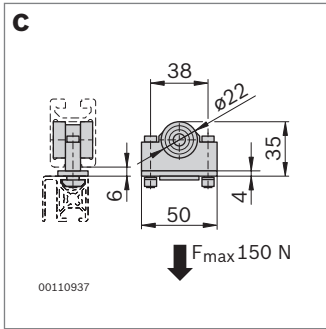


- Profile rail end piece for use for trolley as a cover cap with stop
- With screw protection

End piece 30x45C	Color	ESD	No.	FS
	Signal gray	20	<b>3 842 554 710</b>	FS1
	Black	20	<b>3 842 554 711</b>	FS1

Material: End piece: PA  
Fastening material: Steel; zinc-plated

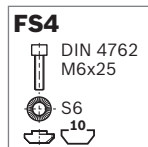
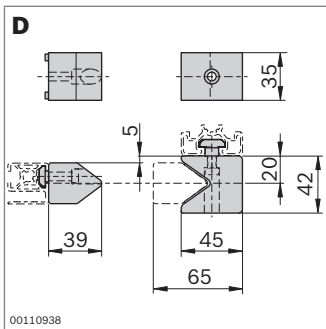
Scope of delivery: Incl. fastening material (FS)



- ▶ Trolley with dust-proof ball bearings for smooth sliding motion
- ▶ For fastening profiles with a 8 mm slot

Trolley	No.	FS
	<b>3 842 524 153</b>	2xFS2

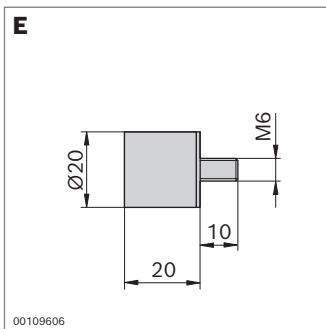
Material: PA; black / steel, zinc-plated  
 Fastening material: Steel; zinc-plated  
 Scope of delivery: Incl. fastening material (FS)



- ▶ Stop kit for damped closing of the sliding door

Stop kit	No.	FS
	<b>3 842 524 490</b>	FS3, FS4

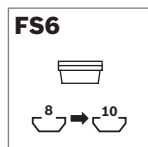
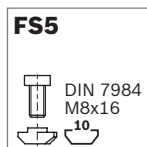
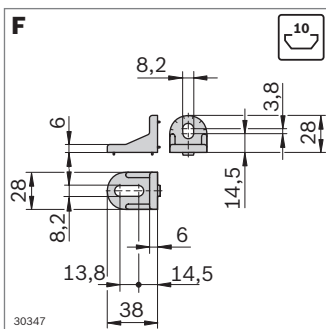
Material: PA; black  
 Fastening material: Steel; zinc-plated  
 Scope of delivery: Incl. fastening material (FS)



- ▶ Bumper for a damped stop

Bumper	No.
	10 <b>3 842 510 462</b>

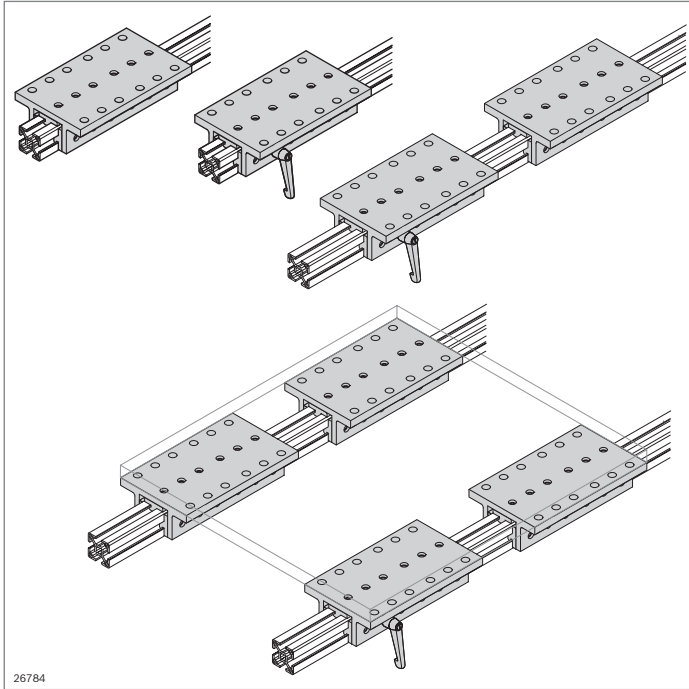
Material: NBR; hardness 55° Shore A  
 Accessories: Bracket set R28x38 for fastening to strut profiles with 10 mm slot



- ▶ Bracket for fastening the profile rail to strut profiles with 10 mm slot

Bracket	Slot	ESD	No.	FS
<b>R28x38 Set (standard)</b>	10 / 10		<b>3 842 521 580</b>	2xFS5, 4xFS6

Material: Diecast zinc  
 Fastening material: Steel; zinc-plated  
 Scope of delivery: Incl. fastening material (FS)

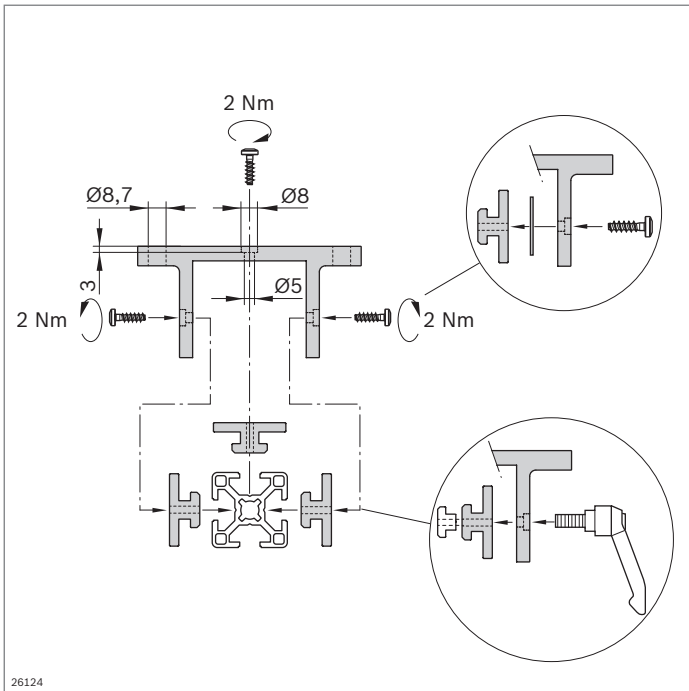


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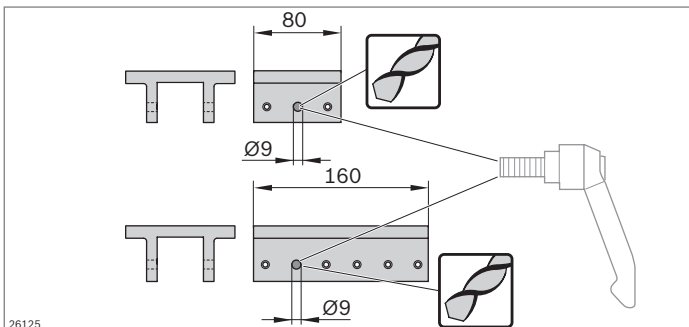
## EcoSlide



- ▶ Economical linear sliding carriage for horizontal applications
- ▶ Runs on sliders for maximal load capacity
- ▶ Slider with low moisture absorption, suitable for rough application conditions
- ▶ Available for profile widths of 30/45/60/90
- ▶ Clamping lever (optional) for arresting in any position
- ▶ Easy to assemble
- ▶ Spacer washer for tolerance adjustment (carriage/profile)



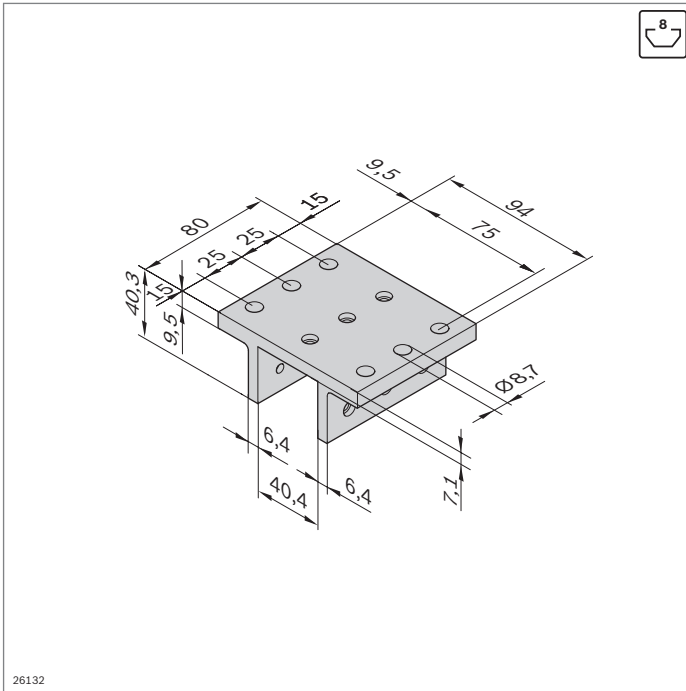
26124



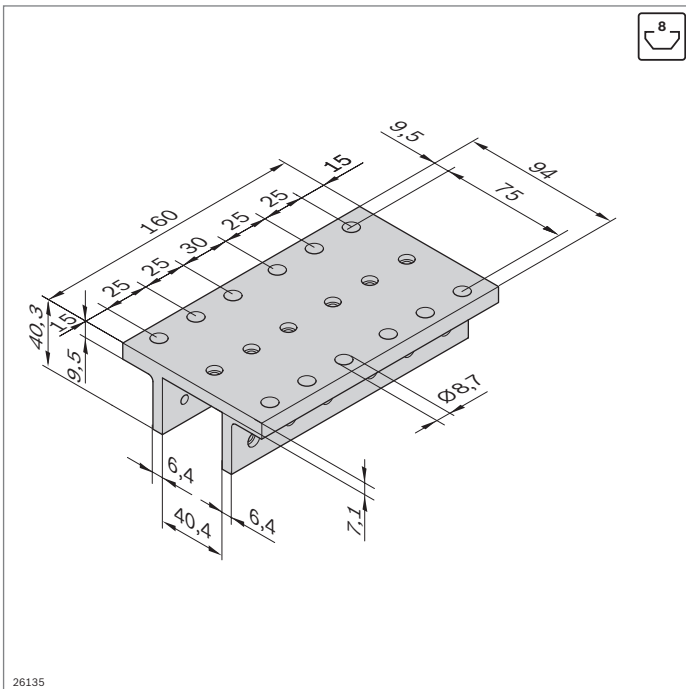
26125

### Machining tip

To install the clamping lever, the corresponding 9 mm hole must be drilled in the trolley.



750 N	325 N	10 Nm	150 Nm



1500 N	750 N	20 Nm	200 Nm

### EcoSlide 30x30x80

- ▶ For use with profile width 30 mm
- ▶ Maximum sliding speed: 12 m/min

Trolley 30x30x80	No.
	1 <b>8 981 535 476</b>

Material: Aluminum; anodized

#### Accessories

	No.		Pcs	Pcs	Page
Slider, slot 8 mm flat	10 <b>3 842 523 212</b>		3	2	12-13
Slider, slot 8 mm flat lockable	1 <b>3 842 552 423</b>		—	1	12-11
Spacer washer Slot 8 mm	4 <b>8 981 535 891</b>		X <sup>1)</sup>	X <sup>1)</sup>	12-11
Screw W1451 - 3.5x14 - 10.9	10 <b>3 842 552 421</b>		9	8	12-12
Clamping lever, 20 mm	1 <b>3 842 516 846</b>		—	1	4-15
Sliding block Slot 8 mm; M8	100 <b>3 842 514 931</b>		—	1	3-7

<sup>1)</sup> If required

### EcoSlide 30x30x160

- ▶ For use with profile width 30 mm
- ▶ Maximum sliding speed: 12 m/min

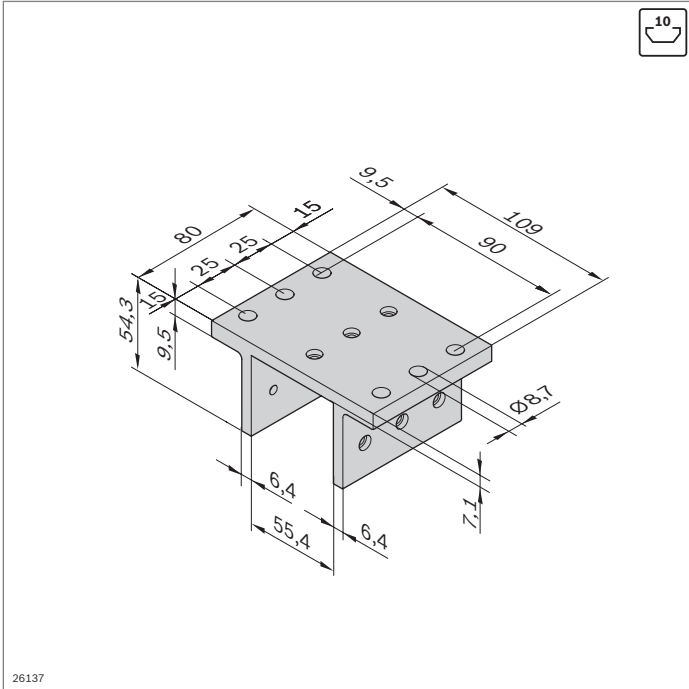
Trolley 30x30x160	No.
	1 <b>8 981 535 477</b>

Material: Aluminum; anodized

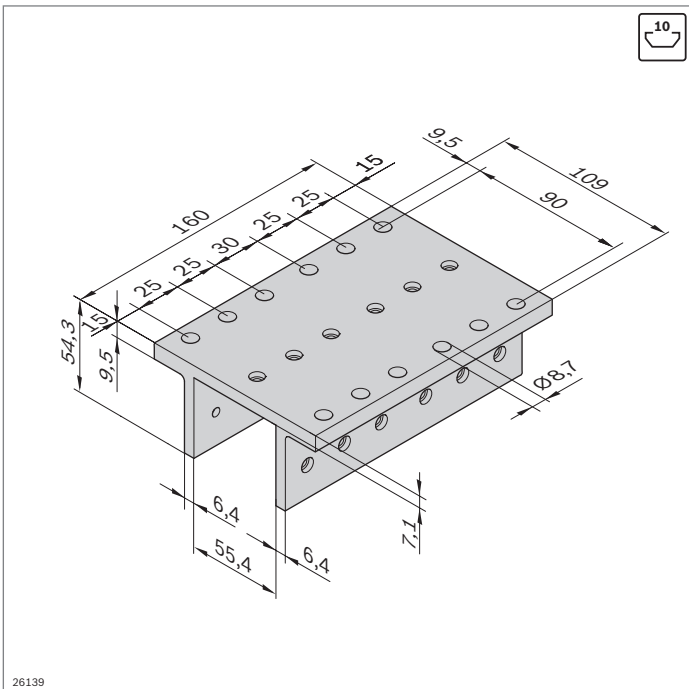
#### Accessories

	No.		Pcs	Pcs	Page
Slider, slot 8 mm flat	10 <b>3 842 523 212</b>		6	5	12-13
Slider, slot 8 mm flat lockable	1 <b>3 842 552 423</b>		—	1	12-11
Spacer washer Slot 8 mm	4 <b>8 981 535 891</b>		X <sup>1)</sup>	X <sup>1)</sup>	12-11
Screw W1451 - 3.5x14 - 10.9	10 <b>3 842 552 421</b>		18	17	12-12
Clamping lever, 20 mm	1 <b>3 842 516 846</b>		—	1	4-15
Sliding block Slot 8 mm; M8	100 <b>3 842 514 931</b>		—	1	3-7

<sup>1)</sup> If required



1250 N	625 N	40 Nm	150 Nm



2500 N	1250 N	80 Nm	200 Nm

### EcoSlide 45x45x80

- ▶ For use with profile width 45 mm
- ▶ Maximum sliding speed: 12 m/min

Trolley 45x45x80	No.
	1 <b>8 981 535 323</b>

Material: Aluminum; anodized

### Accessories

No.		Pcs		Page
10	<b>3 842 530 329</b>	3	2	12-13
1	<b>3 842 552 424</b>	—	1	12-11
4	<b>8 981 535 890</b>	X <sup>1)</sup>	X <sup>1)</sup>	12-12
10	<b>3 842 552 422</b>	9	8	12-12
1	<b>3 842 516 846</b>	—	1	4-15
100	<b>3 842 528 735</b>	—	1	3-7

<sup>1)</sup> If required

### EcoSlide 45x45x160

- ▶ For use with profile width 45 mm
- ▶ Maximum sliding speed: 12 m/min

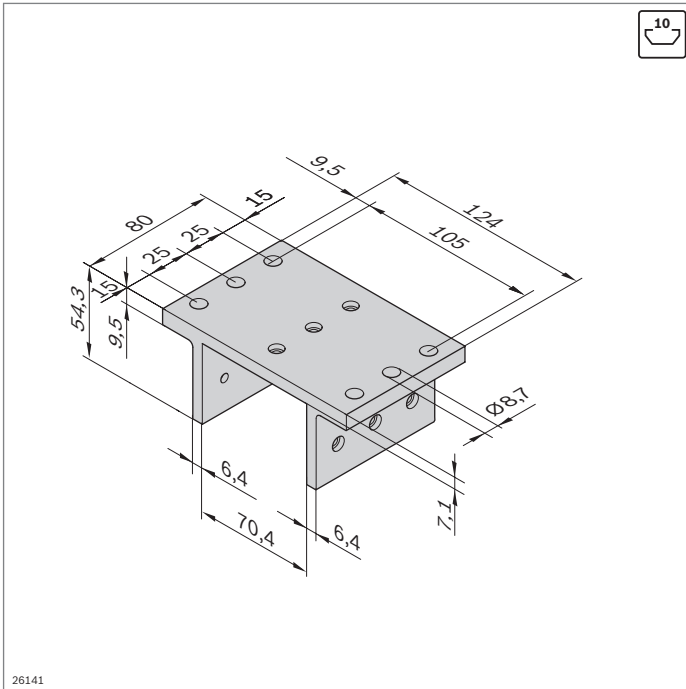
Trolley 45x45x160	No.
	1 <b>8 981 535 324</b>

Material: Aluminum; anodized

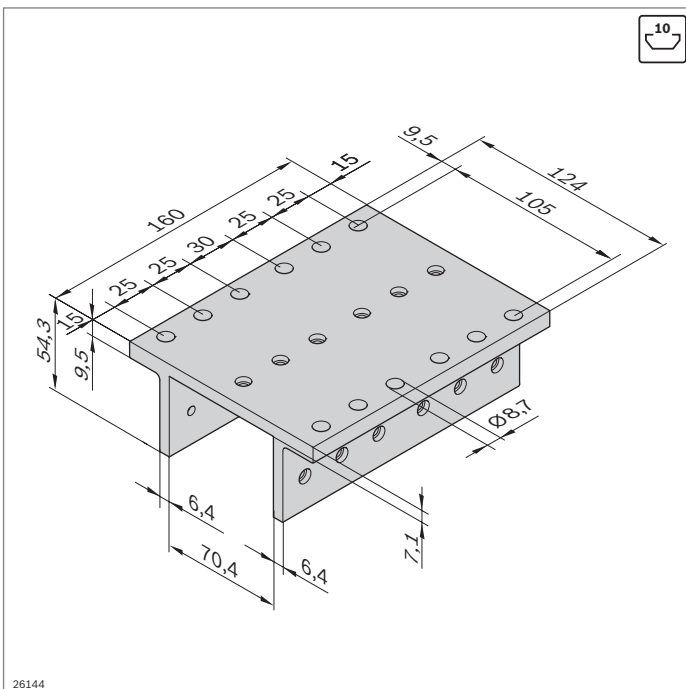
### Accessories

No.		Pcs		Page
10	<b>3 842 530 329</b>	6	5	12-13
1	<b>3 842 552 424</b>	—	1	12-11
4	<b>8 981 535 890</b>	X <sup>1)</sup>	X <sup>1)</sup>	12-12
10	<b>3 842 552 422</b>	18	17	12-12
1	<b>3 842 516 846</b>	—	1	4-15
100	<b>3 842 528 735</b>	—	1	3-7

<sup>1)</sup> If required



$F_{max}$	$F_{max}$	$M_{max}$	$M_{max}$
1250 N	625 N	40 Nm	150 Nm



$F_{max}$	$F_{max}$	$M_{max}$	$M_{max}$
2500 N	1250 N	80 Nm	200 Nm

### EcoSlide 45x60x80

- ▶ For use with profile width 60 mm
- ▶ Maximum sliding speed: 12 m/min

Trolley 45x60x80	No.
	1 <b>8 981 535 478</b>

Material: Aluminum; anodized

#### Accessories

	No.		Page
		Pcs	Pcs
Slider, slot 10 mm flat	10 <b>3 842 530 329</b>	3	2 12-13
Slider, slot 10 mm flat lockable	1 <b>3 842 552 424</b>	—	1 12-11
Spacer washer Slot 10 mm	4 <b>8 981 535 890</b>	X <sup>1)</sup>	X <sup>1)</sup> 12-12
Screw W1452 - 4x18 - 10.9	10 <b>3 842 552 422</b>	9	8 12-12
Clamping lever, 20 mm	1 <b>3 842 516 846</b>	—	1 4-15
Sliding block Slot 10 mm, M8	100 <b>3 842 528 735</b>	—	1 3-7

<sup>1)</sup> If required

### EcoSlide 45x60x160

- ▶ For use with profile width 60 mm
- ▶ Maximum sliding speed: 12 m/min

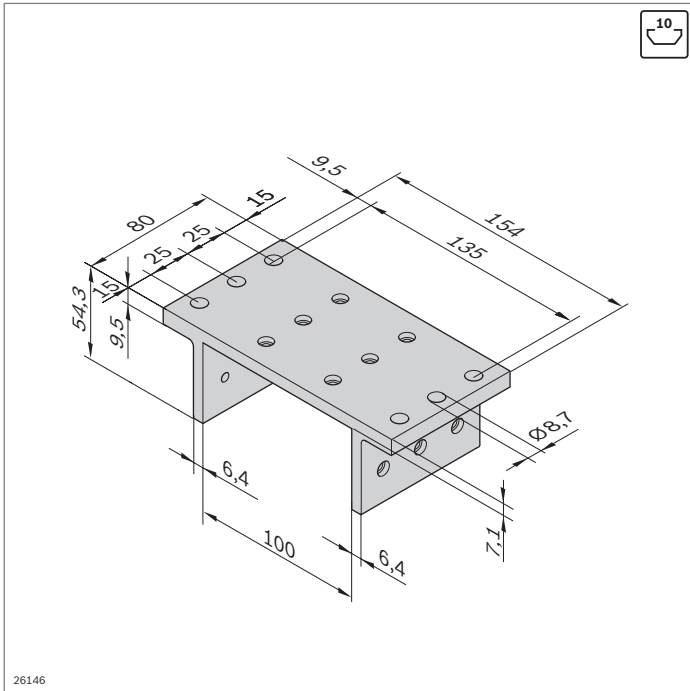
Trolley 45x60x160	No.
	1 <b>8 981 535 479</b>

Material: Aluminum; anodized

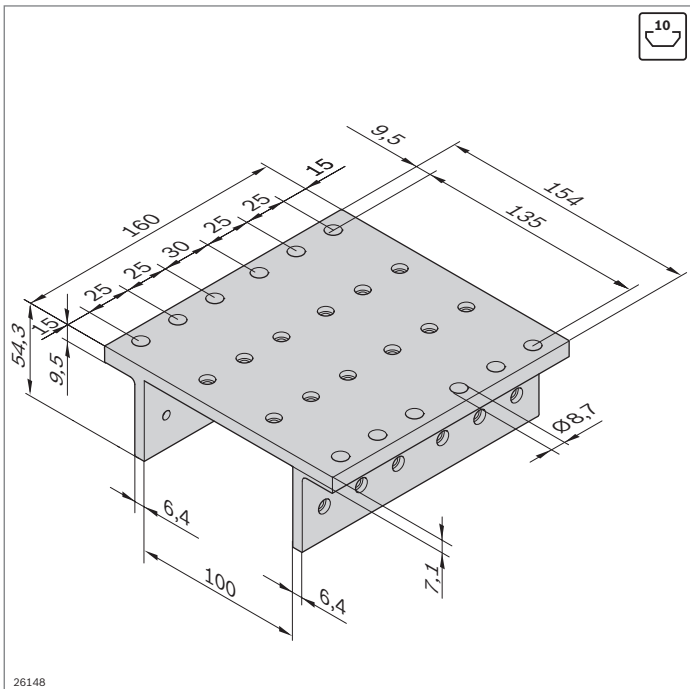
#### Accessories

	No.		Page
		Pcs	Pcs
Slider, slot 10 mm flat	10 <b>3 842 530 329</b>	6	5 12-13
Slider, slot 10 mm flat lockable	1 <b>3 842 552 424</b>	—	1 12-11
Spacer washer Slot 10 mm	4 <b>8 981 535 890</b>	X <sup>1)</sup>	X <sup>1)</sup> 12-12
Screw W1452 - 4x18 - 10.9	10 <b>3 842 552 422</b>	18	17 12-12
Clamping lever, 20 mm	1 <b>3 842 516 846</b>	—	1 4-15
Sliding block Slot 10 mm, M8	100 <b>3 842 528 735</b>	—	1 3-7

<sup>1)</sup> If required



2500 N	1250 N	50 Nm	150 Nm



5000 N	2500 N	100 Nm	200 Nm

### EcoSlide 45x90x80

- ▶ For use with profile width 90 mm
- ▶ Maximum sliding speed: 12 m/min

Trolley 45x90x80	No.
	1 <b>8 981 535 325</b>

Material: Aluminum; anodized

#### Accessories

No.		Pcs		Page
10	<b>3 842 530 329</b>	4	3	12-13
1	<b>3 842 552 424</b>	—	1	12-11
4	<b>8 981 535 890</b>	X <sup>1)</sup>	X <sup>1)</sup>	12-12
10	<b>3 842 552 422</b>	12	11	12-12
1	<b>3 842 516 846</b>	—	1	4-15
100	<b>3 842 528 735</b>	—	1	3-7

<sup>1)</sup> If required

### EcoSlide 45x90x160

- ▶ For use with profile width 90 mm
- ▶ Maximum sliding speed: 12 m/min

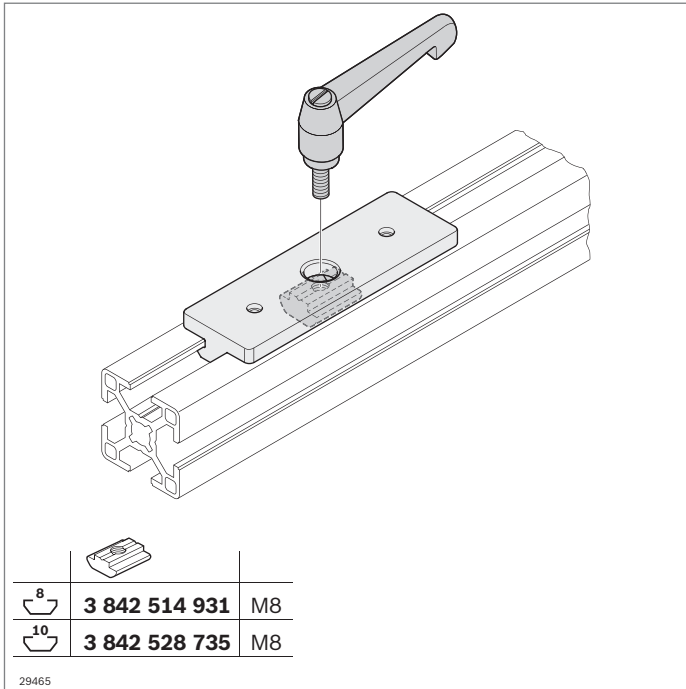
Trolley 45x90x160	No.
	1 <b>8 981 535 326</b>

Material: Aluminum; anodized

#### Accessories

No.		Pcs		Page
10	<b>3 842 530 329</b>	8	7	12-13
1	<b>3 842 552 424</b>	—	1	12-11
4	<b>8 981 535 890</b>	X <sup>1)</sup>	X <sup>1)</sup>	12-12
10	<b>3 842 552 422</b>	24	23	12-12
1	<b>3 842 516 846</b>	—	1	4-15
100	<b>3 842 528 735</b>	—	1	3-7

<sup>1)</sup> If required



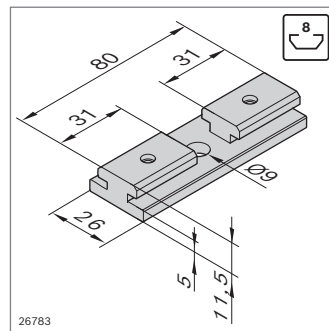
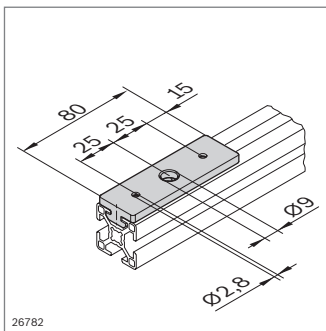
## Slider, flat lockable



- ▶ Suitable for clamping using a sliding block and a clamping lever
- ▶ For constructing low-wear guides

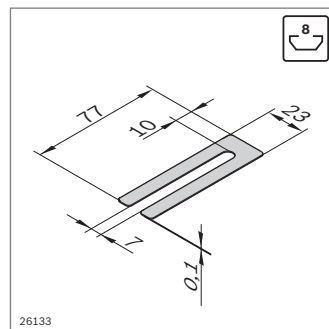
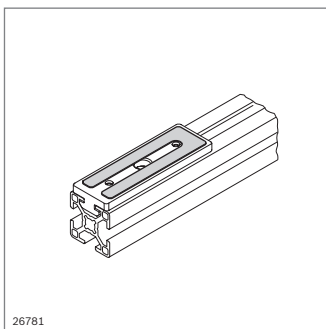
Accessories:

- ▶ Sliding blocks (p. 3-7)
- ▶ Clamping lever (p. 4-15)



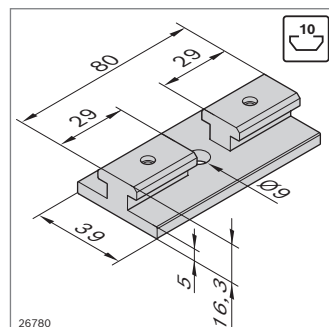
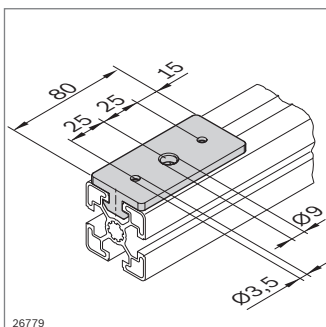
Slider, flat lockable	Slot		No.
	8	1	<b>3 842 552 423</b>

Material: POM; natural  
 Accessories: Sliding block, T-nut, slot 8 (M8), 3 842 514 931, p. 3-7



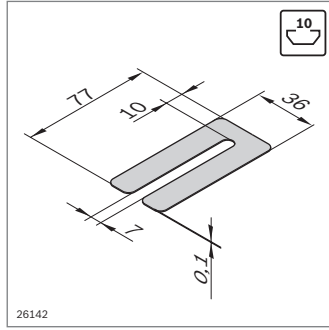
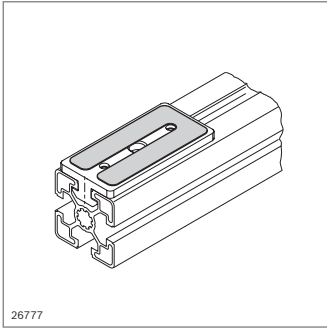
Spacer washer	Slot		No.
77x23	8	4	<b>8 981 535 891</b>

Material: Steel; plain

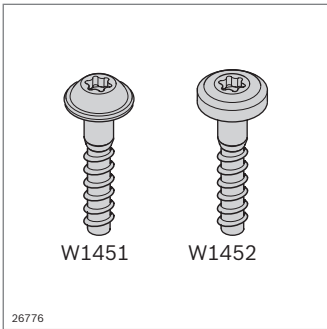


Slider, flat lockable	Slot		No.
	10	1	<b>3 842 552 424</b>

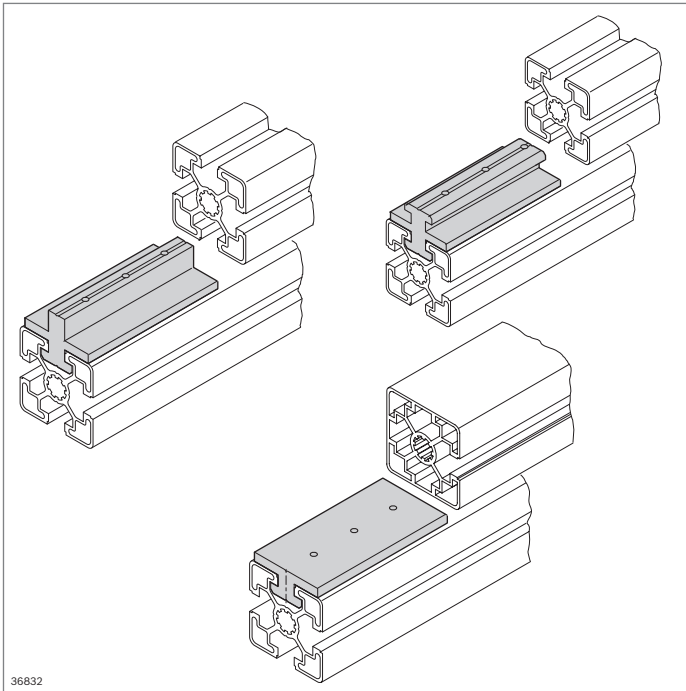
Material: POM; natural  
 Accessories: Sliding block, T-nut, slot 10 (M8), 3 842 528 735, p. 3-7



Spacer washer	Slot	No.
77x36	10 4	<b>8 981 535 890</b>
Material:	Steel; plain	



Plastic self-tapping screw	Slot	No.
W1451 - 3.5x14 - 10.9	8 10	<b>3 842 552 421</b>
W1452 - 4x18 - 10.9	10 10	<b>3 842 552 422</b>
Material:	Steel; zinc-plated	



36832

## Slider for profiles

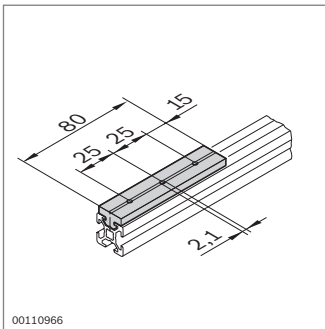


### Slider

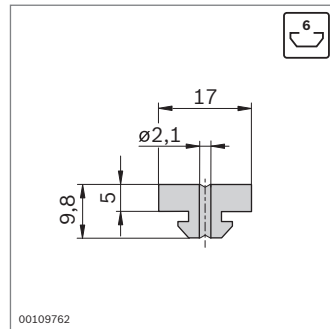
- For the construction of low-wear guides, e.g. for manual sliding and sliding and lifting doors, as well as drawer slides

Accessories, optional:

Self-tapping screws for fastening the slider in a profile slot



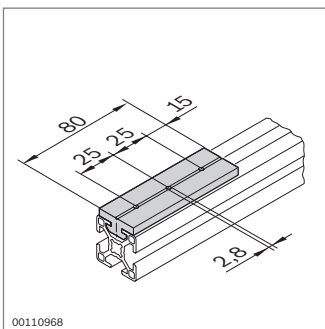
00110966



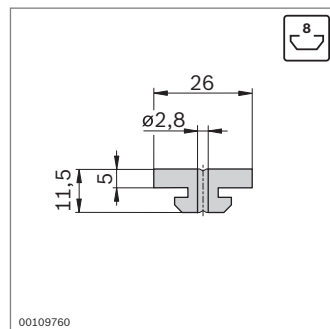
00109762

Slider, flat	No.
	10 <b>3 842 523 213</b>

Material: POM; natural



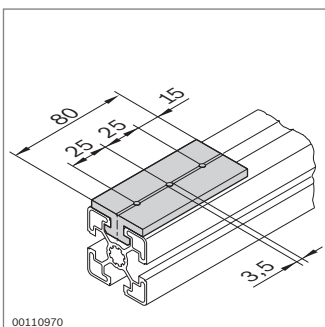
00110968



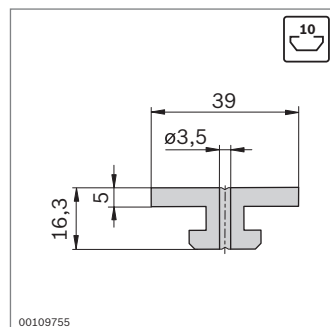
00109760

Slider, flat	No.
	10 <b>3 842 523 212</b>

Material: POM; natural



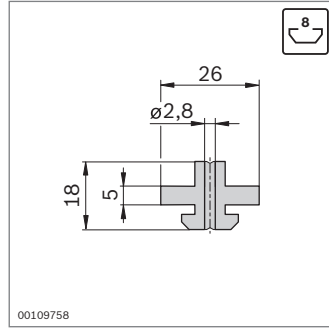
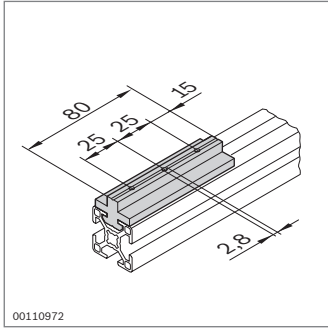
00110970



00109755

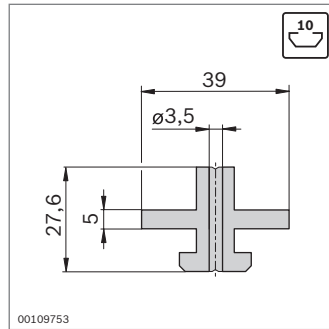
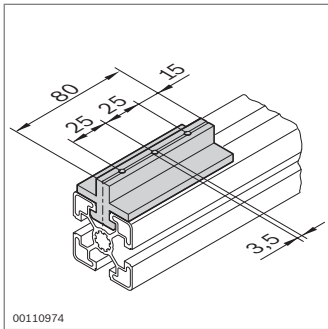
Slider, flat	No.
	10 <b>3 842 530 329</b>

Material: POM; natural



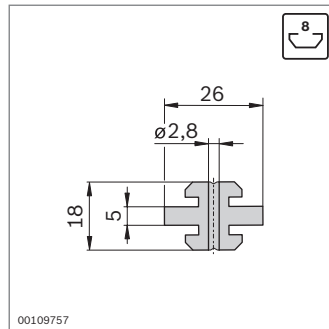
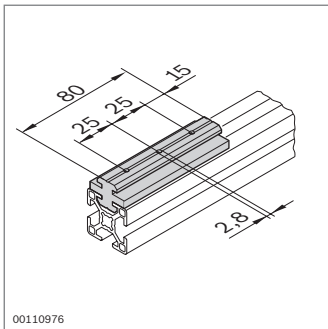
Slider, center	No.
	10 3 842 523 210

Material: POM; natural



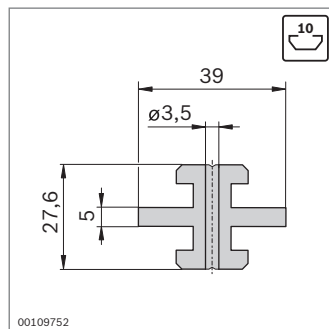
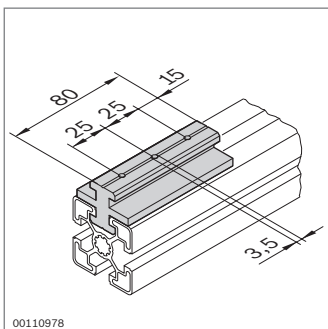
Slider, center	No.
	10 3 842 523 206

Material: POM; natural



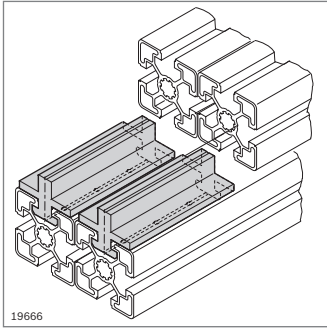
Slider, center	No.
	10 3 842 523 209

Material: POM; natural



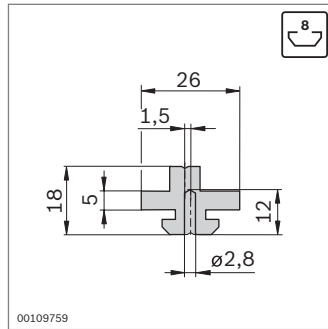
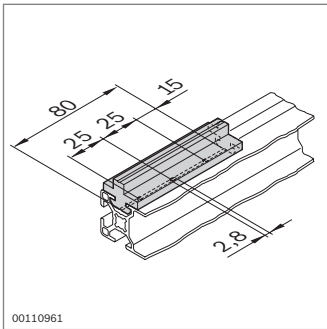
Slider, center	No.
	10 3 842 523 205

Material: POM; natural

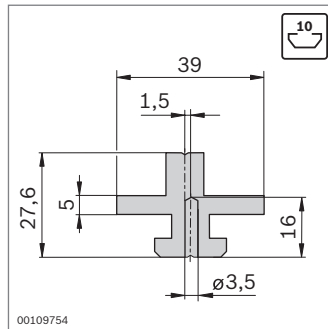
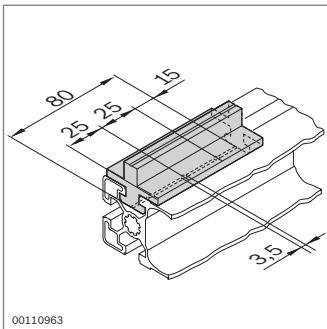


**Offset sliders**

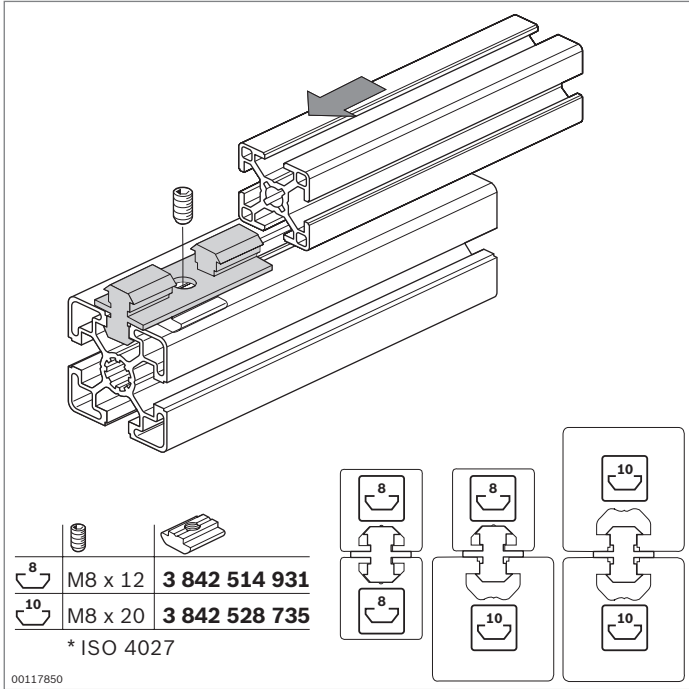
► For constructing multiple sliding doors



Slider, offset	No.
	10 <b>3 842 523 211</b>
Material:	POM; natural



Slider, offset	No.
	10 <b>3 842 523 207</b>
Material:	POM; natural



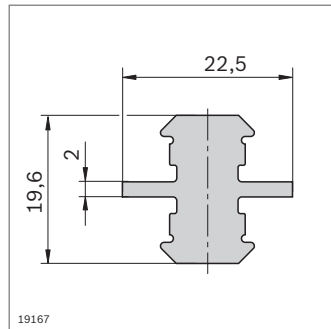
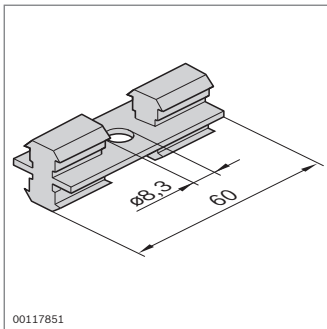
## Multi-slider



- ▶ Multi-slider for constructing low-wear guides
- ▶ Suitable for all profiles with 8 mm and 10 mm slot widths
- ▶ Combination of profiles with different slot widths possible

Accessories:

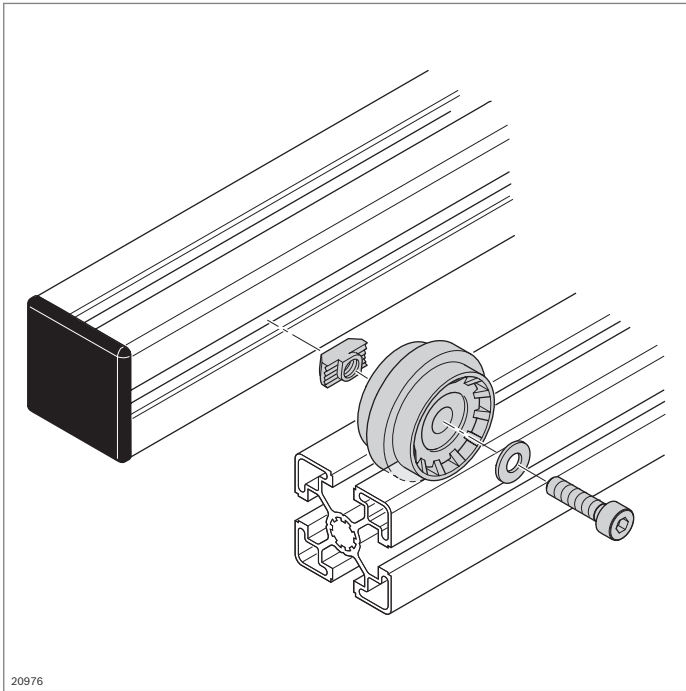
Headless setscrew (ISO 4027) and sliding block (p. 3-7) for fastening the slider in the profile slot



Multi-slider 8/10	No.
-------------------	-----

10	<b>3 842 513 517</b>
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Material: POM; natural

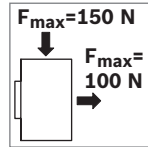
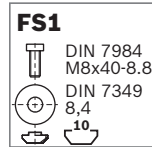
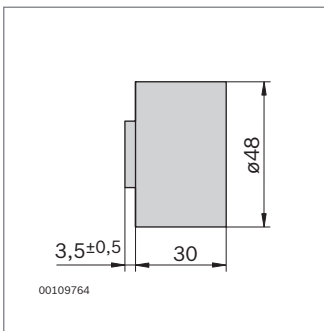


20976

## Support wheels

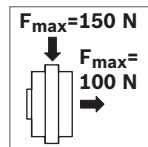
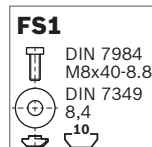
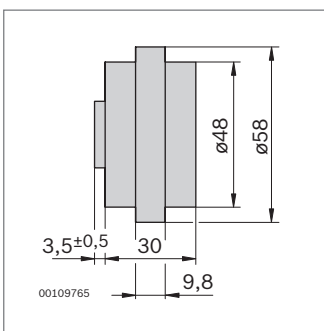


- ▶ Support wheel for constructing trolleys or roller sections
- ▶ Mounted on profiles with 10 mm slot
- ▶ Good running characteristics thanks to deep-groove ball bearing with large diameter
- ▶ Support wheel with rim can be guided in 10 mm slot
- ▶ ESD-conductive



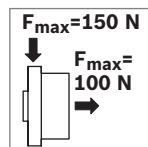
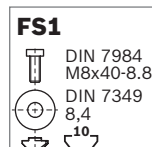
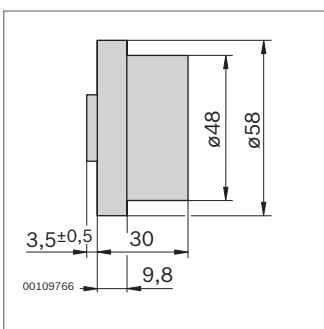
Support wheel	ESD	No.	FS
		10	FS1

Material: PA; black  
Fastening material: Steel; zinc-plated  
Scope of delivery: Incl. fastening material (FS)



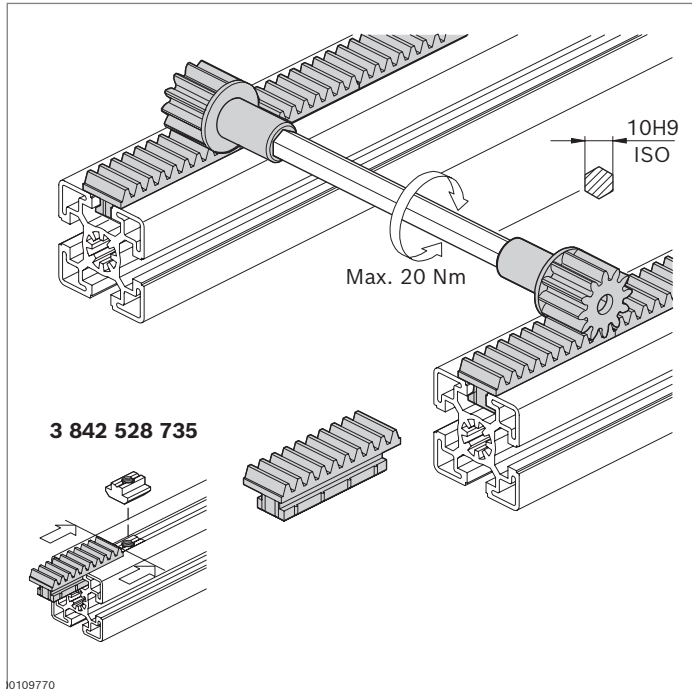
Support wheels with center rim	ESD	No.	FS
		10	FS1

Material: PA; black  
Fastening material: Steel; zinc-plated  
Scope of delivery: Incl. fastening material (FS)



Support wheels with side rim	ESD	No.	FS
		10	FS1

Material: PA; black  
Fastening material: Steel; zinc-plated  
Scope of delivery: Incl. fastening material (FS)



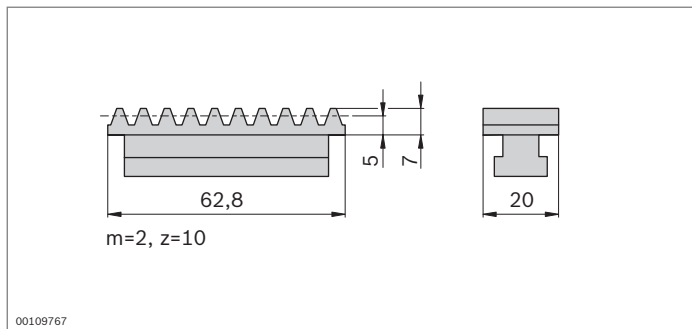
## Rack Pinion



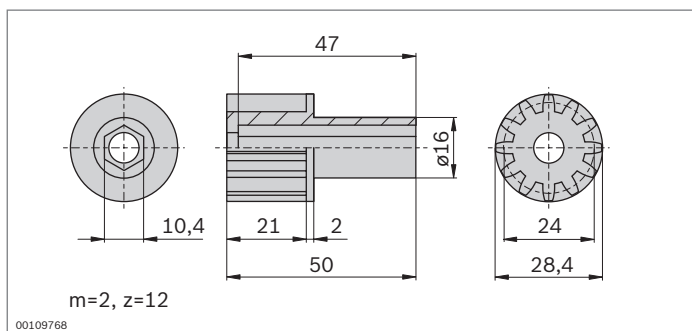
- ▶ For constructing synchronous shafts to prevent tilting in the case of large guide widths

Required accessories:

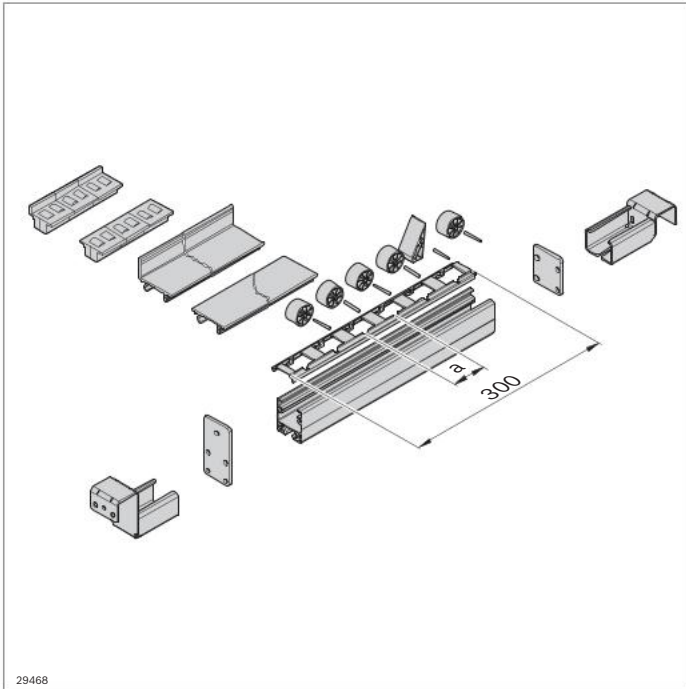
- ▶ Standard commercially available hexagonal shaft 10H9
- ▶ Sliding block for fixing the rack in the slot (p. 3-7)



Rack	No.
	10 <b>3 842 501 578</b>
Material:	PA; black



Pinion	No.
	<b>3 842 501 576</b>
Material:	POM; white



29468

## Elements for the construction of conveyor track Lean



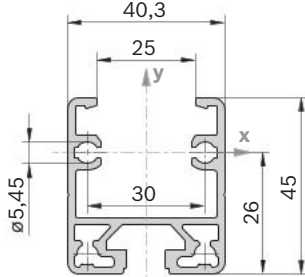
- ▶ Components for constructing manual conveyor sections
- ▶ Based on multi-functional U-profile
- ▶ Clip-in conveyor elements for all requirements:
  - Rollers with or without flange; four colors to visually identify inventories (kanban) or to differentiate between good/reject parts
  - Slide rails with or without integrated lateral guide (GSSK, GS)
  - Roller elements with and without roller flange (RE45SK, RE45)

Accessories:

Round tube D28 (p. 2-76)

### U-profile

$A = 4,4 \text{ cm}^2$   
 $I_x = 10,4 \text{ cm}^4$   
 $I_y = 8,3 \text{ cm}^4$   
 $W_x = 4,6 \text{ cm}^3$   
 $W_y = 4,1 \text{ cm}^3$   
 $m = 1,2 \text{ kg/m}$

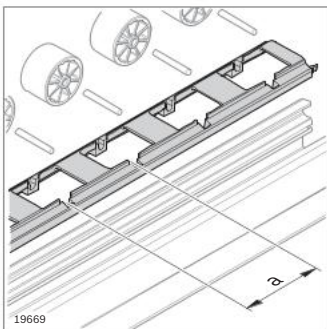


19902

- ▶ U-profile with 10 mm slot

U-profile	L (mm)	ESD	No.
1 pc	30 ... 6070		<b>3 842 993 316 / L</b>
1 pc	6070		<b>3 842 564 223</b>
20 pcs	6070		<b>3 842 535 115</b>
1 pc	30 ... 6070		<b>3 842 995 027 / L</b>
20 pcs	6070		<b>3 842 541 814</b>

Material: U-profile: Aluminum, anodized  
 U-profile ESD: Aluminum; untreated

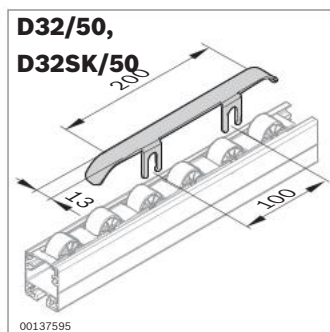
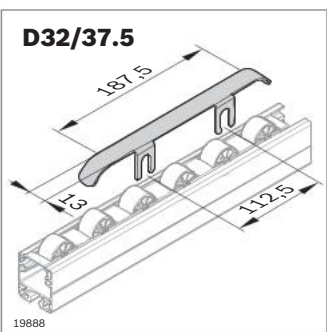
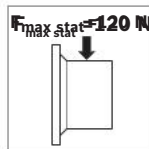
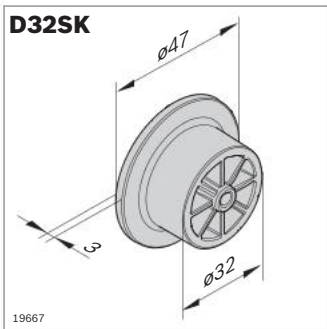
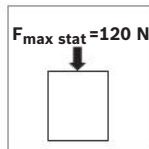
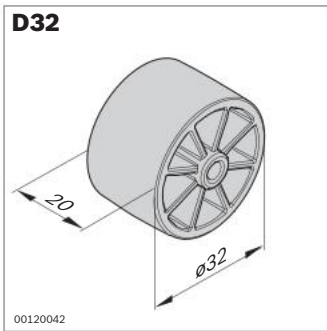
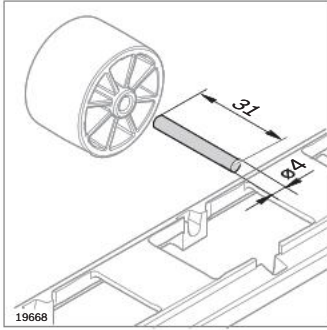


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- ▶ Roller carrier for rollers D32 and D32SK (p. 12-20)

Roller carrier	a (mm)	ESD	No.
<b>D32/37.5</b>	37.5	20	<b>3 842 537 944</b>
		20	<b>3 842 537 945</b>
<b>D32/50</b>	50	20	<b>3 842 532 887</b>
		20	<b>3 842 538 094</b>
<b>D 32SK/50</b>	50	20	<b>3 842 532 886</b>
		20	<b>3 842 537 947</b>

Material: ABS



► Steel axle for rollers D32, D32SK

Steel axle	ESD	No.
	100	3 842 532 862

Material: Steel; stainless

Roller	Color	ESD	No.
D32	Black	100	3 842 532 865
		100	3 842 537 961
	Red	100	3 842 532 866
		100	3 842 537 960
	Yellow	100	3 842 532 870
		100	3 842 537 959
	Green	100	3 842 532 752
		100	3 842 537 958

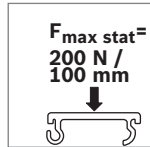
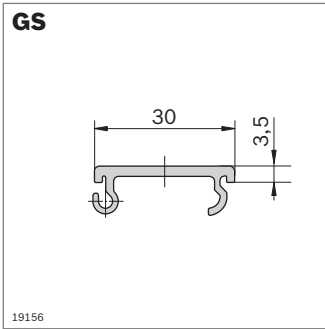
Material: PE; colored / ESD made of PA, colored

Roller	Color	ESD	No.
D32SK	Black	100	3 842 532 867
		100	3 842 537 965
	Red	100	3 842 532 883
		100	3 842 537 964
	Yellow	100	3 842 532 884
		100	3 842 537 963
	Green	100	3 842 532 880
		100	3 842 537 962

Material: PE; colored / ESD made of PA, colored

Brake	ESD	No.
D32/37.5	20	3 842 537 948
D32/50, D32SK/50	20	3 842 532 881

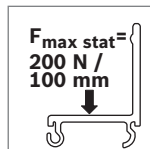
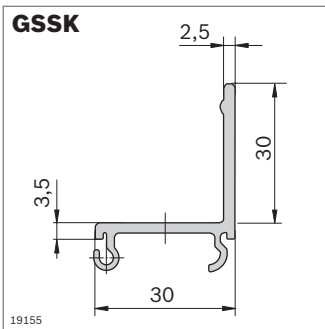
Material: Steel; zinc-plated



- ▶ Slide rail GS for constructing conveyor tracks with large gradients
- ▶ Slide rail for use with heavy containers

Slide rail	Color	L (mm)	ESD	No.
GS	Dusty gray	3000	20	<b>3 842 535 124</b>
	Black	3000	20	<b>3 842 537 803</b>

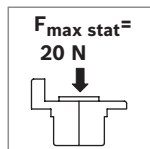
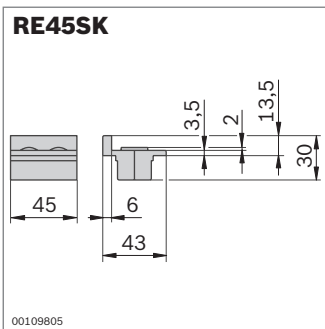
Material: PVC



- ▶ Slide rail with lateral guide GSSK for constructing conveyor tracks with large gradients
- ▶ Slide rail for use with heavy containers

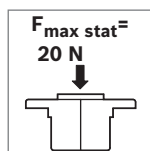
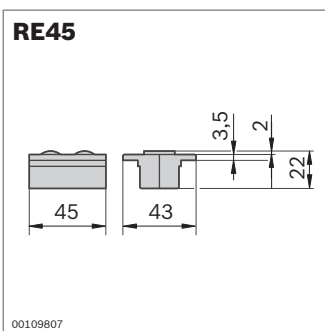
Slide rail	Color	L (mm)	ESD	No.
GSSK	Dusty gray	3000	20	<b>3 842 537 806</b>
	Black	3000	20	<b>3 842 537 807</b>

Material: PVC



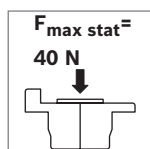
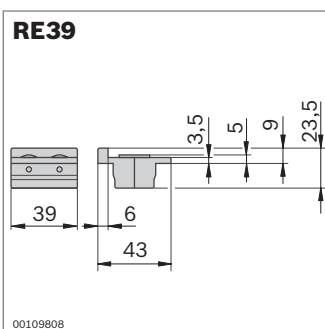
Roller element	Color	ESD	No.
RE45SK	Signal gray	100	<b>3 842 554 748</b>
	Black	100	<b>3 842 538 065</b>

Material: PA



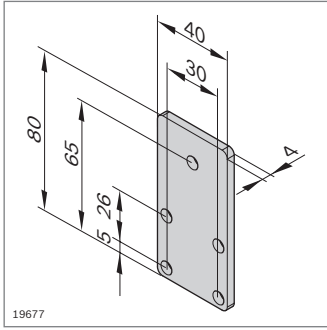
Roller element	Color	ESD	No.
RE45	Signal gray	100	<b>3 842 554 746</b>
	Black	100	<b>3 842 538 064</b>

Material: PA

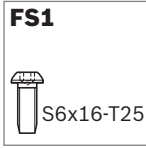


Roller element	Color	ESD	No.
RE39	Black	10	<b>3 842 520 000</b>
	Black	10	<b>3 842 538 245</b>

Material: PA  
Axis: Steel

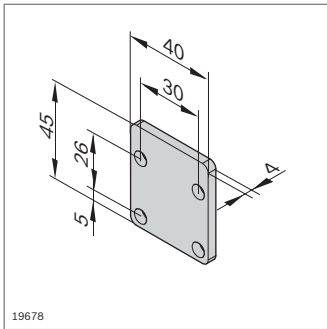


19677



Stop plate with stop	ESD	No.	FS
40x80		20 <b>3 842 535 121</b>	4xFS1

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

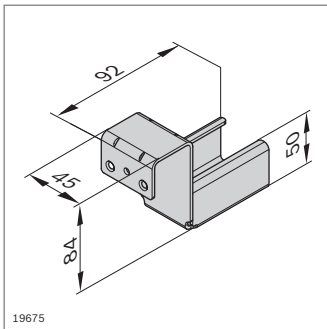


19678

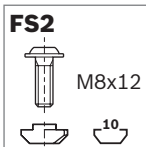


Stop plate without stop	ESD	No.	FS
40x45		20 <b>3 842 535 122</b>	4xFS1

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

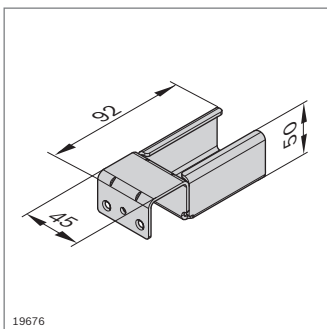


19675

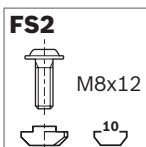


Rail holder with stop	ESD	No.	FS
		20 <b>3 842 537 660</b>	FS2

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

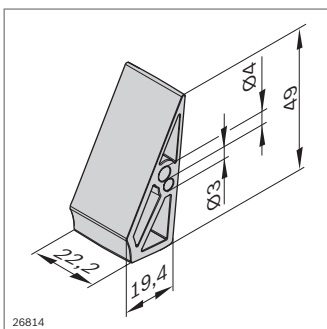


19676



Rail holder without stop	ESD	No.	FS
		20 <b>3 842 537 661</b>	FS2

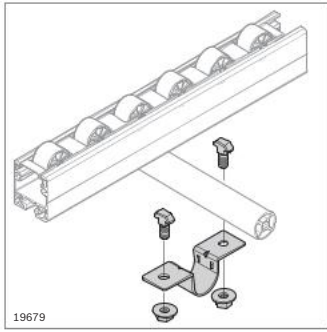
Material: Steel; zinc-plated  
 Scope of delivery: Incl. fastening material (FS)





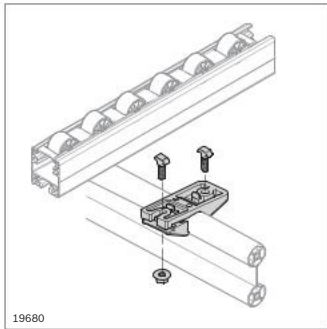
26814


Stopper XLean/Lean	ESD	No.
		10 <b>3 842 552 151</b>

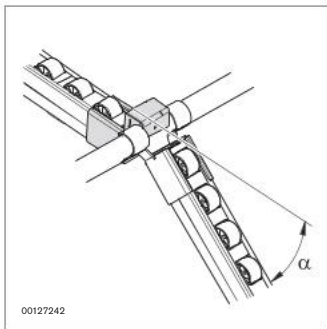
Material: PP





**FS3**  
 HS10-M8x20  
 M8



**FS4**  
 HS10-M8x30  
 EN 1661-M8-8.8



**FS5**  
 M8x12-10.9-VZ  
 10

Tube clamp D28		No.	FS
	20	<b>3 842 535 364</b>	2xFS3

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

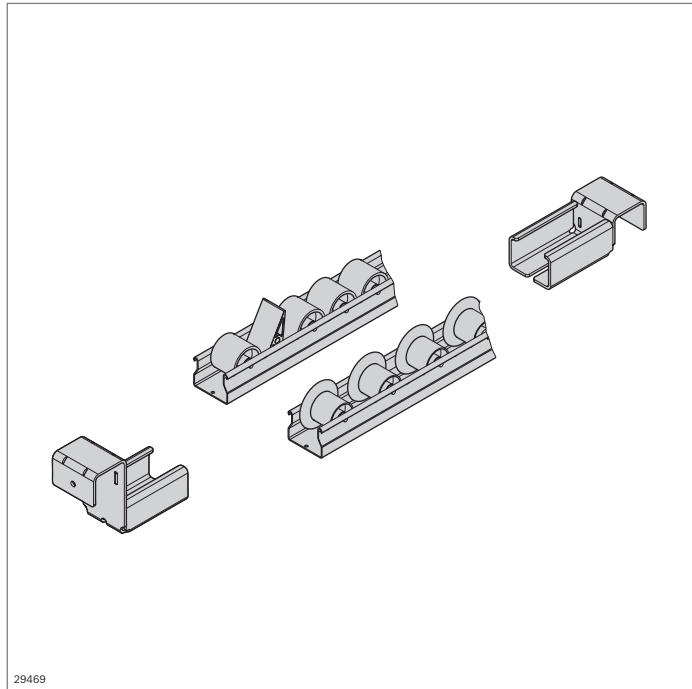
Holder for strut profile D28x55		No.	FS
	20	<b>3 842 537 720</b>	2xFS4

Material: Diecast aluminum  
 Fastening material: Steel; zinc-plated  
 Scope of delivery: Incl. fastening material (FS)

- ▶ Flexible bridge with maximum tilt ( $\alpha_{\max}$ ) from horizontal:
  - With round tube D28 (p. 2-76):  $\alpha_{\max} = 40^\circ$
  - With strut profile D28x55 (p. 2-77):  $\alpha_{\max} = 30^\circ$

Flexible bridge		No.	FS
	20	<b>3 842 537 951</b>	FS5

Material: Steel; zinc-plated  
 Fastening material: Steel; zinc-plated  
 Scope of delivery: Incl. fastening material (FS)



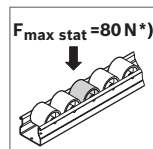
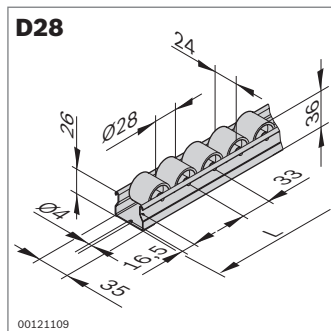
## Elements for the construction of conveyor track XLean



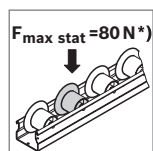
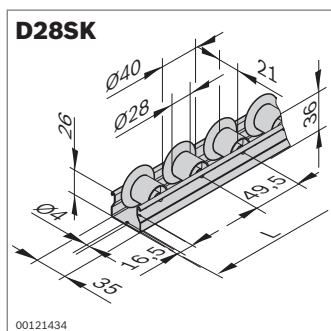
- ▶ Conveyor track made of steel profiles with plastic rollers and optional roller flange
- ▶ Available as ESD-conductive version.
- ▶ Self-supporting roller section
- ▶ Roller section with drill holes for fastening

Accessories:

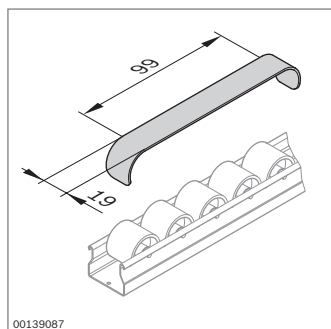
Round tube D28 (p. 2-76)



\* per roller



\* per roller



Roller section	Color	L (mm)	ESD	No.
D28	Gray	100 ... 4500	1	3 842 993 321 / L
		4500	50	3 842 537 776
	Black	100 ... 4500	1	3 842 993 431 / L
		4500	50	3 842 537 778

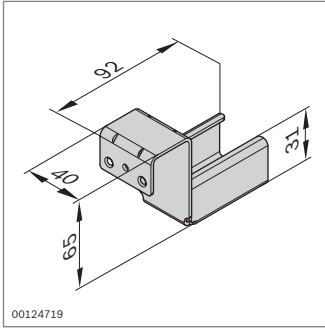
Material: Rail: Steel, zinc-plated  
Roller: PP

Roller section	Color	L (mm)	ESD	No.
D28SK	Gray	100 ... 4500	1	3 842 993 322 / L
		4500	50	3 842 537 777
	Black	100 ... 4500	1	3 842 993 432 / L
		4500	50	3 842 537 779

Material: Rail: Steel, zinc-plated  
Roller: PP

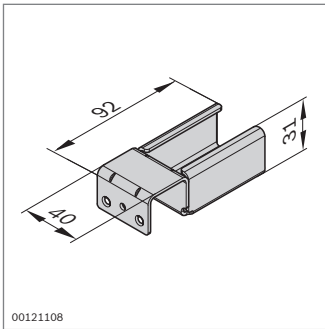
Brake	No.
	20 3 842 532 871

Material: Strip steel; galvanized



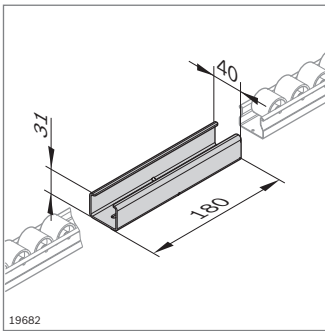
Rail holder with stop	No.
	20 <b>3 842 538 372</b>

Material: Steel; zinc-plated



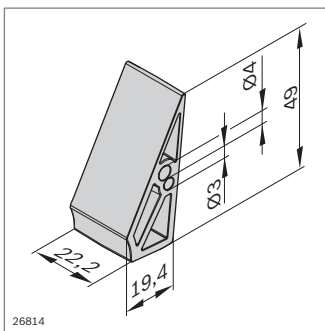
Rail holder without stop	No.
	20 <b>3 842 537 687</b>

Material: Steel; zinc-plated



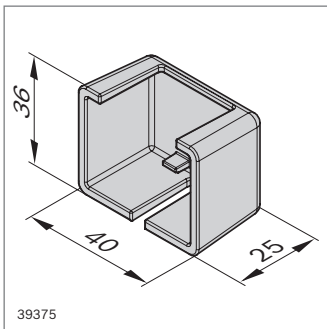
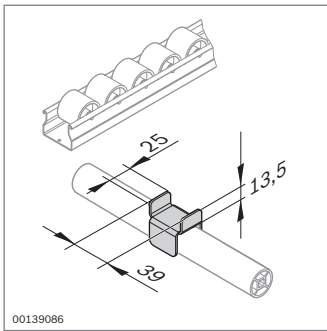
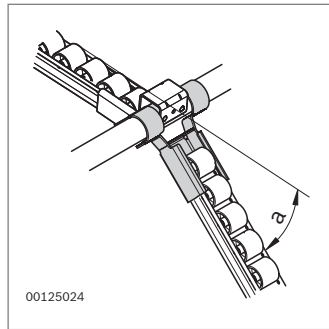
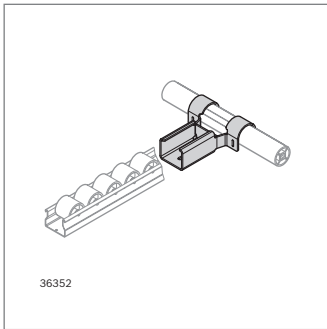
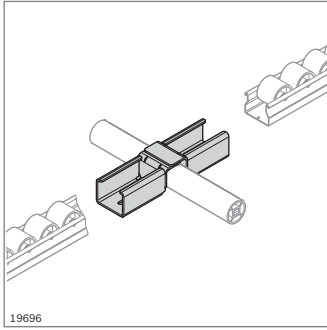
Section link	No.
	20 <b>3 842 536 722</b>

Material: Steel; zinc-plated



Stopper XLean/Lean	ESD	No.
		10 <b>3 842 552 151</b>

Material: PP



Bridge	No.
	20 <b>3 842 536 724</b>

Material: Steel; zinc-plated

- Flexible bridge with maximum tilt ( $\alpha_{\max}$ ) from horizontal:
  - With round tube D28 (p. 2-76):  $\alpha_{\max} = 40^\circ$
  - With strut profile D28x55 (p 2-77):  $\alpha_{\max} = 30^\circ$

Flexible bridge	No.
	20 <b>3 842 537 911</b>

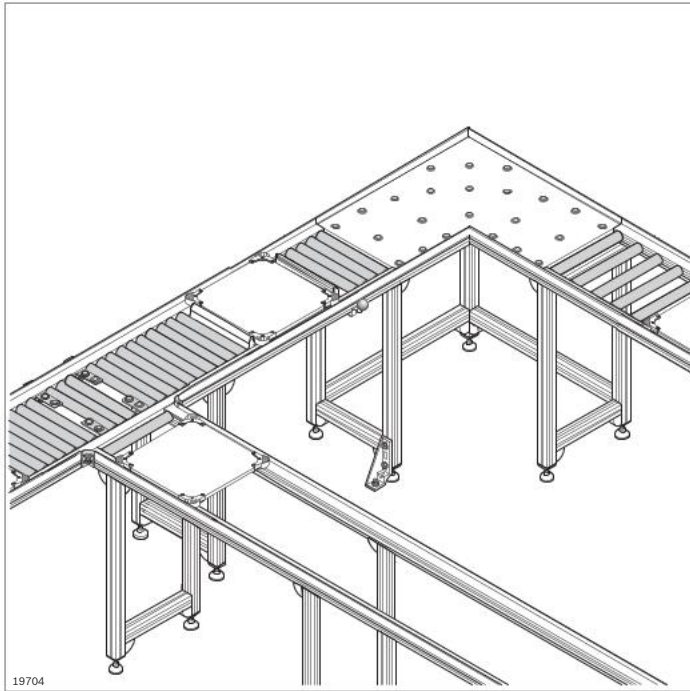
Material: Steel; zinc-plated

Mounting	No.
	20 <b>3 842 537 657</b>

Material: Steel; zinc-plated

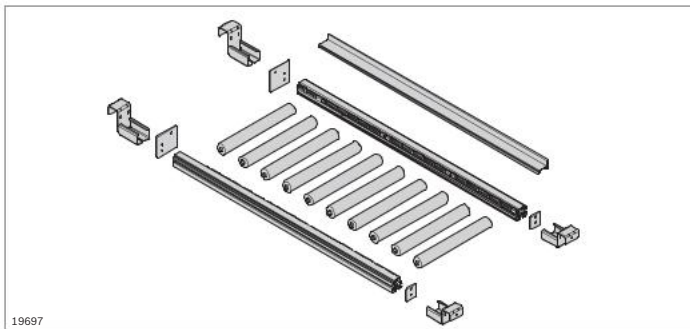
Cover cap XLean	Color	ESD	No.
	Black		20 <b>3 842 562 077</b>

Material: PP



### Elements for the construction of conveyor track EcoFlow

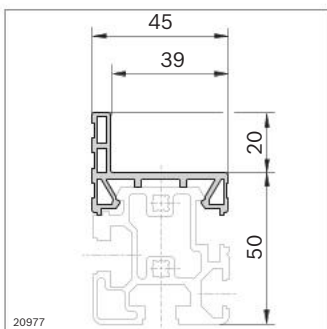
- ▶ Based on EcoFlow section profile
- ▶ For manual slide sections with rollers
- ▶ Clip-in guide profiles with lateral guide and clip-in conveyor rollers



**MV45x45**

A = 6,2 cm<sup>2</sup>  
 $I_x = 11,8 \text{ cm}^4$   
 $I_y = 10,5 \text{ cm}^4$   
 $W_x = 5,3 \text{ cm}^3$   
 $W_y = 4,7 \text{ cm}^3$   
 m = 1,7 kg/m

19698

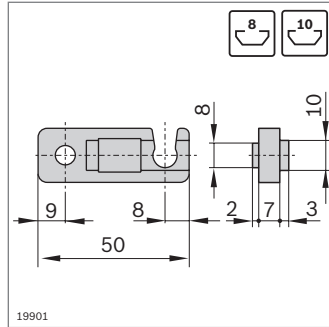
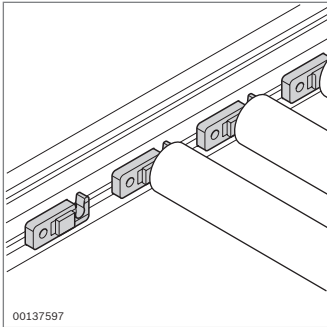
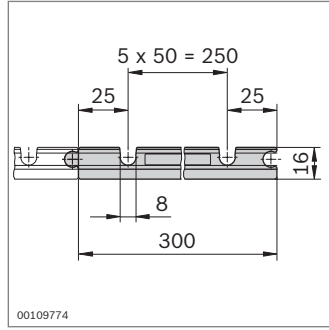
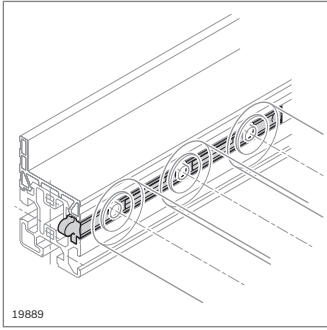


Section profile MV45x45	L (mm)	No.
1 pc	30 ... 6070	<b>3 842 993 029 / L</b>
1 pc	6070	<b>3 842 537 357</b>
20 pcs	6070	<b>3 842 537 321</b>

Material: Aluminum; anodized

Guide profile MV45	Color	L (mm)	ESD	No.
Signal gray RAL 7004	70 ... 3000	1		<b>3 842 996 432</b>
Signal gray RAL 7004	3000	10		<b>3 842 554 758</b>
Black	70 ... 3000	1	⚡	<b>3 842 993 512 / L</b>
Black	3000	10	⚡	<b>3 842 526 034</b>

Material: PVC



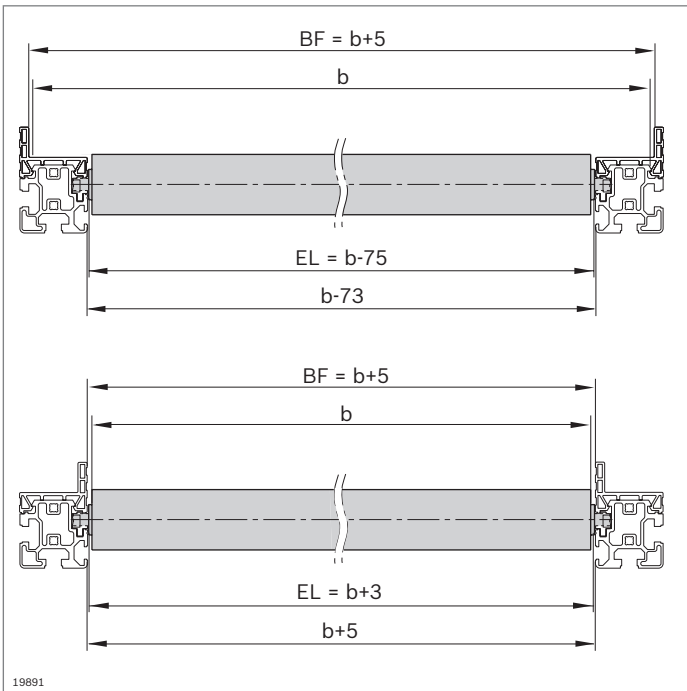
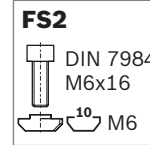
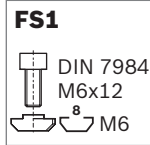
EcoFlow roller carrier	ESD	No.
	10	<b>3 842 535 683</b>

Material: ABS; black

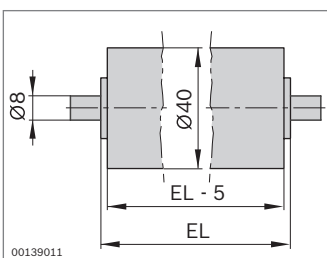
Roller fixation	Slot	No.	FS
	8	<b>3 842 535 667</b>	FS1
	10	<b>3 842 535 668</b>	FS2

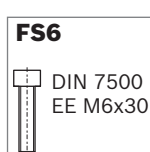
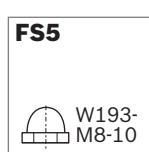
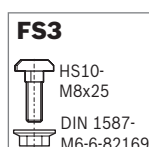
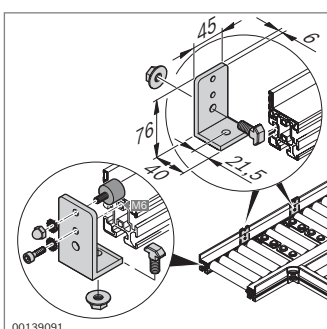
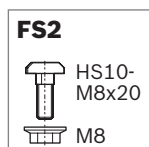
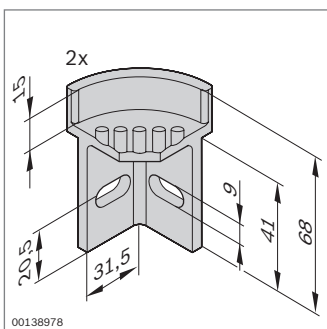
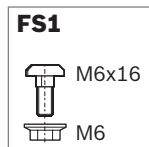
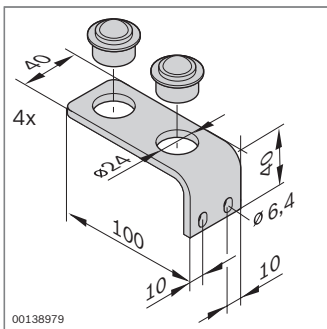
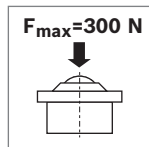
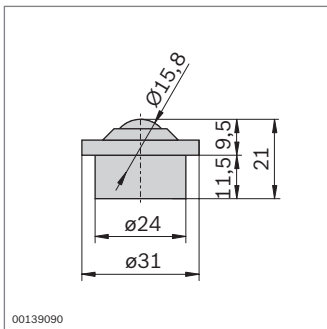
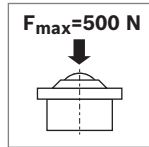
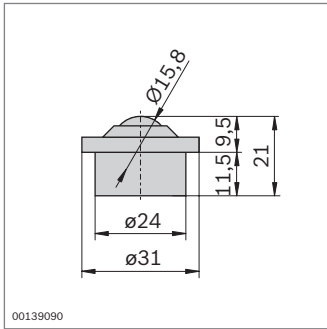
Material: Roller fixation: PA6; black  
Fastening material: Steel; zinc-plated

Scope of delivery: Incl. fastening material (FS)



EcoFlow roller	F <sub>max</sub> (N)	EL (mm)	ESD	No.
<b>Plastic, gray</b>	150	105 ... 605		<b>3 842 994 989 / L</b>
		225		<b>3 842 525 740</b>
		325		<b>3 842 525 741</b>
		425		<b>3 842 525 742</b>
		525		<b>3 842 537 164</b>
<b>Steel; zinc-plated</b>	500	105 ... 1005		<b>3 842 994 988 / L</b>
		225		<b>3 842 525 737</b>
		325		<b>3 842 525 738</b>
		425		<b>3 842 525 739</b>
		525		<b>3 842 537 163</b>
<b>Stainless steel</b>	150	105 ... 1005		<b>3 842 995 008 / L</b>





► Ball roller for smooth manual movement of goods with large surfaces

Ball roller	ESD	No.
	20	<b>3 842 541 008</b>

Material: Housing: Steel; zinc-plated  
Ball: Stainless steel

Ball roller EcoFlow Plastic	No.
	<b>3 842 564 744</b>

Material: Housing: POM  
Ball: POM

Transverse conveyor	ESD	No.	FS
	Set	<b>3 842 536 055</b>	8xFS1

Material: Bracket Steel; zinc-plated  
Ball: Stainless steel

Scope of delivery: Incl. 4 x bracket plates, fastening material (FS) for 8 mm slot

Corner piece	ESD	No.	FS
	Set	<b>3 842 536 056</b>	4xFS2

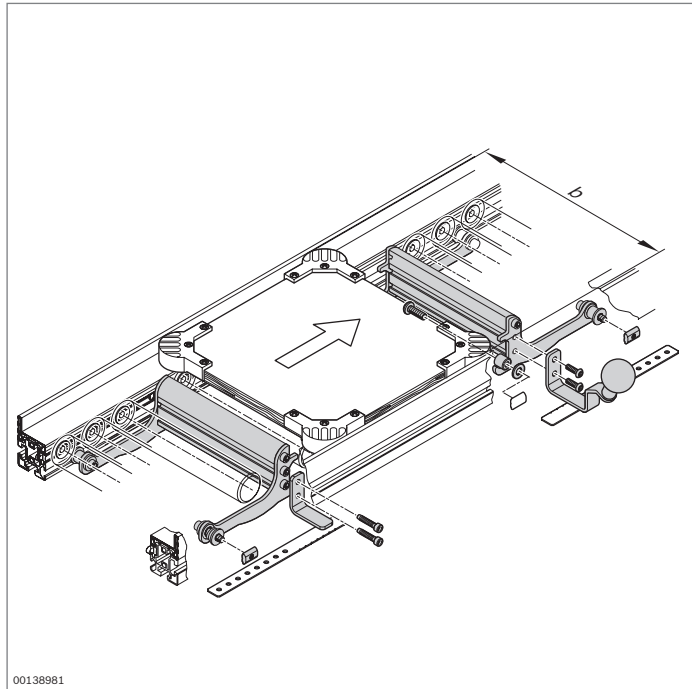
Material: PA; black

Scope of delivery: Incl. 2 x corner connector, fastening material (FS) for 10 mm slot

Stop	No.	FS
Set	<b>3 842 536 057</b>	2xFS3, 4xFS4, 2xFS5 2xFS6

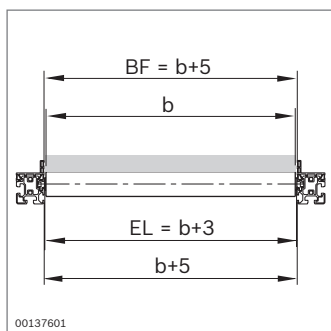
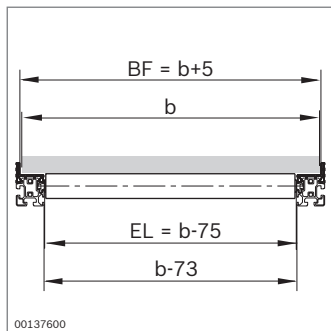
Material: Aluminum; anodized

Scope of delivery: Incl. 2 x stop, fastening material (FS)



### EcoFlow stop gates and return stops

- ▶ Stop gate and return stop for positioning workpiece pallets or containers
- ▶ At the planning stage remember to leave sufficient leg room. The stop gate and return stop require 45 mm more space below the bottom
- ▶ We recommend using a workpiece pallet with corner pieces (p. 12-31) to provide a defined stopping mechanism



Stop gate	EL (mm)	No.
	105 ... 1005	<b>3 842 995 007 / EL</b>
	225	<b>3 842 537 894</b>
	325	<b>3 842 537 895</b>
	425	<b>3 842 537 896</b>
	525	<b>3 842 537 897</b>

Scope of delivery: Incl. Fastening material

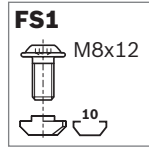
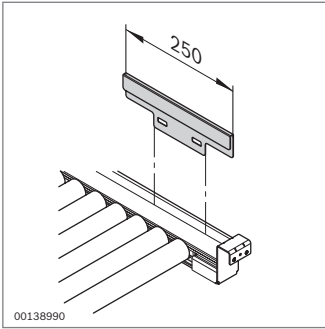
Condition on delivery: As components (pre-assembled)

Return stop	EL (mm)	No.
	105 ... 1005	<b>3 842 995 017 / EL</b>
	225	<b>3 842 537 898</b>
	325	<b>3 842 537 899</b>
	425	<b>3 842 537 900</b>
	525	<b>3 842 537 901</b>

Scope of delivery: Incl. Fastening material

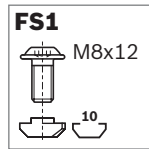
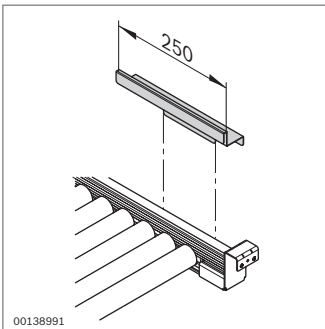
Condition on delivery: As components (pre-assembled)

## EcoFlow accessories



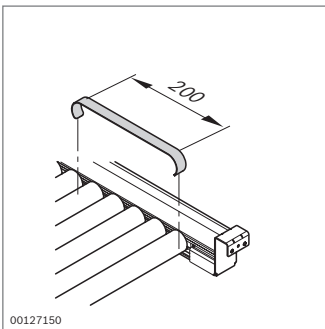
- Protective cover to protect the EcoFlow guide profile when loading the conveyor track

Protective cover		No.	FS
<b>Outer slide rail</b>	Set	<b>3 842 537 583</b>	4xFS1
Material:	Steel; zinc-plated		
Scope of delivery:	Incl. 2 x protective cover, fastening material (FS)		



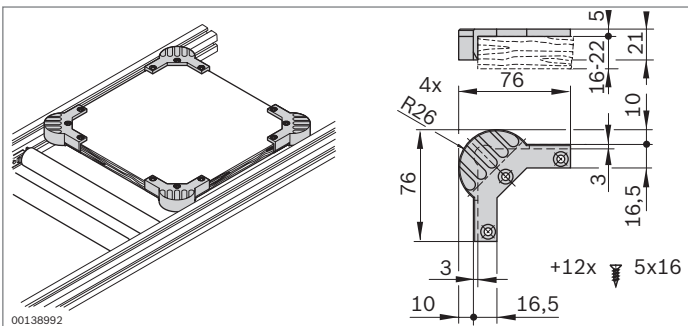
- Protective cover to protect the EcoFlow guide profile when loading the conveyor track

Protective cover		No.	FS
<b>Inner slide rail</b>	Set	<b>3 842 537 584</b>	4xFS1
Material:	Steel; zinc-plated		
Scope of delivery:	Incl. 2 x protective cover, fastening material (FS)		



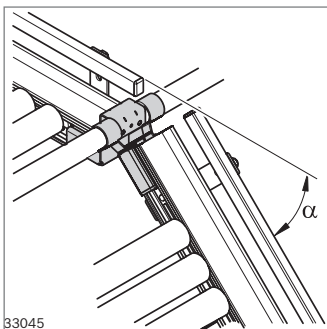
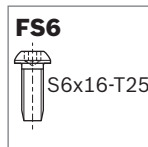
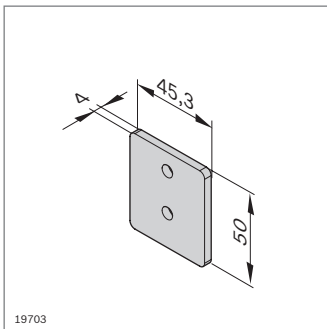
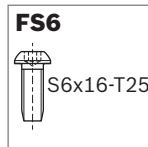
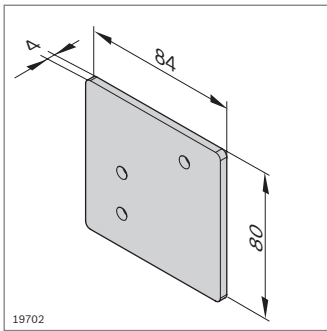
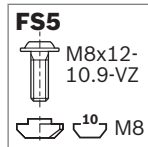
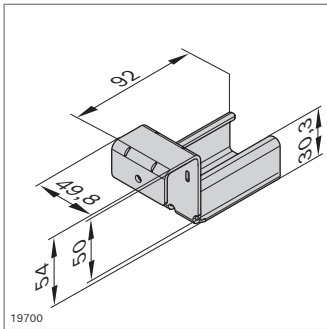
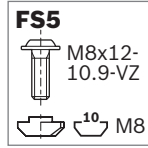
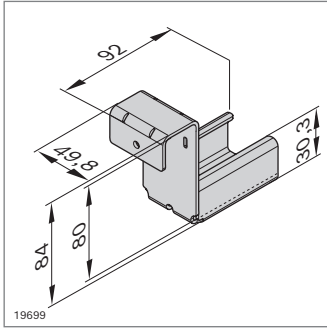
- Brake for bringing containers to a stop gently

Brake		No.
	20	<b>3 842 537 740</b>
Material:	Steel; zinc-plated	



- Corner pieces for assembly of workpiece pallets
- For isolating parts from the pallet queue, well-defined guidance and stopping surfaces, good transition through curves and avoidance of edges where trapping may occur

Corner pieces for workpiece pallets	ESD	No.
	Set	<b>3 842 536 054</b>
Material:	PA; black	



Rail holder with stop	No.	FS
	20	3 842 537 664 FS5

Material: Steel; zinc-plated  
 Accessories: Round tube D28 (p. 2-76)  
 Scope of delivery: Incl. fastening material (FS)

Rail holder without stop	No.	FS
	20	3 842 537 665 FS5

Material: Steel; zinc-plated  
 Accessories: Round tube D28 (p. 2-76)  
 Scope of delivery: Incl. fastening material (FS)

Stop plate with stop	No.	FS
	20	3 842 537 593 2xFS6

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

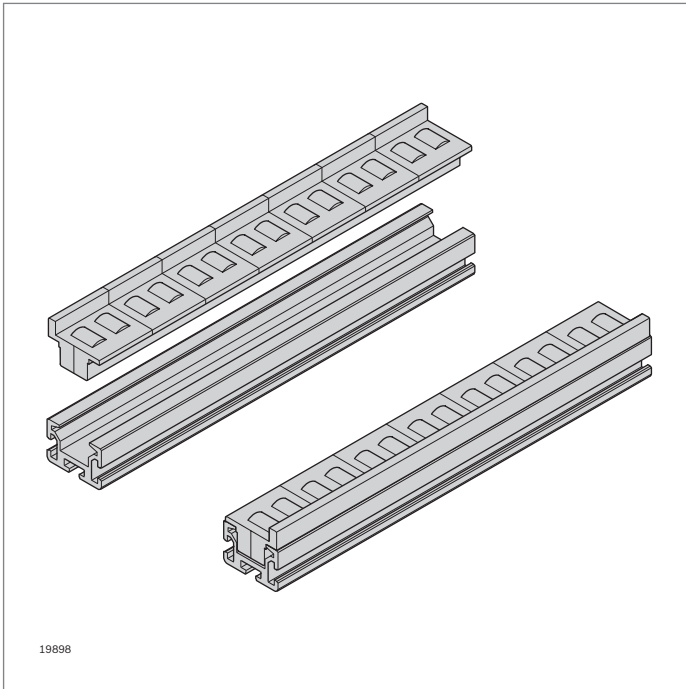
Stop plate without stop	No.	FS
	20	3 842 537 592 2xFS6

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

- Flexible bridge with maximum tilt ( $\alpha_{max}$ ) from horizontal:
  - With round tube D28 (p. 2-76):  $\alpha_{max} = 40^\circ$
  - With strut profile D28x55 (p. 2-77):  $\alpha_{max} = 30^\circ$

Flexible bridge	No.
	20 3 842 537 950

Material: Steel; zinc-plated



19898

### Conveyor track made of section profiles and roller elements

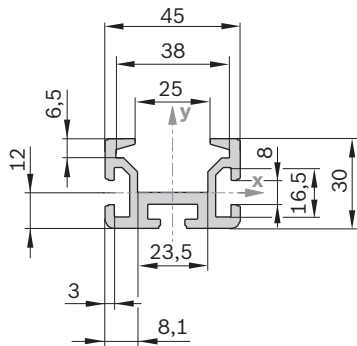
- ▶ Economical solution for manual slide sections
- ▶ Roller elements can be clipped in

Accessories:

Roller elements (p. 12-21)

#### SP 2/R

$A = 5,2 \text{ cm}^2$   
 $I_x = 4,3 \text{ cm}^4$   
 $I_y = 11,7 \text{ cm}^4$   
 $W_x = 2,4 \text{ cm}^3$   
 $W_y = 5,2 \text{ cm}^3$   
 $m = 1,4 \text{ kg/m}$

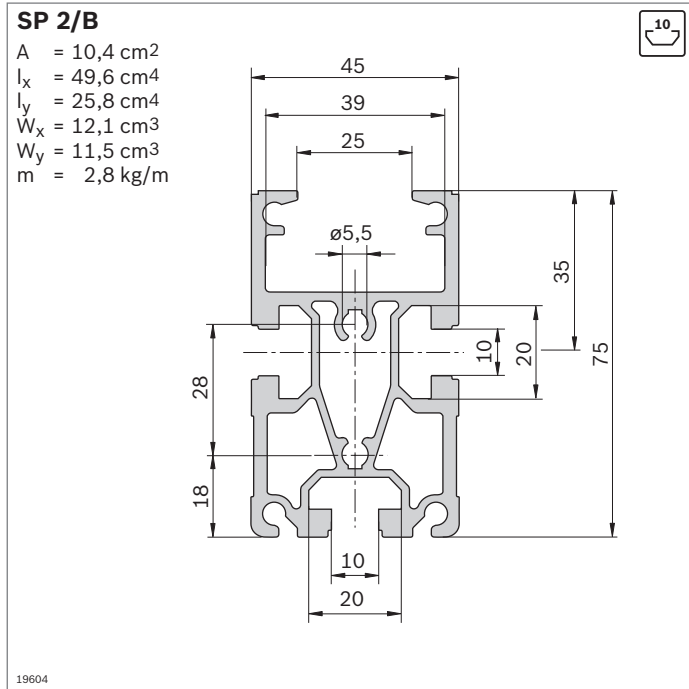


19893

Section profile SP 2/R	L (mm)	No.
------------------------	--------	-----

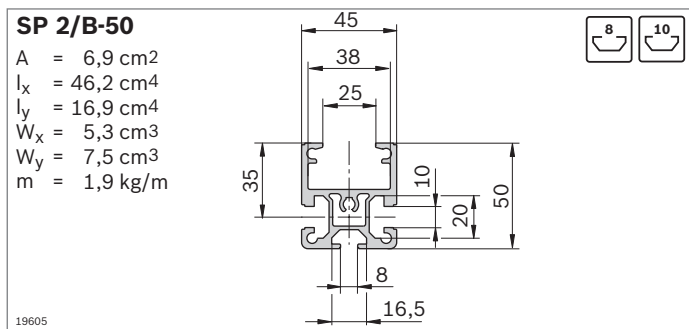
50 ... 6000 **3 842 992 676 / L**

Material: Aluminum, natural-colored, anodized



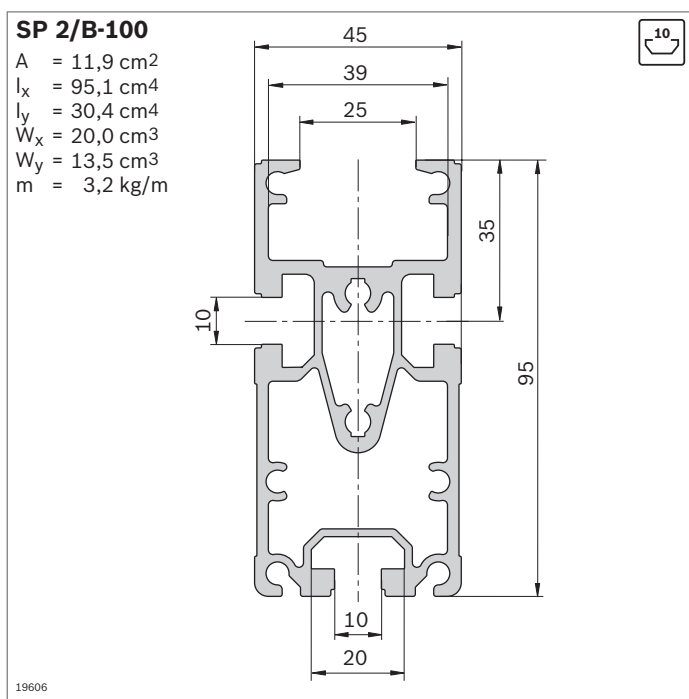
Section profile SP 2/B	Slot	L (mm)	No.
1 pc	10	200 ... 6070	<b>3 842 992 884 / L</b>
16 pcs	10	6070	<b>3 842 532 695</b>

Material: Aluminum, natural-colored, anodized



Section profile SP 2/B-50	Slot	L (mm)	No.
1 pc	8 / 10	200 ... 6070	<b>3 842 992 903 / L</b>
20 pcs	8 / 10	6070	<b>3 842 532 697</b>

Material: Aluminum, natural-colored, anodized

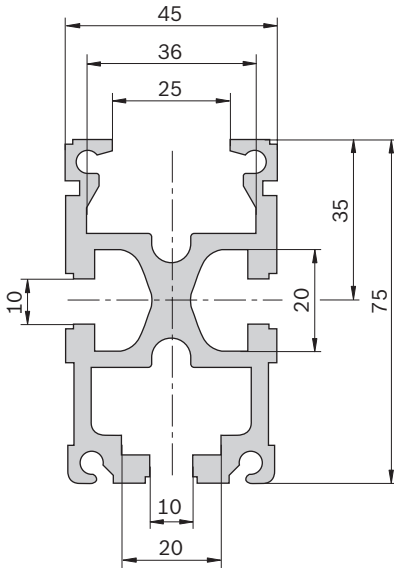


Section profile SP 2/B-100	Slot	L (mm)	No.
1 pc	10	200 ... 6070	<b>3 842 993 259 / L</b>
16 pcs	10	6070	<b>3 842 532 608sw</b>

Material: Aluminum, natural-colored, anodized

**SP 2/BH**

A = 12,4 cm<sup>2</sup>  
 $I_x = 53,7 \text{ cm}^4$   
 $I_y = 28,6 \text{ cm}^4$   
 $W_x = 14,0 \text{ cm}^3$   
 $W_y = 13,8 \text{ cm}^3$   
 m = 3,3 kg/m



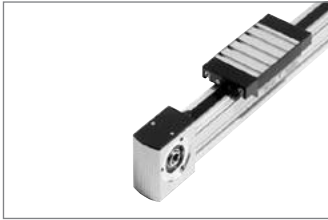
19607

Section profile SP 2/BH	Slot	L (mm)	No.
1 pc	10	200 ... 6070	<b>3 842 990 409 / L</b>
16 pcs	10	6070	<b>3 842 532 696</b>

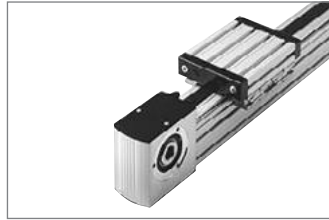
Material: Aluminum, natural-colored, anodized



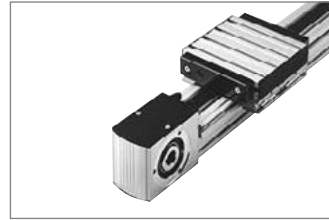
# Linear guides



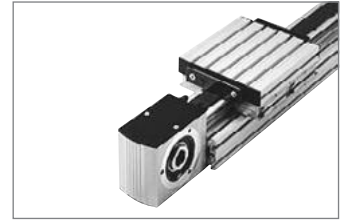
Cam roller guide LF6C  
(p. 13-6)



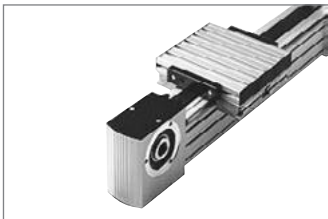
Cam roller guide LF12S  
(p. 13-11)



Cam roller guide LF12C  
(p. 13-18)



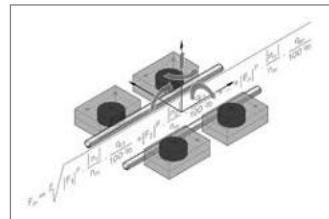
Cam roller guide LF20S  
(p. 13-25)



Cam roller guide LF20C  
(p. 13-32)



Plug-in shafts, synchronous  
shafts (p. 13-42)

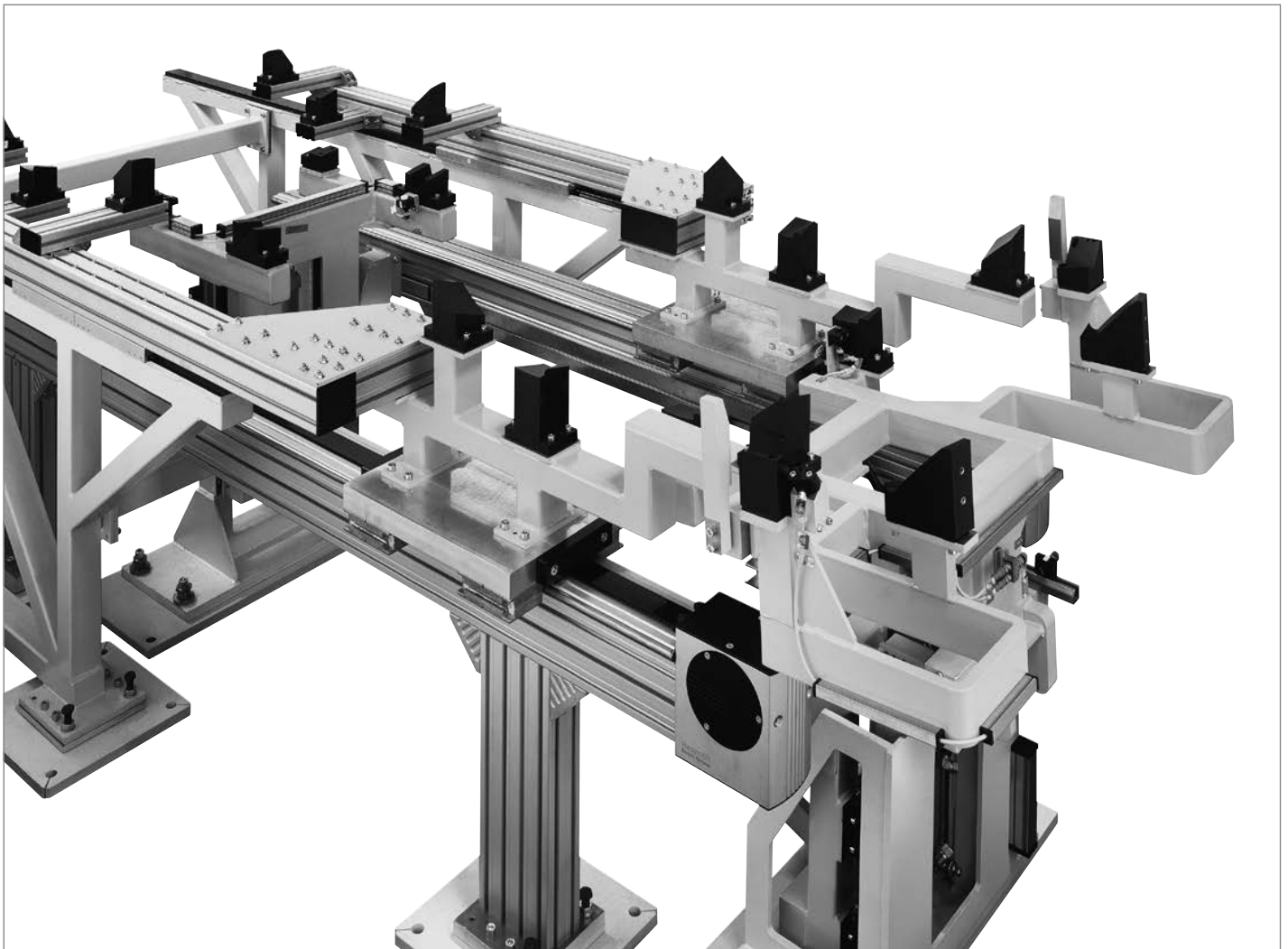


Design (p. 13-44)

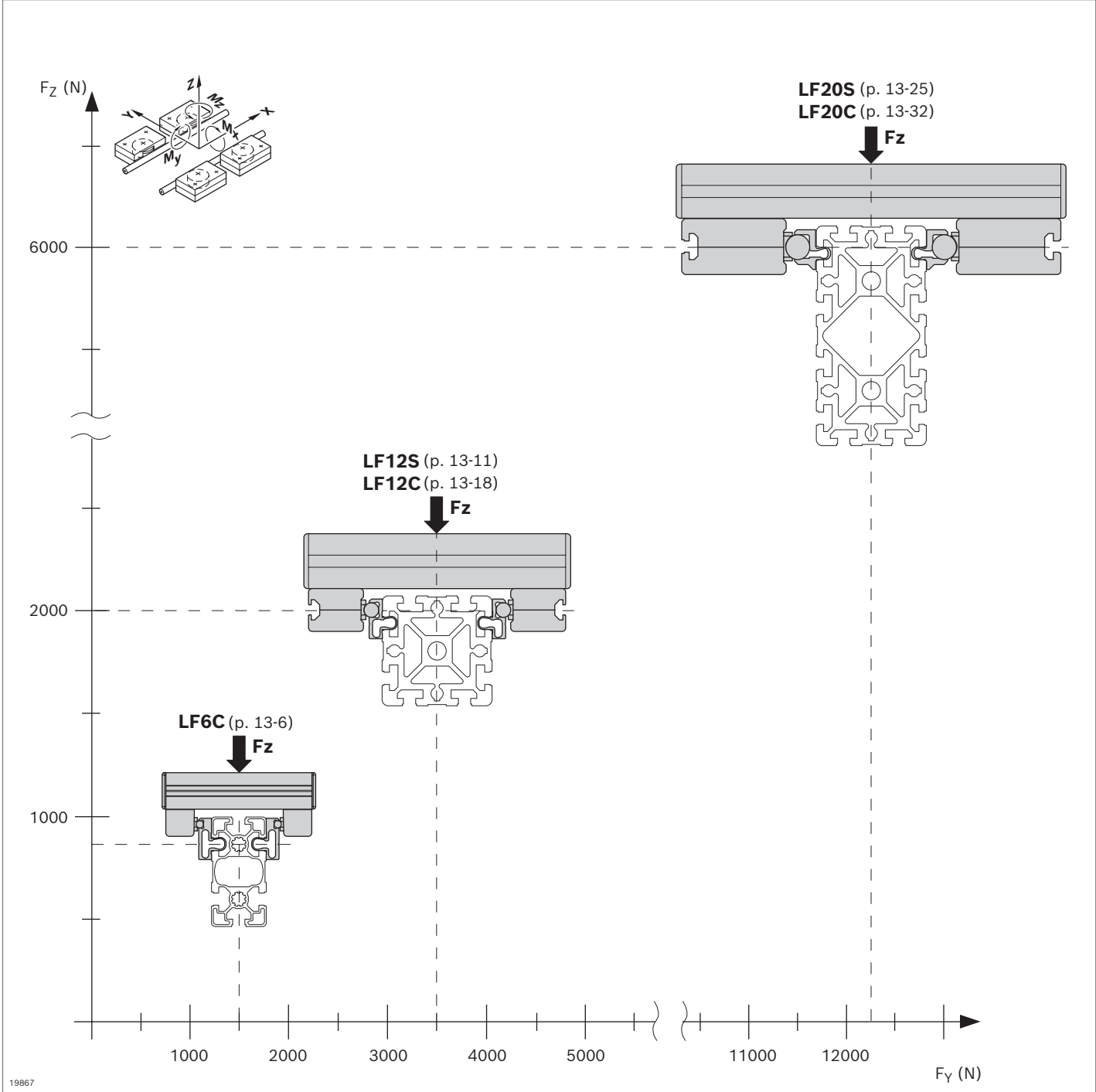


## Linear guides

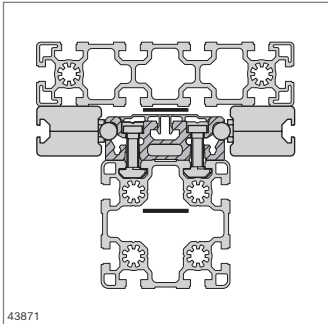
- ▶ For constructing linear guides based on cam roller guides
- ▶ Cam roller guides are suitable for applications with high speeds and medium loads, in particular for the construction of handling equipment, feed systems, guides in work machines, and many other applications.
- ▶ Fully pre-assembled in any required length or as individual components for assembly on site
- ▶ Without drive or with toothed belt drive for attaching gears and motors



**Linear guides – sizes, designs, and loads**



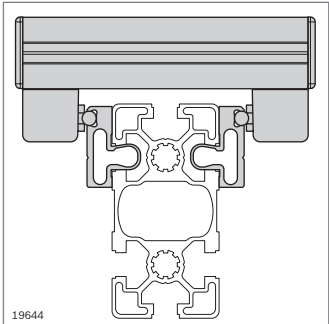
19867



43871

**LF...S**

- ▶ Compact construction
- ▶ Fixed track width
- ▶  $v_{max} = 5 \text{ m/s}$



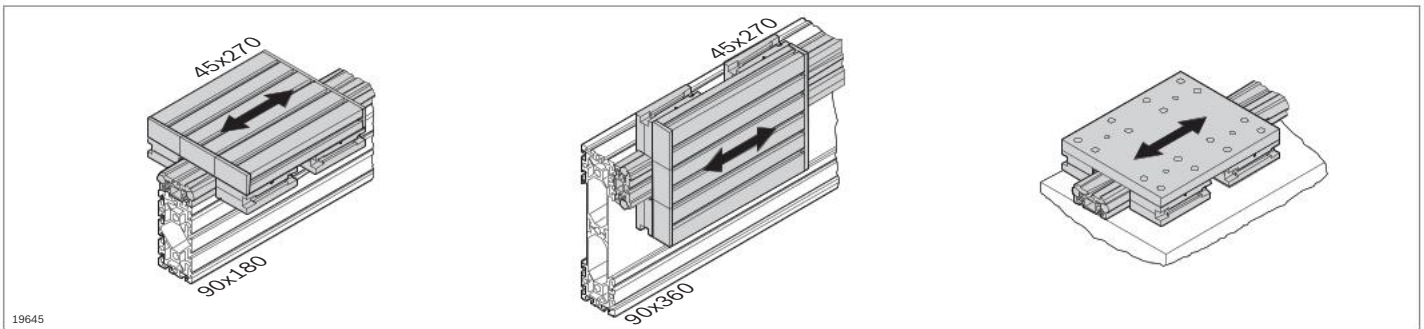
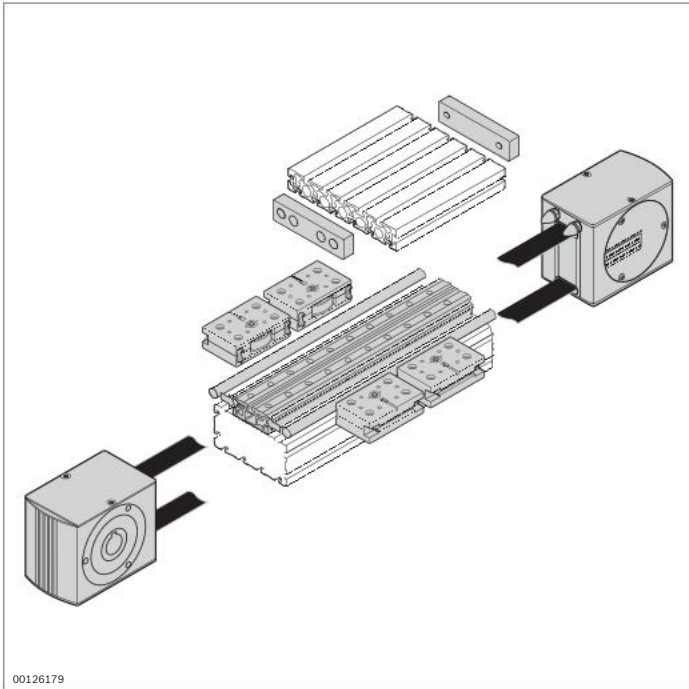
19644

**LF...C**

- ▶ Freely selectable track width for greater torque absorption
- ▶  $v_{max} = 5 \text{ m/s}$

### Cam roller guides LF...S

- ▶ Cam roller guide LF...S with fixed track widths
- ▶ Guide rail made of aluminum with hardened and polished VA guide rods
- ▶ Simple mounting on strut profile or directly on flat surface, e.g. on a machine
- ▶ High precision, dimensional stability and torsional rigidity
- ▶ Lighter and cheaper than steel guides
- ▶ Light trolley with good torsional rigidity
- ▶ Freely selectable trolley lengths
- ▶ Freely selectable stroke lengths possible
- ▶ High permissible speed



The support profiles shown here are examples

**LF12S**

90x90L

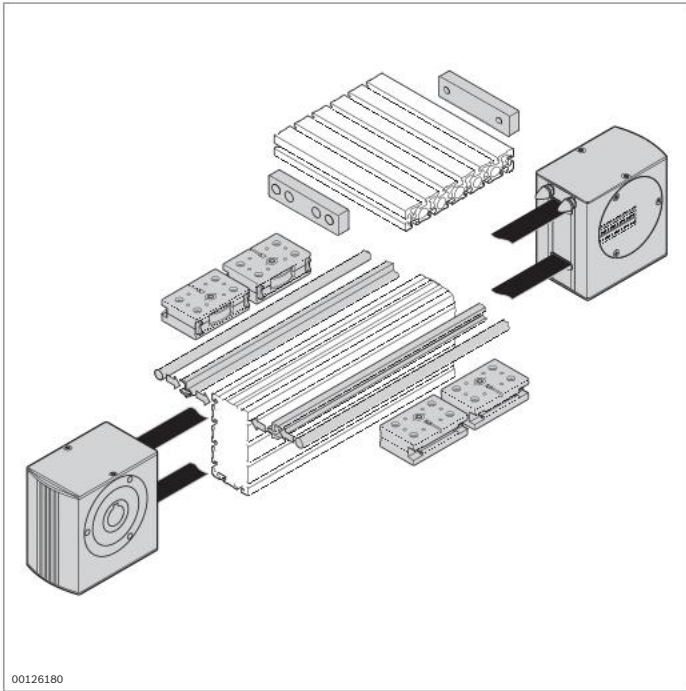
$F_y \text{ max} = 3500 \text{ N}$   
 $F_z \text{ max} = 2000 \text{ N}$   
 $M_x \text{ max} = 78 \text{ Nm}$   
 $v_{\text{max}} = 5 \text{ m/s}$

**LF20S**

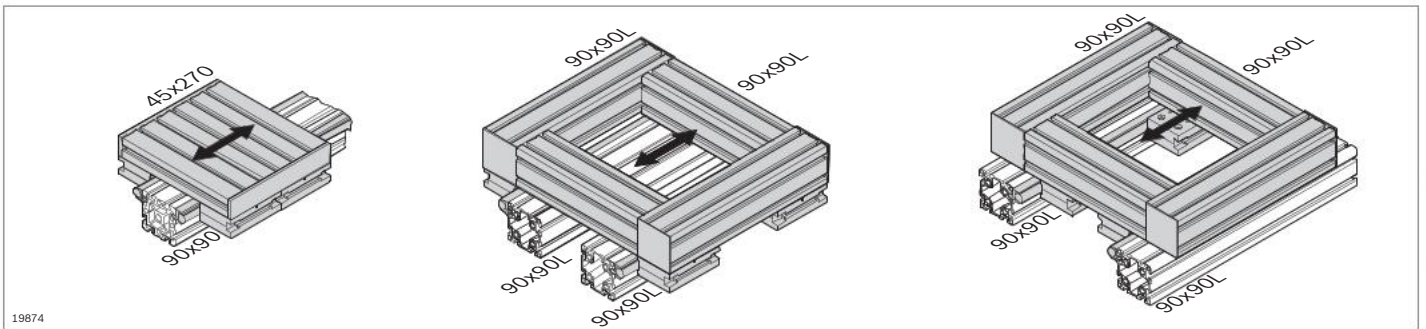
90x180

$F_y \text{ max} = 12500 \text{ N}$   
 $F_z \text{ max} = 6000 \text{ N}$   
 $M_x \text{ max} = 240 \text{ Nm}$   
 $v_{\text{max}} = 5 \text{ m/s}$

### Cam roller guides LF...C



- ▶ Cam roller guide LF...C for free choice of track widths and large track widths
- ▶ Clamping profile made of aluminum with hardened and polished VA guide rods
- ▶ Easy assembly through clipping the clamping profile into the slots of any Rexroth profile with 10 mm slot
- ▶ Optimally adjustable to different loads
- ▶ Greater torque absorption due to a C construction and free choice of track width
- ▶ Light trolley with good torsional rigidity
- ▶ Freely selectable trolley lengths and widths
- ▶ Freely selectable stroke lengths possible
- ▶ High permissible speed



13

The support profiles shown here are examples

**LF6C**

45x90  
B (=64)

**LF12C**

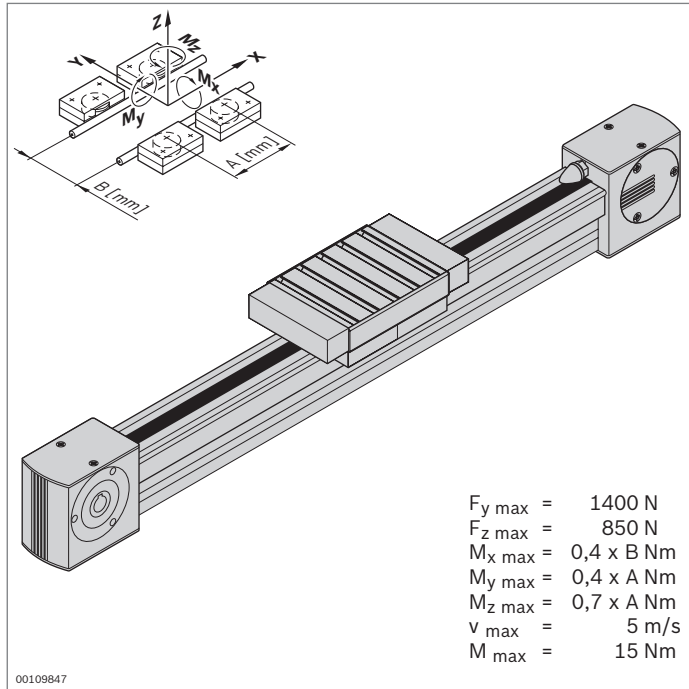
90x90  
B (=108)

**LF20C**

90x180  
B (=120)

<p><math>F_y \text{ max} = 1400 \text{ N}</math>  <math>F_z \text{ max} = 850 \text{ N}</math>  <math>M_x \text{ max} = 0,4 \times B \text{ Nm}</math>  <math>M_x \text{ max} = 25,6 \text{ Nm (B=64mm)}</math>  <math>v_{\text{max}} = 5 \text{ m/s}</math></p>	<p><math>F_y \text{ max} = 3500 \text{ N}</math>  <math>F_z \text{ max} = 2000 \text{ N}</math>  <math>M_x \text{ max} = 1,0 \times B \text{ Nm}</math>  <math>M_x \text{ max} = 108 \text{ Nm (B=108mm)}</math>  <math>v_{\text{max}} = 5 \text{ m/s}</math></p>	<p><math>F_y \text{ max} = 12500 \text{ N}</math>  <math>F_z \text{ max} = 6000 \text{ N}</math>  <math>M_x \text{ max} = 3,0 \times B \text{ Nm}</math>  <math>M_x \text{ max} = 360 \text{ Nm (B=120 mm)}</math>  <math>v_{\text{max}} = 5 \text{ m/s}</math></p>
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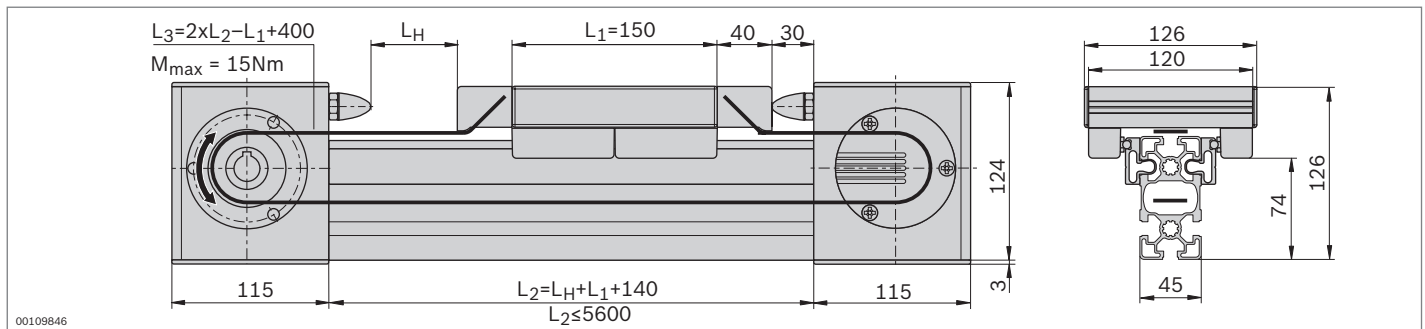
19647



### Cam roller guide LF6C – complete axis



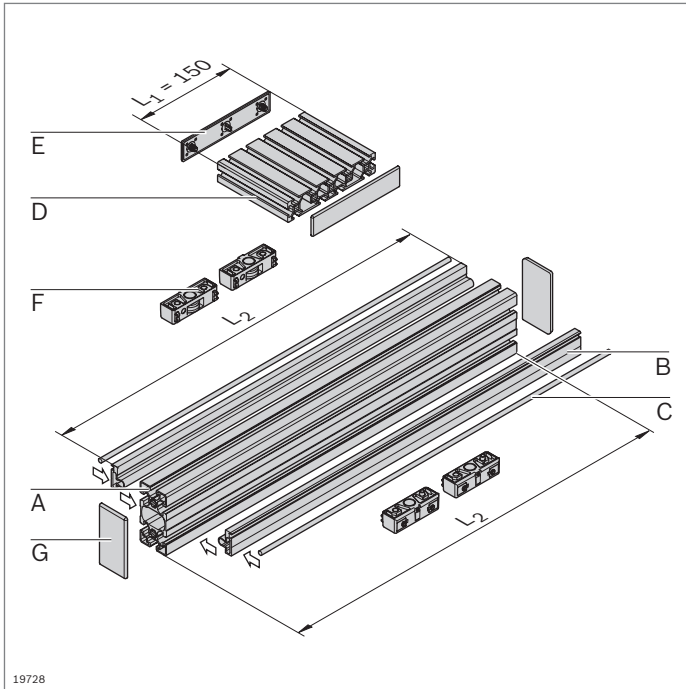
- ▶ Fully assembled cam roller guide
- ▶ Stroke can be individually selected
- ▶ Clamping profile clipped into strut profile 45x90L
- ▶ Incl. toothed belt drive; additional notes on the drive concept (p. 13-39)



### Technical data

For notes on layout and drive, see page 13-45

Complete axis	$L_H$ (mm)	No.
LF6C	50 ... 5310	3 842 998 496 / $L_H$



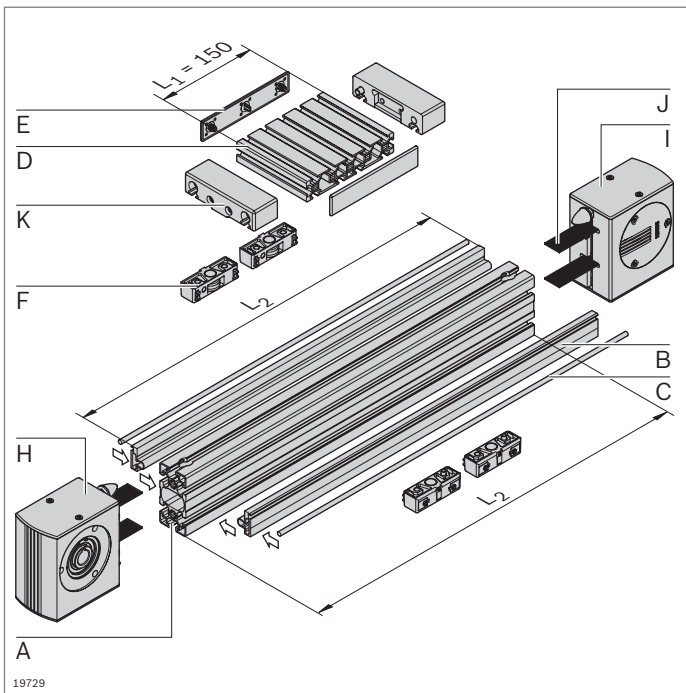
19728

### Cam roller guide LF6C – components

► Components for the individual assembly of cam roller guides, with or without drive

#### Parts list for cam roller guide LF6C without drive

Component	No.	Pcs	Page
A Profile 45x90L	3 842 992 432 / $L_2$	1	2-43
B Clamping profile LF6C	3 842 992 925 / $L_2$	2	13-8
C Guide rod LF6	3 842 993 967 / $L_2$	2	13-8
D Trolley profile LF6C	3 842 993 952 / 120 mm	1	13-8
E Cover cap LF6C	3 842 539 120	2	13-9
F Guide bearing LF6	3 842 535 662	4	13-8
G Cover cap 45x90	3 842 548 757	2	2-43

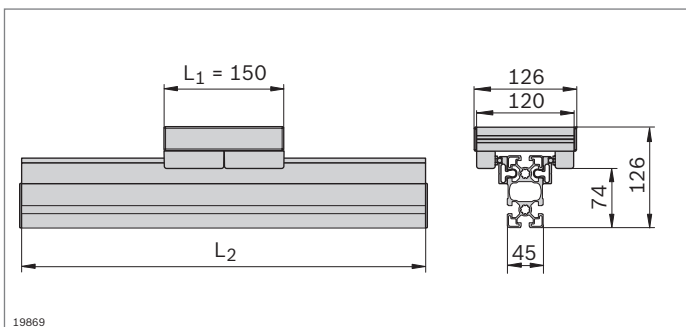


19729

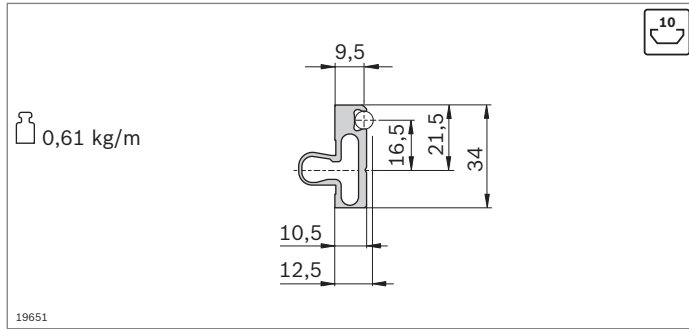
#### Parts list for cam roller guide LF6C with drive

Component	No.	Pcs	Page
A Profile 45x90L LF6C	3 842 993 084 / $L_2$	1	2-43
B Clamping profile LF6C	3 842 992 925 / $L_2$	2	13-8
C Guide rod LF	3 842 993 967 / $L_2$	2	13-8
D Trolley profile LF6C	3 842 993 952 / 120 mm	1	13-8
E Cover cap LF6C	3 842 539 120	2	13-9
F Guide bearing LF6	3 842 535 662	4	13-8
H Drive head LF6C	3 842 526 416	1	13-9
I Return head LF6C	3 842 526 417	1	13-10
J Toothed belt LF6C	3 842 994 711 / $L_3$ <sup>1)</sup>	1	13-10
K Belt connector LF6C	3 842 535 681	2	13-10

<sup>1)</sup>  $L_3 = 2 \times L_2 - L_1 + 400$



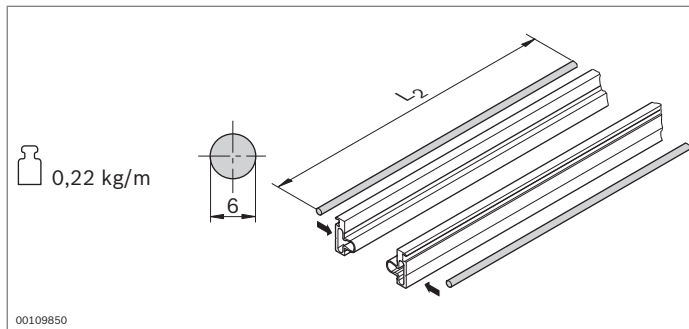
19869



- ▶ The clamping profile is clipped into any 10 mm slot of the strut profile and it holds the guide rods

Clamping profile	L <sub>2</sub> (mm)	No.
LF6C	1 pc 150 ... 3000	<b>3 842 992 925 / L<sub>2</sub></b>
	20 pcs 3000	<b>3 842 518 896</b>

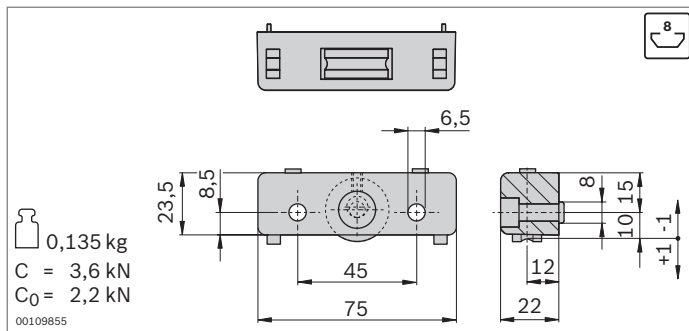
Material: Aluminum; anodized



- ▶ The guide rod is pressed into the clamping profile
- ▶ The guide rod guides the guide bearing

Guide rod	L <sub>2</sub> (mm)	No.
LF6	150 ... 3000	1 <b>3 842 993 967 / L<sub>2</sub></b>
	3000	20 <b>3 842 539 414</b>

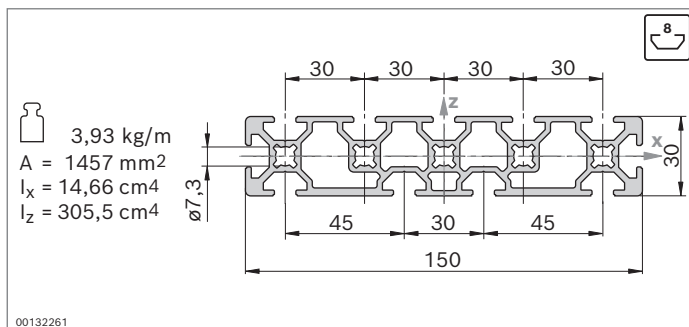
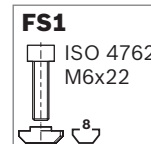
Material: Solid shaft VA, induction hardened, polished  
 Condition on delivery: Ungreased; greasing according to assembly instructions **3 842 527 226**



- ▶ Guide bearing for trolley construction
- ▶ Guiding via guide rod
- ▶ Cam rollers with ball bearings, permanently lubricated
- ▶ Lubricating felts with guide rod lubrication reservoir
- ▶ Play-free cam roller adjustment via eccentric bolts

Guide bearing	No.	FS
LF6	2 <b>3 842 535 662</b>	2xFS1

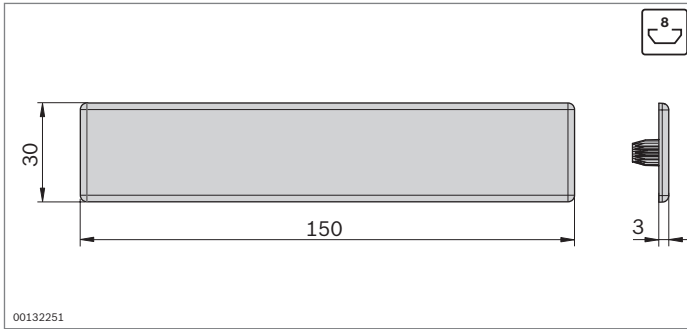
Material: Housing: Diecast aluminum  
 Cam roller: Steel, hardened, polished  
 Scope of delivery: Incl. fastening material (FS)  
 Condition on delivery: Lubricating felts ungreased; greasing according to assembly instructions **3 842 527 226**



- ▶ Trolley profile for the construction of trolley LF6C

Trolley profile	L (mm)	No.
LF6C	150 ... 3000	<b>3 842 993 952 / L</b>

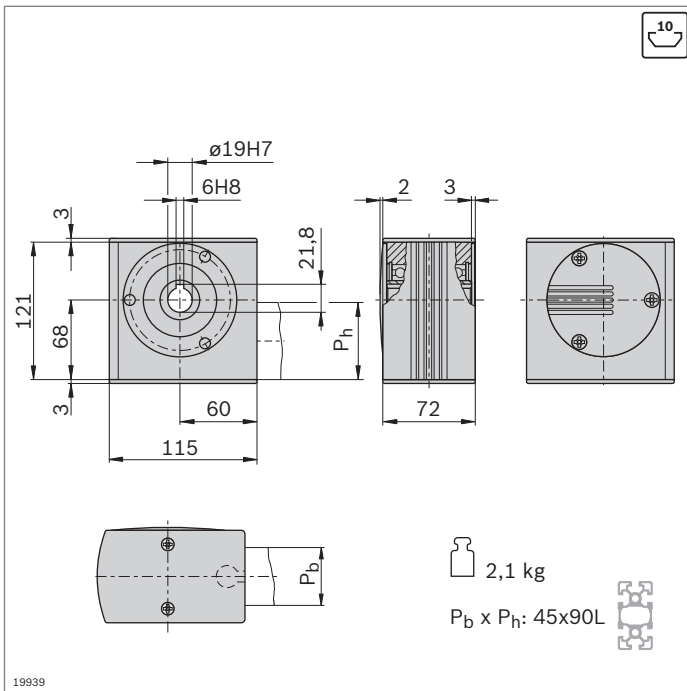
Material: Aluminum; anodized



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- ▶ Cover cap for trolley profile LF6C
- ▶ For use on trolleys which are not driven by a toothed belt

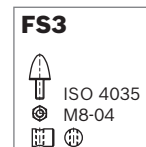
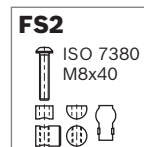
Cover cap	No.
LF6C	2 3 842 539 120
Material:	PA; black

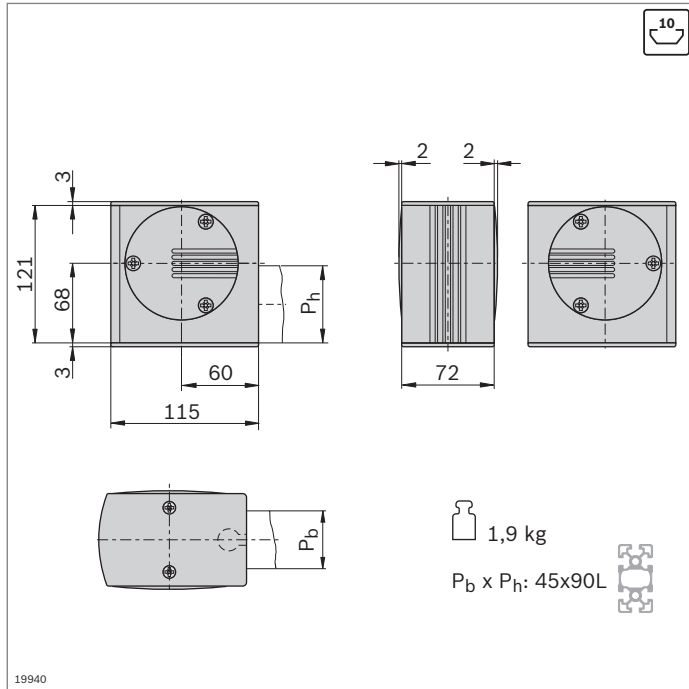


19939

- ▶ Drive head for transferring drive torque to a toothed belt
- ▶ For direct mounting of a motor or (in conjunction with a plug-in shaft) for mounting a hollow shaft gear or a coupling (p. 13-41)
- ▶ Mounted directly on profile 45x90L using longitudinal end connector
- ▶ Profile finishing: LF blind hole drilling for longitudinal end connector

Drive head	No.	FS
LF6C	3 842 526 416	2xFS2, FS3
Material:	Aluminum; anodized Hollow shaft: Steel; zinc-plated Cover caps: PA; black	
Scope of delivery:	Incl. fastening material (FS), cover caps	



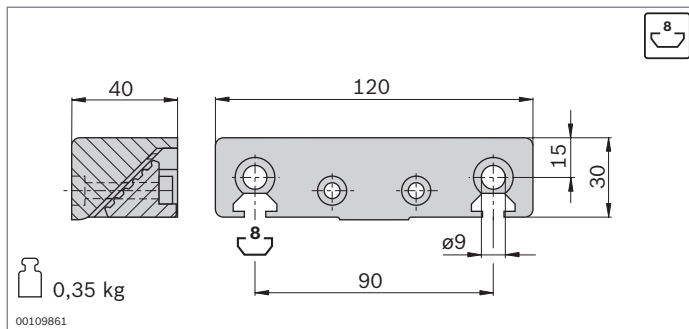
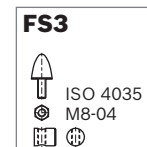
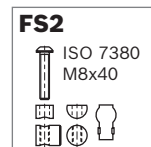


- ▶ Return head for tensioning the toothed belt and changing its direction
- ▶ Mounted directly on profile 45x90L using longitudinal end connector
- ▶ Profile finishing: LF blind hole drilling for longitudinal end connector

Return head	No.	FS
LF6C	3 842 526 417	2xFS2, FS3

Material: Aluminum; anodized  
Hollow shaft: Steel; zinc-plated  
Cover caps: PA; black

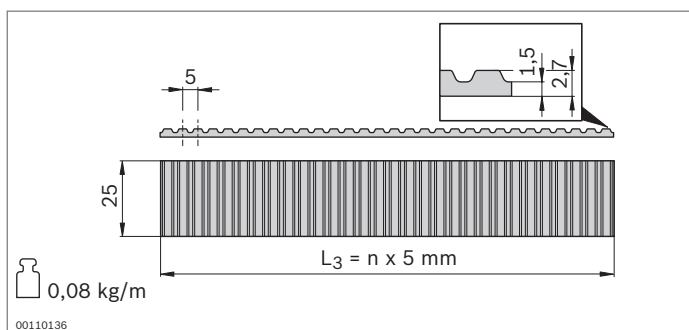
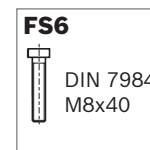
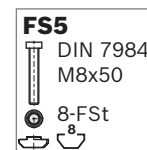
Scope of delivery: Incl. fastening material (FS), cover caps



- ▶ Belt connector for fastening the toothed belt to the trolley slot
- ▶ All connecting parts for mounting on the trolley profile LF6C are included

Belt connector	No.	FS
LF6C	2 3 842 535 681	2xFS4, 2xFS5, 2xFS6

Material: Aluminum, painted black  
Scope of delivery: Incl. fastening material (FS)

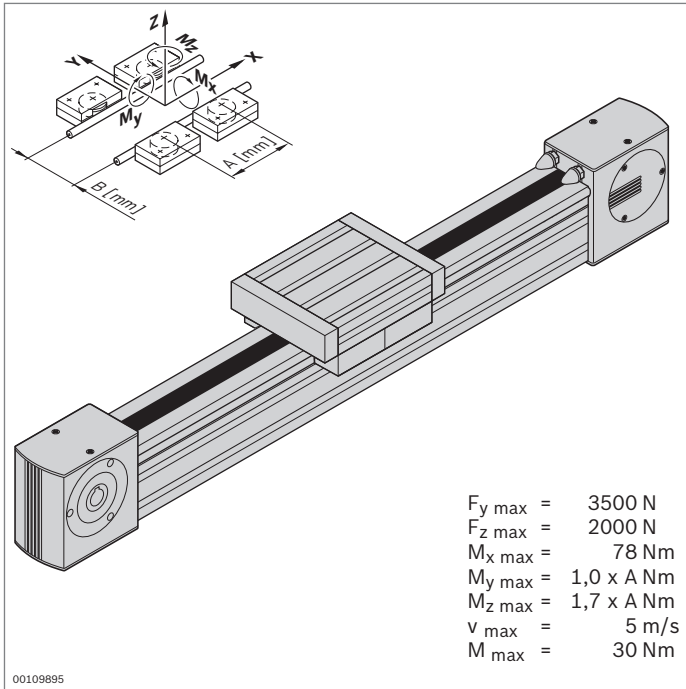


- ▶ Toothed belt as a trolley drive
- ▶ Pitch: AT5

Toothed belt	L <sub>3</sub> (mm)	No.
LF6C	300 ... 50000	3 842 994 711 / L <sub>3</sub> <sup>1)</sup>
	50000	3 842 518 856

<sup>1)</sup> L<sub>3</sub> = 2xL<sub>2</sub> - L<sub>1</sub> + 400

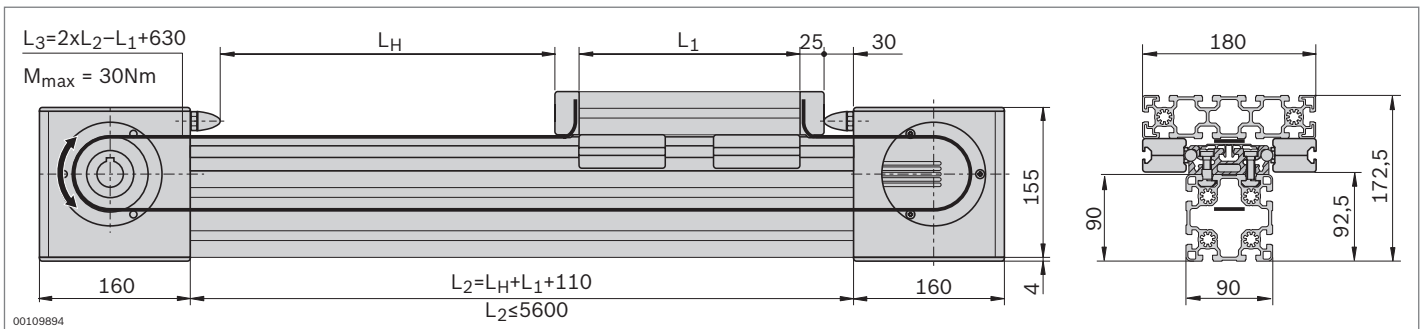
Material: PU with embedded steel wires



### Cam roller guide LF12S - complete axis



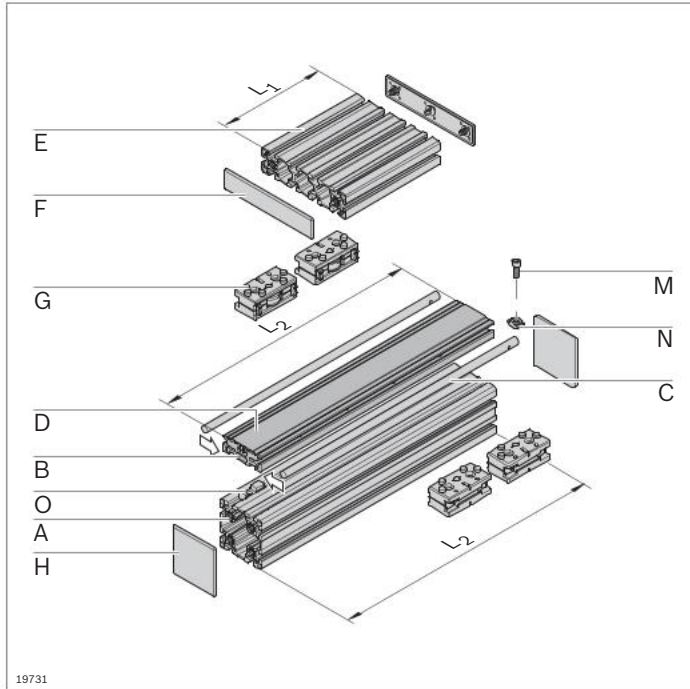
- ▶ Fully assembled cam roller guide
- ▶ Stroke and trolley length can be individually selected
- ▶ Rail profile screwed onto strut profile 90x90L
- ▶ Incl. toothed belt drive; additional notes on the drive concept (p. 13-39)



#### Technical data

For notes on layout and drive, see page 13-45

Complete axis	$L_H / L_1$ (mm)	No.
LF12S	$L_1 + 50 \leq L_H \leq 5310$ $180 \leq L_1 \leq 1000$	3 842 998 497 / $L_H / L_1$



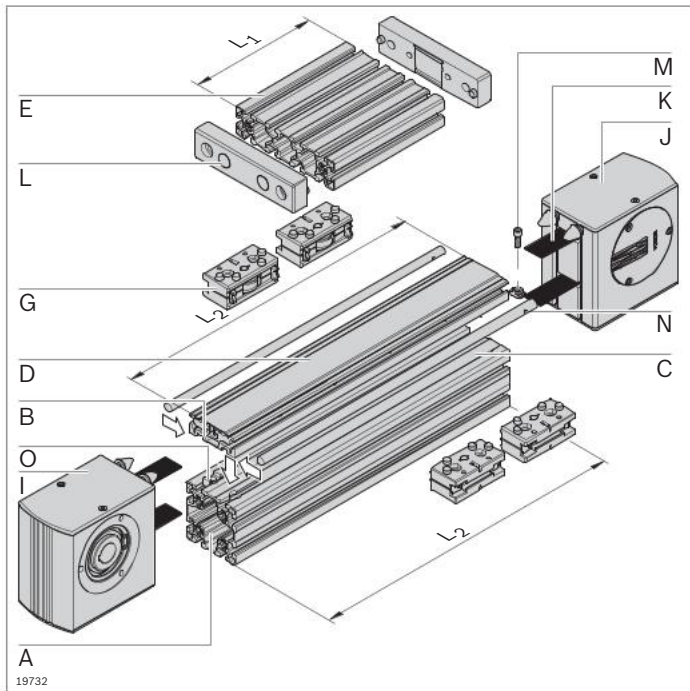
### Cam roller guide LF12S – components

► Components for the individual assembly of cam roller guides, with or without drive

#### Parts list for cam roller guide LF12S without drive

Component	No.	Pcs	Page
<b>A</b> Profile 90x90L	<b>3 842 992 415 / L<sub>2</sub></b>	1	2-48
<b>B</b> Guide profile LF12S	<b>3 842 992 438 / L<sub>2</sub></b>	1	13-13
<b>C</b> Guide rod LF12	<b>3 842 993 968 / L<sub>2</sub></b>	2	13-13
<b>D</b> Cover profile LF12S	<b>3 842 993 062 / L<sub>2</sub></b>	1	13-13
<b>E</b> Profile 45x180	<b>3 842 990 335 / L<sub>1</sub></b>	1	2-46
<b>F</b> Cover cap 45x180	<b>3 842 548 795</b>	2	2-46
<b>G</b> Guide bearing LF12	<b>3 842 535 664</b>	4	13-14
<b>H</b> Cover cap 90x90L	<b>3 842 548 759</b>	2	2-48
<b>M</b> Cylinder head screw DIN 7984 – M8x30		n <sup>1)</sup>	
<b>N</b> T-nut M8, 10 mm slot	<b>3 842 530 287</b>	n <sup>1)</sup>	3-4
<b>O</b> Sliding block	<b>3 842 146 877</b>	n <sup>1)</sup>	13-13

<sup>1)</sup> For identification see page 13-13

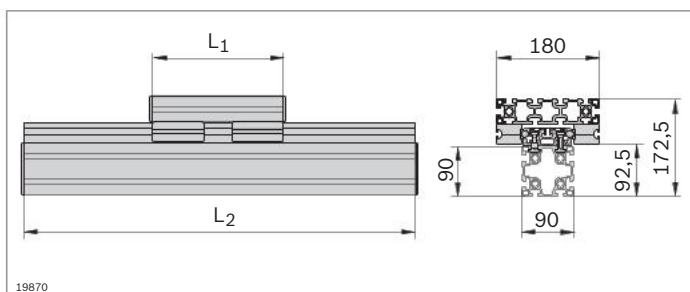


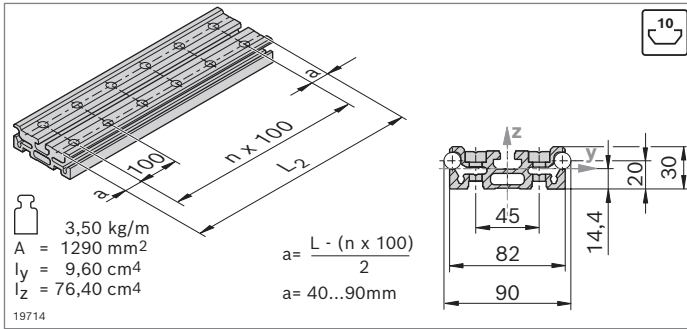
#### Parts list for cam roller guide LF12S with drive

Component	No.	Pcs	Page
<b>A</b> Profile 90x90L LF12S	<b>3 842 992 418 / L<sub>2</sub></b>	1	2-48
<b>B</b> Guide profile LF12S	<b>3 842 992 438 / L<sub>2</sub></b>	1	13-13
<b>C</b> Guide rod LF12	<b>3 842 993 968 / L<sub>2</sub></b>	2	13-13
<b>D</b> Cover profile LF12S	<b>3 842 993 062 / L<sub>2</sub></b>	1	13-13
<b>E</b> Profile 45x180 M12	<b>3 842 990 339 / L<sub>1</sub></b>	1	2-46
<b>G</b> Guide bearing LF12	<b>3 842 535 664</b>	4	13-14
<b>I</b> Drive head LF12S	<b>3 842 526 412</b>	1	13-16
<b>J</b> Return head LF12S	<b>3 842 526 413</b>	1	13-16
<b>K</b> Toothed belt	<b>3 842 994 821 / L<sub>3</sub><sup>1)</sup></b>	1	13-17
<b>L</b> Belt connector	<b>3 842 535 680</b>	2	13-17
<b>M</b> Cylinder head screw DIN 7984 – M8x30		n <sup>2)</sup>	
<b>N</b> T-nut M8, 10 mm slot	<b>3 842 530 287</b>	n <sup>2)</sup>	3-4
<b>O</b> Sliding block	<b>3 842 146 877</b>	n <sup>2)</sup>	13-13

<sup>1)</sup> L<sub>3</sub> = 2xL<sub>2</sub> - L<sub>1</sub> + 630

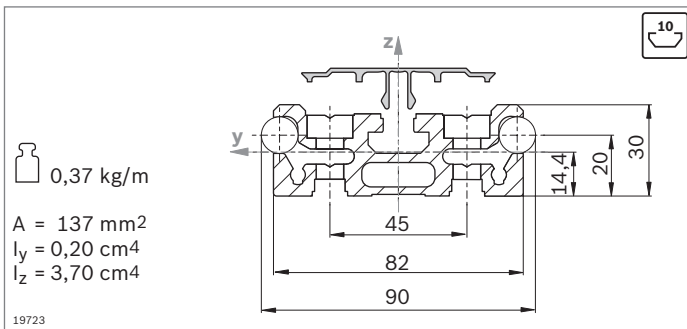
<sup>2)</sup> For identification see page 13-13





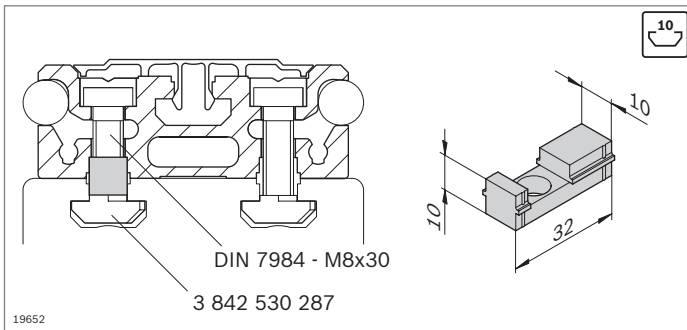
- ▶ Guide profile LF12S to hold the guide rods
- ▶ Installation on MGE strut profiles with 10 mm slot or directly on a flat surface

Guide profile	L <sub>2</sub> (mm)	No.
<b>LF12S</b>	180 ... 6070	<b>3 842 992 438 / L<sub>2</sub></b>
	6 pcs	6070 <b>3 842 557 945</b>
Material:	Aluminum; anodized	
Accessories:	Cylinder bolt DIN 7984 – M8x30 T-nut M8, 10 mm slot, <b>3 842 530 287</b> Sliding block, cover profile, guide rod	



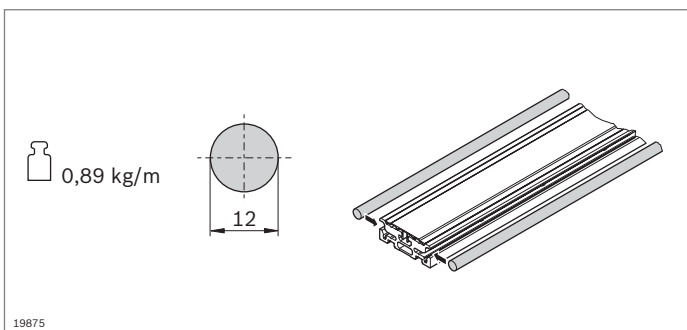
- ▶ Cover profile to prevent contamination on threaded connections

Cover profile	L <sub>2</sub> (mm)	No.
<b>LF12S</b>	150 ... 5600	<b>3 842 993 062 / L<sub>2</sub></b>
Material:	Aluminum; anodized	



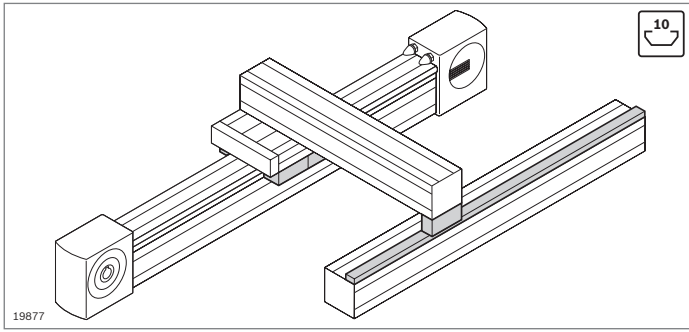
- ▶ Sliding block as a centering aid for mounting the guide profile in a 10 mm profile slot

Sliding block	No.
	50 <b>3 842 146 877</b>
Material:	PA; black

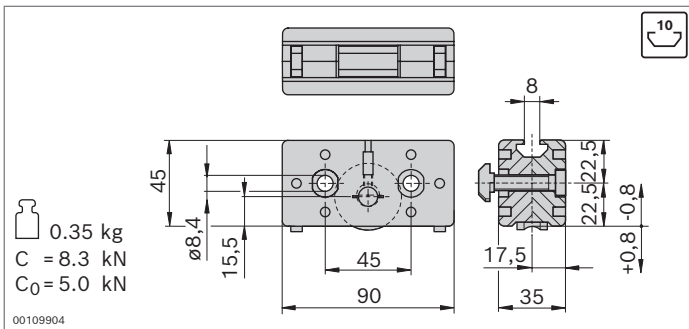


- ▶ The guide rod is pressed into the guide profile
- ▶ The guide rod guides the guide bearing

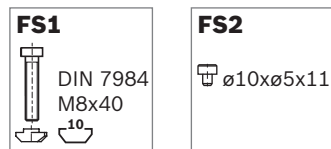
Guide rod	L <sub>2</sub> (mm)	No.
<b>LF12</b>	150 ... 2900	1 <b>3 842 993 968 / L<sub>2</sub></b>
	2900	20 <b>3 842 539 415</b>
Material:	Solid shaft VA, induction hardened and polished	
Condition on delivery:	Ungreased; greasing according to assembly instructions <b>3 842 527 226</b>	



- ▶ Guide bearing for trolley construction
- ▶ Supporting bearing for brackets for bearing off-center forces
- ▶ Guide rail to support supporting bearings (p. 13-15)



- ▶ Guide bearing for trolley construction
- ▶ Guiding via guide rod
- ▶ Cam rollers with ball bearings, permanently lubricated
- ▶ Lubricating felts with guide rod lubrication reservoir
- ▶ Play-free cam roller adjustment via eccentric bolts
- ▶ Replacement of the lubricating felts possible from rear in installed state

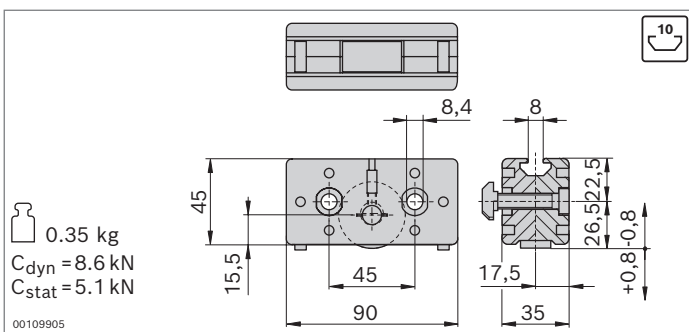


Guide bearing	No.	FS
LF12	2 3 842 535 664	2xFS1, 4xFS2

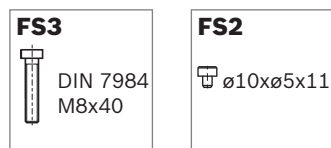
Material: Housing: Diecast aluminum  
Cam roller: Steel, hardened, polished

Scope of delivery: Incl. fastening material (FS)

Condition on delivery: Lubricating felts ungreased; greasing according to assembly instructions **3 842 527 226**



- ▶ Supporting bearing for brackets for bearing off-center forces
- ▶ For support on the guide rail
- ▶ Cam rollers with ball bearings, permanently lubricated
- ▶ Lubricating felts with guide rod lubrication reservoir
- ▶ Play-free cam roller adjustment via eccentric bolts
- ▶ Replacement of the lubricating felts possible from rear in installed state

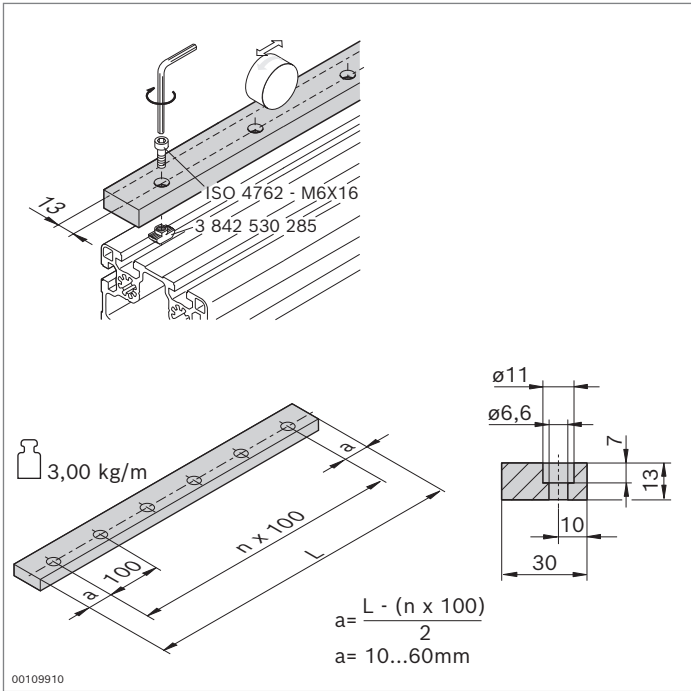


Supporting bearing	No.	FS
LF12	2 3 842 535 666	2xFS3 4xFS2

Material: Housing: Diecast aluminum  
Cam roller: Steel, hardened, polished

Scope of delivery: Incl. fastening material (FS)

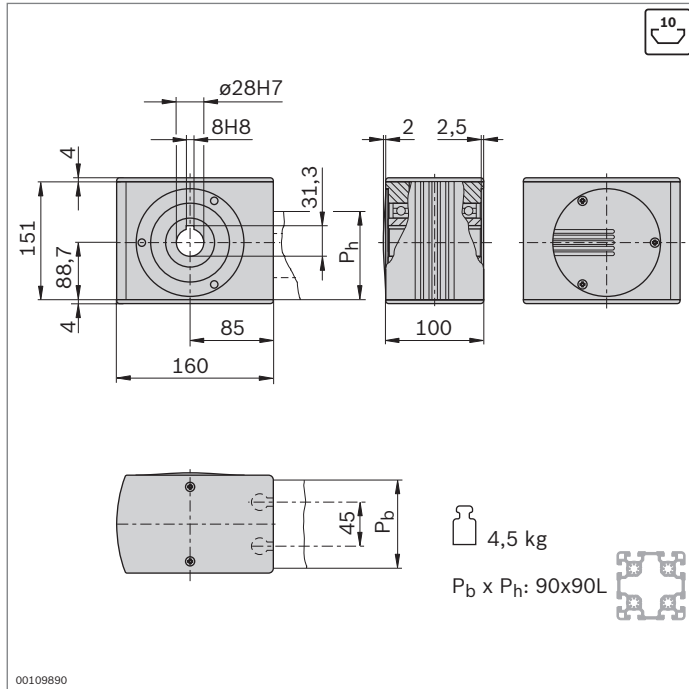
Condition on delivery: Lubricating felts ungreased; greasing according to assembly instructions **3 842 527 226**



► Guide rail to hold supporting bearings

Guide rail	L (mm)	No.
<b>LF12</b>	120 ... 2000	<b>3 842 994 702 / L</b>

- Material: Steel, hardened, polished
- Condition on delivery: Ungreased; greasing according to assembly instructions **3 842 527 226**
- Accessories: Cylinder head screw ISO 4762 – M6x16  
T-nut M6, 10 mm slot (**3 842 530 285**)

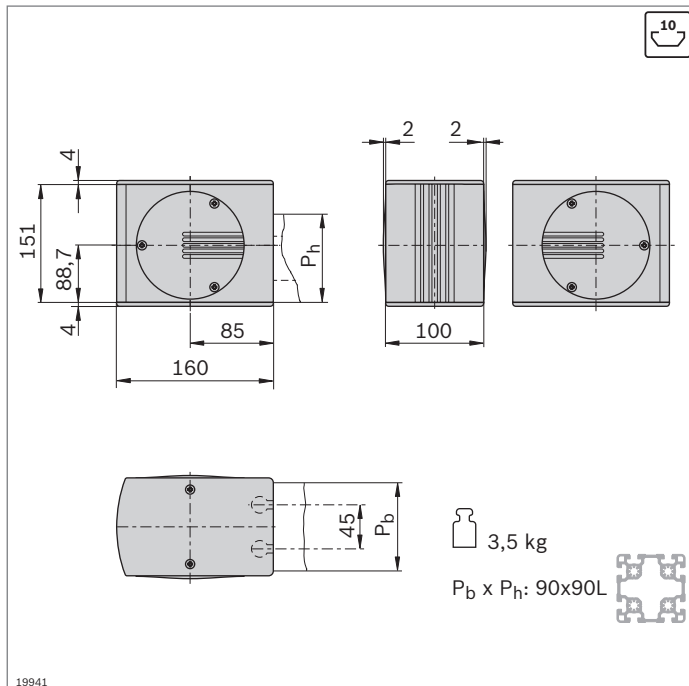
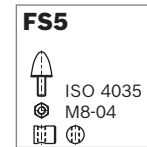
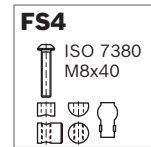


- ▶ Drive head for transferring drive torque to a toothed belt
- ▶ For direct mounting of a motor or (in conjunction with a plug-in shaft) for mounting a hollow shaft gear or a coupling (p. 13-41)
- ▶ Mounted directly on profile by using longitudinal end connector (connector included in scope of delivery)
- ▶ Profile finishing: LF blind hole drilling for longitudinal end connector

Drive head	No.	FS
LF12S	3 842 526 412	2xFS4, 2xFS5

Material: Drive head: Aluminum; anodized  
Cover caps: PA; black  
Hollow shaft: Steel; zinc-plated

Scope of delivery: Incl. Fastening material (FS), cover caps

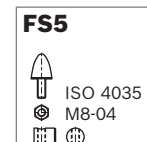
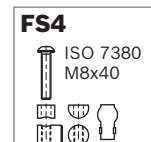


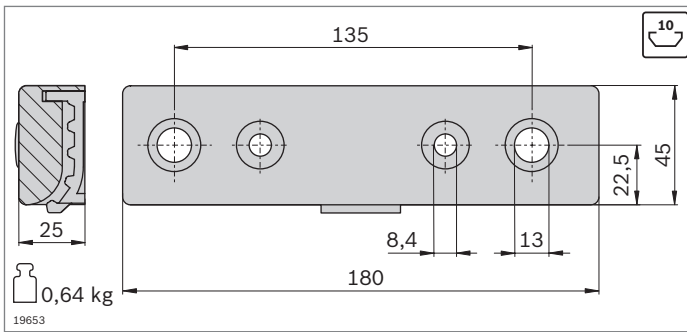
- ▶ Return head for tensioning the toothed belt and changing its direction
- ▶ Mounted directly on profile by using longitudinal end connector (connector included in scope of delivery)
- ▶ Profile finishing: LF blind hole drilling for longitudinal end connector

Return head	No.	FS
LF12S	3 842 526 413	2xFS4, 2xFS5

Material: Aluminum; anodized  
Hollow shaft: Steel; zinc-plated  
Cover caps: PA; black

Scope of delivery: Incl. Fastening material (FS), cover caps





- ▶ Belt connector suitable for trolley built out of strut profiles 45x180
- ▶ All connecting parts included for mounting on the profile end (LF12S) or in the slot (LF12C)
- ▶ Profile finishing for strut profile 45x180 for trolley LF12S: M12

Belt connector	No.	FS
<b>LF12</b>	2 <b>3 842 535 680</b>	4xFS2, 2xFS6, 2xFS7, 2xFS8, 2xFS9

Material: Aluminum, painted black

Scope of delivery: Incl. fastening material (FS)

**FS2**

☐  $\varnothing 10 \times 5 \times 11$

**FS6**

☐ DIN 7984  
M12x40

**FS7**

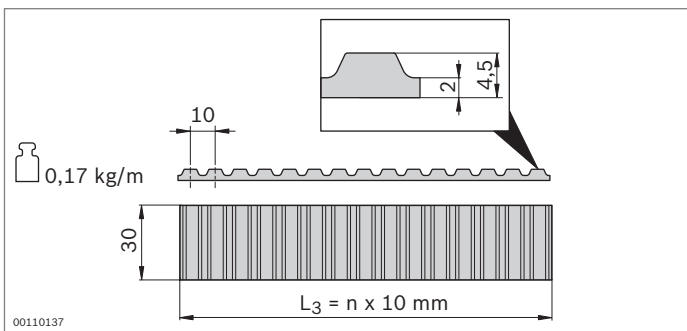
☐ DIN 7984  
M8x30  
☉ DIN 125  
A8,4  
☐  $\varnothing 10$

**FS8**

☐ DIN 7991  
M8x30  
☐  $\varnothing 10$

**FS9**

☐  $\varnothing 18 \times 7$

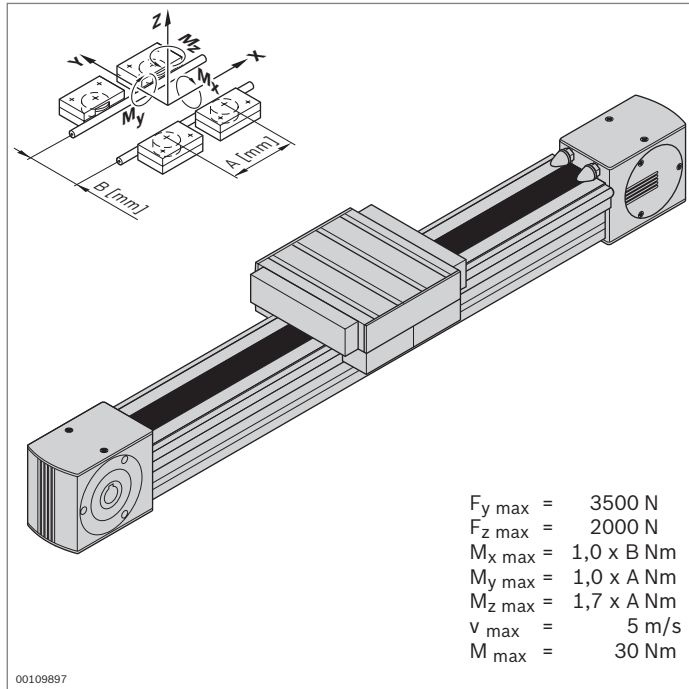


- ▶ Toothed belt as a trolley drive
- ▶ Pitch: AT10

Toothed belt	$L_3$ (mm)	No.
<b>LF12</b>	300 ... 50000	<b>3 842 994 821 / <math>L_3</math><sup>1)</sup></b>
	50000	<b>3 842 526 422</b>

<sup>1)</sup>  $L_3 = 2 \times L_2 - L_1 + 630$

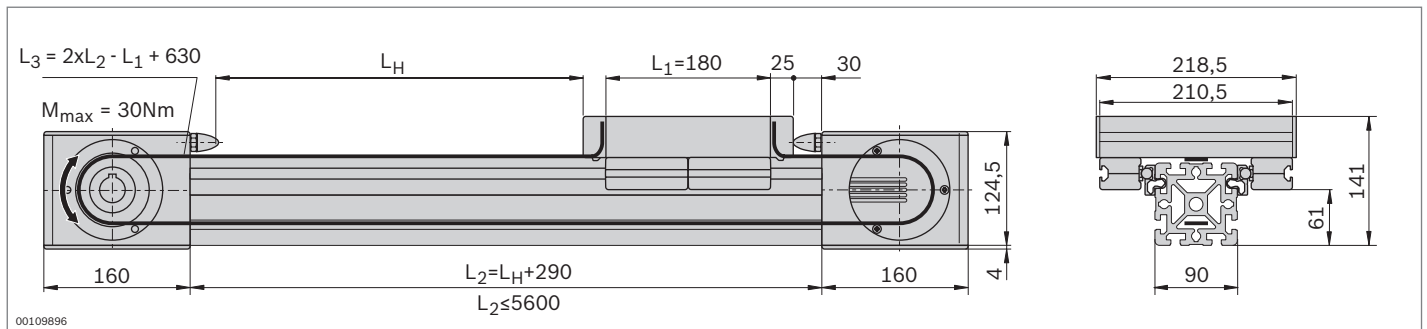
Material: PU with embedded steel wires



### Cam roller guide LF12C – complete axis



- ▶ Fully assembled cam roller guide
- ▶ Stroke can be individually selected
- ▶ Clamping profile clipped into strut profile 90x90
- ▶ Incl. toothed belt drive; additional notes on the drive concept (p. 13-39)



### Technical data

For notes on layout and drive, see page 13-45

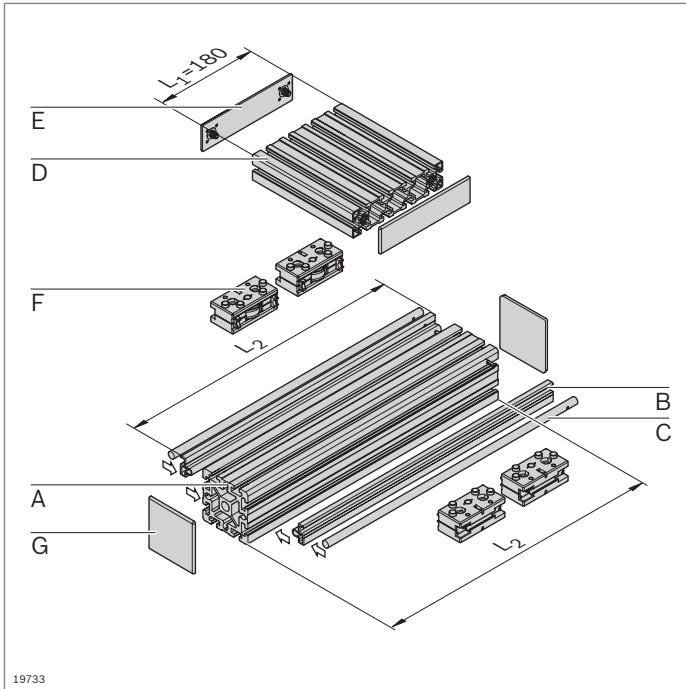
Complete axis	$L_H$ (mm)	No.
LF12C	50 ... 5310	3 842 998 498 / $L_H$

### Cam roller guide LF12C - components

► Components for the individual assembly of cam roller guides, with or without drive

#### Parts list for cam roller guide LF12C without drive

Component	No.	Pcs	Page
A Profile 90x90	3 842 990 500 / $L_2$	1	2-49
B Clamping profile LF12C	3 842 992 440 / $L_2$	2	13-20
C Guide rod LF12	3 842 993 968 / $L_2$	2	13-20
D Profile 45x180	3 842 990 335 / 210.5 mm	1	2-46
E Cover cap 45x180	3 842 548 795	2	2-46
F Guide bearing LF12	3 842 535 664	4	13-21
G Cover cap 90x90	3 842 548 761	2	2-49

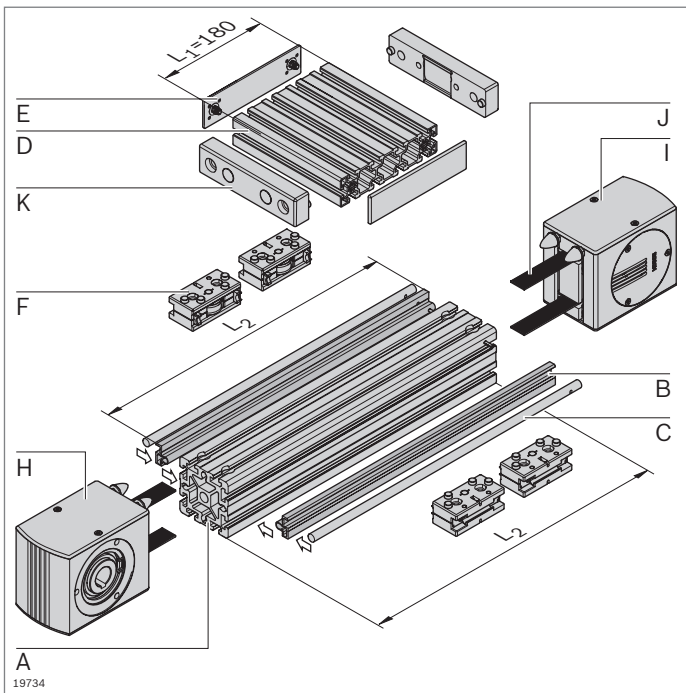


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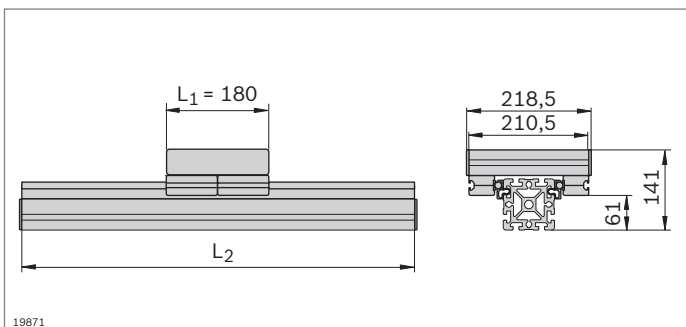
#### Parts list for cam roller guide LF12C with drive

Component	No.	Pcs	Page
A Profile 90x90 LF12C	3 842 993 082 / $L_2$	1	2-49
B Clamping profile LF12C	3 842 992 440 / $L_2$	2	13-20
C Guide rod LF12	3 842 993 968 / $L_2$	2	13-20
D Profile 45x180	3 842 990 335 / 210.5 mm	1	2-46
E Cover cap 45x180	3 842 548 795	2	2-46
F Guide bearing LF12	3 842 535 664	4	13-21
H Drive head LF12C	3 842 526 863	1	13-23
I Return head LF12C	3 842 526 865	1	13-23
J Toothed belt LF12	3 842 994 821 / $L_3$ <sup>1)</sup>	1	13-24
K Belt connector LF12	3 842 535 680	2	13-24

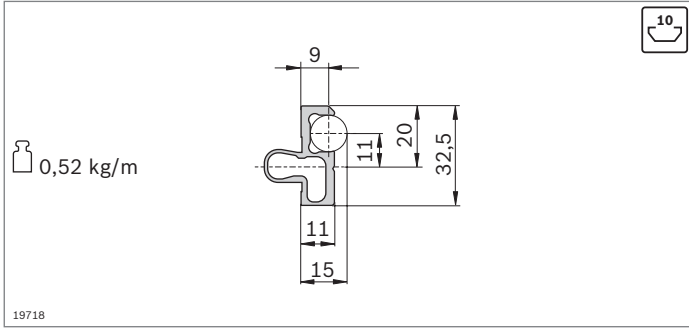
<sup>1)</sup>  $L_3 = 2 \times L_2 - L_1 + 630$



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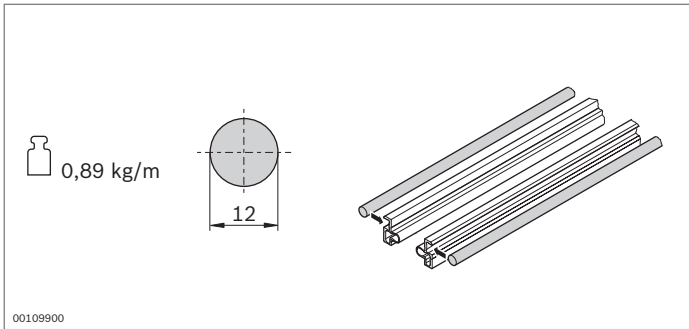
19871



- ▶ The clamping profile is clipped into any chosen strut profile with a 10 mm slot and holds the guide rods

Clamping profile		L <sub>2</sub> (mm)	No.
LF12C	1 pc	150 ... 3000	<b>3 842 992 440 / L<sub>2</sub></b>
	20 pcs	3000	<b>3 842 518 897</b>

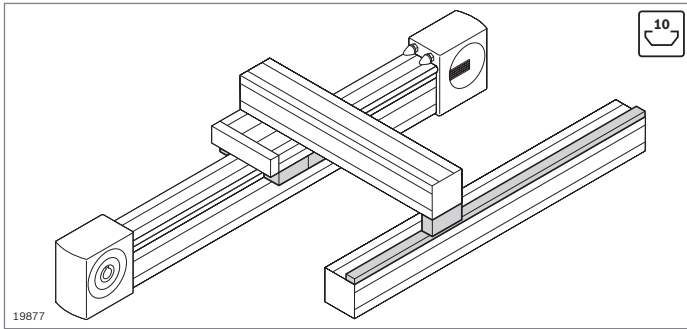
Material: Aluminum; anodized



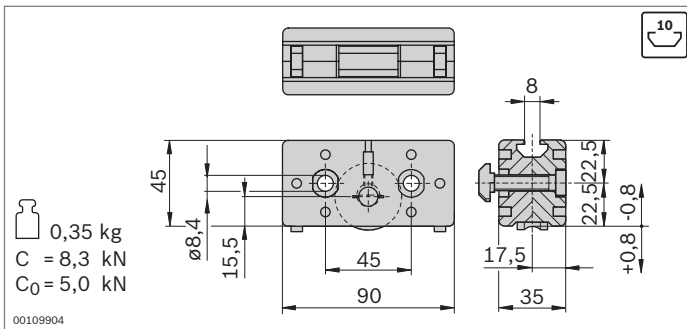
- ▶ The guide rod is pressed into the clamping profile
- ▶ The guide rod guides the guide bearing

Guide rod		L <sub>2</sub> (mm)		No.
LF12		150 ... 2900	1	<b>3 842 993 968 / L<sub>2</sub></b>
		2900	20	<b>3 842 539 415</b>

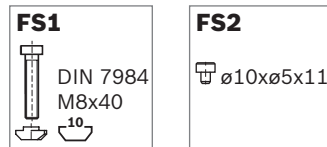
Material: Solid shaft VA, induction hardened and polished  
 Condition on delivery: Ungreased; greasing according to assembly instructions **3 842 527 226**



- ▶ Guide bearing for trolley construction
- ▶ Supporting bearing for brackets for bearing off-center forces
- ▶ Guide rail to support supporting bearings (p. 13-22)



- ▶ Guide bearing for trolley construction
- ▶ Guiding via guide rod
- ▶ Cam rollers with ball bearings, permanently lubricated
- ▶ Lubricating felts with guide rod lubrication reservoir
- ▶ Play-free cam roller adjustment via eccentric bolts
- ▶ Replacement of the lubricating felts possible from rear in installed state

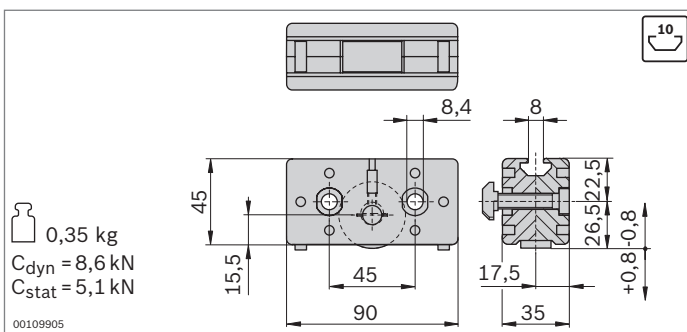


Guide bearing	No.	FS
LF12	2 3 842 535 664	2xFS1 4xFS2

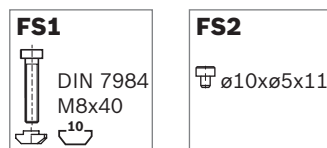
Material: Guide bearing: Diecast aluminum  
Cam roller: Steel, hardened, polished

Scope of delivery: Incl. fastening material (FS)

Condition on delivery: Lubricating felts ungreased; greasing according to assembly instructions **3 842 527 226**



- ▶ Supporting bearing for brackets for bearing off-center forces
- ▶ For support on the guide rail
- ▶ Cam rollers with ball bearings, permanently lubricated
- ▶ Lubricating felts with guide rod lubrication reservoir
- ▶ Play-free cam roller adjustment via eccentric bolts
- ▶ Replacement of the lubricating felts possible from rear in installed state

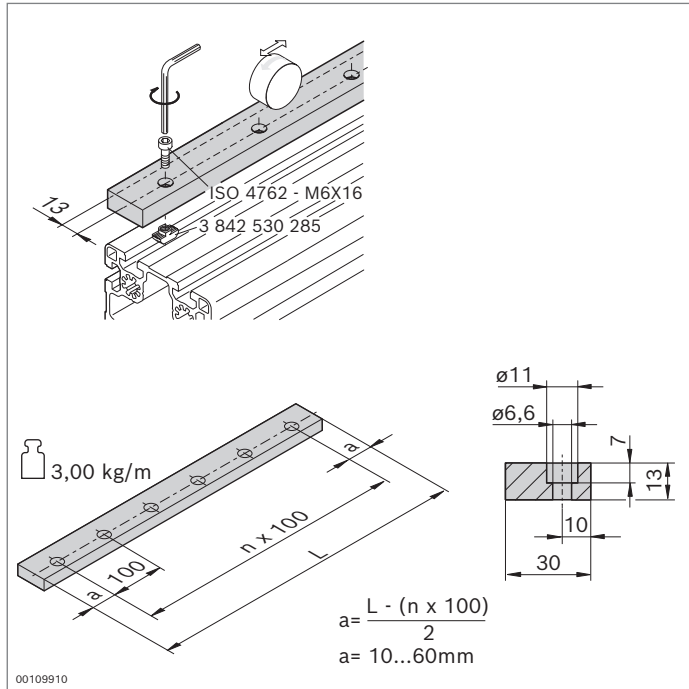


Supporting bearing	No.	FS
LF12	2 3 842 535 666	2xFS1 4xFS2

Material: Guide bearing: Diecast aluminum  
Cam roller: Steel, hardened, polished

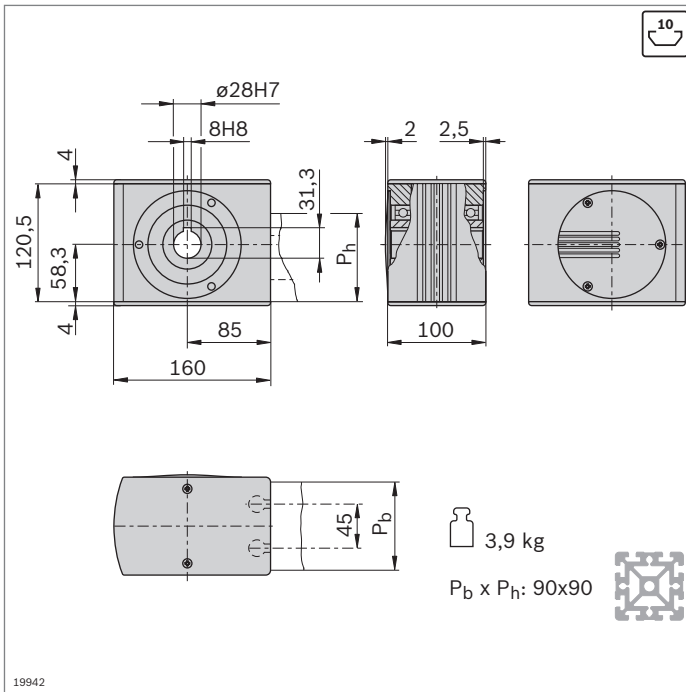
Scope of delivery: Incl. fastening material (FS)

Condition on delivery: Lubricating felts ungreased; greasing according to assembly instructions **3 842 527 226**



► Guide rail to hold supporting bearings

Guide rail	L (mm)	No.
<b>LF12</b>	120 ... 2000	<b>3 842 994 702 / L</b>
Material:	Steel, hardened, polished	
Condition on delivery:	Ungreased; greasing according to assembly instructions <b>3 842 527 226</b>	
Accessories:	Cylinder head screw ISO 4762 – M6x16 T-nut M6, 10 mm slot ( <b>3 842 530 285</b> )	

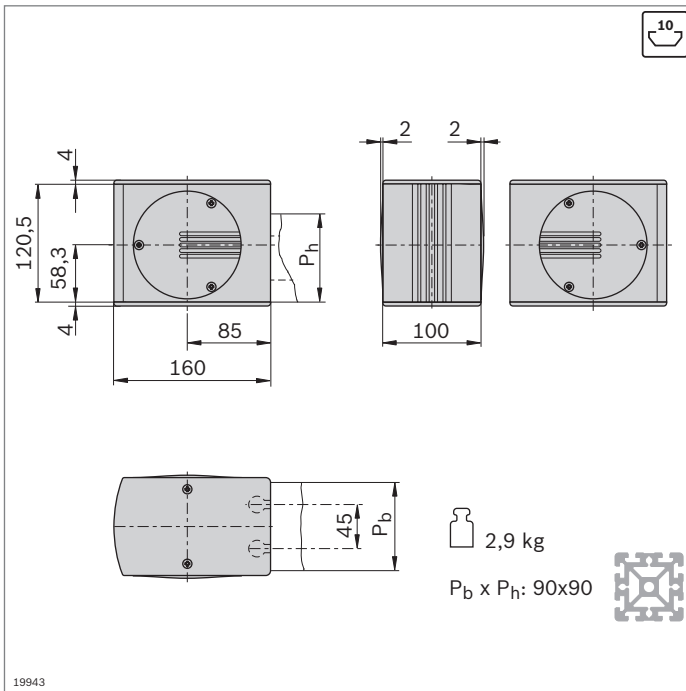
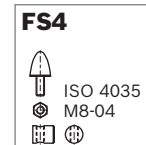
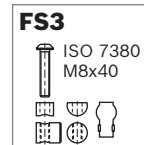


- ▶ Drive head for transferring drive torque to a toothed belt
- ▶ For direct mounting of a motor or (in conjunction with a plug-in shaft) for mounting a hollow shaft gear or a coupling (p. 13-41)
- ▶ Mounted directly on profile by using longitudinal end connector (connector included in scope of delivery)
- ▶ Profile finishing: LF blind hole drilling for longitudinal end connector

Drive head	No.	FS
<b>LF12C</b>	<b>3 842 526 863</b>	4xFS3, 2xFS4

Material: Drive head: Aluminum; anodized  
Hollow shaft: Steel; zinc-plated  
Cover caps: PA; black

Scope of delivery: Incl. fastening material (FS), cover caps

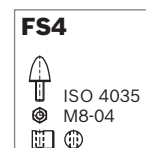
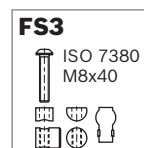


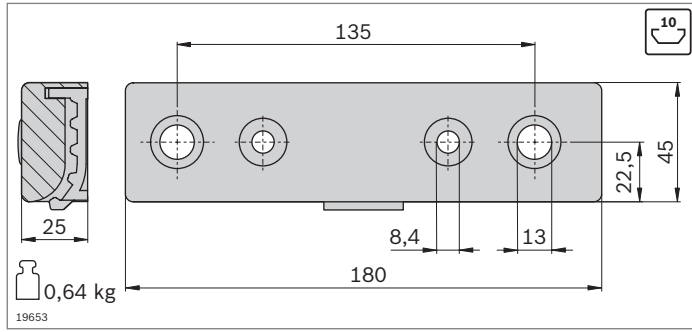
- ▶ Return head for tensioning the toothed belt and changing its direction
- ▶ Mounted directly on profile by using longitudinal end connector (connector included in scope of delivery)
- ▶ Profile finishing: LF blind hole drilling for longitudinal end connector

Return head	No.	FS
<b>LF12C</b>	<b>3 842 526 865</b>	4xFS3, 2xFS4

Material: Return head: Aluminum; anodized  
Hollow shaft: Steel; zinc-plated  
Cover caps: PA; black

Scope of delivery: Incl. fastening material (FS), cover caps





- ▶ Belt connector suitable for trolley built out of strut profiles 45x180
- ▶ All connecting parts included for mounting at the profile end (LF12S) or the slot (LF12C)
- ▶ Profile finishing for strut profile 45x180 for trolley LF12S: M12

Belt connector	No.	FS
<b>LF12</b>	2 <b>3 842 535 680</b>	4xFS2, 2xFS5, 2xFS6, 2xFS7, 2xFS8

Material: Aluminum, painted black

Scope of delivery: Incl. fastening material (FS)

**FS2**

∅10x∅5x11

**FS5**

DIN7984  
M12x40

**FS6**

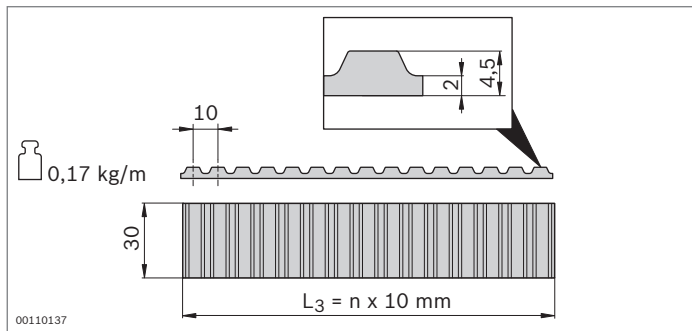
DIN 7984  
M8x30  
DIN EN ISO 7089  
A8,4

**FS7**

DIN 7991  
M8x30

**FS8**

∅18x7

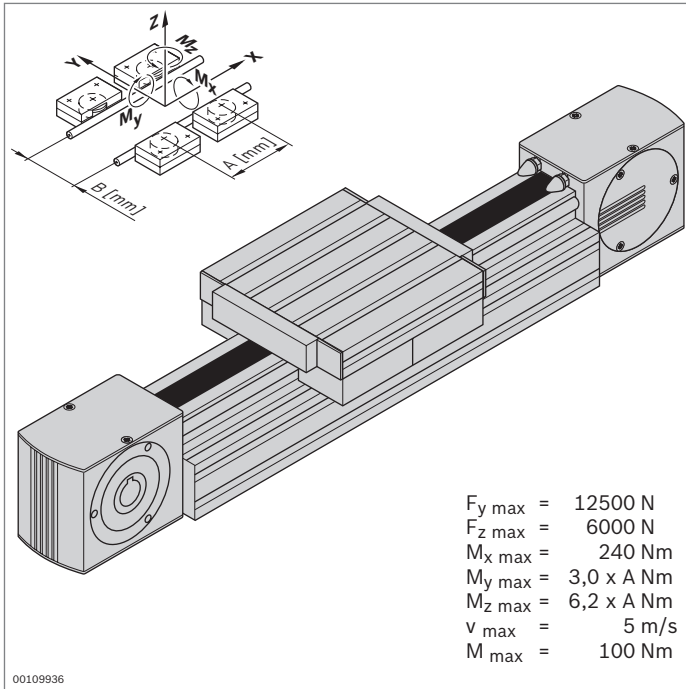


- ▶ Toothed belt as a trolley drive
- ▶ Pitch: AT10

Toothed belt	L <sub>3</sub> (mm)	No.
<b>LF12</b>	300 ... 50000	<b>3 842 994 821 / L<sub>3</sub><sup>1)</sup></b>
	50000	<b>3 842 526 422</b>

<sup>1)</sup> L<sub>3</sub> = 2xL<sub>2</sub> - L<sub>1</sub> + 630

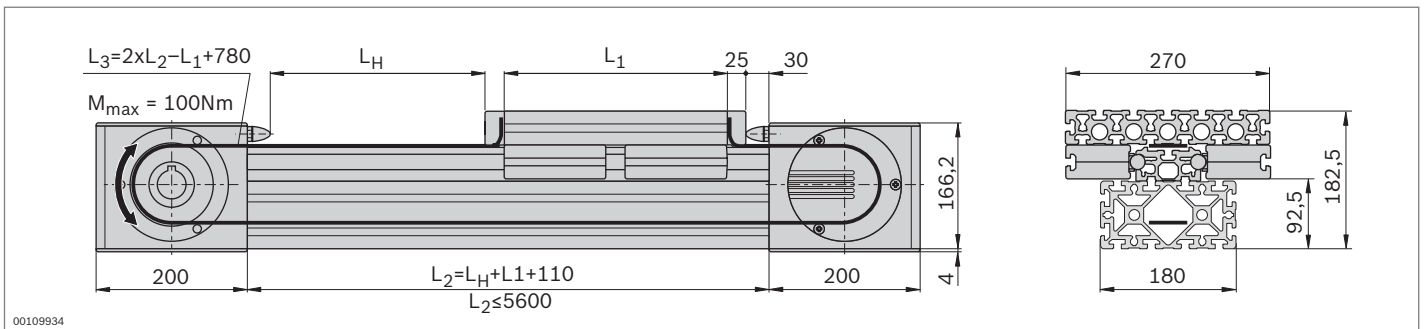
Material: PU with embedded steel wires



### Cam roller guide LF20S - complete axis



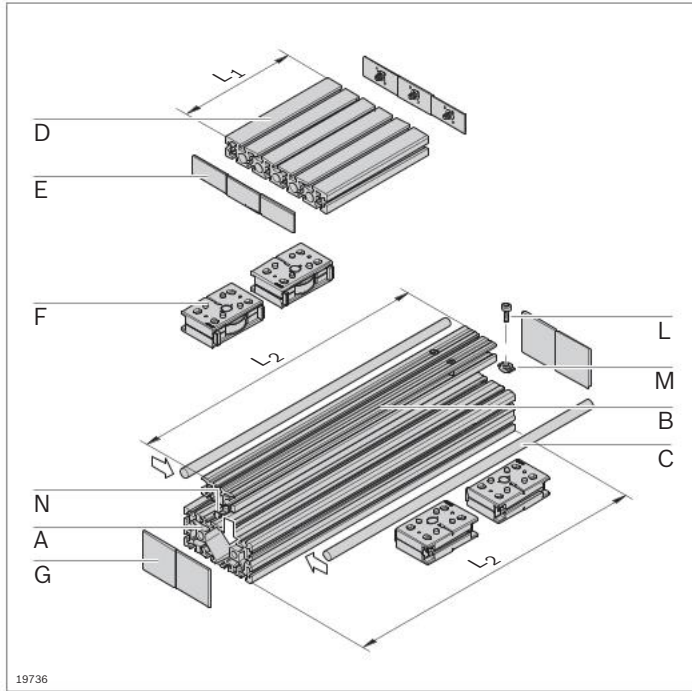
- ▶ Fully assembled cam roller guide
- ▶ Stroke and trolley length can be individually selected
- ▶ Rail profile mounted on strut profile 90x180
- ▶ Incl. toothed belt drive; additional notes on the drive concept (p. 13-39)



#### Technical data

For notes on layout and drive, see page 13-45

Complete axis	$L_H / L_1$ (mm)	No.
LF20S	$L_1 + 50 \leq L_H \leq 5220$ $270 \leq L_1 \leq 1000$	3 842 998 499 / $L_H / L_1$



## Cam roller guide LF20S – components

- Components for the individual assembly of cam roller guides, with or without drive

### Parts list for cam roller guide LF20S without drive

Component	No.	Pcs	Page
<b>A</b> Profile 90x180	<b>3 842 990 416 / L<sub>2</sub></b>	1	2-51
<b>B</b> Guide profile LF20S	<b>3 842 993 080 / L<sub>2</sub></b>	1	13-27
<b>C</b> Guide rod LF20	<b>3 842 993 969 / L<sub>2</sub></b>	2	13-27
<b>D</b> Profile 45x270	<b>3 842 992 927 / L<sub>1</sub></b>	1	2-47
<b>E</b> Cover cap 45x90	<b>3 842 548 757</b>	6	2-47
<b>F</b> Guide bearing LF20	<b>3 842 535 663</b>	4	13-28
<b>G</b> Cover cap 90x90	<b>3 842 548 761</b>	4	2-49
<b>L</b> Cylinder head screw DIN 7984 – M8x45		n <sup>1)</sup>	
<b>M</b> T-nut M8, 10 mm slot	<b>3 842 530 287</b>	n <sup>1)</sup>	3-4
<b>N</b> Sliding block	<b>3 842 146 877</b>	n <sup>1)</sup>	13-27

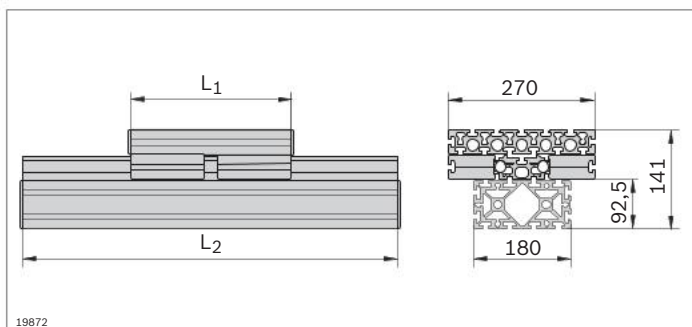
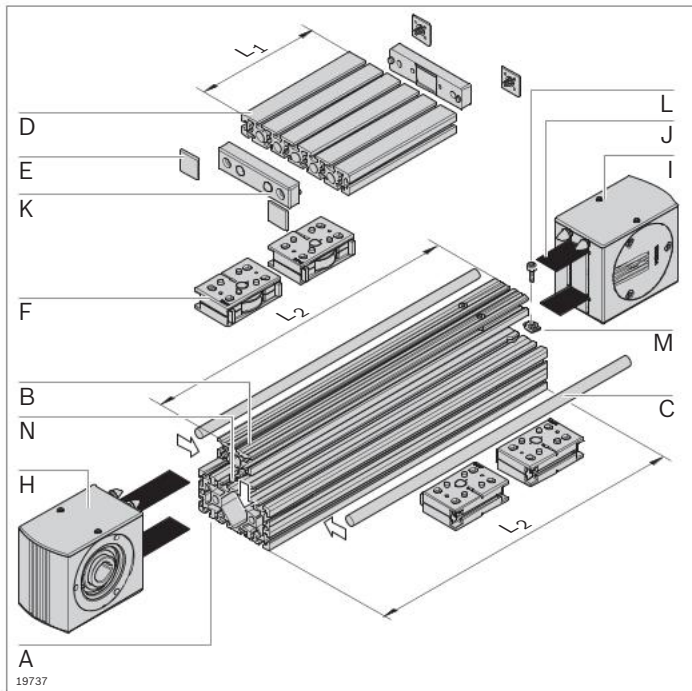
<sup>1)</sup> For identification see page 13-27

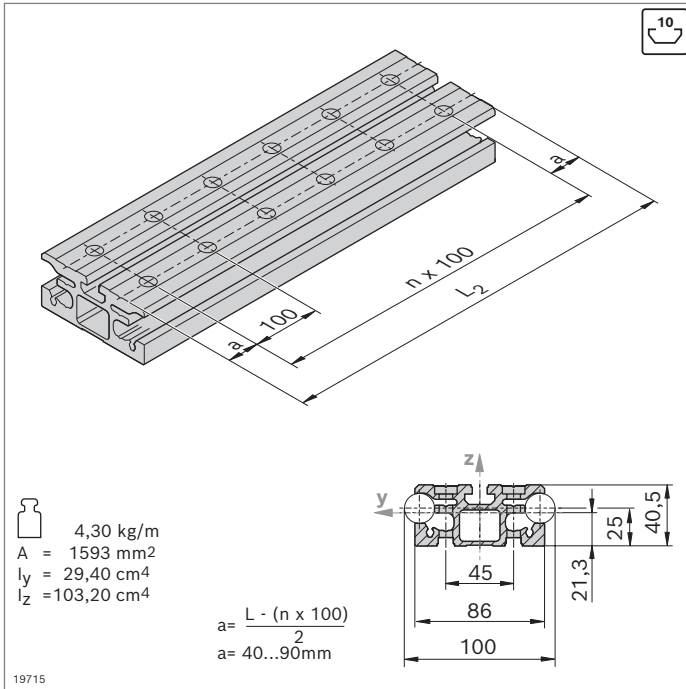
### Parts list for cam roller guide LF20S with drive

Component	No.	Pcs	Page
<b>A</b> Profile 90x180 LF-S	<b>3 842 993 081 / L<sub>2</sub></b>	1	2-51
<b>B</b> Guide profile LF20S	<b>3 842 993 080 / L<sub>2</sub></b>	1	13-27
<b>C</b> Guide rod LF20	<b>3 842 993 969 / L<sub>2</sub></b>	2	13-27
<b>D</b> Profile 45x270 M12	<b>3 842 992 928 / L<sub>1</sub></b>	1	2-47
<b>E</b> Cover cap 45x45	<b>3 842 548 753</b>	4	2-41
<b>F</b> Guide bearing LF20	<b>3 842 535 663</b>	4	13-28
<b>H</b> Drive head LF20S	<b>3 842 526 414</b>	1	13-30
<b>I</b> Return head LF20S	<b>3 842 526 415</b>	1	13-30
<b>J</b> Toothed belt LF20	<b>3 842 994 662 / L<sub>3</sub><sup>1)</sup></b>	1	13-31
<b>K</b> Belt connector LF20	<b>3 842 535 680</b>	2	13-31
<b>L</b> Cylinder head screw DIN 7984 – M8x45		n <sup>2)</sup>	
<b>M</b> T-nut M8, 10 mm slot	<b>3 842 530 287</b>	n <sup>2)</sup>	3-4
<b>N</b> Sliding block	<b>3 842 146 877</b>	n <sup>2)</sup>	13-27

<sup>1)</sup>  $L_3 = 2xL_2 - L_1 + 780$

<sup>2)</sup> For identification see page 13-27

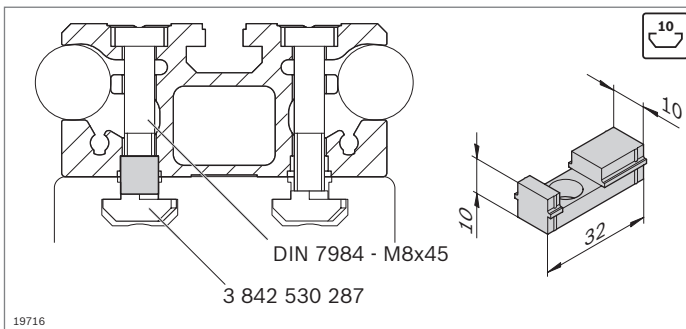




- ▶ Guide profile LF20S to hold the guide rods
- ▶ Installation on MGE strut profiles with 10 mm slot or directly on a flat surface

Guide profile		$L_2$ (mm)	No.
LF20S	1 pc	180 ... 6070	<b>3 842 993 080 / <math>L_2</math></b>
	6 pcs	6070	<b>3 842 557 958</b>

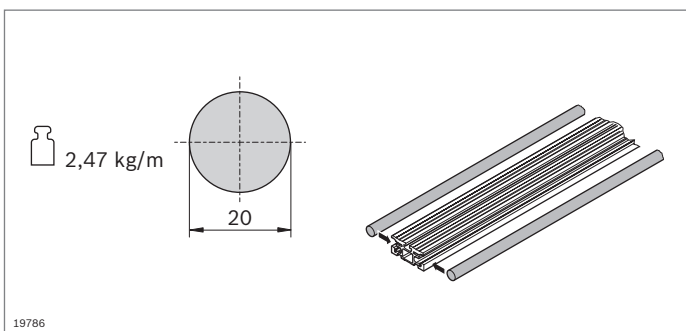
Accessories: Cylinder head screw DIN 7984 M8x45  
 T-nut M8, 10 mm slot (p. 3-4)  
 Sliding block



- ▶ Sliding block as a centering aid for mounting the guide profile in a 10 mm profile slot

Sliding block		No.
	50	<b>3 842 146 877</b>

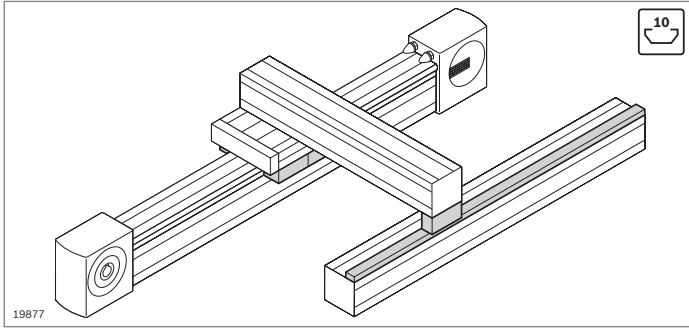
Material: PA; black



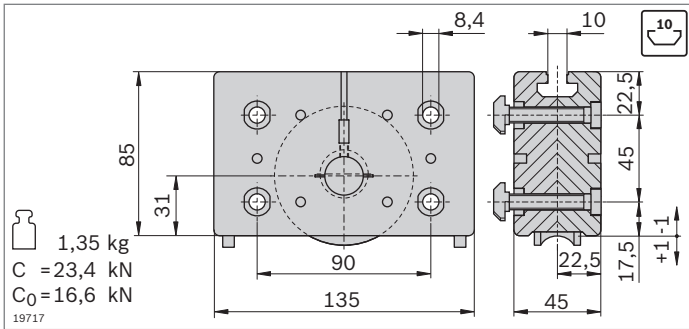
- ▶ The guide rod is pressed into the guide profile
- ▶ The guide rod guides the guide bearing

Guide rod	$L_2$ (mm)	No.
LF20	150 ... 2900	1 <b>3 842 993 969 / <math>L_2</math></b>
	2900	20 <b>3 842 539 416</b>

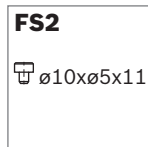
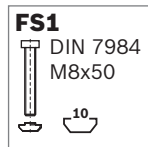
Material: Solid shaft VA, induction hardened, polished  
 Condition on delivery: Ungreased; greasing according to assembly instructions **3 842 527 226**



- ▶ Guide bearing for trolley construction
- ▶ Supporting bearing for brackets for bearing off-center forces
- ▶ Guide rail to support supporting bearings (p. 13-29)



- ▶ Guide bearing for trolley construction
- ▶ Guiding via guide rod
- ▶ Cam rollers with ball bearings, permanently lubricated
- ▶ Lubricating felts with guide rod lubrication reservoir
- ▶ Play-free cam roller adjustment via eccentric bolts
- ▶ Replacement of the lubricating felts possible from rear in installed state

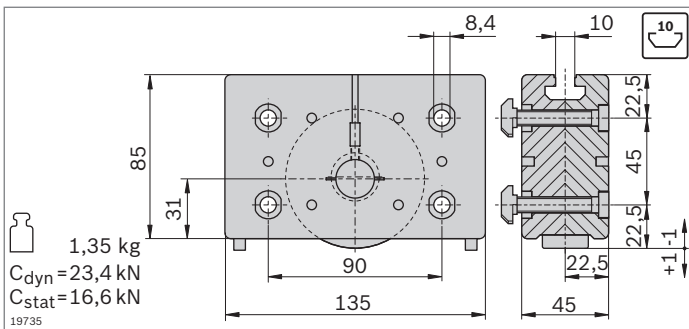


Guide bearing	No.	FS
LF20	2 3 842 535 663	4xFS1 4xFS2

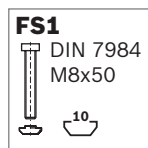
Material: Housing: Diecast aluminum  
Cam roller: Steel, hardened, polished

Scope of delivery: Incl. fastening material (FS)

Condition on delivery: Lubricating felts ungreased; greasing according to assembly instructions **3 842 527 226**



- ▶ Supporting bearing for brackets for bearing off-center forces
- ▶ For support on the guide rail
- ▶ Cam rollers with ball bearings, permanently lubricated
- ▶ Lubricating felts with guide rod lubrication reservoir
- ▶ Play-free cam roller adjustment via eccentric bolts
- ▶ Replacement of the lubricating felts possible from rear in installed state

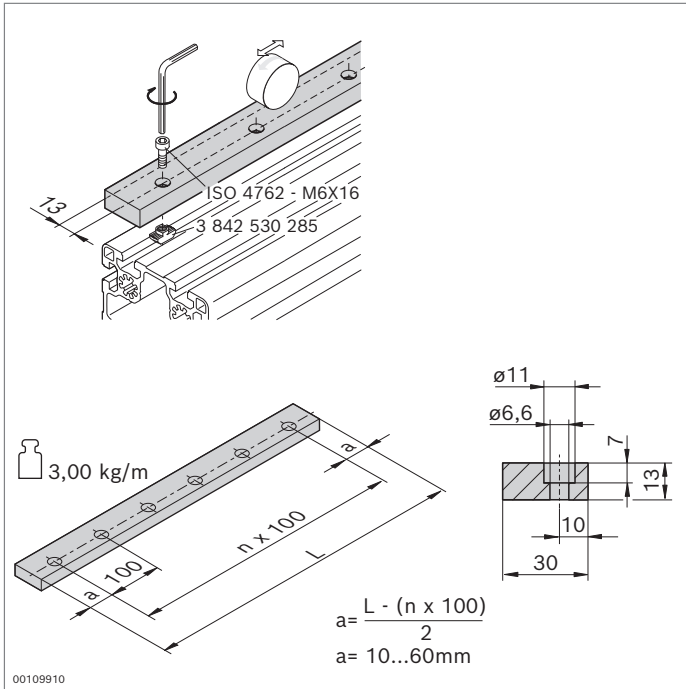


Supporting bearing	No.	FS
LF20	2 3 842 535 665	4xFS1 4xFS2

Material: Housing: Diecast aluminum  
Cam roller: Steel, hardened, polished

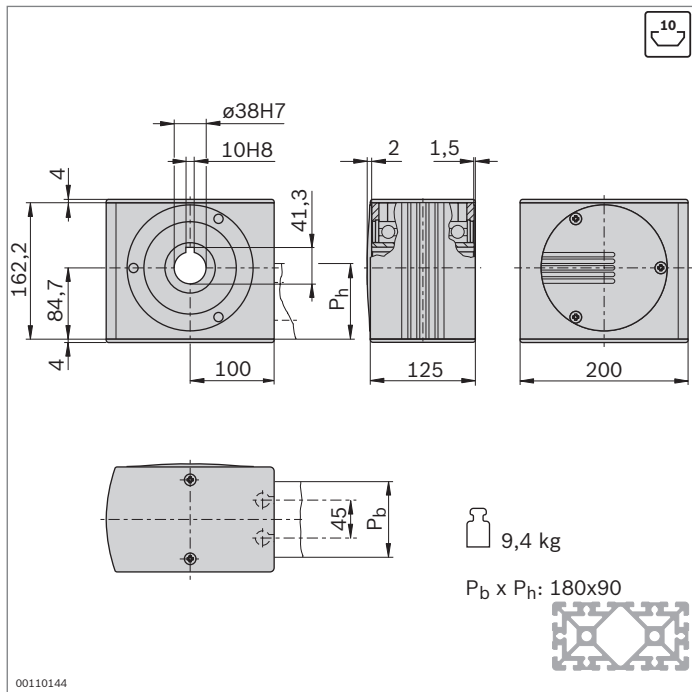
Scope of delivery: Incl. fastening material (FS)

Condition on delivery: Lubricating felts ungreased; greasing according to assembly instructions **3 842 527 226**



► Guide rail to hold supporting bearings

Guide rail	L (mm)	No.
<b>LF20</b>	120 ... 2000	<b>3 842 994 702 / L</b>
Material:	Steel, hardened, polished	
Condition on delivery:	Ungreased; greasing according to assembly instructions <b>3 842 527 226</b>	
Accessories:	Cylinder head screw ISO 4762 – M6x16 T-nut M6, 10 mm slot ( <b>3 842 530 285</b> )	

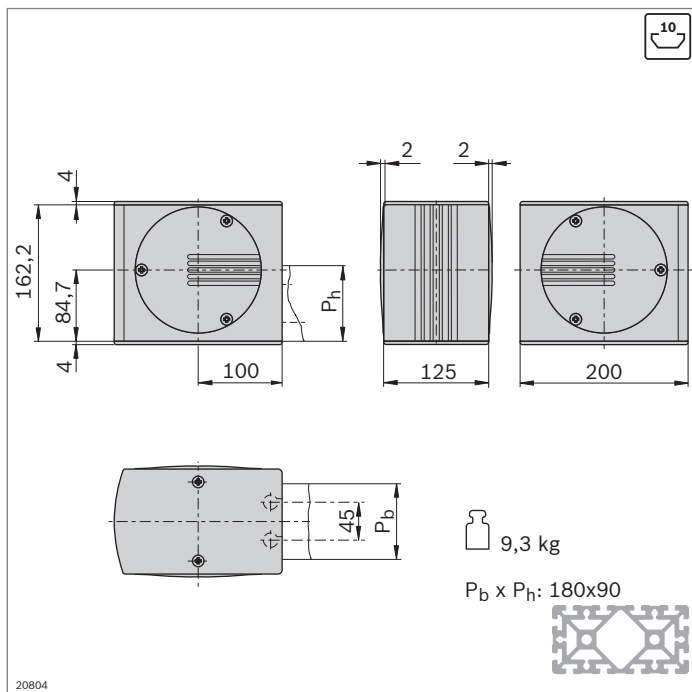
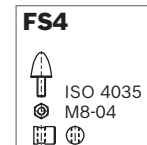
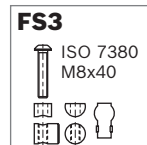


- ▶ Drive head for transferring drive torque to a toothed belt
- ▶ For direct mounting of a motor or (in conjunction with a plug-in shaft) for mounting a hollow shaft gear or a coupling (p. 13-41)
- ▶ Mounted directly on profile by using longitudinal end connector (connector included in scope of delivery)
- ▶ Profile finishing: LF-S blind hole drilling for longitudinal end connector

Drive head	No.	FS
LF20S	3 842 526 414	4xFS3, 2xFS4

Material: Drive head: Aluminum; anodized  
Hollow shaft: Steel; zinc-plated

Scope of delivery: Incl. fastening material (FS), cover caps

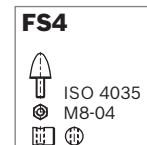
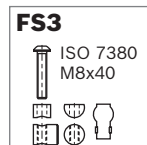


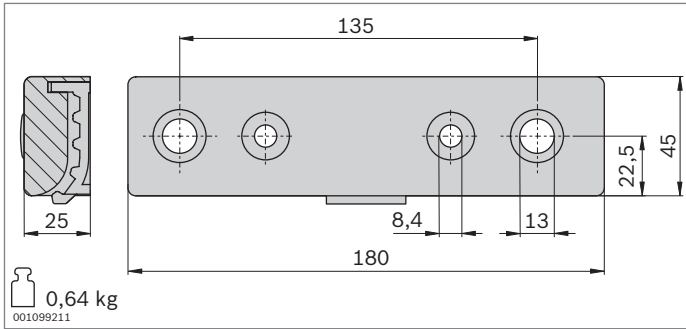
- ▶ Return head for tensioning the toothed belt and changing its direction
- ▶ Mounted directly on profile by using longitudinal end connector (connector included in scope of delivery)
- ▶ Profile finishing: LF-S blind hole drilling for longitudinal end connector

Return head	No.	FS
LF20S	3 842 526 415	4xFS3, 2xFS4

Material: Return head: Aluminum; anodized  
Hollow shaft: Steel; zinc-plated  
Cover caps: PA; black

Scope of delivery: Incl. fastening material (FS), cover caps

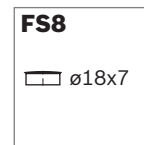
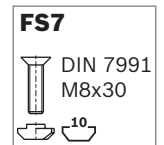
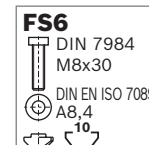
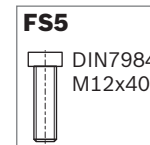
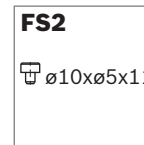




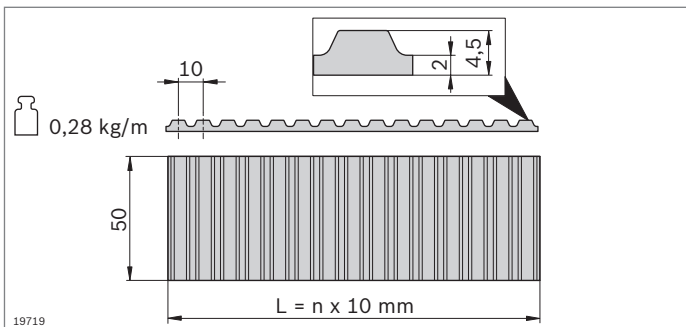
- ▶ Belt connector for fixing the toothed belt on the front of the trolley
- ▶ Profile finishing for strut profile 45x270 for trolley LF20S: M12
- ▶ All connecting parts included for mounting at the profile end (LF20S) or the slot (LF20C)

Belt connector	No.	FS
LF20	2 3 842 535 680	4xFS2, 2xFS5, 2xFS6, 2xFS7, 2xFS8

Material: Aluminum, painted black  
 Scope of delivery: Incl. fastening material (FS)



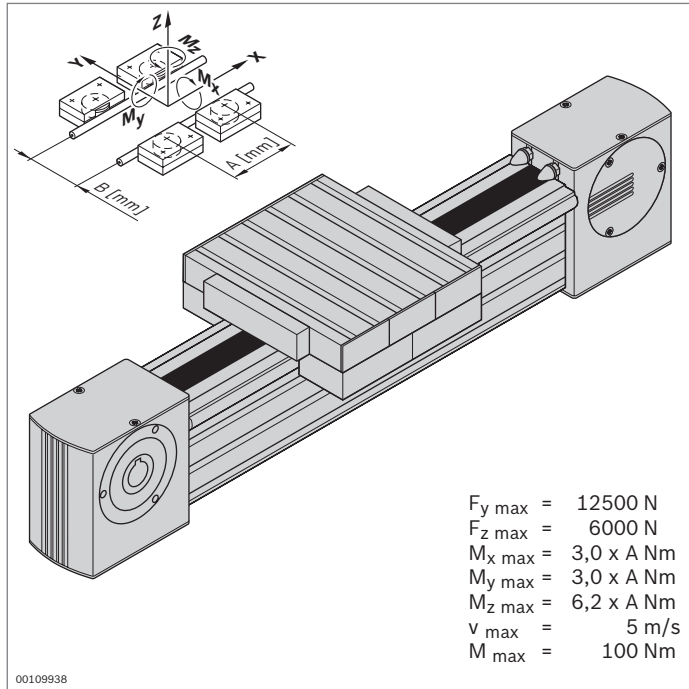
- ▶ Toothed belt as a trolley drive
- ▶ Pitch: AT10



Toothed belt	$L_3$ (mm)	No.
LF20	300 ... 50000	3 842 994 662 / $L_3^{1)}$
	50000	3 842 513 648

<sup>1)</sup>  $L_3 = 2 \times L_2 - L_1 + 780$

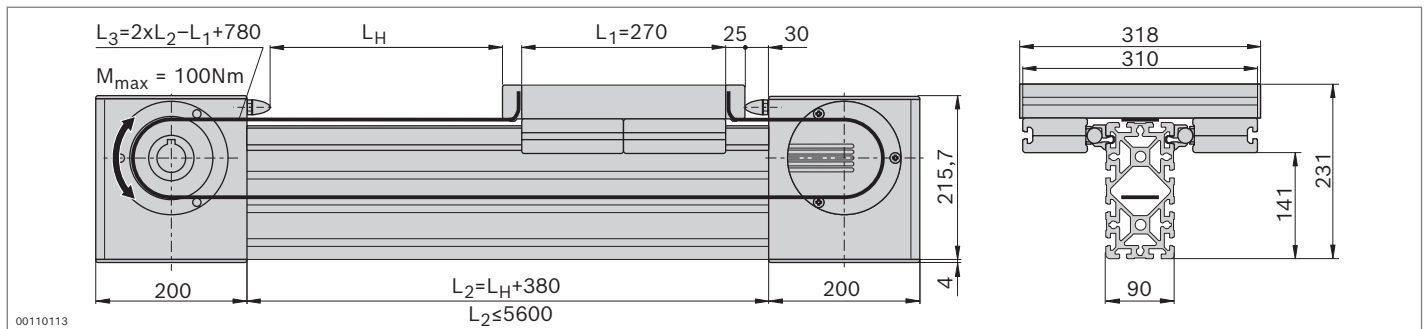
Material: PU with embedded steel wires



### Cam roller guide LF20C – complete axis



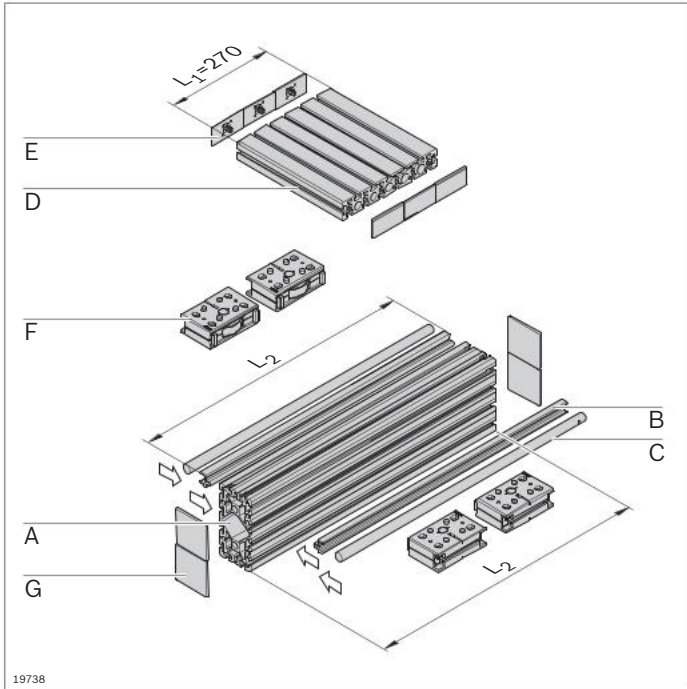
- ▶ Fully assembled cam roller guide
- ▶ Stroke can be individually selected
- ▶ Clamping profile clipped into strut profile 90x180
- ▶ Incl. toothed belt drive; additional notes on the drive concept (p. 13-39)



### Technical data

For notes on layout and drive, see page 13-45

Complete axis	$L_H$ (mm)	No.
LF20C	50 ... 5220	3 842 998 500 / $L_H$

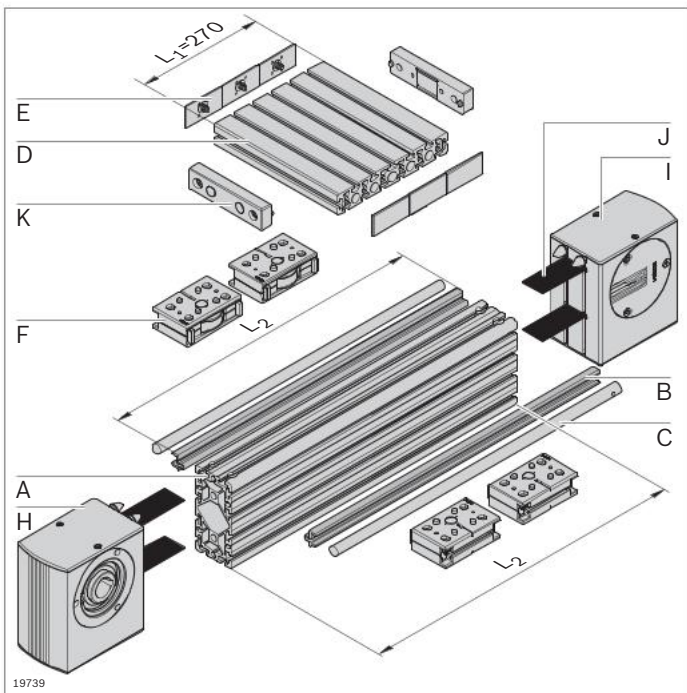


### Cam roller guide LF20C – components

- Components for the individual assembly of cam roller guides, with or without drive

#### Parts list for cam roller guide LF20C without drive

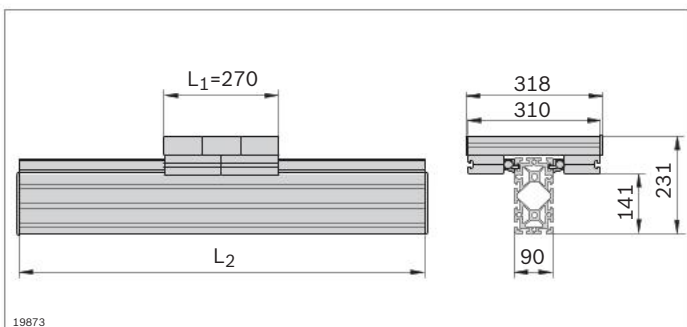
Component	No.	Pcs	Page
A Profile 90x180	3 842 990 416 / $L_2$	1	2-51
B Clamping profile LF20C	3 842 992 441 / $L_2$	2	13-34
C Guide rod LF20	3 842 993 969 / $L_2$	2	13-34
D Profile 45x270	3 842 992 927 / 310 mm	1	2-47
E Cover cap 45x90	3 842 548 757	6	2-47
F Guide bearing LF20	3 842 535 663	4	13-35
G Cover cap 90x90	3 842 548 761	4	2-51

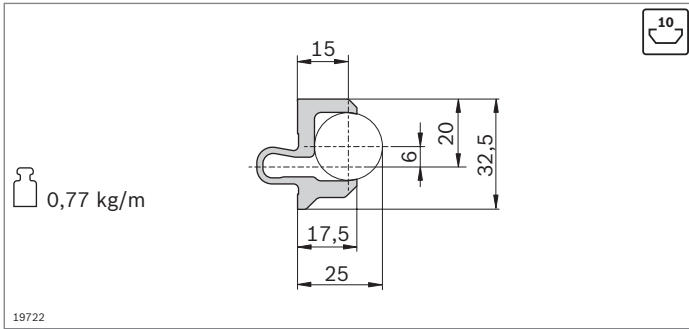


#### Parts list for cam roller guide LF20C with drive

Component	No.	Pcs	Page
A Profile 90x180 LF	3 842 992 898 / $L_2$	1	2-51
B Clamping profile LF20C	3 842 992 441 / $L_2$	2	13-34
C Guide rod LF20	3 842 993 969 / $L_2$	2	13-34
D Profile 45x270	3 842 992 927 / 310 mm	1	2-47
E Cover cap 45x90	3 842 548 757	6	2-47
F Guide bearing LF20	3 842 535 663	4	13-35
H Drive head	3 842 526 867	1	13-37
I Return head	3 842 526 869	1	13-37
J Toothed belt	3 842 994 662 / $L_3$ <sup>1)</sup>	1	13-38
K Belt connector	3 842 535 680	2	13-38

<sup>1)</sup>  $L_3 = 2 \times L_2 - L_1 + 780$

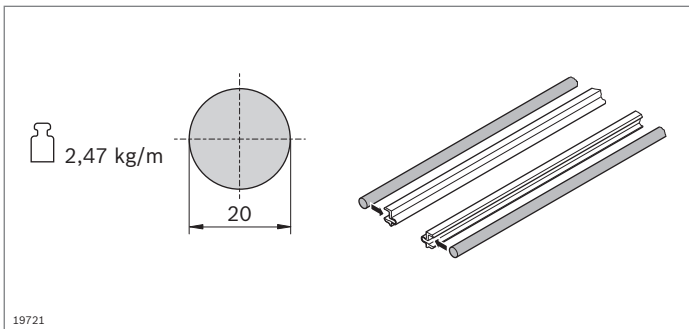




- ▶ The clamping profile is clipped into any chosen 10 mm strut profile slot and holds the guide rods

Clamping profile	L (mm)	No.
LF20C	1 pc 150 ... 3000	<b>3 842 992 441 / L</b>
	20 pcs 3000	<b>3 842 518 898</b>

Material: Aluminum; anodized

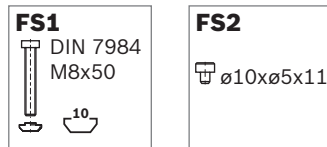
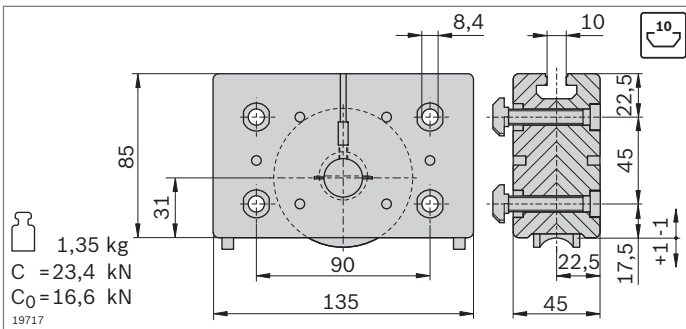
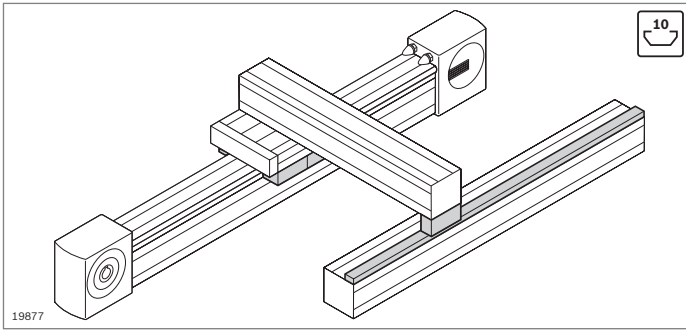


- ▶ The guide rod is pressed into the clamping profile
- ▶ The guide rod guides the guide bearing

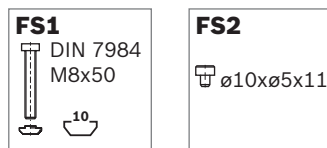
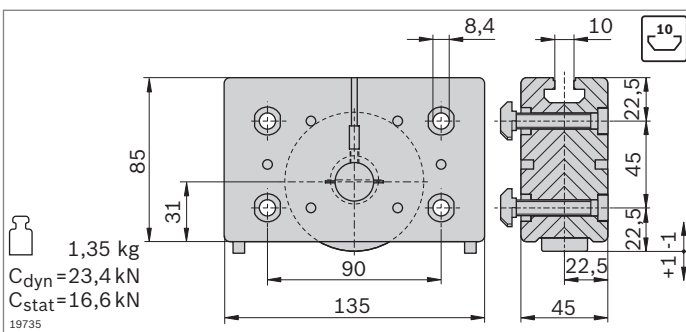
Guide rod	L (mm)	No.
LF20	150 ... 2900	1 <b>3 842 993 969 / L</b>
	2900	20 <b>3 842 539 416</b>

Material: Solid shaft VA, induction hardened, polished

Condition on delivery: Ungreased; greasing according to assembly instructions **3 842 527 226**



- ▶ Guide bearing for trolley construction
- ▶ Supporting bearing for brackets for bearing off-center forces
- ▶ Guide rail to support supporting bearings (p. 13-36)



- ▶ Guide bearing for trolley construction
- ▶ Guiding via guide rod
- ▶ Cam rollers with ball bearings, permanently lubricated
- ▶ Lubricating felts with guide rod lubrication reservoir
- ▶ Play-free cam roller adjustment via eccentric bolts
- ▶ Replacement of the lubricating felts possible from rear in installed state

Guide bearing	No.	FS
LF20	2 3 842 535 663	4xFS1 4xFS2

Material: Housing: Diecast aluminum  
Cam roller: Steel, hardened, polished

Scope of delivery: Incl. fastening material (FS)

Condition on delivery: Lubricating felts ungreased; greasing according to assembly instructions **3 842 527 226**

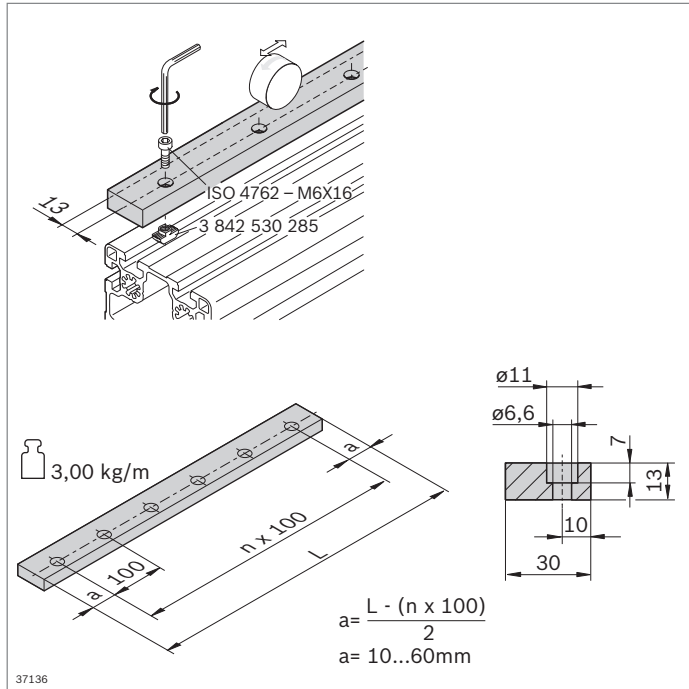
- ▶ Supporting bearing for brackets for bearing off-center forces
- ▶ For support on the guide rail
- ▶ Cam rollers with ball bearings, permanently lubricated
- ▶ Lubricating felts with guide rod lubrication reservoir
- ▶ Play-free cam roller adjustment via eccentric bolts
- ▶ Replacement of the lubricating felts possible from rear in installed state

Supporting bearing	No.	FS
LF20	2 3 842 535 665	4xFS1 4xFS2

Material: Housing: Diecast aluminum  
Cam roller: Steel, hardened, polished

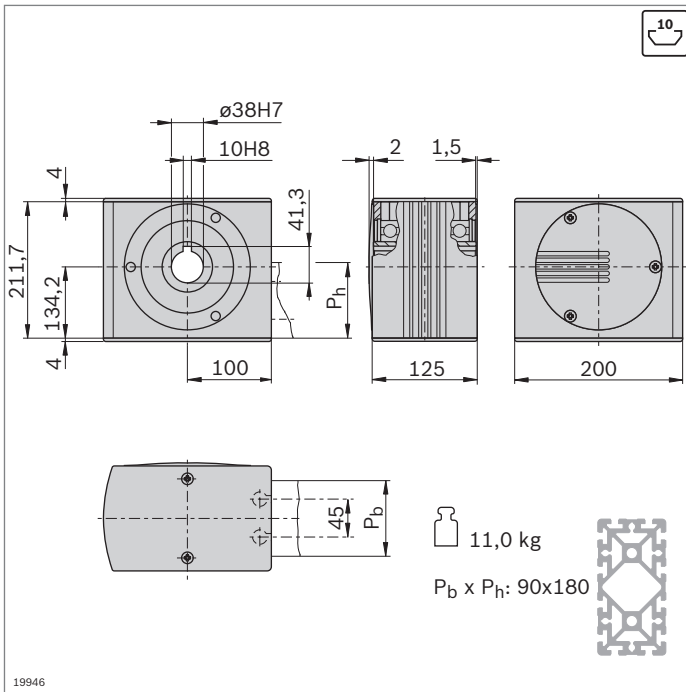
Scope of delivery: Incl. fastening material (FS)

Condition on delivery: Lubricating felts ungreased; greasing according to assembly instructions **3 842 527 226**



► Guide rail to hold supporting bearings

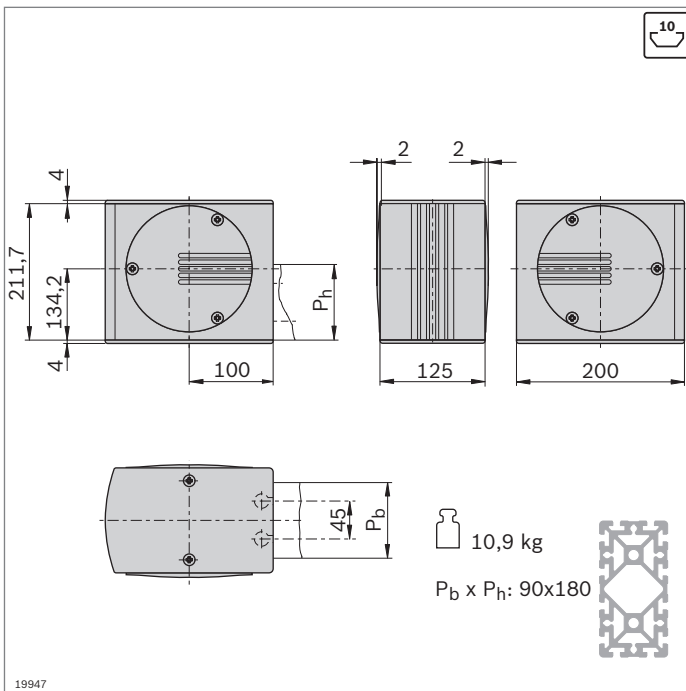
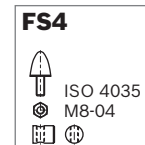
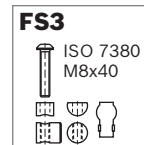
Guide rail	L (mm)	No.
<b>LF20</b>	120 ... 2000	<b>3 842 994 702 / L</b>
Material:	Steel, hardened, polished	
Accessories:	Cylinder head screw ISO 4762 - M6x16 T-nut M6, 10 mm slot ( <b>3 842 530 285</b> )	
Condition on delivery:	Ungreased; greasing according to assembly instructions <b>3 842 527 226</b>	



- ▶ Drive head for transferring drive torque to a toothed belt
- ▶ For direct mounting of a motor or (in conjunction with a plug-in shaft) for mounting a hollow shaft gear or a coupling (p. 13-41)
- ▶ Mounted directly on profile by using longitudinal end connector (connector included in scope of delivery)
- ▶ Profile finishing: LF blind hole drilling for longitudinal end connector

Drive head	No.	FS
<b>LF20C</b>	<b>3 842 526 867</b>	4xFS3, 2xFS4

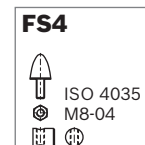
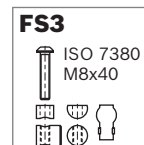
Material: Drive head: Aluminum; anodized  
Hollow shaft: Steel; zinc-plated  
Scope of delivery: Incl. fastening material (FS), cover caps

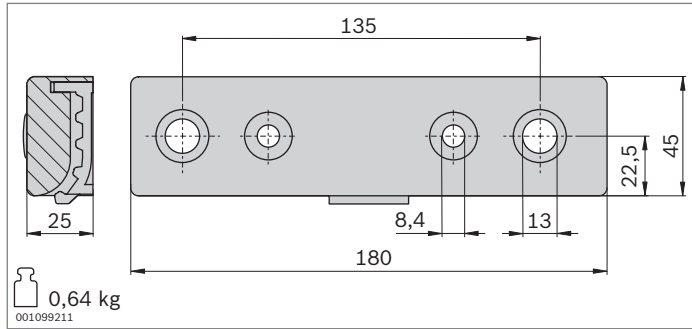


- ▶ Return head for tensioning the toothed belt and changing its direction
- ▶ Mounted directly on profile by using longitudinal end connector (connector included in scope of delivery)
- ▶ Profile finishing: LF blind hole drilling for longitudinal end connector

Return head	No.	FS
<b>LF20C</b>	<b>3 842 526 869</b>	4xFS3, 2xFS4

Material: Return head: Aluminum; anodized  
Hollow shaft: Steel; zinc-plated  
Cover caps: PA; black  
Scope of delivery: Incl. fastening material (FS), cover caps





- ▶ Belt connector for fastening the toothed belt to the trolley slot
- ▶ Profile finishing for strut profile 45x270 for trolley LF20S: M12
- ▶ All connecting parts included for mounting at the profile end (LF20S) or the slot (LF20C)

Belt connector	No.	FS
LF20	2 3 842 535 680	4xFS2, 2xFS5, 2xFS6, 2xFS7, 2xFS8

Material: Aluminum, painted black  
 Scope of delivery: Incl. fastening material (FS)

**FS2**

∅10x∅5x11

**FS5**

DIN7984  
M12x40

**FS6**

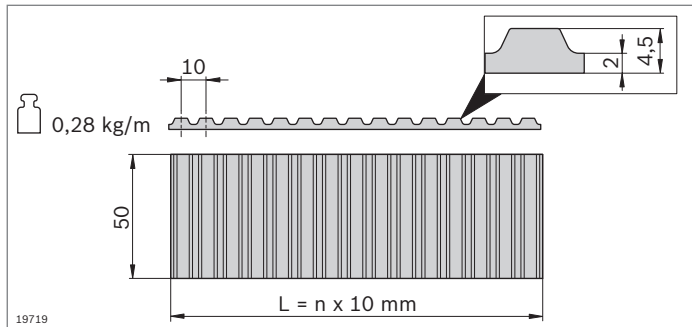
DIN 7984  
M8x30  
DIN EN ISO 7089  
A8,4

**FS7**

DIN 7991  
M8x30

**FS8**

∅18x7

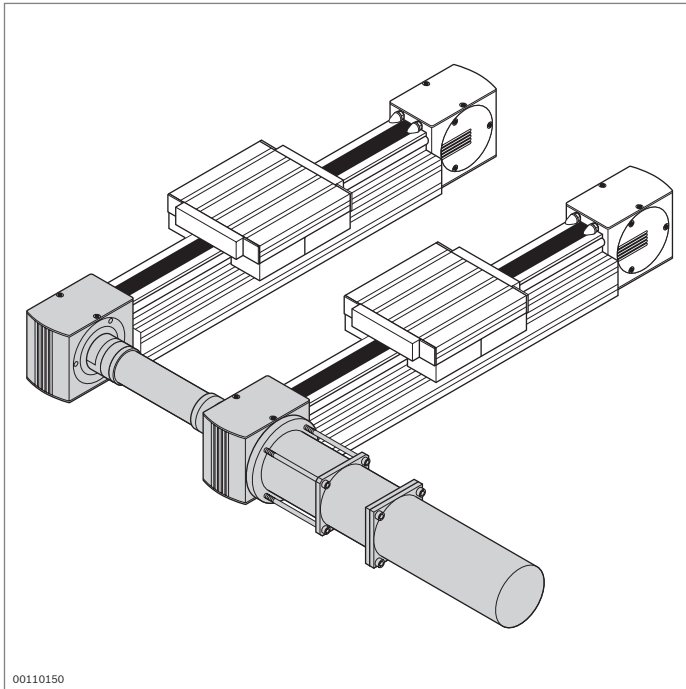


- ▶ Toothed belt as a trolley drive
- ▶ Pitch: AT10

Toothed belt	L (mm)	No.
LF20	300 ... 50000	3 842 994 662 / L <sub>3</sub> <sup>1)</sup>
	50000	3 842 513 648

<sup>1)</sup> L<sub>3</sub> = 2xL<sub>2</sub> - L<sub>1</sub> + 780

Material: PU with embedded steel wires

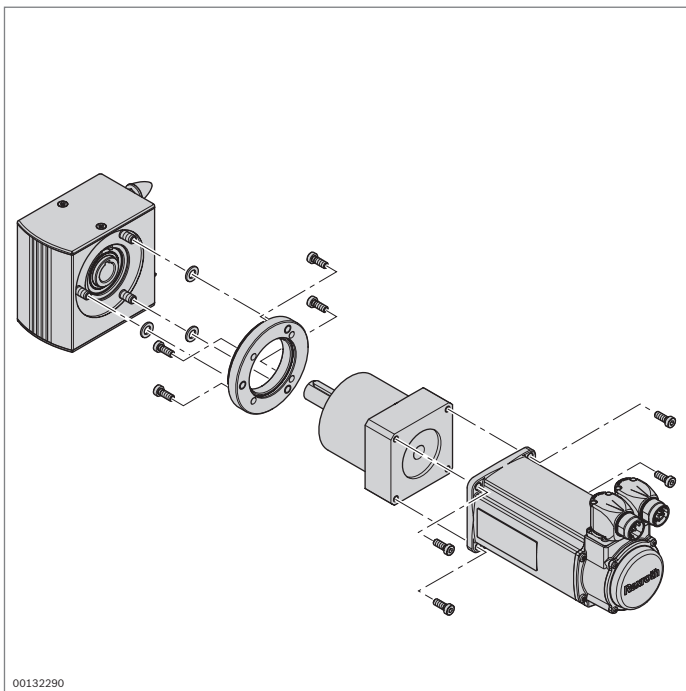


## Linear guide drives

### Drive concept

The linear guides are driven via the hollow shaft in the drive head. The drive head is used to directly install a motor or alternatively (in connection with a plug-in shaft) a hollow shaft gear or a coupling. Depending on the desired speeds of movement for the application, it is necessary to use various motor types in conjunction with intermediate gears. Due to the multitude of drive components available in the market, there are a large number of possible combinations.

The aluminum modular profile system makes it easy to assemble Bosch Rexroth linear guides through the use of a standard shaft and simple connection dimensions.



### Fastening

The drive head is directly secured on the profile by means of longitudinal end connectors.

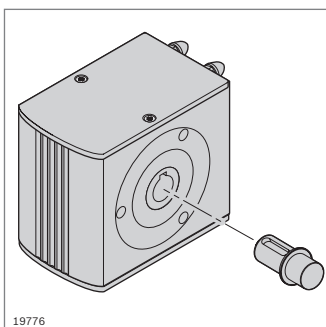
The motor, or the intermediate gear flange, can be screwed to the drive head as a complete unit from the left- or right-hand side.

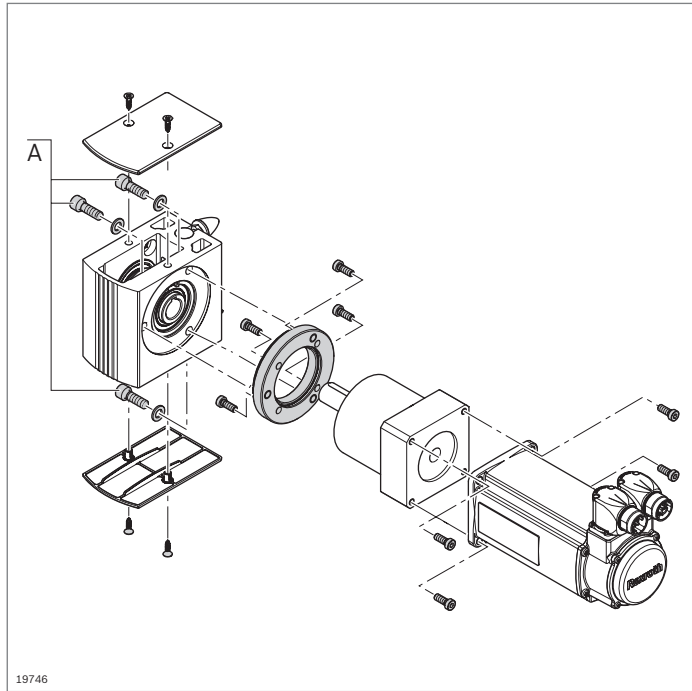
### Synchronous shafts

The use of synchronous shafts (p. 13-42) enables several linear axes to be operated with one drive.

### Connection dimensions (flanges)

The connection dimensions for the size LF6, LF12 and LF20 linear guides are shown on pages 13-40.





### Flange

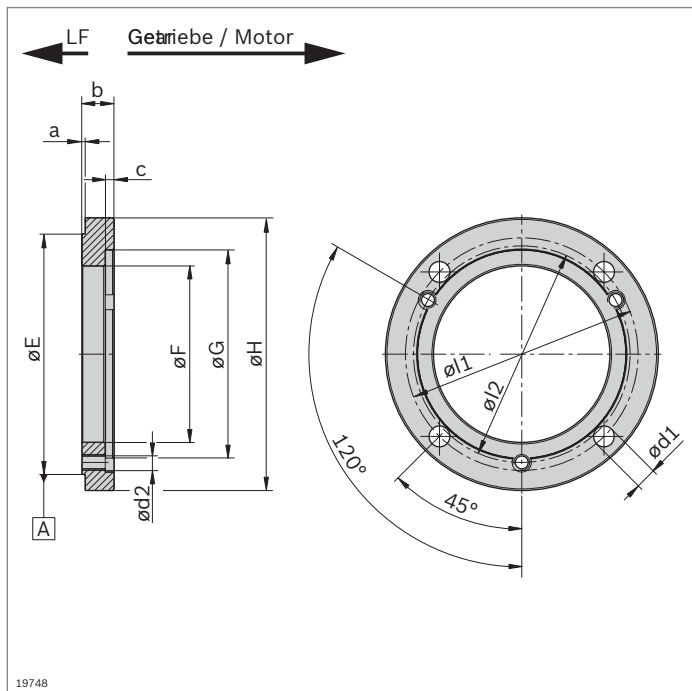
A flange is generally required for fixing the motor/gear unit in place. The connection dimensions for connection to the drive head are shown below. The connection to the motor/gear unit depends on the model chosen in each case.

Also see connection dimensions of drive heads  
 LF6C (p. 13-9),  
 LF12C (p. 13-23), LF12S (p. 13-16),  
 LF20C (p. 13-37), LF20S (p. 13-30)

### Fastening material flange (A)

Note regarding flange in self-build version. Adapt fastening material to suit differing flange thicknesses.

	LF6 (b = 14.5 mm)	LF12 (b = 20 mm)	LF20 (b = 20 mm)
Drive head – flange	ISO 4762 – M8x22 (3x) ISO 7092 – 8 (3x)	ISO 4762 – M8x25 (3x) ISO 7092 – 8 (3x)	ISO 4762 – M10x30 (3x) ISO 7092 – 10 (3x)



Drawing and dimensions for flange in self-build version. Customer-specific adjustment is necessary, depending on the motor and gear unit. The fastening material must be self-sourced.

### Flange

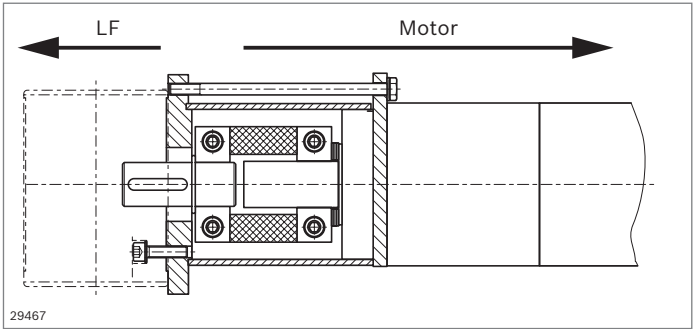
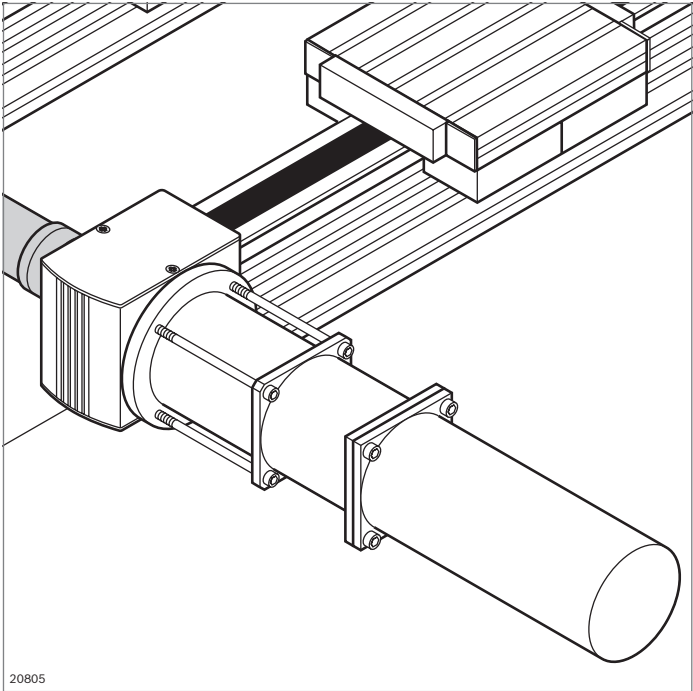
Dimension parameter	LF6 (mm)	LF12 (mm)	LF20 (mm)
a	3.5 ± 0.15	3.5 ± 0.15	2 ± 0.15
b <sub>min</sub> *)	0.05	*)	*)
c *)	*)	*)	*)
E	Ø 88 -0.1/-0.3	Ø 111 -0.1/-0.3	Ø 150 -0.1/-0.3
F <sub>min</sub> *)	Ø *)	Ø *)	Ø *)
G *)	0.05 A	Ø *)	Ø *)
H *)	Ø *)	Ø *)	Ø *)
l1 *)	Ø *)	Ø *)	Ø *)
l2	Ø 78	Ø 100	Ø 135
d1 *)	Ø *)	Ø *)	Ø *)
d2	Ø 0.25 M8	M8	M10

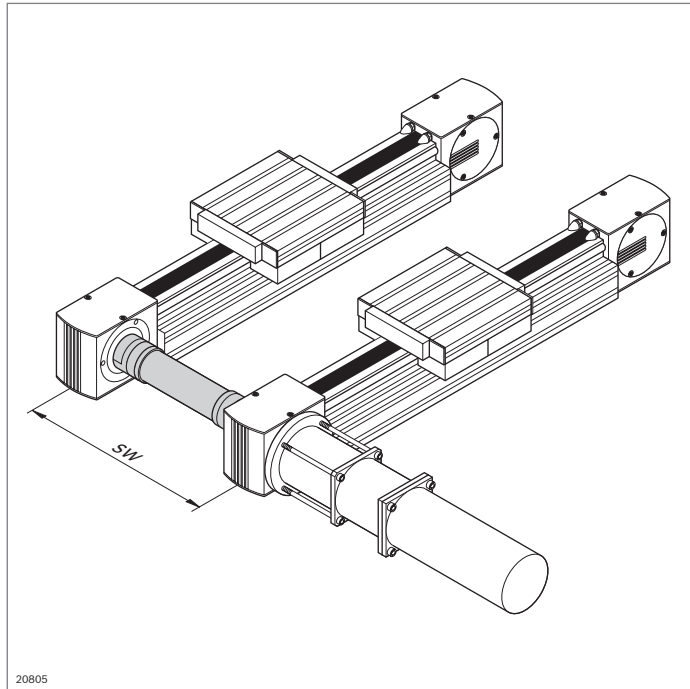
\*) Dimension according to customer drive.

**Notice:** The values must be checked by the user.

### Alternative mounting with coupling

Instead of direct mounting over the section link, a coupling can be inserted. This allows any user truing errors to be rectified. The coupling must be designed and sourced by the customer.





## Plug-in shafts, synchronous shafts

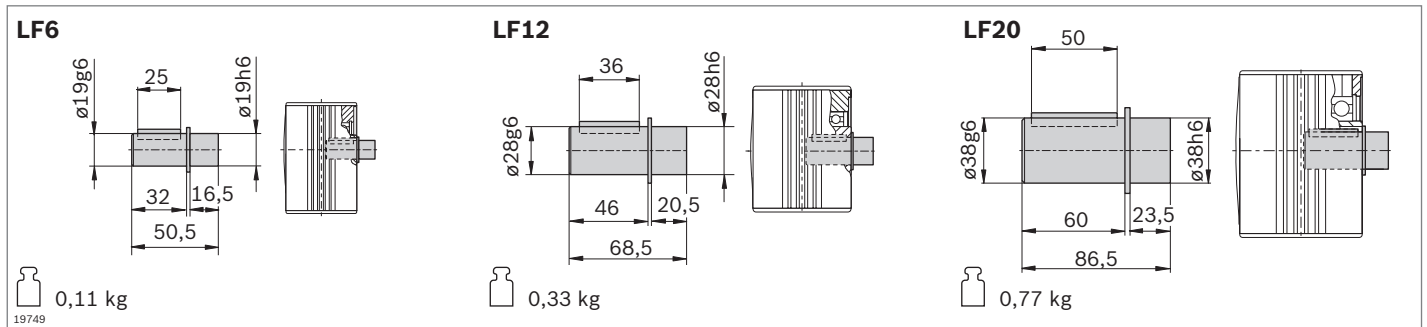
### Plug-in shafts

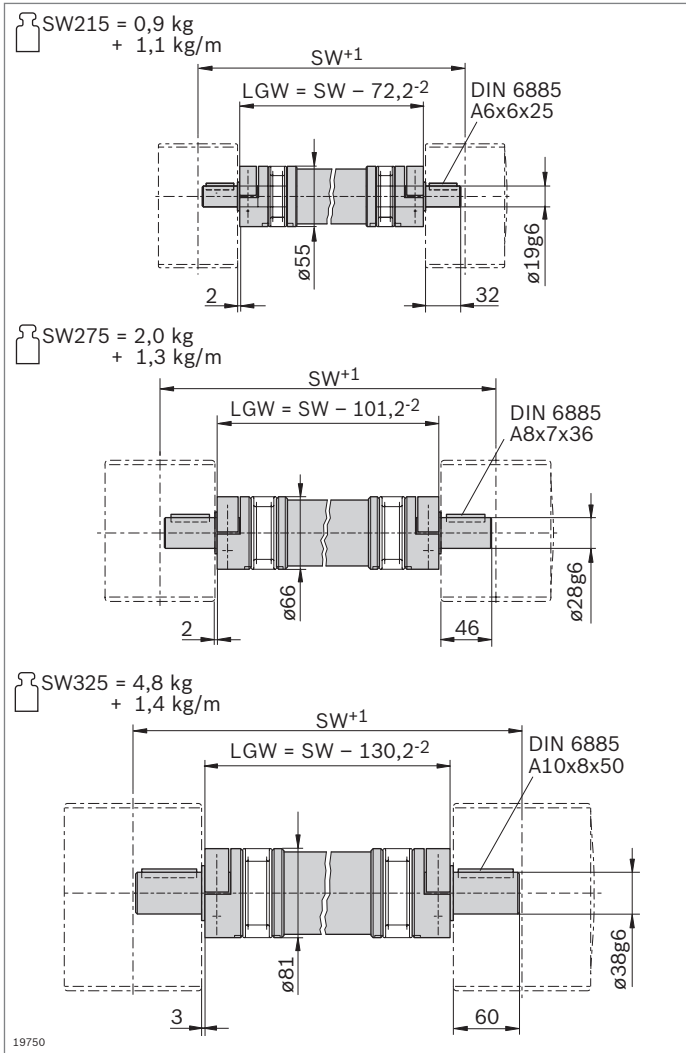
- ▶ Enable the installation of customized drive solutions

Plug-in shaft	No.
LF6	3 842 526 893
LF12	3 842 526 894
LF20	3 842 526 895

Material: Steel; nickel-plated

SW = support separation





### Synchronous shafts

- ▶ Allow several linear guides to be operated synchronously while being driven by a common motor
- ▶ The synchronous shaft can be replaced without the drive heads having to be disassembled

The selection diagrams on page 13-50, 13-51 specify maximum values without safety margins.

Synchronous shaft	SW (mm)	No.
LF6	215 ... 3000	3 842 994 811 / SW
LF12	275 ... 3500	3 842 994 812 / SW
LF20	325 ... 3500	3 842 994 813 / SW

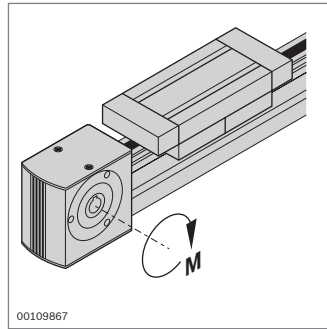
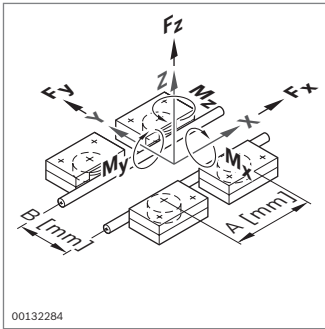
Material: Steel/aluminum

SW = support separation  
 LGW = length of synchronous shaft

## Technical data for roller, design, mounting

### General technical data and calculations

<b>Speed</b>	$v_{\max} = 5 \text{ m/s}$
<b>Acceleration</b>	$a_{\max} = 15 \text{ m/s}^2$
<b>Temperature resistance</b>	$-10 \text{ °C} < \vartheta < 40 \text{ °C}$
<b>Lubrication</b>	All cam roller guide bearings are delivered with built-in lubricating felts.
<b>Condition on delivery</b>	<p>Ungreased (greasing with Klüber Isoflex Topas NCA 52; see assembly instructions <b>3 842 527 226</b>)</p> <p>Lubricating felts with reservoir are not greased.</p> <p>Guide rods are ungreased.</p>
<b>Definition of dynamic load rating C</b>	The radial loading of constant magnitude and direction which a linear rolling bearing can theoretically withstand for a nominal service life of 100 km distance traveled (acc. to ISO 14728 Part 1).
<b>Note regarding maximum load <math>F_{\max}</math></b>	The maximum loads apply to individual loads. Combining loads decreases the expected service life.
<b>Definition and calculation of the nominal service life</b>	The calculated service life which an individual linear rolling bearing – or a group of apparently identical rolling element bearings operating under the same conditions – can attain with a 90 % probability, based on the materials of normal manufacturing quality that are generally used today and under usual operating conditions (acc. to ISO 14728 Part 1) and optimal installation conditions.
<b>Nominal service life at constant speed</b>	$L = \left( \frac{C}{F} \right)^3 10^5$
	$L_h = \left( \frac{L}{2 \cdot s \cdot n_s \cdot 60} \right)$
	<p>L = nominal service life (m)</p> <p><math>L_h</math> = nominal service life (h)</p> <p>C = dynamic load capacity (N)</p> <p>F = equivalent load (N)</p> <p>s = length of stroke* (m)</p> <p><math>n_s</math> = stroke frequency (double stroke) (rpm)</p>
	<p>*) For <math>s &lt; 2 \cdot L_1</math> (trolley length) load capacities are reduced. Please consult us.</p>



### Load-dependent design

- The specified values are maximum single loads, which are reduced when loads are combined

**Notice:** If cumulative forces and moments arise in your application and load limits may be reached, please contact your Rexroth representative for consultation in design.

	$A_{min}^{1)}$ (mm)	$F_z$ (N)	$F_y$ (N)	$M_x$ (Nm)	$M_z$ (Nm)	$M_y$ (Nm)	$v_{max}$ (m/s)	$M_{max}$ (Nm)
<b>LF6C</b>	75	850	1400	$0.4 \cdot B^2$	$0.7 \cdot A^2$	$0.4 \cdot A^2$	5	15
<b>LF12S</b>	90	2000	3500	78.0	$1.7 \cdot A^2$	$1.0 \cdot A^2$	5	30
<b>LF12C</b>	90	2000	3500	$1.0 \cdot B^2$	$1.7 \cdot A^2$	$1.0 \cdot A^2$	5	30
<b>LF20S</b>	135	6000	12500	240.0	$6.2 \cdot A^2$	$3.0 \cdot A^2$	5	100
<b>LF20C<sup>3)</sup></b>	135	6000	12500	$3.0 \cdot B^2$	$6.2 \cdot A^2$	$3.0 \cdot A^2$	5	100

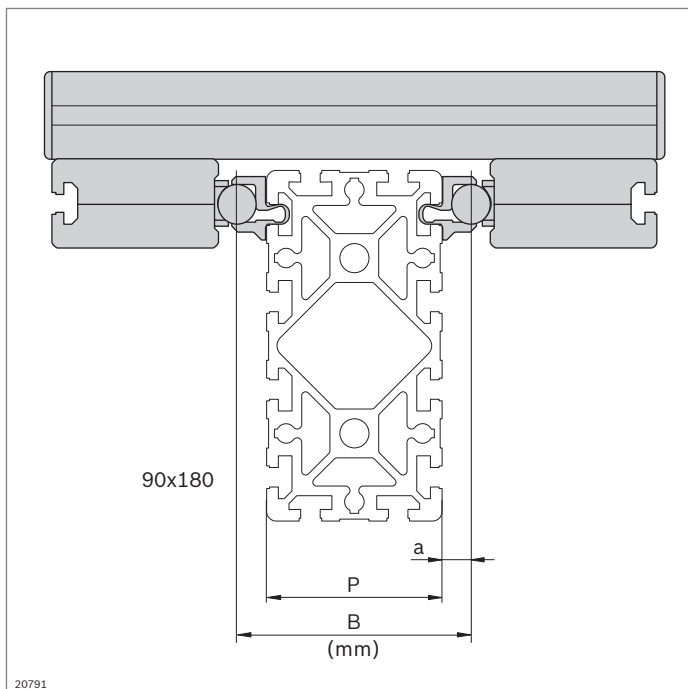
<sup>1)</sup>  $A_{min}$  = Length of guide bearing

<sup>2)</sup> Notice: A (spacing of support wheels, see image above) in mm; see below for calculation of B (track width)

<sup>3)</sup> Maximum values (profile slot load capacity) are only reached with the following profiles: 45x270; 60x90; 90x90; 90x180; 90x360 (see p. 18-15)

Do not exceed the maximum loading of the screwed connections for rails, carriages and fastenings. Ensure sufficiently stable basic profile and respective substructure.

Take account of the general service life of lubricants!



### Calculating the track width B

$$B = P + 2 \cdot a$$

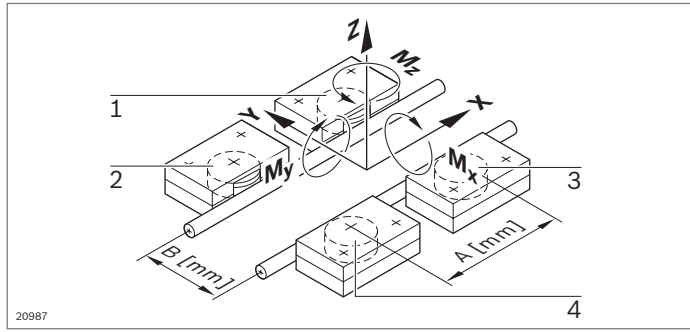
- B = track width (in mm)
- P = profile width (in mm)
- a = rod spacing (in mm)

#### LF ... C

- Values for a: for LF6C = 9.5 mm (p. 13-8)
- for LF12C = 9 mm (p. 13-20)
- for LF20C = 15 mm (p. 13-34)

#### LF ... S

- Values for B: for LF12S = 90 - 12 = 78 mm (p. 13-13)
- for LF20S = 100 - 20 = 80 mm (p. 13-27)



## Calculation of load on bearing for a trolley

### Loading of the individual rollers

- ▶ A mm: Spacing of the rollers' rotational axes
- ▶ B mm: Center-to-center distance between the guide rods
- ▶ Only compressive forces can be transferred between cam rollers and guide rods in the radial direction. The following therefore applies in respect of radial forces:  
 $F_r \leq 0$ ;  $F_r = 0$
- ▶ Cam rollers can be loaded equally in both directions. Therefore force  $F_a$  is sufficient for calculating P and  $P_0$

Cam roller 1:

$$F_r = -\left(\frac{F_y}{2}\right) - \left(\frac{M_z}{A}\right)$$

$$F_a = \left(\frac{F_z}{4}\right) + \left(\frac{M_x}{2 \cdot B}\right) - \left(\frac{M_y}{2 \cdot A}\right)$$

Cam roller 3:

$$F_r = +\left(\frac{F_y}{2}\right) + \left(\frac{M_z}{A}\right)$$

$$F_a = \left(\frac{F_z}{4}\right) - \left(\frac{M_x}{2 \cdot B}\right) - \left(\frac{M_y}{2 \cdot A}\right)$$

Cam roller 2:

$$F_r = -\left(\frac{F_y}{2}\right) + \left(\frac{M_z}{A}\right)$$

$$F_a = \left(\frac{F_z}{4}\right) + \left(\frac{M_x}{2 \cdot B}\right) + \left(\frac{M_y}{2 \cdot A}\right)$$

Cam roller 4:

$$F_r = +\left(\frac{F_y}{2}\right) - \left(\frac{M_z}{A}\right)$$

$$F_a = \left(\frac{F_z}{4}\right) - \left(\frac{M_x}{2 \cdot B}\right) + \left(\frac{M_y}{2 \cdot A}\right)$$

**Table 1: Load factors for cam rollers**

	Load case: $F_r \geq  F_a $				Load case: $F_r <  F_a $			
	x	y	$x_0$	$y_0$	x	y	$x_0$	$y_0$
<b>LF6</b>	1	3.1	1.2	3.5	0.5	3.6	1	3.7
<b>LF12</b>	1	4.2	1.2	5.2	0.5	4.7	1	5.4
<b>LF20</b>	1	4	1.2	4.9	0.5	4.5	1.1	5

**Table 2: Cam rollers - load capacities**

	C for $10^5$ m (N)	$C_0$ (N)
<b>LF6</b>	3670	2280
<b>LF12</b>	8300	5000
<b>LF20</b>	23400	16600

### Equivalent dynamic and static loads

To calculate the service life of a cam roller guide, the roller with the greatest load has to be considered.

The following must be determined:

$$P = \max(P_1, \dots, P_4)$$

$$P_0 = \max(P_{01}, \dots, P_{04})$$

Equivalent dynamic load P

$$P = x \cdot |F_r| + y \cdot |F_a|$$

Equivalent static load  $P_0$

$$P_0 = x_0 \cdot |F_r| + y_0 \cdot |F_a|$$

$F_r$  (N): radial load of the roller

The following applies:  $F_r \leq 0$ ;  $F_r = 0$

$F_a$  (N): axial load of the roller

x,  $x_0$ : Radial factor (table 1)

y,  $y_0$ : Axial factor (table 1)

C: dynamic load capacity (table 2)

$C_0$ : static load capacity (table 2)

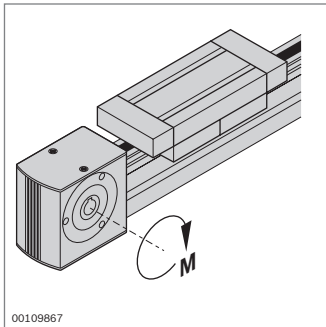
Static safety

values:

$$S_0 = \left(\frac{C_0}{P_0}\right)$$

$S_0 \geq 4$  recommended!

## Size selection



### Determining the forces and moments which arise

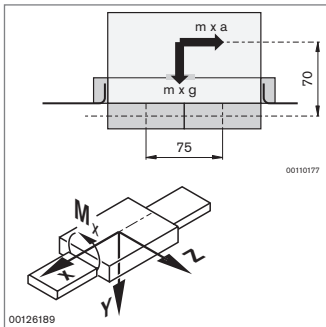
$$F_{x \text{ dyn}}, F_{y \text{ dyn}}, F_{z \text{ dyn}}^{1)}$$

$$M_{x \text{ dyn}}, M_{y \text{ dyn}}, M_{z \text{ dyn}}$$

1)  $F_{z \text{ dyn}}$  includes the weight of the trolley

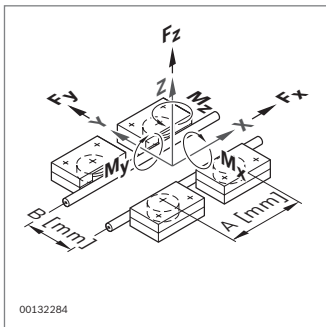
All the influences must be considered, e.g.:

- Net mass and load
- Acceleration forces and moments
- Process forces and moments
- Loads caused by dampers and/or stops



### Determining the permissible forces and moments

For values see p. 13-50



### Selection of the suitable size

$$F_{x, y, z \text{ dyn}} < F_{x, y, z \text{ dyn zul}} !$$

$$M_{x, y, z \text{ dyn}} < M_{x, y, z \text{ dyn zul}} !$$

If F and M are cumulative:

In case of higher load, the next size is to be used.

In case of doubt, please contact your

Rexroth representative for consultation in design.

### Example

$$m = 30 \text{ kg} \quad a = 2.5 \text{ m/s}^2;$$

$$L_1 = 150 \text{ mm} \quad L_2 = 5000 \text{ mm}$$

$$g = 9.81 \text{ m/s}^2$$

$$F_{z \text{ dyn}} = m \cdot g = 294 \text{ N}$$

$$M_{y \text{ dyn}} = m \cdot a \cdot 70 \text{ mm} = 5.25 \text{ Nm}$$

### Example LF 6 C

$$F_{z \text{ dyn zul}} = 850 \text{ N} > F_{z \text{ dyn}} = 294 \text{ N}$$

$$M_{y \text{ dyn zul}} = 0.4 \cdot A = 0.4 \cdot 75 \text{ mm}$$

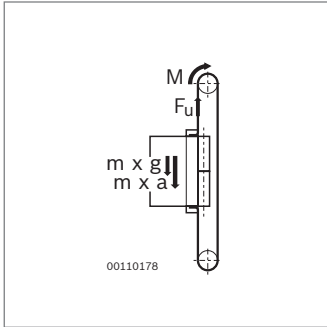
$$= 30 \text{ Nm} > M_{y \text{ dyn}} = 5.25 \text{ Nm}$$

### Example

$$F_{z \text{ dyn}} = 294 \text{ N} < F_{z \text{ dyn zul}} = 850 \text{ N} !$$

$$M_{y \text{ dyn}} = 5.25 \text{ Nm} < M_{y \text{ dyn zul}} = 30 \text{ Nm} !$$

## Calculating the drive

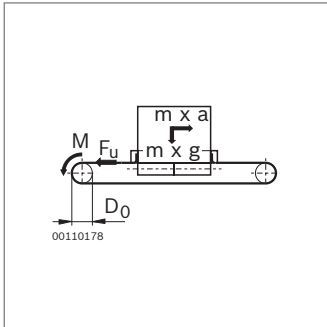


### Peripheral force $F_u$

$$F_u = m \cdot a + m \cdot g + F_0 + \mu \cdot m \cdot g$$

$$F_u \leq F_{u\text{ zul}} !$$

$F_0$ : frictional force on return units  
 $\mu$ : coefficient of friction of the guide  
 see table below.



### Alternative calculation formula

$$F_u = m \cdot a + F_0 + \mu \cdot m \cdot g \leq F_{u\text{ zul}} !$$

### Example of LF6C

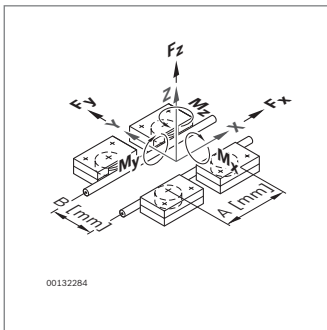
$$m = 30 \text{ kg}; \quad a = 2.5 \text{ m/s}^2$$

$$F_u = (30 \cdot 2.5) \text{ N} + 10 \text{ N}$$

$$+ (0.025 \cdot 30 \cdot 9.81) \text{ N}$$

$$F_u = 75 \text{ N} + 10 \text{ N} + 0.025 \cdot 294 \text{ N}$$

$$F_u = 92.35 \text{ N} < F_{u\text{ zul}} = 600 \text{ N} !$$



### Required drive torque M

$$M = \frac{1}{2} \cdot D_0 \cdot F_u \leq M_{\text{zul}} !$$

### Example

$$M = \frac{1}{2} \cdot 50.94 \text{ mm} \cdot 92.35 \text{ N}$$

$$= 2.4 \text{ Nm}$$

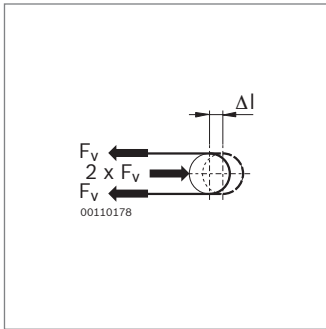
$$M = 2.35 \text{ Nm} \leq M_{\text{zul}}$$

$$= 15 \text{ Nm} !$$

	v (m/s)	$F_{u\text{ zul}}$ (N)	$M_{\text{zul}}$ (Nm)	$F_0$ (N)	$\mu$	$D_0$ (mm)	$D_0 \times \pi$ (mm)
<b>LF6C</b>	$\leq 5.0$	600	15.0	10	0.025	50.94	160
<b>LF12S</b>	$\leq 5.0$	820	30.0	30	0.020	73.20	230
<b>LF12C</b>	$\leq 5.0$	820	30.0	30	0.020	73.20	230
<b>LF20S</b>	$\leq 5.0$	2000	100.0	35	0.015	101.86	320
<b>LF20C</b>	$\leq 5.0$	2000	100.0	35	0.015	101.86	320

$F_0$ : frictional force on return units;  $\mu$ : coefficient of friction

## Checking the selected size



### Preload force $F_v$ of toothed belt

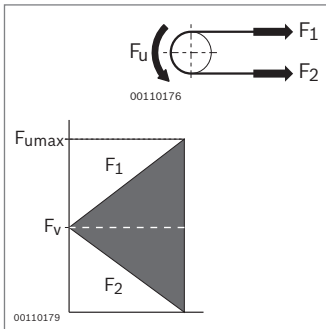
$$0.5 \cdot F_u \leq F_v \leq F_u$$

Recommendation:  $F_v = 0.5 \cdot F_u$

### Example

$$F_u = 92.35 \text{ N}$$

$$F_v = 50 \text{ N}$$



### Maximum toothed belt force $F_{1 \max}$

$$F_{1 \max} = F_v + 0.5 \cdot F_u \leq F_{1 \text{ zul}} !$$

$$F_{2 \min} = F_v - 0.5 \cdot F_u > 0 !$$

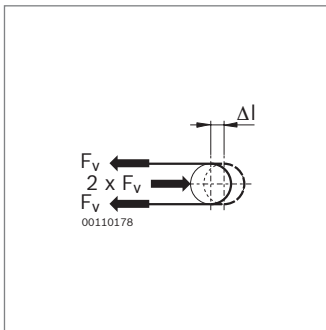
### Example of LF6C

$$F_{1 \max} = 50 \text{ N} + 0.5 \cdot 92.35 \text{ N}$$

$$F_{1 \max} = 96.18 \text{ N} < F_{1 \text{ zul}} = 900 \text{ N} !$$

$$F_{2 \min} = 50 \text{ N} - 0.5 \cdot 92.35 \text{ N}$$

$$F_{2 \min} = 3.825 \text{ N} > 0 !$$



### Required preload length $\Delta l$

$$\Delta l = 0.5 \cdot F_v \cdot L / C_{\text{spez}} \leq \Delta l_{\max} !$$

### Example

$$L = 2 \cdot L_2 - L_1 + 400 \text{ mm}$$

$$L = 10250 \text{ mm}$$

$$\Delta l = 0.5 \cdot 50 \text{ N} \cdot 10250 \text{ mm}$$

$$/ 420000 \text{ N}$$

$$\Delta l = 0.8 \text{ mm} < \Delta l_{\max} = 13 \text{ mm} !$$

	$F_{1 \text{ zul}}$ (N)	$C_{\text{spez}}$ (N)	$\Delta l_{\max}$ (mm)	L (mm)	Page
<b>LF6C</b>	900	420000	13	$2 \cdot L_2 - L_1 + 400$	13-6
<b>LF12S</b>	1230	1250000	16	$2 \cdot L_2 - L_1 + 630$	13-11
<b>LF12C</b>	1230	1250000	16	$2 \cdot L_2 - L_1 + 630$	13-18
<b>LF20S</b>	3000	1870000	23	$2 \cdot L_2 - L_1 + 780$	13-25
<b>LF20C</b>	3000	1870000	23	$2 \cdot L_2 - L_1 + 780$	13-32

$C_{\text{spez}}$ : Belt stiffness;

L: Toothed belt length,

see also LF6C (p. 13-6),

LF12S (p. 13-11), LF12C (p. 13-18),

LF20S (p. 13-25), LF20C (p. 13-32)

## Dimensioning of synchronous shafts






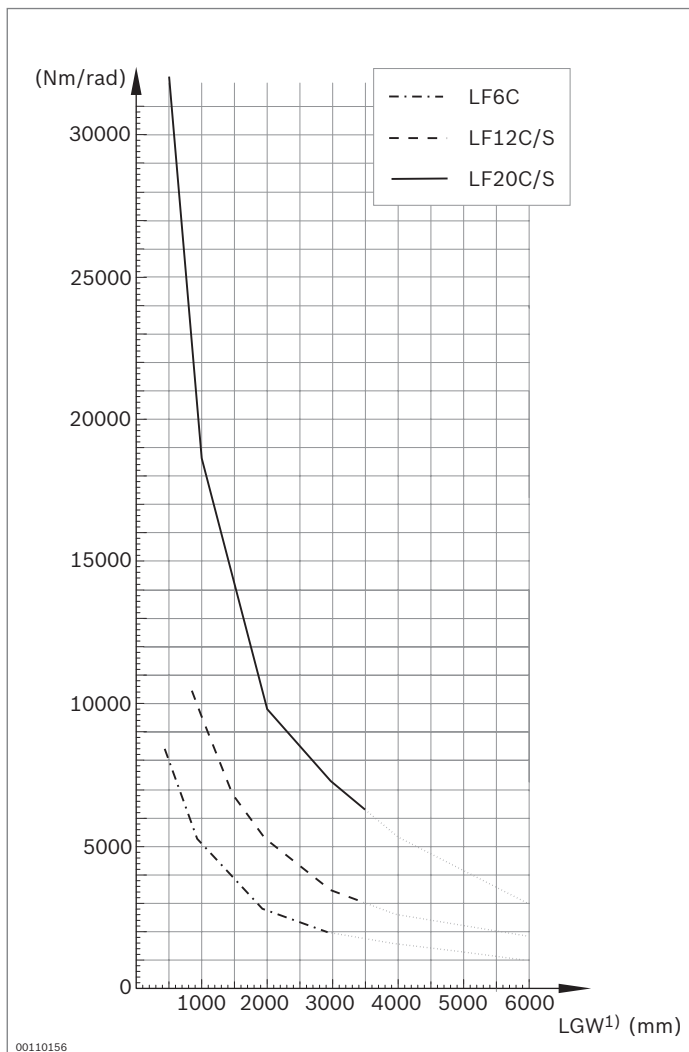
			LF6	LF12	LF20
Support separation SW	horizontal		215 ... 3000 mm	275 ... 3500 mm	325 ... 3500 mm
	vertical		215 ... 2000 mm	275 ... 2000 mm	325 ... 1100 mm
Rated torque			max. 30 Nm	max. 60 Nm	max. 150 Nm
Permitted rpm			Diagram 3 (p. 13-51) max. $0.7 \cdot n_k$	Diagram 3 (p. 13-51) max. $0.7 \cdot n_k$	Diagram 3 (p. 13-51) max. $0.7 \cdot n_k$
Elasticity	axial		max. 2 mm	max. 3 mm	max. 4 mm
	lateral		Diagram 4 (p. 13-51)	Diagram 4 (p. 13-51)	Diagram 4 (p. 13-51)
	rotation angle		Diagram 5 (p. 13-51)	Diagram 5 (p. 13-51)	Diagram 5 (p. 13-51)

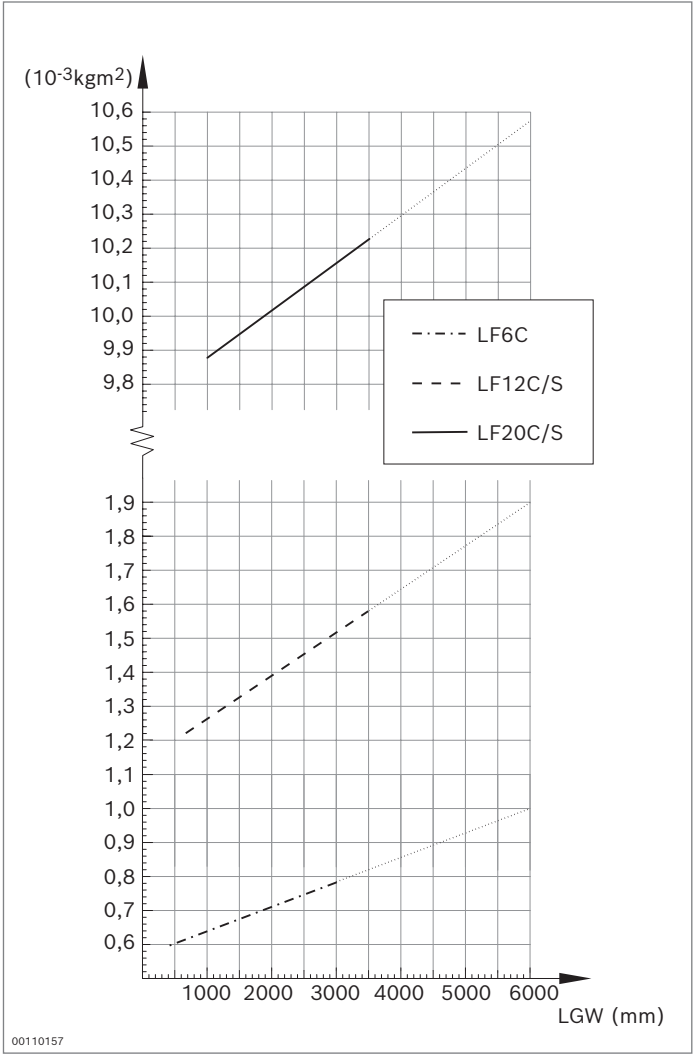
Diagram 1: Torsion stiffness



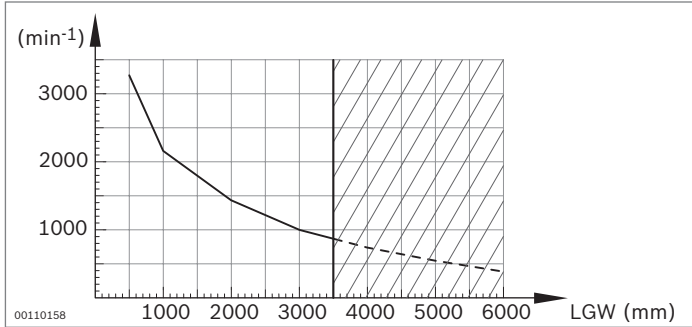
1) Length synchronous shaft LGW

- LF6    LGW = SW - 72
- LF12    LGW = SW - 101
- LF20    LGW = SW - 130

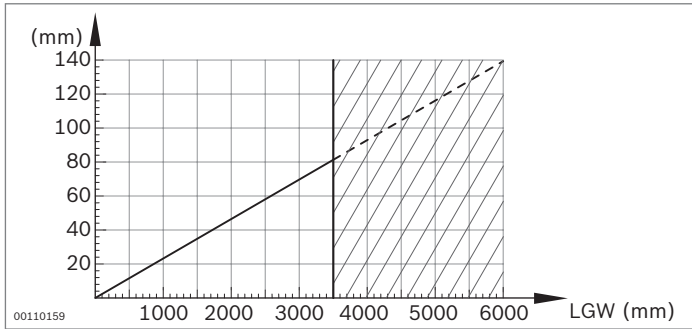
**Diagram 2: Mass inertia**



**Diagram 3: Critical rpm due to bending  $n_k$**

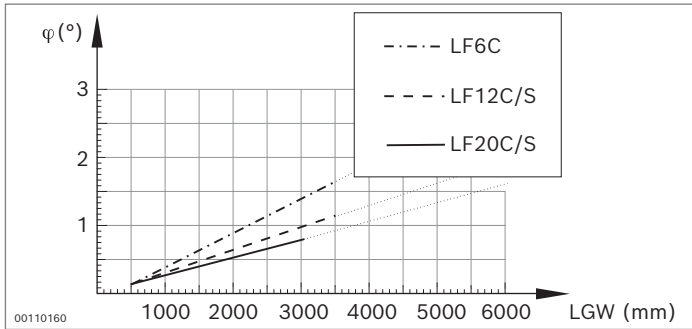


**Diagram 4: Lateral offset**



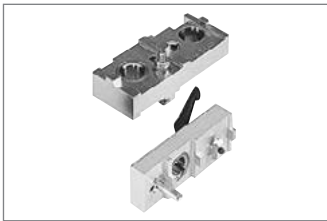
Aligned shafts are recommended.

**Diagram 5: rotation angle**

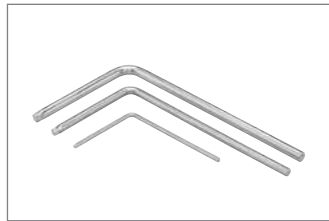




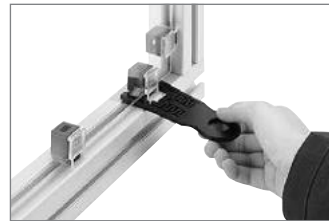
# Tools



Drilling jigs (p. 14-2)



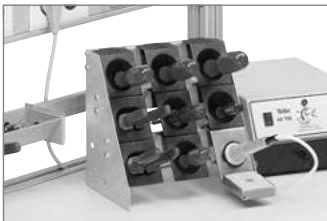
Torx® offset screwdriver  
(p. 14-6)



Variofix remover,  
flexible grinder for anodized  
surfaces (p. 14-8)



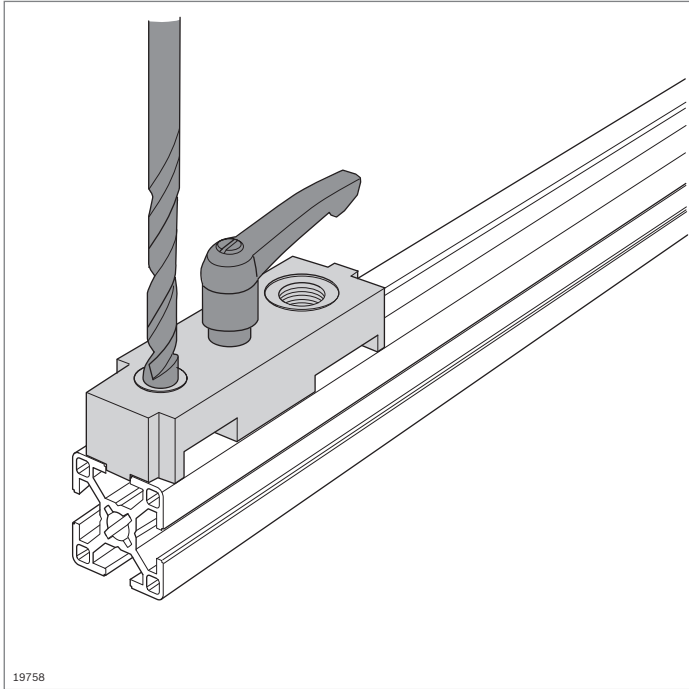
Miter cutter (p. 14-8)



Tool shelf,  
tool holder (p. 14-9)

Please request information on the complete  
Bosch power tools range.

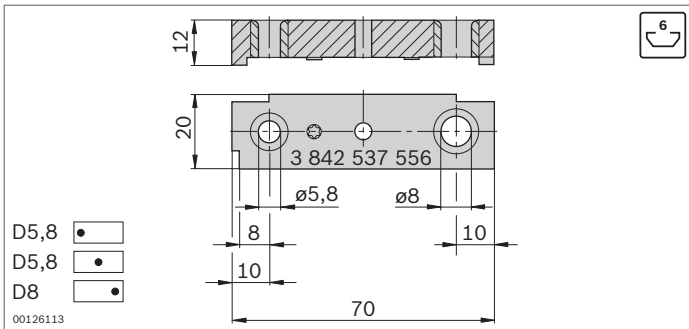
Robert Bosch Power Tools GmbH  
Max-Lang-Strasse 40-46  
70771 Leinfelden-Echterdingen, Germany  
[www.bosch-pt.com](http://www.bosch-pt.com)



## Drilling jigs



- ▶ For simple drilling of standard holes for the Rexroth range of connectors
- ▶ Stopping surfaces and edges for precise hole positioning
- ▶ Lockable



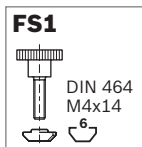
### Drilling jigs - slot 6 mm

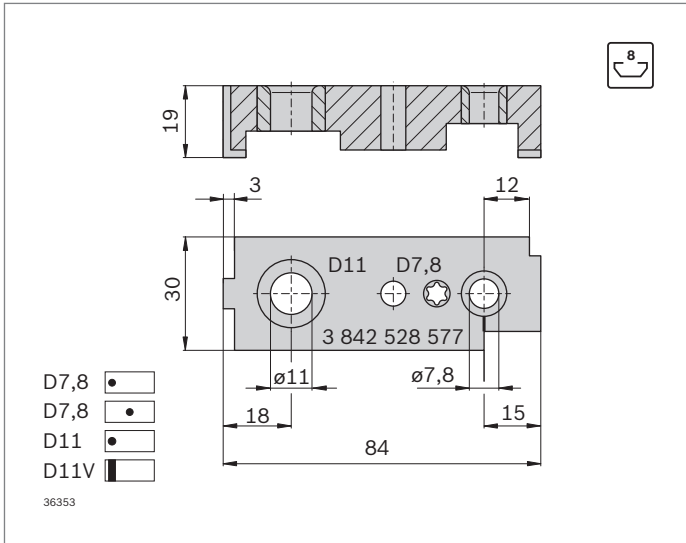
- ▶ For through-holes ( $\varnothing 5.8$ ) for hexagonal-star socket screwdrivers T25
- ▶ For fastening holes ( $\varnothing 8$ ) for quick connectors

Drilling jig	No.	FS
Slot 6 mm	3 842 537 556	FS1

Material: Aluminum

Scope of delivery: Incl. fastening material (FS)



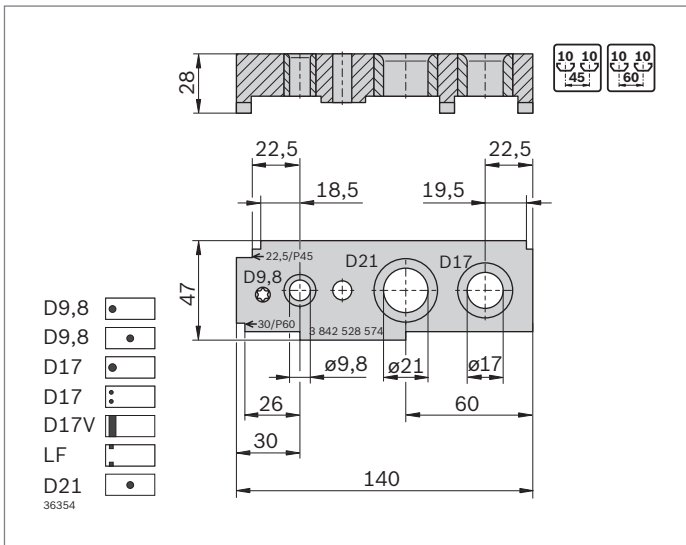
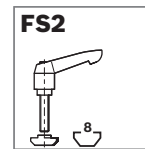


### Drilling jigs – slot 8 mm

- ▶ For through-holes (ø7.8) for hexagonal-star socket screwdrivers T40
- ▶ For fastening holes (ø11) for quick connectors

Drilling jig	No.	FS
Slot 8 mm	3 842 528 577	FS2

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

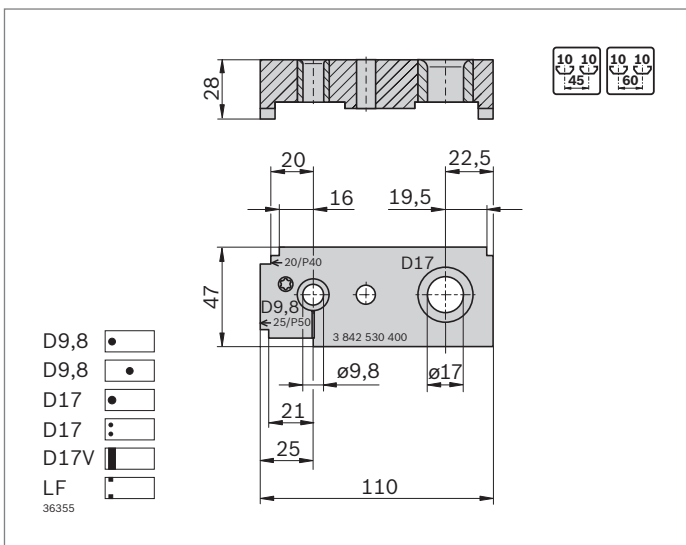
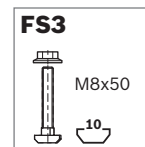


### Drilling jigs – slot 10 mm, modular dimensions 45, 60

- ▶ For fastening holes (ø17) for bolt connectors, quick connectors, and threaded sleeves
- ▶ For through-holes (ø9.8) for hexagonal-star socket screwdrivers T50
- ▶ For counterbores (ø21) for pneumatic connections

Drilling jig	No.	FS
Slot 10 mm, modular dimensions 45, 60	3 842 528 574	FS3

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

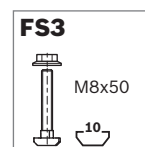


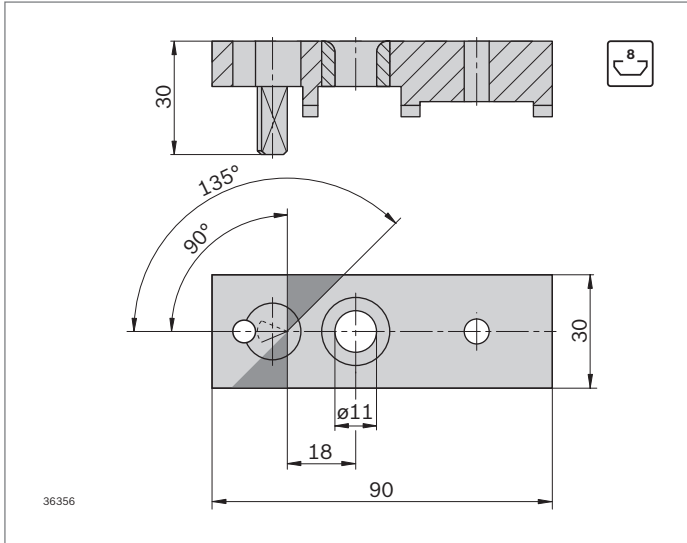
### Drilling jigs – slot 10 mm, modular dimensions 40, 50

- ▶ For through-holes (ø9.8) for hexagonal-star socket screwdrivers T50
- ▶ For fastening holes (ø17) for bolt connectors, quick connectors, and threaded sleeves

Drilling jig	No.	FS
Slot 10 mm, modular dimensions 40, 50	3 842 530 400	FS3

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



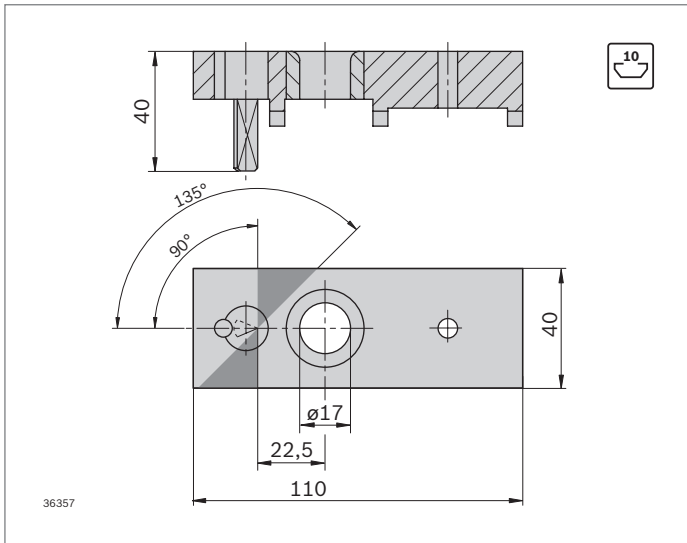
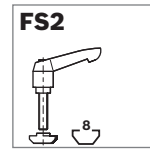


### Drilling jig for diagonally sawn profiles – slot 8 mm

- For fastening holes (ø11) for bendable quick connectors

Drilling jig	No.	FS
Slot 8 mm – diagonally sawn profiles	3 842 516 729	FS2

Material: Aluminum  
 Scope of delivery: Incl. fastening material (FS)  
 Also see bendable quick connector (p. 3-61)

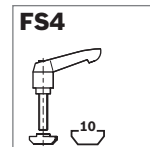


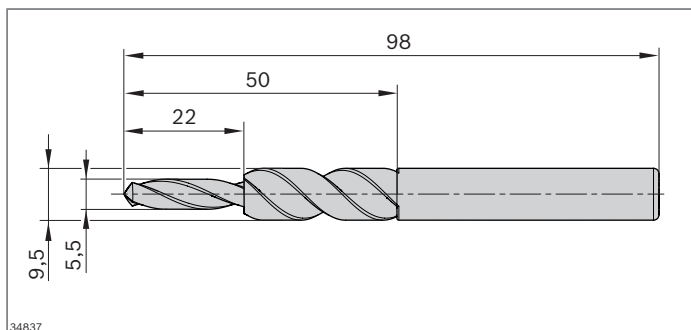
### Drilling jig for diagonally sawn profiles – slot 10 mm

- For fastening holes (ø17) for bendable quick connectors

Drilling jig	No.	FS
Slot 10 mm – diagonally sawn profiles	3 842 516 731	FS4

Material: Aluminum  
 Scope of delivery: Incl. fastening material (FS)  
 Also see bendable quick connector (p. 3-61)

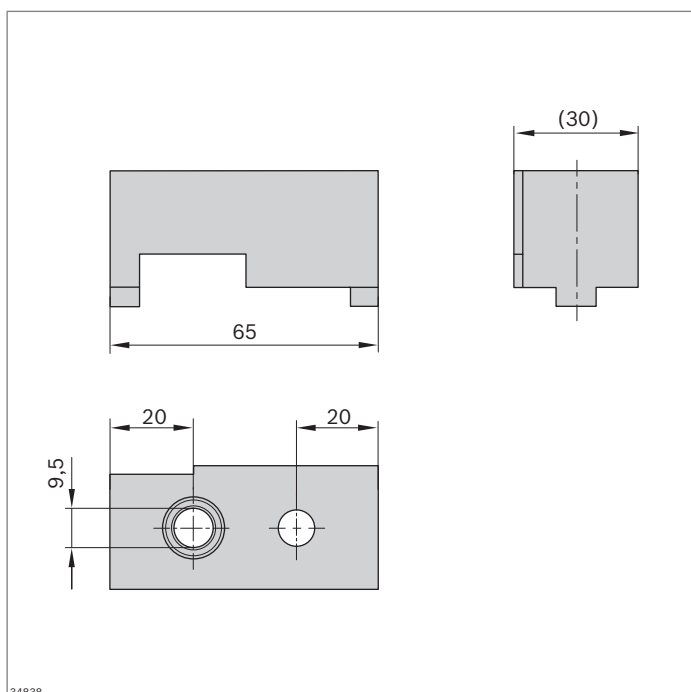


**Step drill**

- ▶ Step drill M5x5.5 - 9.5x22
- ▶ For the production of stepped bores for connecting direct panels on the strut profile 45x45(L)
- ▶ Efficient production of through holes with flat countersink for screws

Step drill DF	No.
	<b>3 842 567 968</b>

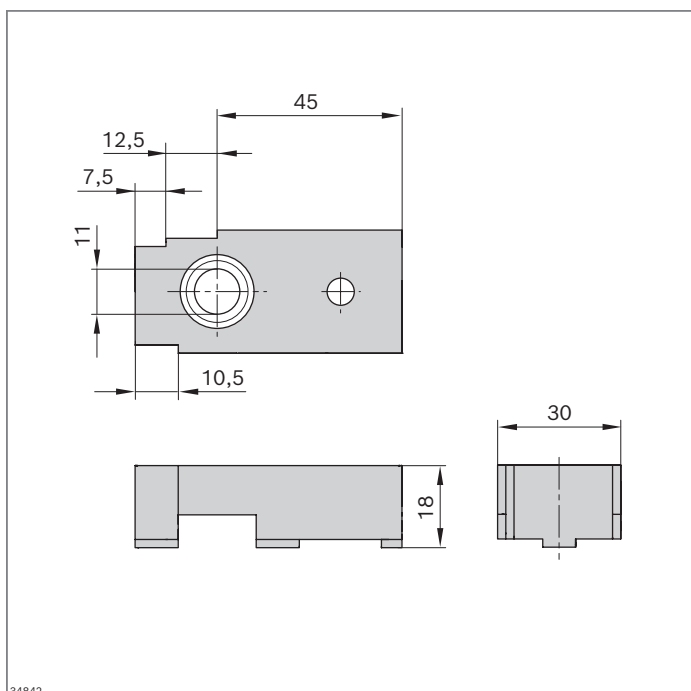
Material: Steel; coated by chemical vapor deposit

**Drilling jigs**

- ▶ Drilling jig for stepped bore for fastening a frame profile 22.5x45 to a strut profile 45x45(L)
- ▶ Stop surfaces and edges for precise positioning
- ▶ Stepped bore D5.5-9.5

Drilling jig EcoSafe DF	Slot ESD No.
	10  <b>3 842 567 969</b>

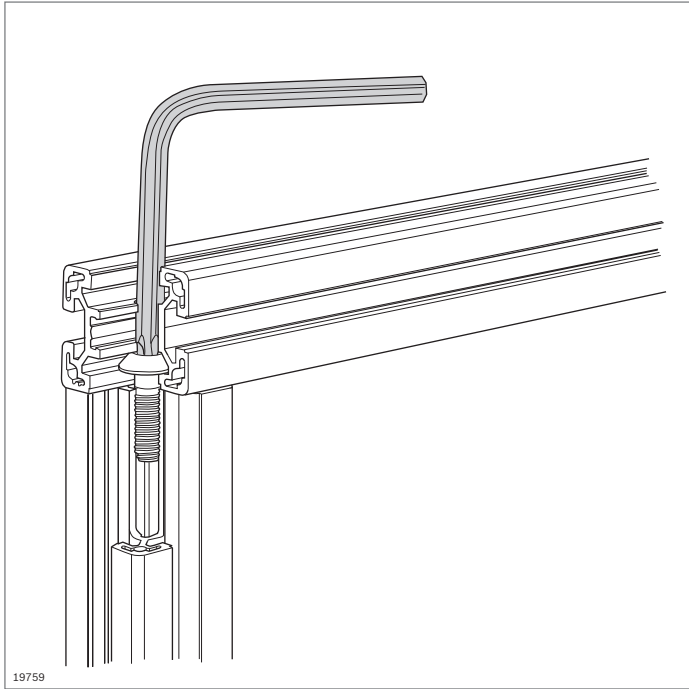
Material: Base body: Aluminum; anodized  
Drilling bush: Steel; hardened  
Fastening material: Steel; zinc-plated



- ▶ Drilling jig to establish the corner connection of protective frame of frame profile 22.5x45
- ▶ For standard step drill according to DIN1897 (180 degrees, M6, L=195 mm, L1=15 mm, Ds: 11.0)

Drilling jig EcoSafe PG	Slot No.
	<b>8 3 842 567 976</b>

Material: Base body: Aluminum; anodized  
Drilling bush: Steel; hardened  
Clamping lever: Steel; bronzed

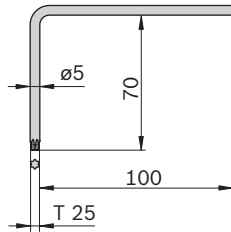


## Torx® offset screwdriver



- ▶ Offset screwdriver for the central bolts (p. 3-43):
  - S6x16-**T25**
  - S8x25-**T40**
  - S12x30-**T50**, M12x30-**T50**
- ▶ Long shank for easy screw head access

**T25**



00111397

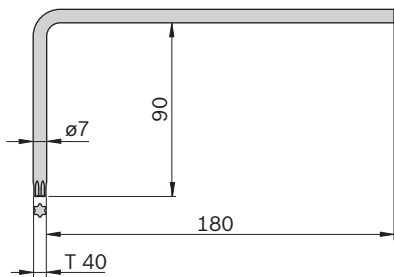
**Offset screwdriver T25**

**No.**

5 **3 842 528 590**

Material: Chrome vanadium steel

**T40**



00111398

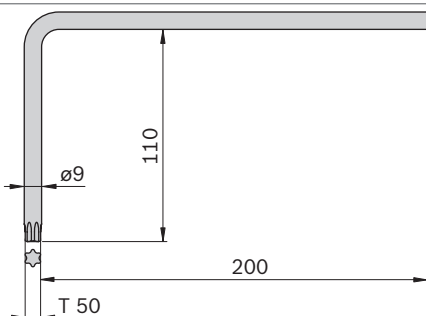
**Offset screwdriver T40**

**No.**

5 **3 842 528 588**

Material: Chrome vanadium steel

**T50**



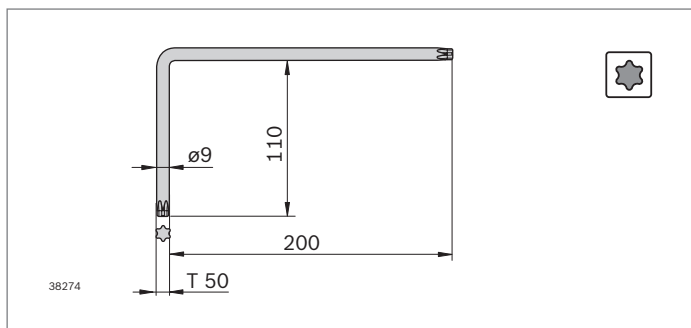
00111399

**Offset screwdriver T50**

**No.**

5 **3 842 528 586**

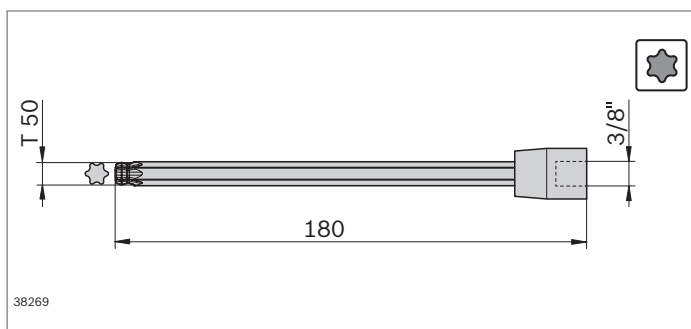
Material: Chrome vanadium steel

**Offset screwdriver T50/T50 L200**

No.

5 3 842 558 181

Material: Steel; nickel-plated

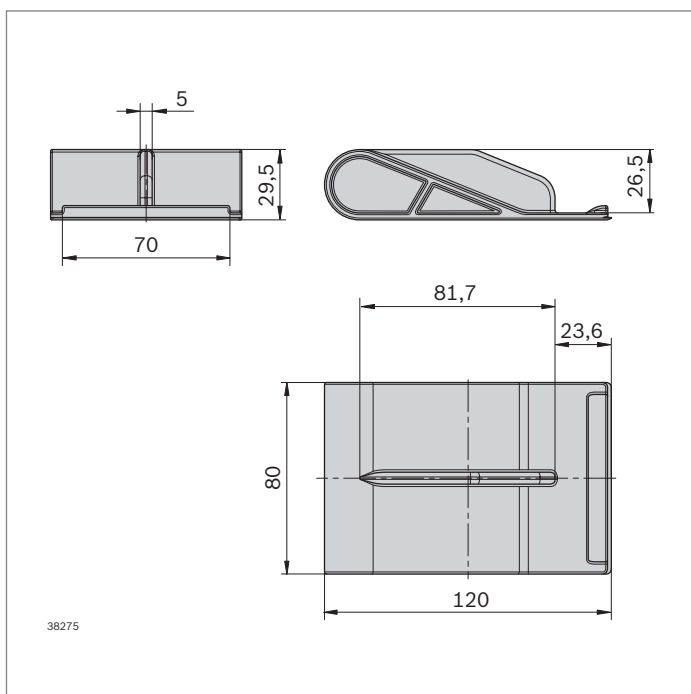
**Wrench socket**

- ▶ For mechanical or manual assembly/torque
- ▶ Length adapted to profile joint mounting
- ▶ Drive 3/8" wrench socket, output T50
- ▶ Stable ball head for screws without axial access

**Wrench socket T50x180, 3/8"**

No.

1 3 842 558 194

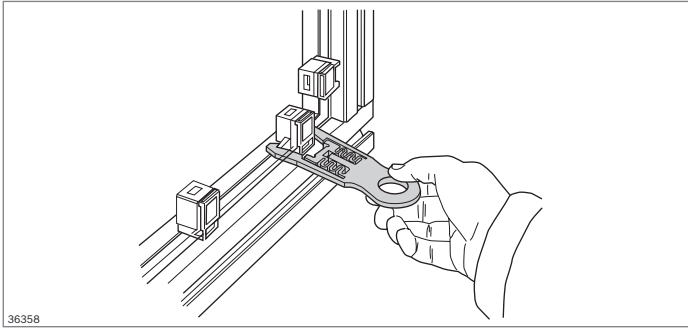
**Disassembly tool**

- ▶ Hand tool for gentle opening of cable guide profiles 40x120x120, 60x120, 120x120 and 120x120 6N

**Disassembly tool**

No.

1 3 842 558 196

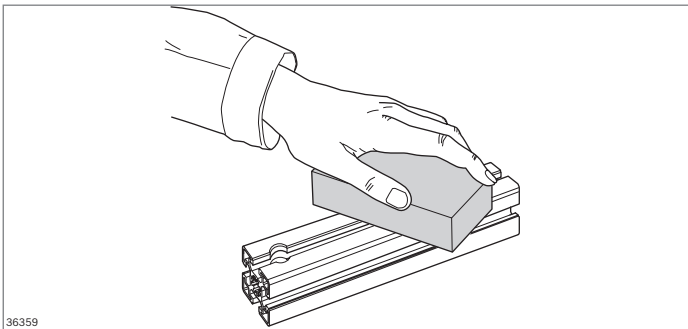


### Variofix remover

- ▶ For fast, easy removal of the Variofix snap-in clip (p 7-6), even in hard-to-reach places
- ▶ The Variofix remover is pushed onto the snap-in clip of the Variofix block so that it spreads the teeth of the clip and can then be removed together with the clip

Variofix remover	No.
	10 3 842 526 589

Material: PA

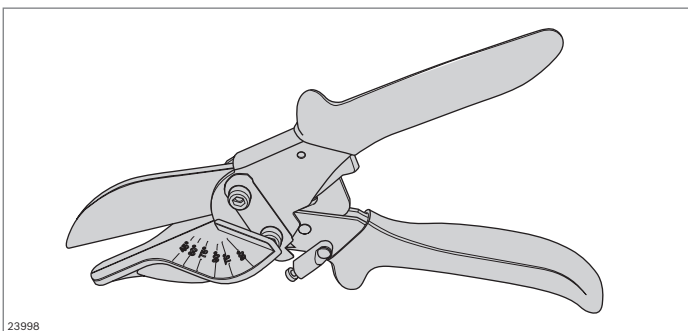


### Flexible grinder for anodized surfaces

- ▶ Hand grinder for removing light soiling and minor scratches
- ▶ Handy grindstone made of flexible base material containing abrasive agents
- ▶ Long service life thanks to automatic, continual surface renewal, like an eraser
- ▶ Suitable for all natural-colored, anodized surfaces, e.g. also for aluminum windows and doors

Flexible grinder for anodized surfaces	No.
	3 842 518 650

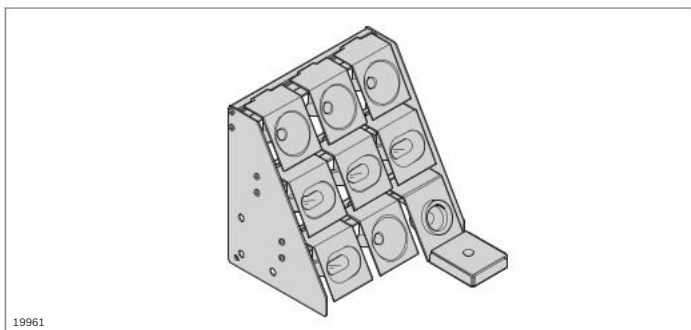
Material: Silicon carbide 60 %  
Polyurethane 40 %



### Miter cutter

- ▶ For cutting plastic profiles to length, e.g. groove cover profiles

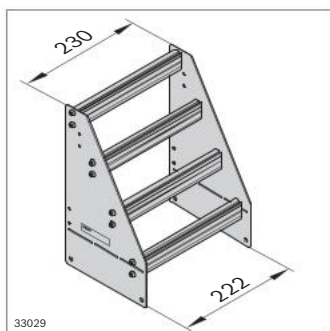
Miter cutter	No.
	3 842 547 982



## Tool shelf Tool holder

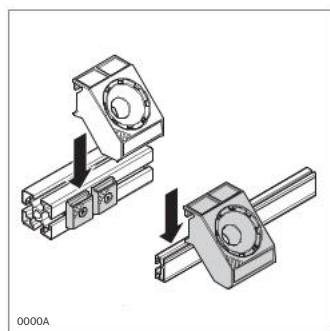
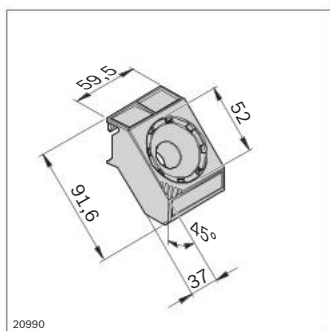


- ▶ Tool shelf and tool holder for ergonomic and handy positioning of tools at the workstation
- ▶ Tool shelf can be individually equipped
- ▶ Accessories: Container mount (p. 2-65)



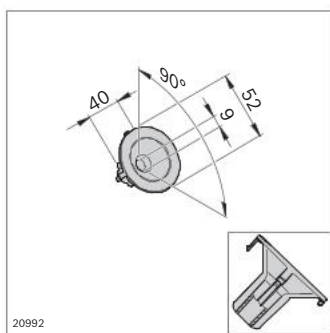
Tool shelf	ESD No.
	3 842 554 909

Material: Side parts: Sheet aluminum  
Suspension profile: Aluminum; anodized

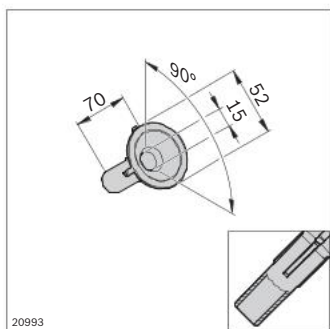


## D52 tool holder for D52-9 and D52-15 bucket trays

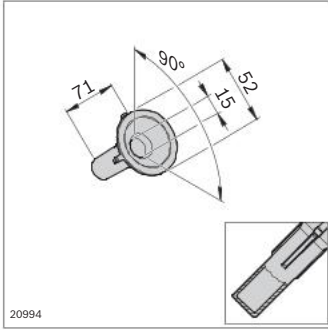
Tool holder D52	ESD No.
	3 842 544 832



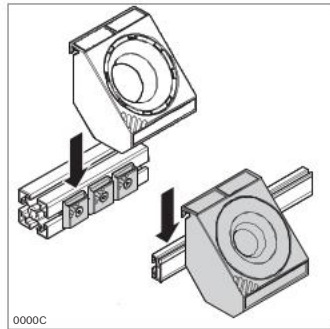
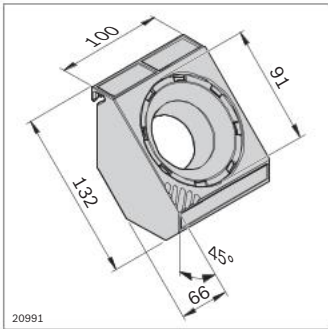
Bucket tray D52-9 (without base)	ESD No.
	3 842 544 834



Bucket-tray D52-15 (without base)	ESD No.
	3 842 544 835

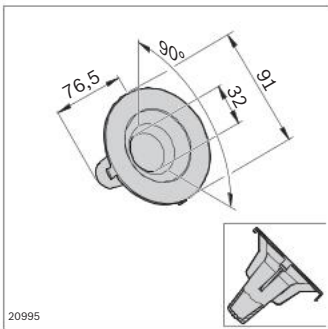


<b>Bucket-tray D52-15 (with base)</b>	<b>ESD No.</b>
	3 842 544 836

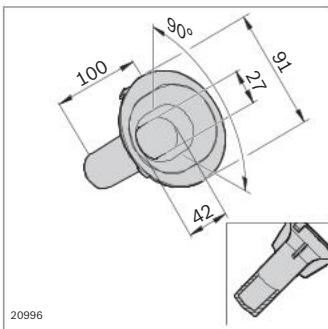


**Tool holder D91 for bucket trays D91-32, D91 Oval53 L100 and D91 Oval53 L136**

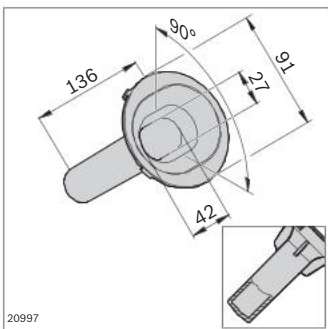
<b>Tool holder D91</b>	<b>ESD No.</b>
	3 842 544 833



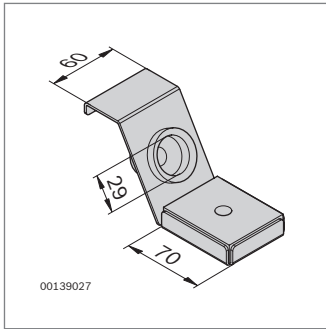
<b>Bucket-tray D91-32 (with base)</b>	<b>ESD No.</b>
	3 842 544 837



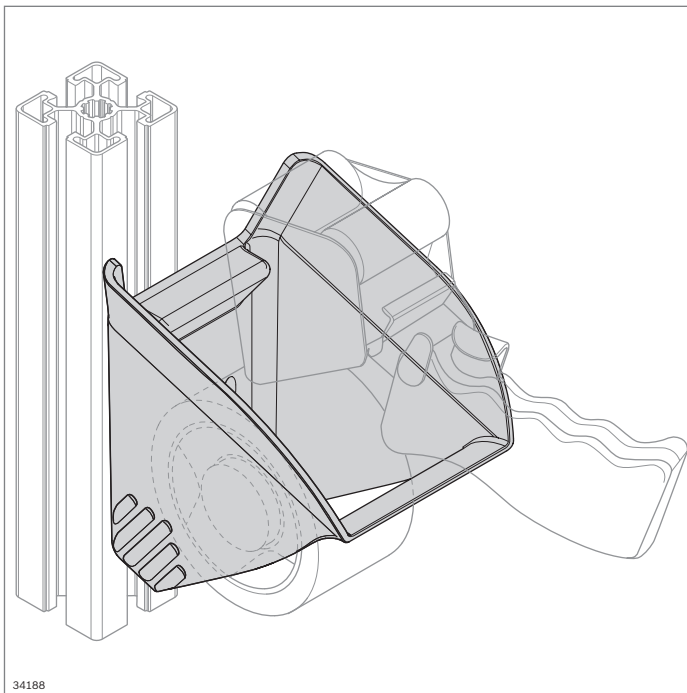
<b>Bucket tray D91 Oval53 L100 (with base)</b>	<b>ESD No.</b>
	3 842 546 744



<b>Bucket tray D91 Oval53 L136 (with base)</b>	<b>ESD No.</b>
	3 842 546 745



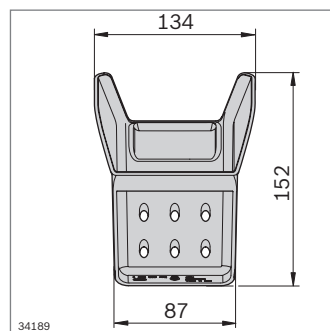
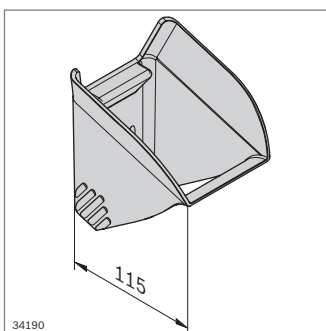
<b>Tool holder for soldering irons</b>	<b>ESD No.</b>
	 <b>3 842 514 524</b>



### Tool holder TAPE 50 mm



- ▶ Tool holder for tape dispenser with a width of 50 mm
- ▶ Time savings of 10 % to 20 % based on MTM, achievable with
  - Defined place for faster reaching and picking
  - Docking aids for easy, ergonomic depositing
- ▶ Supports 5S principles for order and cleanliness at the workstation via defined place



<b>Tool holder TAPE 50 mm</b>	<b>ESD No.</b>
	 <b>3 842 555 673</b>

Material: PA 6; black

Scope of delivery: Incl. fastening material for fastening in 8 mm or 10 mm slots



# FiFo station



Guide rail (p. 15-2)



Adapter (p. 15-3)



Right end cap, small  
(p. 15-3)



Left end cap, small  
(p. 15-3)

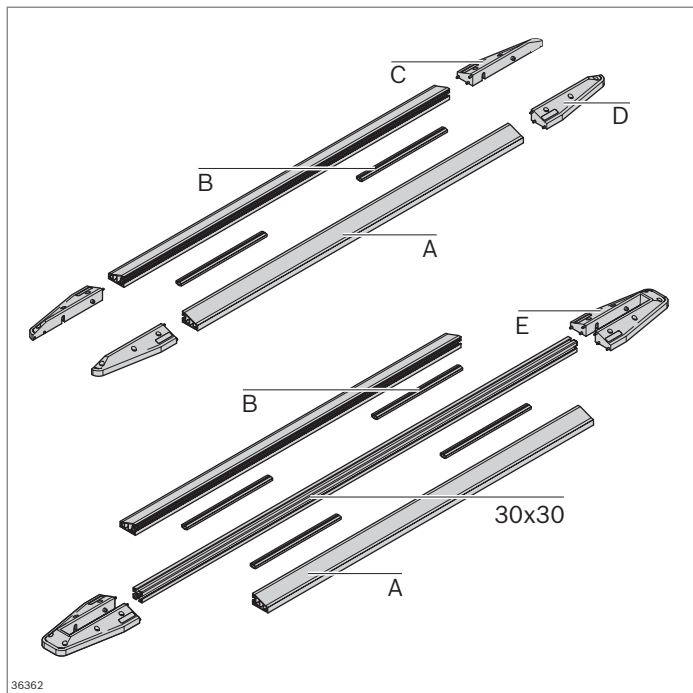


End cap, large (p. 15-3)

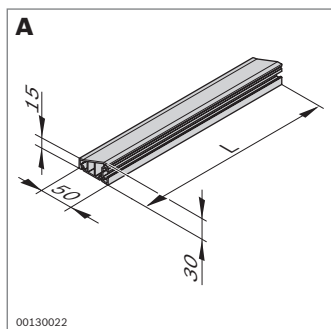


## FiFo station

- ▶ Components for constructing a FiFo station for material shuttles
- ▶ Clearly organized and highly transparent production operations through having standardized delivery routes
- ▶ Modular system lets you adapt the layout to your needs and to your available space



36362

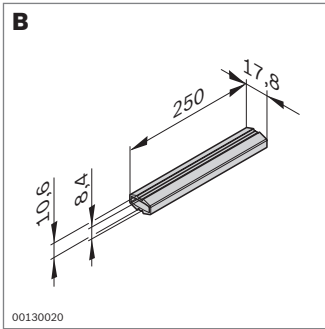


00130022

- ▶ Adhesive strips for fastening to floor
- ▶ Screw fitting to floor possible at end caps

Guide rail	L (mm)	No.	No.
A	1200	10	<b>3 842 540 012</b>
	2400	10	<b>3 842 539 894</b>

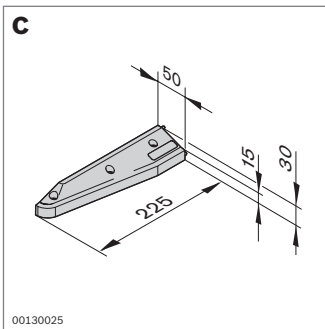
Material: PVC, yellow



- ▶ For the parallel connection of guide rails, or a guide rail with a 30x30 profile

Adapter	No.
<b>B</b>	20 <b>3 842 539 898</b>

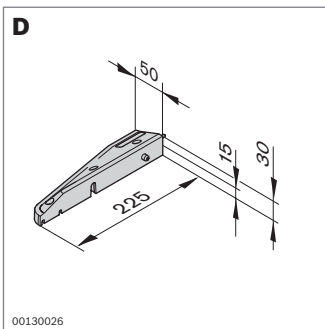
Material: PP



- ▶ For use as a jointing aid and for fastening the guide rails to the floor

Right-hand end cap, small	No.
<b>C</b>	10 <b>3 842 539 895</b>

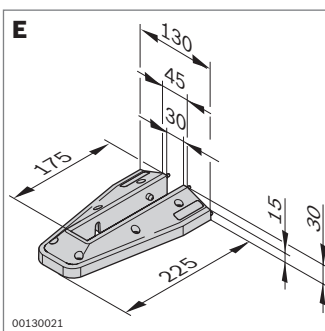
Material: PA 6; black



- ▶ For use as a jointing aid and for fastening the guide rails to the floor

Left-hand end cap, small	No.
<b>D</b>	10 <b>3 842 539 896</b>

Material: PA 6; black



- ▶ For installing a 30x30 profile between two guide rails
- ▶ The 30 mm profile can be used to construct flow rack systems, information boards, and height limits. Since the guide rails are flat-sided, setup can be done using a wide profile (40, 45, 50)

Required accessories:

- ▶ Profile 30x30 (p. 2-17)

End cap, large	No.
<b>E</b>	10 <b>3 842 539 897</b>

Material: PA 6; black



# Components for lateral guides



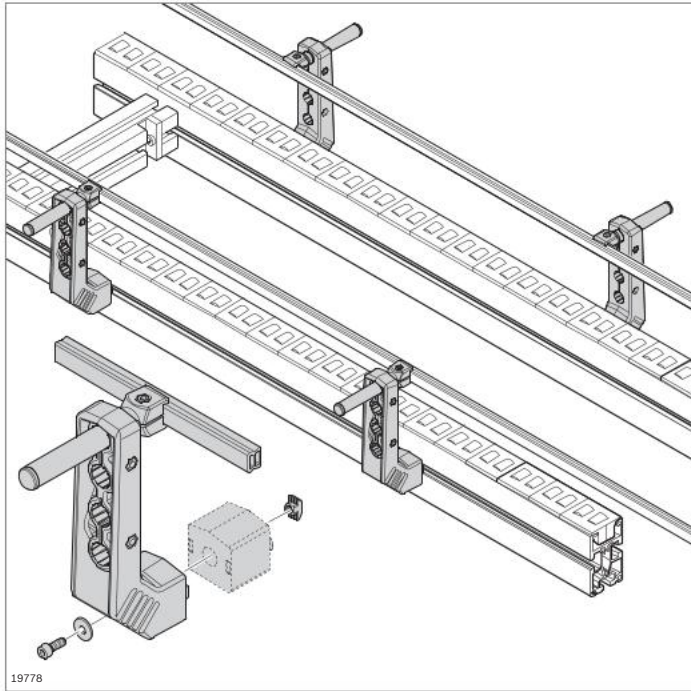
Profile rails, sliding rails  
(p. 16-3)



Holder, fixed (p. 16-6)

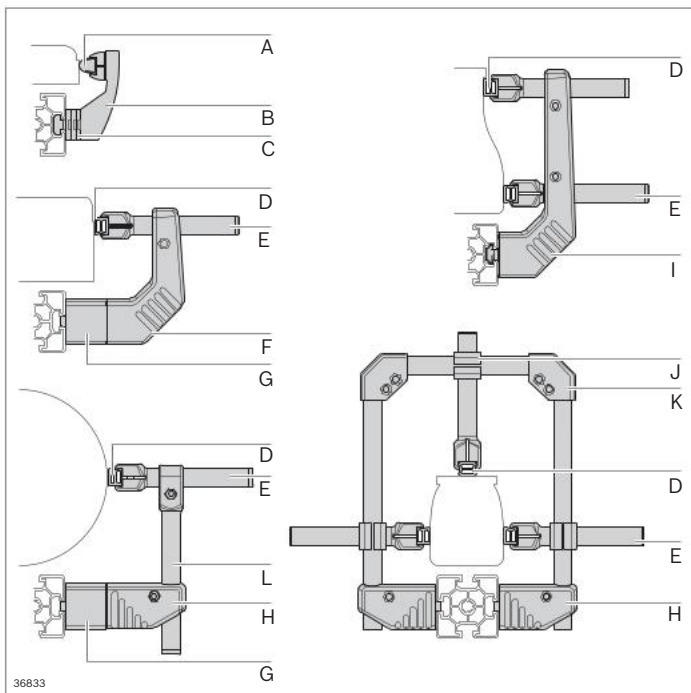


Holder, variable (p. 16-8)

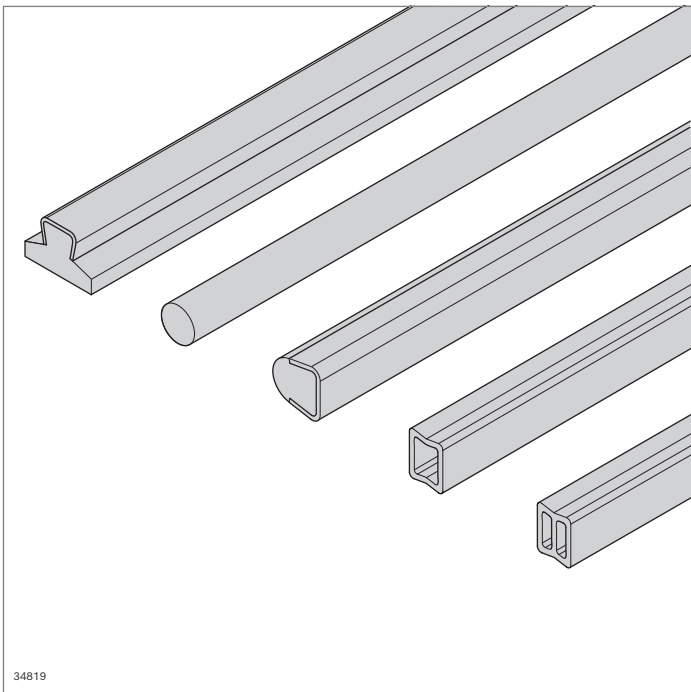


## Components for lateral guides

- ▶ Wide variety of profile rail and holder combinations for individual solutions
- ▶ Easy to clean
- ▶ Robust
- ▶ Only one tool required for adjustment
- ▶ Interface slot 10 mm



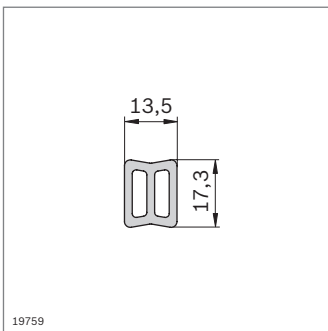
Components	Page
<b>A</b> Profile rail 17x17.5	16-4
<b>B</b> Holder, fixed	16-6
<b>C</b> Spacer plate	16-6
<b>D</b> Aluminum profile rail	16-3
<b>E</b> Clamping holder C L100	16-9
<b>F</b> Holder L134	16-10
<b>G</b> Spacer	16-11
<b>H</b> Holder L45	16-11
<b>I</b> Holder L204	16-10
<b>J</b> Cross piece	16-12
<b>K</b> Corner piece	16-12
<b>L</b> Vertical clamping holder D18 L160	16-11



34819




### Profile rails and accessories for lateral guides

- ▶ Profile rails for lateral guiding of transported material
- ▶ Suitable for fixed lateral guide holders (p. 16-6), and variable lateral guide holders (p. 16-8)
- ▶ Various materials and geometries for different applications (p. 16-3, 16-4)
- ▶ Sliding rails for safe guiding of transported material (p. 16-4)
- ▶ Profile connector for profile rail extension (p. 16-5)

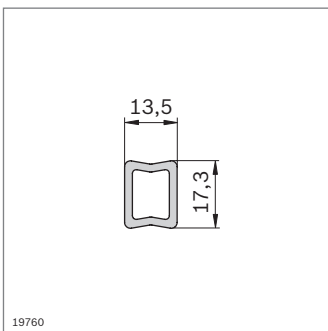


19759

- ▶ Aluminum profile rail for robust lateral guides

Aluminum profile rail		L (mm)	No.
1 pc		200 ... 3000	<b>3 842 993 887 / L</b>
 20 pcs		3000	<b>3 842 538 829</b>

Material: Aluminum; natural, anodized  
 Accessories: Narrow sliding rail; high sliding rail; outer profile connector; inner profile connector; cover cap; clamping holder C L100; holder; clamping head

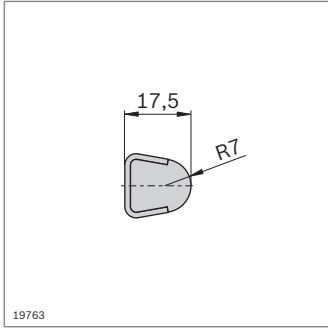


19760

- ▶ HDPE profile rail for light applications
- ▶ Bendable

HDPE profile rail		L (mm)	No.
1 pc		3000	<b>3 842 538 388</b>

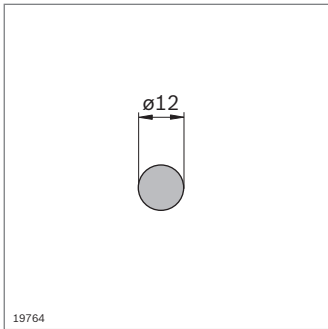
Material: HDPE; gray  
 Accessories: Narrow sliding rail; high sliding rail; outer profile connector; inner profile connector; cover cap; clamping holder C L100; holder; clamping head



- ▶ Profile rail 17x17.5 in robust stainless steel version with PE guide for gentle product handling

Profile rail 17x17.5		L (mm)	No.
1 pc		200 ... 3000	<b>3 842 994 863 / L</b>
20 pcs		3000	<b>3 842 529 850</b>

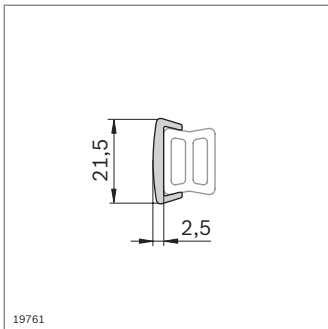
Material: Steel, stainless / PE; natural  
 Accessories: Outer profile connector; clamping holder C L100; holder; clamping head; clamping head



- ▶ Profile rail D12 in robust stainless steel version

Profile rail D12		L (mm)	No.
1 pc		200 ... 3000	<b>3 842 993 306 / L</b>
6 pcs		3000	<b>3 842 533 841</b>

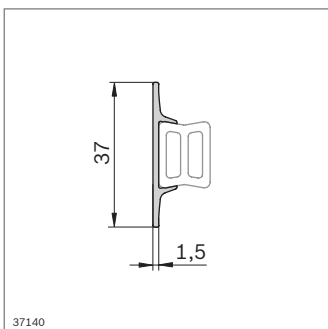
Material: Steel; stainless  
 Accessories: Clamping holder D12 L100



- ▶ Clip-on sliding rail for aluminum or HDPE profile rail
- ▶ For gentle product transport and minimum wear to HDPE profile rail

Sliding rail, narrow		L (mm)	ESD No.
1 pc		3000	<b>3 842 538 209</b>
1 pc		3000	<b>3 842 539 340</b>

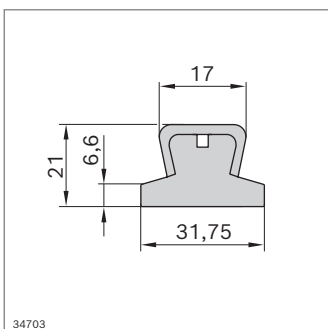
Material: HDPE; gray  
 ESD: PE-UHMW, conductive, black



- ▶ Clip-on sliding rail for aluminum or HDPE profile rail
- ▶ Wide guiding surface
- ▶ For gentle product transport and minimum wear to HDPE profile rail

Sliding rail, high		L (mm)	No.
1 pc		3000	<b>3 842 538 389</b>

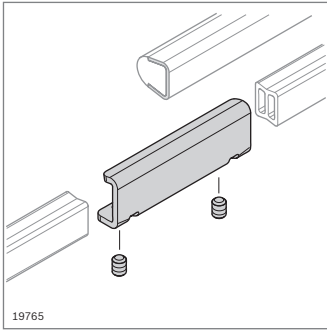
Material: HDPE; gray



- ▶ T-profile rail for simple section separation or lateral guiding of transported material
- ▶ In robust version made of non-rusting steel with PE guide for gentle product handling
- ▶ Holder distance: Approx. 750 mm, less with accumulation pressure

Profile rail T21x32		L (mm)	No.
1 pc		3000	<b>3 842 571 233</b>

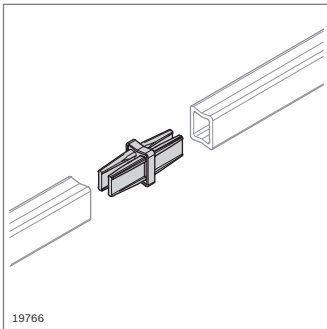
Material: HDPE; gray



- ▶ Outer profile connector for aluminum profile rails, HDPE profile rail, 17x17.5 profile rail

Outer profile connector	ESD	No.
	10	3 842 539 613

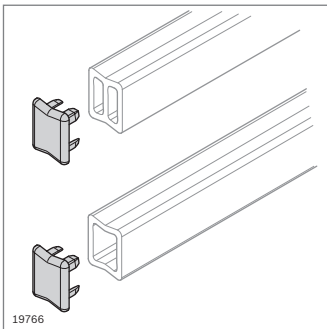
Material: Steel; stainless  
 Scope of delivery: Incl. 2 x headless setscrew



- ▶ Inner profile connector for profile rail in aluminum, HDPE

Internal profile connector	ESD	No.
	10	3 842 539 345

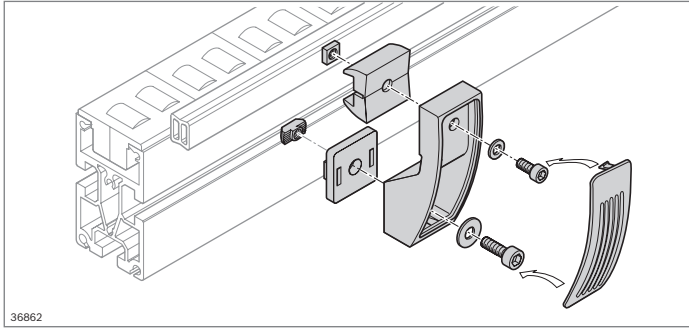
Material: PA; black, conductive



- ▶ Cover cap for profile rail in aluminum, HDPE

Cover cap	ESD	No.
	10	3 842 538 208

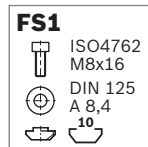
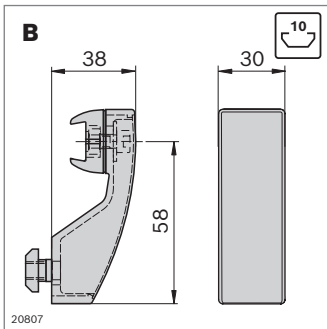
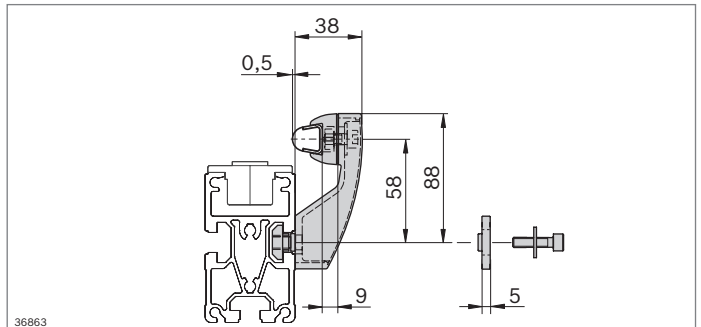
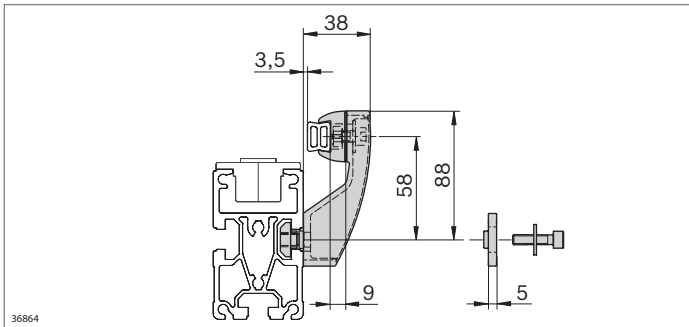
Material: PA; black, conductive



## Holder for lateral guide, fixed



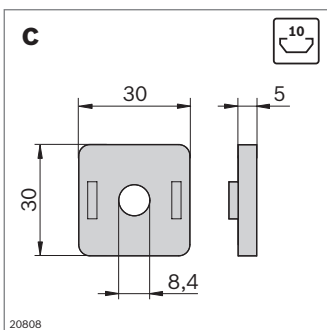
- ▶ Holders for lateral guides with fixed installation height and fixed guide width
- ▶ Easy to clean
- ▶ Robust



- ▶ Holder, fixed, for profile rail in aluminum, HDPE and 17x17.5
- ▶ For fixed guide width
- ▶ Spacer plate for guide width enlargement

Holder, fixed	No.	FS
Set	3 842 527 851	FS1

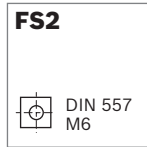
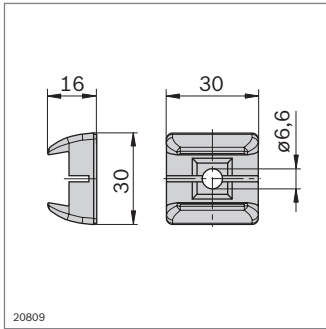
Material: PA; black  
Fastening material: Steel; zinc-plated  
Scope of delivery: Incl. clamping head, fastening material (FS)



- ▶ Spacer plate for holders, fixed, to enlarge the guide width

Spacer plate	No.
	10 3 842 527 738

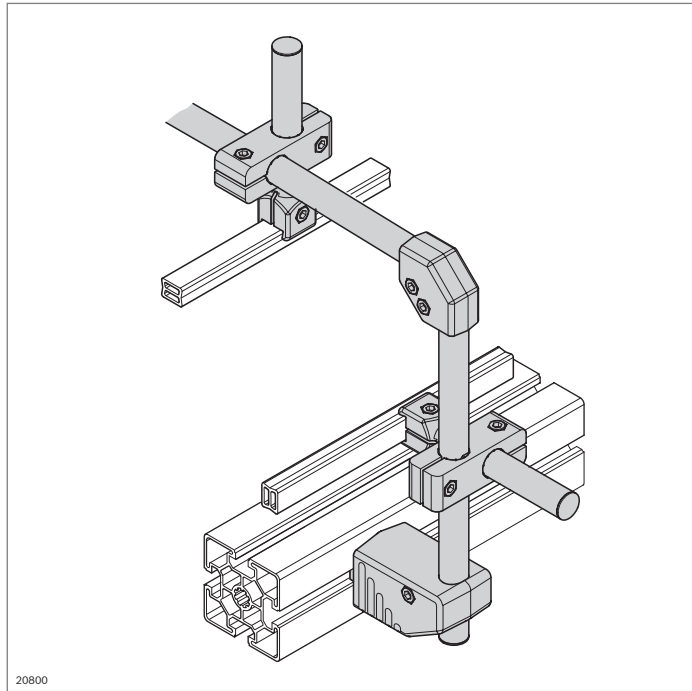
Material: PA; black



- Clamping head for on-site construction of supports for protruding transported material

Clamping head	No.	FS
Set	10 <b>3 842 536 295</b>	FS2

Material: PA; black  
Fastening material: Steel; zinc-plated  
Scope of delivery: Incl. fastening material (FS)

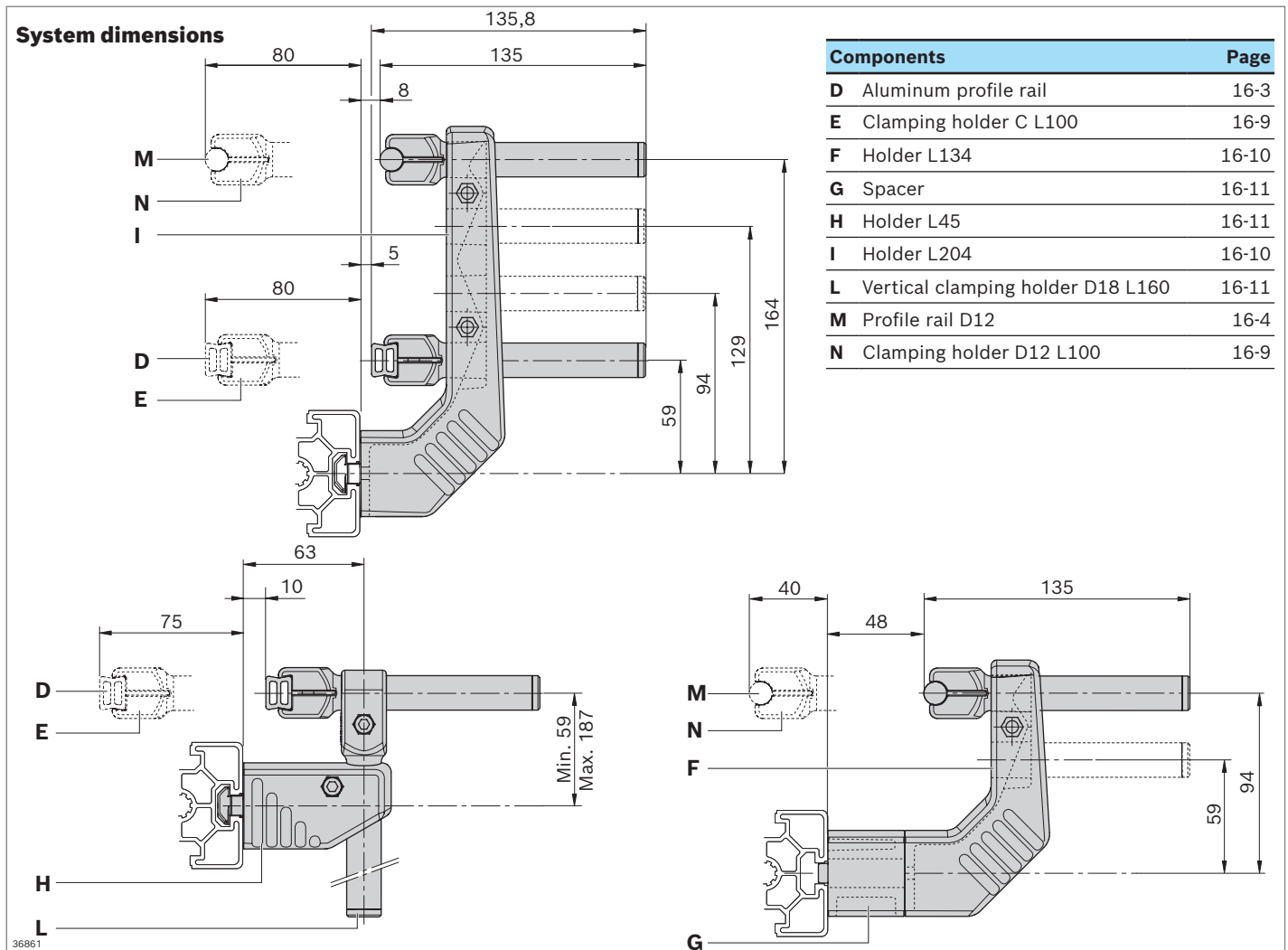


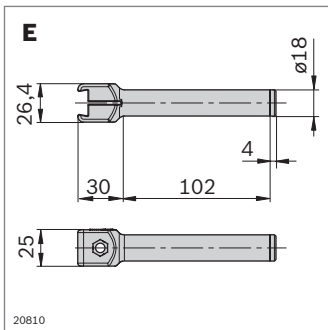
### Holder for lateral guide, variable



- ▶ Holder and clamping holder allow for the variable adjustment of the guide height and width
- ▶ Easy to clean

**Notice:** For stability in the rotational direction, at least 2 holders must be connected with a continuous profile rail.



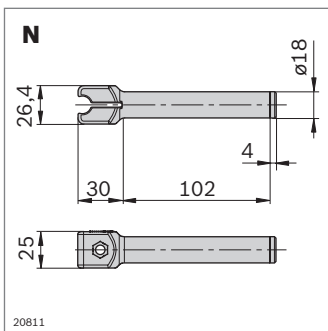


- ▶ Clamping holder C L100 for accommodating aluminum, HDPE, or 17x17.5 profile rails
- ▶ Scaling in mm and inch for simple alignment

Clamping holder C L100	No.
	10 <b>3 842 539 499</b>

Material: Clamping holder: PA; black  
Nut, screw: Steel; stainless

Accessories: Plug

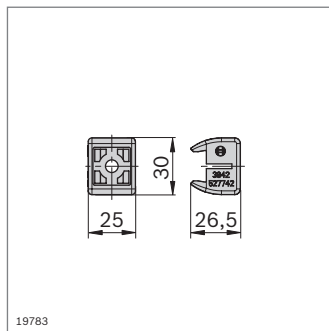
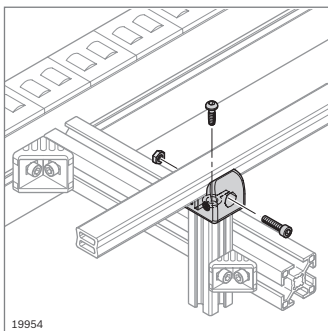


- ▶ Clamping holder D12 for accommodating D12 profile rails
- ▶ Scaling in mm and inch for simple alignment

Clamping holder D12 L100	No.
	10 <b>3 842 539 498</b>

Material: Clamping holder: PA; black  
Nut, screw: Steel; stainless

Accessories: Plug

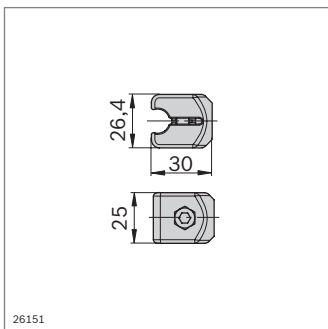
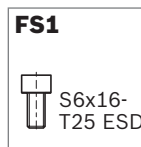


- ▶ Clamping head for accommodating aluminum, HDPE, or stainless steel profile rails with PE guide
- ▶ Direct mounting on profiles with 10 mm slot

Clamping head	No.	FS
Set	10 <b>3 842 528 009</b>	FS1

Material: Clamping holder: PA; black  
Fastening material: Steel; zinc-plated

Scope of delivery: Incl. fastening material (FS)

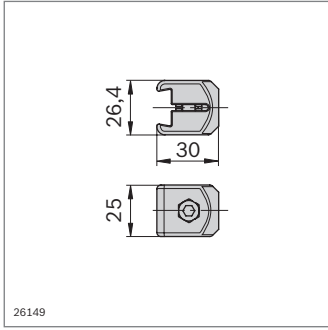


- ▶ Clamping holder D12 for accommodating D12 profile rails
- ▶ In conjunction with tube 18 for constructing longer clamping holders

Clamping holder D12	No.
	10 <b>3 842 547 227</b>

Material: Clamping holder: PA; black  
Nut, screw: Steel; stainless

Accessories: Plug, tube D18

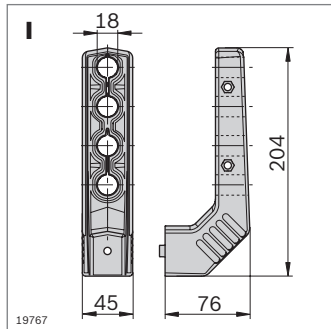


26149

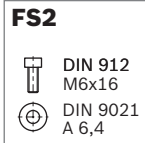
- ▶ Clamping holder C for accommodating aluminum, HDPE, or 17x17.5 profile rails
- ▶ In conjunction with tube D18 for constructing longer clamping holders

Clamping holder C	No.
	10 3 842 547 228

Material: Clamping holder: PA; black  
Nut, screw: Steel; stainless  
Accessories: Plug, tube D18



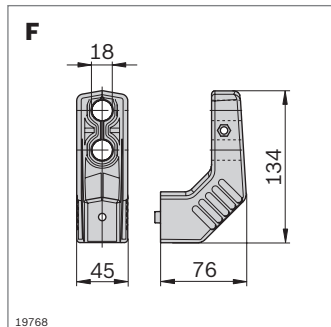
19767



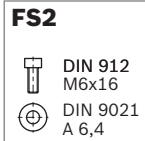
- ▶ Holder for fastening clamping holders C L100 or D12 L100
- ▶ Various installation heights possible for clamping holders
- ▶ Variable guide widths possible
- ▶ Additionally enlarge the guide width with the spacer
- ▶ Accessories, optional: Clamping lever M6x40 (p. 4-15)

Holder L204	No.	FS
Set	3 842 539 494	FS2

Material: PA; black  
Fastening material: Steel; stainless  
Scope of delivery: Incl. fastening material (FS)  
Accessories: T-nut M6, 10 mm slot (p. 3-4) Spacer



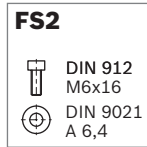
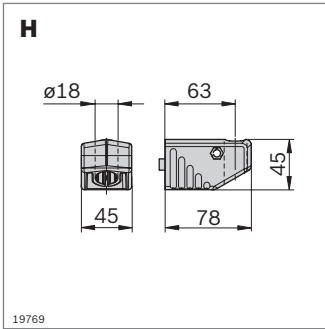
19768



- ▶ Holder for fastening clamping holders C L100 or D12 L100
- ▶ Various installation heights possible for clamping holders
- ▶ Variable guide widths possible
- ▶ Additionally enlarge the guide width with the spacer
- ▶ Accessories, optional: Clamping lever M6x40 (p. 4-15)

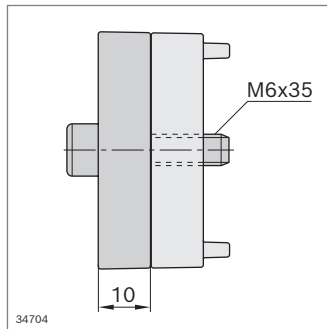
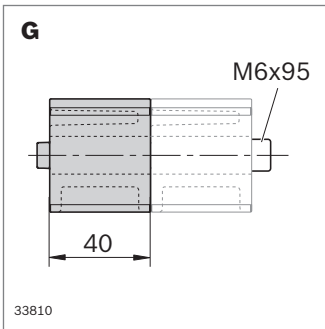
Holder L134	No.	FS
Set	3 842 539 495	FS2

Material: PA; black  
Fastening material: Steel; stainless  
Scope of delivery: Incl. fastening material (FS)  
Accessories: T-nut M6, 10 mm slot (p. 3-4) Spacer



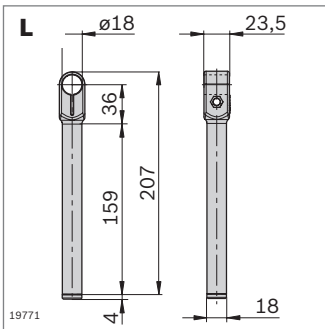
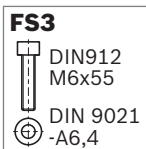
- ▶ Holder L45 for fastening vertical clamping holders or tube D18
- ▶ For infinitely height-adjustable lateral guides
- ▶ Enlarge the guide width with the spacer
- ▶ Accessories, optional: Clamping lever M6x40 (p. 4-15)

Holder L45	No.	FS
<b>Set</b>	10 <b>3 842 539 496</b>	FS2
Material:	PA; black	
	Fastening material: Steel; stainless	
Scope of delivery:	Incl. fastening material (FS)	
Accessories:	T-nut M6, 10 mm slot (p. 3-4) Spacer	



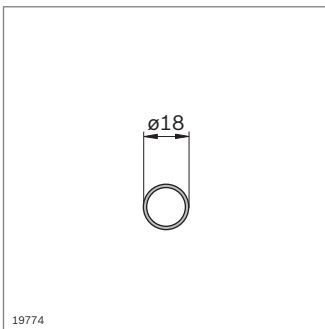
- ▶ Spacer for guide width enlargement
- ▶ 2 versions can be combined as desired, pluggable
- ▶ Centering lug for easy assembly
- ▶ Stable connection thanks to stainless steel core

Spacer	No.	FS
<b>Set 40 mm</b>	10 <b>3 842 539 497</b>	FS3
<b>Set 10 mm</b>	10 <b>3 842 567 773</b>	FS3
Material:	PA; black	
	Fastening material: Steel; stainless	
Scope of delivery:	Incl. Fastening material (except for T-nuts)	
Accessories:	T-nut for AL or STS	



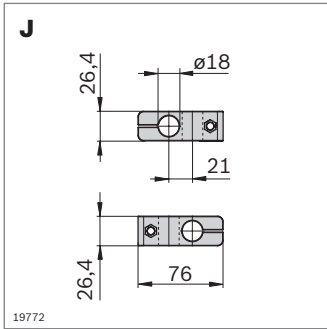
- ▶ Vertical clamping holder for constructing height-adjustable guides
- ▶ Accessories, optional: Clamping lever M6x40 (p. 4-15)

Vertical clamping holder D18 L160	No.
	10 <b>3 842 539 500</b>
Material:	PA; black
	Nut, screw: Steel; stainless
Accessories:	Plug



- ▶ Tube D18 for constructing height-adjustable vertical holders or cross members for upper guides

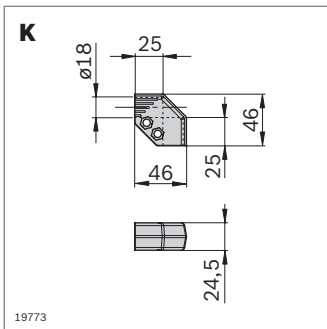
Tube D18	L (mm)	No.
	3000	<b>3 842 539 339</b>
Material:	Stainless steel	
Accessories:	Plug	



- ▶ Corner connecto for the intersecting, right-angled joining of tubes D18 and clamping holders C L100 or D12 L100
- ▶ Accessories, optional: Clamping lever M6x40 (p. 4-15)

Cross piece	No.
	10 <b>3 842 539 501</b>

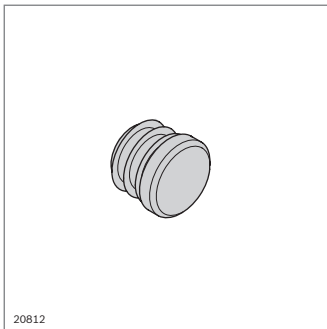
Material: Cross piece: PA; black  
Nut, screw: Steel; stainless



- ▶ Corner piece for the end face, right-angled joining of tubes D18 and clamping holders C L100 or D12 L100

Corner piece	No.
	10 <b>3 842 539 505</b>

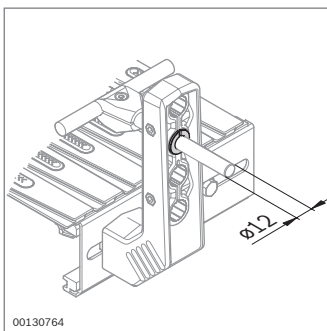
Material: Corner piece: PA; black  
Nut, screw: Steel; stainless



- ▶ Plug for sealing the clamping holder C L100, clamping holder D12 L100, vertical clamping holder D18 L160 or tube D18

Plug	No.
	10 <b>3 842 539 826</b>

Material: PE; black



- ▶ Reducing adapter for mounting round profiles  $\varnothing 12$  in attachments D18

Reducing adapter	No.
	20 <b>3 842 539 344</b>

Material: PA; black

# Components for ESD applications



Set of grounding components (p. 17-2)



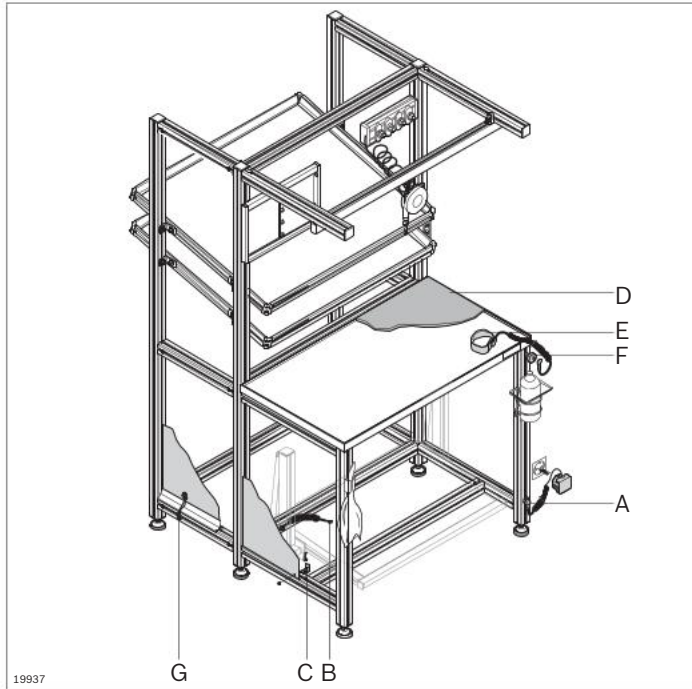
Grounding cable (p. 17-2)



Potentialfix (p. 17-3)



Wrist band, connection piece (p. 17-3)



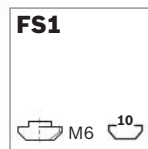
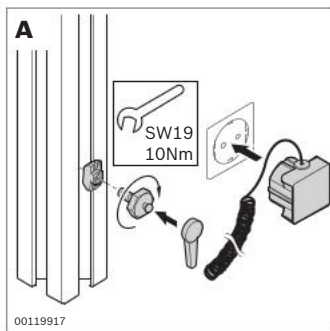
## Components for ESD applications



### ESD – Electro Static Discharge

Components which, due to their electrical properties and inner structure, are damaged or destroyed by static discharge also cause economic losses running into millions of euros each year.

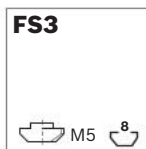
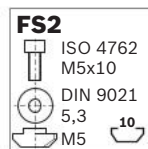
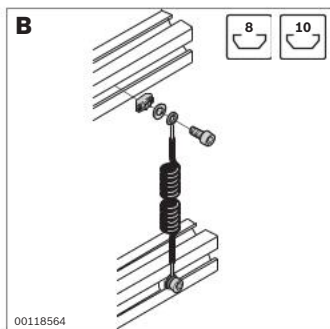
You can use Rexroth components for ESD applications to protect your products from this type of damage. Look for the ESD mark when selecting products (⚡).



- ▶ Set of grounding components for defined grounding of ESD workstations
- ▶ Conduction resistance  $R = 1 \times 10^6 \Omega$

Accessories:

Damping ring or damping plate for insulation from conductive floors makes defined conduction possible (p. 6-4, 6-6)



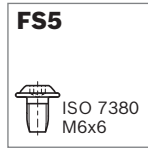
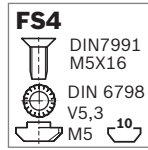
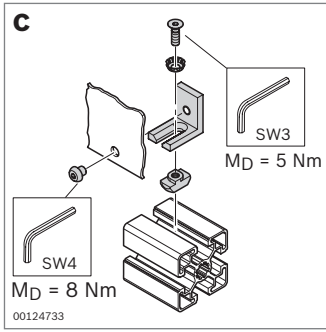
- ▶ Grounding cable to create defined conductive paths between strut profiles in order to protect ESD-sensitive components

Set of grounding components	ESD No.	FS
A	⚡ 3 842 522 087	FS1

Material: Fastening material: Steel; zinc-plated  
Scope of delivery: Incl. fastening material (FS)

Grounding cable	ESD No.	FS
B	⚡ 3 842 519 465	2xFS2, FS3

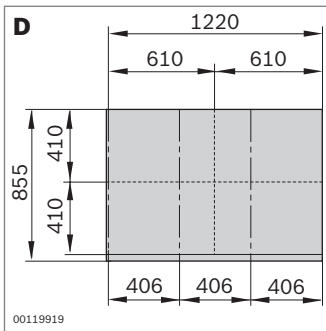
Material: Fastening material: Steel; zinc-plated  
Scope of delivery: Incl. fastening material (FS)



- ▶ Potentialfix for defined grounding of panel elements such as side panels

Potentialfix	ESD No.	FS
<b>C</b>	<b>3 842 536 320</b>	FS4, FS5

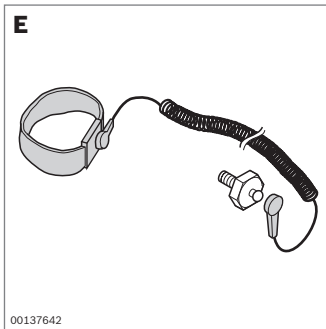
Material: Bracket Aluminum  
Fastening material: Steel; zinc-plated  
Scope of delivery: Incl. fastening material (FS)



- ▶ ESD mat insert for protecting ESD-sensitive components
- ▶ To create a safe, conductive connection, e.g. to ESD material shelves, we recommend using adhesive copper tape
- ▶ Conduction resistance  $R = 10^4 \dots 10^9 \Omega$

ESD mat insert	ESD No.
<b>D</b> 1220 mm x 855 mm	<b>3 842 522 012</b>

Material: Rubber (thickness: 2 mm)



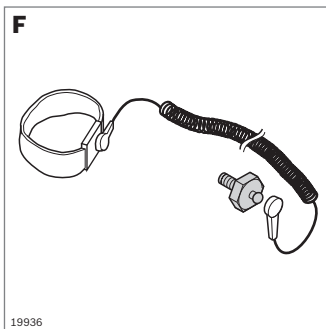
- ▶ Wrist band for defined grounding of people and protection of ESD-sensitive components

Required accessories:

- ▶ Connection piece
- ▶ T-nut M6, or swivel-in sliding block, with spring, M6

Wrist band	ESD No.
<b>E</b>	<b>3 842 516 908</b>

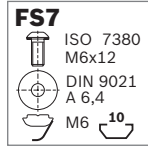
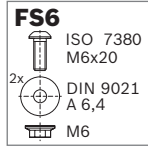
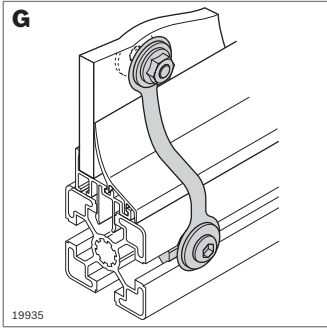
Material: Textile with woven-in conductive plastic; navy blue



- ▶ Connection piece for connecting the wrist band to the profile construction

Connection piece	ESD	No.
<b>F</b>	10	<b>3 842 516 905</b>

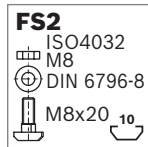
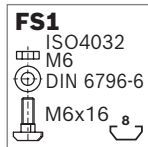
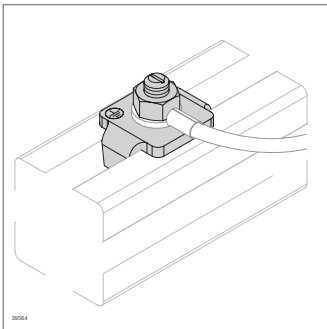
Material: Steel; zinc-plated



- Potential equalizer for creating electrostatic conduction between panel elements and strut profiles

Potential equalizer	ESD	No.	FS
G		10	<b>3 842 536 148</b> FS6, FS7

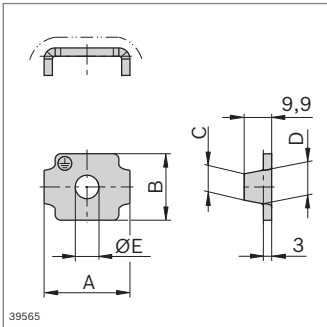
Material: Strip steel, stainless  
Fastening material: Steel; zinc-plated  
Scope of delivery: Incl. fastening material (FS)



- PE conductor connection set for profile structures for the secure connection of a PE connection in Rexroth profile slots

PE conductor connection set							
Slot	A (mm)	B (mm)	C (mm)	D (mm)	E (mm)	No.	FS
8	28	21	7.5	9.3	6.5	<b>3 842 564 106</b>	FS1
10	31	24	9.5	12	8.5	<b>3 842 564 107</b>	FS2

Scope of delivery: Set incl. fastening material



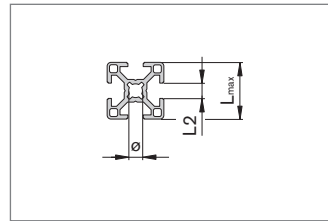
# Technical data



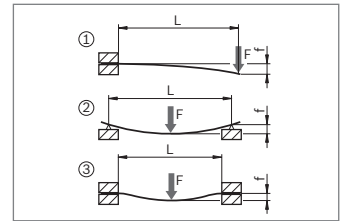
Standard profile finishing  
(Quick & Easy) (p. 18-2)



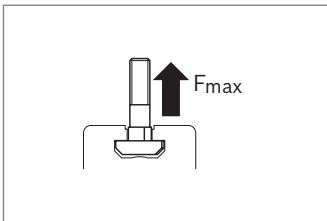
Individual profile finishing  
(Quick & Easy) (p. 18-7)



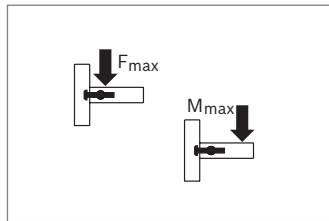
Technical data for strut  
profiles (p. 18-12)



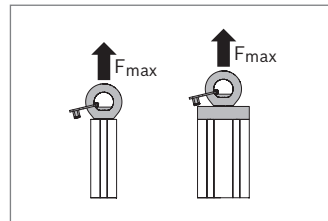
Profile deflection (p. 18-14)



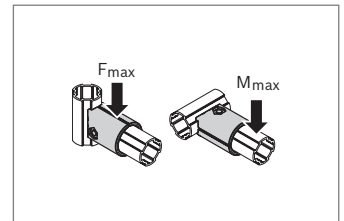
Profile slot load-bearing  
capacity (p. 18-15)



Load capacity of profile  
connection (p. 18-16)



Lifting eye bolt load  
capacity data (p. 18-22)



EcoShape load capacity  
(p. 18-23)

# Standard profile finishing (Quick & Easy)

Standard profile finishing is used for Rexroth connection technology and attachment of accessories:

- ▶ Central bolt (corner connection)
- ▶ Quick connector
- ▶ Bolt connector
- ▶ Cross connector
- ▶ Feet and wheels

It offers decisive advantages:

- ▶ One general material number for all finishing processes at profile cross-sections
- ▶ Available for all profiles
- ▶ Any combinations possible
- ▶ Drilling of blind holes possible

This opens up completely new possibilities!

The order key has a simple structure:

There are fixed specifications for the parameters for exact finishing of each profile. See table.





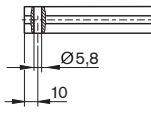
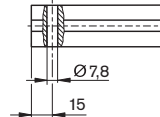
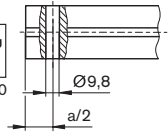

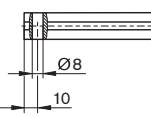
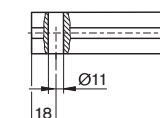
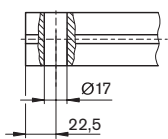

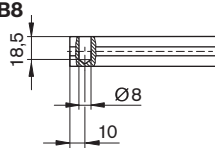
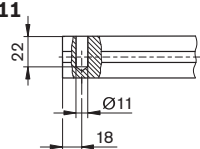
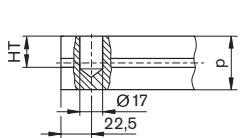

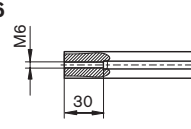
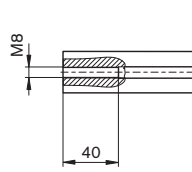
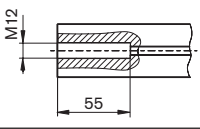
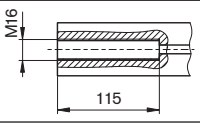

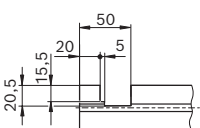
For information on slot designations and available standard profile finishing, please refer to chapter 2.

### Order key for through-holes, blind holes, standard milling:

**Material number / length / slot designation = finishing at profile start / finishing at profile end; ...**

### Order key for threads:

**Material number / length / Z = Mx at profile start / Mx at profile end**

Standard profile finishing													
<b>Through-hole</b> for corner connections with central bolt 	<b>D5.8</b> 	<b>D7.8</b> 	<b>D9.8</b>  <p><math>a = 40/45/50/60</math></p>										
<b>Through-hole</b> for bolt connectors and quick connectors 	<b>D8</b> 	<b>D11</b> 	<b>D17</b> 										
<b>Blind hole</b> For longitudinal end connectors and quick connectors in closed profiles 	<b>DB8</b> 	<b>DB11</b> 	<b>DB17</b>  <table border="1" style="margin-top: 10px;"> <tr> <td><b>p</b></td> <td>40</td> <td>45</td> <td>50</td> <td>60</td> </tr> <tr> <td><b>HT</b></td> <td>31</td> <td>34</td> <td>36</td> <td>41</td> </tr> </table>	<b>p</b>	40	45	50	60	<b>HT</b>	31	34	36	41
<b>p</b>	40	45	50	60									
<b>HT</b>	31	34	36	41									
<b>Threads</b> in all core holes for accessories 	<b>M6</b> 	<b>M8</b> 	<b>M12</b>   <b>M16</b> 										
<b>Standard milling</b> for cross connectors 			<b>F1</b> 										



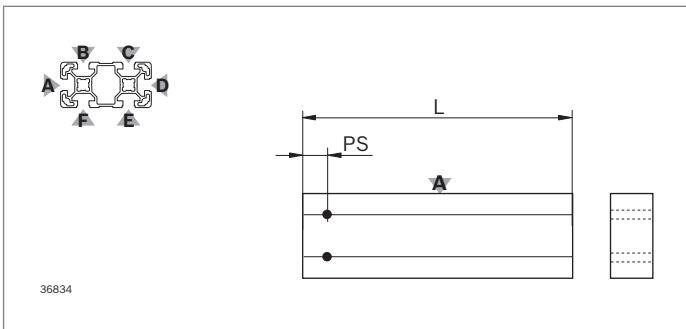
## Through-hole Dx

Use:

- ▶ **D5.8; D7.8; D9.8** for corner connections with central bolt
- ▶ **D8; D11; D17** for bolt connectors and quick connectors

Fixed specifications:

Distance from profile end (PS)



**Example:**

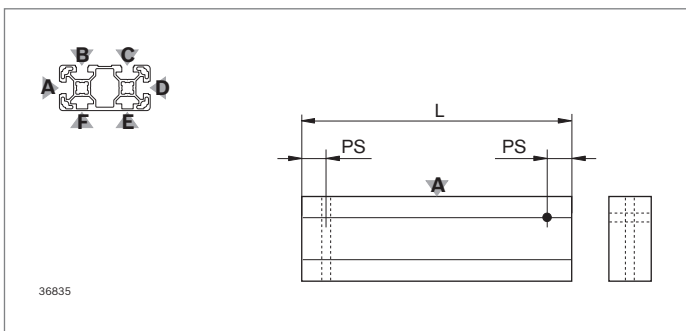
**3 842 993 728 / 255 / B=D17/-; C=D17/-**

Profile 40x80L / L = 255 mm /

Slot B: Through-hole D17 at profile start / without finishing at profile end;

Slot C: Through-hole D17 at profile start / without finishing at profile end

Fixed: PS = 22.5 mm (p. 18-2)



**Example:**

**3 842 993 729 / 255 / B=-/D17; D=D17/-**

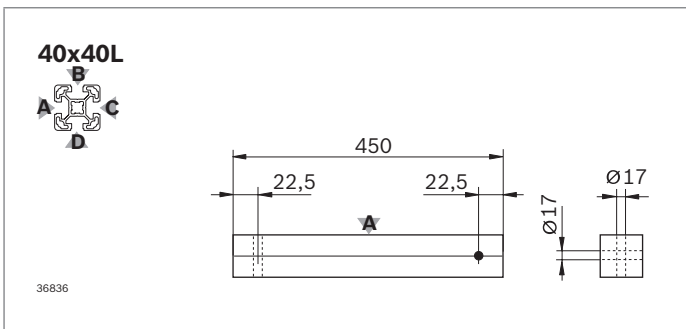
Profile 40x80L 4N / L = 255 mm /

Slot B: Without finishing at profile start / through-hole D17 at profile end;

Slot D: Through-hole D17 at profile start / without finishing at profile end

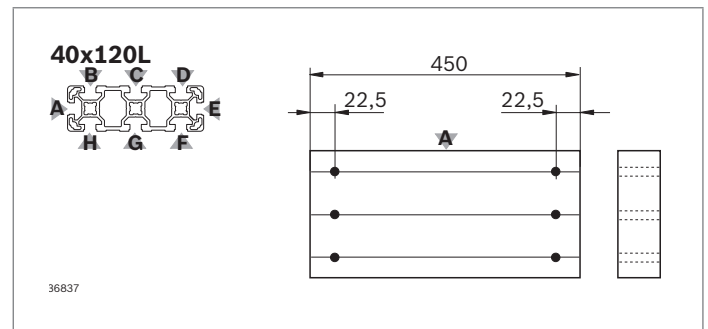
Fixed: PS = 22.5 mm (p. 18-2)

### Other examples



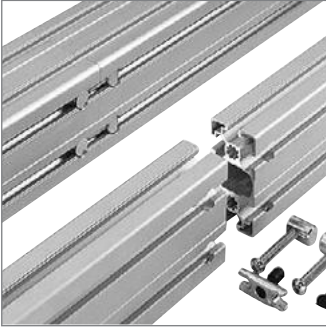
**Example:**

**3 842 993 724 / 450 / A=D17/-; B=-/D17**



**Example:**

**3 842 993 716 / 450 / B=D17/D17; C=D17/D17; D=D17/D17**



## Blind hole DBx

Use:

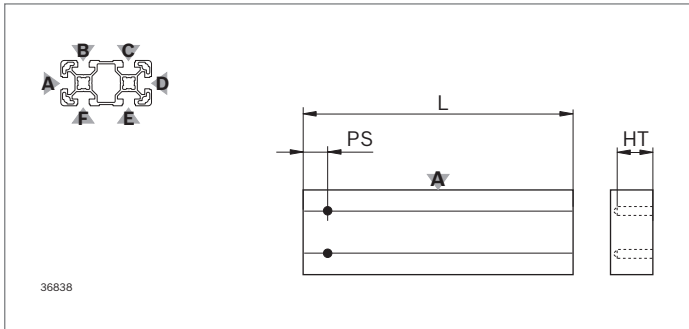
**DB8; DB11; DB17** for quick connectors in closed profiles and longitudinal end connectors

Advantage:

In case of closed slots, the profile surface is not broken.

Fixed specifications:

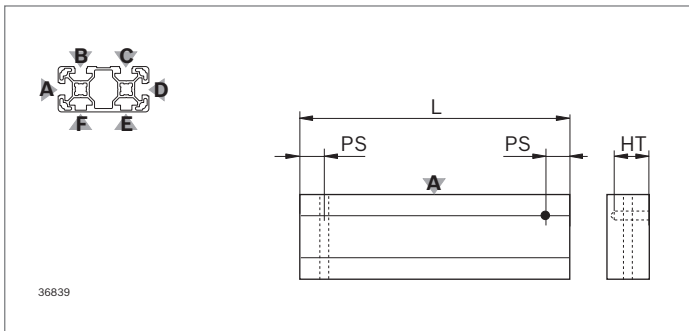
- ▶ Distance from profile end (PS)
- ▶ Depth of blind hole (HT)



**Example:**

**3 842 993 728 / 255 / B=DB17/-; C=DB17/-**

Profile 40x80L / L = 255 mm /  
 Slot B: Blind hole DB17 at profile start /  
 without finishing at profile end;  
 Slot C: Blind hole DB17 at profile start /  
 without finishing at profile end  
 Fixed: PS = 22.5 mm, HT = 34 mm (p. 18-2)



**Example:**

**3 842 993 729 / 255 / B=-/DB17; D=D17/-**

Profile 40x80L 4N / L = 255 mm /  
 Slot B: Without finishing at profile start /  
 blind hole DB17 at profile end;  
 Slot D: Through-hole D17 at profile start /  
 without finishing at profile end  
 Fixed: PS = 22.5 mm, HT = 34 mm (p. 18-2)



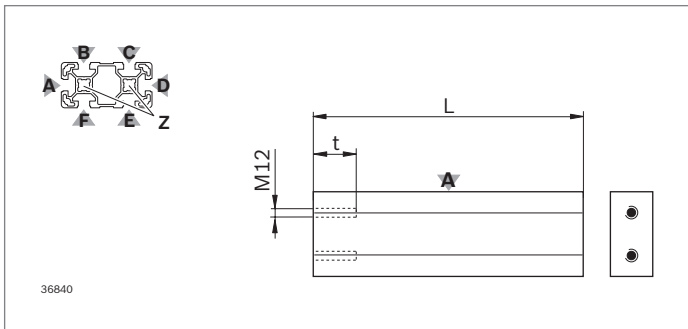
## Thread Mx

Use:

**M6; M8; M12; M16** in all core holes of the profile, e.g. for screw fitting of feet and wheels

Fixed specifications:

Thread depth



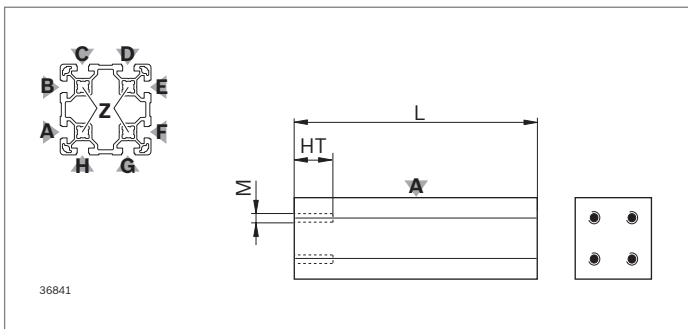
**Example:**

**3 842 993 728 / 255 / Z=M12/-**

Profile 40x80L / L = 255 mm /

Thread M12 in all core holes at profile start /  
no finishing at profile end

Fixed: Thread depth HT = 55 mm (p. 18-2)



**Example:**

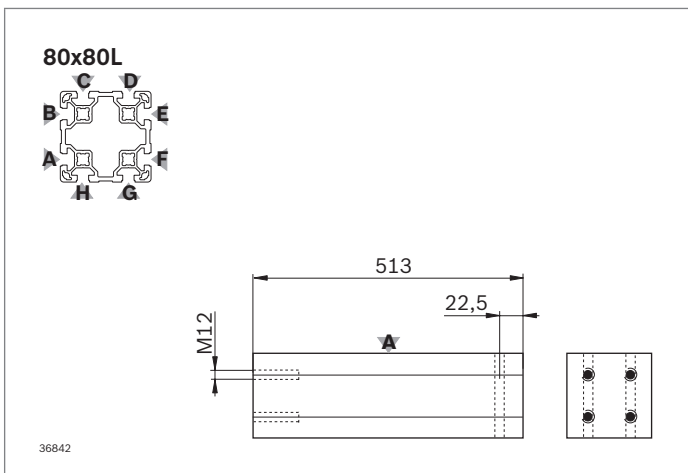
**3 842 993 674 / 255 / Z=M12/-**

Profile 80x80L / L = 255 mm /

Thread M12 in all core holes at profile start /  
no finishing at profile end

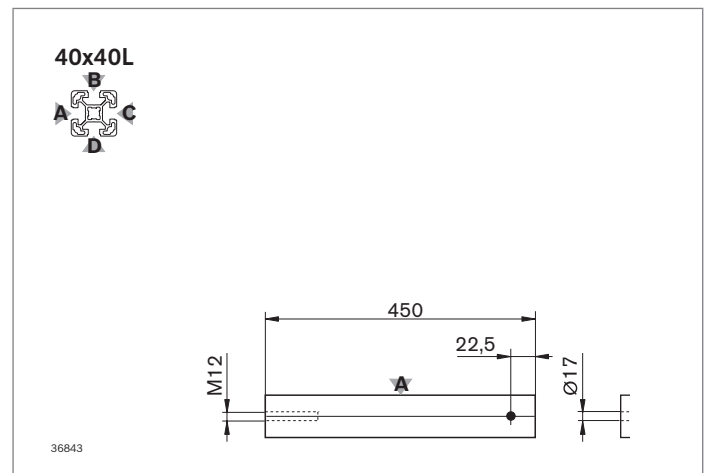
Fixed: Thread depth HT = 55 mm (p. 18-2)

## Other examples



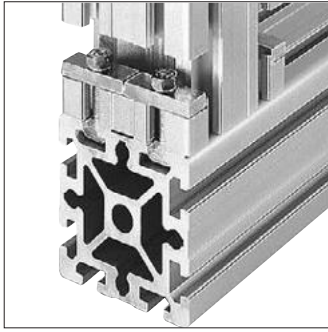
**Example:**

**3 842 993 674 / 513 / Z=M12/-; A=-/D17; B=-/D17**



**Example:**

**3 842 993 724 / 450 / Z=M12/-; B=-/D17**



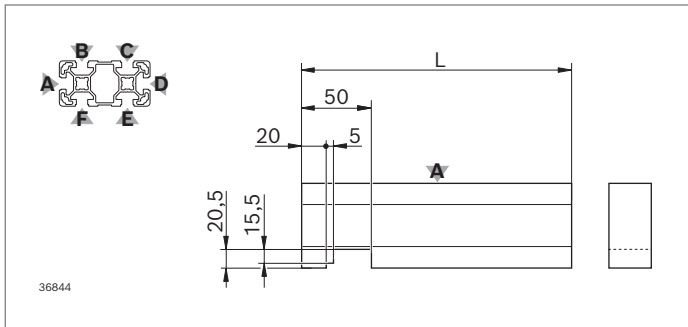
## Standard milling F1

Use:

F1 for cross connectors

Fixed specifications:

- ▶ Start point of milling (PS)
- ▶ End point of milling (PE)
- ▶ Depth of milling (HT)

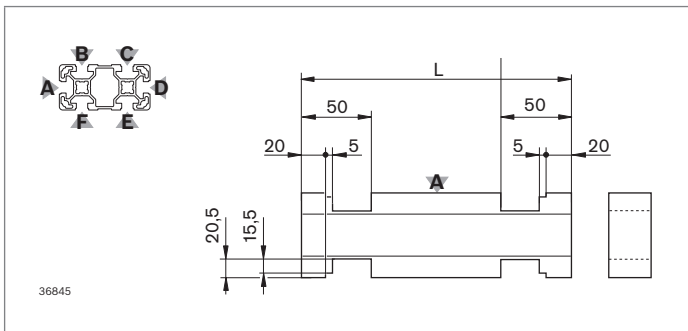


**Example:**

**3 842 993 728 / 383 / D=F1/-**

Profile 40x80L / L = 383 mm /

Slot D: Cross milling at profile start / without finishing at profile end



**Example:**

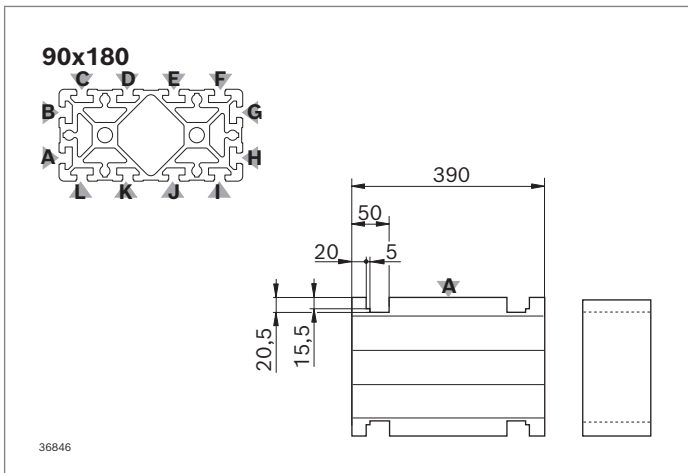
**3 842 993 729 / 383 / A=F1/F1; D=F1/F1**

Profile 40x80L 4N / L = 383 mm /

Slot A: Cross milling at profile start / cross milling at profile end

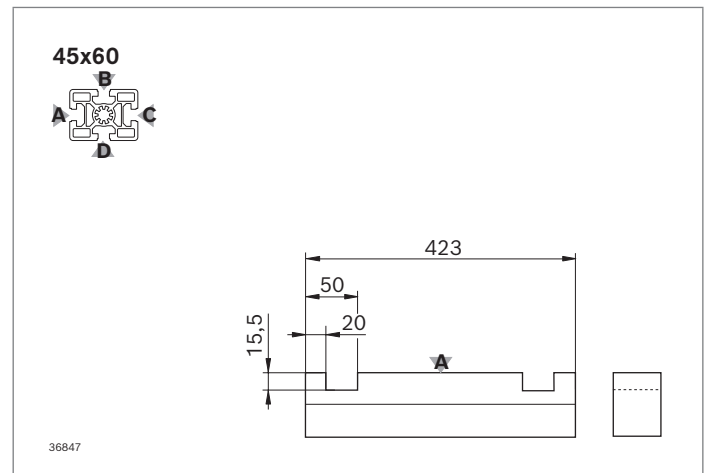
Slot D: Cross milling at profile start / cross milling at profile end

## Other examples



**Example:**

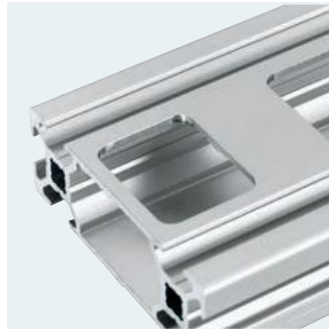
**3 842 993 676 / 390 / A=F1/F1; G=F1/F1**



**Example:**

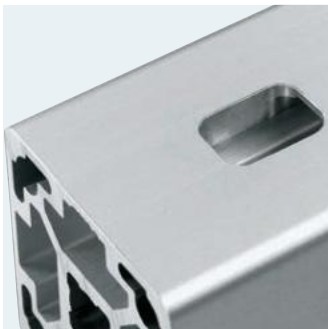
**3 842 993 743 / 423 / A=F1/F1**

## Individual profile finishing (Quick & Easy)



With individual profile finishing, Quick & Easy offers the following advantages:

- ▶ Precise finishing at virtually every point along the profile
- ▶ Maximum variance of available finishing procedures
- ▶ Available for numerous profiles
- ▶ Finishing possible in almost any combination including sequential finishing
- ▶ Variable finishing options from one source

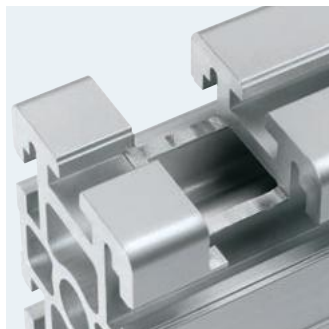


The following finishing options are available:

- ▶ Through-hole
- ▶ Blind holes
- ▶ Stepped drilling
- ▶ Cross milling (transversely to the longitudinal axis)
- ▶ Lengthwise milling (in longitudinal axis)
- ▶ Miter cuts

Notice:

Depending on the selected finishing options, minimum and maximum lengths must be observed when ordering.

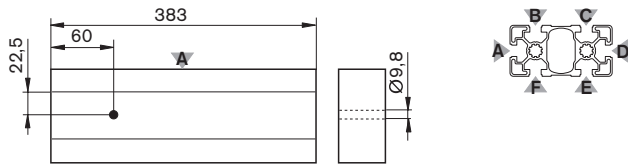




**Order examples for profile 45x90, L = 383 mm**

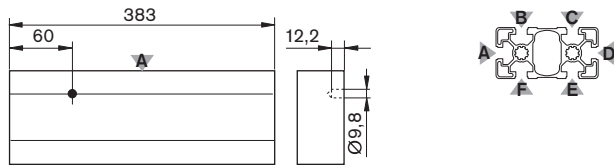
**DI Through-hole next to the slot**

3 842 993 661 / 383 / [B=DI; PS=60; OS=22.5; DM=9.8]



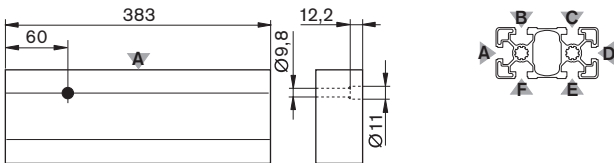
**Blind hole**

3 842 993 661 / 383 / [B=DI; PS=60; DM=9.8; HT=12.2]



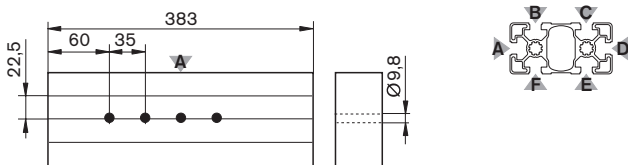
**Stepped drilling**

3 842 993 661 / 383 / [B=DI; PS=60; DM=11.0; HT=12.2];  
[B=DI; PS=60; DM=9.8]



**DIS Sequence of through-holes**

3 842 993 661 / 383 / [B=DIS; PS=60; OS=22.5; DM=9.8; SN=4; SD=35]



**Drill hole**

**Drill hole DI**

- ▶ Through-hole with diameter (**DM**) at any points of the profile (**PS, OS**). Please note the information on OS in the table.
- ▶ Blind hole by additional specification of drilling depth (**HT**)
- ▶ Stepped drilling by two drill holes at the same position of the profile
- ▶ Observe required minimum wall thickness ( $PS_{min}$ ,  $PS_{max}$ )!

**Drilling sequence DIS**

- ▶ Regular sequence of identical drilling (**SN, SD**)
- ▶ Observe required minimum wall thickness ( $SD_{min}$ )!

End finishing	Abbreviation	Parameter
---------------	--------------	-----------

<b>Drill hole</b>	<b>DI PS</b>	Center point of hole $PS_{min} = DM/2 + 3 \text{ mm};$ $PS_{max} = L - (DM/2 + 3 \text{ mm})$
	<b>OS (optional)</b>	Offset starting point Select OS so that the hole does not cut through any slot edges
	<b>DM</b>	Hole diameter DM, see table
	<b>HT (optional)</b>	Depth of drilling. Through-holes made if no information provided. $HT_{max}$ see table

<b>Drilling sequence</b>	<b>DIS PS, OS, DM, HT</b>	As for drill hole DI
--------------------------	---------------------------	----------------------

	<b>SN</b>	Number of finishes $SN_{max} = INT((L - 3 - PS - DM/2) / SD) + 1$
	<b>SD</b>	Distance between adjacent finishes $SD_{min} = DM + 3$

**Admissible drilling diameters and depths (in mm)**

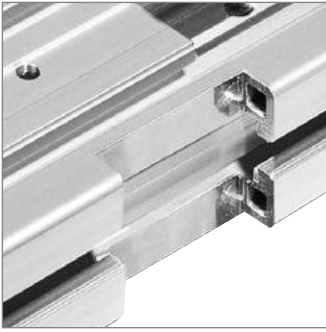
DM	5.8	6.4	7.8	8.0	8.4	9.8	11.0	17.0
$HT_{max}$	40.0	45.0	45.0	45.0	45.0	50.0	60.0	75.0

ATTENTION: If  $HT_{max}$  is not sufficient to drill through the profile, you must order two opposite bores!

**Order key:**

**Material number / length / [slot designation=DI; PS=...; OS=...; DM=...; HT=...]; [...]**

**Material number / length / [slot designation=DIS; PS=...; OS=...; DM=...; HT=...; SN=...; SD=...]; [...]**



## Cross milling

### Cross milling MT

- ▶ Cross milling at any point of the profile (slot designation **PS**) with variable depth (**HT**) and length (**PE - PS**); the width corresponds to the profile width.
- ▶ Observe required minimum wall thickness ( $PS_{min}$ ,  $PS_{max}$ )!

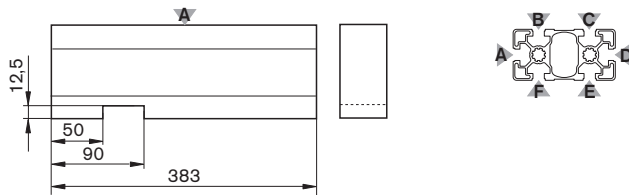
### Cross milling sequence MTS

- ▶ Regular sequence of identical cross milling (**SN**, **SD**)
- ▶ Observe required minimum wall thickness ( $SD_{min}$ )!

### Order examples for profile 45x90, L = 383 mm

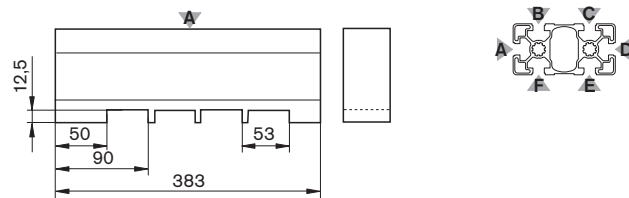
#### MT Cross milling on profile side slot D

3 842 993 661 / 383 / [D=MT; PS=50; HT=12.5; PE=90]



#### MTS Cross milling sequence on profile side slot D

3 842 993 661 / 383 / [D=MTS; PS=50; HT=12.5; PE=90; SN=4; SD=53]



End finishing	Abbreviation	Parameter	
Cross milling	MT	PS	Starting point of milling (Profile cut surface distance – Cross milling leading edge)  $PS_{min} = 8 \text{ mm}$ $PS_{min} = 60 \text{ mm}$ on the underside of the profile
		HT	Depth of milling  $HT_{max} = 5.5 \text{ mm}$ (slot 6 mm) $HT_{max} = 9.0 \text{ mm}$ (slot 8 mm) $HT_{max} = 12.5 \text{ mm}$ (slot 10 mm)
		PE	Starting point of milling (Profile cut surface distance – Cross milling trailing edge)  $PE_{max} = L - 8 \text{ mm}$ $8 \text{ mm} \leq PE - PS \leq 100 \text{ mm}$
Cross milling sequence	MTS	PS, HT, PE	As for cross milling MT
		SN	Number of finishes  $SN_{max} = \text{INT}((L - 8 - PE) / SD) + 1$
		SD	Distance between adjacent finishes  $SD_{min} = (PE - PS) + 10$

### Order key:

Material number / length / [slot designation=MT; PS=...; HT=...; PE=...]; [...]

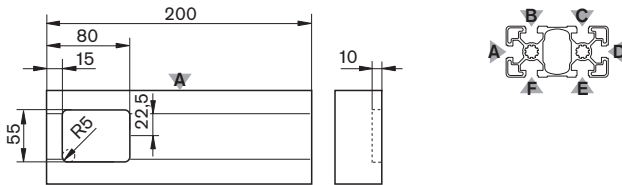
Material number / length / [slot designation=MTS; PS=...; HT=...; PE=...; SN=...; SD=...]; [...]



**Order examples for profile 45x90, L = 200 mm**

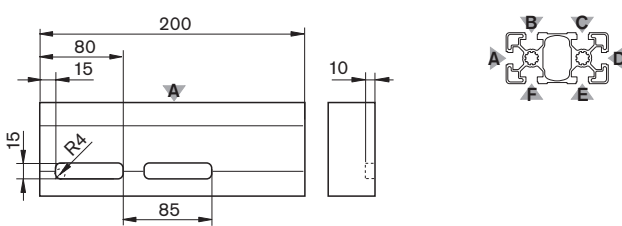
**MI Lengthwise milling**

3 842 993 661 / 200 / [B=MI; PS=15; OS=22.5; DM=55; HT=10; PE=80; RG=5]



**MIS Sequence of lengthwise milling**

3 842 993 661 / 200 / [C=MIS; PS=15; DM=15; HT=10; PE=80; RG=4; SN=2; SD=85]



**Lengthwise milling**

**Lengthwise milling MI**

- ▶ Lengthwise milling at any point of the profile (slot designation **PS, OS**) with variable depth (**HT**), width (**DM**) and length (**PE - PS**). The milling corner radius is defined by the radius of the milling tool (**RG**).
- ▶ Observe required minimum distances ( $PS_{min}$ ,  $PS_{max}$ ,  $DM_{max}$ )!

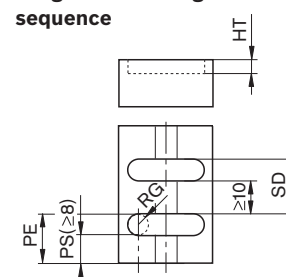
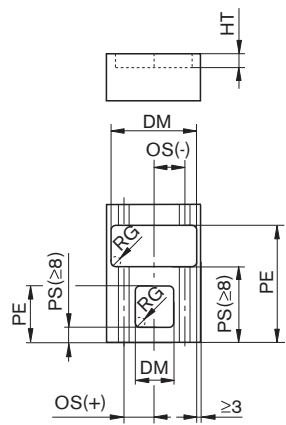
**Lengthwise milling sequence MIS**

- ▶ Regular sequence of identical lengthwise milling (**SN, SD**)
- ▶ Observe required minimum wall thickness! ( $SD_{min}$ )

End finishing	Abbreviation	Parameter
---------------	--------------	-----------

Lengthwise milling	MI	PS	Starting point of milling $PS_{min} = 8\text{ mm}$ $PS_{min} = 60\text{ mm}$ on the underside of the profile (see order tables for guidance)
		OS	Offset starting point (optional)
		DM	Milling width $DM_{min} = 8\text{ mm}$ $DM_{max} = \text{profile width/height} - 6\text{ mm}$ At least 3 mm of profile must remain on both sides
		HT	Depth of milling. $HT_{max} = 5.5\text{ mm}$ (slot 6 mm) $HT_{max} = 9.0\text{ mm}$ (slot 8 mm) $HT_{max} = 12.5\text{ mm}$ (slot 10 mm)
		PE	End point of milling $PE_{max} = L - 8\text{ mm}$ $8\text{ mm} \leq PE - PS \leq 100\text{ mm}$
		RG	Radius of milling geometry RG = 3 mm; 4 mm; 5 mm; 8 mm

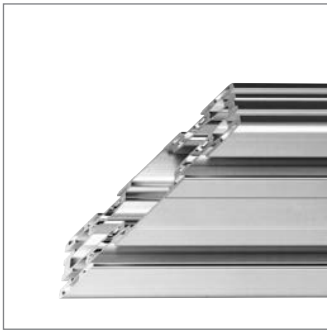
Lengthwise milling sequence	MIS	PS, OS, DM, HT, PE, RG	As for lengthwise milling MI
		SN	Number of finishes $SN_{max} = \text{INT}(L - 8 - PE/SD) + 1$
		SD	Distance between adjacent finishes $SD_{min} = (PE - PS) + 10$



**Order key:**

**Material number / length / [slot designation=MI; PS=...; OS=...; DM=...; HT=...; PE=...; RG=R..]; [...]**

**Material number / length / [slot designation=MIS; PS=...; OS=...; DM=...; HT=...; PE=...; RG=R..; SN=...; SD=...]; [...]**



## Miter cut

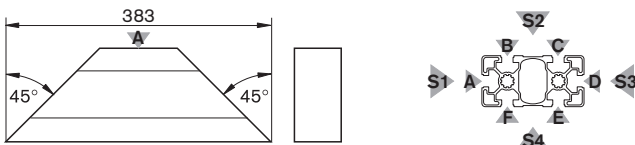
### Miter cut

- ▶ Cutting of profiles at any angle
- ▶ Profile sides are numbered in clockwise direction. S1 is the left profile side according to the illustrated position on the ordered side; the following sides are designated with S2, S3 and S4.
- ▶ Miter cut is started at the indicated side. Possible sides: S1 and S3.
- ▶ Observe the maximum admissible miter bracket and minimum length

### Order examples for profile 45x90, L = 383 mm

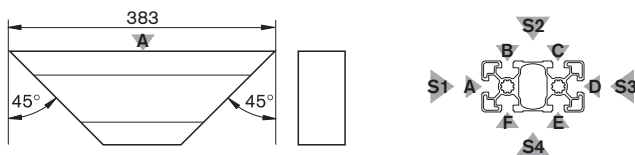
#### MT Miter cut on both sides through side S3 (side with slot D)

3 842 993 661 / 383 / [FS=S3; DG=45]; [BS=S3; DG=45]



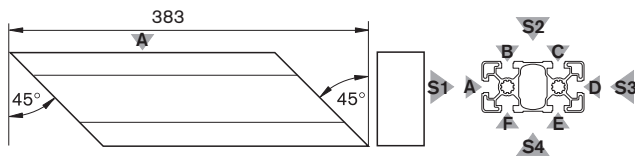
#### Miter cut on both sides through side S1 (side with slot A)

3 842 993 661 / 383 / [FS=S1; DG=45]; [BS=S1; DG=45]

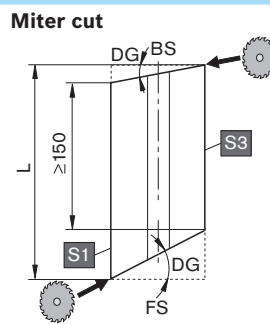


#### Miter cut on through side S1 (FS) and S3 (BS)

3 842 993 661 / 383 / [FS=S1; DG=45]; [BS=S3; DG=45]



End finishing	Abbreviation	Parameter
Miter cut	-	<b>FS</b> Front side: Designation of the profile end the miter cut is to be performed at S1, S3: Profile side on which the miter cut begins FS = S1; FS = S3
		<b>BS</b> Back side: Opposite profile end S1, S3: Profile side on which the miter cut begins BS = S1; BS = S3
		<b>DG</b> Miter bracket DG > 0 The angle is always specified as a positive value; orientation results from FS/BS and the side on which the miter cut begins. Note the maximum permissible miter angle. For a single-sided miter $L_{min}1$ . For a double-sided miter $L_{min}2$ .



### Order key:

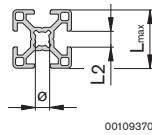
Material number / length / [FS=side; DG=miter angle]; [BS=side; DG=miter angle]

## Technical data for strut profiles

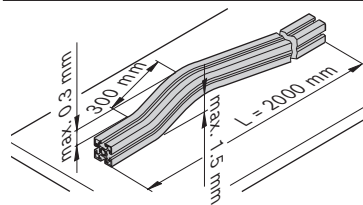
EN AW – Al MgSi		Material designation according to DIN EN 573 for Rexroth strut profiles
EN AW – 6063		Material number according to DIN EN 573
$R_m$	= 245 N/mm <sup>2</sup>	Minimum tensile strength (in direction of pressure)
$R_{p0.2}$	= 195 N/mm <sup>2</sup>	0.2 % proof stress (in direction of pressure)
$A_5$	= 10 %	Ductile yield $A_5$ or $A_{10}$
$A_{10}$	= 10 %	
E	= 70000 N/mm <sup>2</sup>	Modulus of elasticity E
75 HB		Brinell hardness
$\alpha_{(-50 \dots +20 \text{ °C})}$	= 21.8 x 10 <sup>-6</sup> 1/K	Longitudinal expansion coefficient
$\alpha_{(+20 \dots 100 \text{ °C})}$	= 23.4 x 10 <sup>-6</sup> 1/K	
$\mu$	= 0.34	Poisson's ratio
E6/EV1 – 12 μm – 300 HV		Anodizing process – layer thickness – layer hardness

$L_{max}$	11-20	22,5-30	40	45-60
$t$	±0.15	±0.2	+0.6	±0.3
$L_{max}$	80	90	120	160
$t$	+0.8	±0.4	+1.0	+1.6
$L_{max}$	180	270	360	
$t$	±0.6	±1.0	±1.5	
<b>L2</b>	6	8	10	
$t$	+0.3	+0.3	+0.4	
$\emptyset$	5.5	7.3	10	15
$t$	-0.1 +0.2	-0.1 +0.2	±0.15	±0.15

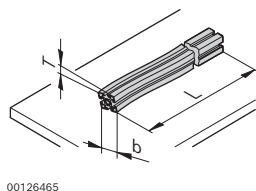
Permitted dimensional tolerance  $t$  (mm) for profiles from different deliveries



Deviation limits and form tolerances according to DIN EN 12020-2  
Rexroth profiles generally fall well within the generally applicable tolerances specified in the standard. They are specifically defined for the individual products.



Longitudinal straightness tolerance of profile



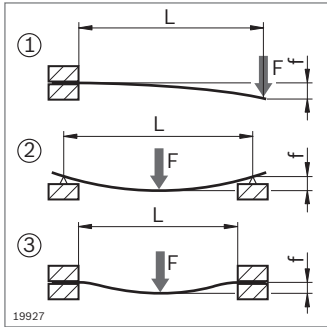
Longitudinal torsional tolerance of profile

Width $b$ in (mm)	Torsional tolerance $T$ for nominal length $L$ in (mm)					
	$L \leq 1000$	$1000 < L \leq 2000$	$2000 < L \leq 3000$	$3000 < L \leq 4000$	$4000 < L \leq 5000$	$5000 < L \leq 6000$
$\leq 75$	1.0	1.2	1.5	1.8	2.0	2.0
75 ... 100	1.0	1.2	1.5	2.0	2.2	2.5
100 ... 125	1.0	1.5	1.8	2.2	2.5	3.0
125 ... 150	1.2	1.5	1.8	2.2	2.5	3.0
150 ... 200	1.5	1.8	2.2	2.6	3.0	3.5
200 ... 350	1.8	2.5	3.0	3.5	4.0	4.5

Resistance table R999002460

The table gives you an overview of the general resistance of Rexroth aluminum profiles in contact with various media.

# Profile deflection



$$f_{①} = \frac{F \times L^3}{3 E \times I \times 10^4}$$

Profile deflection due to force F for static load cases ①②③

$$f_{②} = \frac{F \times L^3}{48 E \times I \times 10^4}$$

$$f_{③} = \frac{F \times L^3}{192 E \times I \times 10^4}$$

$$f_{①} = \frac{m' \times g \times L^4}{8 E \times I \times 10^4}$$

Profile deflection due to the profile's own weight

$$f_{②} = \frac{5 \times m' \times g \times L^4}{384 E \times I \times 10^4}$$

$$f_{③} = \frac{m' \times g \times L^4}{384 E \times I \times 10^4}$$

$$\sigma_{①} = \frac{(m' \times g \times L + F) \times L}{W \times 10^3}$$

Control of max. occurring bending stress  $\sigma_{b \max}$

$$\sigma_{②} = \frac{(m' \times g \times L + F) \times L}{4 W \times 10^3}$$

$$\sigma_{③} = \frac{(m' \times g \times L + F) \times L}{8 W \times 10^3}$$

$$\sigma_{b \max} < \sigma_{b \text{ zul.}}!$$

$S_{F \text{ erf.}}$ : Safety value required to avoid deformation (flow)

$$\sigma_{b \text{ zul.}} = \frac{R_{p0,2}}{S_{F \text{ erf.}}}$$

$\sigma_{b \text{ zul.}}$ : Max. permissible bending stress

f (mm)

W (cm<sup>3</sup>)

F (N)

E = 70000 N/mm<sup>2</sup>

L (mm)

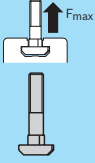
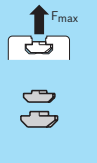
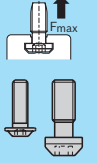
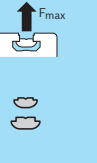
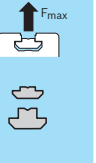





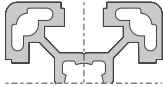
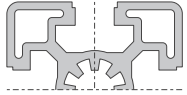
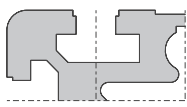
m' (kg/mm); m' = m/1000; m (p. 2-3 ... 2-6)

I (cm<sup>4</sup>)

g = 9.81 m/s<sup>2</sup> ≈ 10 m/s<sup>2</sup>

# Profile slot load-bearing capacity

Static load limit values of slot (beginning of plastic deformation) **for connectors with the largest thread in each case**





							
			T-bolt	T-nut	Central bolt	Swivel-in sliding block	Sliding block
		20x20, 20x20R 10x40 20x40, 20x60 20x40x40	1700 N	1700 N	2000 N	—	3000 N
		30x30, 30x30R 30x30°, 30x45°, 30x60° 11x20, 15x120 30x45, 30x60, 30x60x60 30x90, 30x120	4000 N	4000 N	5000 N	2200 N	6000 N
		90x90SL 40x40L, 40x40L R 40x30°, 40x45°, 40x60° 40x80L, 40x120L, 40x160L 40x80x80L 80x80L 80x120L, 80x160L 45x45L, 45x45L R 45x30°, 45x45°, 45x60° 15x22.5, 15x180, 22.5x45 45x90L, 45x90x90L 45x135L 50x50L, 50x50L R 50x100L, 50x150L 100x100L, 100x200L 60x60L	6000 N 7000 N	6000 N 7000 N	9000 N 10000 N	8000 N 9000 N	11000 N 12000 N
		45x45 60x60 90x90L 22.5x180 45x60 45x90, 45x180 90x180L 90x135L	12000 N	12000 N	15000 N	13000 N	17000 N
		45x270 60x90 90x90 90x180 90x360	18000 N	18000 N	22000 N	18000 N	24000 N





# Load capacity of profile connection







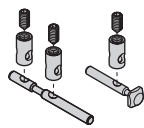
The specified tightening and loading limit values were determined as an example in (dry) trials. Safety factors

and building regulations in accordance with the law and accepted engineering practices must be observed.

## Static load limit values of the connection (beginning of plastic deformation)

	D	Slot			
					
	8	6 / 6	↻ 2.5 Nm	450 N	18 Nm
	11	8 / 8	↻ 12 Nm	500 N	40 Nm
	11	8 / 10	↻ 12 Nm	2000 N	70 Nm
	17	10 / 10	↻ 25 Nm	4000 N	140 Nm
	Quick connector (p. 3-56)	9.8	10 / 10	↻ 6 Nm	800 N

	D	Slot			
					
	8	6 / 6	↻ 2.5 Nm	250 N	6 Nm
	11	8 / 8	↻ 12 Nm	500 N	40 Nm
	11	8 / 10	↻ 12 Nm	500 N	40 Nm
	Quick connector with round head (p. 3-59)	17	10 / 10	↻ 25 Nm	2500 N

	Slot							
								
	30x30	8	↻ 12 Nm	1100 N	35 Nm	24 Nm	650 N	40 Nm
	40x40L	10	↻ 25 Nm	1500 N	110 Nm	100 Nm	1000 N	80 Nm
	45x45L	10	↻ 25 Nm	1500 N	120 Nm	110 Nm	1000 N	95 Nm
	45x45	10	↻ 25 Nm	1500 N	140 Nm	145 Nm	1100 N	180 Nm
	Quick connector, bendable (p. 3-61)	50x50L	10	↻ 25 Nm	1500 N	150 Nm	160 Nm	1100 N

		Slot					
	ø11, L=30	8		6 Nm	2500 N	60 Nm	20 Nm
	ø17, L=40	10		25 Nm	4000 N	180 Nm	40 Nm
	ø17, L=45	10		25 Nm	4000 N	180 Nm	60 Nm
	ø17, L=50	10		25 Nm	4000 N	200 Nm	65 Nm
	ø17, L=60	10		25 Nm	4000 N	200 Nm	80 Nm
	ø17, L=80	10		25 Nm	5000 N	800 Nm	170 Nm
	ø17, L=90	10		25 Nm	5000 N	800 Nm	200 Nm
	ø17, L=100	10		25 Nm	5000 N	1000 Nm	480 Nm
Bolt connector (p. 3-64)	ø28, L=22.5	10		25 Nm	2000 N	-	-

		Slot				
	S6	6		10 Nm	500 N	8 Nm
	S8	8		25 Nm	800 N	43 Nm
	S12	10		35 Nm	1300 N	80 Nm
	Central bolt (p. 3-43)	M12	10		35 Nm	3000 N

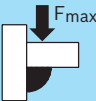
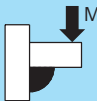
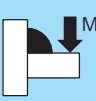

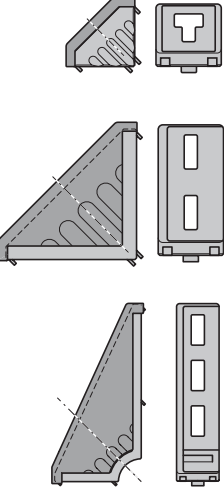



















		Slot					
	20/2	6		10 Nm	18 Nm		
	20/3	6		10 Nm		23 Nm	
	30/2	8		25 Nm	80 Nm		
	30/3	8		25 Nm		85 Nm	
	40/2	10		35 Nm	60 Nm		
	40/3	10		35 Nm		70 Nm	
	45/2		10		35 Nm	45x45L	150 Nm
						45x45	200 Nm
	45/3		10		35 Nm	45x45L	170 Nm
						45x45	240 Nm
Cubic connector (p. 3-45)	50/2	10		35 Nm	120 Nm		
	50/3	10		35 Nm		140 Nm	

		Profile	Slot					
	SV8	30x...	8		6 Nm	1000 N	35 Nm	15 Nm
	SV 10L	45x... L	10		15 Nm	3500 N	110 Nm	30 Nm
	SV 10	40x..., 45x...	10		25 Nm (M8)	3500 N	110 Nm	30 Nm
					5 Nm (M5)			
Tensioning connector (p. 3-13)		60x...	10		15 Nm	3500 N	195 Nm	60 Nm

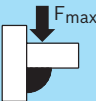
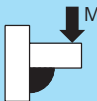
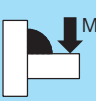
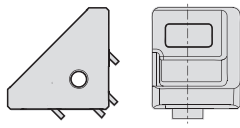




		Slot					
	Slot connector (p. 3-14)	8 / 8		2.5 Nm (M4)	1000 N	35 Nm	15 Nm
				10 Nm (M8)			
				8 / 10			
10 Nm (M8)							
		10 / 10		7 Nm (M6)	3000 N	110 Nm	30 Nm
				12 Nm (M10)			

		Slot				
	Inner bracket (p. 3-15)	8 / 8		12 Nm	2200 N	50 Nm
		10 / 10		15 Nm	2800 N	100 Nm





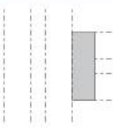
		Slot				
	Inner bracket R (p. 3-16)	6 / 6		3 Nm	600 N	10 Nm
		8 / 8		12 Nm	2500 N	50 Nm
		10 / 10		15 Nm	3000 N	100 Nm

		Slot						
		6	8	10				
	20/20	6		3 Nm	700 N	6 Nm	25 Nm	–
	20/40	6		3 Nm	1400 N	15 Nm	50 Nm	8 Nm
	30/30	8		10 Nm	1250 N	25 Nm	75 Nm	–
	30/60	8		10 Nm	2500 N	100 Nm	170 Nm	25 Nm
	30/120	8		10 Nm	3750 N	100 Nm		47 Nm
	60/60-8	8		10 Nm	5000 N	320 Nm	370 Nm	110 Nm
	60/60-10	10		25 Nm	3000 N	125 Nm	150 Nm	–
	40/40	10		25 Nm	3000 N	55 Nm	145 Nm	35 Nm
	40/80	10		25 Nm	6000 N	180 Nm	400 Nm	60 Nm
	40/160	10		25 Nm	9000 N	250 Nm		60 Nm
	80/80	10		25 Nm	14000 N	500 Nm	1000 Nm	400 Nm
	45/45	10		25 Nm	3000 N	60 Nm	160 Nm	–
	45/90	10		25 Nm	6000 N	180 Nm	400 Nm	60 Nm
	45/180	10		25 Nm	9000 N	250 Nm		65 Nm
	90/90	10		25 Nm	12000 N	370 Nm	800 Nm	200 Nm
	43x42	10		25 Nm	2000 N	–	160 Nm	–
	50/50	10		25 Nm	4000 N	125 Nm	250 Nm	38 Nm
	50/100	10		25 Nm	7500 N	300 Nm	600 Nm	73 Nm
	100/100	10		25 Nm	15000 N	550 Nm	1100 Nm	480 Nm




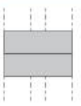
Bracket (p. 3-19)

		Slot					
		6	8	10			
	S 20x20	6		2.5 Nm	700 N	3.6 Nm	25 Nm
	S 30x30	8		8.5 Nm	1250 N	16 Nm	75 Nm
	S 40x40	10		25 Nm	3000 N	36 Nm	160 Nm
	S 45x45	10		25 Nm	3000 N	36 Nm	160 Nm

Bracket S (p. 7-8)



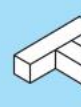






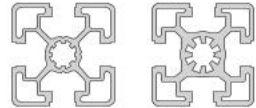


		Slot					
							
	30x30	8	↻ 25 Nm (M8) / 5 Nm (M5)	4000 N	80 Nm		
	40x40	10	↻ 35 Nm (S12) / 10 Nm (M6)	9000 N	150 Nm		
	45x45	10	↻ 35 Nm (S12) / 10 Nm (M6)	9000 N	200 Nm		
	50x50	10	↻ 35 Nm (S12) / 10 Nm (M6)	10000 N	170 Nm		

T-connector (p. 3-53)

		Slot				
						
	30x30	8	↻ 25 Nm (M8) / 5 Nm (M5)		81 Nm	
	40x40	10	↻ 35 Nm (S12) / 10 Nm (M6)		170 Nm	
	45x45	10	↻ 35 Nm (S12) / 10 Nm (M6)		200 Nm	
	50x50	10	↻ 35 Nm (S12) / 10 Nm (M6)		180 Nm	

End connector (p. 3-51)

**Profile connection load capacity with radial compensation (p. 2-94)**

		Slot						
	30x30		S8	8	↻ 25 Nm	600 N	37 Nm	28 Nm
				8 / 8	↻ 12 Nm	600 N	37 Nm	28 Nm
	40x40		M12 S12	10	↻ 30 Nm	1000 N	47 Nm	55 Nm
				10 / 10	↻ 22 Nm	1000 N	47 Nm	55 Nm
	45x45		S12 M12	10	↻ 35 Nm	1200 N	53 Nm	59 Nm
				10 / 10	↻ 25 Nm	1200 N	53 Nm	59 Nm

			Slot		
	M4	6		3 Nm	
	M4	8		3 Nm	
	M5	8		5 Nm	
	M6	8		10 Nm	
	M4	10		3 Nm	
	M5	10		5 Nm	
	M6	10		10 Nm	
	M8	10		25 Nm	

T-nut (p. 3-4)

			Slot		
	M8	10		25 Nm	

Collar screw (p. 3-5)









			Slot		
	M6	8		10 Nm	
	M8	10		25 Nm	

Flange nut,  
T-bolt (p. 3-6)

			Slot		
	M4	6		3 Nm	
	M5	6		5 Nm	
	M4	8		3 Nm	
	M5	8		5 Nm	
	M6	8		10 Nm	
	M8	8		25 Nm	
	M5	10		5 Nm	
	M6	10		10 Nm	
M8	10		25 Nm		

Sliding block (p. 3-7)  
Swivel-in sliding block (p. 3-8)

# Lifting eye bolt load capacity data









	Page	 One cable, vertical	 Two cables, vertical	 Two cables, $\beta$ 0 ... 45	 Two cables, $\beta$ 45 ... 60	 Two cables, asymmetrical	 Three or four cables, $\beta$ 0 ... 45	 Three or four cables, $\beta$ 45 ... 60	 Three or four cables, asymmetrical
Lifting eye bolt M12x40	3-67	750 kg	1500 kg	1000 kg	750 kg	750 kg	1400 kg	1100 kg	750 kg
Lifting eye bolt with plate 45x90	3-68	750 kg	1500 kg	1000 kg	750 kg	750 kg	1500 kg	1100 kg	750 kg
Lifting eye bolt with plate 90x90	3-68	750 kg	1500 kg	1000 kg	750 kg	750 kg	1500 kg	1100 kg	750 kg
Lifting eye bolt with plate 40x80	3-68	750 kg	1500 kg	1000 kg	750 kg	750 kg	1500 kg	1100 kg	750 kg
Lifting eye bolt with plate 80x80	3-68	750 kg	1500 kg	1000 kg	750 kg	750 kg	1500 kg	1100 kg	750 kg

# EcoShape load capacity

The specified tightening and loading limit values were determined as an example in (dry) trials. Safety factors

and building regulations in accordance with the law and accepted engineering practices must be observed.

## Static load limit values of the connection (beginning of plastic deformation)

Page									
2-81	Threaded sleeve D28L, M12	25 Nm	–	–	–	–	2400 N	300 N	–
2-81	90° connector D28L	10 Nm	2500 N	50 Nm	25 Nm	15 Nm	–	–	–
2-81	90° connector D28L, inside	10 Nm	2500 N	30 Nm	20 Nm	–	–	–	–
2-81	Parallel connector D28L	10 Nm	2500 N	35 Nm	16 Nm	–	–	–	–
2-82	45° connector D28L	10 Nm	2500 N	–	–	–	–	–	–
2-82	45° connector D28L, inside	10 Nm	2500 N	–	–	–	–	–	–
2-82	Strut D28L, 45°	10 Nm	+2500 N	200 Nm	–	–	–	–	–
2-82	Cross connector D28L	10 Nm	2500 N	30 Nm	35 Nm	–	–	–	–
2-83	0°-90° connector D28L	10 Nm	–	–	–	–	–	–	–
2-83	D28L corner bracket	10 Nm	–	20 Nm	20 Nm	–	–	–	–
2-83	90° connector R25, inside	10 Nm	–	–	–	–	–	–	–
2-84	Retaining ring D28L	2 Nm	500 N	–	–	–	–	–	–
2-85	Adapter N10/45	5 Nm	3000 N	–	–	–	–	–	–
2-85	Adapter N10/30	5 Nm	800 N	–	–	–	–	–	–
2-86	Adapter mount D28L	–	35 N	–	–	–	–	–	–
2-86	Container mount	1.8 Nm	35 N	–	–	–	–	–	–
2-87	Tube clamp D28L, N10	25 Nm	1800 N	100 Nm	–	–	–	–	–
2-87	Hinge D28L/D28L	10 Nm	300 N	–	–	–	–	–	–
2-87	D28L/- hinge	10 Nm	300 N	–	–	–	–	–	–
2-88	Variofix block Zn	10 Nm	1500 N	–	–	–	–	–	–
2-88	Mounting bracket D28L	–	200 N	–	–	–	–	–	–
2-89	Ring D50	–	–	–	–	–	–	–	200 N



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3 842 146 815	3-36	3 842 515 457	6-15	3 842 522 479	8-13	3 842 524 012	3-5
3 842 146 848	3-36	3 842 515 459	6-15	3 842 522 481	10-30	3 842 524 025	7-5
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3 842 146 920	11-13	3 842 515 547	3-31	3 842 523 093	5-6	3 842 524 061	2-59
3 842 146 972	3-66	3 842 515 863	10-46	3 842 523 094	5-6	3 842 524 064	2-59
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3 842 348 526	3-27	3 842 517 132	3-45, 3-46	3 842 523 254	2-93	3 842 525 740	12-28
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# Notes



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